Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer
Extraction Well EW-OU2-13-180
Construction Completion Report

Former Fort Ord, California

Prepared for:
U.S. Department of the Army
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USACE Contract No. W9123823C0026

Task No. 7.2

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Report Date: **June 2025**

Report Version: **Draft**

Report Approval

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Prime Contractor:	Ahtna Global, LLC
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Acronyms and Abbreviations

µg/L	micrograms per liter
ACL	Aquifer Cleanup Level
Ahtna	Ahtna Global, LLC
amp	ampere
bgs	below ground surface
CCR	Construction Completion Report
COC	chemical of concern
CT	carbon tetrachloride
EW	extraction well
FONR	Fort Ord Natural Reserve
FO-SVA	Fort Ord Salinas Valley Aquitard
GAC	granular activated carbon
gpm	gallons per minute
GWTP	groundwater treatment plant
GWTS	groundwater treatment system
HDPE	high-density polyethylene
HMP	Habitat Management Plan
mg/L	milligrams per liter
OU2	Operable Unit 2
OUCTP	Operable Unit Carbon Tetrachloride Plume
PLC	programmable logic controller
psi	pounds per square inch
PVC	polyvinyl chloride
QAPP	Quality Assurance Project Plan
RAWP	Remedial Action Work Plan
RI	Remedial Investigation
SCADA	supervisory control and data acquisition
SGS	SGS North America, Inc.
USEPA	U.S. Environmental Protection Agency
VFD	variable frequency drive

1.0 Introduction

This Operable Unit Carbon Tetrachloride Plume (OUCTP) Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180 Construction Completion Report (CCR) describes the installation of groundwater extraction well EW-OU2-13-180 and its integration into Operable Unit 2 (OU2) groundwater treatment system (GWTS). This report also describes the results of borehole geophysical logging that was performed as part of the OUCTP Upper 180-Foot Aquifer Remedial Action at former Fort Ord, California (Figure 1). Ahtna Global, LLC (Ahtna) has prepared this report for the U.S. Department of the Army under Contract No. W9123823C0026.

The remedial action work described in this CCR was conducted between June 2024 and January 2025 in accordance with the *Quality Assurance Project Plan, Former Fort Ord, California, Volume I, Appendix A, Final Addendum No. 2, Operable Unit Carbon Tetrachloride Plume Upper 180-Foot Aquifer Extraction Well Installation* (QAPP Addendum No. 2; Ahtna, 2024b). The remedial action utilizes groundwater extraction and aboveground treatment to remediate carbon tetrachloride (CT), which is the chemical of concern (COC) for the OUCTP Upper 180-Foot Aquifer (Table 1). EW-OU2-13-180 replaces extraction well EW-OU2-09-180 (Figure 2 and Figure 3).[1] Operation of EW-OU2-13-180 minimizes further migration of the OUCTP from the Upper 180-Foot Aquifer to the Lower 180-Foot Aquifer and provides contaminant mass reduction in the Upper 180-Foot Aquifer (Figures 4 through 8).

1.1 Site Location and History

A Remedial Investigation (RI) was conducted to define the nature and extent of volatile organic compounds in groundwater from an undocumented release of CT from a former storage area/training facility in the vicinity of Lexington Court in Marina, California and remedial alternatives for contaminated groundwater within the OUCTP were developed as part of the Feasibility Study (FS; MACTEC, 2006). The selected remedy is identified in the *Record of Decision Operable Unit Carbon Tetrachloride Plume, Former Fort Ord California* (Army, 2008). The requirements for implementation of the remedy for the Upper 180-Foot Aquifer within the OUCTP are addressed in the remedial design (Shaw, 2010), which is an appendix to the Remedial Action Work Plan (RAWP; Shaw, 2009). The remedial designs for OUCTP in the A-Aquifer and Lower 180-Foot Aquifer are presented in separate appendices to the RAWP.

The CT plume at the former Fort Ord is believed to result from routine maintenance operations conducted prior to the facility's closure. The plume migrated through the vadose zone beneath the training facility and into the A-Aquifer, the Upper 180-Foot Aquifer, and the Lower 180-Foot Aquifer; CT has not been detected in the 400-Foot Aquifer. Hydraulic communication between the A-Aquifer and the underlying aquifers is limited to those areas west of OUCTP where the Fort Ord-Salinas Valley Aquitard (FO-SVA) clay unit pinches out, or where it was penetrated by wells without adequate sanitary seals. Two such vertical conduits were identified that resulted in the migration of CT from the A-Aquifer to the underlying Upper and Lower 180-Foot Aquifers. All identified vertical conduits have been destroyed (grouted and sealed), eliminating hydraulic communication through the FO-SVA between the A-Aquifer and the underlying aquifers. Groundwater in the Upper 180-Foot Aquifer flows to the

[1] The submersible pump in EW-OU2-09-180 failed on June 28, 2023, which was determined to be the result of a compromised well screen allowing filter pack material to enter the well. Due to low or non-detectable concentrations of CT since installation in 2010, EW-OU2-09-180 was converted to a monitoring well so it could be sampled with passive diffusion bags.

southeast toward the apparent discontinuity in the underlying Intermediate 180-Foot Aquitard where it then recharges the Lower 180-Foot Aquifer. Groundwater in the Lower 180-Foot Aquifer primarily migrates to the east (Army, 2008).

Groundwater extraction well EW-OU2-09-180 was installed in 2010 to extract groundwater contaminated with CT from the Upper 180-Foot Aquifer. EW-OU2-09-180 was connected to the existing groundwater extraction pipeline that conveys water to the OU2 groundwater treatment plant (GWTP). The installation of EW-OU2-09-180 is described in the Final OUCTP Upper 180-Foot Aquifer Remedial Action CCR (Shaw, 2012).

1.2 Site Hydrogeologic Setting

A general description of the hydrogeology surrounding the OUCTP is included in Section 3.0 of the RAWP (Shaw, 2009). The hydrogeology of the overlying A-Aquifer and underlying Lower 180-Foot Aquifer is presented in more detail in Appendix A and Appendix C of the RAWP, respectively. The geologic units directly influencing groundwater flow within the Upper 180-Foot Aquifer include the FO-SVA, the Upper 180-Foot Aquifer, the Intermediate 180-Foot Aquitard, and the Lower 180-Foot Aquifer. Cross sections were constructed to assist in the evaluation of lithology on flow within the OUCTP, specifically between the Upper 180-Foot Aquifer and the Lower 180-Foot Aquifer. The cross-section locations are presented on Figure 6. The cross sections are presented on Figure 7 (Cross Section A-A') and Figure 8 (Cross Section B-B').

1.2.1 FO-SVA

The FO-SVA separates the overlying A-Aquifer from the Upper 180-Foot Aquifer (hydrologically) over the area of the OUCTP (Figure 7 and Figure 8). The FO-SVA is a thick, dense clay unit deposited in a marine environment and contains significant organic content, occasionally in the form of peat lenses. Even though the FO-SVA represents a significant aquitard that can restrict vertical flow from the A-Aquifer, intercommunication between the aquifers is indicated by the presence of CT in the Upper and Lower 180-Foot Aquifers. The CT, which originated in the A-Aquifer, has migrated along with groundwater into the underlying Upper 180-Foot Aquifer as discussed in Section 1.2.2.

1.2.2 Upper 180-Foot Aquifer

The Upper 180-Foot Aquifer underlies the relatively impermeable FO-SVA and represents the upper lithologic sequence of the generalized 180-Foot Aquifer. The upper contact of the Upper 180-Foot Aquifer occurs at depths ranging from approximately 140 to 200 feet below ground surface (bgs), which correspond to elevations of 20 to 180 feet below mean sea level. Depths mostly reflect variations in surface topography. The cross sections (Figure 7 and Figure 8) illustrate the uniform contact surface between the FO-SVA and the Upper 180-Foot Aquifer.

The thickness of the Upper 180-Foot Aquifer ranges from 50 feet near the western extent of cross section A-A' to over 120 feet near the eastern end of cross section A-A' (Figure 7). The variations in thickness of the aquifer are generally the result of variations in the elevation of the underlying Intermediate 180-Foot Aquitard.

The lithology of the Upper 180-Foot Aquifer is relatively uniform across the OUCTP area as depicted in the cross sections. The unit is composed primarily of well-to-poorly graded sand deposited in relatively thick beds with single depositional units comprising a large proportion of the unit's thickness in some

locations. Gravel content increases toward the base of the unit, although gravel stringers are present at shallow depths locally. Silts represent a larger proportion of the section to the southeast of the suspected area of vertical communication through the Intermediate 180-Foot Aquitard (Figure 7), where the thickness of the unit increases to greater than 100 feet.

1.2.3 Intermediate 180-Foot Aquitard

The Intermediate 180-Foot Aquitard underlies the Upper 180-Foot Aquifer and separates it from the Lower 180-Foot Aquifer within the OUCTP area. The contact between the Upper 180-Foot Aquifer and the underlying Intermediate 180-Foot Aquitard occurs at approximately between 70 and 100 feet below mean sea level within the area (Figure 7 and Figure 8). This places the contact approximately between 200 and 290 feet bgs, depending on ground surface elevation.

The Intermediate 180-Foot Aquitard consists of approximately 50 feet of interbedded clay and clayey sand layers, mixed occasionally with coarse gravel. The aquitard hydraulically isolates the Upper and Lower 180-Foot Aquifers, although the unit pinches out or contains more conductive lithologies in the southern portion of the OUCTP area. The pinch-out is suspected to represent an area of vertical communication between the Upper and Lower 180-Foot Aquifers. The OUCTP RI (MACTEC, 2006) concluded that the Intermediate 180-Foot Aquitard pinches out locally and groundwater from the Upper 180-Foot Aquifer flows downward into the Lower 180-Foot Aquifer in these locations. The area where the CT plumes in the Upper 180-Foot Aquifer and the Lower 180-Foot Aquifer intersect (Figure 6) and the cross sections (Figure 7 and Figure 8) support the presence of a zone of vertical communication. The thin layers of the Intermediate 180-Foot Aquitard that are apparent in well MP-BW-42 and well MW-OU2-69-180L (below -70 feet mean sea level) are not present in well MP-BW-49 (Figure 7). The area depicted on Figure 6 represents the bounds of an area of vertical communication that influences (promotes) the vertical migration of groundwater. The lack of continuity of the Intermediate 180-Foot Aquitard is important to vertical groundwater flow and the migration of contaminants.

1.2.4 Lower 180-Foot Aquifer

The Lower 180-Foot Aquifer consists of approximately 200 feet of coarse sand and gravel and, along with the 400-Foot Aquifer, is a significant source of potable water for the former Fort Ord and City of Marina. Remedial actions for the Lower 180-Foot Aquifer are discussed in Appendix C of the RAWP (Shaw, 2009).

1.3 Nature and Extent of Impacted Groundwater

A summary of the conceptual site model, including contaminant transport mechanisms, is presented in QAPP Addendum No. 2 (Ahtna, 2024b). A detailed discussion of the origin, migration, and investigations required to characterize the plumes is presented in the OUCTP RI (MACTEC, 2006) and the *Carbon Tetrachloride Investigation Drilling Letter Report-Westbay Wells, Former Fort Ord, California* (Harding ESE, 2002). A summary of the current distribution of CT within the Upper 180-Foot Aquifer is provided in this subsection.

Changes in CT concentrations in groundwater over time within the Upper 180-Foot Aquifer are shown in Appendix B to the *Operable Unit Carbon Tetrachloride Plume Fourth Quarter 2023 through Third Quarter 2024* report (2024 OUCTP Annual Report; Ahtna, 2025b). 2024 OUCTP Annual Report Figures 19 through 22 also show the extent of the OUCTP in the Upper 180-Foot Aquifer between Fourth Quarter 2023 and

Third Quarter 2024 (Ahtna, 2025b) and show two distinct plumes north and south of EW-OU2-09-180. Operation of EW-OU2-09-180 from 2010 through 2023 decreased the extent of the CT plume in the Upper 180-Foot Aquifer (Figure 23 in the 2024 OUCTP Annual Report).

Migration of CT from the Upper 180-Foot Aquifer into the Lower 180-Foot Aquifer was first observed with low-level detections in well MW-OU2-69-180 as early as June 1999 (2024 OUCTP Annual Report Appendix B, Figure B73). The Upper 180-Foot Aquifer CT plume indicates decreasing CT concentrations or inconclusive trends over time, with no indication of increasing trends (Appendix B Figures B51 through B58; Ahtna, 2025b), which shows that the vertical migration of CT into the Upper 180-Foot Aquifer from the A-Aquifer has been eliminated.

The highest detected concentration of CT in the Upper 180-Foot Aquifer in the 2023-2024 annual reporting period was observed in well MW-OU2-64-180 (3.4 micrograms per liter [µg/L]) in the vicinity of the interpreted area of vertical communication through the Intermediate 180-Foot Aquitard (2024 OUCTP Annual Report, Figure 21 and Figure 24; Ahtna, 2025b).

1.4 Upper 180-Foot Aquifer Remedial Design

A plume capture strategy and remedial design were developed for the Upper 180-Foot Aquifer with considerations made regarding the regulatory basis, the hydrogeologic characteristics, and the nature and extent of impacted groundwater. A summary of the plume capture strategy and the remedial design is provided below.

1.4.1 Plume Capture Strategy

Groundwater monitoring data indicate that the CT Upper 180-Foot Aquifer plume in the OUCTP was migrating southeast toward an area of vertical communication through the Intermediate 180-Foot Aquitard where it migrates downward into the Lower 180-Foot Aquifer. Within the Lower 180-Foot Aquifer, the contaminated groundwater migrates to the east in the direction of three municipal water production wells (FO-29, FO-30, and FO-31). The CT plume in the Upper 180-Foot Aquifer was approximately 3,300 feet from FO-29, the nearest production well (Figure 5 and Figure 6).

The objective of the remedial action within the OUCTP Upper 180-Foot Aquifer is to extract groundwater from the downgradient edge of the CT plume in that aquifer to remove contaminant mass. The remedial action will also capture the contaminated groundwater before it reaches the area of vertical communication through the Intermediate 180-Foot Aquitard to minimize further impact to the Lower 180-Foot Aquifer.

Operation of extraction well EW-OU2-09-180 since 2011 split the CT plume into a northern and southern portion (Ahtna, 2025b), but did not adequately contain the southern CT plume, which is within the area of the discontinuity in the Intermediate 180-Foot Aquitard, whereby CT migrates to the Lower 180-Foot Aquifer. Additionally, CT was never detected above the Aquifer Cleanup Level (ACL) in EW-OU2-09-180 (Appendix B, Figure B51; Ahtna, 2025b).

New extraction well EW-OU2-13-180 was installed approximately 660 feet east of EW-OU2-09-180 and connected to the existing OU2 GWTS (Figure 2 and Figure 3). Groundwater capture modeling was conducted as part of the Remedial Design Addendum to evaluate the proposed location and operating conditions for extraction well EW-OU2-13-180 to optimize capture of the OUCTP in the Upper 180-Foot

Aquifer. Based on the results of the modeling, this new extraction well is expected to capture both the northern and southern CT plumes in the Upper 180-Foot Aquifer and prevent migration of CT into the Lower 180-Foot Aquifer (Ahtna, 2024a).

1.4.2 Remedial Design

The remediation of the Upper 180-Foot Aquifer utilizes groundwater extraction and aboveground treatment to minimize further migration of the OUCTP from the Upper 180-Foot Aquifer to the Lower 180-Foot Aquifer and to provide contaminant mass reduction in the aquifer. The final design and construction of the groundwater extraction and treatment system were dependent on field conditions encountered during extraction well EW-OU2-13-180 installation and testing activities. This extraction well was connected to the existing groundwater extraction pipeline that conveys water to the OU2 GWTP (Figure 2 and Figure 3). At the OU2 GWTP, the groundwater is treated through liquid phase granular activated carbon (GAC) to remove the contaminants before the treated water is reinjected into the subsurface through existing injection wells and infiltration galleries.

The OU2 GWTP is designed and operated to treat groundwater contaminated with volatile organic compounds (Table 1). CT is included as a COC for OU2, so GWTS operation, including process sample analysis, compliance with discharge requirements, and criteria GAC changeout frequency, already includes considerations for the COCs found in the OUCTP Upper 180-Foot Aquifer (Ahtna, 2024c).

The OU2 GWTP was designed to have sufficient capacity to accommodate the additional flow from the new extraction well and future expansions. Adding the extraction well to the existing GWTS resulted in only minor modifications to the system control parameters and balancing the additional extraction flow with the existing extraction and injection flowrates. This balancing of flowrates is typical during the normal operation of the OU2 GWTP.

Contaminated groundwater from the new extraction well is mixed with contaminated groundwater from the OU2 extraction wells in the existing extracted groundwater conveyance pipeline. The mixed groundwater is treated through liquid phase GAC at the OU2 GWTP. Since CT is already a COC for OU2, no additional treatment or monitoring requirements are necessary.

Monitoring will continue to be conducted to support treatment system operations, evaluate treatment system effectiveness, evaluate overall plume remediation, evaluate plume capture, and support site closure. Monitoring includes sampling and analysis at the GWTP, from the extraction wells, and from surrounding existing monitoring wells. Monitoring also includes process measurements and water level measurements to evaluate system operations and plume capture.

The design of EW-OU2-13-180 is based on hydrogeologic modeling, which determined an optimal flowrate of 60 gpm for effective plume capture and containment. The well was designed to be screened within the Upper 180-Foot Aquifer, targeting depths between 150 and 220 feet bgs, with final screen placement adjusted based on field conditions. Construction materials and methods align with previous successful installations in the area. Conveyance piping from EW-OU2-13-180 was tied into the existing conveyance pipeline near EW-OU2-09-180. The installation process included well development, submersible pump installation, and specific capacity testing to refine aquifer parameters and system configuration. Adjustments to the groundwater model may be made based on field data.

2.0 Summary of Field Activities

The remedial action work described in this report included the following activities:

- Extraction Well Construction – Construction included the installation of a single extraction well and the connection of the well to the OU2 GWTS. Also included were the development of the well; installation of groundwater extraction equipment; installation of electrical equipment and controls; and system startup.
- Hydrogeologic Testing – Hydrogeologic testing was performed to evaluate the aquifer response to the groundwater extraction at the new extraction well. Results were used to determine aquifer yields and recharge capabilities and to determine a long-term operating flowrate for the well and to evaluate OUCTP capture.

The following sections describe the above activities in detail and Table 2 provides a chronology of related field activities. Representative photographs of field activities are included in Appendix A.

2.1 Protection of Natural Resources

The remedial action work described in this report was conducted on the former Fort Ord, with the extraction well and conveyance piping constructed within the Fort Ord Natural Reserve (FONR). The FONR is part of five natural reserve sites administered by the University of California and is used for teaching and research within the unique habitats of the sand dunes. Fieldwork within the FONR was coordinated with the University of California, USACE, and the Fort Ord Base Realignment and Closure Office biologist to minimize impact to natural resources and ongoing research projects. The coordination included:

- Scheduling FONR fieldwork to be conducted between June 1 and October 31 to avoid the flowering periods of special-status species.
- Maintaining site security.
- Defining acceptable and unacceptable work areas, access routes, and turnaround and staging locations.
- Ensuring implementation of the conservation measures identified in the Habitat Management Plan (HMP; USACE, 1997) and Programmatic Biological Opinion (USFWS, 2017).

Biological monitoring was conducted according to the HMP (USACE, 1997) and the Programmatic Biological Opinion (USFWS, 2017). A Biological Monitoring Completion Report (DD&A, 2025) was prepared to describe the activities summarized below.

Prior to any intrusive activities within the open areas and FONR, a baseline biological survey was conducted to determine the quantity and specific location of threatened or endangered plants within the remedial action area. The survey data were used to determine the potential impacts to specific populations of threatened or endangered plants at the proposed well and pipeline locations and a habitat checklist was prepared to outline specific avoidance and minimization measures, as required by the HMP and Programmatic Biological Opinion.

During construction, startup, operations, and monitoring activities, areas containing populations of Monterey gilia and Monterey spineflower were identified and potential access routes and staging areas were delineated to maintain personnel and vehicles in designated work areas and limit access to

protected areas and monitoring was conducted by a biologist to ensure mitigation measures were implemented. Matting was placed on the ground for motorized equipment to access the well while minimizing the disturbance of the soil and plants. Some limited vegetation clearance was necessary to access locations and was conducted following standard best management practices to protect the existing oak trees and sensitive species. Limited tree branches were strategically trimmed as necessary to provide access, but no trees were removed. Topsoil from areas with Monterey spineflower that experienced ground disturbance (i.e., trenching for the pipeline) was stockpiled on-site and replaced post-construction. Equipment coming from off-site was dry brushed prior to entering FONR to reduce the potential to spread non-native invasive plant species.

Three years of annual follow-up habitat monitoring will be conducted in the areas of the FONR disturbed during well installation field activities in accordance with the HMP (USACE, 1997) and the Programmatic Biological Opinion (USFWS, 2017). Follow-up surveys will be conducted during the peak blooming period for the species being monitored (Monterey gilia and Monterey spineflower). Each year for the three-year follow-up habitat monitoring period an evaluation report will be prepared detailing updated special-status plant species populations.

2.2 Extraction Well Construction

The remedial system components for the OUCTP within the Upper 180-Foot Aquifer consist of a single extraction well (EW-OU2-13-180) and mechanical equipment (pump, buried piping, instrumentation, and controls) to extract groundwater and convey it to the existing OU2 GWTP. The location of the new well is shown in Figure 2 and Figure 3 and construction details are provided in Table 3. A well permit was obtained from Monterey County prior to well construction activities starting and is included in Appendix B. The following sections provide the details on the extraction well installation and development.

2.2.1 Borehole Drilling and Logging

Extraction well EW-OU2-13-180 was installed within the Upper 180-Foot Aquifer using a truck-mounted mud rotary drill rig. A 12.25-inch diameter pilot boring was drilled and logged in accordance with the Unified Soil Classification System. The pilot boring was drilled to the top of the Intermediate 180-Foot Aquitard, which was represented by a light olive brown silt encountered at approximately 220 feet bgs. Continuous core sampling was conducted to determine aquifer lithology and depth of the Intermediate 180-Foot Aquitard. The final depth of the boring (226 feet bgs) and position of the well screen were determined in the field by the Project Geologist in consultation with the Program Manager. The drilling mud physical properties (filter cake thickness, fluid viscosity, sand content, and fluid density) were monitored during the drilling of the boring to minimize the invasion of drilling mud into the formation and reduce well development requirements. Drilling mud properties were recorded on the borehole log, which is presented in Appendix C. The pilot boring was then reamed to 18 inches in diameter to 223 feet bgs to accommodate well installation.

Soil investigation-derived waste (IDW) was sampled for OU2 COCs as specified in QAPP Addendum No. 2 (Ahtna, 2024b). No COCs were detected (Table 4) and the soil IDW was disposed of at the Ford Ord Landfills per QAPP Addendum No. 2 (Ahtna, 2024b).

2.2.2 Well Installation

Extraction well EW-OU2-13-180 was installed in accordance with QAPP Addendum No. 2 (Ahtna, 2024b).[2] Extraction well construction details are provided in Table 3 and the well borehole log is provided in Appendix C. The borehole log was used in conjunction with boring logs from previous investigations and the geologic cross sections originally published in QAPP Addendum No. 2 (Ahtna, 2024b) to select the well screen interval.

EW-OU2-13-180 was constructed of 10-inch diameter, Schedule 80 polyvinyl chloride (PVC) casing with a 10-inch diameter, 46-foot long, Type 316 stainless steel, wire wrapped well screen (slot size of 0.045 inch). The well screen interval spans from 174 to 220 feet bgs. A two-inch diameter water level sounding piezometer was also installed in the same borehole and screened from 180 to 220 feet bgs. The piezometer was constructed from Schedule 80 PVC casing and PVC screen (slot size of 0.020 inch). Stainless steel centralizers were placed above the top of the well screen and the bentonite seal and approximately every 40 feet of PVC well casing to ensure the well screen is positioned within the center of the borehole. Filter pack consisting of SiLibeads® was placed around the well and piezometer screens and extends 5.5 feet above the top of the well screen and 4.5 feet of fine sand was placed directly above the filter pack. A 5.2-foot bentonite seal was placed directly above the fine sand and the remainder of the annular space was filled with bentonite-cement grout. The well construction was completed on June 30, 2024 and is shown in the well construction diagram provided in Appendix C.

The extraction well surface completion included an underground 8-foot by 6-foot by 4-foot-deep concrete vault to allow for wellhead access and extraction pipe and electrical connections below grade. Vault features include a traffic rated, lockable vault lid constructed of corrosion-resistant aluminum and 36-inch diameter, 18-inch-deep sump, which is grouted to the bottom of the vault. Typical vault surface completion details are included in QAPP Addendum No. 2 (Ahtna, 2024b). Horizontal and vertical control for the well location were established by a California-licensed land surveyor to establish the spatial coordinates and elevation at the top of the well casing and ground surface.

2.2.3 Well Development

Extraction well EW-OU2-13-180 was developed in accordance with QAPP Addendum No. 2 (Ahtna, 2024b). The extraction well development was initially conducted using bailing and surging methods (July 9 through 11, 2024) followed by the use of a submersible pump (July 12, 2024). Well development proceeded as follows:

1. The total depth of the extraction well and the depth-to-water were measured and used to calculate the volume of water in the well casing.
2. Sediment from the bottom of the well was removed using a bailer.
3. The well screen was alternately surged and bailed.
4. The bailing and surging steps were repeated until turbidity was significantly reduced.
5. The total depth of the extraction well was measured again following the bailing and surging process.
6. The extraction well was pumped with water quality parameters (temperature, specific conductance, pH, turbidity) and water level measurements collected at approximately every

[2] Except where noted. Additional information about deviations from QAPP Addendum No. 2 is in Section 3.0.

well volume purged. The extraction well was pumped until water quality parameters had stabilized and turbidity was less than 5 Nephelometric Turbidity Units. Accordingly, 15 well volumes (4,205 gallons) were removed from EW-OU2-13-180.

7. Final total depth and depth-to-water were measured.

During well development with the submersible pump, the maximum groundwater recharge rate was determined to be approximately 88 gpm, which was above the rate of 60 gpm predicted in QAPP Addendum No. 2 (Ahtna, 2024b). Purge water removed from the extraction well during development was containerized and treated as liquid IDW at the OU2 GWTP.

2.3 Groundwater Extraction Equipment Installation

Between September 3 and 27, 2024, wellhead equipment and a pipeline extension to the OU2 GWTS were installed to extract and convey groundwater from the Upper 180-Foot Aquifer from well EW-OU2-13-180.

2.3.1 Mechanical Equipment Installation

The preliminary plume capture model presented in the remedial design indicated an anticipated extraction flowrate of 60 gpm. Based on the field conditions encountered during the well installation and development activities, a submersible pump was specified for the extraction well to pump the groundwater to the surface at the anticipated recovery rate and have sufficient capacity to pump the groundwater to the OU2 GWTP through new and existing conveyance piping with the other OU2 GWTS pumps operating. The Goulds Model 120L20 submersible pump is a 20-horsepower, 460-volt, 3-phase, 60-hertz pump capable of producing up to 120 gpm. The submersible pump was equipped with a PVC shroud and attached to a Schedule 40, Type 304 stainless steel discharge pipe. The pump is regulated by a downhole pressure transducer to minimize cycling. It operates in pump-down mode, meaning the pump runs until the water level in the well drops to a predefined low set point. At the low set point, the pump shuts off and the well is allowed to recover. The pump restarts when the water in the well recovers to a high set point.

The extracted groundwater flowrate is measured and controlled at the wellhead before it is conveyed to the groundwater extraction conveyance piping. A magnetic flowmeter installed at the wellhead measures instantaneous and cumulative flow from the well. The wellhead piping also includes a pressure switch to shut off the pump if a blockage occurs in the conveyance pipeline, resulting in excess pressure in the well pipeline. A gate valve was installed in the wellhead piping to control the extraction flowrate, if needed. A check valve was also installed in the wellhead piping to ensure that untreated water from the main extraction conveyance pipeline does not back up into the extraction well. All of the components at the wellhead were installed in a concrete vault for security and to provide secondary containment in the case of a leak in the process piping. The vault is traffic-rated and includes a lockable lid. The vault also includes a sump and level switch to collect water, notify the operator of a leak in the system piping, and shut off the extraction pump to minimize the release of contaminated groundwater in the event of a leak. Following the check valve, as the piping exits the well vault, the piping transitions from Schedule 80 PVC to double-contained high-density polyethylene (HDPE).

The proposed location for extraction well EW-OU2-13-180 was approximately 700 feet from the existing conveyance piping to the OU2 GWTP from inoperable extraction well EW-OU2-09-180. The route of the new installed pipeline is shown in Figure 2 and Figure 3.

Approximately 700 feet of 6-inch by 10-inch double-contained HDPE pipe was installed to convey groundwater from the extraction well to the existing groundwater extraction piping. The HDPE pipeline is double-contained to prevent releases due to potential leaks in the carrier pipe. The carrier pipe was hydrostatically pressure tested with potable water prior to backfill. The annular space of the secondary contained pipe was pressure tested with air prior to backfill. Welds, fittings, and flanges were left uncovered during pressure testing and visually examined for leakage.

A low point drain and a leak detector station were placed along of the length of the conveyance piping. An existing high point relief valve is located less than 100 feet from the new tie-in location, and a new high point relief valve was not needed. An existing isolation valve is located near extraction well EW-OU2-08-180 to allow for the EW-OU2-13-180 to be isolated from the rest of the OU2 GWTS; therefore, a new isolation valve was not needed.

Power and control wiring conduit was also installed in conduits within the extraction pipeline trench. Typical layout of piping and conduit within trenching is shown in QAPP Addendum No. 2 (Ahtna, 2024b).

2.3.2 Electrical Power and Control Installation

An existing 200-ampere (amp), 3-phase, 480Y/277-volt commercial meter service drop is located north of the intersection of Abrams Road and Bunker Hill Drive and was installed to provide power to extraction wells EW-OU2-07-180 and EW-OU2-08-180, and upgraded to incorporate EW-OU2-09-180. The service drop feeds a Four-Well Power and Control Panel located next to the extraction well EW-OU2-08-180. Power is fed through #4/0 wire between the drop and the panel. The panel provides a secure location for both the 480-volt power distribution and low voltage instrumentation control. The panel contained two circuit breakers/motor starters and a programmable logic controller (PLC). The panel also contained space for two additional circuit breakers/motor starters. The following sections describe how power and control wiring is distributed from the existing Four-Well Power and Control Panel to EW-OU2-13-180.

Electrical Power

Electrical power is distributed from a new circuit breaker installed at the existing 200-amp, 480Y/277-volt power distribution panel (Four-Well Power and Control Panel) to the new extraction well through PVC conduit buried adjacent to the existing and new extraction conveyance pipeline. The wire and conduit were sized based on the extraction well pump size in accordance with industry standards. Pull boxes were spaced along the length of the new conduit.

Power was terminated in the extraction well vault in a NEMA 4X panel with a 600-volt, 3-phase, 30-amp, fused safety/disconnect switch. The switch was connected to a variable frequency drive (VFD) rated for a 3-phase, 460-volt, 20-horsepower submersible pump. The VFD was connected to a hand-off-auto switch and then connected to the downhole extraction pump through the motor power cable. The disconnect and VFD were sized based on the final extraction pump size in accordance with industry standards.

Instrumentation

Instrumentation within the well vault includes a magnetic flow meter with totalizer, pressure switch, pressure sending unit, downhole pressure transducer, and a level switch (for leak detection). The

magnetic flow meter with totalizer was installed at the wellhead to monitor instantaneous flowrate and total gallons extracted from the well.

A digital pressure switch was also installed to monitor the pump pressure and ensure safe operation of the extraction system. The switch is adjustable to provide a digital output to the OU2 GWTS PLC for monitoring and control. The switch has a pressure range to 200 pounds per square inch (psi), with a manufacturer set switch cut off at 85 psi on rising pressure.

A pressure transducer was installed in the piezometer at a depth near the bottom of the submersible pump. This was installed to measure the water level within the extraction well for control of the pump to prevent it from running dry and cavitating. The pressure transducer is welded titanium with a sealed gauge, 0 to 30 psi gauge span, +/-0.25 percent accuracy, with a 4- to 20-milliamp output. Output from the pressure transducer is sent to the OU2 GWTS PLC for monitoring and to control the operation of the pump.

A digital output float switch was installed within the extraction well vault to allow for detection of leaks within the vault and extraction conveyance pipeline that could flood into the vault. A digital output float switch was also installed within the leak detector station to allow for detection of leaks from the primary carrier pipeline into the secondary containment pipeline.

The VFD installed in the extraction well vault is controlled by the PLC to start and stop the submersible pump. The VFD controls a 120-volt circuit connected to the hand-off-auto switch. The VFD can be used to start the pump remotely from the OU2 GWTP and to stop the pump under alarm conditions.

Instrumentation wiring was distributed from the PLC located in the Four-Well Power and Control Panel to the instrumentation in the new extraction well through an electrical PVC conduit buried adjacent to a new extraction conveyance pipeline. The instrumentation conduit was installed separately from the power distribution conduit to minimize interference. Pull boxes were spaced along the length of the new conduit.

Supervisory Control and Data Acquisition/Instrumentation Interface

Information to operate the extraction well pump was locally programmed at the PLC located within the Four-Well Power and Control Panel near EW-OU2-08-180 and integrated into the existing supervisory control and data acquisition (SCADA) control system located at the OU2 GWTP. The effort included the addition of the well to the existing monitoring screens and the verification that new data from EW-OU2-13-180 were received, logged, and properly interpreted.

2.4 System Checkout and Startup

System checkout was conducted between October 30 and November 7, 2024 to ensure proper operation prior to initiating long-term system operations, to troubleshoot any equipment problems, and to determine actual system operating parameters. During this phase, the extraction well was operated to establish flow and measure the impact on the aquifer. The groundwater extraction rate was maximized (based on the operating capacity of installed equipment) as aquifer data were collected to evaluate the range of the extraction capacity. System readings, including flowrates and pressures, and correlating water levels, were recorded periodically as changes were made. The water level in extraction well EW-OU2-13-180 was monitored and recorded using the pressure transducer installed in the well for

pump control. Troubleshooting was conducted as necessary. Start-up of the extraction well included inspections of the mechanical and electrical equipment to ensure proper installation and operation. Aquifer testing was performed after system checkout as described in Section 2.5. Fulltime system startup began on January 21, 2025. The average flowrate after a month of operation in conjunction with the OU2 GWTS under normal operating conditions was 68 gpm.

Mechanical and Electrical Completion Check

Mechanical and electrical completion checks were performed to verify the correct installation of the equipment. During the final mechanical check, a visual inspection of the entire system was conducted against the construction drawings to verify that equipment and pipelines were correctly positioned and properly connected. The inspection also confirmed bolts and fittings were tightened and supports were securely fastened to bear the intended loads. During the electrical check, electrical equipment and wiring were visually checked against construction drawings to ensure proper installation and connections. Wiring was megger tested to ensure the wiring is intact and properly insulated. Instrumentation was calibrated in accordance with the manufacturers' recommendations and tested to verify proper operation.

Following the installation of the control system, tests were performed to assure proper operating conditions. Alarms and automatic shutdowns were tested by forcing a failed condition. The SCADA system was integrated with the signals from the instruments installed within extraction well EW-OU2-13-180 and its associated extraction pipeline.

2.5 Aquifer Testing

Hydrogeologic testing was conducted between November 2024 and January 2025, during the initial stages of continuous operation, to evaluate groundwater recovery and CT plume capture by new extraction well EW-OU2-13-180. Groundwater extracted from EW-OU2-13-180 during testing was discharged into the pipeline to the OU2 GWTP. The aquifer testing of EW-OU2-13-180 was conducted in two phases:

1. Operating alone: EW-OU2-13-180 was the only well operating in the OU2 GWTS Eastern Main – all other extraction wells in the Abrams/Imjin Network, Bunker Hill Network, and GWTP Network were offline.
2. Operating in conjunction with the OU2 GWTS: all extraction well networks were online and operated at flowrates within GWTS capacities.

For each phase, a step-drawdown test and constant-rate test were conducted where the water level/drawdown data were collected from EW-OU2-13-180 and two observation wells (see Section 2.5.1 for detailed procedures). The observation wells selected for data collection were MW-OU2-64-180 (Upper 180-Foot Aquifer) and MW-OU2-66-180 (Lower 180-Foot Aquifer). Data loggers were deployed in the observation wells at least one week before the start of the test for baseline trend water levels to account for on-going regional water level changes. The transducers were installed at a position in each well below the anticipated water level during maximum drawdown and to not exceed the maximum head limitation of the transducer. The schedule of aquifer testing was as follows:

- 11/5/2024 – data loggers deployed
- 11/22/2024 – step-drawdown test operating alone
- 12/4/2024 – constant-rate test operating alone
- 12/9/2024 – step-drawdown test operating in conjunction with the OU2 GWTS
- 12/11/2024 – constant-rate test operating in conjunction with the OU2 GWTS
- 1/8/2025 – constant-rate test operating in conjunction with the OU2 GWTS
- 1/16/2025 – constant-rate test operating in conjunction with the OU2 GWTS
- 1/30/2025 – data loggers retrieved

Due to technical complications with the electrical equipment in the well and the well vault, the constant-rate test for operating in conjunction with the OU2 GWTS was reinitiated three times before the test could be completed.

2.5.1 Procedures for Step-Drawdown and Constant-Rate Test

The step-drawdown test was conducted according to the following methodology:

1. Static water level was measured at EW-OU2-13-180 immediately before operating for the test.
2. Test duration was for 8-12 hours with three or more steps of increasing flowrate with each flowrate maintained for a duration of 2-4 hours (default of 2 hours, extended as needed based on field observations).
3. Flowrates were set and adjusted during the test using the VFD to maintain average variation in flowrate at ±5 percent.
4. Flowrate steps used were: 40 gpm, 60 gpm, and 80 gpm.
5. The water level at EW-OU2-13-180 was continuously measured during the test and post-test recovery period with the pressure transducer installed in the piezometer and was recorded in the SCADA system.
6. The water level at EW-OU2-13-180 was measured with an electric sounder at a maximum of 30-minute intervals and at the end of each step during the test to confirm pressure transducer readings.
7. Sounder and transducer readings were compared intermittently to ensure the drawdown did not cause the pump to cavitate or cause the water level to go below the depth of the transducer.
8. Field data were reviewed to ensure valid data were collected. This included verification that discharge was maintained at a constant rate for each step.
9. EW-OU2-13-180 was allowed to recover for a minimum of 24 hours to the static water level measured in Step 1 before initiating the constant-rate test.

The constant-rate test was conducted according to the following methodology:

1. The constant flowrate for the constant-rate test was selected based on the results of the step-drawdown test.
2. Static water level was measured at EW-OU2-13-180 and the observation wells immediately before operating for the test.
3. EW-OU2-13-180 was operated continuously for at least 24 hours at the flowrate selected in Step 1.

a. Flowrate was set and adjusted during the test using the VFD and ball valve at the wellhead to maintain average variation in flowrate at ±5 percent.
b. Flowrate was measured throughout the duration of the test with the flowmeter installed inline at the wellhead and flow data recorded continuously via the SCADA system.

4. The water level at EW-OU2-13-180 was continuously measured during the test and post-test recovery period with the pressure transducer installed in the piezometer and was recorded in the SCADA system.
5. The water level at EW-OU2-13-180 was measured periodically (during daytime hours) with an electric sounder and pressure transducer during the test to confirm pressure transducer readings. During night hours, the water level was measured with only the pressure transducer and recorded in the SCADA system.
6. The water levels at the observation wells were continuously measured with the in-well data loggers during the test and for a minimum of 24 hours during post-test extraction well recovery to the static water level measured in Step 2.
7. Field data were reviewed to ensure valid data were collected. This included verification that discharge was maintained at a constant rate and the drawdown stabilized and that the in-well data loggers were functional throughout the testing period.

2.5.2 Results of Aquifer Testing

In process of analyzing the data from EW-OU2-13-180 and the observation wells to determine the drawdown, specific capacity, and transmissivity of the aquifer, it was assumed that (1) steady-state conditions were reached, (2) the wells are fully penetrating, and (3) the aquifer is confined and isotropic. The hydrogeologic testing calculation results are presented in the table below.

Hydrogeologic Testing Analysis	Operating Alone	Operating in Conjunction with OU2 GWTS
Stabilized Flowrate (gpm)	71.1	67.2
Stabilized Drawdown – pumping well (ft)	56.7	44.1
Specific Capacity (gpm/ft)	1.3	1.5
Transmissivity (ft^2/min)	2,825	2,046

Notes:
ft: feet
ft^2: cubic foot
gpm: gallons per minute
min: minute

During the step-drawdown test, it was concluded after the first two steps that the well would not be able to produce more than 75 gpm. With approximately 20 feet of head above the pump, the well could potentially produce more than 75 gpm.

Once steady-state conditions were reached at the end of the constant-rate test, the measured flowrate and drawdown of the pumping well were lower during testing in conjunction with the GWTS. During both phases of testing, drawdown was immediately observed in EW-OU2-13-180, but less than one foot of drawdown was observed in the observation wells over the course of testing. The observation wells, MW-OU2-64-180 and MW-OU2-66-180, are approximately 122 and 63 feet away from EW-OU2-13-180,

respectively. Across all testing, the transmissivity of the aquifer was between 2,000 and 3,000 square feet per min, indicating a very high permeability. High permeability was expected to be observed because the aquifer is comprised of primarily sandy soil.

2.6 Sampling and Analysis Results

SGS North America, Inc. (SGS) performed analyses for the groundwater samples collected from EW-OU2-13-180. SGS is accredited through the Department of Defense Environmental Laboratory Accreditation Program. SGS accreditation information is provided in the Groundwater QAPP (Ahtna, 2024c). Groundwater samples were analyzed for a project-specific list of OU2 COCs (Table 1) by U.S. Environmental Protection Agency (USEPA) Laboratory Method 8260 SIM (selected ion monitoring). Dissolved metals analysis was performed with USEPA Laboratory Method 6010D. Anion analysis was performed with USEPA Method 9056A. Laboratory reports are provided in Appendix D.

Baseline groundwater sampling was conducted in two phases as part of the well installation and startup procedure.

1. After installation and development of new extraction well EW-OU2-13-180, passive diffusion bags were deployed on August 13, 2024 at approximately 5-foot intervals in the saturated well screen zone for profiling the water column to determine the zone of highest OU2 COC concentrations. These data were used in combination with borehole log, well development, and specific capacity testing data to determine appropriate permanent submersible pump depth.
2. After installation of the submersible pump and connection to the OU2 GWTS, EW-OU2-13-180 was sampled at the wellhead spigot for OU2 COCs, dissolved metals, and anions. These data will be used as a basis for comparison with future analytical results to evaluate extraction well performance.

For the Phase 1 baseline groundwater samples collected with passive diffusion bags, CT was detected above its ACL of 0.5 µg/L in all of the samples, ranging from 1.0 to 1.3 µg/L. Benzene and chloroform were also detected in all samples, but at estimated concentrations below their respective OU2 ACLs (Table 1 and Table 5).[3] These results indicated that the submersible pump should be placed near the bottom of the well screen and drawdown maximized to the extent possible to capture the OUCTP throughout the screen interval.

Phase 2 baseline sampling was conducted during the aquifer testing on December 11, 2024 by sampling from the spigot at the wellhead in the extraction well vault. Results are presented in Table 5 and summarized below:

- CT was detected at 3.3 µg/L, which is above the ACL of 0.5 µg/L. Chloroform was detected at an estimated concentration of 0.37 µg/L, which is below its OU2 ACL of 2.0 µg/L. Benzene was not detected.
- Dissolved metals (manganese and iron) and anions (nitrate, nitrite, and sulfate) were sampled and analyzed for and water quality parameters were measured to establish the local in situ hydrochemistry of the Upper 180-Foot Aquifer.
    - Dissolved metals were not detected.

[3] Benzene and chloroform are not COCs for OUCTP in the Upper 180-Foot Aquifer.

- Nitrate was detected at 5.9 milligrams per liter (mg/L), which is below the USEPA Maximum Contaminant Level of 10 mg/L and sulfate was detected at 18.6 mg/L, which is below the USEPA Secondary Maximum Contaminant Level of 250 mg/L. Nitrite was not detected. These results are typical for the Upper 180-Foot Aquifer.
- Measured dissolved oxygen, oxidation reduction potential, pH, specific conductance, and temperature levels were typical for Upper 180-Foot Aquifer extraction wells (Ahtna, 2025c). The measured turbidity of 57 nephelometric turbidity units was higher than expected for an Upper 180-Foot Aquifer extraction well; however, water quality parameters, including turbidity, will continue to be measured quarterly to evaluate extraction well performance (Ahtna, 2025c).

Laboratory analysis was performed by Laboratory Data Consultants, Inc. per the Groundwater QAPP (Ahtna, 2024c). The validation summary reports are provided in Appendix D. Data qualifiers may be assigned to the analytical results. The table below provides definitions for data qualifiers. Additional information is provided in the Groundwater QAPP (Ahtna, 2024c).

Summary of Data Qualifiers

Qualifier	Definition
U	The analyte was not detected and was reported as less than the limit of detection or as defined by the customer. The limit of detection has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
N	The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification."
NJ	The analyte has been “tentatively identified” or “presumptively identified” as present and the associated numerical value was the estimated concentration in the sample.
UJ	The analyte was not detected and was reported as less than the limit of detection or as defined by the customer. However, the associated numerical value is approximate.
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. Acceptance or rejection of the data should be decided by the project team (which should include a project chemist), but exclusion of the data is recommended.

Two duplicate samples were collected. Trip blanks and field blanks were also collected.[4,5] Trip blanks and field blanks were analyzed, and no target analytes were detected. No analytical results required additional qualification based on 100 percent Stage 2B and 10 percent Stage 4 data validation review. All data are considered acceptable and suitable for use.

The analytical data collected from well EW-OU2-13-180 are consistent with the current CT data collected for basewide groundwater monitoring in the area of the OUCTP within the Upper 180-Foot Aquifer (Figure 4) and the Lower 180-Foot Aquifer (Figure 5). The OUCTP size and shape have not changed significantly over the past several years, and the area that extraction well EW-OU2-13-180 was installed was expected to have detectable CT concentrations above the ACL of 0.5 µg/L. Operation of EW-OU2-13-180 is currently removing contaminant mass directly and continued extraction from this well is expected to meet the contaminant mass reduction requirements of the remedial action.

Starting in the First Quarter 2025, EW-OU2-13-180 was added to the quarterly groundwater monitoring program for OU2 COCs, according to the latest Groundwater QAPP for long-term remediation monitoring for the OUCTP Upper 180-Foot Aquifer (Ahtna, 2024c).

[4] Trip blanks are laboratory provided sample bottles filled with analyte free water that are not opened but travel with regular field samples.
[5] Field blanks are sample bottles filled with analyte free water from an unused passive diffusion bag during regular field sampling.

3.0 QAPP Addendum No. 2 Deviations

During well installation activities, the following deviations from QAPP Addendum No. 2 (Ahtna, 2024b) occurred.

QAPP Addendum No. 2 Section 9.2.3 – Well Construction Materials

Per Section 9.2.3 Well Seal and Grout, the bentonite-cement grout shall be comprised of bentonite gel and Type I Portland cement. Due to limited availability of Type I Portland cement, Basalite Type II-V Portland cement was used instead. Type II-V Portland cement meets the ASTM C150 standard and provides adequate compressive strength for use as well grout.

QAPP Addendum No. 2 Section 9.2.7 – Electrical Power and Control Installation

Electrical and controls conduit was not installed between the Bunker Hill PLC panel and the tie-in near EW-OU2-09-180. The existing conduit and wires (plus additional new wire) were used along this route to power and control EW-OU2-13-180 because operation of EW-OU2-09-180 ceased. New conduit and wire were installed from the tie-in to EW-OU2-13-180 as described in QAPP Addendum No. 2.

QAPP Addendum No. 2 Section 9.2.8 – Excavation Conveyance Pipeline

A high-point and isolation valve did not need to be installed because the tie-in location and new conveyance pipe did not create a new high-point location. The high-point and isolation valve on the previously existing conveyance pipeline are being used for EW-OU2-13-180 operation.

A licensed surveyor was not available during the backfill of the trench for the new conveyance pipeline to survey the top of pipe for as-built drawings. Ahtna self-performed this task with on-site staff and equipment.

QAPP Addendum No. 2 Figures – Extraction Well EW-OU2-13-180 Location

Extraction well EW-OU2-13-180 was installed within the Upper 180-Foot Aquifer located 225 feet northwest of the location shown in the QAPP Addendum No. 2 figures. The location was moved closer to existing monitoring well MW-OU2-64-180, which is the well defining the southern CT plume in the OUCTP Upper 180-Foot Aquifer (Figure 4), and existing monitoring well MW-OU2-66-180 (Figure 5), the boring log for which indicates the presence of the Intermediate 180-Foot Aquitard, which is absent at multiport well MP-BW-49 (Figure 7). This was to ensure EW-OU2-13-180 was not installed in the discontinuity in the Intermediate 180-Foot Aquitard and would still capture the OUCTP in the Upper 180-Foot Aquifer.

QAPP Addendum No. 2 Table 1 – Extraction Well Materials and Construction

Per Table 1 of QAPP Addendum No. 2, 1.5-inch Schedule 80 PVC was to be used to construct the piezometer installed in the extraction well borehole. During installation, 80 feet of 1.5-inch diameter piezometer casing became entangled in the extraction well centralizers, broke, and fell to the bottom of the borehole. The only replacement casing available from suppliers within a reasonable distance was 2-inch diameter Schedule 80 PVC. The borehole was reamed to clear the 1.5-inch diameter PVC casing and the 2-inch diameter piezometer was installed.

Per Table 1 of QAPP Addendum No. 2, a 40-foot screen was to be installed for extraction well EW-OU2-13-180. During installation, it was determined the four wire-wrapped stainless steel screen sections were 11.5 feet long including the threaded ends, which resulted in a screen interval of 46 feet from 174 to 220 feet bgs.

QAPP Addendum No. 2 Attachment C: Drawings, CU10 – Trench Details

Per Attachment C, Drawing CU10 Trench Detail 1 of QAPP Addendum No. 2, the depth to the top of the groundwater conveyance pipeline shall be minimum of 36 inches with power and controls conduits approximately 1 foot above the pipeline. When excavated, the top of the existing pipeline near EW-OU2-09-180 that EW-OU2-13-180 was required to tie-in to was at 21 inches depth with the power and controls below the pipeline. It was expected that this configuration would have no significant impact on the project. The new pipeline was connected to the existing pipeline and then gradually sloped down to the design depth of 36 inches. Power and controls conduits were connected to pull boxes at the tie-in point, and installed at the design depth past this point.

QAPP Addendum No. 2 Attachment C: Drawings, S17 – Leak Detection Details

Per Attachment C Drawing S17 Leak Detection Details of QAPP Addendum No. 2, the leak detection handhole was to be comprised of a utility box with inset access lid. Due to availability, an alternate access lid was installed, which was attached to the utility box via internally mounted angle brackets and 3-inch x ⅜-inch anchor bolts instead of being inset. The installation contractor provided a submittal for the alternate configuration, which was evaluated by the Program Manager/Senior Engineer, Project Manager, and Quality Control Manager and determined to be acceptable for the intended purpose.

4.0 Conclusions and Recommendations

The construction of extraction well EW-OU2-13-180 was completed and the extraction well was fully integrated with the OU2 GWTS. EW-OU2-13-180 was initially producing approximately 68 gpm for remediation of OUCTP in the Upper 180-Foot Aquifer.

The OU2 GWTP is currently operated in accordance with the Operation and Maintenance Manual Revision 4 (Ahtna, 2022). This manual provides the specific requirements for startup of the OU2 GWTP after major modifications and general guidance for system operation, maintenance, and monitoring. The Operations and Maintenance Manual is being updated in Revision 5 in 2025 to include EW-OU2-13-180 installation, maintenance, and operation details (Ahtna, 2025d).

Monitoring of potential increases in groundwater production in the well will continue to allow for optimizing capture. Ongoing monitoring will include the collection of field data (e.g., extraction flowrates and water level data from surrounding wells) to evaluate actual plume capture and to periodically calibrate the capture model. The option of additional extraction wells in the Upper 180-foot Aquifer will be revaluated if it is determined in the future that actual plume capture is significantly less than estimated by the models presented in QAPP Addendum No. 2 and this could potentially result in significant increases in CT concentrations in the Lower 180-Foot Aquifer.

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[6] At the end of references included in the Fort Ord Document Library are the Record Numbers (e.g., BW-1234). To find the referenced document, this number may be typed into the Online Search tool at: http://www.fortordcleanup.com/documents/search/. Please note the referenced documents were available in the Fort Ord Document Library at the time this document was issued; however, some may have been superseded by more current versions and were subsequently withdrawn. TBD: to be determined.

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Tables

Table 1. COCs in Groundwater and ACLs

Chemical of Concern (COC)	OU2 A-Aquifer and Upper 180-Foot Aquifer ACLs (µg/L)[1]	OUCTP Upper 180-Foot Aquifer ACLs (µg/L)[2]
1,1-Dichloroethane (1,1-DCA)	5.0	-
1,2-Dichloroethane (1,2-DCA)	0.5	-
1,2-Dichloropropane (1,2-DCPA)	1.0	-
Benzene	1.0	-
Carbon tetrachloride (CT)	0.5	0.5
Chloroform	2.0	-
cis-1,2-Dichloroethene (cis-1,2-DCE)	6.0	-
Methylene chloride	5.0	-
Tetrachloroethene (PCE)	3.0	-
Trichloroethene (TCE)	5.0	-
Vinyl Chloride	0.1	-

Notes:
-: not a COC at the specified aquifer
[1] OU2 COCs and ACLs are from the OU2 Record of Decision (Army, 1994) and the OU2 Explanation of Significant Differences (Army, 1995).
[2] OUCTP COCs and ACLs are from the OUCTP Record of Decision (Army, 2007).

Acronyms and Abbreviations:
µg/L: micrograms per liter
ACL: Aquifer Cleanup Level
OU2: Operable Unit 2
OUCTP: Operable Unit Carbon Tetrachloride Plume

Table 2. Chronology of Field Activities

Date	Activity
4/19/2024	Baseline biological survey began
5/31/2024	Baseline biological survey completed
6/10/2024	Borehole geophysical utility clearance conducted
6/12/2024	USA notification issued for drilling and install of EW-OU2-13-180
6/17/2024	Drilling and well installation of EW-OU2-13-180 began
6/30/2024	Drilling and well installation of EW-OU2-13-180 completed
7/8/2024	Well development / specific capacity testing activities began
7/12/2024	Well development / specific capacity testing activities completed
8/26/2024	USA notification issued for trenching and install of pipeline, conduits, and vaults
9/3/2024	Wellhead vault / pipeline installation and connection to OU2 GWTS began
9/27/2024	Wellhead vault / pipeline installation and connection to OU2 GWTS completed
9/30/2024	Electrical tie-in, PLC upgrade, and SCADA connection began
10/10/2024	Wellhead VFD installation
10/18/2024	Electrical tie-in, PLC upgrade, and SCADA connection completed
10/28/2024	Submersible pump and wellhead vault instrumentation installation
10/29/2024	Piezometer development
10/30/2024	System startup, transducer installation began
11/1/2024	Transducer installation completed
11/5/2024	Wellhead top of casing and vault survey conducted
11/7/2024	Electrical tie-in, PLC and SCADA connection completed
11/22/2024	1st step-drawdown test began
11/26/2024	1st step-drawdown test completed
12/4/2024	1st constant-rate pumping test began
12/5/2024	1st constant-rate pumping test completed
12/9/2024	2nd step-drawdown test conducted
12/11/2024	2nd constant-rate pumping test, stopped due to electrical malfunction
1/8/2025	Transducer replaced, retry 2nd constant-rate pumping test, stopped due to VFD malfunction
1/13/2025	Bypass faulty electrical junction to resolve VFD malfunction
1/16/2025	2nd constant-rate pumping test began
1/17/2025	2nd constant-rate pumping test completed
1/21/2025	Full time operations began

Acronyms and Abbreviations:

GWTS: Groundwater Treatment System
OU2: Operable Unit 2
PLC: programmable logic controller
SCADA: supervisory control and data acquisition
USA: Underground Service Alert
VFD: variable frequency drive

Table 3. EW-OU2-13-180 Construction Details

Well Component	EW-OU2-13-180	Piezometer
Constrution Completion Date	6/30/2024	
Development Date	7/12/2024	10/29/2024
Northing	2137459.85	
Easting	5750553.21	
Top of Casing Elevation (ft MSL)	141.78	
Ground Elevation (ft MSL)	144.91	
Total Casing Depth (ft bgs)	223	221
Casing Type	Flush-joint threaded Sch 80 PVC; SS centralizers at 40-ft intervals	Flush-joint threaded Sch 80 PVC
Casing Diameter (in)	10	2
Screen Length (ft)	46	40
Screen Location (ft bgs)	174-220	180-220
Screen Type	Type 316 SS, continuous wire-wrapped	Sch 80 PVC
Screen Slot (in)	0.045	0.020
Sump	Type 304 welded SS, 3-ft blank casing and end cap, 220-223 ft bgs	Sch 80 PVC, 1-ft blank casing and end cap, 220-221 ft bgs
Borehole Size (in)	18	
Borehole Depth (ft bgs)	226 (223 with 18-in and 226 with 12.25-in)	
Filter Pack	SiLibeads®, 168.5-223 ft bgs	
Transition Sand[1]	#60 sand, 164-168.5 ft bgs	
Bentonite Seal	⅜-in pellets, 158.8-164 ft bgs	
Grout Seal	5 lbs bentonite, 94-lbs Type II-V Portland cement, 7 gals clean water, 4.5-158.8 ft bgs	
Surface Completion	8-ft x 6-ft x 4-ft concrete vault with double-hinged aluminum, traffic-rated lid	
Pump Piping Type	2-in diameter Type 304 SS	NA
Pump Type	Goulds 120L20, 20 hp 3-phase 460v	NA
Pump Intake Depth (ft bgs)	215	NA
Average Pump Rate (gpm)	68	NA

Table 3. EW-OU2-13-180 Construction Details

Notes:

[1] Transition sand well sorted with predominant grain size of between 0.42 and 0.074 millimeter.

Survey coordinates in North American Datum of 1983 (NAD83) California Coordinate System Zone 4 and vertical elevation in National Geodetic Vertical Datum of 1929 (NGVD29).

Acronyms and Abbreviations:

bgs: below ground surface
EW: extraction well
ft: feet
gal: gallon
gpm: gallons per minute
hp: horsepower
in: inch
lb: pound
MSL: mean sea level
NA: not applicable
PVC: polyvinyl chloride
Sch: Schedule
SS: stainless steel
v: volt

Table 4. Soil IDW Sample Analytical Results

Sample Location	Analyte: / Units: / Date:	1,1-DCE (µg/kg) Value	1,1-DCE (µg/kg) Qual	CT (µg/kg) Value	CT (µg/kg) Qual	cis-1,2-DCE (µg/kg) Value	cis-1,2-DCE (µg/kg) Qual	trans-1,2-DCE (µg/kg) Value	trans-1,2-DCE (µg/kg) Qual	Methylene Chloride (µg/kg) Value	Methylene Chloride (µg/kg) Qual	PCE (µg/kg) Value	PCE (µg/kg) Qual	TCE (µg/kg) Value	TCE (µg/kg) Qual	Vinyl Chloride (µg/kg) Value	Vinyl Chloride (µg/kg) Qual	Percent Moisture
SOIL BIN CHHP21829	7/15/2024	<2.5	U	<2.5	U	<2.5	U	<2.5	U	<19	U	<2.5	U	<2.5	U	<2.5	U	14.5
SOIL BIN CHHP21457	7/15/2024	<1.9	U	<1.9	U	<1.9	U	<1.9	U	<15	U	<1.9	U	<1.9	U	<1.9	U	17.5

Notes:

Results in gray are not detected concentrations (result reported as < limit of detection [LOD]).

Data qualifiers defined in Section 2.6 Sampling and Analysis Results.

--: sample collected from an extraction well pump spigot, therefore no sample depth is given.

Acronyms and Abbreviations:

µg/kg: micrograms per kilogram

Qual: qualifier

Analyte Names:

1,1-DCE: 1,1-dichloroethene

1,2-DCE: 1,2-dichloroethene

CT: carbon tetrachloride

PCE: tetrachloroethene

TCE: trichloroethene

Table 5. Baseline Groundwater Sample Analytical Results

Sample Information			Operable Unit 2 Chemicals of Concern																			
			1,1-DCA (µg/L)		1,2-DCA (µg/L)		1,2-DCPA (µg/L)		Benzene (µg/L)		CT (µg/L)		Chloroform (µg/L)		cis-1,2-DCE (µg/L)		Methylene Chloride (µg/L)		PCE (µg/L)		TCE (µg/L)		Vinyl Chloride (µg/L)	
Sample Location	Depth (ft btoc)	Analyte: Units: Date:	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual	Value	Qual
EW-OU2-13-180	175	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.14	J	**1.0**		0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	180	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.13	J	**1.0**		0.26	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	185	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.13	J	**1.2**		0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	190	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.13	J	**1.3**		0.25	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	195	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.12	J	**1.3**		0.25	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180*	195	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.12	J	**1.2**		0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	200	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.12	J	**1.3**		0.25	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	205	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.13	J	**1.3**		0.25	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	210	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.15	J	**1.2**		0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	215	8/13/2024	<0.25	U	<0.25	U	<0.25	U	0.19	J	**1.2**		0.24	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180	-	12/11/2024	<0.25	U	<0.25	U	<0.25	U	<0.25	U	**3.2**		0.35	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U
EW-OU2-13-180*	-	12/11/2024	<0.25	U	<0.25	U	<0.25	U	<0.25	U	**3.3**		0.37	J	<0.25	U	<0.50	U	<0.25	U	<0.25	U	<0.10	U

Notes:

Results in **bold** are concentrations above the Aquifer Cleanup Level (ACL).

Results in gray are not detected concentrations (result reported as < limit of detection [LOD]).

Data qualifiers defined in Section 2.6 Sampling and Analysis Results.

Parameters collected with a grab sample from pump spigot analyzed with a YSI DDS Pro instrument

* Duplicate sample

--: sample collected from an extraction well pump spigot, therefore no sample depth is given.

Acronyms and Abbreviations:

µg/L: micrograms per liter
µS/cm: microSiemen per centimeter
°C: degrees Celsius
ft btoc: feet below top of casing
mg/L: milligrams per liter
mV: millivolt
NTU: nephelometric turbidity unit
Qual: qualifier

Analyte Names:

1,1-DCA: 1,1-dichloroethane
1,2-DCA: 1,2-dichloroethane
1,2-DCPA: 1,2-dichloropropane
CT: carbon tetrachloride
cis-1,2-DCE: cis-1,2-dichloroethene
PCE: tetrachloroethene
TCE: trichloroethene

Table 5. Baseline Groundwater Sample Analytical Results

Sample Information			Baseline Metals				Baseline Anions						Water Quality Parameters					
Sample Location	Depth (ft btoc)	Analyte: Units: Date:	Iron (µg/L) Value	Qual	Manganese (µg/L) Value	Qual	Nitrogen, Nitrate (mg/L) Value	Qual	Nitrogen, Nitrite (mg/L) Value	Qual	Sulfate (mg/L) Value	Qual	Dissolved Oxygen (mg/L)	Oxidation Reduction Potential (mV)	pH	Specific Conductance (µS/cm)	Temperature (°C)	Turbidity (NTU)
EW-OU2-13-180	175	8/13/2024																
EW-OU2-13-180	180	8/13/2024																
EW-OU2-13-180	185	8/13/2024																
EW-OU2-13-180	190	8/13/2024																
EW-OU2-13-180	195	8/13/2024																
EW-OU2-13-180*	195	8/13/2024																
EW-OU2-13-180	200	8/13/2024																
EW-OU2-13-180	205	8/13/2024																
EW-OU2-13-180	210	8/13/2024																
EW-OU2-13-180	215	8/13/2024																
EW-OU2-13-180	-	12/11/2024	<50	U	<2.0	U	5.9		<0.050	U	18.6		8.4	15	7.3	512	18	57
EW-OU2-13-180*	-	12/11/2024	<50	U	<2.0	U	5.9		<0.050	U	18.4							

Notes:

Results in **bold** are concentrations above the Aquifer Cleanup Level (ACL).

Results in gray are not detected concentrations (result reported as < limit of detection [LOD]).

Data qualifiers defined in Section 2.6 Sampling and Analysis Results.

Parameters collected with a grab sample from pump spigot analyzed with a YSI DDS Pro instrument

* Duplicate sample

--: sample collected from an extraction well pump spigot, therefore no sample depth is given.

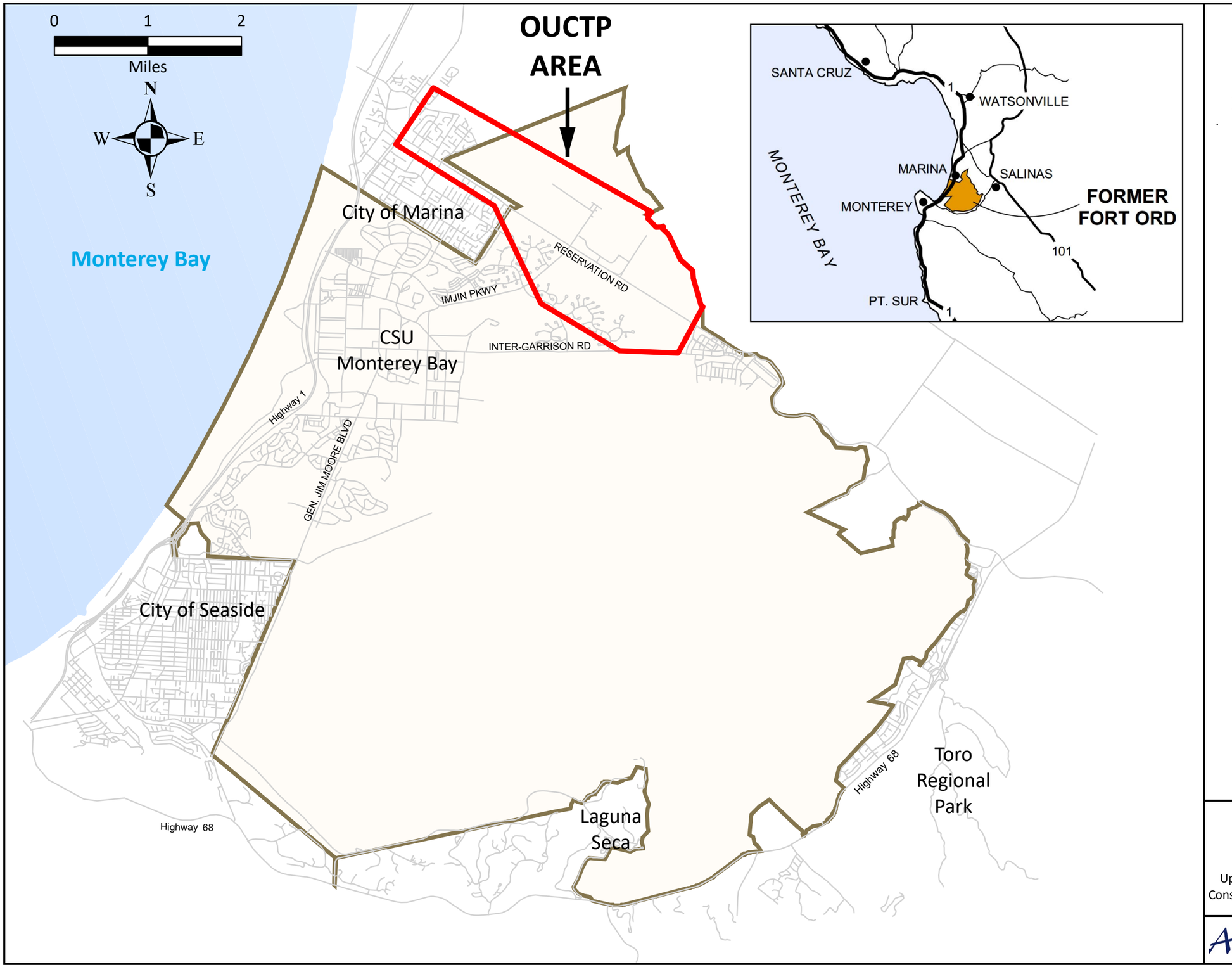
Acronyms and Abbreviations:

µg/L: micrograms per liter
µS/cm: microSiemen per centimeter
°C: degrees Celsius
ft btoc: feet below top of casing
mg/L: milligrams per liter
mV: millivolt
NTU: nephelometric turbidity unit
Qual: qualifier

Analyte Names:

1,1-DCA: 1,1-dichloroethane
1,2-DCA: 1,2-dichloroethane
1,2-DCPA: 1,2-dichloropropane
CT: carbon tetrachloride
cis-1,2-DCE: cis-1,2-dichloroethene
PCE: tetrachloroethene
TCE: trichloroethene

Figures



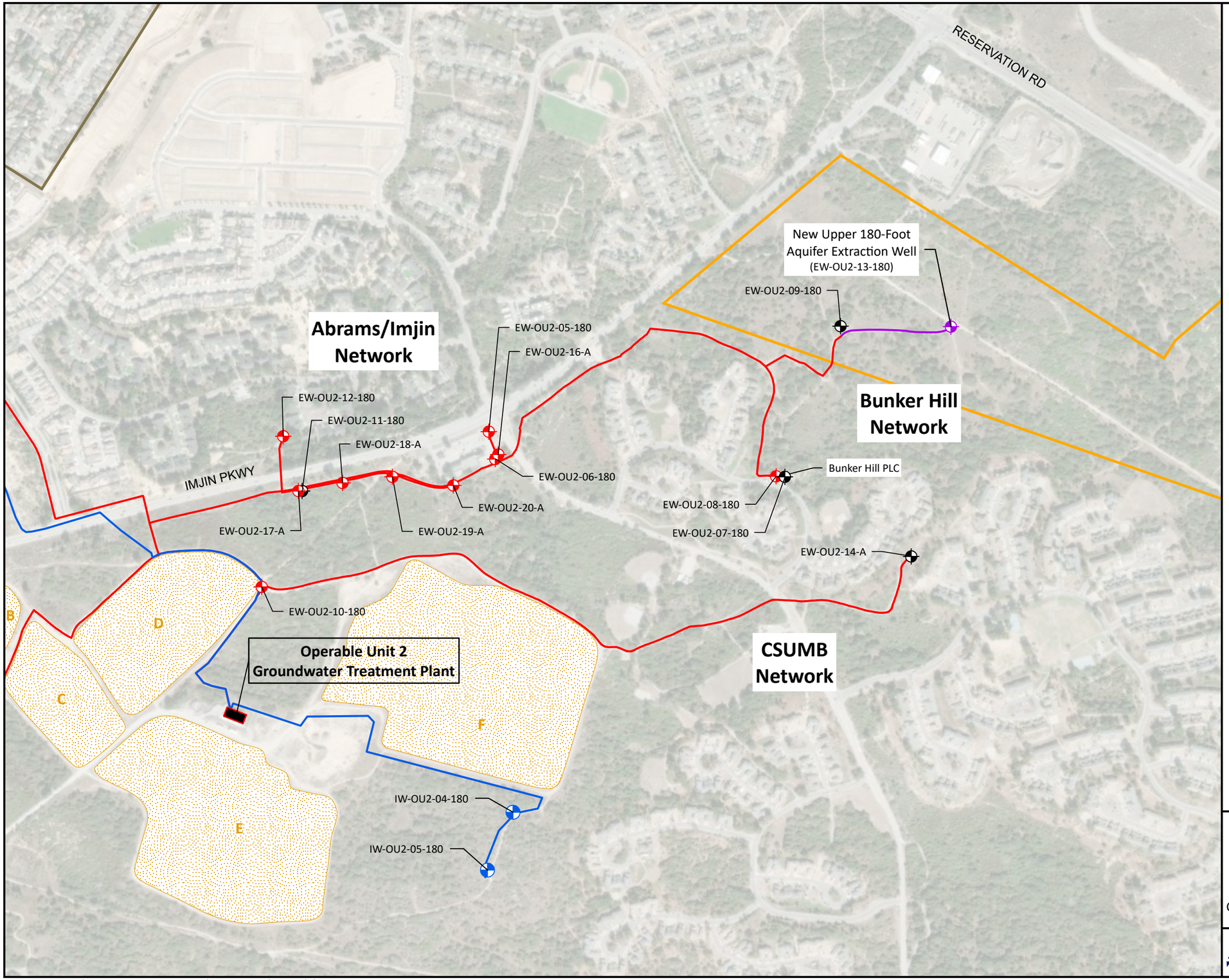
EXPLANATION

- Roads
- Operable Unit Carbon Tetrachloride (OUCTP) Area
- Former Fort Ord boundary

LOCATION MAP

Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

Ahtna	Date: 4/22/2025	Figure: 1



EXPLANATION

- Fort Ord Natural Reserve (South-West)
- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary

Well Type and Operational Status

- New extraction well - EW-OU2-13-180
- Extraction well operated
- Extraction well not operated
- Existing injection well

Groundwater Pipeline Type

- New groundwater collection pipeline
- Existing groundwater collection pipeline
- Treated water injection pipeline

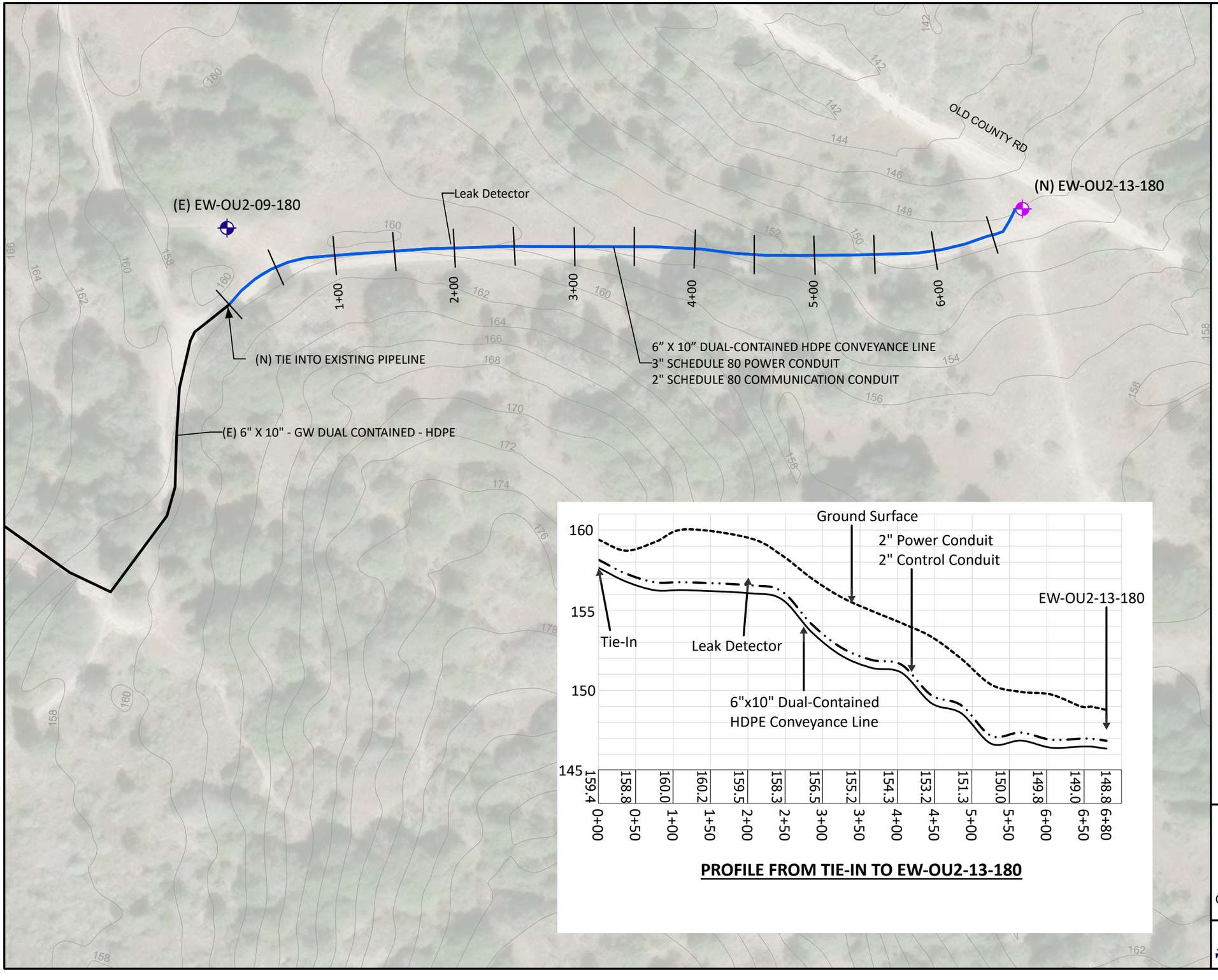
N
W E
S

0 500 1,000
Feet

EW-OU2-13-180 LOCATION AND CONVEYANCE ROUTE
Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

Ahtna | Date: 4/22/2025 | Figure: 2

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Imagery Date: October 27, 2023



PROFILE FROM TIE-IN TO EW-OU2-13-180

EXPLANATION

- Existing Well
- New Extraction Well - EW-OU2-13-180
- New groundwater collection pipeline
- Existing groundwater collection pipeline

Notes:
(E) = Existing
(N) = New
HDPE = High Density Polyethylene

N
W E
S

0 100 200
Horizontal Scale in Feet

EW-OU2-13-180 CONVEYANCE LINE CONSTRUCTION
Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

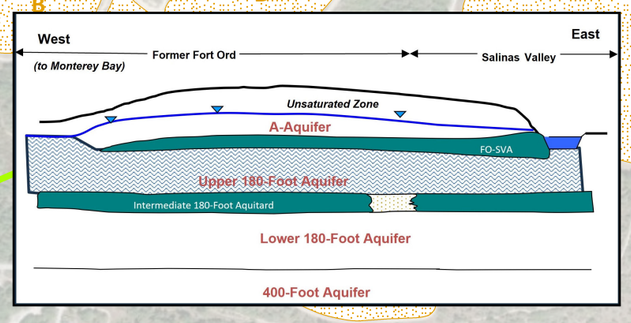
Ahtna	Date: 5/8/2025	Figure: 3

0 1,000 2,000
Feet

N
W E
S

MW-BW-43-180
MP-BW-33-272
MW-BW-21-180
0.27 J
MP-BW-46-170
2.3
0.5
MW-BW-52-180
0.38 J
MW-BW-57-180
MW-OU2-64-180
1.9
EW-OU2-13-180
1.3
EW-OU2-09-180
MW-BW-58-180
MW-OU2-67-180
MW-OU2-70-180

B
D



EXPLANATION

- General groundwater flow direction
- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary

Well Type and COC Detection

- Extraction well with carbon tetrachloride (CT) detection
- Extraction well with no CT detected
- Monitoring well with CT detection
- Monitoring well with no CT detected
- Monitoring well not sampled

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

0.5 — CT plume extent

OUCTP Upper 180-Foot Aquifer Hydraulic Zone

6

MW-OU2-64-180 1.9 — Well ID - Bold When Concentration Exceeds the ACL for CT
CT Concentrations (µg/L) and validation/lab qualifier.

NOTES:

(1) Samples were collected between August 19, 2024 and August 23, 2024.
(2) Contours are based on one interpretation of the data that were available at the time this report was prepared; other interpretations may be possible.
(3) Contours are based on highest value obtained from multiple bags and/or multiple ports were applicable.
(4) Contours near wells not sampled this quarter are inferred from previous analytical data.

CARBON TETRACHLORIDE CONCENTRATIONS
UPPER 180-FOOT AQUIFER
THIRD QUARTER 2024
Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

Ahtna | Date: 4/21/2025 | Figure: 4

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Imagery Date: October 27, 2023

ND Chemical of Concern is non-detect

FO-30 — Well ID
CT: 0.14 J — Concentration in µg/L and validation/lab qualifier. (blue indicates CT)
CT Bold when COC exceeds the ACL.

NOTES:
(1) Groundwater samples were collected between August 19, 2024 and August 23, 2024.
(2) Contour is based on one interpretation of the data that was available at the time this report was prepared; other interpretations may be possible.
(3) Contour based on highest value obtained from multiple bags and/or multiple ports where applicable.
(4)TCE is not a chemical of concern in the OUCTP Lower 180-Foot Aquifer.

AIRFIELD

MP-BW-49-287
CT: ND

MP-BW-49-316
CT: 1.6

MP-BW-49-368
CT: ND

MP-BW-49-400
CT: ND

MW-OU2-66-180
CT: ND

MP-BW-42-345
CT: ND

MP-BW-50-339
CT: 0.7

MP-BW-50-384
CT: ND

MW-BW-04-180
CT: 0.33 J

FO-30
CT: 0.14 J

MP-BW-41-318
CT: ND

MP-BW-41-353
CT: ND

MP-BW-51-405
CT: ND

EW-OU2-07-180
CT: ND

MW-OU2-69-180
CT: 1.2

MW-OU2-78-180
CT: ND

MW-OU2-72-180
CT: 0.16 J

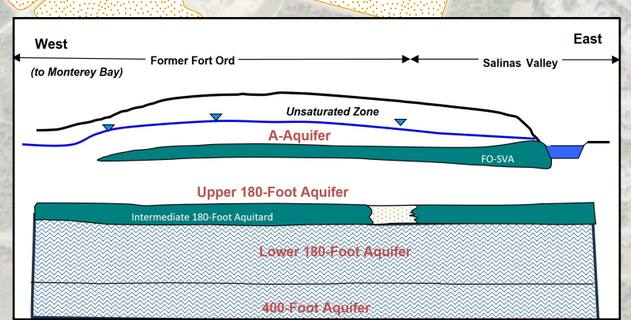
FO-31
CT: ND

FO-29
CT: 0.16 J

MW-BW-59-180
CT: ND

MW-OU2-82-180
CT: ND

D
C
F



0 1,000 2,000
Feet

N
W E
S

EXPLANATION

- General groundwater flow direction
- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary

Monitoring well with CT detection

- Marina Coast Water District active supply well with carbon tetrachloride (CT) detected
- Marina Coast Water District active supply well non-detect (ND) for CT
- Extraction well ND for CT
- Monitoring well with CT detected
- Monitoring well ND for CT
- Monitoring well not sampled

Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

0.5 — CT plume extent

OUCTP Lower 180-Foot Aquifer Hydraulic Zone

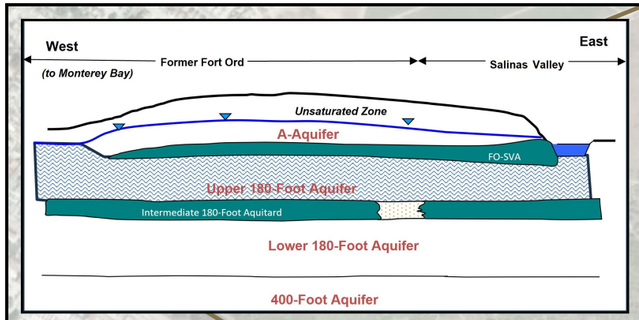
- 7
- 8

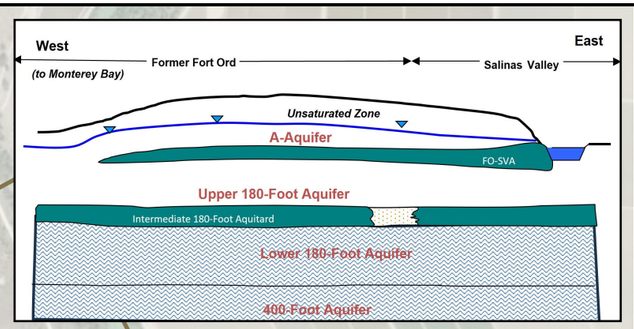
CARBON TETRACHLORIDE CONCENTRATIONS LOWER 180-FOOT/400-FOOT AQUIFERS THIRD QUARTER 2024

Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

Ahtna | Date: 5/8/2025 | Figure: 5

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Imagery Date: October 27, 2023





MW-B-05-180
MP-BW-38
MP-BW-39
MP-BW-40
MW-BW-54-180
AIRFIELD
NEESON RD
MP-BW-37
MP-BW-31
MP-BW-32
MP-BW-30
MW-BW-55-180
MW-BW-26-180
MW-BW-21-180
MW-BW-43-180
MP-BW-33
MP-BW-52
MP-BW-35
B
MP-BW-34
MW-BW-45-180
MP-BW-46
MW-BW-44-180
0.5
0.5
MW-BW-53-180
MW-BW-52-180
MP-BW-42
MW-BW-47-180
A
MW-BW-57-180
MW-BW-51-180
MW-OU2-64-180
MW-OU2-07-400
MW-OU2-66-180
MW-OU2-30-180
MW-BW-58-180
ABRAMS DR
EW-OU2-09-180
MW-BW-04-180
FO-30
MW-BW-50-180
MW-BW-02-180
MW-BW-49-180
MP-BW-50
MW-BW-56-180
MP-BW-49
MP-BW-41
IMJIN PKWY
MP-BW-51
EW-OU2-07-180
A'
MW-OU2-69-180
FO-31
MW-OU2-78-180
FO-29
B'
RESERVATION RD
SCHOONOVER DR
MW-BW-59-180
MW-OU2-72-180
MW-OU2-82-180
MW-OU2-70-180
EW-OU2-13-180
MW-OU2-67-180
N
W
E
S
C
D
E
F
0
1,500
3,000
Feet

EXPLANATION

- Approximate extent of Operable Unit 2 Landfill areas
- Former Fort Ord boundary

Well Type

- EW-OU2-13-180
- Extraction well
- Monitoring well
- Marina Coast active supply well

3Q2024 Chemical of Concern (COC) Aquifer Cleanup Level (ACL) Exceedance Contour in µg/L.

- 0.5 — Upper 180-Foot aquifer carbon tetrachloride (CT) plume extent
- 0.5 — Lower 180-Foot aquifer CT plume extent

Cross Sections

- Cross Section A - A'
- Cross Section B - B'

CARBON TETRACHLORIDE PLUME
and CROSS SECTION MAP
THIRD QUARTER 2024
Operable Unit Carbon Tetrachloride Plume
Upper 180-Foot Aquifer Extraction Well EW-OU2-13-180
Construction Completion Report, Former Fort Ord, California

Ahtna | Date: 4/22/2025 | Figure: 6

Service Layer Credits: Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community
Imagery Date: October 27, 2023

Ahtna

CLIENT U.S. Army Corps of Engineers

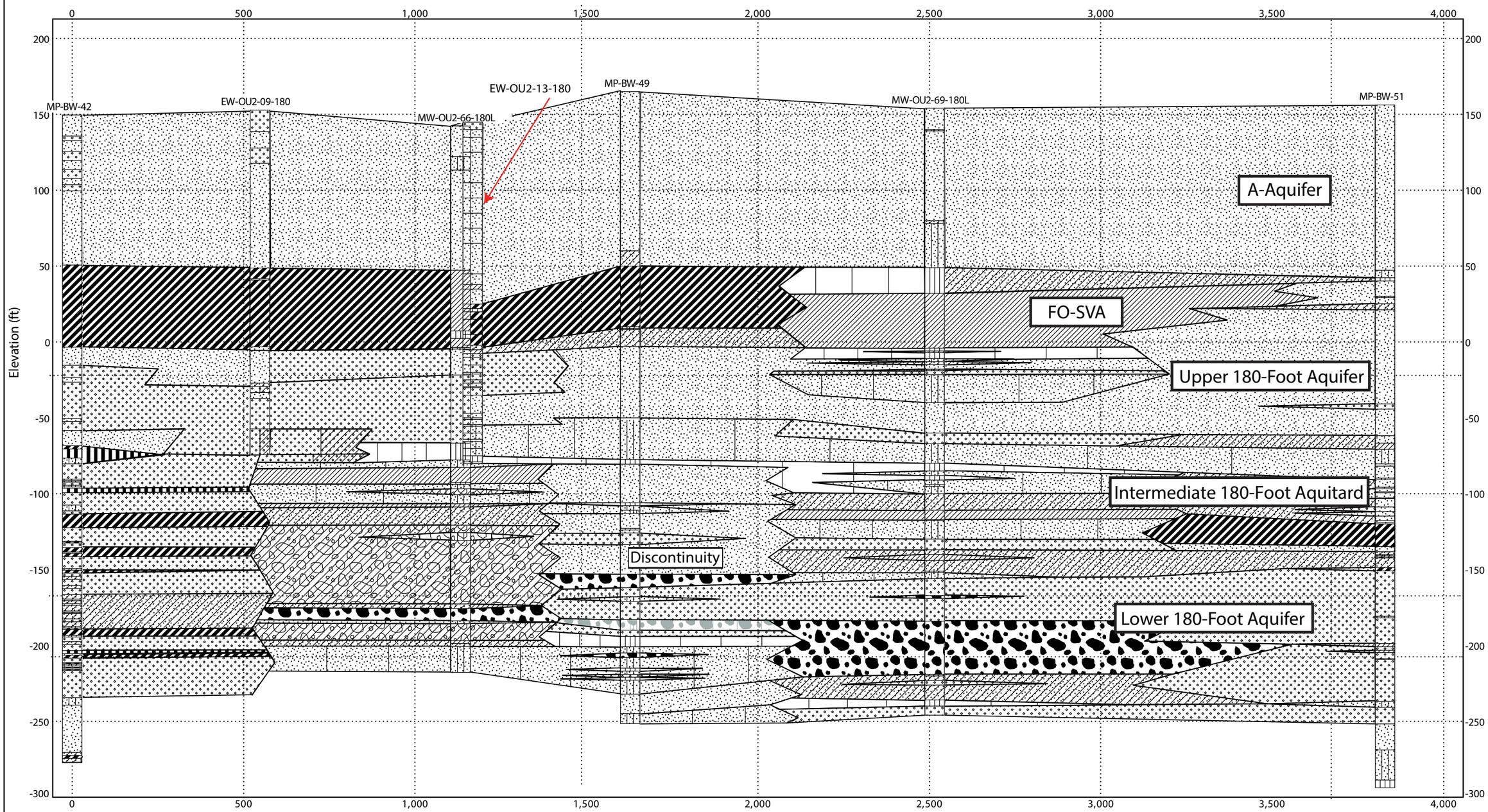
PROJECT NUMBER W9123823C0026

SUBSURFACE DIAGRAM
Figure 7. OUCTP Cross Section A-A'

PROJECT NAME OUCTP Upper 180-Foot Aquifer Extraction Well

PROJECT LOCATION Former Fort Ord, California

- USCS Well-graded Sand
- USCS Poorly-graded Sand
- High Plasticity Clay
- USCS Low Plasticity Clay
- USCS Clayey Sand
- USCS Well-graded Sand with Clay
- USCS Silt
- USCS Silty Sand
- USCS Elastic Silt
- USCS Poorly-graded Sand with Silt
- USCS Well-graded Gravel
- USCS Well-graded Gravel with Silt



Ahtna

CLIENT U.S. Army Corps of Engineers

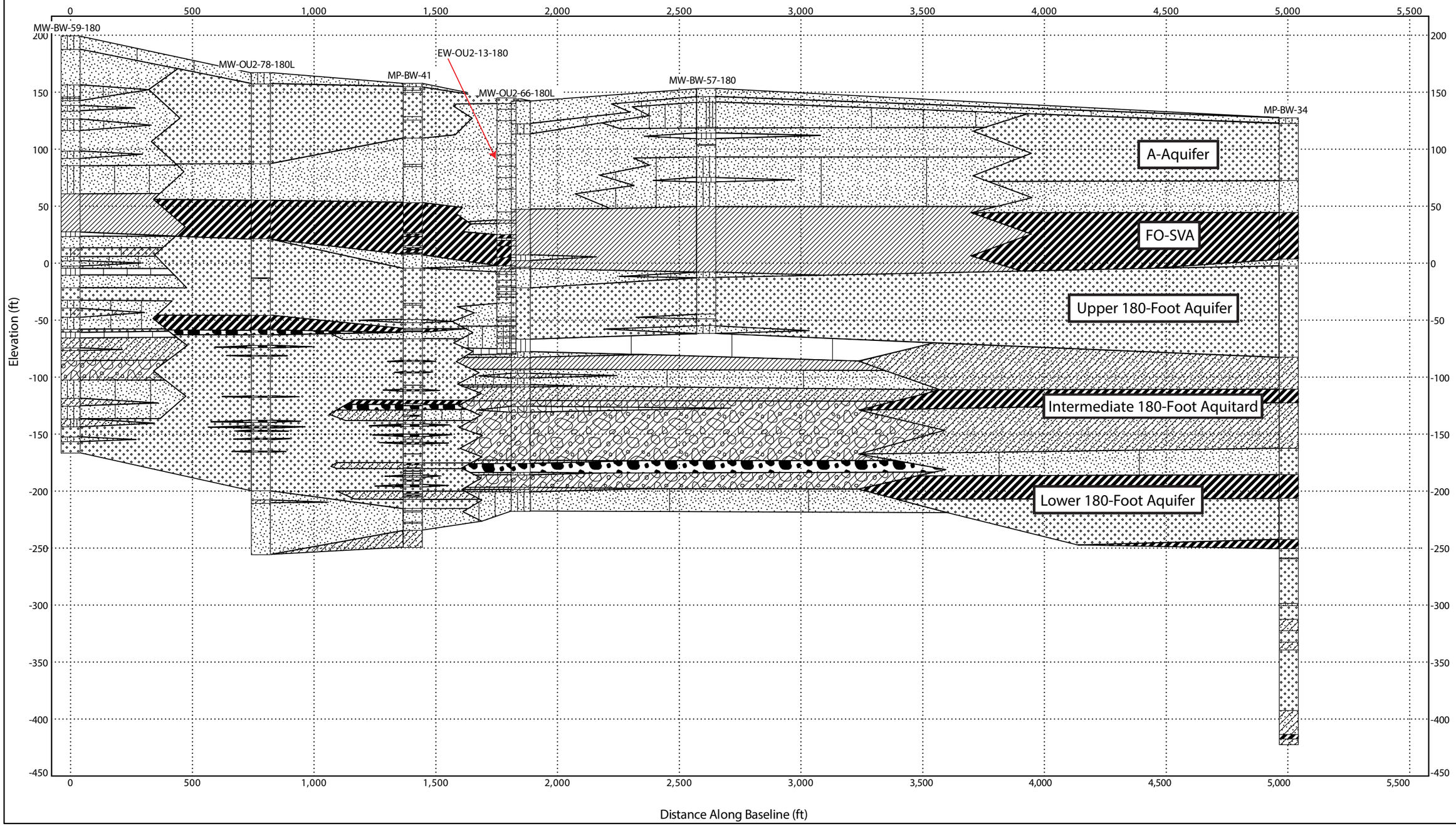
PROJECT NUMBER W9123823C0026

SUBSURFACE DIAGRAM
Figure 8. OUCTP Cross Section B-B'

PROJECT NAME OUCTP Upper 180-Foot Aquifer Extraction Well

PROJECT LOCATION Former Fort Ord, California

USCS Well-graded Sand
USCS Poorly-graded Sand
USCS Low Plasticity Clay
USCS High Plasticity Clay
USCS Silt
USCS Clayey Sand
USCS Silty Sand
USCS Well-graded Gravel
USCS Clayey Gravel
USCS Poorly-graded Sand with Silt
USCS Well-graded Sand with Clay
USCS Clayey Sand



Appendices

Appendix A

Photo Log of Construction Activities

Photo 1: 6/18/24: Piperia onsite.

Photo 2: 6/18/24: Drill bit and auger on left. Conductor casing on right was not used.

Photo 3: 6/18/24: Drilling site. Stakes delineating a spineflower population for avoidance.

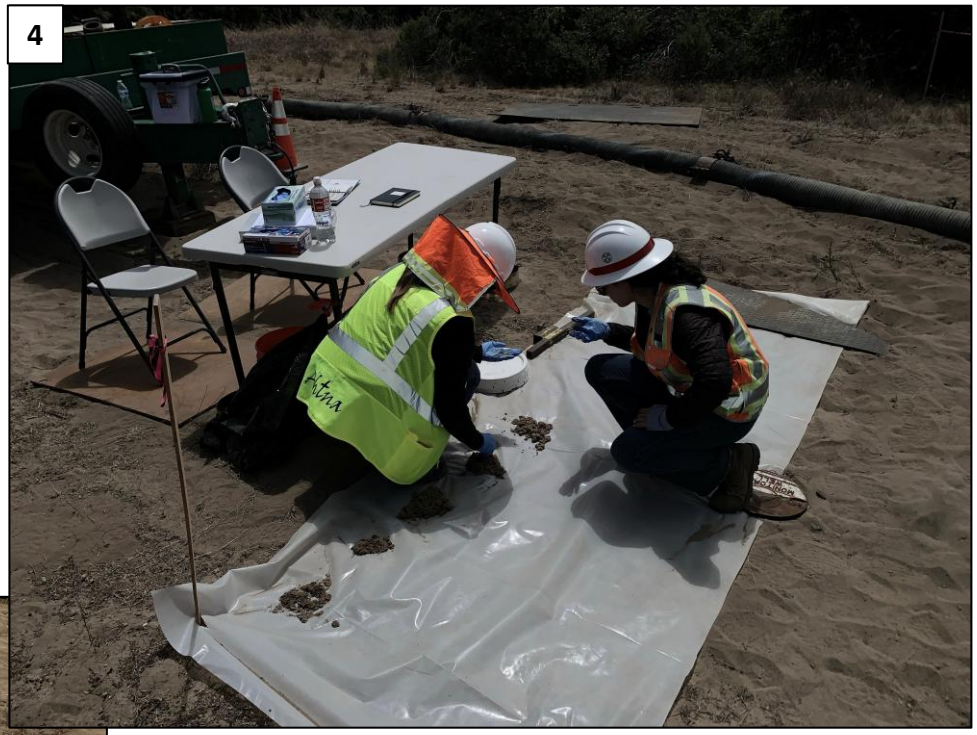


Photo 4-5: 6/19/24: Soil logging vadose zone and A-Aquifer.

Photo 6: 6/20/24: Soil logging of the Fort Ord - Salinas Valley Aquitard.

Photo 7: 6/20/24: Installing drill rod.

Photo 8-9: 6/21/24: Soil logging Upper 180-Foot Aquifer.

Photo 10: 6/22/24: Installing drill rod.

Photo 11: 6/23/24: Water truck filling up with potable water at Sites 2/12 GWTP.

12

Photo 12: 6/24/24: Drilling site inside the Fort Ord Natural Reserve (FONR).

Photo 13: 6/24/24: IDW management.

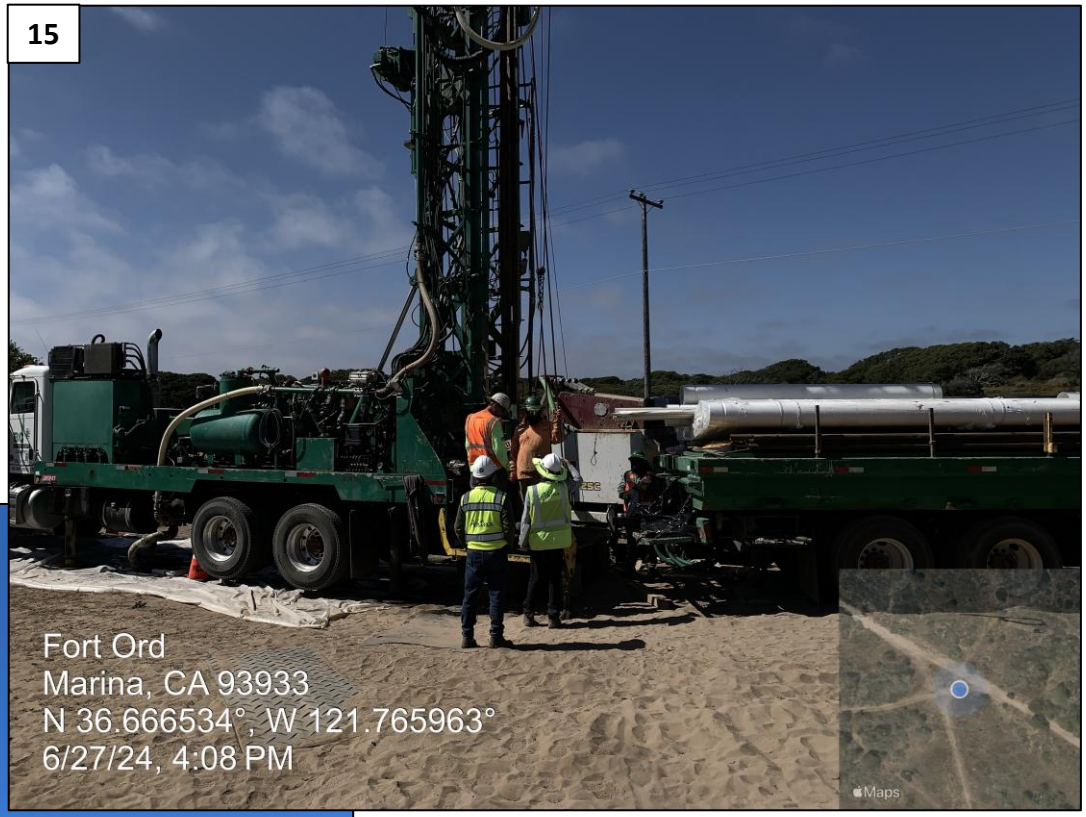


Photo 15: 6/27/24: Drilling site installing well.

Photo 14: 6/26/24: Drilling site inside the FONR.

Photo 16: 6/28/24: Installing well screen.

Photo 17: 6/29/24: Installing SiLibead® filter pack.

Photos 18-19: 6/30/24: Mixing grout.

Photo 20: 6/30/24: Well install complete.

Photo 21: 7/7/24: Drilling crew offsite.

Photo 1: 7/8/24: Water IDW tank delivered onsite.

Photo 2: 7/11/24: Development submersible pump setup on EW-OU2-13-180.

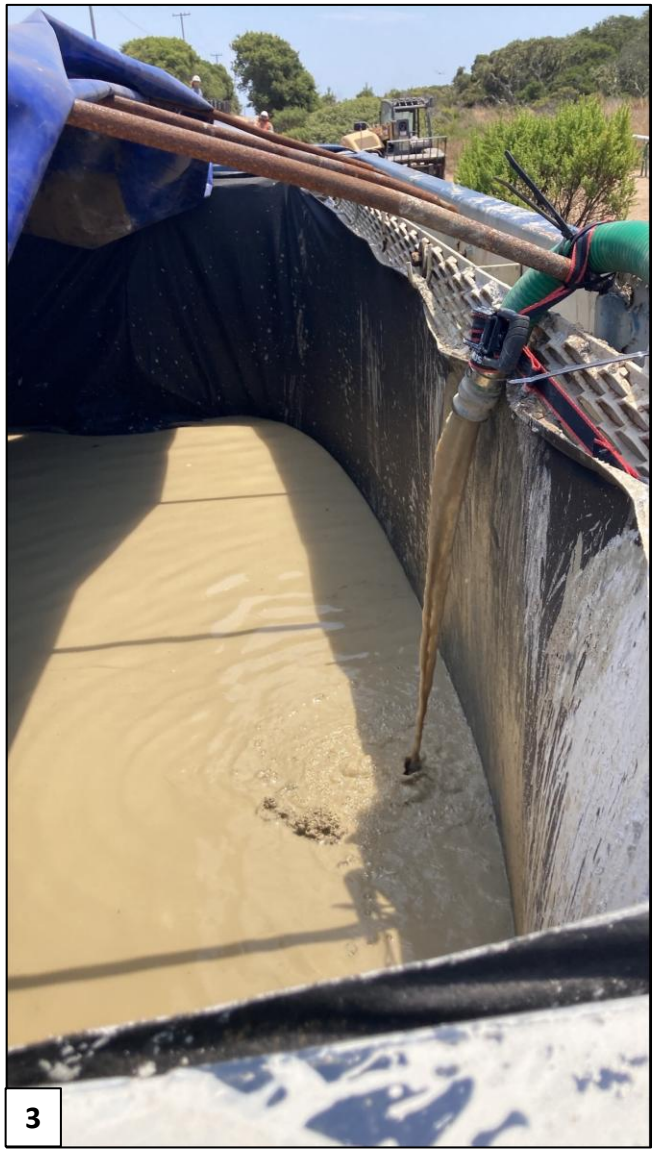


Photo 3: 7/12/24: Development water.

Photo 4: 7/12/24: Well site after development crew demobilized.

Photo 5: 7/17/24: Vac truck onsite to remove IDW water and dispose at OU2 GWTP.

Photo 6-7: 10/29/24: Piezometer development.

Photo 1: 9/4/24: Staging equipment.

Photo 2: 9/5/24: Excavating for the new EW-OU2-13-80 well vault.

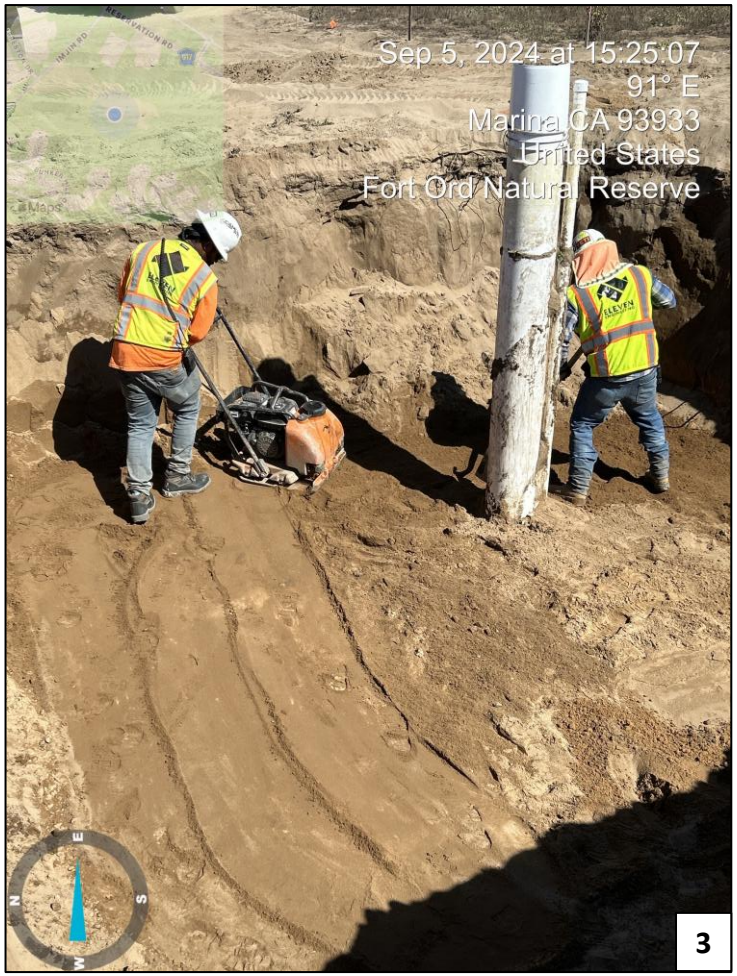


Photo 3: 9/5/24: Compacting bottom of excexcavation for the new EW-OU2-13-180 well vault.

Photo 4: 9/6/24: Installing geotextile fabric and aggregate base below the new EW-OU2-13-80 well vault.

Photo 5-6: 9/6/24: Placement and backfill of the new EW-OU2-13-180 well vault.

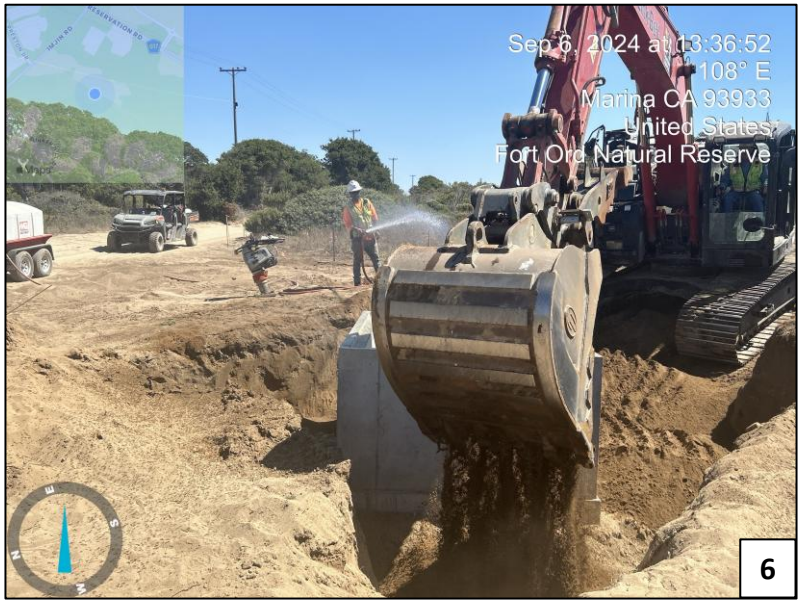


Photo 7: 9/9/24: EW-OU2-13-80 well vault installed.

Photo 8-10: 9/9/24: Laying out and welding 4”x6” double-contained HDPE groundwater conveyance pipe.

Photo 11: 9/9/24: Trenching for new conduit and groundwater conveyance pipe from EW-OU2-13-180.

Photo 12: 9/9/24: Trenching for new conduit and conveyance from EW-OU2-13-180.

Photo 13: 9/10/24: Trenching for new conduit and groundwater conveyance pipe from EW-OU2-13-180.

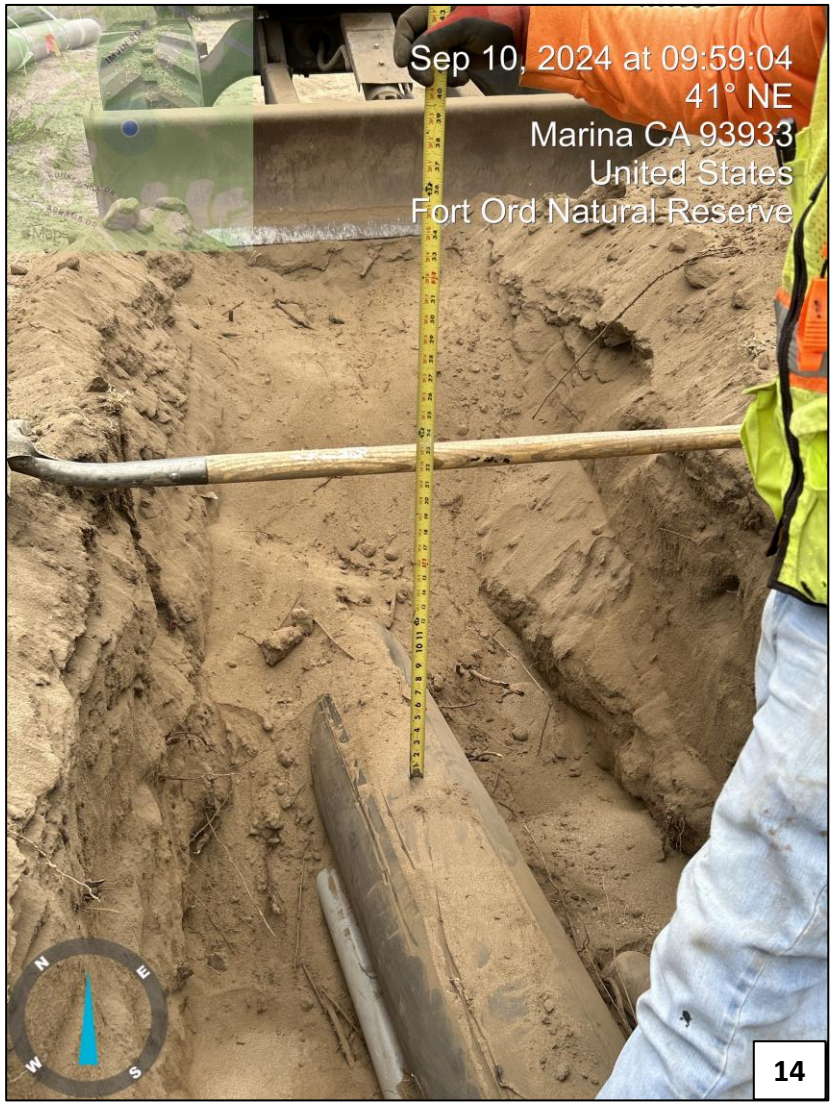
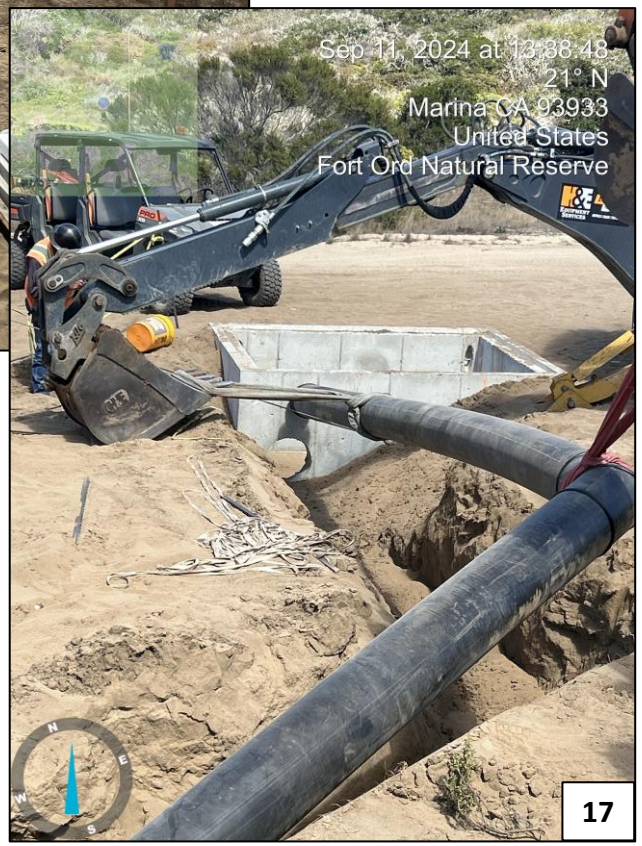


Photo 14: 9/10/24: Existing conduit and groundwater conveyance pipe at tie-in point uncovered 22 inches below existing grade.

Photo 15-17: 9/11/24: Installing HDPE groundwater conveyance pipe at EW-OU2-13-180 vault.

15

16



17

Photo 18: 9/11/24: Installing HDPE groundwater conveyance pipe in trench.

Photo 19: 9/12/24: Leak detector pipe installed on HDPE groundwater conveyance pipe secondary containment pipe.

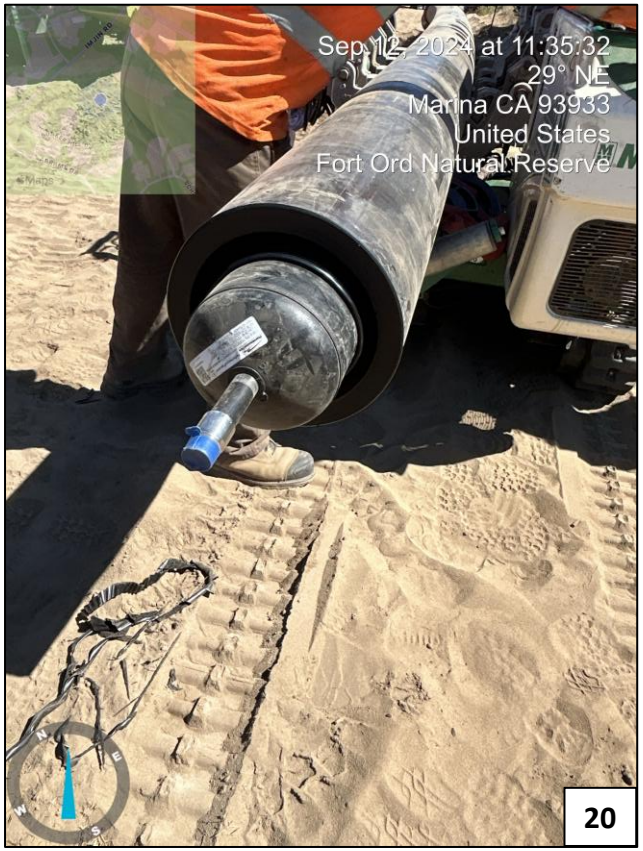


Photo 20-21: 9/12/24: Pressure testing HDPE groundwater conveyance pipe primary carrier pipe.

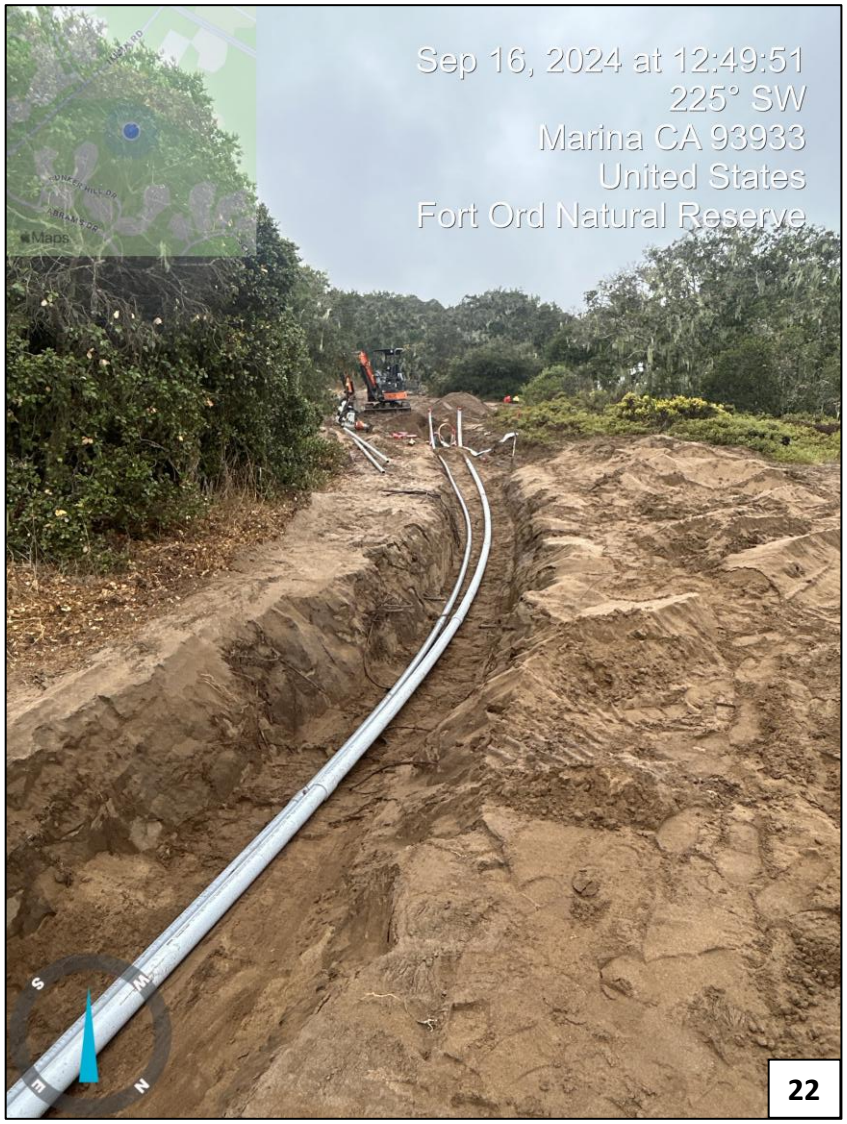


Photo 22: 9/16/24: Installing PVC electrical and communications conduits.

Photo 23: 9/16/24: GPS survey of top of HDPE groundwater conveyance pipe.

Photo 24: 9/16/24: Install warning marker tape on top of conduits and groundwater conveyance pipe

Photo 25: 9/16/24: Mechanical compaction of trench backfill.

Photo 26: 9/16/24: Backfilling trench with native fill.

Photo 27: 9/16/24: Finish grading of trench backfill..

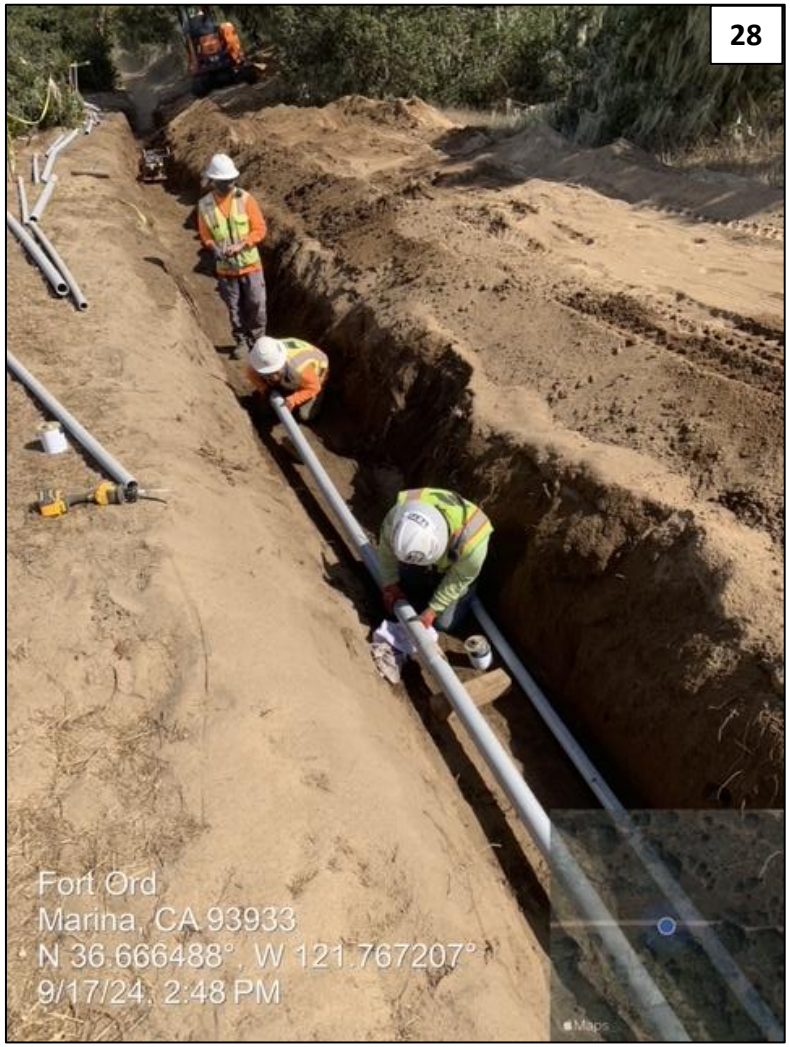
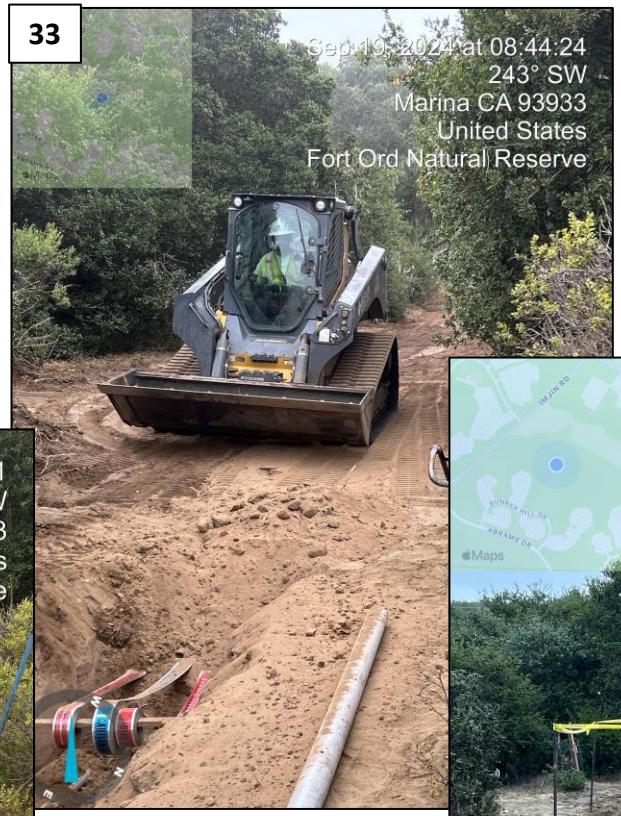


Photo 28-29: 9/17/24: Continue to install conduit and backfill trench.

Photo 30-31: 9/18/24: Continue to install warning tape and backfill trench.

Photo 32-34: 9/19/24: Continue mechanical compaction of trench backfill and finish grading.



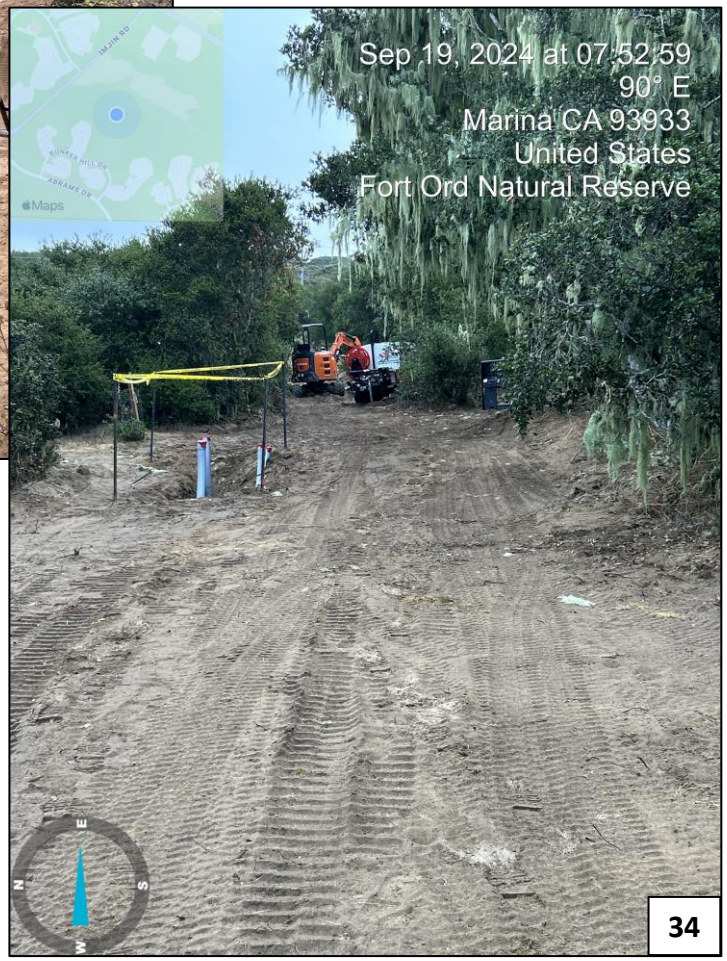


Photo 35 & 37: 9/19/24: Installing electrical and communications conduits near EW-OU2-13-180 vault.

Photo 36: 9/19/24: HDPE groundwater conveyance pipe termination inside EW-OU2-13-180 vault.

Photo 38-39: 9/20/24: EW-OU2-13-180 vault lid placement.

Photo 40-41: 9/23/24: Electrical and communications pull boxes placement.

Photo 42: 9/23/24: Leak detector vault lid placement.

Photo 43: 9/23/24: EW-OU2-13-180 vault.

Photo 44-45: 9/24/24: Placing and securing pull tape in electrical conduit.

Photo 46-47: 9/24/24: Placing concrete bottom for EW-OU2-13-180 vault sump.

Photo 48: 9/24/24: Securing conduit and groundwater conveyance pipe in EW-OU2-13-180 vault sidewall.

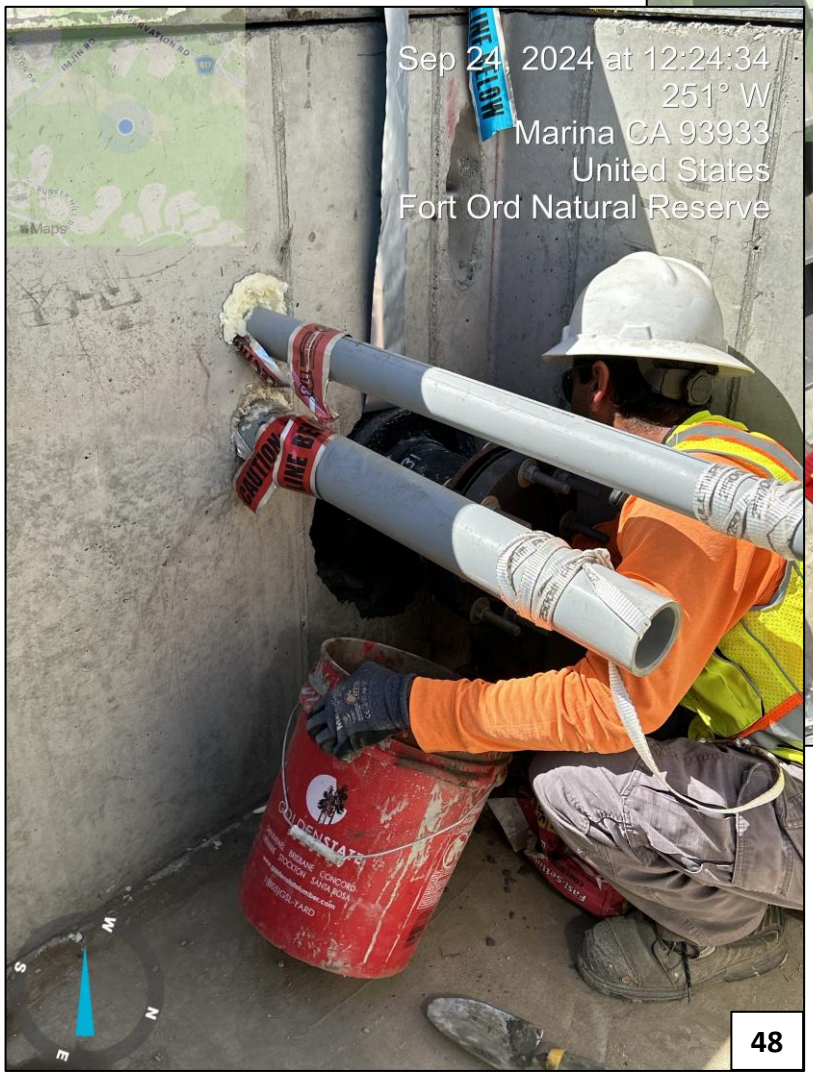


Photo 49: 9/24/24: Installing ladder in EW-OU2-13-180 vault.

Photo 50: 9/25/24: Placing pull box lids.

Photo 51: 9/25/24: Leak detector vault.

Photo 52-55: 9/28/24:
Site cleanup.

Photo 56-57: 9/26/24: Site cleanup.

Photo 58-59: 9/26/24: Site cleanup.

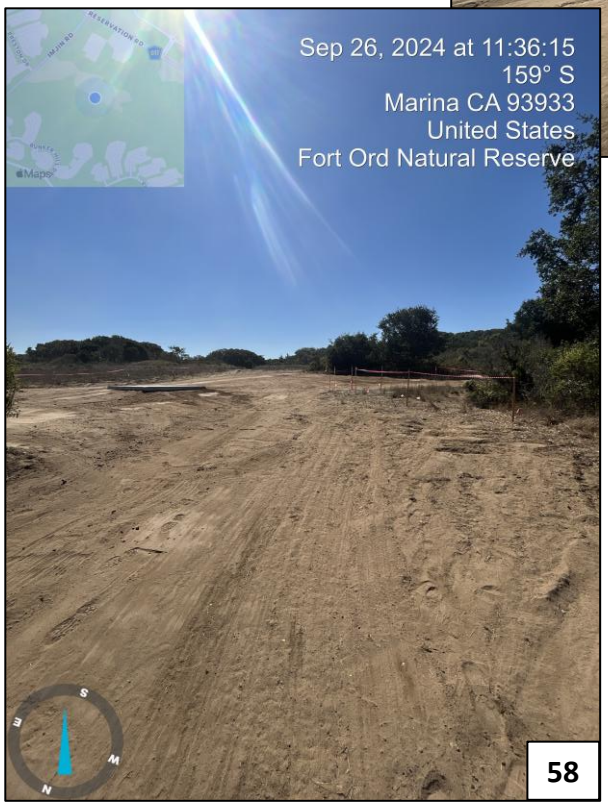
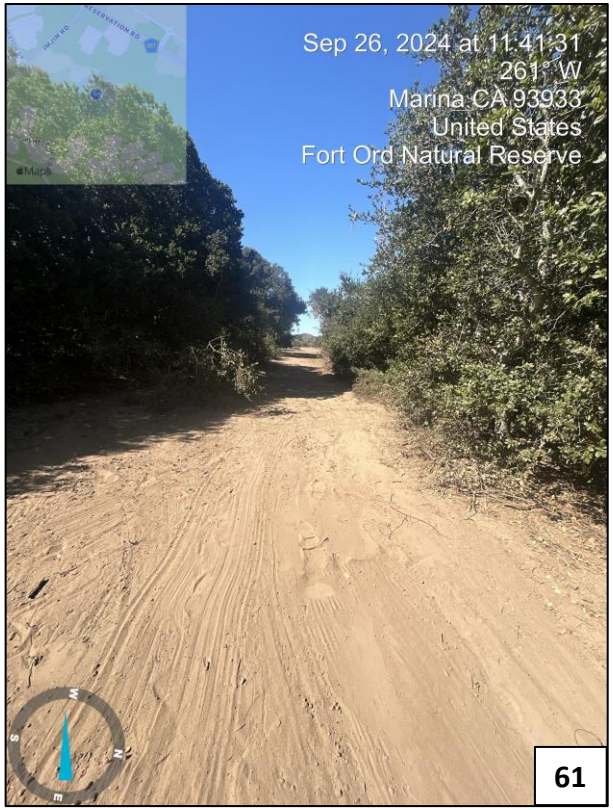
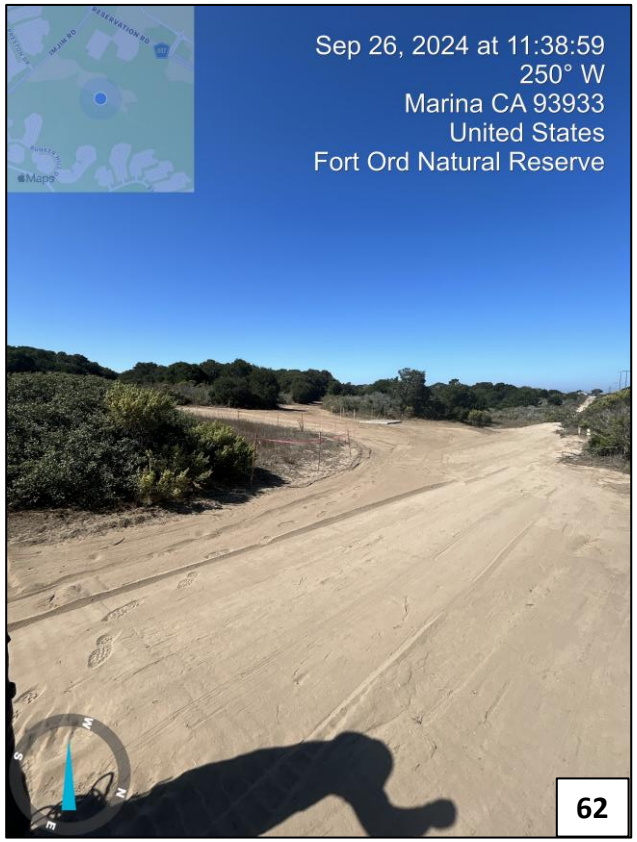


Photo 60: 9/26/24: Raking out final seedbank lift in trench backfill.

Photo 61-63: 9/26/24: Site cleanup.





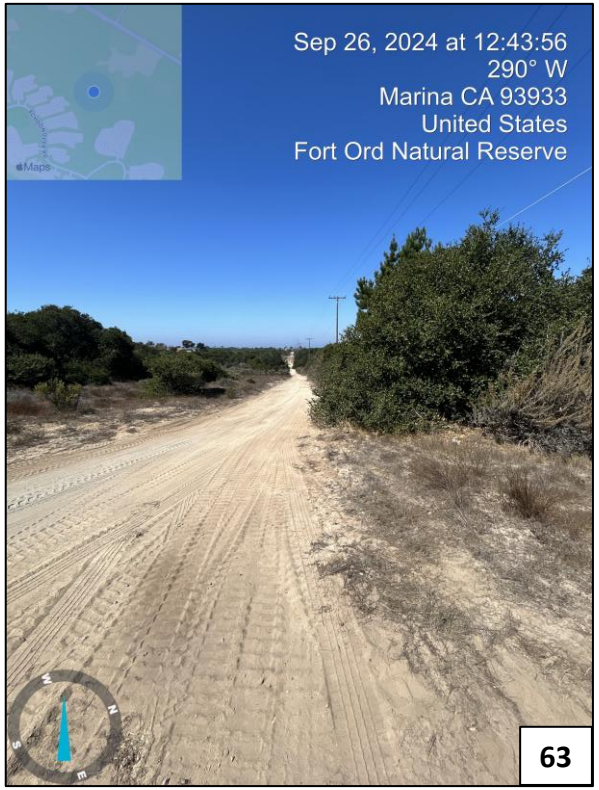


Photo 1: 9/30/24: Old wire removal near Bunker Hill PLC panel.

Photo 2: 9/30/24: Bunker Hill PLC replacement in preparation for connection to EW-OU2-13-180.

Photo 3: 10/1/24: Pulling new 2/0 power wire for EW-OU2-13-180 through existing conduit.

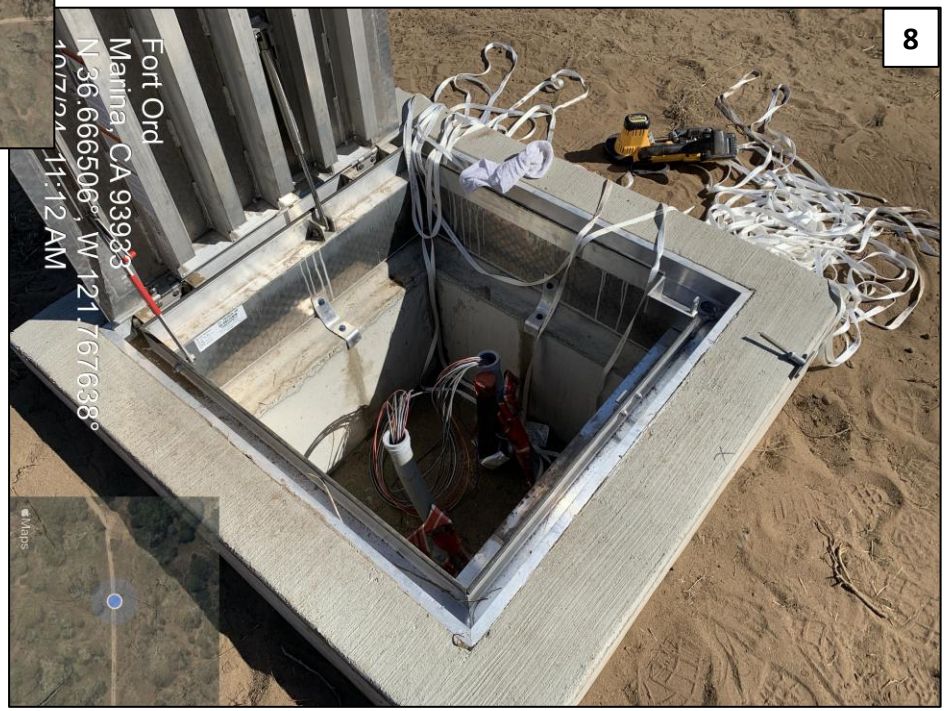
Photo 4: 10/1/24: New 2/0 power wire for EW-OU2-13-180 installed in existing conduit.

Photo 5: 10/3/24: Installation of watertight Polaris connectors to new 2/0 wire.

Photo 6: 10/4/24: Software installation on newly replaced Bunker Hill PLC unit.

Photo 7: 10/7/24: Wire pulling at pull box.

Photo 8: 10/7/24: Wire pulling at leak detector vault.



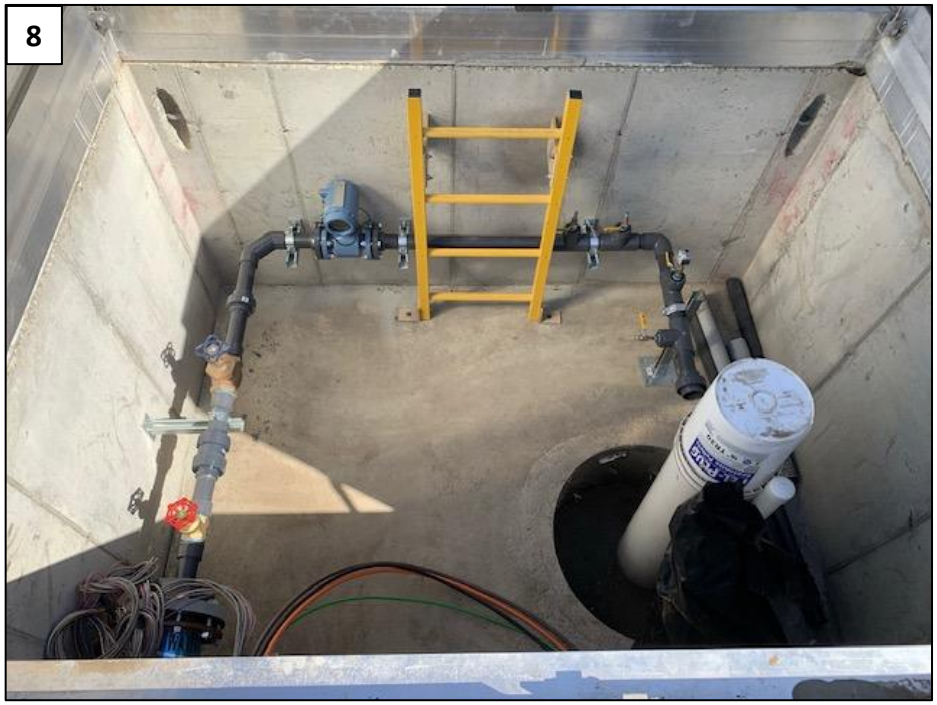


Photo 8-9: 10/8/24: Installation of new wiring for EW-OU2-13-180 in well vault.

Photo 10: 10/14/24: Mounted electrical equipment in EW-OU2-13-180 vault.

Photo 11: 10/14/24: Replacing wire between the Bunker Hill PLC and the EW-OU2-09-180 vault.

Photo 12: 10/28/24: Submersible pump motor plate.

Photo 13: 10/28/24: Submersible pump model.

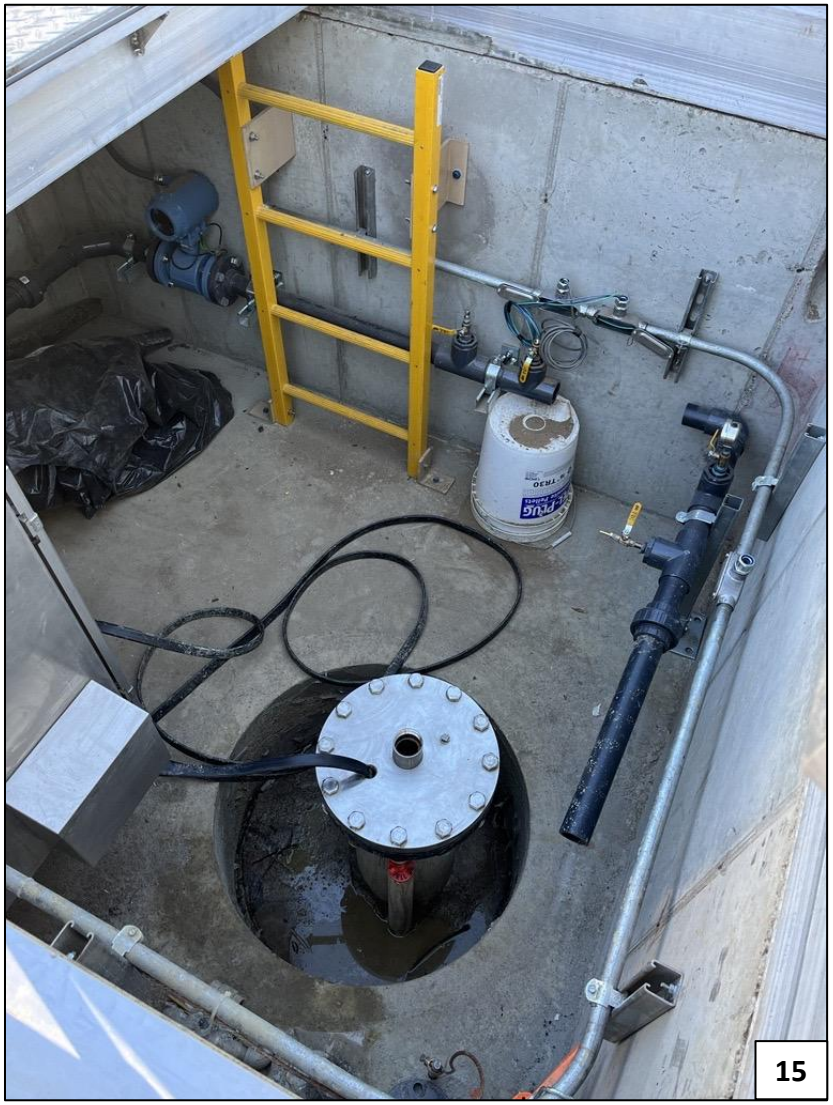


Photo 14-15: 10/30/24: Installation of leak detectors at EW-OU2-13-180 vault.

16

17

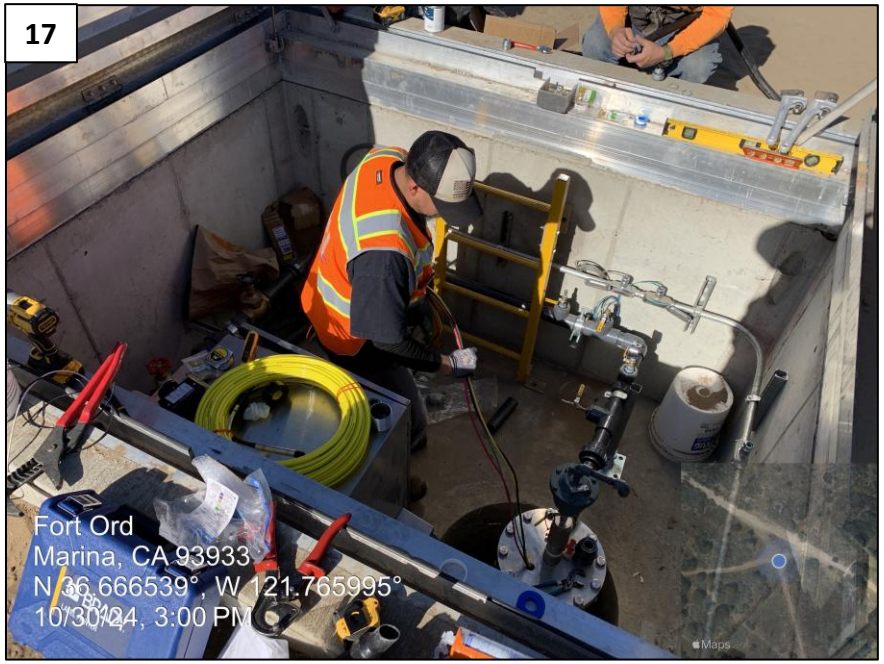


Photo 16-17: 10/30/24: Installation of wiring at EW-OU2-13-180 vault.

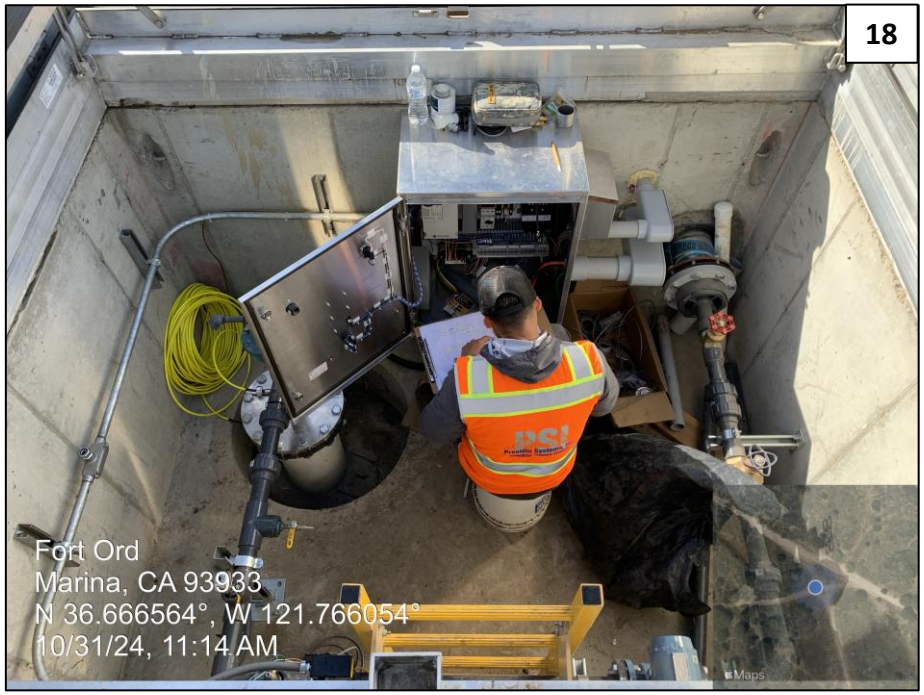


Photo 18: 10/31/24: Programming at EW-OU2-13-180 vault.

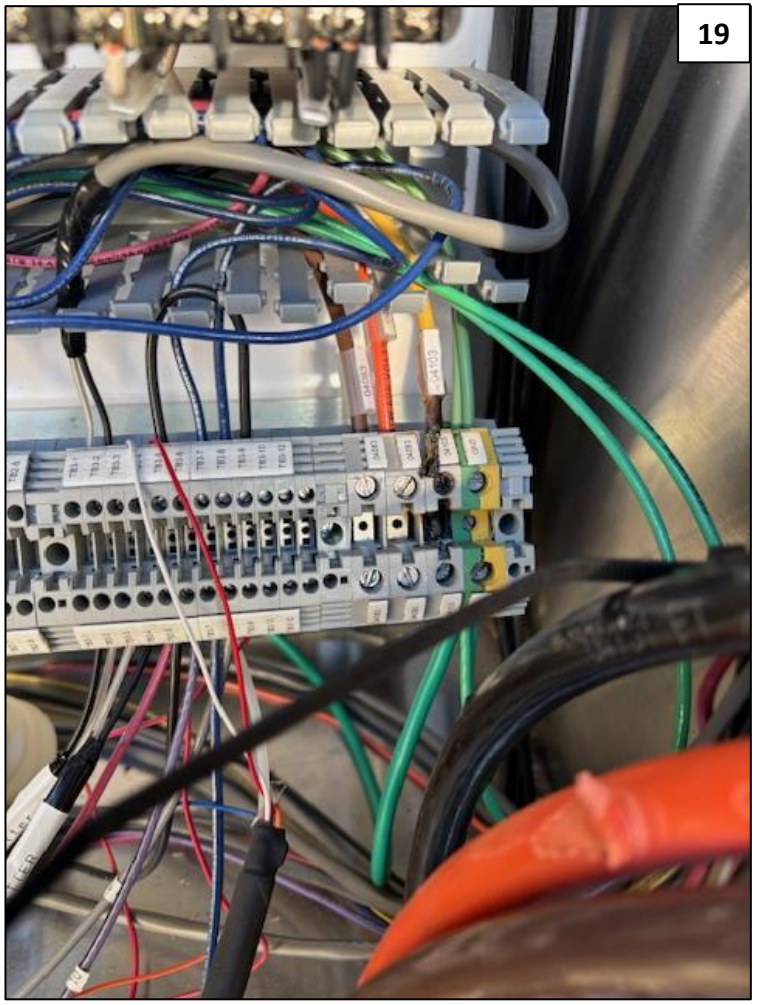


Photo 19: 1/13/25: Melted wiring junction found after aborted constant-rate test for EW-OU2-13-180. The junction was bypassed and the constant-rate test successfully completed.

Appendix B

Well Permit

Monterey County Health Department
Environmental Health Bureau
1270 Natividad Road
Salinas, CA 93906
Office: (831) 755-4505
Fax: (831) 796-8698

Permit No: HZSB24/SEA24-000822

PROJECT DESCRIPTION: 5180 MONITORING WELL CONSTRUCTION EACH WELL INVOICE: EXEMPT FROM BILLING

☑ -MONITORING WELL ☐ -CONSTRUCTION
☐ -VAPOR EXTRACTION WELL ☐ -DESTRUCTION

Site Location Address: 1,350 FEET EAST ON OLD COUNTY RD FROM IMJIN PRKWY (EW-OU2-13-180) FUN SITE EXEMPT FROM BILLING

APN: 031121002000

Site Contact Person:	**Owner Name and Address:**
AHTNA GLOBAL. LLC DEREK LIEBERMAN 9699 LARKSPUR LANE, STE 203 MONTEREY CA 93940 (831) 224-3327	U.S ARMY CORPS OF ENGINEERS 1325 J STREET SANCRAMENT CA 95814 (916) 886-6617
Consultant Name and Address:	**Driller Name and Address:**
AHTNA GLOBAL. LLC DEREK LIEBERMAN 9699 LARKSPUR LANE, STE 203 MONTEREY CA 93940 (831) 224-3327	BC2 ENVIRONMENTAL, LLC. C-57: 1051275 1150 W TRENTON AVE ORAGNE CA 92867 (714) 744-2990

CONDITIONS:

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

FOR DESTRUCTION OF ALL WELLS INCLUDING SOIL BORING, SPARGING, EXTRACTION WELLS, MONITORING WELLS AND EXPLORATORY BORINGS, THE REQUIREMENTS SETFORTH IN CALIFORNIA WELL STANDARDS BULLETIN 74-81, SUPPLEMENT 74-90 AND MONTEREY COUNTY WELL ORDINANCE 15.08 ARE REQUIRED.

Date Issued: 05/28/2024 **Date Expires:** **05/28/2025**

Issued By: _____
Roger Van Horn, REHS IV
Supervisor DWPS/Well Program

Approved: _____

HIT_SOIL_BORING_PERMIT
5/28/2024 11:11:58 AM

Appendix C

Boring Log and Well Construction Diagram

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DATE STARTED 6/19/24 **COMPLETED** 6/26/24 **SCREENED INTERVAL:** 174-220 ft bgs

DRILLING CONTRACTOR BC2 **NORTHING** 2137459.852 ft **EASTING** 5750553.207 ft

DRILLING METHOD Mud Rotary **SURFACE ELEVATION:** 144.91 ft amsl

HOLE SIZE 18 inches **NOTES** Pilot Hole 12.25" and 226' bgs. Overdrill 18" and 223' bgs

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					Casing Top Elev: 141.78 (ft) Casing Type: 10" SCH 80 PVC
		SW		Yellowish brown (10YR 5/4) well graded sand (SW). Minor Silt and organics. >95% sand fine to coarse. dry	Top of Vault
5				5.0 — 139.9	10" Well Cap
		SP		dark yellowish brown (10YR 4/4) poorly graded sand (SP), >95% sand, <5% silt. fine sand, >5% medium. moist	
10				10.0 — 134.9	
		SP		same as above, but coarser grained sand, medium grained with minor fine and coarse grains	
15					
20				20.0 — 124.9	
		SP		color change to yellowish brown (10YR 5/6), same as above, minor fines	10" SCH 80 PVC Well Casing and 2" SCH 80 PVC Piezometer
25					
30					
35					

(Continued Next Page)

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
35				color change to yellowish brown (10YR 5/6), same as above, minor fines *(continued)*	
		SP			
40				40.0 — 104.9	
				color change to light yellowish brown (10YR 6/4), same as above	
45		SP			Centralizer
50				50.0 — 94.9	
				color change to yellowish brown (10YR 5/4), same as above	
55		SP			10" SCH 80 PVC Well Casing and 2" SCH 80 PVC Piezometer
60				60.0 — 84.9	
				same as above, grains slightly finer	
65		SP			
70				70.0 — 74.9	
				same as above, 95% fine sand, 5% medium	
		SP			
75					

(Continued Next Page)

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
75				same as above, 95% fine sand, 5% medium *(continued)*		
		SP				
80				80.0	64.9	
				color change to light yellowish brown (10YR 6/4), same as above		Cement Grout
85						Centralizer
90		SP				10" SCH 80 PVC Well Casing and 2" SCH 80 PVC Piezometer
95						
100				100.0	44.9	
				color change to yellowish brown (10YR 5/4); mud properties - viscosity = 34.82 sec, density = 8.3 lb/ft3, sand content = 2%		
		SP				
105						
				107.0	37.9	
		CL		light olive brown (2.5Y 5/4), lean clay with fine sand (85% clay, 15% sand). low plasticity, cohesive. driller noted hard drilling after 107 ft bgs		
110				110.0	34.9	
				brown (10YR 5/3), poorly graded fine to medium grained sand (>95% sand, minor silt)		
		SP				
115						

(Continued Next Page)

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
115						
		SP		brown (10YR 5/3), poorly graded fine to medium grained sand (>95% sand, minor silt) *(continued)*		
120				120.0	24.9	
		CH		dark greenish grey (GLEY1 4/10Y), fat clay (90% clay, 10% fine sand). dry. plastic, cohesive. dense. mottled with some calcite veins; mud properties - viscosity = 35.62 sec, density = 8.3 lb/ft3, sand content = 1.75%. 1 bag polymer, 2 bags gel.		
				123.0	21.9	
		ML		olive (5Y 5/3), sandy silt (80% silt, 20% sand). dry.		
125				125.0	19.9	Centralizer
		CH		olive gray (5Y 4/2), fat clay (95% clay, 5% silt). dry, plastic, cohesive, dense. some oxidized laminations		
130				130.0	14.9	
		CH		same as above with 10% medium to fine grained sand		
135						10" SCH 80 PVC Well Casing and 2" SCH 80 PVC Piezometer
140				140.0	4.9	
		CH		same as above with 20-30% medium to coarse sand. mud properties - viscosity = 36.32 sec, density = 8.9 lb/ft3, sand content 1.75%. no additional polymer or gel		
145						
				147.0	-2.1	
		SC		light olive brown (2.5Y 5/3), clayey sand (80% fine to medium grained sand, 20% lean clay). drilling is easier but slow.		
150				150.0	-5.1	
		CL		light brownish gray (2.5Y 6/2), lean clay (95% clay, 5% fines). non plastic, cohesive, moist. mud properties - viscosity = 35.19 sec, density = 8.4 lb/ft3, sand content = 1.25%. no additional polymer or gel		
				152.5	-7.6	
		SW		light yellowish gray (10YR 6/2), well graded sand (>95% sand, 5% silt). sand is fine to medium grained. oxidized mottling. moist		
155				155.0	-10.1	

(Continued Next Page)

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION		WELL DIAGRAM
155						
		SW		brown (10YR 5/3), color change. same as above. drilling easier		
160				160.0	-15.1	
		SW		same as above but fine to coarse grained. moist. driller notes loss of ~400 gal of mud between 160 ft - 180 ft		Bentonite Seal
165				165.0	-20.1	Centralizer
		SW		166.0 same as above but medium coarse grained sand. ~10% fine grained. moist. driller notes bucking during 12.25" pilot hole drilling (~162-170 ftbgs)	-21.1	#60 Transition Sand (164-168.5 ft bgs)
		SW		no recovery from 166-170 ft bgs		
170				170.0	-25.1	
		SW		same as above but medium to fine grained with 10% coarse. driller notes bucking during 18 overdrill. driller notes loss of 300-400 gal of mud between 170-183 ft during 18" overdrill		
				172.0	-27.1	
		SP		brown (10YR 5/3), poorly graded sand (95% sand, 5% silt). 80% coarse sand with 20% medium to fine grained. saturated		
				174.5	-29.6	
175		SW		175.0 brown (10YR 5/3), well graded sand (95% sand, 5% silt). medium to fine grained with 10% coarse. moist	-30.1	
		SW		no recovery 175 ft to 180 ft bgs. driller notes very loose sand. driller notes bucking during 12.25" pilot hole		
180				180.0	-35.1	
		SP		no recovery 180 ft to 192 ft bgs. driller notes very loose sand. at 183 ft, loss of ~15 gal of mud from 183 ft to 192 ft		Filter Pack: SiLibeads® #8/16 sand equivalent
185						
		SP				
190						10" Type 316 stainless steel screen 0.045 slot size and SCH 80 PVC screen 0.020 slot size
				192.0	-47.1	
		SP		pale brown (10YR 6/3), poorly graded sand (90% sand, 10% silt). 50% coarse, 30% medium, 20% fine sand		
195				195.0	-50.1	

(Continued Next Page)

Ahtna

CONTRACT NUMBER W9123823C0026 **PROJECT NAME** OUCTP Upper 180-Foot Aquifer Extraction Well

AHTNA PROJECT NUMBER 21177.000.01.0000 **PROJECT LOCATION** Former Fort Ord, California

DEPTH (ft)	SAMPLE TYPE NUMBER	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
195		SP		196.0 brown (10YR 6/3), poorly graded sand. very coarse grained (90% sand, 10% small gravel/pebbles). subangular to rounded sand and gravel. sand is 10% medium, 10% fine, 80% coarse. mud properties - viscosity = 43 sec, density = 8.7 lb/ft3, sand content = 1.5%. bucking stopped at ~195 ft during 18" overdrill -51.1	Filter Pack: SiLibeads® #8/16 sand equivalent 10" Type 316 stainless steel screen 0.045 slot size and SCH 80 PVC screen 0.020 slot size
		SP		pale brown (10YR 6/3) poorly graded sand (90% sand, 10% silt). coarse to medium grain. saturated	
				199.5 -54.6	
200		SM		200.5 very pale brown (10YR 8/3) silty sand (70% fine sand, 30% silt). dry and dense striations -55.6	
		SM		brown (10YR 5/3) same as above but saturated and sand is coarse to fine grained (well graded)	
205				205.0 -60.1	Centralizer
		SM		no recovery from 205 to 209 ft bgs	
				209.0 -64.1	
210		SM		210.5 same as above but less silt (~20%) -65.6	
		SM		brown (10YR 5/3) poorly graded silty sand (80% sand, 20% silt. wet. mica. sand is fine. coarser sand layer (~1" thick) at 212 ft bgs	
215				215.0 -70.1	
		SM		no recovery 215 to 220 ft bgs	
220				220.0 -75.1	Blank Casing with sump
		ML		light olive brown (2.5YR 5/3), silt (80% silt, 10% lean clay, 10% fine sand). mica. non-cohesive and non-plastic	End cap
				224.0 -79.1	
225		SP		225.0 dark yellowish brown (10YR 4/4), poorly graded sand (>95% sand, minor fines). sand is fine. moist. mica. some well rounded pebbles. some oxidized mottling. mud properties - viscosity = 32.55 sec, density = 8.8 lb/ft3, sand content = 1.75% -80.1	Slough from base of screen to borehole depth

Bottom of borehole at 226.0 feet.

Appendix D

Laboratory Analytical Reports and Validation Summary Reports

EW-OU2-13-180 Construction

Sample Cross Reference Table

Table D1. EW-OU2-13-180 Construction Sample Cross Reference Table

Station ID	PDB Station ID	Sample ID	Sample Date	Sample Type	Package Lab ID
SOIL BIN CHHP21829	-	2429MOU2087F	7/15/2024	IDW	**FC17179-1**
SOIL BIN CHHP21457	-	2429MOU2088F	7/15/2024	IDW	**FC17179-2**
EW-OU2-13-180	1	2433MOU2038F	8/13/2024	EW	**FC17980-1**
EW-OU2-13-180	2	2433MOU2039F	8/13/2024	EW	**FC17980-2**
EW-OU2-13-180	3	2433MOU2040F	8/13/2024	EW	**FC17980-3**
EW-OU2-13-180	4	2433MOU2041F	8/13/2024	EW	**FC17980-4**
EW-OU2-13-180	5	2433MOU2042F	8/13/2024	EW	**FC17980-5**
EW-OU2-13-180-DUP	5	2433MOU2043D	8/13/2024	DUP	**FC17980-6**
EW-OU2-13-180	6	2433MOU2044F	8/13/2024	EW	**FC17980-7**
EW-OU2-13-180	7	2433MOU2045F	8/13/2024	EW	**FC17980-8**
EW-OU2-13-180	8	2433MOU2046F	8/13/2024	EW	**FC17980-9**
EW-OU2-13-180	9	2433MOU2047F	8/13/2024	EW	**FC17980-10**
EW-OU2-13-180	-	2450MOU2023F	12/11/2024	EW	**FC21167-3**
EW-OU2-13-180-DUP	-	2450MOU2024D	12/11/2024	DUP	**FC21167-4**
EW-OU2-13-180	-	2450MOU2139F	12/11/2024	EW	**FC21168-1**
EW-OU2-13-180-DUP	-	2450MOU2140D	12/11/2024	DUP	**FC21168-2**

Sample Counts	
Number Primary GWM Samples:	0
Number Primary EW Samples:	11
Number Total Primary Samples:	11
Numper Duplicate Samples:	3
Percent Duplicate:	27%

Notes:

-: collected from pump

COC: chain of custody

DUP: duplicate sample

EW: extraction well sample

ID: identification

IDW: investigation derived waste

NA: not applicable

PDB: passive diffusion bag

Groundwater and Soil IDW Laboratory Data

Validation Summary Reports (VSRs)

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AHTNA
296 12th Street
Marina, CA 93933
ATTN: Mr. Eric A. Schmidt
eschmidt@ahtna.net

August 1, 2024

SUBJECT: Fort Ord, OUCTP-Well Construction - Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. This SDG was received on July 29, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #59432:

SDG #	**Fraction**
FC17179	Volatiles

The data validation was performed under Stage 2B & 4 guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 8, July 2020)
- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017)
- U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

41 pages-ADV

Attachment 1

ADR/Stage 4 90/10 **LDC# 59432 (AHTNA Engineering Services - Marina, CA / Fort Ord, OUCTP-Well Construction)** **Project # 21065.000.01.0000**

LDC	SDG#	DATE REC'D	(3) DATE DUE	(8) VOA (8260D)																																	
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	FC17179	07/29/24	08/19/24	0	1																																
A	FC17179	07/29/24	08/19/24	0	1																																

LDC Report# 59432

Automated Data Review Data Validation Report
Fort Ord, OUCTP-A

Sample Delivery Group(s)

FC17179

August 1, 2024

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples collected during the July 2024 sampling period. Data validation was performed in accordance with the Quality Assurance Project Plan Volume I, Appendix A for Groundwater Remedies and Monitoring at Operable Unit 2, Sites 2 and 12, and Operable Unit Carbon Tetrachloride Plume, Former Fort Ord, California (Revision 8, July 2020), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.1 (2017), and the U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method(s):

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260D

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Approximately 10 percent of samples were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J+ The result was an estimated quantity, but the result may be biased high.

J- The result was an estimated quantity, but the result may be biased low.

J The reported result was an estimated quantity value with an unknown bias.

U The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

N The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification".

NJ The analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.

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. Acceptance or rejection of the data should be decided by the project team (which should include a Project Chemist), but exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For analytes where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the analytes, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes with the following exceptions:

Date	Analyte	%D	Associated Samples	Flag
07/17/24	Vinyl chloride	22.2	All samples in SDG L17179	NA

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Laboratory Blanks

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks.

Field Blanks

No field blanks were identified in this SDG.

Surrogate Spikes

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for this method, and therefore matrix spike and matrix spike duplicate analyses were not performed.

Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the exception of one LCS pairs for vinyl chloride. No data were qualified due to high %Rs when the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Field Duplicates

No field duplicates were identified in this SDG.

Internal Standards

All internal standard areas and retention times were within QC limits.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

Target Analyte Identification

All target analyte identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were recommended for exclusion in this SDG.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
15-Jul-2024	2429MOU2087F	FC17179-1	N	5035	SW846 8260D	Stage 4
15-Jul-2024	2429MOU2088F	FC17179-2	N	5035	SW846 8260D	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: FC17179

Laboratory: ACTO

EDD Filename: FC17179ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

FC17179

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC17179 **Laboratory: ACTO**

EDD Filename: FC17179ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D**
Matrix: **SO**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
V3C1232-BS (2429MOU2087F 2429MOU2088F)	VINYL CHLORIDE	144	-	76-141	-	VINYL CHLORIDE	J+ (all detects)

Project Name and Number: - Soil Samples - Former Fort Ord, CA

LDC #: 59432A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 12/2/24
SDG #: FC17179 ADR/Stage 4 Page: 1 of 1
Laboratory: SGS North America, Inc., Orlando, FL Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 15% or r^2 ≥ 0.99
IV.	Continuing calibration / Closing CCV	A/A	%D ≤ 20/50%
V.	Laboratory Blanks	A	
VI.	Field blanks	N	
VII.	Surrogate spikes	A	
VIII.	Matrix spike/Matrix spike duplicates	N	CS
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	N	
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Reviewed for Stage 4 validation.
XIII.	Target analyte identification	A	Reviewed for Stage 4 validation.
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

**Indicates samples underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2429MOU2087F**	FC17179-1**	Soil	07/15/24
2	2429MOU2088F	FC17179-2	Soil	07/15/24
3				
4				
5				
6				
7				
8				
9				
10				

Notes:

	VOC-032						

LDC #~~39132N9~~

VALIDATION FINDINGS CHECKLIST

Page: 1 of 2
Reviewer: 9

Method: Volatiles (EPA SW 846 Method 8260D)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ ~~20~~ 15% and relative response factors (RRF) within method criteria?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ ~~20~~ 20%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) within method criteria?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?		✓		
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XI. Internal standards				
Were internal standard area counts within -50% to +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane
C. Vinyl chloride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO.1,1-Difluoroethane	O1. 3-Methylpentane
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. Ethylene Dibromide

LDC #: 39432A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: <20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	7/12/24	3C19300	C	22.3		All (ND)	J+/bets/A

LDC #: 39432A1a

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

RRF = $(A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (50 std)	Recalculated RRF (50 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	IC42	4/27/21	S (1st internal standard)	0.362	0.362	0.350	0.350	7.05	7.05
			AA (2nd internal standard)	0.664	0.664	0.624	0.624	12.11	12.12
			(3rd internal standard)						
			(4th internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39433A19

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: 1

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	39300	7/7/14	S (1st internal standard)	0.350	0.391	0.391	11.7	11.8
			AA (2nd internal standard)	0.624	0.652	0.652	4.5	4.5
			(3rd internal standard)					
			(4th internal standard)					
2			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39833A19

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 1

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane	50.0	49.18	98	98	
1,2-Dichloroethane-d4	↓	50.66	101	101	
Toluene-d8		48.85	98	98	
Bromofluorobenzene		51.55	103	103	

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 53453A9

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: 1

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: V3C1332-BS

Compound	Spike Added (MS/MSD)		Spiked Sample Concentration (MS/MSD)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	50	NA	58.5	NA	117	117				
Trichloroethene	1	1	58.0	1	116	116				
Benzene										
Toluene										
Chlorobenzene										

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 59132B1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: a

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. LCS , S :

Conc. = $\frac{(96168)(50.0)(1)}{(23167)(0.750)(\quad)(\quad)}$

= 57.9 MS

#	Sample ID	Compound	Reported Concentration (MS)	Calculated Concentration (MS)	Qualification
	V3C1332-BS	S	58.0	58.0	

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AHTNA
296 12th Street
Marina, CA 93933
ATTN: Mr. Eric A. Schmidt
eschmidt@ahtna.net

August 27, 2024

SUBJECT: Fort Ord, OU2 Landfill - Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on August 23, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #59573:

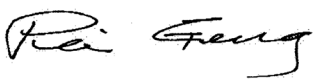
SDG #	**Fraction**
FC17979	Volatiles
FC17980	

The data validation was performed under Stage 2B & 4 guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022)
- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021)
- U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,



Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

115 pages-ADV

Attachment 1

ADR/Stage 4 90/10 | **LDC# 59573 (AHTNA Engineering Services - Marina, CA / Fort Ord, OU2)** | **PO 21001269 Project # 21877**

LDC	SDG#	DATE REC'D	(3) DATE DUE	(11) VOA (8260D -SIM)																																	
Matrix:	Water/Soil			W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	FC17979	08/23/24	09/16/24	18	0																																
A	FC17979	08/23/24	09/16/24	3	0																																
B	FC17980	08/23/24	09/16/24	11	0																																
Total	TR/PG			32	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	32

Shaded cells indicate Stage 4 validation (all other cells are ADR validation). These sample counts do not include MS/MSD, and DUPs

V:\LOGIN\Ahtna\Fort Ord\OU2\59573ST-OU2.wpd

LDC Report# 59573

Automated Data Review Data Validation Report
Fort Ord, OU2 Landfill

Sample Delivery Group(s)

FC17979
FC17980

August 27, 2024

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples collected during the August 2024 sampling period. Data validation was performed in accordance with the Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021), and the U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method(s):

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260D in Selected Ion Monitoring (SIM) mode

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Approximately 10 percent of samples were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J+ The result was an estimated quantity, but the result may be biased high.

J- The result was an estimated quantity, but the result may be biased low.

J The reported result was an estimated quantity value with an unknown bias.

U The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

N The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification".

NJ The analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.

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. Acceptance or rejection of the data should be decided by the project team (which should include a Project Chemist), but exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For analytes where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the analytes, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes with the following exceptions:

SDG	Date	Analyte	%D	Associated Samples	Flag
FC17979	08/20/24	Carbon tetrachloride	21.3	2433MOU2007F** 2433MOU2009D 2433MOU2010F	NA

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Laboratory Blanks

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks.

Field Blanks

One trip blank was collected and analyzed. No contaminants were found.

One field blank was collected and analyzed. No contaminants were found.

Surrogate Spikes

Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the exception of one LCS for cis-1,2-dichloroethene. The associated sample results were qualified as detected estimated (J+) as applicable. No data were qualified due to high %Rs when the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Field Duplicates

Three field duplicate pairs were collected and analyzed. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Internal Standards

All internal standard areas and retention times were within QC limits.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All analytes reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

Target Analyte Identification

All target analyte identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

Manual integrations were reviewed and were considered acceptable. The laboratory provided before and after integration printouts.

Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were recommended for exclusion in this SDG.

Due to LCS %R, data were qualified as estimated in three samples.

Due to results below the LOQ, data were qualified as estimated in twenty-four samples.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Aug-2024	2433M0BW051A	FC17979-1	TB	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2038F	FC17980-1	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2039F	FC17980-2	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2040F	FC17980-3	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2041F	FC17980-4	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2042F	FC17980-5	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2043D	FC17980-6	FD	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2044F	FC17980-7	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2045F	FC17980-8	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2046F	FC17980-9	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2047F	FC17980-10	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433M0BW053C	FC17980-11	FB	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2030F	FC17979-2	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2031F	FC17979-3	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2032F	FC17979-4	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2033F	FC17979-5	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2034D	FC17979-6	FD	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2035F	FC17979-7	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2036F	FC17979-8	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2037F	FC17979-9	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2004F	FC17979-10	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2005F	FC17979-11	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2006F	FC17979-12	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2007F	FC17979-13	N	5030B	W846 8260D BY SI	Stage 4
13-Aug-2024	2433MOU2008F	FC17979-14	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2009D	FC17979-15	FD	5030B	W846 8260D BY SI	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
13-Aug-2024	2433MOU2010F	FC17979-16	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2012F	FC17979-17	N	5030B	W846 8260D BY SI	Stage 4
13-Aug-2024	2433MOU2012FMS	FC17979-17MS	MS	5030B	W846 8260D BY SI	Stage 4
13-Aug-2024	2433MOU2012FMSD	FC17979-17MSD	MSD	5030B	W846 8260D BY SI	Stage 4
13-Aug-2024	2433MOU2011F	FC17979-18	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2013F	FC17979-19	N	5030B	W846 8260D BY SI	Stage 4
13-Aug-2024	2433MOU2014F	FC17979-20	N	5030B	W846 8260D BY SI	Stage 2B
13-Aug-2024	2433MOU2015F	FC17979-21	N	5030B	W846 8260D BY SI	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

SDG: FC17979

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

8/13/2024 10:48:00

Sample ID: **2433MOU2004F** ***Collected:*** **AM** ***Analysis Type:*** **1RES** ***Dilution:*** **1.00**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.45	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 11:07:00

Sample ID: **2433MOU2005F** ***Collected:*** **AM** ***Analysis Type:*** **1RES** ***Dilution:*** **1.00**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.22	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.29	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.28	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 11:21:00

Sample ID: **2433MOU2006F** ***Collected:*** **AM** ***Analysis Type:*** **1RES** ***Dilution:*** **1.00**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
VINYL CHLORIDE	0.068	J	0.10	LOD	0.10	LOQ	ug/L	J	RI

8/13/2024 11:32:00

Sample ID: **2433MOU2007F** ***Collected:*** **AM** ***Analysis Type:*** **1RES** ***Dilution:*** **1.00**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
1,2-DICHLOROETHANE	0.27	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.72		0.25	LOD	0.50	LOQ	ug/L	J+	Lcs
TETRACHLOROETHYLENE	0.49	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 11:40:00

Sample ID: **2433MOU2008F** ***Collected:*** **AM** ***Analysis Type:*** **1RES** ***Dilution:*** **1.00**

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

SDG: FC17979

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2433MOU2009D ***Collected:*** 8/13/2024 11:45:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.96		0.25	LOD	0.50	LOQ	ug/L	J+	Lcs
TETRACHLOROETHYLENE	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2010F ***Collected:*** 8/13/2024 1:37:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.27	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
1,2-DICHLOROPROPANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	1.2		0.25	LOD	0.50	LOQ	ug/L	J+	Lcs

Sample ID: 2433MOU2011F ***Collected:*** 8/13/2024 2:07:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROPROPANE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.34	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2012F ***Collected:*** 8/13/2024 1:52:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.34	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2013F ***Collected:*** 8/13/2024 2:28:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CARBON TETRACHLORIDE	0.32	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.41	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

SDG: FC17979

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2433MOU2014F ***Collected:*** 8/13/2024 2:48:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.46	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.35	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2015F ***Collected:*** 8/13/2024 3:04:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.30	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.36	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
VINYL CHLORIDE	0.099	J	0.10	LOD	0.10	LOQ	ug/L	J	RI

Sample ID: 2433MOU2030F ***Collected:*** 8/13/2024 10:02:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2031F ***Collected:*** 8/13/2024 10:06:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC17980

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2433MOU2038F ***Collected:*** 8/13/2024 9:10:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

SDG: FC17980

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

8/13/2024 9:14:00

Sample ID: 2433MOU2039F ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.26	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 9:18:00

Sample ID: 2433MOU2040F ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 9:22:00

Sample ID: 2433MOU2041F ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 9:25:00

Sample ID: 2433MOU2042F ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 9:28:00

Sample ID: 2433MOU2043D ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

8/13/2024 9:31:00

Sample ID: 2433MOU2044F ***Collected:*** AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

SDG: FC17980

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2433MOU2045F ***Collected:*** 8/13/2024 9:34:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2046F ***Collected:*** 8/13/2024 9:37:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2433MOU2047F ***Collected:*** 8/13/2024 9:40:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC17979, FC17980 **Laboratory: ACTO**

EDD Filename: FC17979ACTO, FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Reason Code Legend

Reason Code	*Description*
Lcs	Laboratory Control Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Lower Estimation

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

FC17979

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC17979 **Laboratory: ACTO**

EDD Filename: FC17979ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*. Affected Compounds*	*Flag*
VZ3079-BS (2433MOU2007F 2433MOU2009D 2433MOU2010F)	CIS-1,2-DICHLOROETHENE	122	-	78.00-120.00	-	CIS-1,2-DICHLOROETHENE	J+ (all detects)

Field Duplicate RPD Report

Lab Reporting Batch ID: FC17979 **Laboratory: ACTO**

EDD Filename: FC17979ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	*Concentration (ug/L)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	2433MOU2008F	**2433MOU2009D**			
1,1-DICHLOROETHANE	0.19	0.19	0	30.00	
CHLOROFORM	0.33	0.31	6	30.00	
CIS-1,2-DICHLOROETHENE	0.94	0.96	2	30.00	No Qualifiers Applied
TETRACHLOROETHYLENE	0.25	0.25	0	30.00	
Trichloroethylene	4.0	4.1	2	30.00	

Reporting Limit Outliers

Lab Reporting Batch ID: FC17979 **Laboratory: ACTO**

EDD Filename: FC17979ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM

Matrix: AQ

SampleID	Analyte	Lab Qual	Result	Reporting Limit	RL Type	Units	Flag
2433MOU2004F	1,1-DICHLOROETHANE	J	0.45	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.10	0.50	LOQ	ug/L	
	Trichloroethylene	J	0.31	0.50	LOQ	ug/L	
2433MOU2005F	1,1-DICHLOROETHANE	J	0.22	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.29	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.28	0.50	LOQ	ug/L	
2433MOU2006F	TETRACHLOROETHYLENE	J	0.23	0.50	LOQ	ug/L	J (all detects)
	Trichloroethylene	J	0.15	0.50	LOQ	ug/L	
	VINYL CHLORIDE	J	0.068	0.10	LOQ	ug/L	
2433MOU2007F	1,1-DICHLOROETHANE	J	0.13	0.50	LOQ	ug/L	J (all detects)
	1,2-DICHLOROETHANE	J	0.27	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.49	0.50	LOQ	ug/L	
2433MOU2008F	1,1-DICHLOROETHANE	J	0.19	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.33	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.25	0.50	LOQ	ug/L	
2433MOU2009D	1,1-DICHLOROETHANE	J	0.19	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.31	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.25	0.50	LOQ	ug/L	
2433MOU2010F	1,2-DICHLOROETHANE	J	0.27	0.50	LOQ	ug/L	J (all detects)
	1,2-DICHLOROPROPANE	J	0.11	0.50	LOQ	ug/L	
	CHLOROFORM	J	0.38	0.50	LOQ	ug/L	
2433MOU2011F	1,2-DICHLOROPROPANE	J	0.17	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.34	0.50	LOQ	ug/L	
2433MOU2012F	CHLOROFORM	J	0.34	0.50	LOQ	ug/L	J (all detects)
2433MOU2013F	1,1-DICHLOROETHANE	J	0.11	0.50	LOQ	ug/L	J (all detects)
	CARBON TETRACHLORIDE	J	0.32	0.50	LOQ	ug/L	
	CHLOROFORM	J	0.41	0.50	LOQ	ug/L	
2433MOU2014F	1,1-DICHLOROETHANE	J	0.38	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.46	0.50	LOQ	ug/L	
	CIS-1,2-DICHLOROETHENE	J	0.35	0.50	LOQ	ug/L	
2433MOU2015F	1,2-DICHLOROETHANE	J	0.30	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.36	0.50	LOQ	ug/L	
	VINYL CHLORIDE	J	0.099	0.10	LOQ	ug/L	
2433MOU2030F	CIS-1,2-DICHLOROETHENE	J	0.14	0.50	LOQ	ug/L	J (all detects)
2433MOU2031F	CIS-1,2-DICHLOROETHENE	J	0.12	0.50	LOQ	ug/L	J (all detects)

LDC #: 59573A1b **VALIDATION COMPLETENESS WORKSHEET** Date: 8/3/24
SDG #: FC17979 ADR/Stage 4 Page: 1 of 2
Laboratory: SGS North America, Inc., Orlando, FL Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 15% or r² ≥ 0.99 ICV ≤ ±30%
IV.	Continuing calibration	A/A	%D ≤ 20/30%
V.	Laboratory Blanks	A	
VI.	Field blanks	ND	TB=1
VII.	Surrogate spikes	A/A	#9↑ =ND
VIII.	Matrix spike/Matrix spike duplicates	A	
IX.	Laboratory control samples	A	LCS
X.	Field duplicates	A/A	D=5+6*, 14+15 - ADR (1x)
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Reviewed for Stage 4 validation
XIII.	Target analyte identification	A	Reviewed for Stage 4 validation MI
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; * ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

** Indicates sample underwent Stage 4 validation

	Client ID	Lab ID	Matrix	Date
1	2433M0BW051A	FC17979-1	Water	08/13/24
2	2433MOU2030F	FC17979-2	Water	08/13/24
3	2433MOU2031F	FC17979-3	Water	08/13/24
4	2433MOU2032F	FC17979-4	Water	08/13/24
5	2433MOU2033F	FC17979-5	Water	08/13/24
6	2433MOU2034D	FC17979-6	Water	08/13/24
7	2433MOU2035F	FC17979-7	Water	08/13/24
8	2433MOU2036F	FC17979-8	Water	08/13/24
9	2433MOU2037F	FC17979-9	Water	08/13/24
10	2433MOU2004F	FC17979-10	Water	08/13/24
11	2433MOU2005F	FC17979-11	Water	08/13/24
12	2433MOU2006F	FC17979-12	Water	08/13/24
13	2433MOU2007F**	FC17979-13**	Water	08/13/24
14	2433MOU2008F	FC17979-14	Water	08/13/24
15	2433MOU2009D	FC17979-15	Water	08/13/24

LDC #: 59573A1b **VALIDATION COMPLETENESS WORKSHEET** Date: 8/23/24
SDG #: FC17979 ADR/Stage 4 Page: 2 of 2
Laboratory: SGS North America, Inc., Orlando, FL Reviewer: [illegible]
2nd Reviewer:

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D-SIM)

	Client ID	Lab ID	Matrix	Date
16	2433MOU2010F	FC17979-16	Water	08/13/24
17	2433MOU2012F**	FC17979-17**	Water	08/13/24
18	2433MOU2011F	FC17979-18	Water	08/13/24
19	2433MOU2013F**	FC17979-19**	Water	08/13/24
20	2433MOU2014F	FC17979-20	Water	08/13/24
21	2433MOU2015F	FC17979-21	Water	08/13/24
22	2433MOU2012FMS	FC17979-17MS	Water	08/13/24
23	2433MOU2012FMSD	FC17979-17MSD	Water	08/13/24
24				
25				
26				

Notes:

	V230TF						
	V230T9						
	V230T8						

LDC #: 59573A16 **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: 9

Method: Volatiles (EPA SW 846 Method 8260B-SIM)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check (Not required)				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 15% and relative response factors (RRF) ≥ 0.05??	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent difference (%D) ≤20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) ≥ 0.05?		✓		
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?		✓		
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?	✓			
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target analytes detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations performed and found acceptable?	✓			
Did the lab provide before and after printouts?	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET ANALYTE LIST

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n-Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 39ESA1b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: QA

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: <20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	8/20/14	ZT6485	O	21.3		13,15-16 MB (ND)	V+ detects/A

Note: * = Ave RRF failed method criteria but within validation criteria

LDC #: 59573A1b

Validation Findings Worksheet
Initial Calibration Calculation Verification

Method: GC/MS VOCs

Date	Instrument	Compound	Level	(Y) Response	(X) Conc.	(X^2) Conc.
8/15/2024	Z	Trichloroethene	1	0.0163949	0.020	0.0004
			2	0.0496688	0.100	0.0100
			3	0.1858337	0.400	0.1600
			4	0.4242920	1.000	1.0000
			5	0.8636232	2.000	4.0000
			6	1.2696483	3.000	9.0000
			7	1.6883226	4.000	16.0000

Regression Output

			Reported
Constant	c =	0.0000	0
Std Err of Y Est			
R Squared		0.9999297	0.9999
Degrees of Freedom			
	B =	A =	B=
X Coefficient(s)	4.36375E-01	-3.7196E-03	0.43638
Std Err of Coef.			A=
			-0.00372
Correlation Coefficient		0.999965	
Coefficient of Determination (r^2)	r^ 2	0.999930	1

Method: VOCs

Calibration Date	Analyte	Standard	(X) Concentration	(Y) Area
8/15/2024	Tetrachloroethene	1	0.020	0.0263223
		2	0.100	0.0683616
		3	0.400	0.2456113
		4	1.000	0.5300022
		5	2.000	1.0442947
		6	3.000	1.5602560
		7	4.000	2.0961064

Linear through the origin

	calculated	***Reported***
Constant	*0.000000*	0.0000
X Coefficient(s)	*0.52334050*	0.523340
Correlation Coefficient	*0.999880*	
Coefficient of Determination (r^2)	*0.999761*	0.999800

LDC #: 52853A1b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B_SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	ZT6456	8/9/24	S (1st internal standard)	10.0	10.863	10.863	8.6	8.6
			AA (2nd internal standard)	↓	10.153	10.153	1.5	1.5
			(3rd internal standard)					
			(4th internal standard)					
2	ZT6485	8/20/24	S (1st internal standard)	10.0	11.168	11.168	11.7	11.7
			AA (2nd internal standard)	↓	10.080	10.080	0.8	0.8
			(3rd internal standard)					
			(4th internal standard)					
3			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39573A1b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 13

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	5.0	5.31	106	106	
Toluene-d8	V	4.85	97	97	
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 39873A1b

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 22/23

Compound	Spike Added (ug/L)		Sample Concentration (ug/L)	Spiked Sample Concentration (ug/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
V	25	25	ND	27.9	28.3	112	112	113	113	1	1
S	↓	↓	3.7	32.4	31.7	115	115	112	112	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 39573A16

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: _____

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: V230T9-BS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
✓	5	NA	5.9	NA	118	118				
5	↓	↓	6.0	↓	120	120				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #5983A6

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 17, AA:

Conc. = $\frac{(1914)(5.0)(1)}{(11879)(0.5334)(\quad)(\quad)}$

= 1.55 ug/L

#	Sample ID	Compound	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Qualification
	17	AA	1.5	1.5	

Quality Control
Outlier Reports

FC17980

Field Duplicate RPD Report

Lab Reporting Batch ID: FC17980 **Laboratory: ACTO**

EDD Filename: FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2433MOU2042F	2433MOU2043D			
BENZENE	0.12	0.12	0	30.00	
CARBON TETRACHLORIDE	1.3	1.2	8	30.00	No Qualifiers Applied
CHLOROFORM	0.25	0.24	4	30.00	

Project Name and Number: - Fort Ord Groundwater Monitoring

LDC #: 59573B1b **VALIDATION COMPLETENESS WORKSHEET** Date: 8/23/24
SDG #: FC17980 ADR Page: 1 of 1
Laboratory: SGS North America, Inc., Orlando, FL Reviewer: 9
2nd Reviewer: JC

METHOD: GC/MS Volatiles (EPA SW-846 Method 8260D-SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A	
II.	GC/MS Instrument performance check	A	
III.	Initial calibration/ICV	A/A	RSD ≤ 15% . r² ICV ≤ 20%
IV.	Continuing calibration	A	%D ≤ 20/50%
V.	Laboratory Blanks	N	Not reviewed for ADR validation
VI.	Field blanks	N	FB = 1
VII.	Surrogate spikes	N	Not reviewed for ADR validation
VIII.	Matrix spike/Matrix spike duplicates	N	Not reviewed for ADR validation
IX.	Laboratory control samples	N	Not reviewed for ADR validation
X.	Field duplicates	SW	D = 5+6 - ADR (NR)
XI.	Internal standards	A	
XII.	Target analyte quantitation	N	Not reviewed for ADR validation
XIII.	Target analyte identification	N	Not reviewed for ADR validation
XIV.	Overall assessment of data	A	

Note: A = Acceptable
N = Not provided/applicable
SW = See worksheet
ND = No compounds detected
R = Rinsate
FB = Field blank
D = Duplicate
TB = Trip blank
EB = Equipment blank
SB=Source blank
OTHER:

	Client ID	Lab ID	Matrix	Date
1	2433MOU2038F	FC17980-1	Water	08/13/24
2	2433MOU2039F	FC17980-2	Water	08/13/24
3	2433MOU2040F	FC17980-3	Water	08/13/24
4	2433MOU2041F	FC17980-4	Water	08/13/24
5	2433MOU2042F	FC17980-5	Water	08/13/24
6	2433MOU2043D	FC17980-6	Water	08/13/24
7	2433MOU2044F	FC17980-7	Water	08/13/24
8	2433MOU2045F	FC17980-8	Water	08/13/24
9	2433MOU2046F	FC17980-9	Water	08/13/24
10	2433MOU2047F	FC17980-10	Water	08/13/24
11	2433M0BW053C	FC17980-11	Water	08/13/24
12				
13				
14				
15				

Reporting Limit Outliers

Lab Reporting Batch ID: FC17980 **Laboratory: ACTO**

EDD Filename: FC17980ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2433MOU2038F	BENZENE CHLOROFORM	J J	0.14 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2039F	BENZENE CHLOROFORM	J J	0.13 0.26	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2040F	BENZENE CHLOROFORM	J J	0.13 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2041F	BENZENE CHLOROFORM	J J	0.13 0.25	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2042F	BENZENE CHLOROFORM	J J	0.12 0.25	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2043D	BENZENE CHLOROFORM	J J	0.12 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2044F	BENZENE CHLOROFORM	J J	0.12 0.25	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2045F	BENZENE CHLOROFORM	J J	0.13 0.25	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2046F	BENZENE CHLOROFORM	J J	0.15 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2433MOU2047F	BENZENE CHLOROFORM	J J	0.19 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AHTNA
296 12th Street
Marina, CA 93933
ATTN: Mr. Eric A. Schmidt
eschmidt@ahtna.net

January 17, 2025

SUBJECT: Fort Ord, OU2 Landfill - Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. These SDGs were received on December 18, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #60301:

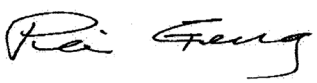
SDG #	Fraction
FC19741, FC20415, FC20655, FC20704, FC20753, FC20753, FC20800, FC21035, FC21036, FC21037, FC21167	Volatiles

The data validation was performed under Stage 2B & 4 guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022)
- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021)
- U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,



Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

LDC #60301 (Ahtna Engineering Services, LLC. - Marina, CA / Fort Ord, OU2)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	(11) VOCs (8260D-SIM)
Matrix Type:					Water
A	FC19741	12/18/24	1/10/25	ADR	2
B	FC20415	12/18/24	1/10/25	ADR	6
C	FC20655	12/18/24	1/10/25	ADR	3
D	FC20704	12/18/24	1/10/25	ADR	23
E	FC20753	12/18/24	1/10/25	ADR	16
E	FC20753	12/18/24	1/10/25	Stage 4	8
F	FC20800	12/18/24	1/10/25	ADR	5
G	FC21035	12/18/24	1/10/25	ADR	1
H	FC21036	12/18/24	1/10/25	ADR	5
I	FC21037	12/18/24	1/10/25	ADR	3
J	FC21167	12/18/24	1/10/25	ADR	4
Total			PM: PG		**76**

ADR

These sample counts do not include MS/MSD, and DUPs.

LDC Report# 60301

Automated Data Review Data Validation Report
Fort Ord, OU2 Landfill

Sample Delivery Group(s)

FC19741
FC20415
FC20655
FC20704
FC20753
FC20800
FC21035
FC21036
FC21037
FC21167

January 17, 2025

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples collected during the October through December 2024 sampling period. Data validation was performed in accordance with the Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021), and the U.S. DoD Data Validation Guidelines Module 1: Data Validation Procedure for Organic Analysis by GC/MS (May 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method(s):

Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) SW 846 Method 8260D in Selected Ion Monitoring (SIM) mode

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2B data validation, which comprises an evaluation of quality control (QC) summary results. Approximately 10 percent of samples were subjected to Stage 4 data validation, which is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers utilized during data validation:

J+ The result was an estimated quantity, but the result may be biased high.

J- The result was an estimated quantity, but the result may be biased low.

J The reported result was an estimated quantity value with an unknown bias.

U The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

N The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification".

NJ The analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.

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. Acceptance or rejection of the data should be decided by the project team (which should include a Project Chemist), but exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

GC/MS Instrument Performance Check

A bromofluorobenzene (BFB) tune was performed at 12 hour intervals.

All ion abundance requirements were met.

Initial Calibration and Initial Calibration Verification

An initial calibration was performed as required by the method.

For analytes where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 15.0%.

In the case where the laboratory used a calibration curve to evaluate the analytes, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes with the following exceptions:

SDG	Date	Analyte	%D	Associated Samples	Flag
FC21035	12/10/24	Methylene chloride	54.1	All samples in SDG FC21035	NA
FC21036	12/10/24	Methylene chloride	54.1	2449YOU2203A 2449YOU2204C	NA
FC21037	12/10/24	Methylene chloride	54.1	All samples in SDG FC21037	NA

Continuing Calibration

Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes with the following exceptions:

SDG	Date	Analyte	%D	Associated Samples	Flag
FC19741	10/23/24	Vinyl chloride	20.7	All samples in SDG FC19741	NA
FC19741	10/23/24	Methylene chloride	79.8	All samples in SDG FC19741	UJ (all non-detects)
FC20655	11/22/24	Carbon tetrachloride Tetrachloroethene	27.5 21.6	All samples in SDG FC20655	NA
FC20704	11/25/24	Carbon tetrachloride	29.5	2447YOU2062F 2447YOU2063F 2447YOU2069F 2447YOU2066F 2447YOU2085F 244Y7OU2183C	NA

The percent differences (%D) of the ending continuing calibration verifications (CCVs) were less than or equal to 50.0% for all analytes with the following exceptions:

SDG	Date	Analyte	%D	Associated Samples	Flag
FC19741	10/23/24	Methylene chloride	79.9	All samples in SDG FC19741	UJ (all non-detects)
FC21036	12/16/24	Methylene chloride	72.9	2449YOU2058F 2449YOU2145D 2449YOU2088F	NA
FC21167	12/16/24	Methylene chloride	72.9	All samples in SDG FC21167	NA

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Laboratory Blanks

Laboratory blanks were performed as required by the method. No contaminant concentrations were detected in the laboratory blanks with the exception of three blanks for methylene chloride. The associated sample results were not detected or were significantly greater than the concentrations found in the associated blanks were not qualified. The details regarding the qualification of data are presented in Enclosure I.

Field Blanks

Seven trip blanks were collected and analyzed. No contaminants were found.

Five field blanks were collected and analyzed. No contaminants were found.

Surrogate Spikes

Surrogates were added to all samples and blanks as required by the method. All surrogate recoveries (%R) were within QC limits with the exception of six samples. The associated sample results were qualified as detected estimated (J+) as applicable. No data were qualified due to high %Rs when the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Matrix Spike/Matrix Spike Duplicates

Matrix spike (MS) and matrix spike duplicate (MSD) sample analysis was performed on an associated project sample. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the exception of five MS/MSD pairs for several analytes. The associated sample results were qualified as detected estimated (J+) as applicable. No data were qualified due to high %Rs when the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the method. Percent recoveries (%R) were within QC limits with the exception of two LCS for methylene chloride. The associated sample results were qualified as detected estimated (J+/J-) or non-detected estimated (UJ) as applicable. No data were qualified due to high %Rs when the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Field Duplicates

Eight field duplicate pairs were collected and analyzed. All RPDs and absolute differences were within QC limits with the exception of one duplicate pair for methylene chloride and one duplicate pair for chloroform. No data were qualified on the basis of field duplicate RPDs outside the QC limits. The field duplicate result comparisons are presented in Enclosure I.

Internal Standards

All internal standard areas and retention times were within QC limits.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All analytes reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

Target Analyte Identification

All target analyte identifications met validation criteria for samples which underwent Stage 4 validation. Raw data were not reviewed for Stage 2B validation.

Manual integrations were reviewed and were considered acceptable. The laboratory provided before and after integration printouts.

Overall Assessment of Data

The analysis was conducted within all specifications of the method. No results were recommended for exclusion in these SDGs.

Due to continuing calibration %D, data were qualified as estimated in two samples.

Due to ending CCV %D, data were qualified as estimated in two samples.

Due to surrogate %R, data were qualified as estimated in one sample.

Due to MS/MSD %R, data were qualified as estimated in two samples.

Due to LCS %R, data were qualified as estimated in two samples.

Due to results below the LOQ, data were qualified as estimated in fifty-three samples.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
21-Oct-2024	2444MOU2135A	FC19741-1	TB	5030B	EPA8260-SIM	Stage 2B
21-Oct-2024	2444MOU2136F	FC19741-2	N	5030B	EPA8260-SIM	Stage 2B
13-Nov-2024	2446MOU2028A	FC20415-1	TB	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2018F	FC20415-2	N	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2019F	FC20415-3	N	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2019FMS	FC20415-3MS	MS	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2019FMSD	FC20415-3MSD	MSD	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2020F	FC20415-4	N	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2025F	FC20415-5	N	5030B	W846 8260D BY SI	Stage 2B
13-Nov-2024	2446MOU2026F	FC20415-6	N	5030B	W846 8260D BY SI	Stage 2B
18-Nov-2024	2447Y212177A	FC20655-1	TB	5030B	W846 8260D BY SI	Stage 2B
18-Nov-2024	2447Y212182C	FC20655-2	FB	5030B	W846 8260D BY SI	Stage 2B
18-Nov-2024	2447YOU2064F	FC20655-3	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2178A	FC20704-1	TB	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2090F	FC20704-2	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2150D	FC20704-3	FD	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2059F	FC20704-4	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2146D	FC20704-5	FD	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2086F	FC20704-6	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2089F	FC20704-7	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2095F	FC20704-8	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2151D	FC20704-9	FD	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2068F	FC20704-10	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2084F	FC20704-11	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2075F	FC20704-12	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2094F	FC20704-13	N	5030B	W846 8260D BY SI	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
19-Nov-2024	2447YOU2076F	FC20704-14	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2061F	FC20704-15	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2147D	FC20704-16	FD	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2100F	FC20704-17	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2062F	FC20704-18	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2063F	FC20704-19	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2069F	FC20704-20	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2069FMS	FC20704-20MS	MS	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2069FMSD	FC20704-20MSD	MSD	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2066F	FC20704-21	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2085F	FC20704-22	N	5030B	W846 8260D BY SI	Stage 2B
19-Nov-2024	2447YOU2183C	FC20704-23	FB	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2046F	FC20753-1	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2079F	FC20753-2	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2079FMS	FC20753-2MS	MS	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2079FMSD	FC20753-2MSD	MSD	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2073F	FC20753-3	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2072F	FC20753-4	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2071F	FC20753-5	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2087F	FC20753-6	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2080F	FC20753-7	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2081F	FC20753-8	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2184C	FC20753-9	FB	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2184CMS	FC20753-9MS	MS	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2184CMSD	FC20753-9MSD	MSD	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2077F	FC20753-10	N	5030B	W846 8260D BY SI	Stage 4

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
20-Nov-2024	2447YOU2149D	FC20753-11	FD	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2078F	FC20753-12	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2091F	FC20753-13	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2099F	FC20753-14	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2092F	FC20753-15	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2065F	FC20753-16	N	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2065FMS	FC20753-16MS	MS	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2065FMSD	FC20753-16MSD	MSD	5030B	W846 8260D BY SI	Stage 4
20-Nov-2024	2447YOU2070F	FC20753-17	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2148D	FC20753-18	FD	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2096F	FC20753-19	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2097F	FC20753-20	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2082F	FC20753-21	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2060F	FC20753-22	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2056F	FC20753-23	N	5030B	W846 8260D BY SI	Stage 2B
20-Nov-2024	2447YOU2055F	FC20753-24	N	5030B	W846 8260D BY SI	Stage 2B
21-Nov-2024	2447YOU2083F	FC20800-1	N	5030B	W846 8260D BY SI	Stage 2B
21-Nov-2024	2447YOU2067F	FC20800-2	N	5030B	W846 8260D BY SI	Stage 2B
21-Nov-2024	2447YOU2044F	FC20800-3	N	5030B	W846 8260D BY SI	Stage 2B
22-Nov-2024	2447X0BW025F	FC20800-4	N	5030B	W846 8260D BY SI	Stage 2B
22-Nov-2024	2447XOU2020F	FC20800-5	N	5030B	W846 8260D BY SI	Stage 2B
02-Dec-2024	2449YOU2202A	FC21037-1	TB	5030B	W846 8260D BY SI	Stage 2B
02-Dec-2024	2449MOU2022F	FC21035-1	N	5030B	W846 8260D BY SI	Stage 2B
02-Dec-2024	2449YOU2186C	FC21037-2	FB	5030B	W846 8260D BY SI	Stage 2B
02-Dec-2024	2449YOU2074F	FC21037-3	N	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2203A	FC21036-1	TB	5030B	W846 8260D BY SI	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
04-Dec-2024	2449YOU2204C	FC21036-2	FB	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2058F	FC21036-3	N	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2058FMS	FC21036-3MS	MS	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2058FMSD	FC21036-3MSD	MSD	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2145D	FC21036-4	FD	5030B	W846 8260D BY SI	Stage 2B
04-Dec-2024	2449YOU2088F	FC21036-5	N	5030B	W846 8260D BY SI	Stage 2B
11-Dec-2024	2450MOU2029A	FC21167-1	TB	5030B	W846 8260D BY SI	Stage 2B
11-Dec-2024	2450MOU2021F	FC21167-2	N	5030B	W846 8260D BY SI	Stage 2B
11-Dec-2024	2450MOU2023F	FC21167-3	N	5030B	W846 8260D BY SI	Stage 2B
11-Dec-2024	2450MOU2024D	FC21167-4	FD	5030B	W846 8260D BY SI	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC19741

Method Category: VOA

Method: EPA8260-SIM **Matrix:** AQ

Sample ID: 2444MOU2135A **Collected:** 10/21/2024 12:01:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.0	U	0.50	LOD	2.0	LOQ	ug/L	UJ	Lcs, Ccv

Sample ID: 2444MOU2136F **Collected:** 10/21/2024 12:01:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
METHYLENE CHLORIDE	2.0	U	0.50	LOD	2.0	LOQ	ug/L	UJ	Lcs, Ccv

SDG: FC20415

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2446MOU2018F **Collected:** 11/13/2024 9:08:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2446MOU2019F **Collected:** 11/13/2024 9:18:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.26	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.69		0.25	LOD	0.50	LOQ	ug/L	J+	Ms
TETRACHLOROETHYLENE	0.47	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20415

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2446MOU2020F **Collected:** 11/13/2024 9:34:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROPROPANE	0.40	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2446MOU2025F **Collected:** 11/13/2024 10:01:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC20655

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2447YOU2064F **Collected:** 11/18/2024 3:40:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROPROPANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
1,2-DICHLOROETHANE	0.48	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC20704

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2447YOU2059F **Collected:** 11/19/2024 7:44:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20704

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2061F ***Collected:*** 11/19/2024 1:42:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2062F ***Collected:*** 11/19/2024 2:16:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2063F ***Collected:*** 11/19/2024 2:40:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2066F ***Collected:*** 11/19/2024 3:05:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.26	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2068F ***Collected:*** 11/19/2024 11:04:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2069F ***Collected:*** 11/19/2024 2:50:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.34	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20704

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2447YOU2075F **Collected:** 11/19/2024 12:40:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.46	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2076F **Collected:** 11/19/2024 1:23:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.24	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2084F **Collected:** 11/19/2024 11:34:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2086F **Collected:** 11/19/2024 8:03:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CARBON TETRACHLORIDE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.37	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2089F **Collected:** 11/19/2024 8:35:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.21	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
BENZENE	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.39	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20704

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2090F ***Collected:*** 11/19/2024 7:26:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.47	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2094F ***Collected:*** 11/19/2024 12:52:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2095F ***Collected:*** 11/19/2024 8:50:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.26	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.13	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.27	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2100F ***Collected:*** 11/19/2024 1:54:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2146D ***Collected:*** 11/19/2024 7:49:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20704

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2147D ***Collected:*** 11/19/2024 1:47:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.21	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2150D ***Collected:*** 11/19/2024 7:31:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.49	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.30	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2151D ***Collected:*** 11/19/2024 8:55:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.26	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.27	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC20753

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2046F ***Collected:*** 11/20/2024 7:58:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2055F ***Collected:*** 11/20/2024 2:22:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20753

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2055F ***Collected:*** 11/20/2024 2:22:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.40	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2056F ***Collected:*** 11/20/2024 2:13:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.35	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2060F ***Collected:*** 11/20/2024 1:47:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.12	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2065F ***Collected:*** 11/20/2024 12:25:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
BENZENE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2070F ***Collected:*** 11/20/2024 12:36:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.40	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20753

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2071F ***Collected:*** 11/20/2024 9:22:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2072F ***Collected:*** 11/20/2024 8:58:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.23	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2073F ***Collected:*** 11/20/2024 8:49:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.39	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2077F ***Collected:*** 11/20/2024 11:30:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.28	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2078F ***Collected:*** 11/20/2024 11:41:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CHLOROFORM	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20753

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447YOU2079F ***Collected:*** 11/20/2024 8:21:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.40	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2080F ***Collected:*** 11/20/2024 10:22:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.33	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.14	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2091F ***Collected:*** 11/20/2024 11:54:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
1,2-DICHLOROPROPANE	0.36	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.29	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2092F ***Collected:*** 11/20/2024 12:15:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2096F ***Collected:*** 11/20/2024 1:11:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.35	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20753

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2447YOU2097F **Collected:** 11/20/2024 1:20:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROPROPANE	0.10	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2099F **Collected:** 11/20/2024 12:05:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.48	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
1,2-DICHLOROPROPANE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2148D **Collected:** 11/20/2024 12:41:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROETHANE	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.31	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
Trichloroethylene	0.41	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2149D **Collected:** 11/20/2024 11:35:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.25	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC20800

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2447X0BW025F **Collected:** 11/22/2024 8:25:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
TETRACHLOROETHYLENE	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC20800

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2447X0BW025F ***Collected:*** 11/22/2024 8:25:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.16	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2044F ***Collected:*** 11/21/2024 8:40:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.32	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
TETRACHLOROETHYLENE	0.11	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2067F ***Collected:*** 11/21/2024 8:26:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2447YOU2083F ***Collected:*** 11/21/2024 7:56:00 AM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CIS-1,2-DICHLOROETHENE	0.38	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

SDG: FC21036

Method Category: VOA

Method: SW846 8260D BY SIM ***Matrix:*** AQ

Sample ID: 2449YOU2058F ***Collected:*** 12/4/2024 12:02:00 PM ***Analysis Type:*** 1RES ***Dilution:*** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
Trichloroethylene	1.1		0.25	LOD	0.50	LOQ	ug/L	J+	Ms

SDG: FC21037

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

SDG: FC21037

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2449YOU2074F **Collected:** 12/2/2024 2:23:00 PM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,1-DICHLOROETHANE	0.17	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
CHLOROFORM	0.20	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
TETRACHLOROETHYLENE	0.22	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr
Trichloroethylene	1.1		0.25	LOD	0.50	LOQ	ug/L	J+	Surr
CIS-1,2-DICHLOROETHENE	0.18	J	0.25	LOD	0.50	LOQ	ug/L	J	RI, Surr

SDG: FC21167

Method Category: VOA

Method: SW846 8260D BY SIM **Matrix:** AQ

Sample ID: 2450MOU2021F **Collected:** 12/11/2024 10:24:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.19	J	0.25	LOD	0.50	LOQ	ug/L	J	RI
CIS-1,2-DICHLOROETHENE	0.15	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2450MOU2023F **Collected:** 12/11/2024 10:45:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.35	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: 2450MOU2024D **Collected:** 12/11/2024 10:47:00 AM **Analysis Type:** 1RES **Dilution:** 1.00

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
CHLOROFORM	0.37	J	0.25	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Data Qualifier Summary

Lab Reporting Batch ID: FC19741, FC20415, FC20655,

Laboratory: ACTO

EDD Filename: FC19741ACTO, FC20415ACTO, FC20655ACTO, FC20704ACTO, FC20753ACTO, FC20800ACTO, FC21035ACTO, FC21036ACTO, FC21037ACTO, FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

Reason Code Legend

Reason Code	*Description*
Ccv	Continuing Calibration Verification Percent Difference Lower Estimation
Lcs	Laboratory Control Spike Lower Estimation
Lcs	Laboratory Control Spike Upper Estimation
Mb	Method Blank Contamination
Ms	Matrix Spike Upper Estimation
RI	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: - Fort Ord Groundwater Monitoring

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

FC19741

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC19741 **Laboratory: ACTO**

EDD Filename: FC19741ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **EPA8260-SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
VZ3102-BS (2444MOU2135A 2444MOU2136F)	METHYLENE CHLORIDE	20	-	74.00-124.00	-	METHYLENE CHLORIDE	J- (all detects) UJ (all non-detects)

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301A
SDG #: FC19741
Laboratory: SGS North America, Inc., Orlando, FL

Method: Volatiles (EPA 8260D SIM)

Date: 1/6/2025
Page: 1
Reviewer: [signature]
2nd Reviewer: [signature]

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/~~AA~~	RSD≤15%, r^2 ≥0.99
IV	Continuing calibration	SW	D≤20/30%
V	Laboratory Blanks	N	
VI	Field blanks	N	TB=1
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	CS
IX	Laboratory control samples	N	↓
X	Field duplicates	N	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2444MOU2135A	FC19741-1	TB	Water	10/21/2024	ADR
2	2444MOU2136F	FC19741-2		Water	10/21/2024	ADR

Notes:

V23102		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n–Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2. Methyl bromide
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2. Methyl chloride
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2. Methyl iodide
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylene	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2. Methylene bromide
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 60304A

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	10/31/24	Z76948	C	20.7		All (ND)	J+ det's/A
			E	19.8			J-/UJ/A
	10/31/24	Z76958 (Ending)	E	19.9		All (ND)	J-/UJ/A

Note: * = Ave RRF failed method criteria but within validation criteria

Quality Control
Outlier Reports

FC20415

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC20415

Laboratory: ACTO

EDD Filename: FC20415ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
2446MOU2019FMS 2446MOU2019FMSD (2446MOU2019F)	1,1-DICHLOROETHANE	124	-	81.00-122.00	-	1,1-DICHLOROETHANE	J+ (all detects)
	1,2-DICHLOROETHANE	132	130	75.00-125.00	-	1,2-DICHLOROETHANE	
	1,2-DICHLOROPROPANE	125	-	76.00-124.00	-	1,2-DICHLOROPROPANE	
	CIS-1,2-DICHLOROETHENE	121	-	78.00-120.00	-	CIS-1,2-DICHLOROETHENE	
	METHYLENE CHLORIDE	158	161	69.00-135.00	-	METHYLENE CHLORIDE	

Project Name and Number: - Fort Ord Groundwater Monitoring

Reporting Limit Outliers

Lab Reporting Batch ID: FC20415 **Laboratory: ACTO**

EDD Filename: FC20415ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2446MOU2018F	CHLOROFORM	J	0.18	0.50	LOQ	ug/L	J (all detects)
	CIS-1,2-DICHLOROETHENE	J	0.19	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.17	0.50	LOQ	ug/L	
2446MOU2019F	CHLOROFORM	J	0.26	0.50	LOQ	ug/L	J (all detects)
	TETRACHLOROETHYLENE	J	0.47	0.50	LOQ	ug/L	
2446MOU2020F	1,2-DICHLOROPROPANE	J	0.40	0.50	LOQ	ug/L	J (all detects)
	BENZENE	J	0.13	0.50	LOQ	ug/L	
	CHLOROFORM	J	0.19	0.50	LOQ	ug/L	
2446MOU2025F	1,1-DICHLOROETHANE	J	0.15	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.38	0.50	LOQ	ug/L	

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301B
SDG #: FC20415
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer:
2nd Reviewer:

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD≤15% or r²≥0.99 %D≤20%
IV	Continuing calibration	A	%D≤20/30%
V	Laboratory Blanks	N	
VI	Field blanks	N	TB=1
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	↑
IX	Laboratory control samples	N	LCS
X	Field duplicates	N	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2446MOU2028A	FC20415-1	TB	Water	11/13/2024	ADR
2	2446MOU2018F	FC20415-2		Water	11/13/2024	ADR
3	2446MOU2019F	FC20415-3		Water	11/13/2024	ADR
4	2446MOU2020F	FC20415-4		Water	11/13/2024	ADR
5	2446MOU2025F	FC20415-5		Water	11/13/2024	ADR
6	2446MOU2026F	FC20415-6		Water	11/13/2024	ADR
7	2446MOU2019FMS	FC20415-3MS	MS	Water	11/13/2024	ADR
8	2446MOU2019FMSD	FC20415-3MSD	MSD	Water	11/13/2024	ADR

Notes:

VN6736		
V23110		

Quality Control
Outlier Reports

FC20655

Method Blank Outlier Report

Lab Reporting Batch ID: FC20655 **Laboratory: ACTO**

EDD Filename: FC20655ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VZ3111-MB	11/22/2024 1:35:00 PM	METHYLENE CHLORIDE	0.50 ug/L	2447Y212177A 2447Y212182C 2447YOU2064F

Reporting Limit Outliers

Lab Reporting Batch ID: FC20655

Laboratory: ACTO

EDD Filename: FC20655ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2447YOU2064F	1,2-DICHLOROETHANE	J	0.48	0.50	LOQ	ug/L	J (all detects)
	1,2-DICHLOROPROPANE	J	0.11	0.50	LOQ	ug/L	

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301C
SDG #: FC20655
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer:
2nd Reviewer:

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD ≤ 15% r² ≥ 0.99
IV	Continuing calibration / Endcal	SW	D ≤ 20/50%
V	Laboratory Blanks	N	E = data
VI	Field blanks	N	TB=1 FB=2
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	
IX	Laboratory control samples	N	LCS
X	Field duplicates	N	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2447Y212177A	FC20655-1	TB	Water	11/18/2024	ADR
2	2447Y212182C	FC20655-2	FB	Water	11/18/2024	ADR
3	2447YOU2064F	FC20655-3		Water	11/18/2024	ADR

Notes:

R3111		

TARGET ANALYTE LIST

METHOD: GC/MS SVOC

A. Phenol	GG. Acenaphthene	MMM. Bis(2-Chloroisopropyl)ether	SSSS. 2/3-Dimethyldibenzothiophene	Y1. 3,3'-Dimethylbenzidine
B. Bis (2-chloroethyl) ether	HH. 2,4-Dinitrophenol	NNN. Aniline	TTTT. 1-Methyldibenzothiophene	Z1. o-Toluidine
C. 2-Chlorophenol	II. 4-Nitrophenol	OOO. N-Nitrosodimethylamine	UUUU.. 2,3,4,6-Tetrachlorophenol	A2. Benzo(j)fluoranthene
D. 1,3-Dichlorobenzene	JJ. Dibenzofuran	PPP. Benzoic Acid	VVVV. 1,2,4,5-Tetrachlorobenzene	B2. Benzofluoranthenes, total
E. 1,4-Dichlorobenzene	KK. 2,4-Dinitrotoluene	QQQ. Benzyl alcohol	WWWW.. 2-Picoline	C2. trans-Decalin
F. 1,2-Dichlorobenzene	LL. Diethylphthalate	RRR. Pyridine	XXXX. 3-Methylcholanthrene	D2. cis-Decalin
G. 2-Methylphenol	MM. 4-Chlorophenyl-phenyl ether	SSS. Benzidine	YYYY. a,a-Dimethylphenethylamine	E2. Dibenzo(a)anthracenes
H. 2,2'-Oxybis(1-chloropropane)	NN. Fluorene	TTT. 1-Methylnaphthalene	ZZZZ. Hexachloropropene	F2. Benzo(j)+(k)fluoranthene
I. 4-Methylphenol	OO. 4-Nitroaniline	UUU.Benzo(b)thiophene	A1. N-Nitrosodiethylamine	G2.
J. N-Nitroso-di-n-propylamine	PP. 4,6-Dinitro-2-methylphenol	VVV.Benzonaphthothiophene	B1. N-Nitrosodi-n-butylamine	H2.
K. Hexachloroethane	QQ. N-Nitrosodiphenylamine	WWW.Benzo(e)pyrene	C1. N-Nitrosomethylethylamine	I2.
L. Nitrobenzene	RR. 4-Bromophenyl-phenylether	XXX. 2,6-Dimethylnaphthalene	D1. N-Nitrosomorpholine	J2.
M. Isophorone	SS. Hexachlorobenzene	YYY. 2,3,5-Trimethylnaphthalene	E1. N-Nitrosopyrrolidine	K2.
N. 2-Nitrophenol	TT. Pentachlorophenol	ZZZ. Perylene	F1. Phenacetin	L2.
O. 2,4-Dimethylphenol	UU. Phenanthrene	AAAA. Dibenzothiophene	G1. 2-Acetylaminofluorene	M2.
P. Bis(2-chloroethoxy)methane	VV. Anthracene	BBBB. Benzo(a)fluoranthene	H1. Pronamide	N2.
Q. 2,4-Dichlorophenol	WW. Carbazole	CCCC. Benzo(b)fluorene	I1. Methyl methanesulfonate	O2.
R. 1,2,4-Trichlorobenzene	XX. Di-n-butylphthalate	DDDD. cis/trans-Decalin	J1. Ethyl methanesulfonate	P2.
S. Naphthalene	YY. Fluoranthene	EEEE. Biphenyl	K1. o,o',o''-Triethylphosphorothioate	Q2.
T. 4-Chloroaniline	ZZ. Pyrene	FFFF. Retene	L1. n-Phenylene diamine	R2.
U. Hexachlorobutadiene	AAA. Butylbenzylphthalate	GGGG. C30-Hopane	M1. 1,4-Naphthoquinone	S2.
V. 4-Chloro-3-methylphenol	BBB. 3,3'-Dichlorobenzidine	HHHH. 1-Methylphenanthrene	N1. N-Nitro-o-toluidine	T2.
W. 2-Methylnaphthalene	CCC. Benzo(a)anthracene	IIII. 1,4-Dioxane	O1. 1,3,5-Trinitrobenzene	U2.
X. Hexachlorocyclopentadiene	DDD. Chrysene	JJJJ. Acetophenone	P1. Pentachlorobenzene	V2..
Y. 2,4,6-Trichlorophenol	EEE. Bis(2-ethylhexyl)phthalate	KKKK. Atrazine	Q1. 4-Aminobiphenyl	W2
Z. 2,4,5-Trichlorophenol	FFF. Di-n-octylphthalate	LLLL. Benzaldehyde	R1. 2-Naphthylamine	X2..
AA. 2-Chloronaphthalene	GGG. Benzo(b)fluoranthene	MMMM. Caprolactam	S1. Triphenylene	Y2.
BB. 2-Nitroaniline	HHH. Benzo(k)fluoranthene	NNNN. 2,6-Dichlorophenol	T1. Octachlorostyrene	Z2.
CC. Dimethylphthalate	III. Benzo(a)pyrene	OOOO. 1,2-Diphenylhydrazine	U1. Famphur	
DD. Acenaphthylene	JJJ. Indeno(1,2,3-cd)pyrene	PPPP. 3-Methylphenol	V1. 1,4-phenylenediamine	
EE. 2,6-Dinitrotoluene	KKK. Dibenz(a,h)anthracene	QQQQ. 3&4-Methylphenol	W1. Methapyrilene	
FF. 3-Nitroaniline	LLL. Benzo(g,h,i)perylene	RRRR. 4-Dimethyldibenzothiophene	X1. Pentachloroethane	

LDC #: 60301C

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: Q

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	11/22/24	ZT122	O	27.5		All (ND)	J+ (all detects)/A
			AA	21.6			

Note: * = Ave RRF failed method criteria but within validation criteria

Quality Control
Outlier Reports

FC20704

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC20704

Laboratory: ACTO

EDD Filename: FC20704ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
2447YOU2069FMS 2447YOU2069FMSD (2447YOU2069F)	CARBON TETRACHLORIDE METHYLENE CHLORIDE	145 138	- 139	76.00-136.00 69.00-135.00	- -	CARBON TETRACHLORIDE METHYLENE CHLORIDE	J+ (all detects)

Project Name and Number: - Fort Ord Groundwater Monitoring

Field Duplicate RPD Report

Lab Reporting Batch ID: FC20704 **Laboratory: ACTO**

EDD Filename: FC20704ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	Concentration (ug/L) 2447YOU2059F	Concentration (ug/L) 2447YOU2146D	Sample RPD	eQAPP RPD	Flag
1,1-DICHLOROETHANE	1.5	1.5	0	30.00	No Qualifiers Applied
1,2-DICHLOROETHANE	0.33	0.33	0	30.00	
CIS-1,2-DICHLOROETHENE	2.7	2.7	0	30.00	
TETRACHLOROETHYLENE	2.8	2.8	0	30.00	
Trichloroethylene	2.8	2.8	0	30.00	
VINYL CHLORIDE	3.6	3.6	0	30.00	

Analyte	Concentration (ug/L) 2447YOU2061F	Concentration (ug/L) 2447YOU2147D	Sample RPD	eQAPP RPD	Flag
1,1-DICHLOROETHANE	1.5	1.4	7	30.00	No Qualifiers Applied
CHLOROFORM	0.25	0.23	8	30.00	
CIS-1,2-DICHLOROETHENE	0.24	0.21	13	30.00	
METHYLENE CHLORIDE	2.0 U	3.4	200	30.00	
Trichloroethylene	1.4	1.3	7	30.00	

Analyte	Concentration (ug/L) 2447YOU2090F	Concentration (ug/L) 2447YOU2150D	Sample RPD	eQAPP RPD	Flag
1,2-DICHLOROETHANE	0.50	0.51	2	30.00	No Qualifiers Applied
CIS-1,2-DICHLOROETHENE	0.47	0.49	4	30.00	
TETRACHLOROETHYLENE	0.51	0.52	2	30.00	
Trichloroethylene	0.31	0.30	3	30.00	

Analyte	Concentration (ug/L) 2447YOU2095F	Concentration (ug/L) 2447YOU2151D	Sample RPD	eQAPP RPD	Flag
1,1-DICHLOROETHANE	0.26	0.26	0	30.00	No Qualifiers Applied
CHLOROFORM	0.13	0.50 U	200	30.00	
TETRACHLOROETHYLENE	2.1	2.0	5	30.00	
Trichloroethylene	0.27	0.27	0	30.00	

Reporting Limit Outliers

Lab Reporting Batch ID: FC20704 **Laboratory: ACTO**

EDD Filename: FC20704ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2447YOU2059F	1,2-DICHLOROETHANE	J	0.33	0.50	LOQ	ug/L	J (all detects)
2447YOU2061F	CHLOROFORM CIS-1,2-DICHLOROETHENE	J J	0.25 0.24	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2062F	CHLOROFORM	J	0.19	0.50	LOQ	ug/L	J (all detects)
2447YOU2063F	CHLOROFORM	J	0.24	0.50	LOQ	ug/L	J (all detects)
2447YOU2066F	1,2-DICHLOROETHANE CHLOROFORM	J J	0.38 0.26	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2068F	CHLOROFORM	J	0.18	0.50	LOQ	ug/L	J (all detects)
2447YOU2069F	CHLOROFORM	J	0.34	0.50	LOQ	ug/L	J (all detects)
2447YOU2075F	1,1-DICHLOROETHANE TETRACHLOROETHYLENE	J J	0.46 0.38	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2076F	CHLOROFORM TETRACHLOROETHYLENE	J J	0.24 0.14	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2084F	TETRACHLOROETHYLENE	J	0.25	0.50	LOQ	ug/L	J (all detects)
2447YOU2086F	1,1-DICHLOROETHANE CARBON TETRACHLORIDE CHLOROFORM	J J J	0.11 0.10 0.37	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2089F	1,2-DICHLOROETHANE BENZENE Trichloroethylene	J J J	0.21 0.13 0.39	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2090F	CIS-1,2-DICHLOROETHENE Trichloroethylene	J J	0.47 0.31	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2094F	CIS-1,2-DICHLOROETHENE TETRACHLOROETHYLENE	J J	0.18 0.17	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2095F	1,1-DICHLOROETHANE CHLOROFORM Trichloroethylene	J J J	0.26 0.13 0.27	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2100F	BENZENE	J	0.15	0.50	LOQ	ug/L	J (all detects)
2447YOU2146D	1,2-DICHLOROETHANE	J	0.33	0.50	LOQ	ug/L	J (all detects)
2447YOU2147D	CHLOROFORM CIS-1,2-DICHLOROETHENE	J J	0.23 0.21	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2150D	CIS-1,2-DICHLOROETHENE Trichloroethylene	J J	0.49 0.30	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2151D	1,1-DICHLOROETHANE Trichloroethylene	J J	0.26 0.27	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301D
SDG #: FC20704
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer: Q
2nd Reviewer: _____

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD≤15%, r²≥0.99 %D≤20%
IV	Continuing calibration	SW	%D≤20/50%
V	Laboratory Blanks	N	
VI	Field blanks	N	TB=1, EB=3
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	↑ = ND
IX	Laboratory control samples	N	LCS
X	Field duplicates	SW	D=2+3, 4+5, 8+9, 15+16 - NA
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2447YOU2178A	FC20704-1	TB	Water	11/19/2024	ADR
2	2447YOU2090F	FC20704-2		Water	11/19/2024	ADR
3	2447YOU2150D	FC20704-3		Water	11/19/2024	ADR
4	2447YOU2059F	FC20704-4		Water	11/19/2024	ADR
5	2447YOU2146D	FC20704-5		Water	11/19/2024	ADR
6	2447YOU2086F	FC20704-6		Water	11/19/2024	ADR
7	2447YOU2089F	FC20704-7		Water	11/19/2024	ADR
8	2447YOU2095F	FC20704-8		Water	11/19/2024	ADR
9	2447YOU2151D	FC20704-9		Water	11/19/2024	ADR
10	2447YOU2068F	FC20704-10		Water	11/19/2024	ADR
11	2447YOU2084F	FC20704-11		Water	11/19/2024	ADR
12	2447YOU2075F	FC20704-12		Water	11/19/2024	ADR
13	2447YOU2094F	FC20704-13		Water	11/19/2024	ADR
14	2447YOU2076F	FC20704-14		Water	11/19/2024	ADR
15	2447YOU2061F	FC20704-15		Water	11/19/2024	ADR
16	2447YOU2147D	FC20704-16		Water	11/19/2024	ADR
17	2447YOU2100F	FC20704-17		Water	11/19/2024	ADR
18	2447YOU2062F	FC20704-18		Water	11/19/2024	ADR
19	2447YOU2063F	FC20704-19		Water	11/19/2024	ADR
20	2447YOU2069F	FC20704-20		Water	11/19/2024	ADR
21	2447YOU2066F	FC20704-21		Water	11/19/2024	ADR
22	2447YOU2085F	FC20704-22		Water	11/19/2024	ADR

VALIDATION COMPLETENESS WORKSHEET

23	244Y7OU2183C	FC20704-23	FB	Water	11/19/2024	ADR
24	2447YOU2069FMS	FC20704-20MS	MS	Water	11/19/2024	ADR
25	2447YOU2069FMSD	FC20704-20MSD	MSD	Water	11/19/2024	ADR

Notes:

VN5738	1-17	
V23112	18-23	

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n-Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2. Methyl bromide
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2. Methyl chloride
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2. Methyl iodide
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylene	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2. Methylene bromide
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 60230/D

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

Y N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y N N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	11/25/24	ZTT46	O	29.5		18-23 MB(ND)	J+ (all det.)/A

Note: * = Ave RRF failed method criteria but within validation criteria

Quality Control
Outlier Reports

FC20753

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC20753 **Laboratory: ACTO**

EDD Filename: FC20753ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
2447YOU2079FMS 2447YOU2079FMSD (2447YOU2079F)	METHYLENE CHLORIDE	137	136	69.00-135.00	-	METHYLENE CHLORIDE	J+ (all detects)
2447YOU2184CMS 2447YOU2184CMSD (2447YOU2184C)	METHYLENE CHLORIDE	164	161	69.00-135.00	-	METHYLENE CHLORIDE	J+(all detects)

Project Name and Number: - Fort Ord Groundwater Monitoring

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC20753 **Laboratory: ACTO**

EDD Filename: FC20753ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
VN6760-BS (2447YOU2046F 2447YOU2071F 2447YOU2072F 2447YOU2073F 2447YOU2079F 2447YOU2080F 2447YOU2081F 2447YOU2087F)	METHYLENE CHLORIDE	146	-	69.00-135.00	-	METHYLENE CHLORIDE	J+ (all detects)

Project Name and Number: - Fort Ord Groundwater Monitoring

Field Duplicate RPD Report

Lab Reporting Batch ID: FC20753 **Laboratory: ACTO**

EDD Filename: FC20753ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2447YOU2070F	2447YOU2148D			
1,2-DICHLOROETHANE	0.20	0.19	5	30.00	No Qualifiers Applied
CIS-1,2-DICHLOROETHENE	0.63	0.62	2	30.00	
TETRACHLOROETHYLENE	0.33	0.31	6	30.00	
Trichloroethylene	0.40	0.41	2	30.00	

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2447YOU2077F	2447YOU2149D			
CHLOROFORM	0.66	0.67	2	30.00	No Qualifiers Applied
CIS-1,2-DICHLOROETHENE	1.8	1.8	0	30.00	
TETRACHLOROETHYLENE	0.28	0.25	11	30.00	
Trichloroethylene	12.2	12.4	2	30.00	

Reporting Limit Outliers

Lab Reporting Batch ID: FC20753 **Laboratory: ACTO**

EDD Filename: FC20753ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2447YOU2046F	CHLOROFORM	J	0.23	0.50	LOQ	ug/L	J (all detects)
2447YOU2055F	1,2-DICHLOROETHANE CIS-1,2-DICHLOROETHENE	J J	0.10 0.40	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2056F	1,1-DICHLOROETHANE CHLOROFORM	J J	0.14 0.35	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2060F	TETRACHLOROETHYLENE Trichloroethylene	J J	0.12 0.25	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2065F	BENZENE	J	0.10	0.50	LOQ	ug/L	J (all detects)
2447YOU2070F	1,2-DICHLOROETHANE TETRACHLOROETHYLENE Trichloroethylene	J J J	0.20 0.33 0.40	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2071F	1,1-DICHLOROETHANE	J	0.23	0.50	LOQ	ug/L	J (all detects)
2447YOU2072F	CHLOROFORM TETRACHLOROETHYLENE	J J	0.18 0.23	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2073F	1,1-DICHLOROETHANE CHLOROFORM Trichloroethylene	J J J	0.11 0.39 0.15	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2077F	TETRACHLOROETHYLENE	J	0.28	0.50	LOQ	ug/L	J (all detects)
2447YOU2078F	1,2-DICHLOROETHANE CHLOROFORM	J J	0.33 0.17	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2079F	CHLOROFORM Trichloroethylene	J J	0.31 0.40	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2080F	CHLOROFORM CIS-1,2-DICHLOROETHENE TETRACHLOROETHYLENE	J J J	0.25 0.33 0.14	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2091F	1,2-DICHLOROETHANE 1,2-DICHLOROPROPANE CIS-1,2-DICHLOROETHENE	J J J	0.11 0.36 0.29	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2092F	CHLOROFORM	J	0.31	0.50	LOQ	ug/L	J (all detects)
2447YOU2096F	CHLOROFORM TETRACHLOROETHYLENE	J J	0.35 0.10	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2097F	1,2-DICHLOROPROPANE	J	0.10	0.50	LOQ	ug/L	J (all detects)
2447YOU2099F	1,2-DICHLOROETHANE 1,2-DICHLOROPROPANE	J J	0.48 0.19	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2148D	1,2-DICHLOROETHANE TETRACHLOROETHYLENE Trichloroethylene	J J J	0.19 0.31 0.41	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
2447YOU2149D	TETRACHLOROETHYLENE	J	0.25	0.50	LOQ	ug/L	J (all detects)

Project Name and Number: - Fort Ord Groundwater Monitoring

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301E
SDG #: FC20753
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer: [signature]
2nd Reviewer: [signature]

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD≤15% . r² ≥ 0.99 ICV=70-130%
IV	Continuing calibration	A	D ≤ 20/50%
V	Laboratory Blanks	A	
VI	Field blanks	ND	FB=9.
VII	Surrogate spikes	A	
VIII	Matrix Spike/Matrix Spike Duplicate	SW	↑ =ND
IX	Laboratory control samples	SW	LCS ↑=ND
X	Field duplicates	SW	D=10+11, 17+18 - ND
XI	Internal standards	A	
XII	Target analyte quantitation	A	
XIII	Target analyte identification	A	
XIV	Overall assessment of data	A	

Note: A = Acceptable; ND = Not detected; FT = Field triplicate; AB= Ambient blank; R = Rinsate
N = Not provided/applicable; NQ = Not qualified; TB = Trip blank; SB = Source blank
SW = See worksheet; FD = Field duplicate; FB = Field blank; EB = Equipment blank

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	1 2447YOU2046F	FC20753-1		Water	11/20/2024	ADR
2	1 2447YOU2079F	FC20753-2		Water	11/20/2024	ADR
3	1 2447YOU2073F	FC20753-3		Water	11/20/2024	ADR
4	1 2447YOU2072F	FC20753-4		Water	11/20/2024	Stage 4
5	1 2447YOU2071F	FC20753-5		Water	11/20/2024	~~ADR~~ ↓
6	1 2447YOU2087F	FC20753-6		Water	11/20/2024	ADR
7	1 2447YOU2080F	FC20753-7		Water	11/20/2024	Stage 4
8	1 2447YOU2081F	FC20753-8		Water	11/20/2024	ADR
9	2 2447YOU2184C	FC20753-9	FB	Water	11/20/2024	ADR
10	2,1 2447YOU2077F	FC20753-10		Water	11/20/2024	Stage 4
11	2,1 2447YOU2149D	FC20753-11		Water	11/20/2024	ADR
12	2 2447YOU2078F	FC20753-12		Water	11/20/2024	Stage 4
13	2 2447YOU2091F	FC20753-13		Water	11/20/2024	Stage 4
14	2 2447YOU2099F	FC20753-14		Water	11/20/2024	Stage 4
15	2 2447YOU2092F	FC20753-15		Water	11/20/2024	ADR
16	2/3 2447YOU2065F ±	FC20753-16		Water	11/20/2024	Stage 4
17	2,1 2447YOU2070F	FC20753-17		Water	11/20/2024	ADR
18	2 2447YOU2148D	FC20753-18		Water	11/20/2024	ADR
19	2 2447YOU2096F	FC20753-19		Water	11/20/2024	ADR
20	2 2447YOU2097F	FC20753-20		Water	11/20/2024	ADR
21	2 2447YOU2082F	FC20753-21		Water	11/20/2024	ADR

VALIDATION COMPLETENESS WORKSHEET

SDG#: FC20753 Page: 2

22	2447YOU2060F	FC20753-22		Water	11/20/2024	ADR
23	2447YOU2056F	FC20753-23		Water	11/20/2024	ADR
24	2447YOU2055F	FC20753-24		Water	11/20/2024	ADR
25	2447YOU2079FMS	FC20753-2MS		Water	11/20/2024	ADR
26	2447YOU2079FMSD	FC20753-2MSD		Water	11/20/2024	ADR
27	2447YOU2184CMS	FC20753-9MS		Water	11/20/2024	ADR
28	2447YOU2184CMSD	FC20753-9MSD		Water	11/20/2024	ADR
29	2447YOU2065FMS	FC20753-16MS		Water	11/20/2024	Stage 4
30	2447YOU2065FMSD	FC20753-16MSD		Water	11/20/2024	Stage 4

Notes:

VN6760		
VN6761		
VN6762		

LDC #: 60330/E

VALIDATION FINDINGS CHECKLIST

Reviewer: 9

Method: Volatiles (EPA SW 846 Method 8260B-SIM)

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
II. GC/MS Instrument performance check (Not required)				
Were the BFB performance results reviewed and found to be within the specified criteria?	✓			
Were all samples analyzed within the 12 hour clock criteria?	✓			
IIIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 15% and relative response factors (RRF) ≥ 0.05??	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥ 0.990?	✓			
IIIb. Initial Calibration Verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent difference (%D) ≤20% or percent recoveries (%R) 80-120%?	✓			
IV. Continuing calibration				
Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?	✓			
Were all percent differences (%D) ≤ 20% and relative response factors (RRF) ≥ 0.05?	✓			
V. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed at least once every 12 hours for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks? If yes, please see the Blanks validation findings worksheet.		✓		
VI. Field blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VII. Surrogate spikes				
Were all surrogate percent recovery (%R) within QC limits?	✓			
If the percent recovery (%R) for one or more surrogates was out of QC limits, was a reanalysis performed to confirm samples with %R outside of criteria?			✓	
VIII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?	✓			
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?		✓		

Validation Area	Yes	No	NA	Findings/Comments
IX. Laboratory control samples				
Was an LCS analyzed per analytical batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?		✓		
X. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target analytes detected in the field duplicates?	✓			
XI. Internal standards				
Were internal standard area counts within -50% or +100% of the associated calibration standard?	✓			
Were retention times within ± 30 seconds of the associated calibration standard?	✓			
XII. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were the correct internal standard (IS), quantitation ion and relative response factor (RRF) used to quantitate the target analyte?	✓			
Were target analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Target analyte identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did analyte spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
Were manual integrations performed and found acceptable?	✓			
Did the lab provide before and after printouts?	✓			
XV. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

TARGET ANALYTE LIST

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n-Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2.
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2.
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2.
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylenes	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2.
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 60301Z1

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: Q

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The Relative Response Factor (RRF), average RRF, and percent relative standard deviation (%RSD) were recalculated for the compounds identified below using the following calculations:

$RRF = (A_x)(C_{is})/(A_{is})(C_x)$
average RRF = sum of the RRFs/number of standards
%RSD = 100 * (S/X)

A_x = Area of compound,
C_x = Concentration of compound,
S = Standard deviation of the RRFs
X = Mean of the RRFs

A_{is} = Area of associated internal standard
C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference Internal Standard)	Reported RRF (10 std)	Recalculated RRF (10 std)	Reported Average RRF (initial)	Recalculated Average RRF (initial)	Reported %RSD	Recalculated %RSD
1	ICAL	11/22/24	I (1st internal standard)	0.343	0.343	0.374	0.374	14.05	14.03
			AA (2nd internal standard)	0.255	0.255	0.280	0.280	14.66	14.64
			(3rd internal standard)						
			(4th internal standard)						
2			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
3			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						
4			(1st internal standard)						
			(2nd internal standard)						
			(3rd internal standard)						
			(4th internal standard)						

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 60301E

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B_SIM)

The percent difference (%D) of the initial calibration average Relative Response Factors (RRFs) and the continuing calibration RRFs were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. RRF - RRF)/ave. RRF
$RRF = (A_x)(C_{is})/(A_{is})(C_x)$

Where: ave. RRF = initial calibration average RRF
RRF = continuing calibration RRF
A_x = Area of compound, A_{is} = Area of associated internal standard
C_x = Concentration of compound, C_{is} = Concentration of internal standard

#	Standard ID	Calibration Date	Compound (Reference internal Standard)	Average RRF (initial)	Reported RRF (CC)	Recalculated RRF (CC)	Reported %D	Recalculated %D
1	N0133537	11/27/24	I (1st internal standard)	0.374	0.400	0.400	7.0	7.0
			AA (2nd internal standard)	0.280	0.285	0.285	1.8	2.0
			(3rd internal standard)					
			(4th internal standard)					
2	N0133565	12/2/24	I (1st internal standard)	0.374	0.404	0.404	8.0	8.0
			AA (2nd internal standard)	0.280	0.285	0.285	1.8	1.7
			(3rd internal standard)					
			(4th internal standard)					
3	N0133592	12/3/24	I (1st internal standard)	0.374	0.408	0.408	9.1	9.0
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					
4			(1st internal standard)					
			(2nd internal standard)					
			(3rd internal standard)					
			(4th internal standard)					

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 60301B

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Page: 1 of 1
Reviewer: A

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: 4

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4	5.00	5.27	105	105	
Toluene-d8	V	4.97	99	99	
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

Sample ID:

	Surrogate Spiked	Surrogate Found	Percent Recovery Reported	Percent Recovery Recalculated	Percent Difference
Dibromofluoromethane					
1,2-Dichloroethane-d4					
Toluene-d8					
Bromofluorobenzene					

LDC #: 60304E

VALIDATION FINDINGS WORKSHEET
Matrix Spike/Matrix Spike Duplicates Results Verification

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the matrix spike and matrix spike duplicate were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * (SSC - SC)/SA

Where: SSC = Spiked sample concentration; SA = Spike added; SC = Sample concentration

RPD = I MSC - MSC I * 2/(MSC + MSDC)

MSC = Matrix spike concentration; MSDC = Matrix spike duplicate concentration

MS/MSD sample: 25/26

Compound	Spike Added (µg/L)		Sample Concentration (µg/L)	Spiked Sample Concentration (µg/L)		Matrix Spike Percent Recovery		Matrix Spike Duplicate Percent Recovery		MS/MSD RPD	
	MS	MSD	------	MS	MSD	Reported	Recalc	Reported	Recalc	Reported	Recalculated
V	25	25	ND	25.5	26.0	102	102	104	104	2	2
5	V	V	0.40	25.8	26.3	102	102	104	104	2	2

Comments: Refer to Matrix Spike/Matrix Spike Duplicates findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 60230E1a

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

The percent recoveries (%R) and Relative Percent Difference (RPD) of the laboratoy control sample and laboratory control sample duplicate (if applicable) were recalculated for the compounds identified below using the following calculation:

% Recovery = 100 * SSC/SA Where: SSC = Spiked sample concentration; SA = Spike added

RPD = I LCSC - LCSDC I * 2/(LCSC + LCSDC) LCSC = Laboratory control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: VN6761-BS

Compound	Spike Added (ug/L)		Spiked Sample Concentration (ug/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
V	5	NA	5.2	NA	104	104				
S	V	V	5.4	V	108	108				

Comments: Refer to Laboratory Control Sample findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 60301E

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: Q

METHOD: GC/MS VOA (EPA SW 846 Method 8260B-SIM)

Y N N/A Were all reported results recalculated and verified for all level IV samples?

Y N N/A Were all recalculated results for detected target compounds agree within 10.0% of the reported results?

Concentration = $\frac{(A_x)(I_s)(DF)}{(A_{is})(RRF)(V_o)(\%S)}$

A_x = Area of the characteristic ion (EICP) for the compound to be measured

A_{is} = Area of the characteristic ion (EICP) for the specific internal standard

I_s = Amount of internal standard added in nanograms (ng)

RRF = Relative response factor of the calibration standard.

V_o = Volume or weight of sample pruged in milliliters (ml) or grams (g).

Df = Dilution factor.

%S = Percent solids, applicable to soils and solid matrices only.

Example:

Sample I.D. 12, I:

Conc. = $\frac{(17557)(5.0)(1)}{(128549)(0.374)(\quad)(\quad)}$

= 1.82 µg/L

#	Sample ID	Compound	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Qualification
	12	I	1.8	1.8	

Quality Control
Outlier Reports

FC20800

Reporting Limit Outliers

Lab Reporting Batch ID: FC20800 **Laboratory: ACTO**

EDD Filename: FC20800ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2447X0BW025F	CHLOROFORM TETRACHLOROETHYLENE	J J	0.16 0.16	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2044F	CHLOROFORM TETRACHLOROETHYLENE	J J	0.32 0.11	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2447YOU2067F	CHLOROFORM	J	0.17	0.50	LOQ	ug/L	J (all detects)
2447YOU2083F	CIS-1,2-DICHLOROETHENE	J	0.38	0.50	LOQ	ug/L	J (all detects)

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301F
SDG #: FC20800
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer:
2nd Reviewer:

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD ≤ 15% or r^2 ≥ 0.99
IV	Continuing calibration	A	%D ≤ 20/30%
V	Laboratory Blanks	N	
VI	Field blanks	N	
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	MS
IX	Laboratory control samples	N	LCS
X	Field duplicates	N	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification		
XIV	Overall assessment of data		

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2447YOU2083F	FC20800-1		Water	11/21/2024	ADR
2	2447YOU2067F	FC20800-2		Water	11/21/2024	ADR
3	2447YOU2044F	FC20800-3		Water	11/21/2024	ADR
4	2447X0BW025F	FC20800-4		Water	11/22/2024	ADR
5	2447XOU2020F	FC20800-5		Water	11/22/2024	ADR

Notes:

VN676 1		
VN676 2		

Quality Control
Outlier Reports

FC21035

Surrogate Outlier Report

Lab Reporting Batch ID: FC21035 **Laboratory: ACTO**

EDD Filename: FC21035ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
2449MOU2022F (1RES)	TOLUENE-D8	114	88.00-111.00	All Target Analytes	J+ (all detects)

Project Name and Number: - Fort Ord Groundwater Monitoring

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301G
SDG #: FC21035
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer: a
2nd Reviewer: [illegible]

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/W	RSD≤15%. V2 ICV≤20%
IV	Continuing calibration / Endog.	A	%D≤20/50%
V	Laboratory Blanks	N	
VI	Field blanks	N	
VII	Surrogate spikes	N	↑ = ND
VIII	Matrix Spike/Matrix Spike Duplicate	N	MS
IX	Laboratory control samples	N	LCS
X	Field duplicates	A	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	↓	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2449MOU2022F	FC21035-1		Water	12/02/2024	ADR

Notes:

V2312		

LDC #: 60301F

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y (N) N/A Were all %D within the validation criteria of ≤20%/30%D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20/30.0%)	Associated Samples	Qualifications
	5/10/6	ZTT338	Methylene chloride	54.1	All (ND)	J+ (all) / A

Quality Control
Outlier Reports

FC21036

Method Blank Outlier Report

Lab Reporting Batch ID: FC21036 **Laboratory: ACTO**

EDD Filename: FC21036ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VZ3122-MB	12/16/2024 3:02:00 PM	METHYLENE CHLORIDE	0.59 ug/L	2449YOU2058F 2449YOU2088F 2449YOU2145D

Project Name and Number: - Fort Ord Groundwater Monitoring

Surrogate Outlier Report

Lab Reporting Batch ID: FC21036 **Laboratory: ACTO**

EDD Filename: FC21036ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
2449YOU2203A (1RES)	TOLUENE-D8	117	88.00-111.00	All Target Analytes	J+ (all detects)
2449YOU2204C (1RES)	TOLUENE-D8	117	88.00-111.00	All Target Analytes	J+(all detects)

Matrix Spike/Matrix Spike Duplicate Outlier Report

Lab Reporting Batch ID: FC21036 **Laboratory: ACTO**

EDD Filename: FC21036ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*MS %R*	*MSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
2449YOU2058FMS 2449YOU2058FMSD (2449YOU2058F)	1,1-DICHLOROETHANE	130	-	81.00-122.00	-	1,1-DICHLOROETHANE	J+ (all detects)
	BENZENE	123	-	81.00-122.00	-	BENZENE	
	CHLOROFORM	128	-	80.00-124.00	-	CHLOROFORM	
	CIS-1,2-DICHLOROETHENE	126	-	78.00-120.00	-	CIS-1,2-DICHLOROETHENE	
	METHYLENE CHLORIDE	231	228	69.00-135.00	-	METHYLENE CHLORIDE	
	Trichloroethylene	127	-	81.00-126.00	-	Trichloroethylene	

Field Duplicate RPD Report

Lab Reporting Batch ID: FC21036 **Laboratory: ACTO**

EDD Filename: FC21036ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	Concentration (ug/L)		Sample RPD	eQAPP RPD	Flag
	2449YOU2058F	2449YOU2145D			
Trichloroethylene	1.1	1.1	0	30.00	No Qualifiers Applied

Project Name and Number: - Fort Ord Groundwater Monitoring

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301H
SDG #: FC21036
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer:
2nd Reviewer:

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/M	RSD ≤ 15%. r² ICV ≤ 20%
IV	Continuing calibration	M/N	D ≤ 20/50%
V	Laboratory Blanks	N	E = NB
VI	Field blanks	N	TB = 1 FB = 2
VII	Surrogate spikes	N	↑
VIII	Matrix Spike/Matrix Spike Duplicate	N	↑
IX	Laboratory control samples	N	
X	Field duplicates	N	D = 3 +/- X or R
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification		
XIV	Overall assessment of data		

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2449YOU2203A	FC21036-1	TB	Water	12/04/2024	ADR
2	2449YOU2204C	FC21036-2	FB	Water	12/04/2024	ADR
3	2449YOU2058F	FC21036-3		Water	12/04/2024	ADR
4	2449YOU2145D	FC21036-4		Water	12/04/2024	ADR
5	2449YOU2088F	FC21036-5		Water	12/04/2024	ADR
6	2449YOU2058FMS	FC21036-3MS	MS	Water	12/04/2024	ADR
7	2449YOU2058FMSD	FC21036-3MSD	MSD	Water	12/04/2024	ADR

Notes:

V23121		
V23122		

LDC #: 60301H

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?

Y (N) N/A Were all %D within the validation criteria of ≤20%/30%D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20/30.0%)	Associated Samples	Qualifications
	2/10/24	ZT7338	Methylene chloride	54.1	~~All~~ (ND) 1-2	J+ (all detects)/A

ICVvoa.wpd

LDC #60301H

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	12/6/12	ZT7432 (analog)	Methylene chloride	72.9		3-7 (NO)	J (all dets) / A

Note: * = Ave RRF failed method criteria but within validation criteria

Quality Control
Outlier Reports

FC21037

Surrogate Outlier Report

Lab Reporting Batch ID: FC21037 **Laboratory: ACTO**

EDD Filename: FC21037ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Sample ID (Analysis Type)	*Surrogate*	*Sample % Recovery*	*% Recovery Limits*	*Affected Compounds*	*Flag*
2449YOU2074F (1RES)	TOLUENE-D8	115	88.00-111.00	All Target Analytes	J+ (all detects)
2449YOU2186C (1RES)	TOLUENE-D8	115	88.00-111.00	All Target Analytes	J+(all detects)
2449YOU2202A (1RES)	TOLUENE-D8	114	88.00-111.00	All Target Analytes	J+(all detects)

Reporting Limit Outliers

Lab Reporting Batch ID: FC21037 **Laboratory: ACTO**

EDD Filename: FC21037ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2449YOU2074F	1,1-DICHLOROETHANE	J	0.17	0.50	LOQ	ug/L	J (all detects)
	CHLOROFORM	J	0.20	0.50	LOQ	ug/L	
	CIS-1,2-DICHLOROETHENE	J	0.18	0.50	LOQ	ug/L	
	TETRACHLOROETHYLENE	J	0.22	0.50	LOQ	ug/L	

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301I
SDG #: FC21037
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/6/2025
Page: 1
Reviewer: CL
2nd Reviewer: JM

Method: Volatiles (EPA 8260D SIM)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/SW	RSD ≤ 15%. r² ≥ 0.99
IV	Continuing calibration / End Cal	SW/A	D ≤ 20/30%
V	Laboratory Blanks	N	
VI	Field blanks	N	TB = 1 FB = 2
VII	Surrogate spikes	N	
VIII	Matrix Spike/Matrix Spike Duplicate	N	CS
IX	Laboratory control samples	N	LCS
X	Field duplicates	N	
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1 -	2449YOU2202A ↑	FC21037-1	TB	Water	12/02/2024	ADR
2 -	2449YOU2186C ↑	FC21037-2	FB	Water	12/02/2024	ADR
3 +	2449YOU2074F ↕	FC21037-3		Water	12/02/2024	ADR

Notes:

V2312I		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n-Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2. Methyl bromide
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2. Methyl chloride
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2. Methyl iodide
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylene	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2. Methylene bromide
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 6030/I

VALIDATION FINDINGS WORKSHEET
Initial Calibration Verification

Page: 1 of 1
Reviewer: 9

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y N N/A Was an initial calibration verification standard analyzed after each ICAL for each instrument?
Y (N) N/A Were all %D within the validation criteria of ≤20%/30%D?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20/30.0%)	Associated Samples	Qualifications
	12/10/02	277338	E	54.1	All (ND)	J+ (all detects)/A

ICVvoa.wpd

Quality Control
Outlier Reports

FC21167

Method Blank Outlier Report

Lab Reporting Batch ID: FC21167

Laboratory: ACTO

EDD Filename: FC21167ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

Method: **SW846 8260D BY SIM**
Matrix: **AQ**

Method Blank Sample ID	Analysis Date	Analyte	Result	Associated Samples
VZ3122-MB	12/16/2024 3:02:00 PM	METHYLENE CHLORIDE	0.59 ug/L	2450MOU2021F 2450MOU2023F 2450MOU2024D 2450MOU2029A

Project Name and Number: - Fort Ord Groundwater Monitoring

Field Duplicate RPD Report

Lab Reporting Batch ID: FC21167 **Laboratory: ACTO**

EDD Filename: FC21167ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: SW846 8260D BY SIM
Matrix: AQ

Analyte	*Concentration (ug/L)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	2450MOU2023F	**2450MOU2024D**			
CARBON TETRACHLORIDE	3.2	3.3	3	30.00	No Qualifiers Applied
CHLOROFORM	0.35	0.37	6	30.00	

Project Name and Number: - Fort Ord Groundwater Monitoring

Reporting Limit Outliers

Lab Reporting Batch ID: FC21167 **Laboratory: ACTO**

EDD Filename: FC21167ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: **SW846 8260D BY SIM**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
2450MOU2021F	CHLOROFORM CIS-1,2-DICHLOROETHENE	J J	0.19 0.15	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
2450MOU2023F	CHLOROFORM	J	0.35	0.50	LOQ	ug/L	J (all detects)
2450MOU2024D	CHLOROFORM	J	0.37	0.50	LOQ	ug/L	J (all detects)

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60301J
SDG #: FC21167
Laboratory: SGS North America, Inc., Orlando, FL

Method: Volatiles (EPA 8260D SIM)

Date: 1/6/2025
Page: 1
Reviewer: [signature]
2nd Reviewer: [signature]

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	GC/MS Instrument performance check	A	
III	Initial Calibration/ ICV	A/A	RSD ≤ 15% or r² |r| ≤ 2%
IV	Continuing calibration / Endrin	SW	D ≤ 20/30%
V	Laboratory Blanks	SW	C = dots.
VI	Field blanks	N	TB=1
VII	Surrogate spikes	A	
VIII	Matrix Spike/Matrix Spike Duplicate	N	MS
IX	Laboratory control samples	N	LCS
X	Field duplicates	SW	D=3+4 - ADR
XI	Internal standards	A	
XII	Target analyte quantitation	N	
XIII	Target analyte identification	N	
XIV	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = Not detected; NQ = Not qualified; FD = Field duplicate; FT = Field triplicate; TB = Trip blank; FB = Field blank; AB= Ambient blank; SB = Source blank; EB = Equipment blank; R = Rinsate

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2450MOU2029A	FC21167-1	TB	Water	12/11/2024	ADR
2	2450MOU2021F	FC21167-2		Water	12/11/2024	ADR
3	2450MOU2023F	FC21167-3		Water	12/11/2024	ADR
4	2450MOU2024D	FC21167-4		Water	12/11/2024	ADR

Notes:

V23122		

TARGET COMPOUND WORKSHEET

METHOD: VOA

A. Chloromethane	AA. Tetrachloroethene	AAA. 1,3,5-Trimethylbenzene	AAAA. Ethyl tert-butyl ether	A1. 1,3-Butadiene	A2. 1,2,4,5-Tetramethylbenzene
B. Bromomethane	BB. 1,1,2,2-Tetrachloroethane	BBB. 4-Chlorotoluene	BBBB. tert-Amyl methyl ether	B1. Hexane	B2. n-Octane
C. Vinyl choride	CC. Toluene	CCC. tert-Butylbenzene	CCCC. 1-Chlorohexane	C1. Heptane	C2. n-Propyl alcohol
D. Chloroethane	DD. Chlorobenzene	DDD. 1,2,4-Trimethylbenzene	DDDD. Isopropyl alcohol	D1. Propylene	D2. n-Pentane
E. Methylene chloride	EE. Ethylbenzene	EEE. sec-Butylbenzene	EEEE. Acetonitrile	E1. Freon 11	E2. n-Decane
F. Acetone	FF. Styrene	FFF. 1,3-Dichlorobenzene	FFFF. Acrolein	F1. Freon 12	F2. Chlorodifluoromethane
G. Carbon disulfide	GG. Xylenes, total	GGG. p-Isopropyltoluene	GGGG. Acrylonitrile	G1. Freon 113	G2. cis-Decahydronaphthalene
H. 1,1-Dichloroethene	HH. Vinyl acetate	HHH. 1,4-Dichlorobenzene	HHHH. 1,4-Dioxane	H1. Freon 114	H2. trans-Decahydronaphthalene
I. 1,1-Dichloroethane	II. 2-Chloroethylvinyl ether	III. n-Butylbenzene	IIII. Isobutyl alcohol	I1. 2-Nitropropane	I2. n-Nonane
J. 1,2-Dichloroethene, total	JJ. Dichlorodifluoromethane	JJJ. 1,2-Dichlorobenzene	JJJJ. Methacrylonitrile	J1. Dimethyl disulfide	J2. n-Undecane
K. Chloroform	KK. Trichlorofluoromethane	KKK. 1,2,4-Trichlorobenzene	KKKK. Propionitrile	K1. 2,3-Dimethyl pentane	K2. Chloroprene
L. 1,2-Dichloroethane	LL. Methyl-tert-butyl ether	LLL. Hexachlorobutadiene	LLLL. Ethyl ether	L1. 2,4-Dimethyl pentane	L2. n-Butanol
M. 2-Butanone	MM. 1,2-Dibromo-3-chloropropane	MMM. Naphthalene	MMMM. Benzyl chloride	M1. 3,3-Dimethyl pentane	M2. n-Butyl acetate
N. 1,1,1-Trichloroethane	NN. Methyl ethyl ketone	NNN. 1,2,3-Trichlorobenzene	NNNN. Iodomethane	N1. 2-Methylpentane	N2. Nitrobenzene
O. Carbon tetrachloride	OO. 2,2-Dichloropropane	OOO. 1,3,5-Trichlorobenzene	OOOO. 1,1-Difluoroethane	O1. 3-Methylpentane	O2. Methyl bromide
P. Bromodichloromethane	PP. Bromochloromethane	PPP. trans-1,2-Dichloroethene	PPPP. Tetrahydrofuran	P1. 3-Ethylpentane	P2. Methyl chloride
Q. 1,2-Dichloropropane	QQ. 1,1-Dichloropropene	QQQ. cis-1,2-Dichloroethene	QQQQ. Methyl acetate	Q1. 2,2-Dimethylpentane	Q2. Methyl iodide
R. cis-1,3-Dichloropropene	RR. Dibromomethane	RRR. m,p-Xylene	RRRR. Ethyl acetate	R1. 2,2,3- Trimethylbutane	R2. Methylene bromide
S. Trichloroethene	SS. 1,3-Dichloropropane	SSS. o-Xylene	SSSS. Cyclohexane	S1. 2,2,4-Trimethylpentane	S2.
T. Dibromochloromethane	TT. 1,2-Dibromoethane	TTT. 1,1,2-Trichloro-1,2,2-trifluoroethane	TTTT. Methylcyclohexane	T1. 2-Methylhexane	T2.
U. 1,1,2-Trichloroethane	UU. 1,1,1,2-Tetrachloroethane	UUU. 1,2-Dichlorotetrafluoroethane	UUUU. Allyl chloride	U1. Nonanal	U2.
V. Benzene	VV. Isopropylbenzene	VVV. 4-Ethyltoluene	VVVV. Methyl methacrylate	V1. 2-Methylnaphthalene	V2.
W. trans-1,3-Dichloropropene	WW. Bromobenzene	WWW. Ethanol	WWWW. Ethyl methacrylate	W1. Methanol	W2.
X. Bromoform	XX. 1,2,3-Trichloropropane	XXX. Di-isopropyl ether	XXXX. cis-1,4-Dichloro-2-butene	X1. 1,2,3-Trimethylbenzene	X2.
Y. 4-Methyl-2-pentanone	YY. n-Propylbenzene	YYY. tert-Butanol	YYYY. trans-1,4-Dichloro-2-butene	Y1. 2-Propanol	Y2.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1. p-Diethylbenzene	Z2.

LDC #: 60384

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Reviewer: 2

METHOD: GC/MS VOA (EPA SW 846 Method 8260)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Was a continuing calibration standard analyzed at least once every 12 hours for each instrument?

Y (N) N/A Were percent differences (%D) ≤20 % and relative response factors (RRF) within the method criteria?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit)	Associated Samples	Qualifications
	12/16/04	277432 (ending)	E	72.9		All (ND)	J+ all Det/A

Note: * = Ave RRF failed method criteria but within validation criteria

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

AHTNA
296 12th Street
Marina, CA 93933
ATTN: Mr. Eric A. Schmidt
eschmidt@ahtna.net

January 27, 2025

SUBJECT: Fort Ord, OU2 Landfill - Data Validation

Dear Mr. Schmidt,

Enclosed are the final validation reports for the fraction listed below. This SDG was received on December 30, 2024. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #60340:

SDG #	**Fraction**
FC21168	Dissolved Metals, Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate

The data validation was performed under Stage 2A guidelines. The analysis was validated using the following documents, as applicable to each method:

- Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022)
- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021)
- DoD Data Validation Guidelines Module 2: Data Validation Procedure for Metals by ICP-OES (May 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

LDC #60340 (Ahtna Engineering Services, LLC. - Marina, CA / Fort Ord, OU2)

LDC	SDG#	Received Date	(21) Due Date	Validation Level	Anions (NO3-N, NO2-N, SO4) (300.0)	Diss. Fe & Mn (6010D)
Matrix Type:					Water	Water
A	FC21168	12/30/24	1/21/25	ADR	2	2
Total			PM: PG		**2**	**2**

These sample counts do not include MS/MSD, and DUPs.

EDD: ADR

LDC Report# 60340

Automated Data Review Data Validation Report
Fort Ord, OU2 Landfill

Sample Delivery Group(s)

FC21168

January 26, 2025

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples collected during the December 2024 sampling period. Data validation was performed in accordance with the Quality Assurance Project Plan Volume I, Appendix D for Operable Unit 2 Landfills, Former Fort Ord, California (Revision 6, March 2022), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.4 (2021), and the DoD Data Validation Guidelines Module 2: Data Validation Procedure for Metals by ICP-OES (May 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following method(s):

Dissolved Metals by Environmental Protection Agency (EPA) SW 846 Method 6010D

Nitrate as Nitrogen, Nitrite as Nitrogen, and Sulfate by EPA Method 300.0

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary reports.

The following are definitions of the data qualifiers utilized during data validation:

J+ The result was an estimated quantity, but the result may be biased high.

J- The result was an estimated quantity, but the result may be biased low.

J The reported result was an estimated quantity value with an unknown bias.

U The analyte was not detected and was reported as less than the LOD or as defined by the customer. The LOD has been adjusted for any dilution or concentration of the sample.

UJ The analyte was not detected and was reported as less than the LOD or as defined by the customer. However, the associated numerical value is approximate.

N The analysis indicates the presence of an analyte for which there was presumptive evidence to make a "tentative identification".

NJ The analyte has been "tentatively identified" or "presumptively identified" as present, and the associated numerical value was the estimated concentration in the sample.

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. Acceptance or rejection of the data should be decided by the project team (which should include a Project Chemist), but exclusion of the data is recommended.

NA (Not Applicable): The non-conformance discovered during data validation demonstrates a high bias, while the affected analyte in the associated sample(s) was reported as not detected by the laboratory and did not warrant the qualification of the data.

Sample Receipt & Technical Holding Times

All samples were received in good condition.

All technical holding time requirements were met.

Initial Calibration

All criteria for the initial calibration of each method were met.

Initial and Continuing Calibration Verification

Continuing calibration frequency and analysis criteria were met for each method.

The initial calibration verification (ICV) and continuing calibration verification (CCV) standards were within QC limits.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminant concentrations were detected in the laboratory blanks.

Field Blanks

No field blanks were identified in these SDGs.

Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for the samples in this SDG, and therefore matrix spike and matrix spike duplicate analyses were not performed for this SDG.

Laboratory Duplicates

No field duplicates were identified in this SDG.

Serial Dilution

6010D
Serial dilution was not performed for this SDG.

Laboratory Control Samples

Laboratory control samples (LCS) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits.

Field Duplicates

6010D
One field duplicate pair was collected and analyzed. No results were detected in the field duplicates. The field duplicates are identified in Attachment 1.

300.0
One field duplicate pair was collected and analyzed. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

All analytes reported below the limit of quantitation (LOQ) as detected by the laboratory were qualified as detected estimated (J). The details regarding the qualification of data are provided in Enclosure I.

Target Analyte Identification

Raw data were not reviewed for Stage 2B validation.

Manual integrations were reviewed and were considered acceptable. The laboratory provided before and after integration printouts.

Overall Assessment of Data

The analysis was conducted within all specifications of the methods. No results were recommended for exclusion in this SDG.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Cross Reference

Sample Cross Reference

Date Collected	Field Sample ID	Lab Sample ID	Sample Type	Prep Method	Analytical Method	Review Level
11-Dec-2024	2450MOU2139F	FC21168-1	N	Gen Prep	PA 300/SW846 9056	Stage 2B
11-Dec-2024	2450MOU2139F	FC21168-1F	N	3010A	SW846 6010D	Stage 2B
11-Dec-2024	2450MOU2140D	FC21168-2	FD	Gen Prep	PA 300/SW846 9056	Stage 2B
11-Dec-2024	2450MOU2140D	FC21168-2F	FD	3010A	SW846 6010D	Stage 2B

N = Normal Sample *TB = Trip Blank* *MS = Matrix Spike*
FD = Field Duplicate *FB = Field Blank* *MSD = Matrix Spike Duplicate*

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: FC21168

Laboratory: ACTO

EDD Filename: FC21168ACTO

eQAPP Name: FtOrd_UFP_QAPP_Rev9_3

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

FC21168

Field Duplicate RPD Report

Lab Reporting Batch ID: FC21168 **Laboratory: ACTO**

EDD Filename: FC21168ACTO **eQAPP Name: FtOrd_UFP_QAPP_Rev9_3**

Method: EPA 300/SW846 9056A
Matrix: AQ

Analyte	*Concentration (mg/l)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	2450MOU2139F	**2450MOU2140D**			
Nitrogen, Nitrate	5.9	5.9	0	30.00	No Qualifiers Applied
SULFATE	18.6	18.4	1	30.00	

Project Name and Number: - Fort Ord Groundwater Monitoring

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60340A
SDG #: FC21168
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/10/2025
Page: 1
Reviewer: LN
2nd Reviewer:

Method: Anions (EPA 300.0), Nitrate-N, Nitrite-N, Sulfate

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	Initial calibration	A	
III	ICV/ Continuing calibration	A	
IV	Laboratory Blanks	A	
V	Field blanks	N	
VI	Matrix spike/Matrix spike duplicates	N	
VII	Laboratory duplicates	N	
VIII	Laboratory control samples	A	LCS
IX	Field duplicates	SW	D: (1, 2)
X	Target analyte quantitation	A	
XI	Overall assessment of data	A	

Note: A = Acceptable; ND = Not detected; FT = Field triplicate; AB= Ambient blank; R = Rinsate
N = Not provided/applicable; NQ = Not qualified; TB = Trip blank; SB = Source blank
SW = See worksheet; FD = Field duplicate; FB = Field blank; EB = Equipment blank

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2450MOU2139F	FC21168-1	FD	Water	12/11/2024	ADR
2	2450MOU2140D	FC21168-2	FD	Water	12/11/2024	ADR

Notes:

VALIDATION COMPLETENESS WORKSHEET

LDC #: 60340A
SDG #: FC21168
Laboratory: SGS North America, Inc., Orlando, FL

Date: 1/10/2025
Page: 1
Reviewer: LN
2nd Reviewer:

Method: Metals (EPA 6010D), Dissolved Iron & Manganese

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I	Sample receipt/Technical holding times	A	
II	Initial calibration	A	
III	ICV/ Continuing calibration	A	
IV	ICP Interference Check Sample (ICS) Analysis	A	
V	Laboratory Blanks	A	
VI	Field blanks	N	
VII	Matrix spike/Matrix spike duplicates	N	
VIII	Laboratory duplicates	N	
IX	Serial Dilution	N	
X	Laboratory control samples	A	LCS
XI	Field duplicates	ND	D1: (1,2)
XII	Target analyte quantitation	A	
XIII	Overall assessment of data	A	

Note: A = Acceptable; ND = Not detected; FT = Field triplicate; AB= Ambient blank; R = Rinsate
N = Not provided/applicable; NQ = Not qualified; TB = Trip blank; SB = Source blank
SW = See worksheet; FD = Field duplicate; FB = Field blank; EB = Equipment blank

	Client ID	Lab ID	QC Type	Matrix	Date	Stage
1	2450MOU2139F	FC21168-1	FD	Water	12/11/2024	ADR
2	2450MOU2140D	FC21168-2	FD	Water	12/11/2024	ADR

Notes:

Groundwater and Soil IDW Data

SGS Laboratory Reports

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ahtna Global, LLC

Soil Samples - Former Fort Ord, CA

21065.000.01.0000

SGS Job Number: FC17179

Sampling Date: 07/15/24

Report to:

Ahtna Global, LLC
9699 Blue Larkspur Lane Suite 203
Monterey, CA 93940
dlieberman@ahtna.net; eschmidt@ahtna.net

ATTN: Derek Lieberman

Total number of pages in report: **117**

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: Elvin Kumar 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

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SGS North America Inc.

Sample Summary

Ahtna Global, LLC

Job No: FC17179

Soil Samples - Former Fort Ord, CA
Project No: 21065.000.01.0000

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC17179-1	07/15/24	13:45	MF	07/16/24	SO	Soil	2429MOU2087F
FC17179-2	07/15/24	14:10	MF	07/16/24	SO	Soil	2429MOU2088F

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Ahtna Global, LLC **Job No:** FC17179

Site: Soil Samples - Former Fort Ord, CA **Report Date:** 7/23/2024 4:25:57 PM

On 07/16/2024, 2 Sample(s), 0 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 FC17179 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: SO **Batch ID:** V3C1232

Sample(s) FC17088-3MS, FC17088-3MSD were used as the QC samples indicated.

Blank Spike Recovery(s) for Vinyl Chloride are outside control limits.

Matrix Spike Recovery(s) for Vinyl Chloride are outside control limits. Probable cause is due to matrix interference.

FC17179-1 for Vinyl Chloride: Associated CCV and BS recovery outside DOD QSM control limits high, sample is ND.

FC17179-2 for Vinyl Chloride: Associated CCV and BS recovery outside DOD QSM control limits high, sample is ND.

General Chemistry By Method SM19 2540G

Matrix: SO **Batch ID:** GN97949

Sample(s) FC17212-1DUP were used as the QC samples for Moisture, Percent.

RPD(s) for Duplicate for Moisture, Percent are outside control limits for sample GN97949-D1. Probable cause is due to sample non-homogeneity.

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: FC17179
Account: Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA
Collected: 07/15/24

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method

FC17179-1 **2429MOU2087F**

No hits reported in this sample.

FC17179-2 **2429MOU2088F**

No hits reported in this sample.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	2429MOU2087F		
Lab Sample ID:	FC17179-1	**Date Sampled:**	07/15/24
Matrix:	SO - Soil	**Date Received:**	07/16/24
Method:	SW846 8260D	**Percent Solids:**	85.5
Project:	Soil Samples - Former Fort Ord, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C193008.D	1	07/17/24 13:59	DB	n/a	n/a	V3C1232
Run #2							

	Initial Weight	Final Volume
Run #1	4.74 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	2.5 U	6.2	2.5	1.3	ug/kg	
75-35-4	1,1-Dichloroethylene	2.5 U	6.2	2.5	1.2	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	2.5 U	6.2	2.5	1.7	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	2.5 U	6.2	2.5	1.2	ug/kg	
75-09-2	Methylene Chloride	19 U	25	19	14	ug/kg	
127-18-4	Tetrachloroethylene	2.5 U	6.2	2.5	1.6	ug/kg	
79-01-6	Trichloroethylene	2.5 U	6.2	2.5	1.2	ug/kg	
75-01-4	Vinyl Chloride [a]	2.5 U	6.2	2.5	1.2	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-124%
17060-07-0	1,2-Dichloroethane-D4	101%		72-135%
2037-26-5	Toluene-D8	98%		75-126%
460-00-4	4-Bromofluorobenzene	103%		71-133%

(a) Associated CCV and BS recovery outside 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

Report of Analysis

Client Sample ID:	2429MOU2087F		
Lab Sample ID:	FC17179-1	**Date Sampled:**	07/15/24
Matrix:	SO - Soil	**Date Received:**	07/16/24
		Percent Solids:	85.5
Project:	Soil Samples - Former Fort Ord, CA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	14.5		%	1	07/17/24 15:40	SS	SM19 2540G

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	2429MOU2088F		
Lab Sample ID:	FC17179-2	**Date Sampled:**	07/15/24
Matrix:	SO - Soil	**Date Received:**	07/16/24
Method:	SW846 8260D	**Percent Solids:**	82.5
Project:	Soil Samples - Former Fort Ord, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3C193009.D	1	07/17/24 14:23	DB	n/a	n/a	V3C1232
Run #2							

	Initial Weight	Final Volume
Run #1	6.23 g	5.0 ml
Run #2		

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
56-23-5	Carbon Tetrachloride	1.9 U	4.9	1.9	0.99	ug/kg	
75-35-4	1,1-Dichloroethylene	1.9 U	4.9	1.9	0.97	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	1.9 U	4.9	1.9	1.3	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	1.9 U	4.9	1.9	0.97	ug/kg	
75-09-2	Methylene Chloride	15 U	19	15	11	ug/kg	
127-18-4	Tetrachloroethylene	1.9 U	4.9	1.9	1.2	ug/kg	
79-01-6	Trichloroethylene	1.9 U	4.9	1.9	0.97	ug/kg	
75-01-4	Vinyl Chloride [a]	1.9 U	4.9	1.9	0.97	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		75-124%
17060-07-0	1,2-Dichloroethane-D4	103%		72-135%
2037-26-5	Toluene-D8	99%		75-126%
460-00-4	4-Bromofluorobenzene	98%		71-133%

(a) Associated CCV and BS recovery outside 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

Report of Analysis

Client Sample ID:	2429MOU2088F		
Lab Sample ID:	FC17179-2	**Date Sampled:**	07/15/24
Matrix:	SO - Soil	**Date Received:**	07/16/24
		Percent Solids:	82.5
Project:	Soil Samples - Former Fort Ord, CA		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Moisture, Percent	17.5		%	1	07/17/24 15:40	SS	SM19 2540G

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- QC Evaluation: DOD QSM5.x Limits

Ahtna

CHAIN OF CUSTODY

WATER / SOIL FC17179

Chain of Custody #: 0059

Carbon Copies: White - Laboratory Yellow - Ahtna

Project Information:

Project Location: Former Fort Ord, CA Sampler/s: MARK FISLER

Project Name: EW-OU2-13-180 (OU2 COCs) Report To: Derek Lieberman

Project Number: 21065.000.01.0000 E-Mail: dlieberman@ahtna.net

Sampling Event/Site: SOLID IDW Laboratory: SGS

Analysis Requested

Lab Number	Sample Number/Description	Sample Collection Date	Sample Collection Time	Matrix: Water	Matrix: Soil	Matrix: Other	Total # of Bottles	Number of Preserved Bottles: HCl	HNO_3	H_2SO_4	NaOH	MeOH	$NaHSO_4$	None	Other	VOCs ~~8260 SIM~~ 8260D	Metals 6010 C	Chloride 9056A	% MOISTURE				TOTAL MASS	Notes
1	2429MOU2087F	7/15/24	1345		X											X			X					
2	2429MOU2088F	7/15/24	1410		X											X			X					

Turnaround Time: X : Standard ____ : 3-5 Day Rush ____ : 48 Hour Rush ____ : 24 Hour Rush

Shipment: Method: Tracking ID:

Comments:

INITIAL ASSESSMENT ZB

LABEL VERIFICATION

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time:	Received By:	Date/Time:
	7-15-24 1410		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:
			07/16/24 930

2.8 FR#1

FC17179: Chain of Custody

Page 1 of 2

SGS - Orlando Sample Receipt Summary

Job Number: fc17179 **Client:** AHTNA **Project:** EW-OU2-13-180

Date / Time Received: 7/16/2024 9:30:00 AM **Delivery Method:** FED EX **Airbill #'s:** 7914 8071 7029

Cooler Temps (Raw Measured) °C: Cooler 1: (2.8);

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 FROZEN AT 1125 ON 7/16/24

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 7/16/2024 11:08:05 AM Reviewer: Date:

QC Evaluation: DOD QSM5.x Limits

Job Number: FC17179
Account: Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA
Collected: 07/15/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
V3C1232	SW846 8260D						
V3C1232-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	70-135
V3C1232-BS	75-35-4	1,1-Dichloroethylene	BSP	REC	117	%	70-131
V3C1232-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	115	%	77-123
V3C1232-BS	156-60-5	trans-1,2-Dichloroethylene	BSP	REC	117	%	74-125
V3C1232-BS	75-09-2	Methylene Chloride	BSP	REC	111	%	70-128
V3C1232-BS	127-18-4	Tetrachloroethylene	BSP	REC	109	%	73-128
V3C1232-BS	79-01-6	Trichloroethylene	BSP	REC	116	%	77-123
V3C1232-BS	75-01-4	Vinyl Chloride	BSP	REC	144	%	56-135
V3C1232-BS	1868-53-7	Dibromofluoromethane	BSP	SURR	99	%	78-119
V3C1232-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	97	%	71-136
V3C1232-BS	2037-26-5	Toluene-D8	BSP	SURR	101	%	85-116
V3C1232-BS	460-00-4	4-Bromofluorobenzene	BSP	SURR	101	%	79-119
FC17088-3MS*	56-23-5	Carbon Tetrachloride	MS	REC	117	%	70-135
FC17088-3MS*	75-35-4	1,1-Dichloroethylene	MS	REC	118	%	70-131
FC17088-3MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	120	%	77-123
FC17088-3MS*	156-60-5	trans-1,2-Dichloroethylene	MS	REC	117	%	74-125
FC17088-3MS*	75-09-2	Methylene Chloride	MS	REC	117	%	70-128
FC17088-3MS*	127-18-4	Tetrachloroethylene	MS	REC	127	%	73-128
FC17088-3MS*	79-01-6	Trichloroethylene	MS	REC	117	%	77-123
FC17088-3MS*	75-01-4	Vinyl Chloride	MS	REC	150	%	56-135
FC17088-3MS*	1868-53-7	Dibromofluoromethane	MS	SURR	101	%	78-119
FC17088-3MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	102	%	71-136
FC17088-3MS*	2037-26-5	Toluene-D8	MS	SURR	98	%	85-116
FC17088-3MS*	460-00-4	4-Bromofluorobenzene	MS	SURR	98	%	79-119
FC17088-3MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	109	%	70-135
FC17088-3MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	7	%	20
FC17088-3MSD*	75-35-4	1,1-Dichloroethylene	MSD	REC	110	%	70-131
FC17088-3MSD*	75-35-4	1,1-Dichloroethylene	MSD	RPD	7	%	20
FC17088-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	113	%	77-123
FC17088-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	5	%	20
FC17088-3MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	REC	109	%	74-125
FC17088-3MSD*	156-60-5	trans-1,2-Dichloroethylene	MSD	RPD	7	%	20
FC17088-3MSD*	75-09-2	Methylene Chloride	MSD	REC	109	%	70-128
FC17088-3MSD*	75-09-2	Methylene Chloride	MSD	RPD	7	%	20
FC17088-3MSD*	127-18-4	Tetrachloroethylene	MSD	REC	121	%	73-128
FC17088-3MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	5	%	20
FC17088-3MSD*	79-01-6	Trichloroethylene	MSD	REC	108	%	77-123
FC17088-3MSD*	79-01-6	Trichloroethylene	MSD	RPD	4	%	20
FC17088-3MSD*	75-01-4	Vinyl Chloride	MSD	REC	136	%	56-135
FC17088-3MSD*	75-01-4	Vinyl Chloride	MSD	RPD	10	%	20
FC17088-3MSD*	1868-53-7	Dibromofluoromethane	MSD	SURR	100	%	78-119
FC17088-3MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	99	%	71-136

* Sample used for QC is not from job FC17179

QC Evaluation: DOD QSM5.x Limits

Job Number: FC17179
Account: Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA
Collected: 07/15/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC17088-3MSD*	2037-26-5	Toluene-D8	MSD	SURR	97	%	85-116
FC17088-3MSD*	460-00-4	4-Bromofluorobenzene	MSD	SURR	101	%	79-119
V3C1232-MB	1868-53-7	Dibromofluoromethane	MB	SURR	95	%	78-119
V3C1232-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	96	%	71-136
V3C1232-MB	2037-26-5	Toluene-D8	MB	SURR	100	%	85-116
V3C1232-MB	460-00-4	4-Bromofluorobenzene	MB	SURR	103	%	79-119
FC17179-1	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	78-119
FC17179-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	101	%	71-136
FC17179-1	2037-26-5	Toluene-D8	SAMP	SURR	98	%	85-116
FC17179-1	460-00-4	4-Bromofluorobenzene	SAMP	SURR	103	%	79-119
FC17179-2	1868-53-7	Dibromofluoromethane	SAMP	SURR	98	%	78-119
FC17179-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	103	%	71-136
FC17179-2	2037-26-5	Toluene-D8	SAMP	SURR	99	%	85-116
FC17179-2	460-00-4	4-Bromofluorobenzene	SAMP	SURR	98	%	79-119

* Sample used for QC is not from job FC17179

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: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C1232-MB	3C193003.D	1	07/17/24	DB	n/a	n/a	V3C1232

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC17179-1, FC17179-2

CAS No.	Compound	Result	RL	MDL	Units	Q
56-23-5	Carbon Tetrachloride	ND	5.0	1.0	ug/kg	
75-35-4	1,1-Dichloroethylene	ND	5.0	1.0	ug/kg	
156-59-2	cis-1,2-Dichloroethylene	ND	5.0	1.4	ug/kg	
156-60-5	trans-1,2-Dichloroethylene	ND	5.0	1.0	ug/kg	
75-09-2	Methylene Chloride	ND	20	11	ug/kg	
127-18-4	Tetrachloroethylene	ND	5.0	1.3	ug/kg	
79-01-6	Trichloroethylene	ND	5.0	1.0	ug/kg	
75-01-4	Vinyl Chloride	ND	5.0	1.0	ug/kg	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	95%	75-124%
17060-07-0	1,2-Dichloroethane-D4	96%	72-135%
2037-26-5	Toluene-D8	100%	75-126%
460-00-4	4-Bromofluorobenzene	103%	71-133%

Blank Spike Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V3C1232-BS	3C193002.D	1	07/17/24	DB	n/a	n/a	V3C1232

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC17179-1, FC17179-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
56-23-5	Carbon Tetrachloride	50	59.2	118	78-133
75-35-4	1,1-Dichloroethylene	50	58.5	117	81-136
156-59-2	cis-1,2-Dichloroethylene	50	57.7	115	74-126
156-60-5	trans-1,2-Dichloroethylene	50	58.3	117	70-127
75-09-2	Methylene Chloride	50	55.6	111	74-137
127-18-4	Tetrachloroethylene	50	54.4	109	79-130
79-01-6	Trichloroethylene	50	58.0	116	75-128
75-01-4	Vinyl Chloride	50	72.2	144*	76-141

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	75-124%
17060-07-0	1,2-Dichloroethane-D4	97%	72-135%
2037-26-5	Toluene-D8	101%	75-126%
460-00-4	4-Bromofluorobenzene	101%	71-133%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC17088-3MS	3C193014.D	1	07/17/24	DB	n/a	n/a	V3C1232
FC17088-3MSD	3C193015.D	1	07/17/24	DB	n/a	n/a	V3C1232
FC17088-3	3C193013.D	1	07/17/24	DB	n/a	n/a	V3C1232

The QC reported here applies to the following samples: **Method:** SW846 8260D

FC17179-1, FC17179-2

CAS No.	Compound	FC17088-3 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
56-23-5	Carbon Tetrachloride	8700	U	87000	102000	117	87000	94700	109	7	78-133/29
75-35-4	1,1-Dichloroethylene	8700	U	87000	103000	118	87000	95900	110	7	81-136/28
156-59-2	cis-1,2-Dichloroethylene	15400		87000	120000	120	87000	114000	113	5	74-126/26
156-60-5	trans-1,2-Dichloroethylene	8700	U	87000	102000	117	87000	95100	109	7	70-127/27
75-09-2	Methylene Chloride	35000	U	87000	102000	117	87000	94900	109	7	74-137/28
127-18-4	Tetrachloroethylene	8700	U	87000	110000	127	87000	105000	121	5	79-130/31
79-01-6	Trichloroethylene	100000		87000	202000	117	87000	194000	108	4	75-128/27
75-01-4	Vinyl Chloride	8700	U	87000	130000	150*	87000	118000	136	10	76-141/27

CAS No.	Surrogate Recoveries	MS	MSD	FC17088-3	Limits
1868-53-7	Dibromofluoromethane	101%	100%	99%	75-124%
17060-07-0	1,2-Dichloroethane-D4	102%	99%	106%	72-135%
2037-26-5	Toluene-D8	98%	97%	99%	75-126%
460-00-4	4-Bromofluorobenzene	98%	101%	98%	71-133%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-BFB
Lab File ID: 3C192745.D
Instrument ID: GCMS3C
Injection Date: 06/27/24
Injection Time: 12:56

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	55669	100.0		Pass
96	5.0 - 9.0% of mass 95	3899	7.00		Pass
173	Less than 2.0% of mass 174	354	0.64	(0.76) [a]	Pass
174	50.0 - 200.0% of mass 95	46437	83.4		Pass
175	5.0 - 9.0% of mass 174	3529	6.34	(7.60) [a]	Pass
176	95.0 - 105.0% of mass 174	46776	84.0	(100.7) [a]	Pass
177	5.0 - 10.0% of mass 176	3180	5.71	(6.80) [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
V3C1220-IC1220	3C192746.D	06/27/24	14:32	01:36	Initial cal 1
V3C1220-IC1220	3C192747.D	06/27/24	14:56	02:00	Initial cal 2
V3C1220-IC1220	3C192748.D	06/27/24	15:20	02:24	Initial cal 3
V3C1220-IC1220	3C192749.D	06/27/24	15:45	02:49	Initial cal 4
V3C1220-ICC1220	3C192750.D	06/27/24	16:09	03:13	Initial cal 5
V3C1220-IC1220	3C192751.D	06/27/24	16:33	03:37	Initial cal 6
V3C1220-IC1220	3C192752.D	06/27/24	16:57	04:01	Initial cal 7
V3C1220-ICV1220	3C192754.D	06/27/24	17:46	04:50	Initial cal verification 5

Instrument Performance Check (BFB)

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-BFB
Lab File ID: 3C193000.D
Instrument ID: GCMS3C
Injection Date: 07/17/24
Injection Time: 10:26

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	51243	100.0		Pass
96	5.0 - 9.0% of mass 95	3412	6.66		Pass
173	Less than 2.0% of mass 174	320	0.62	(0.77) [a]	Pass
174	50.0 - 200.0% of mass 95	41784	81.5		Pass
175	5.0 - 9.0% of mass 174	3340	6.52	(7.99) [a]	Pass
176	95.0 - 105.0% of mass 174	42901	83.7	(102.7) [a]	Pass
177	5.0 - 10.0% of mass 176	2561	5.00	(5.97) [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
V3C1232-CC1220	3C193001.D	07/17/24	10:59	00:33	Continuing cal 5
V3C1232-BS	3C193002.D	07/17/24	11:35	01:09	Blank Spike
V3C1232-MB	3C193003.D	07/17/24	12:10	01:44	Method Blank
ZZZZZZ	3C193005.D	07/17/24	12:46	02:20	(unrelated sample)
ZZZZZZ	3C193006.D	07/17/24	13:10	02:44	(unrelated sample)
ZZZZZZ	3C193007.D	07/17/24	13:35	03:09	(unrelated sample)
FC17179-1	3C193008.D	07/17/24	13:59	03:33	2429MOU2087F
FC17179-2	3C193009.D	07/17/24	14:23	03:57	2429MOU2088F
ZZZZZZ	3C193010.D	07/17/24	14:47	04:21	(unrelated sample)
ZZZZZZ	3C193011.D	07/17/24	15:11	04:45	(unrelated sample)
ZZZZZZ	3C193012.D	07/17/24	15:36	05:10	(unrelated sample)
FC17088-3	3C193013.D	07/17/24	16:00	05:34	(used for QC only; not part of job FC17179)
FC17088-3MS	3C193014.D	07/17/24	16:24	05:58	Matrix Spike
FC17088-3MSD	3C193015.D	07/17/24	16:48	06:22	Matrix Spike Duplicate
V3C1232-ECC1220	3C193016.D	07/17/24	17:12	06:46	Ending cal 5

Internal Standard Area Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Check Std:	V3C1232-CC1220	**Injection Date:**	07/17/24
Lab File ID:	3C193001.D	**Injection Time:**	10:59
Instrument ID:	GCMS3C	**Method:**	SW846 8260D

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
Initial Cal [a]	249633	8.63	189705	11.43	97420	13.07
Check Std [b]	242943	8.63	183649	11.43	95084	13.07
Upper Limit [c]	485886	8.80	367298	11.60	190168	13.24
Lower Limit [d]	121472	8.46	91825	11.26	47542	12.90

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT
V3C1232-BS	237167	8.63	178763	11.43	91241	13.07
V3C1232-MB	221876	8.63	167980	11.43	82874	13.07
ZZZZZZ	201975	8.63	139887	11.43	54340	13.07
ZZZZZZ	207631	8.63	146884	11.43	58121	13.07
ZZZZZZ	209567	8.63	155028	11.43	65496	13.07
FC17179-1	201508	8.63	155325	11.43	74116	13.07
FC17179-2	202222	8.63	154040	11.43	74104	13.07
ZZZZZZ	210960	8.63	161203	11.43	78477	13.07
ZZZZZZ	203354	8.63	154217	11.43	75170	13.07
ZZZZZZ	198468	8.63	150746	11.43	72762	13.07
FC17088-3	200076	8.63	153232	11.43	74384	13.07
FC17088-3MS	217613	8.63	168702	11.43	85521	13.07
FC17088-3MSD	223354	8.63	169672	11.43	85551	13.07
V3C1232-ECC1220	224573	8.63	171448	11.43	87366	13.07

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5
IS 3 = 1,4-Dichlorobenzene-d4

(a) Initial Cal is: V3C1220-ICC1220 3C192750.D 06/27/24 16:09
(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.

Surrogate Recovery Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Method: SW846 8260D **Matrix:** SO

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4
FC17179-1	3C193008.D	98	101	98	103
FC17179-2	3C193009.D	98	103	99	98
FC17088-3MS	3C193014.D	101	102	98	98
FC17088-3MSD	3C193015.D	100	99	97	101
V3C1232-BS	3C193002.D	99	97	101	101
V3C1232-MB	3C193003.D	95	96	100	103

Surrogate Compounds	Recovery Limits
S1 = Dibromofluoromethane	75-124%
S2 = 1,2-Dichloroethane-D4	72-135%
S3 = Toluene-D8	75-126%
S4 = 4-Bromofluorobenzene	71-133%

Initial Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICC1220
Lab FileID: 3C192750.D

Response Factor Report MSVOA19-3C

Method : C:\msdchem\1\met...3C1220_062724_.M (RTE Integrator)
Title : SW-846 Method 5035A/8260
Last Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Calibration Files
1 =3C192746.D 2 =3C192747.D 3 =3C192748.D 4 =3C192749.D
5 =3C192750.D 6 =3C192751.D 7 =3C192752.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Dichlorodifluorom	0.207	0.234	0.238	0.221	0.209	0.197	0.201	0.215	7.43
3)P Chloromethane	0.428	0.435	0.442	0.423	0.402	0.378	0.383	0.413	6.18
4) 1,3-Butadiene	0.284	0.338	0.360	0.356	0.362	0.340	0.346	0.341	7.89
5)C Vinyl Chloride	0.253	0.307	0.318	0.321	0.321	0.307	0.317	0.306	7.94
6) Bromomethane	0.146	0.137	0.128	0.126	0.124	0.131	0.140	0.133	6.14
7) Chloroethane	0.054	0.072	0.075	0.075	0.075	0.070	0.068	0.070	10.81
8) Trichlorofluorome	0.385	0.431	0.441	0.440	0.444	0.420		0.427	5.22
9) Ethyl Ether	0.227	0.279	0.306	0.308	0.317	0.308	0.323	0.295	11.23
10) Ethanol	0.004	0.006	0.006	0.006	0.007	0.007	0.007	0.006	17.29
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.00652 *A + 0.00001 *A^2									
11) 1,2-Dichlorotrifl	0.323	0.385	0.401	0.388	0.391	0.379	0.389	0.380	6.83
12)C 1,1-Dichloroethen	0.411	0.508	0.519	0.511	0.524	0.505	0.525	0.501	8.04
13) Freon 113	0.279	0.335	0.337	0.341	0.347	0.336	0.344	0.331	7.11
14) Carbon Disulfide	0.718	0.848	0.913	0.923	0.949	0.951	0.985	0.898	10.04
15) Iodomethane	0.166	0.252	0.343	0.362	0.401	0.407	0.379	0.330	26.94
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9990									
Response Ratio = 0.00000 + 0.40570 *A + -0.00629 *A^2									
16) Allyl chloride	0.420	0.515	0.558	0.561	0.574	0.564	0.562	0.537	10.18
17) Acrolein	0.051	0.063	0.070	0.070	0.070	0.072	0.073	0.067	11.69
18) Methylene Chlorid	1.421	0.944	0.746	0.664	0.627	0.527	0.528	0.780	40.67
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9958									
Response Ratio = 0.00000 + 0.61536 *A + -0.02287 *A^2									
19) Acetone	0.126	0.131	0.129	0.128	0.125	0.124	0.128	0.127	1.84
20) Methyl acetate	0.250	0.309	0.312	0.315	0.324	0.316	0.327	0.308	8.55
21) trans-1,2-Dichlor	0.435	0.503	0.516	0.515	0.532	0.511	0.524	0.505	6.39
22) Hexane	0.408	0.350	0.373	0.364	0.349	0.324	0.283	0.350	11.20
23) Methyl Tert Butyl	0.654	0.822	0.861	0.862	0.917	0.900	0.955	0.853	11.48
24) Tert butyl alcoho	0.040	0.047	0.051	0.053	0.055	0.057	0.063	0.052	13.88
25) Acetonitrile	0.057	0.054	0.052	0.052	0.052	0.051	0.053	0.053	3.85
26) Di-isopropyl ethe	0.918	1.178	1.252	1.265	1.319	1.287	1.323	1.220	11.63
27) Chloroprene	0.353	0.462	0.496	0.498	0.516	0.520	0.541	0.484	12.94
28)P 1,1-Dichloroethan	0.530	0.627	0.658	0.648	0.666	0.650	0.664	0.635	7.57
29) Acrylonitrile	0.111	0.137	0.145	0.148	0.150	0.147	0.152	0.141	10.17
30) ETBE	0.749	0.935	1.004	1.023	1.082	1.058	1.115	0.995	12.37
31) Vinyl acetate	0.621	0.743	0.803	0.781	0.814	0.744	0.728	0.748	8.64
32) cis-1,2-Dichloroe	0.269	0.340	0.360	0.364	0.375	0.367	0.381	0.351	10.89
33) 2,2-Dichloropropa	0.315	0.403	0.425	0.421	0.435	0.441	0.454	0.414	11.21
34) Bromochloromethan	0.143	0.174	0.181	0.183	0.196	0.188	0.194	0.180	9.91
35) Cyclohexane	0.526	0.635	0.674	0.666	0.685	0.666	0.680	0.647	8.64
36)C Chloroform	0.464	0.568	0.571	0.569	0.576	0.571	0.586	0.558	7.53
37) Ethyl acetate	0.327	0.388	0.406	0.410	0.419	0.412	0.418	0.397	8.17

Initial Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICC1220
Lab FileID: 3C192750.D

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38)  Tetrahydrofuran   0.125 0.149 0.148 0.154 0.153 0.159 0.151 0.149   7.41
39)S Dibromofluorometh 0.244 0.250 0.254 0.258 0.260 0.262 0.267 0.256   3.05
40)  Carbon Tetrachlor 0.365 0.423 0.435 0.451 0.470 0.470 0.484 0.443   9.09
41)  1,1,1-Trichloroet 0.422 0.479 0.505 0.512 0.520 0.509 0.535 0.498   7.54
42)  2-Butanone        0.174 0.200 0.210 0.205 0.209 0.210 0.215 0.203   6.73
43)  1,1-Dichloroprope 0.346 0.440 0.452 0.449 0.455 0.446 0.459 0.435   9.20
44)  tert-Butyl Format 0.139 0.178 0.195 0.202 0.226 0.227 0.256 0.203  18.76
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.20154 *A + 0.00270 *A^2

45)  Propionitrile     0.048 0.057 0.059 0.058 0.058 0.058 0.058 0.056   7.04
46)  Methacrylonitrile 0.200 0.240 0.242 0.244 0.247 0.230 0.220 0.232   7.28
47)  Benzene           1.113 1.318 1.345 1.345 1.357 1.317 1.351 1.306   6.64
48)  TAME              0.609 0.740 0.805 0.824 0.867 0.857 0.915 0.803  12.64
49)S 1,2-Dichloroethan 0.283 0.285 0.276 0.278 0.281 0.278 0.274 0.279   1.38
50)  1,2-Dichloroethan 0.385 0.449 0.473 0.470 0.487 0.467 0.478 0.458   7.47
51)  Isobutyl alcohol  0.007 0.010 0.012 0.012 0.013 0.014 0.015 0.012  21.78
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.01215 *A + 0.00004 *A^2

52)  Tert Amyl Alcohol 0.022 0.030 0.033 0.034 0.036 0.039 0.044 0.034  20.42
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.03316 *A + 0.00028 *A^2

53)  Trichloroethene   0.295 0.353 0.357 0.357 0.362 0.359 0.366 0.350   7.05
54)  Methylcyclohexane 0.468 0.577 0.597 0.596 0.607 0.592 0.602 0.577   8.52
55)  Dibromomethane    0.149 0.189 0.198 0.205 0.210 0.204 0.214 0.196  11.25
56)C 1,2-Dichloropropa 0.283 0.333 0.352 0.349 0.362 0.352 0.361 0.342   8.11
57)  Bromodichlorometh 0.279 0.368 0.392 0.398 0.428 0.423 0.450 0.391  14.43
58)  Methyl methacryla 0.194 0.256 0.292 0.312 0.334 0.335 0.354 0.297  18.74
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.31309 *A + 0.01033 *A^2

59)  1,4-Dioxane       0.003 0.004 0.005 0.005 0.005 0.005 0.006 0.005  20.12
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.00461 *A + 0.00001 *A^2

60)  2-Chloroethyl vin                          0.000 0.001 0.001 0.001  68.44
61)  cis-1,3-Dichlorop 0.336 0.438 0.476 0.500 0.533 0.521 0.542 0.478  15.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.50286 *A + 0.00988 *A^2


62) I   Chlorobenzene-d5      ----------------ISTD--------------------
63)S Toluene-d8        1.242 1.252 1.250 1.253 1.275 1.300 1.286 1.266   1.72
64)C Toluene           1.639 1.847 1.900 1.882 1.915 1.883 1.902 1.853   5.21
65)  2-Nitropropane    0.070 0.096 0.110 0.118 0.126 0.131 0.137 0.113  20.56
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.12071 *A + 0.00084 *A^2

66)  4-Methyl-2-pentan 0.433 0.519 0.545 0.551 0.557 0.524 0.489 0.517   8.41
67)  trans-1,3-Dichlor 0.424 0.550 0.588 0.621 0.651 0.640 0.663 0.591  14.12
68)  Tetrachloroethene 0.474 0.591 0.613 0.651 0.664 0.700 0.674 0.624  12.11
69)  Ethyl methacrylat 0.295 0.417 0.452 0.495 0.546 0.530 0.559 0.470  19.72
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.50343 *A + 0.01387 *A^2

70)  1,1,2-Trichloroet 0.269 0.321 0.329 0.326 0.335 0.324 0.333 0.319   7.08
71)  Dibromochlorometh 0.314 0.381 0.434 0.450 0.477 0.485 0.516 0.437  15.80
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
```

Initial Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICC1220
Lab FileID: 3C192750.D

```
                Response Ratio = 0.00000 + 0.45077 *A + 0.01639 *A^2

 72)  1,3-Dichloropropa 0.528 0.608 0.636 0.655 0.674 0.653 0.665 0.631   7.97
 73)  1,2-Dibromoethane 0.311 0.383 0.423 0.420 0.443 0.442 0.458 0.411  12.21
 74)  3,3-dimethyl-1-bu 0.040 0.055 0.063 0.066 0.068 0.070 0.066 0.061  17.34
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.06967 *A + -0.00002 *A^2

 75)  2-hexanone        0.385 0.477 0.509 0.516 0.516 0.501 0.452 0.479   9.98
 76)  1-Chlorohexane    0.494 0.592 0.635 0.629 0.640 0.626 0.634 0.607   8.63
 77)C Ethylbenzene      1.768 2.104 2.137 2.103 2.112 2.051 2.027 2.043   6.22
 78)P Chlorobenzene     1.125 1.258 1.298 1.285 1.302 1.245 1.242 1.251   4.86
 79)  1,1,1,2-Tetrachlo 0.348 0.428 0.454 0.463 0.477 0.477 0.496 0.449  10.99
 80)  m,p-Xylene        1.356 1.594 1.664 1.623 1.636 1.598 1.560 1.576   6.49
 81)  o-Xylene          1.257 1.518 1.645 1.640 1.693 1.639 1.672 1.580   9.68
 82)  Styrene           0.849 1.146 1.226 1.271 1.327 1.315 1.374 1.215  14.63
 83)P Bromoform         0.176 0.223 0.248 0.281 0.302 0.316 0.366 0.273  23.17
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.26661 *A + 0.02491 *A^2

 84)  Isopropylbenzene  1.600 1.975 2.101 2.070 2.113 2.064 2.127 2.007   9.28

 85) I   1,4-Dichlorobenzene-d ----------------ISTD--------------------
 86)S 4-Bromofluorobenz 0.780 0.809 0.778 0.778 0.779 0.750 0.769 0.778   2.25
 87)  cis-1,4-Dichloro- 0.260 0.361 0.375 0.376 0.395 0.363 0.408 0.363  13.28
 88)  n-Propylbenzene   3.870 4.856 4.790 4.742 4.722 4.376 4.412 4.538   7.67
 89)  Bromobenzene      0.946 1.083 1.120 1.094 1.101 1.046 1.083 1.068   5.46
 90)P 1,1,2,2-Tetrachlo 0.843 1.031 1.024 1.013 1.044 0.996 1.078 1.004   7.54
 91)  1,3,5-Trimethylbe 2.566 3.221 3.360 3.330 3.356 3.197 3.224 3.179   8.78
 92)  2-Chlorotoluene   2.582 3.184 3.172 3.077 3.058 2.840 2.831 2.963   7.45
 93)  trans-1,4-Dichlor 0.225 0.304 0.334 0.357 0.348 0.342 0.369 0.326  15.04
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
                Response Ratio = 0.00000 + 0.32778 *A + 0.01017 *A^2

 94)  1,2,3-Trichloropr 0.254 0.317 0.298 0.309 0.317 0.292 0.322 0.301   7.76
 95)  Cyclohexanone     0.041 0.064 0.066 0.067 0.071 0.073 0.077 0.065  17.59
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
                Response Ratio = 0.00000 + 0.06849 *A + 0.00041 *A^2

 96)  4-Chlorotoluene   2.393 2.861 2.957 2.841 2.849 2.674 2.755 2.761   6.70
 97)  tert-Butylbenzene 1.474 1.859 1.879 1.838 1.853 1.760 1.817 1.783   7.92
 98)  1,2,4-Trimethylbe 2.534 3.256 3.367 3.286 3.328 3.190 3.268 3.176   9.08
 99)  Pentachloroethane 0.401 0.465 0.475 0.439 0.458 0.384 0.427 0.436   7.81
100)  sec-Butylbenzene  3.507 4.350 4.449 4.361 4.375 4.220 4.359 4.231   7.72
101)  4-Isopropyltoluen 2.826 3.706 3.758 3.751 3.777 3.694 3.844 3.623   9.79
102)  1,3-Dichlorobenze 1.726 2.029 2.036 2.019 2.026 1.955 2.069 1.980   5.91
103)  1,2,3-Trimethylbe 2.722 3.327 3.445 3.445 3.504 3.386 3.484 3.330   8.25
104)  1,4-Dichlorobenze 1.812 2.052 2.080 2.027 2.039 1.969 2.039 2.003   4.53
105)  n-Butylbenzene    1.380 1.802 1.880 1.845 1.883 1.877 1.942 1.801  10.58
106)  Benzyl Chloride   0.200 0.291 0.348 0.371 0.421 0.435 0.496 0.366  26.94
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
                Response Ratio = 0.00000 + 0.37172 *A + 0.03106 *A^2

107)  1,2-Dichlorobenze 1.569 1.847 1.888 1.899 1.918 1.876 2.026 1.860   7.54
108)  1,2-Dibromo-3-Chl 0.099 0.153 0.160 0.176 0.190 0.195 0.217 0.170  22.23
              ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
                Response Ratio = 0.00000 + 0.17243 *A + 0.01109 *A^2

109)  Hexachlorobutadie 0.636 0.757 0.757 0.747 0.784 0.761 0.780 0.746   6.72
110)  1,2,4-Trichlorobe 1.112 1.343 1.403 1.423 1.489 1.469 1.515 1.394   9.82
```

Initial Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICC1220
Lab FileID: 3C192750.D

111)	Naphthalene	2.565	3.233	3.510	3.654	3.876	3.815	4.021	3.525	14.08
112)	1,2,3-Trichlorobe	1.140	1.374	1.441	1.451	1.479	1.437	1.482	1.401	8.59

(#) = Out of Range

V3C1220_062724_.M Fri Jun 28 09:35:33 2024

Initial Calibration Verification

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICV1220
Lab FileID: 3C192754.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2024-06-27\3C192754.D Vial: 10
Acq On : 27 Jun 2024 5:46 pm Operator: davidb2
Sample : ICV1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\met...3C1220_062724_.M (RTE Integrator)
Title : SW-846 Method 5035A/8260
Last Update : Fri Jun 28 09:30:23 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	8.63
2		Dichlorodifluoromethane	0.215	0.220	-2.3	105	0.00	2.23
3	P	Chloromethane	0.413	0.432	-4.6	107	0.00	2.49
4		1,3-Butadiene	0.341	0.367	-7.6	101	0.00	2.63
5	C	Vinyl Chloride	0.306	0.312	-2.0	97	0.00	2.61
6		Bromomethane	0.133	0.122	8.3	97	0.00	3.05
7		Chloroethane	0.070	0.068	2.9	89	0.00	3.21
8		Trichlorofluoromethane	0.427	0.421	1.4	94	0.00	3.39
9		Ethyl Ether	0.295	0.303	-2.7	95	0.00	3.83
		----------	Amount	Calc.	%Drift	----------		
10		Ethanol	1000.000	985.847	1.4	97	0.00	4.08
		----------	AvgRF	CCRF	%Dev	----------		
11		1,2-Dichlorotrifluoroetha	0.380	0.377	0.8	96	0.00	4.10
12	C	1,1-Dichloroethene	0.501	0.510	-1.8	97	0.00	4.08
13		Freon 113	0.331	0.334	-0.9	96	0.00	4.14
14		Carbon Disulfide	0.898	0.788	12.2	83	0.00	4.12
		----------	Amount	Calc.	%Drift	----------		
15		Iodomethane	50.000	44.234	11.5	88	0.00	4.28
		----------	AvgRF	CCRF	%Dev	----------		
16		Allyl chloride	0.537	0.600	-11.7	104	0.00	4.74
17		Acrolein	0.067	0.065	3.0	92	0.00	4.56
		----------	Amount	Calc.	%Drift	----------		
18		Methylene Chloride	50.000	53.260	-6.5	100	0.00	4.89
		----------	AvgRF	CCRF	%Dev	----------		
19		Acetone	0.127	0.134	-5.5	107	0.00	4.97
20		Methyl acetate	0.308	0.346	-12.3	106	0.00	5.14
21		trans-1,2-Dichloroethene	0.505	0.524	-3.8	98	0.00	5.12
22		Hexane	0.350	0.320	8.6	91	0.00	5.22
23		Methyl Tert Butyl Ether	0.853	0.919	-7.7	100	0.00	5.28
24		Tert butyl alcohol	0.052	0.057	-9.6	104	0.00	5.45
25		Acetonitrile	0.053	0.055	-3.8	105	0.00	5.64
26		Di-isopropyl ether	1.220	1.251	-2.5	94	0.00	5.83
27		Chloroprene	0.484	0.550	-13.6	106	0.00	5.98
28	P	1,1-Dichloroethane	0.635	0.646	-1.7	97	0.00	6.02
29		Acrylonitrile	0.141	0.162	-14.9	107	0.00	6.11
30		ETBE	0.995	1.042	-4.7	96	0.00	6.39

Initial Calibration Verification

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICV1220
Lab FileID: 3C192754.D

31		Vinyl acetate	0.748	0.711	4.9	87	0.00	6.42
32		cis-1,2-Dichloroethene	0.351	0.366	-4.3	97	0.00	6.86
33		2,2-Dichloropropane	0.414	0.449	-8.5	103	0.00	7.03
34		Bromochloromethane	0.180	0.191	-6.1	97	0.00	7.19
35		Cyclohexane	0.647	0.640	1.1	93	0.00	7.17
36	C	Chloroform	0.558	0.580	-3.9	100	0.00	7.31
37		Ethyl acetate	0.397	0.433	-9.1	103	0.00	7.52
38		Tetrahydrofuran	0.149	0.152	-2.0	99	0.00	7.57
39	S	Dibromofluoromethane	0.256	0.258	-0.8	99	0.00	7.60
40		Carbon Tetrachloride	0.443	0.454	-2.5	96	0.00	7.51
41		1,1,1-Trichloroethane	0.498	0.521	-4.6	100	0.00	7.61
42		2-Butanone	0.203	0.197	3.0	94	0.00	7.78
43		1,1-Dichloropropene	0.435	0.457	-5.1	100	0.00	7.80
			Amount	Calc.	%Drift			
44		tert-Butyl Formate	250.000	231.159	7.5	87	0.00	7.96
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.056	0.062	-10.7	106	0.00	8.17
46		Methacrylonitrile	0.232	0.252	-8.6	102	0.00	8.19
47		Benzene	1.306	1.356	-3.8	100	0.00	8.13
48		TAME	0.803	0.833	-3.7	96	0.00	8.28
49	S	1,2-Dichloroethane-d4	0.279	0.274	1.8	97	0.00	8.30
50		1,2-Dichloroethane	0.458	0.475	-3.7	97	0.00	8.38
			Amount	Calc.	%Drift			
51		Isobutyl alcohol	1000.000	1086.038	-8.6	109	0.00	8.44
52		Tert Amyl Alcohol	500.000	544.398	-8.9	108	0.00	8.54
			AvgRF	CCRF	%Dev			
53		Trichloroethene	0.350	0.368	-5.1	101	0.00	8.82
54		Methylcyclohexane	0.577	0.586	-1.6	96	0.00	8.80
55		Dibromomethane	0.196	0.213	-8.7	101	0.00	9.27
56	C	1,2-Dichloropropane	0.342	0.373	-9.1	103	0.00	9.36
57		Bromodichloromethane	0.391	0.411	-5.1	96	0.00	9.43
			Amount	Calc.	%Drift			
58		Methyl methacrylate	50.000	53.770	-7.5	104	0.00	9.58
59		1,4-Dioxane	1000.000	1080.103	-8.0	104	0.00	9.63
			AvgRF	CCRF	%Dev			
60		2-Chloroethyl vinyl ether	0.001	0.000	100.0#	215#	0.02	9.92
			Amount	Calc.	%Drift			
61		cis-1,3-Dichloropropene	50.000	51.223	-2.4	98	0.00	10.02
			AvgRF	CCRF	%Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	100	0.00	11.43
63	S	Toluene-d8	1.266	1.282	-1.3	100	0.00	10.17
64	C	Toluene	1.853	1.898	-2.4	99	0.00	10.22
			Amount	Calc.	%Drift			
65		2-Nitropropane	250.000	270.080	-8.0	107	0.00	10.43
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.517	0.558	-7.9	100	0.00	10.54
67		trans-1,3-Dichloropropene	0.591	0.596	-0.8	91	0.00	10.58
68		Tetrachloroethene	0.624	0.713	-14.3	107	0.00	10.55

Initial Calibration Verification

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICV1220
Lab FileID: 3C192754.D

			Amount	Calc.	%Drift			
69		Ethyl methacrylate	50.000	51.840	-3.7	98	0.00	10.69
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.319	0.331	-3.8	99	0.00	10.71
			Amount	Calc.	%Drift			
71		Dibromochloromethane	50.000	51.310	-2.6	100	0.00	10.86
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.631	0.704	-11.6	104	0.00	10.93
73		1,2-Dibromoethane	0.411	0.438	-6.6	98	0.00	11.05
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2500.000	2467.893	1.3	99	0.00	11.18
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.479	0.525	-9.6	101	0.00	11.20
76		1-Chlorohexane	0.607	0.617	-1.6	96	0.00	11.41
77	C	Ethylbenzene	2.043	2.081	-1.9	98	0.00	11.45
78	P	Chlorobenzene	1.251	1.275	-1.9	97	0.00	11.44
79		1,1,1,2-Tetrachloroethane	0.449	0.475	-5.8	99	0.00	11.48
80		m,p-Xylene	1.576	1.606	-1.9	98	0.00	11.55
81		o-Xylene	1.580	1.592	-0.8	94	0.00	11.87
82		Styrene	1.215	1.319	-8.6	99	0.00	11.91
			Amount	Calc.	%Drift			
83	P	Bromoform	50.000	50.323	-0.6	97	0.00	11.95
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	2.007	2.055	-2.4	97	0.00	12.08
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00	13.07
86	S	4-Bromofluorobenzene	0.778	0.784	-0.8	100	0.00	12.30
87		cis-1,4-Dichloro-2-butene	0.363	0.398	-9.6	100	0.00	12.34
88		n-Propylbenzene	4.538	4.488	1.1	95	0.00	12.37
89		Bromobenzene	1.068	1.141	-6.8	103	0.00	12.39
90	P	1,1,2,2-Tetrachloroethane	1.004	1.030	-2.6	99	0.00	12.43
91		1,3,5-Trimethylbenzene	3.179	3.288	-3.4	98	0.00	12.50
92		2-Chlorotoluene	2.963	2.970	-0.2	97	0.00	12.50
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	50.000	51.419	-2.8	100	0.00	12.55
			AvgRF	CCRF	%Dev			
94		1,2,3-Trichloropropane	0.301	0.331	-10.0	104	0.00	12.53
			Amount	Calc.	%Drift			
95		Cyclohexanone	250.000	162.175	35.1#	64	0.00	12.58
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.761	2.737	0.9	96	0.00	12.61
97		tert-Butylbenzene	1.783	1.801	-1.0	97	0.00	12.72
98		1,2,4-Trimethylbenzene	3.176	3.249	-2.3	97	0.00	12.77
99		Pentachloroethane	0.436	0.375	14.0	82	0.00	12.77
100		sec-Butylbenzene	4.231	4.087	3.4	93	0.00	12.84
101		4-Isopropyltoluene	3.623	3.614	0.2	96	0.00	12.93
102		1,3-Dichlorobenzene	1.980	1.935	2.3	95	0.00	13.03
103		1,2,3-Trimethylbenzene	3.330	3.363	-1.0	96	0.00	13.07
104		1,4-Dichlorobenzene	2.003	1.986	0.8	97	0.00	13.08

Initial Calibration Verification

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1220-ICV1220
Lab FileID: 3C192754.D

105	n-Butylbenzene	1.801	1.890	-4.9	100	0.00	13.22
	----------	Amount	Calc.	%Drift	----------		
106	Benzyl Chloride	50.000	49.620	0.8	95	0.00	13.24
	----------	AvgRF	CCRF	%Dev	----------		
107	1,2-Dichlorobenzene	1.860	1.866	-0.3	97	0.00	13.37
	----------	Amount	Calc.	%Drift	----------		
108	1,2-Dibromo-3-Chloropropa	50.000	52.952	-5.9	103	0.00	13.91
	----------	AvgRF	CCRF	%Dev	----------		
109	Hexachlorobutadiene	0.746	0.775	-3.9	99	0.00	14.30
110	1,2,4-Trichlorobenzene	1.394	1.452	-4.2	97	0.00	14.34
111	Naphthalene	3.525	3.910	-10.9	101	0.00	14.57
112	1,2,3-Trichlorobenzene	1.401	1.491	-6.4	101	0.00	14.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3C192750.D V3C1220_062724_.M Fri Jun 28 09:35:18 2024

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-CC1220
Lab FileID: 3C193001.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\2024-07-17\3C193001.D Vial: 2
Acq On : 17 Jul 2024 10:59 am Operator: davidb2
Sample : CC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5, Multiplr: 1.00
MS Integration Params: rteint.p

Method : C:\msdchem\1\met...3C1220_062724_.M (RTE Integrator)
Title : SW-846 Method 5035A/8260
Last Update : Fri Jun 28 09:30:23 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	97	0.00	8.63
2		Dichlorodifluoromethane	0.215	0.297	-38.1#	138	0.00	2.23
3	P	Chloromethane	0.413	0.469	-13.6	113	0.00	2.49
4		1,3-Butadiene	0.341	0.364	-6.7	98	0.00	2.63
5	C	Vinyl Chloride	0.306	0.374	-22.2#	114	0.00	2.60
6		Bromomethane	0.133	0.180	-35.3#	141	0.00	3.05
7		Chloroethane	0.070	0.080	-14.3	104	0.00	3.21
8		Trichlorofluoromethane	0.427	0.492	-15.2	108	0.00	3.39
9		Ethyl Ether	0.295	0.333	-12.9	102	0.00	3.83
			Amount	Calc.	%Drift			
10		Ethanol	1000.000	885.460	11.5	84	0.00	4.07
			AvgRF	CCRF	%Dev			
11		1,2-Dichlorotrifluoroetha	0.380	0.418	-10.0	104	0.00	4.10
12	C	1,1-Dichloroethene	0.501	0.556	-11.0	103	0.00	4.08
13		Freon 113	0.331	0.392	-18.4	110	0.00	4.14
14		Carbon Disulfide	0.898	1.010	-12.5	104	0.00	4.12
			Amount	Calc.	%Drift			
15		Iodomethane	50.000	63.444	-26.9#	122	0.00	4.28
			AvgRF	CCRF	%Dev			
16		Allyl chloride	0.537	0.607	-13.0	103	0.00	4.74
17		Acrolein	0.067	0.075	-11.9	104	0.00	4.56
			Amount	Calc.	%Drift			
18		Methylene Chloride	50.000	52.111	-4.2	96	0.00	4.89
			AvgRF	CCRF	%Dev			
19		Acetone	0.127	0.130	-2.4	101	0.00	4.97
20		Methyl acetate	0.308	0.321	-4.2	96	0.00	5.14
21		trans-1,2-Dichloroethene	0.505	0.566	-12.1	104	0.00	5.12
22		Hexane	0.350	0.395	-12.9	110	0.00	5.22
23		Methyl Tert Butyl Ether	0.853	0.965	-13.1	102	0.00	5.28
24		Tert butyl alcohol	0.052	0.056	-7.7	100	0.00	5.45
25		Acetonitrile	0.053	0.050	5.7	94	0.00	5.64
26		Di-isopropyl ether	1.220	1.391	-14.0	103	0.00	5.83
27		Chloroprene	0.484	0.551	-13.8	104	0.00	5.99
28	P	1,1-Dichloroethane	0.635	0.694	-9.3	101	0.00	6.02
29		Acrylonitrile	0.141	0.148	-5.0	96	0.00	6.11
30		ETBE	0.995	1.149	-15.5	103	0.00	6.39

Continuing Calibration Summary

Job Number: FC17179 **Sample:** V3C1232-CC1220
Account: AHTNACAS Ahtna Global, LLC **Lab FileID:** 3C193001.D
Project: Soil Samples - Former Fort Ord, CA

31		Vinyl acetate	0.748	0.895	-19.7	107	0.00	6.41
32		cis-1,2-Dichloroethene	0.351	0.400	-14.0	104	0.00	6.86
33		2,2-Dichloropropane	0.414	0.502	-21.3#	112	0.00	7.03
34		Bromochloromethane	0.180	0.210	-16.7	104	0.00	7.19
35		Cyclohexane	0.647	0.762	-17.8	108	0.00	7.17
36	C	Chloroform	0.558	0.617	-10.6	104	0.00	7.32
37		Ethyl acetate	0.397	0.423	-6.5	98	0.00	7.52
38		Tetrahydrofuran	0.149	0.166	-11.4	105	0.00	7.57
39	S	Dibromofluoromethane	0.256	0.254	0.8	95	0.00	7.60
40		Carbon Tetrachloride	0.443	0.509	-14.9	106	0.00	7.51
41		1,1,1-Trichloroethane	0.498	0.556	-11.6	104	0.00	7.61
42		2-Butanone	0.203	0.206	-1.5	96	0.00	7.78
43		1,1-Dichloropropene	0.435	0.467	-7.4	100	0.00	7.80
			Amount	Calc.	%Drift			
44		tert-Butyl Formate	250.000	241.887	3.2	89	0.00	7.96
			AvgRF	CCRF	%Dev			
45		Propionitrile	0.056	0.059	-5.4	100	0.00	8.17
46		Methacrylonitrile	0.232	0.243	-4.7	96	0.00	8.19
47		Benzene	1.306	1.470	-12.6	105	0.00	8.12
48		TAME	0.803	0.932	-16.1	105	0.00	8.28
49	S	1,2-Dichloroethane-d4	0.279	0.267	4.3	92	0.00	8.30
50		1,2-Dichloroethane	0.458	0.485	-5.9	97	0.00	8.38
			Amount	Calc.	%Drift			
51		Isobutyl alcohol	1000.000	1015.106	-1.5	99	0.00	8.44
52		Tert Amyl Alcohol	500.000	546.122	-9.2	106	0.00	8.54
			AvgRF	CCRF	%Dev			
53		Trichloroethene	0.350	0.391	-11.7	105	0.00	8.82
54		Methylcyclohexane	0.577	0.689	-19.4	111	0.00	8.80
55		Dibromomethane	0.196	0.220	-12.2	102	0.00	9.27
56	C	1,2-Dichloropropane	0.342	0.397	-16.1	107	0.00	9.36
57		Bromodichloromethane	0.391	0.452	-15.6	103	0.00	9.43
			Amount	Calc.	%Drift			
58		Methyl methacrylate	50.000	51.692	-3.4	98	0.00	9.58
59		1,4-Dioxane	1000.000	1043.277	-4.3	98	0.00	9.63
			AvgRF	CCRF	%Dev			
60		2-Chloroethyl vinyl ether	0.001	0.001	0.0	355#	0.01	9.91
			Amount	Calc.	%Drift			
61		cis-1,3-Dichloropropene	50.000	56.672	-13.3	106	0.00	10.02
			AvgRF	CCRF	%Dev			
62	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	11.43
63	S	Toluene-d8	1.266	1.263	0.2	96	0.00	10.17
64	C	Toluene	1.853	2.101	-13.4	106	0.00	10.22
			Amount	Calc.	%Drift			
65		2-Nitropropane	250.000	266.373	-6.5	102	0.00	10.43
			AvgRF	CCRF	%Dev			
66		4-Methyl-2-pentanone	0.517	0.533	-3.1	93	0.00	10.54
67		trans-1,3-Dichloropropene	0.591	0.714	-20.8#	106	0.00	10.58
68		Tetrachloroethene	0.624	0.652	-4.5	95	0.00	10.55

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-CC1220
Lab FileID: 3C193001.D

			Amount	Calc.	%Drift			
69		Ethyl methacrylate	50.000	52.466	-4.9	96	0.00	10.69
			AvgRF	CCRF	%Dev			
70		1,1,2-Trichloroethane	0.319	0.345	-8.2	100	0.00	10.71
			Amount	Calc.	%Drift			
71		Dibromochloromethane	50.000	53.703	-7.4	102	0.00	10.86
			AvgRF	CCRF	%Dev			
72		1,3-Dichloropropane	0.631	0.717	-13.6	103	0.00	10.93
73		1,2-Dibromoethane	0.411	0.451	-9.7	98	0.00	11.05
			Amount	Calc.	%Drift			
74		3,3-dimethyl-1-butanol	2500.000	2459.129	1.6	96	0.00	11.18
			AvgRF	CCRF	%Dev			
75		2-hexanone	0.479	0.511	-6.7	96	0.00	11.20
76		1-Chlorohexane	0.607	0.732	-20.6#	111	0.00	11.41
77	C	Ethylbenzene	2.043	2.376	-16.3	109	0.00	11.45
78	P	Chlorobenzene	1.251	1.415	-13.1	105	0.00	11.44
79		1,1,1,2-Tetrachloroethane	0.449	0.505	-12.5	103	0.00	11.48
80		m,p-Xylene	1.576	1.837	-16.6	109	0.00	11.55
81		o-Xylene	1.580	1.839	-16.4	105	0.00	11.87
82		Styrene	1.215	1.469	-20.9#	107	0.00	11.91
			Amount	Calc.	%Drift			
83	P	Bromoform	50.000	54.830	-9.7	103	0.00	11.95
			AvgRF	CCRF	%Dev			
84		Isopropylbenzene	2.007	2.350	-17.1	108	0.00	12.08
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	98	0.00	13.07
86	S	4-Bromofluorobenzene	0.778	0.774	0.5	97	0.00	12.31
87		cis-1,4-Dichloro-2-butene	0.363	0.374	-3.0	92	0.00	12.34
88		n-Propylbenzene	4.538	5.241	-15.5	108	0.00	12.37
89		Bromobenzene	1.068	1.234	-15.5	109	0.00	12.39
90	P	1,1,2,2-Tetrachloroethane	1.004	1.080	-7.6	101	0.00	12.43
91		1,3,5-Trimethylbenzene	3.179	3.715	-16.9	108	0.00	12.50
92		2-Chlorotoluene	2.963	3.362	-13.5	107	0.00	12.50
			Amount	Calc.	%Drift			
93		trans-1,4-Dichloro-2-Bute	50.000	53.861	-7.7	102	0.00	12.55
			AvgRF	CCRF	%Dev			
94		1,2,3-Trichloropropane	0.301	0.339	-12.6	104	0.00	12.53
			Amount	Calc.	%Drift			
95		Cyclohexanone	250.000	349.510	-39.8#	137	0.00	12.58
			AvgRF	CCRF	%Dev			
96		4-Chlorotoluene	2.761	3.168	-14.7	109	0.00	12.61
97		tert-Butylbenzene	1.783	2.047	-14.8	108	0.00	12.72
98		1,2,4-Trimethylbenzene	3.176	3.694	-16.3	108	0.00	12.77
99		Pentachloroethane	0.436	0.615	-41.1#	131	0.00	12.77
100		sec-Butylbenzene	4.231	4.929	-16.5	110	0.00	12.84
101		4-Isopropyltoluene	3.623	4.305	-18.8	111	0.00	12.93
102		1,3-Dichlorobenzene	1.980	2.242	-13.2	108	0.00	13.03
103		1,2,3-Trimethylbenzene	3.330	3.745	-12.5	104	0.00	13.07
104		1,4-Dichlorobenzene	2.003	2.288	-14.2	110	0.00	13.08

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-CC1220
Lab FileID: 3C193001.D

105	n-Butylbenzene	1.801	2.185	-21.3#	113	0.00	13.22
	----------	Amount	Calc.	%Drift	----------		
106	Benzyl Chloride	50.000	56.655	-13.3	107	0.00	13.24
	----------	AvgRF	CCRF	%Dev	----------		
107	1,2-Dichlorobenzene	1.860	2.131	-14.6	108	0.00	13.37
	----------	Amount	Calc.	%Drift	----------		
108	1,2-Dibromo-3-Chloropropa	50.000	54.865	-9.7	104	0.00	13.91
	----------	AvgRF	CCRF	%Dev	----------		
109	Hexachlorobutadiene	0.746	0.924	-23.9#	115	0.00	14.30
110	1,2,4-Trichlorobenzene	1.394	1.709	-22.6#	112	0.00	14.34
111	Naphthalene	3.525	4.094	-16.1	103	0.00	14.57
112	1,2,3-Trichlorobenzene	1.401	1.637	-16.8	108	0.00	14.70

(#) = Out of Range SPCC's out = 0 CCC's out = 1
3C192750.D V3C1220_062724_.M Wed Jul 17 11:44:59 2024

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-ECC1220
Lab FileID: 3C193016.D

Evaluate Continuing Calibration Report

Data File : X:\Orlando VOA\jhene...32\V3C1232\3C193016.d Vial: 16
Acq On : 17 Jul 2024 5:12 pm Operator: davidb2
Sample : ECC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5, Multiplr: 1.00
MS Integration Params: rteint.p

Method : X:\Orlando VOA\j...3C1220_062724_.M (RTE Integrator)
Title : SW-846 Method 5035A/8260
Last Update : Fri Jun 28 09:30:23 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	8.63
2		Dichlorodifluoromethane	0.215	0.275	-27.9	118	0.00	2.23
3	P	Chloromethane	0.413	0.482	-16.7	108	0.00	2.49
4		1,3-Butadiene	0.341	0.349	-2.3	87	0.00	2.63
5	C	Vinyl Chloride	0.306	0.376	-22.9#	105	0.00	2.60
6		Bromomethane	0.133	0.191	-43.6	138	0.00	3.05
7		Chloroethane	0.070	0.083	-18.6	99	0.00	3.21
8		Trichlorofluoromethane	0.427	0.492	-15.2	100	0.00	3.39
9		Ethyl Ether	0.295	0.350	-18.6	99	0.00	3.83
		----------	True	Calc.	% Drift	----------		
10		Ethanol	1000.000	968.209	3.2	86	0.00	4.07
		----------	AvgRF	CCRF	% Dev	----------		
11		1,2-Dichlorotrifluoroetha	0.380	0.418	-10.0	96	0.00	4.10
12	C	1,1-Dichloroethene	0.501	0.552	-10.2	95	0.00	4.08
13		Freon 113	0.331	0.368	-11.2	96	0.00	4.14
14		Carbon Disulfide	0.898	0.993	-10.6	94	0.00	4.12
		----------	True	Calc.	% Drift	----------		
15		Iodomethane	50.000	59.802	-19.6	107	0.00	4.28
		----------	AvgRF	CCRF	% Dev	----------		
16		Allyl chloride	0.537	0.614	-14.3	96	0.00	4.74
17		Acrolein	0.067	0.072	-7.5	92	0.00	4.56
		----------	True	Calc.	% Drift	----------		
18		Methylene Chloride	50.000	55.263	-10.5	94	0.00	4.89
		----------	AvgRF	CCRF	% Dev	----------		
19		Acetone	0.127	0.139	-9.4	100	0.00	4.97
20		Methyl acetate	0.308	0.369	-19.8	102	0.00	5.14
21		trans-1,2-Dichloroethene	0.505	0.568	-12.5	96	0.00	5.12
22		Hexane	0.350	0.370	-5.7	95	0.00	5.22
23		Methyl Tert Butyl Ether	0.853	1.004	-17.7	99	0.00	5.28
24		Tert butyl alcohol	0.052	0.061	-17.3	101	0.00	5.44
25		Acetonitrile	0.053	0.055	-3.8	95	0.00	5.64
26		Di-isopropyl ether	1.220	1.436	-17.7	98	0.00	5.83
27		Chloroprene	0.484	0.547	-13.0	95	0.00	5.98
28	P	1,1-Dichloroethane	0.635	0.705	-11.0	95	0.00	6.02
29		Acrylonitrile	0.141	0.155	-9.9	93	0.00	6.11
30		ETBE	0.995	1.206	-21.2	100	0.00	6.39

Continuing Calibration Summary

Job Number: FC17179 **Sample:** V3C1232-ECC1220
Account: AHTNACAS Ahtna Global, LLC **Lab FileID:** 3C193016.D
Project: Soil Samples - Former Fort Ord, CA

31		Vinyl acetate		0.748	0.750	-0.3	83	0.00	6.41
32		cis-1,2-Dichloroethene		0.351	0.403	-14.8	97	0.00	6.86
33		2,2-Dichloropropane		0.414	0.484	-16.9	100	0.00	7.03
34		Bromochloromethane		0.180	0.207	-15.0	95	0.00	7.18
35		Cyclohexane		0.647	0.732	-13.1	96	0.00	7.17
36	C	Chloroform		0.558	0.638	-14.3	100	0.00	7.32
37		Ethyl acetate		0.397	0.446	-12.3	96	0.00	7.52
38		Tetrahydrofuran		0.149	0.175	-17.4	103	0.00	7.57
39	S	Dibromofluoromethane		0.256	0.256	0.0	89	0.00	7.60
40		Carbon Tetrachloride		0.443	0.499	-12.6	96	0.00	7.51
41		1,1,1-Trichloroethane		0.498	0.552	-10.8	95	0.00	7.61
42		2-Butanone		0.203	0.219	-7.9	94	0.00	7.78
43		1,1-Dichloropropene		0.435	0.453	-4.1	90	0.00	7.80
			True	Calc.	% Drift				
44		tert-Butyl Formate	250.000	214.497	14.2		73	0.00	7.96
			AvgRF	CCRF	% Dev				
45		Propionitrile		0.056	0.062	-10.7	96	0.00	8.17
46		Methacrylonitrile		0.232	0.260	-12.1	95	0.00	8.19
47		Benzene		1.306	1.490	-14.1	99	0.00	8.12
48		TAME		0.803	0.972	-21.0	101	0.00	8.28
49	S	1,2-Dichloroethane-d4		0.279	0.279	0.0	89	0.00	8.30
50		1,2-Dichloroethane		0.458	0.524	-14.4	97	0.00	8.38
			True	Calc.	% Drift				
51		Isobutyl alcohol	1000.000	1083.956	-8.4		98	0.00	8.44
52		Tert Amyl Alcohol	500.000	559.624	-11.9		100	0.00	8.54
			AvgRF	CCRF	% Dev				
53		Trichloroethene		0.350	0.395	-12.9	98	0.00	8.82
54		Methylcyclohexane		0.577	0.646	-12.0	96	0.00	8.80
55		Dibromomethane		0.196	0.231	-17.9	99	0.00	9.27
56	C	1,2-Dichloropropane		0.342	0.409	-19.6	102	0.00	9.36
57		Bromodichloromethane		0.391	0.465	-18.9	98	0.00	9.43
			True	Calc.	% Drift				
58		Methyl methacrylate	50.000	54.580	-9.2		95	0.00	9.58
59		1,4-Dioxane	1000.000	1111.302	-11.1		97	0.00	9.63
			AvgRF	CCRF	% Dev				
60		2-Chloroethyl vinyl ether		0.001	0.001	0.0	348#	-0.01	9.89
			True	Calc.	% Drift				
61		cis-1,3-Dichloropropene	50.000	57.518	-15.0		100	0.00	10.02
			AvgRF	CCRF	% Dev				
62	I	Chlorobenzene-d5		1.000	1.000	0.0	90	0.00	11.43
63	S	Toluene-d8		1.266	1.253	1.0	89	0.00	10.17
64	C	Toluene		1.853	2.076	-12.0	98	0.00	10.22
			True	Calc.	% Drift				
65		2-Nitropropane	250.000	277.525	-11.0		100	0.00	10.43
			AvgRF	CCRF	% Dev				
66		4-Methyl-2-pentanone		0.517	0.570	-10.3	92	0.00	10.54
67		trans-1,3-Dichloropropene		0.591	0.725	-22.7	101	0.00	10.58
68		Tetrachloroethene		0.624	0.790	-26.6	108	0.00	10.55

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-ECC1220
Lab FileID: 3C193016.D

			True	Calc.	% Drift			
69		Ethyl methacrylate	50.000	53.273	-6.5	91	0.00	10.69
			AvgRF	CCRF	% Dev			
70		1,1,2-Trichloroethane	0.319	0.362	-13.5	98	0.00	10.71
			True	Calc.	% Drift			
71		Dibromochloromethane	50.000	55.462	-10.9	99	0.00	10.86
			AvgRF	CCRF	% Dev			
72		1,3-Dichloropropane	0.631	0.740	-17.3	99	0.00	10.93
73		1,2-Dibromoethane	0.411	0.465	-13.1	95	0.00	11.05
			True	Calc.	% Drift			
74		3,3-dimethyl-1-butanol	2500.000	2561.638	-2.5	94	0.00	11.18
			AvgRF	CCRF	% Dev			
75		2-hexanone	0.479	0.541	-12.9	95	0.00	11.20
76		1-Chlorohexane	0.607	0.679	-11.9	96	0.00	11.41
77	C	Ethylbenzene	2.043	2.316	-13.4	99	0.00	11.45
78	P	Chlorobenzene	1.251	1.415	-13.1	98	0.00	11.44
79		1,1,1,2-Tetrachloroethane	0.449	0.513	-14.3	97	0.00	11.48
80		m,p-Xylene	1.576	1.765	-12.0	98	0.00	11.55
81		o-Xylene	1.580	1.808	-14.4	97	0.00	11.87
82		Styrene	1.215	1.441	-18.6	98	0.00	11.91
			True	Calc.	% Drift			
83	P	Bromoform	50.000	53.836	-7.7	95	0.00	11.95
			AvgRF	CCRF	% Dev			
84		Isopropylbenzene	2.007	2.256	-12.4	96	0.00	12.08
85	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	90	0.00	13.07
86	S	4-Bromofluorobenzene	0.778	0.770	1.0	89	0.00	12.30
87		cis-1,4-Dichloro-2-butene	0.363	0.418	-15.2	95	0.00	12.34
88		n-Propylbenzene	4.538	5.005	-10.3	95	0.00	12.37
89		Bromobenzene	1.068	1.246	-16.7	102	0.00	12.39
90	P	1,1,2,2-Tetrachloroethane	1.004	1.112	-10.8	96	0.00	12.43
91		1,3,5-Trimethylbenzene	3.179	3.623	-14.0	97	0.00	12.50
92		2-Chlorotoluene	2.963	3.293	-11.1	97	0.00	12.50
			True	Calc.	% Drift			
93		trans-1,4-Dichloro-2-Bute	50.000	56.670	-13.3	99	0.00	12.55
			AvgRF	CCRF	% Dev			
94		1,2,3-Trichloropropane	0.301	0.341	-13.3	96	0.00	12.53
			True	Calc.	% Drift			
95		Cyclohexanone	250.000	360.571	-44.2	130	0.00	12.58
			AvgRF	CCRF	% Dev			
96		4-Chlorotoluene	2.761	3.059	-10.8	96	0.00	12.61
97		tert-Butylbenzene	1.783	2.010	-12.7	97	0.00	12.72
98		1,2,4-Trimethylbenzene	3.176	3.540	-11.5	95	0.00	12.77
99		Pentachloroethane	0.436	0.357	18.1	70	0.00	12.77
100		sec-Butylbenzene	4.231	4.663	-10.2	96	0.00	12.84
101		4-Isopropyltoluene	3.623	4.061	-12.1	96	0.00	12.93
102		1,3-Dichlorobenzene	1.980	2.137	-7.9	95	0.00	13.02
103		1,2,3-Trimethylbenzene	3.330	3.685	-10.7	94	0.00	13.07
104		1,4-Dichlorobenzene	2.003	2.178	-8.7	96	0.00	13.08

Continuing Calibration Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: V3C1232-ECC1220
Lab FileID: 3C193016.D

105	n-Butylbenzene	1.801	1.981	-10.0	94	0.00	13.22
	----------	True	Calc.	% Drift	----------		
106	Benzyl Chloride	50.000	50.040	-0.1	86	0.00	13.24
	----------	AvgRF	CCRF	% Dev	----------		
107	1,2-Dichlorobenzene	1.860	2.087	-12.2	98	0.00	13.37
	----------	True	Calc.	% Drift	----------		
108	1,2-Dibromo-3-Chloropropa	50.000	58.614	-17.2	103	0.00	13.91
	----------	AvgRF	CCRF	% Dev	----------		
109	Hexachlorobutadiene	0.746	0.848	-13.7	97	0.00	14.30
110	1,2,4-Trichlorobenzene	1.394	1.555	-11.5	94	0.00	14.34
111	Naphthalene	3.525	4.097	-16.2	95	0.00	14.56
112	1,2,3-Trichlorobenzene	1.401	1.579	-12.7	96	0.00	14.70

(#) = Out of Range SPCC's out = 0 CCC's out = 1
3C192750.D V3C1220_062724_.M Thu Jul 18 02:00:56 2024

Run Sequence Report

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Run ID: V3C1220 **Method:** SW846 8260D **Instrument ID:** GCMS3C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3C1220-BFB	3C192745.D	06/27/24 12:56	n/a	BFB Tune
V3C1220-IC1220	3C192746.D	06/27/24 14:32	n/a	Initial cal 1
V3C1220-IC1220	3C192747.D	06/27/24 14:56	n/a	Initial cal 2
V3C1220-IC1220	3C192748.D	06/27/24 15:20	n/a	Initial cal 3
V3C1220-IC1220	3C192749.D	06/27/24 15:45	n/a	Initial cal 4
V3C1220-ICC1220	3C192750.D	06/27/24 16:09	n/a	Initial cal 5
V3C1220-IC1220	3C192751.D	06/27/24 16:33	n/a	Initial cal 6
V3C1220-IC1220	3C192752.D	06/27/24 16:57	n/a	Initial cal 7
V3C1220-ICV1220	3C192754.D	06/27/24 17:46	n/a	Initial cal verification 5

Run Sequence Report

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Run ID: V3C1232	**Method:** SW846 8260D	**Instrument ID:** GCMS3C

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
V3C1232-BFB	3C193000.D	07/17/24 10:26	n/a	BFB Tune
V3C1232-CC1220	3C193001.D	07/17/24 10:59	n/a	Continuing cal 5
V3C1232-BS	3C193002.D	07/17/24 11:35	n/a	Blank Spike
V3C1232-MB	3C193003.D	07/17/24 12:10	n/a	Method Blank
ZZZZZZ	3C193005.D	07/17/24 12:46	n/a	(unrelated sample)
ZZZZZZ	3C193006.D	07/17/24 13:10	n/a	(unrelated sample)
ZZZZZZ	3C193007.D	07/17/24 13:35	n/a	(unrelated sample)
FC17179-1	3C193008.D	07/17/24 13:59	n/a	2429MOU2087F
FC17179-2	3C193009.D	07/17/24 14:23	n/a	2429MOU2088F
ZZZZZZ	3C193010.D	07/17/24 14:47	n/a	(unrelated sample)
ZZZZZZ	3C193011.D	07/17/24 15:11	n/a	(unrelated sample)
ZZZZZZ	3C193012.D	07/17/24 15:36	n/a	(unrelated sample)
FC17088-3	3C193013.D	07/17/24 16:00	n/a	(used for QC only; not part of job FC17179)
FC17088-3MS	3C193014.D	07/17/24 16:24	n/a	Matrix Spike
FC17088-3MSD	3C193015.D	07/17/24 16:48	n/a	Matrix Spike Duplicate
V3C1232-ECC1220	3C193016.D	07/17/24 17:12	n/a	Ending cal 5

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193008.d
Acq On : 17 Jul 2024 1:59 pm
Operator : davidb2
Sample : FC17179-1 Inst : MSVOA19-3C
Misc : MS57072,V3C1232,4.74,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 01:46:23 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	201508	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	155325	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	74116	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	50828	49.18	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.36%			
49) 1,2-Dichloroethane-d4	8.303	65	57043	50.66	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 101.32%			
63) Toluene-d8	10.174	98	192039	48.85	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.70%			
86) 4-Bromofluorobenzene	12.302	174	59413	51.55	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 103.10%			

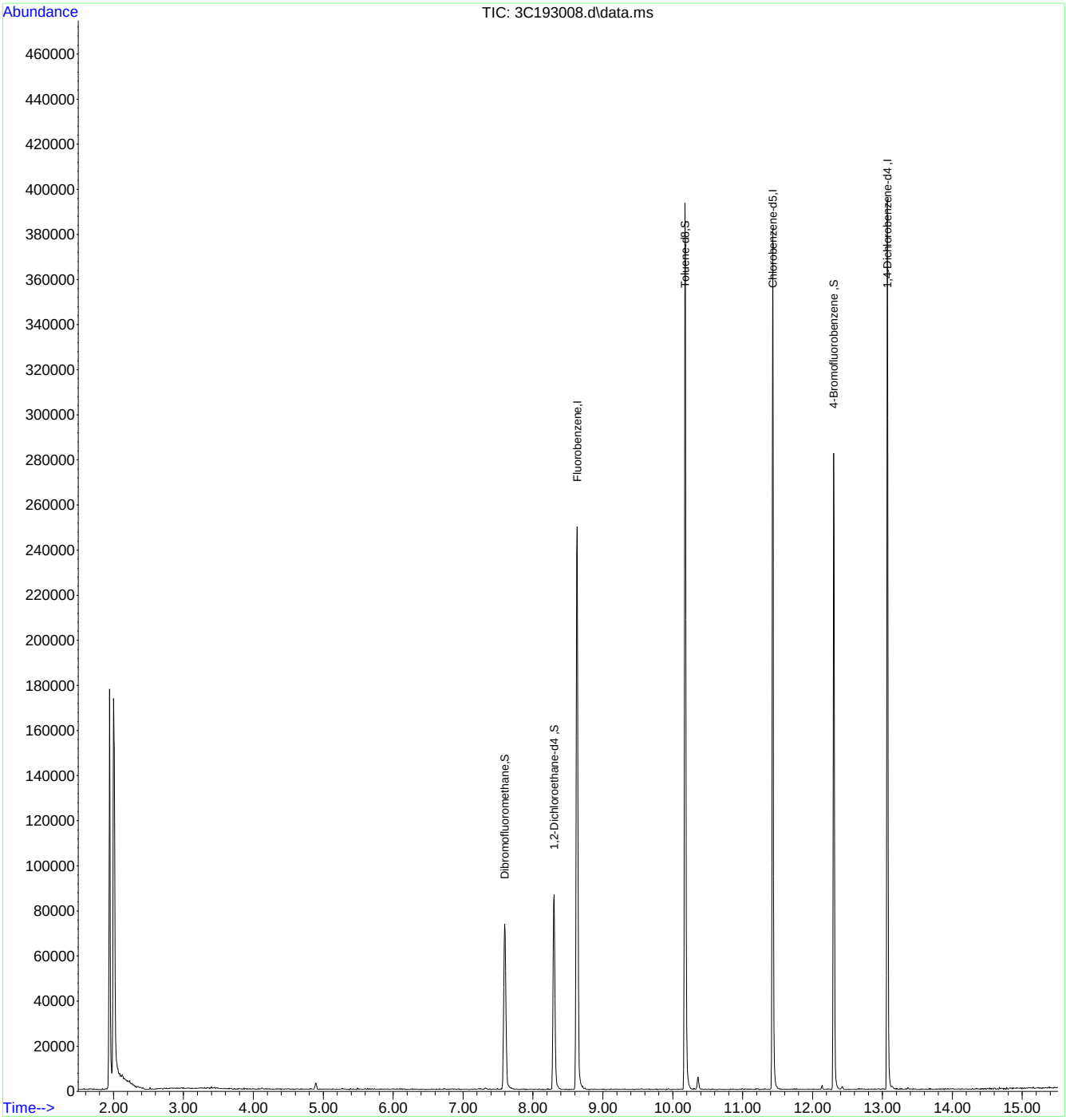
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193008.d
Acq On : 17 Jul 2024 1:59 pm
Operator : davidb2
Sample : FC17179-1 Inst : MSVOA19-3C
Misc : MS57072,V3C1232,4.74,,,5,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jul 18 01:46:23 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193009.d
Acq On : 17 Jul 2024 2:23 pm
Operator : davidb2
Sample : FC17179-2 Inst : MSVOA19-3C
Misc : MS57072,V3C1232,6.23,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 01:46:46 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	202222	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	154040	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	74104	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	50952	49.13	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.26%			
49) 1,2-Dichloroethane-d4	8.303	65	58300	51.59	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 103.18%			
63) Toluene-d8	10.174	98	193837	49.72	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.44%			
86) 4-Bromofluorobenzene	12.308	174	56303	48.86	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.72%			

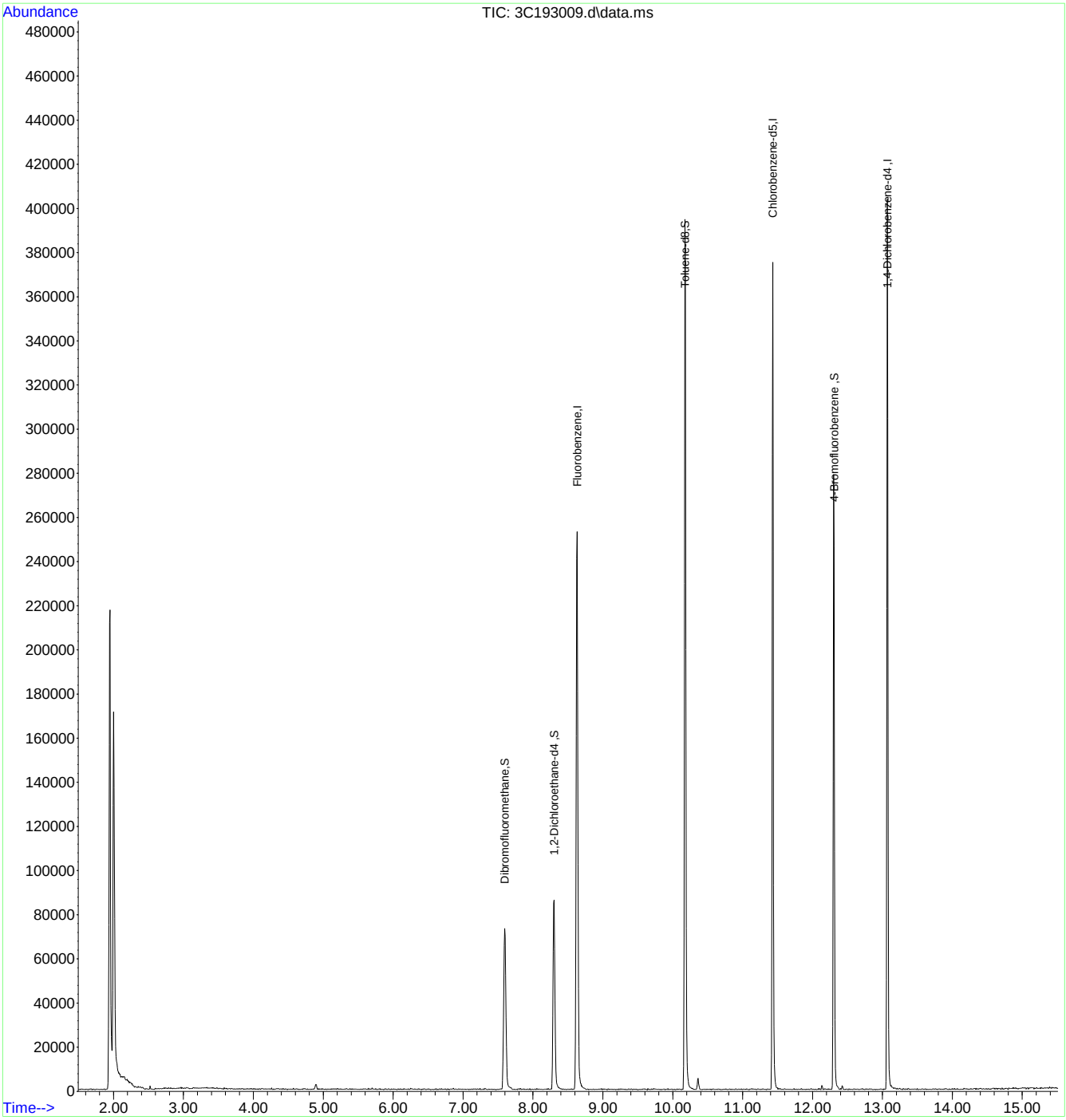
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193009.d
Acq On : 17 Jul 2024 2:23 pm
Operator : davidb2
Sample : FC17179-2 Inst : MSVOA19-3C
Misc : MS57072,V3C1232,6.23,,,5,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Jul 18 01:46:46 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193003.d
Acq On : 17 Jul 2024 12:10 pm
Operator : davidb2
Sample : MB Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 01:45:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

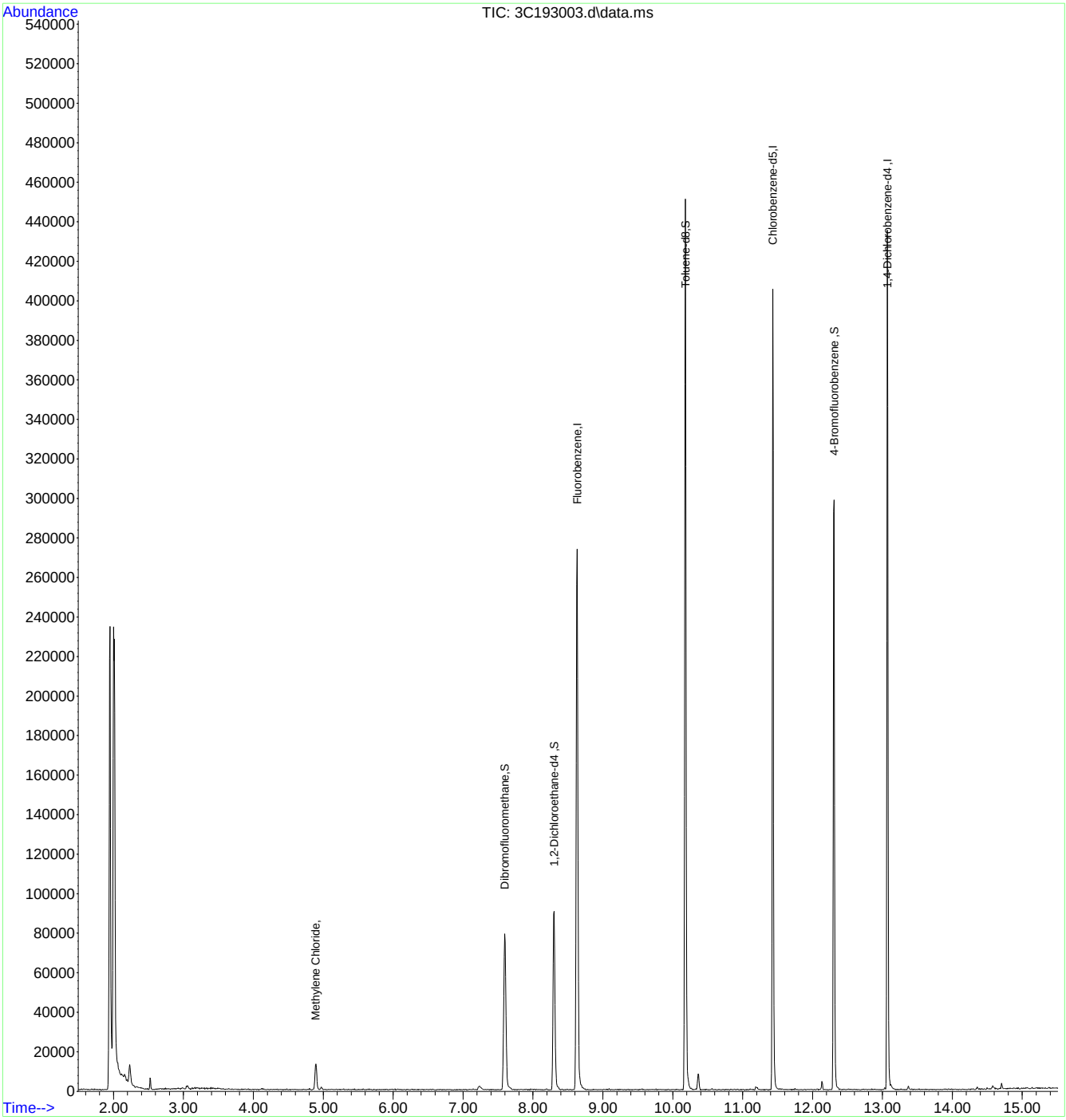
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	221876	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	167980	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	82874	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	54099	47.54	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.08%			
49) 1,2-Dichloroethane-d4	8.303	65	59575	48.05	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.10%			
63) Toluene-d8	10.180	98	211633	49.78	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.56%			
86) 4-Bromofluorobenzene	12.308	174	66094	51.28	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 102.56%			
Target Compounds						Qvalue
18) Methylene Chloride	4.889	49	8972	3.2937	ug/Kg	91

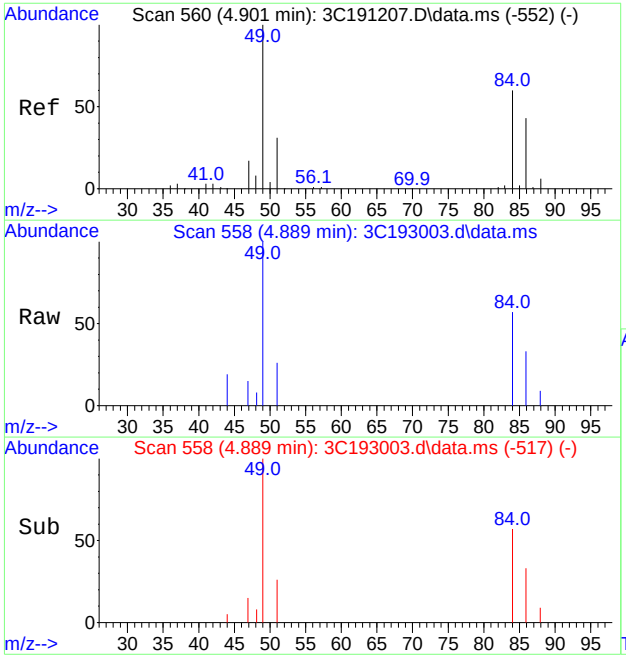
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193003.d
Acq On : 17 Jul 2024 12:10 pm
Operator : davidb2
Sample : MB Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jul 18 01:45:52 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

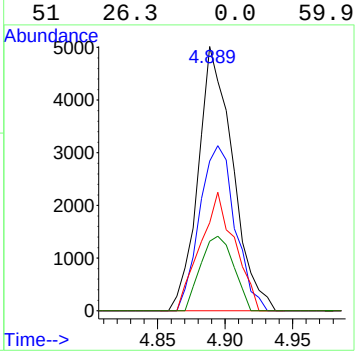




#18
Methylene Chloride
Concen: 3.2937 ug/Kg
RT: 4.889 min Scan# 558
Delta R.T. -0.000 min
Lab File: 3C193003.d
Acq: 17 Jul 2024 12:10 pm

Tgt Ion: 49 Resp: 8972

Ion	Ratio	Lower	Upper
49	100		
84	56.6	30.8	90.8
86	33.3	12.2	72.2
51	26.3	0.0	59.9



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193002.D
Acq On : 17 Jul 2024 11:35 am
Operator : davidb2
Sample : BS Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 11:51:51 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	237167	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	178763	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	91241	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	59997	49.32	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.64%			
49) 1,2-Dichloroethane-d4	8.303	65	64365	48.57	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.14%			
63) Toluene-d8	10.174	98	228575	50.52	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.04%			
86) 4-Bromofluorobenzene	12.302	174	71684	50.52	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 101.04%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	87076	85.25	ug/Kg	99
3) Chloromethane	2.487	50	127102	64.86	ug/Kg	99
4) 1,3-Butadiene	2.627	54	189957	117.55	ug/Kg	98
5) Vinyl Chloride	2.615	62	104866	72.17	ug/Kg	99
6) Bromomethane	3.047	94	46895	74.28	ug/Kg	98
7) Chloroethane	3.206	64	20911	63.07	ug/Kg	97
8) Trichlorofluoromethane	3.383	101	121431	59.97	ug/Kg	99
9) Ethyl Ether	3.834	59	67281	48.02	ug/Kg	97
10) Ethanol	4.084	45	29749	936.27	ug/Kg	91
11) 1,2-Dichlorotrifluoroe...	4.096	67	93060	51.69	ug/Kg	99
12) 1,1-Dichloroethene	4.084	61	138983	58.54	ug/Kg	98
13) Freon 113	4.139	101	80701	51.33	ug/Kg	98
14) Carbon Disulfide	4.114	76	164465	38.61	ug/Kg	100
15) Iodomethane	4.279	142	98310	51.92	ug/Kg	97
16) Allyl chloride	4.742	41	144562	56.80	ug/Kg	97
17) Acrolein	4.559	56	80333	252.34	ug/Kg	100
18) Methylene Chloride	4.889	49	155651	55.63	ug/Kg	98
19) Acetone	4.974	43	152089	251.68	ug/Kg	97
20) Methyl acetate	5.151	43	362129	248.21	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	139648	58.29	ug/Kg	99
22) Hexane	5.224	56	76890	46.27	ug/Kg	98
23) Methyl Tert Butyl Ether	5.279	73	210087	51.93	ug/Kg	98
24) Tert butyl alcohol	5.449	59	125926	506.82	ug/Kg	99
25) Acetonitrile	5.644	41	132712	529.90	ug/Kg	100
26) Di-isopropyl ether	5.833	45	293478	50.70	ug/Kg	99
27) Chloroprene	5.980	53	140247	61.10	ug/Kg	100
28) 1,1-Dichloroethane	6.022	63	167332	55.58	ug/Kg	99
29) Acrylonitrile	6.108	53	183001	272.74	ug/Kg	97
30) ETBE	6.388	59	247305	52.39	ug/Kg	99
31) Vinyl acetate	6.419	43	973681	274.59	ug/Kg	99
32) cis-1,2-Dichloroethene	6.870	96	95998	57.66	ug/Kg	99
33) 2,2-Dichloropropane	7.028	77	126222	64.35	ug/Kg	96
34) Bromochloromethane	7.181	128	45044	52.80	ug/Kg	96
35) Cyclohexane	7.175	56	155399	50.60	ug/Kg	97
36) Chloroform	7.321	83	148678	56.19	ug/Kg	99
37) Ethyl acetate	7.516	43	484525	257.25	ug/Kg	98
38) Tetrahydrofuran	7.571	42	33750	47.90	ug/Kg	94
40) Carbon Tetrachloride	7.510	117	124203	59.16	ug/Kg	99
41) 1,1,1-Trichloroethane	7.614	97	135875	57.57	ug/Kg	99
42) 2-Butanone	7.784	43	222926	231.14	ug/Kg	96
43) 1,1-Dichloropropene	7.797	75	124789	60.44	ug/Kg	96
44) tert-Butyl Formate	7.955	59	259062	253.74	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193002.D
Acq On : 17 Jul 2024 11:35 am
Operator : davidb2
Sample : BS Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 11:51:51 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	Propionitrile	8.168	54	148941	556.12	ug/Kg	98
46)	Methacrylonitrile	8.193	41	598765	544.66	ug/Kg	99
47)	Benzene	8.120	78	361043	58.26	ug/Kg	99
48)	TAME	8.278	73	199543	52.42	ug/Kg	98
50)	1,2-Dichloroethane	8.382	62	117425	53.99	ug/Kg	98
51)	Isobutyl alcohol	8.443	42	62263	1018.28	ug/Kg	97
52)	Tert Amyl Alcohol	8.540	59	88227	515.86	ug/Kg	92
53)	Trichloroethene	8.821	95	96168	57.97	ug/Kg	97
54)	Methylcyclohexane	8.796	83	150721	55.07	ug/Kg	98
55)	Dibromomethane	9.266	93	51271	55.25	ug/Kg	98
56)	1,2-Dichloropropane	9.363	63	97179	59.94	ug/Kg	98
57)	Bromodichloromethane	9.430	83	104419	56.30	ug/Kg	98
58)	Methyl methacrylate	9.583	41	81577	53.07	ug/Kg	94
59)	1,4-Dioxane	9.632	88	23215	1007.32	ug/Kg	93
60)	2-Chloroethyl vinyl ether	9.888	63	356	98.40	ug/Kg#	1
61)	cis-1,3-Dichloropropene	10.022	75	134638	55.25	ug/Kg	95
64)	Toluene	10.223	91	382537	57.76	ug/Kg	99
65)	2-Nitropropane	10.430	41	116974	261.52	ug/Kg	99
66)	4-Methyl-2-pentanone	10.540	43	478288	258.86	ug/Kg	99
67)	trans-1,3-Dichloropropene	10.576	75	114816	54.34	ug/Kg	97
68)	Tetrachloroethene	10.552	166	121275	54.37	ug/Kg	100
69)	Ethyl methacrylate	10.692	69	104423	56.27	ug/Kg	99
70)	1,1,2-Trichloroethane	10.711	83	63069	55.21	ug/Kg	98
71)	Dibromochloromethane	10.857	129	91609	54.67	ug/Kg	97
72)	1,3-Dichloropropane	10.930	76	132043	58.50	ug/Kg	99
73)	1,2-Dibromoethane	11.046	107	80751	54.89	ug/Kg	97
74)	3,3-dimethyl-1-butanol	11.180	57	581564	2360.32	ug/Kg	99
75)	2-hexanone	11.198	43	456825	266.52	ug/Kg	99
76)	1-Chlorohexane	11.406	91	124475	57.36	ug/Kg	99
77)	Ethylbenzene	11.448	91	420857	57.62	ug/Kg	99
78)	Chlorobenzene	11.442	112	252981	56.57	ug/Kg	99
79)	1,1,1,2-Tetrachloroethane	11.485	131	91148	56.80	ug/Kg	99
80)	m,p-Xylene	11.552	91	653473	115.99	ug/Kg	99
81)	o-Xylene	11.869	91	320844	56.78	ug/Kg	99
82)	Styrene	11.905	104	263354	60.61	ug/Kg	99
83)	Bromoform	11.948	173	54869	52.43	ug/Kg	98
84)	Isopropylbenzene	12.082	105	417021	58.12	ug/Kg	99
87)	cis-1,4-Dichloro-2-butene	12.338	53	38539	58.23	ug/Kg	99
88)	n-Propylbenzene	12.375	91	482868	58.31	ug/Kg	94
89)	Bromobenzene	12.387	156	114289	58.67	ug/Kg	97
90)	1,1,2,2-Tetrachloroethane	12.430	83	99238	54.15	ug/Kg	98
91)	1,3,5-Trimethylbenzene	12.497	105	347649	59.93	ug/Kg	99
92)	2-Chlorotoluene	12.503	91	309580	57.25	ug/Kg	100
93)	trans-1,4-Dichloro-2-B...	12.552	53	32298	52.30	ug/Kg	96
94)	1,2,3-Trichloropropane	12.540	110	31369	57.04	ug/Kg	90
95)	Cyclohexanone	12.582	55	18981	149.24	ug/Kg	94
96)	4-Chlorotoluene	12.613	91	288342	57.22	ug/Kg	99
97)	tert-Butylbenzene	12.722	91	188429	57.93	ug/Kg	98
98)	1,2,4-Trimethylbenzene	12.765	105	347569	59.98	ug/Kg	96
99)	Pentachloroethane	12.765	167	58990	74.22	ug/Kg	93
100)	sec-Butylbenzene	12.844	105	440528	57.05	ug/Kg	99
101)	4-Isopropyltoluene	12.930	119	401489	60.74	ug/Kg	99
102)	1,3-Dichlorobenzene	13.027	146	203588	56.35	ug/Kg	95
103)	1,2,3-Trimethylbenzene	13.070	105	353666	58.19	ug/Kg	100
104)	1,4-Dichlorobenzene	13.082	146	208759	57.12	ug/Kg	100
105)	n-Butylbenzene	13.216	92	210325	63.98	ug/Kg	99
106)	Benzyl Chloride	13.241	126	40736	55.00	ug/Kg	98
107)	1,2-Dichlorobenzene	13.375	146	193768	57.08	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193002.D
Acq On : 17 Jul 2024 11:35 am
Operator : davidb2
Sample : BS Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 11:51:51 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

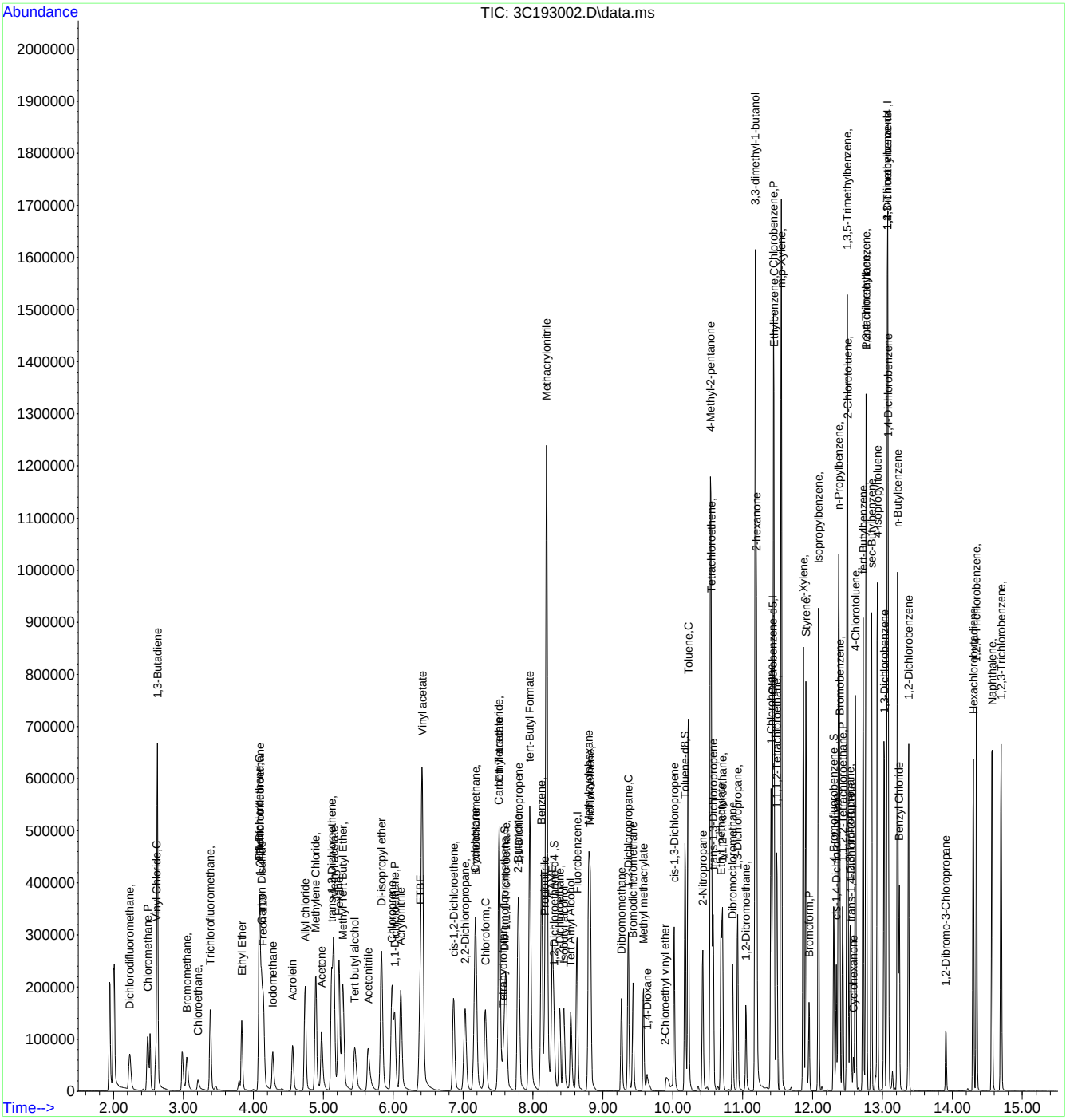
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	18290	54.33	ug/Kg	98
109) Hexachlorobutadiene	14.301	225	85582	62.87	ug/Kg	98
110) 1,2,4-Trichlorobenzene	14.344	180	158667	62.39	ug/Kg	99
111) Naphthalene	14.570	128	373257	58.03	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	152082	59.50	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193002.D
Acq On : 17 Jul 2024 11:35 am
Operator : davidb2
Sample : BS Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jul 17 11:51:51 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193014.d
Acq On : 17 Jul 2024 4:24 pm
Operator : davidb2
Sample : FC17088-3MS Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 01:47:42 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	217613	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	168702	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	85521	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	56322	50.46	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.92%			
49) 1,2-Dichloroethane-d4	8.303	65	62019	51.00	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 102.00%			
63) Toluene-d8	10.174	98	208475	48.82	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.64%			
86) 4-Bromofluorobenzene	12.302	174	65153	48.99	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 97.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	81160	86.5938	ug/Kg	97
3) Chloromethane	2.493	50	124537	69.2659	ug/Kg	99
4) 1,3-Butadiene	2.627	54	178960	120.6942	ug/Kg	99
5) Vinyl Chloride	2.602	62	99315	74.4898	ug/Kg	97
6) Bromomethane	3.047	94	42969	74.1740	ug/Kg	99
7) Chloroethane	3.206	64	20700	68.0406	ug/Kg	96
8) Trichlorofluoromethane	3.389	101	122597	65.9811	ug/Kg	97
9) Ethyl Ether	3.828	59	65301	50.7997	ug/Kg	96
10) Ethanol	4.066	45	31004	1059.8095	ug/Kg	96
11) 1,2-Dichlorotrifluoroe...	4.096	67	85459	51.7370	ug/Kg	98
12) 1,1-Dichloroethene	4.084	61	128979	59.2028	ug/Kg	99
13) Freon 113	4.145	101	71352	49.4650	ug/Kg	97
14) Carbon Disulfide	4.120	76	150058	38.3887	ug/Kg	98
15) Iodomethane	4.279	142	78646	45.1739	ug/Kg	97
16) Allyl chloride	4.742	41	137303	58.7940	ug/Kg	99
17) Acrolein	4.559	56	75240	257.5830	ug/Kg	100
18) Methylene Chloride	4.889	49	150072	58.5864	ug/Kg	99
19) Acetone	4.974	43	162691	293.4112	ug/Kg	94
20) Methyl acetate	5.145	43	397906	297.2374	ug/Kg	100
21) trans-1,2-Dichloroethene	5.120	61	129424	58.8791	ug/Kg	98
22) Hexane	5.224	56	70249	46.0737	ug/Kg	98
23) Methyl Tert Butyl Ether	5.273	73	198338	53.4286	ug/Kg	96
24) Tert butyl alcohol	5.437	59	127135	557.6621	ug/Kg	98
25) Acetonitrile	5.638	41	138534	602.8559	ug/Kg	96
26) Di-isopropyl ether	5.827	45	287921	54.2132	ug/Kg	98
27) Chloroprene	5.986	53	129947	61.6995	ug/Kg	96
28) 1,1-Dichloroethane	6.022	63	159987	57.9108	ug/Kg	98
29) Acrylonitrile	6.108	53	186090	302.2661	ug/Kg	96
30) ETBE	6.388	59	238446	55.0480	ug/Kg	98
31) Vinyl acetate	6.413	43	809811	248.8996	ug/Kg	99
32) cis-1,2-Dichloroethene	6.864	96	105092	68.7922	ug/Kg	97
33) 2,2-Dichloropropane	7.028	77	109787	61.0042	ug/Kg	98
34) Bromochloromethane	7.187	128	43135	55.1084	ug/Kg	94
35) Cyclohexane	7.175	56	141788	50.3208	ug/Kg	95
36) Chloroform	7.321	83	144594	59.5591	ug/Kg	99
37) Ethyl acetate	7.516	43	492683	285.0808	ug/Kg	99
38) Tetrahydrofuran	7.571	42	35641	55.1267	ug/Kg	95
40) Carbon Tetrachloride	7.510	117	113203	58.7695	ug/Kg	96
41) 1,1,1-Trichloroethane	7.614	97	127541	58.8975	ug/Kg	99
42) 2-Butanone	7.778	43	232706	262.9632	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	113269	59.7887	ug/Kg	97
44) tert-Butyl Formate	7.955	59	212469	228.2631	ug/Kg	95

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193014.d
Acq On : 17 Jul 2024 4:24 pm
Operator : davidb2
Sample : FC17088-3MS Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 01:47:42 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	154855	630.1541	ug/Kg	94
46) Methacrylonitrile	8.193	41	628039	622.6241	ug/Kg	99
47) Benzene	8.126	78	334146	58.7659	ug/Kg	99
48) TAME	8.278	73	186183	53.3016	ug/Kg	96
50) 1,2-Dichloroethane	8.382	62	118903	59.5854	ug/Kg	98
51) Isobutyl alcohol	8.437	42	65464	1157.6793	ug/Kg	94
52) Tert Amyl Alcohol	8.534	59	86645	549.2703	ug/Kg	96
53) Trichloroethene	8.821	95	177187	116.4143	ug/Kg	97
54) Methylcyclohexane	8.796	83	132066	52.5863	ug/Kg	99
55) Dibromomethane	9.266	93	52281	61.3977	ug/Kg	96
56) 1,2-Dichloropropane	9.363	63	92496	62.1809	ug/Kg	97
57) Bromodichloromethane	9.430	83	100335	58.9593	ug/Kg	97
58) Methyl methacrylate	9.577	41	83650	59.0840	ug/Kg	98
59) 1,4-Dioxane	9.632	88	24056	1130.5544	ug/Kg	97
60) 2-Chloroethyl vinyl ether	9.888	63	1010	304.2453	ug/Kg#	1
61) cis-1,3-Dichloropropene	10.022	75	126636	56.6032	ug/Kg	99
64) Toluene	10.223	91	351744	56.2733	ug/Kg	100
65) 2-Nitropropane	10.430	41	121578	287.0349	ug/Kg	98
66) 4-Methyl-2-pentanone	10.540	43	500823	287.2190	ug/Kg	97
67) trans-1,3-Dichloropropene	10.576	75	109773	55.0561	ug/Kg	99
68) Tetrachloroethene	10.552	166	133414	63.3750	ug/Kg	98
69) Ethyl methacrylate	10.692	69	103540	59.0359	ug/Kg	98
70) 1,1,2-Trichloroethane	10.711	83	62534	58.0090	ug/Kg	97
71) Dibromochloromethane	10.857	129	88309	55.7982	ug/Kg	100
72) 1,3-Dichloropropane	10.930	76	128833	60.4853	ug/Kg	98
73) 1,2-Dibromoethane	11.046	107	79776	57.4642	ug/Kg	96
74) 3,3-dimethyl-1-butanol	11.180	57	592002	2548.1884	ug/Kg	99
75) 2-hexanone	11.198	43	481873	297.9042	ug/Kg	98
76) 1-Chlorohexane	11.406	91	106915	52.2086	ug/Kg	97
77) Ethylbenzene	11.448	91	387669	56.2372	ug/Kg	100
78) Chlorobenzene	11.442	112	236265	55.9861	ug/Kg	98
79) 1,1,1,2-Tetrachloroethane	11.485	131	87796	57.9707	ug/Kg	98
80) m,p-Xylene	11.552	91	600395	112.9254	ug/Kg	99
81) o-Xylene	11.869	91	296641	55.6309	ug/Kg	99
82) Styrene	11.905	104	244136	59.5362	ug/Kg	98
83) Bromoform	11.948	173	53265	53.8036	ug/Kg	98
84) Isopropylbenzene	12.082	105	377656	55.7687	ug/Kg	100
87) cis-1,4-Dichloro-2-butene	12.338	53	37662	60.7100	ug/Kg	98
88) n-Propylbenzene	12.369	91	434489	55.9744	ug/Kg	99
89) Bromobenzene	12.387	156	107717	58.9946	ug/Kg	97
90) 1,1,2,2-Tetrachloroethane	12.430	83	98427	57.3048	ug/Kg	98
91) 1,3,5-Trimethylbenzene	12.497	105	313558	57.6660	ug/Kg	99
92) 2-Chlorotoluene	12.503	91	284895	56.2068	ug/Kg	99
93) trans-1,4-Dichloro-2-B...	12.552	53	32424	55.8940	ug/Kg	99
94) 1,2,3-Trichloropropane	12.533	110	30923	59.9901	ug/Kg	98
95) Cyclohexanone	12.582	55	19181	160.6815	ug/Kg	96
96) 4-Chlorotoluene	12.613	91	263326	55.7534	ug/Kg	100
97) tert-Butylbenzene	12.722	91	173391	56.8672	ug/Kg	100
98) 1,2,4-Trimethylbenzene	12.765	105	318134	58.5708	ug/Kg	97
99) Pentachloroethane	12.765	167	34369	46.1347	ug/Kg	93
100) sec-Butylbenzene	12.844	105	387989	53.6073	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	352671	56.9187	ug/Kg	100
102) 1,3-Dichlorobenzene	13.021	146	182055	53.7559	ug/Kg	98
103) 1,2,3-Trimethylbenzene	13.070	105	331684	58.2267	ug/Kg	100
104) 1,4-Dichlorobenzene	13.082	146	190124	55.5035	ug/Kg	99
105) n-Butylbenzene	13.216	92	180940	58.7249	ug/Kg	99
106) Benzyl Chloride	13.241	126	33662	48.9414	ug/Kg	95
107) 1,2-Dichlorobenzene	13.375	146	178780	56.1862	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193014.d
Acq On : 17 Jul 2024 4:24 pm
Operator : davidb2
Sample : FC17088-3MS Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 01:47:42 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

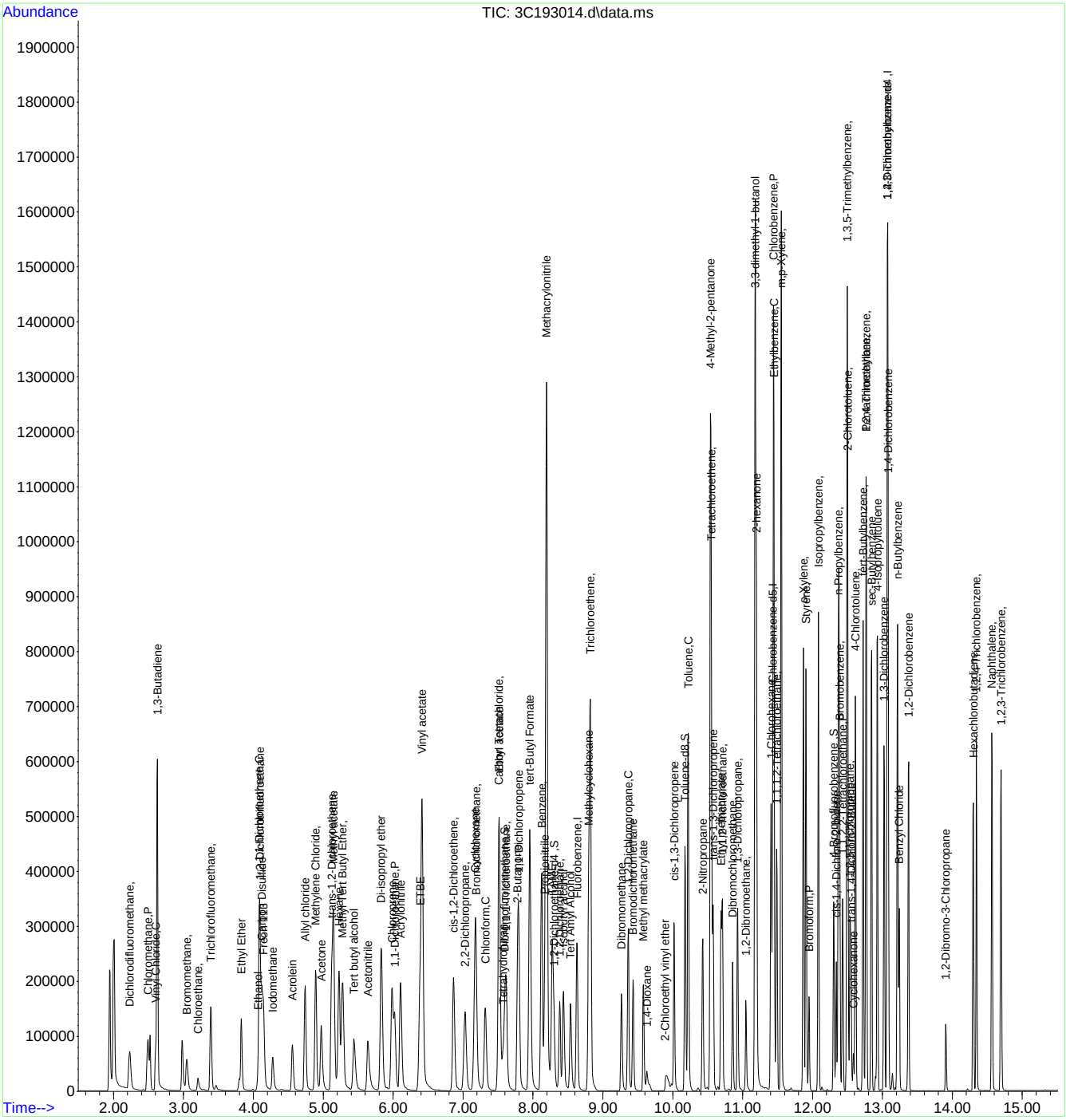
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	18061	57.0503	ug/Kg	98
109) Hexachlorobutadiene	14.301	225	72355	56.7121	ug/Kg	99
110) 1,2,4-Trichlorobenzene	14.344	180	133433	55.9810	ug/Kg	99
111) Naphthalene	14.563	128	351532	58.3080	ug/Kg	100
112) 1,2,3-Trichlorobenzene	14.698	180	134406	56.1046	ug/Kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193014.d
Acq On : 17 Jul 2024 4:24 pm
Operator : davidb2
Sample : FC17088-3MS Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Jul 18 01:47:42 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193015.d
Acq On : 17 Jul 2024 4:48 pm
Operator : davidb2
Sample : FC17088-3MSD Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 18 01:47:50 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	223354	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	169672	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	85551	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	57078	49.83	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.66%			
49) 1,2-Dichloroethane-d4	8.303	65	61841	49.55	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.10%			
63) Toluene-d8	10.174	98	208869	48.64	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.28%			
86) 4-Bromofluorobenzene	12.302	174	66861	50.25	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	78074	81.1601	ug/Kg	95
3) Chloromethane	2.487	50	117096	63.4533	ug/Kg	99
4) 1,3-Butadiene	2.627	54	168075	110.4396	ug/Kg	99
5) Vinyl Chloride	2.602	62	92868	67.8640	ug/Kg	95
6) Bromomethane	3.047	94	43242	72.7266	ug/Kg	97
7) Chloroethane	3.206	64	19990	64.0180	ug/Kg	96
8) Trichlorofluoromethane	3.395	101	115359	60.4898	ug/Kg	99
9) Ethyl Ether	3.828	59	64812	49.1233	ug/Kg	96
10) Ethanol	4.059	45	30215	1007.7451	ug/Kg	84
11) 1,2-Dichlorotrifluoroe...	4.096	67	83246	49.1019	ug/Kg	98
12) 1,1-Dichloroethene	4.084	61	123291	55.1373	ug/Kg	98
13) Freon 113	4.145	101	68675	46.3855	ug/Kg	97
14) Carbon Disulfide	4.120	76	146318	36.4698	ug/Kg	100
15) Iodomethane	4.279	142	81937	45.8645	ug/Kg	99
16) Allyl chloride	4.742	41	130280	54.3528	ug/Kg	98
17) Acrolein	4.559	56	70924	236.5662	ug/Kg	100
18) Methylene Chloride	4.895	49	143842	54.5393	ug/Kg	98
19) Acetone	4.974	43	153301	269.3700	ug/Kg	96
20) Methyl acetate	5.145	43	390863	284.4714	ug/Kg	100
21) trans-1,2-Dichloroethene	5.120	61	123340	54.6691	ug/Kg	98
22) Hexane	5.224	56	65589	41.9117	ug/Kg	96
23) Methyl Tert Butyl Ether	5.279	73	199375	52.3274	ug/Kg	97
24) Tert butyl alcohol	5.443	59	125371	535.7895	ug/Kg	99
25) Acetonitrile	5.638	41	130709	554.1837	ug/Kg	98
26) Di-isopropyl ether	5.833	45	276460	50.7171	ug/Kg	99
27) Chloroprene	5.986	53	123556	57.1571	ug/Kg	99
28) 1,1-Dichloroethane	6.022	63	151947	53.5869	ug/Kg	98
29) Acrylonitrile	6.108	53	175630	277.9433	ug/Kg	98
30) ETBE	6.388	59	230862	51.9273	ug/Kg	98
31) Vinyl acetate	6.413	43	755286	226.1742	ug/Kg	100
32) cis-1,2-Dichloroethene	6.864	96	102983	65.6790	ug/Kg	98
33) 2,2-Dichloropropane	7.028	77	105194	56.9497	ug/Kg	97
34) Bromochloromethane	7.181	128	40309	50.1743	ug/Kg	95
35) Cyclohexane	7.175	56	135785	46.9517	ug/Kg	96
36) Chloroform	7.321	83	138038	55.3972	ug/Kg	98
37) Ethyl acetate	7.516	43	478623	269.8268	ug/Kg	99
38) Tetrahydrofuran	7.571	42	34251	51.6151	ug/Kg	93
40) Carbon Tetrachloride	7.510	117	107686	54.4684	ug/Kg	97
41) 1,1,1-Trichloroethane	7.614	97	120684	54.2985	ug/Kg	97
42) 2-Butanone	7.784	43	224324	246.9757	ug/Kg	100
43) 1,1-Dichloropropene	7.797	75	107681	55.3781	ug/Kg	99
44) tert-Butyl Formate	7.955	59	206534	216.8108	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193015.d
Acq On : 17 Jul 2024 4:48 pm
Operator : davidb2
Sample : FC17088-3MSD Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 18 01:47:50 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	145268	575.9471	ug/Kg	97
46) Methacrylonitrile	8.193	41	604976	584.3440	ug/Kg	98
47) Benzene	8.126	78	319196	54.6938	ug/Kg	100
48) TAME	8.278	73	182373	50.8688	ug/Kg	99
50) 1,2-Dichloroethane	8.382	62	112834	55.0907	ug/Kg	99
51) Isobutyl alcohol	8.437	42	64606	1115.7721	ug/Kg	99
52) Tert Amyl Alcohol	8.540	59	87687	542.1839	ug/Kg	93
53) Trichloroethene	8.821	95	174539	111.7270	ug/Kg	97
54) Methylcyclohexane	8.796	83	125548	48.7060	ug/Kg	97
55) Dibromomethane	9.266	93	50177	57.4122	ug/Kg	97
56) 1,2-Dichloropropane	9.363	63	89447	58.5856	ug/Kg	98
57) Bromodichloromethane	9.430	83	96086	55.0112	ug/Kg	98
58) Methyl methacrylate	9.577	41	83593	57.5811	ug/Kg	98
59) 1,4-Dioxane	9.632	88	23332	1071.5269	ug/Kg	96
60) 2-Chloroethyl vinyl ether	9.888	63	817	239.7815	ug/Kg#	1
61) cis-1,3-Dichloropropene	10.016	75	123139	53.6856	ug/Kg	98
64) Toluene	10.223	91	341318	54.2931	ug/Kg	99
65) 2-Nitropropane	10.430	41	118054	277.4768	ug/Kg	99
66) 4-Methyl-2-pentanone	10.540	43	488339	278.4584	ug/Kg	98
67) trans-1,3-Dichloropropene	10.576	75	107697	53.7061	ug/Kg	98
68) Tetrachloroethene	10.552	166	128244	60.5708	ug/Kg	98
69) Ethyl methacrylate	10.692	69	99984	56.7516	ug/Kg	97
70) 1,1,2-Trichloroethane	10.711	83	59853	55.2046	ug/Kg	96
71) Dibromochloromethane	10.857	129	85371	53.7117	ug/Kg	98
72) 1,3-Dichloropropane	10.930	76	127038	59.3016	ug/Kg	99
73) 1,2-Dibromoethane	11.046	107	77635	55.6023	ug/Kg	95
74) 3,3-dimethyl-1-butanol	11.180	57	573541	2453.5371	ug/Kg	100
75) 2-hexanone	11.198	43	460953	283.3418	ug/Kg	98
76) 1-Chlorohexane	11.406	91	102318	49.6782	ug/Kg	98
77) Ethylbenzene	11.448	91	366055	52.7982	ug/Kg	99
78) Chlorobenzene	11.442	112	227598	53.6240	ug/Kg	99
79) 1,1,1,2-Tetrachloroethane	11.485	131	84928	55.7564	ug/Kg	99
80) m,p-Xylene	11.552	91	571591	106.8932	ug/Kg	100
81) o-Xylene	11.869	91	284059	52.9667	ug/Kg	97
82) Styrene	11.905	104	230835	55.9707	ug/Kg	99
83) Bromoform	11.948	173	52064	52.4135	ug/Kg	97
84) Isopropylbenzene	12.082	105	359441	52.7754	ug/Kg	99
87) cis-1,4-Dichloro-2-butene	12.338	53	36333	58.5472	ug/Kg	98
88) n-Propylbenzene	12.369	91	414196	53.3414	ug/Kg	100
89) Bromobenzene	12.387	156	104684	57.3134	ug/Kg	98
90) 1,1,2,2-Tetrachloroethane	12.430	83	95349	55.4933	ug/Kg	99
91) 1,3,5-Trimethylbenzene	12.497	105	296285	54.4702	ug/Kg	100
92) 2-Chlorotoluene	12.503	91	269880	53.2258	ug/Kg	99
93) trans-1,4-Dichloro-2-B...	12.552	53	30773	53.1178	ug/Kg	94
94) 1,2,3-Trichloropropane	12.533	110	30946	60.0136	ug/Kg	94
95) Cyclohexanone	12.582	55	18983	158.9982	ug/Kg	98
96) 4-Chlorotoluene	12.613	91	250896	53.1030	ug/Kg	98
97) tert-Butylbenzene	12.722	91	165186	54.1572	ug/Kg	100
98) 1,2,4-Trimethylbenzene	12.765	105	300235	55.2561	ug/Kg	97
99) Pentachloroethane	12.765	167	32295	43.3355	ug/Kg	89
100) sec-Butylbenzene	12.844	105	371602	51.3252	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	331783	53.5288	ug/Kg	99
102) 1,3-Dichlorobenzene	13.021	146	174562	51.5253	ug/Kg	99
103) 1,2,3-Trimethylbenzene	13.070	105	317318	55.6852	ug/Kg	99
104) 1,4-Dichlorobenzene	13.082	146	181572	52.9883	ug/Kg	99
105) n-Butylbenzene	13.216	92	170720	55.3885	ug/Kg	96
106) Benzyl Chloride	13.241	126	32108	46.8192	ug/Kg	99
107) 1,2-Dichlorobenzene	13.375	146	169368	53.2096	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193015.d
Acq On : 17 Jul 2024 4:48 pm
Operator : davidb2
Sample : FC17088-3MSD Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 18 01:47:50 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

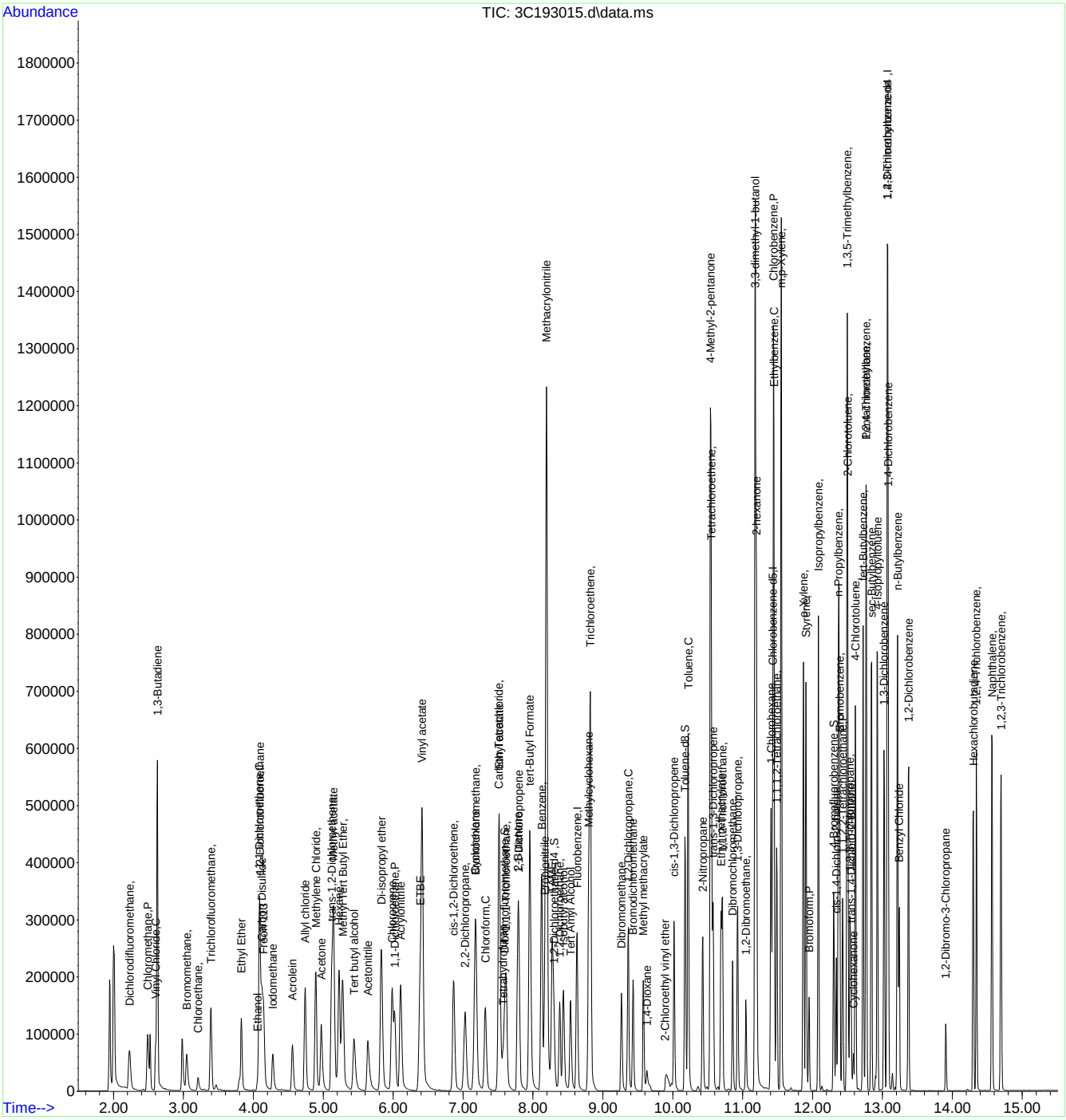
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	17619	55.7232	ug/Kg	96
109) Hexachlorobutadiene	14.301	225	67504	52.8913	ug/Kg	98
110) 1,2,4-Trichlorobenzene	14.344	180	127188	53.3423	ug/Kg	99
111) Naphthalene	14.570	128	346360	57.4300	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	128723	53.7135	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193015.d
Acq On : 17 Jul 2024 4:48 pm
Operator : davidb2
Sample : FC17088-3MSD Inst : MSVOA19-3C
Misc : MS57072,V3C1232,5.1,,5,5,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Jul 18 01:47:50 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Methods: SW-846 8260B

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Data File : C:\msdchem\1\data\2024-06-27\3C192745.D      Vial: 1
Acq On    : 27 Jun 2024  12:56 pm                    Operator: davidb2
Sample    : BFB                                      Inst    : MSVOA19-3C
Misc      : MS56069,V3C1220,5.00,,,5,                Multiplr: 1.00
MS Integration Params: rteint.p

Method    : C:\msdchem\1\met...3C1220_062724_.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260
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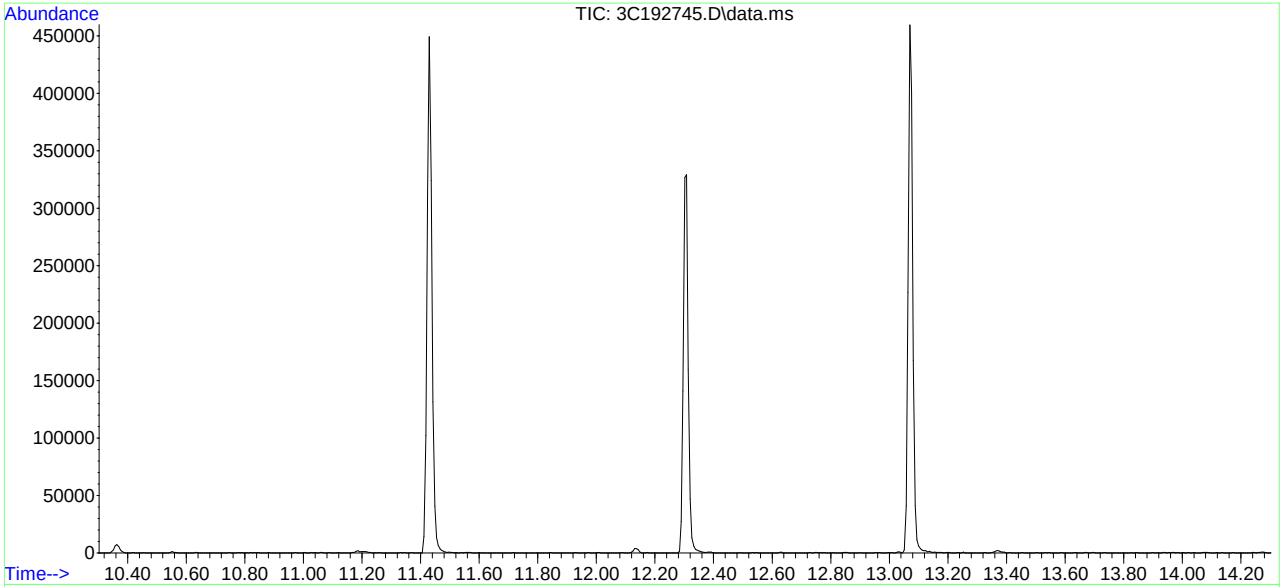

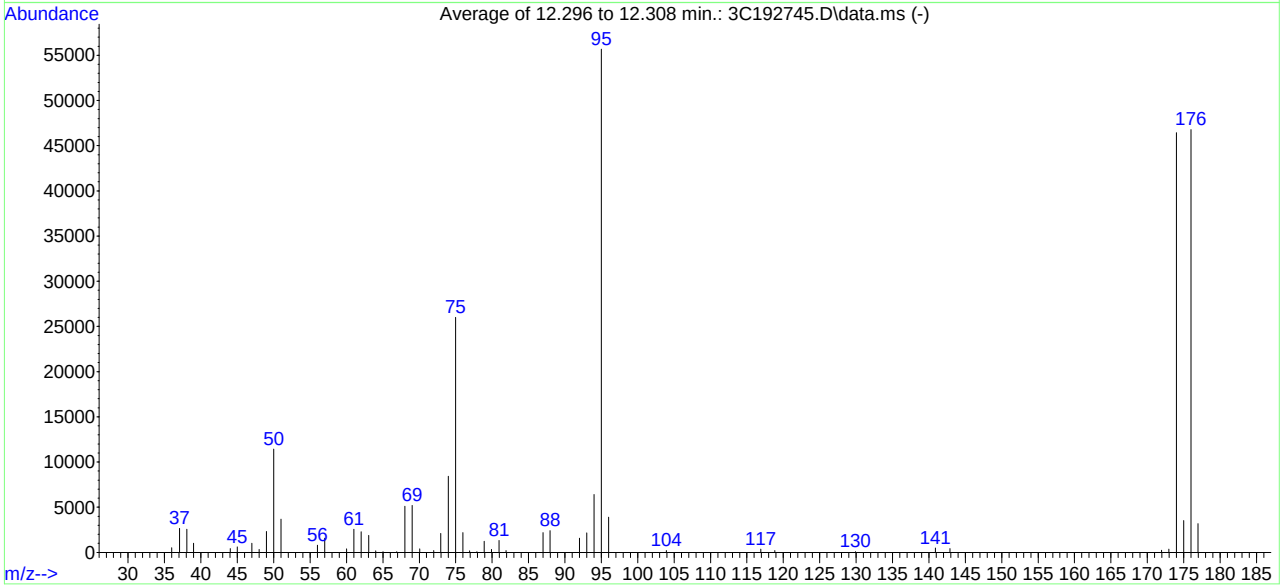

AutoFind: Scans 1773, 1774, 1775; Background Corrected with Scan 1768

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	55669	PASS
96	95	5	9	7.0	3899	PASS
173	174	0.00	2	0.8	354	PASS
174	95	50	200	83.4	46437	PASS
175	174	5	9	7.6	3529	PASS
176	174	95	105	100.7	46776	PASS
177	176	5	10	6.8	3180	PASS

3C192745.D V3C1220_062724_.M Fri Jun 28 09:33:45 2024

Methods: SW-846 8260B

```
Data File : C:\msdchem\1\data\2024-07-17\3C193000.D      Vial: 1
Acq On    : 17 Jul 2024  10:26 am                    Operator: davidb2
Sample    : BFB                                      Inst    : MSVOA19-3C
Misc      : MS56069,V3C1232,5.00,,,5,                Multiplr: 1.00
MS Integration Params: rteint.p

Method    : C:\msdchem\1\met...3C1220_062724_.M (RTE Integrator)
Title     : SW-846 Method 5035A/8260
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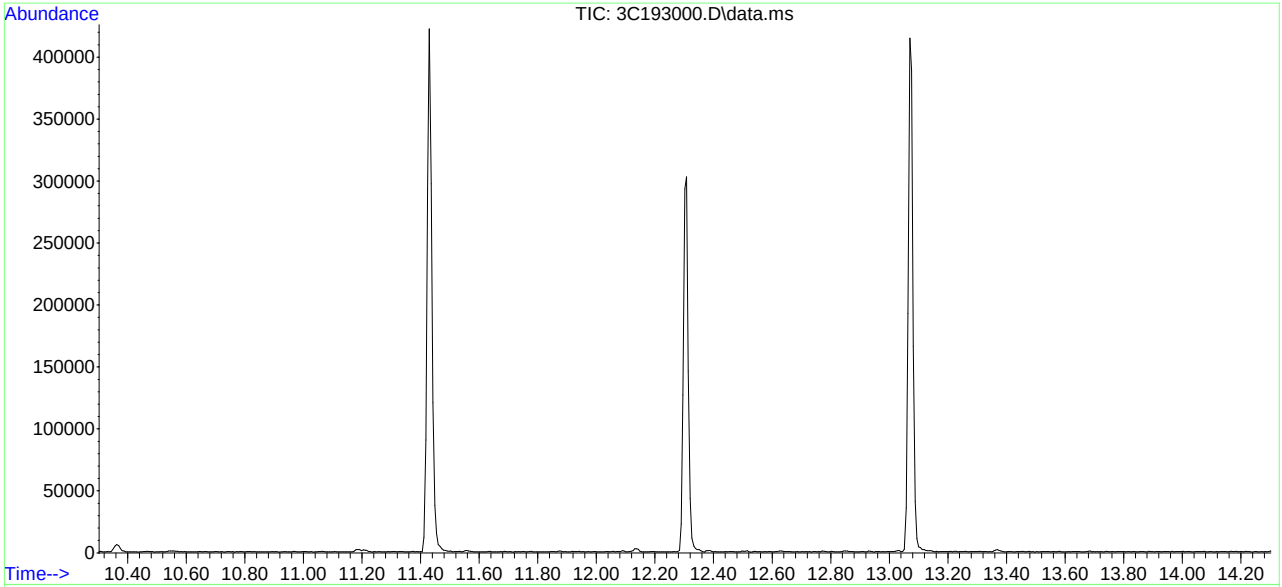
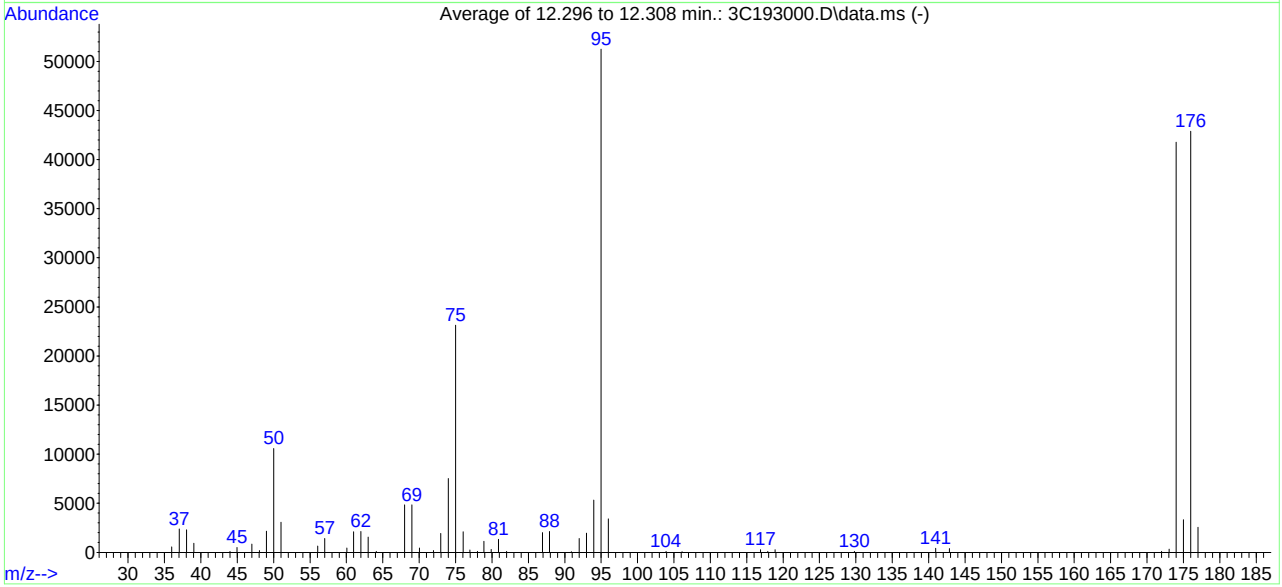




AutoFind: Scans 1773, 1774, 1775; Background Corrected with Scan 1768

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	51243	PASS
96	95	5	9	6.7	3412	PASS
173	174	0.00	2	0.8	320	PASS
174	95	50	200	81.5	41784	PASS
175	174	5	9	8.0	3340	PASS
176	174	95	105	102.7	42901	PASS
177	176	5	10	6.0	2561	PASS

3C193000.D V3C1220_062724_.M Wed Jul 17 11:44:50 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
06/28/24 10:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:23:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	248088	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	188316	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	94143	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	60590	47.29	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 94.58%			
49) 1,2-Dichloroethane-d4	8.303	65	70174	49.74	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.48%			
63) Toluene-d8	10.174	98	233942	48.89	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 97.78%			
86) 4-Bromofluorobenzene	12.308	174	73472	50.21	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.42%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.237	85	5137	3.50	ug/Kg	95
3) Chloromethane	2.487	50	10620	4.28	ug/Kg	97
4) 1,3-Butadiene	2.627	54	7036	3.39	ug/Kg	96
5) Vinyl Chloride	2.603	62	6274	3.46	ug/Kg	91
6) Bromomethane	3.048	94	3634	3.90	ug/Kg	98
7) Chloroethane	3.200	64	1339	3.45	ug/Kg#	34
8) Trichlorofluoromethane	3.383	101	9552	4.06	ug/Kg	97
9) Ethyl Ether	3.834	59	5631	3.63	ug/Kg	97
10) Ethanol	4.090	45	2043	59.12	ug/Kg	91
11) 1,2-Dichlorotrifluoroe...	4.090	67	8004	5.96	ug/Kg	91
12) 1,1-Dichloroethene	4.084	61	10196	4.12	ug/Kg	96
13) Freon 113	4.145	101	6919	4.09	ug/Kg	94
14) Carbon Disulfide	4.114	76	17813	3.92	ug/Kg	92
15) Iodomethane	4.279	142	4128m	2.04	ug/Kg	
16) Allyl chloride	4.736	41	10427	3.57	ug/Kg	97
17) Acrolein	4.559	56	6324	16.68	ug/Kg	100
18) Methylene Chloride	4.895	49	35249	10.58	ug/Kg	99
19) Acetone	4.980	43	15684	24.87	ug/Kg	89
20) Methyl acetate	5.151	43	30988	20.17	ug/Kg	96
21) trans-1,2-Dichloroethene	5.126	61	10787	4.29	ug/Kg	85
22) Hexane	5.224	56	10127	5.98	ug/Kg	94
23) Methyl Tert Butyl Ether	5.279	73	16217	3.67	ug/Kg	94
24) Tert butyl alcohol	5.462	59	9971	38.12	ug/Kg	94
25) Acetonitrile	5.651	41	14105	50.55	ug/Kg	97
26) Di-isopropyl ether	5.840	45	22781	3.61	ug/Kg	97
27) Chloroprene	5.980	53	8766	3.33	ug/Kg	98
28) 1,1-Dichloroethane	6.023	63	13145	4.09	ug/Kg	99
29) Acrylonitrile	6.114	53	13745	18.22	ug/Kg	96
30) ETBE	6.394	59	18593	3.57	ug/Kg	92
31) Vinyl acetate	6.419	43	77005	18.81	ug/Kg	98
32) cis-1,2-Dichloroethene	6.870	96	6685	3.70	ug/Kg	90
33) 2,2-Dichloropropane	7.022	77	7814	3.74	ug/Kg	96
34) Bromochloromethane	7.193	128	3559m	3.93	ug/Kg	
35) Cyclohexane	7.169	56	13049	3.97	ug/Kg	93
36) Chloroform	7.321	83	11500	4.04	ug/Kg	96
37) Ethyl acetate	7.522	43	40606	18.94	ug/Kg	98
38) Tetrahydrofuran	7.583	42	3101	4.02	ug/Kg	97
40) Carbon Tetrachloride	7.510	117	9056	4.10	ug/Kg	90
41) 1,1,1-Trichloroethane	7.620	97	10459	4.15	ug/Kg	89
42) 2-Butanone	7.797	43	21603	21.02	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	8574	3.95	ug/Kg	96
44) tert-Butyl Formate	7.961	59	17198	16.13	ug/Kg	82

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:23:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.175	54	11794	39.66	ug/Kg	83
46) Methacrylonitrile	8.199	41	49601	39.73	ug/Kg	97
47) Benzene	8.126	78	27614	4.19	ug/Kg	98
48) TAME	8.278	73	15102	3.58	ug/Kg	84
50) 1,2-Dichloroethane	8.382	62	9562	4.06	ug/Kg	93
51) Isobutyl alcohol	8.449	42	3511	51.52	ug/Kg	82
52) Tert Amyl Alcohol	8.553	59	5566	31.09	ug/Kg	90
53) Trichloroethene	8.821	95	7309	4.07	ug/Kg	97
54) Methylcyclohexane	8.796	83	11601	3.95	ug/Kg	92
55) Dibromomethane	9.272	93	3704	3.74	ug/Kg	92
56) 1,2-Dichloropropane	9.363	63	7013	3.86	ug/Kg	92
57) Bromodichloromethane	9.431	83	6910	3.39	ug/Kg	90
58) Methyl methacrylate	9.589	41	4814m	2.78	ug/Kg	
59) 1,4-Dioxane	9.638	88	1351	55.58	ug/Kg#	73
61) cis-1,3-Dichloropropene	10.022	75	8327	3.21	ug/Kg	96
64) Toluene	10.223	91	30868	4.32	ug/Kg	100
65) 2-Nitropropane	10.430	41	6633	13.62	ug/Kg	94
66) 4-Methyl-2-pentanone	10.540	43	40810m	19.83	ug/Kg	
67) trans-1,3-Dichloropropene	10.583	75	7978	3.19	ug/Kg	94
68) Tetrachloroethene	10.552	166	8926	3.39	ug/Kg	90
69) Ethyl methacrylate	10.692	69	5552m	2.65	ug/Kg	
70) 1,1,2-Trichloroethane	10.711	83	5074	3.99	ug/Kg	96
71) Dibromochloromethane	10.857	129	5914	3.23	ug/Kg	97
72) 1,3-Dichloropropane	10.930	76	9946	4.02	ug/Kg	90
73) 1,2-Dibromoethane	11.052	107	5860	3.61	ug/Kg	93
74) 3,3-dimethyl-1-butanol	11.180	57	37403	135.72	ug/Kg	98
75) 2-hexanone	11.198	43	36236	19.20	ug/Kg	92
76) 1-Chlorohexane	11.406	91	9298	3.87	ug/Kg	98
77) Ethylbenzene	11.448	91	33293	4.18	ug/Kg	97
78) Chlorobenzene	11.442	112	21181	4.35	ug/Kg	94
79) 1,1,1,2-Tetrachloroethane	11.491	131	6556	3.71	ug/Kg	95
80) m,p-Xylene	11.552	91	51088	8.30	ug/Kg	99
81) o-Xylene	11.869	91	23674	3.85	ug/Kg	96
82) Styrene	11.912	104	15995	3.14	ug/Kg	92
83) Bromoform	11.954	173	3309	3.04	ug/Kg	98
84) Isopropylbenzene	12.089	105	30131	3.85	ug/Kg	96
87) cis-1,4-Dichloro-2-butene	12.338	53	2452	3.37	ug/Kg#	72
88) n-Propylbenzene	12.375	91	36438	4.18	ug/Kg	96
89) Bromobenzene	12.387	156	8904	4.29	ug/Kg	89
90) 1,1,2,2-Tetrachloroethane	12.430	83	7935	4.02	ug/Kg	90
91) 1,3,5-Trimethylbenzene	12.497	105	24154	3.92	ug/Kg	94
92) 2-Chlorotoluene	12.503	91	24306	4.25	ug/Kg	95
93) trans-1,4-Dichloro-2-B...	12.552	53	2114	3.05	ug/Kg	83
94) 1,2,3-Trichloropropane	12.540	110	2394	4.04	ug/Kg	96
95) Cyclohexanone	12.588	55	1952	15.25	ug/Kg	88
96) 4-Chlorotoluene	12.619	91	22532	4.22	ug/Kg	95
97) tert-Butylbenzene	12.723	91	13879	4.03	ug/Kg	90
98) 1,2,4-Trimethylbenzene	12.771	105	23853	3.90	ug/Kg	97
99) Pentachloroethane	12.765	167	3772	4.35	ug/Kg	91
100) sec-Butylbenzene	12.844	105	33015	4.03	ug/Kg	98
101) 4-Isopropyltoluene	12.930	119	26607	3.83	ug/Kg	96
102) 1,3-Dichlorobenzene	13.027	146	16253	4.24	ug/Kg	95
103) 1,2,3-Trimethylbenzene	13.076	105	25625	4.04	ug/Kg	87
104) 1,4-Dichlorobenzene	13.082	146	17055	4.36	ug/Kg	95
105) n-Butylbenzene	13.216	92	12992	3.72	ug/Kg	91
106) Benzyl Chloride	13.241	126	1881	2.40	ug/Kg#	66
107) 1,2-Dichlorobenzene	13.375	146	14774	4.07	ug/Kg	96
108) 1,2-Dibromo-3-Chloropr...	13.911	75	936m	2.65	ug/Kg	

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:23:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

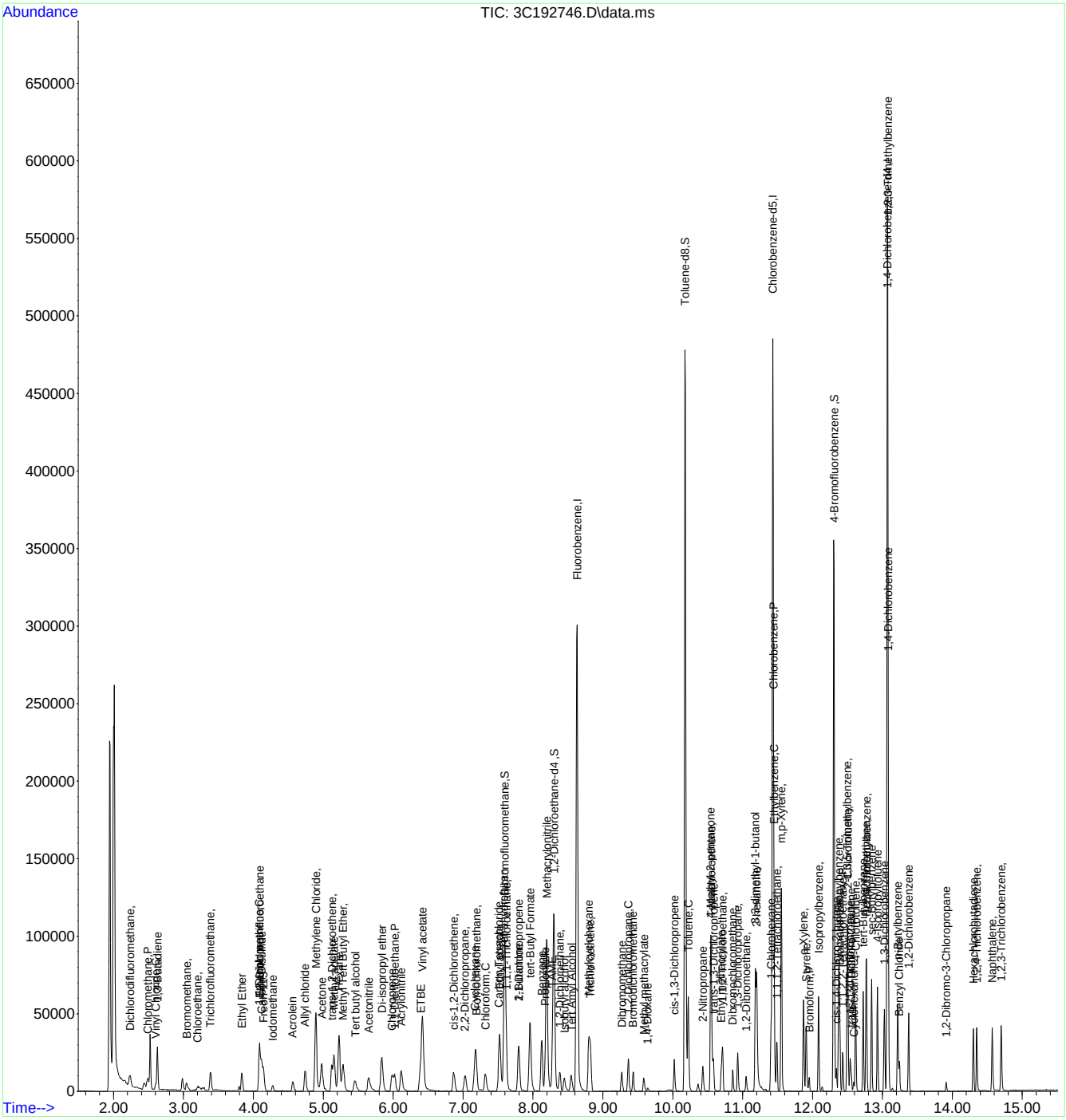
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	14.302	225	5990	4.13	ug/Kg	96
110) 1,2,4-Trichlorobenzene	14.350	180	10472	3.76	ug/Kg	93
111) Naphthalene	14.570	128	24145	3.22	ug/Kg	97
112) 1,2,3-Trichlorobenzene	14.698	180	10734	3.88	ug/Kg	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:23:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Manual Integration Approval Summary

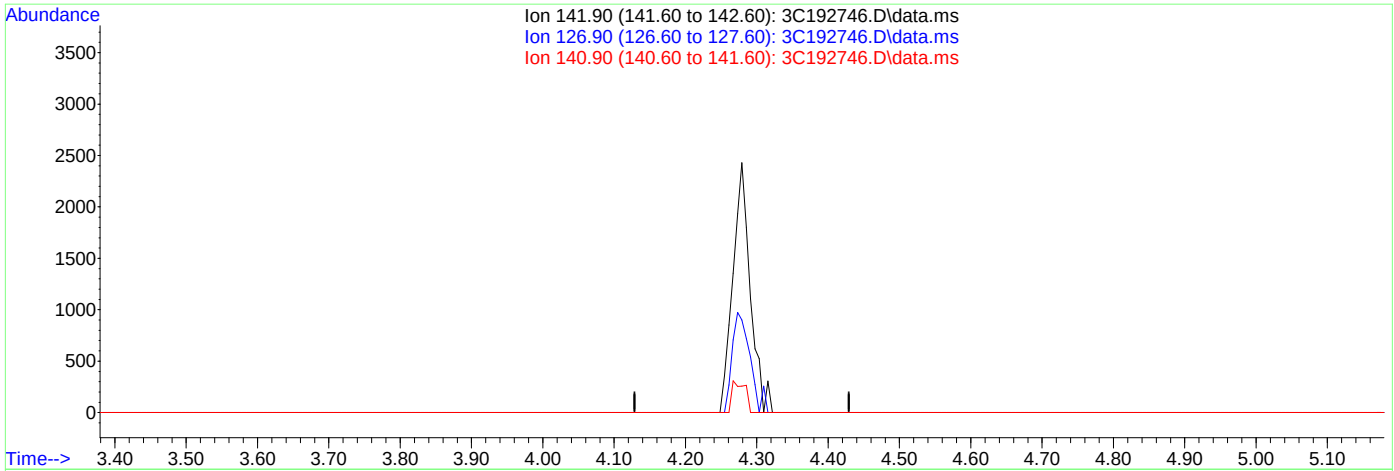
Sample Number: V3C1220-IC1220
Lab FileID: 3C192746.D
Injection Time: 06/27/24 14:32
Method: SW846 8260D
Analyst approved: 06/28/24 09:37 David Butler
Supervisor approved: 06/28/24 10:56 Karen Watson

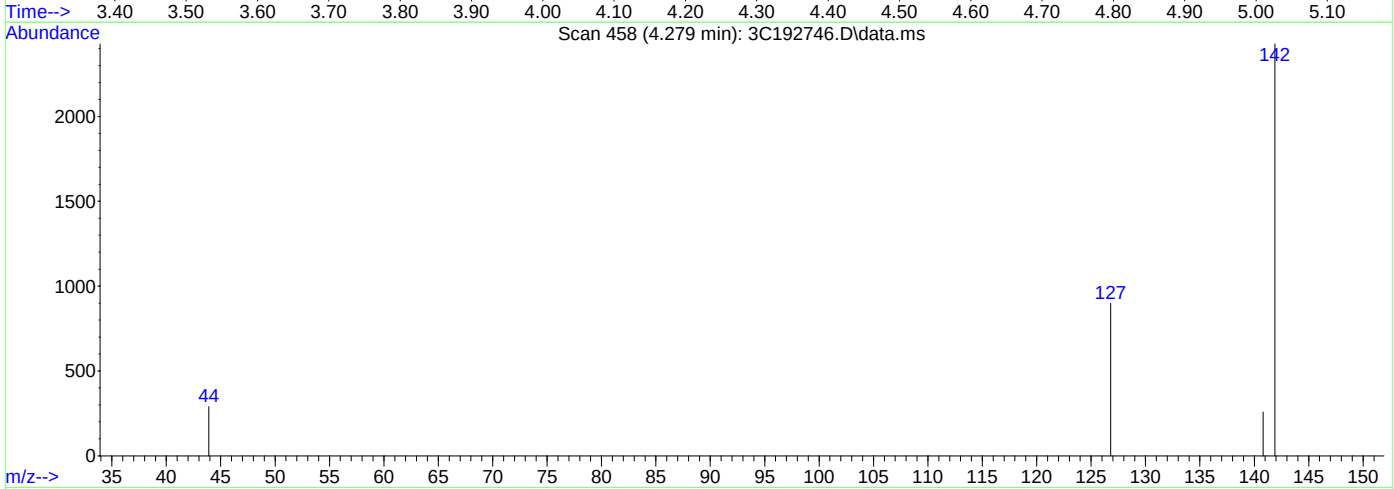
Parameter	CAS	Sig#	R.T. (min.)	Reason
Methyl Iodide	74-88-4		4.28	Missed peak
Bromochloromethane	74-97-5		7.19	Missed peak
Methyl Methacrylate	80-62-6		9.59	Missed peak
4-Methyl-2-pentanone (MIBK)	108-10-1		10.54	Missed peak
Ethyl Methacrylate	97-63-2		10.69	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		13.91	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(15) Iodomethane

4.279min (-4.279) 0.00ug/Kg

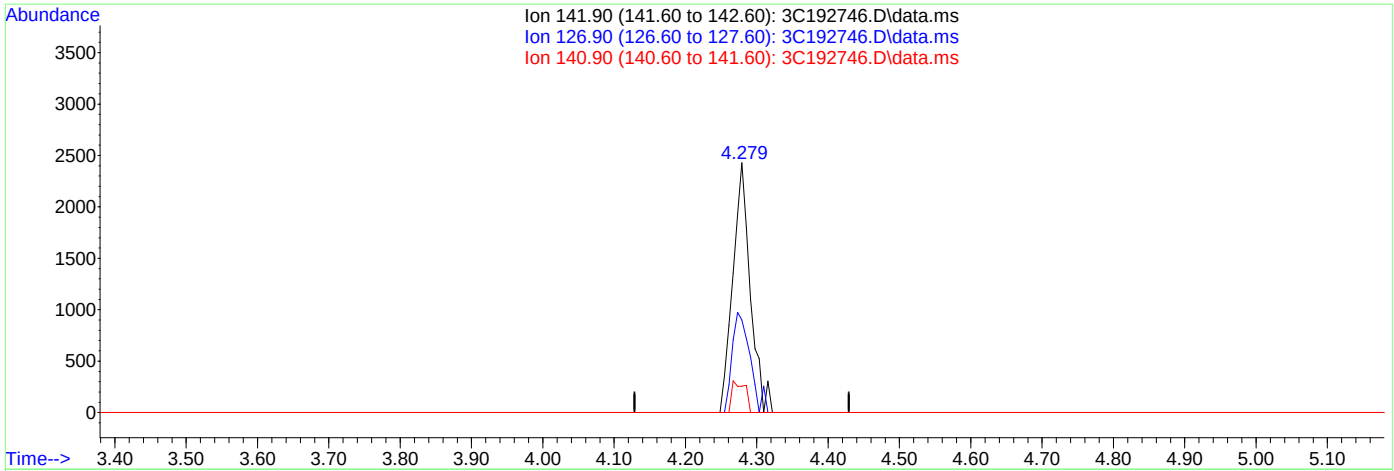
response 0

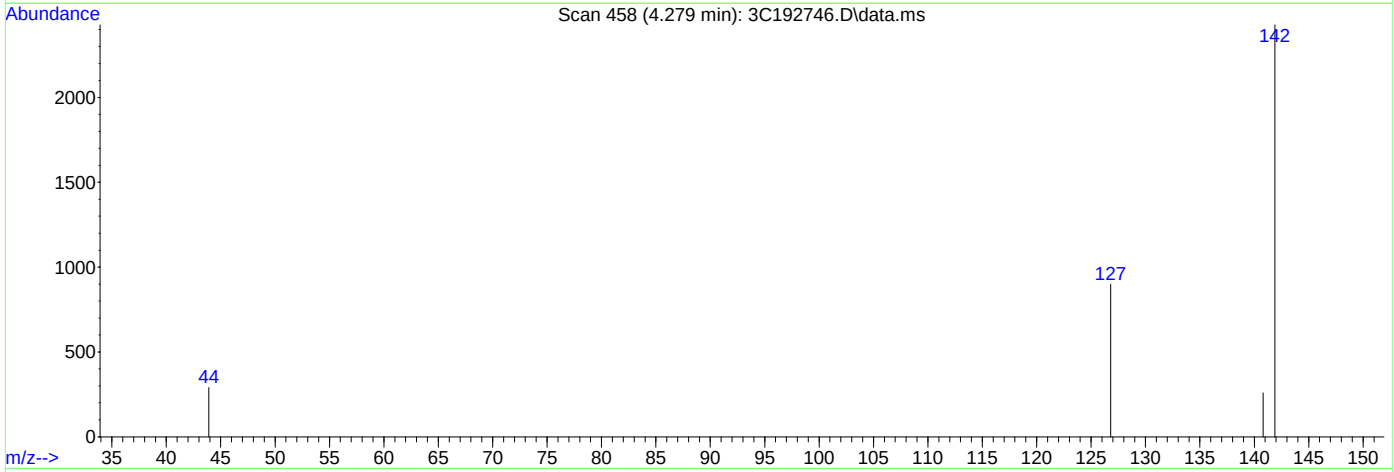
Ion	Exp%	Act%
141.90	100	0.00
126.90	40.40	0.00#
140.90	13.70	0.00
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(15) Iodomethane

4.279min (+0.000) 2.04ug/Kg m

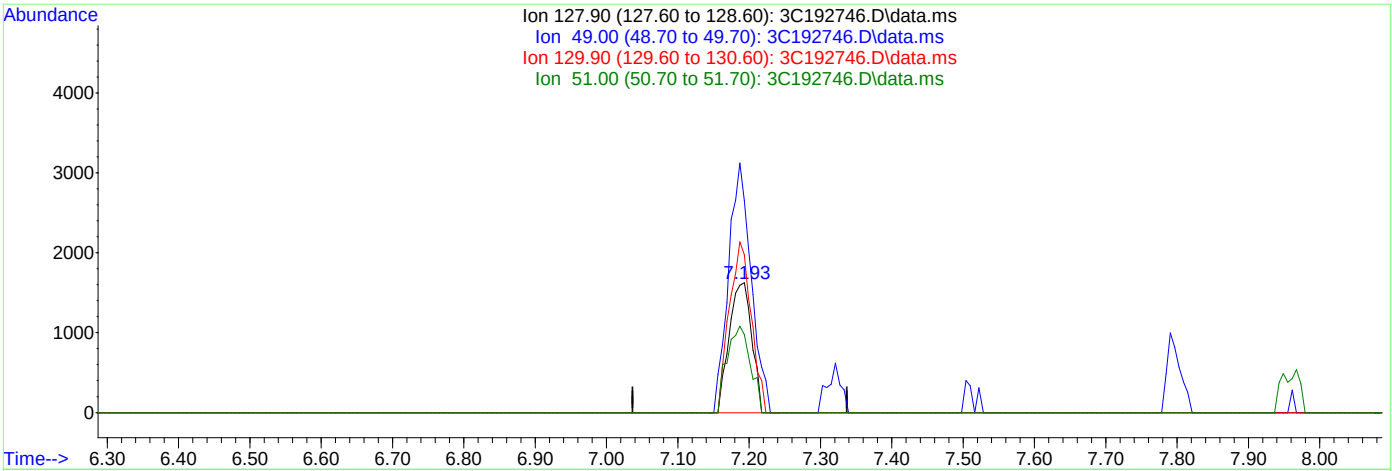
response 4128

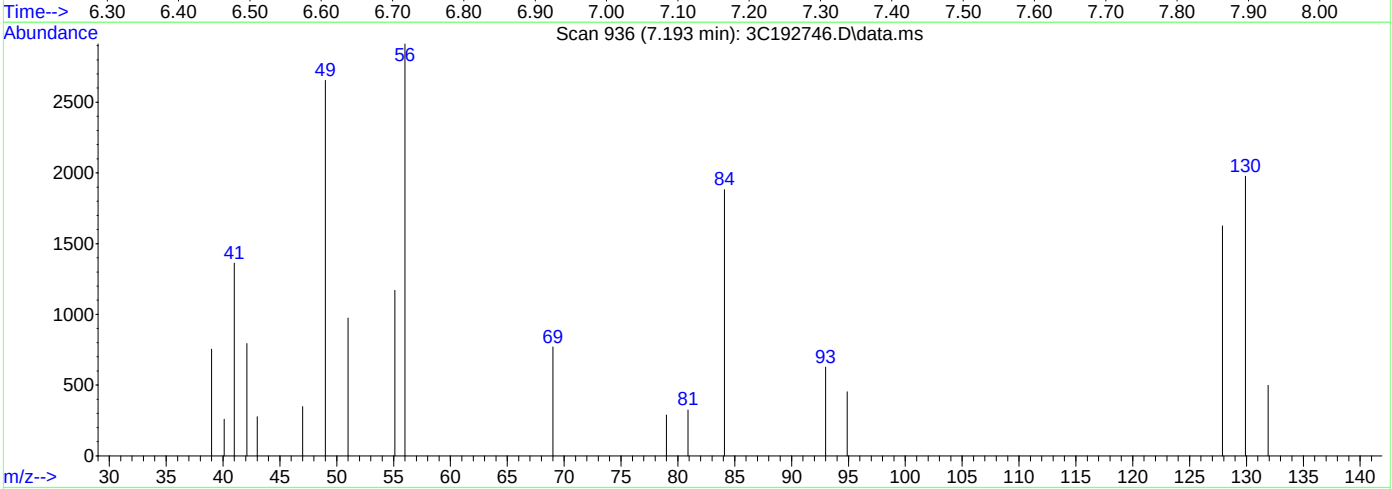
Ion	Exp%	Act%
141.90	100	100
126.90	40.40	37.07
140.90	13.70	10.63
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(34) Bromochloromethane ( )

7.193min (+0.006) 3.93ug/Kg m

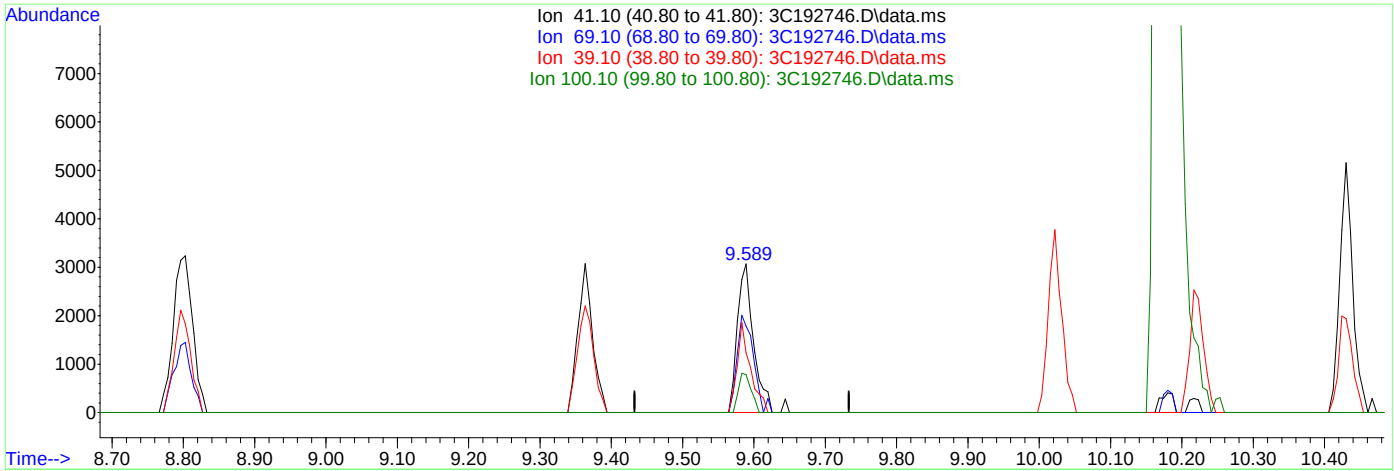
response 3559

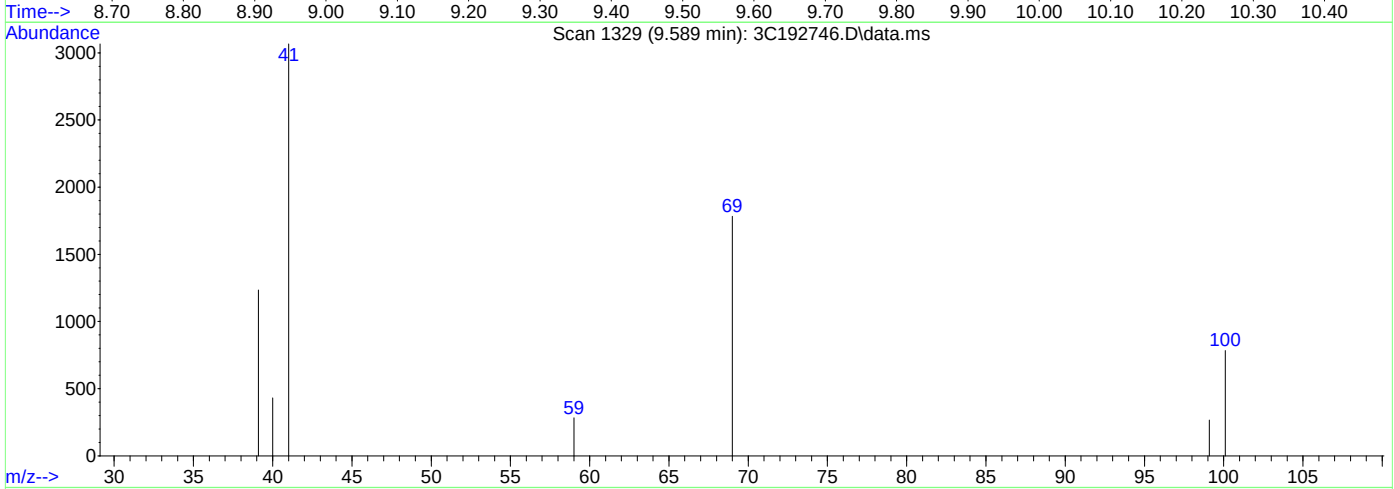
Ion	Exp%	Act%
127.90	100	100
49.00	176.00	163.22
129.90	127.20	121.53
51.00	61.20	59.96

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(58) Methyl methacrylate

9.589min (+0.006) 2.78ug/Kg m

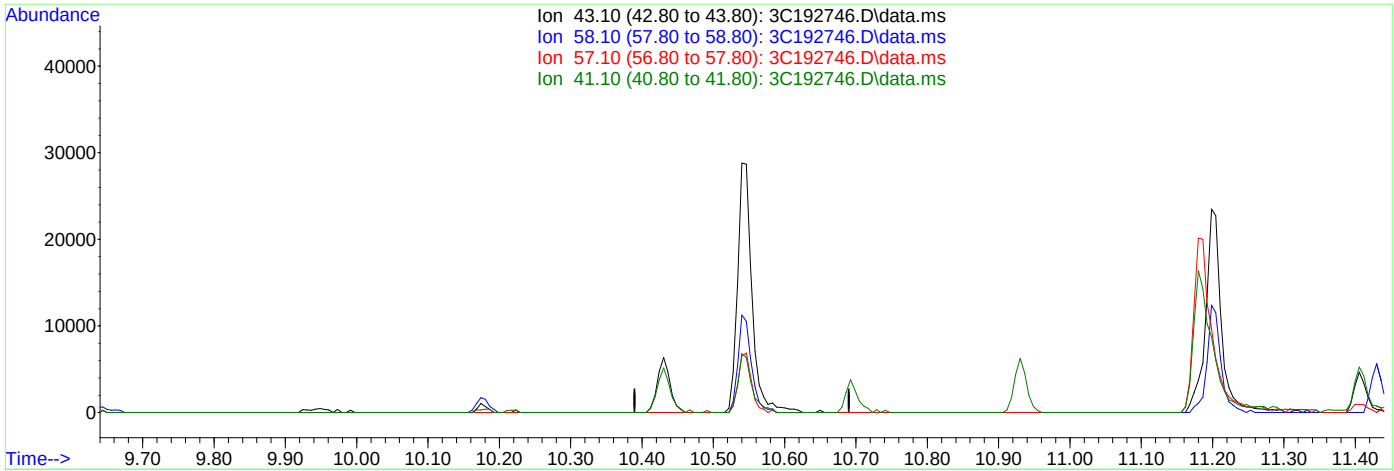
response 4814

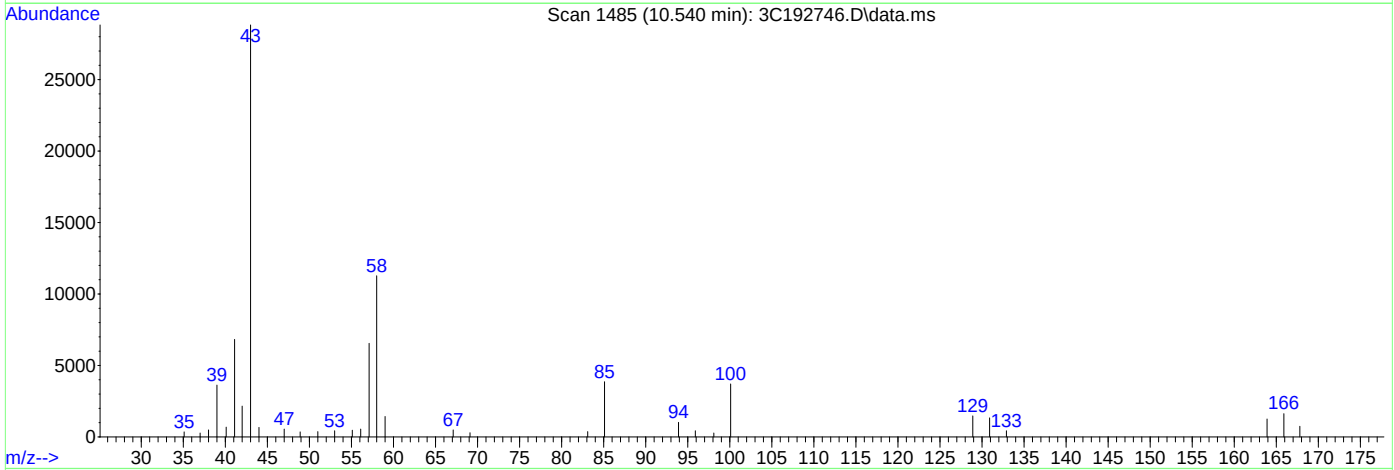
Ion	Exp%	Act%
41.10	100	100
69.10	69.30	58.10
39.10	51.80	40.23
100.10	29.40	25.56

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(66) 4-Methyl-2-pentanone

10.540min (-10.540) 0.00ug/Kg

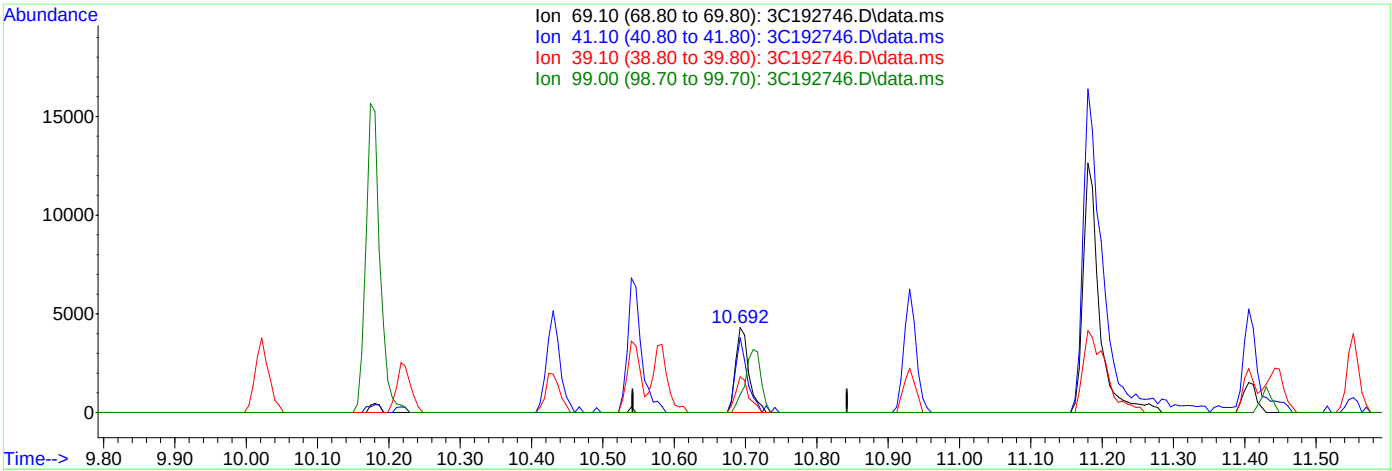
response 0

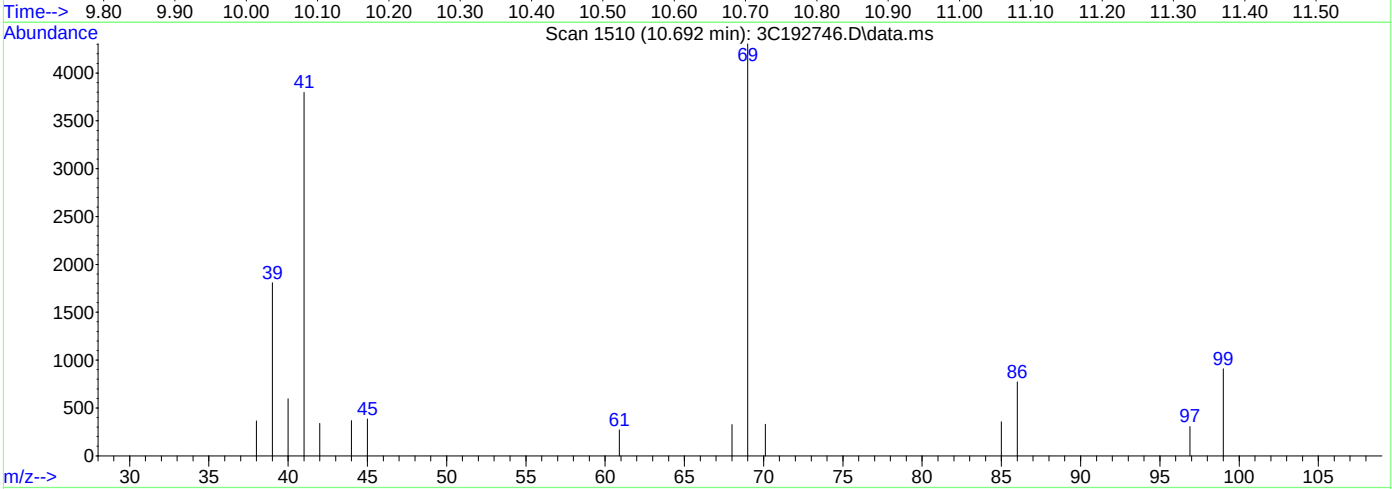
Ion	Exp%	Act%
43.10	100	0.00
58.10	38.50	0.00#
57.10	23.90	0.00
41.10	22.40	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(69) Ethyl methacrylate

10.692min (+0.000) 2.65ug/Kg m

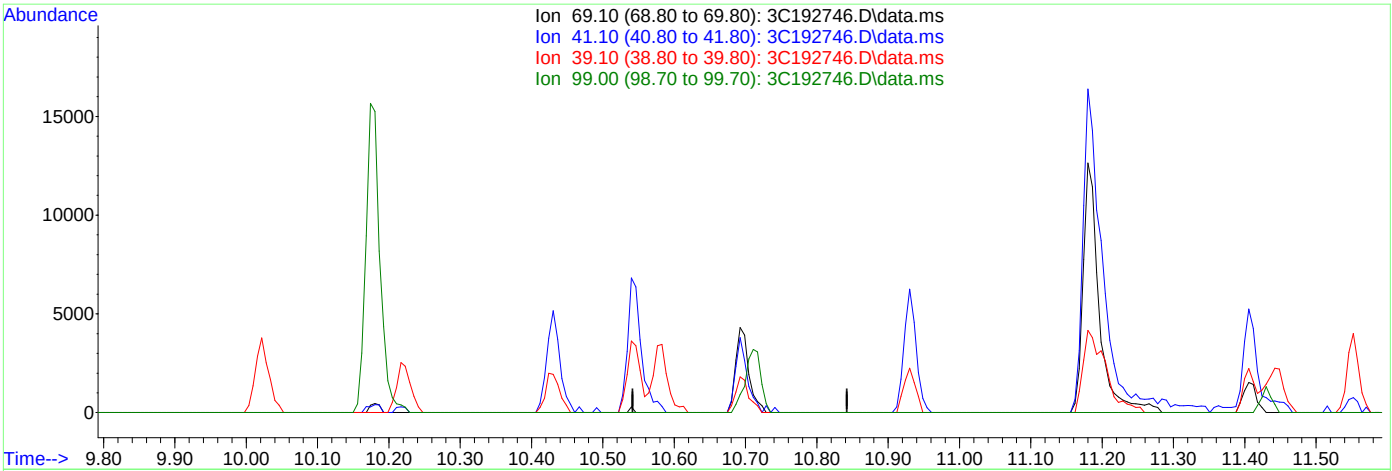
response 5552

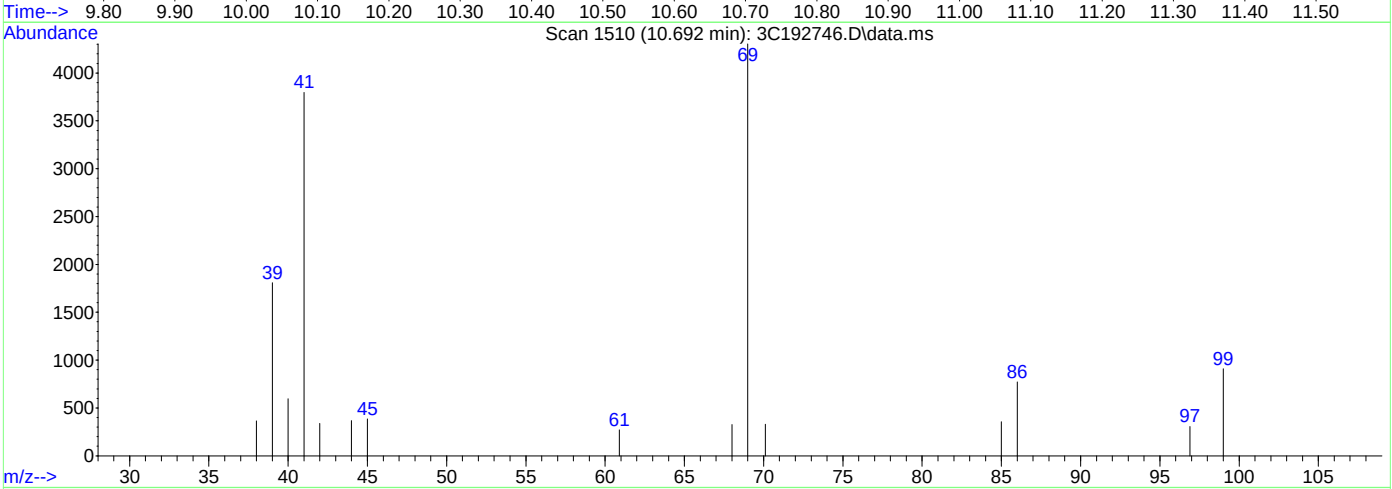
Ion	Exp%	Act%
69.10	100	100
41.10	78.60	88.22
39.10	37.50	42.00
99.00	23.70	21.14

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(69) Ethyl methacrylate

10.692min (-10.692) 0.00ug/Kg

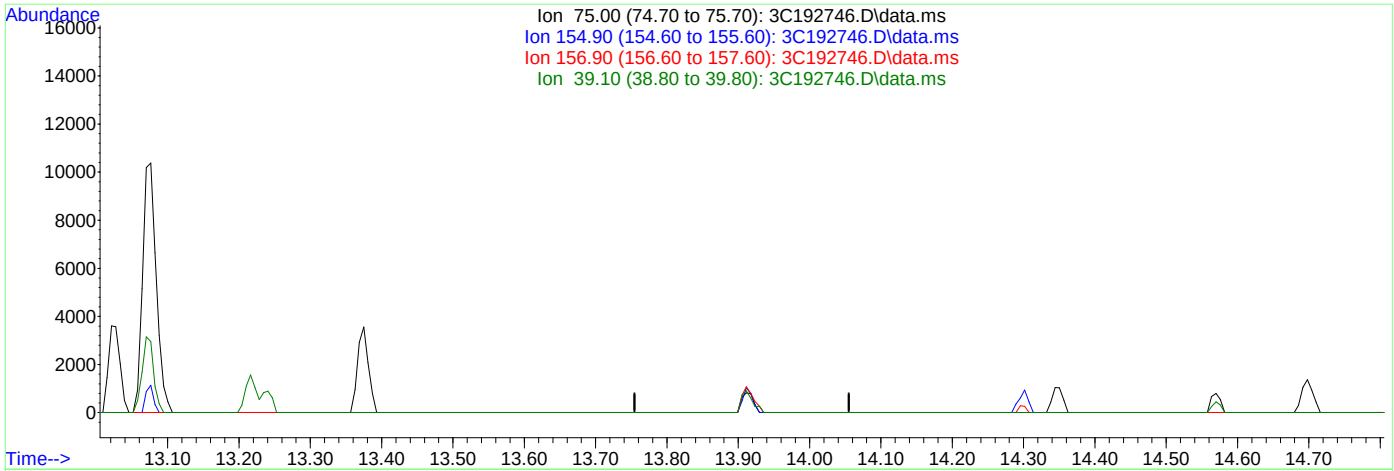
response 0

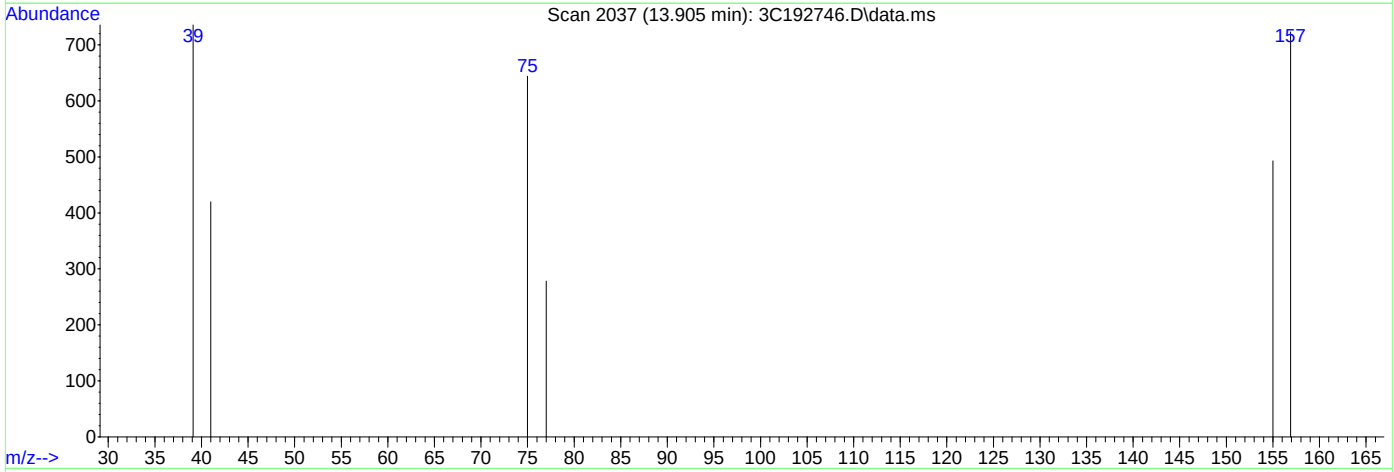
Ion	Exp%	Act%
69.10	100	0.00
41.10	78.60	0.00#
39.10	37.50	0.00#
99.00	23.70	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

13.905min (-13.905) 0.00ug/Kg

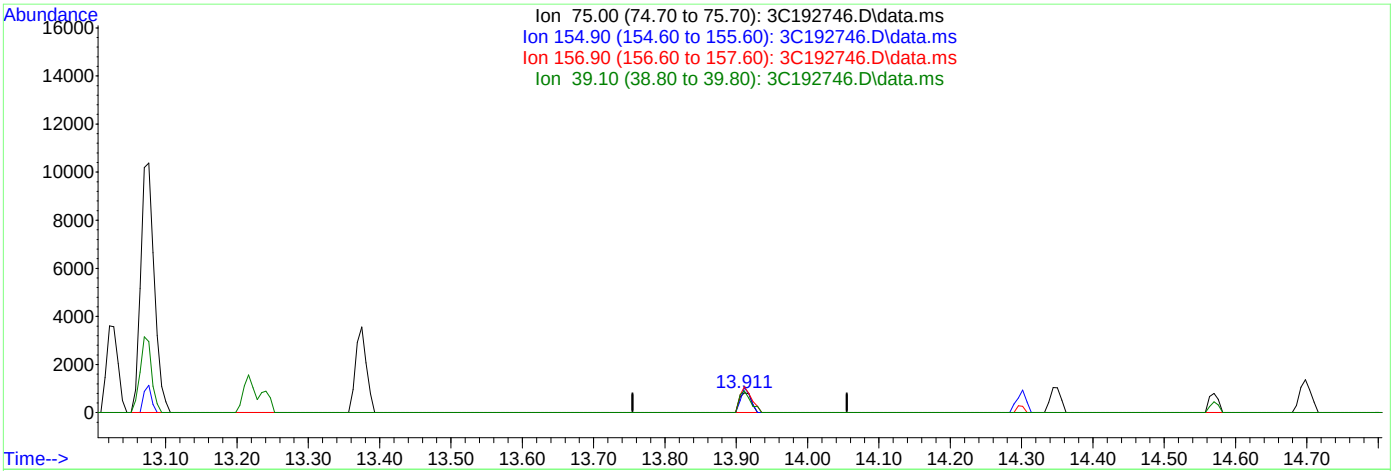
response 0

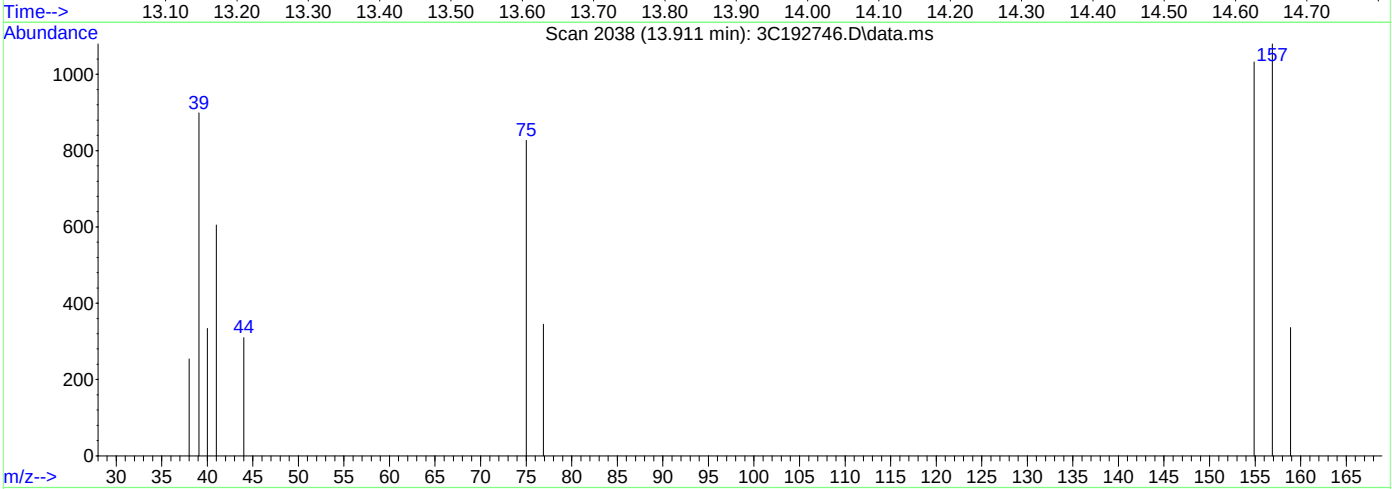
Ion	Exp%	Act%
75.00	100	0.00
154.90	89.50	0.00#
156.90	113.80	0.00#
39.10	85.60	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192746.D
Acq On : 27 Jun 2024 2:32 pm
Operator : davidb2
Sample : IC1220-1 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jun 28 09:22:42 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration





TIC: 3C192746.D\data.ms

(108) 1,2-Dibromo-3-Chloropropane

13.911min (+0.006) 2.65ug/Kg m

response 936

Ion	Exp%	Act%
75.00	100	100
154.90	89.50	124.91#
156.90	113.80	130.59
39.10	85.60	108.71

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192747.D
Acq On : 27 Jun 2024 2:56 pm
Operator : davidb2
Sample : IC1220-2 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 09:23:47 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	244738	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	187406	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	91458	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	61143	48.37	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 96.74%			
49) 1,2-Dichloroethane-d4	8.296	65	69773	50.13	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 100.26%			
63) Toluene-d8	10.174	98	234597	49.27	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.54%			
86) 4-Bromofluorobenzene	12.308	174	73968	52.03	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 104.06%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.237	85	11437	7.89	ug/Kg	92
3) Chloromethane	2.487	50	21298	8.69	ug/Kg	89
4) 1,3-Butadiene	2.627	54	16546	8.07	ug/Kg	96
5) Vinyl Chloride	2.602	62	15033	8.40	ug/Kg	96
6) Bromomethane	3.047	94	6697	7.28	ug/Kg	99
7) Chloroethane	3.206	64	3525	9.20	ug/Kg	89
8) Trichlorofluoromethane	3.389	101	21084	9.08	ug/Kg	96
9) Ethyl Ether	3.834	59	13655	8.93	ug/Kg	92
10) Ethanol	4.078	45	5458	159.41	ug/Kg	88
11) 1,2-Dichlorotrifluoroe...	4.096	67	18868	14.23	ug/Kg	95
12) 1,1-Dichloroethene	4.084	61	24874	10.18	ug/Kg	96
13) Freon 113	4.139	101	16418	9.84	ug/Kg	99
14) Carbon Disulfide	4.120	76	41497	9.26	ug/Kg	99
15) Iodomethane	4.279	142	12334	6.17	ug/Kg	99
16) Allyl chloride	4.742	41	25228	8.77	ug/Kg	95
17) Acrolein	4.565	56	15388	41.14	ug/Kg	100
18) Methylene Chloride	4.889	49	46220	14.10	ug/Kg	100
19) Acetone	4.980	43	31950	51.37	ug/Kg	98
20) Methyl acetate	5.151	43	75586	49.86	ug/Kg	98
21) trans-1,2-Dichloroethene	5.120	61	24614	9.91	ug/Kg	96
22) Hexane	5.224	56	17147	10.27	ug/Kg	92
23) Methyl Tert Butyl Ether	5.279	73	40234	9.23	ug/Kg	98
24) Tert butyl alcohol	5.449	59	23216	89.45	ug/Kg	98
25) Acetonitrile	5.644	41	26286	95.50	ug/Kg	97
26) Di-isopropyl ether	5.833	45	57646	9.25	ug/Kg	98
27) Chloroprene	5.980	53	22623	8.72	ug/Kg	93
28) 1,1-Dichloroethane	6.022	63	30688	9.67	ug/Kg	98
29) Acrylonitrile	6.114	53	33526	45.06	ug/Kg	96
30) ETBE	6.394	59	45750	8.91	ug/Kg	97
31) Vinyl acetate	6.419	43	181762	45.01	ug/Kg	98
32) cis-1,2-Dichloroethene	6.864	96	16646	9.33	ug/Kg	94
33) 2,2-Dichloropropane	7.028	77	19745	9.59	ug/Kg	97
34) Bromochloromethane	7.181	128	8501	9.51	ug/Kg	92
35) Cyclohexane	7.175	56	31083	9.58	ug/Kg	95
36) Chloroform	7.321	83	27805	9.89	ug/Kg	96
37) Ethyl acetate	7.522	43	94901	44.87	ug/Kg	99
38) Tetrahydrofuran	7.577	42	7294	9.59	ug/Kg	92
40) Carbon Tetrachloride	7.510	117	20726	9.52	ug/Kg	95
41) 1,1,1-Trichloroethane	7.620	97	23470	9.44	ug/Kg	96
42) 2-Butanone	7.790	43	48888	48.21	ug/Kg	98
43) 1,1-Dichloropropene	7.797	75	21530	10.05	ug/Kg	94
44) tert-Butyl Formate	7.955	59	43476	41.07	ug/Kg	91

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192747.D
Acq On : 27 Jun 2024 2:56 pm
Operator : davidb2
Sample : IC1220-2 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 09:23:47 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	27941	95.24	ug/Kg	94
46) Methacrylonitrile	8.193	41	117387	95.32	ug/Kg	99
47) Benzene	8.126	78	64507	9.91	ug/Kg	99
48) TAME	8.278	73	36239	8.70	ug/Kg	92
50) 1,2-Dichloroethane	8.388	62	21989	9.46	ug/Kg	96
51) Isobutyl alcohol	8.443	42	10225	151.22	ug/Kg	86
52) Tert Amyl Alcohol	8.540	59	14568	81.83	ug/Kg	93
53) Trichloroethene	8.821	95	17266	9.74	ug/Kg	92
54) Methylcyclohexane	8.796	83	28231	9.74	ug/Kg	93
55) Dibromomethane	9.266	93	9249	9.46	ug/Kg	93
56) 1,2-Dichloropropane	9.363	63	16314	9.11	ug/Kg	96
57) Bromodichloromethane	9.430	83	17998	8.96	ug/Kg	98
58) Methyl methacrylate	9.583	41	12530	7.31	ug/Kg	93
59) 1,4-Dioxane	9.638	88	4130	171.28	ug/Kg	82
61) cis-1,3-Dichloropropene	10.022	75	21421	8.35	ug/Kg	98
64) Toluene	10.223	91	69223	9.74	ug/Kg	95
65) 2-Nitropropane	10.430	41	17974	36.97	ug/Kg	97
66) 4-Methyl-2-pentanone	10.540	43	97182	47.45	ug/Kg	98
67) trans-1,3-Dichloropropene	10.576	75	20610	8.27	ug/Kg	96
68) Tetrachloroethene	10.552	166	22155	8.45	ug/Kg	97
69) Ethyl methacrylate	10.692	69	15626	7.46	ug/Kg	98
70) 1,1,2-Trichloroethane	10.711	83	12028	9.51	ug/Kg	95
71) Dibromochloromethane	10.857	129	14288	7.82	ug/Kg	98
72) 1,3-Dichloropropane	10.930	76	22790	9.25	ug/Kg	95
73) 1,2-Dibromoethane	11.052	107	14365	8.90	ug/Kg	97
74) 3,3-dimethyl-1-butanol	11.180	57	102841	375.39	ug/Kg	99
75) 2-hexanone	11.198	43	89426	47.62	ug/Kg	96
76) 1-Chlorohexane	11.406	91	22182	9.28	ug/Kg	96
77) Ethylbenzene	11.448	91	78851	9.94	ug/Kg	98
78) Chlorobenzene	11.442	112	47145	9.72	ug/Kg	98
79) 1,1,1,2-Tetrachloroethane	11.485	131	16026	9.11	ug/Kg	96
80) m,p-Xylene	11.552	91	119489	19.50	ug/Kg	97
81) o-Xylene	11.869	91	56883	9.31	ug/Kg	99
82) Styrene	11.905	104	42946	8.44	ug/Kg	98
83) Bromoform	11.948	173	8363	7.65	ug/Kg	94
84) Isopropylbenzene	12.082	105	74028	9.49	ug/Kg	99
87) cis-1,4-Dichloro-2-butene	12.338	53	6601	9.34	ug/Kg#	73
88) n-Propylbenzene	12.375	91	88816	10.49	ug/Kg	95
89) Bromobenzene	12.387	156	19817	9.82	ug/Kg	92
90) 1,1,2,2-Tetrachloroethane	12.430	83	18863	9.84	ug/Kg	98
91) 1,3,5-Trimethylbenzene	12.497	105	58921	9.85	ug/Kg	100
92) 2-Chlorotoluene	12.503	91	58241	10.49	ug/Kg	95
93) trans-1,4-Dichloro-2-B...	12.552	53	5564	8.25	ug/Kg	88
94) 1,2,3-Trichloropropane	12.540	110	5806	10.10	ug/Kg	87
95) Cyclohexanone	12.588	55	5814	46.64	ug/Kg	90
96) 4-Chlorotoluene	12.613	91	52339	10.10	ug/Kg	97
97) tert-Butylbenzene	12.722	91	33997	10.15	ug/Kg	99
98) 1,2,4-Trimethylbenzene	12.771	105	59561	10.03	ug/Kg	93
99) Pentachloroethane	12.765	167	8510	10.09	ug/Kg	90
100) sec-Butylbenzene	12.844	105	79566	10.00	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	67795	10.05	ug/Kg	98
102) 1,3-Dichlorobenzene	13.027	146	37119	9.98	ug/Kg	97
103) 1,2,3-Trimethylbenzene	13.070	105	60849	9.87	ug/Kg	95
104) 1,4-Dichlorobenzene	13.082	146	37543	9.87	ug/Kg	97
105) n-Butylbenzene	13.216	92	32964	9.73	ug/Kg	98
106) Benzyl Chloride	13.241	126	5315	6.95	ug/Kg#	86
107) 1,2-Dichlorobenzene	13.375	146	33777	9.57	ug/Kg	98
108) 1,2-Dibromo-3-Chloropr...	13.911	75	2804	8.11	ug/Kg	92

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192747.D
Acq On : 27 Jun 2024 2:56 pm
Operator : davidb2
Sample : IC1220-2 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 09:23:47 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

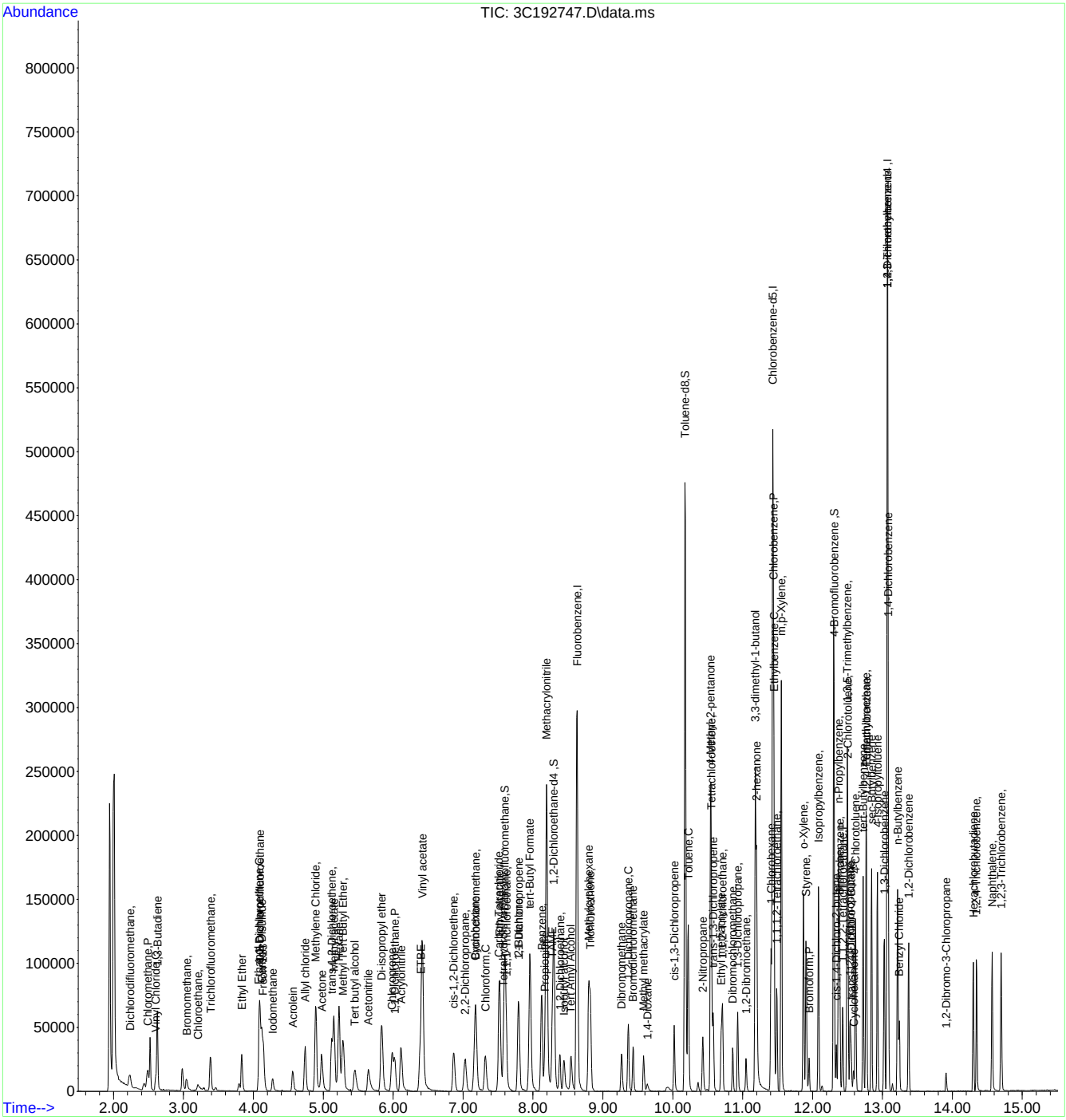
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	14.301	225	13843	9.83	ug/Kg	95
110) 1,2,4-Trichlorobenzene	14.344	180	24561	9.08	ug/Kg	97
111) Naphthalene	14.570	128	59143	8.10	ug/Kg	97
112) 1,2,3-Trichlorobenzene	14.698	180	25135	9.35	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192747.D
Acq On : 27 Jun 2024 2:56 pm
Operator : davidb2
Sample : IC1220-2 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Jun 28 09:23:47 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192748.D
Acq On : 27 Jun 2024 3:20 pm
Operator : davidb2
Sample : IC1220-3 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 09:23:59 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	244997	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	187065	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	93482	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	62116	49.09	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 98.18%			
49) 1,2-Dichloroethane-d4	8.297	65	67701	48.59	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.18%			
63) Toluene-d8	10.174	98	233882	49.20	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.40%			
86) 4-Bromofluorobenzene	12.302	174	72770	50.08	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.16%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.225	85	23345	16.09	ug/Kg	98
3) Chloromethane	2.487	50	43338	17.67	ug/Kg	96
4) 1,3-Butadiene	2.627	54	35326	17.21	ug/Kg	97
5) Vinyl Chloride	2.603	62	31199	17.42	ug/Kg	99
6) Bromomethane	3.041	94	12501	13.58	ug/Kg	93
7) Chloroethane	3.206	64	7334	19.11	ug/Kg	91
8) Trichlorofluoromethane	3.389	101	43199	18.59	ug/Kg	95
9) Ethyl Ether	3.834	59	29959	19.57	ug/Kg	95
10) Ethanol	4.078	45	12054	348.88	ug/Kg	95
11) 1,2-Dichlorotrifluoroe...	4.096	67	39291	29.61	ug/Kg	96
12) 1,1-Dichloroethene	4.084	61	50843	20.79	ug/Kg	98
13) Freon 113	4.139	101	33056	19.80	ug/Kg	99
14) Carbon Disulfide	4.114	76	89465	19.95	ug/Kg	98
15) Iodomethane	4.279	142	33603	16.80	ug/Kg	98
16) Allyl chloride	4.742	41	54718	19.00	ug/Kg	97
17) Acrolein	4.559	56	34339	91.71	ug/Kg	100
18) Methylene Chloride	4.889	49	73126	22.43	ug/Kg	99
19) Acetone	4.974	43	63423	101.86	ug/Kg	97
20) Methyl acetate	5.151	43	152751	100.66	ug/Kg	98
21) trans-1,2-Dichloroethene	5.120	61	50567	20.35	ug/Kg	97
22) Hexane	5.224	56	36553	21.87	ug/Kg	91
23) Methyl Tert Butyl Ether	5.285	73	84373	19.34	ug/Kg	96
24) Tert butyl alcohol	5.450	59	49737	189.26	ug/Kg	98
25) Acetonitrile	5.645	41	51378	186.47	ug/Kg	96
26) Di-isopropyl ether	5.834	45	122662	19.66	ug/Kg	99
27) Chloroprene	5.986	53	48607	18.71	ug/Kg	97
28) 1,1-Dichloroethane	6.016	63	64499	20.31	ug/Kg	96
29) Acrylonitrile	6.108	53	70889	95.17	ug/Kg	99
30) ETBE	6.388	59	98347	19.14	ug/Kg	98
31) Vinyl acetate	6.419	43	393369	97.31	ug/Kg	99
32) cis-1,2-Dichloroethene	6.864	96	35279	19.76	ug/Kg	96
33) 2,2-Dichloropropane	7.028	77	41619	20.19	ug/Kg	98
34) Bromochloromethane	7.181	128	17767	19.85	ug/Kg	91
35) Cyclohexane	7.175	56	66089	20.35	ug/Kg	98
36) Chloroform	7.321	83	55990	19.90	ug/Kg	98
37) Ethyl acetate	7.516	43	199061	94.01	ug/Kg	99
38) Tetrahydrofuran	7.577	42	14524	19.07	ug/Kg	98
40) Carbon Tetrachloride	7.510	117	42646	19.56	ug/Kg	98
41) 1,1,1-Trichloroethane	7.614	97	49515	19.89	ug/Kg	96
42) 2-Butanone	7.784	43	103021	101.49	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	44295	20.65	ug/Kg	98
44) tert-Butyl Formate	7.955	59	95791	89.27	ug/Kg	96

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192748.D
Acq On : 27 Jun 2024 3:20 pm
Operator : davidb2
Sample : IC1220-3 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 09:23:59 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	57603	196.14	ug/Kg	97
46) Methacrylonitrile	8.193	41	237115	192.34	ug/Kg	98
47) Benzene	8.126	78	131770	20.23	ug/Kg	99
48) TAME	8.278	73	78935	18.92	ug/Kg	99
50) 1,2-Dichloroethane	8.382	62	46332	19.92	ug/Kg	97
51) Isobutyl alcohol	8.443	42	22597	330.48	ug/Kg	92
52) Tert Amyl Alcohol	8.540	59	31951	176.62	ug/Kg	97
53) Trichloroethene	8.821	95	35030	19.73	ug/Kg	97
54) Methylcyclohexane	8.803	83	58517	20.17	ug/Kg	95
55) Dibromomethane	9.266	93	19392	19.82	ug/Kg	97
56) 1,2-Dichloropropane	9.363	63	34478	19.20	ug/Kg	97
57) Bromodichloromethane	9.430	83	38447	19.12	ug/Kg	98
58) Methyl methacrylate	9.583	41	28645	16.60	ug/Kg	96
59) 1,4-Dioxane	9.638	88	9490	389.16	ug/Kg	86
61) cis-1,3-Dichloropropene	10.022	75	46644	18.09	ug/Kg	95
64) Toluene	10.223	91	142177	20.04	ug/Kg	100
65) 2-Nitropropane	10.430	41	41251	84.42	ug/Kg	96
66) 4-Methyl-2-pentanone	10.540	43	203775	99.67	ug/Kg	99
67) trans-1,3-Dichloropropene	10.577	75	44015	17.63	ug/Kg	97
68) Tetrachloroethene	10.552	166	45898	17.53	ug/Kg	95
69) Ethyl methacrylate	10.692	69	33827	16.09	ug/Kg	97
70) 1,1,2-Trichloroethane	10.711	83	24614	19.49	ug/Kg	96
71) Dibromochloromethane	10.857	129	32499	17.70	ug/Kg	99
72) 1,3-Dichloropropane	10.930	76	47565	19.34	ug/Kg	99
73) 1,2-Dibromoethane	11.046	107	31621	19.63	ug/Kg	99
74) 3,3-dimethyl-1-butanol	11.180	57	233923	857.36	ug/Kg	99
75) 2-hexanone	11.198	43	190355	101.54	ug/Kg	97
76) 1-Chlorohexane	11.406	91	47496	19.92	ug/Kg	97
77) Ethylbenzene	11.448	91	159871	20.20	ug/Kg	98
78) Chlorobenzene	11.442	112	97128	20.07	ug/Kg	100
79) 1,1,1,2-Tetrachloroethane	11.485	131	33966	19.35	ug/Kg	98
80) m,p-Xylene	11.552	91	248989	40.72	ug/Kg	98
81) o-Xylene	11.869	91	123099	20.18	ug/Kg	99
82) Styrene	11.906	104	91703	17.98	ug/Kg	97
83) Bromoform	11.948	173	18536	16.70	ug/Kg	98
84) Isopropylbenzene	12.082	105	157240	20.20	ug/Kg	100
87) cis-1,4-Dichloro-2-butene	12.338	53	14032	19.43	ug/Kg	89
88) n-Propylbenzene	12.375	91	179096	20.70	ug/Kg	96
89) Bromobenzene	12.387	156	41888	20.31	ug/Kg	98
90) 1,1,2,2-Tetrachloroethane	12.430	83	38297	19.54	ug/Kg	97
91) 1,3,5-Trimethylbenzene	12.497	105	125651	20.55	ug/Kg	99
92) 2-Chlorotoluene	12.503	91	118606	20.89	ug/Kg	97
93) trans-1,4-Dichloro-2-B...	12.552	53	12504	18.12	ug/Kg	91
94) 1,2,3-Trichloropropane	12.540	110	11154	18.98	ug/Kg	92
95) Cyclohexanone	12.582	55	12285	96.11	ug/Kg	95
96) 4-Chlorotoluene	12.613	91	110562	20.87	ug/Kg	97
97) tert-Butylbenzene	12.722	91	70249	20.53	ug/Kg	97
98) 1,2,4-Trimethylbenzene	12.765	105	125885	20.74	ug/Kg	99
99) Pentachloroethane	12.765	167	17761	20.61	ug/Kg	93
100) sec-Butylbenzene	12.844	105	166364	20.45	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	140532	20.39	ug/Kg	99
102) 1,3-Dichlorobenzene	13.027	146	76130	20.02	ug/Kg	95
103) 1,2,3-Trimethylbenzene	13.070	105	128812	20.43	ug/Kg	97
104) 1,4-Dichlorobenzene	13.082	146	77792	20.01	ug/Kg	98
105) n-Butylbenzene	13.216	92	70311	20.30	ug/Kg	97
106) Benzyl Chloride	13.241	126	13015	16.44	ug/Kg	99
107) 1,2-Dichlorobenzene	13.375	146	70588	19.57	ug/Kg	96
108) 1,2-Dibromo-3-Chloropr...	13.911	75	5992	16.79	ug/Kg	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192748.D
Acq On : 27 Jun 2024 3:20 pm
Operator : davidb2
Sample : IC1220-3 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 09:23:59 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

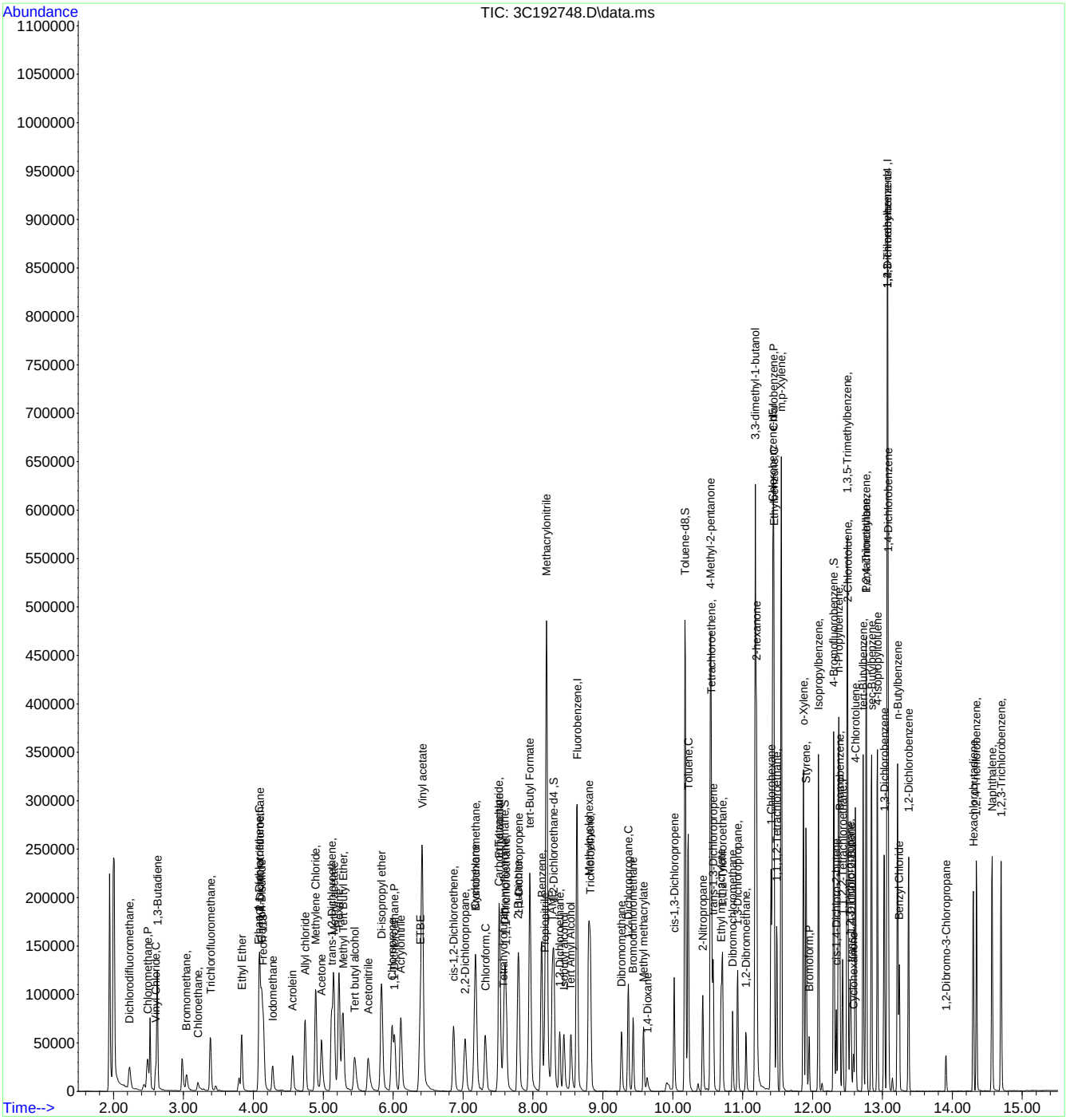
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	14.301	225	28300	19.66	ug/Kg	97
110) 1,2,4-Trichlorobenzene	14.344	180	52471	18.99	ug/Kg	98
111) Naphthalene	14.570	128	131231	17.54	ug/Kg	100
112) 1,2,3-Trichlorobenzene	14.698	180	53869	19.60	ug/Kg	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192748.D
Acq On : 27 Jun 2024 3:20 pm
Operator : davidb2
Sample : IC1220-3 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 28 09:23:59 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192749.D
Acq On : 27 Jun 2024 3:45 pm
Operator : davidb2
Sample : IC1220-4 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 09:24:18 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	251744	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	191493	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	97256	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	65028	50.01	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.02%			
49) 1,2-Dichloroethane-d4	8.303	65	70037	48.92	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.84%			
63) Toluene-d8	10.174	98	239861	49.30	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 98.60%			
86) 4-Bromofluorobenzene	12.302	174	75653	50.05	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	33391	22.39	ug/Kg	99
3) Chloromethane	2.487	50	63941	25.37	ug/Kg	97
4) 1,3-Butadiene	2.627	54	53705	25.47	ug/Kg	99
5) Vinyl Chloride	2.603	62	48523	26.36	ug/Kg	100
6) Bromomethane	3.041	94	19007	20.09	ug/Kg	94
7) Chloroethane	3.206	64	11293	28.64	ug/Kg	90
8) Trichlorofluoromethane	3.389	101	66511	27.86	ug/Kg	95
9) Ethyl Ether	3.834	59	46465	29.54	ug/Kg	98
10) Ethanol	4.072	45	19201	536.59	ug/Kg	100
11) 1,2-Dichlorotrifluoroe...	4.096	67	58633	43.00	ug/Kg	98
12) 1,1-Dichloroethene	4.084	61	77228	30.74	ug/Kg	97
13) Freon 113	4.145	101	51504	30.02	ug/Kg	98
14) Carbon Disulfide	4.114	76	139346	30.23	ug/Kg	98
15) Iodomethane	4.279	142	54754	26.65	ug/Kg	98
16) Allyl chloride	4.742	41	84743	28.63	ug/Kg	97
17) Acrolein	4.559	56	53132	138.10	ug/Kg	100
18) Methylene Chloride	4.889	49	100254	30.11	ug/Kg	100
19) Acetone	4.974	43	96552	150.91	ug/Kg	99
20) Methyl acetate	5.145	43	238010	152.65	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	77845	30.48	ug/Kg	98
22) Hexane	5.224	56	54979	32.02	ug/Kg	99
23) Methyl Tert Butyl Ether	5.279	73	130227	29.06	ug/Kg	99
24) Tert butyl alcohol	5.443	59	80665	295.17	ug/Kg	95
25) Acetonitrile	5.638	41	77993	275.47	ug/Kg	94
26) Di-isopropyl ether	5.834	45	191087	29.81	ug/Kg	97
27) Chloroprene	5.986	53	75254	28.18	ug/Kg	99
28) 1,1-Dichloroethane	6.023	63	97920	30.00	ug/Kg	96
29) Acrylonitrile	6.108	53	111925	146.23	ug/Kg	98
30) ETBE	6.388	59	154535	29.27	ug/Kg	98
31) Vinyl acetate	6.413	43	589685	141.97	ug/Kg	99
32) cis-1,2-Dichloroethene	6.864	96	55046	30.00	ug/Kg	98
33) 2,2-Dichloropropane	7.028	77	63516	29.99	ug/Kg	98
34) Bromochloromethane	7.187	128	27567	29.97	ug/Kg	96
35) Cyclohexane	7.175	56	100591	30.15	ug/Kg	96
36) Chloroform	7.321	83	85950	29.73	ug/Kg	96
37) Ethyl acetate	7.516	43	309632	142.31	ug/Kg	99
38) Tetrahydrofuran	7.571	42	23326	29.81	ug/Kg	93
40) Carbon Tetrachloride	7.510	117	68059	30.38	ug/Kg	99
41) 1,1,1-Trichloroethane	7.614	97	77358	30.25	ug/Kg	97
42) 2-Butanone	7.784	43	154867	148.48	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	67765	30.74	ug/Kg	96
44) tert-Butyl Formate	7.955	59	152578	136.69	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192749.D
Acq On : 27 Jun 2024 3:45 pm
Operator : davidb2
Sample : IC1220-4 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 09:24:18 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	87088	288.58	ug/Kg	98
46) Methacrylonitrile	8.193	41	369189	291.45	ug/Kg	98
47) Benzene	8.120	78	203193	30.36	ug/Kg	99
48) TAME	8.278	73	124485	29.05	ug/Kg	98
50) 1,2-Dichloroethane	8.382	62	70997	29.71	ug/Kg	99
51) Isobutyl alcohol	8.437	42	37424	526.85	ug/Kg	96
52) Tert Amyl Alcohol	8.540	59	51965	275.29	ug/Kg	96
53) Trichloroethene	8.821	95	53875	29.53	ug/Kg	98
54) Methylcyclohexane	8.796	83	90075	30.21	ug/Kg	93
55) Dibromomethane	9.266	93	30988	30.83	ug/Kg	98
56) 1,2-Dichloropropane	9.363	63	52747	28.54	ug/Kg	98
57) Bromodichloromethane	9.430	83	60051	29.07	ug/Kg	99
58) Methyl methacrylate	9.583	41	47115	26.41	ug/Kg	98
59) 1,4-Dioxane	9.632	88	14747	583.25	ug/Kg	90
61) cis-1,3-Dichloropropene	10.022	75	75492	28.37	ug/Kg	100
64) Toluene	10.223	91	216225	29.77	ug/Kg	99
65) 2-Nitropropane	10.430	41	67885	134.73	ug/Kg	98
66) 4-Methyl-2-pentanone	10.540	43	316292	151.12	ug/Kg	100
67) trans-1,3-Dichloropropene	10.577	75	71307	27.79	ug/Kg	98
68) Tetrachloroethene	10.552	166	74810	27.91	ug/Kg	98
69) Ethyl methacrylate	10.692	69	56819	26.23	ug/Kg	99
70) 1,1,2-Trichloroethane	10.711	83	37412	28.94	ug/Kg	97
71) Dibromochloromethane	10.857	129	51735	27.33	ug/Kg	94
72) 1,3-Dichloropropane	10.930	76	75244	29.88	ug/Kg	100
73) 1,2-Dibromoethane	11.046	107	48288	29.29	ug/Kg	97
74) 3,3-dimethyl-1-butanol	11.180	57	378575	1358.64	ug/Kg	98
75) 2-hexanone	11.198	43	296659	154.59	ug/Kg	99
76) 1-Chlorohexane	11.406	91	72219	29.58	ug/Kg	99
77) Ethylbenzene	11.448	91	241671	29.83	ug/Kg	99
78) Chlorobenzene	11.442	112	147673	29.81	ug/Kg	98
79) 1,1,1,2-Tetrachloroethane	11.485	131	53142	29.58	ug/Kg	99
80) m,p-Xylene	11.552	91	372848	59.56	ug/Kg	100
81) o-Xylene	11.869	91	188373	30.17	ug/Kg	99
82) Styrene	11.906	104	145980	27.83	ug/Kg	99
83) Bromoform	11.948	173	32305	27.86	ug/Kg	98
84) Isopropylbenzene	12.082	105	237792	29.85	ug/Kg	100
87) cis-1,4-Dichloro-2-butene	12.338	53	21936	29.20	ug/Kg	95
88) n-Propylbenzene	12.369	91	276730	30.75	ug/Kg	99
89) Bromobenzene	12.387	156	63839	29.76	ug/Kg	98
90) 1,1,2,2-Tetrachloroethane	12.430	83	59111	29.00	ug/Kg	99
91) 1,3,5-Trimethylbenzene	12.497	105	194314	30.54	ug/Kg	100
92) 2-Chlorotoluene	12.503	91	179577	30.41	ug/Kg	99
93) trans-1,4-Dichloro-2-B...	12.552	53	20827	28.97	ug/Kg	94
94) 1,2,3-Trichloropropane	12.534	110	18020	29.47	ug/Kg	94
95) Cyclohexanone	12.582	55	19489	146.07	ug/Kg	97
96) 4-Chlorotoluene	12.613	91	165784	30.08	ug/Kg	99
97) tert-Butylbenzene	12.722	91	107230	30.12	ug/Kg	99
98) 1,2,4-Trimethylbenzene	12.765	105	191744	30.37	ug/Kg	99
99) Pentachloroethane	12.765	167	25637	28.60	ug/Kg	93
100) sec-Butylbenzene	12.844	105	254455	30.07	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	218878	30.52	ug/Kg	99
102) 1,3-Dichlorobenzene	13.021	146	117814	29.78	ug/Kg	98
103) 1,2,3-Trimethylbenzene	13.070	105	201010	30.65	ug/Kg	99
104) 1,4-Dichlorobenzene	13.082	146	118304	29.25	ug/Kg	100
105) n-Butylbenzene	13.216	92	107679	29.88	ug/Kg	97
106) Benzyl Chloride	13.241	126	21637	25.94	ug/Kg	93
107) 1,2-Dichlorobenzene	13.375	146	110787	29.53	ug/Kg	97
108) 1,2-Dibromo-3-Chloropr...	13.905	75	10273	27.34	ug/Kg	90

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192749.D
Acq On : 27 Jun 2024 3:45 pm
Operator : davidb2
Sample : IC1220-4 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 09:24:18 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

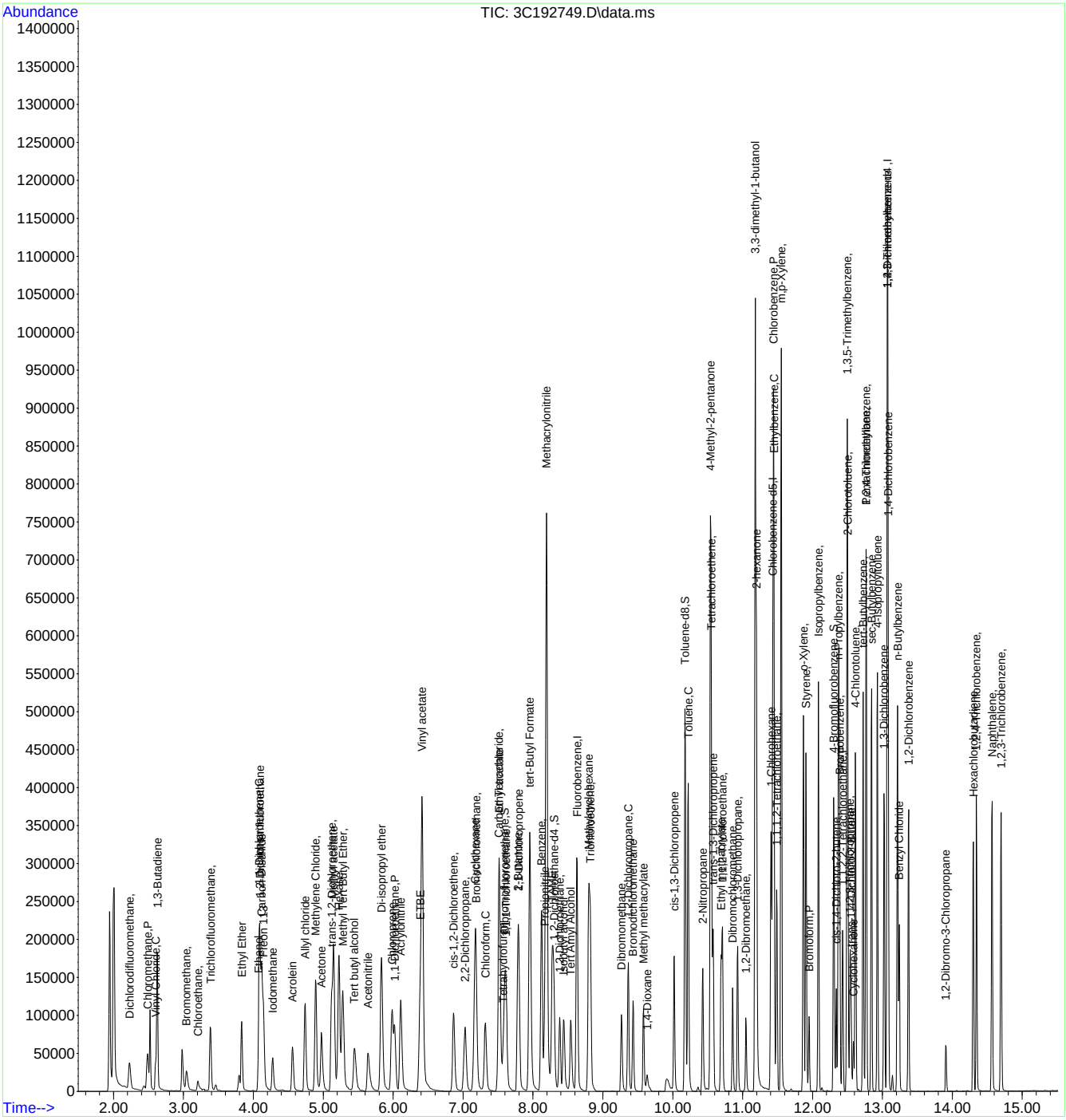
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
109) Hexachlorobutadiene	14.301	225	43577	29.10	ug/Kg	97
110) 1,2,4-Trichlorobenzene	14.344	180	83041	28.88	ug/Kg	96
111) Naphthalene	14.570	128	213203	27.30	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	84674	29.61	ug/Kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192749.D
Acq On : 27 Jun 2024 3:45 pm
Operator : davidb2
Sample : IC1220-4 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jun 28 09:24:18 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192750.D
Acq On : 27 Jun 2024 4:09 pm
Operator : davidb2
Sample : ICC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:24:32 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	249633	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	189705	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	97420	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	64842	50.29	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	100.58%		
49) 1,2-Dichloroethane-d4	8.297	65	70228	49.47	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery =	98.94%		
63) Toluene-d8	10.174	98	241966	50.20	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery =	100.40%		
86) 4-Bromofluorobenzene	12.302	174	75845	50.09	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery =	100.18%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	52289	35.36	ug/Kg	98
3) Chloromethane	2.493	50	100309	40.13	ug/Kg	98
4) 1,3-Butadiene	2.627	54	90258	43.17	ug/Kg	98
5) Vinyl Chloride	2.603	62	80109	43.90	ug/Kg	98
6) Bromomethane	3.048	94	31068	33.11	ug/Kg	99
7) Chloroethane	3.206	64	18845	48.20	ug/Kg	95
8) Trichlorofluoromethane	3.389	101	110904	46.85	ug/Kg	96
9) Ethyl Ether	3.834	59	79179	50.76	ug/Kg	98
10) Ethanol	4.072	45	34059	943.77	ug/Kg	99
11) 1,2-Dichlorotrifluoroe...	4.096	67	97705	72.26	ug/Kg	99
12) 1,1-Dichloroethene	4.084	61	130866	52.52	ug/Kg	100
13) Freon 113	4.145	101	86532	50.86	ug/Kg	97
14) Carbon Disulfide	4.114	76	236839	51.82	ug/Kg	98
15) Iodomethane	4.279	142	100142	49.15	ug/Kg	100
16) Allyl chloride	4.742	41	143409	48.86	ug/Kg	98
17) Acrolein	4.559	56	87792	230.12	ug/Kg	100
18) Methylene Chloride	4.889	49	156580	48.11	ug/Kg	99
19) Acetone	4.974	43	155830	245.61	ug/Kg	95
20) Methyl acetate	5.145	43	404249	261.45	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	132709	52.41	ug/Kg	98
22) Hexane	5.224	56	87162	51.19	ug/Kg	99
23) Methyl Tert Butyl Ether	5.279	73	228809	51.49	ug/Kg	97
24) Tert butyl alcohol	5.449	59	136540	492.90	ug/Kg	96
25) Acetonitrile	5.638	41	129478	461.18	ug/Kg	98
26) Di-isopropyl ether	5.834	45	329265	51.80	ug/Kg	98
27) Chloroprene	5.980	53	128893	48.68	ug/Kg	98
28) 1,1-Dichloroethane	6.023	63	166218	51.36	ug/Kg	100
29) Acrylonitrile	6.108	53	187631	247.22	ug/Kg	99
30) ETBE	6.388	59	270130	51.61	ug/Kg	99
31) Vinyl acetate	6.413	43	1015522	246.55	ug/Kg	100
32) cis-1,2-Dichloroethene	6.864	96	93519	51.40	ug/Kg	98
33) 2,2-Dichloropropane	7.028	77	108639	51.73	ug/Kg	99
34) Bromochloromethane	7.187	128	49042	53.76	ug/Kg	97
35) Cyclohexane	7.175	56	170998	51.68	ug/Kg	97
36) Chloroform	7.321	83	143731	50.14	ug/Kg	98
37) Ethyl acetate	7.516	43	523067	242.44	ug/Kg	99
38) Tetrahydrofuran	7.571	42	38288	49.35	ug/Kg	93
40) Carbon Tetrachloride	7.510	117	117229	52.76	ug/Kg	99
41) 1,1,1-Trichloroethane	7.614	97	129909	51.23	ug/Kg	99
42) 2-Butanone	7.784	43	261301	252.64	ug/Kg	98
43) 1,1-Dichloropropene	7.797	75	113685	52.01	ug/Kg	96
44) tert-Butyl Formate	7.955	59	282226	247.90	ug/Kg	93

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192750.D
Acq On : 27 Jun 2024 4:09 pm
Operator : davidb2
Sample : ICC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:24:32 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	Propionitrile	8.168	54	145176	485.14	ug/Kg	98
46)	Methacrylonitrile	8.193	41	615441	489.95	ug/Kg	98
47)	Benzene	8.126	78	338754	51.04	ug/Kg	99
48)	TAME	8.278	73	216446	50.93	ug/Kg	98
50)	1,2-Dichloroethane	8.382	62	121570	51.29	ug/Kg	99
51)	Isobutyl alcohol	8.437	42	64128	892.32	ug/Kg	97
52)	Tert Amyl Alcohol	8.540	59	90802	470.89	ug/Kg	96
53)	Trichloroethene	8.821	95	90397	49.97	ug/Kg	98
54)	Methylcyclohexane	8.796	83	151547	51.26	ug/Kg	95
55)	Dibromomethane	9.266	93	52374	52.55	ug/Kg	97
56)	1,2-Dichloropropane	9.363	63	90300	49.12	ug/Kg	97
57)	Bromodichloromethane	9.430	83	106759	52.12	ug/Kg	97
58)	Methyl methacrylate	9.577	41	83301	46.51	ug/Kg	96
59)	1,4-Dioxane	9.632	88	25198	986.62	ug/Kg	95
60)	2-Chloroethyl vinyl ether	9.900	63	209	62.95	ug/Kg#	1
61)	cis-1,3-Dichloropropene	10.016	75	133055	49.94	ug/Kg	97
64)	Toluene	10.223	91	363331	50.49	ug/Kg	99
65)	2-Nitropropane	10.430	41	119673	236.29	ug/Kg	100
66)	4-Methyl-2-pentanone	10.540	43	528632	254.96	ug/Kg	98
67)	trans-1,3-Dichloropropene	10.577	75	123537	48.21	ug/Kg	99
68)	Tetrachloroethene	10.552	166	125960	47.42	ug/Kg	98
69)	Ethyl methacrylate	10.692	69	103490	47.55	ug/Kg	97
70)	1,1,2-Trichloroethane	10.711	83	63497	49.58	ug/Kg	99
71)	Dibromochloromethane	10.857	129	90513	47.56	ug/Kg	97
72)	1,3-Dichloropropane	10.930	76	127905	51.28	ug/Kg	98
73)	1,2-Dibromoethane	11.046	107	84004	51.43	ug/Kg	100
74)	3,3-dimethyl-1-butanol	11.180	57	645855	2350.67	ug/Kg	99
75)	2-hexanone	11.198	43	489296	257.38	ug/Kg	99
76)	1-Chlorohexane	11.406	91	121349	50.18	ug/Kg	98
77)	Ethylbenzene	11.448	91	400679	49.92	ug/Kg	98
78)	Chlorobenzene	11.442	112	247077	50.35	ug/Kg	99
79)	1,1,1,2-Tetrachloroethane	11.485	131	90469	50.83	ug/Kg	99
80)	m,p-Xylene	11.552	91	620625	100.08	ug/Kg	100
81)	o-Xylene	11.869	91	321086	51.90	ug/Kg	98
82)	Styrene	11.906	104	251708	47.98	ug/Kg	100
83)	Bromoform	11.948	173	57313	48.13	ug/Kg	99
84)	Isopropylbenzene	12.082	105	400824	50.79	ug/Kg	99
87)	cis-1,4-Dichloro-2-butene	12.338	53	38499	51.15	ug/Kg	92
88)	n-Propylbenzene	12.369	91	460031	51.03	ug/Kg	99
89)	Bromobenzene	12.387	156	107219	49.89	ug/Kg	99
90)	1,1,2,2-Tetrachloroethane	12.430	83	101675	49.79	ug/Kg	97
91)	1,3,5-Trimethylbenzene	12.497	105	326922	51.30	ug/Kg	99
92)	2-Chlorotoluene	12.503	91	297891	50.35	ug/Kg	99
93)	trans-1,4-Dichloro-2-B...	12.552	53	33925	46.99	ug/Kg	93
94)	1,2,3-Trichloropropane	12.533	110	30877	50.42	ug/Kg	99
95)	Cyclohexanone	12.582	55	34640	257.28	ug/Kg	96
96)	4-Chlorotoluene	12.613	91	277515	50.26	ug/Kg	98
97)	tert-Butylbenzene	12.722	91	180511	50.61	ug/Kg	99
98)	1,2,4-Trimethylbenzene	12.765	105	324245	51.27	ug/Kg	100
99)	Pentachloroethane	12.765	167	44627	49.70	ug/Kg	96
100)	sec-Butylbenzene	12.844	105	426191	50.28	ug/Kg	100
101)	4-Isopropyltoluene	12.930	119	367959	51.22	ug/Kg	99
102)	1,3-Dichlorobenzene	13.021	146	197345	49.80	ug/Kg	99
103)	1,2,3-Trimethylbenzene	13.070	105	341383	51.96	ug/Kg	99
104)	1,4-Dichlorobenzene	13.082	146	198641	49.04	ug/Kg	100
105)	n-Butylbenzene	13.216	92	183483	50.83	ug/Kg	98
106)	Benzyl Chloride	13.241	126	41043	47.74	ug/Kg	98
107)	1,2-Dichlorobenzene	13.375	146	186815	49.71	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192750.D
Acq On : 27 Jun 2024 4:09 pm
Operator : davidb2
Sample : ICC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:24:32 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	18473	47.96	ug/Kg	97
109) Hexachlorobutadiene	14.301	225	76375	50.91	ug/Kg	98
110) 1,2,4-Trichlorobenzene	14.344	180	145059	50.36	ug/Kg	99
111) Naphthalene	14.570	128	377573	47.97	ug/Kg	100
112) 1,2,3-Trichlorobenzene	14.698	180	144076	50.29	ug/Kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

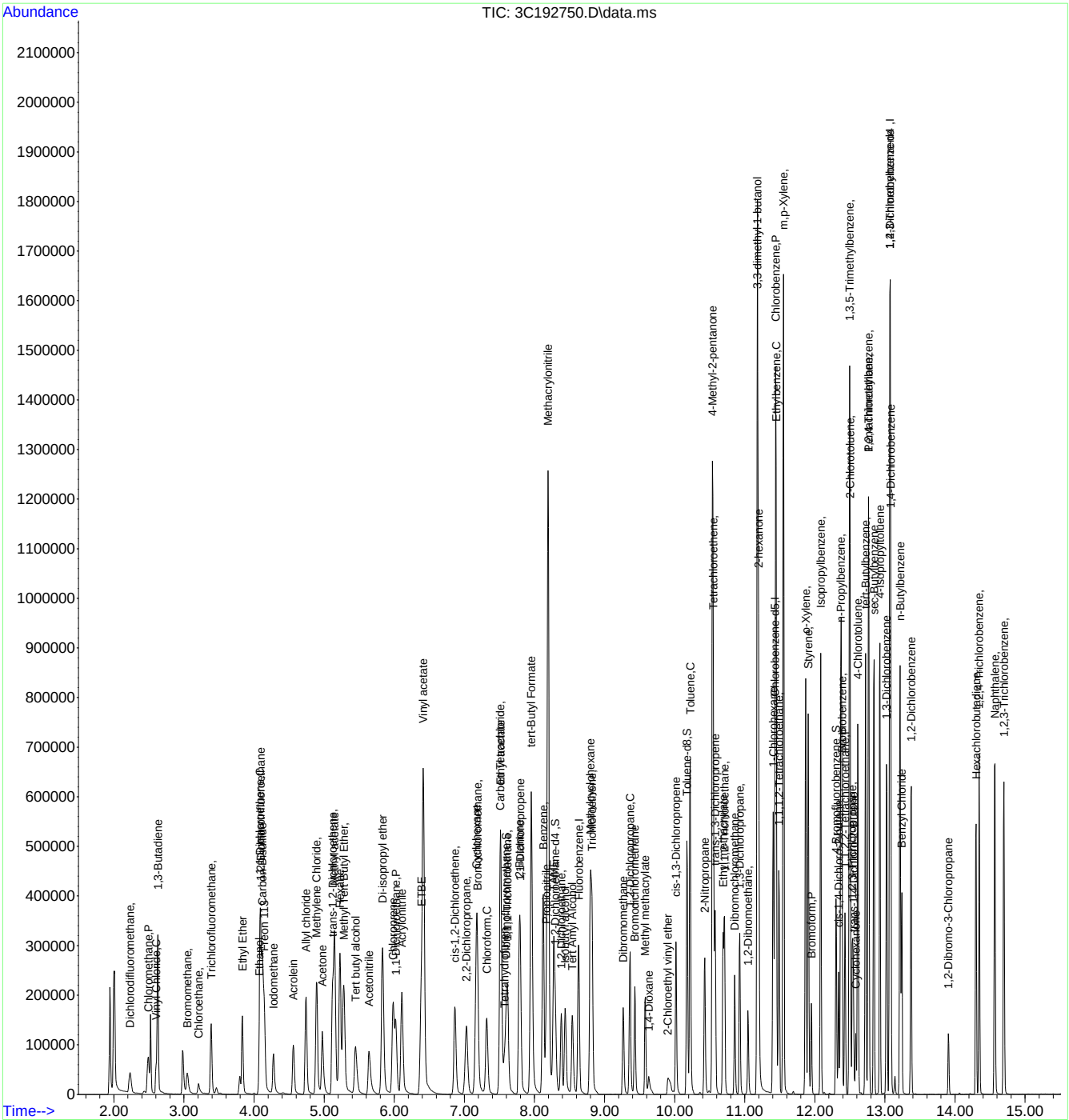
7.6.5

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192750.D
Acq On : 27 Jun 2024 4:09 pm
Operator : davidb2
Sample : ICC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 28 09:24:32 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192751.D
Acq On : 27 Jun 2024 4:33 pm
Operator : davidb2
Sample : IC1220-6 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	249598	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	186589	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	100372	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	65416	50.74	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.48%			
49) 1,2-Dichloroethane-d4	8.303	65	69366	48.87	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 97.74%			
63) Toluene-d8	10.174	98	242641	51.18	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 102.36%			
86) 4-Bromofluorobenzene	12.302	174	75249	48.23	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 96.46%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	98320	66.50	ug/Kg	99
3) Chloromethane	2.493	50	188733	75.52	ug/Kg	97
4) 1,3-Butadiene	2.627	54	169657	81.18	ug/Kg	99
5) Vinyl Chloride	2.609	62	153206	83.96	ug/Kg	98
6) Bromomethane	3.054	94	65306	69.62	ug/Kg	99
7) Chloroethane	3.206	64	35177	89.99	ug/Kg	98
8) Trichlorofluoromethane	3.389	101	209826	88.65	ug/Kg	94
9) Ethyl Ether	3.834	59	153834	98.64	ug/Kg	99
10) Ethanol	4.072	45	69495	1856.26	ug/Kg	96
11) 1,2-Dichlorotrifluoroe...	4.096	67	189373	140.08	ug/Kg	98
12) 1,1-Dichloroethene	4.084	61	252255	101.26	ug/Kg	99
13) Freon 113	4.139	101	167873	98.69	ug/Kg	99
14) Carbon Disulfide	4.114	76	474952	103.94	ug/Kg	100
15) Iodomethane	4.279	142	203118	99.70	ug/Kg	99
16) Allyl chloride	4.742	41	281693	95.99	ug/Kg	99
17) Acrolein	4.559	56	179217	469.83	ug/Kg	100
18) Methylene Chloride	4.889	49	262938	83.16	ug/Kg	99
19) Acetone	4.974	43	310043	488.75	ug/Kg	99
20) Methyl acetate	5.145	43	789235	510.52	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	255115	100.76	ug/Kg	98
22) Hexane	5.224	56	161980	95.14	ug/Kg	98
23) Methyl Tert Butyl Ether	5.279	73	449453	101.15	ug/Kg	98
24) Tert butyl alcohol	5.450	59	285939	979.94	ug/Kg	96
25) Acetonitrile	5.639	41	252254	898.62	ug/Kg	96
26) Di-isopropyl ether	5.834	45	642657	101.12	ug/Kg	99
27) Chloroprene	5.980	53	259712	98.10	ug/Kg	99
28) 1,1-Dichloroethane	6.023	63	324593	100.31	ug/Kg	99
29) Acrylonitrile	6.108	53	366364	482.78	ug/Kg	98
30) ETBE	6.388	59	528398	100.96	ug/Kg	98
31) Vinyl acetate	6.413	43	1857781	451.10	ug/Kg	100
32) cis-1,2-Dichloroethene	6.864	96	183378	100.80	ug/Kg	98
33) 2,2-Dichloropropane	7.029	77	220368	104.95	ug/Kg	98
34) Bromochloromethane	7.187	128	93650	102.68	ug/Kg	99
35) Cyclohexane	7.175	56	332395	100.48	ug/Kg	97
36) Chloroform	7.321	83	285187	99.50	ug/Kg	96
37) Ethyl acetate	7.516	43	1027228	476.18	ug/Kg	100
38) Tetrahydrofuran	7.565	42	79368	102.31	ug/Kg	98
40) Carbon Tetrachloride	7.510	117	234784	105.69	ug/Kg	98
41) 1,1,1-Trichloroethane	7.614	97	253868	100.12	ug/Kg	100
42) 2-Butanone	7.778	43	524532	507.21	ug/Kg	100
43) 1,1-Dichloropropene	7.797	75	222662	101.89	ug/Kg	97
44) tert-Butyl Formate	7.955	59	567090	471.80	ug/Kg	89

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192751.D
Acq On : 27 Jun 2024 4:33 pm
Operator : davidb2
Sample : IC1220-6 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.169	54	287716	961.60	ug/Kg	98
46) Methacrylonitrile	8.199	41	1147866	913.95	ug/Kg	98
47) Benzene	8.126	78	657257	99.04	ug/Kg	99
48) TAME	8.278	73	427833	100.68	ug/Kg	98
50) 1,2-Dichloroethane	8.382	62	232993	98.32	ug/Kg	98
51) Isobutyl alcohol	8.437	42	137547	1822.01	ug/Kg	96
52) Tert Amyl Alcohol	8.540	59	194402	941.82	ug/Kg	92
53) Trichloroethene	8.821	95	179073	99.01	ug/Kg	99
54) Methylcyclohexane	8.796	83	295482	99.97	ug/Kg	98
55) Dibromomethane	9.266	93	101908	102.26	ug/Kg	96
56) 1,2-Dichloropropane	9.363	63	175888	95.04	ug/Kg	98
57) Bromodichloromethane	9.430	83	211350	103.19	ug/Kg	99
58) Methyl methacrylate	9.577	41	166997	90.81	ug/Kg	98
59) 1,4-Dioxane	9.632	88	50128	1886.04	ug/Kg	92
60) 2-Chloroethyl vinyl ether	9.906	63	2442	735.63	ug/Kg#	1
61) cis-1,3-Dichloropropene	10.022	75	259939	95.64	ug/Kg	99
64) Toluene	10.223	91	702632	99.27	ug/Kg	99
65) 2-Nitropropane	10.430	41	244486	474.68	ug/Kg	98
66) 4-Methyl-2-pentanone	10.540	43	977493	479.32	ug/Kg	98
67) trans-1,3-Dichloropropene	10.577	75	238928	93.16	ug/Kg	98
68) Tetrachloroethene	10.552	166	261094	99.83	ug/Kg	97
69) Ethyl methacrylate	10.692	69	197798	89.91	ug/Kg	98
70) 1,1,2-Trichloroethane	10.711	83	120798	95.90	ug/Kg	98
71) Dibromochloromethane	10.857	129	181036	93.65	ug/Kg	97
72) 1,3-Dichloropropane	10.930	76	243862	99.40	ug/Kg	99
73) 1,2-Dibromoethane	11.046	107	164860	102.61	ug/Kg	99
74) 3,3-dimethyl-1-butanol	11.180	57	1302127	4876.56	ug/Kg	98
75) 2-hexanone	11.198	43	934858	499.97	ug/Kg	97
76) 1-Chlorohexane	11.406	91	233674	98.24	ug/Kg	97
77) Ethylbenzene	11.448	91	765267	96.93	ug/Kg	99
78) Chlorobenzene	11.442	112	464460	96.22	ug/Kg	99
79) 1,1,1,2-Tetrachloroethane	11.485	131	178152	101.76	ug/Kg	98
80) m,p-Xylene	11.552	91	1192596	195.52	ug/Kg	100
81) o-Xylene	11.869	91	611520	100.50	ug/Kg	99
82) Styrene	11.906	104	490686	93.10	ug/Kg	99
83) Bromoform	11.948	173	117912	93.29	ug/Kg	99
84) Isopropylbenzene	12.082	105	770104	99.21	ug/Kg	99
87) cis-1,4-Dichloro-2-butene	12.338	53	72867	93.97	ug/Kg	95
88) n-Propylbenzene	12.375	91	878447	94.57	ug/Kg	94
89) Bromobenzene	12.387	156	209926	94.81	ug/Kg	98
90) 1,1,2,2-Tetrachloroethane	12.430	83	199940	95.03	ug/Kg	99
91) 1,3,5-Trimethylbenzene	12.497	105	641712	97.74	ug/Kg	98
92) 2-Chlorotoluene	12.503	91	570187	93.54	ug/Kg	99
93) trans-1,4-Dichloro-2-B...	12.552	53	68567	91.62	ug/Kg	98
94) 1,2,3-Trichloropropane	12.534	110	58646	92.94	ug/Kg	96
95) Cyclohexanone	12.582	55	73528	521.01	ug/Kg	94
96) 4-Chlorotoluene	12.613	91	536723	94.35	ug/Kg	99
97) tert-Butylbenzene	12.723	91	353248	96.13	ug/Kg	99
98) 1,2,4-Trimethylbenzene	12.765	105	640442	98.29	ug/Kg	99
99) Pentachloroethane	12.765	167	77020	83.25	ug/Kg	93
100) sec-Butylbenzene	12.844	105	847132	97.00	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	741641	100.20	ug/Kg	99
102) 1,3-Dichlorobenzene	13.027	146	392414	96.12	ug/Kg	95
103) 1,2,3-Trimethylbenzene	13.070	105	679767	100.43	ug/Kg	99
104) 1,4-Dichlorobenzene	13.082	146	395356	94.73	ug/Kg	99
105) n-Butylbenzene	13.216	92	376785	101.32	ug/Kg	99
106) Benzyl Chloride	13.241	126	87325	93.14	ug/Kg	97
107) 1,2-Dichlorobenzene	13.375	146	376694	97.29	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192751.D
Acq On : 27 Jun 2024 4:33 pm
Operator : davidb2
Sample : IC1220-6 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

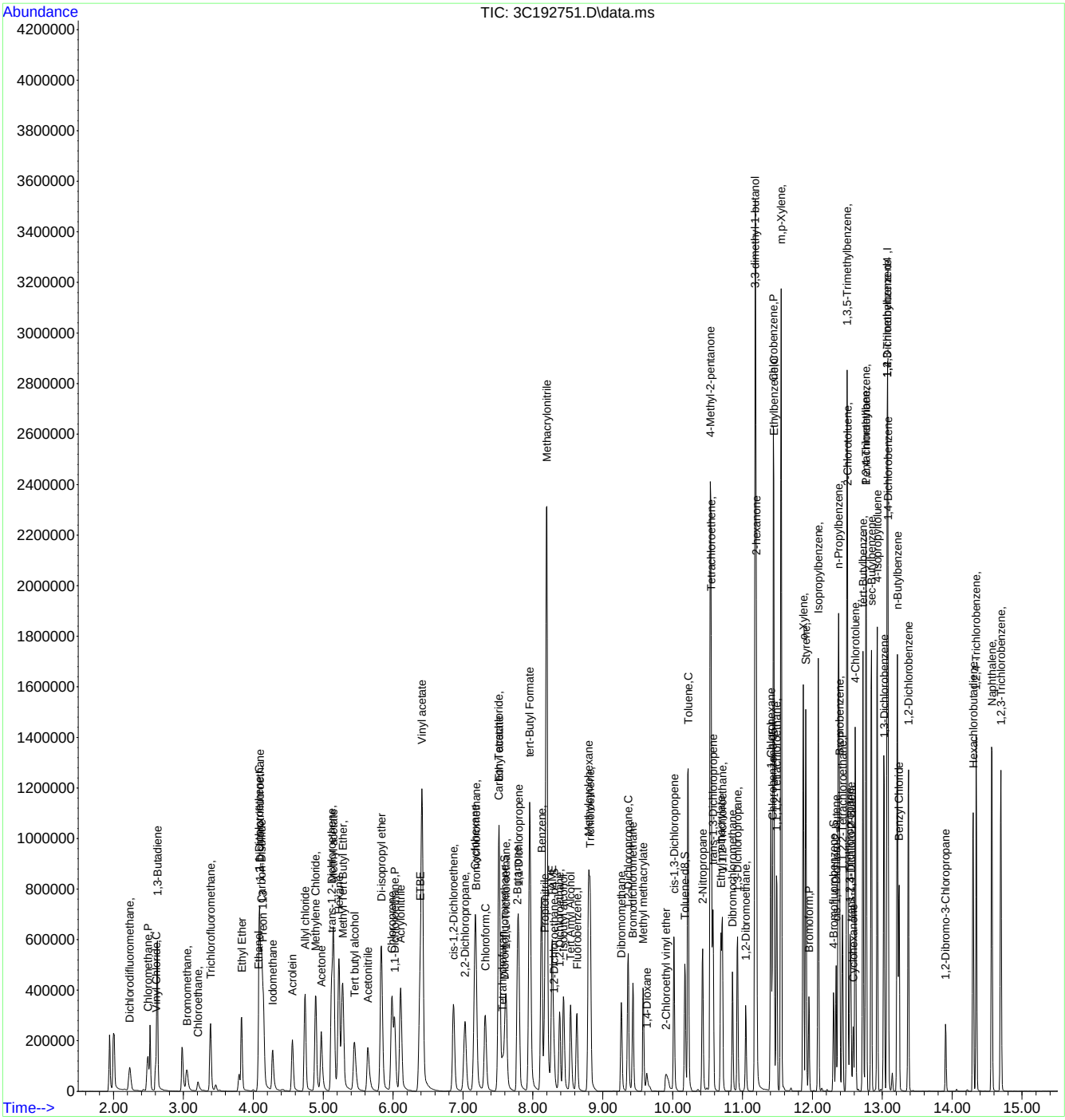
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	39097	93.78	ug/Kg	91
109) Hexachlorobutadiene	14.301	225	152815	98.86	ug/Kg	98
110) 1,2,4-Trichlorobenzene	14.344	180	294904	99.38	ug/Kg	99
111) Naphthalene	14.570	128	765880	93.17	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	288500	97.75	ug/Kg	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192751.D
Acq On : 27 Jun 2024 4:33 pm
Operator : davidb2
Sample : IC1220-6 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jun 28 09:24:45 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192752.D
Acq On : 27 Jun 2024 4:57 pm
Operator : davidb2
Sample : IC1220-7 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 09:24:58 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	244522	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	183059	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	100586	50.00	ug/Kg	# 0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.602	113	65374	51.76	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 103.52%			
49) 1,2-Dichloroethane-d4	8.303	65	67016	48.19	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 96.38%			
63) Toluene-d8	10.174	98	235371	50.60	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.20%			
86) 4-Bromofluorobenzene	12.302	174	77376	49.49	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 98.98%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.237	85	196606	135.73	ug/Kg	99
3) Chloromethane	2.493	50	374724	153.06	ug/Kg	97
4) 1,3-Butadiene	2.627	54	338135	165.24	ug/Kg	98
5) Vinyl Chloride	2.621	62	309994	173.41	ug/Kg	99
6) Bromomethane	3.060	94	136685	148.73	ug/Kg	97
7) Chloroethane	3.212	64	66277	173.07	ug/Kg	93
8) Trichlorofluoromethane	3.377	101	171331	73.89	ug/Kg	95
9) Ethyl Ether	3.846	59	315788	206.69	ug/Kg	98
10) Ethanol	4.127	45	142038	3619.55	ug/Kg	89
11) 1,2-Dichlorotrifluoroe...	4.096	67	380201	287.08	ug/Kg	96
12) 1,1-Dichloroethene	4.078	61	513644	210.47	ug/Kg	98
13) Freon 113	4.139	101	336940	202.19	ug/Kg	95
14) Carbon Disulfide	4.114	76	963904	215.31	ug/Kg	98
15) Iodomethane	4.279	142	370693	185.73	ug/Kg	97
16) Allyl chloride	4.742	41	549855	191.26	ug/Kg	98
17) Acrolein	4.566	56	358827	960.22	ug/Kg	100
18) Methylene Chloride	4.895	49	516699	181.74	ug/Kg	97
19) Acetone	4.980	43	628294	1010.99	ug/Kg	100
20) Methyl acetate	5.151	43	1601402	1057.38	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	512204	206.50	ug/Kg	99
22) Hexane	5.224	56	276939	166.04	ug/Kg	98
23) Methyl Tert Butyl Ether	5.285	73	933922	214.54	ug/Kg	97
24) Tert butyl alcohol	5.480	59	615382	1954.22	ug/Kg	93
25) Acetonitrile	5.651	41	514241	1869.95	ug/Kg	94
26) Di-isopropyl ether	5.840	45	1293757	207.79	ug/Kg	99
27) Chloroprene	5.980	53	529222	204.06	ug/Kg	99
28) 1,1-Dichloroethane	6.023	63	649448	204.86	ug/Kg	99
29) Acrylonitrile	6.114	53	745360	1002.59	ug/Kg	98
30) ETBE	6.394	59	1090948	212.77	ug/Kg	97
31) Vinyl acetate	6.419	43	3559804	882.33	ug/Kg	99
32) cis-1,2-Dichloroethene	6.864	96	372760	209.14	ug/Kg	99
33) 2,2-Dichloropropane	7.028	77	444353	216.03	ug/Kg	98
34) Bromochloromethane	7.187	128	189667	212.27	ug/Kg	99
35) Cyclohexane	7.169	56	664740	205.12	ug/Kg	99
36) Chloroform	7.321	83	572819	203.99	ug/Kg	98
37) Ethyl acetate	7.522	43	2042393	966.42	ug/Kg	99
38) Tetrahydrofuran	7.565	42	147529	194.12	ug/Kg	98
40) Carbon Tetrachloride	7.510	117	473304	217.48	ug/Kg	98
41) 1,1,1-Trichloroethane	7.614	97	523692	210.82	ug/Kg	100
42) 2-Butanone	7.784	43	1049382	1035.79	ug/Kg	100
43) 1,1-Dichloropropene	7.797	75	449409	209.92	ug/Kg	98
44) tert-Butyl Formate	7.961	59	1249949	953.06	ug/Kg	84

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192752.D
Acq On : 27 Jun 2024 4:57 pm
Operator : davidb2
Sample : IC1220-7 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 09:24:58 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	Propionitrile	8.181	54	571108	1948.37	ug/Kg	79
46)	Methacrylonitrile	8.205	41	2149186	1746.73	ug/Kg	98
47)	Benzene	8.126	78	1321184	203.21	ug/Kg	99
48)	TAME	8.278	73	895147	215.03	ug/Kg	96
50)	1,2-Dichloroethane	8.382	62	467798	201.51	ug/Kg	98
51)	Isobutyl alcohol	8.461	42	294464	3639.07	ug/Kg	94
52)	Tert Amyl Alcohol	8.565	59	434055	1894.06	ug/Kg	91
53)	Trichloroethene	8.821	95	357641	201.84	ug/Kg	98
54)	Methylcyclohexane	8.803	83	589228	203.49	ug/Kg	99
55)	Dibromomethane	9.266	93	209602	214.68	ug/Kg	95
56)	1,2-Dichloropropane	9.363	63	353483	192.22	ug/Kg	98
57)	Bromodichloromethane	9.430	83	440033	219.31	ug/Kg	98
58)	Methyl methacrylate	9.577	41	346461	182.42	ug/Kg	98
59)	1,4-Dioxane	9.638	88	109580	3872.97	ug/Kg	94
60)	2-Chloroethyl vinyl ether	9.924	63	5587	1717.98	ug/Kg#	1
61)	cis-1,3-Dichloropropene	10.022	75	530484	191.29	ug/Kg	96
64)	Toluene	10.223	91	1392598	200.54	ug/Kg	99
65)	2-Nitropropane	10.430	41	502663	935.45	ug/Kg	99
66)	4-Methyl-2-pentanone	10.540	43	1790945	895.13	ug/Kg	96
67)	trans-1,3-Dichloropropene	10.577	75	485258	186.16	ug/Kg	97
68)	Tetrachloroethene	10.552	166	493718	192.03	ug/Kg	99
69)	Ethyl methacrylate	10.692	69	409131	179.38	ug/Kg	98
70)	1,1,2-Trichloroethane	10.711	83	243959	197.41	ug/Kg	98
71)	Dibromochloromethane	10.857	129	377880	187.17	ug/Kg	97
72)	1,3-Dichloropropane	10.930	76	486609	202.17	ug/Kg	98
73)	1,2-Dibromoethane	11.046	107	335587	212.91	ug/Kg	98
74)	3,3-dimethyl-1-butanol	11.192	57	2427337	9474.01	ug/Kg	97
75)	2-hexanone	11.198	43	1654028	901.65	ug/Kg#	65
76)	1-Chlorohexane	11.406	91	464138	198.88	ug/Kg	98
77)	Ethylbenzene	11.448	91	1484377	191.63	ug/Kg	100
78)	Chlorobenzene	11.442	112	909629	192.08	ug/Kg	97
79)	1,1,1,2-Tetrachloroethane	11.491	131	362898	211.29	ug/Kg	100
80)	m,p-Xylene	11.552	91	2284616	381.77	ug/Kg	100
81)	o-Xylene	11.869	91	1224361	205.10	ug/Kg	99
82)	Styrene	11.906	104	1006420	186.57	ug/Kg	99
83)	Bromoform	11.948	173	268129	187.55	ug/Kg	99
84)	Isopropylbenzene	12.082	105	1557193	204.47	ug/Kg	99
87)	cis-1,4-Dichloro-2-butene	12.338	53	164229	211.34	ug/Kg	94
88)	n-Propylbenzene	12.375	91	1774968	190.69	ug/Kg	95
89)	Bromobenzene	12.387	156	435653	196.33	ug/Kg	98
90)	1,1,2,2-Tetrachloroethane	12.430	83	433916	205.80	ug/Kg	99
91)	1,3,5-Trimethylbenzene	12.497	105	1297024	197.13	ug/Kg	98
92)	2-Chlorotoluene	12.503	91	1138887	186.45	ug/Kg	98
93)	trans-1,4-Dichloro-2-B...	12.552	53	148489	195.24	ug/Kg	96
94)	1,2,3-Trichloropropane	12.540	110	129430	204.68	ug/Kg	92
95)	Cyclohexanone	12.582	55	153922	1052.17	ug/Kg	96
96)	4-Chlorotoluene	12.613	91	1108266	194.41	ug/Kg	99
97)	tert-Butylbenzene	12.722	91	730933	198.48	ug/Kg	98
98)	1,2,4-Trimethylbenzene	12.771	105	1314940	201.39	ug/Kg	94
99)	Pentachloroethane	12.765	167	171738	185.22	ug/Kg	97
100)	sec-Butylbenzene	12.844	105	1753903	200.41	ug/Kg	100
101)	4-Isopropyltoluene	12.930	119	1546799	208.53	ug/Kg	99
102)	1,3-Dichlorobenzene	13.027	146	832504	203.47	ug/Kg	96
103)	1,2,3-Trimethylbenzene	13.070	105	1401942	206.68	ug/Kg	99
104)	1,4-Dichlorobenzene	13.082	146	820189	196.11	ug/Kg	99
105)	n-Butylbenzene	13.216	92	781205	209.62	ug/Kg	99
106)	Benzyl Chloride	13.241	126	199424	189.88	ug/Kg	96
107)	1,2-Dichlorobenzene	13.375	146	815105	210.07	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192752.D
Acq On : 27 Jun 2024 4:57 pm
Operator : davidb2
Sample : IC1220-7 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 09:24:58 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration

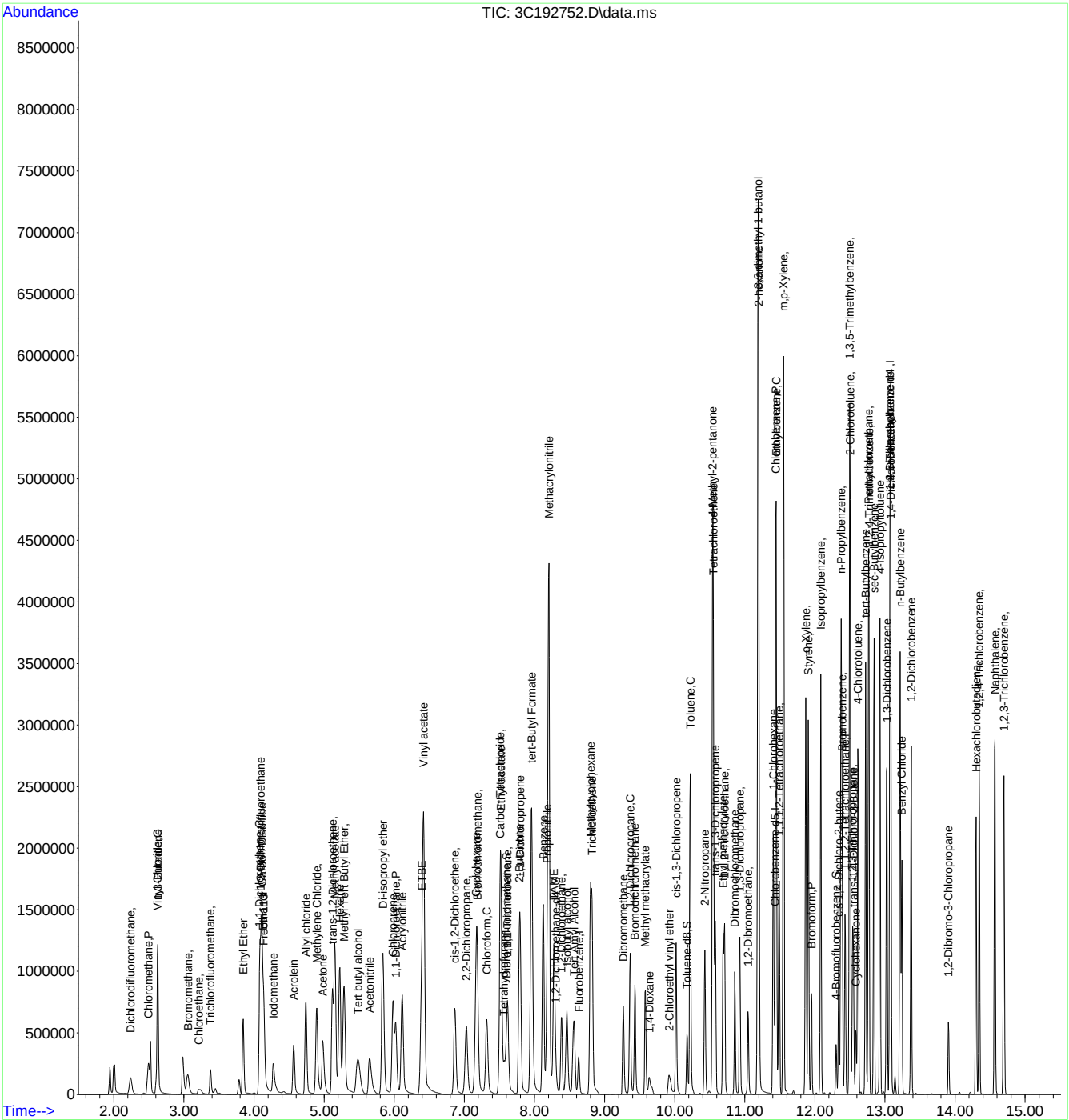
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	87196	189.62	ug/Kg	89
109) Hexachlorobutadiene	14.301	225	313638	202.47	ug/Kg	98
110) 1,2,4-Trichlorobenzene	14.344	180	609681	205.02	ug/Kg	98
111) Naphthalene	14.570	128	1617995	190.87	ug/Kg	100
112) 1,2,3-Trichlorobenzene	14.698	180	596366	201.62	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192752.D
Acq On : 27 Jun 2024 4:57 pm
Operator : davidb2
Sample : IC1220-7 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jun 28 09:24:58 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Mon Jun 10 14:47:37 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192754.D
Acq On : 27 Jun 2024 5:46 pm
Operator : davidb2
Sample : ICV1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:30:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	248672	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	188763	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	97245	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	64274	50.40	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.80%			
49) 1,2-Dichloroethane-d4	8.303	65	68220	49.09	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 98.18%			
63) Toluene-d8	10.174	98	242010	50.65	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 101.30%			
86) 4-Bromofluorobenzene	12.302	174	76196	50.38	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 100.76%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	54728	51.10	ug/Kg	98
3) Chloromethane	2.493	50	107461	52.30	ug/Kg	95
4) 1,3-Butadiene	2.627	54	91236	53.85	ug/Kg	98
5) Vinyl Chloride	2.608	62	77632	50.95	ug/Kg	99
6) Bromomethane	3.047	94	30242	45.68	ug/Kg	97
7) Chloroethane	3.206	64	16814	48.36	ug/Kg	97
8) Trichlorofluoromethane	3.389	101	104757	49.34	ug/Kg	100
9) Ethyl Ether	3.834	59	75260	51.23	ug/Kg	99
10) Ethanol	4.078	45	32889	985.85	ug/Kg	96
11) 1,2-Dichlorotrifluoroe...	4.096	67	93689	49.64	ug/Kg	98
12) 1,1-Dichloroethene	4.084	61	126885	50.97	ug/Kg	98
13) Freon 113	4.145	101	83045	50.38	ug/Kg	97
14) Carbon Disulfide	4.120	76	195858	43.85	ug/Kg	99
15) Iodomethane	4.279	142	88026	44.23	ug/Kg	97
16) Allyl chloride	4.742	41	149118	55.88	ug/Kg	98
17) Acrolein	4.559	56	80631	241.56	ug/Kg	100
18) Methylene Chloride	4.895	49	156545	53.26	ug/Kg	97
19) Acetone	4.974	43	167181	263.85	ug/Kg	97
20) Methyl acetate	5.145	43	429657	280.87	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	130216	51.84	ug/Kg	99
22) Hexane	5.224	56	79628	45.70	ug/Kg	97
23) Methyl Tert Butyl Ether	5.279	73	228575	53.88	ug/Kg	98
24) Tert butyl alcohol	5.449	59	141567	543.41	ug/Kg	99
25) Acetonitrile	5.638	41	136507	519.84	ug/Kg	95
26) Di-isopropyl ether	5.833	45	311127	51.27	ug/Kg	97
27) Chloroprene	5.980	53	136844	56.86	ug/Kg	98
28) 1,1-Dichloroethane	6.022	63	160528	50.85	ug/Kg	97
29) Acrylonitrile	6.108	53	200964	285.66	ug/Kg	99
30) ETBE	6.388	59	259017	52.33	ug/Kg	99
31) Vinyl acetate	6.419	43	884284	237.84	ug/Kg	99
32) cis-1,2-Dichloroethene	6.864	96	91085	52.18	ug/Kg	98
33) 2,2-Dichloropropane	7.028	77	111681	54.31	ug/Kg	99
34) Bromochloromethane	7.187	128	47591	53.21	ug/Kg	98
35) Cyclohexane	7.169	56	159141	49.43	ug/Kg	99
36) Chloroform	7.315	83	144248	52.00	ug/Kg	97
37) Ethyl acetate	7.516	43	538478	272.66	ug/Kg	99
38) Tetrahydrofuran	7.571	42	37733	51.07	ug/Kg	95
40) Carbon Tetrachloride	7.510	117	112864	51.28	ug/Kg	96
41) 1,1,1-Trichloroethane	7.614	97	129454	52.31	ug/Kg	98
42) 2-Butanone	7.784	43	245385	242.66	ug/Kg	98
43) 1,1-Dichloropropene	7.797	75	113523	52.44	ug/Kg	95
44) tert-Butyl Formate	7.955	59	246054	231.16	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192754.D
Acq On : 27 Jun 2024 5:46 pm
Operator : davidb2
Sample : ICV1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:30:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45)	Propionitrile	8.168	54	153976	548.32	ug/Kg	99
46)	Methacrylonitrile	8.193	41	626387	543.43	ug/Kg	99
47)	Benzene	8.126	78	337142	51.89	ug/Kg	99
48)	TAME	8.278	73	207038	51.87	ug/Kg	98
50)	1,2-Dichloroethane	8.382	62	118136	51.81	ug/Kg	100
51)	Isobutyl alcohol	8.437	42	69895	1086.04	ug/Kg	94
52)	Tert Amyl Alcohol	8.540	59	98059	544.40	ug/Kg	93
53)	Trichloroethene	8.821	95	91481	52.60	ug/Kg	98
54)	Methylcyclohexane	8.802	83	145837	50.82	ug/Kg	96
55)	Dibromomethane	9.266	93	53014	54.48	ug/Kg	96
56)	1,2-Dichloropropane	9.363	63	92742	54.56	ug/Kg	97
57)	Bromodichloromethane	9.430	83	102249	52.58	ug/Kg	98
58)	Methyl methacrylate	9.583	41	86698	53.77	ug/Kg	98
59)	1,4-Dioxane	9.632	88	26196	1080.10	ug/Kg	89
60)	2-Chloroethyl vinyl ether	9.918	63	450	118.62	ug/Kg#	14
61)	cis-1,3-Dichloropropene	10.022	75	130684	51.22	ug/Kg	97
64)	Toluene	10.223	91	358239	51.22	ug/Kg	99
65)	2-Nitropropane	10.430	41	127709	270.08	ug/Kg	98
66)	4-Methyl-2-pentanone	10.540	43	527031	270.13	ug/Kg	99
67)	trans-1,3-Dichloropropene	10.576	75	112470	50.41	ug/Kg	99
68)	Tetrachloroethene	10.552	166	134534	57.12	ug/Kg	98
69)	Ethyl methacrylate	10.692	69	101341	51.84	ug/Kg	99
70)	1,1,2-Trichloroethane	10.711	83	62552	51.86	ug/Kg	98
71)	Dibromochloromethane	10.857	129	90578	51.31	ug/Kg	99
72)	1,3-Dichloropropane	10.930	76	132840	55.74	ug/Kg	99
73)	1,2-Dibromoethane	11.046	107	82700	53.24	ug/Kg	99
74)	3,3-dimethyl-1-butanol	11.180	57	641765	2467.89	ug/Kg	100
75)	2-hexanone	11.198	43	495331	273.68	ug/Kg	99
76)	1-Chlorohexane	11.406	91	116394	50.80	ug/Kg	98
77)	Ethylbenzene	11.448	91	392753	50.92	ug/Kg	98
78)	Chlorobenzene	11.442	112	240622	50.96	ug/Kg	98
79)	1,1,1,2-Tetrachloroethane	11.485	131	89663	52.91	ug/Kg	98
80)	m,p-Xylene	11.552	91	606208	101.90	ug/Kg	99
81)	o-Xylene	11.869	91	300551	50.37	ug/Kg	97
82)	Styrene	11.905	104	249041	54.28	ug/Kg	99
83)	Bromoform	11.948	173	55414	50.32	ug/Kg	97
84)	Isopropylbenzene	12.082	105	387840	51.19	ug/Kg	99
87)	cis-1,4-Dichloro-2-butene	12.338	53	38666	54.81	ug/Kg	96
88)	n-Propylbenzene	12.375	91	436458	49.45	ug/Kg	95
89)	Bromobenzene	12.387	156	110935	53.43	ug/Kg	97
90)	1,1,2,2-Tetrachloroethane	12.430	83	100152	51.28	ug/Kg	98
91)	1,3,5-Trimethylbenzene	12.497	105	319747	51.71	ug/Kg	99
92)	2-Chlorotoluene	12.503	91	288843	50.12	ug/Kg	98
93)	trans-1,4-Dichloro-2-B...	12.552	53	33826	51.42	ug/Kg	95
94)	1,2,3-Trichloropropane	12.533	110	32178	54.90	ug/Kg	96
95)	Cyclohexanone	12.582	55	22017	162.17	ug/Kg	98
96)	4-Chlorotoluene	12.613	91	266111	49.55	ug/Kg	99
97)	tert-Butylbenzene	12.722	91	175164	50.52	ug/Kg	99
98)	1,2,4-Trimethylbenzene	12.765	105	315919	51.15	ug/Kg	98
99)	Pentachloroethane	12.765	167	36494	43.08	ug/Kg	92
100)	sec-Butylbenzene	12.844	105	397413	48.29	ug/Kg	99
101)	4-Isopropyltoluene	12.930	119	351410	49.88	ug/Kg	100
102)	1,3-Dichlorobenzene	13.027	146	188158	48.86	ug/Kg	95
103)	1,2,3-Trimethylbenzene	13.070	105	327025	50.49	ug/Kg	99
104)	1,4-Dichlorobenzene	13.082	146	193152	49.59	ug/Kg	98
105)	n-Butylbenzene	13.216	92	183793	52.46	ug/Kg	98
106)	Benzyl Chloride	13.241	126	38848	49.62	ug/Kg	98
107)	1,2-Dichlorobenzene	13.375	146	181444	50.15	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192754.D
Acq On : 27 Jun 2024 5:46 pm
Operator : davidb2
Sample : ICV1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:30:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

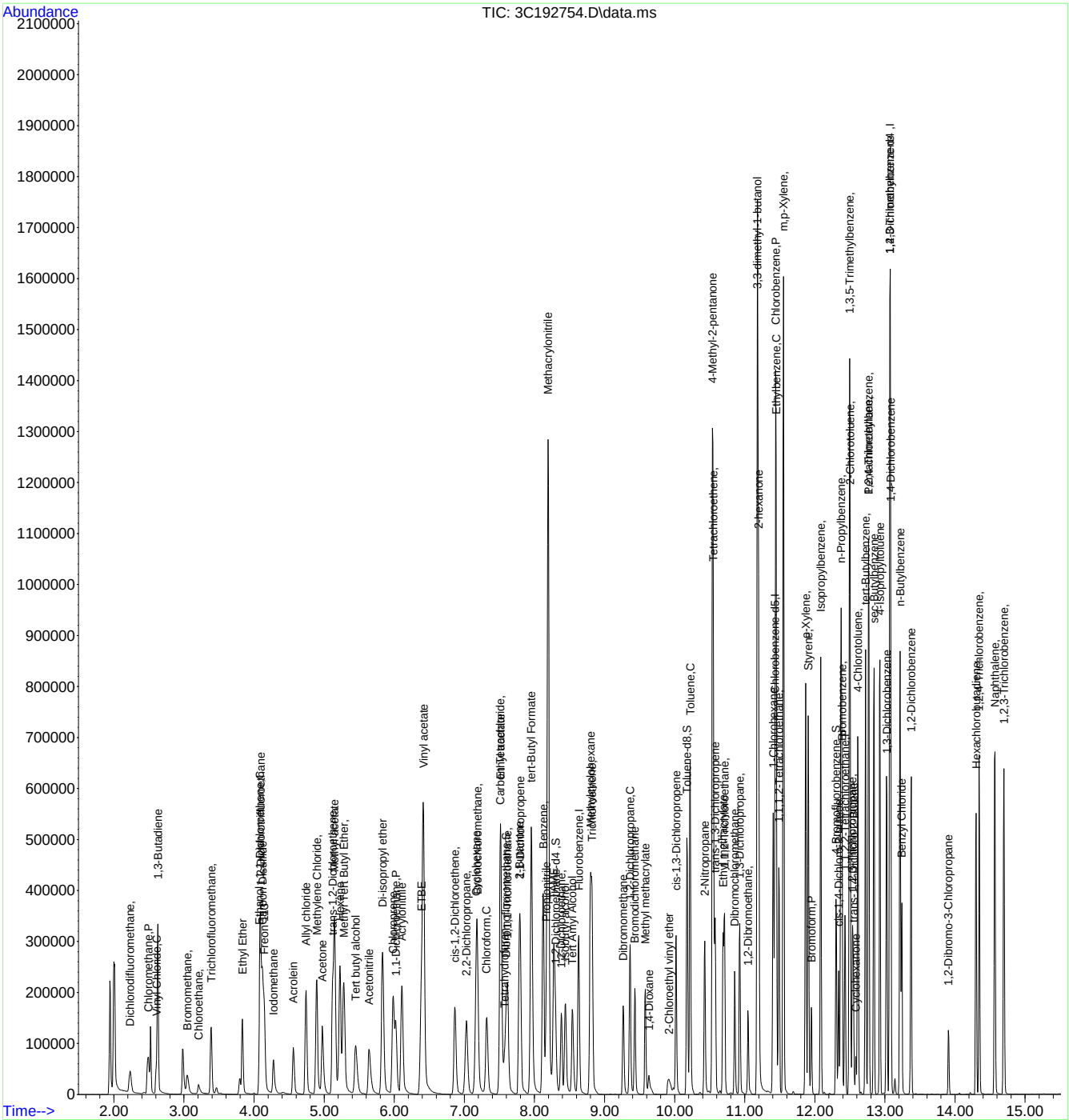
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	18968	52.95	ug/Kg	97
109) Hexachlorobutadiene	14.301	225	75387	51.96	ug/Kg	99
110) 1,2,4-Trichlorobenzene	14.344	180	141210	52.10	ug/Kg	99
111) Naphthalene	14.570	128	380222	55.46	ug/Kg	100
112) 1,2,3-Trichlorobenzene	14.698	180	144952	53.21	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-06-27\
Data File : 3C192754.D
Acq On : 27 Jun 2024 5:46 pm
Operator : davidb2
Sample : ICV1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1220,5.00,,,5,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Jun 28 09:30:39 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193001.D
Acq On : 17 Jul 2024 10:59 am
Operator : davidb2
Sample : CC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 11:15:24 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	242943	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	183649	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	95084	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.595	113	61770	49.57	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.14%			
49) 1,2-Dichloroethane-d4	8.303	65	64831	47.76	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 95.52%			
63) Toluene-d8	10.174	98	231886	49.89	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.78%			
86) 4-Bromofluorobenzene	12.308	174	73572	49.75	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	72072	68.88	ug/Kg	97
3) Chloromethane	2.487	50	113846	56.72	ug/Kg	99
4) 1,3-Butadiene	2.627	54	88364	53.38	ug/Kg	98
5) Vinyl Chloride	2.603	62	90934	61.09	ug/Kg	100
6) Bromomethane	3.048	94	43757	67.66	ug/Kg	97
7) Chloroethane	3.206	64	19513	57.45	ug/Kg	95
8) Trichlorofluoromethane	3.389	101	119580	57.65	ug/Kg	99
9) Ethyl Ether	3.828	59	80828	56.32	ug/Kg	94
10) Ethanol	4.072	45	28779	885.46	ug/Kg	98
11) 1,2-Dichlorotrifluoroe...	4.096	67	101662	55.13	ug/Kg	97
12) 1,1-Dichloroethene	4.084	61	135022	55.51	ug/Kg	98
13) Freon 113	4.139	101	95249	59.15	ug/Kg	97
14) Carbon Disulfide	4.120	76	245295	56.21	ug/Kg	99
15) Iodomethane	4.279	142	122601	63.44	ug/Kg	100
16) Allyl chloride	4.742	41	147406	56.54	ug/Kg	98
17) Acrolein	4.559	56	90946	278.89	ug/Kg	100
18) Methylene Chloride	4.889	49	149773	52.11	ug/Kg	97
19) Acetone	4.974	43	157427	254.32	ug/Kg	95
20) Methyl acetate	5.145	43	389326	260.51	ug/Kg	99
21) trans-1,2-Dichloroethene	5.120	61	137497	56.03	ug/Kg	99
22) Hexane	5.224	56	95901	56.34	ug/Kg	99
23) Methyl Tert Butyl Ether	5.279	73	234496	56.58	ug/Kg	99
24) Tert butyl alcohol	5.449	59	136828	537.60	ug/Kg	100
25) Acetonitrile	5.638	41	122028	475.66	ug/Kg	97
26) Di-isopropyl ether	5.834	45	338042	57.01	ug/Kg	99
27) Chloroprene	5.986	53	133871	56.94	ug/Kg	97
28) 1,1-Dichloroethane	6.023	63	168686	54.69	ug/Kg	99
29) Acrylonitrile	6.108	53	180238	262.24	ug/Kg	99
30) ETBE	6.388	59	279196	57.74	ug/Kg	97
31) Vinyl acetate	6.413	43	1086719	299.18	ug/Kg	100
32) cis-1,2-Dichloroethene	6.864	96	97057	56.91	ug/Kg	98
33) 2,2-Dichloropropane	7.028	77	122025	60.73	ug/Kg	98
34) Bromochloromethane	7.187	128	51070	58.44	ug/Kg	94
35) Cyclohexane	7.175	56	185119	58.85	ug/Kg	97
36) Chloroform	7.321	83	149991	55.34	ug/Kg	98
37) Ethyl acetate	7.516	43	513808	266.31	ug/Kg	98
38) Tetrahydrofuran	7.571	42	40347	55.90	ug/Kg	91
40) Carbon Tetrachloride	7.510	117	123776	57.56	ug/Kg	98
41) 1,1,1-Trichloroethane	7.614	97	135106	55.89	ug/Kg	99
42) 2-Butanone	7.778	43	250137	253.19	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	113451	53.64	ug/Kg	99
44) tert-Butyl Formate	7.955	59	252223	241.89	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193001.D
Acq On : 17 Jul 2024 10:59 am
Operator : davidb2
Sample : CC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 11:15:24 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.168	54	144496	526.69	ug/Kg	96
46) Methacrylonitrile	8.193	41	589747	523.70	ug/Kg	99
47) Benzene	8.120	78	357013	56.24	ug/Kg	99
48) TAME	8.278	73	226487	58.08	ug/Kg	100
50) 1,2-Dichloroethane	8.382	62	117725	52.84	ug/Kg	100
51) Isobutyl alcohol	8.437	42	63569	1015.11	ug/Kg	98
52) Tert Amyl Alcohol	8.540	59	96129	546.12	ug/Kg	95
53) Trichloroethene	8.821	95	95091	55.96	ug/Kg	98
54) Methylcyclohexane	8.803	83	167465	59.73	ug/Kg	96
55) Dibromomethane	9.266	93	53565	56.35	ug/Kg	97
56) 1,2-Dichloropropane	9.363	63	96415	58.06	ug/Kg	96
57) Bromodichloromethane	9.430	83	109788	57.79	ug/Kg	95
58) Methyl methacrylate	9.577	41	81319	51.69	ug/Kg	98
59) 1,4-Dioxane	9.632	88	24674	1043.28	ug/Kg	92
60) 2-Chloroethyl vinyl ether	9.912	63	741	199.94	ug/Kg#	36
61) cis-1,3-Dichloropropene	10.022	75	141553	56.67	ug/Kg	94
64) Toluene	10.223	91	385771	56.69	ug/Kg	99
65) 2-Nitropropane	10.430	41	122483	266.37	ug/Kg	100
66) 4-Methyl-2-pentanone	10.540	43	489648	257.96	ug/Kg	99
67) trans-1,3-Dichloropropene	10.577	75	131081	60.39	ug/Kg	97
68) Tetrachloroethene	10.552	166	119741	52.25	ug/Kg	98
69) Ethyl methacrylate	10.692	69	99819	52.47	ug/Kg	97
70) 1,1,2-Trichloroethane	10.711	83	63419	54.04	ug/Kg	98
71) Dibromochloromethane	10.857	129	92388	53.70	ug/Kg	98
72) 1,3-Dichloropropane	10.930	76	131651	56.78	ug/Kg	100
73) 1,2-Dibromoethane	11.046	107	82739	54.75	ug/Kg	96
74) 3,3-dimethyl-1-butanol	11.180	57	622186	2459.13	ug/Kg	99
75) 2-hexanone	11.198	43	469177	266.45	ug/Kg	99
76) 1-Chlorohexane	11.406	91	134436	60.30	ug/Kg	97
77) Ethylbenzene	11.448	91	436350	58.15	ug/Kg	98
78) Chlorobenzene	11.442	112	259910	56.58	ug/Kg	100
79) 1,1,1,2-Tetrachloroethane	11.485	131	92733	56.25	ug/Kg	98
80) m,p-Xylene	11.552	91	674669	116.57	ug/Kg	99
81) o-Xylene	11.869	91	337677	58.17	ug/Kg	98
82) Styrene	11.906	104	269712	60.42	ug/Kg	99
83) Bromoform	11.948	173	59194	54.83	ug/Kg	99
84) Isopropylbenzene	12.082	105	431631	58.55	ug/Kg	99
87) cis-1,4-Dichloro-2-butene	12.338	53	35558	51.55	ug/Kg	95
88) n-Propylbenzene	12.375	91	498308	57.74	ug/Kg	97
89) Bromobenzene	12.387	156	117342	57.80	ug/Kg	97
90) 1,1,2,2-Tetrachloroethane	12.430	83	102644	53.75	ug/Kg	99
91) 1,3,5-Trimethylbenzene	12.497	105	353227	58.43	ug/Kg	99
92) 2-Chlorotoluene	12.503	91	319659	56.72	ug/Kg	99
93) trans-1,4-Dichloro-2-B...	12.552	53	34696	53.86	ug/Kg	95
94) 1,2,3-Trichloropropane	12.533	110	32230	56.24	ug/Kg	96
95) Cyclohexanone	12.582	55	47405	349.51	ug/Kg	96
96) 4-Chlorotoluene	12.613	91	301221	57.36	ug/Kg	100
97) tert-Butylbenzene	12.722	91	194637	57.42	ug/Kg	99
98) 1,2,4-Trimethylbenzene	12.765	105	351201	58.16	ug/Kg	97
99) Pentachloroethane	12.765	167	58488	70.61	ug/Kg	93
100) sec-Butylbenzene	12.844	105	468706	58.25	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	409298	59.41	ug/Kg	99
102) 1,3-Dichlorobenzene	13.027	146	213160	56.61	ug/Kg	96
103) 1,2,3-Trimethylbenzene	13.070	105	356082	56.22	ug/Kg	99
104) 1,4-Dichlorobenzene	13.082	146	217561	57.13	ug/Kg	99
105) n-Butylbenzene	13.216	92	207795	60.66	ug/Kg	97
106) Benzyl Chloride	13.241	126	43841	56.65	ug/Kg	98
107) 1,2-Dichlorobenzene	13.375	146	202600	57.27	ug/Kg	99

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193001.D
Acq On : 17 Jul 2024 10:59 am
Operator : davidb2
Sample : CC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 11:15:24 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

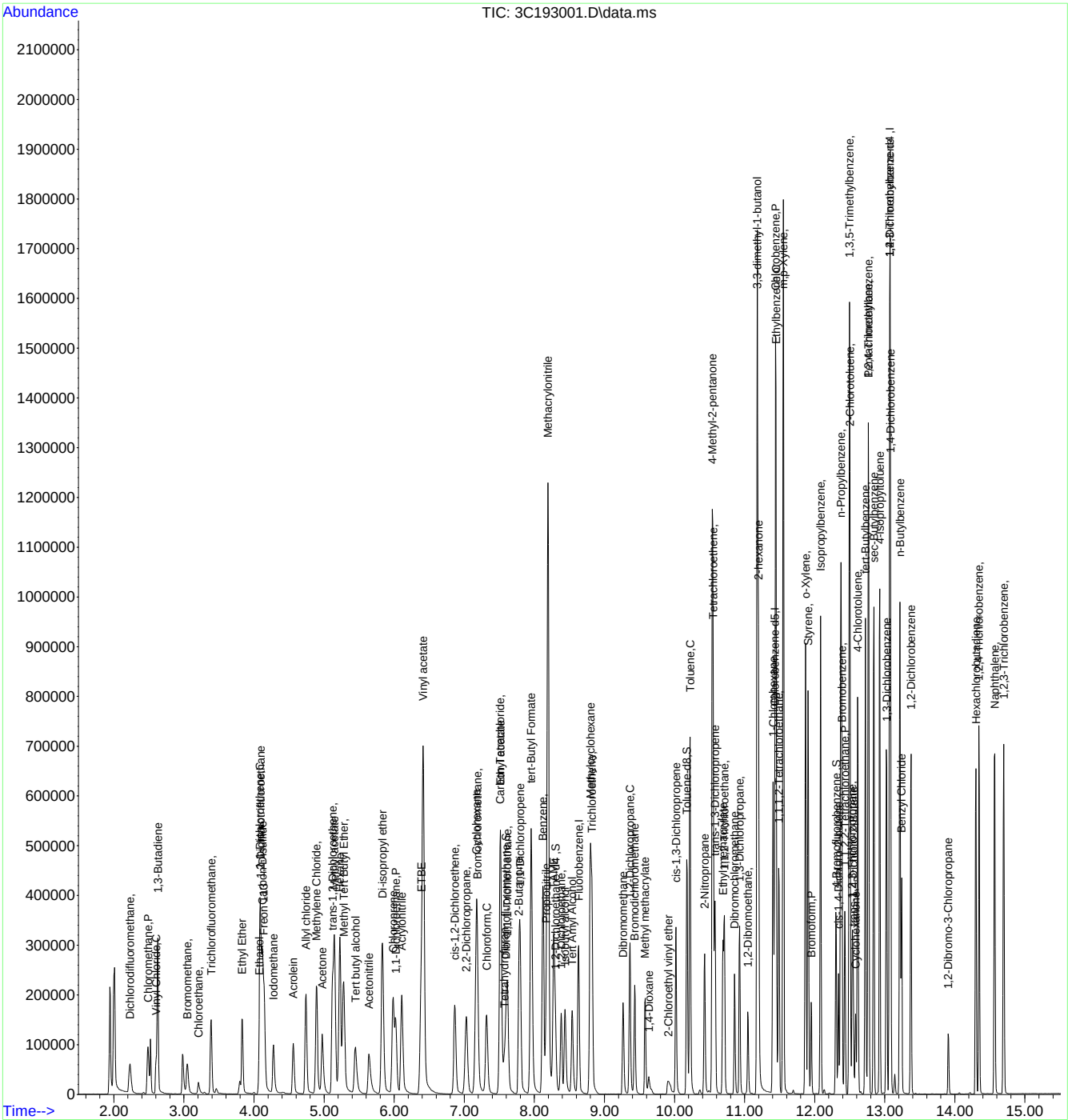
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	19261	54.87	ug/Kg	96
109) Hexachlorobutadiene	14.301	225	87854	61.93	ug/Kg	99
110) 1,2,4-Trichlorobenzene	14.344	180	162546	61.34	ug/Kg	98
111) Naphthalene	14.570	128	389275	58.07	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	155687	58.45	ug/Kg	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\2024-07-17\
Data File : 3C193001.D
Acq On : 17 Jul 2024 10:59 am
Operator : davidb2
Sample : CC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jul 17 11:15:24 2024
Quant Method : C:\msdchem\1\methods\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193016.d
Acq On : 17 Jul 2024 5:12 pm
Operator : davidb2
Sample : ECC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 01:47:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	8.632	96	224573	50.00	ug/Kg	0.00
62) Chlorobenzene-d5	11.430	117	171448	50.00	ug/Kg	0.00
85) 1,4-Dichlorobenzene-d4	13.070	152	87366	50.00	ug/Kg	0.00
System Monitoring Compounds						
39) Dibromofluoromethane	7.596	113	57473	49.90	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.80%			
49) 1,2-Dichloroethane-d4	8.303	65	62647	49.92	ug/Kg	0.00
Spiked Amount 50.000	Range 72 - 135		Recovery = 99.84%			
63) Toluene-d8	10.174	98	214837	49.51	ug/Kg	0.00
Spiked Amount 50.000	Range 75 - 126		Recovery = 99.02%			
86) 4-Bromofluorobenzene	12.302	174	67258	49.50	ug/Kg	0.00
Spiked Amount 50.000	Range 71 - 133		Recovery = 99.00%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.231	85	61713	63.8041	ug/Kg	100
3) Chloromethane	2.487	50	108327	58.3828	ug/Kg	98
4) 1,3-Butadiene	2.627	54	78441	51.2626	ug/Kg	97
5) Vinyl Chloride	2.603	62	84473	61.3942	ug/Kg	98
6) Bromomethane	3.048	94	42983	71.8986	ug/Kg	96
7) Chloroethane	3.206	64	18711	59.5967	ug/Kg	95
8) Trichlorofluoromethane	3.389	101	110441	57.5967	ug/Kg	99
9) Ethyl Ether	3.828	59	78528	59.1961	ug/Kg	96
10) Ethanol	4.066	45	29156	968.2085	ug/Kg	93
11) 1,2-Dichlorotrifluoroe...	4.096	67	93863	55.0637	ug/Kg	96
12) 1,1-Dichloroethene	4.084	61	123939	55.1263	ug/Kg	98
13) Freon 113	4.145	101	82721	55.5693	ug/Kg	99
14) Carbon Disulfide	4.121	76	222974	55.2746	ug/Kg	99
15) Iodomethane	4.279	142	106949	59.8023	ug/Kg	100
16) Allyl chloride	4.742	41	137985	57.2548	ug/Kg	98
17) Acrolein	4.560	56	81111	269.0763	ug/Kg	100
18) Methylene Chloride	4.889	49	146465	55.2634	ug/Kg	99
19) Acetone	4.974	43	155918	272.4813	ug/Kg	95
20) Methyl acetate	5.145	43	414311	299.9001	ug/Kg	100
21) trans-1,2-Dichloroethene	5.120	61	127667	56.2798	ug/Kg	97
22) Hexane	5.224	56	83048	52.7800	ug/Kg	98
23) Methyl Tert Butyl Ether	5.279	73	225468	58.8545	ug/Kg	97
24) Tert butyl alcohol	5.443	59	137482	584.3582	ug/Kg	99
25) Acetonitrile	5.645	41	123430	520.4813	ug/Kg	98
26) Di-isopropyl ether	5.834	45	322391	58.8222	ug/Kg	99
27) Chloroprene	5.980	53	122818	56.5073	ug/Kg	98
28) 1,1-Dichloroethane	6.023	63	158249	55.5064	ug/Kg	99
29) Acrylonitrile	6.108	53	174321	274.3742	ug/Kg	99
30) ETBE	6.388	59	270893	60.6006	ug/Kg	99
31) Vinyl acetate	6.413	43	842584	250.9464	ug/Kg	100
32) cis-1,2-Dichloroethene	6.864	96	90447	57.3708	ug/Kg	99
33) 2,2-Dichloropropane	7.029	77	108760	58.5606	ug/Kg	99
34) Bromochloromethane	7.181	128	46375	57.4115	ug/Kg	95
35) Cyclohexane	7.175	56	164455	56.5565	ug/Kg	95
36) Chloroform	7.321	83	143345	57.2147	ug/Kg	98
37) Ethyl acetate	7.516	43	500283	280.5068	ug/Kg	100
38) Tetrahydrofuran	7.571	42	39266	58.8513	ug/Kg	93
40) Carbon Tetrachloride	7.510	117	112068	56.3772	ug/Kg	99
41) 1,1,1-Trichloroethane	7.614	97	124016	55.4947	ug/Kg	99
42) 2-Butanone	7.784	43	245351	268.6597	ug/Kg	99
43) 1,1-Dichloropropene	7.797	75	101758	52.0480	ug/Kg	94
44) tert-Butyl Formate	7.955	59	205325	214.4973	ug/Kg	97

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193016.d
Acq On : 17 Jul 2024 5:12 pm
Operator : davidb2
Sample : ECC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 01:47:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) Propionitrile	8.169	54	140063	552.2964	ug/Kg	99
46) Methacrylonitrile	8.193	41	583898	560.9235	ug/Kg	99
47) Benzene	8.120	78	334530	57.0101	ug/Kg	100
48) TAME	8.278	73	218342	60.5710	ug/Kg	97
50) 1,2-Dichloroethane	8.382	62	117640	57.1255	ug/Kg	99
51) Isobutyl alcohol	8.437	42	62993	1083.9557	ug/Kg	98
52) Tert Amyl Alcohol	8.540	59	91248	559.6240	ug/Kg	97
53) Trichloroethene	8.821	95	88782	56.5232	ug/Kg	98
54) Methylcyclohexane	8.796	83	144997	55.9458	ug/Kg	98
55) Dibromomethane	9.266	93	51785	58.9304	ug/Kg	99
56) 1,2-Dichloropropane	9.363	63	91832	59.8213	ug/Kg	96
57) Bromodichloromethane	9.431	83	104417	59.4564	ug/Kg	97
58) Methyl methacrylate	9.577	41	79517	54.5803	ug/Kg	99
59) 1,4-Dioxane	9.632	88	24379	1111.3022	ug/Kg	89
60) 2-Chloroethyl vinyl ether	9.888	63	728	212.5011	ug/Kg#	1
61) cis-1,3-Dichloropropene	10.022	75	132846	57.5184	ug/Kg	97
64) Toluene	10.223	91	355982	56.0391	ug/Kg	99
65) 2-Nitropropane	10.430	41	119311	277.5245	ug/Kg	99
66) 4-Methyl-2-pentanone	10.540	43	488308	275.5564	ug/Kg	98
67) trans-1,3-Dichloropropene	10.577	75	124306	61.3465	ug/Kg	98
68) Tetrachloroethene	10.552	166	135448	63.3107	ug/Kg	98
69) Ethyl methacrylate	10.692	69	94662	53.2733	ug/Kg	99
70) 1,1,2-Trichloroethane	10.711	83	61980	56.5742	ug/Kg	96
71) Dibromochloromethane	10.857	129	89185	55.4621	ug/Kg	99
72) 1,3-Dichloropropane	10.930	76	126811	58.5824	ug/Kg	97
73) 1,2-Dibromoethane	11.046	107	79743	56.5205	ug/Kg	97
74) 3,3-dimethyl-1-butanol	11.180	57	604776	2561.6380	ug/Kg	99
75) 2-hexanone	11.198	43	463687	282.0699	ug/Kg	98
76) 1-Chlorohexane	11.406	91	116465	55.9612	ug/Kg	98
77) Ethylbenzene	11.448	91	397113	56.6845	ug/Kg	99
78) Chlorobenzene	11.442	112	242679	56.5850	ug/Kg	100
79) 1,1,1,2-Tetrachloroethane	11.485	131	87947	57.1403	ug/Kg	99
80) m,p-Xylene	11.552	91	605184	112.0031	ug/Kg	100
81) o-Xylene	11.869	91	310033	57.2111	ug/Kg	97
82) Styrene	11.906	104	247120	59.2987	ug/Kg	98
83) Bromoform	11.948	173	54168	53.8364	ug/Kg	97
84) Isopropylbenzene	12.082	105	386726	56.1934	ug/Kg	99
87) cis-1,4-Dichloro-2-butene	12.338	53	36526	57.6354	ug/Kg	98
88) n-Propylbenzene	12.369	91	437241	55.1394	ug/Kg	100
89) Bromobenzene	12.387	156	108895	58.3803	ug/Kg	98
90) 1,1,2,2-Tetrachloroethane	12.430	83	97152	55.3680	ug/Kg	98
91) 1,3,5-Trimethylbenzene	12.497	105	316568	56.9901	ug/Kg	99
92) 2-Chlorotoluene	12.503	91	287676	55.5569	ug/Kg	98
93) trans-1,4-Dichloro-2-B...	12.552	53	33599	56.6700	ug/Kg	95
94) 1,2,3-Trichloropropane	12.534	110	29779	56.5507	ug/Kg	93
95) Cyclohexanone	12.582	55	44992	360.5708	ug/Kg	97
96) 4-Chlorotoluene	12.613	91	267239	55.3869	ug/Kg	100
97) tert-Butylbenzene	12.723	91	175575	56.3675	ug/Kg	98
98) 1,2,4-Trimethylbenzene	12.765	105	309255	55.7338	ug/Kg	97
99) Pentachloroethane	12.765	167	31177	40.9662	ug/Kg#	83
100) sec-Butylbenzene	12.844	105	407344	55.0930	ug/Kg	99
101) 4-Isopropyltoluene	12.930	119	354810	56.0546	ug/Kg	99
102) 1,3-Dichlorobenzene	13.021	146	186708	53.9656	ug/Kg	100
103) 1,2,3-Trimethylbenzene	13.070	105	321964	55.3268	ug/Kg	99
104) 1,4-Dichlorobenzene	13.082	146	190267	54.3722	ug/Kg	98
105) n-Butylbenzene	13.216	92	173080	54.9876	ug/Kg	94
106) Benzyl Chloride	13.241	126	35220	50.0403	ug/Kg	98
107) 1,2-Dichlorobenzene	13.375	146	182303	56.0835	ug/Kg	98

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193016.d
Acq On : 17 Jul 2024 5:12 pm
Operator : davidb2
Sample : ECC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 01:47:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration

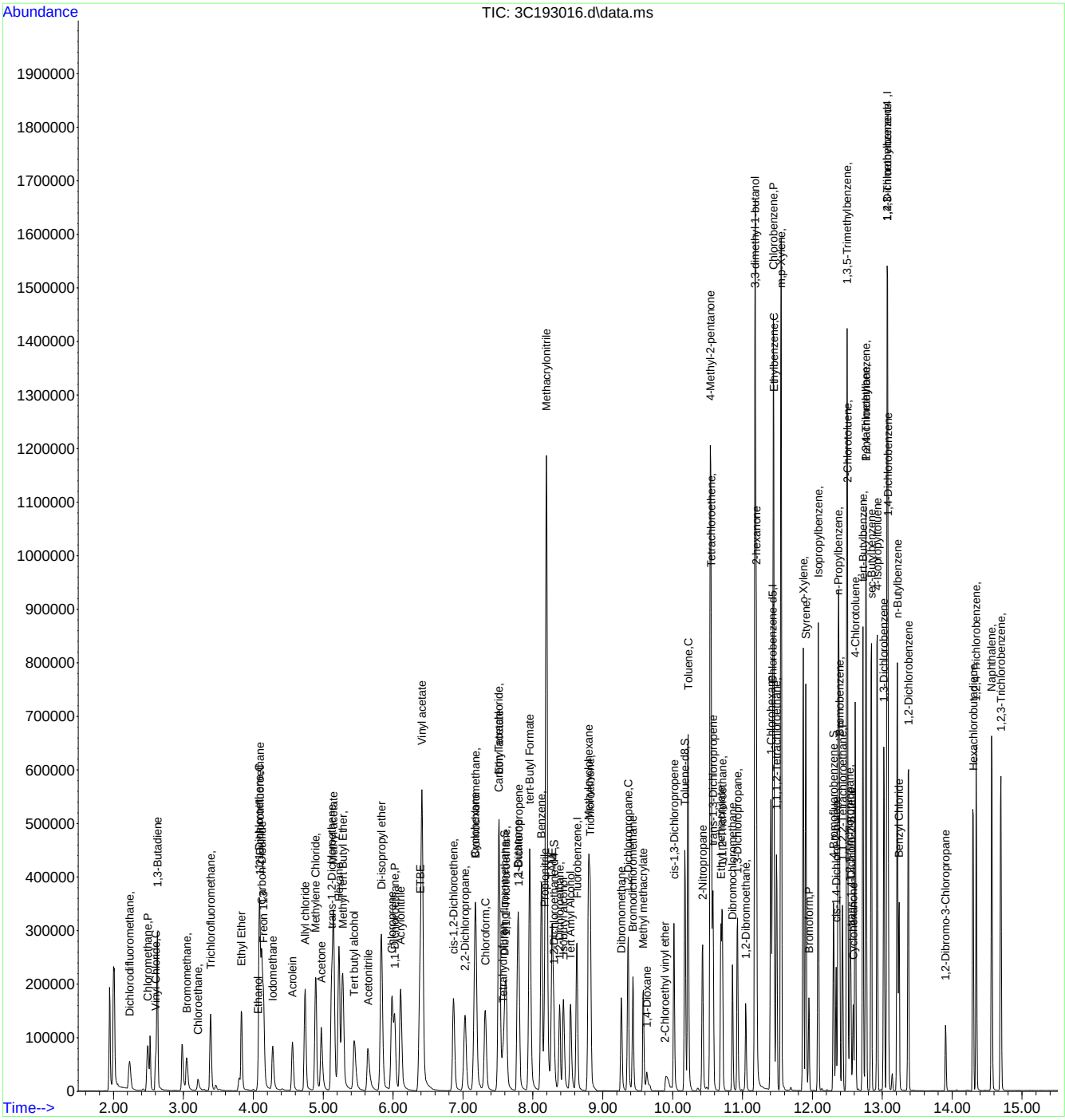
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
108) 1,2-Dibromo-3-Chloropr...	13.905	75	18992	58.6143	ug/Kg	97
109) Hexachlorobutadiene	14.302	225	74085	56.8418	ug/Kg	96
110) 1,2,4-Trichlorobenzene	14.344	180	135834	55.7849	ug/Kg	98
111) Naphthalene	14.564	128	357905	58.1114	ug/Kg	99
112) 1,2,3-Trichlorobenzene	14.698	180	137915	56.3536	ug/Kg	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1232\
Data File : 3C193016.d
Acq On : 17 Jul 2024 5:12 pm
Operator : davidb2
Sample : ECC1220-5 Inst : MSVOA19-3C
Misc : MS56069,V3C1232,5.00,,,5,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Jul 18 01:47:59 2024
Quant Method : X:\Orlando VOA\jhenelleb\2024\July 2024\07-18-2024\V3C1232\V3C1220_062724_.M
Quant Title : SW-846 Method 5035A/8260
QLast Update : Fri Jun 28 09:30:23 2024
Response via : Initial Calibration



SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Dat	06/27/2024
Column Type:	RTX-VMS
Detector:	
Instrument:	
Purge Pressure:	20 psi
Analyst:	David B

Method(s):*	8260
Method File:	V3C1220_062724_.M
Calib. Date:	06-27-2024
Acq. Method:	RESTEK
EM Voltage:	1765
Run ID:	**V3C1220**

BFB:	VS3799
ICAL/CC:	VS4004 / 057, VS4045, VS4058
VS4038, VS4039, VS4053	**(STD A)****
ICV/QC:	VS4054, VS4020, VS4031
VS4032, VS4056, VS4052	**(STD B)****
ISTD/SURR.:	VS3799

****STD [A,B]** = 100 µL each [(ICAL/CCV) , ICV/QC)]

Methanol Lot#:	205556
Dilution Vial Lot#:	426109
Data processed by:	
David B	
Sample ID verified by:	
David B	
Date Verified:	06/27/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Sample Wt. (g)	MeOH Aliq. (µL)	A.S. Pos.	Prep. Method	Work Group	RR	Comments\Manual integrations
3C192745	BFB	-	-	-	5.00	-	1	-	-	-	✓Autofind
3C192746	IC1220-1	-	-	-	5.00	-	2	-	-	-	✓1.5uL **STD A** -> 5mL +28uL MeOH
3C192747	IC1220-2	-	-	-	5.00	-	3	-	-	-	✓3uL **STD A** -> 5mL + 27uL MeOH
3C192748	IC1220-3	-	-	-	5.00	-	4	-	-	-	✓6uL **STD A** -> 5mL + 24uL MeOH
3C192749	IC1220-4	-	-	-	5.00	-	5	-	-	-	✓9uL **STD A** -> 5mL + 21uL MeOH
3C192750	ICC1220-5	-	-	-	5.00	-	6	-	-	-	✓15uL **STD A** -> 5mL + 15uL MeOH
3C192751	IC1220-6	-	-	-	5.00	-	7	-	-	-	✓30uL **STD A** -> 5mL
3C192752	IC1220-7	-	-	-	5.00	-	8	-	-	-	✓60uL **STD A** -> 5mL
3C192753	BLANK	-	-	-	5.00	-	9	-	-	-	✓
3C192754	ICV1220-5	-	-	-	5.00	-	10	-	-	-	✓17.5uL **STD B** -> 5mL + 13uL MeOH
3C192755	ICV1220-4	-	-	-	5.00	-	11	-	-	-	✓10.5uL **STD B** -> 5mL + 20uL MeOH (DID NOT NEED/USE)

Matrix: Designate "S" for soil, "H2O" for DI vials, "MeoH" for Methanol vials, "NaHSO4" for Sodium Bisulfate vials, "W" for Wipe

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

Dat	07/17/2024
Column Type:	RTX-VMS
Detector:	
Instrument:	
Purge Pressure:	20 psi
Analyst:	David B

Method(s):*	8260
Method File:	V3C1220_062724_.M
Calib. Date:	06-27-2024
Acq. Method:	RESTEK
EM Voltage:	1765
Run ID:	**V3C1232**

BFB:	VS3799
ICAL/CC:	VS4066 / 057, VS4045, VS4058
VS4072, VS4078, VS4088	**(STD A)****
ICV/QC:	VS4054, VS4086, VS4064
VS4067, VS4089, VS4087	**(STD B)****
ISTD/SURR.:	VS3799

****STD [A,B]** = 100 µL each [(ICAL/CCV) , ICV/QC)]

Methanol Lot#:	205556
Dilution Vial Lot#:	426109
Data processed by:	
David B	
Sample ID verified by:	
David B	
Date Verified:	07/17/2024

Data File	Sample ID	Dil.	Vial #	Matrix	Sample Wt. (g)	MeOH Aliq. (µL)	A.S. Pos.	Prep. Method	Work Group	RR	Comments\Manual integrations
3C193000	BFB	-	-	-	5.00	-	1	-	-	-	✓Autofind
3C193001	CC1220-5	-	-	-	5.00	-	3	-	-	-	✓15uL **STD A** -> 5mL
3C193002	BS	-	-	-	5.00	-	4	-	-	-	✓17.5uL **STD B** -> 5mL
3C193003	MB	-	-	-	5.00	-	5	-	-	-	✓
3C193005	FC17174-1	1x	G35846	S (H2O)	4.91	-	5	PT	MS57072	-	✓ND
3C193006	FC17174-2	1x	G35851	S (H2O)	4.85	-	6	PT	MS57072	-	✓ND
3C193007	FC17176-1	1x	G35864	S (H2O)	4.73	-	7	PT	MS57072	-	✓ND
3C193008	FC17179-1	1x	G35867	S (H2O)	4.74	-	8	PT	MS57072	-	✓ND
3C193009	FC17179-2	1x	G35871	S (H2O)	6.23	-	9	PT	MS57072	-	✓ND
3C193010	**FC17088-4**	200x	G35818	S (H2O)	5.74	25	10	PT	MS57072	**200x**	**VC hit**
3C193011	FC17088-1	1000x	G35809	S (H2O)	5.68	5	11	PT	MS57072	-	✓E-combine
3C193012	FC17088-2	1000x	G35812	S (H2O)	6.23	5	12	PT	MS57072	-	✓E-combine
3C193013	FC17088-3	1000x	G35815	S (H2O)	5.1	5	13	PT	MS57072	-	✓E-combine
3C193014	FC17088-3MS	1000x	G35815	S (H2O)	5.1	5	14	PT	MS57072	-	✓17.5uL **STD B** -> 5mL
3C193015	FC17088-3MSD	1000x	G35815	S (NaHSO4)	5.1	5	15	PT	MS57072	-	✓17.5uL **STD B** -> 5mL
3C193016	ECC1220-5	-	-	-	-	-	16	-	-	-	✓15uL STD A -> 5mL

Matrix: Designate "S" for soil, "H2O" for DI vials, "MeoH" for Methanol vials, "NaHSO4" for Sodium Bisulfate vials, "W" for Wipe

Manual Integration Rational SOP QA029: MP Missed Peak, OP Overlapping Peak, SP Split Peak, PDB Poorly Defined Baseline, BR Baseline Ripple, PII Poor Instrument

General Chemistry

QC Data Summaries

Includes the following where applicable:

- Percent Solids Raw Data Summary

Percent Solids Raw Data Summary

Job Number: FC17179
Account: AHTNACAS Ahtna Global, LLC
Project: Soil Samples - Former Fort Ord, CA

Sample: FC17179-1 **Analyzed:** 17-JUL-24 by SS **Method:** SM19 2540G
ClientID: 2429MOU2087F

Wet Weight (Total)	13.38	g
Tare Weight	2.52	g
Dry Weight (Total)	11.8	g
Moisture, Percent	14.5	%

Sample: FC17179-2 **Analyzed:** 17-JUL-24 by SS **Method:** SM19 2540G
ClientID: 2429MOU2088F

Wet Weight (Total)	15.55	g
Tare Weight	2.45	g
Dry Weight (Total)	13.26	g
Moisture, Percent	17.5	%

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21187.001.01.0000 (FFO 2024 Q3) OU2

SGS Job Number: FC17980

Sampling Date: 08/13/24

Report to:

Ahtna Global, LLC
9699 Blue Larkspur Lane Suite 203
Monterey, CA 93940
dlieberman@ahtna.net; mfisler@ahtna.net;
hdillon@ahtna.net; eschmidt@ahtna.net;
ATTN: Derek Lieberman

Total number of pages in report: **178**

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: Elvin Kumar 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

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SGS North America Inc.

Sample Summary

Ahtna Global, LLC

Job No: FC17980

Fort Ord Groundwater Monitoring
Project No: 21187.001.01.0000 (FFO 2024 Q3) OU2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC17980-1	08/13/24	09:10		08/15/24	AQ	Ground Water	2433MOU2038F
FC17980-2	08/13/24	09:14		08/15/24	AQ	Ground Water	2433MOU2039F
FC17980-3	08/13/24	09:18		08/15/24	AQ	Ground Water	2433MOU2040F
FC17980-4	08/13/24	09:22		08/15/24	AQ	Ground Water	2433MOU2041F
FC17980-5	08/13/24	09:25		08/15/24	AQ	Ground Water	2433MOU2042F
FC17980-6	08/13/24	09:28		08/15/24	AQ	Ground Water	2433MOU2043D
FC17980-7	08/13/24	09:31		08/15/24	AQ	Ground Water	2433MOU2044F
FC17980-8	08/13/24	09:34		08/15/24	AQ	Ground Water	2433MOU2045F
FC17980-9	08/13/24	09:37		08/15/24	AQ	Ground Water	2433MOU2046F
FC17980-10	08/13/24	09:40		08/15/24	AQ	Ground Water	2433MOU2047F
FC17980-11	08/13/24	09:43		08/15/24	AQ	Field Blank Water	2433M0BW053C

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Ahtna Global, LLC **Job No:** FC17980

Site: Fort Ord Groundwater Monitoring **Report Date:** 8/20/2024 11:00:59

On 08/15/2024, 10 Sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc - Orlando. at a maximum corrected temperature of 3.2 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC17980 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 BY SIM

Matrix: AQ **Batch ID:** VZ3078

All samples were analyzed within the recommended method holding time.

All method blanks for this batch meet method specific criteria.

Sample(s) FC17979-17MS, FC17979-17MSD were used as the QC samples indicated.

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: FC17980
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 08/13/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC17980-1	**2433MOU2038F**					
Benzene		0.14 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.0	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.24 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-2	**2433MOU2039F**					
Benzene		0.13 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.0	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.26 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-3	**2433MOU2040F**					
Benzene		0.13 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.2	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.24 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-4	**2433MOU2041F**					
Benzene		0.13 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.3	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.25 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-5	**2433MOU2042F**					
Benzene		0.12 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.3	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.25 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-6	**2433MOU2043D**					
Benzene		0.12 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.2	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.24 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-7	**2433MOU2044F**					
Benzene		0.12 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.3	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.25 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-8	**2433MOU2045F**					
Benzene		0.13 J	0.50	0.25	ug/l	SW846 8260D BY SIM

Summary of Hits

Job Number: FC17980
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 08/13/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
Carbon Tetrachloride		1.3	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.25 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-9	**2433MOU2046F**					
Benzene		0.15 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.2	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.24 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-10	**2433MOU2047F**					
Benzene		0.19 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Carbon Tetrachloride		1.2	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.24 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC17980-11	**2433M0BW053C**					

No hits reported in this sample.

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	2433MOU2038F		
Lab Sample ID:	FC17980-1	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76467.D	1	08/19/24 13:01	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.14	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.0	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.24	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2039F		
Lab Sample ID:	FC17980-2	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76468.D	1	08/19/24 13:24	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.13	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.0	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.26	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2040F		
Lab Sample ID:	FC17980-3	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76469.D	1	08/19/24 13:46	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.13	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.24	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2041F		
Lab Sample ID:	FC17980-4	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76470.D	1	08/19/24 14:09	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.13	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

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:	2433MOU2042F		
Lab Sample ID:	FC17980-5	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76471.D	1	08/19/24 14:32	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.12	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	110%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

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:	2433MOU2043D		
Lab Sample ID:	FC17980-6	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76472.D	1	08/19/24 14:55	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.12	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.24	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	112%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2044F		
Lab Sample ID:	FC17980-7	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76473.D	1	08/19/24 15:18	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.12	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2045F		
Lab Sample ID:	FC17980-8	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76474.D	1	08/19/24 15:41	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.13	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	116%		74-125%
2037-26-5	Toluene-D8	96%		88-111%

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:	2433MOU2046F		
Lab Sample ID:	FC17980-9	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76475.D	1	08/19/24 16:04	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.15	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.24	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	113%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433MOU2047F		
Lab Sample ID:	FC17980-10	**Date Sampled:**	08/13/24
Matrix:	AQ - Ground Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76476.D	1	08/19/24 16:27	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.19	0.50	0.25	0.10	ug/l	J
56-23-5	Carbon Tetrachloride	1.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.24	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	111%		74-125%
2037-26-5	Toluene-D8	97%		88-111%

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:	2433M0BW053C		
Lab Sample ID:	FC17980-11	**Date Sampled:**	08/13/24
Matrix:	AQ - Field Blank Water	**Date Received:**	08/15/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z76460.D	1	08/19/24 10:20	CS	n/a	n/a	VZ3078
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	0.10	ug/l	
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	107%		74-125%
2037-26-5	Toluene-D8	98%		88-111%

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

Ahtna

Cooler No.:		of	

COC No: 081324-OU2-21177

Task Desc: FFO2024Q3_Team5

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

Lab Name: SGS North America Inc. - Orlando	**Site ID #:** FFORD	**Sampler:** 1741469	Filtered
Lab Address:	**Project #:** 21177.000.01.0000	**Sampling Company:** Ahtna	
Lab PM: Elvin Kumar	**Site Address:** FFO, Marina, CA 93933	**Address:** 9630 Blue Larkspur Ln Ste 201 Monterey	Preserve HCL
Lab Phone/Fax: (407) 425-6700	**Site PM Name:** Derek Lieberman	**Sampling Company Phone:** (831) 287-5250	
Lab PM Email:	**Site Phone/Fax**	**Sampling Team Number:** 5	
Applicable Lab Quote:	**Site PM Email:** dlieberman@ahtna.net	**Reimbursable Project?**	Analysis SW8260D
Turnaround Time: 10 Business Days	**Turnaround Standard:** Standard	**Send EDD/Hard Copy To:** labs@ahtna.net, dlieberman@ahtna.net	

Items No.	Sample ID	Sample Location	Matrix	Depth	Grab/Comp	Sample Type	Sample Date Time	# of Containers	Comments Lab I.D.	SW8260D
1	2433MOU2038F		WG	175 - 175 ft btoc	G	NS1	08/13/2024 09:10	3	.	X
2	2433MOU2039F		WG	180 - 180 ft btoc	G	NS1	08/13/2024 09:14	3	.	X
3	2433MOU2040F		WG	185 - 185 ft btoc	G	NS1	08/13/2024 09:18	3	.	X
4	2433MOU2041F		WG	190 - 190 ft btoc	G	NS1	08/13/2024 09:22	3	.	X
5	2433MOU2042F		WG	195 - 195 ft btoc	G	NS1	08/13/2024 09:25	3	.	X
6	2433MOU2043D		WG	195 - 195 ft btoc	G	FD1	08/13/2024 09:28	3	.	X

INITIAL ASSESSMENT
LABEL VERIFICATION

3.4 IR#1

Sample Reason:

Additional Comments/Special Instructions:

OU2

RELINQUISHED BY / AFFILIATION	Date Time	ACCEPTED BY / AFFILIATION	Date Time
/ Ahtna	8.14.24 1300		
		08/15/24	1015

SHIPPING METHOD: (mark as appropriate)	SAMPLER NAME AND SIGNATURE	Date Time

Sample Receipt Conditions

Tempurature in °C	Sample on Ice?	Sample Intact?	Trip Blank?
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No
☐Yes ☐No	☐Yes ☐No	☐Yes ☐No	☐Yes ☐No

Ahtna

Cooler No.:		of	

Chain-of-Custody / Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed and accurate

COC No: 081324-OU2-21177

Task Desc: FFO2024Q3_Team5

Lab Name: SGS North America Inc. - Orlando	**Site ID #:** FFORD	**Sampler:** 1741469	Filtered
Lab Address:	**Project #:** 21177.000.01.0000	**Sampling Company:** Ahtna	
Lab PM: Elvin Kumar	**Site Address:** FFO, Marina, CA 93933	**Address:** 9AGRBlvd Larkspur Ln Ste 201 Monterey	Preserve: HCL
Lab Phone/Fax: (407) 425-6700	**Site PM Name:** Derek Lieberman	**Sampling Company Phone:** (831) 287-5250	
Lab PM Email:	**Site Phone/Fax**	**Sampling Team Number:** 5	
Applicable Lab Quote:	**Site PM Email:** dlieberman@ahtna.net	**Reimbursable Project?**	Analysis: SW8260D
Turnaround Time: 10 Business Days	**Turnaround Standard:** Standard	**Send EDD/Hard Copy To:** labs@ahtna.net, dlieberman@ahtna.net	

Items No.	Sample ID	Sample Location	Matrix	Depth	G=Grab C=Comp	Sample Type	Sample Date Time	# of Containers	Comments Lab I.D.	SW8260D
7	2433MOU2044F		WG	200 - 200 ft btoc	G	NS1	08/13/2024 09:31	3	.	X
8	2433MOU2045F		WG	205 - 205 ft btoc	G	NS1	08/13/2024 09:34	3	.	X
9	2433MOU2046F		WG	210 - 210 ft btoc	G	NS1	08/13/2024 09:37	3	.	X
10	2433MOU2047F		WG	215 - 215 ft btoc	G	NS1	08/13/2024 09:40	3	.	X
11	2433M0BW053C		WQ		G	FB1	08/13/2024 09:43	3	.	X

Sample Reason:

Additional Comments/Special Instructions:

OU2

RELINQUISHED BY / AFFILIATION	Date Time	ACCEPTED BY / AFFILIATION	Date Time	Sample Receipt Conditions
S R G / Ahtna	8.14.24 1345			☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No
				☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No
		A C	08/15/24 1015	☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No
				☐Yes ☐No ☐Yes ☐No ☐Yes ☐No ☐Yes ☐No

SHIPPING METHOD: (mark as appropriate)	SAMPLER NAME AND SIGNATURE	Date Time	Tempurature in °C	Sample on Ice?	Sample Intact?	Trip Blank?

SGS - Orlando Sample Receipt Summary

Job Number: fc17980 **Client:** AHTNA **Project:** OU2 - FFO2024Q3

Date / Time Received: 8/15/2024 10:15:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 777942189936

Cooler Temps (Raw Measured) °C: Cooler 1: (3.4);

Cooler Temps (Corrected) °C: Cooler 1: (3.2);

Cooler Informatio	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 analysi	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample labe	☑		☐	
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: 8/15/2024 12:44:26 PM Reviewer: TW Date: 08/15/24

QC Evaluation: DOD QSM5.x Limits

Job Number: FC17980
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 08/13/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ3078	SW846 8260D BY SIM						
VZ3078-BS	71-43-2	Benzene	BSP	REC	112	%	79-120
VZ3078-BS	56-23-5	Carbon Tetrachloride	BSP	REC	118	%	72-136
VZ3078-BS	67-66-3	Chloroform	BSP	REC	114	%	79-124
VZ3078-BS	75-34-3	1,1-Dichloroethane	BSP	REC	110	%	77-125
VZ3078-BS	107-06-2	1,2-Dichloroethane	BSP	REC	112	%	73-128
VZ3078-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	116	%	78-123
VZ3078-BS	78-87-5	1,2-Dichloropropane	BSP	REC	110	%	78-122
VZ3078-BS	75-09-2	Methylene Chloride	BSP	REC	106	%	74-124
VZ3078-BS	127-18-4	Tetrachloroethylene	BSP	REC	114	%	74-129
VZ3078-BS	79-01-6	Trichloroethylene	BSP	REC	116	%	79-123
VZ3078-BS	75-01-4	Vinyl Chloride	BSP	REC	100	%	58-137
VZ3078-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	95	%	81-118
VZ3078-BS	2037-26-5	Toluene-D8	BSP	SURR	94	%	89-112
FC17979-17MS*	71-43-2	Benzene	MS	REC	112	%	79-120
FC17979-17MS*	56-23-5	Carbon Tetrachloride	MS	REC	126	%	72-136
FC17979-17MS*	67-66-3	Chloroform	MS	REC	116	%	79-124
FC17979-17MS*	75-34-3	1,1-Dichloroethane	MS	REC	111	%	77-125
FC17979-17MS*	107-06-2	1,2-Dichloroethane	MS	REC	113	%	73-128
FC17979-17MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	104	%	78-123
FC17979-17MS*	78-87-5	1,2-Dichloropropane	MS	REC	113	%	78-122
FC17979-17MS*	75-09-2	Methylene Chloride	MS	REC	109	%	74-124
FC17979-17MS*	127-18-4	Tetrachloroethylene	MS	REC	104	%	74-129
FC17979-17MS*	79-01-6	Trichloroethylene	MS	REC	115	%	79-123
FC17979-17MS*	75-01-4	Vinyl Chloride	MS	REC	96	%	58-137
FC17979-17MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	107	%	81-118
FC17979-17MS*	2037-26-5	Toluene-D8	MS	SURR	86 [a]	%	89-112
FC17979-17MSD*	71-43-2	Benzene	MSD	REC	113	%	79-120
FC17979-17MSD*	71-43-2	Benzene	MSD	RPD	1	%	20
FC17979-17MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	120	%	72-136
FC17979-17MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	4	%	20
FC17979-17MSD*	67-66-3	Chloroform	MSD	REC	114	%	79-124
FC17979-17MSD*	67-66-3	Chloroform	MSD	RPD	2	%	20
FC17979-17MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	112	%	77-125
FC17979-17MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	1	%	20
FC17979-17MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	112	%	73-128
FC17979-17MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	1	%	20
FC17979-17MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	108	%	78-123
FC17979-17MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	4	%	20
FC17979-17MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	114	%	78-122
FC17979-17MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	1	%	20
FC17979-17MSD*	75-09-2	Methylene Chloride	MSD	REC	114	%	74-124
FC17979-17MSD*	75-09-2	Methylene Chloride	MSD	RPD	5	%	20

* Sample used for QC is not from job FC17980

QC Evaluation: DOD QSM5.x Limits

Job Number: FC17980
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 08/13/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC17979-17MSD*	127-18-4	Tetrachloroethylene	MSD	REC	102	%	74-129
FC17979-17MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	1	%	20
FC17979-17MSD*	79-01-6	Trichloroethylene	MSD	REC	112	%	79-123
FC17979-17MSD*	79-01-6	Trichloroethylene	MSD	RPD	2	%	20
FC17979-17MSD*	75-01-4	Vinyl Chloride	MSD	REC	104	%	58-137
FC17979-17MSD*	75-01-4	Vinyl Chloride	MSD	RPD	7	%	20
FC17979-17MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	103	%	81-118
FC17979-17MSD*	2037-26-5	Toluene-D8	MSD	SURR	88 [a]	%	89-112
VZ3078-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	107	%	81-118
VZ3078-MB	2037-26-5	Toluene-D8	MB	SURR	99	%	89-112
FC17980-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FC17980-1	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FC17980-2	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	113	%	81-118
FC17980-3	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FC17980-4	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC17980-5	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	110	%	81-118
FC17980-5	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112
FC17980-6	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	112	%	81-118
FC17980-6	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-7	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	113	%	81-118
FC17980-7	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-8	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	116	%	81-118
FC17980-8	2037-26-5	Toluene-D8	SAMP	SURR	96	%	89-112
FC17980-9	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	113	%	81-118
FC17980-9	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-10	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	111	%	81-118
FC17980-10	2037-26-5	Toluene-D8	SAMP	SURR	97	%	89-112
FC17980-11	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	107	%	81-118
FC17980-11	2037-26-5	Toluene-D8	SAMP	SURR	98	%	89-112

(a) Outside DOD QSM control limits.

* Sample used for QC is not from job FC17980

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: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3078-MB	Z76459.D	1	08/19/24	CS	n/a	n/a	VZ3078

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC17980-1, FC17980-2, FC17980-3, FC17980-4, FC17980-5, FC17980-6, FC17980-7, FC17980-8, FC17980-9, FC17980-10, FC17980-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.10	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.10	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	ND	2.0	0.50	ug/l	
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	107%	74-125%
2037-26-5	Toluene-D8	99%	88-111%

Blank Spike Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3078-BS	Z76457.D	1	08/19/24	CS	n/a	n/a	VZ3078

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC17980-1, FC17980-2, FC17980-3, FC17980-4, FC17980-5, FC17980-6, FC17980-7, FC17980-8, FC17980-9, FC17980-10, FC17980-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	5	5.6	112	81-122
56-23-5	Carbon Tetrachloride	5	5.9	118	76-136
67-66-3	Chloroform	5	5.7	114	80-124
75-34-3	1,1-Dichloroethane	5	5.5	110	81-122
107-06-2	1,2-Dichloroethane	5	5.6	112	75-125
156-59-2	cis-1,2-Dichloroethylene	5	5.8	116	78-120
78-87-5	1,2-Dichloropropane	5	5.5	110	76-124
75-09-2	Methylene Chloride	5	5.3	106	69-135
127-18-4	Tetrachloroethylene	5	5.7	114	76-135
79-01-6	Trichloroethylene	5	5.8	116	81-126
75-01-4	Vinyl Chloride	5	5.0	100	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	95%	74-125%
2037-26-5	Toluene-D8	94%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC17979-17MS	Z76480.D	5	08/19/24	CS	n/a	n/a	VZ3078
FC17979-17MSD	Z76481.D	5	08/19/24	CS	n/a	n/a	VZ3078
FC17979-17	Z76462.D	1	08/19/24	CS	n/a	n/a	VZ3078

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC17980-1, FC17980-2, FC17980-3, FC17980-4, FC17980-5, FC17980-6, FC17980-7, FC17980-8, FC17980-9, FC17980-10, FC17980-11

CAS No.	Compound	FC17979-17 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.50 U		25	27.9	112	25	28.3	113	1	81-122/14
56-23-5	Carbon Tetrachloride	0.50 U		25	31.4	126	25	30.1	120	4	76-136/23
67-66-3	Chloroform	0.34	J	25	29.3	116	25	28.8	114	2	80-124/15
75-34-3	1,1-Dichloroethane	0.64		25	28.3	111	25	28.6	112	1	81-122/15
107-06-2	1,2-Dichloroethane	2.3		25	30.6	113	25	30.3	112	1	75-125/14
156-59-2	cis-1,2-Dichloroethylene	1.3		25	27.2	104	25	28.2	108	4	78-120/15
78-87-5	1,2-Dichloropropane	0.50 U		25	28.2	113	25	28.4	114	1	76-124/14
75-09-2	Methylene Chloride	2.0 U		25	27.2	109	25	28.6	114	5	69-135/16
127-18-4	Tetrachloroethylene	1.5		25	27.4	104	25	27.0	102	1	76-135/16
79-01-6	Trichloroethylene	3.7		25	32.4	115	25	31.7	112	2	81-126/15
75-01-4	Vinyl Chloride	0.10 U		25	24.1	96	25	25.9	104	7	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC17979-17	Limits
17060-07-0	1,2-Dichloroethane-D4	107%	103%	116%	74-125%
2037-26-5	Toluene-D8	86%* [a]	88% [a]	98%	88-111%

(a) Outside DOD QSM control limits.

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3076-BFB
Lab File ID: Z76397.D
Instrument ID: GCMSZ
Injection Date: 08/15/24
Injection Time: 09:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	104717	100.0		Pass
96	5.0 - 9.0% of mass 95	6818	6.51		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 200.0% of mass 95	103397	98.7		Pass
175	5.0 - 9.0% of mass 174	7830	7.48	(7.57) [a]	Pass
176	95.0 - 105.0% of mass 174	100920	96.4	(97.6) [a]	Pass
177	5.0 - 10.0% of mass 176	6663	6.36	(6.60) [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
VZ3076-IC3076	Z76399.D	08/15/24	10:17	00:50	Initial cal 1
VZ3076-IC3076	Z76400.D	08/15/24	10:40	01:13	Initial cal 2
VZ3076-IC3076	Z76401.D	08/15/24	11:03	01:36	Initial cal 3
VZ3076-IC3076	Z76402.D	08/15/24	11:26	01:59	Initial cal 4
VZ3076-ICC3076	Z76403.D	08/15/24	11:49	02:22	Initial cal 5
VZ3076-IC3076	Z76404.D	08/15/24	12:12	02:45	Initial cal 6
VZ3076-IC3076	Z76405.D	08/15/24	12:35	03:08	Initial cal 7
VZ3076-ICV3076	Z76407.D	08/15/24	13:24	03:57	Initial cal verification 5
VZ3076-BS	Z76408.D	08/15/24	14:14	04:47	Blank Spike
VZ3076-MB	Z76410.D	08/15/24	15:08	05:41	Method Blank
FC17922-2	Z76411.D	08/15/24	15:39	06:12	(used for QC only; not part of job FC17980)
ZZZZZZ	Z76412.D	08/15/24	16:02	06:35	(unrelated sample)
ZZZZZZ	Z76413.D	08/15/24	16:25	06:58	(unrelated sample)
ZZZZZZ	Z76414.D	08/15/24	16:48	07:21	(unrelated sample)
ZZZZZZ	Z76416.D	08/15/24	17:34	08:07	(unrelated sample)
ZZZZZZ	Z76417.D	08/15/24	17:57	08:30	(unrelated sample)
ZZZZZZ	Z76418.D	08/15/24	18:20	08:53	(unrelated sample)
ZZZZZZ	Z76419.D	08/15/24	18:43	09:16	(unrelated sample)
ZZZZZZ	Z76420.D	08/15/24	19:06	09:39	(unrelated sample)
ZZZZZZ	Z76421.D	08/15/24	19:29	10:02	(unrelated sample)
FC17922-2MS	Z76422.D	08/15/24	19:51	10:24	Matrix Spike
FC17922-2MSD	Z76423.D	08/15/24	20:14	10:47	Matrix Spike Duplicate
VZ3076-ECC3076	Z76424.D	08/15/24	20:37	11:10	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3078-BFB
Lab File ID: Z76454.D
Instrument ID: GCMSZ
Injection Date: 08/19/24
Injection Time: 07:10

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	117781	100.0		Pass
96	5.0 - 9.0% of mass 95	8039	6.83		Pass
173	Less than 2.0% of mass 174	0	0.00	(0.00) [a]	Pass
174	50.0 - 200.0% of mass 95	116139	98.6		Pass
175	5.0 - 9.0% of mass 174	8695	7.38	(7.49) [a]	Pass
176	95.0 - 105.0% of mass 174	113157	96.1	(97.4) [a]	Pass
177	5.0 - 10.0% of mass 176	7358	6.25	(6.50) [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
VZ3078-CC3076	Z76456.D	08/19/24	08:00	00:50	Continuing cal 5
VZ3078-BS	Z76457.D	08/19/24	08:31	01:21	Blank Spike
VZ3078-MB	Z76459.D	08/19/24	09:45	02:35	Method Blank
FC17980-11	Z76460.D	08/19/24	10:20	03:10	2433M0BW053C
ZZZZZZ	Z76461.D	08/19/24	10:43	03:33	(unrelated sample)
FC17979-17	Z76462.D	08/19/24	11:06	03:56	(used for QC only; not part of job FC17980)
ZZZZZZ	Z76463.D	08/19/24	11:29	04:19	(unrelated sample)
ZZZZZZ	Z76464.D	08/19/24	11:52	04:42	(unrelated sample)
ZZZZZZ	Z76465.D	08/19/24	12:15	05:05	(unrelated sample)
ZZZZZZ	Z76466.D	08/19/24	12:38	05:28	(unrelated sample)
FC17980-1	Z76467.D	08/19/24	13:01	05:51	2433MOU2038F
FC17980-2	Z76468.D	08/19/24	13:24	06:14	2433MOU2039F
FC17980-3	Z76469.D	08/19/24	13:46	06:36	2433MOU2040F
FC17980-4	Z76470.D	08/19/24	14:09	06:59	2433MOU2041F
FC17980-5	Z76471.D	08/19/24	14:32	07:22	2433MOU2042F
FC17980-6	Z76472.D	08/19/24	14:55	07:45	2433MOU2043D
FC17980-7	Z76473.D	08/19/24	15:18	08:08	2433MOU2044F
FC17980-8	Z76474.D	08/19/24	15:41	08:31	2433MOU2045F
FC17980-9	Z76475.D	08/19/24	16:04	08:54	2433MOU2046F
FC17980-10	Z76476.D	08/19/24	16:27	09:17	2433MOU2047F
ZZZZZZ	Z76477.D	08/19/24	16:50	09:40	(unrelated sample)
ZZZZZZ	Z76478.D	08/19/24	17:13	10:03	(unrelated sample)
ZZZZZZ	Z76479.D	08/19/24	17:36	10:26	(unrelated sample)
FC17979-17MS	Z76480.D	08/19/24	17:59	10:49	Matrix Spike
FC17979-17MSD	Z76481.D	08/19/24	18:23	11:13	Matrix Spike Duplicate
VZ3078-ECC3076	Z76482.D	08/19/24	18:46	11:36	Ending cal 5

Instrument Performance Check (BFB)

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample:	VZ3078-BFB	**Injection Date:**	08/19/24
Lab File ID:	Z76454.D	**Injection Time:**	07:10
Instrument ID:	GCMSZ		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
VZ3079-CC3076	Z76485.D	08/20/24	08:05	24:55	Continuing cal 5

Internal Standard Area Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Check Std:	VZ3078-CC3076	**Injection Date:**	08/19/24
Lab File ID:	Z76456.D	**Injection Time:**	08:00
Instrument ID:	GCMSZ	**Method:**	SW846 8260D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	13822	7.89	14697	10.98
Check Std [b]	12472	7.89	14272	10.97
Upper Limit [c]	24944	8.06	28544	11.14
Lower Limit [d]	6236	7.72	7136	10.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ3078-BS	12578	7.89	14577	10.98
VZ3078-MB	10609	7.89	12063	10.98
FC17980-11	10717	7.89	12290	10.98
ZZZZZZ	10540	7.89	12159	10.98
FC17979-17	10187	7.89	11819	10.98
ZZZZZZ	10413	7.89	11966	10.98
ZZZZZZ	9862	7.89	11515	10.98
ZZZZZZ	9674	7.89	11182	10.98
ZZZZZZ	9747	7.89	11231	10.98
FC17980-1	10867	7.89	11279	10.98
FC17980-2	10818	7.89	11122	10.98
FC17980-3	10996	7.89	11343	10.98
FC17980-4	10548	7.89	10781	10.98
FC17980-5	10925	7.89	11131	10.98
FC17980-6	10883	7.89	11262	10.98
FC17980-7	10847	7.89	11248	10.98
FC17980-8	10660	7.89	11187	10.98
FC17980-9	10984	7.89	11205	10.98
FC17980-10	10964	7.89	11211	10.98
ZZZZZZ	9932	7.90	11086	10.98
ZZZZZZ	9897	7.89	11286	10.98
ZZZZZZ	9853	7.89	11243	10.98
FC17979-17MS	11509	7.89	14104	10.98
FC17979-17MSD	12150	7.89	14628	10.98
VZ3078-ECC3076	13759	7.89	16066	10.98

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5

(a) Initial Cal is: VZ3076-ICC3076 Z76403.D 08/15/24 11:49
(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.

Surrogate Recovery Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Method: SW846 8260D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FC17980-1	Z76467.D	112	97
FC17980-2	Z76468.D	110	97
FC17980-3	Z76469.D	113	97
FC17980-4	Z76470.D	110	98
FC17980-5	Z76471.D	110	98
FC17980-6	Z76472.D	112	97
FC17980-7	Z76473.D	113	97
FC17980-8	Z76474.D	116	96
FC17980-9	Z76475.D	113	97
FC17980-10	Z76476.D	111	97
FC17980-11	Z76460.D	107	98
FC17979-17MS	Z76480.D	107	86* [a]
FC17979-17MSD	Z76481.D	103	88 [a]
VZ3078-BS	Z76457.D	95	94
VZ3078-MB	Z76459.D	107	99

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

(a) Outside DOD QSM control limits.

Initial Calibration Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Sample: VZ3076-ICC3076
Lab FileID: Z76403.D

Response Factor Report MSVOA15-Z

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B
Last Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

Calibration Files
1 =Z76399.D 2 =Z76400.D 3 =Z76401.D 4 =Z76402.D
5 =Z76403.D 6 =Z76404.D 7 =Z76405.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Vinyl Chloride	0.510	0.327	0.281	0.282	0.259	0.247	0.237	0.306	30.88
3) Chloromethane	0.906	0.512	0.432	0.436	0.395	0.371	0.357	0.487	39.39
4) 1,1-Dichloroethen	1.407	0.877	0.816	0.701	0.645	0.605	0.581	0.805	35.67
5) Methylene Chlorid	5.201	1.456	0.918	0.707	0.600	0.543	0.516	1.420	119.62
6) trans-1,2-Dichlor	1.225	0.731	0.718	0.624	0.589	0.556	0.540	0.712	33.46
7) 1,1-Dichloroethan	1.608	0.978	0.945	0.801	0.745	0.699	0.678	0.922	35.13
8) cis-1,2-Dichloroe	0.879	0.529	0.514	0.457	0.437	0.420	0.416	0.522	31.36
9) Chloroform	2.245	1.279	1.273	1.047	0.950	0.879	0.842	1.216	40.00
10) Carbon Tetrachlor	1.635	1.064	1.021	0.872	0.805	0.742	0.714	0.979	32.49
11) 1,1,1-Trichloroet	1.977	1.175	1.171	0.998	0.912	0.847	0.809	1.127	35.64
12) Benzene	2.263	1.329	1.297	1.182	1.199	1.175	1.180	1.375	28.84
13)S 1,2-Dichloroethan	0.522	0.530	0.532	0.483	0.455	0.424	0.395	0.477	11.44

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9999
Response Ratio = 0.00000 + 0.28514 *A + -0.01214 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997
Response Ratio = 0.00000 + 0.43868 *A + -0.02092 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996
Response Ratio = 0.00000 + 0.72231 *A + -0.03623 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9976
Response Ratio = 0.00000 + 0.72155 *A + -0.05347 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997
Response Ratio = 0.00000 + 0.64254 *A + -0.02632 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995
Response Ratio = 0.00000 + 0.82263 *A + -0.03735 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997
Response Ratio = 0.00000 + 0.46241 *A + -0.01221 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9992
Response Ratio = 0.00000 + 1.08093 *A + -0.06170 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989
Response Ratio = 0.00000 + 0.96063 *A + -0.06607 *A^2

---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995
Response Ratio = 0.00000 + 1.03280 *A + -0.05744 *A^2

---- Linear regr., Force(0,0) ---- Coefficient = 0.9998
Response Ratio = 0.00000 + 1.19034 *A

Initial Calibration Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3076-ICC3076
Lab FileID: Z76403.D

```
14)  1,2-Dichloroethan 1.530 0.889 0.898 0.769 0.715 0.657 0.630 0.870  35.58
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9995
              Response Ratio = 0.00000 + 0.80209 *A + -0.04429 *A^2

15)  Trichloroethene   0.820 0.497 0.465 0.424 0.432 0.423 0.422 0.497  29.11
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.43638 *A + -0.00372 *A^2

16)  1,2-Dichloropropa 0.624 0.352 0.359 0.324 0.331 0.323 0.323 0.377  29.21
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.33374 *A + -0.00283 *A^2

17)  cis-1,3-Dichlorop 0.865 0.442 0.465 0.431 0.467 0.476 0.491 0.520  29.57
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9988
              Response Ratio = 0.00000 + 0.48129 *A


18) I   Chlorobenzene-d5      ----------------ISTD--------------------
19)S Toluene-d8        0.946 0.945 0.916 0.898 0.905 0.928 0.944 0.926   2.17
20)  trans-1,3-Dichlor 0.756 0.391 0.417 0.404 0.451 0.481 0.513 0.487  25.83
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 0.38351 *A + 0.03238 *A^2

21)  Tetrachloroethene 1.316 0.684 0.614 0.530 0.522 0.520 0.524 0.673  43.16
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.52334 *A

22)  1,4-Dichlorobenze 2.250 1.088 1.227 1.138 1.163 1.146 1.146 1.308  31.90
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9999
              Response Ratio = 0.00000 + 1.14860 *A

23)  1,2-Dibromo-3-Chl 0.349 0.152 0.128 0.109 0.108 0.107 0.109 0.152  58.39
            ---- Linear regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.10806 *A

------------------------------------------------------------------------------
(#) = Out of Range

          SIMCL-08-15-2024.M        Thu Aug 15 15:48:11 2024
```

Initial Calibration Verification

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Sample: VZ3076-ICV3076
Lab FileID: Z76407.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\081524\Z76407.D Vial: 11
Acq On : 15 Aug 2024 1:24 pm Operator: claudias
Sample : ICV3076-5 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B
Last Update : Thu Aug 15 13:48:20 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	104	0.00	7.89
			Amount	Calc.	%Drift			
2		Vinyl Chloride	10.000	11.126	-11.3	116	0.00	3.19
3		Chloromethane	10.000	10.854	-8.5	113	0.00	3.12
4		1,1-Dichloroethene	10.000	11.578	-15.8	120	0.00	4.57
5		Methylene Chloride	10.000	11.592	-15.9	121	0.00	5.21
6		trans-1,2-Dichloroethene	10.000	11.829	-18.3	122	0.00	5.39
7		1,1-Dichloroethane	10.000	11.410	-14.1	118	0.00	6.06
8		cis-1,2-Dichloroethene	10.000	11.880	-18.8	123	0.00	6.62
9		Chloroform	10.000	11.431	-14.3	118	0.00	6.88
10		Carbon Tetrachloride	10.000	11.763	-17.6	123	0.00	7.05
11		1,1,1-Trichloroethane	10.000	11.757	-17.6	121	0.00	7.13
12		Benzene	10.000	11.654	-16.5	121	0.00	7.49
			AvgRF	CCRF	%Dev			
13	S	1,2-Dichloroethane-d4	0.477	0.434	9.0	100	0.00	7.63
			Amount	Calc.	%Drift			
14		1,2-Dichloroethane	10.000	11.618	-16.2	119	0.00	7.70
15		Trichloroethene	10.000	11.832	-18.3	122	0.00	8.06
16		1,2-Dichloropropane	10.000	11.911	-19.1	123	0.00	8.59
17		cis-1,3-Dichloropropene	10.000	11.184	-11.8	120	0.00	9.25
			AvgRF	CCRF	%Dev			
18	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00	10.98
19	S	Toluene-d8	0.926	0.921	0.5	107	0.00	9.43
			Amount	Calc.	%Drift			
20		trans-1,3-Dichloropropene	10.000	10.530	-5.3	111	0.00	9.87
21		Tetrachloroethene	10.000	11.748	-17.5	124	0.00	9.87
22		1,4-Dichlorobenzene	10.000	11.639	-16.4	121	0.00	13.35
23		1,2-Dibromo-3-Chloropropa	10.000	11.508	-15.1	121	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z76403.D SIMCL-08-15-2024.M Thu Aug 15 15:47:58 2024

Continuing Calibration Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3078-CC3076
Lab FileID: Z76456.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\081924\Z76456.D Vial: 3
Acq On : 19 Aug 2024 8:00 am Operator: claudias
Sample : cc3076-5 Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B
Last Update : Thu Aug 15 13:48:20 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	90	0.00	7.89
			Amount	Calc.	%Drift			
2		Vinyl Chloride	10.000	10.366	-3.7	94	0.00	3.18
3		Chloromethane	10.000	10.031	-0.3	91	0.00	3.12
4		1,1-Dichloroethene	10.000	10.758	-7.6	97	0.00	4.56
5		Methylene Chloride	10.000	9.757	2.4	91	0.00	5.21
6		trans-1,2-Dichloroethene	10.000	10.812	-8.1	97	0.00	5.38
7		1,1-Dichloroethane	10.000	10.594	-5.9	95	0.00	6.05
8		cis-1,2-Dichloroethene	10.000	10.549	-5.5	95	0.00	6.62
9		Chloroform	10.000	10.927	-9.3	98	0.00	6.88
10		Carbon Tetrachloride	10.000	11.694	-16.9	106	0.00	7.05
11		1,1,1-Trichloroethane	10.000	11.194	-11.9	100	0.00	7.12
12		Benzene	10.000	10.427	-4.3	93	0.00	7.49
			AvgRF	CCRF	%Dev			
13	S	1,2-Dichloroethane-d4	0.477	0.463	2.9	92	0.00	7.62
			Amount	Calc.	%Drift			
14		1,2-Dichloroethane	10.000	10.723	-7.2	96	0.00	7.69
15		Trichloroethene	10.000	10.863	-8.6	97	0.00	8.06
16		1,2-Dichloropropane	10.000	10.353	-3.5	93	0.00	8.58
17		cis-1,3-Dichloropropene	10.000	10.019	-0.2	93	0.00	9.24
			AvgRF	CCRF	%Dev			
18	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00	10.97
19	S	Toluene-d8	0.926	0.851	8.1	91	0.00	9.43
			Amount	Calc.	%Drift			
20		trans-1,3-Dichloropropene	10.000	9.974	0.3	96	0.00	9.87
21		Tetrachloroethene	10.000	10.153	-1.5	99	0.00	9.87
22		1,4-Dichlorobenzene	10.000	10.301	-3.0	99	0.00	13.35
23		1,2-Dibromo-3-Chloropropa	10.000	10.186	-1.9	99	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z76403.D SIMCL-08-15-2024.M Mon Aug 19 11:11:53 2024

Continuing Calibration Summary

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Sample: VZ3078-ECC3076
Lab FileID: Z76482.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\081924\Z76482.D Vial: 29
Acq On : 19 Aug 2024 6:46 pm Operator: claudias
Sample : ECC3076-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B
Last Update : Thu Aug 15 13:48:20 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	100	0.00	7.89
			Amount	Calc.	%Drift			
2		Vinyl Chloride	10.000	10.548	-5.5	105	0.00	3.19
3		Chloromethane	10.000	9.485	5.2	95	0.00	3.13
4		1,1-Dichloroethene	10.000	10.057	-0.6	101	0.00	4.57
5		Methylene Chloride	10.000	10.578	-5.8	107	0.00	5.21
6		trans-1,2-Dichloroethene	10.000	10.180	-1.8	101	0.00	5.39
7		1,1-Dichloroethane	10.000	10.286	-2.9	103	0.00	6.06
8		cis-1,2-Dichloroethene	10.000	9.983	0.2	100	0.00	6.62
9		Chloroform	10.000	10.358	-3.6	103	0.00	6.88
10		Carbon Tetrachloride	10.000	10.825	-8.2	109	0.00	7.06
11		1,1,1-Trichloroethane	10.000	10.415	-4.1	104	0.00	7.13
12		Benzene	10.000	10.570	-5.7	104	0.00	7.49
			AvgRF	CCRF	%Dev			
13	S	1,2-Dichloroethane-d4	0.477	0.454	4.8	99	0.00	7.63
			Amount	Calc.	%Drift			
14		1,2-Dichloroethane	10.000	10.130	-1.3	101	0.00	7.70
15		Trichloroethene	10.000	10.848	-8.5	107	0.00	8.06
16		1,2-Dichloropropane	10.000	10.580	-5.8	104	0.00	8.59
17		cis-1,3-Dichloropropene	10.000	9.571	4.3	98	0.00	9.25
			AvgRF	CCRF	%Dev			
18	I	Chlorobenzene-d5	1.000	1.000	0.0	109	0.00	10.98
19	S	Toluene-d8	0.926	0.822	11.2	99	0.00	9.43
			Amount	Calc.	%Drift			
20		trans-1,3-Dichloropropene	10.000	9.490	5.1	102	0.00	9.87
21		Tetrachloroethene	10.000	9.510	4.9	104	0.00	9.87
22		1,4-Dichlorobenzene	10.000	9.495	5.1	103	0.00	13.36
23		1,2-Dibromo-3-Chloropropa	10.000	9.426	5.7	104	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z76403.D SIMCL-08-15-2024.M Tue Aug 20 08:07:02 2024

Run Sequence Report

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Run ID: VZ3076 **Method:** SW846 8260D BY SIM **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ3076-BFB	Z76397.D	08/15/24 09:27	n/a	BFB Tune
VZ3076-IC3076	Z76399.D	08/15/24 10:17	n/a	Initial cal 1
VZ3076-IC3076	Z76400.D	08/15/24 10:40	n/a	Initial cal 2
VZ3076-IC3076	Z76401.D	08/15/24 11:03	n/a	Initial cal 3
VZ3076-IC3076	Z76402.D	08/15/24 11:26	n/a	Initial cal 4
VZ3076-ICC3076	Z76403.D	08/15/24 11:49	n/a	Initial cal 5
VZ3076-IC3076	Z76404.D	08/15/24 12:12	n/a	Initial cal 6
VZ3076-IC3076	Z76405.D	08/15/24 12:35	n/a	Initial cal 7
VZ3076-ICV3076	Z76407.D	08/15/24 13:24	n/a	Initial cal verification 5
VZ3076-BS	Z76408.D	08/15/24 14:14	n/a	Blank Spike
VZ3076-MB	Z76410.D	08/15/24 15:08	n/a	Method Blank
FC17922-2	Z76411.D	08/15/24 15:39	n/a	(used for QC only; not part of job FC17980)
ZZZZZZ	Z76412.D	08/15/24 16:02	n/a	(unrelated sample)
ZZZZZZ	Z76413.D	08/15/24 16:25	n/a	(unrelated sample)
ZZZZZZ	Z76414.D	08/15/24 16:48	n/a	(unrelated sample)
ZZZZZZ	Z76416.D	08/15/24 17:34	n/a	(unrelated sample)
ZZZZZZ	Z76417.D	08/15/24 17:57	n/a	(unrelated sample)
ZZZZZZ	Z76418.D	08/15/24 18:20	n/a	(unrelated sample)
ZZZZZZ	Z76419.D	08/15/24 18:43	n/a	(unrelated sample)
ZZZZZZ	Z76420.D	08/15/24 19:06	n/a	(unrelated sample)
ZZZZZZ	Z76421.D	08/15/24 19:29	n/a	(unrelated sample)
FC17922-2MS	Z76422.D	08/15/24 19:51	n/a	Matrix Spike
FC17922-2MSD	Z76423.D	08/15/24 20:14	n/a	Matrix Spike Duplicate
VZ3076-ECC3076	Z76424.D	08/15/24 20:37	n/a	Ending cal 5

Run Sequence Report

Job Number: FC17980
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Run ID: VZ3078 **Method:** SW846 8260D BY SIM **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ3078-BFB	Z76454.D	08/19/24 07:10	n/a	BFB Tune
VZ3078-CC3076	Z76456.D	08/19/24 08:00	n/a	Continuing cal 5
VZ3078-BS	Z76457.D	08/19/24 08:31	n/a	Blank Spike
VZ3078-MB	Z76459.D	08/19/24 09:45	n/a	Method Blank
FC17980-11	Z76460.D	08/19/24 10:20	n/a	2433M0BW053C
ZZZZZZ	Z76461.D	08/19/24 10:43	n/a	(unrelated sample)
FC17979-17	Z76462.D	08/19/24 11:06	n/a	(used for QC only; not part of job FC17980)
ZZZZZZ	Z76463.D	08/19/24 11:29	n/a	(unrelated sample)
ZZZZZZ	Z76464.D	08/19/24 11:52	n/a	(unrelated sample)
ZZZZZZ	Z76465.D	08/19/24 12:15	n/a	(unrelated sample)
ZZZZZZ	Z76466.D	08/19/24 12:38	n/a	(unrelated sample)
FC17980-1	Z76467.D	08/19/24 13:01	n/a	2433MOU2038F
FC17980-2	Z76468.D	08/19/24 13:24	n/a	2433MOU2039F
FC17980-3	Z76469.D	08/19/24 13:46	n/a	2433MOU2040F
FC17980-4	Z76470.D	08/19/24 14:09	n/a	2433MOU2041F
FC17980-5	Z76471.D	08/19/24 14:32	n/a	2433MOU2042F
FC17980-6	Z76472.D	08/19/24 14:55	n/a	2433MOU2043D
FC17980-7	Z76473.D	08/19/24 15:18	n/a	2433MOU2044F
FC17980-8	Z76474.D	08/19/24 15:41	n/a	2433MOU2045F
FC17980-9	Z76475.D	08/19/24 16:04	n/a	2433MOU2046F
FC17980-10	Z76476.D	08/19/24 16:27	n/a	2433MOU2047F
ZZZZZZ	Z76477.D	08/19/24 16:50	n/a	(unrelated sample)
ZZZZZZ	Z76478.D	08/19/24 17:13	n/a	(unrelated sample)
ZZZZZZ	Z76479.D	08/19/24 17:36	n/a	(unrelated sample)
FC17979-17MS	Z76480.D	08/19/24 17:59	n/a	Matrix Spike
FC17979-17MSD	Z76481.D	08/19/24 18:23	n/a	Matrix Spike Duplicate
VZ3078-ECC3076	Z76482.D	08/19/24 18:46	n/a	Ending cal 5

MS Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:35:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

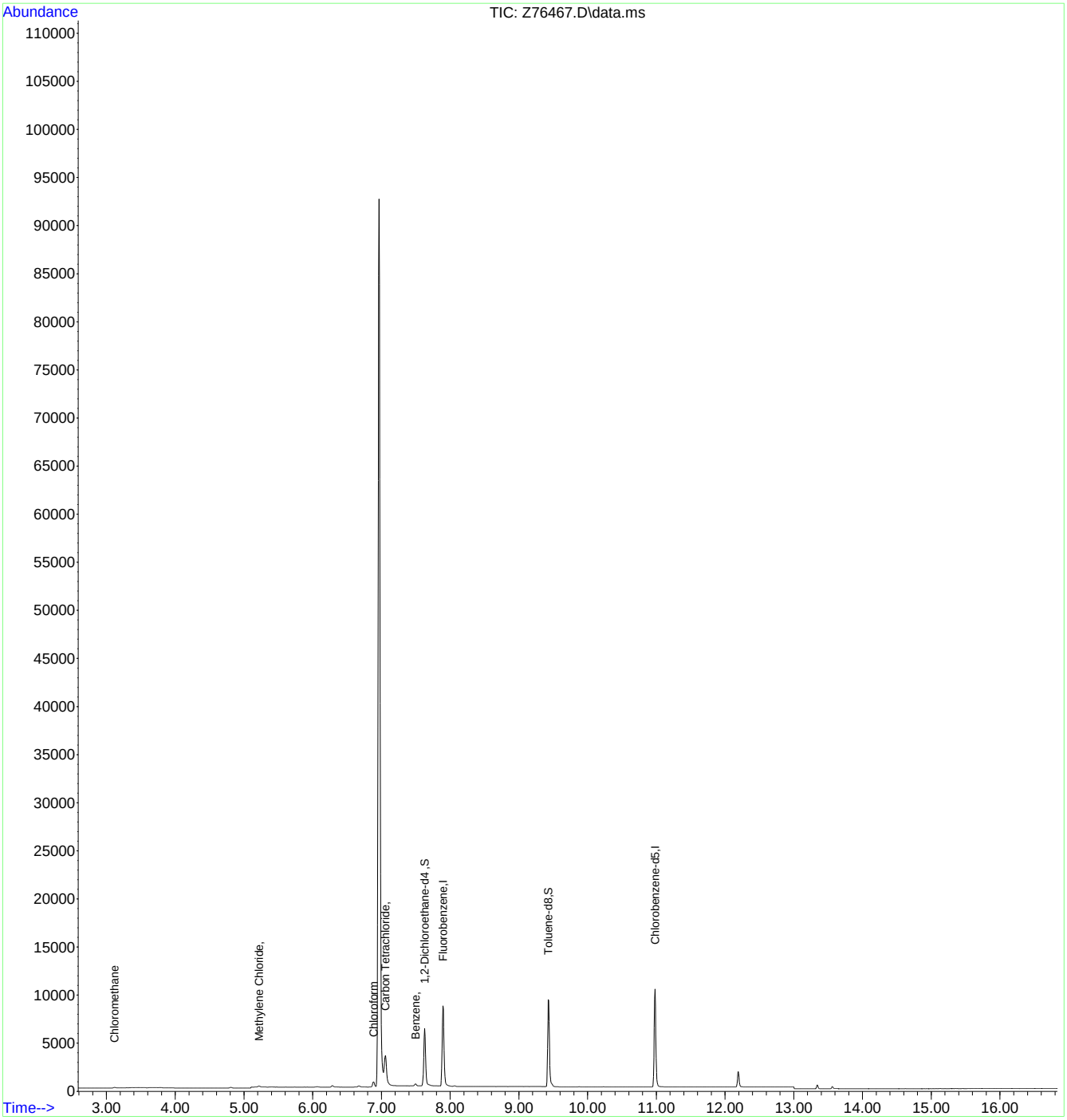
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10867	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11279	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5809	5.60	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 112.00%			
19) Toluene-d8	9.428	98	10113	4.84	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 96.80%			
Target Compounds						Qvalue
3) Chloromethane	3.116	50	162	0.17	ug/L	79
5) Methylene Chloride	5.219	49	104	0.07	ug/L	92
9) Chloroform	6.888	83	563m	0.24	ug/L	
10) Carbon Tetrachloride	7.058	117	2088m	1.01	ug/L	
12) Benzene	7.499	78	355	0.14	ug/L	99

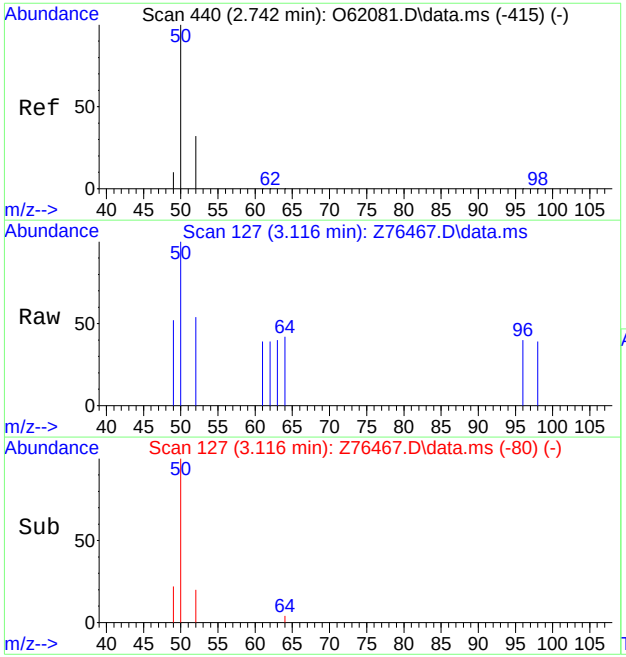
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:35:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

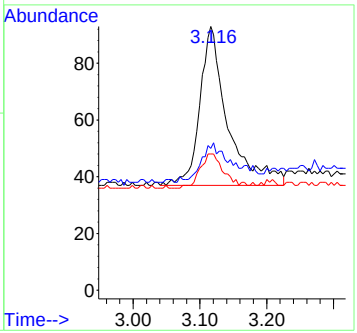


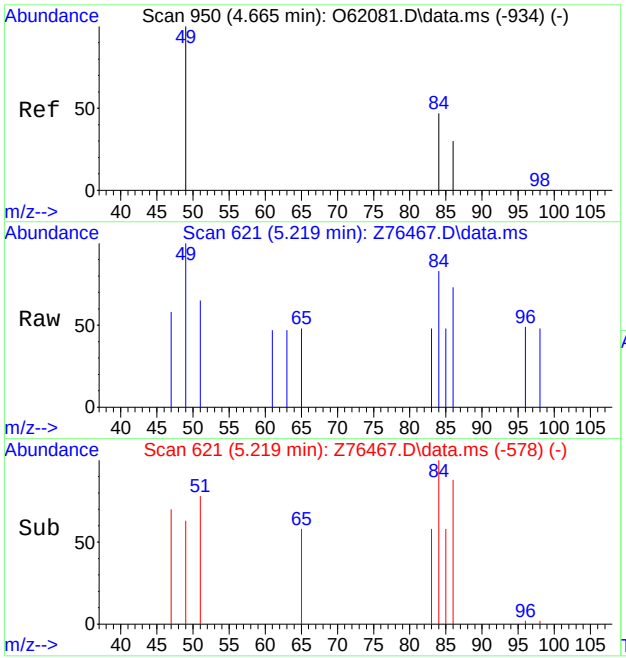


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.116 min Scan# 127
Delta R.T. -0.004 min
Lab File: Z76467.D
Acq: 19 Aug 2024 1:01 pm

Tgt Ion: 50 Resp: 162

Ion	Ratio	Lower	Upper
50	100		
52	21.4	2.1	62.1
49	21.4	0.0	41.2

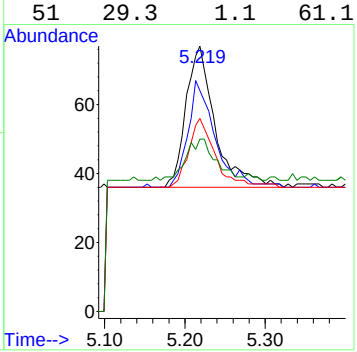


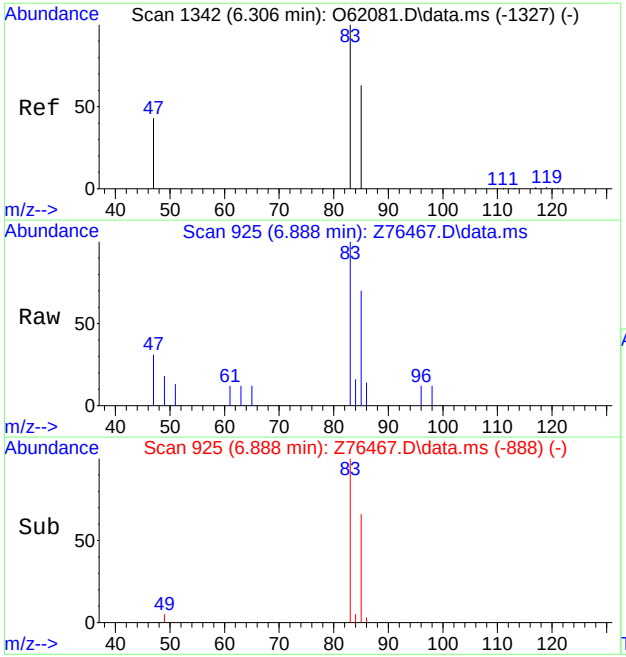


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.219 min Scan# 621
Delta R.T. 0.006 min
Lab File: Z76467.D
Acq: 19 Aug 2024 1:01 pm

Tgt Ion: 49 Resp: 104

Ion	Ratio	Lower	Upper
49	100		
84	68.3	49.7	109.7
86	48.8	22.0	82.0
51	29.3	1.1	61.1

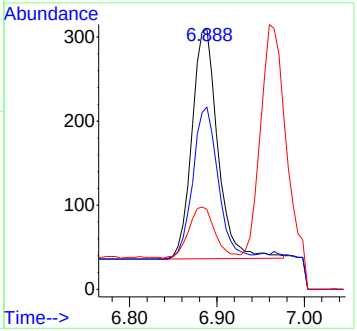


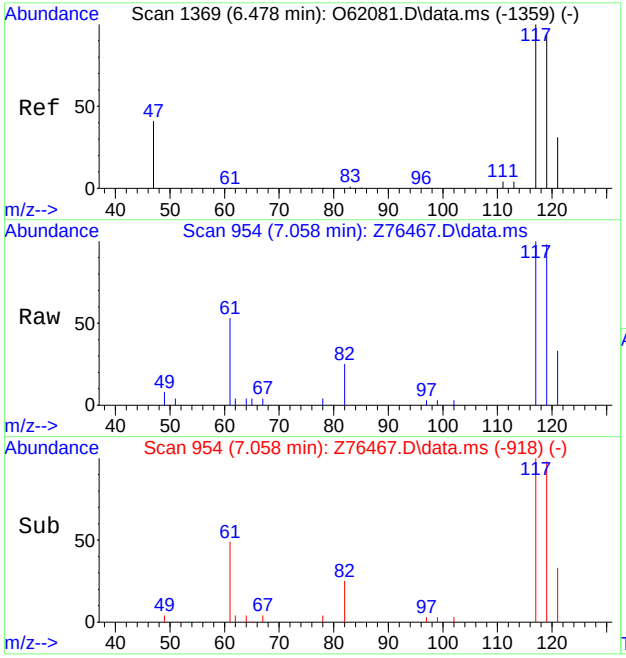


#9
Chloroform
Concen: 0.24 ug/L m
RT: 6.888 min Scan# 925
Delta R.T. 0.005 min
Lab File: Z76467.D
Acq: 19 Aug 2024 1:01 pm

Tgt Ion: 83 Resp: 563

Ion	Ratio	Lower	Upper
83	100		
85	70.0	35.9	95.9
47	30.6	0.0	51.0

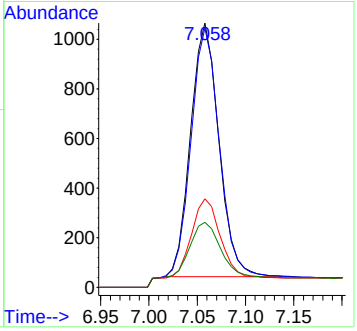


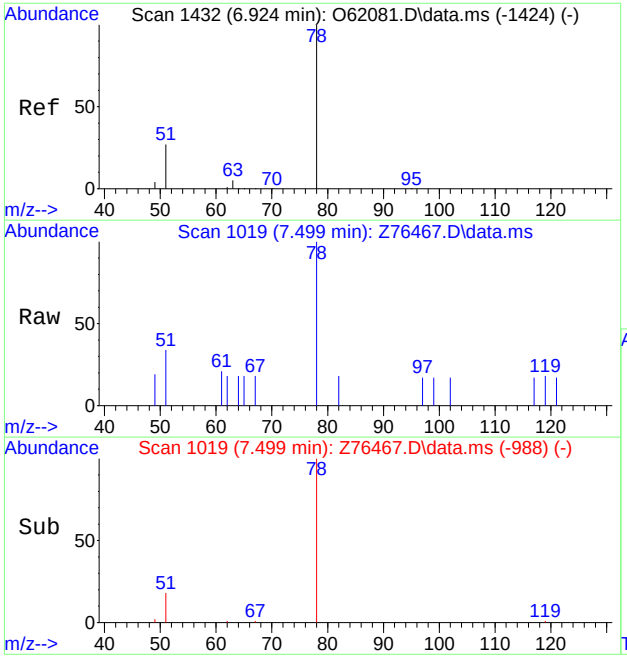


#10
Carbon Tetrachloride
Concen: 1.01 ug/L m
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76467.D
Acq: 19 Aug 2024 1:01 pm

Tgt Ion:117 Resp: 2088

Ion	Ratio	Lower	Upper
117	100		
119	98.0	66.2	126.2
121	33.5	1.2	61.2
82	24.6	0.0	50.8

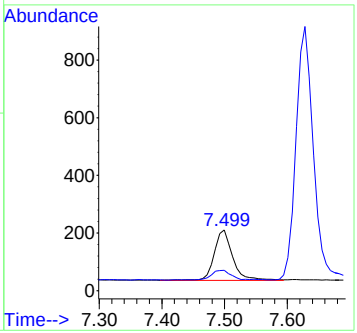




#12
Benzene
Concen: 0.14 ug/L
RT: 7.499 min Scan# 1019
Delta R.T. 0.007 min
Lab File: Z76467.D
Acq: 19 Aug 2024 1:01 pm

Tgt Ion: 78 Resp: 355

Ion	Ratio	Lower	Upper
78	100		
51	18.9	0.0	49.4



Manual Integration Approval Summary

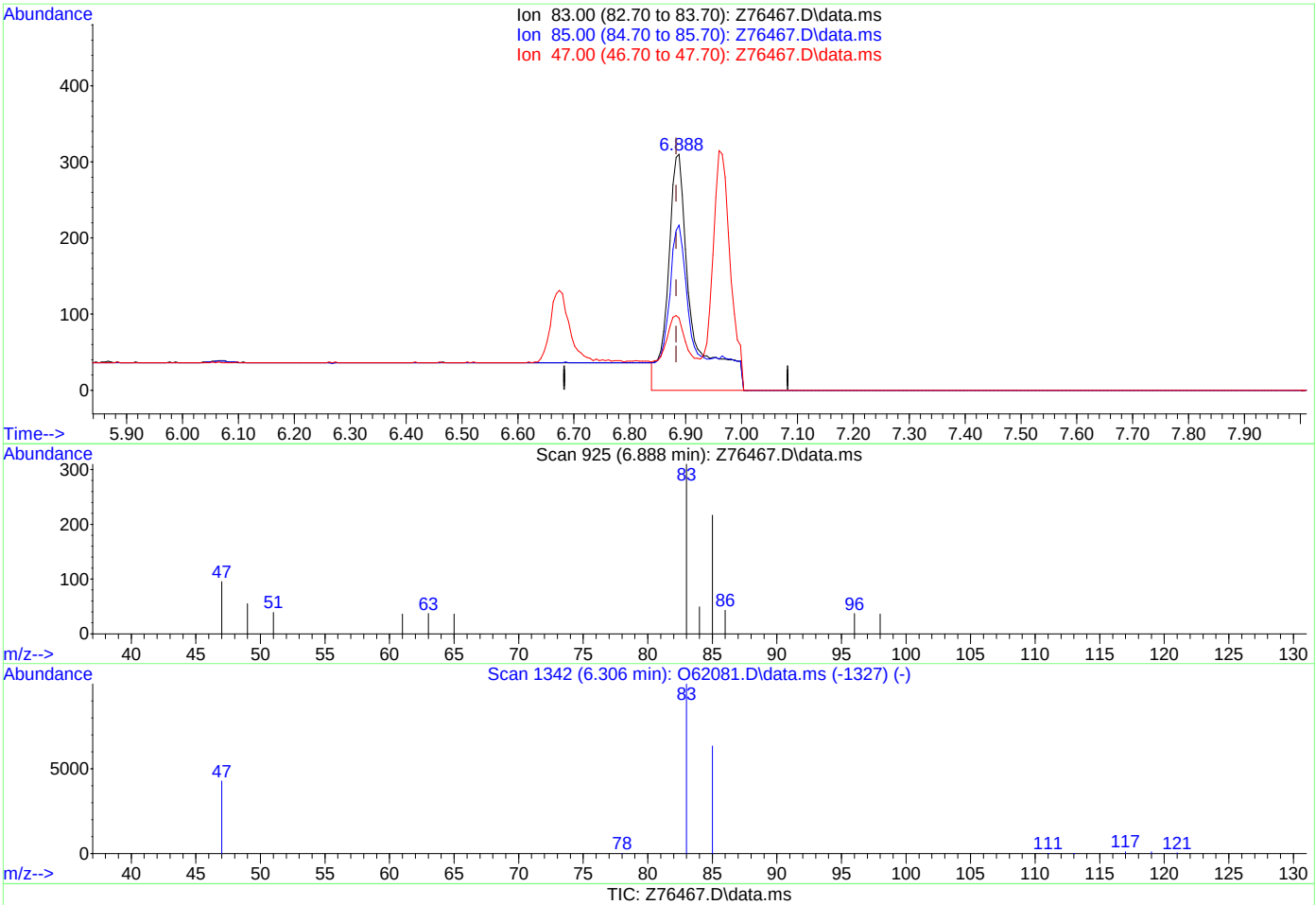
Sample Number: FC17980-1
Lab FileID: Z76467.D
Injection Time: 08/19/24 13:01
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.89	Poor instrument integration
Carbon Tetrachloride	56-23-5		7.06	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:33:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



TIC: Z76467.D\data.ms

(9) Chloroform

6.888min (+0.005) 0.39ug/L

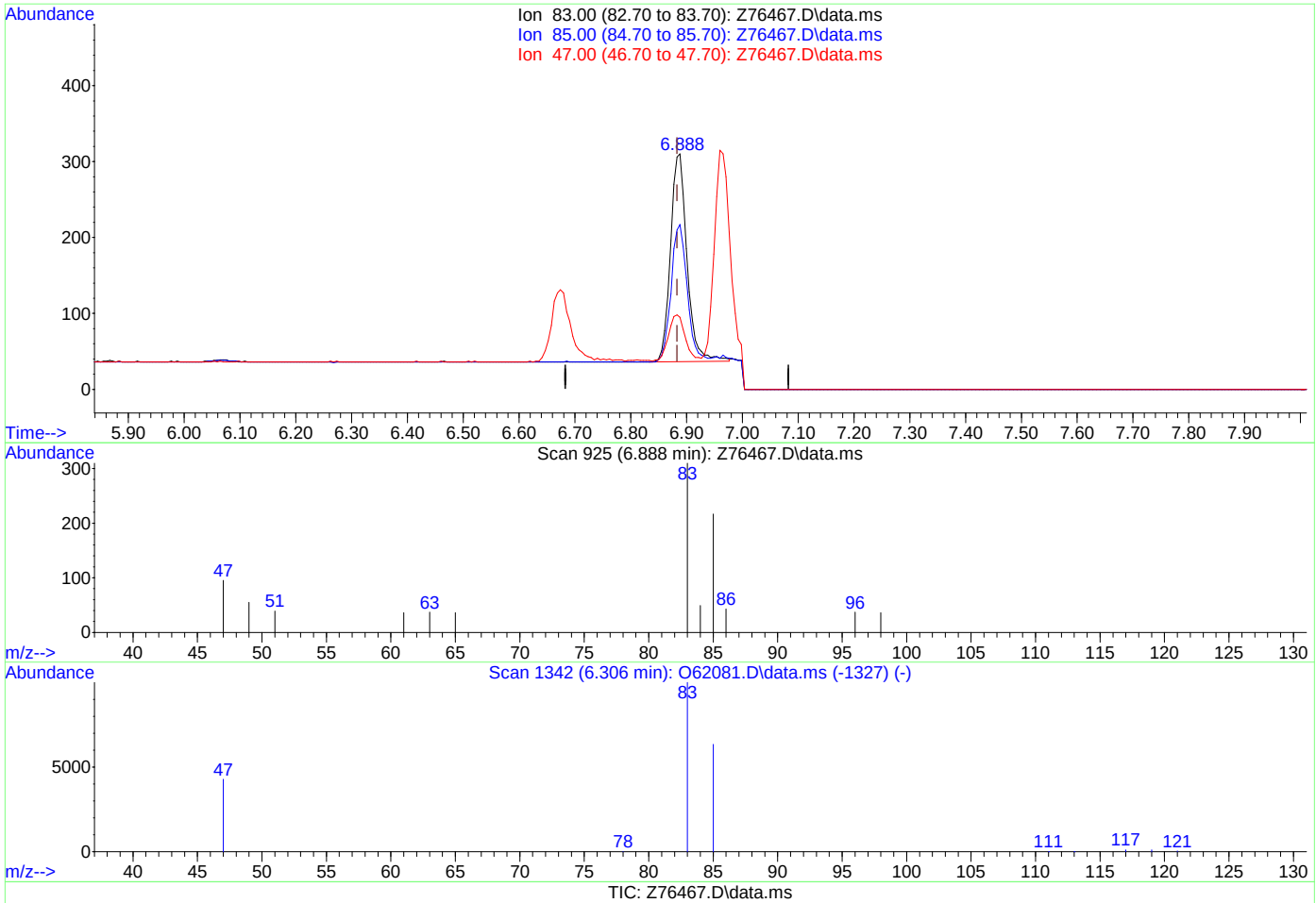
response 922

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.00
47.00	21.00	30.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:33:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



TIC: Z76467.D\data.ms

(9) Chloroform

6.888min (+0.005) 0.24ug/L m

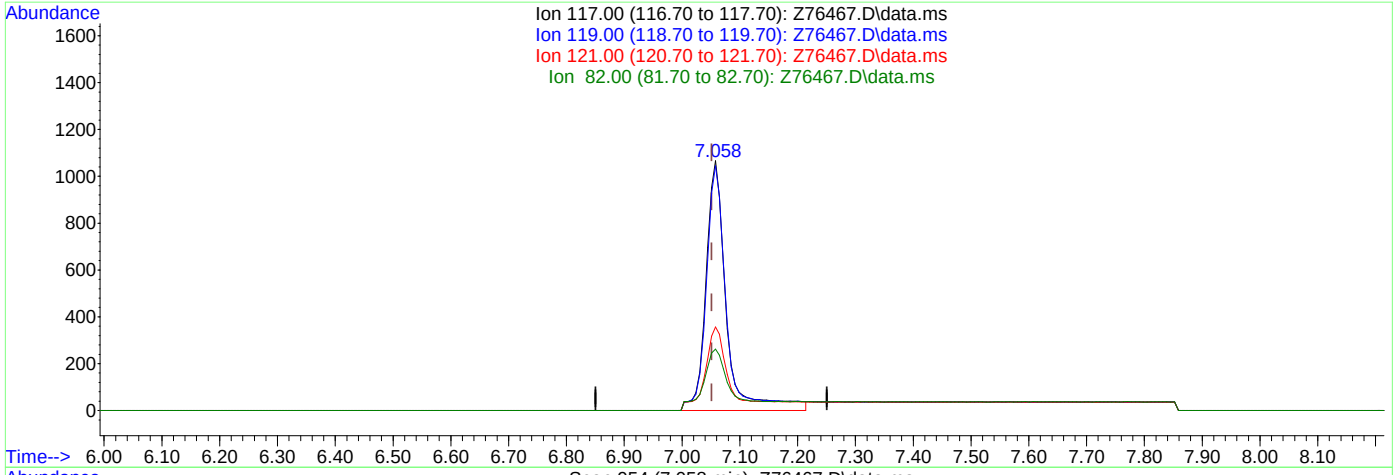
response 563

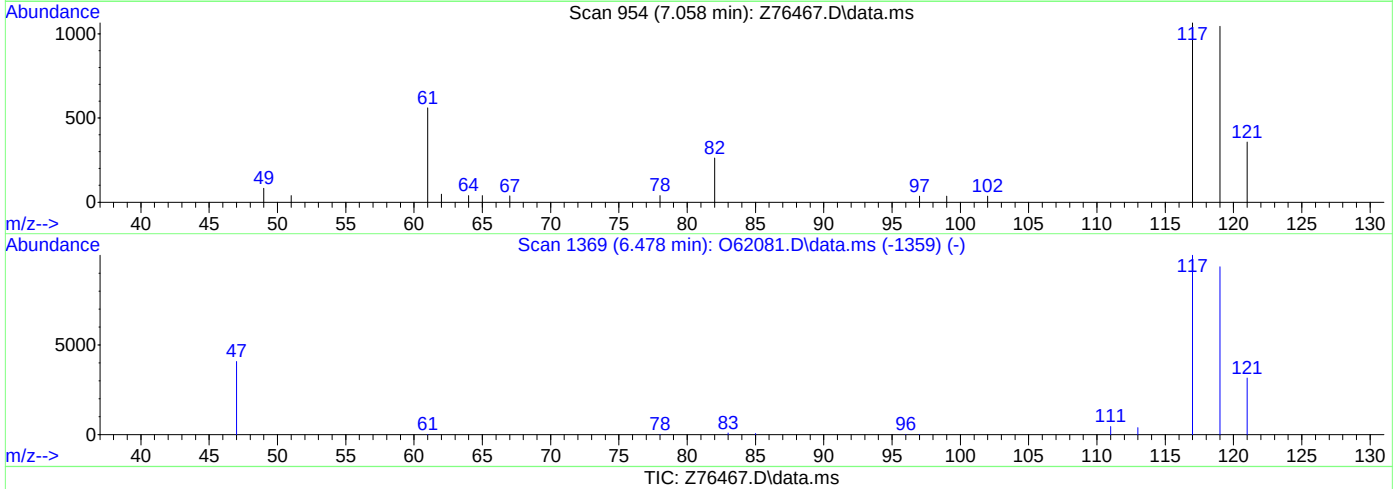
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.00
47.00	21.00	30.65
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:33:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76467.D\data.ms

(10) Carbon Tetrachloride ( )

7.058min (+0.007) 1.27ug/L

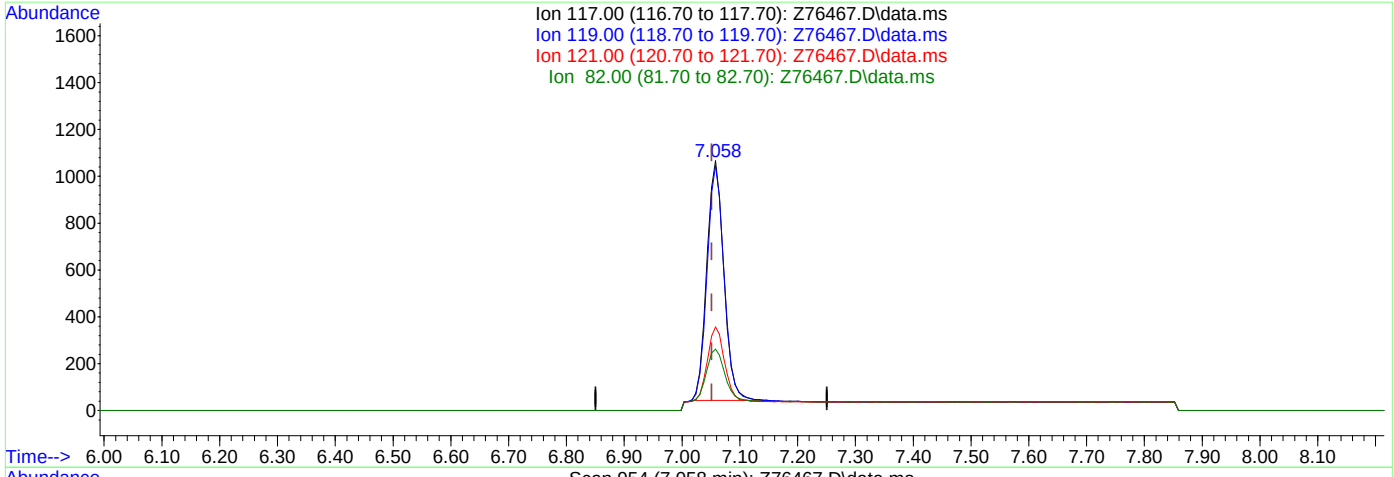
response 2600

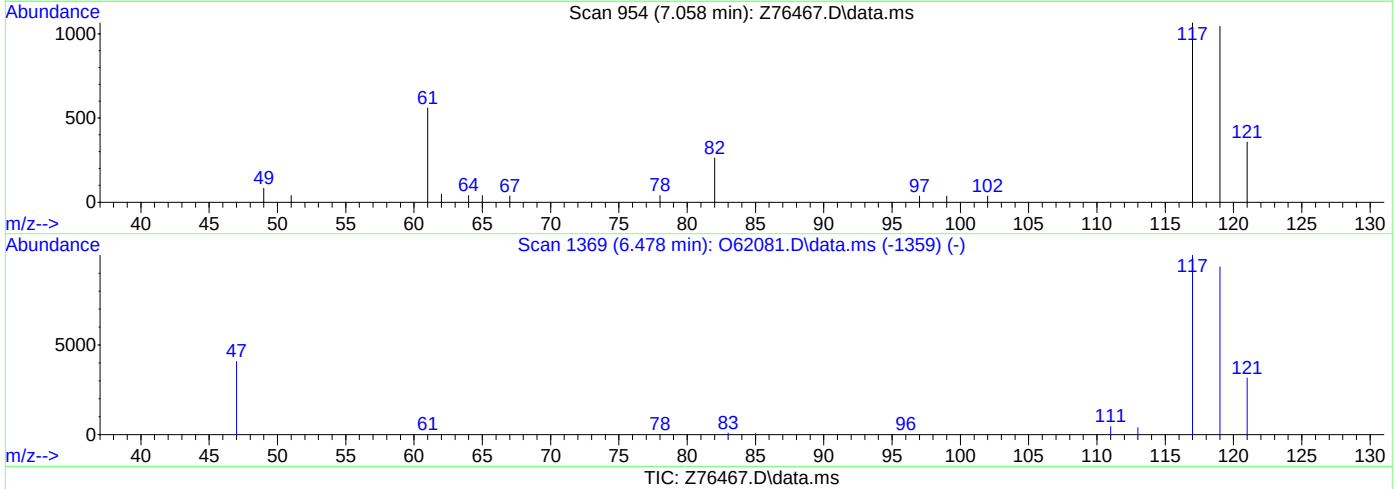
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	98.03
121.00	31.20	33.49
82.00	20.80	24.58

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76467.D
Acq On : 19 Aug 2024 1:01 pm
Operator : claudias
Sample : FC17980-1 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Aug 19 14:33:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76467.D\data.ms

(10) Carbon Tetrachloride ( )

7.058min (+0.007) 1.01ug/L m

response 2088

Ion	Exp%	Act%
117.00	100	100
119.00	96.20	98.03
121.00	31.20	33.49
82.00	20.80	24.58

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 20 07:59:20 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

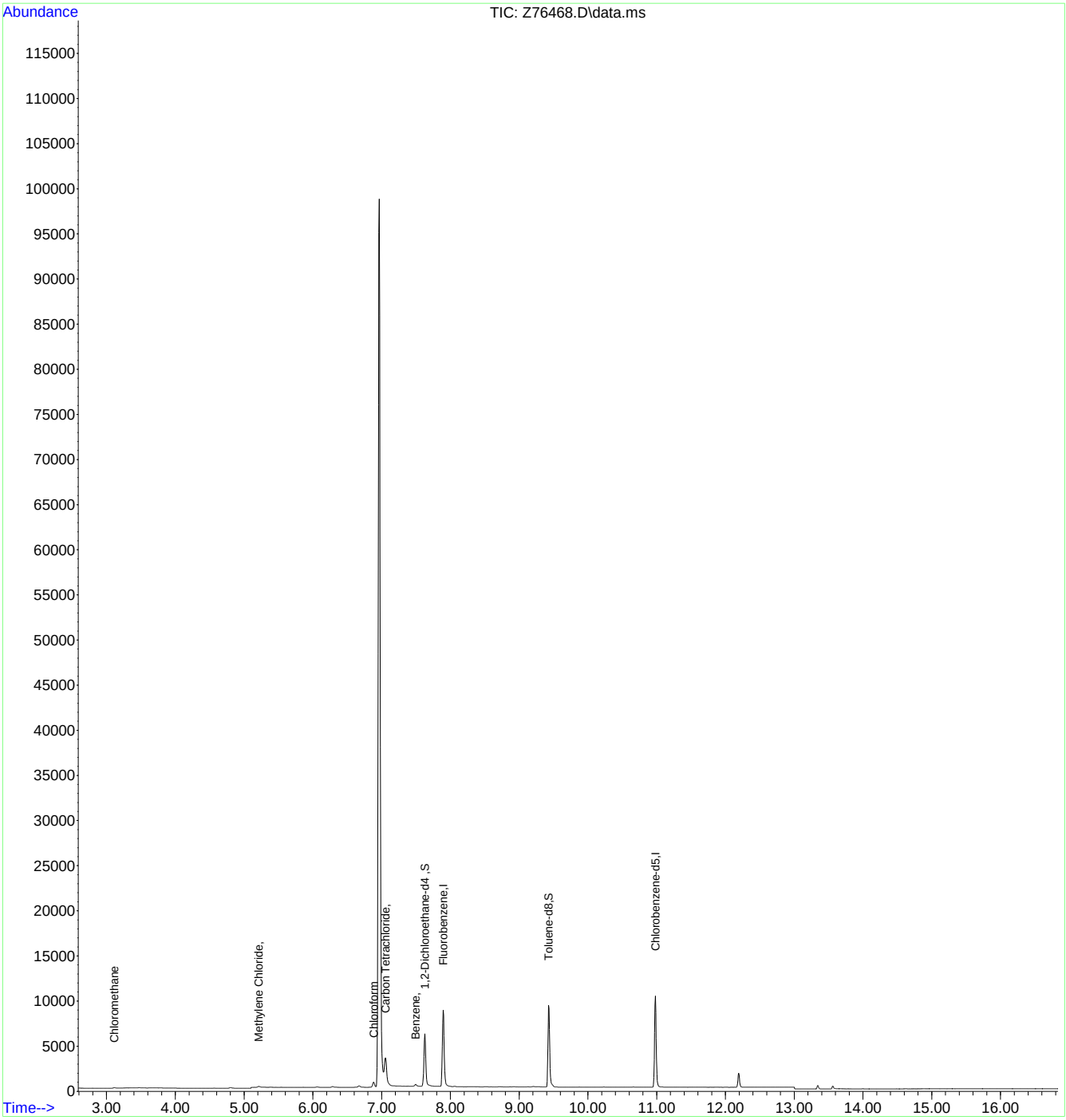
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10818	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11122	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5702	5.52	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 110.40%			
19) Toluene-d8	9.428	98	10034	4.87	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.40%			
Target Compounds						Qvalue
3) Chloromethane	3.112	50	169	0.18	ug/L	84
5) Methylene Chloride	5.213	49	106	0.07	ug/L	92
9) Chloroform	6.883	83	598m	0.26	ug/L	
10) Carbon Tetrachloride	7.058	117	2145m	1.05	ug/L	
12) Benzene	7.492	78	325	0.13	ug/L	95

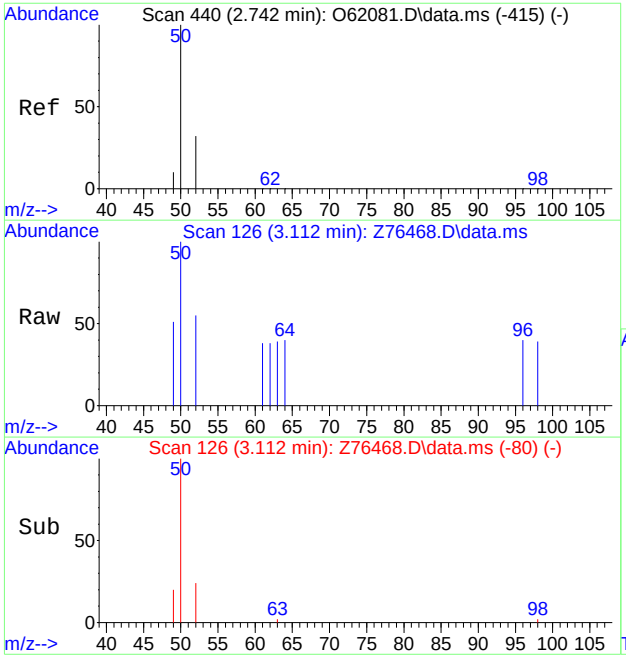
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 20 07:59:20 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

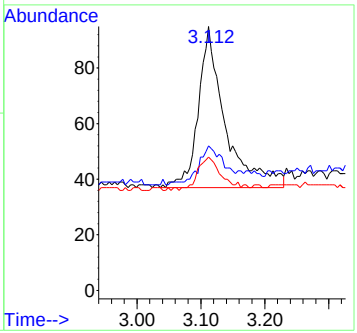


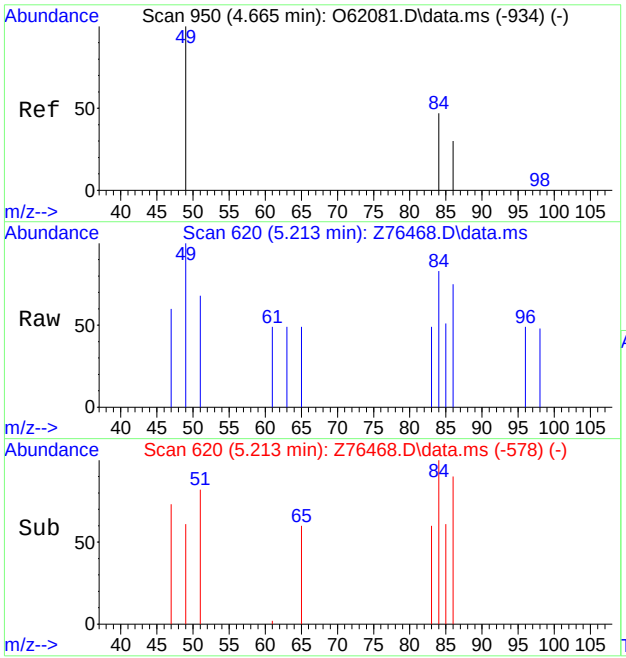


#3
Chloromethane
Concen: 0.18 ug/L
RT: 3.112 min Scan# 126
Delta R.T. -0.008 min
Lab File: Z76468.D
Acq: 19 Aug 2024 1:24 pm

Tgt Ion: 50 Resp: 169

Ion	Ratio	Lower	Upper
50	100		
52	24.1	2.1	62.1
49	19.0	0.0	41.2

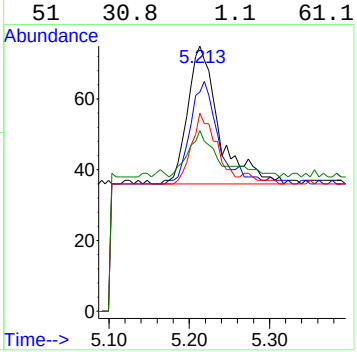


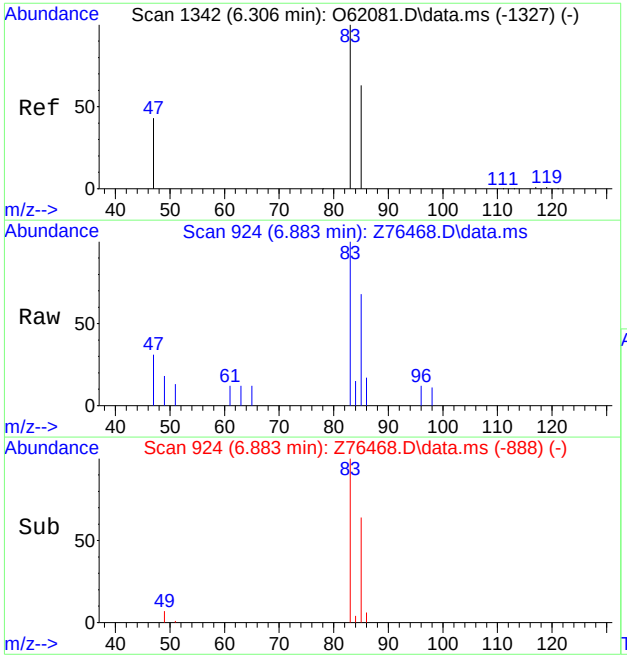


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.000 min
Lab File: Z76468.D
Acq: 19 Aug 2024 1:24 pm

Tgt Ion: 49 Resp: 106

Ion	Ratio	Lower	Upper
49	100		
84	66.7	49.7	109.7
86	51.3	22.0	82.0
51	30.8	1.1	61.1

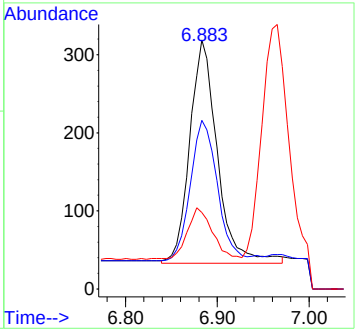


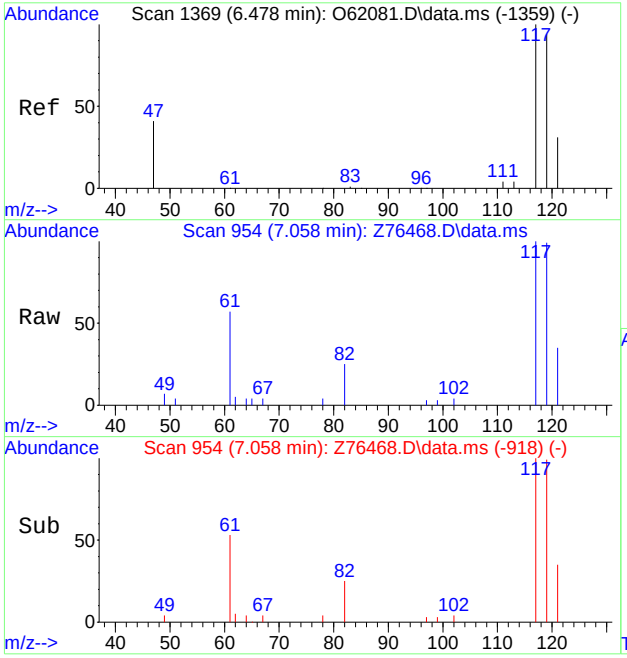


#9
Chloroform
Concen: 0.26 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76468.D
Acq: 19 Aug 2024 1:24 pm

Tgt Ion: 83 Resp: 598

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.9	95.9
47	30.7	0.0	51.0

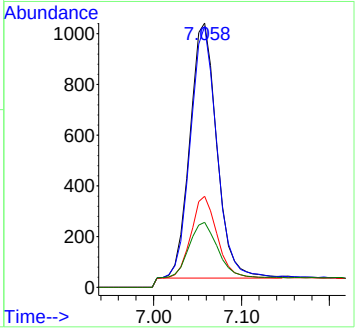


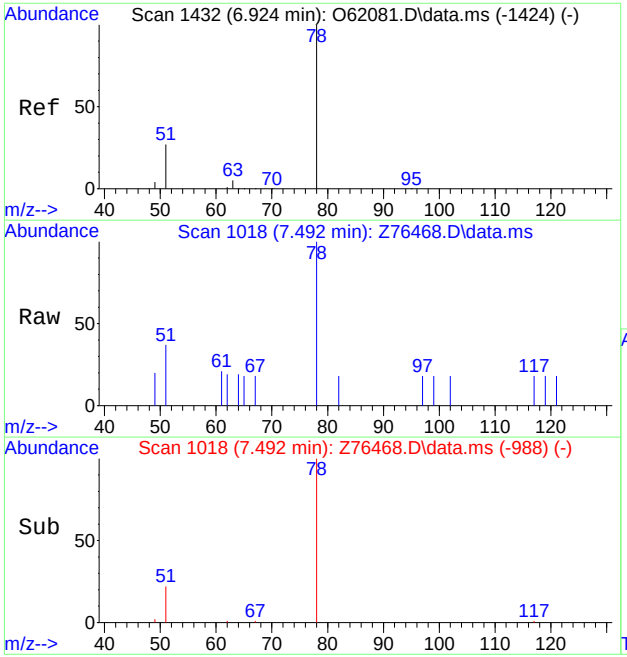


#10
Carbon Tetrachloride
Concen: 1.05 ug/L m
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76468.D
Acq: 19 Aug 2024 1:24 pm

Tgt Ion:117 Resp: 2145

Ion	Ratio	Lower	Upper
117	100		
119	98.7	66.2	126.2
121	34.5	1.2	61.2
82	24.6	0.0	50.8

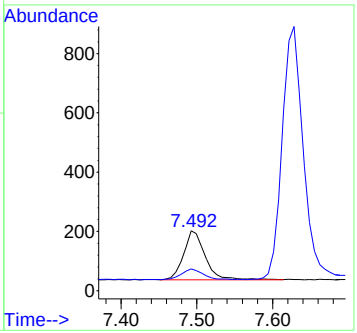




#12
Benzene
Concen: 0.13 ug/L
RT: 7.492 min Scan# 1018
Delta R.T. 0.000 min
Lab File: Z76468.D
Acq: 19 Aug 2024 1:24 pm

Tgt Ion: 78 Resp: 325

Ion	Ratio	Lower	Upper
78	100		
51	21.8	0.0	49.4



Manual Integration Approval Summary

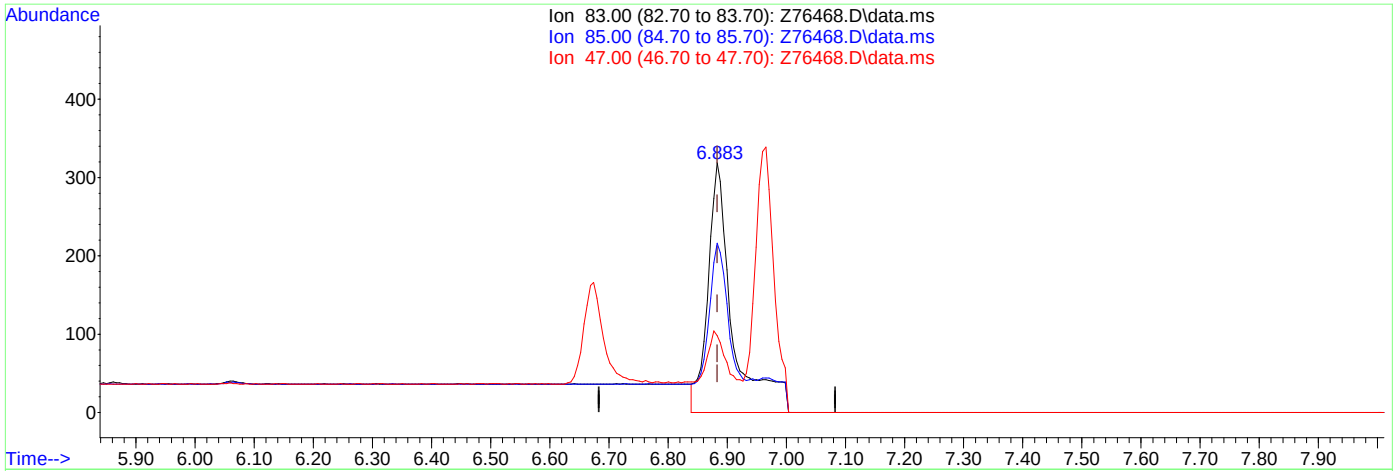
Sample Number: FC17980-2
Lab FileID: Z76468.D
Injection Time: 08/19/24 13:24
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

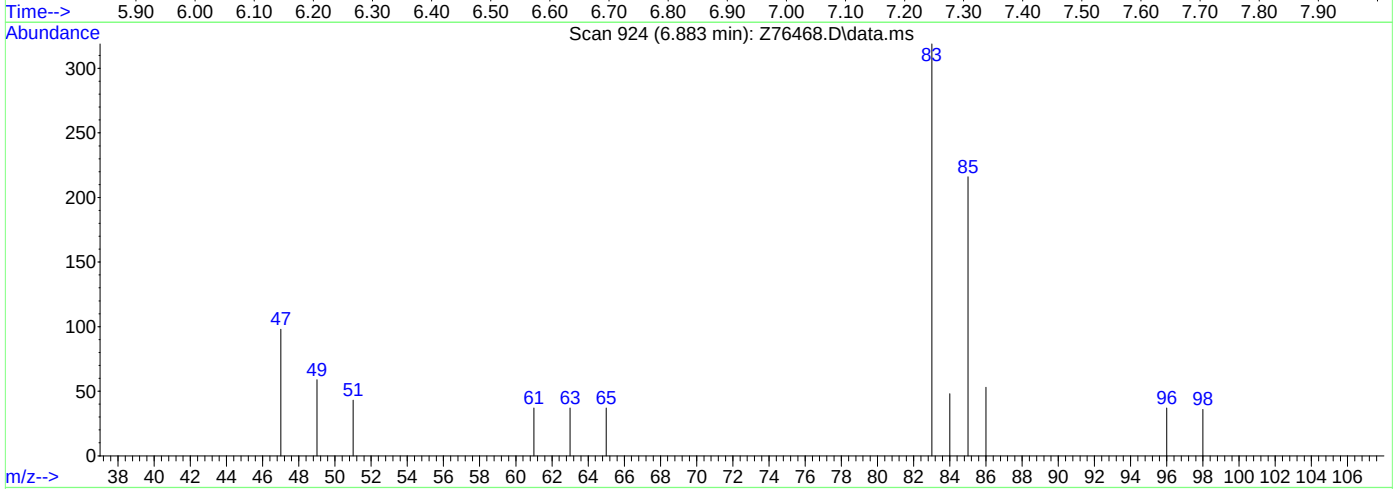
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration
Carbon Tetrachloride	56-23-5		7.06	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 19 14:35:48 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76468.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.40ug/L

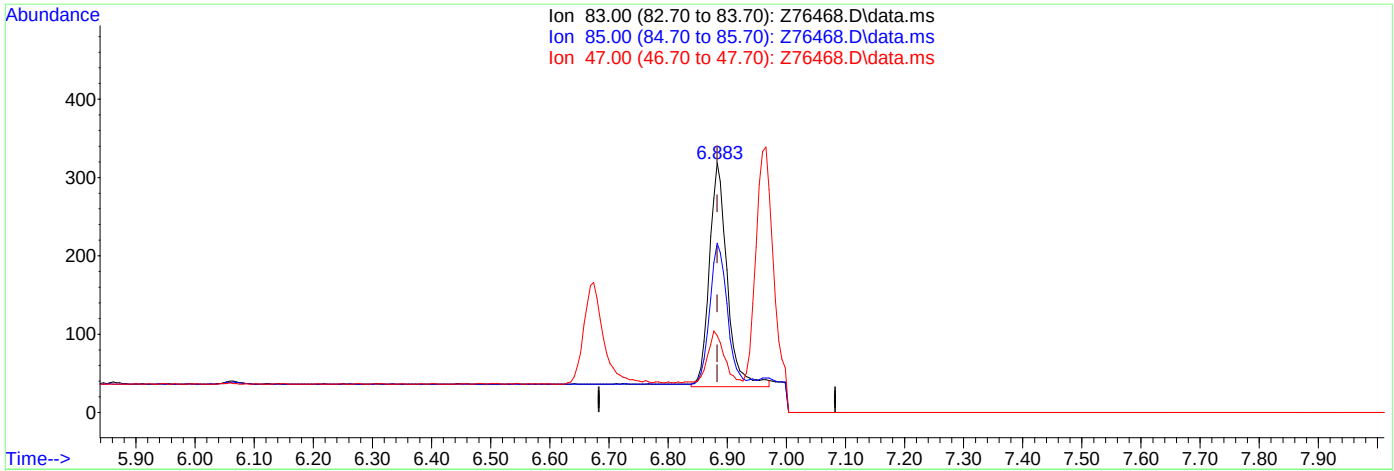
response 931

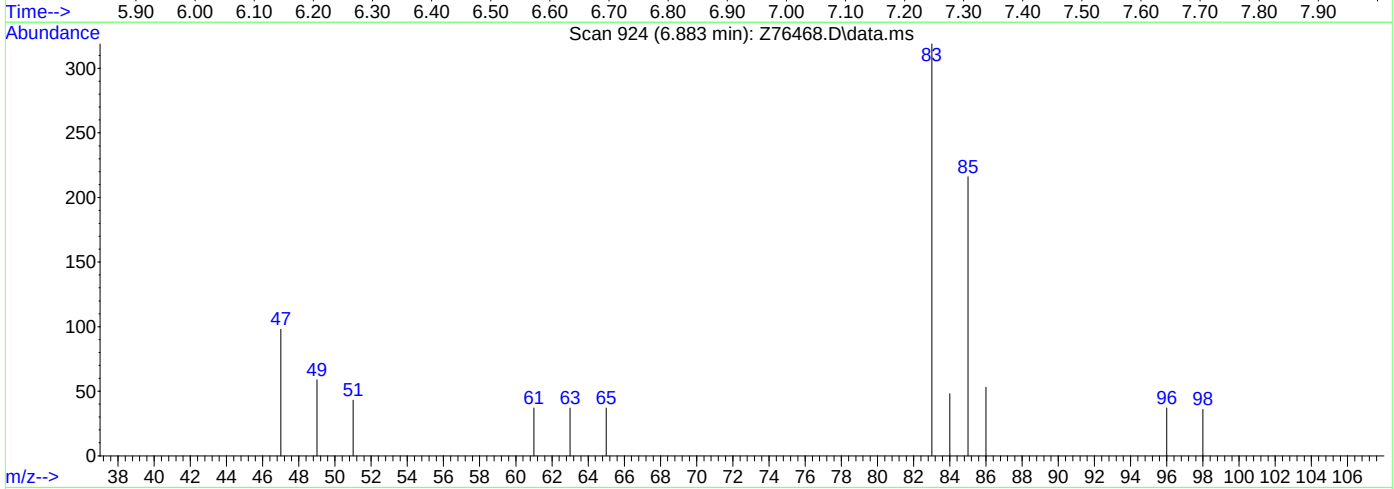
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	67.71
47.00	21.00	30.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 19 14:35:48 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76468.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.26ug/L m

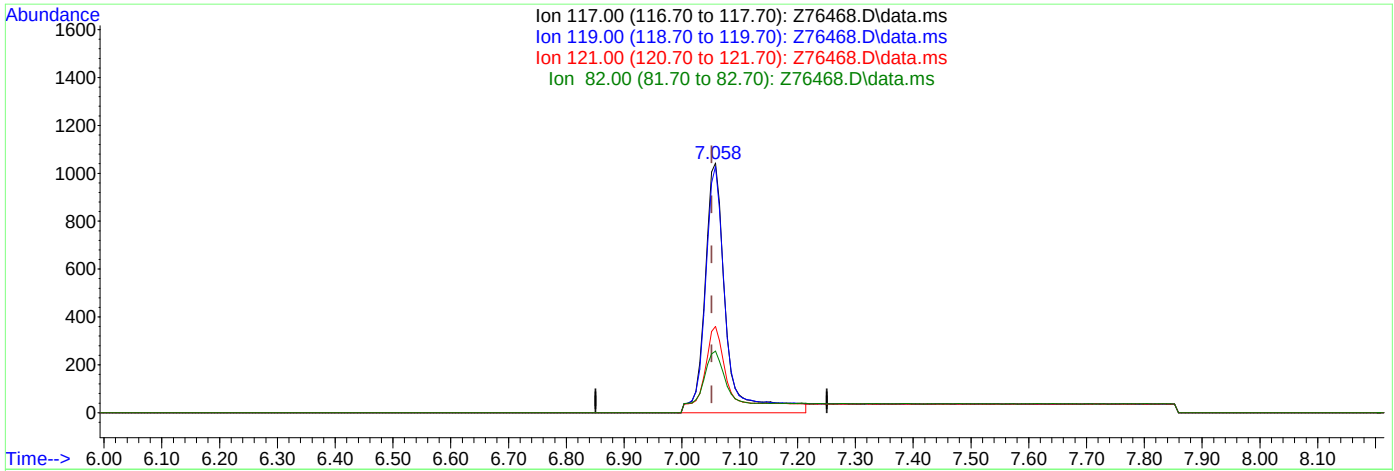
response 598

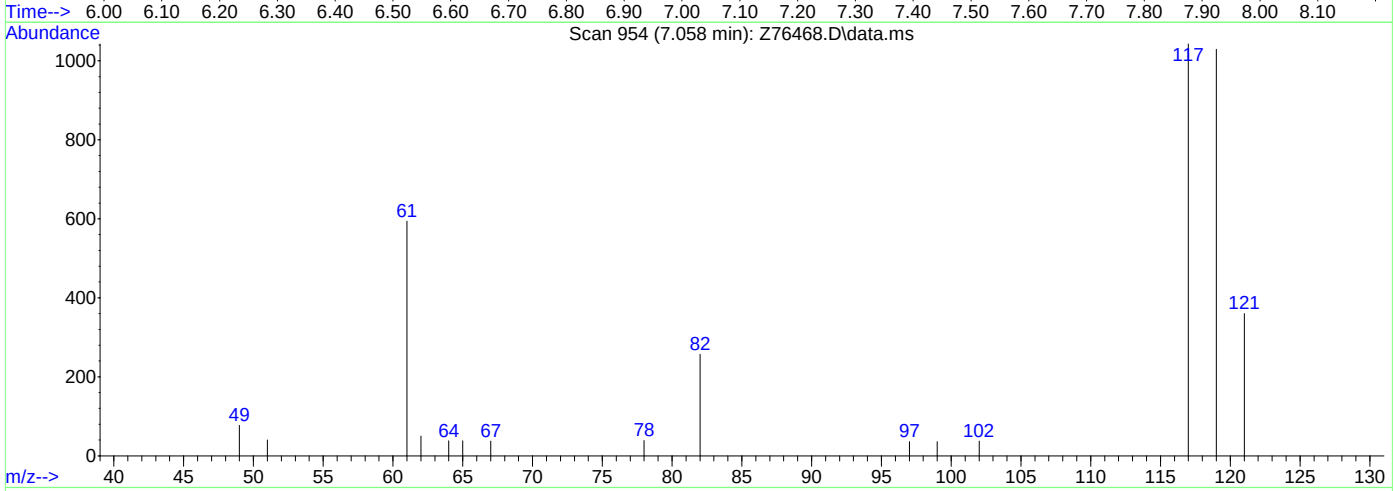
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	67.71
47.00	21.00	30.72
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 19 14:35:48 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76468.D\data.ms

(10) Carbon Tetrachloride ( )

7.058min (+0.007) 1.28ug/L

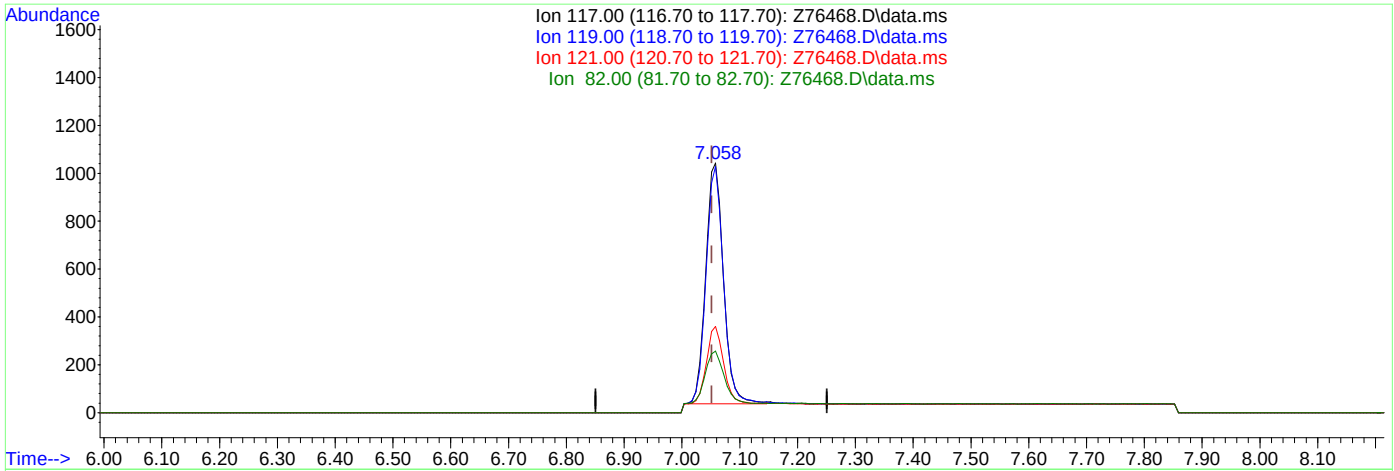
response 2609

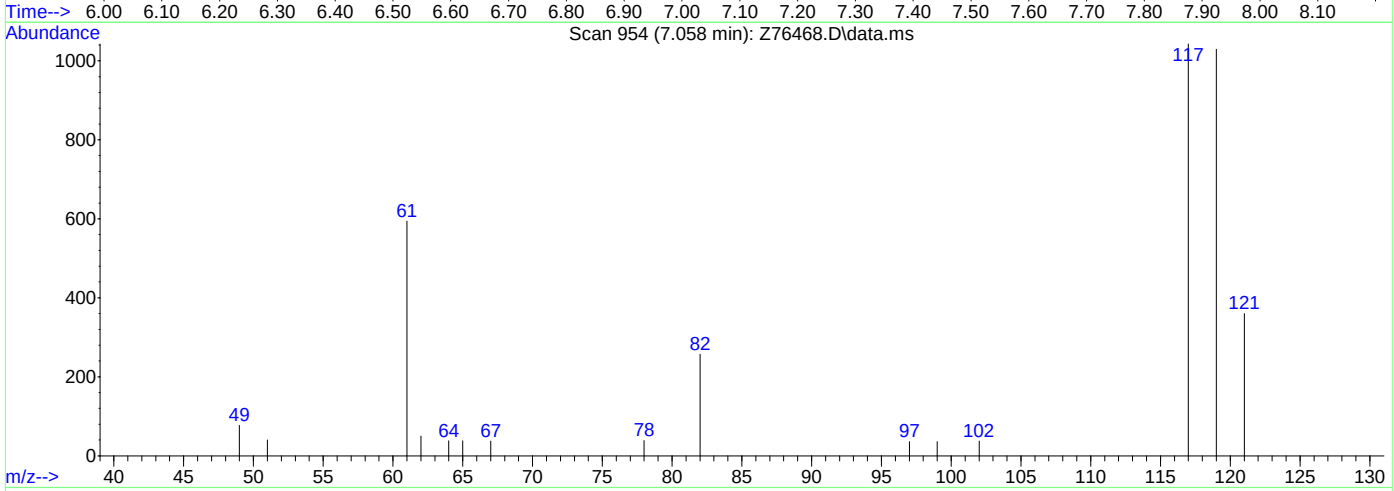
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	98.66
121.00	31.20	34.52
82.00	20.80	24.64

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76468.D
Acq On : 19 Aug 2024 1:24 pm
Operator : claudias
Sample : FC17980-2 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Aug 19 14:35:48 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76468.D\data.ms

(10) Carbon Tetrachloride ( )

7.058min (+0.007) 1.05ug/L m

response 2145

Ion	Exp%	Act%
117.00	100	100
119.00	96.20	98.66
121.00	31.20	34.52
82.00	20.80	24.64

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76469.D
Acq On : 19 Aug 2024 1:46 pm
Operator : claudias
Sample : FC17980-3 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 07:16:45 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10996	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11343	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5908	5.63	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 112.60%			
19) Toluene-d8	9.428	98	10166	4.84	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 96.80%			
Target Compounds						Qvalue
3) Chloromethane	3.104	50	144	0.15	ug/L	72
5) Methylene Chloride	5.213	49	107	0.07	ug/L	94
9) Chloroform	6.883	83	571m	0.24	ug/L	
10) Carbon Tetrachloride	7.058	117	2582	1.24	ug/L	98
12) Benzene	7.492	78	353	0.13	ug/L	100

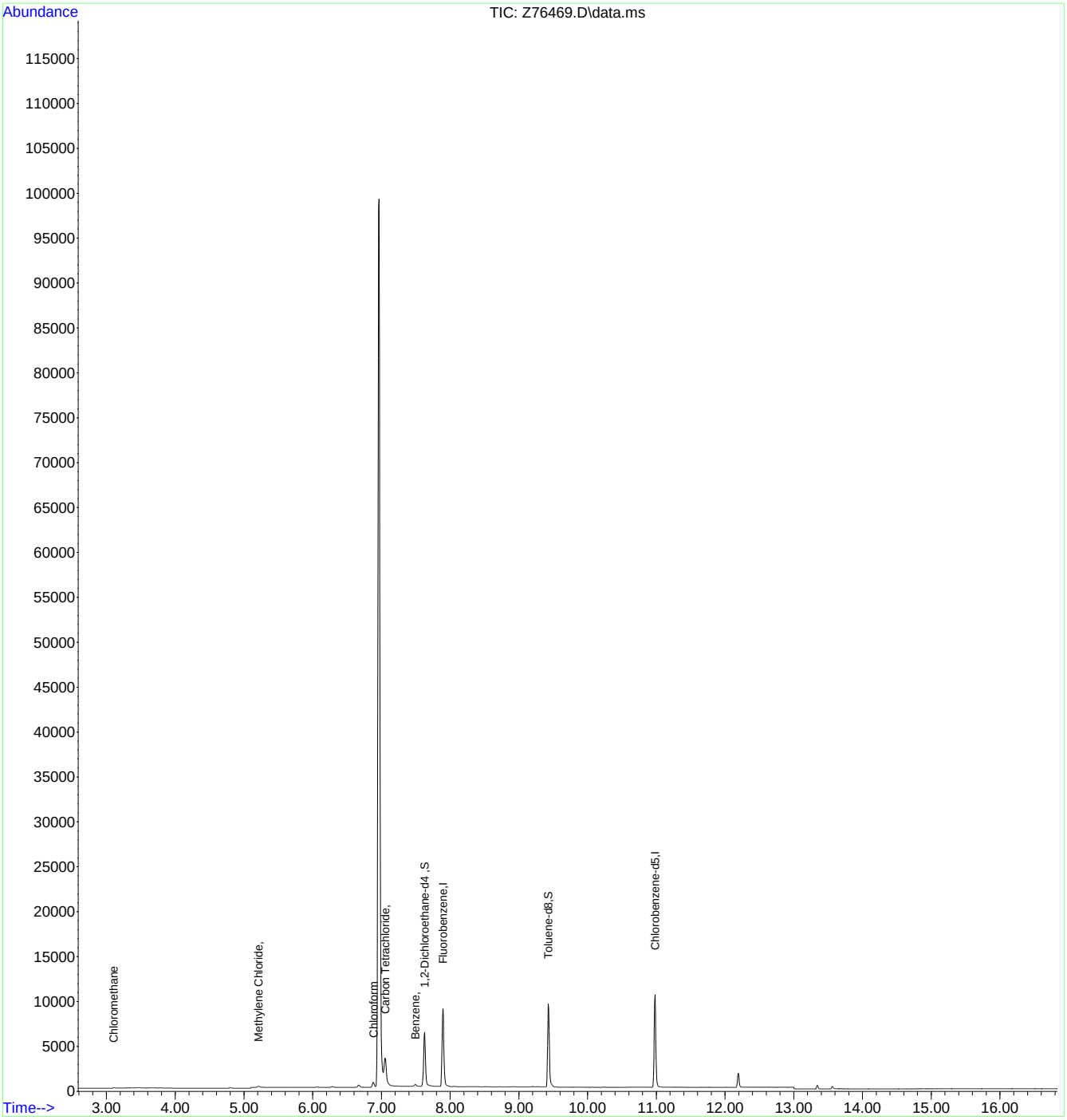
(#) = qualifier out of range (m) = manual integration (+) = signals summed

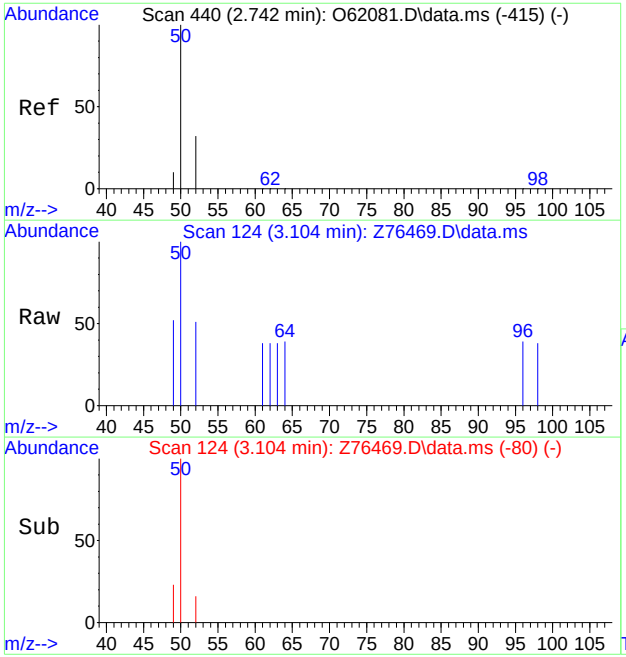
7.1.3
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76469.D
Acq On : 19 Aug 2024 1:46 pm
Operator : claudias
Sample : FC17980-3 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 07:16:45 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

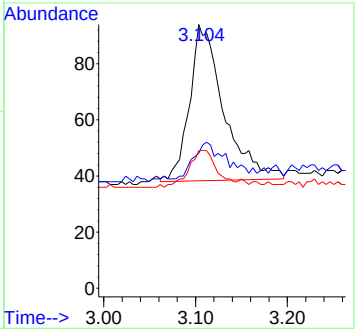


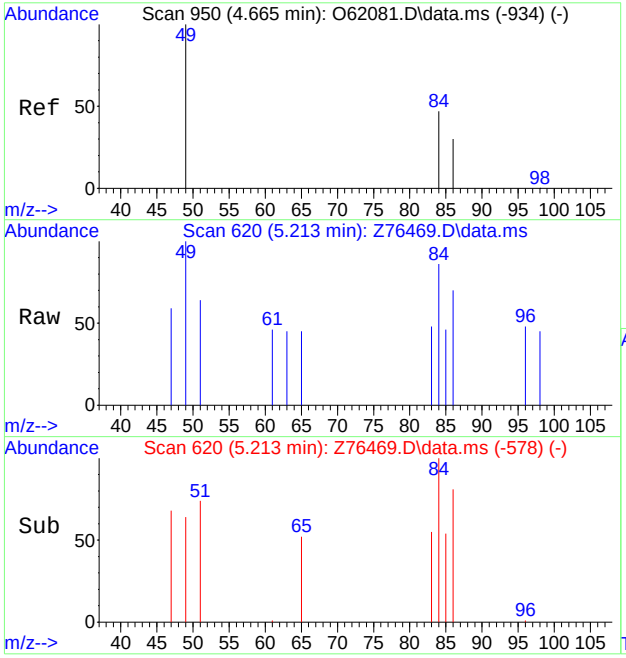


#3
Chloromethane
Concen: 0.15 ug/L
RT: 3.104 min Scan# 124
Delta R.T. -0.016 min
Lab File: Z76469.D
Acq: 19 Aug 2024 1:46 pm

Tgt Ion: 50 Resp: 144

Ion	Ratio	Lower	Upper
50	100		
52	16.4	2.1	62.1
49	21.8	0.0	41.2

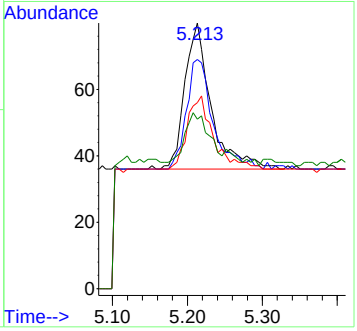


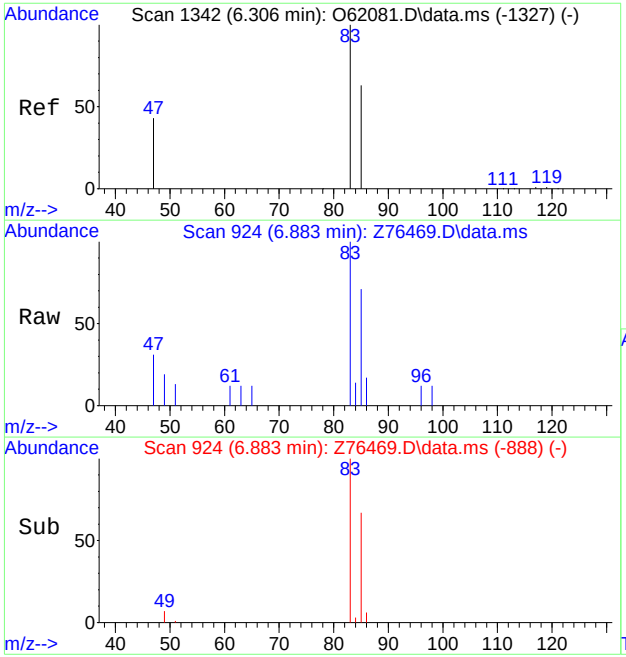


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.000 min
Lab File: Z76469.D
Acq: 19 Aug 2024 1:46 pm

Tgt Ion: 49 Resp: 107

Ion	Ratio	Lower	Upper
49	100		
84	75.0	49.7	109.7
86	45.5	22.0	82.0
51	29.5	1.1	61.1

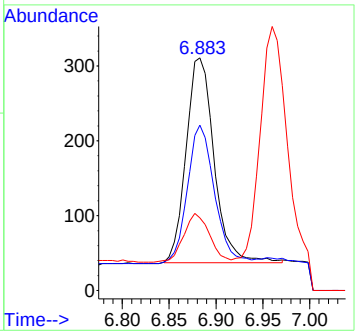


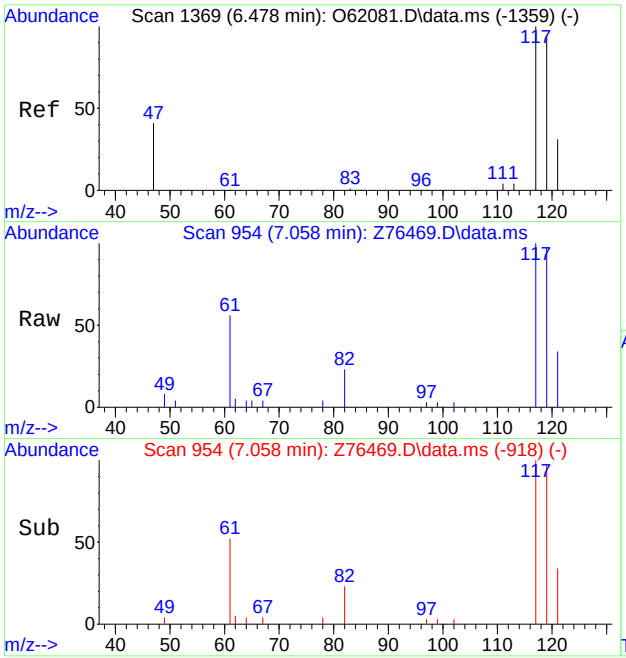


#9
Chloroform
Concen: 0.24 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76469.D
Acq: 19 Aug 2024 1:46 pm

Tgt Ion: 83 Resp: 571

Ion	Ratio	Lower	Upper
83	100		
85	71.1	35.9	95.9
47	31.2	0.0	51.0

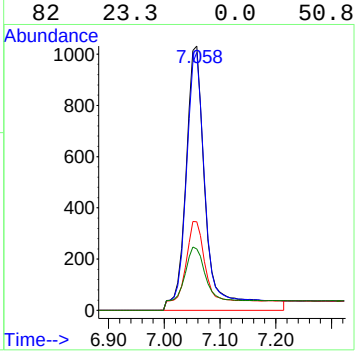


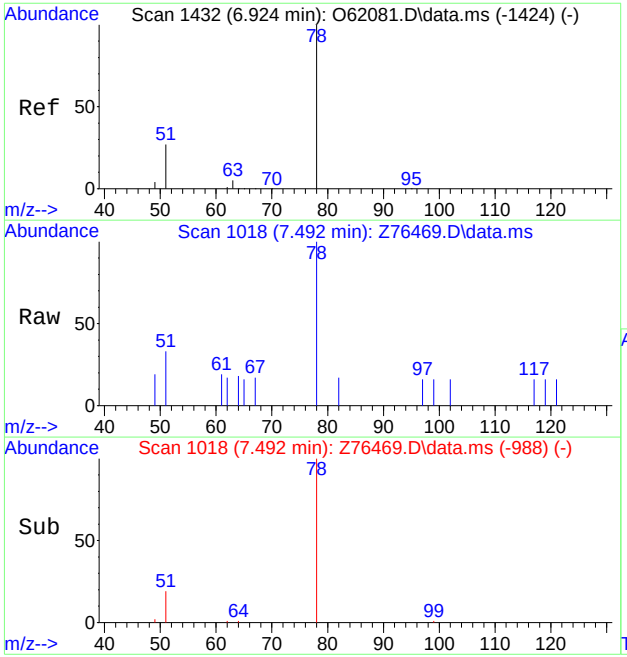


#10
Carbon Tetrachloride
Concen: 1.24 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76469.D
Acq: 19 Aug 2024 1:46 pm

Tgt Ion:117 Resp: 2582

Ion	Ratio	Lower	Upper
117	100		
119	97.5	66.2	126.2
121	33.5	1.2	61.2
82	23.3	0.0	50.8

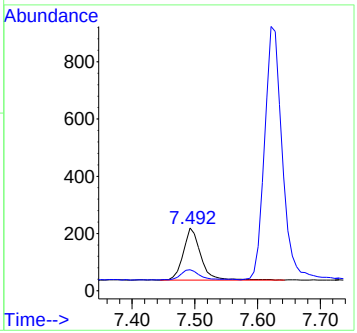




#12
Benzene
Concen: 0.13 ug/L
RT: 7.492 min Scan# 1018
Delta R.T. 0.000 min
Lab File: Z76469.D
Acq: 19 Aug 2024 1:46 pm

Tgt Ion: 78 Resp: 353

Ion	Ratio	Lower	Upper
78	100		
51	19.2	0.0	49.4



7.1.3

7

Manual Integration Approval Summary

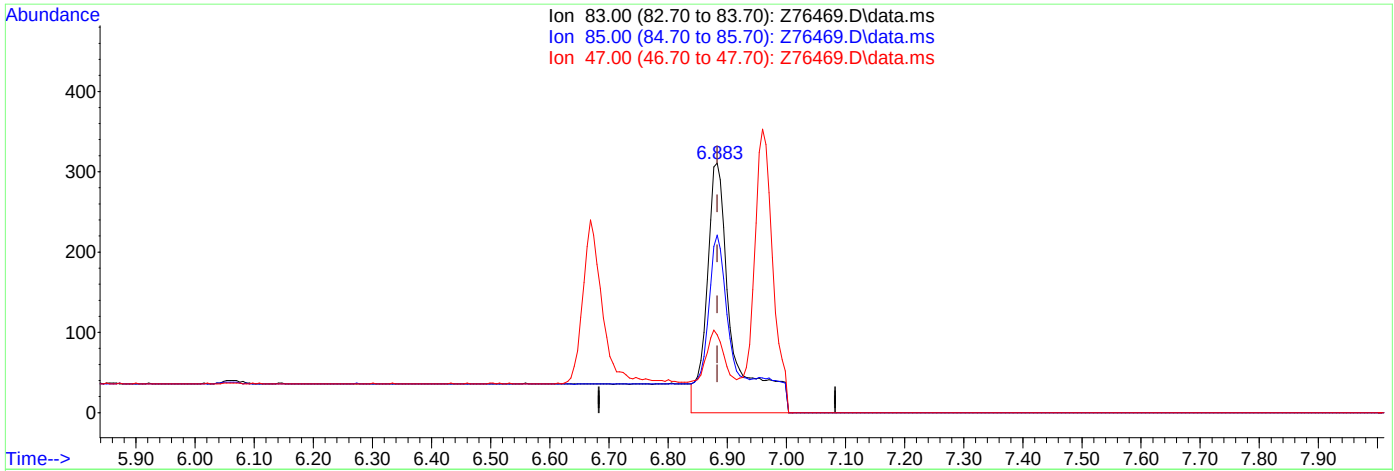
Sample Number: FC17980-3
Lab FileID: Z76469.D
Injection Time: 08/19/24 13:46
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

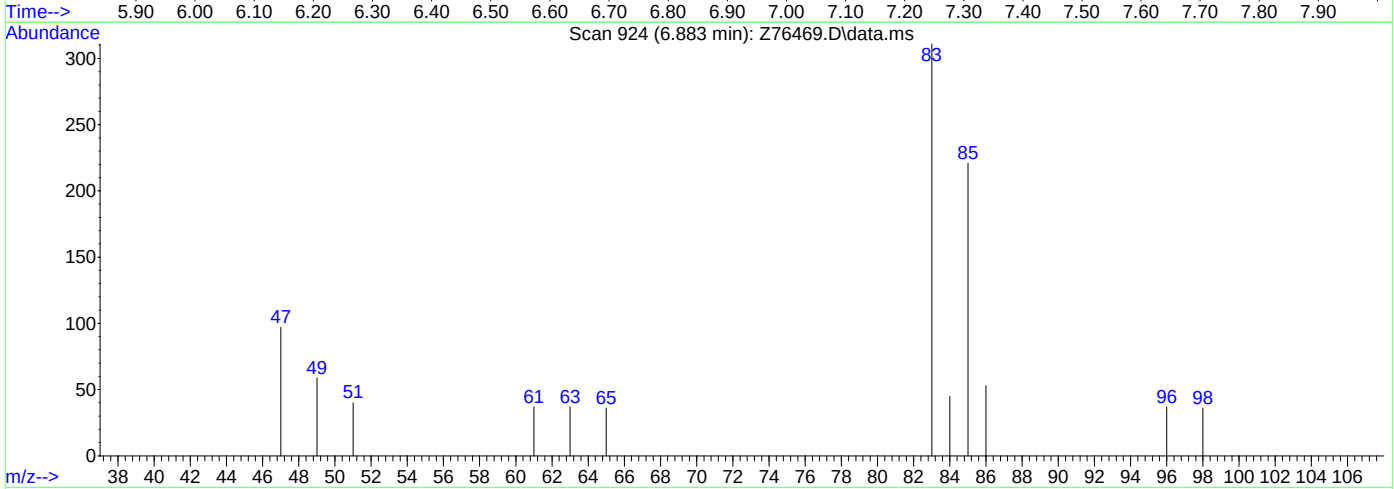
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76469.D
Acq On : 19 Aug 2024 1:46 pm
Operator : claudias
Sample : FC17980-3 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 06:47:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76469.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.40ug/L

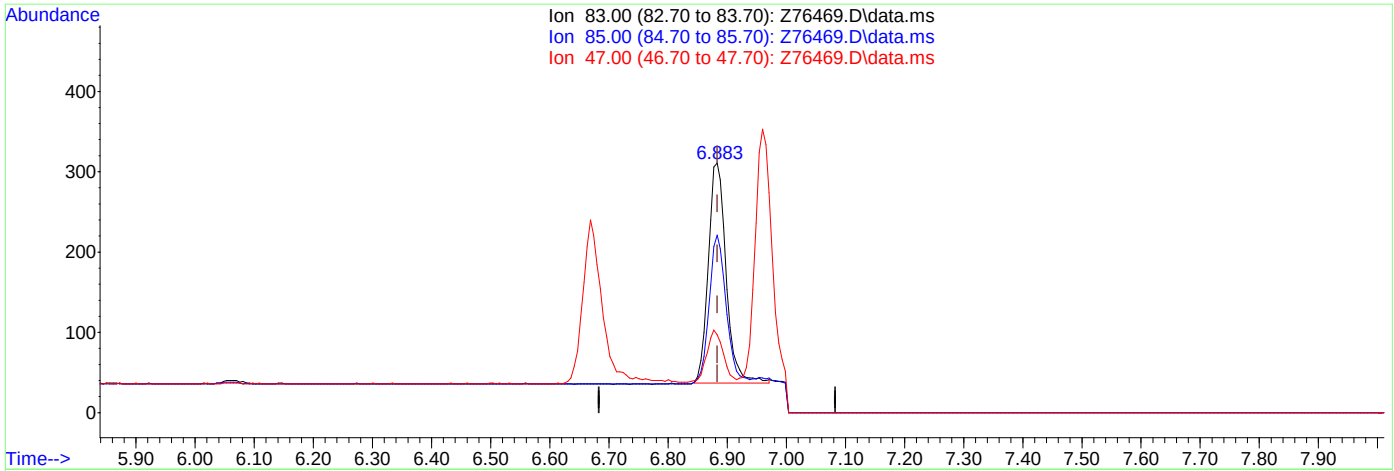
response 935

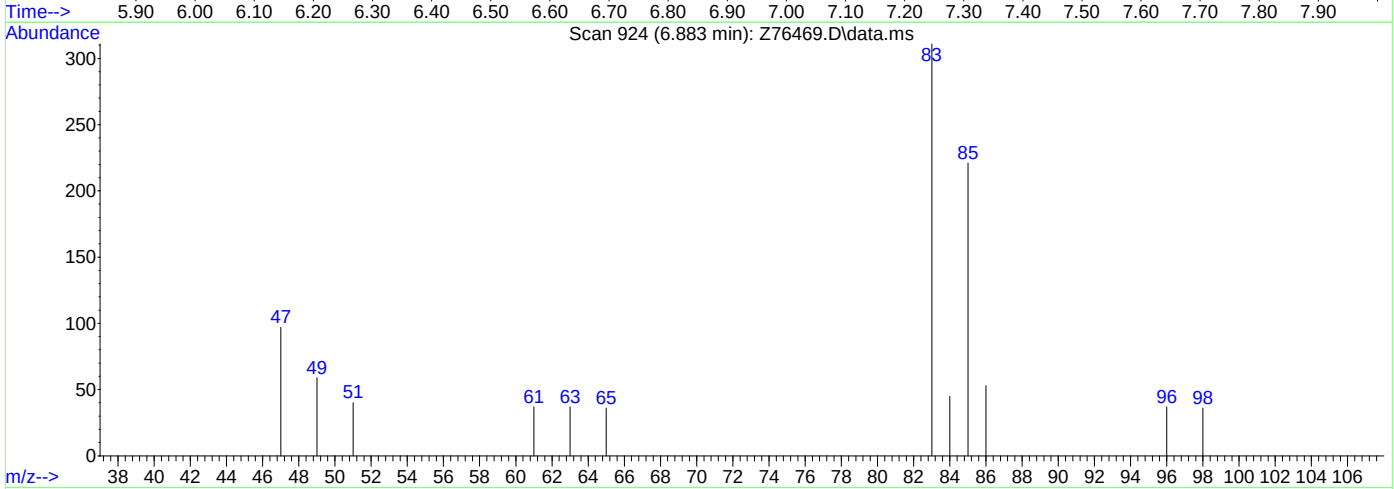
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	71.06
47.00	21.00	31.19
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76469.D
Acq On : 19 Aug 2024 1:46 pm
Operator : claudias
Sample : FC17980-3 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 16 Sample Multiplier: 1

Quant Time: Aug 20 06:47:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76469.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.24ug/L m

response 571

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	71.06
47.00	21.00	31.19
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76470.D
Acq On : 19 Aug 2024 2:09 pm
Operator : claudias
Sample : FC17980-4 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 20 07:19:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

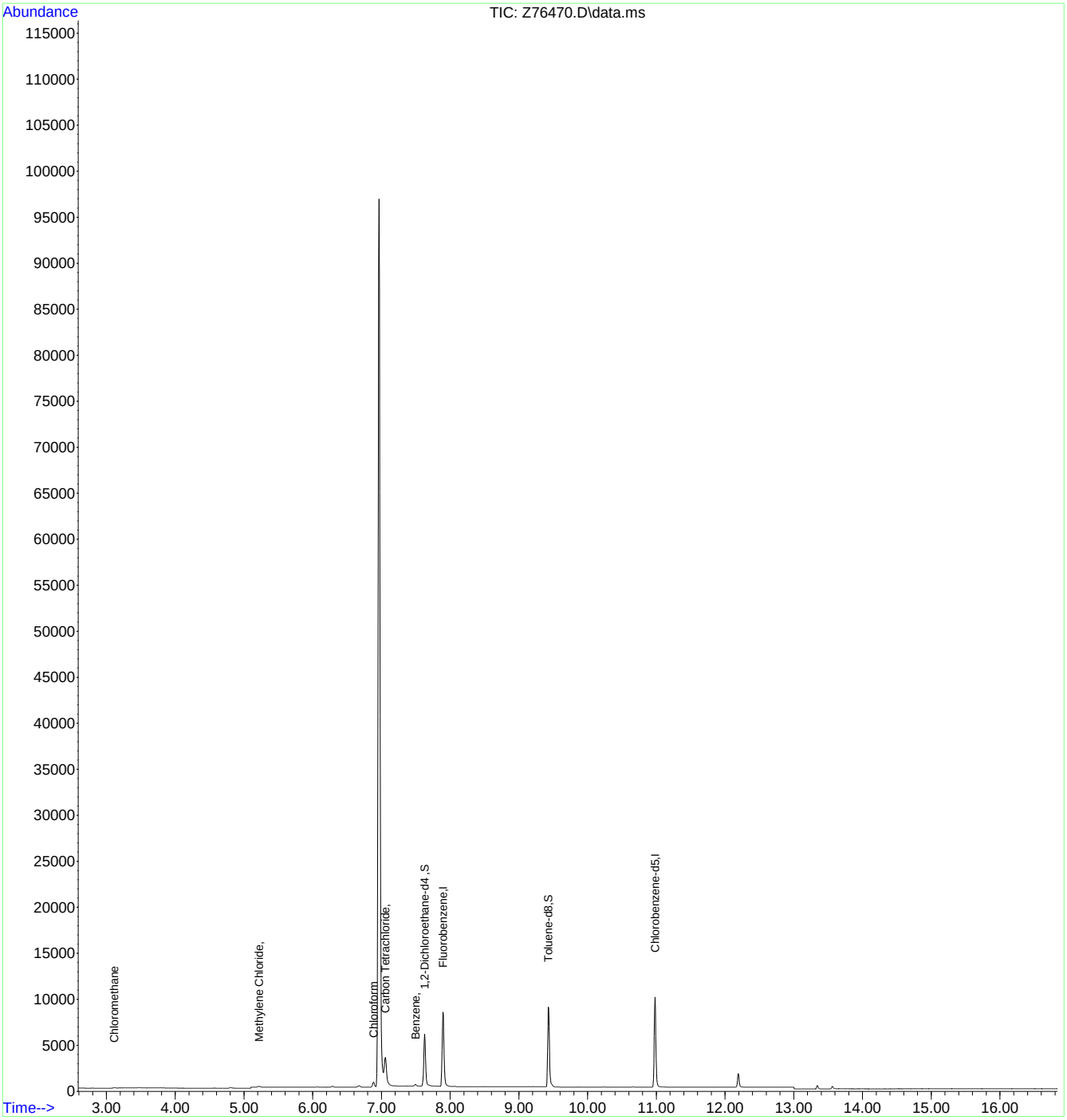
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10548	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	10781	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5532	5.49	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 109.80%			
19) Toluene-d8	9.428	98	9798	4.91	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 98.20%			
Target Compounds						Qvalue
3) Chloromethane	3.112	50	173	0.19	ug/L	82
5) Methylene Chloride	5.219	49	103	0.07	ug/L	94
9) Chloroform	6.883	83	572m	0.25	ug/L	
10) Carbon Tetrachloride	7.058	117	2561	1.29	ug/L	97
12) Benzene	7.499	78	319	0.13	ug/L	99

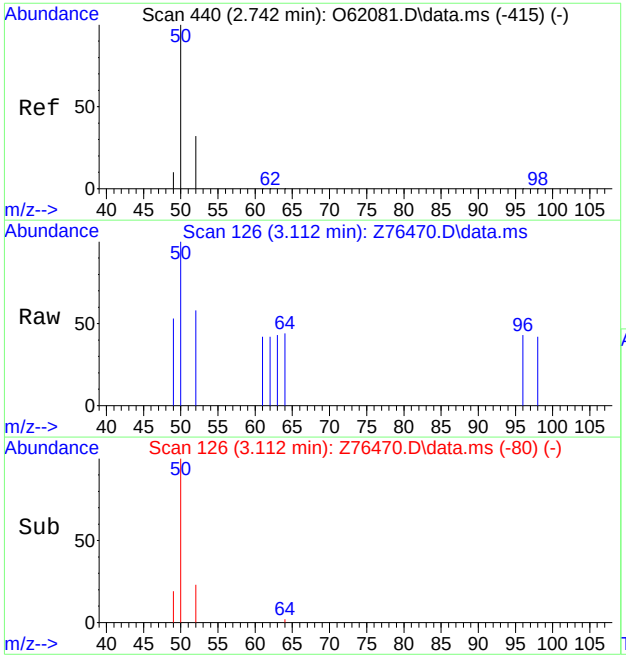
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76470.D
Acq On : 19 Aug 2024 2:09 pm
Operator : claudias
Sample : FC17980-4 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 20 07:19:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

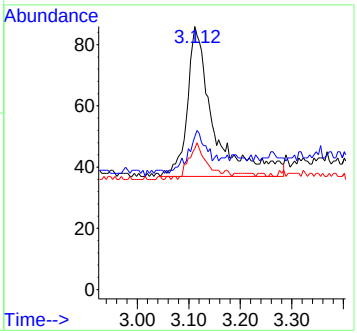


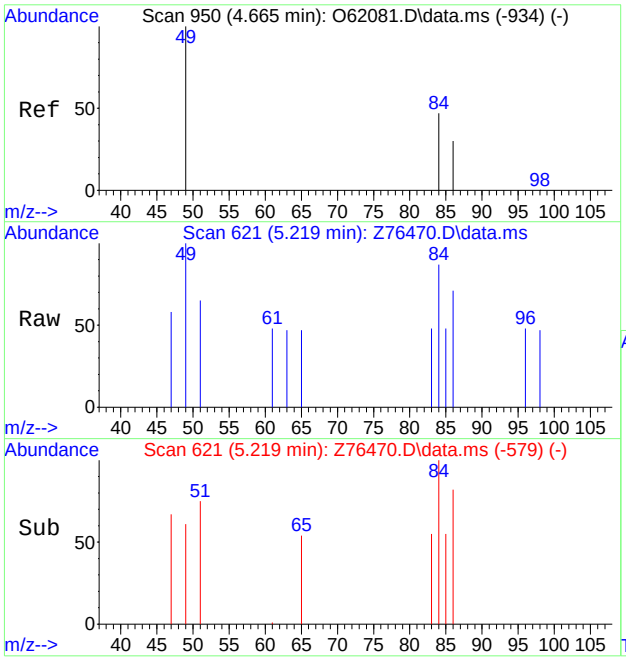


#3
Chloromethane
Concen: 0.19 ug/L
RT: 3.112 min Scan# 126
Delta R.T. -0.008 min
Lab File: Z76470.D
Acq: 19 Aug 2024 2:09 pm

Tgt Ion: 50 Resp: 173

Ion	Ratio	Lower	Upper
50	100		
52	22.4	2.1	62.1
49	18.4	0.0	41.2

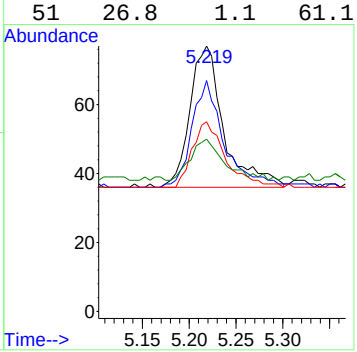


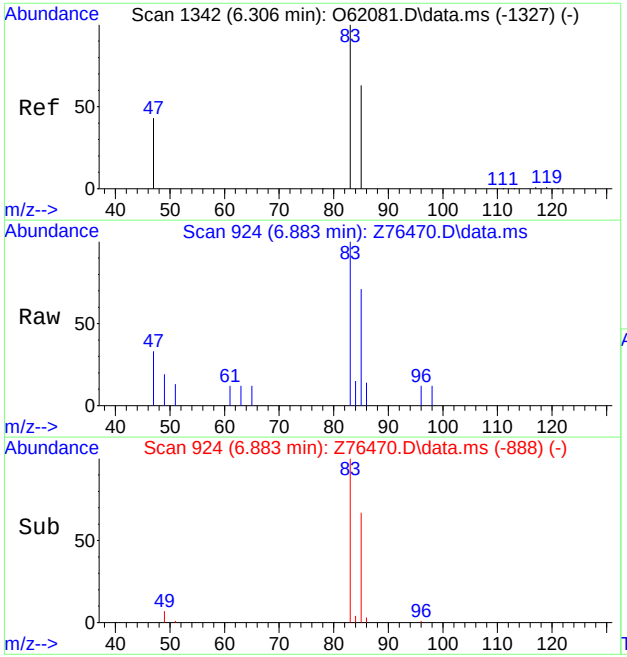


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.219 min Scan# 621
Delta R.T. 0.006 min
Lab File: Z76470.D
Acq: 19 Aug 2024 2:09 pm

Tgt Ion: 49 Resp: 103

Ion	Ratio	Lower	Upper
49	100		
84	75.6	49.7	109.7
86	46.3	22.0	82.0
51	26.8	1.1	61.1

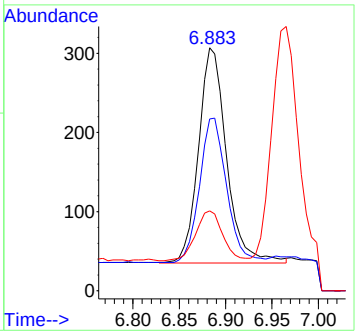


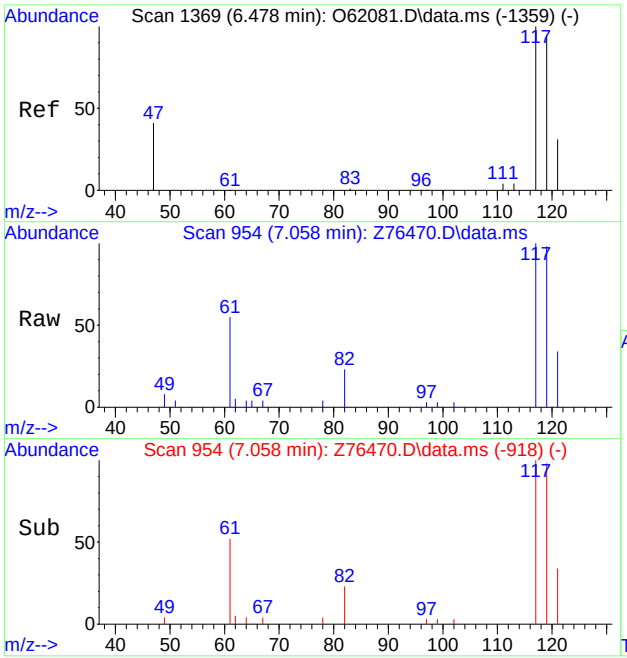


#9
Chloroform
Concen: 0.25 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76470.D
Acq: 19 Aug 2024 2:09 pm

Tgt Ion: 83 Resp: 572

Ion	Ratio	Lower	Upper
83	100		
85	70.7	35.9	95.9
47	32.9	0.0	51.0

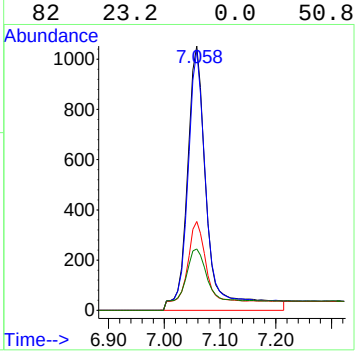


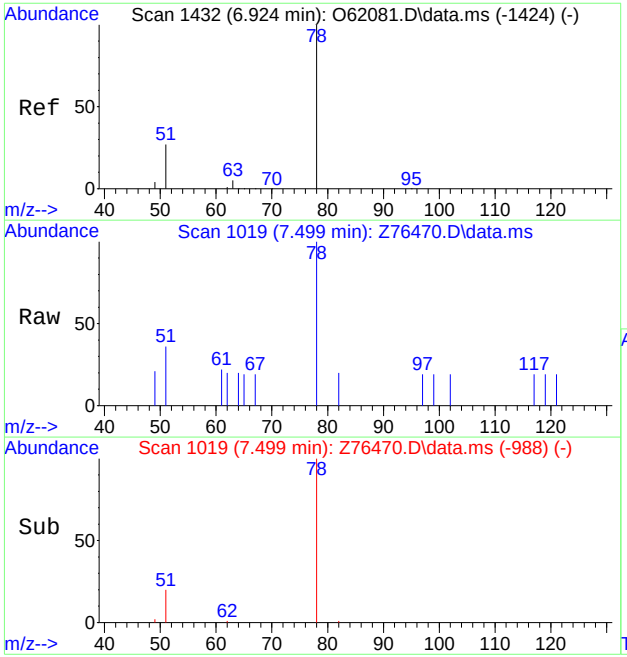


#10
Carbon Tetrachloride
Concen: 1.29 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76470.D
Acq: 19 Aug 2024 2:09 pm

Tgt Ion:117 Resp: 2561

Ion	Ratio	Lower	Upper
117	100		
119	98.3	66.2	126.2
121	33.6	1.2	61.2
82	23.2	0.0	50.8

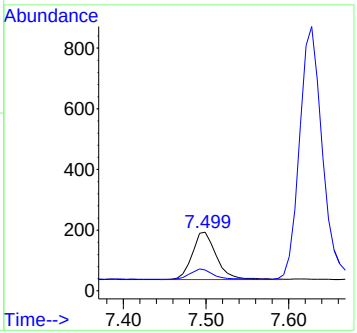




#12
Benzene
Concen: 0.13 ug/L
RT: 7.499 min Scan# 1019
Delta R.T. 0.007 min
Lab File: Z76470.D
Acq: 19 Aug 2024 2:09 pm

Tgt Ion: 78 Resp: 319

Ion	Ratio	Lower	Upper
78	100		
51	19.9	0.0	49.4



Manual Integration Approval Summary

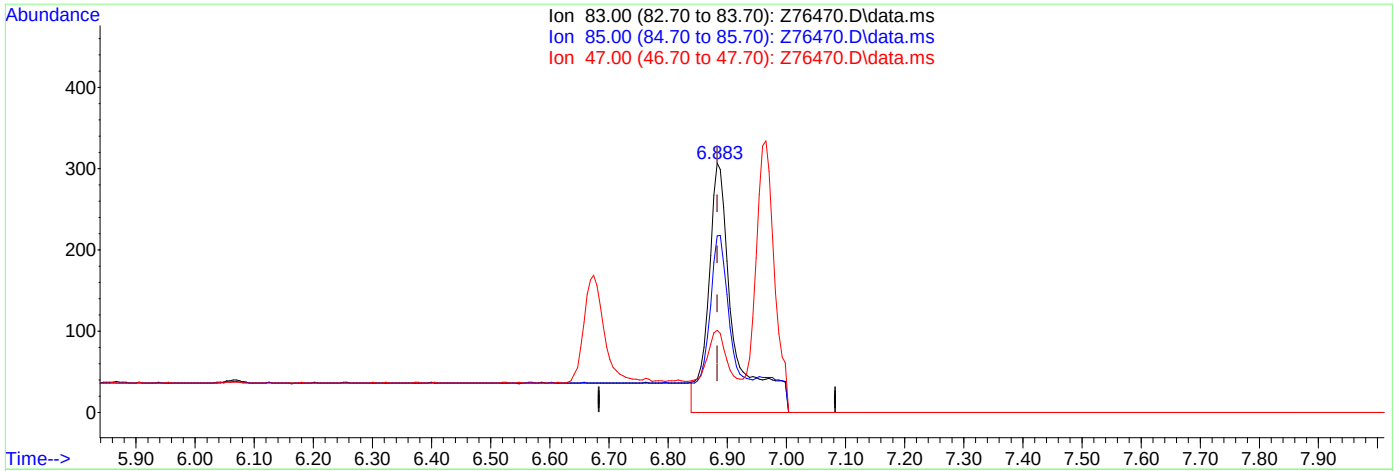
Sample Number: FC17980-4
Lab FileID: Z76470.D
Injection Time: 08/19/24 14:09
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

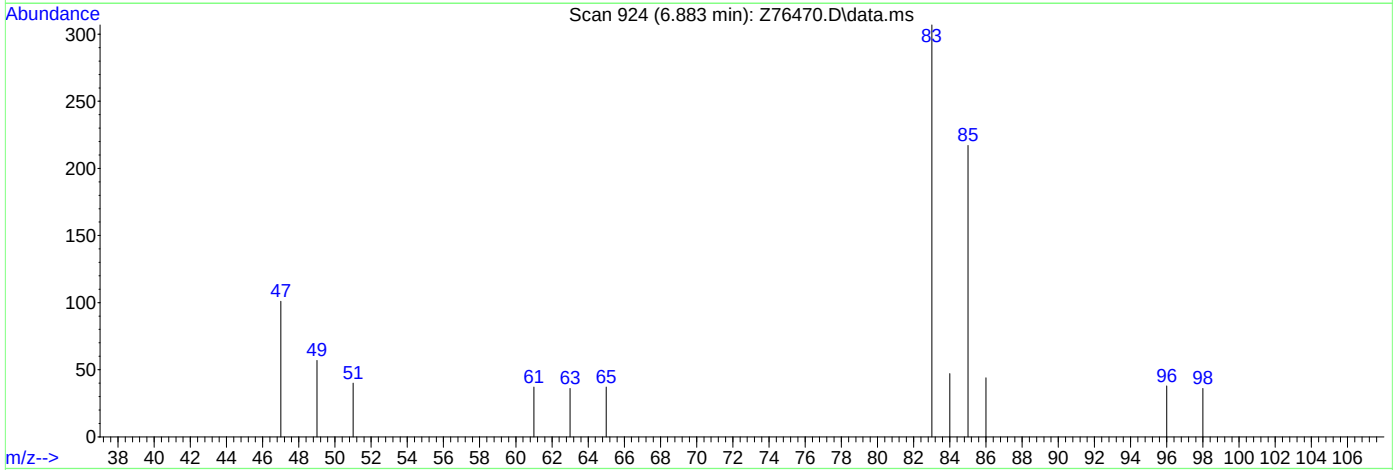
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76470.D
Acq On : 19 Aug 2024 2:09 pm
Operator : claudias
Sample : FC17980-4 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 20 06:47:12 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76470.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.41ug/L

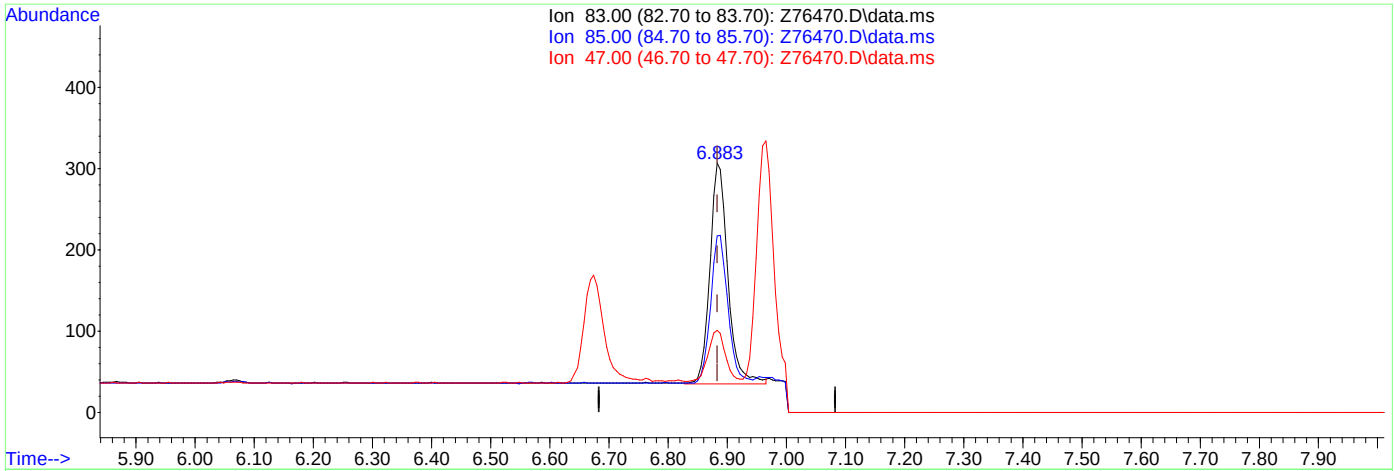
response 922

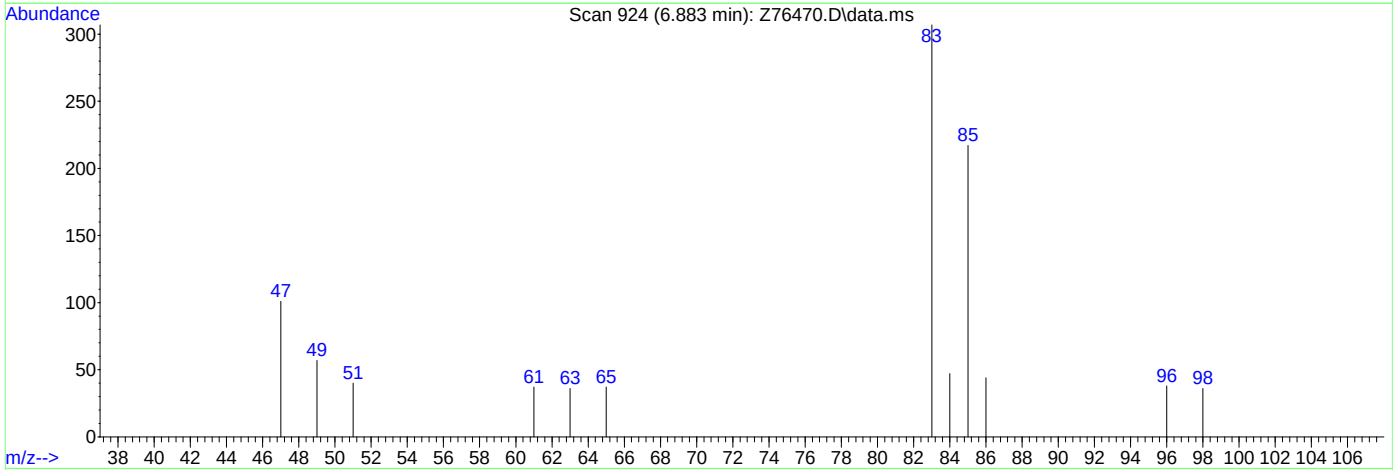
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.68
47.00	21.00	32.90
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76470.D
Acq On : 19 Aug 2024 2:09 pm
Operator : claudias
Sample : FC17980-4 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 17 Sample Multiplier: 1

Quant Time: Aug 20 06:47:12 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76470.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.25ug/L m

response 572

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.68
47.00	21.00	32.90
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76471.D
Acq On : 19 Aug 2024 2:32 pm
Operator : claudias
Sample : FC17980-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 07:24:34 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

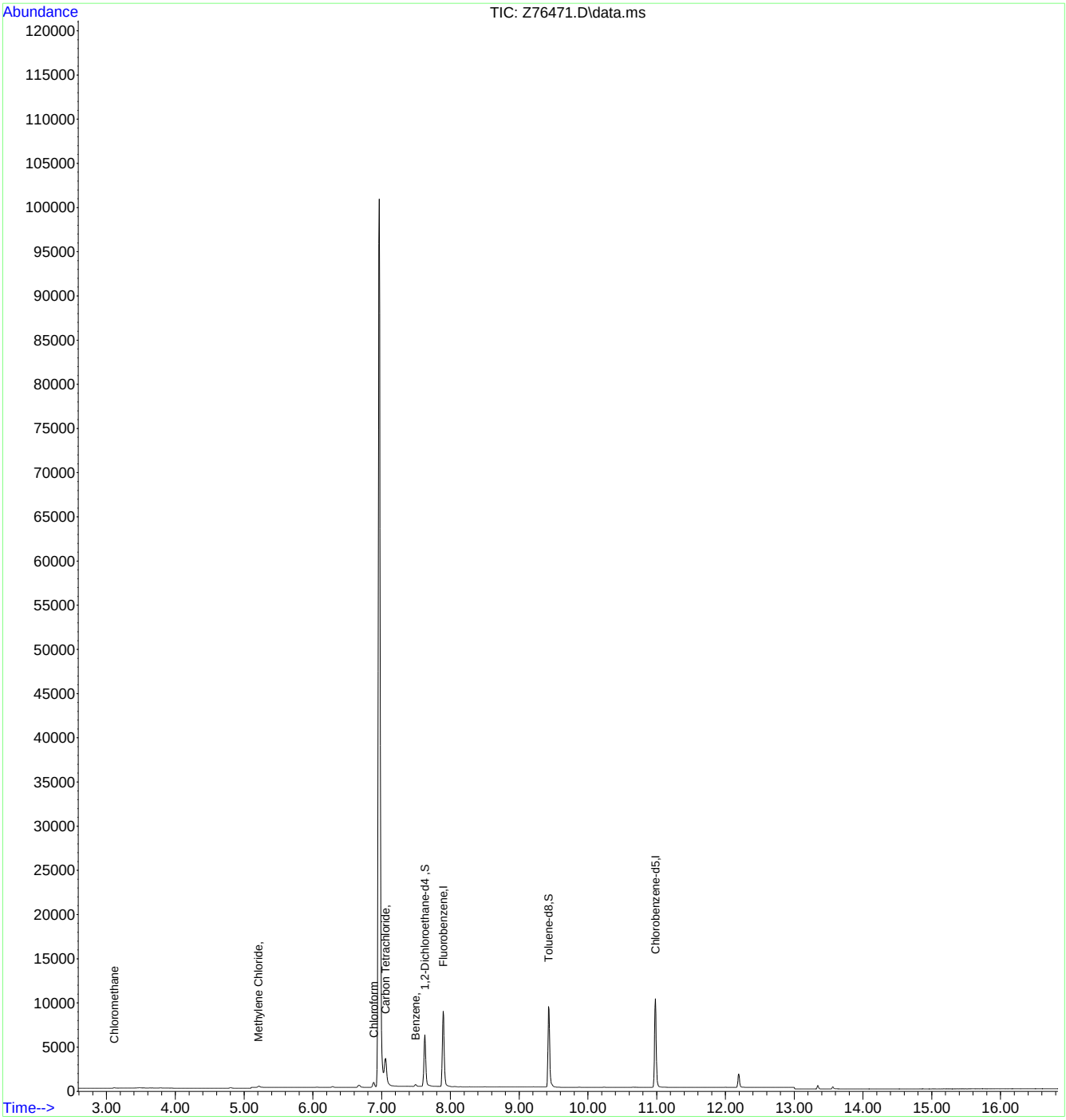
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10925	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11131	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5718	5.48	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 109.60%			
19) Toluene-d8	9.428	98	10056	4.88	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.60%			
Target Compounds						Qvalue
3) Chloromethane	3.112	50	163	0.17	ug/L	78
5) Methylene Chloride	5.208	49	132	0.08	ug/L	87
9) Chloroform	6.883	83	592m	0.25	ug/L	
10) Carbon Tetrachloride	7.058	117	2592	1.26	ug/L	96
12) Benzene	7.492	78	317	0.12	ug/L	95

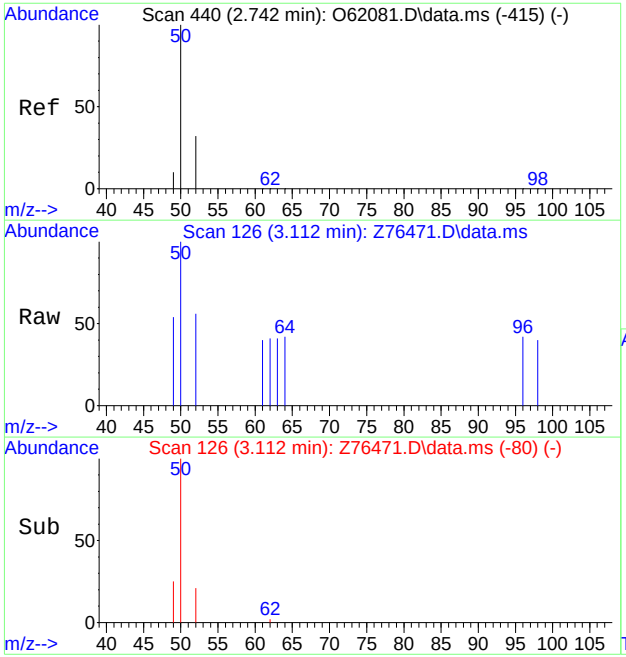
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76471.D
Acq On : 19 Aug 2024 2:32 pm
Operator : claudias
Sample : FC17980-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 07:24:34 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

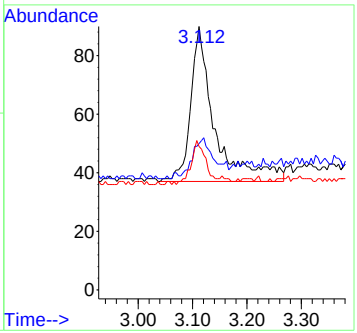


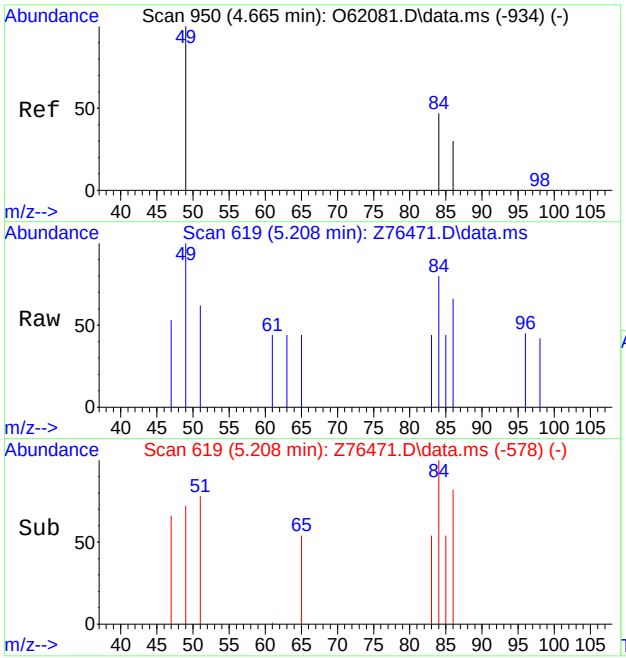


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.112 min Scan# 126
Delta R.T. -0.008 min
Lab File: Z76471.D
Acq: 19 Aug 2024 2:32 pm

Tgt Ion: 50 Resp: 163

Ion	Ratio	Lower	Upper
50	100		
52	22.6	2.1	62.1
49	24.5	0.0	41.2

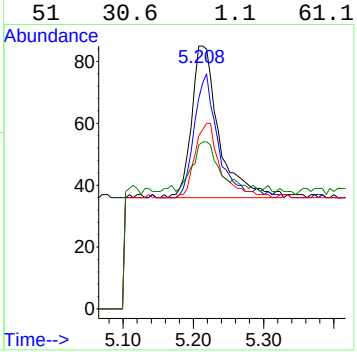


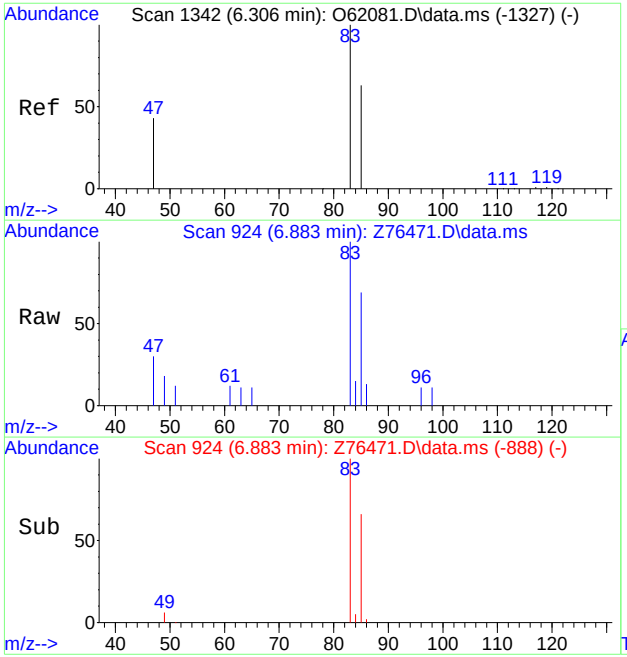


#5
Methylene Chloride
Concen: 0.08 ug/L
RT: 5.208 min Scan# 619
Delta R.T. -0.005 min
Lab File: Z76471.D
Acq: 19 Aug 2024 2:32 pm

Tgt Ion: 49 Resp: 132

Ion	Ratio	Lower	Upper
49	100		
84	65.3	49.7	109.7
86	40.8	22.0	82.0
51	30.6	1.1	61.1

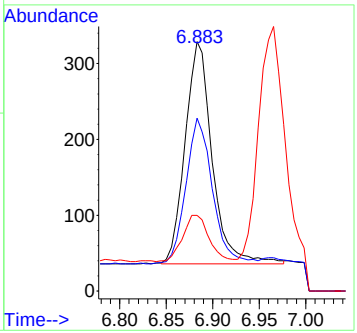


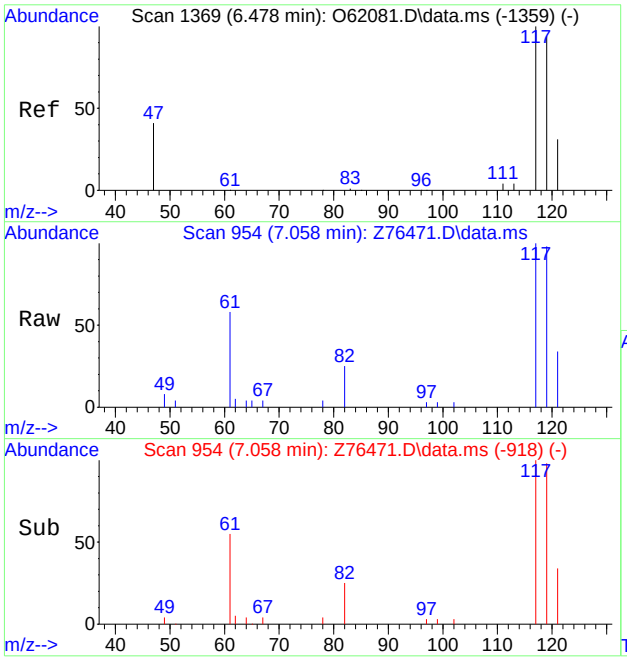


#9
Chloroform
Concen: 0.25 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. 0.000 min
Lab File: Z76471.D
Acq: 19 Aug 2024 2:32 pm

Tgt Ion: 83 Resp: 592

Ion	Ratio	Lower	Upper
83	100		
85	69.3	35.9	95.9
47	30.4	0.0	51.0

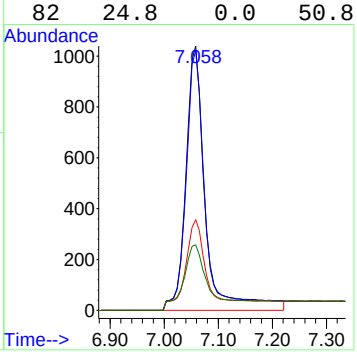


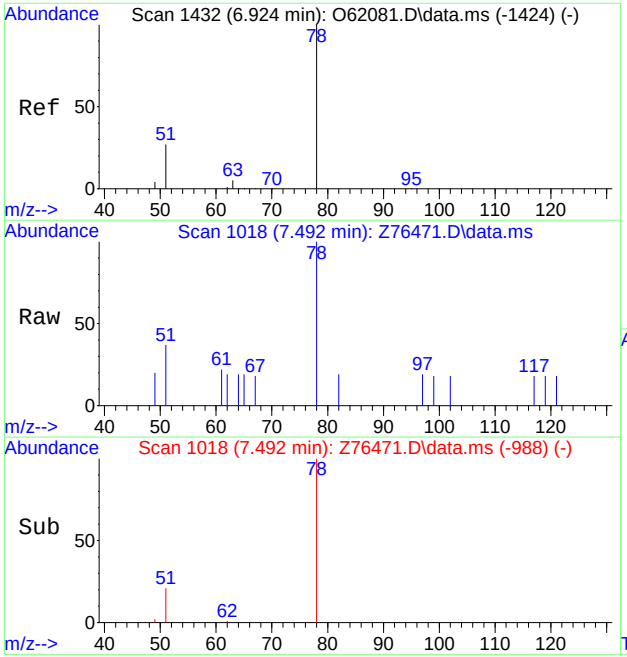


#10
Carbon Tetrachloride
Concen: 1.26 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76471.D
Acq: 19 Aug 2024 2:32 pm

Tgt Ion:117 Resp: 2592

Ion	Ratio	Lower	Upper
117	100		
119	98.2	66.2	126.2
121	34.3	1.2	61.2
82	24.8	0.0	50.8

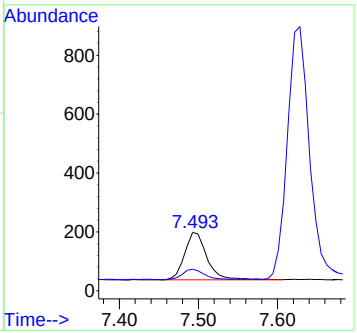




#12
Benzene
Concen: 0.12 ug/L
RT: 7.492 min Scan# 1018
Delta R.T. 0.000 min
Lab File: Z76471.D
Acq: 19 Aug 2024 2:32 pm

Tgt Ion: 78 Resp: 317

Ion	Ratio	Lower	Upper
78	100		
51	21.7	0.0	49.4



7.1.5

7

Manual Integration Approval Summary

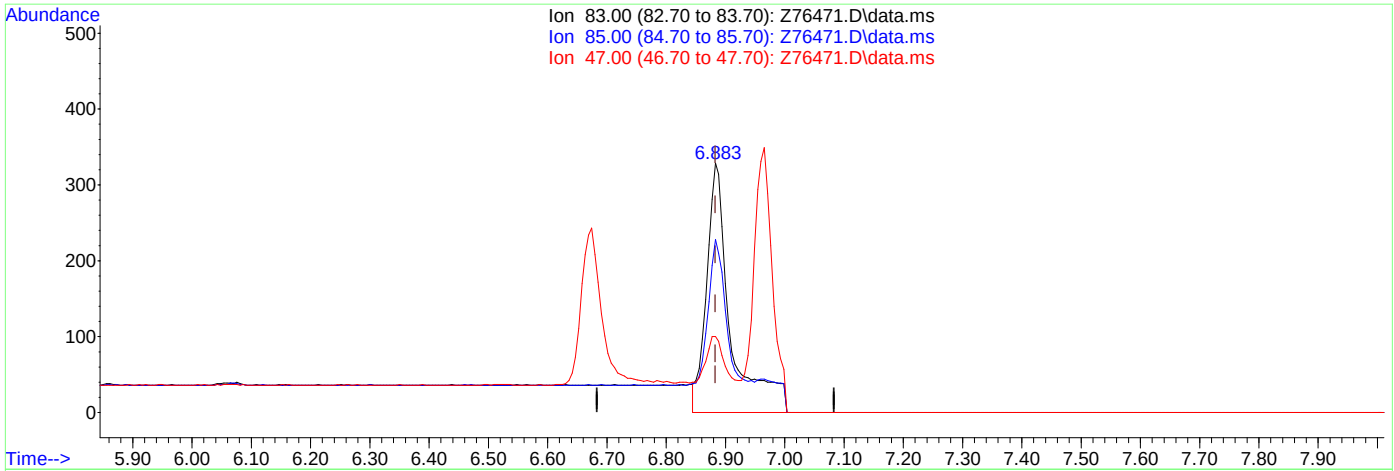
Sample Number: FC17980-5
Lab FileID: Z76471.D
Injection Time: 08/19/24 14:32
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

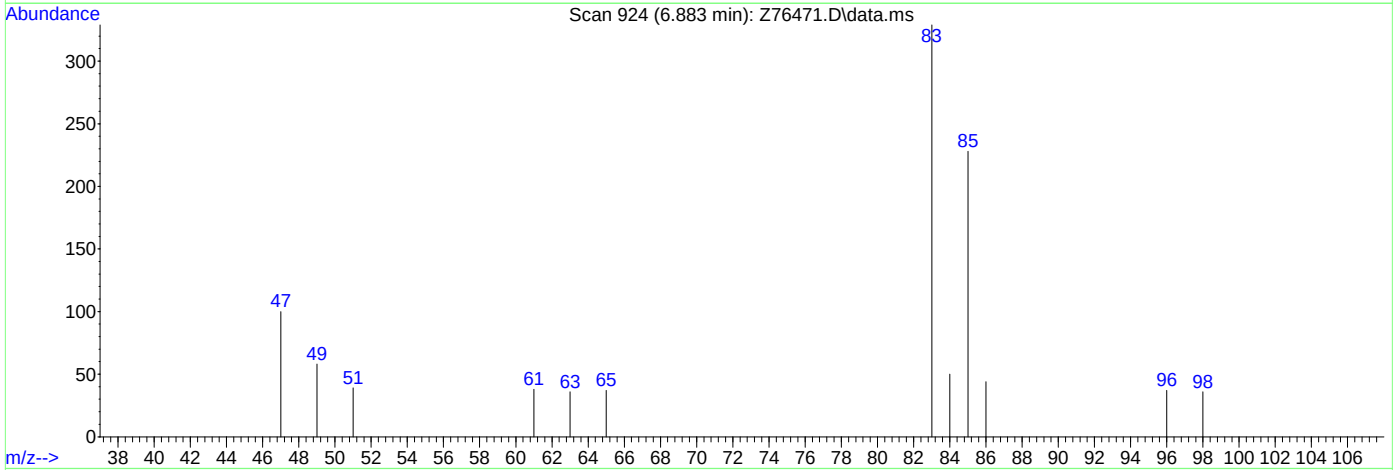
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76471.D
Acq On : 19 Aug 2024 2:32 pm
Operator : claudias
Sample : FC17980-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 06:47:14 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76471.D\data.ms

(9) Chloroform

6.883min (0.000) 0.40ug/L

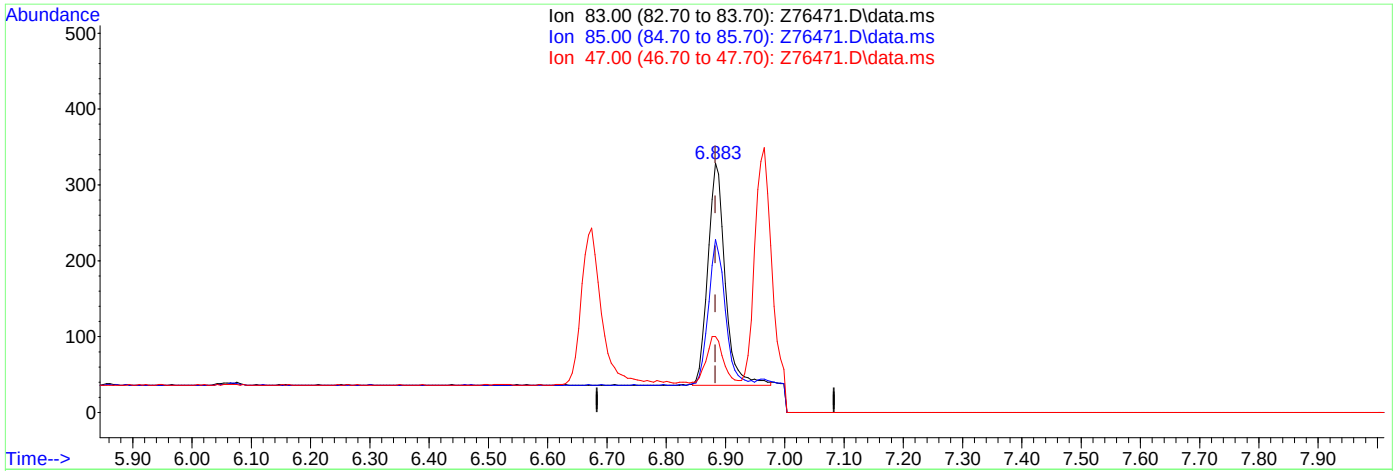
response 935

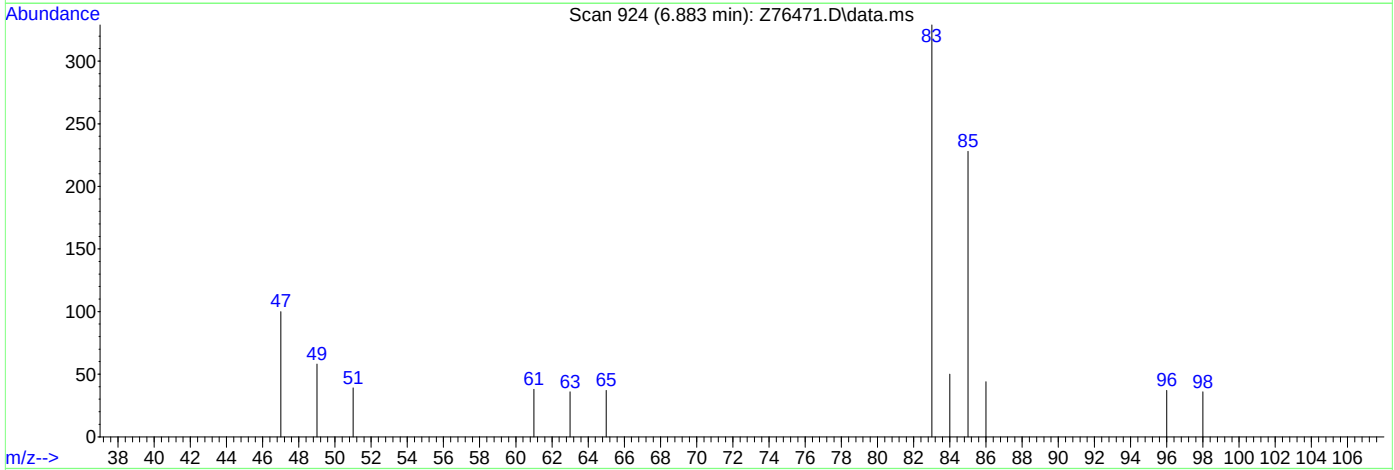
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.30
47.00	21.00	30.40
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76471.D
Acq On : 19 Aug 2024 2:32 pm
Operator : claudias
Sample : FC17980-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Aug 20 06:47:14 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76471.D\data.ms

(9) Chloroform

6.883min (0.000) 0.25ug/L m

response 592

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.30
47.00	21.00	30.40
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76472.D
Acq On : 19 Aug 2024 2:55 pm
Operator : claudias
Sample : FC17980-6 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 07:38:33 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

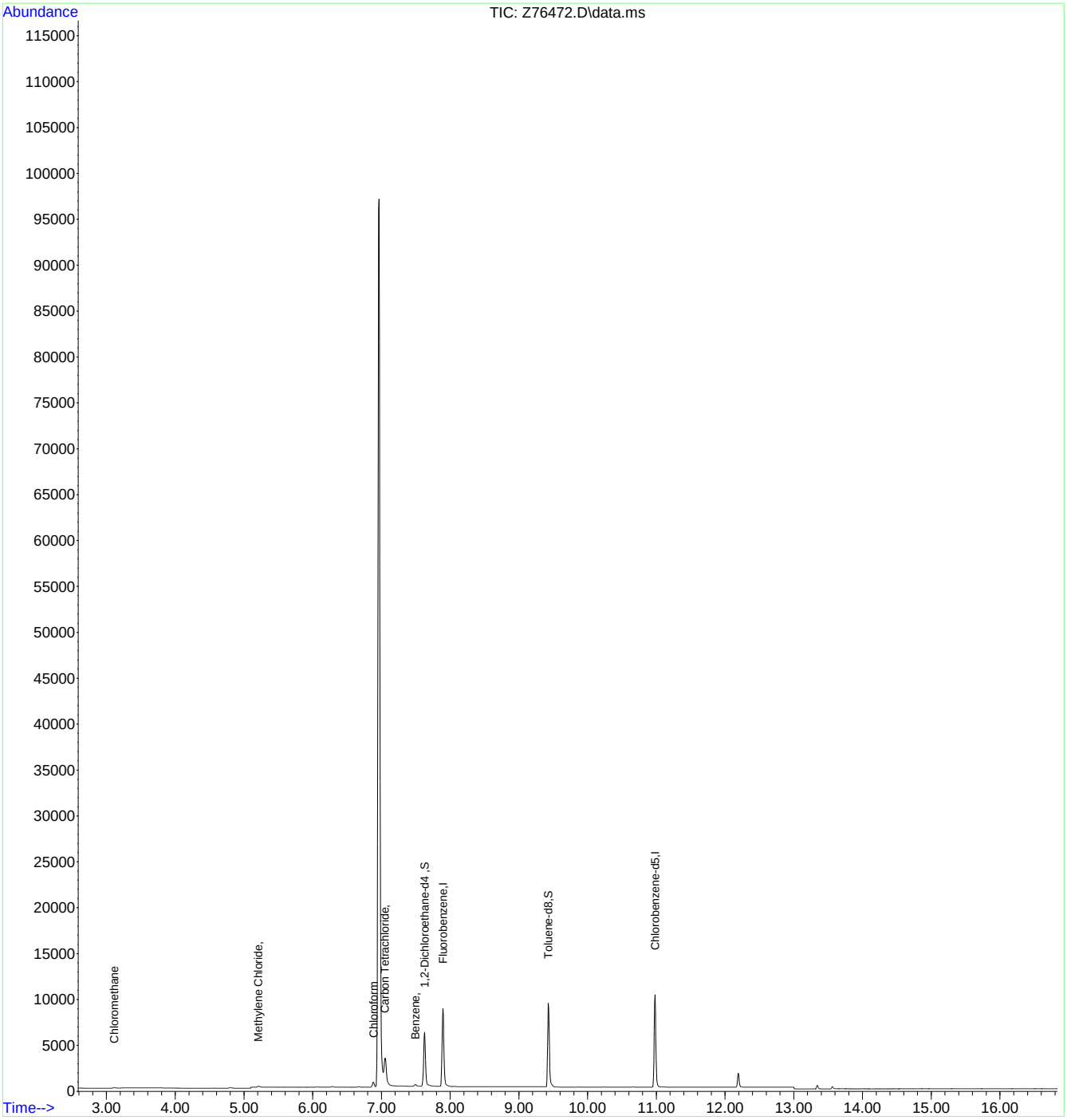
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10883	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11262	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5795	5.58	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 111.60%			
19) Toluene-d8	9.428	98	10116	4.85	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.00%			
Target Compounds						Qvalue
3) Chloromethane	3.112	50	132	0.14	ug/L	77
5) Methylene Chloride	5.208	49	117	0.07	ug/L	87
9) Chloroform	6.883	83	563m	0.24	ug/L	
10) Carbon Tetrachloride	7.051	117	2517	1.22	ug/L	98
12) Benzene	7.492	78	309	0.12	ug/L	99

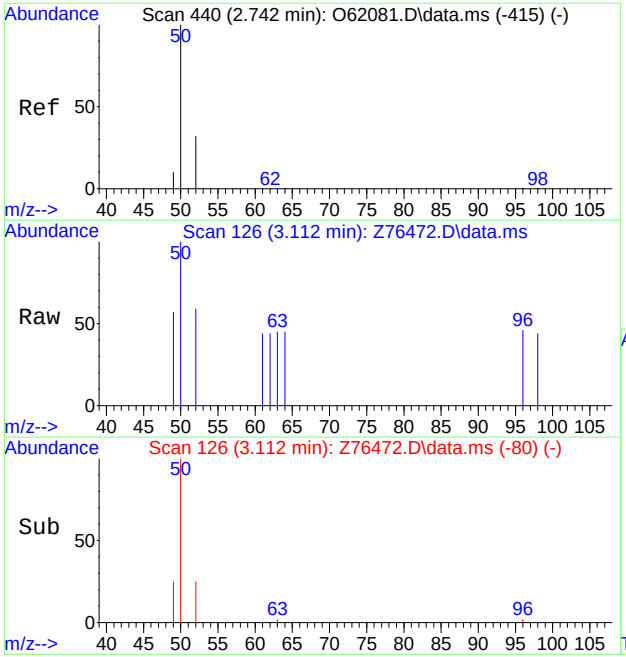
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76472.D
Acq On : 19 Aug 2024 2:55 pm
Operator : claudias
Sample : FC17980-6 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 07:38:33 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

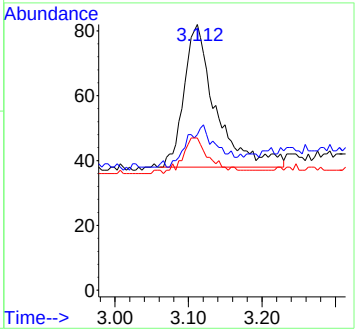


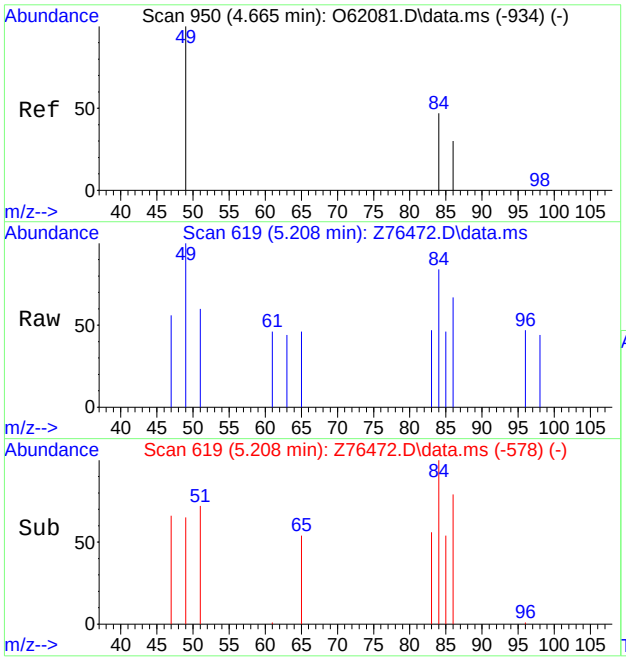


#3
Chloromethane
Concen: 0.14 ug/L
RT: 3.112 min Scan# 126
Delta R.T. -0.008 min
Lab File: Z76472.D
Acq: 19 Aug 2024 2:55 pm

Tgt Ion: 50 Resp: 132

Ion	Ratio	Lower	Upper
50	100		
52	20.5	2.1	62.1
49	22.7	0.0	41.2

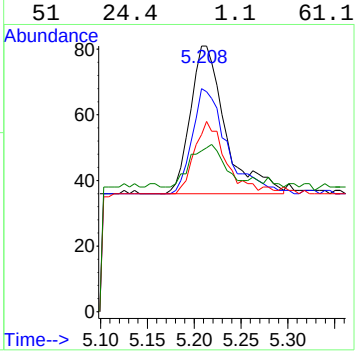


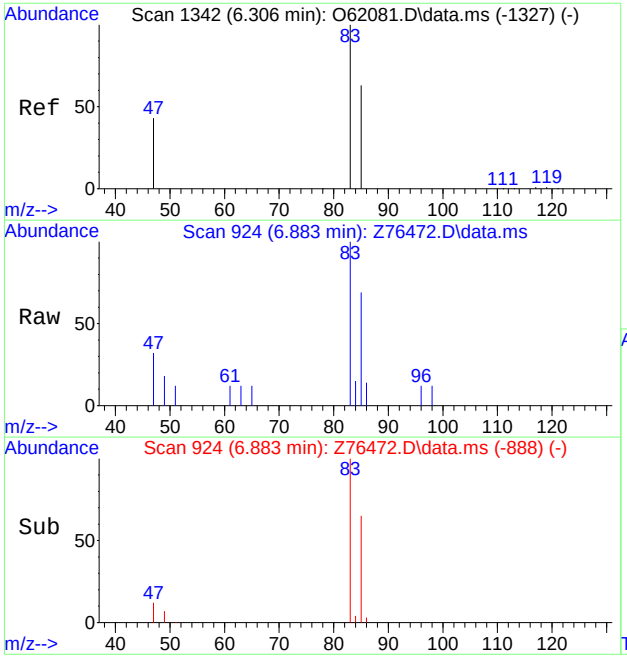


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.208 min Scan# 619
Delta R.T. -0.005 min
Lab File: Z76472.D
Acq: 19 Aug 2024 2:55 pm

Tgt Ion: 49 Resp: 117

Ion	Ratio	Lower	Upper
49	100		
84	71.1	49.7	109.7
86	40.0	22.0	82.0
51	24.4	1.1	61.1

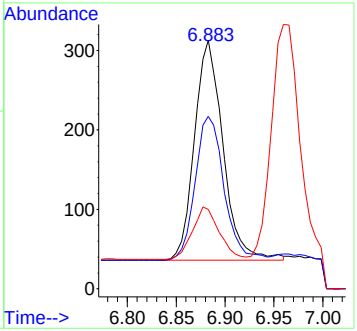


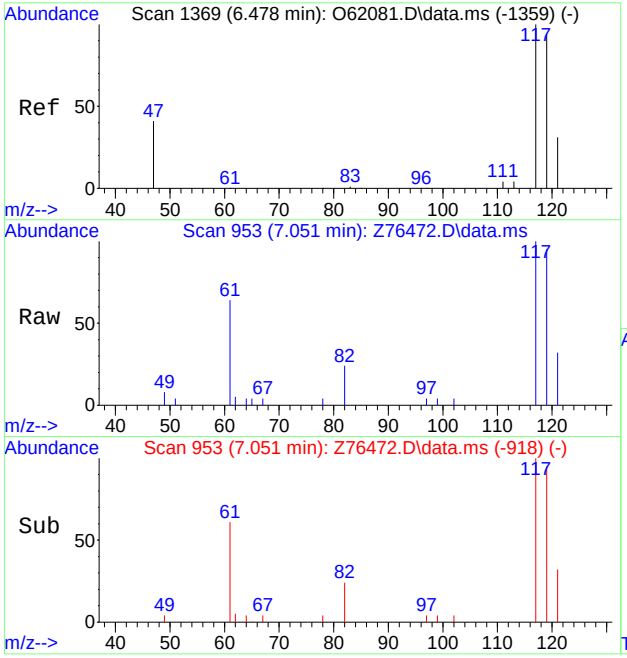


#9
Chloroform
Concen: 0.24 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76472.D
Acq: 19 Aug 2024 2:55 pm

Tgt Ion: 83 Resp: 563

Ion	Ratio	Lower	Upper
83	100		
85	69.3	35.9	95.9
47	31.9	0.0	51.0

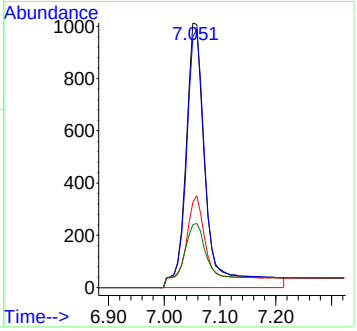


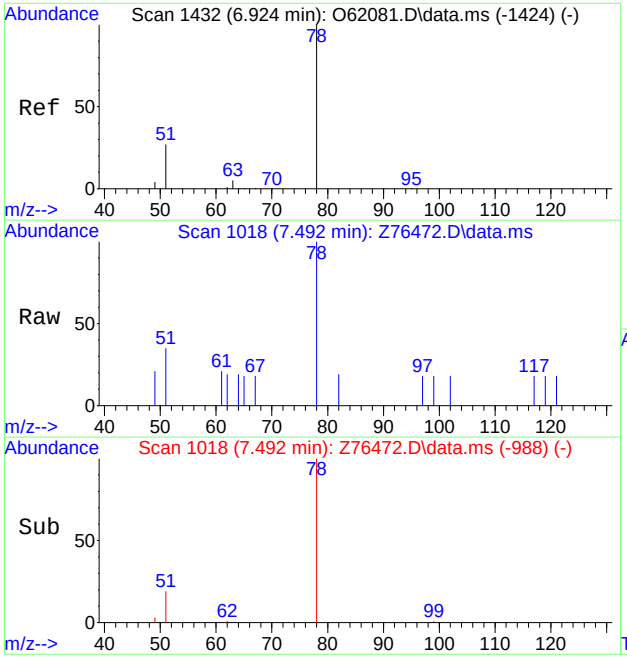


#10
Carbon Tetrachloride
Concen: 1.22 ug/L
RT: 7.051 min Scan# 953
Delta R.T. 0.000 min
Lab File: Z76472.D
Acq: 19 Aug 2024 2:55 pm

Tgt Ion:117 Resp: 2517

Ion	Ratio	Lower	Upper
117	100		
119	94.8	66.2	126.2
121	32.2	1.2	61.2
82	23.8	0.0	50.8

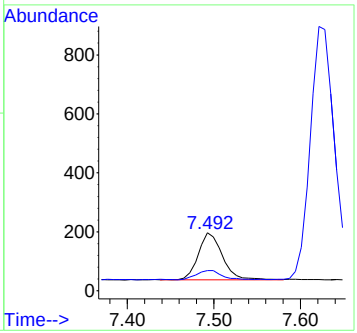




#12
Benzene
Concen: 0.12 ug/L
RT: 7.492 min Scan# 1018
Delta R.T. 0.000 min
Lab File: Z76472.D
Acq: 19 Aug 2024 2:55 pm

Tgt Ion: 78 Resp: 309

Ion	Ratio	Lower	Upper
78	100		
51	18.8	0.0	49.4



7.1.6

7

Manual Integration Approval Summary

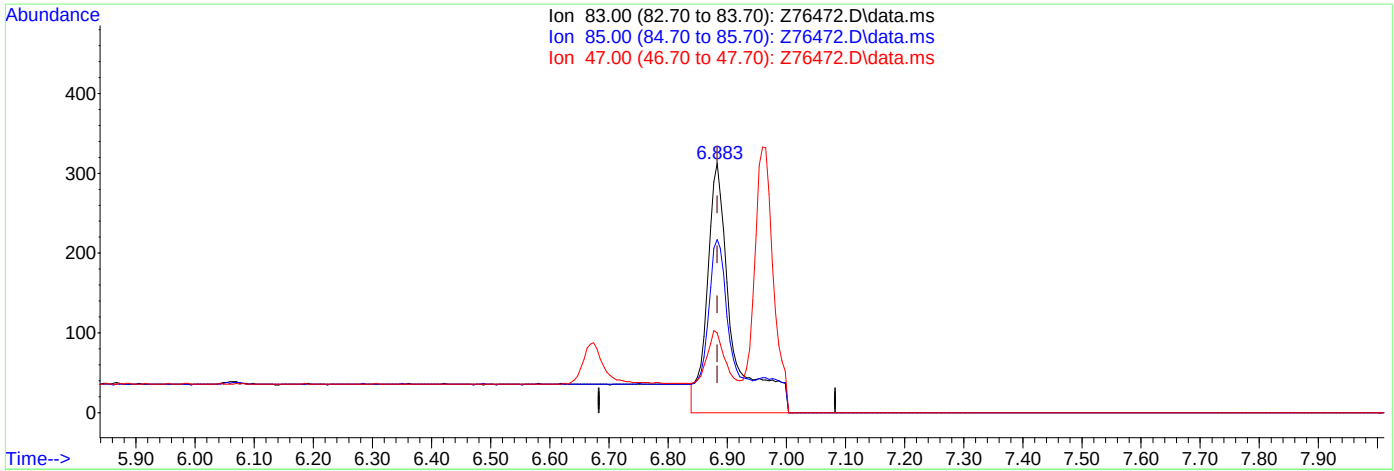
Sample Number: FC17980-6
Lab FileID: Z76472.D
Injection Time: 08/19/24 14:55
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

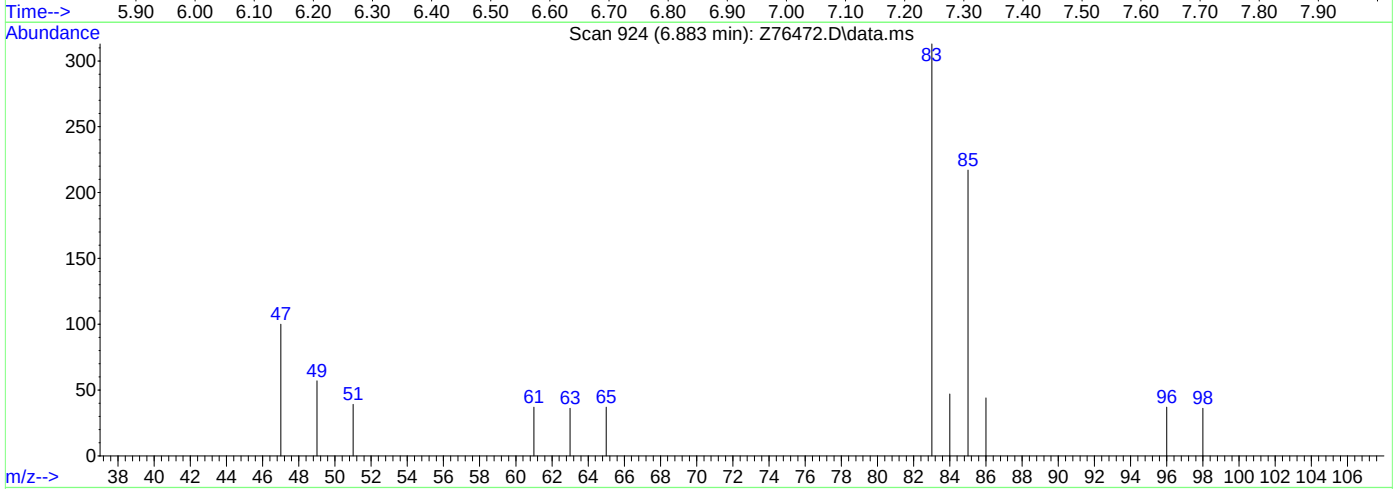
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76472.D
Acq On : 19 Aug 2024 2:55 pm
Operator : claudias
Sample : FC17980-6 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 06:47:16 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76472.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.39ug/L

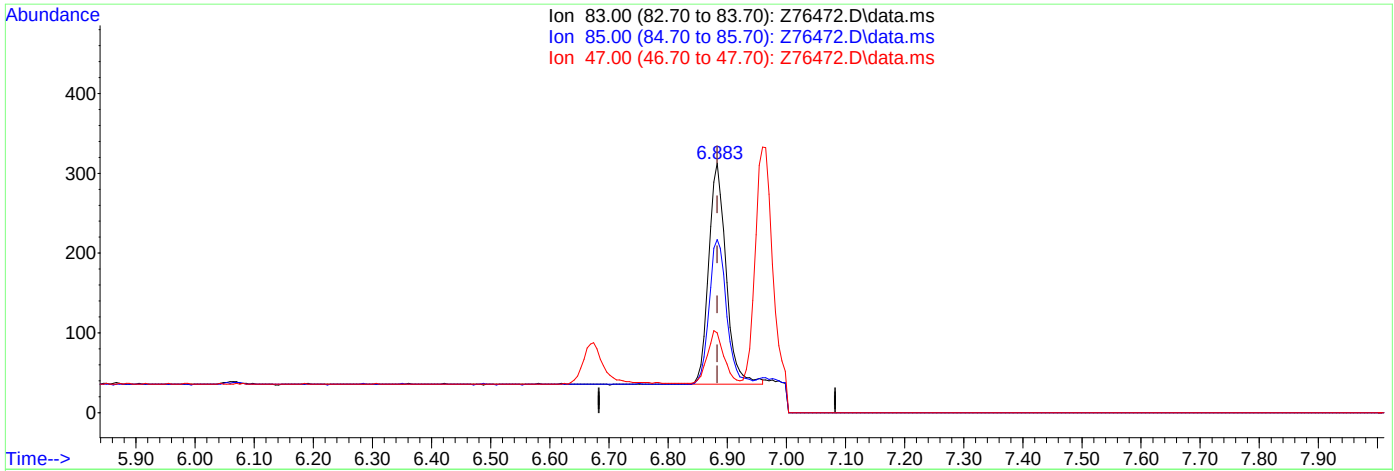
response 921

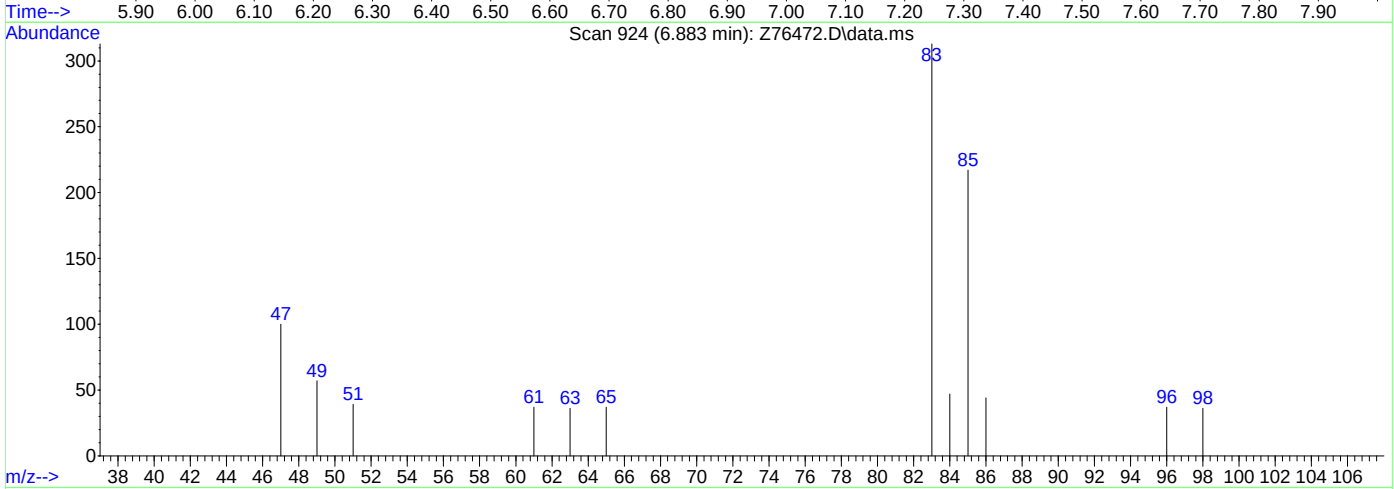
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.33
47.00	21.00	31.95
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76472.D
Acq On : 19 Aug 2024 2:55 pm
Operator : claudias
Sample : FC17980-6 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Aug 20 06:47:16 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76472.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.24ug/L m

response 563

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.33
47.00	21.00	31.95
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76473.D
Acq On : 19 Aug 2024 3:18 pm
Operator : claudias
Sample : FC17980-7 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 07:40:59 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

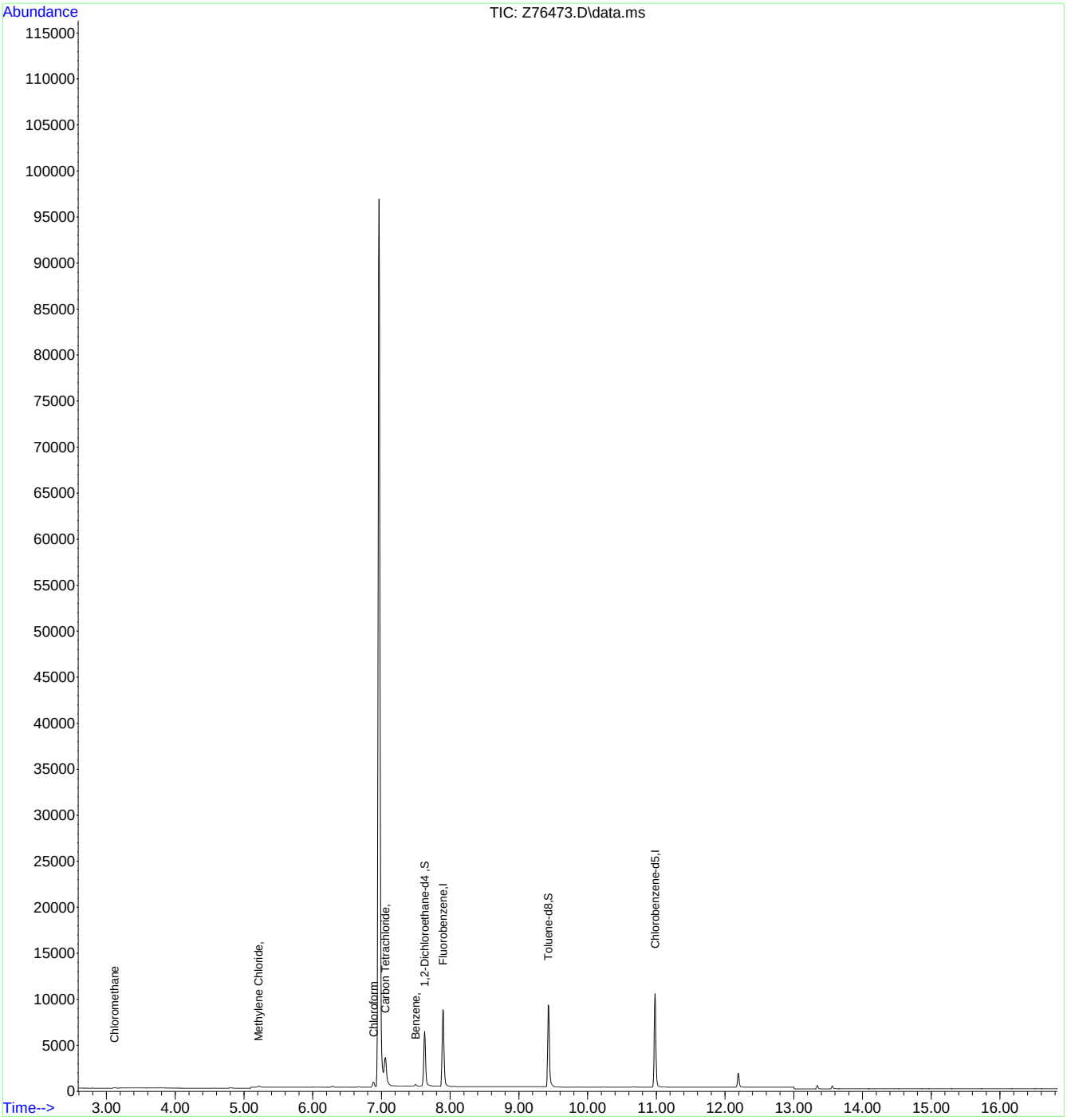
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10847	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11248	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5831	5.63	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 112.60%			
19) Toluene-d8	9.428	98	10081	4.84	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 96.80%			
Target Compounds						Qvalue
3) Chloromethane	3.116	50	165	0.17	ug/L	78
5) Methylene Chloride	5.213	49	130	0.08	ug/L	90
9) Chloroform	6.883	83	589m	0.25	ug/L	
10) Carbon Tetrachloride	7.058	117	2569	1.25	ug/L	95
12) Benzene	7.499	78	313	0.12	ug/L	96

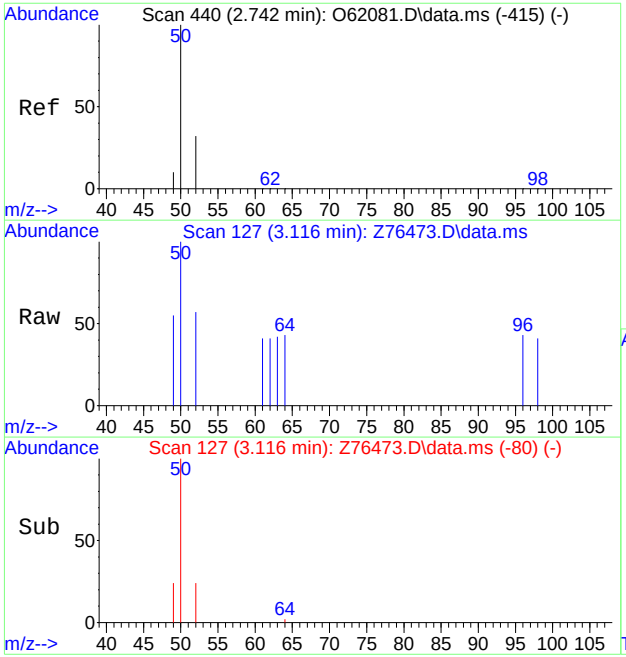
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76473.D
Acq On : 19 Aug 2024 3:18 pm
Operator : claudias
Sample : FC17980-7 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 07:40:59 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

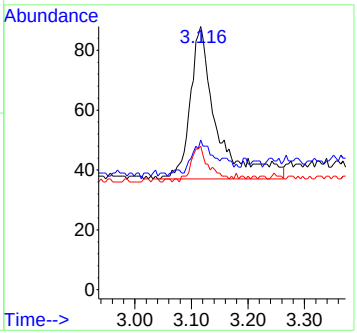


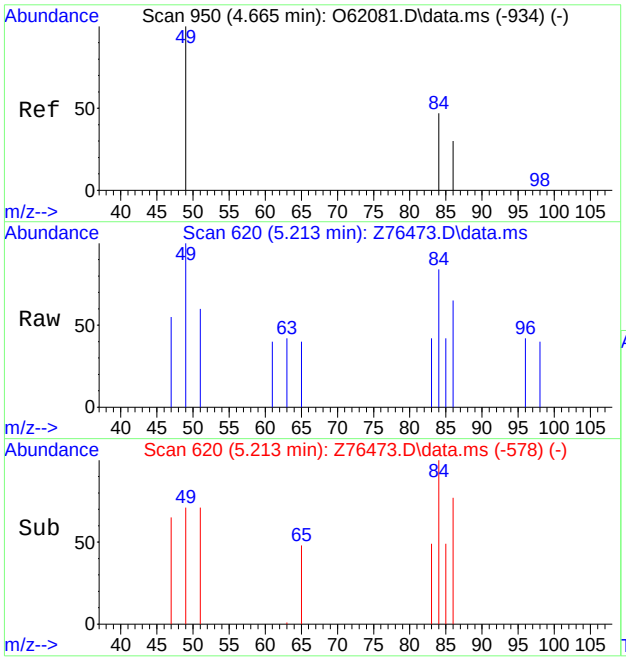


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.116 min Scan# 127
Delta R.T. -0.004 min
Lab File: Z76473.D
Acq: 19 Aug 2024 3:18 pm

Tgt Ion: 50 Resp: 165

Ion	Ratio	Lower	Upper
50	100		
52	21.6	2.1	62.1
49	23.5	0.0	41.2

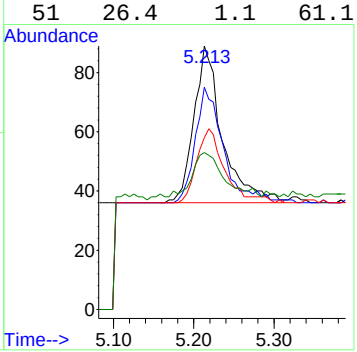


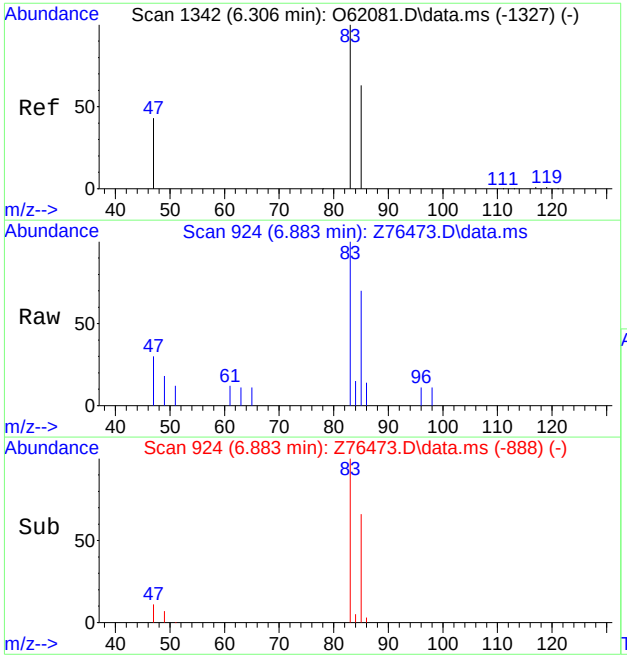


#5
Methylene Chloride
Concen: 0.08 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.000 min
Lab File: Z76473.D
Acq: 19 Aug 2024 3:18 pm

Tgt Ion: 49 Resp: 130

Ion	Ratio	Lower	Upper
49	100		
84	73.6	49.7	109.7
86	41.5	22.0	82.0
51	26.4	1.1	61.1

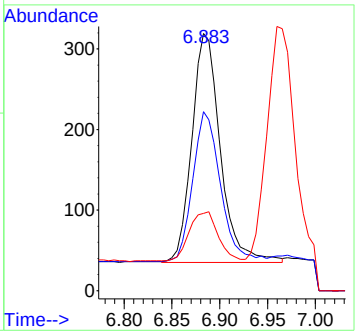


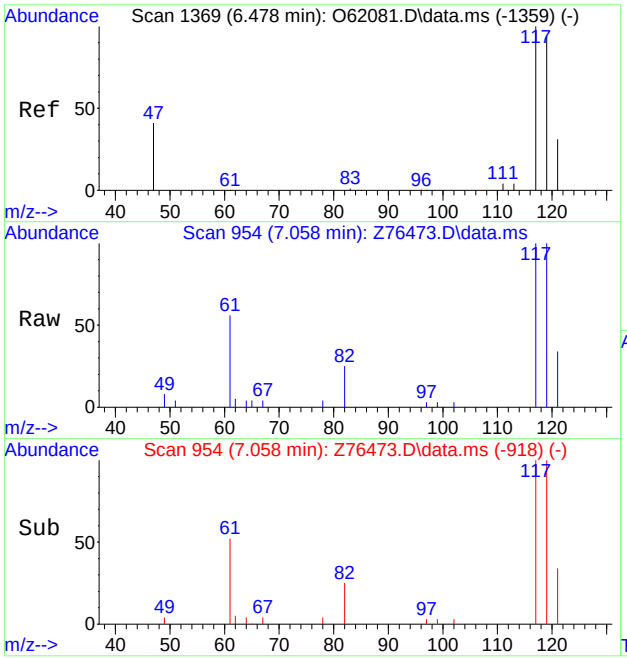


#9
Chloroform
Concen: 0.25 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76473.D
Acq: 19 Aug 2024 3:18 pm

Tgt Ion: 83 Resp: 589

Ion	Ratio	Lower	Upper
83	100		
85	69.6	35.9	95.9
47	30.1	0.0	51.0

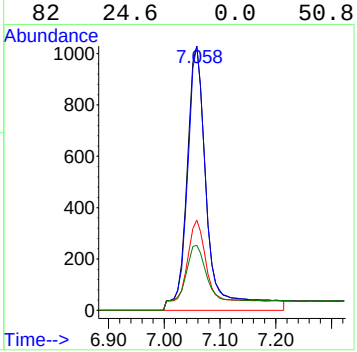


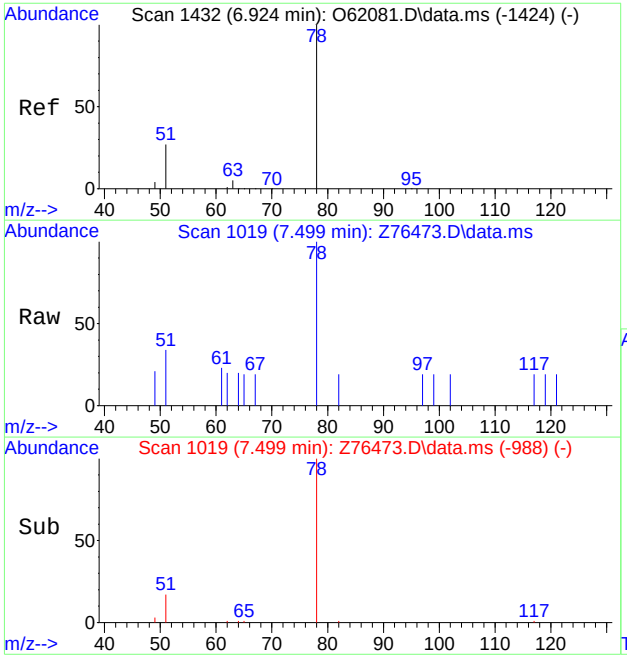


#10
Carbon Tetrachloride
Concen: 1.25 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76473.D
Acq: 19 Aug 2024 3:18 pm

Tgt Ion:117 Resp: 2569

Ion	Ratio	Lower	Upper
117	100		
119	100.1	66.2	126.2
121	34.2	1.2	61.2
82	24.6	0.0	50.8

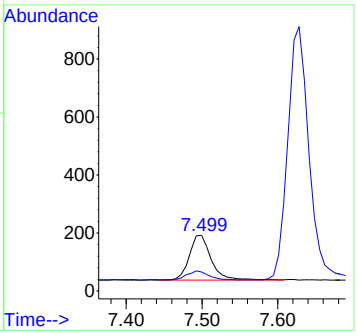




#12
Benzene
Concen: 0.12 ug/L
RT: 7.499 min Scan# 1019
Delta R.T. 0.007 min
Lab File: Z76473.D
Acq: 19 Aug 2024 3:18 pm

Tgt Ion: 78 Resp: 313

Ion	Ratio	Lower	Upper
78	100		
51	17.4	0.0	49.4



Manual Integration Approval Summary

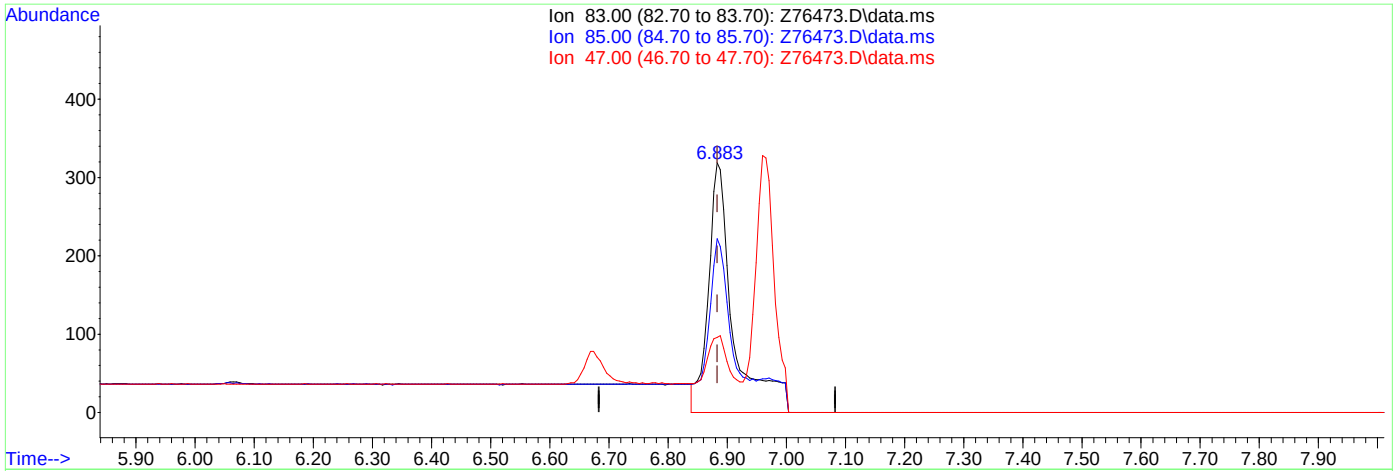
Sample Number: FC17980-7
Lab FileID: Z76473.D
Injection Time: 08/19/24 15:18
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

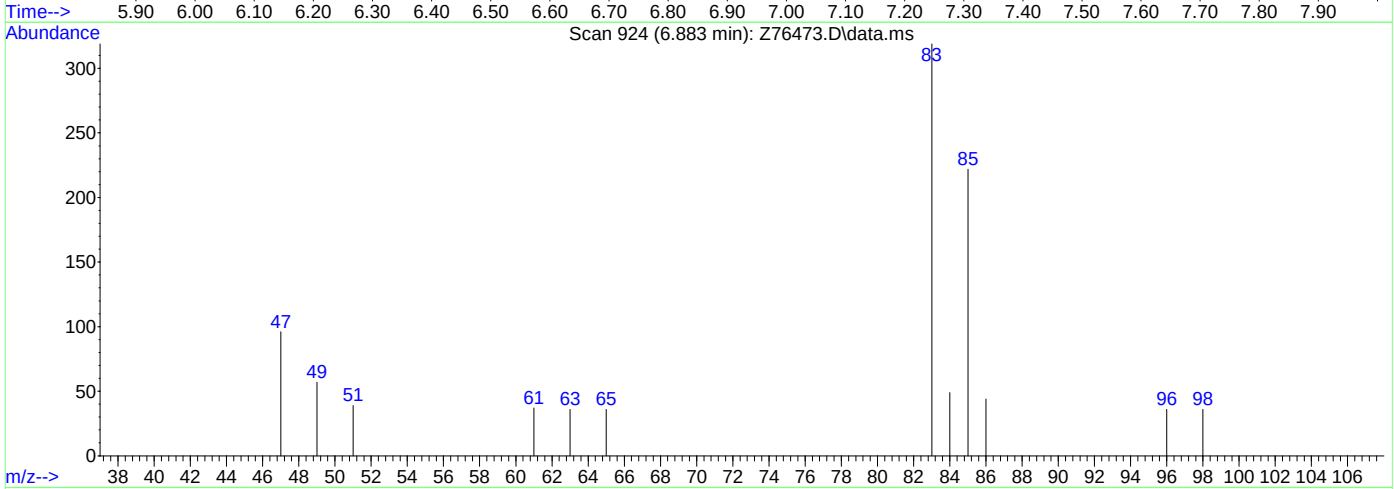
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76473.D
Acq On : 19 Aug 2024 3:18 pm
Operator : claudias
Sample : FC17980-7 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 06:47:18 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76473.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.40ug/L

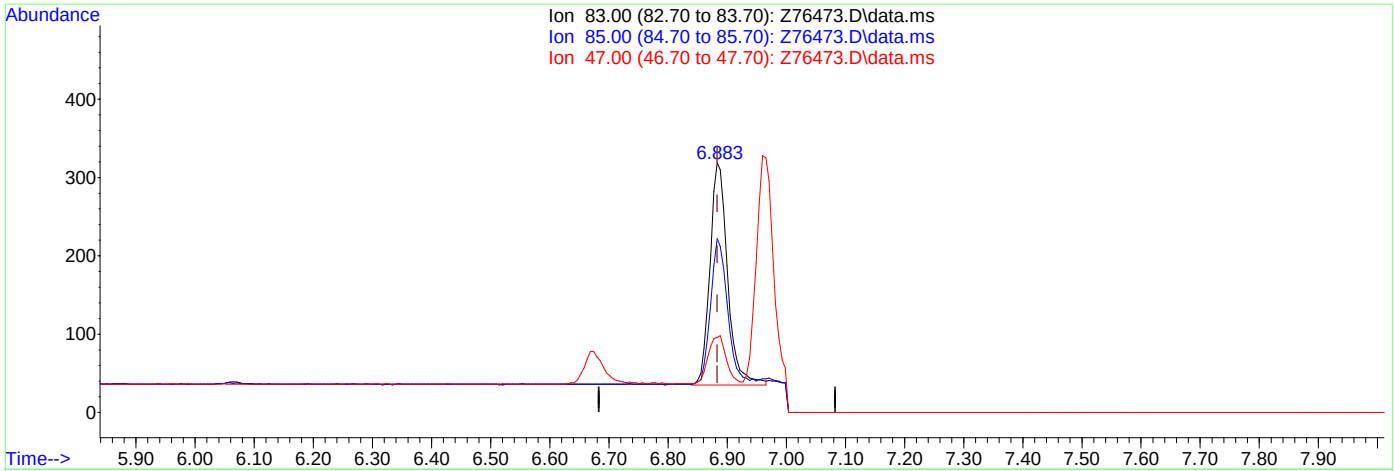
response 939

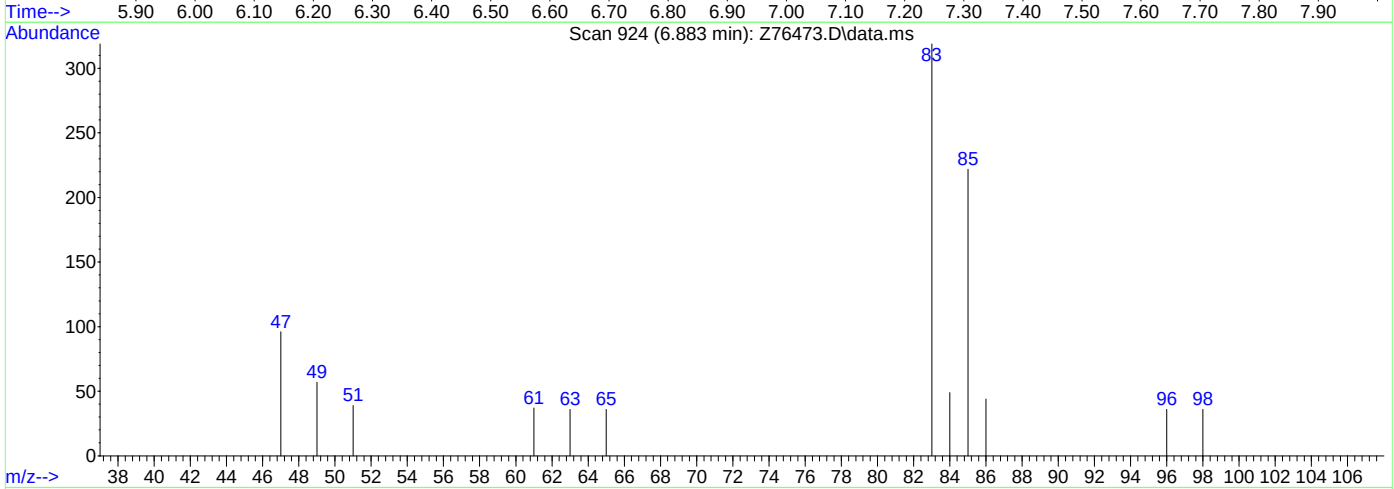
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.59
47.00	21.00	30.09
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76473.D
Acq On : 19 Aug 2024 3:18 pm
Operator : claudias
Sample : FC17980-7 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Aug 20 06:47:18 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76473.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.25ug/L m

response 589

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.59
47.00	21.00	30.09
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76474.D
Acq On : 19 Aug 2024 3:41 pm
Operator : claudias
Sample : FC17980-8 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 07:42:04 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10660	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11187	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5889	5.79	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 115.80%			
19) Toluene-d8	9.428	98	9960	4.81	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 96.20%			
Target Compounds						Qvalue
3) Chloromethane	3.108	50	160	0.17	ug/L	74
5) Methylene Chloride	5.213	49	130	0.08	ug/L	87
9) Chloroform	6.883	83	578m	0.25	ug/L	
10) Carbon Tetrachloride	7.058	117	2576	1.28	ug/L	97
12) Benzene	7.499	78	318	0.13	ug/L	95

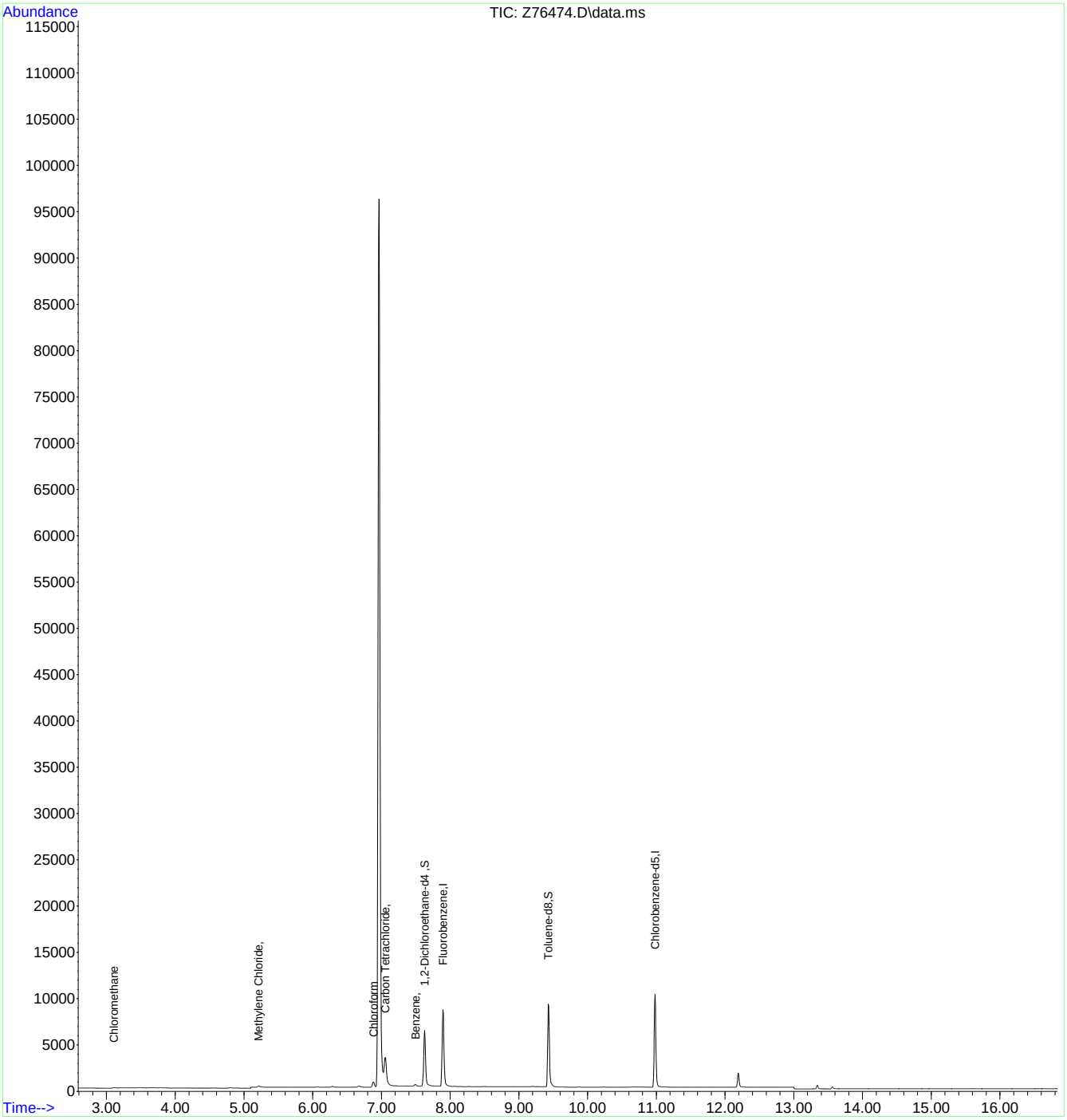
(#) = qualifier out of range (m) = manual integration (+) = signals summed

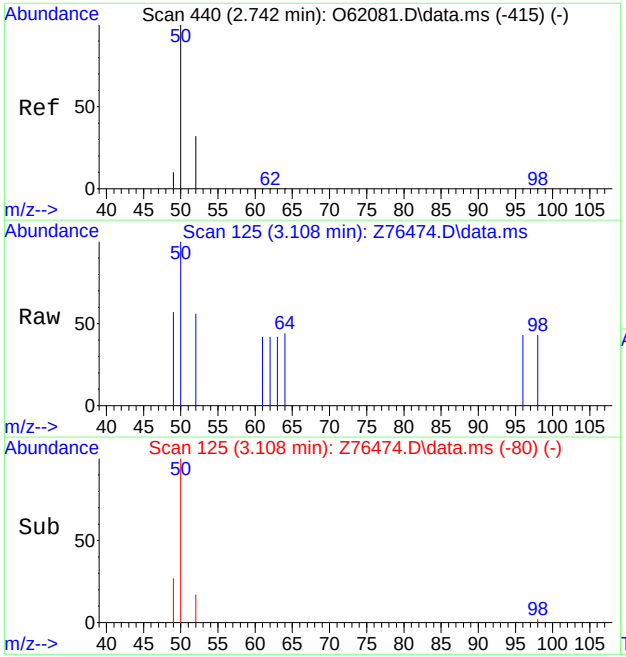
7.1.8
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76474.D
Acq On : 19 Aug 2024 3:41 pm
Operator : claudias
Sample : FC17980-8 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 07:42:04 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

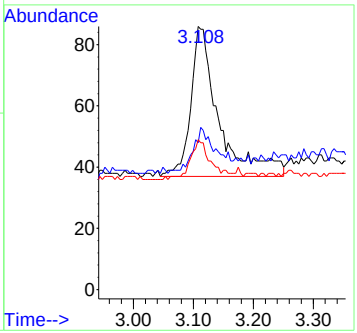


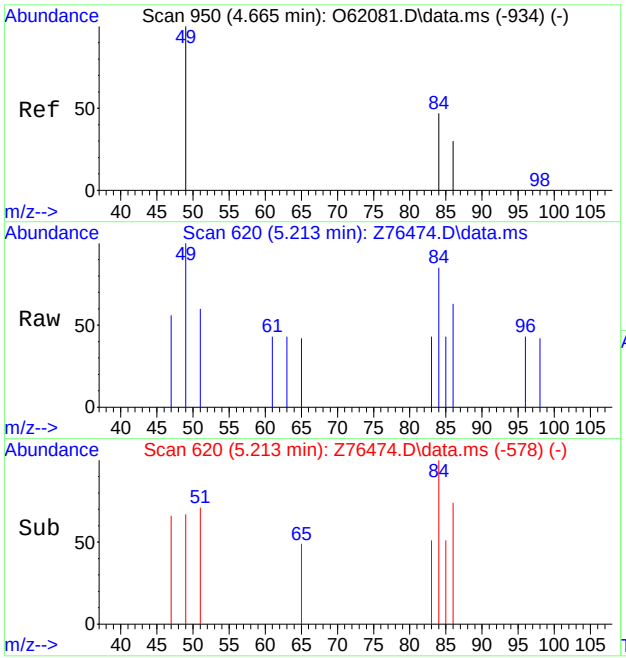


#3
Chloromethane
Concen: 0.17 ug/L
RT: 3.108 min Scan# 125
Delta R.T. -0.012 min
Lab File: Z76474.D
Acq: 19 Aug 2024 3:41 pm

Tgt Ion: 50 Resp: 160

Ion	Ratio	Lower	Upper
50	100		
52	20.4	2.1	62.1
49	26.5	0.0	41.2

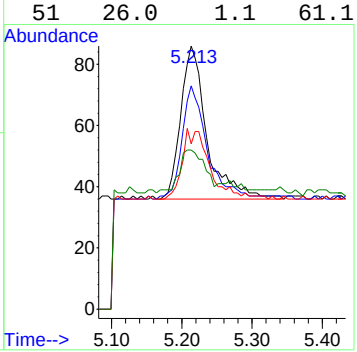


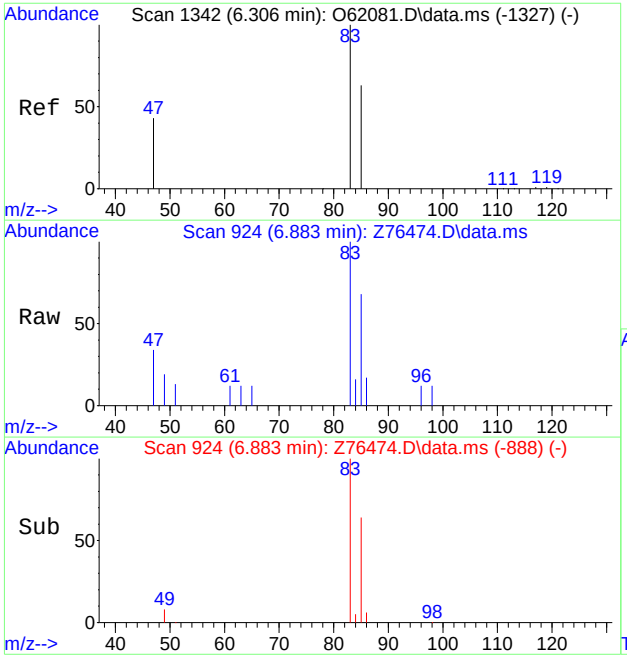


#5
Methylene Chloride
Concen: 0.08 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.000 min
Lab File: Z76474.D
Acq: 19 Aug 2024 3:41 pm

Tgt Ion: 49 Resp: 130

Ion	Ratio	Lower	Upper
49	100		
84	72.0	49.7	109.7
86	36.0	22.0	82.0
51	26.0	1.1	61.1

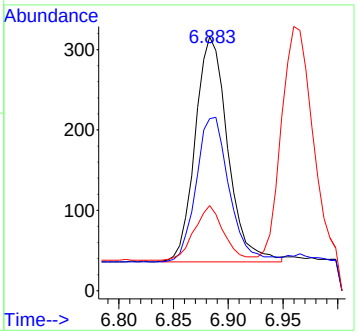


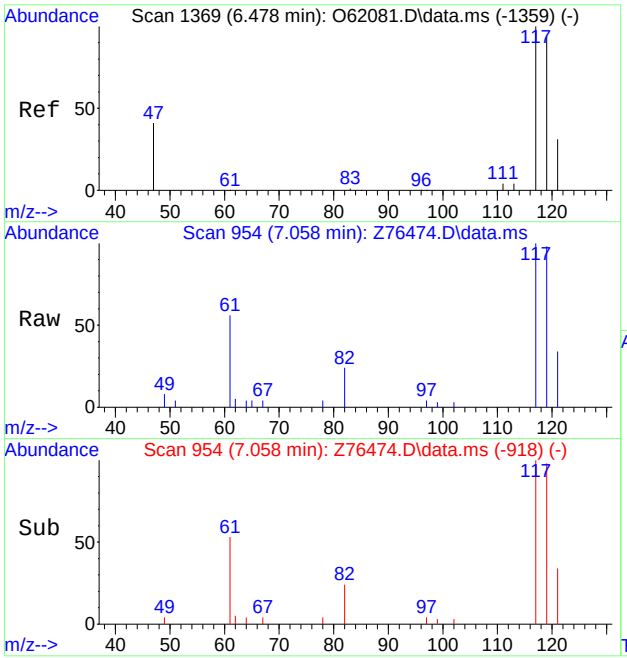


#9
Chloroform
Concen: 0.25 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. 0.000 min
Lab File: Z76474.D
Acq: 19 Aug 2024 3:41 pm

Tgt Ion: 83 Resp: 578

Ion	Ratio	Lower	Upper
83	100		
85	67.7	35.9	95.9
47	33.5	0.0	51.0

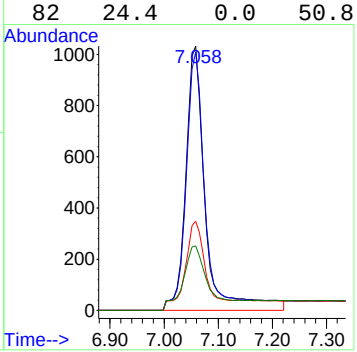


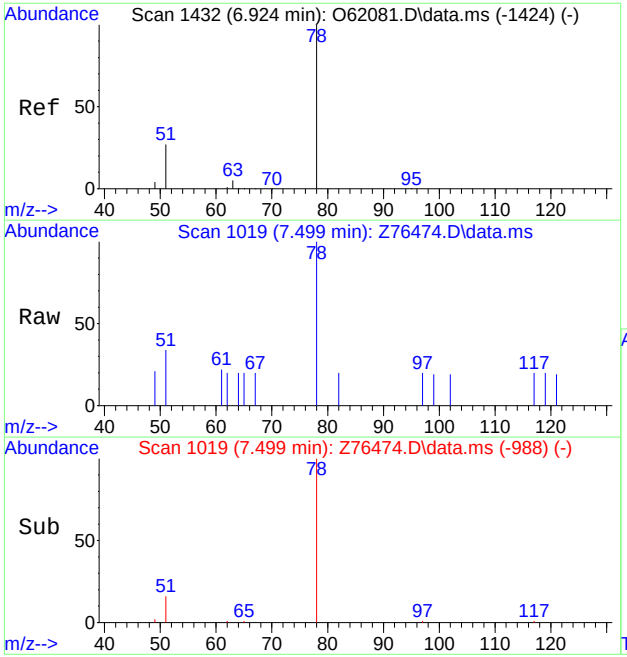


#10
Carbon Tetrachloride
Concen: 1.28 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76474.D
Acq: 19 Aug 2024 3:41 pm

Tgt Ion:117 Resp: 2576

Ion	Ratio	Lower	Upper
117	100		
119	97.6	66.2	126.2
121	33.7	1.2	61.2
82	24.4	0.0	50.8

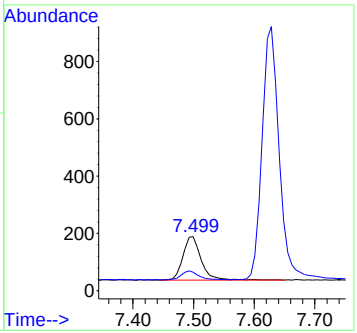




#12
Benzene
Concen: 0.13 ug/L
RT: 7.499 min Scan# 1019
Delta R.T. 0.007 min
Lab File: Z76474.D
Acq: 19 Aug 2024 3:41 pm

Tgt Ion: 78 Resp: 318

Ion	Ratio	Lower	Upper
78	100		
51	17.1	0.0	49.4



Manual Integration Approval Summary

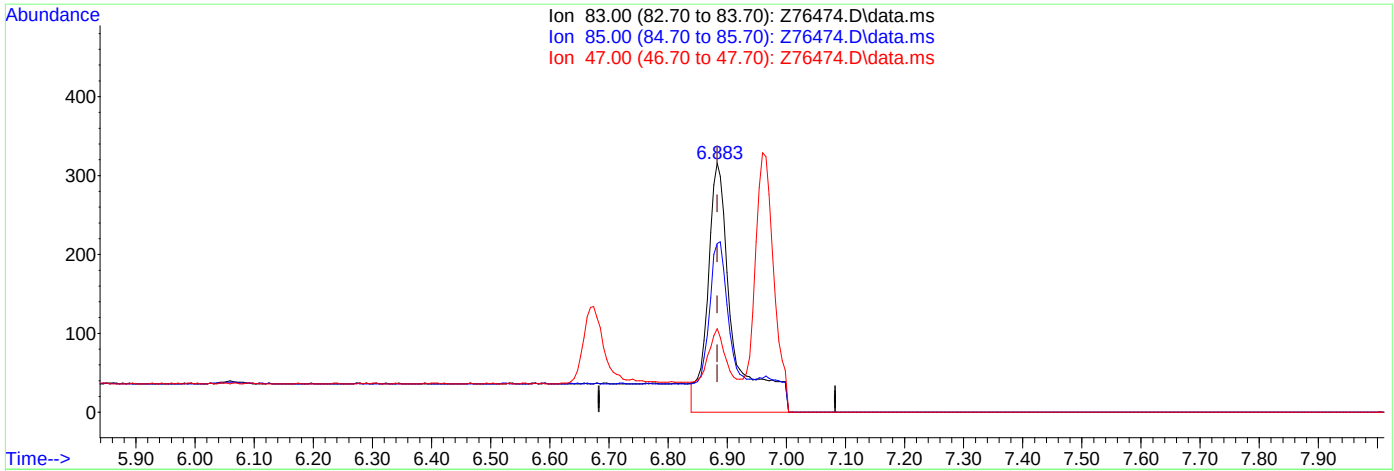
Sample Number: FC17980-8
Lab FileID: Z76474.D
Injection Time: 08/19/24 15:41
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

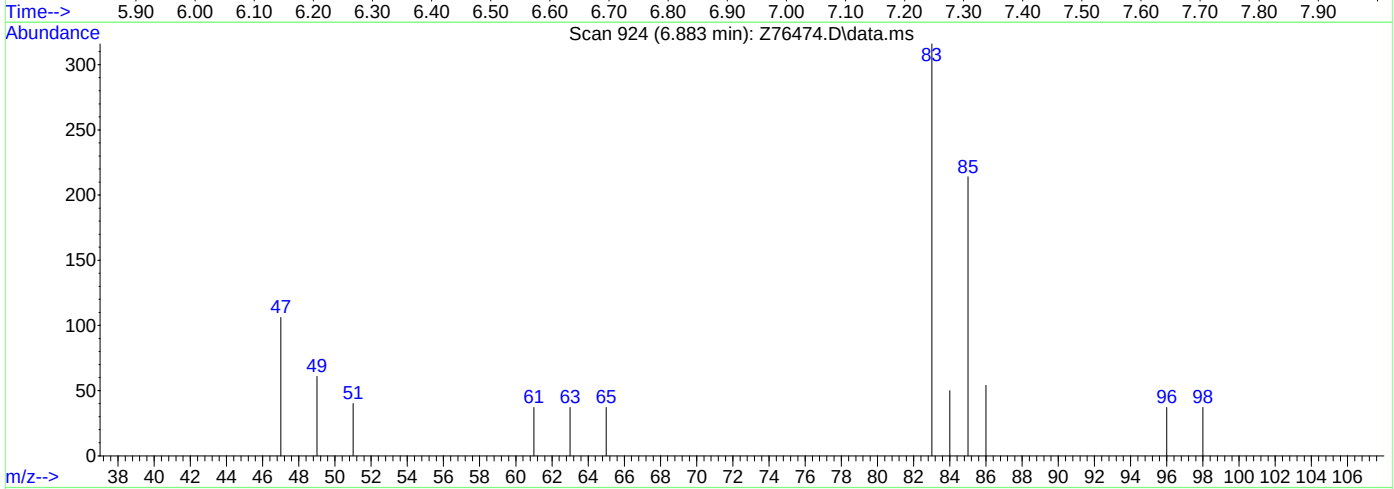
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76474.D
Acq On : 19 Aug 2024 3:41 pm
Operator : claudias
Sample : FC17980-8 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 06:47:20 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76474.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.41ug/L

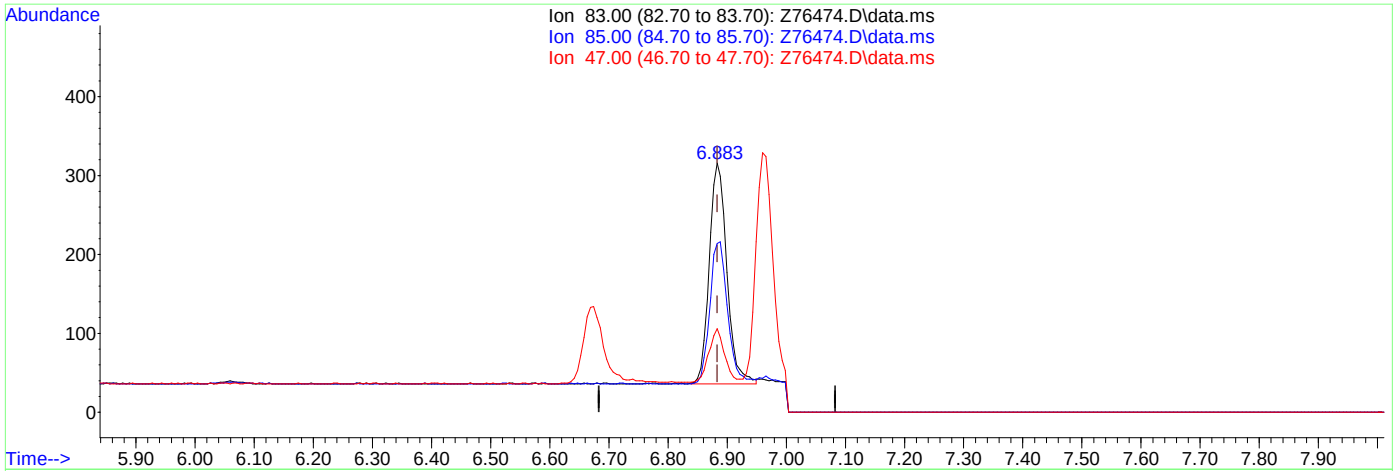
response 942

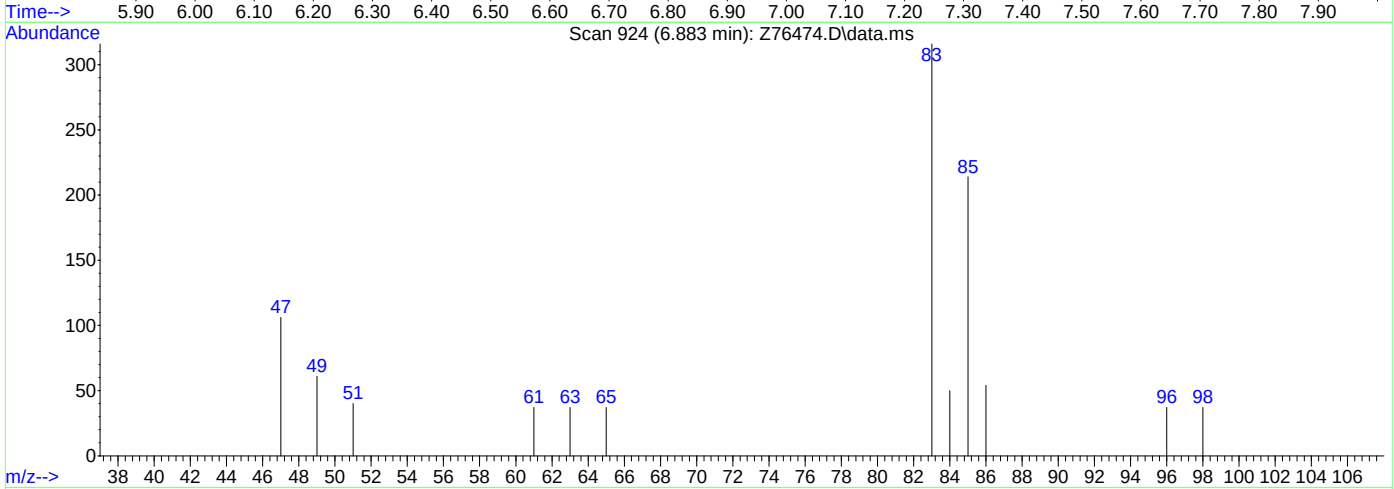
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	67.72
47.00	21.00	33.54
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76474.D
Acq On : 19 Aug 2024 3:41 pm
Operator : claudias
Sample : FC17980-8 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Aug 20 06:47:20 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76474.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.25ug/L m

response 578

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	67.72
47.00	21.00	33.54
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76475.D
Acq On : 19 Aug 2024 4:04 pm
Operator : claudias
Sample : FC17980-9 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 07:43:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

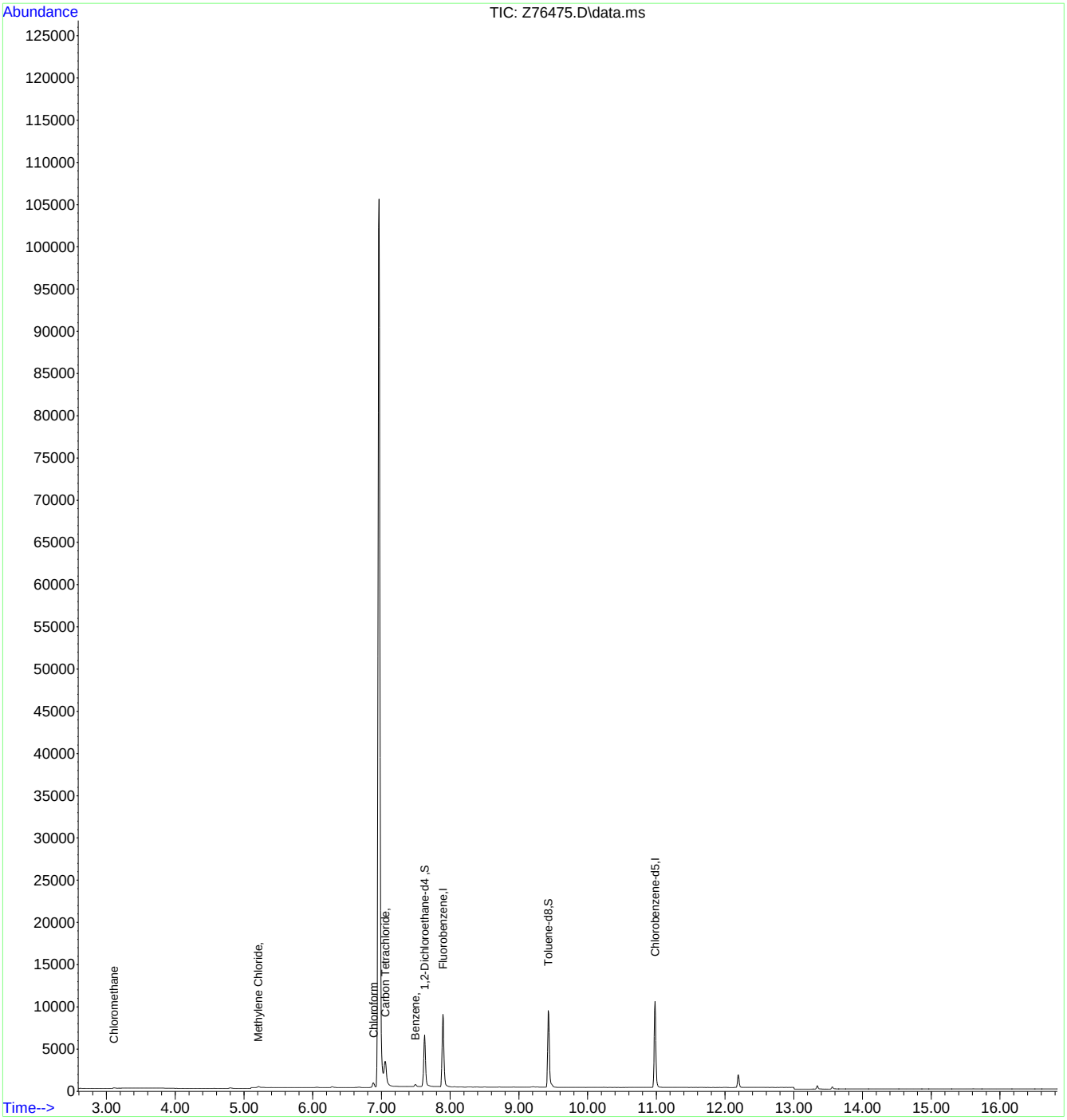
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10984	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.981	117	11205	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5915	5.64	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 112.80%			
19) Toluene-d8	9.428	98	10057	4.85	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.00%			
Target Compounds						Qvalue
3) Chloromethane	3.108	50	176	0.18	ug/L	82
5) Methylene Chloride	5.208	49	118	0.07	ug/L	94
9) Chloroform	6.883	83	570m	0.24	ug/L	
10) Carbon Tetrachloride	7.058	117	2479	1.19	ug/L	96
12) Benzene	7.493	78	399	0.15	ug/L	100

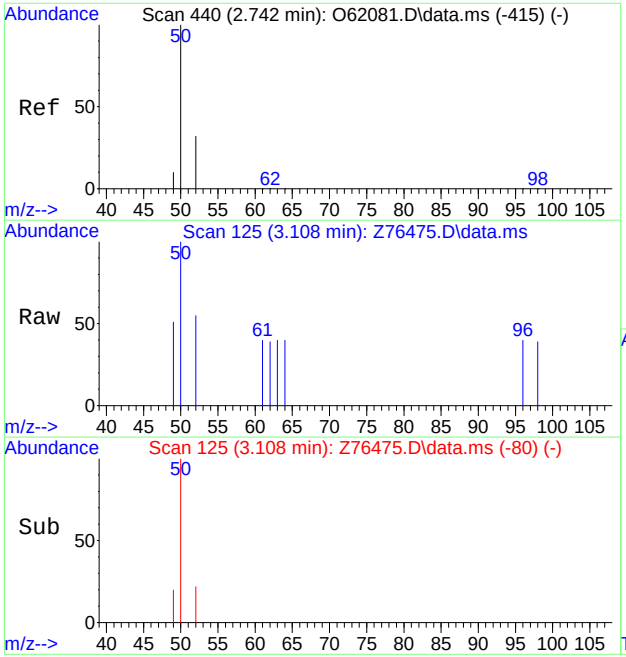
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76475.D
Acq On : 19 Aug 2024 4:04 pm
Operator : claudias
Sample : FC17980-9 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 07:43:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

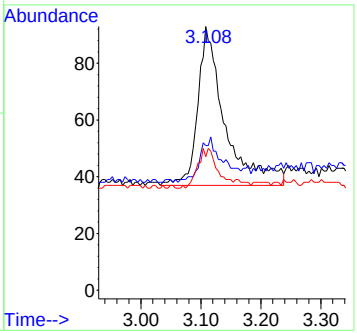


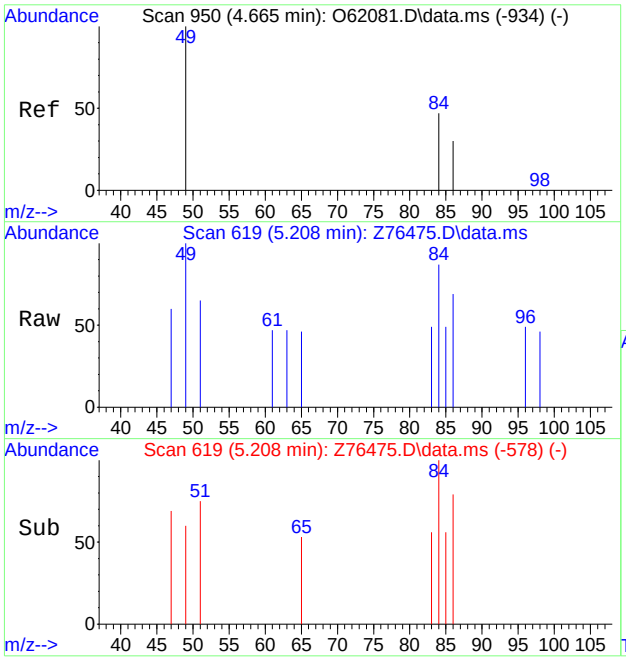


#3
Chloromethane
Concen: 0.18 ug/L
RT: 3.108 min Scan# 125
Delta R.T. -0.012 min
Lab File: Z76475.D
Acq: 19 Aug 2024 4:04 pm

Tgt Ion: 50 Resp: 176

Ion	Ratio	Lower	Upper
50	100		
52	23.2	2.1	62.1
49	19.6	0.0	41.2

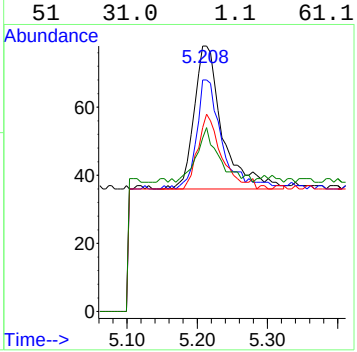


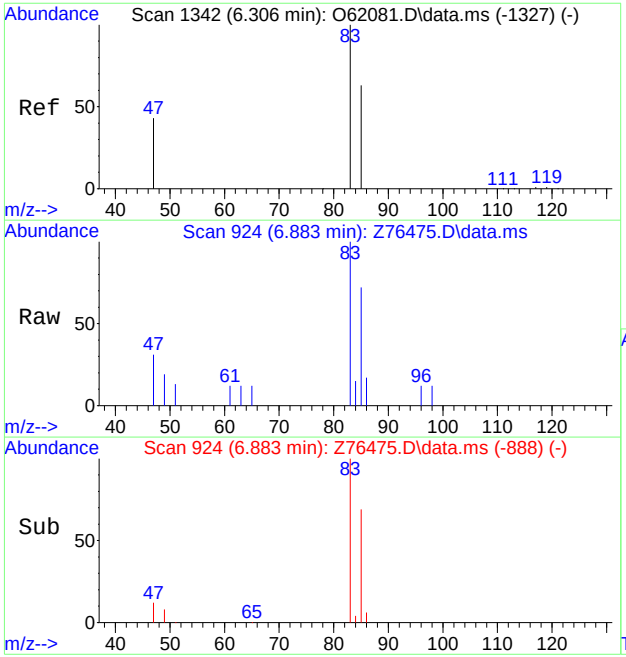


#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.208 min Scan# 619
Delta R.T. -0.005 min
Lab File: Z76475.D
Acq: 19 Aug 2024 4:04 pm

Tgt Ion: 49 Resp: 118

Ion	Ratio	Lower	Upper
49	100		
84	76.2	49.7	109.7
86	42.9	22.0	82.0
51	31.0	1.1	61.1

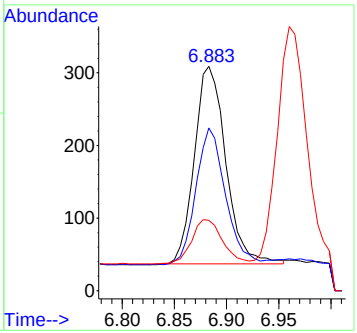


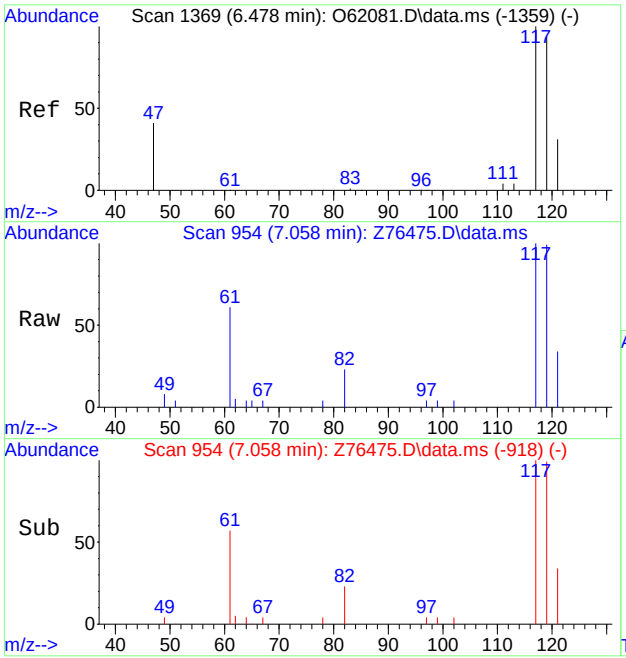


#9
Chloroform
Concen: 0.24 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. 0.000 min
Lab File: Z76475.D
Acq: 19 Aug 2024 4:04 pm

Tgt Ion: 83 Resp: 570

Ion	Ratio	Lower	Upper
83	100		
85	72.5	35.9	95.9
47	31.4	0.0	51.0

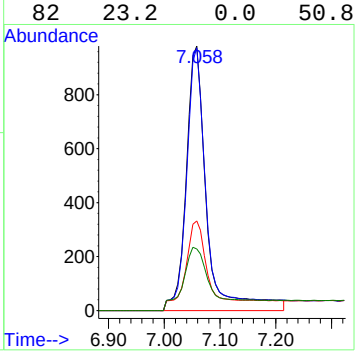


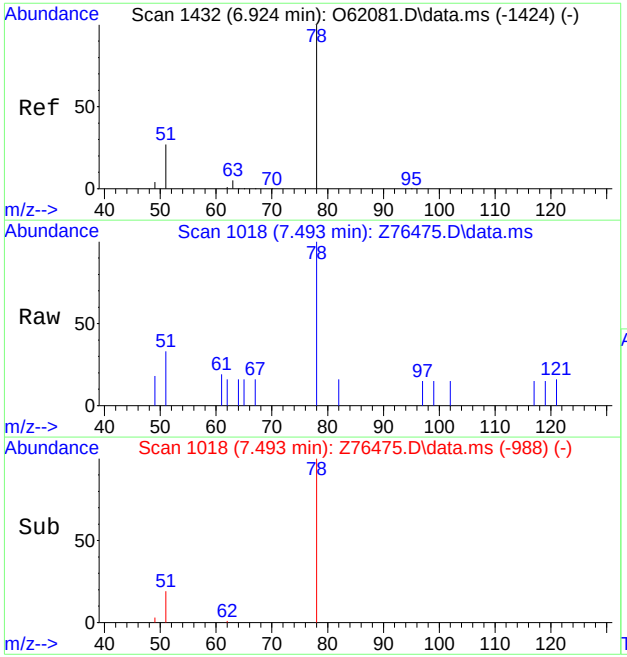


#10
Carbon Tetrachloride
Concen: 1.19 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76475.D
Acq: 19 Aug 2024 4:04 pm

Tgt Ion:117 Resp: 2479

Ion	Ratio	Lower	Upper
117	100		
119	99.3	66.2	126.2
121	33.8	1.2	61.2
82	23.2	0.0	50.8

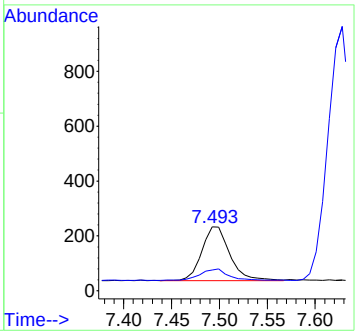




#12
Benzene
Concen: 0.15 ug/L
RT: 7.493 min Scan# 1018
Delta R.T. 0.001 min
Lab File: Z76475.D
Acq: 19 Aug 2024 4:04 pm

Tgt Ion: 78 Resp: 399

Ion	Ratio	Lower	Upper
78	100		
51	19.4	0.0	49.4



7.1.9

7

Manual Integration Approval Summary

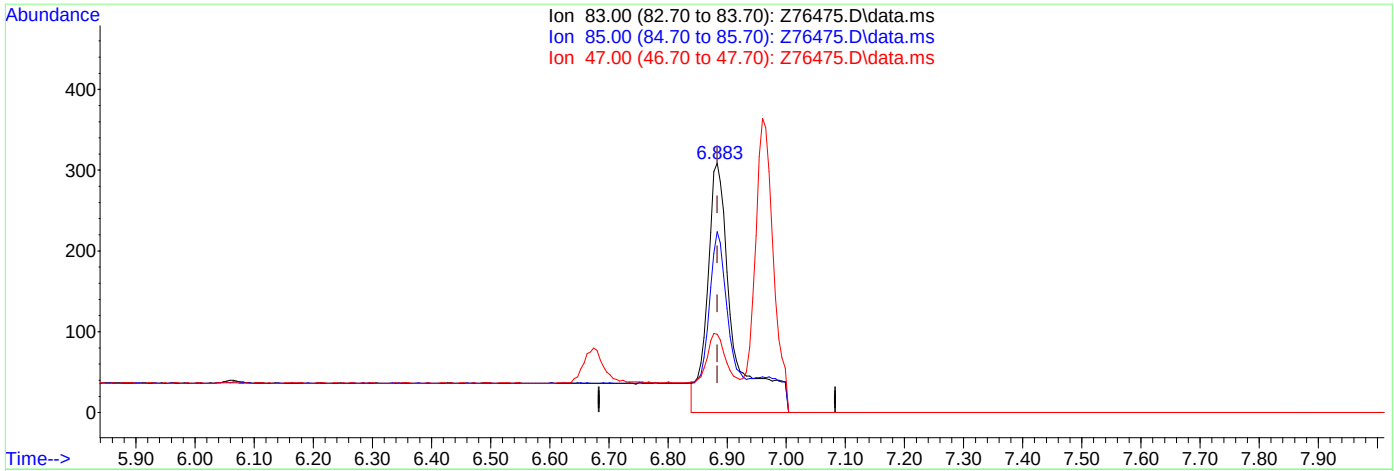
Sample Number: FC17980-9
Lab FileID: Z76475.D
Injection Time: 08/19/24 16:04
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

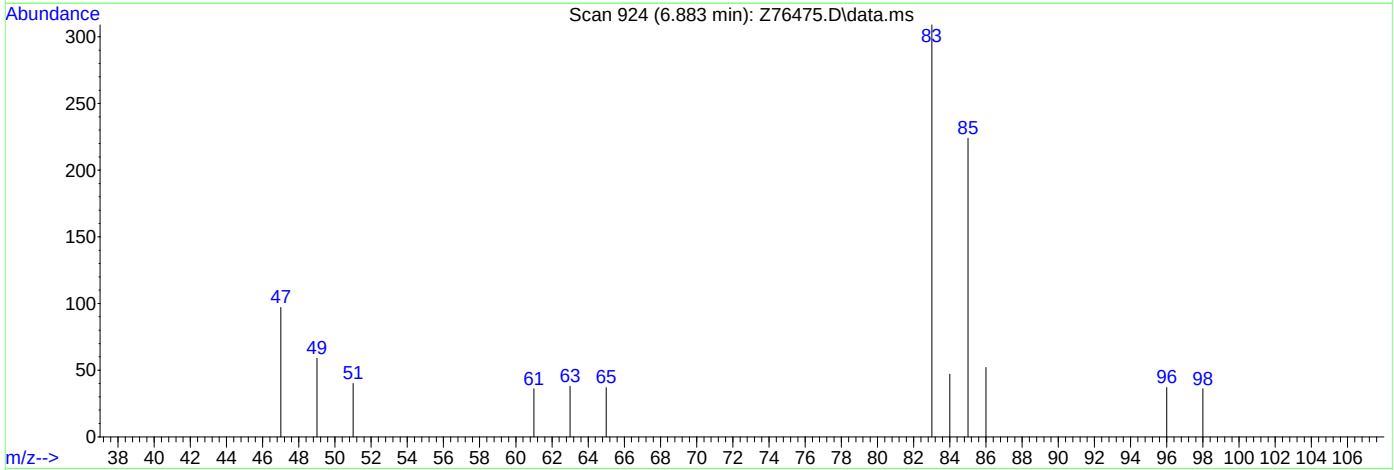
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76475.D
Acq On : 19 Aug 2024 4:04 pm
Operator : claudias
Sample : FC17980-9 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 06:47:22 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76475.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.40ug/L

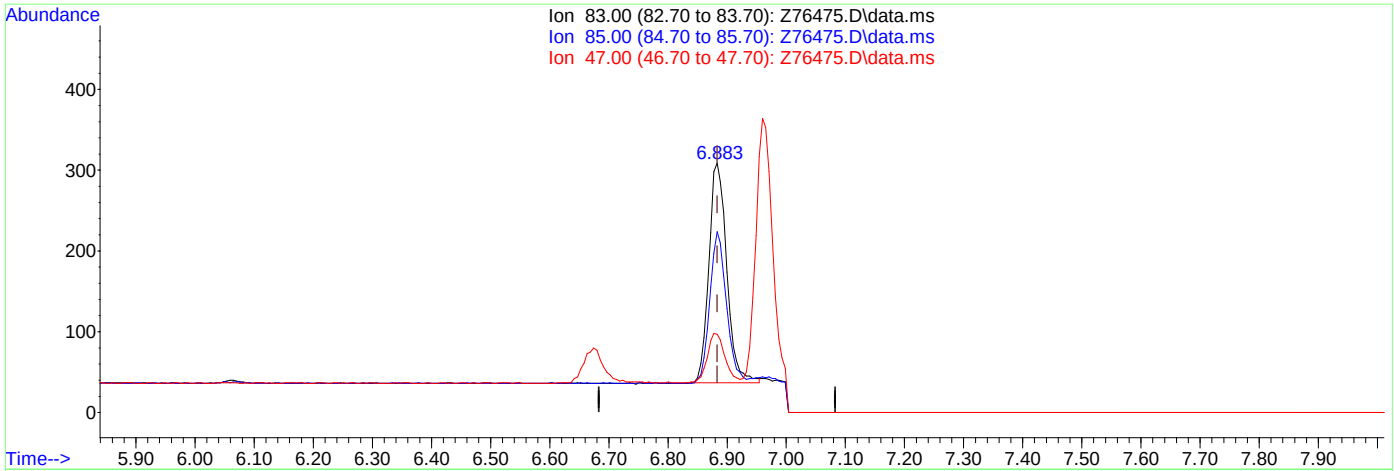
response 939

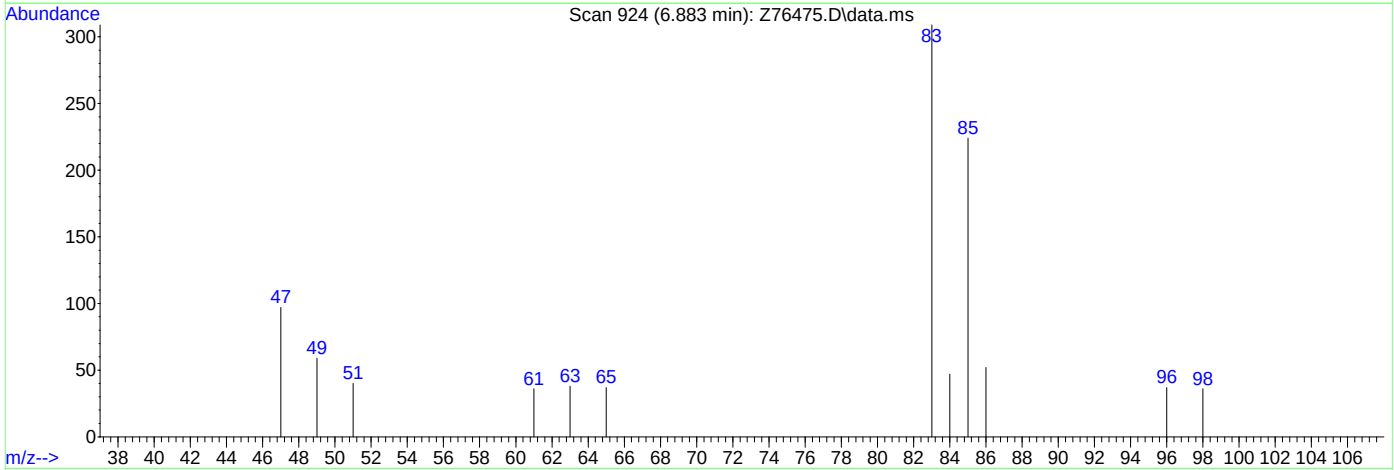
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	72.49
47.00	21.00	31.39
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76475.D
Acq On : 19 Aug 2024 4:04 pm
Operator : claudias
Sample : FC17980-9 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Aug 20 06:47:22 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76475.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.24ug/L m

response 570

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	72.49
47.00	21.00	31.39
0.00	0.00	0.00

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/20/24 10:29

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76476.D
Acq On : 19 Aug 2024 4:27 pm
Operator : claudias
Sample : FC17980-10 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 20 07:44:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10964	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	11211	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5827	5.57	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 111.40%			
19) Toluene-d8	9.428	98	10080	4.86	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.20%			
Target Compounds						Qvalue
3) Chloromethane	3.112	50	146	0.15	ug/L	76
5) Methylene Chloride	5.208	49	126	0.08	ug/L	86
9) Chloroform	6.883	83	577m	0.24	ug/L	
10) Carbon Tetrachloride	7.058	117	2469	1.19	ug/L	96
12) Benzene	7.492	78	503	0.19	ug/L	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

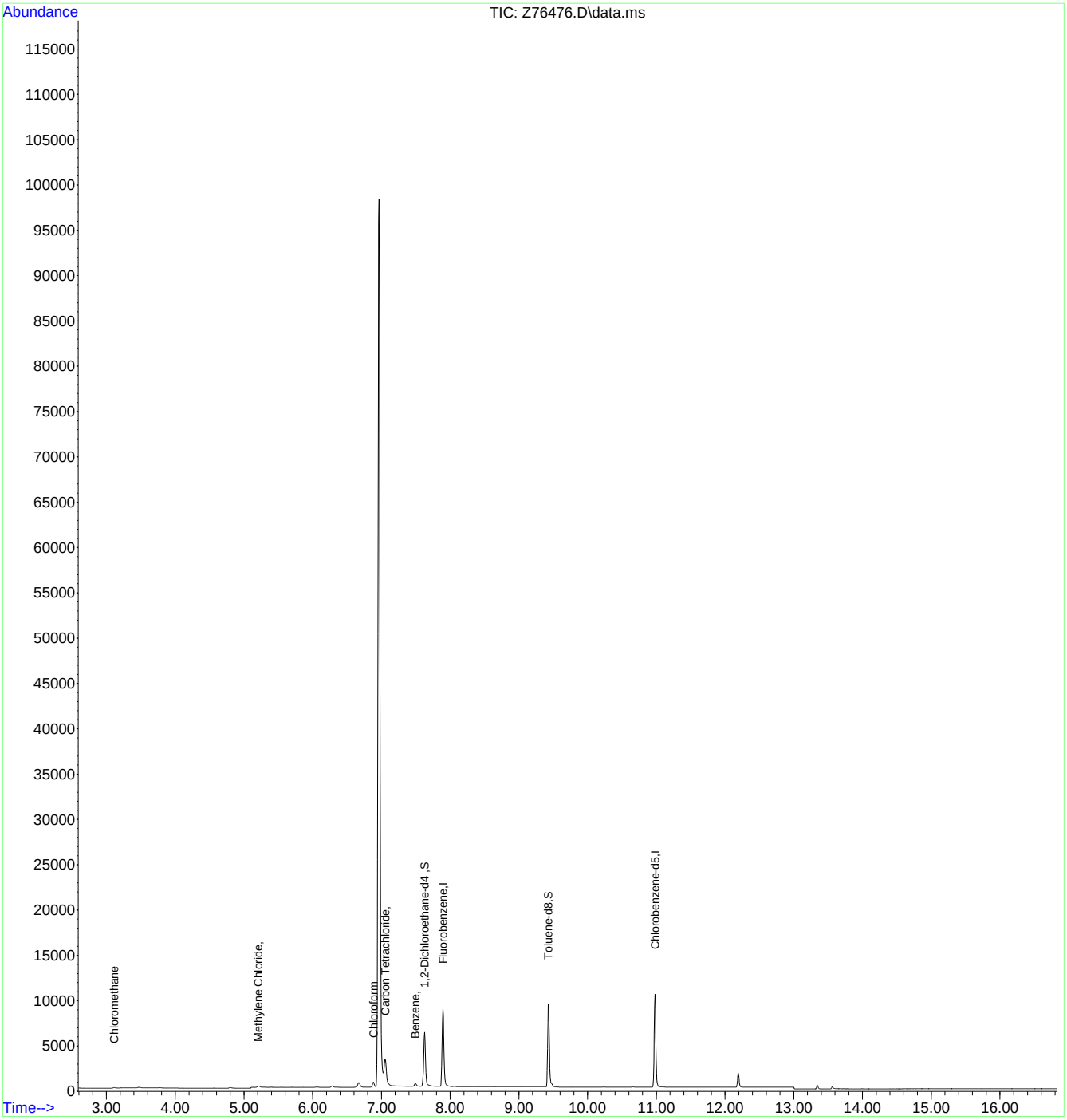
7.1.10

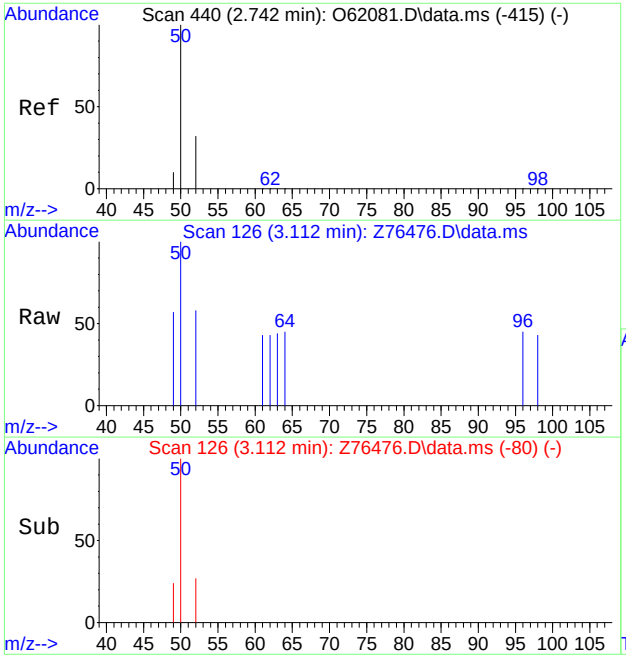
7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76476.D
Acq On : 19 Aug 2024 4:27 pm
Operator : claudias
Sample : FC17980-10 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 20 07:44:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

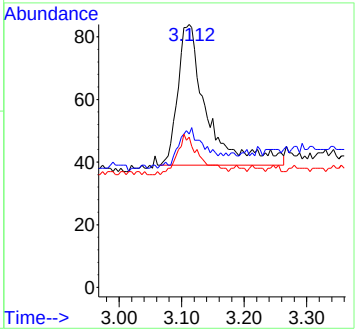


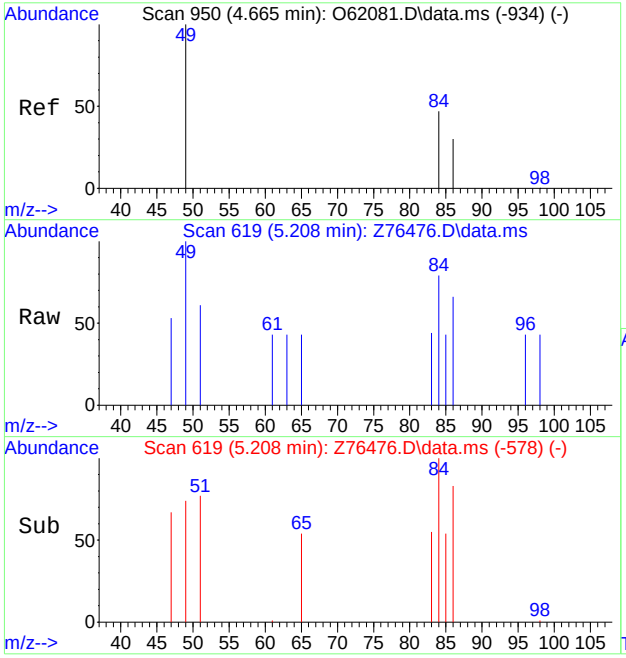


#3
Chloromethane
Concen: 0.15 ug/L
RT: 3.112 min Scan# 126
Delta R.T. -0.008 min
Lab File: Z76476.D
Acq: 19 Aug 2024 4:27 pm

Tgt Ion: 50 Resp: 146

Ion	Ratio	Lower	Upper
50	100		
52	22.2	2.1	62.1
49	26.7	0.0	41.2

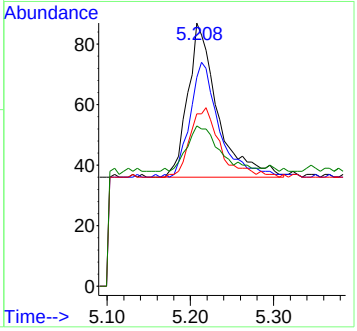


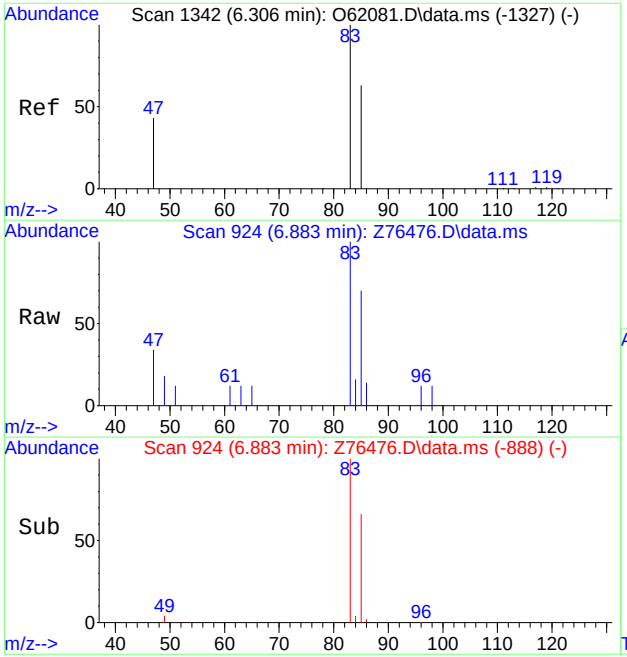


#5
Methylene Chloride
Concen: 0.08 ug/L
RT: 5.208 min Scan# 619
Delta R.T. -0.005 min
Lab File: Z76476.D
Acq: 19 Aug 2024 4:27 pm

Tgt Ion: 49 Resp: 126

Ion	Ratio	Lower	Upper
49	100		
84	64.7	49.7	109.7
86	41.2	22.0	82.0
51	29.4	1.1	61.1

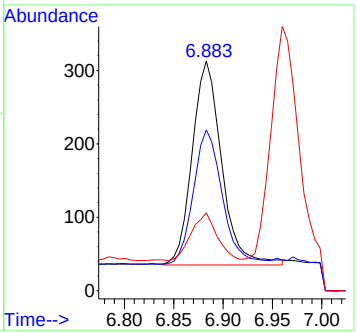


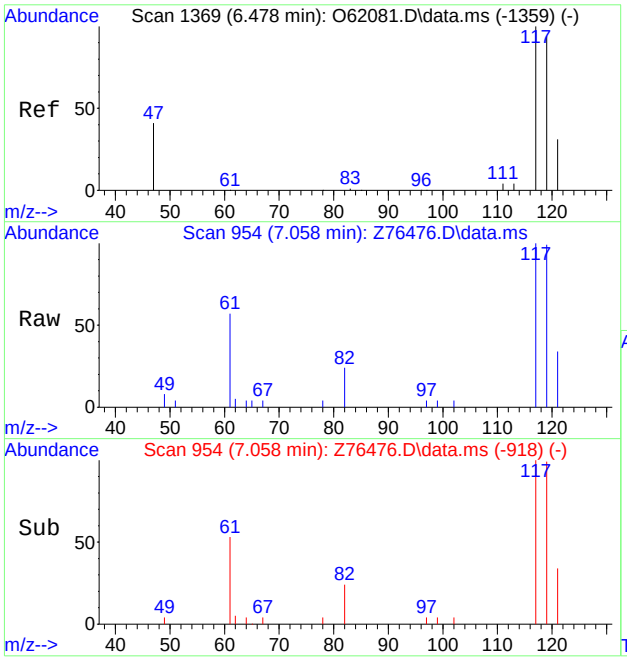


#9
Chloroform
Concen: 0.24 ug/L m
RT: 6.883 min Scan# 924
Delta R.T. -0.000 min
Lab File: Z76476.D
Acq: 19 Aug 2024 4:27 pm

Tgt Ion: 83 Resp: 577

Ion	Ratio	Lower	Upper
83	100		
85	70.0	35.9	95.9
47	33.9	0.0	51.0

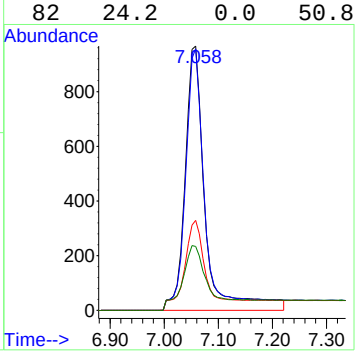


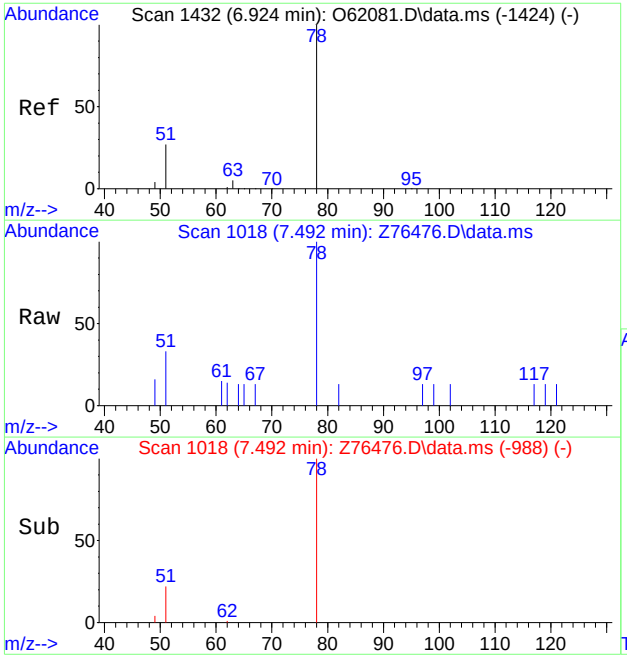


#10
Carbon Tetrachloride
Concen: 1.19 ug/L
RT: 7.058 min Scan# 954
Delta R.T. 0.007 min
Lab File: Z76476.D
Acq: 19 Aug 2024 4:27 pm

Tgt Ion:117 Resp: 2469

Ion	Ratio	Lower	Upper
117	100		
119	98.9	66.2	126.2
121	34.0	1.2	61.2
82	24.2	0.0	50.8

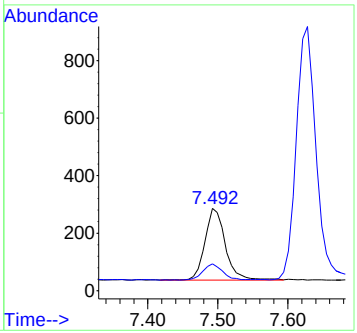




#12
Benzene
Concen: 0.19 ug/L
RT: 7.492 min Scan# 1018
Delta R.T. 0.000 min
Lab File: Z76476.D
Acq: 19 Aug 2024 4:27 pm

Tgt Ion: 78 Resp: 503

Ion	Ratio	Lower	Upper
78	100		
51	22.5	0.0	49.4



Manual Integration Approval Summary

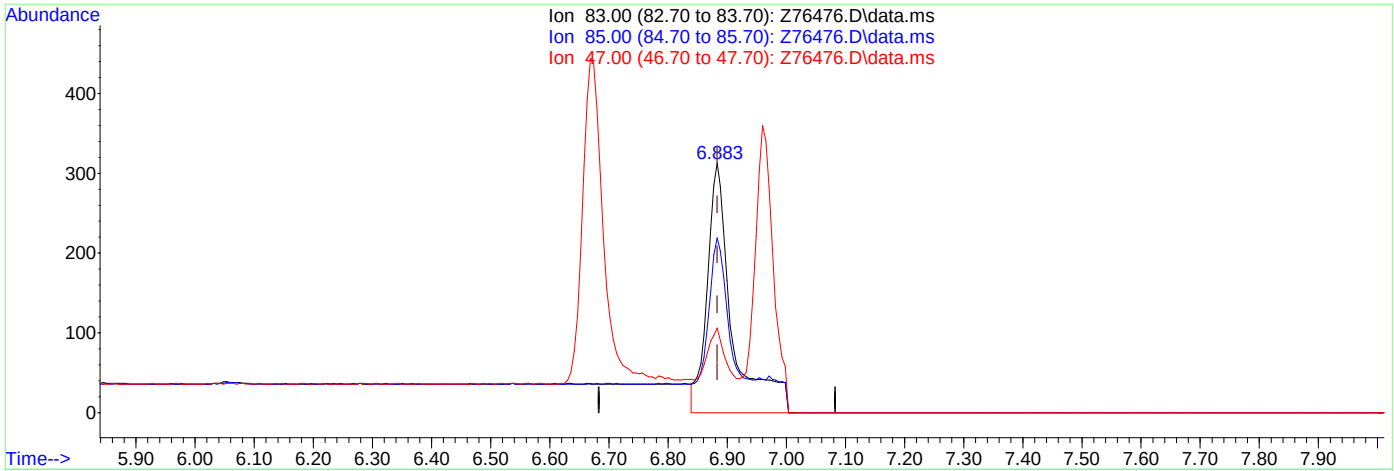
Sample Number: FC17980-10
Lab FileID: Z76476.D
Injection Time: 08/19/24 16:27
Method: SW846 8260D BY SIM
Analyst approved: 08/20/24 08:20 Claudia Sosa
Supervisor approved: 08/20/24 10:29 Karen Watson

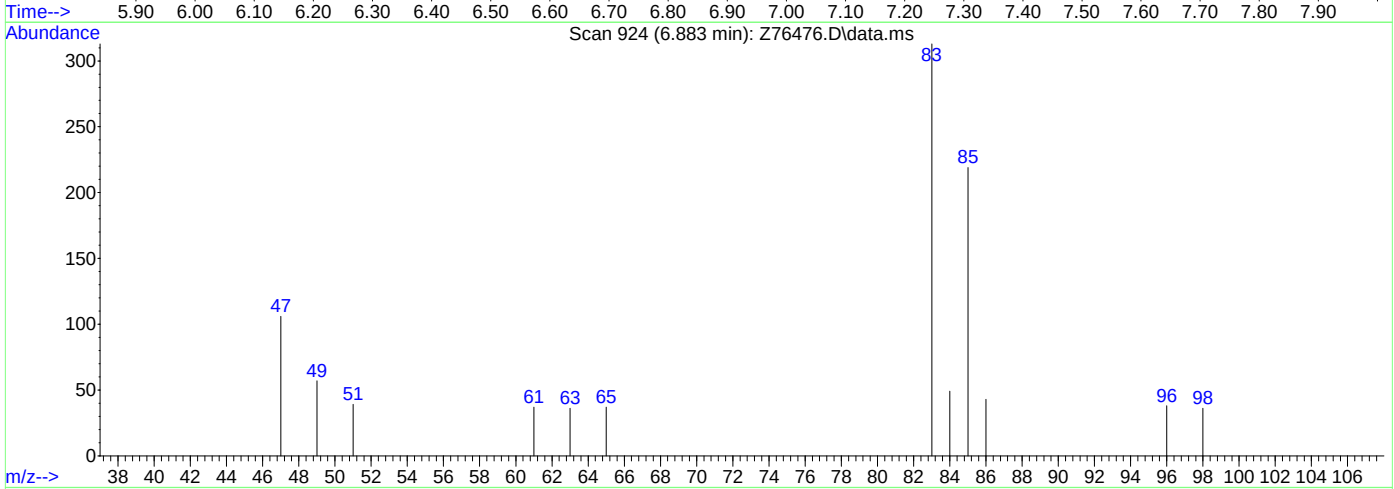
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76476.D
Acq On : 19 Aug 2024 4:27 pm
Operator : claudias
Sample : FC17980-10 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 20 06:47:24 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76476.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.39ug/L

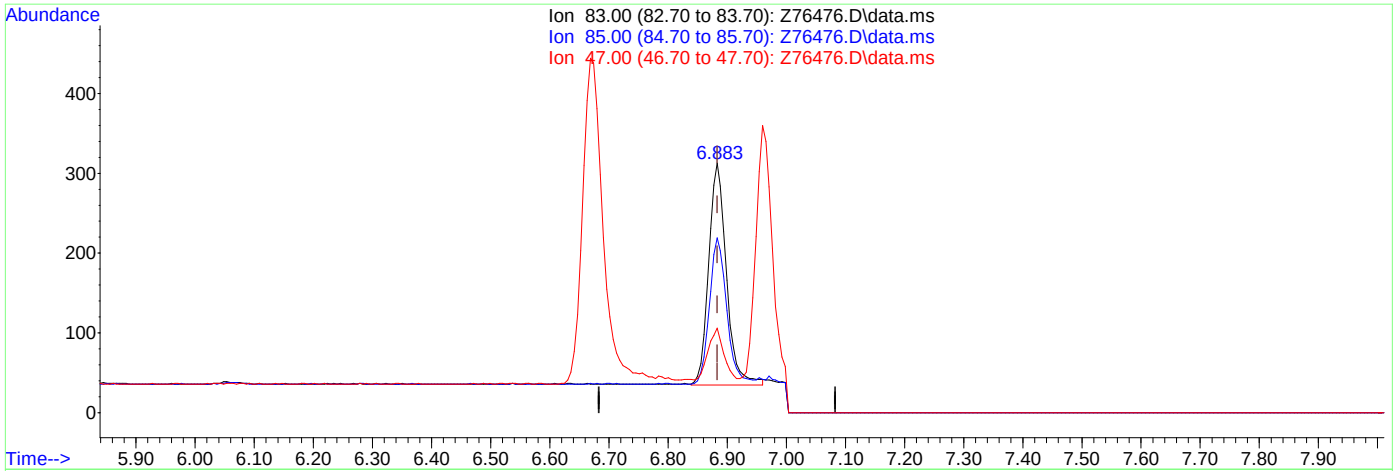
response 929

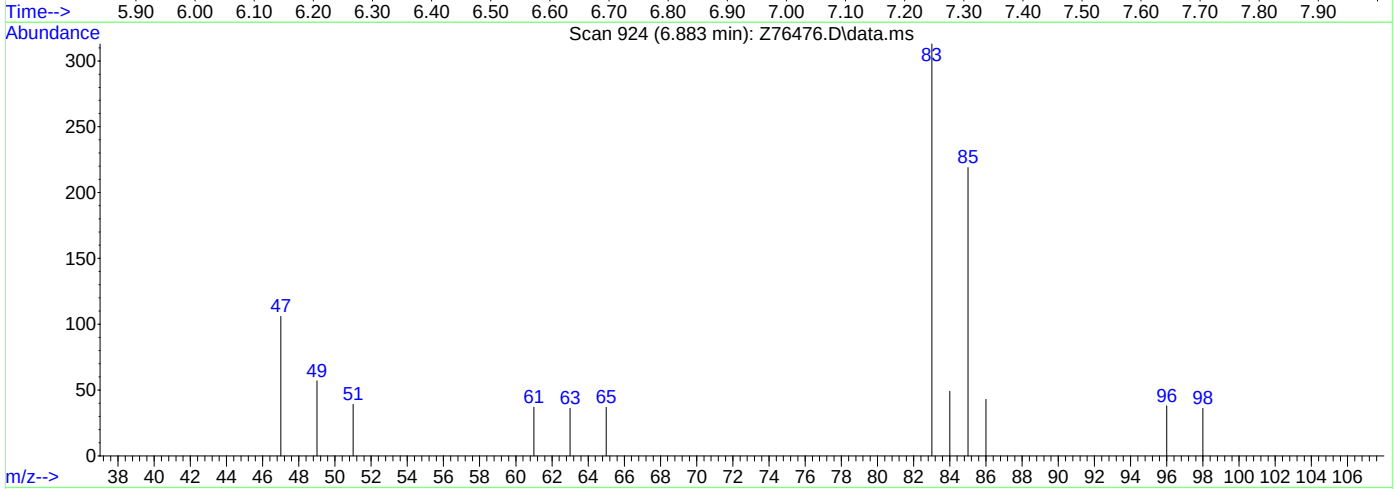
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.97
47.00	21.00	33.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76476.D
Acq On : 19 Aug 2024 4:27 pm
Operator : claudias
Sample : FC17980-10 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Aug 20 06:47:24 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration





TIC: Z76476.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.24ug/L m

response 577

Ion	Exp%	Act%
83.00	100	100
85.00	65.90	69.97
47.00	21.00	33.87
0.00	0.00	0.00

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76460.D
Acq On : 19 Aug 2024 10:20 am
Operator : claudias
Sample : FC17980-11 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 10:52:01 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

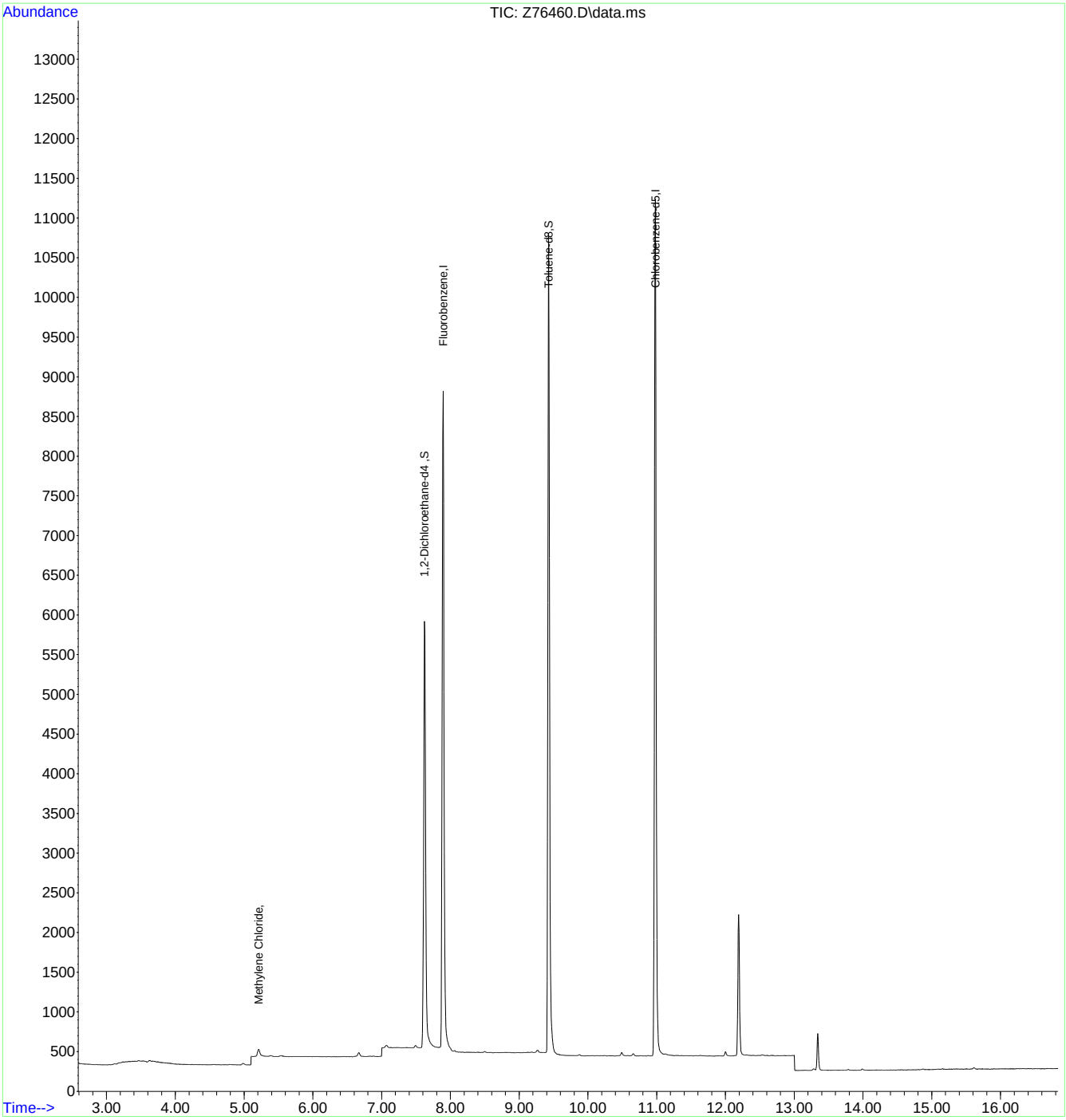
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10717	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.981	117	12290	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.622	65	5495	5.37	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 107.40%			
19) Toluene-d8	9.428	98	11108	4.88	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.60%			
Target Compounds						Qvalue
5) Methylene Chloride	5.213	49	86	0.06	ug/L	91

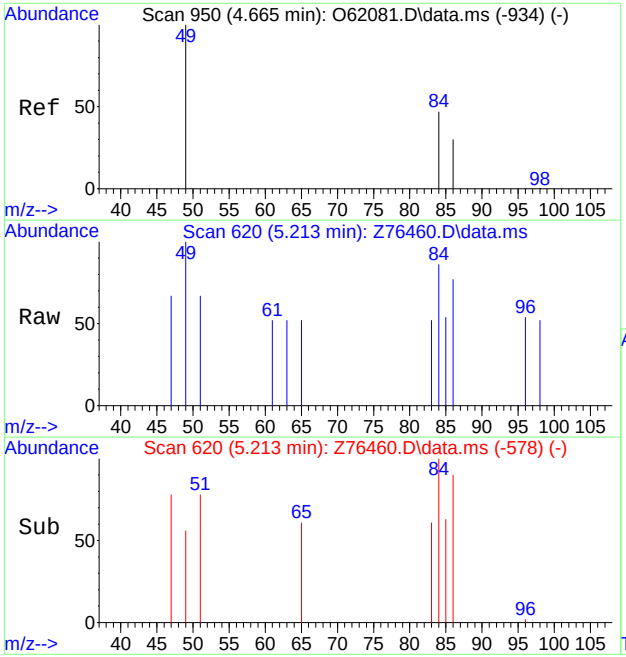
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76460.D
Acq On : 19 Aug 2024 10:20 am
Operator : claudias
Sample : FC17980-11 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 19 10:52:01 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

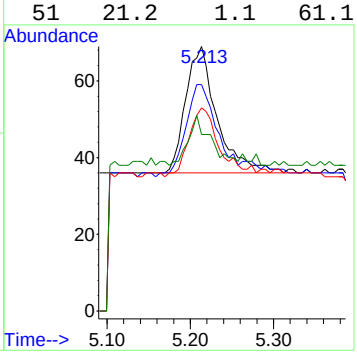




#5
Methylene Chloride
Concen: 0.06 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.000 min
Lab File: Z76460.D
Acq: 19 Aug 2024 10:20 am

Tgt Ion: 49 Resp: 86

Ion	Ratio	Lower	Upper
49	100		
84	69.7	49.7	109.7
86	51.5	22.0	82.0
51	21.2	1.1	61.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76459.D
Acq On : 19 Aug 2024 9:45 am
Operator : claudias
Sample : mb Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 10:02:52 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

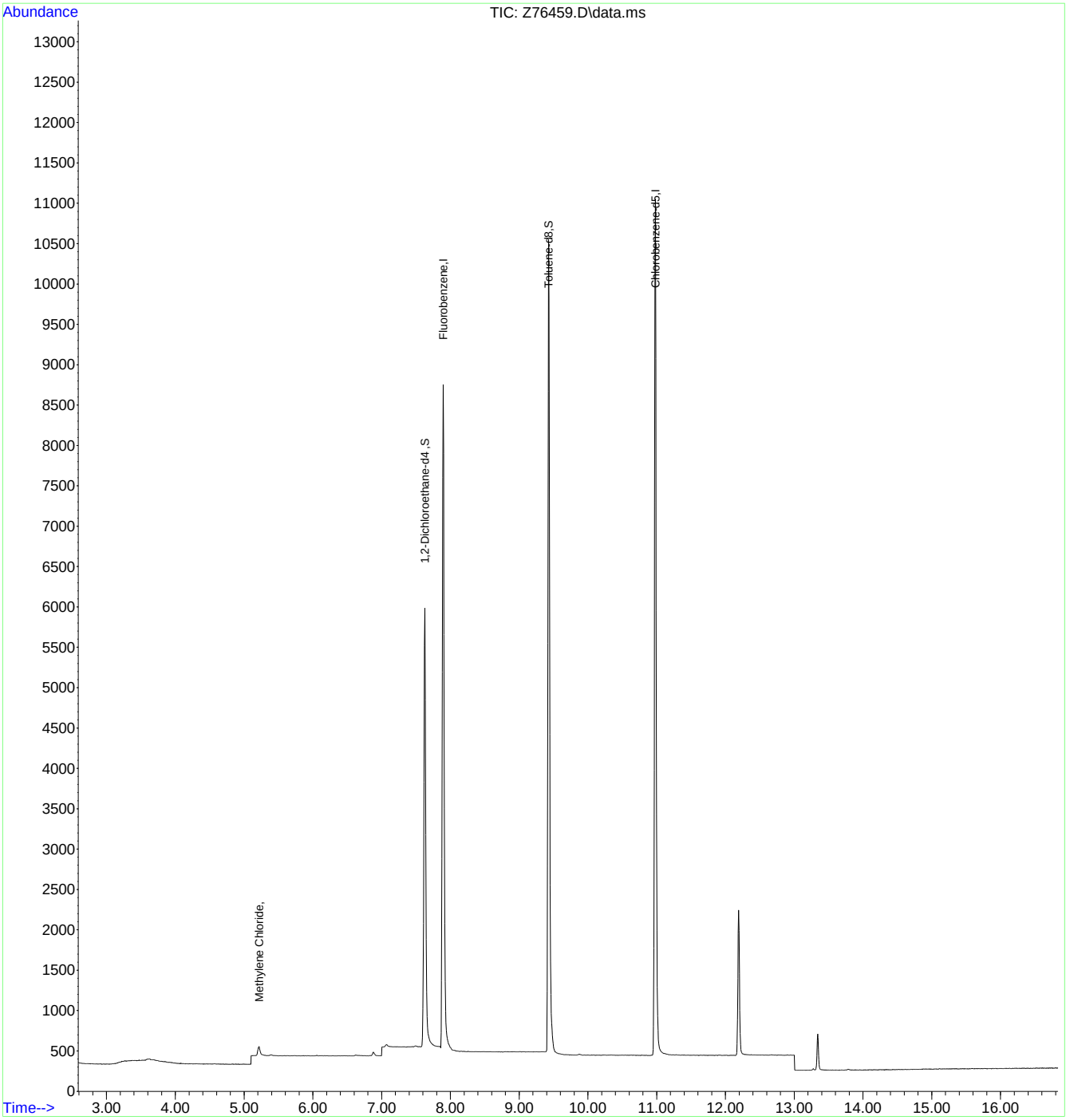
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10609	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	12063	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5411	5.34	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 106.80%			
19) Toluene-d8	9.428	98	11034	4.94	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 98.80%			
Target Compounds						Qvalue
5) Methylene Chloride	5.219	49	102	0.07	ug/L	91

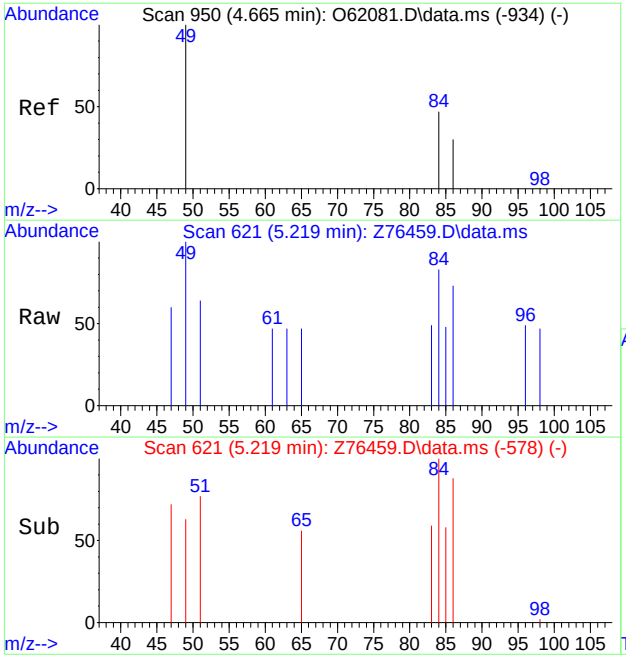
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76459.D
Acq On : 19 Aug 2024 9:45 am
Operator : claudias
Sample : mb Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 19 10:02:52 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

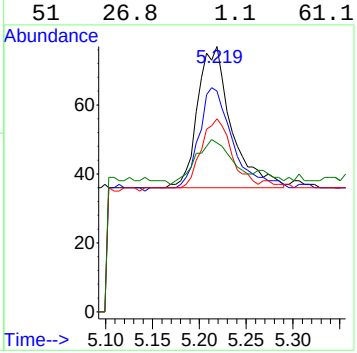




#5
Methylene Chloride
Concen: 0.07 ug/L
RT: 5.219 min Scan# 621
Delta R.T. 0.006 min
Lab File: Z76459.D
Acq: 19 Aug 2024 9:45 am

Tgt Ion: 49 Resp: 102

Ion	Ratio	Lower	Upper
49	100		
84	68.3	49.7	109.7
86	48.8	22.0	82.0
51	26.8	1.1	61.1



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76457.D
Acq On : 19 Aug 2024 8:31 am
Operator : claudias
Sample : bs Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 19 08:49:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

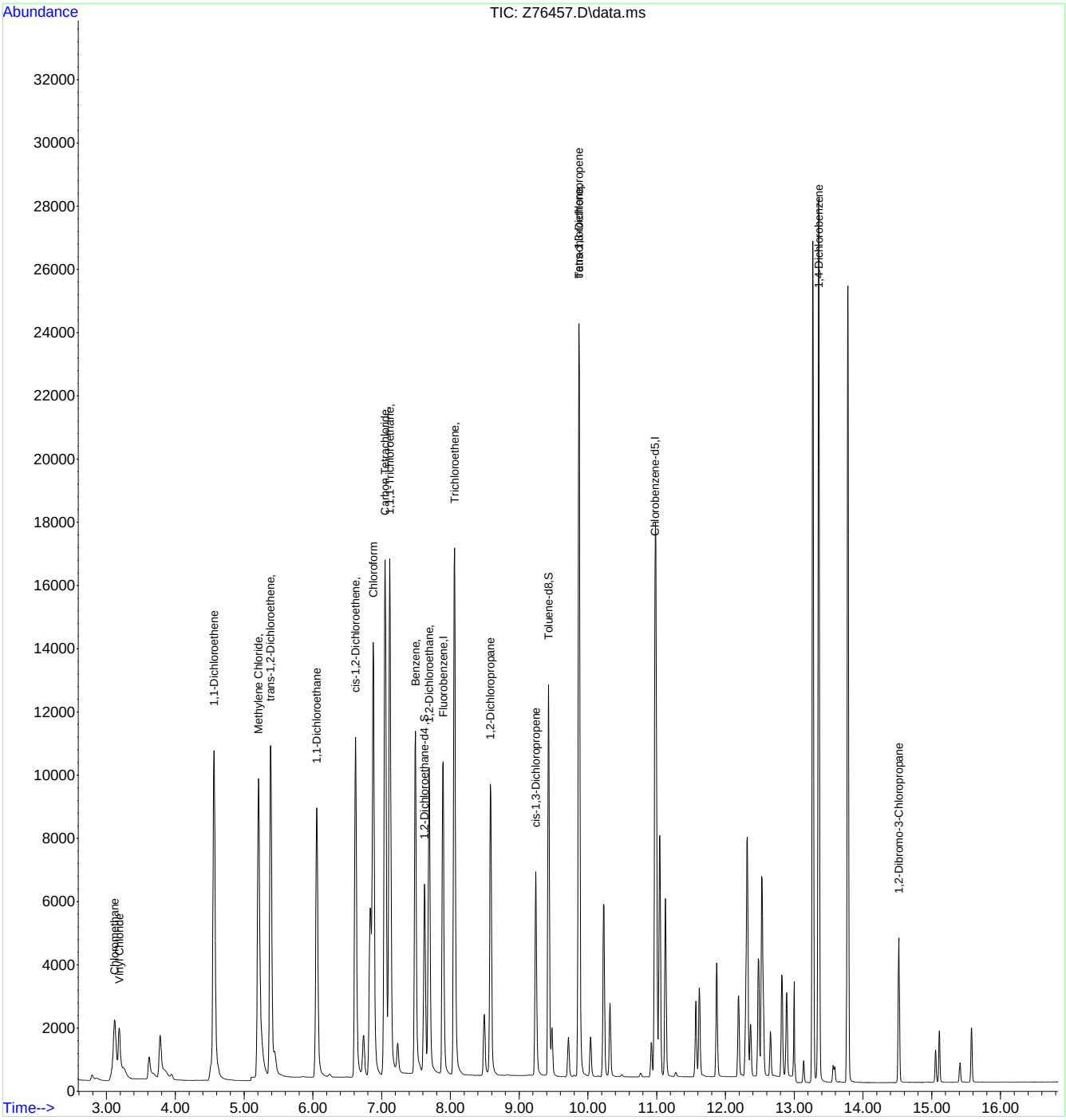
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.895	96	12578	5.00	ug/L		0.00
18) Chlorobenzene-d5	10.975	117	14577	5.00	ug/L		0.00
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.622	65	5703	4.75	ug/L		0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 95.00%				
19) Toluene-d8	9.428	98	12632	4.68	ug/L		0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 93.60%				
Target Compounds							Qvalue
2) Vinyl Chloride	3.184	62	3446	5.02	ug/L		98
3) Chloromethane	3.116	50	4746	4.49	ug/L		97
4) 1,1-Dichloroethene	4.562	61	9723	5.67	ug/L		96
5) Methylene Chloride	5.208	49	8877	5.31	ug/L		95
6) trans-1,2-Dichloroethene	5.384	61	8954	5.82	ug/L		95
7) 1,1-Dichloroethane	6.054	63	10868	5.53	ug/L		99
8) cis-1,2-Dichloroethene	6.619	96	6498	5.76	ug/L		93
9) Chloroform	6.878	83	14454	5.68	ug/L		98
10) Carbon Tetrachloride	7.051	117	13066	5.88	ug/L		100
11) 1,1,1-Trichloroethane	7.119	97	14232	5.86	ug/L		99
12) Benzene	7.493	78	16711	5.58	ug/L		100
14) 1,2-Dichloroethane	7.689	62	10523	5.56	ug/L		99
15) Trichloroethene	8.061	95	6266	5.76	ug/L		97
16) 1,2-Dichloropropane	8.582	63	4582	5.51	ug/L		95
17) cis-1,3-Dichloropropene	9.240	75	6003	4.96	ug/L		93
20) trans-1,3-Dichloropropene	9.869	75	5788	4.79	ug/L		96
21) Tetrachloroethene	9.869	166	8644	5.67	ug/L	#	98
22) 1,4-Dichlorobenzene	13.354	146	17619	5.26	ug/L		98
23) 1,2-Dibromo-3-Chloropr...	14.521	75	1533	4.87	ug/L		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76457.D
Acq On : 19 Aug 2024 8:31 am
Operator : claudias
Sample : bs Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 19 08:49:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Mon Aug 19 12:37:31 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76480.D
Acq On : 19 Aug 2024 5:59 pm
Operator : claudias
Sample : FC17979-17MS Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 20 06:47:32 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

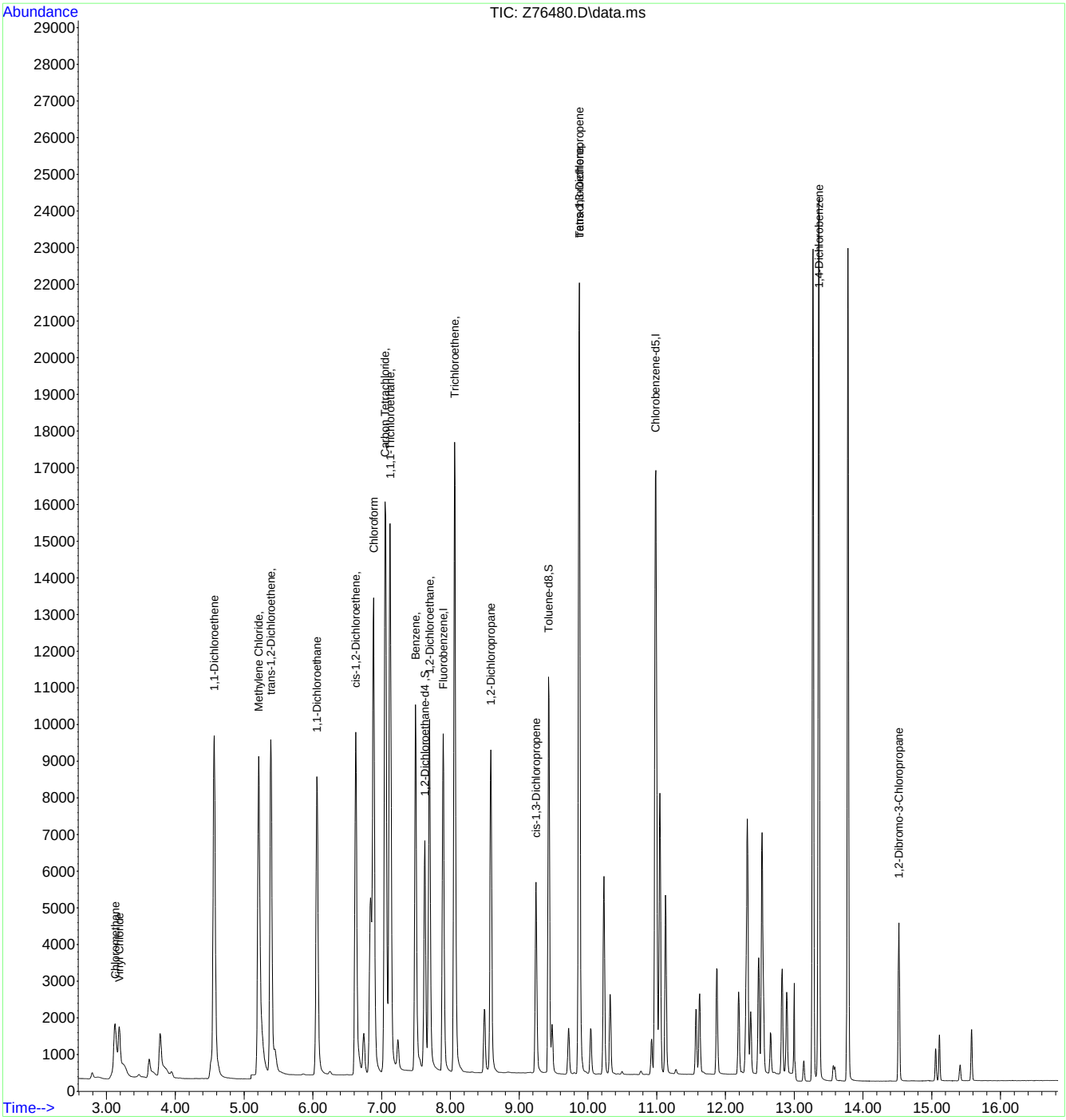
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	11509	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	14104	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5895	5.37	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 107.40%			
19) Toluene-d8	9.428	98	11296	4.32	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 86.40%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	3039	4.83	ug/L	98
3) Chloromethane	3.125	50	3788	3.90	ug/L	99
4) 1,1-Dichloroethene	4.566	61	8758	5.58	ug/L	96
5) Methylene Chloride	5.213	49	8299	5.43	ug/L	96
6) trans-1,2-Dichloroethene	5.389	61	7686	5.44	ug/L	98
7) 1,1-Dichloroethane	6.059	63	10153	5.65	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	5633	5.45	ug/L	96
9) Chloroform	6.883	83	13604	5.86	ug/L	99
10) Carbon Tetrachloride	7.051	117	12702	6.29	ug/L	98
11) 1,1,1-Trichloroethane	7.126	97	13490	6.09	ug/L	99
12) Benzene	7.492	78	15308	5.59	ug/L	97
14) 1,2-Dichloroethane	7.696	62	10532	6.12	ug/L	99
15) Trichloroethene	8.060	95	6446	6.49	ug/L	99
16) 1,2-Dichloropropane	8.588	63	4287	5.63	ug/L	94
17) cis-1,3-Dichloropropene	9.246	75	4985	4.50	ug/L	97
20) trans-1,3-Dichloropropene	9.874	75	4882	4.21	ug/L	97
21) Tetrachloroethene	9.874	166	8097	5.48	ug/L #	99
22) 1,4-Dichlorobenzene	13.358	146	15242	4.70	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.520	75	1499	4.92	ug/L	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76480.D
Acq On : 19 Aug 2024 5:59 pm
Operator : claudias
Sample : FC17979-17MS Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,5
ALS Vial : 27 Sample Multiplier: 1

Quant Time: Aug 20 06:47:32 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76481.D
Acq On : 19 Aug 2024 6:23 pm
Operator : claudias
Sample : FC17979-17MSD Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,5
ALS Vial : 28 Sample Multiplier: 1

Quant Time: Aug 20 06:47:34 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

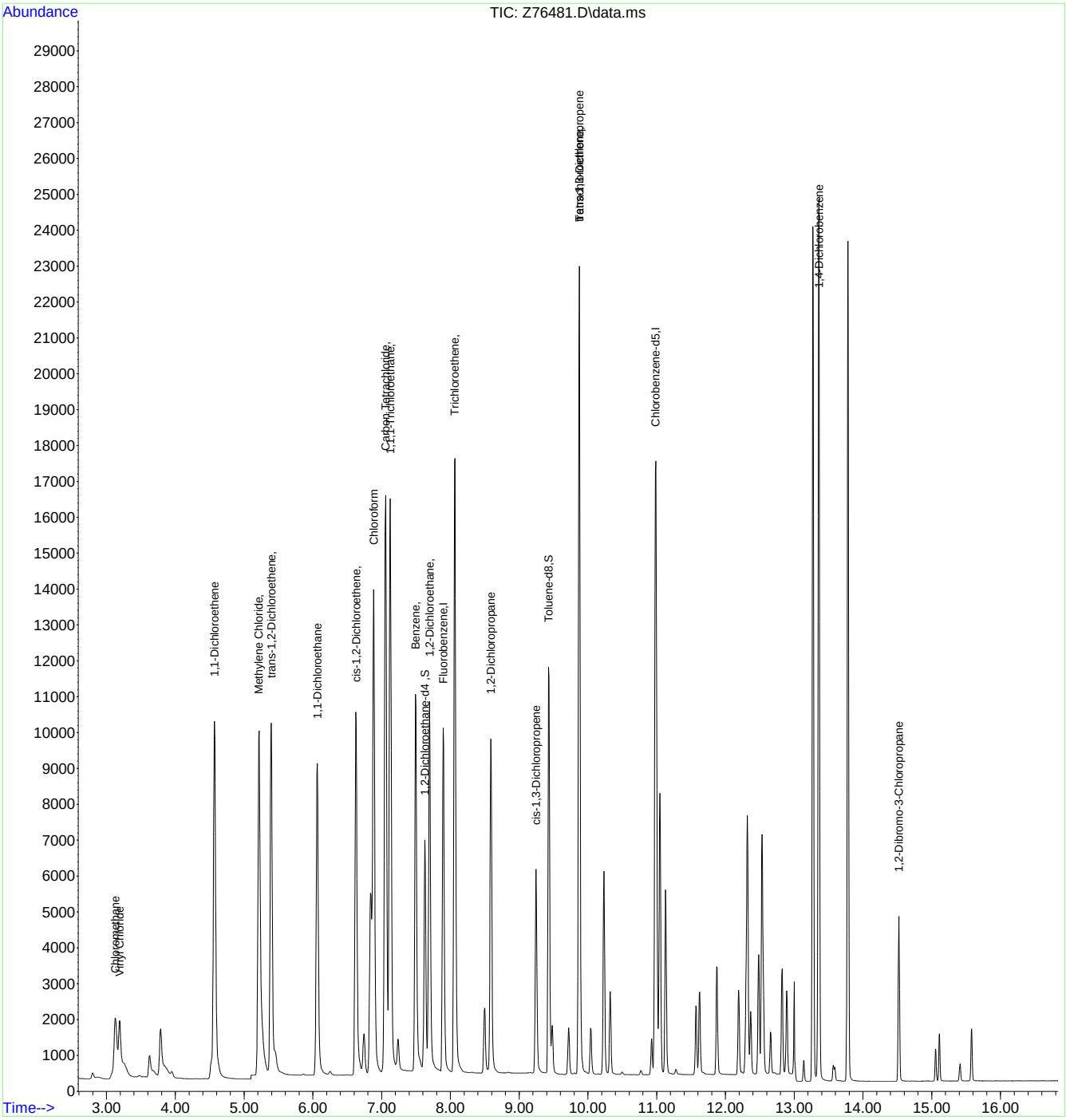
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	12150	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	14628	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6000	5.17	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 103.40%			
19) Toluene-d8	9.428	98	11924	4.40	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 88.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.192	62	3436	5.19	ug/L	99
3) Chloromethane	3.125	50	4331	4.23	ug/L	99
4) 1,1-Dichloroethene	4.570	61	9242	5.58	ug/L	96
5) Methylene Chloride	5.213	49	9168	5.71	ug/L	93
6) trans-1,2-Dichloroethene	5.394	61	8279	5.56	ug/L	99
7) 1,1-Dichloroethane	6.065	63	10836	5.72	ug/L	100
8) cis-1,2-Dichloroethene	6.630	96	6153	5.64	ug/L	99
9) Chloroform	6.883	83	14153	5.77	ug/L	98
10) Carbon Tetrachloride	7.058	117	12896	6.02	ug/L	99
11) 1,1,1-Trichloroethane	7.126	97	13943	5.95	ug/L	99
12) Benzene	7.492	78	16382	5.66	ug/L	96
14) 1,2-Dichloroethane	7.696	62	11019	6.06	ug/L	99
15) Trichloroethene	8.061	95	6658	6.35	ug/L	97
16) 1,2-Dichloropropane	8.588	63	4562	5.68	ug/L	95
17) cis-1,3-Dichloropropene	9.246	75	5384	4.60	ug/L	96
20) trans-1,3-Dichloropropene	9.874	75	5240	4.35	ug/L	97
21) Tetrachloroethene	9.874	166	8261	5.40	ug/L #	98
22) 1,4-Dichlorobenzene	13.358	146	15894	4.73	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.520	75	1542	4.88	ug/L	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76481.D
Acq On : 19 Aug 2024 6:23 pm
Operator : claudias
Sample : FC17979-17MSD Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,5
ALS Vial : 28 Sample Multiplier: 1

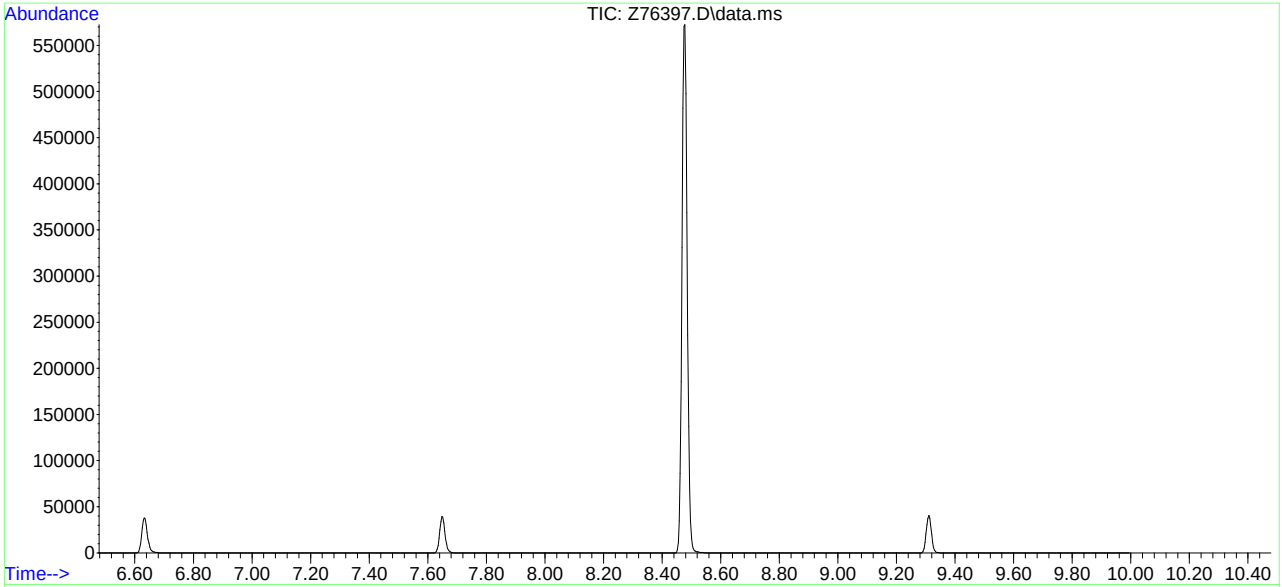
Quant Time: Aug 20 06:47:34 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

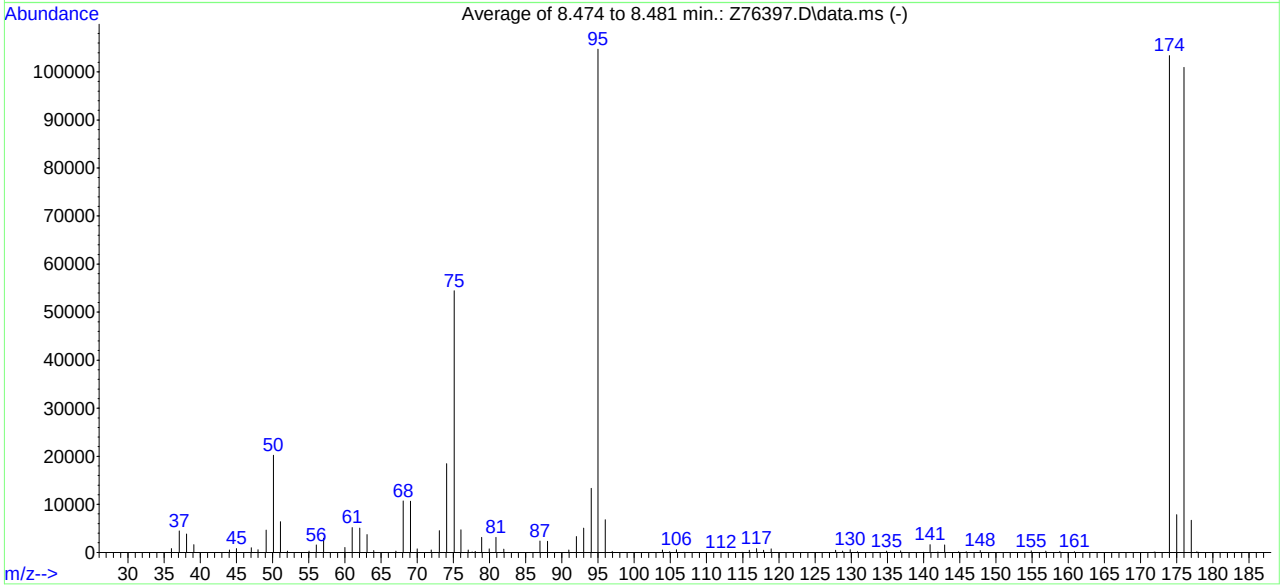


Methods: SW-846 8260B

Data File : C:\msdchem\1\data\081524\Z76397.D Vial: 1
Acq On : 15 Aug 2024 9:27 am Operator: claudias
Sample : bfb Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B





AutoFind: Scans 1489, 1490, 1491; Background Corrected with Scan 1478

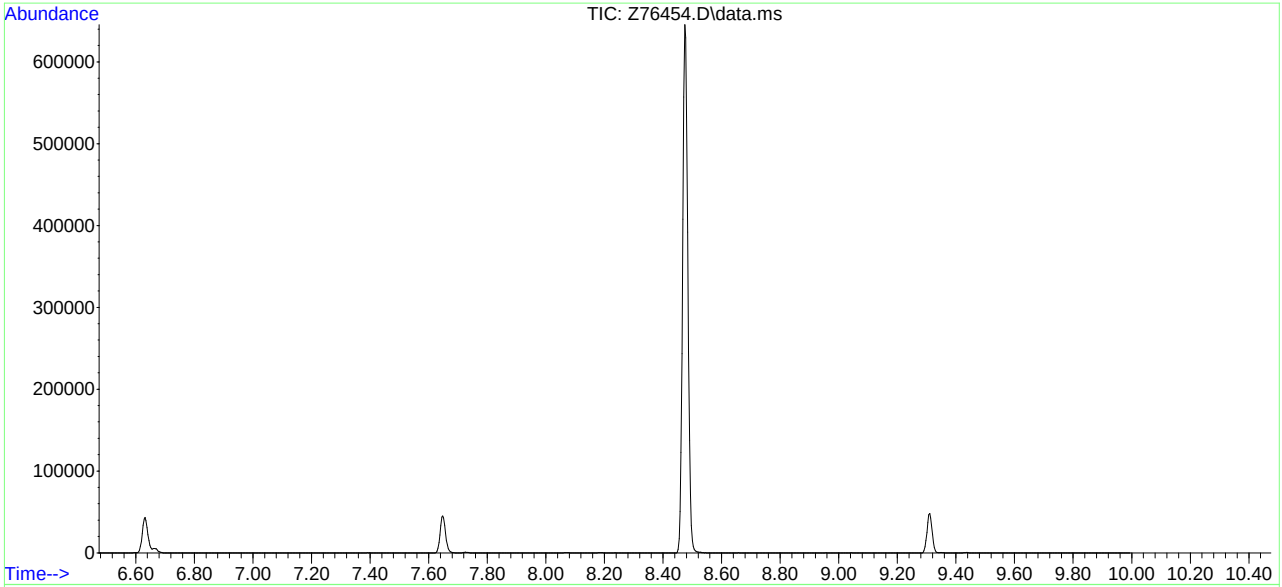
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	104717	PASS
96	95	5	9	6.5	6818	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	98.7	103397	PASS
175	174	5	9	7.6	7830	PASS
176	174	95	105	97.6	100920	PASS
177	176	5	10	6.6	6663	PASS

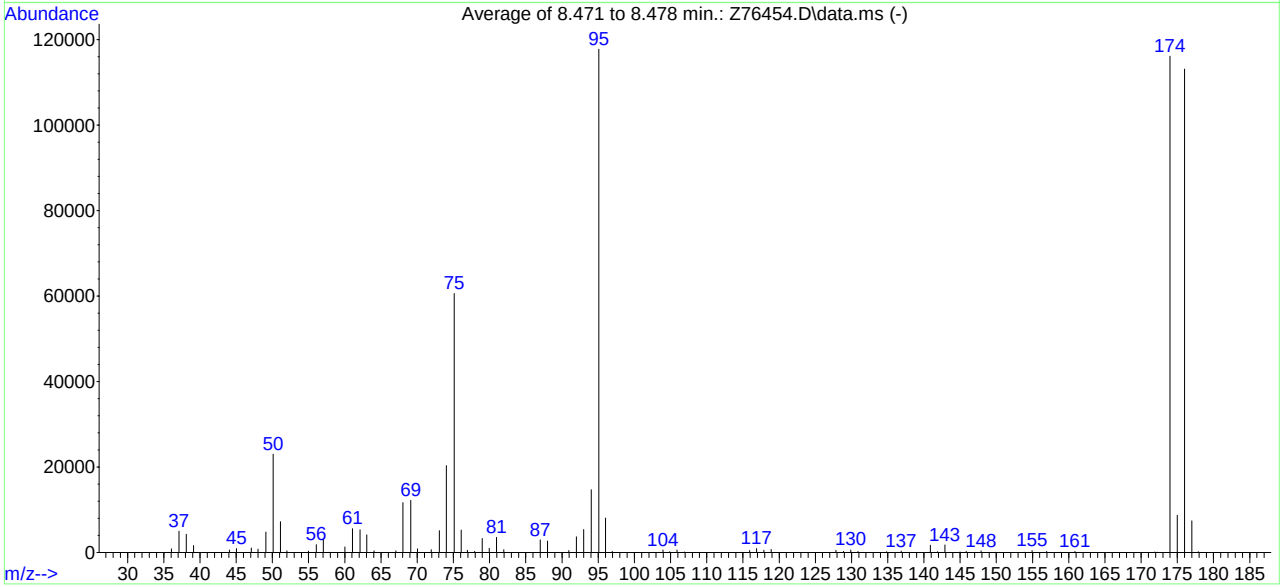
Z76397.D SIMCL-08-15-2024.M Thu Aug 15 15:21:50 2024

Methods: SW-846 8260B

Data File : C:\msdchem\1\data\081924\Z76454.D Vial: 1
Acq On : 19 Aug 2024 7:10 am Operator: claudias
Sample : bfb Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-08-15-2024.M (RTE Integrator)
Title : Standard Methods 6200B





AutoFind: Scans 1488, 1489, 1490; Background Corrected with Scan 1478

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	117781	PASS
96	95	5	9	6.8	8039	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	200	98.6	116139	PASS
175	174	5	9	7.5	8695	PASS
176	174	95	105	97.4	113157	PASS
177	176	5	10	6.5	7358	PASS

Z76454.D SIMCL-08-15-2024.M Mon Aug 19 07:21:26 2024

Manual Integrations APPROVED
(compounds with "m" flag)
Karen Watson
08/16/24 09:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:31:39 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

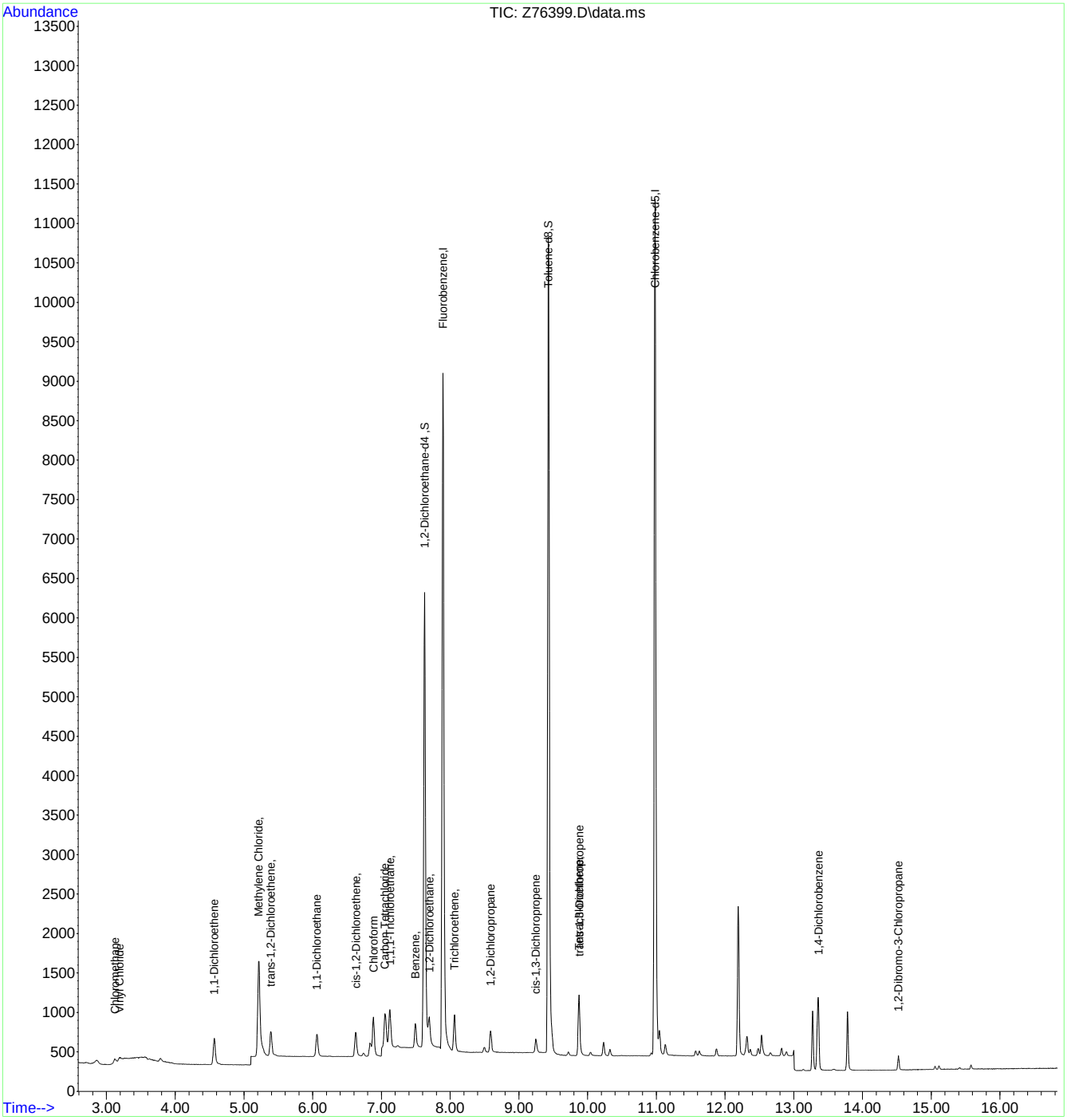
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	10979	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	12043	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5727	6.43	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 128.60%#			
19) Toluene-d8	9.428	98	11392	4.50	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 90.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	112	0.21	ug/L #	41
3) Chloromethane	3.120	50	199	0.23	ug/L	99
4) 1,1-Dichloroethene	4.566	61	309	0.21	ug/L	91
5) Methylene Chloride	5.213	49	1142	0.75	ug/L	90
6) trans-1,2-Dichloroethene	5.389	61	269	0.20	ug/L	92
7) 1,1-Dichloroethane	6.059	63	353	0.21	ug/L	100
8) cis-1,2-Dichloroethene	6.630	96	193	0.19	ug/L	95
9) Chloroform	6.883	83	493m	0.24	ug/L	
10) Carbon Tetrachloride	7.051	117	359m	0.20	ug/L	
11) 1,1,1-Trichloroethane	7.126	97	434m	0.22	ug/L	
12) Benzene	7.492	78	497	0.17	ug/L	92
14) 1,2-Dichloroethane	7.696	62	336	0.22	ug/L	98
15) Trichloroethene	8.060	95	180	0.19	ug/L	98
16) 1,2-Dichloropropane	8.588	63	137	0.18	ug/L	88
17) cis-1,3-Dichloropropene	9.246	75	190	0.17	ug/L	89
20) trans-1,3-Dichloropropene	9.880	75	182	0.15	ug/L	91
21) Tetrachloroethene	9.874	166	317	0.22	ug/L #	99
22) 1,4-Dichlorobenzene	13.358	146	542	0.18	ug/L	91
23) 1,2-Dibromo-3-Chloropr...	14.520	75	84m	0.26	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:31:39 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



Manual Integration Approval Summary

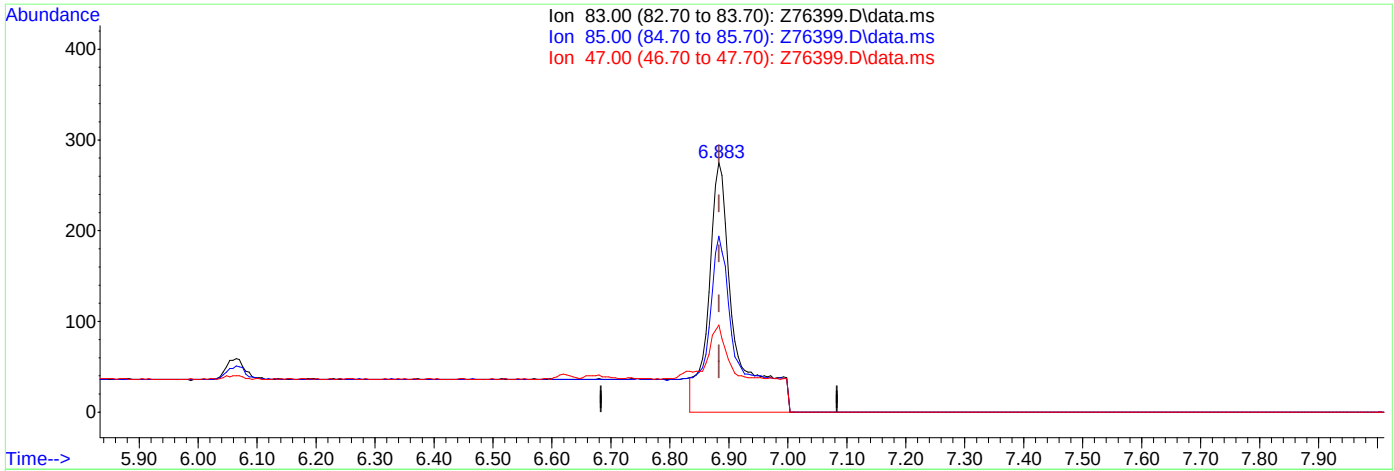
Sample Number: VZ3076-IC3076
Lab FileID: Z76399.D
Injection Time: 08/15/24 10:17
Method: SW846 8260D BY SIM
Analyst approved: 08/15/24 15:53 Claudia Sosa
Supervisor approved: 08/16/24 09:33 Karen Watson

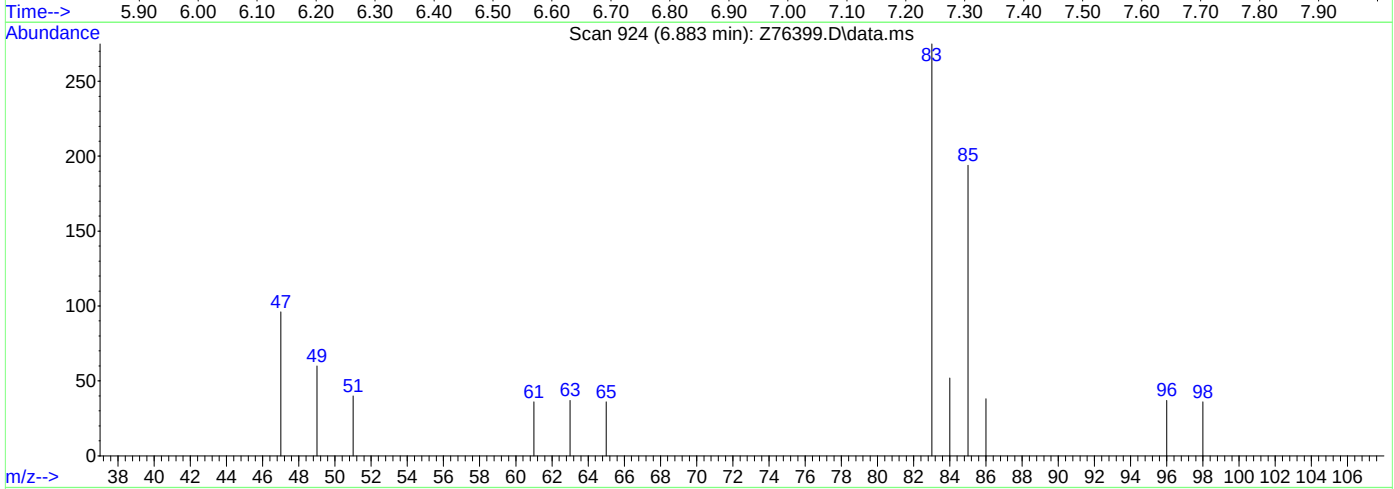
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration
Carbon Tetrachloride	56-23-5		7.05	Poor instrument integration
1,1,1-Trichloroethane	71-55-6		7.13	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.52	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.42ug/L

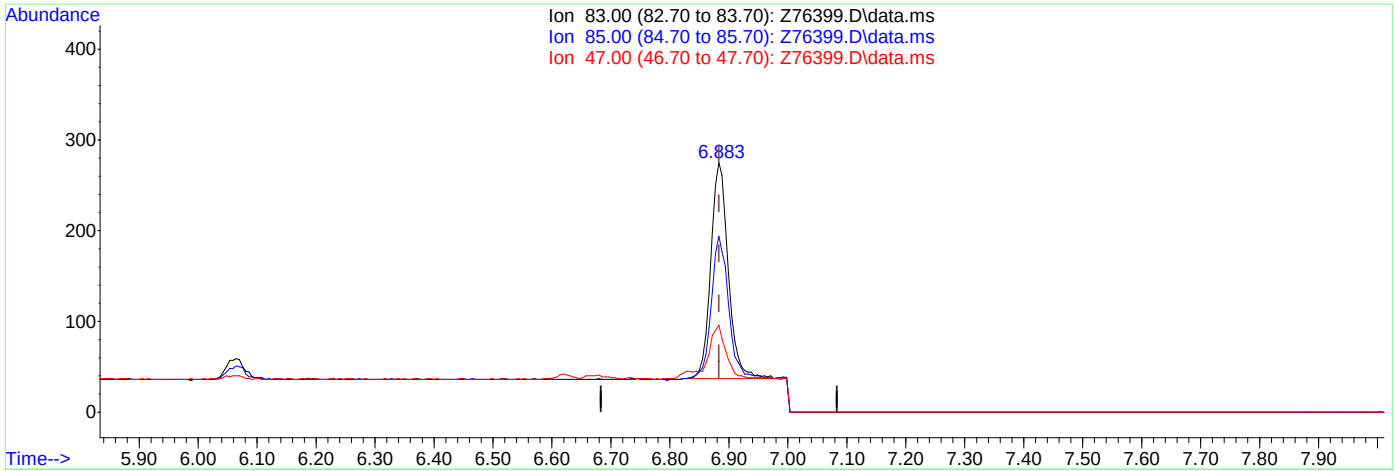
response 866

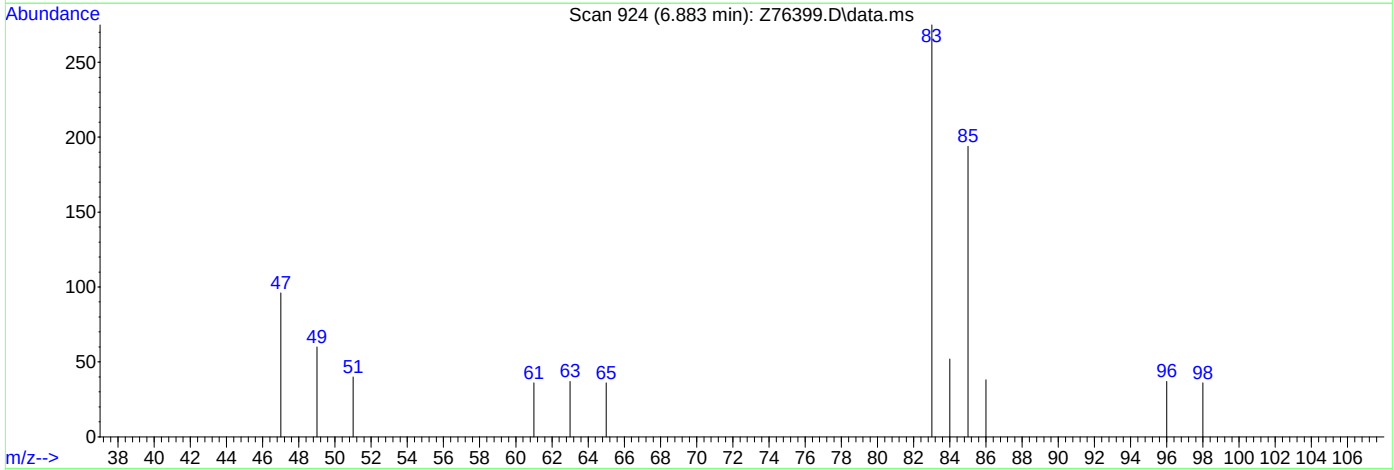
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.55
47.00	21.00	34.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(9) Chloroform

6.883min (-0.000) 0.24ug/L m

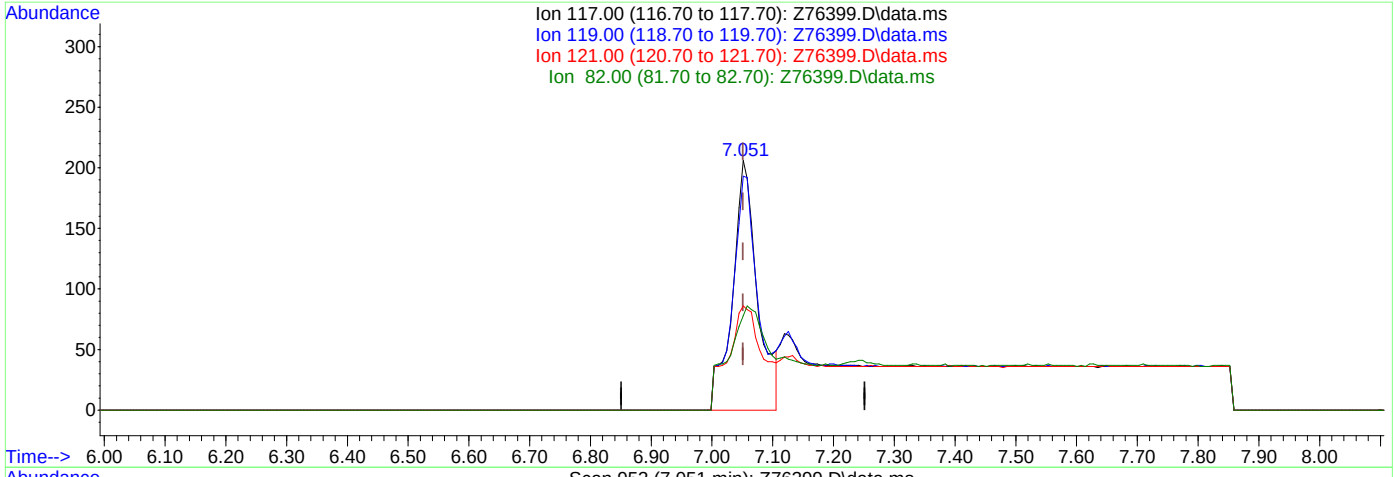
response 493

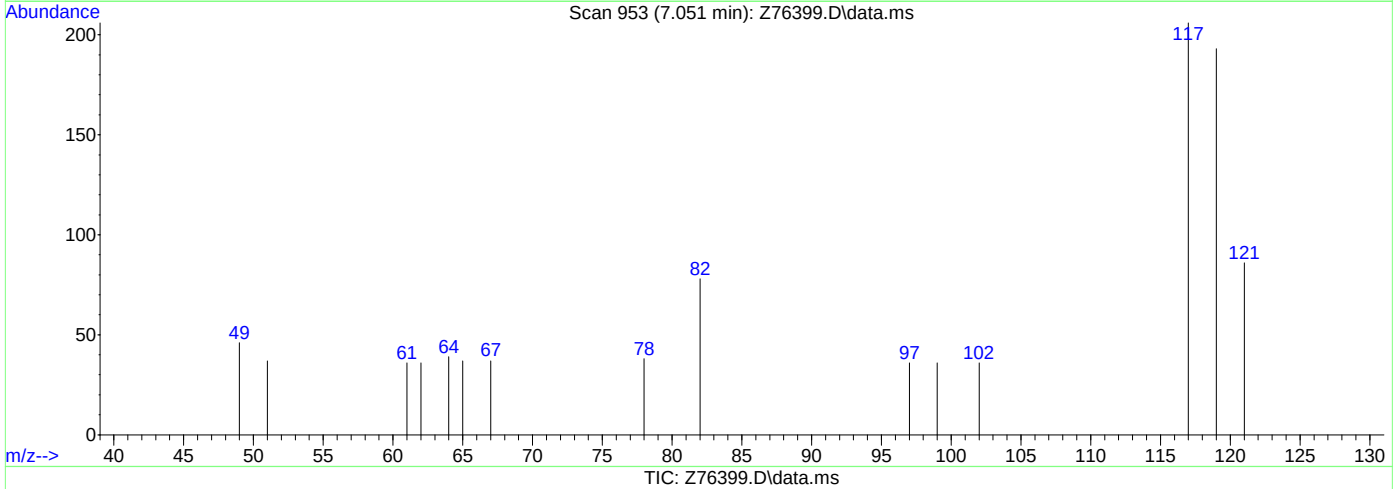
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	70.55
47.00	21.00	34.91
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(10) Carbon Tetrachloride ( )

7.051min (+0.000) 0.31ug/L

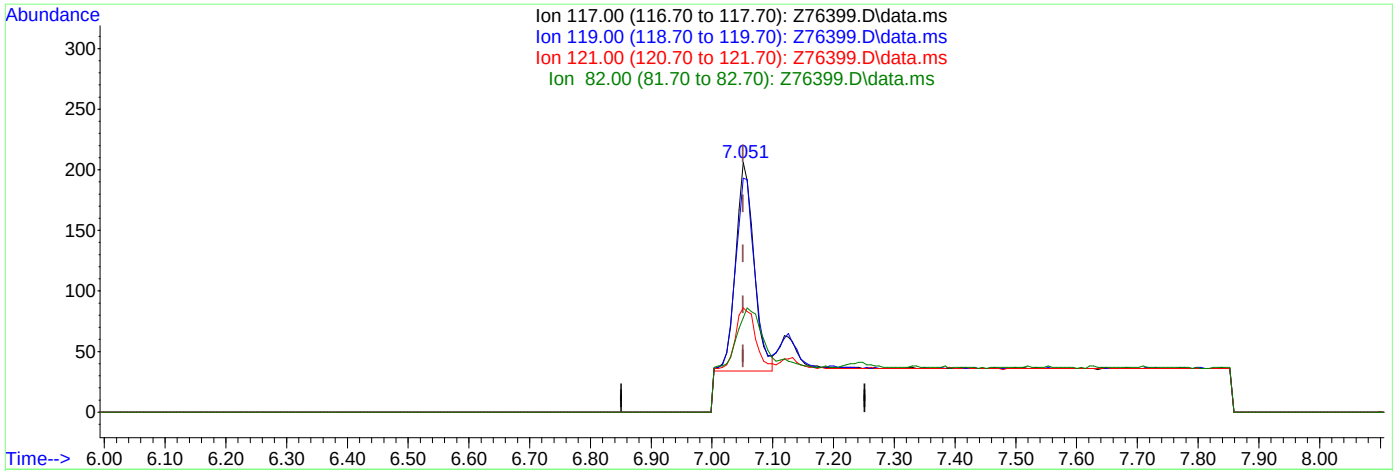
response 574

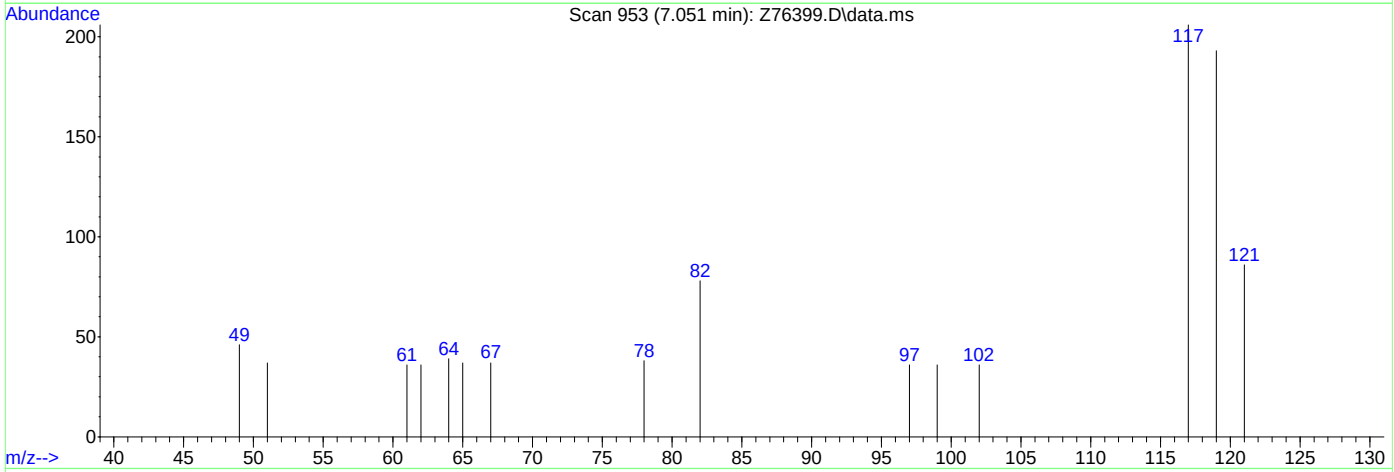
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	93.69
121.00	31.20	41.75
82.00	20.80	37.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(10) Carbon Tetrachloride ( )

7.051min (+0.000) 0.20ug/L m

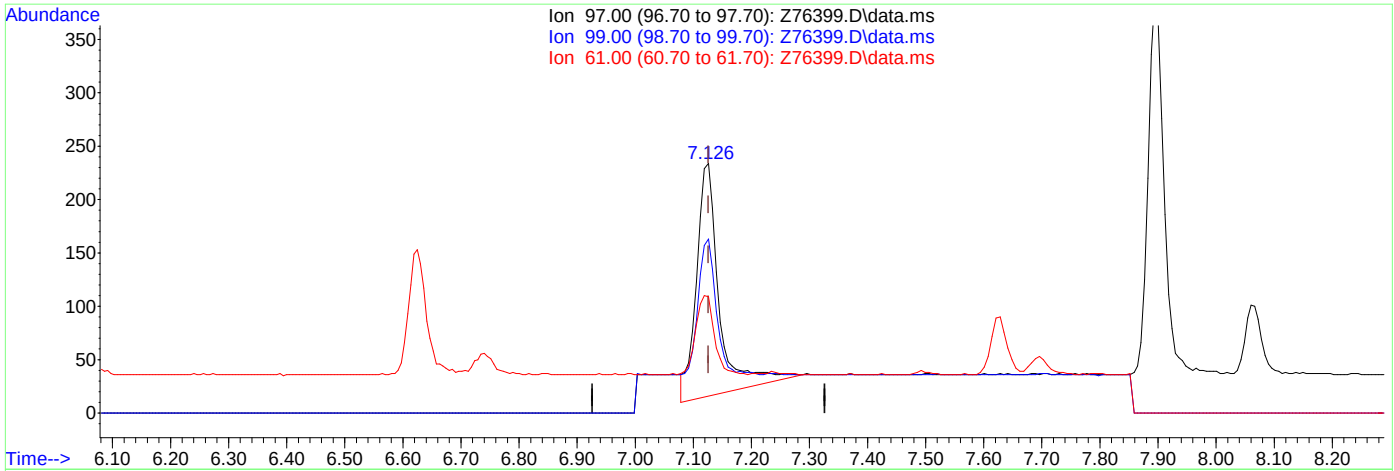
response 359

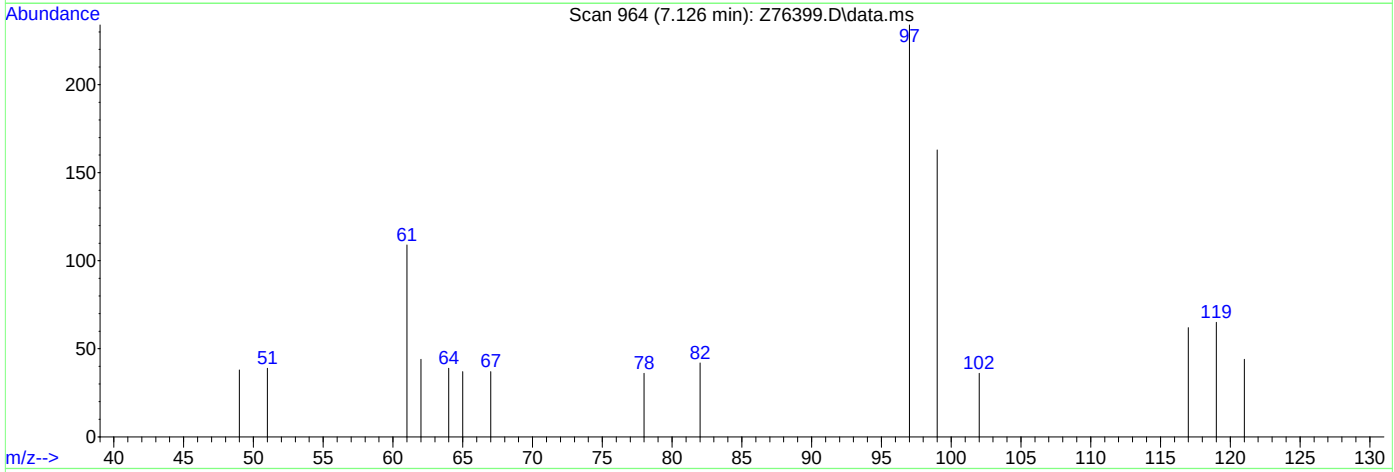
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	93.69
121.00	31.20	41.75
82.00	20.80	37.86

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(11) 1,1,1-Trichloroethane ( )

7.126min (-0.000) 0.30ug/L

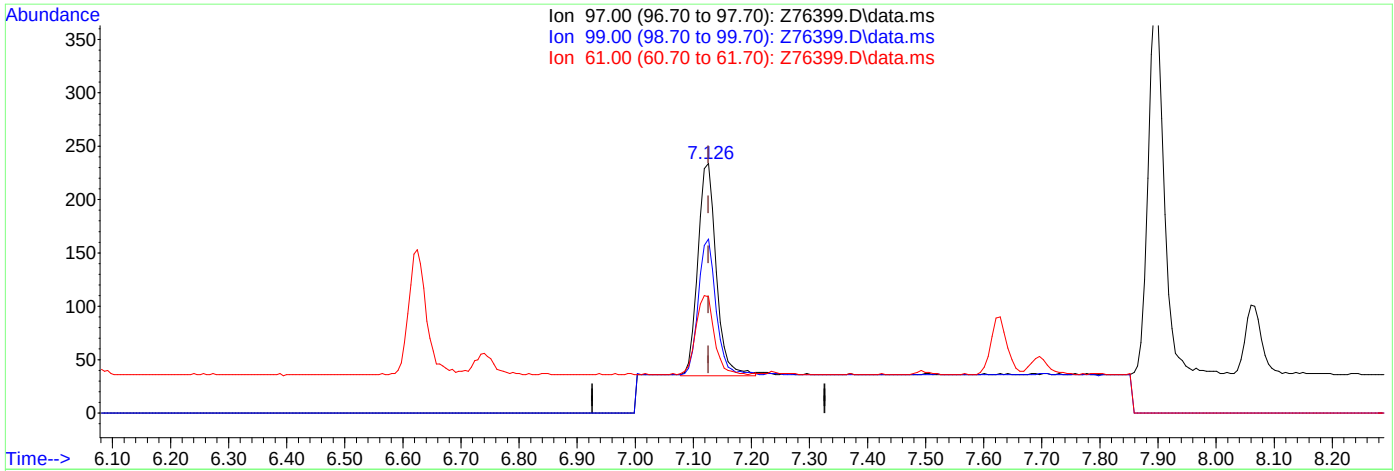
response 594

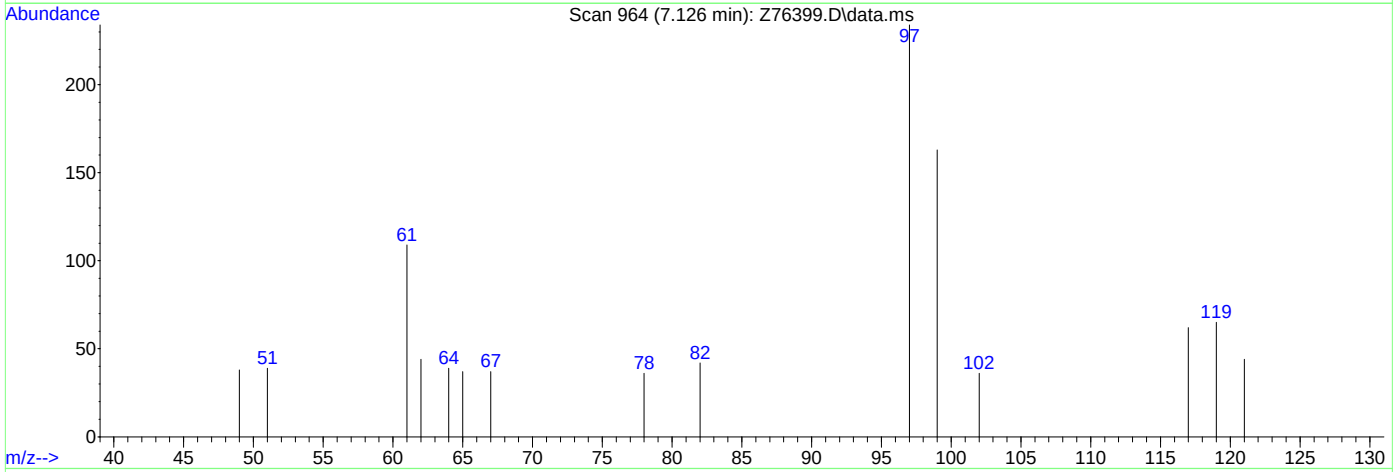
Ion	Exp%	Act%
97.00	100	100
99.00	64.80	64.14
61.00	33.90	36.87
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(11) 1,1,1-Trichloroethane ( )

7.126min (-0.000) 0.22ug/L m

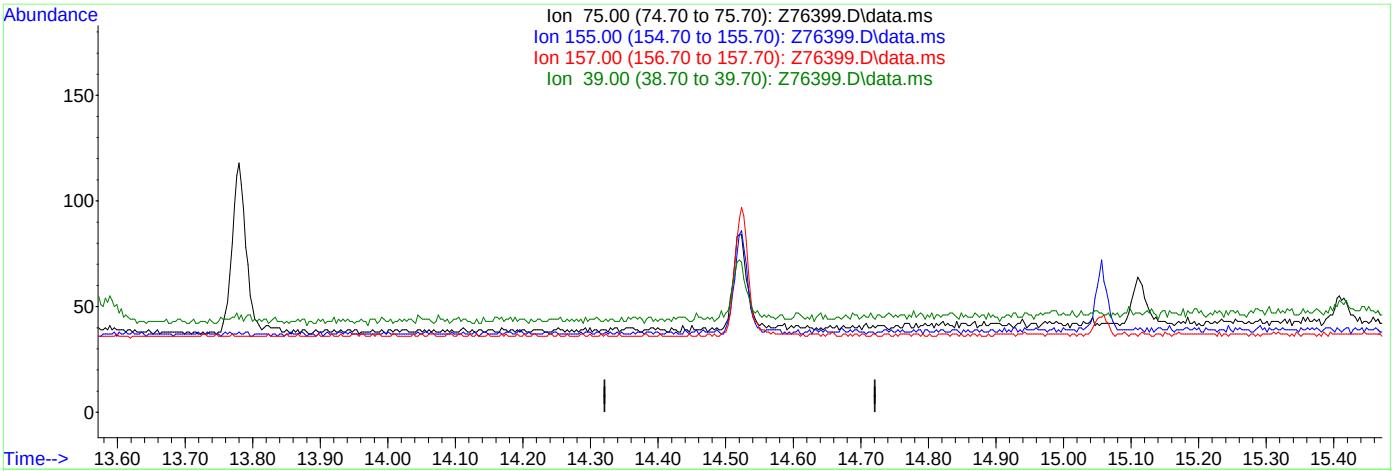
response 434

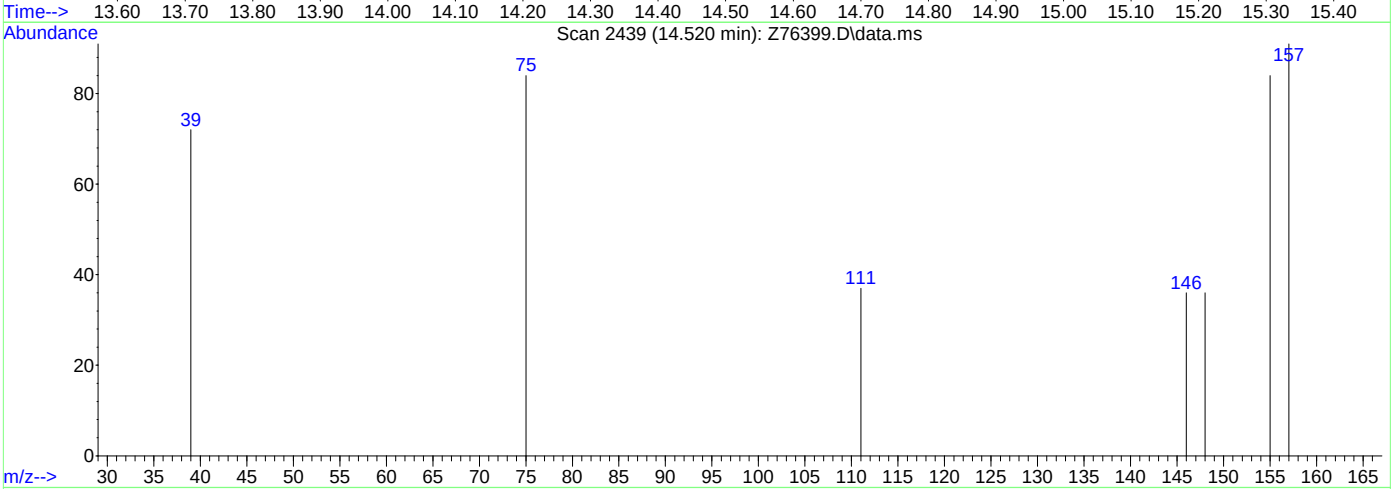
Ion	Exp%	Act%
97.00	100	100
99.00	64.80	69.66
61.00	33.90	46.58
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.521min (-14.521) 0.00ug/L

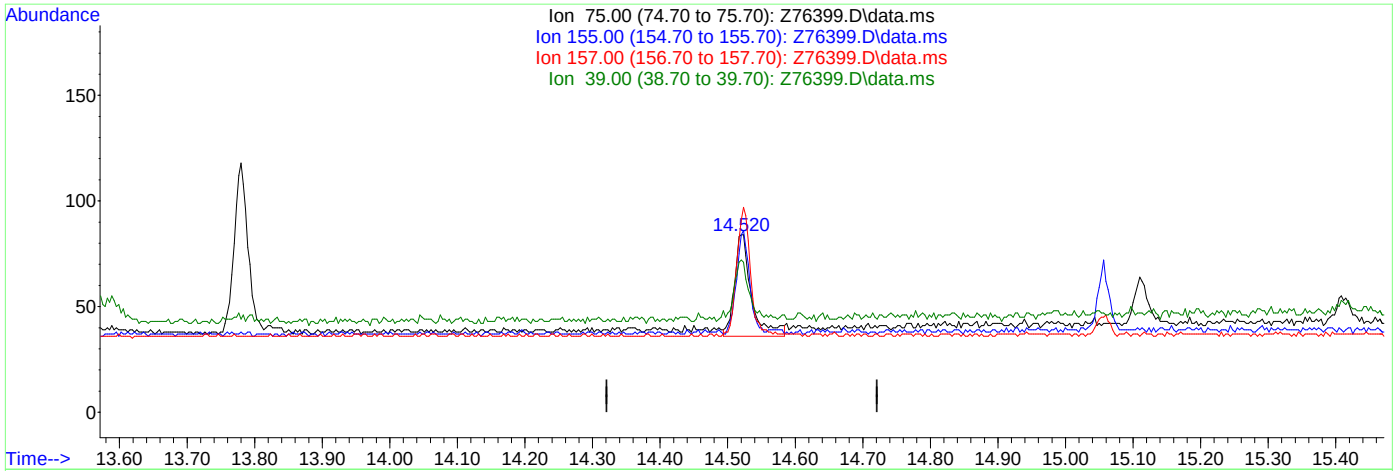
response 0

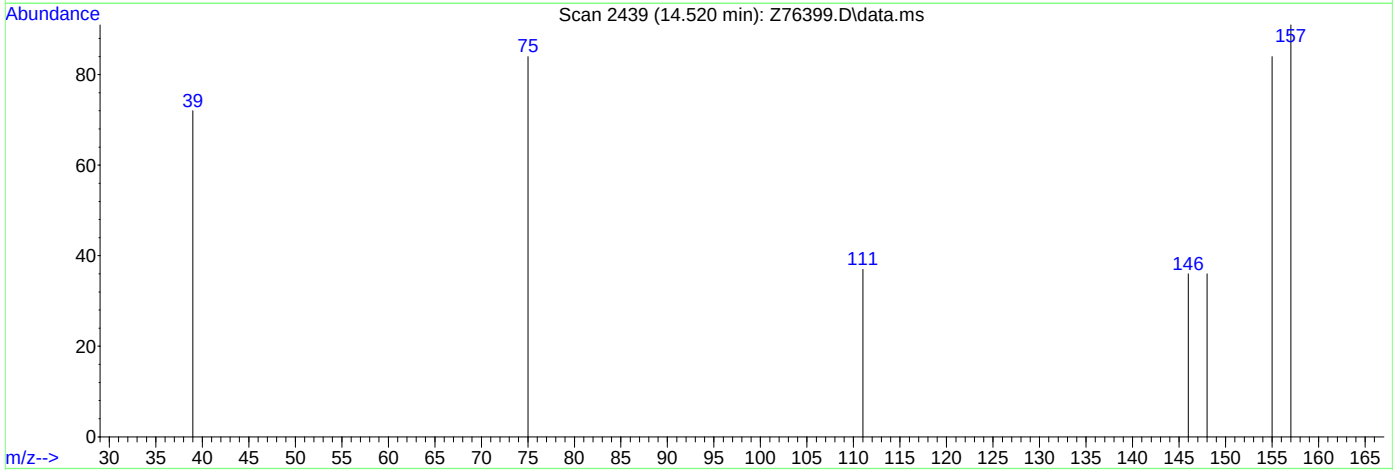
Ion	Exp%	Act%
75.00	100	0.00
155.00	116.30	0.00#
157.00	149.10	0.00#
39.00	55.20	0.00#

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76399.D
Acq On : 15 Aug 2024 10:17 am
Operator : claudias
Sample : IC3076-1 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 15 11:28:15 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76399.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.520min (-0.001) 0.26ug/L m

response 84

Ion	Exp%	Act%
75.00	100	100
155.00	116.30	100.00
157.00	149.10	108.33#
39.00	55.20	85.71#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
08/16/24 09:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:34:36 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

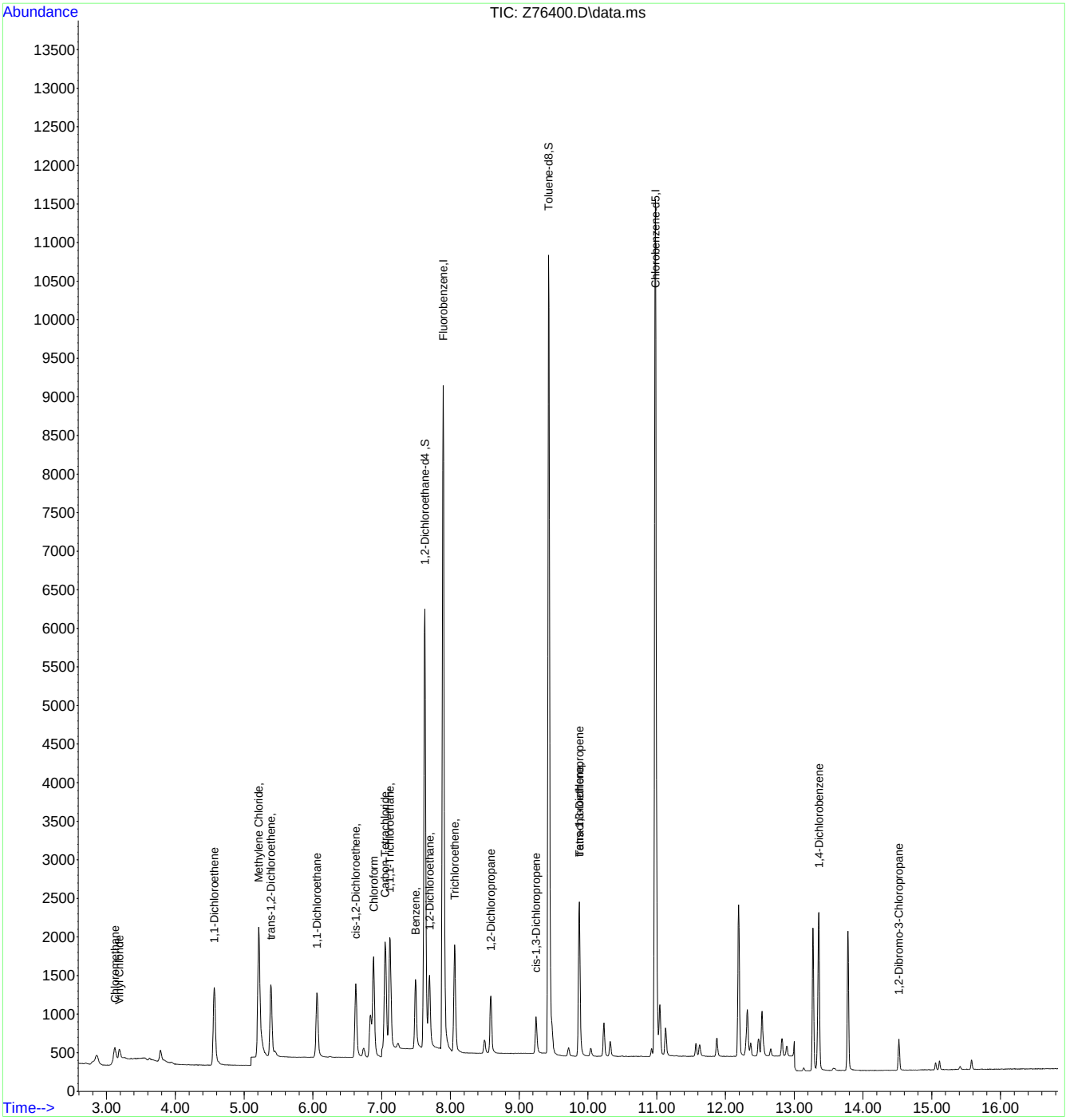
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	10872	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.981	117	11878	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5761	6.53	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 130.60%#			
19) Toluene-d8	9.428	98	11226	4.50	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 90.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.184	62	356	0.69	ug/L	81
3) Chloromethane	3.121	50	557	0.65	ug/L	97
4) 1,1-Dichloroethene	4.566	61	953	0.66	ug/L	94
5) Methylene Chloride	5.213	49	1583	1.06	ug/L	91
6) trans-1,2-Dichloroethene	5.389	61	795	0.59	ug/L	94
7) 1,1-Dichloroethane	6.059	63	1063	0.63	ug/L	98
8) cis-1,2-Dichloroethene	6.625	96	575	0.56	ug/L	92
9) Chloroform	6.883	83	1390m	0.68	ug/L	
10) Carbon Tetrachloride	7.051	117	1157m	0.64	ug/L	
11) 1,1,1-Trichloroethane	7.119	97	1278m	0.66	ug/L	
12) Benzene	7.493	78	1445	0.50	ug/L	97
14) 1,2-Dichloroethane	7.696	62	967	0.64	ug/L	98
15) Trichloroethene	8.061	95	540	0.57	ug/L	98
16) 1,2-Dichloropropane	8.588	63	383	0.50	ug/L	93
17) cis-1,3-Dichloropropene	9.246	75	481	0.43	ug/L	93
20) trans-1,3-Dichloropropene	9.874	75	465	0.38	ug/L	94
21) Tetrachloroethene	9.874	166	812	0.56	ug/L #	98
22) 1,4-Dichlorobenzene	13.358	146	1292	0.44	ug/L	94
23) 1,2-Dibromo-3-Chloropr...	14.520	75	180m	0.57	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:34:36 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:41:11 2024 Page: 2

Manual Integration Approval Summary

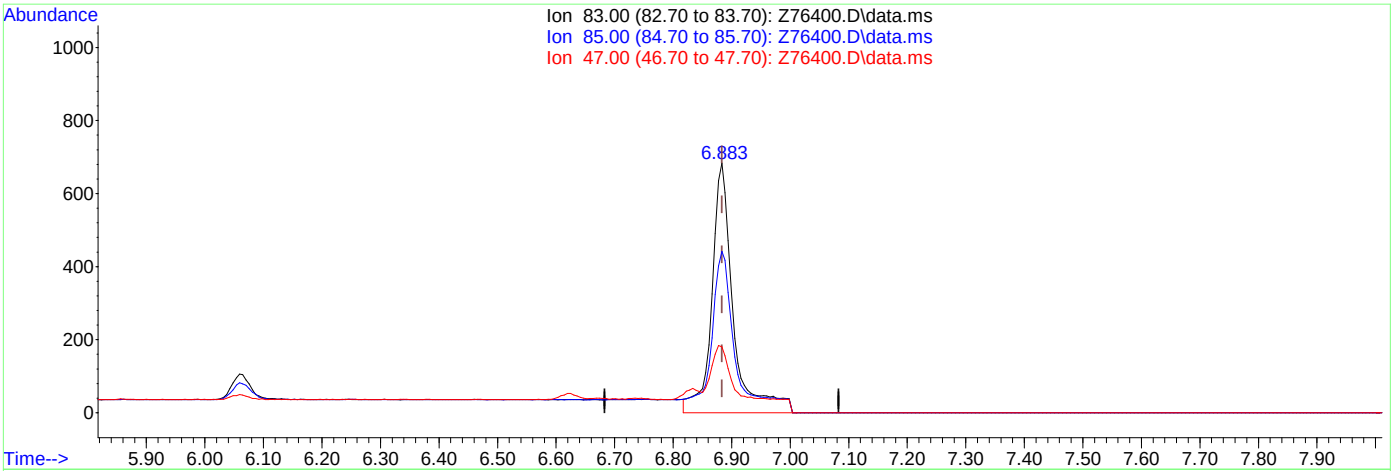
Sample Number: VZ3076-IC3076
Lab FileID: Z76400.D
Injection Time: 08/15/24 10:40
Method: SW846 8260D BY SIM
Analyst approved: 08/15/24 15:53 Claudia Sosa
Supervisor approved: 08/16/24 09:33 Karen Watson

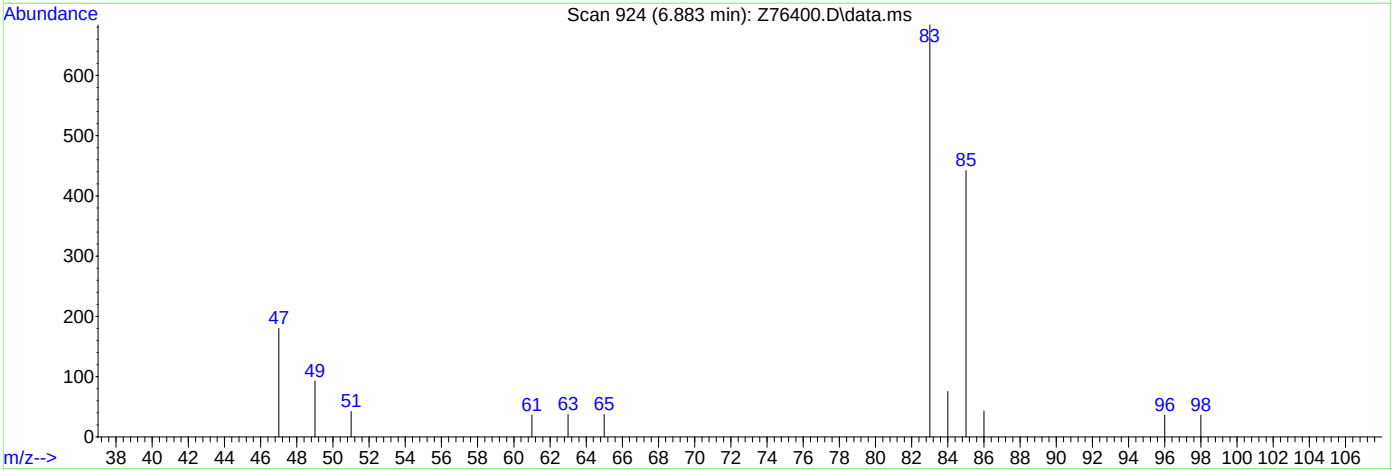
Parameter	CAS	Sig#	R.T. (min.)	Reason
Chloroform	67-66-3		6.88	Poor instrument integration
Carbon Tetrachloride	56-23-5		7.05	Poor instrument integration
1,1,1-Trichloroethane	71-55-6		7.12	Poor instrument integration
1,2-Dibromo-3-chloropropane	96-12-8		14.52	Missed peak

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.85ug/L

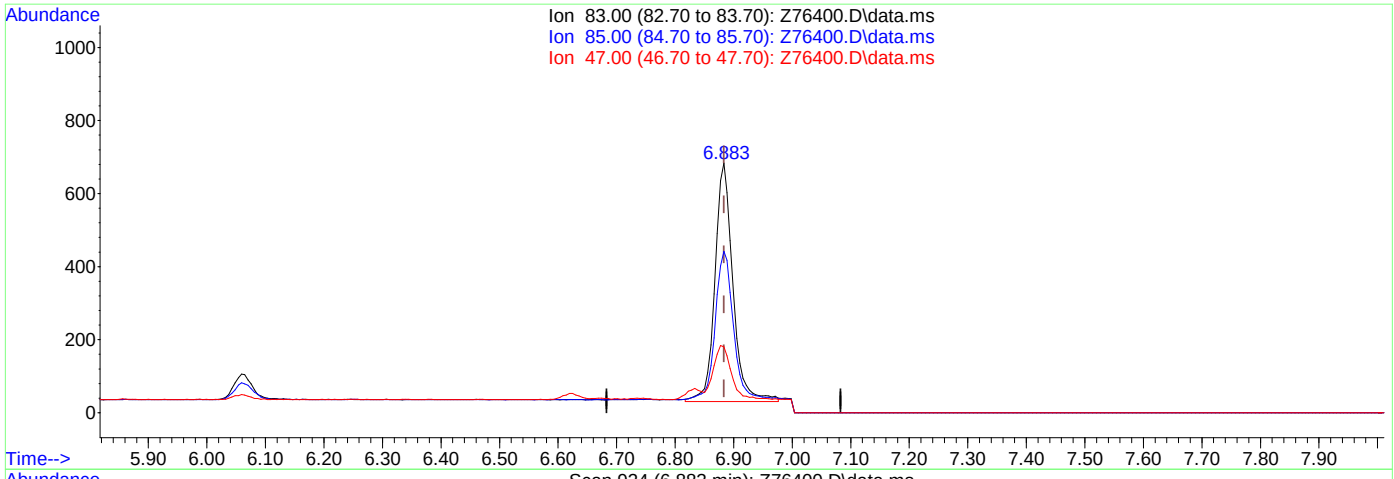
response 1749

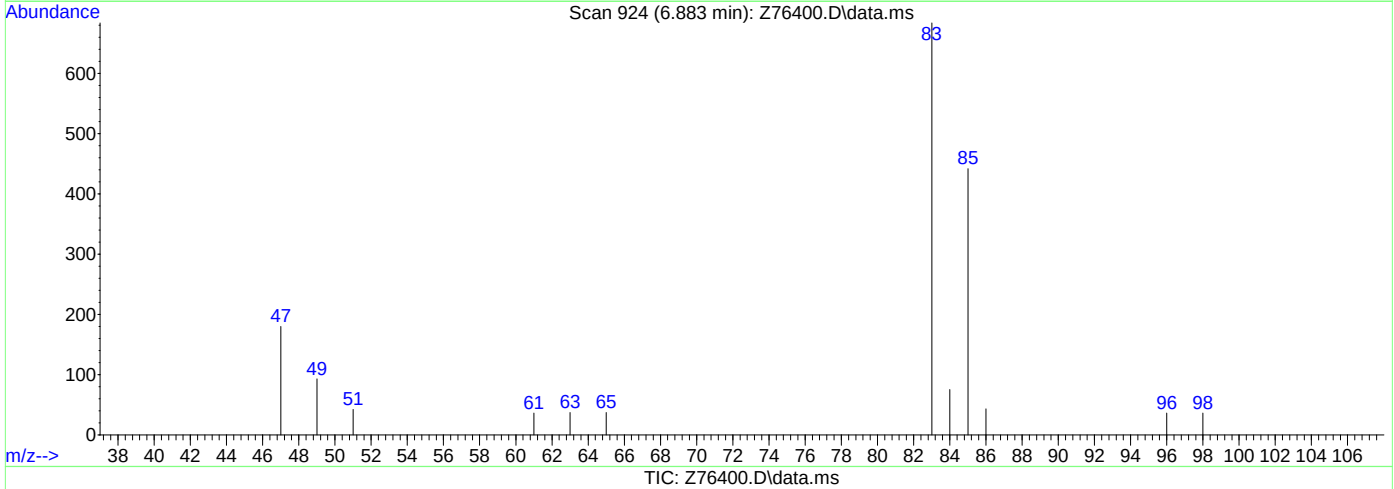
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	64.62
47.00	21.00	26.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(9) Chloroform

6.883min (+0.000) 0.68ug/L m

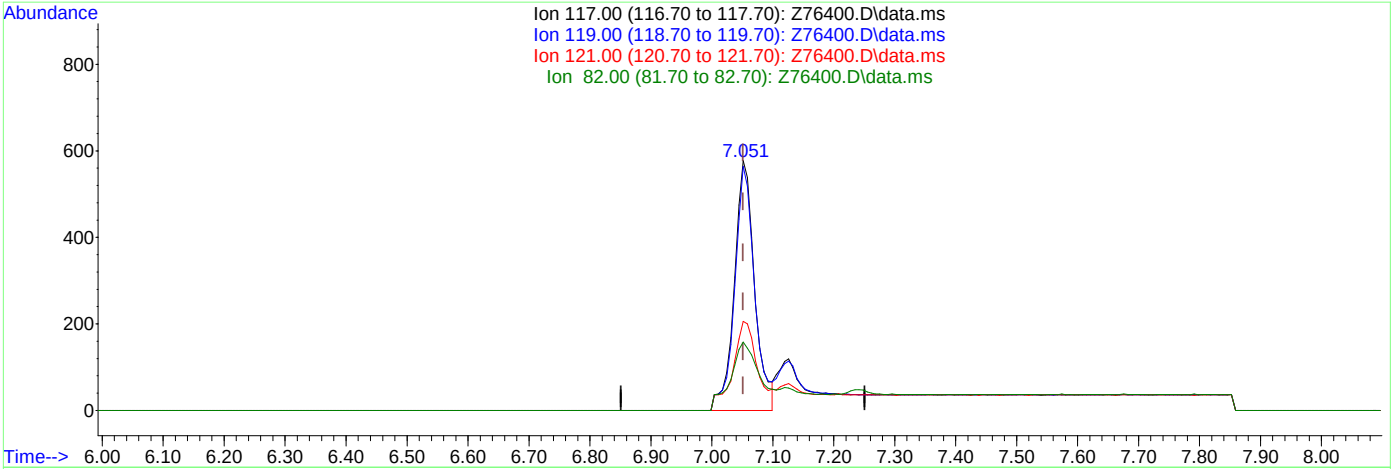
response 1390

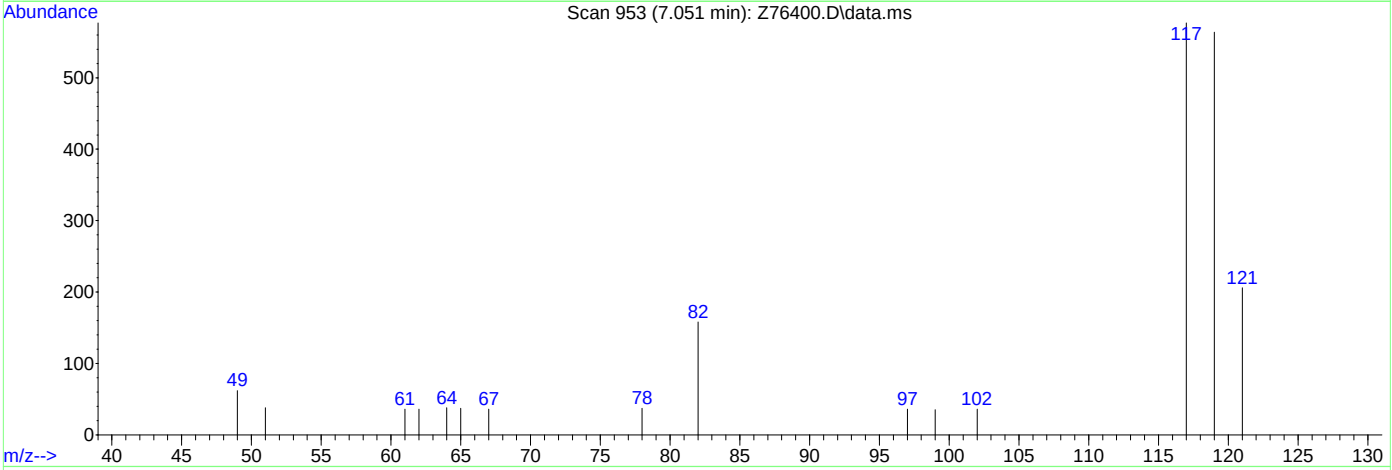
Ion	Exp%	Act%
83.00	100	100
85.00	65.90	64.62
47.00	21.00	26.32
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(10) Carbon Tetrachloride ( )

7.051min (+0.000) 0.72ug/L

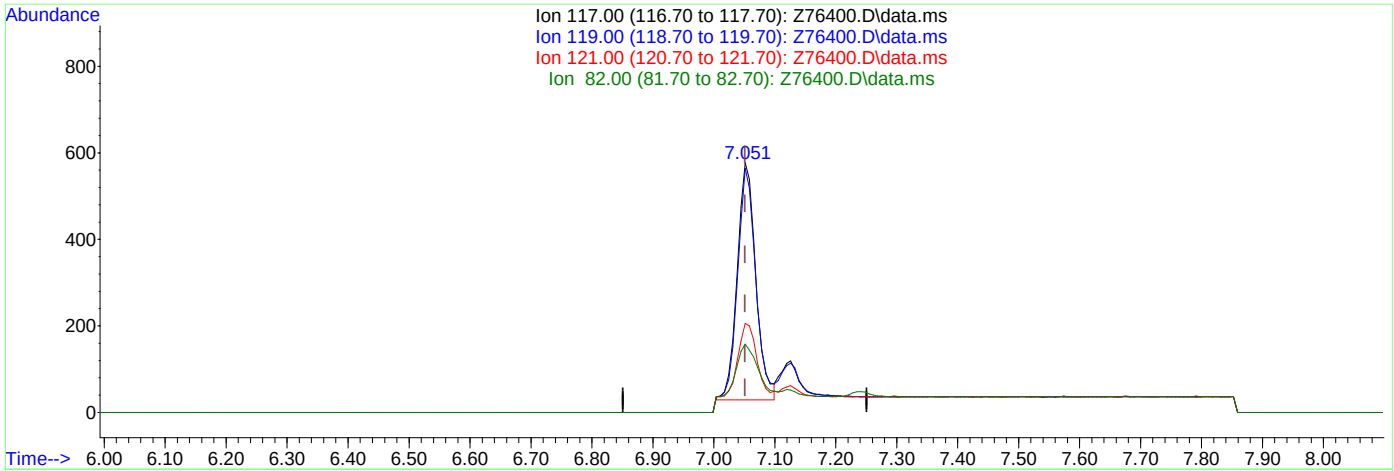
response 1305

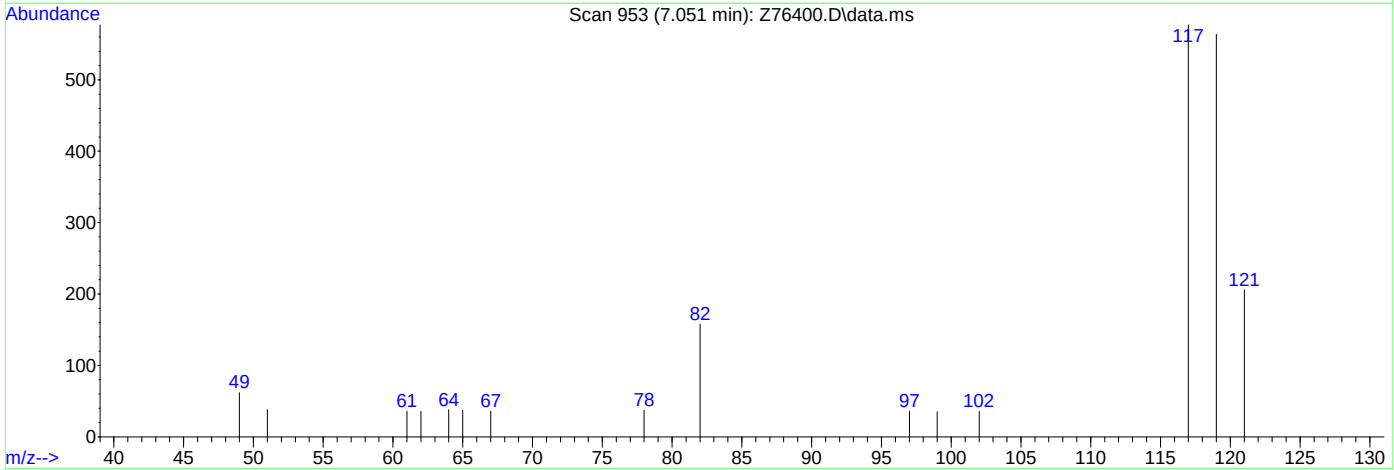
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	97.75
121.00	31.20	35.70
82.00	20.80	27.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(10) Carbon Tetrachloride ( )

7.051min (+0.000) 0.64ug/L m

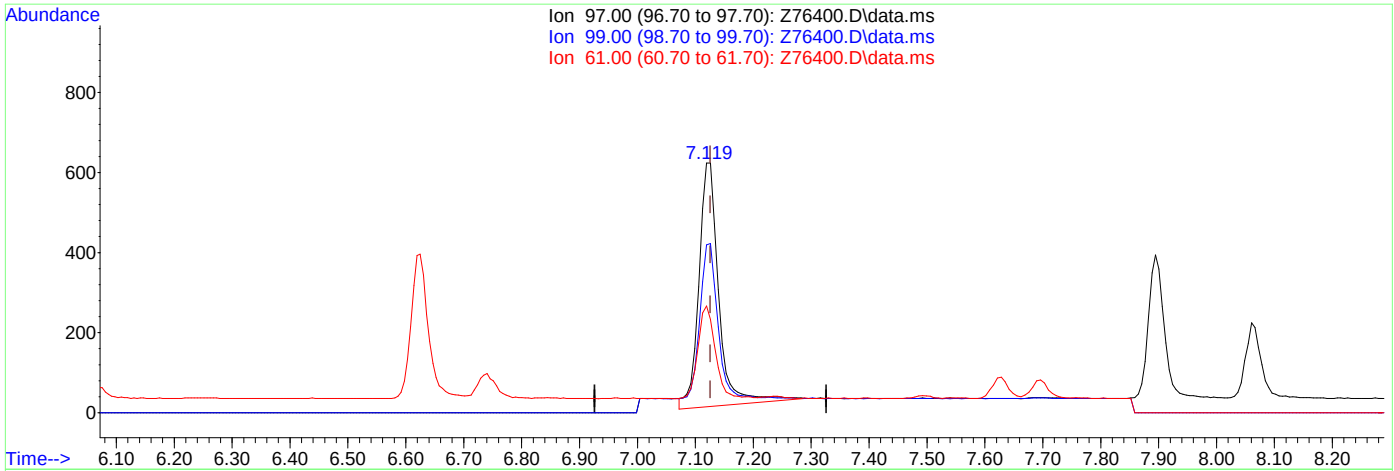
response 1157

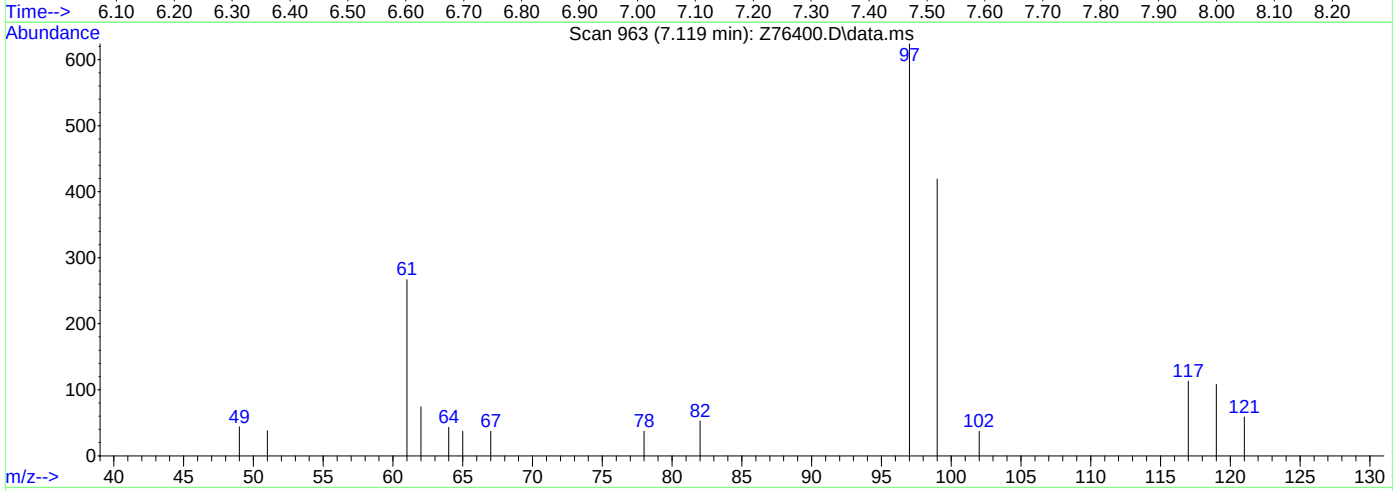
Ion	Exp%	Act%
117.00	100	100
119.00	96.20	97.75
121.00	31.20	35.70
82.00	20.80	27.38

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(11) 1,1,1-Trichloroethane ( )

7.119min (-0.007) 0.75ug/L

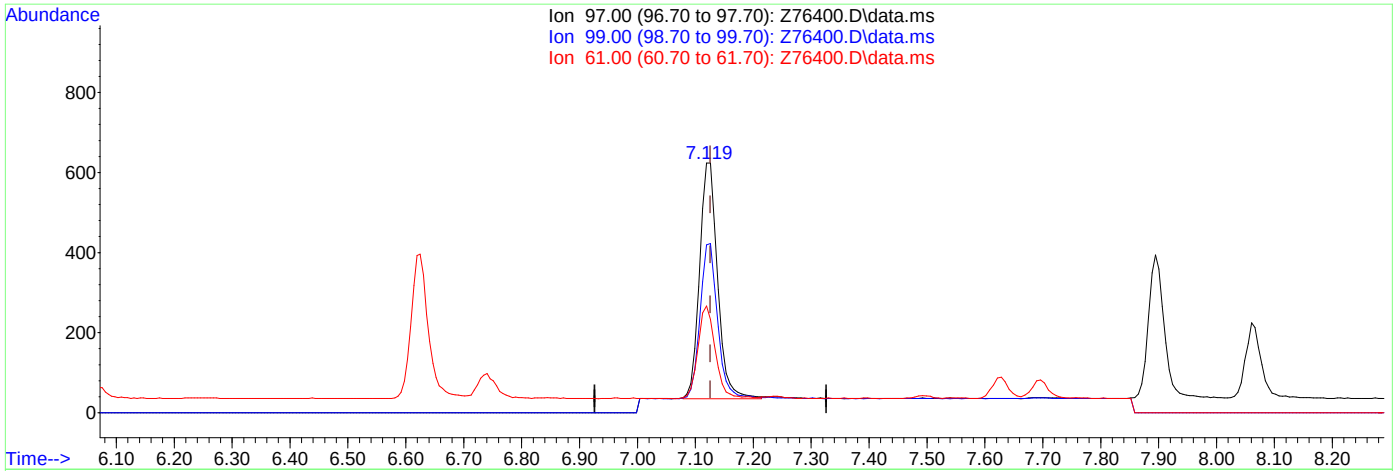
response 1457

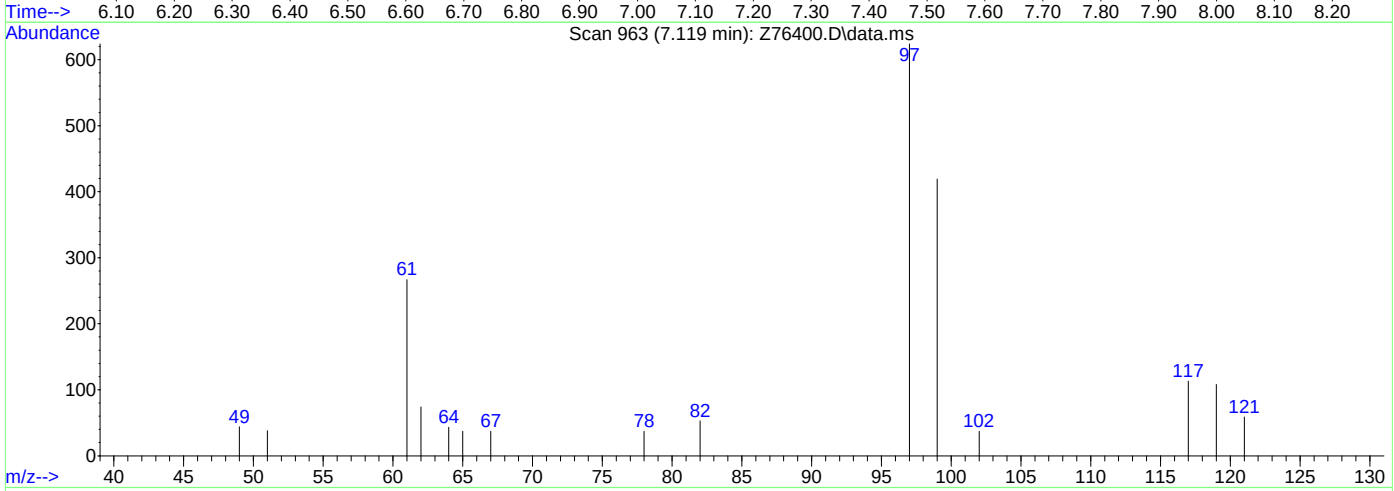
Ion	Exp%	Act%
97.00	100	100
99.00	64.80	65.31
61.00	33.90	39.29
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(11) 1,1,1-Trichloroethane ( )

7.119min (-0.007) 0.66ug/L m

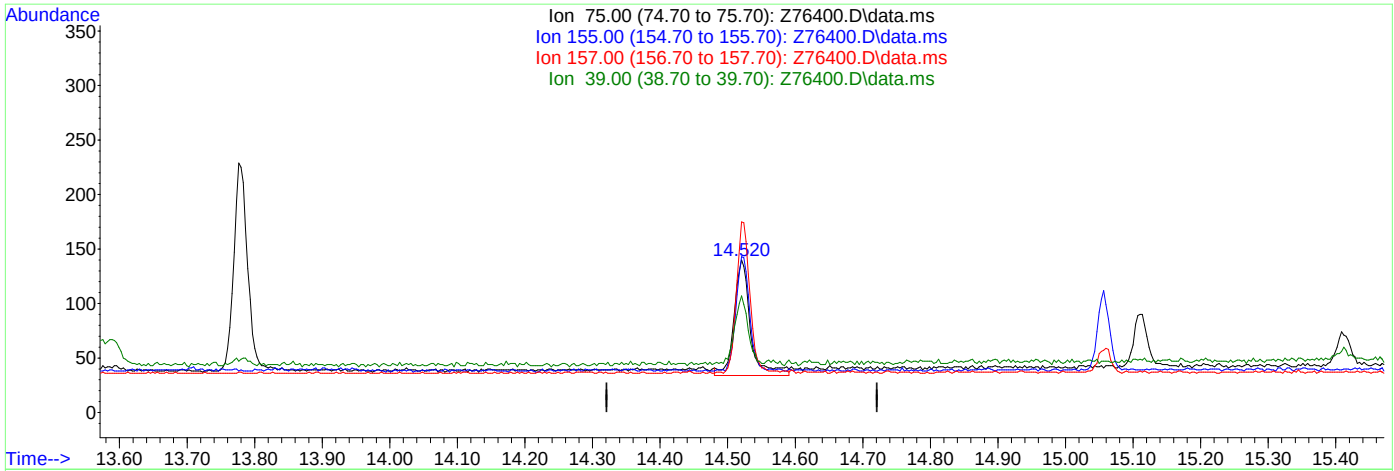
response 1278

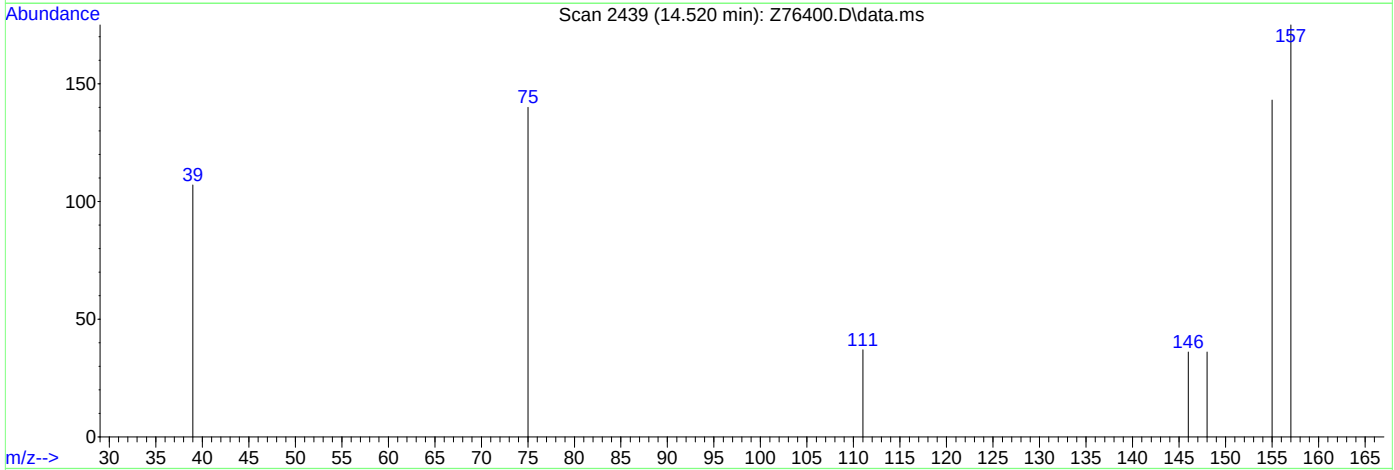
Ion	Exp%	Act%
97.00	100	100
99.00	64.80	67.15
61.00	33.90	42.79
0.00	0.00	0.00

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76400.D
Acq On : 15 Aug 2024 10:40 am
Operator : claudias
Sample : IC3076-2 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Aug 15 11:32:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration





TIC: Z76400.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.520min (-0.001) 0.57ug/L m

response 180

Ion	Exp%	Act%
75.00	100	100
155.00	116.30	102.14
157.00	149.10	125.00
39.00	55.20	76.43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76401.D
Acq On : 15 Aug 2024 11:03 am
Operator : claudias
Sample : IC3076-3 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 11:34:59 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

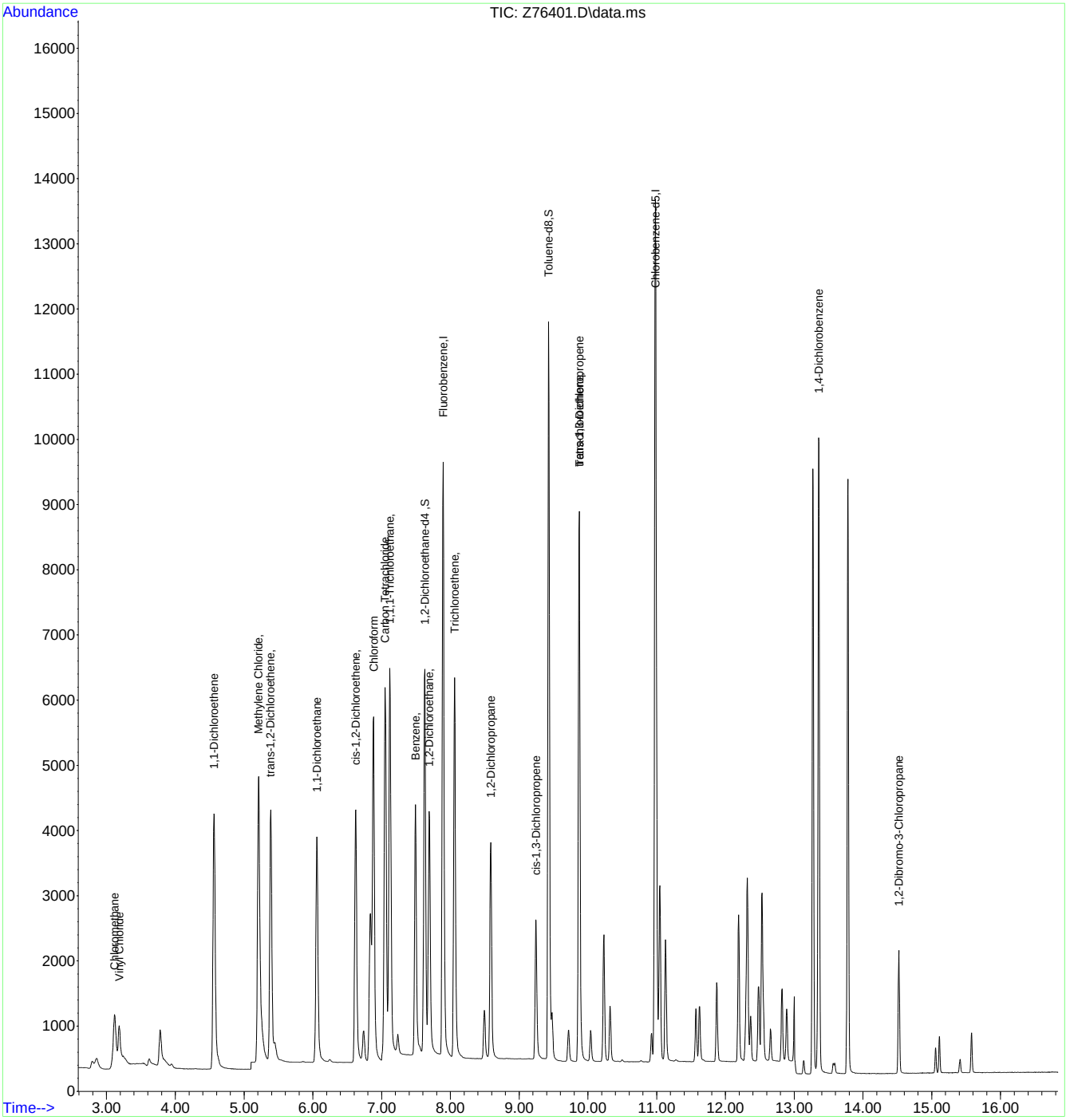
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	11478	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	12874	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6111	6.57	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 131.40%#			
19) Toluene-d8	9.428	98	11790	4.36	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 87.20%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	1292	2.38	ug/L	97
3) Chloromethane	3.116	50	1985	2.20	ug/L	99
4) 1,1-Dichloroethene	4.561	61	3748	2.46	ug/L	94
5) Methylene Chloride	5.208	49	4213	2.72	ug/L	90
6) trans-1,2-Dichloroethene	5.383	61	3296	2.31	ug/L	92
7) 1,1-Dichloroethane	6.059	63	4338	2.43	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	2362	2.17	ug/L	96
9) Chloroform	6.883	83	5845	2.69	ug/L	98
10) Carbon Tetrachloride	7.051	117	4688	2.46	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	5378	2.61	ug/L	97
12) Benzene	7.492	78	5955	1.96	ug/L	96
14) 1,2-Dichloroethane	7.689	62	4124	2.59	ug/L	100
15) Trichloroethene	8.060	95	2133	2.12	ug/L	98
16) 1,2-Dichloropropane	8.588	63	1649	2.04	ug/L	93
17) cis-1,3-Dichloropropene	9.246	75	2134	1.82	ug/L	96
20) trans-1,3-Dichloropropene	9.874	75	2148	1.60	ug/L	95
21) Tetrachloroethene	9.874	166	3162	2.02	ug/L #	98
22) 1,4-Dichlorobenzene	13.354	146	6319	2.00	ug/L	96
23) 1,2-Dibromo-3-Chloropr...	14.520	75	661	1.92	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76401.D
Acq On : 15 Aug 2024 11:03 am
Operator : claudias
Sample : IC3076-3 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Aug 15 11:34:59 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:43:30 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76402.D
Acq On : 15 Aug 2024 11:26 am
Operator : claudias
Sample : IC3076-4 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 11:43:44 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

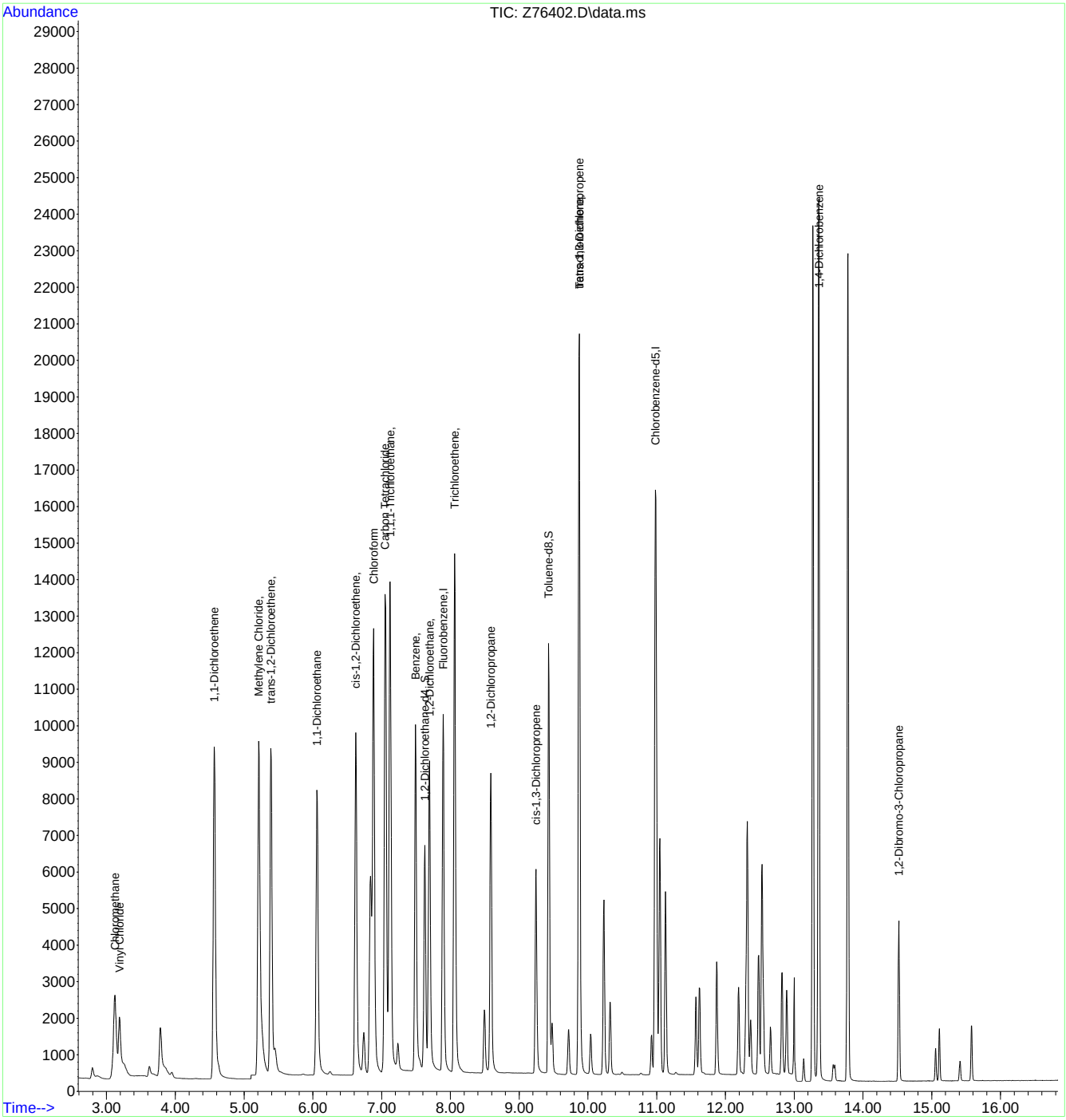
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	12218	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	13549	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	5906	5.96	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 119.20%			
19) Toluene-d8	9.428	98	12164	4.28	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 85.60%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	3442	6.01	ug/L	100
3) Chloromethane	3.120	50	5323	5.67	ug/L	99
4) 1,1-Dichloroethene	4.566	61	8567	5.29	ug/L	94
5) Methylene Chloride	5.213	49	8635	5.40	ug/L	92
6) trans-1,2-Dichloroethene	5.389	61	7619	5.02	ug/L	95
7) 1,1-Dichloroethane	6.059	63	9781	5.15	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	5578	4.81	ug/L	93
9) Chloroform	6.883	83	12787	5.53	ug/L	98
10) Carbon Tetrachloride	7.051	117	10651	5.25	ug/L	99
11) 1,1,1-Trichloroethane	7.126	97	12196	5.56	ug/L	99
12) Benzene	7.493	78	14437	4.46	ug/L	95
14) 1,2-Dichloroethane	7.696	62	9394	5.54	ug/L	99
15) Trichloroethene	8.061	95	5184	4.84	ug/L	98
16) 1,2-Dichloropropane	8.588	63	3960	4.60	ug/L	94
17) cis-1,3-Dichloropropene	9.246	75	5271	4.22	ug/L	95
20) trans-1,3-Dichloropropene	9.874	75	5470	3.77	ug/L	97
21) Tetrachloroethene	9.874	166	7181	4.37	ug/L #	99
22) 1,4-Dichlorobenzene	13.358	146	15420	4.64	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.520	75	1481	4.09	ug/L	90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76402.D
Acq On : 15 Aug 2024 11:26 am
Operator : claudias
Sample : IC3076-4 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Aug 15 11:43:44 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76403.D
Acq On : 15 Aug 2024 11:49 am
Operator : claudias
Sample : ICC3076-5 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 12:06:17 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

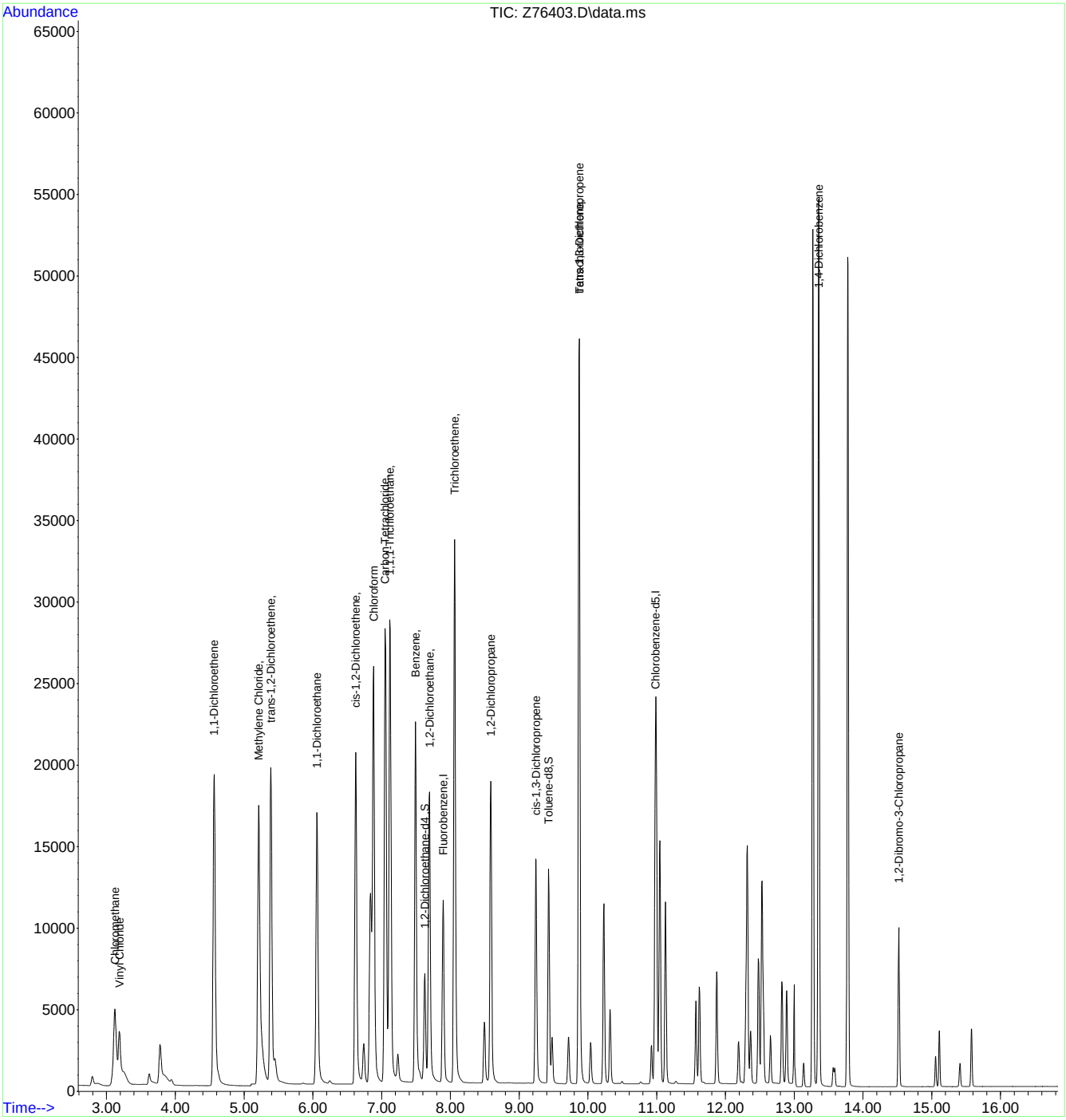
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	13822	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	14697	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6287	5.61	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 112.20%			
19) Toluene-d8	9.428	98	13303	4.31	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 86.20%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	7167	11.22	ug/L	99
3) Chloromethane	3.120	50	10931	10.63	ug/L	100
4) 1,1-Dichloroethene	4.561	61	17844	9.73	ug/L	94
5) Methylene Chloride	5.213	49	16596	9.65	ug/L	95
6) trans-1,2-Dichloroethene	5.389	61	16277	9.49	ug/L	97
7) 1,1-Dichloroethane	6.059	63	20582	9.59	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	12090	9.22	ug/L	96
9) Chloroform	6.883	83	26249	10.04	ug/L	99
10) Carbon Tetrachloride	7.051	117	22267	9.70	ug/L	100
11) 1,1,1-Trichloroethane	7.119	97	25213	10.17	ug/L	97
12) Benzene	7.492	78	33133	9.06	ug/L	97
14) 1,2-Dichloroethane	7.696	62	19758	10.31	ug/L	100
15) Trichloroethene	8.061	95	11937	9.86	ug/L	99
16) 1,2-Dichloropropane	8.588	63	9150	9.40	ug/L	95
17) cis-1,3-Dichloropropene	9.246	75	12919	9.15	ug/L	98
20) trans-1,3-Dichloropropene	9.874	75	13247	8.00	ug/L	98
21) Tetrachloroethene	9.874	166	15348	8.60	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	34189	9.48	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.520	75	3161	8.05	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76403.D
Acq On : 15 Aug 2024 11:49 am
Operator : claudias
Sample : ICC3076-5 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Aug 15 12:06:17 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:43:34 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76404.D
Acq On : 15 Aug 2024 12:12 pm
Operator : claudias
Sample : IC3076-6 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 12:32:14 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

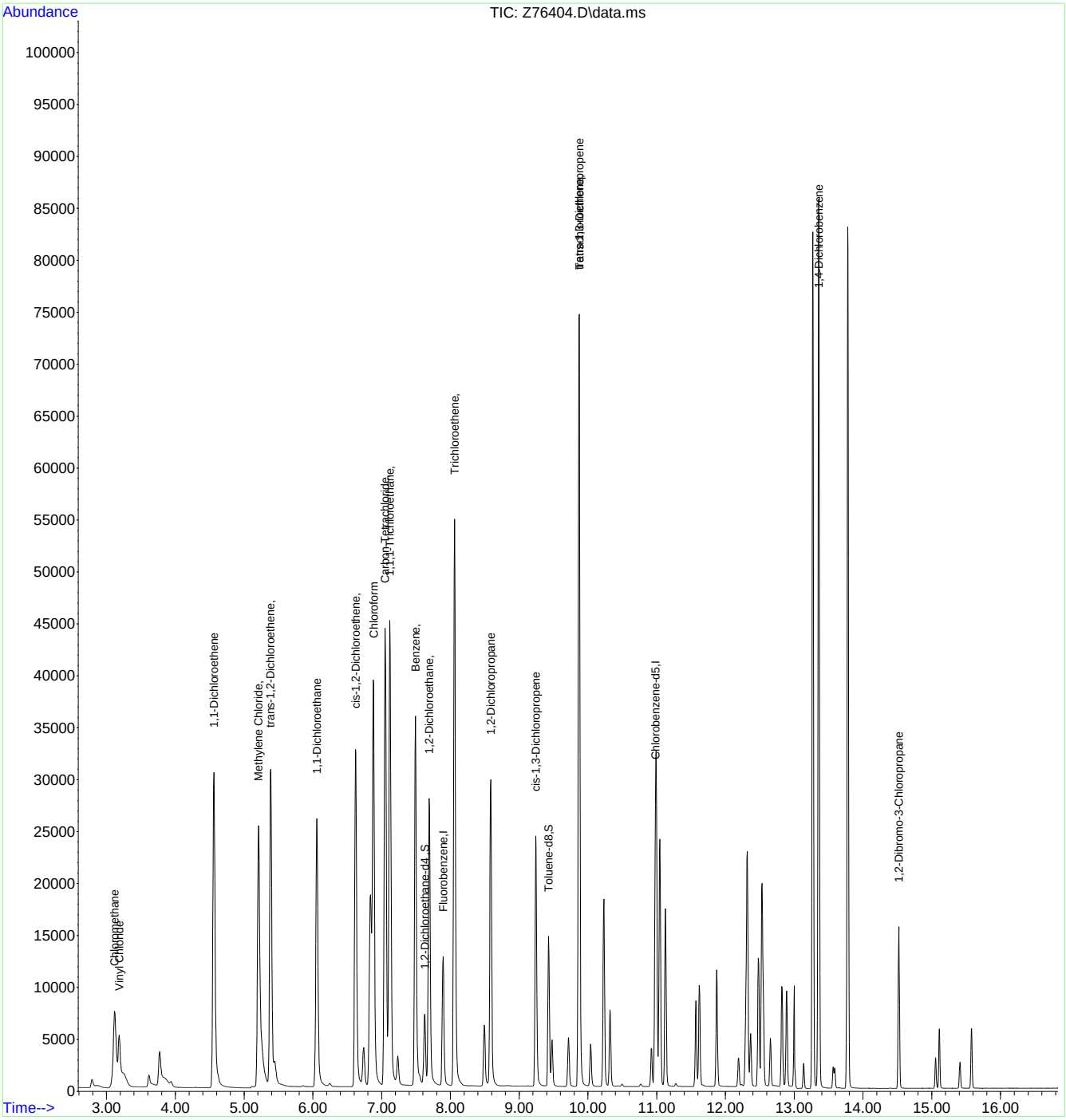
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	15383	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	15625	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6515	5.22	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 104.40%			
19) Toluene-d8	9.428	98	14496	4.42	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 88.40%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	11396	16.26	ug/L	98
3) Chloromethane	3.116	50	17105	15.43	ug/L	99
4) 1,1-Dichloroethene	4.561	61	27908	13.68	ug/L	97
5) Methylene Chloride	5.208	49	25060	13.81	ug/L	93
6) trans-1,2-Dichloroethene	5.383	61	25662	13.44	ug/L	94
7) 1,1-Dichloroethane	6.059	63	32253	13.50	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	19394	13.29	ug/L	98
9) Chloroform	6.883	83	40558	13.94	ug/L	99
10) Carbon Tetrachloride	7.051	117	34240	13.40	ug/L	100
11) 1,1,1-Trichloroethane	7.119	97	39085	14.16	ug/L	98
12) Benzene	7.492	78	54229	13.32	ug/L	99
14) 1,2-Dichloroethane	7.689	62	30303	14.21	ug/L	98
15) Trichloroethene	8.060	95	19531	14.49	ug/L	97
16) 1,2-Dichloropropane	8.588	63	14909	13.77	ug/L	97
17) cis-1,3-Dichloropropene	9.240	75	21955	13.98	ug/L	92
20) trans-1,3-Dichloropropene	9.874	75	22555	12.21	ug/L	98
21) Tetrachloroethene	9.874	166	24379	12.85	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	53709	14.00	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.520	75	5012	12.01	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76404.D
Acq On : 15 Aug 2024 12:12 pm
Operator : claudias
Sample : IC3076-6 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Aug 15 12:32:14 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:46:00 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76405.D
Acq On : 15 Aug 2024 12:35 pm
Operator : claudias
Sample : IC3076-7 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 12:52:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration

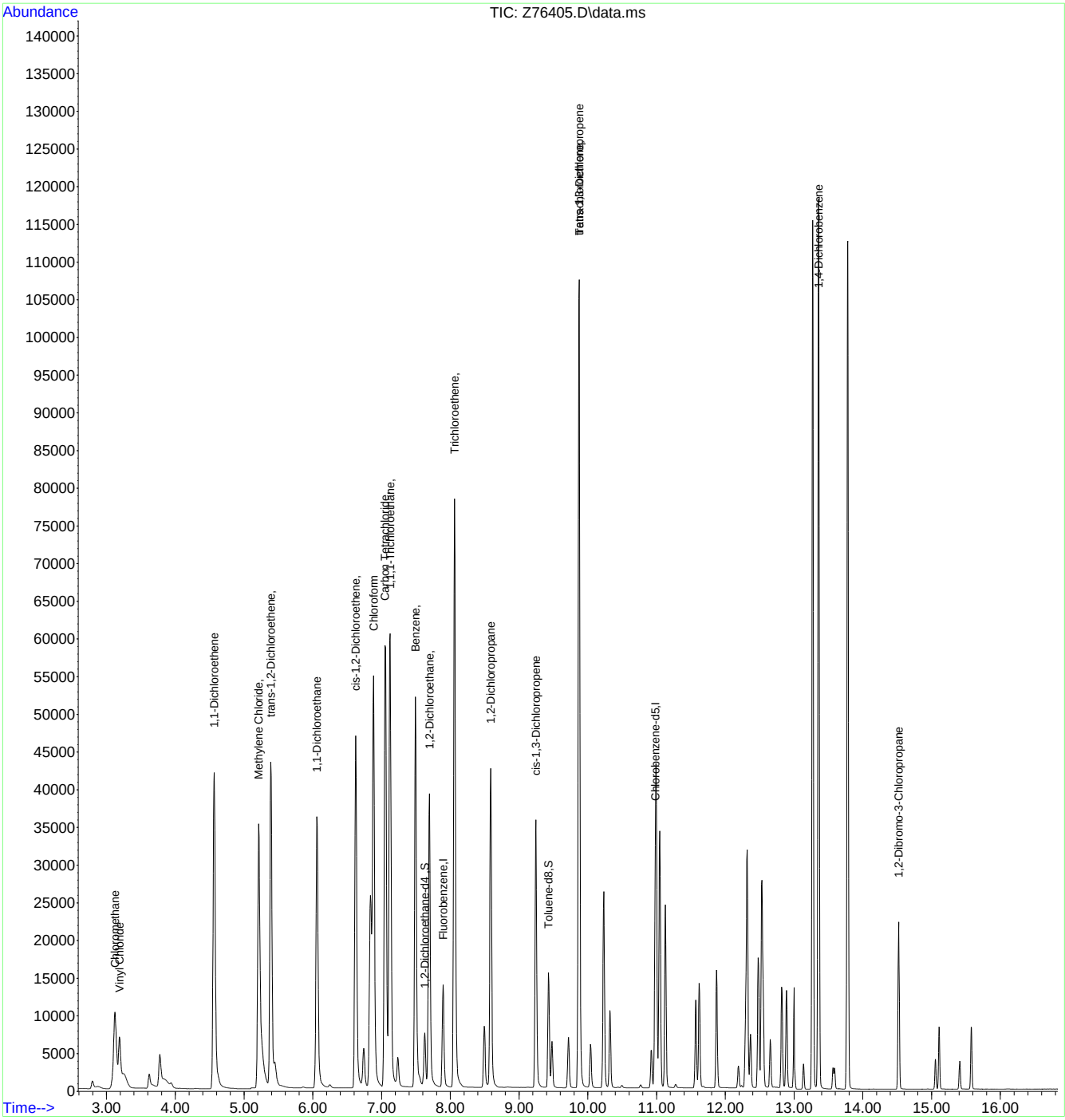
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	16562	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.980	117	16232	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6550	4.88	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 97.60%			
19) Toluene-d8	9.428	98	15323	4.50	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 90.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	15727	21.12	ug/L	97
3) Chloromethane	3.120	50	23657	20.53	ug/L	100
4) 1,1-Dichloroethene	4.566	61	38514	17.53	ug/L	97
5) Methylene Chloride	5.213	49	34202	18.71	ug/L	96
6) trans-1,2-Dichloroethene	5.389	61	35796	17.41	ug/L	97
7) 1,1-Dichloroethane	6.059	63	44929	17.47	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	27549	17.54	ug/L	96
9) Chloroform	6.883	83	55757	17.80	ug/L	99
10) Carbon Tetrachloride	7.051	117	47307	17.20	ug/L	100
11) 1,1,1-Trichloroethane	7.126	97	53593	18.04	ug/L	100
12) Benzene	7.493	78	78196	17.84	ug/L	98
14) 1,2-Dichloroethane	7.696	62	41723	18.17	ug/L	100
15) Trichloroethene	8.061	95	27962	19.27	ug/L	99
16) 1,2-Dichloropropane	8.588	63	21400	18.35	ug/L	98
17) cis-1,3-Dichloropropene	9.246	75	32541	19.24	ug/L	98
20) trans-1,3-Dichloropropene	9.874	75	33288	16.54	ug/L	98
21) Tetrachloroethene	9.874	166	34024	17.26	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	74435	18.68	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.520	75	7046	16.25	ug/L	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76405.D
Acq On : 15 Aug 2024 12:35 pm
Operator : claudias
Sample : IC3076-7 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Aug 15 12:52:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-01-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 01 16:10:41 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:46:02 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76407.D
Acq On : 15 Aug 2024 1:24 pm
Operator : claudias
Sample : ICV3076-5 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 13:58:06 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

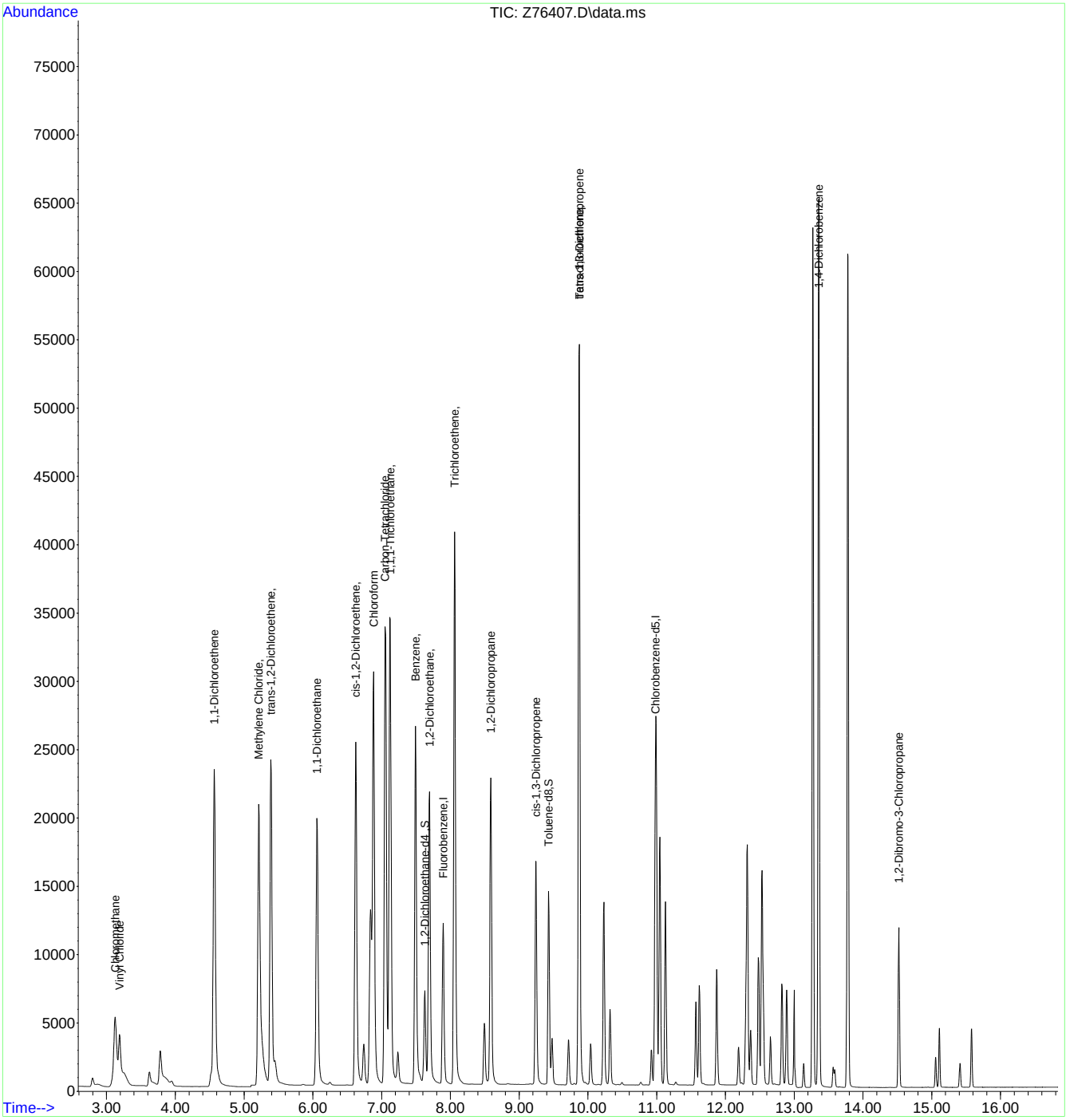
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	14443	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.981	117	15431	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	6267	4.55	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 91.00%			
19) Toluene-d8	9.428	98	14205	4.97	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 99.40%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	8296	11.13	ug/L	98
3) Chloromethane	3.125	50	12330	10.85	ug/L	100
4) 1,1-Dichloroethene	4.566	61	21351	11.58	ug/L	96
5) Methylene Chloride	5.213	49	20010	11.59	ug/L	95
6) trans-1,2-Dichloroethene	5.389	61	19827	11.83	ug/L	97
7) 1,1-Dichloroethane	6.059	63	24304	11.41	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	14873	11.88	ug/L	96
9) Chloroform	6.883	83	31033	11.43	ug/L	99
10) Carbon Tetrachloride	7.051	117	27360	11.76	ug/L	99
11) 1,1,1-Trichloroethane	7.126	97	30488	11.76	ug/L	100
12) Benzene	7.493	78	40073	11.65	ug/L	98
14) 1,2-Dichloroethane	7.696	62	23465	11.62	ug/L	99
15) Trichloroethene	8.061	95	14614	11.83	ug/L	99
16) 1,2-Dichloropropane	8.588	63	11250	11.91	ug/L	97
17) cis-1,3-Dichloropropene	9.246	75	15548	11.18	ug/L	97
20) trans-1,3-Dichloropropene	9.874	75	14679	10.53	ug/L	98
21) Tetrachloroethene	9.874	166	18974	11.75	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	41257	11.64	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.521	75	3838	11.51	ug/L	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081524\
Data File : Z76407.D
Acq On : 15 Aug 2024 1:24 pm
Operator : claudias
Sample : ICV3076-5 Inst : MSVOA15-Z
Misc : MS57228,VZ3076,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Aug 15 13:58:06 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



SIMCL-08-15-2024.M Thu Aug 15 15:48:37 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76456.D
Acq On : 19 Aug 2024 8:00 am
Operator : claudias
Sample : cc3076-5 Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 08:19:12 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

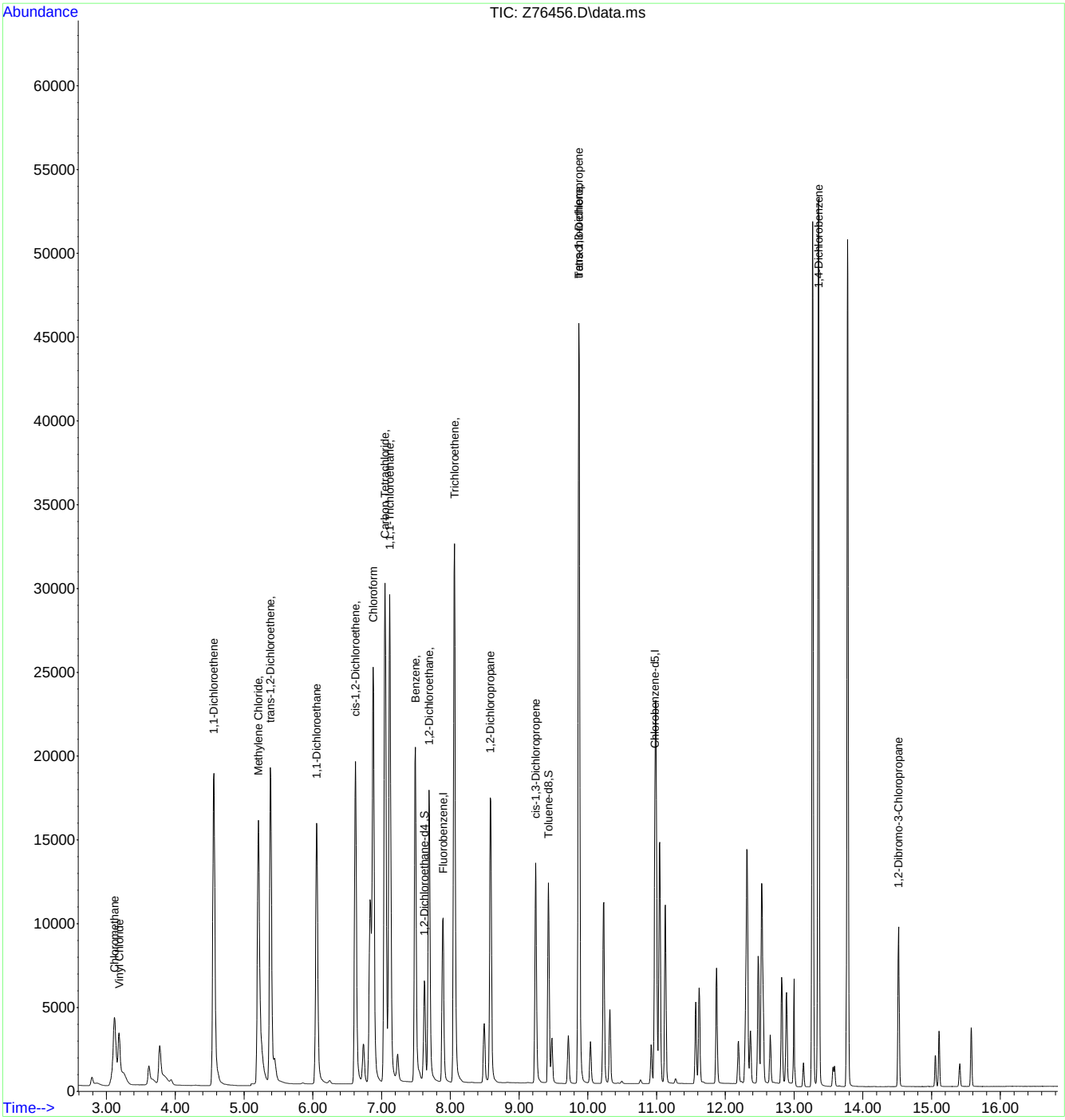
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	12472	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	14272	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	5776	4.85	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 97.00%			
19) Toluene-d8	9.428	98	12147	4.60	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 92.00%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	6722	10.37	ug/L	99
3) Chloromethane	3.116	50	9926	10.03	ug/L	99
4) 1,1-Dichloroethene	4.557	61	17292	10.76	ug/L	94
5) Methylene Chloride	5.208	49	15022	9.76	ug/L	95
6) trans-1,2-Dichloroethene	5.384	61	15794	10.81	ug/L	96
7) 1,1-Dichloroethane	6.054	63	19647	10.59	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	11490	10.55	ug/L	93
9) Chloroform	6.877	83	25787	10.93	ug/L	98
10) Carbon Tetrachloride	7.051	117	23514	11.69	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	25247	11.19	ug/L	98
12) Benzene	7.492	78	30959	10.43	ug/L	99
14) 1,2-Dichloroethane	7.689	62	18913	10.72	ug/L	99
15) Trichloroethene	8.061	95	11605	10.86	ug/L	96
16) 1,2-Dichloropropane	8.582	63	8467	10.35	ug/L	94
17) cis-1,3-Dichloropropene	9.240	75	12028	10.02	ug/L	92
20) trans-1,3-Dichloropropene	9.869	75	12757	9.97	ug/L	97
21) Tetrachloroethene	9.869	166	15167	10.15	ug/L #	96
22) 1,4-Dichlorobenzene	13.354	146	33774	10.30	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.517	75	3142	10.19	ug/L	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76456.D
Acq On : 19 Aug 2024 8:00 am
Operator : claudias
Sample : cc3076-5 Inst : MSVOA15-Z
Misc : MS57289,VZ3078,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Aug 19 08:19:12 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76482.D
Acq On : 19 Aug 2024 6:46 pm
Operator : claudias
Sample : ECC3076-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 20 06:47:36 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration

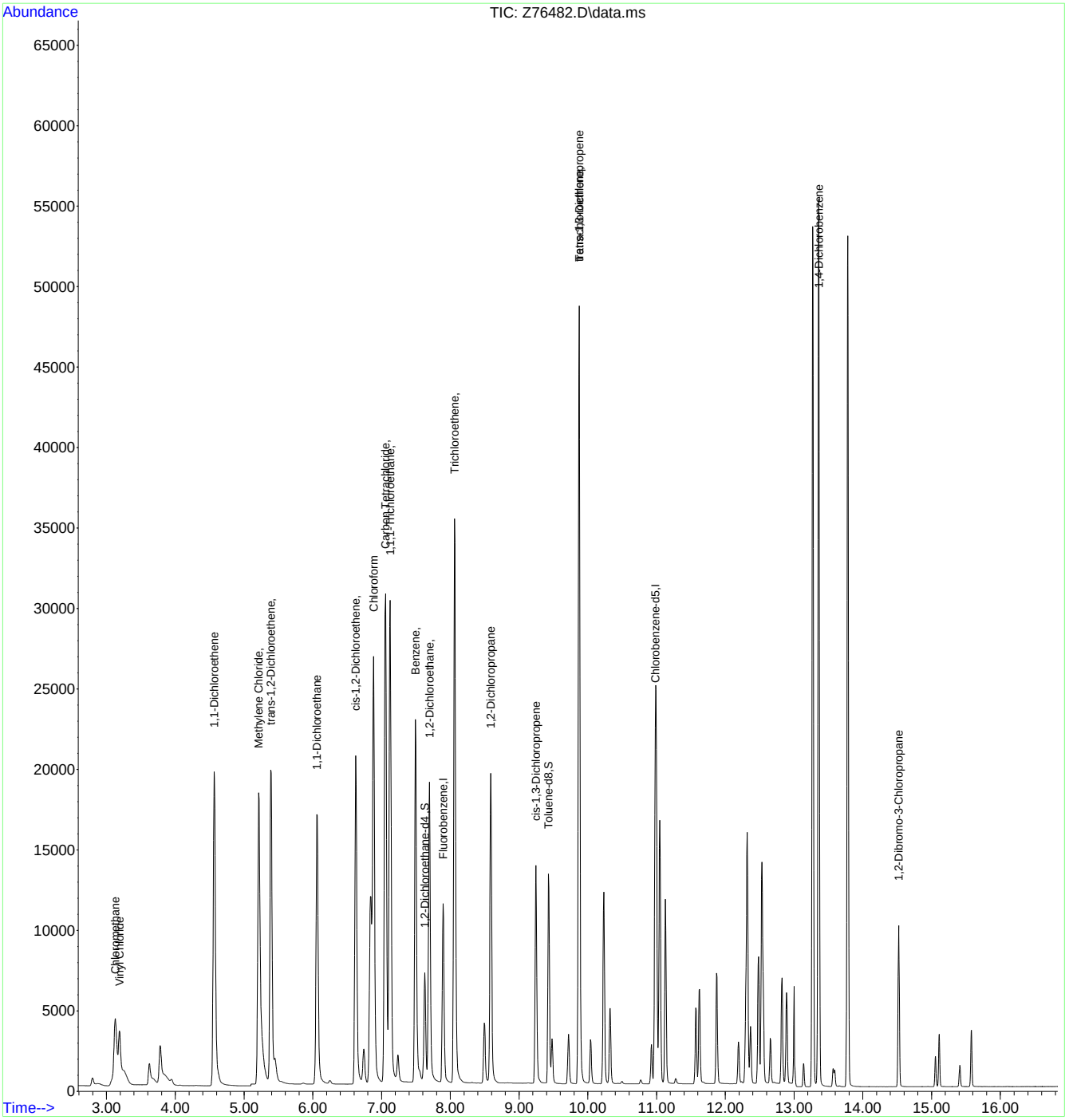
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) Fluorobenzene	7.894	96	13759	5.00	ug/L		0.00
18) Chlorobenzene-d5	10.980	117	16066	5.00	ug/L		0.00
System Monitoring Compounds							
13) 1,2-Dichloroethane-d4	7.628	65	6253	4.76	ug/L		0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 95.20%				
19) Toluene-d8	9.428	98	13207	4.44	ug/L		0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 88.80%				
Target Compounds							Qvalue
2) Vinyl Chloride	3.188	62	7533	10.55	ug/L		99
3) Chloromethane	3.129	50	10414	9.49	ug/L		99
4) 1,1-Dichloroethene	4.566	61	17974	10.06	ug/L		96
5) Methylene Chloride	5.213	49	17711	10.58	ug/L		95
6) trans-1,2-Dichloroethene	5.389	61	16498	10.18	ug/L		95
7) 1,1-Dichloroethane	6.059	63	21110	10.29	ug/L		99
8) cis-1,2-Dichloroethene	6.625	96	12033	9.98	ug/L		94
9) Chloroform	6.883	83	27166	10.36	ug/L		98
10) Carbon Tetrachloride	7.058	117	24354	10.82	ug/L		98
11) 1,1,1-Trichloroethane	7.126	97	26172	10.42	ug/L		100
12) Benzene	7.492	78	34622	10.57	ug/L		97
14) 1,2-Dichloroethane	7.696	62	19857	10.13	ug/L		99
15) Trichloroethene	8.060	95	12785	10.85	ug/L		99
16) 1,2-Dichloropropane	8.588	63	9542	10.58	ug/L		97
17) cis-1,3-Dichloropropene	9.246	75	12676	9.57	ug/L		98
20) trans-1,3-Dichloropropene	9.874	75	13568	9.49	ug/L		99
21) Tetrachloroethene	9.874	166	15992	9.51	ug/L	#	99
22) 1,4-Dichlorobenzene	13.358	146	35044	9.50	ug/L		99
23) 1,2-Dibromo-3-Chloropr...	14.520	75	3273	9.43	ug/L		91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\081924\
Data File : Z76482.D
Acq On : 19 Aug 2024 6:46 pm
Operator : claudias
Sample : ECC3076-5 Inst : MSVOA15-Z
Misc : MS57301,VZ3078,,,,,
ALS Vial : 29 Sample Multiplier: 1

Quant Time: Aug 20 06:47:36 2024
Quant Method : C:\msdchem\1\methods\SIMCL-08-15-2024.M
Quant Title : Standard Methods 6200B
QLast Update : Thu Aug 15 13:48:20 2024
Response via : Initial Calibration



SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA15-Z
Date:	08/15/2024
Analyst:	claudias
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	
Purge Volume	5ml

Method(s):	8260SIMCL
Method File:	SIMCL-08-01-2024.M
Calibration Date:	08/01/24
Acq. Method:	ACQ_SIMCLB.M
EM Voltage:	1452
Run ID:	**VZ3076**

BFB:	VS4150
ICAL/CC:	, VS4168, VS4175
ICV/BS:	, VS4167, Vs4176
ISTD/Surr.:	VS4083

pH Paper Lot#:	230320A
KI Paper Lot#:	n/a
AFA Lot#:	n/a
Data processed by:	claudias
Sample ID Ver. by:	claudias
Date Verified:	8/15/2024 0:00

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)
Z76397	BFB	-	-	W	1	-	-	-	-	10.5 µl- 40 ml; passed
Z76398	rinse	-	-	W	2	-	-	-	-	
Z76399	ic3076-1	-	-	W	3	-	-	-	-	1µl- 100 ml #23(MP); #9,#10,#11(PII)
Z76400	ic3076-2	-	-	W	4	-	-	-	-	5µl- 100 ml #23(MP), #9(PII)
Z76401	ic3076-3	-	-	W	5	-	-	-	-	10µl- 50 ml
Z76402	ic3076-4	-	-	W	6	-	-	-	-	25µl- 50 ml
Z76403	icc3076-5	-	-	W	7	-	-	-	-	50µl- 50 ml
Z76404	ic3076-6	-	-	W	8	-	-	-	-	75µl- 50 ml
Z76405	ic3076-7	-	-	W	9	-	-	-	-	100µl- 50 ml
Z76406	rinse	-	-	W	10	-	-	-	-	
Z76407	icv3076-5	-	-	W	11	-	-	-	-	50µl- 50 ml ✓
Z76408	BS	-	-	W	12	-	-	-	-	25µl- 50 ml ✓
Z76409	RINSE	-	-	W	13	-	-	-	-	
Z76410	MB	-	-	W	14	-	-	-	-	✓
Z76411	FC17922-2	1X	1	W	15	MS57288	1	N	-	✓ #9(PII)
Z76412	FC17922-1	1X	1	W	16	MS57288	1	N	-	✓
Z76413	FC17868-5	1X	2	W	17	MS57288	1	N	-	✓#9(PII)
Z76414	FC17868-1	1X	2	W	18	MS57288	1	N	-	✓
Z76415	FC17868-2	1X	2	W	19	MS57288	1	N	-	✓
Z76416	FC17868-3	1X	2	W	20	MS57288	1	N	-	✓
Z76417	FC17922-3	1X	1	W	21	MS57288	1	N	-	✓#9 ,#10(PII)
Z76418	FC17922-4	1X	1	W	22	MS57288	1	N	-	✓#9 ,#10(PII)
Z76419	FC17922-5	1X	1	W	23	MS57288	1	N	-	✓#9 ,#10(PII)
Z76420	FC17922-6	1X	1	W	24	MS57288	1	N	-	✓#9(PII)
Z76421	FC17922-7	1X	1	W	25	MS57288	1	N	-	✓#9(PII)
Z76422	FC17922-2ms	5X	2	W	26	MS57288	1	N	-	20µl- 40 ml; 10ml-50ml ✓
Z76423	FC17922-2msd	5X	2	W	27	MS57288	1	N	-	20µl- 40 ml 10ml-50ml ✓
Z76424	ECC3076-5	-	-	W	28	-	-	-	-	50µl- 50 ml ✓

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:	MSVOA15-Z
Date:	08/19/2024
Analyst:	claudias
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	
Purge Volume	5ml

Method(s):	8260SIMCL
Method File:	SIMCL-08-15-2024.M
Calibration Date:	08/15/24
Acq. Method:	ACQ_SIMCLB.M
EM Voltage:	1452
Run ID:	**VZ3078**

BFB:	VS4150
ICAL/CC:	, VS4168, VS4175
ICV/BS:	, VS4167, Vs4176
ISTD/Surr.:	VS4083

pH Paper Lot#:	230320A
KI Paper Lot#:	n/a
AFA Lot#:	n/a
Data processed by:	claudias
Sample ID Ver. by:	claudias
Date Verified:	8/19/2024 0:00

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)
Z76454	BFB	-	-	W	1	-	-	-	-	10.5 µl- 40 ml; passed
Z76455	rinse	-	-	W	2	-	-	-	-	
Z76456	cc3076-5			W	3					50µl- 50 ml ✓
Z76457	BS	-	-	W	4	-	-	-	-	25µl- 50 ml ✓
Z76458	RINSE	-	-	W	5	-	-	-	-	
Z76459	MB	-	-	W	6	-	-	-	-	✓
Z76460	FC17980-11	1X	1	W	7	MS57301	1	N	-	✓
Z76461	FC17981-1	1X	1	W	8	MS57301	1	N	-	✓
Z76462	FC17979-17	1X	1	W	9	MS57301	1	N	-	✓,#9(PII)
Z76463	FC17979-18	1X	1	W	10	MS57301	1	N	-	✓,#9(PII)
Z76464	FC17979-19	1X	1	W	11	MS57301	1	N	-	✓,#9(PII)
Z76465	FC17979-20	1X	1	W	12	MS57301	1	N	-	✓,#9(PII)
Z76466	FC17979-21	1X	1	W	13	MS57301	1	N	-	✓,#9(PII)
Z76467	FC17980-1	1X	2	W	14	MS57301	1	N	-	✓,#9(PII)
Z76468	FC17980-2	1X	1	W	15	MS57301	1	N	-	✓,#9(PII)
Z76469	FC17980-3	1X	1	W	16	MS57301	1	N	-	✓,#9(PII)
Z76470	FC17980-4	1X	1	W	17	MS57301	1	N	-	✓,#9(PII)
Z76471	FC17980-5	1X	1	W	18	MS57301	1	N	-	✓,#9(PII)
Z76472	FC17980-6	1X	1	W	19	MS57301	1	N	-	✓,#9(PII)
Z76473	FC17980-7	1X	1	W	20	MS57301	1	N	-	✓,#9(PII)
Z76474	FC17980-8	1X	1	W	21	MS57301	1	N	-	✓,#9(PII)
Z76475	FC17980-9	1X	1	W	22	MS57301	1	N	-	✓,#9(PII)
Z76476	FC17980-10	1X	1	W	23	MS57301	1	N	-	✓,#9(PII)
Z76477	FC17981-2	1X	1	W	24	MS57301	1	N	-	✓
Z76478	FC17981-3	1X	1	W	25	MS57301	1	N	1x	rr1x surr 1,2 dichloroethane-d4 high
Z76479	FC17981-4	1X	1	W	26	MS57301	1	N	1x	rr1x surr 1,2 dichloroethane-d4 high
Z76480	FC17979-17MS	5X	2	W	27	MS57301	1	N	-	20µl- 40 ml 10ml-50ml ✓
Z76481	FC17979-17MSD	5X	2	W	28	MS57301	1	N	-	20µl- 40 ml 10ml-50ml ✓
Z76482	ECC3076-5	-	-	W	29	-	-	-	-	50µl- 50 ml ✓

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

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21187.001.01.0000(FFO2024Q4) OU2

SGS Job Number: FC21167

Sampling Date: 12/11/24

Report to:

Ahtna Global, LLC
9699 Blue Larkspur Lane Suite 203
Monterey, CA 93940
dlieberman@ahtna.net; mfisler@ahtna.net;
hdillon@ahtna.net; eschmidt@ahtna.net;
ATTN: Derek Lieberman

Total number of pages in report: 79

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: Elvin Kumar 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

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SGS North America Inc.

Sample Summary

Ahtna Global, LLC

Job No: FC21167

Fort Ord Groundwater Monitoring
Project No: 21187.001.01.0000(FFO2024Q4) OU2

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC21167-1	12/11/24	09:45	MFSB	12/12/24	AQ	Trip Blank Water	2450MOU2029A
FC21167-2	12/11/24	10:24	MFSB	12/12/24	AQ	Ground Water	2450MOU2021F
FC21167-3	12/11/24	10:45	MFSB	12/12/24	AQ	Ground Water	2450MOU2023F
FC21167-4	12/11/24	10:47	MFSB	12/12/24	AQ	Ground Water	2450MOU2024D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Ahtna Global, LLC **Job No:** FC21167

Site: Fort Ord Groundwater Monitoring **Report Date:** 12/17/2024 12:45:36 PM

On 12/12/2024, 3 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 0.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC21167 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 BY SIM

Matrix: AQ **Batch ID:** VZ3122

Sample(s) FC21036-3MS, FC21036-3MSD were used as the QC samples indicated.

Matrix Spike Recovery(s) for 1,1-Dichloroethane, Benzene, Chloroform, cis-1,2-Dichloroethylene, Methylene Chloride, Trichloroethylene are outside control limits. Probable cause is due to matrix interference.

Matrix Spike Duplicate Recovery(s) for Methylene Chloride are outside control limits. Probable cause is due to matrix interference.

FC21167-1 for Methylene Chloride: Associated ECC outside of DOD QSM control limits high, sample is ND.

FC21167-2 for Methylene Chloride: Associated ECC outside of DOD QSM control limits high, sample is ND.

FC21167-3 for Methylene Chloride: Associated ECC outside of DOD QSM control limits high, sample is ND.

FC21167-4 for Methylene Chloride: Associated ECC 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: FC21167
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 12/11/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC21167-1	**2450MOU2029A**					
No hits reported in this sample.						
FC21167-2	**2450MOU2021F**					
Chloroform		0.19 J	0.50	0.25	ug/l	SW846 8260D BY SIM
cis-1,2-Dichloroethylene		0.15 J	0.50	0.25	ug/l	SW846 8260D BY SIM
Trichloroethylene		0.87	0.50	0.25	ug/l	SW846 8260D BY SIM
FC21167-3	**2450MOU2023F**					
Carbon Tetrachloride		3.2	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.35 J	0.50	0.25	ug/l	SW846 8260D BY SIM
FC21167-4	**2450MOU2024D**					
Carbon Tetrachloride		3.3	0.50	0.25	ug/l	SW846 8260D BY SIM
Chloroform		0.37 J	0.50	0.25	ug/l	SW846 8260D BY SIM

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	2450MOU2029A		
Lab Sample ID:	FC21167-1	**Date Sampled:**	12/11/24
Matrix:	AQ - Trip Blank Water	**Date Received:**	12/12/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z77423.D	1	12/16/24 15:25	SS	n/a	n/a	VZ3122
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	0.10	ug/l	
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.25 U	0.50	0.25	0.10	ug/l	
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride [a]	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	105%		74-125%
2037-26-5	Toluene-D8	104%		88-111%

(a) Associated ECC 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:	2450MOU2021F		
Lab Sample ID:	FC21167-2	**Date Sampled:**	12/11/24
Matrix:	AQ - Ground Water	**Date Received:**	12/12/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z77427.D	1	12/16/24 16:56	SS	n/a	n/a	VZ3122
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	0.10	ug/l	
56-23-5	Carbon Tetrachloride	0.25 U	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.19	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.15	0.50	0.25	0.10	ug/l	J
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride [a]	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.87	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	105%		88-111%

(a) Associated ECC 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:	2450MOU2023F		
Lab Sample ID:	FC21167-3	**Date Sampled:**	12/11/24
Matrix:	AQ - Ground Water	**Date Received:**	12/12/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z77428.D	1	12/16/24 17:19	SS	n/a	n/a	VZ3122
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	0.10	ug/l	
56-23-5	Carbon Tetrachloride	3.2	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.35	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride [a]	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	106%		74-125%
2037-26-5	Toluene-D8	105%		88-111%

(a) Associated ECC 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:	2450MOU2024D		
Lab Sample ID:	FC21167-4	**Date Sampled:**	12/11/24
Matrix:	AQ - Ground Water	**Date Received:**	12/12/24
Method:	SW846 8260D BY SIM	**Percent Solids:**	n/a
Project:	Fort Ord Groundwater Monitoring		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Z77429.D	1	12/16/24 17:42	SS	n/a	n/a	VZ3122
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

VOA Special List

CAS No.	Compound	Result	LOQ	LOD	DL	Units	Q
71-43-2	Benzene	0.25 U	0.50	0.25	0.10	ug/l	
56-23-5	Carbon Tetrachloride	3.3	0.50	0.25	0.10	ug/l	
67-66-3	Chloroform	0.37	0.50	0.25	0.10	ug/l	J
75-34-3	1,1-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
107-06-2	1,2-Dichloroethane	0.25 U	0.50	0.25	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
78-87-5	1,2-Dichloropropane	0.25 U	0.50	0.25	0.10	ug/l	
75-09-2	Methylene Chloride [a]	0.50 U	2.0	0.50	0.50	ug/l	
127-18-4	Tetrachloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
79-01-6	Trichloroethylene	0.25 U	0.50	0.25	0.10	ug/l	
75-01-4	Vinyl Chloride	0.10 U	0.10	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
17060-07-0	1,2-Dichloroethane-D4	108%		74-125%
2037-26-5	Toluene-D8	104%		88-111%

(a) Associated ECC 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

Ahtna

CHAIN OF CUSTODY

WATER / SOIL

Chain of Custody #: 0863

Carbon Copies: White - Laboratory Yellow - Ahtna

FC21167

Project Information:

Project Location: Former Fort Ord, CA
Sampler/s: M. Fisler / S. Bennett
Project Name: Former Fort Ord
Report To: Derek Lieberman
Project Number: 21177.000.01.0000 ~~21065.000.01.0000~~
E-Mail: dlieberman@ahtna.net
Sampling Event/Site: 4Q2024 GWMP
Laboratory: SGS

Analysis Requested

Lab Sample Receipt

Laboratory Sample Delivery Group #:
Custody Seal:
Temp (°C):

Lab Number	Sample Number/Description	Sample Collection Date	Sample Collection Time	Matrix: Water	Matrix: Soil	Matrix: Other	Total # of Bottles	Number of Preserved Bottles: HCl	HNO_3	H_2SO_4	NaOH	MeOH	$NaHSO_4$	None	Other	VOCs 8260 - SIM	~~Metals 6010C~~	~~Chloride 9056A~~	Notes
1	2450MOU2029A	12.11.24	0945	X				3								X			
2	2450MOU2021F	↓	1024	X				3								X			
3	2450MOU2023F		1045	X				3								X			
4	2450MOU2024D	↓	1047	X				3								X			

INITIAL ASSESSMENT TW
LABEL VERIFICATION SP
0.6 IR1

Turnaround Time: X : Standard ____: 3-5 Day Rush ____: 48 Hour Rush ____: 24 Hour Rush

Shipment: Method: Tracking ID:

Comments:

OU2

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time: 12.11.24 / 1406	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time: 12/12/24 930

5.1 5

SGS - Orlando Sample Receipt Summary

Job Number: fc21167 **Client:** AHTNA **Project:** OU2 - FFO2024Q4

Date / Time Received: 12/12/2024 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 791572392999

Cooler Temps (Raw Measured) °C: Cooler 1: (0.6);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Informatio	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 analysi	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample labe	☑		☐	
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)

Comments

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 12/12/2024 11:49:53 AM Reviewer: SP Date: 12/12/24

QC Evaluation: DOD QSM5.x Limits

Job Number: FC21167
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 12/11/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
VZ3122	SW846 8260D BY SIM						
VZ3122-BS	71-43-2	Benzene	BSP	REC	108	%	79-120
VZ3122-BS	56-23-5	Carbon Tetrachloride	BSP	REC	108	%	72-136
VZ3122-BS	67-66-3	Chloroform	BSP	REC	108	%	79-124
VZ3122-BS	75-34-3	1,1-Dichloroethane	BSP	REC	110	%	77-125
VZ3122-BS	107-06-2	1,2-Dichloroethane	BSP	REC	102	%	73-128
VZ3122-BS	156-59-2	cis-1,2-Dichloroethylene	BSP	REC	112	%	78-123
VZ3122-BS	78-87-5	1,2-Dichloropropane	BSP	REC	104	%	78-122
VZ3122-BS	75-09-2	Methylene Chloride	BSP	REC	124	%	74-124
VZ3122-BS	127-18-4	Tetrachloroethylene	BSP	REC	118	%	74-129
VZ3122-BS	79-01-6	Trichloroethylene	BSP	REC	110	%	79-123
VZ3122-BS	75-01-4	Vinyl Chloride	BSP	REC	100	%	58-137
VZ3122-BS	17060-07-0	1,2-Dichloroethane-D4	BSP	SURR	95	%	81-118
VZ3122-BS	2037-26-5	Toluene-D8	BSP	SURR	100	%	89-112
FC21036-3MS*	71-43-2	Benzene	MS	REC	123	%	79-120
FC21036-3MS*	56-23-5	Carbon Tetrachloride	MS	REC	134	%	72-136
FC21036-3MS*	67-66-3	Chloroform	MS	REC	128	%	79-124
FC21036-3MS*	75-34-3	1,1-Dichloroethane	MS	REC	130	%	77-125
FC21036-3MS*	107-06-2	1,2-Dichloroethane	MS	REC	120	%	73-128
FC21036-3MS*	156-59-2	cis-1,2-Dichloroethylene	MS	REC	126	%	78-123
FC21036-3MS*	78-87-5	1,2-Dichloropropane	MS	REC	119	%	78-122
FC21036-3MS*	75-09-2	Methylene Chloride	MS	REC	231	%	74-124
FC21036-3MS*	127-18-4	Tetrachloroethylene	MS	REC	128	%	74-129
FC21036-3MS*	79-01-6	Trichloroethylene	MS	REC	127	%	79-123
FC21036-3MS*	75-01-4	Vinyl Chloride	MS	REC	122	%	58-137
FC21036-3MS*	17060-07-0	1,2-Dichloroethane-D4	MS	SURR	104	%	81-118
FC21036-3MS*	2037-26-5	Toluene-D8	MS	SURR	97	%	89-112
FC21036-3MSD*	71-43-2	Benzene	MSD	REC	110	%	79-120
FC21036-3MSD*	71-43-2	Benzene	MSD	RPD	11	%	20
FC21036-3MSD*	56-23-5	Carbon Tetrachloride	MSD	REC	119	%	72-136
FC21036-3MSD*	56-23-5	Carbon Tetrachloride	MSD	RPD	12	%	20
FC21036-3MSD*	67-66-3	Chloroform	MSD	REC	114	%	79-124
FC21036-3MSD*	67-66-3	Chloroform	MSD	RPD	12	%	20
FC21036-3MSD*	75-34-3	1,1-Dichloroethane	MSD	REC	116	%	77-125
FC21036-3MSD*	75-34-3	1,1-Dichloroethane	MSD	RPD	11	%	20
FC21036-3MSD*	107-06-2	1,2-Dichloroethane	MSD	REC	107	%	73-128
FC21036-3MSD*	107-06-2	1,2-Dichloroethane	MSD	RPD	11	%	20
FC21036-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	REC	114	%	78-123
FC21036-3MSD*	156-59-2	cis-1,2-Dichloroethylene	MSD	RPD	10	%	20
FC21036-3MSD*	78-87-5	1,2-Dichloropropane	MSD	REC	106	%	78-122
FC21036-3MSD*	78-87-5	1,2-Dichloropropane	MSD	RPD	12	%	20
FC21036-3MSD*	75-09-2	Methylene Chloride	MSD	REC	228	%	74-124
FC21036-3MSD*	75-09-2	Methylene Chloride	MSD	RPD	1	%	20

* Sample used for QC is not from job FC21167

QC Evaluation: DOD QSM5.x Limits

Job Number: FC21167
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 12/11/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
FC21036-3MSD*	127-18-4	Tetrachloroethylene	MSD	REC	116	%	74-129
FC21036-3MSD*	127-18-4	Tetrachloroethylene	MSD	RPD	10	%	20
FC21036-3MSD*	79-01-6	Trichloroethylene	MSD	REC	114	%	79-123
FC21036-3MSD*	79-01-6	Trichloroethylene	MSD	RPD	11	%	20
FC21036-3MSD*	75-01-4	Vinyl Chloride	MSD	REC	110	%	58-137
FC21036-3MSD*	75-01-4	Vinyl Chloride	MSD	RPD	10	%	20
FC21036-3MSD*	17060-07-0	1,2-Dichloroethane-D4	MSD	SURR	104	%	81-118
FC21036-3MSD*	2037-26-5	Toluene-D8	MSD	SURR	98	%	89-112
VZ3122-MB	17060-07-0	1,2-Dichloroethane-D4	MB	SURR	104	%	81-118
VZ3122-MB	2037-26-5	Toluene-D8	MB	SURR	104	%	89-112
FC21167-1	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	105	%	81-118
FC21167-1	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112
FC21167-2	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC21167-2	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC21167-3	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	106	%	81-118
FC21167-3	2037-26-5	Toluene-D8	SAMP	SURR	105	%	89-112
FC21167-4	17060-07-0	1,2-Dichloroethane-D4	SAMP	SURR	108	%	81-118
FC21167-4	2037-26-5	Toluene-D8	SAMP	SURR	104	%	89-112

* Sample used for QC is not from job FC21167

MS Volatiles

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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: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3122-MB	Z77422.D	1	12/16/24	SS	n/a	n/a	VZ3122

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC21167-1, FC21167-2, FC21167-3, FC21167-4

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.50	0.10	ug/l	
56-23-5	Carbon Tetrachloride	ND	0.50	0.10	ug/l	
67-66-3	Chloroform	ND	0.50	0.10	ug/l	
75-34-3	1,1-Dichloroethane	ND	0.50	0.10	ug/l	
107-06-2	1,2-Dichloroethane	ND	0.50	0.10	ug/l	
156-59-2	cis-1,2-Dichloroethylene	ND	0.50	0.10	ug/l	
78-87-5	1,2-Dichloropropane	ND	0.50	0.10	ug/l	
75-09-2	Methylene Chloride	0.59	2.0	0.50	ug/l	J
127-18-4	Tetrachloroethylene	ND	0.50	0.10	ug/l	
79-01-6	Trichloroethylene	ND	0.50	0.10	ug/l	
75-01-4	Vinyl Chloride	ND	0.10	0.050	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	104%	74-125%
2037-26-5	Toluene-D8	104%	88-111%

Blank Spike Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VZ3122-BS	Z77420.D	1	12/16/24	SS	n/a	n/a	VZ3122

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC21167-1, FC21167-2, FC21167-3, FC21167-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	5	5.4	108	81-122
56-23-5	Carbon Tetrachloride	5	5.4	108	76-136
67-66-3	Chloroform	5	5.4	108	80-124
75-34-3	1,1-Dichloroethane	5	5.5	110	81-122
107-06-2	1,2-Dichloroethane	5	5.1	102	75-125
156-59-2	cis-1,2-Dichloroethylene	5	5.6	112	78-120
78-87-5	1,2-Dichloropropane	5	5.2	104	76-124
75-09-2	Methylene Chloride	5	6.2	124	69-135
127-18-4	Tetrachloroethylene	5	5.9	118	76-135
79-01-6	Trichloroethylene	5	5.5	110	81-126
75-01-4	Vinyl Chloride	5	5.0	100	69-159

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	95%	74-125%
2037-26-5	Toluene-D8	100%	88-111%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
FC21036-3MS	Z77430.D	20	12/16/24	SS	n/a	n/a	VZ3122
FC21036-3MSD	Z77431.D	20	12/16/24	SS	n/a	n/a	VZ3122
FC21036-3	Z77424.D	1	12/16/24	SS	n/a	n/a	VZ3122

The QC reported here applies to the following samples: **Method:** SW846 8260D BY SIM

FC21167-1, FC21167-2, FC21167-3, FC21167-4

CAS No.	Compound	FC21036-3 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	0.50	U	100	123	123*	100	110	110	11	81-122/14
56-23-5	Carbon Tetrachloride	0.50	U	100	134	134	100	119	119	12	76-136/23
67-66-3	Chloroform	0.50	U	100	128	128*	100	114	114	12	80-124/15
75-34-3	1,1-Dichloroethane	0.50	U	100	130	130*	100	116	116	11	81-122/15
107-06-2	1,2-Dichloroethane	0.50	U	100	120	120	100	107	107	11	75-125/14
156-59-2	cis-1,2-Dichloroethylene	0.50	U	100	126	126*	100	114	114	10	78-120/15
78-87-5	1,2-Dichloropropane	0.50	U	100	119	119	100	106	106	12	76-124/14
75-09-2	Methylene Chloride	2.0	U	100	231	231*	100	228	228*	1	69-135/16
127-18-4	Tetrachloroethylene	0.50	U	100	128	128	100	116	116	10	76-135/16
79-01-6	Trichloroethylene	1.1		100	128	127*	100	115	114	11	81-126/15
75-01-4	Vinyl Chloride	0.10	U	100	122	122	100	110	110	10	69-159/18

CAS No.	Surrogate Recoveries	MS	MSD	FC21036-3	Limits
17060-07-0	1,2-Dichloroethane-D4	104%	104%	106%	74-125%
2037-26-5	Toluene-D8	97%	98%	103%	88-111%

* = Outside of Control Limits.

Instrument Performance Check (BFB)

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3122-BFB
Lab File ID: Z77410.D
Instrument ID: GCMSZ
Injection Date: 12/16/24
Injection Time: 10:27

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
95	Base peak, 100% relative abundance	117331	100.0		Pass
96	5.0 - 9.0% of mass 95	7877	6.71		Pass
173	Less than 2.0% of mass 174	497	0.42	(0.58) [a]	Pass
174	50.0 - 200.0% of mass 95	86075	73.4		Pass
175	5.0 - 9.0% of mass 174	6061	5.17	(7.04) [a]	Pass
176	95.0 - 105.0% of mass 174	83115	70.8	(96.6) [a]	Pass
177	5.0 - 10.0% of mass 176	5366	4.57	(6.46) [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
VZ3122-IC3122	Z77411.D	12/16/24	10:50	00:23	Initial cal 1
VZ3122-IC3122	Z77412.D	12/16/24	11:13	00:46	Initial cal 2
VZ3122-IC3122	Z77413.D	12/16/24	11:36	01:09	Initial cal 3
VZ3122-ICC3122	Z77414.D	12/16/24	11:59	01:32	Initial cal 4
VZ3122-IC3122	Z77415.D	12/16/24	12:22	01:55	Initial cal 5
VZ3122-IC3122	Z77416.D	12/16/24	12:44	02:17	Initial cal 6
VZ3122-IC3122	Z77417.D	12/16/24	13:07	02:40	Initial cal 7
VZ3122-ICV3122	Z77419.D	12/16/24	13:53	03:26	Initial cal verification 4
VZ3122-BS	Z77420.D	12/16/24	14:16	03:49	Blank Spike
VZ3122-MB	Z77422.D	12/16/24	15:02	04:35	Method Blank
FC21167-1	Z77423.D	12/16/24	15:25	04:58	2450MOU2029A
FC21036-3	Z77424.D	12/16/24	15:47	05:20	(used for QC only; not part of job FC21167)
ZZZZZZ	Z77425.D	12/16/24	16:10	05:43	(unrelated sample)
ZZZZZZ	Z77426.D	12/16/24	16:33	06:06	(unrelated sample)
FC21167-2	Z77427.D	12/16/24	16:56	06:29	2450MOU2021F
FC21167-3	Z77428.D	12/16/24	17:19	06:52	2450MOU2023F
FC21167-4	Z77429.D	12/16/24	17:42	07:15	2450MOU2024D
FC21036-3MS	Z77430.D	12/16/24	18:05	07:38	Matrix Spike
FC21036-3MSD	Z77431.D	12/16/24	18:28	08:01	Matrix Spike Duplicate
VZ3122-ECC3122	Z77432.D	12/16/24	18:50	08:23	Ending cal 4

Internal Standard Area Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Check Std:	VZ3122-ICC3122	**Injection Date:**	12/16/24
Lab File ID:	Z77414.D	**Injection Time:**	11:59
Instrument ID:	GCMSZ	**Method:**	SW846 8260D BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT
Initial Cal [a]	31791	7.89	25958	10.97
Check Std [b]	31791	7.89	25958	10.97
Upper Limit [c]	63582	8.06	51916	11.14
Lower Limit [d]	15896	7.72	12979	10.80

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT
VZ3122-BS	33403	7.89	26680	10.98
VZ3122-MB	30727	7.89	25156	10.97
FC21167-1	29265	7.89	24127	10.97
FC21036-3	28480	7.89	23617	10.98
ZZZZZZ	27742	7.89	23194	10.97
ZZZZZZ	27358	7.89	22756	10.97
FC21167-2	27667	7.89	22754	10.97
FC21167-3	29190	7.89	23128	10.98
FC21167-4	27489	7.89	22190	10.98
FC21036-3MS	29063	7.89	24496	10.98
FC21036-3MSD	29966	7.89	25115	10.98
VZ3122-ECC3122	29339	7.89	24720	10.98

IS 1 = Fluorobenzene
IS 2 = Chlorobenzene-D5

(a) Initial Cal is: VZ3122-ICC3122 Z77414.D 12/16/24 11:59
(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.

Surrogate Recovery Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Method: SW846 8260D BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2
FC21167-1	Z77423.D	105	104
FC21167-2	Z77427.D	106	105
FC21167-3	Z77428.D	106	105
FC21167-4	Z77429.D	108	104
FC21036-3MS	Z77430.D	104	97
FC21036-3MSD	Z77431.D	104	98
VZ3122-BS	Z77420.D	95	100
VZ3122-MB	Z77422.D	104	104

Surrogate Compounds	Recovery Limits
S1 = 1,2-Dichloroethane-D4	74-125%
S2 = Toluene-D8	88-111%

Initial Calibration Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3122-ICC3122
Lab FileID: Z77414.D

Response Factor Report MSVOA15-Z

Method : C:\msdchem\1\met...MCL-12-16-2024.M (RTE Integrator)
Title : SW-846 Method 5030/8260D SIM
Last Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

Calibration Files
1 =Z77411.D 2 =Z77412.D 3 =Z77413.D 4 =Z77414.D
5 =Z77415.D 6 =Z77416.D 7 =Z77417.D

Compound	1	2	3	4	5	6	7	Avg	%RSD
1) I Fluorobenzene	----------ISTD----------								
2) Vinyl Chloride	0.462	0.442	0.406	0.407	0.430	0.418	0.413	0.425	4.88
3) Chloromethane	0.737	0.544	0.483	0.480	0.496	0.472	0.459	0.524	18.60
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9997									
Response Ratio = 0.00000 + 0.51304 *A + -0.01339 *A^2									
4) 1,1-Dichloroethen	0.519	0.453	0.404	0.337	0.344	0.353	0.329	0.391	18.34
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9985									
Response Ratio = 0.00000 + 0.36956 *A + -0.00924 *A^2									
5) Methylene Chlorid	6.068	1.181	0.732	0.500	0.417	0.393	0.367	1.380	151.28
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9952									
Response Ratio = 0.00000 + 0.51554 *A + -0.03852 *A^2									
6) trans-1,2-Dichlor	0.528	0.459	0.426	0.368	0.368	0.376	0.357	0.412	15.38
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9993									
Response Ratio = 0.00000 + 0.39040 *A + -0.00766 *A^2									
7) 1,1-Dichloroethan	0.804	0.647	0.596	0.518	0.503	0.503	0.479	0.579	20.07
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.54262 *A + -0.01543 *A^2									
8) cis-1,2-Dichloroe	0.464	0.377	0.347	0.299	0.293	0.297	0.288	0.338	19.22
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9996									
Response Ratio = 0.00000 + 0.30782 *A + -0.00479 *A^2									
9) Chloroform	1.797	0.882	0.686	0.579	0.552	0.548	0.524	0.795	57.68
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9995									
Response Ratio = 0.00000 + 0.60186 *A + -0.01929 *A^2									
10) Carbon Tetrachlor	0.374	0.382	0.329	0.275	0.290	0.307	0.296	0.322	13.01
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9980									
Response Ratio = 0.00000 + 0.29967 *A + -0.00047 *A^2									
11) 1,1,1-Trichloroet	0.832	0.504	0.462	0.395	0.404	0.422	0.405	0.489	31.90
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9989									
Response Ratio = 0.00000 + 0.41854 *A + -0.00263 *A^2									
12) Benzene	1.351	1.050	1.027	0.922	0.931	0.979	0.957	1.031	14.45
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9994									
Response Ratio = 0.00000 + 0.95829 *A + 0.00037 *A^2									
13)S 1,2-Dichloroethan	0.341	0.355	0.367	0.332	0.329	0.308	0.302	0.333	7.05
14) 1,2-Dichloroethan	0.642	0.458	0.445	0.397	0.370	0.363	0.347	0.432	23.57
---- Quadratic regr., Force(0,0) ---- Coefficient = 0.9998									
Response Ratio = 0.00000 + 0.40692 *A + -0.01512 *A^2									

Initial Calibration Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3122-ICC3122
Lab FileID: Z77414.D

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15)  Trichloroethene   0.376 0.278 0.270 0.236 0.245 0.267 0.264 0.277  16.71
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9990
              Response Ratio = 0.00000 + 0.23879 *A + 0.00686 *A^2

16)  1,2-Dichloropropa 0.392 0.282 0.294 0.266 0.265 0.278 0.276 0.293  15.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9996
              Response Ratio = 0.00000 + 0.26538 *A + 0.00279 *A^2

17)  cis-1,3-Dichlorop 0.492 0.313 0.329 0.309 0.320 0.350 0.361 0.353  18.13
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.29227 *A + 0.01760 *A^2


18) I   Chlorobenzene-d5      ----------------ISTD---------------------
19)S Toluene-d8        1.098 1.079 1.083 1.079 1.068 1.087 1.104 1.085   1.12
20)  trans-1,3-Dichlor 0.571 0.336 0.376 0.369 0.385 0.425 0.444 0.415  18.72
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.34202 *A + 0.02578 *A^2

21)  Tetrachloroethene 0.522 0.358 0.342 0.292 0.304 0.329 0.329 0.354  21.89
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9992
              Response Ratio = 0.00000 + 0.29351 *A + 0.00933 *A^2

22)  1,4-Dichlorobenze 1.178 0.699 0.731 0.690 0.705 0.747 0.755 0.786  22.18
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9998
              Response Ratio = 0.00000 + 0.67534 *A + 0.02060 *A^2

23)  1,2-Dibromo-3-Chl 0.181 0.105 0.074 0.072 0.068 0.069 0.069 0.091  45.99
            ---- Quadratic regr., Force(0,0) ----  Coefficient =  0.9997
              Response Ratio = 0.00000 + 0.06910 *A + -0.00011 *A^2

------------------------------------------------------------------------------
(#) = Out of Range

          SIMCL-12-16-2024.M        Mon Dec 16 14:43:19 2024
```

Initial Calibration Verification

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Sample: VZ3122-ICV3122
Lab FileID: Z77419.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\121624\Z77419.D Vial: 10
Acq On : 16 Dec 2024 1:53 pm Operator: SAMANTHA
Sample : icv3122-4 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-12-16-2024.M (RTE Integrator)
Title : SW-846 Method 5030/8260D SIM
Last Update : Mon Dec 16 14:10:38 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	102	0.00	7.89
2		Vinyl Chloride	0.425	0.398	6.4	100	0.00	3.19
		----------	Amount	Calc.	%Drift			
3		Chloromethane	5.000	4.341	13.2	93	0.00	3.12
4		1,1-Dichloroethene	5.000	5.262	-5.2	115	0.00	4.57
5		Methylene Chloride	5.000	5.577	-11.5	108	0.00	5.21
6		trans-1,2-Dichloroethene	5.000	5.242	-4.8	112	0.00	5.39
7		1,1-Dichloroethane	5.000	5.206	-4.1	108	0.00	6.06
8		cis-1,2-Dichloroethene	5.000	5.475	-9.5	113	0.00	6.62
9		Chloroform	5.000	5.192	-3.8	107	0.00	6.88
10		Carbon Tetrachloride	5.000	4.660	6.8	104	0.00	7.05
11		1,1,1-Trichloroethane	5.000	4.946	1.1	107	0.00	7.12
12		Benzene	5.000	5.059	-1.2	108	0.00	7.49
		----------	AvgRF	CCRF	%Dev			
13	S	1,2-Dichloroethane-d4	0.333	0.331	0.6	102	0.00	7.62
		----------	Amount	Calc.	%Drift			
14		1,2-Dichloroethane	5.000	5.166	-3.3	104	0.00	7.69
15		Trichloroethene	5.000	4.995	0.1	106	0.00	8.06
16		1,2-Dichloropropane	5.000	5.123	-2.5	106	0.00	8.58
17		cis-1,3-Dichloropropene	5.000	5.035	-0.7	104	0.00	9.24
		----------	AvgRF	CCRF	%Dev			
18	I	Chlorobenzene-d5	1.000	1.000	0.0	103	0.00	10.98
19	S	Toluene-d8	1.085	1.084	0.1	104	0.00	9.43
		----------	Amount	Calc.	%Drift			
20		trans-1,3-Dichloropropene	5.000	4.925	1.5	101	0.00	9.87
21		Tetrachloroethene	5.000	4.954	0.9	106	0.00	9.87
22		1,4-Dichlorobenzene	5.000	5.178	-3.6	108	0.00	13.35
23		1,2-Dibromo-3-Chloropropa	5.000	4.597	8.1	91	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z77414.D SIMCL-12-16-2024.M Mon Dec 16 14:42:53 2024

Continuing Calibration Summary

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Sample: VZ3122-ECC3122
Lab FileID: Z77432.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\121624\Z77432.D Vial: 23
Acq On : 16 Dec 2024 6:50 pm Operator: SAMANTHA
Sample : ECC3122-4 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-12-16-2024.M (RTE Integrator)
Title : SW-846 Method 5030/8260D SIM
Last Update : Mon Dec 16 14:10:38 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	92	0.00	7.89
2		Vinyl Chloride	0.425	0.478	-12.5	108	0.00	3.18
		----------	Amount	Calc.	%Drift			
3		Chloromethane	5.000	5.454	-9.1	104	0.00	3.12
4		1,1-Dichloroethene	5.000	4.915	1.7	97	0.00	4.56
5		Methylene Chloride	5.000	8.647	-72.9#	143	0.00	5.21
6		trans-1,2-Dichloroethene	5.000	5.061	-1.2	97	0.00	5.38
7		1,1-Dichloroethane	5.000	5.177	-3.5	97	0.00	6.06
8		cis-1,2-Dichloroethene	5.000	5.216	-4.3	97	0.00	6.62
9		Chloroform	5.000	5.270	-5.4	98	0.00	6.88
10		Carbon Tetrachloride	5.000	5.088	-1.8	102	0.00	7.05
11		1,1,1-Trichloroethane	5.000	5.207	-4.1	101	0.00	7.12
12		Benzene	5.000	4.927	1.5	95	0.00	7.49
		----------	AvgRF	CCRF	%Dev			
13	S	1,2-Dichloroethane-d4	0.333	0.352	-5.7	98	0.00	7.62
		----------	Amount	Calc.	%Drift			
14		1,2-Dichloroethane	5.000	5.131	-2.6	93	0.00	7.69
15		Trichloroethene	5.000	5.100	-2.0	98	0.00	8.06
16		1,2-Dichloropropane	5.000	4.973	0.5	92	0.00	8.58
17		cis-1,3-Dichloropropene	5.000	4.894	2.1	91	0.00	9.24
		----------	AvgRF	CCRF	%Dev			
18	I	Chlorobenzene-d5	1.000	1.000	0.0	95	0.00	10.98
19	S	Toluene-d8	1.085	1.078	0.6	95	0.00	9.43
		----------	Amount	Calc.	%Drift			
20		trans-1,3-Dichloropropene	5.000	4.773	4.5	90	0.00	9.87
21		Tetrachloroethene	5.000	5.234	-4.7	103	0.00	9.87
22		1,4-Dichlorobenzene	5.000	5.316	-6.3	102	0.00	13.35
23		1,2-Dibromo-3-Chloropropa	5.000	4.737	5.3	87	0.00	14.52

(#) = Out of Range SPCC's out = 0 CCC's out = 0
Z77414.D SIMCL-12-16-2024.M Tue Dec 17 09:07:30 2024

Run Sequence Report

Job Number: FC21167
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Run ID: VZ3122 **Method:** SW846 8260D BY SIM **Instrument ID:** GCMSZ

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
VZ3122-BFB	Z77410.D	12/16/24 10:27	n/a	BFB Tune
VZ3122-IC3122	Z77411.D	12/16/24 10:50	n/a	Initial cal 1
VZ3122-IC3122	Z77412.D	12/16/24 11:13	n/a	Initial cal 2
VZ3122-IC3122	Z77413.D	12/16/24 11:36	n/a	Initial cal 3
VZ3122-ICC3122	Z77414.D	12/16/24 11:59	n/a	Initial cal 4
VZ3122-IC3122	Z77415.D	12/16/24 12:22	n/a	Initial cal 5
VZ3122-IC3122	Z77416.D	12/16/24 12:44	n/a	Initial cal 6
VZ3122-IC3122	Z77417.D	12/16/24 13:07	n/a	Initial cal 7
VZ3122-ICV3122	Z77419.D	12/16/24 13:53	n/a	Initial cal verification 4
VZ3122-BS	Z77420.D	12/16/24 14:16	n/a	Blank Spike
VZ3122-MB	Z77422.D	12/16/24 15:02	n/a	Method Blank
FC21167-1	Z77423.D	12/16/24 15:25	n/a	2450MOU2029A
FC21036-3	Z77424.D	12/16/24 15:47	n/a	(used for QC only; not part of job FC21167)
ZZZZZZ	Z77425.D	12/16/24 16:10	n/a	(unrelated sample)
ZZZZZZ	Z77426.D	12/16/24 16:33	n/a	(unrelated sample)
FC21167-2	Z77427.D	12/16/24 16:56	n/a	2450MOU2021F
FC21167-3	Z77428.D	12/16/24 17:19	n/a	2450MOU2023F
FC21167-4	Z77429.D	12/16/24 17:42	n/a	2450MOU2024D
FC21036-3MS	Z77430.D	12/16/24 18:05	n/a	Matrix Spike
FC21036-3MSD	Z77431.D	12/16/24 18:28	n/a	Matrix Spike Duplicate
VZ3122-ECC3122	Z77432.D	12/16/24 18:50	n/a	Ending cal 4

MS Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77423.D
Acq On : 16 Dec 2024 3:25 pm
Operator : SAMANTHA
Sample : FC21167-1 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 08:52:29 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

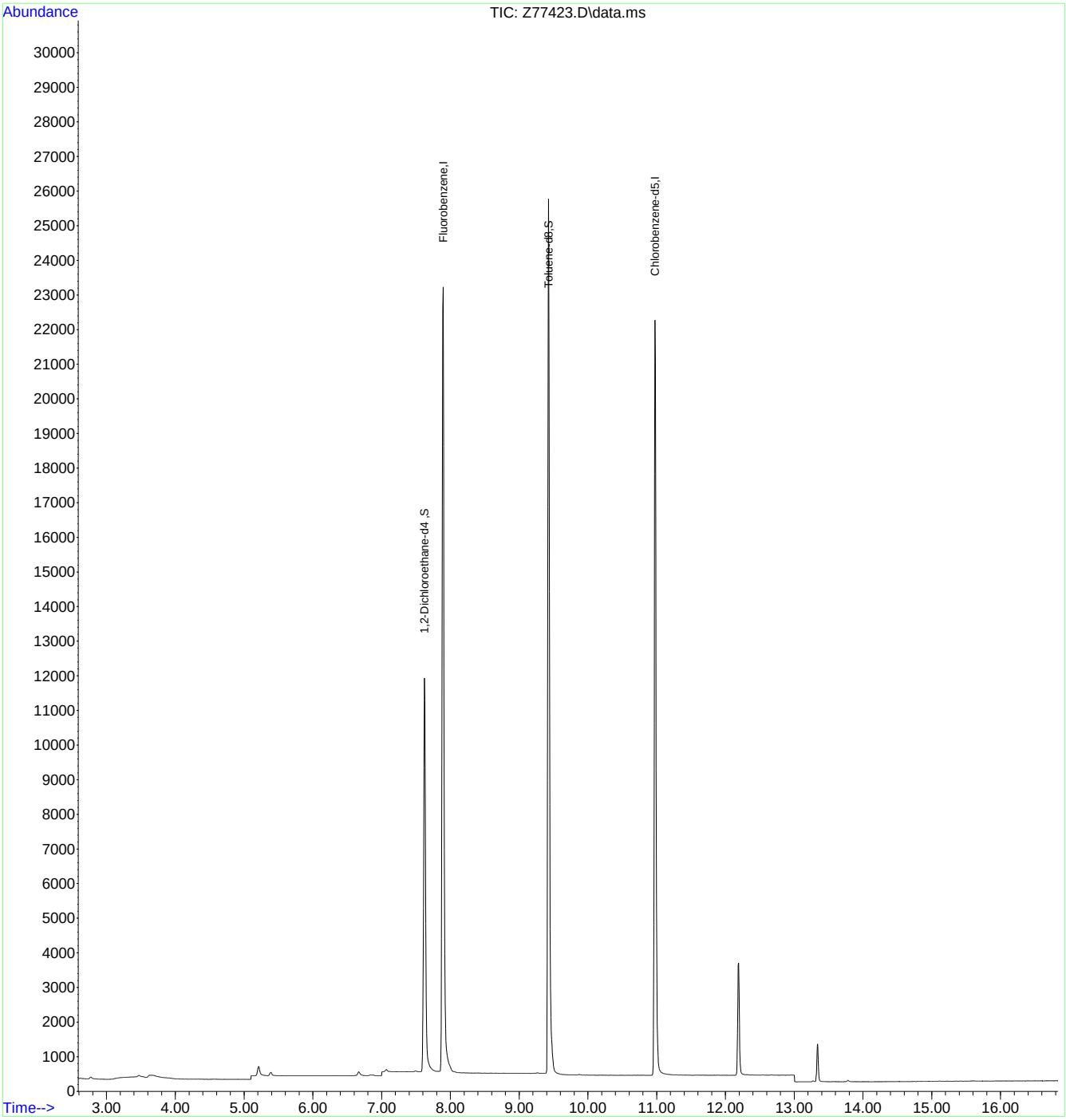
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	29265	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	24127	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10222	5.24	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 104.80%			
19) Toluene-d8	9.428	98	27241	5.20	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 104.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77423.D
Acq On : 16 Dec 2024 3:25 pm
Operator : SAMANTHA
Sample : FC21167-1 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Dec 17 08:52:29 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77427.D
Acq On : 16 Dec 2024 4:56 pm
Operator : SAMANTHA
Sample : FC21167-2 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 17 08:55:30 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

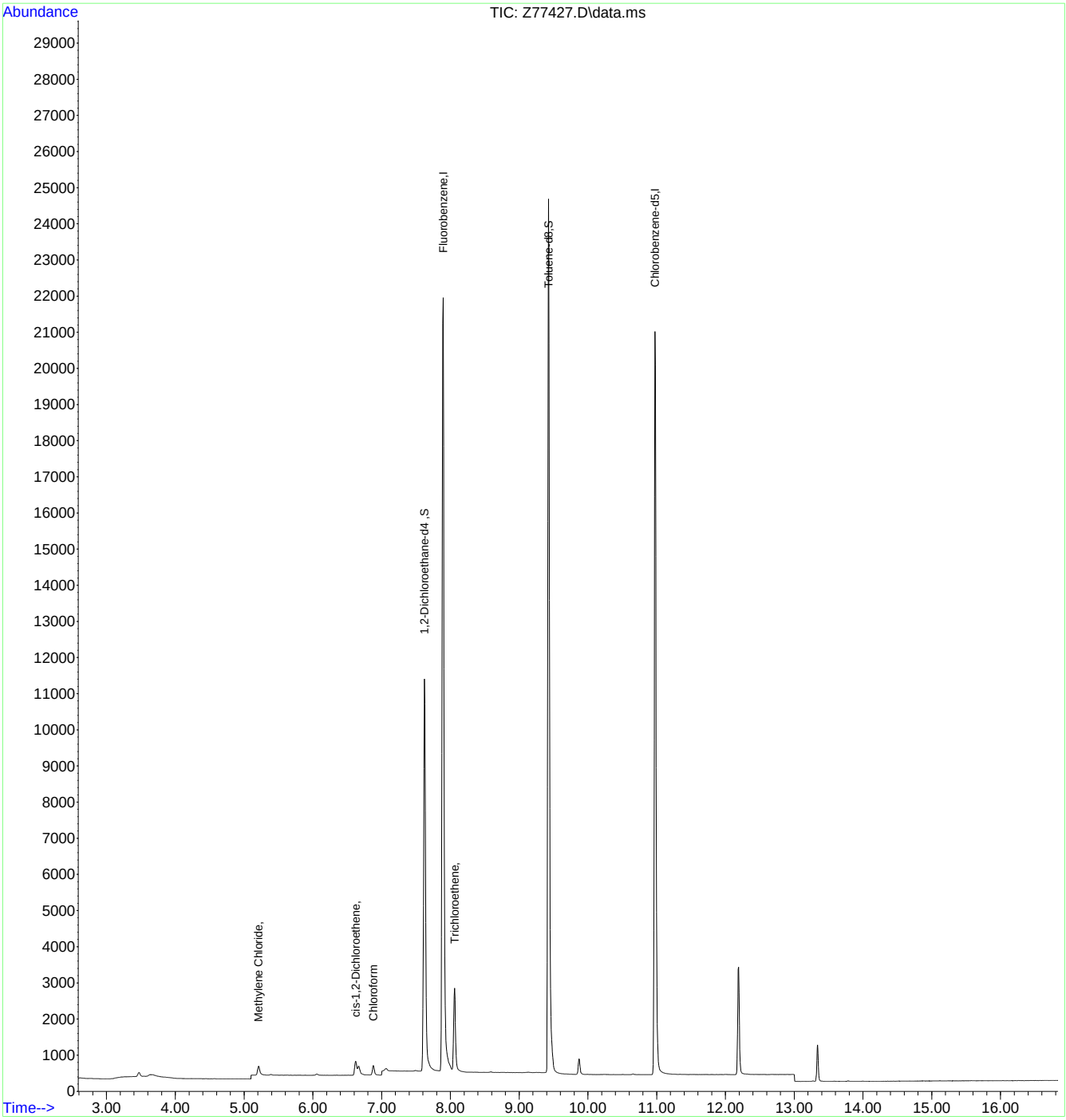
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	27667	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	22754	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	9780	5.30	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 106.00%			
19) Toluene-d8	9.428	98	25821	5.23	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 104.60%			
Target Compounds						Qvalue
5) Methylene Chloride	5.208	49	220	0.08	ug/L	98
8) cis-1,2-Dichloroethene	6.625	96	258	0.15	ug/L	92
9) Chloroform	6.877	83	631	0.19	ug/L	88
15) Trichloroethene	8.060	95	1160	0.87	ug/L	97

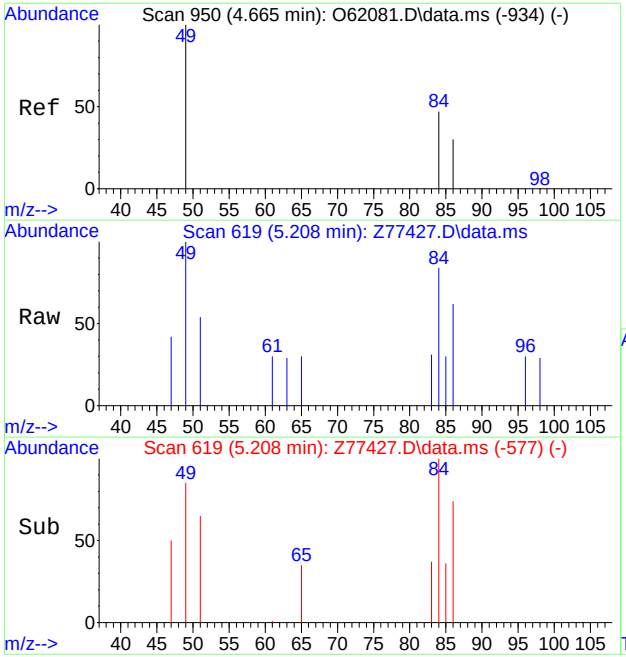
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77427.D
Acq On : 16 Dec 2024 4:56 pm
Operator : SAMANTHA
Sample : FC21167-2 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 18 Sample Multiplier: 1

Quant Time: Dec 17 08:55:30 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

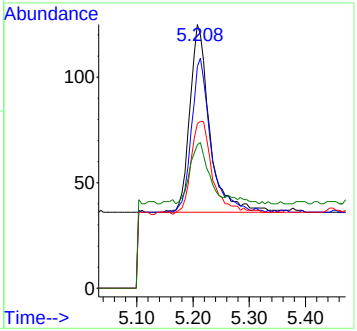


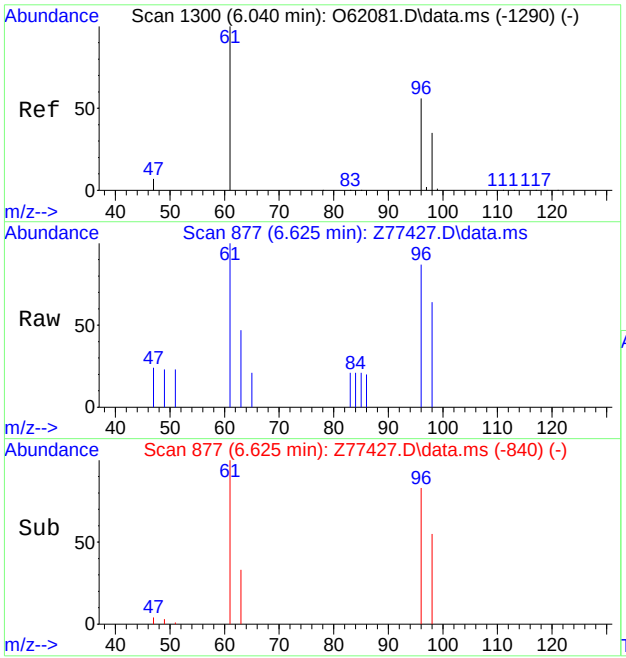


#5
Methylene Chloride
Concen: 0.08 ug/L
RT: 5.208 min Scan# 619
Delta R.T. -0.000 min
Lab File: Z77427.D
Acq: 16 Dec 2024 4:56 pm

Tgt Ion: 49 Resp: 220

Ion	Ratio	Lower	Upper
49	100		
84	77.5	48.9	108.9
86	47.2	19.8	79.8
51	31.5	1.2	61.2

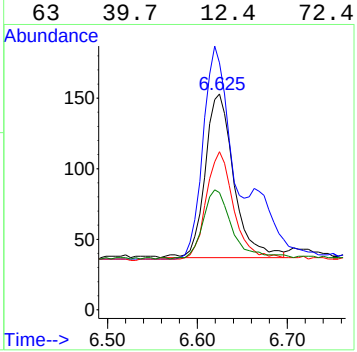


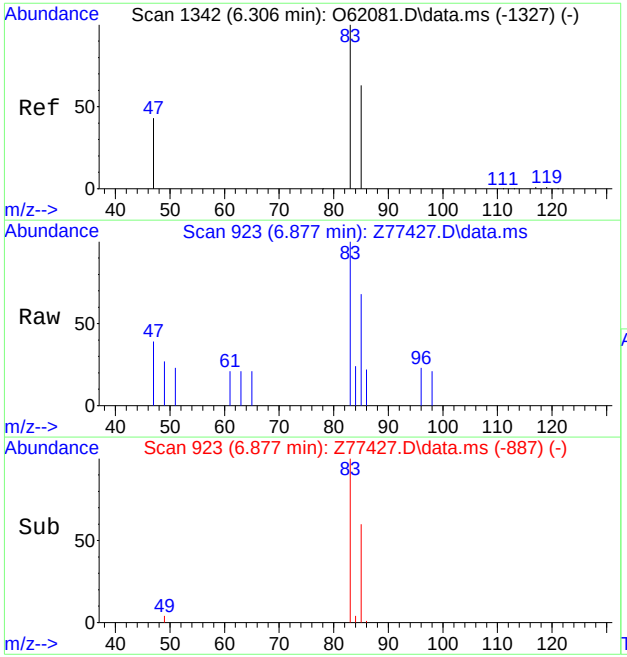


#8
cis-1,2-Dichloroethene
Concen: 0.15 ug/L
RT: 6.625 min Scan# 877
Delta R.T. 0.006 min
Lab File: Z77427.D
Acq: 16 Dec 2024 4:56 pm

Tgt Ion: 96 Resp: 258

Ion	Ratio	Lower	Upper
96	100		
61	119.8	102.3	162.3
98	65.5	32.9	92.9
63	39.7	12.4	72.4

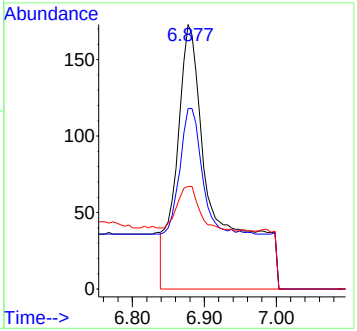


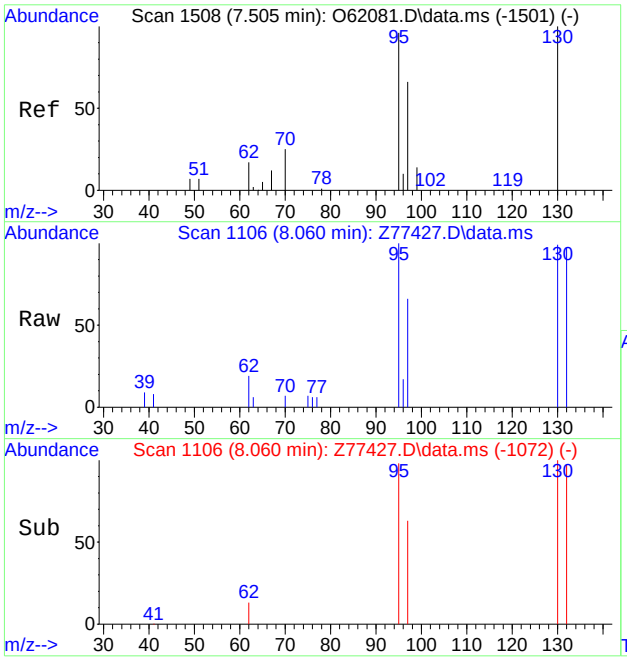


#9
Chloroform
Concen: 0.19 ug/L
RT: 6.877 min Scan# 923
Delta R.T. 0.000 min
Lab File: Z77427.D
Acq: 16 Dec 2024 4:56 pm

Tgt Ion: 83 Resp: 631

Ion	Ratio	Lower	Upper
83	100		
85	68.2	34.6	94.6
47	38.7	0.0	52.1

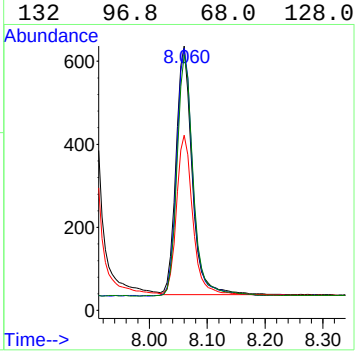




#15
Trichloroethene
Concen: 0.87 ug/L
RT: 8.060 min Scan# 1106
Delta R.T. 0.000 min
Lab File: Z77427.D
Acq: 16 Dec 2024 4:56 pm

Tgt Ion: 95 Resp: 1160

Ion	Ratio	Lower	Upper
95	100		
130	99.2	71.9	131.9
97	64.3	38.5	98.5
132	96.8	68.0	128.0



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77428.D
Acq On : 16 Dec 2024 5:19 pm
Operator : SAMANTHA
Sample : FC21167-3 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 17 08:56:02 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

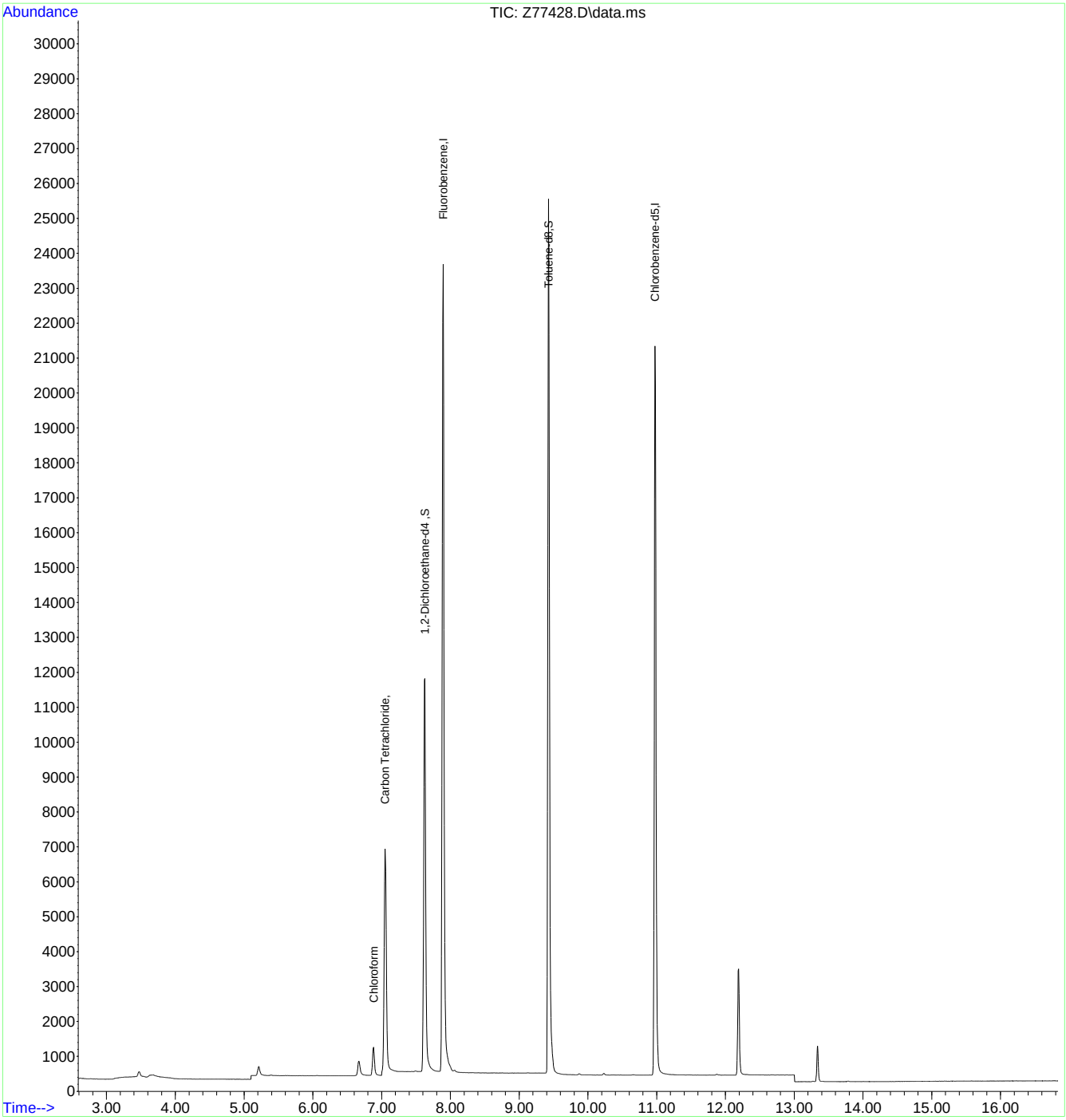
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	29190	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	23128	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.628	65	10356	5.32	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 106.40%			
19) Toluene-d8	9.428	98	26427	5.26	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 105.20%			
Target Compounds						Qvalue
9) Chloroform	6.883	83	1222	0.35	ug/L	93
10) Carbon Tetrachloride	7.051	117	5625	3.22	ug/L	99

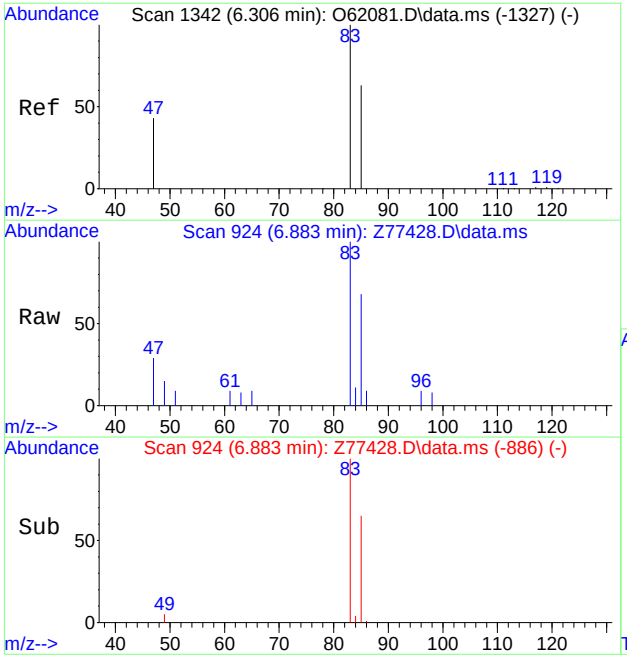
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77428.D
Acq On : 16 Dec 2024 5:19 pm
Operator : SAMANTHA
Sample : FC21167-3 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 19 Sample Multiplier: 1

Quant Time: Dec 17 08:56:02 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

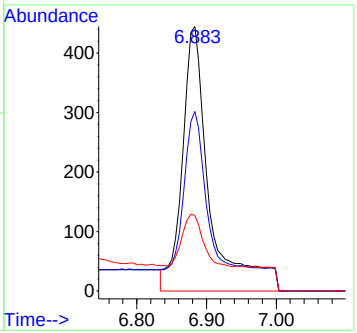


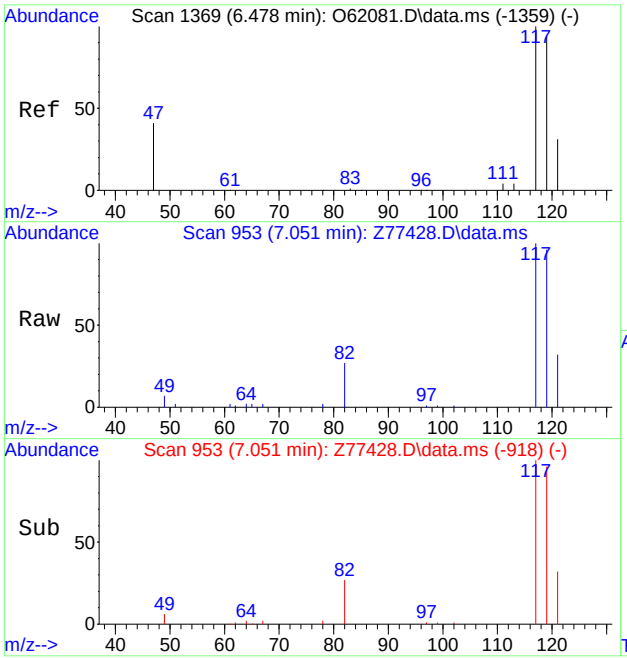


#9
Chloroform
Concen: 0.35 ug/L
RT: 6.883 min Scan# 924
Delta R.T. 0.006 min
Lab File: Z77428.D
Acq: 16 Dec 2024 5:19 pm

Tgt Ion: 83 Resp: 1222

Ion	Ratio	Lower	Upper
83	100		
85	67.9	34.6	94.6
47	28.5	0.0	52.1

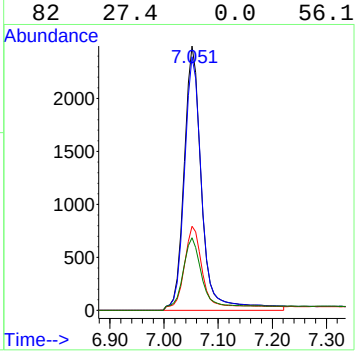




#10
Carbon Tetrachloride
Concen: 3.22 ug/L
RT: 7.051 min Scan# 953
Delta R.T. 0.000 min
Lab File: Z77428.D
Acq: 16 Dec 2024 5:19 pm

Tgt Ion:117 Resp: 5625

Ion	Ratio	Lower	Upper
117	100		
119	96.0	66.8	126.8
121	31.8	1.8	61.8
82	27.4	0.0	56.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77429.D
Acq On : 16 Dec 2024 5:42 pm
Operator : SAMANTHA
Sample : FC21167-4 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 09:06:28 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

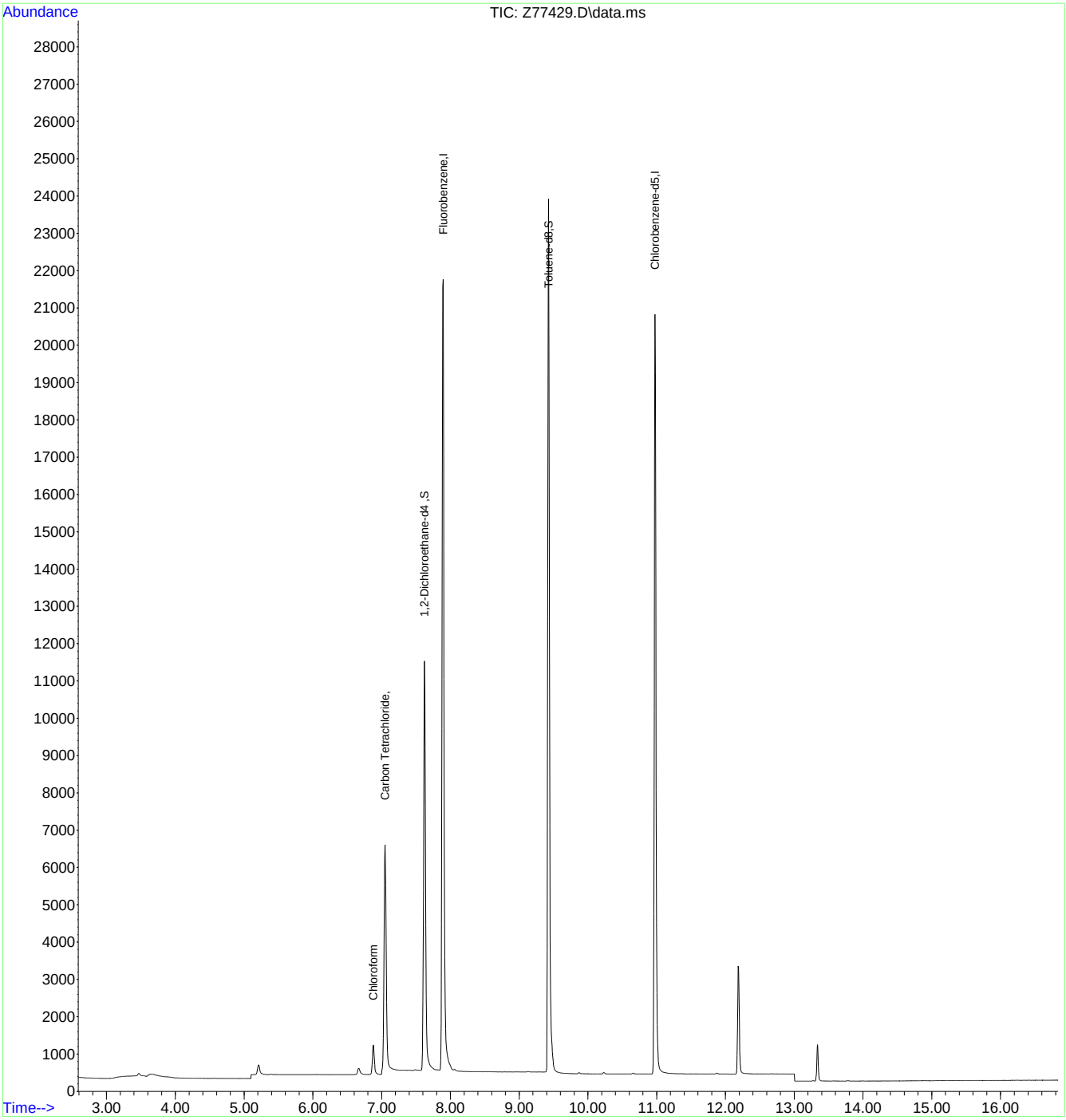
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	27489	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	22190	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.622	65	9863	5.38	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 107.60%			
19) Toluene-d8	9.429	98	25146	5.22	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 104.40%			
Target Compounds						Qvalue
9) Chloroform	6.878	83	1216	0.37	ug/L	94
10) Carbon Tetrachloride	7.051	117	5367	3.26	ug/L	99

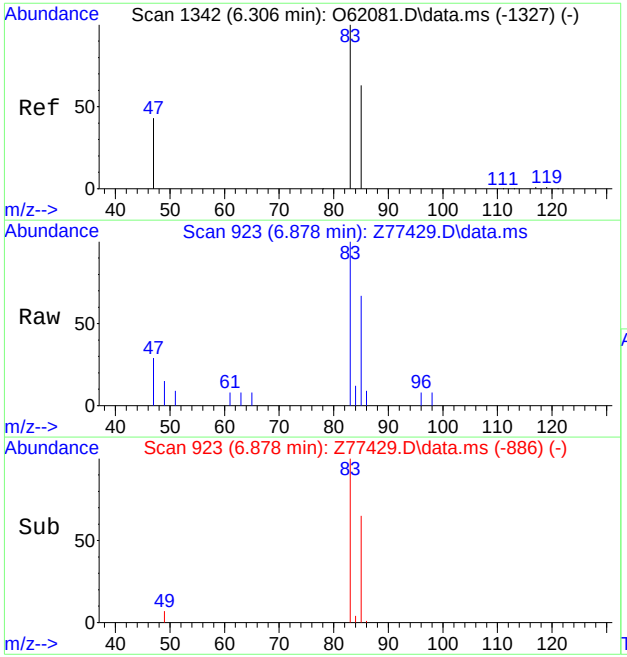
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77429.D
Acq On : 16 Dec 2024 5:42 pm
Operator : SAMANTHA
Sample : FC21167-4 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 17 09:06:28 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

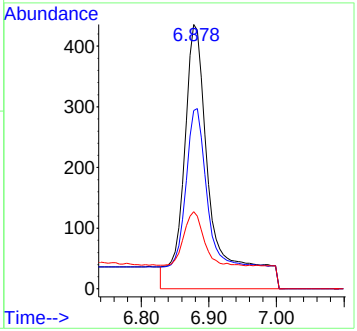


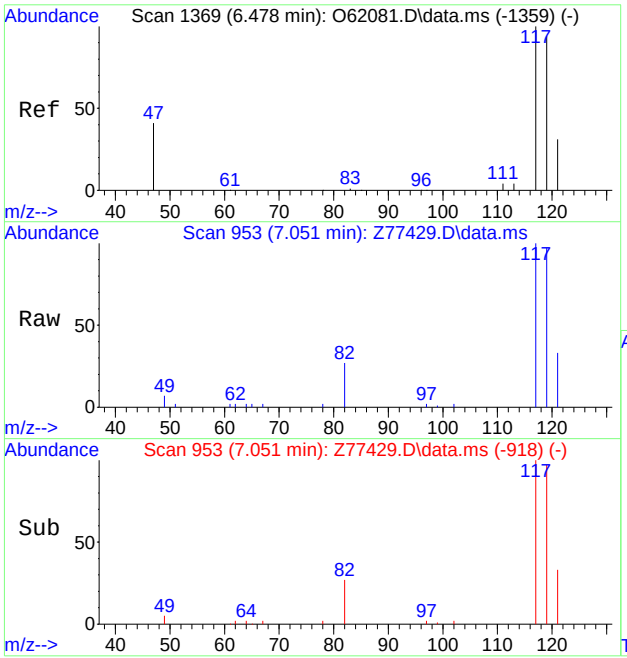


#9
Chloroform
Concen: 0.37 ug/L
RT: 6.878 min Scan# 923
Delta R.T. 0.001 min
Lab File: Z77429.D
Acq: 16 Dec 2024 5:42 pm

Tgt Ion: 83 Resp: 1216

Ion	Ratio	Lower	Upper
83	100		
85	67.4	34.6	94.6
47	29.1	0.0	52.1

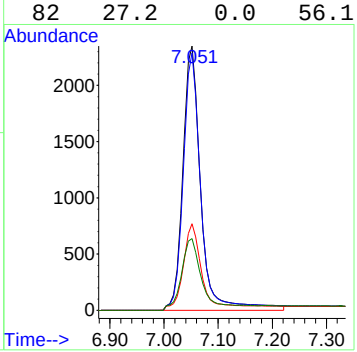




#10
Carbon Tetrachloride
Concen: 3.26 ug/L
RT: 7.051 min Scan# 953
Delta R.T. 0.000 min
Lab File: Z77429.D
Acq: 16 Dec 2024 5:42 pm

Tgt Ion:117 Resp: 5367

Ion	Ratio	Lower	Upper
117	100		
119	97.4	66.8	126.8
121	32.7	1.8	61.8
82	27.2	0.0	56.1



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77422.D
Acq On : 16 Dec 2024 3:02 pm
Operator : SAMANTHA
Sample : mb Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 17 08:49:02 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

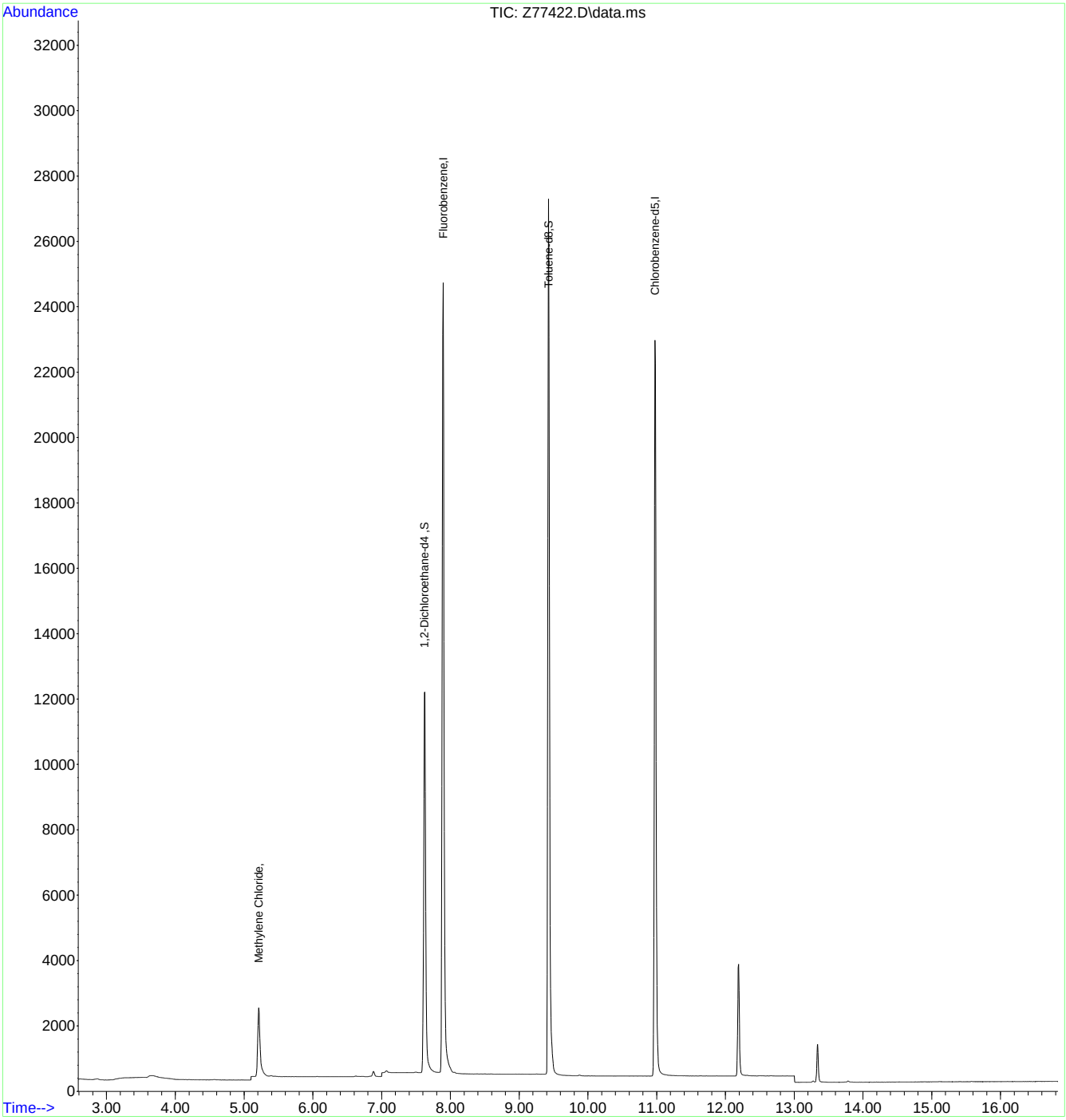
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	30727	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	25156	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10656	5.20	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 104.00%			
19) Toluene-d8	9.428	98	28436	5.21	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 104.20%			
Target Compounds						Qvalue
5) Methylene Chloride	5.213	49	1862	0.59	ug/L	97

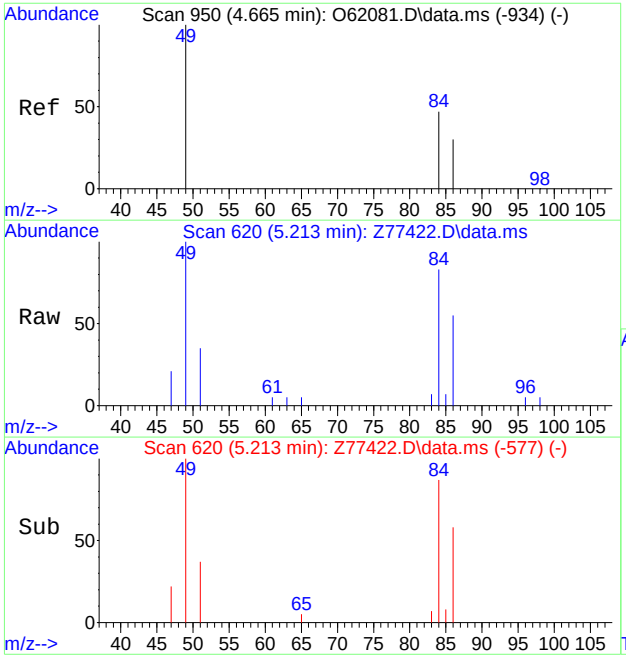
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77422.D
Acq On : 16 Dec 2024 3:02 pm
Operator : SAMANTHA
Sample : mb Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Dec 17 08:49:02 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

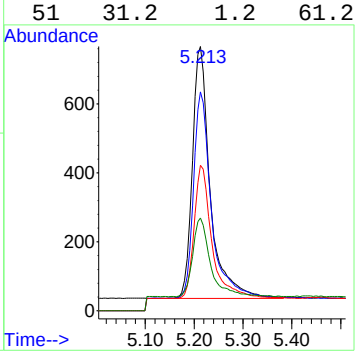




#5
Methylene Chloride
Concen: 0.59 ug/L
RT: 5.213 min Scan# 620
Delta R.T. 0.005 min
Lab File: Z77422.D
Acq: 16 Dec 2024 3:02 pm

Tgt Ion: 49 Resp: 1862

Ion	Ratio	Lower	Upper
49	100		
84	81.8	48.9	108.9
86	52.8	19.8	79.8
51	31.2	1.2	61.2



7.2.1

7

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77420.D
Acq On : 16 Dec 2024 2:16 pm
Operator : SAMANTHA
Sample : bs Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 16 14:41:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

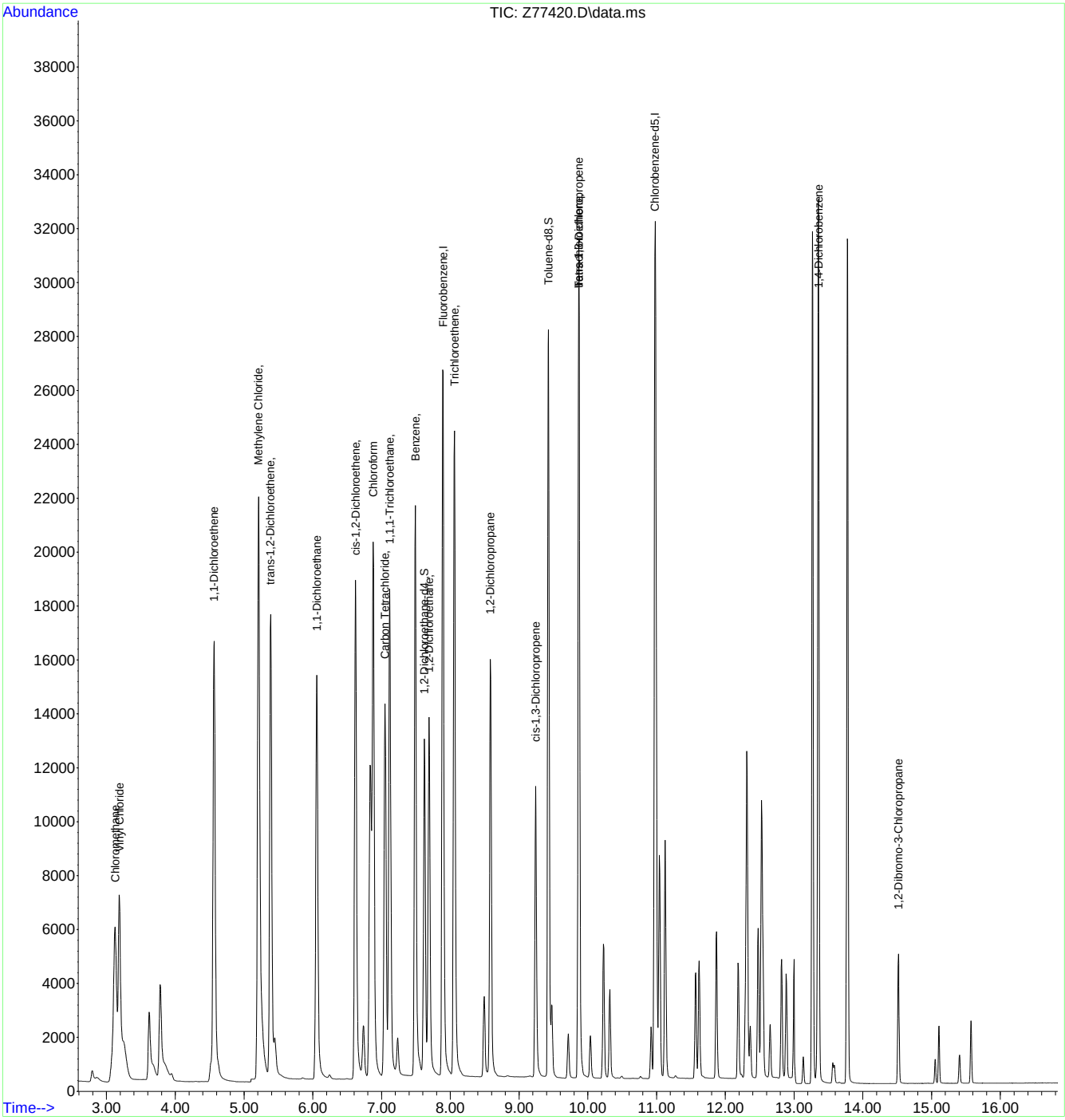
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	33403	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	26680	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10549	4.74	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 94.80%			
19) Toluene-d8	9.428	98	28904	4.99	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 99.80%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	14193	4.99	ug/L	99
3) Chloromethane	3.125	50	15040	4.49	ug/L	100
4) 1,1-Dichloroethene	4.561	61	14977	6.26	ug/L	99
5) Methylene Chloride	5.208	49	19248	6.15	ug/L	100
6) trans-1,2-Dichloroethene	5.384	61	14789	5.80	ug/L	100
7) 1,1-Dichloroethane	6.059	63	19373	5.52	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	11268	5.58	ug/L	92
9) Chloroform	6.878	83	21058	5.43	ug/L	99
10) Carbon Tetrachloride	7.051	117	10841	5.42	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	15448	5.56	ug/L	100
12) Benzene	7.493	78	34776	5.43	ug/L	100
14) 1,2-Dichloroethane	7.689	62	13333	5.10	ug/L	99
15) Trichloroethene	8.061	95	9101	5.53	ug/L	99
16) 1,2-Dichloropropane	8.582	63	9278	5.18	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	10707	5.16	ug/L	99
20) trans-1,3-Dichloropropene	9.869	75	10267	5.22	ug/L	99
21) Tetrachloroethene	9.869	166	9505	5.85	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	20467	5.50	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1720	4.67	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77420.D
Acq On : 16 Dec 2024 2:16 pm
Operator : SAMANTHA
Sample : bs Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Dec 16 14:41:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



SIMCL-12-16-2024.M Tue Dec 17 09:14:28 2024 Page: 2

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77430.D
Acq On : 16 Dec 2024 6:05 pm
Operator : SAMANTHA
Sample : fc21036-3MS Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 17 08:49:42 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

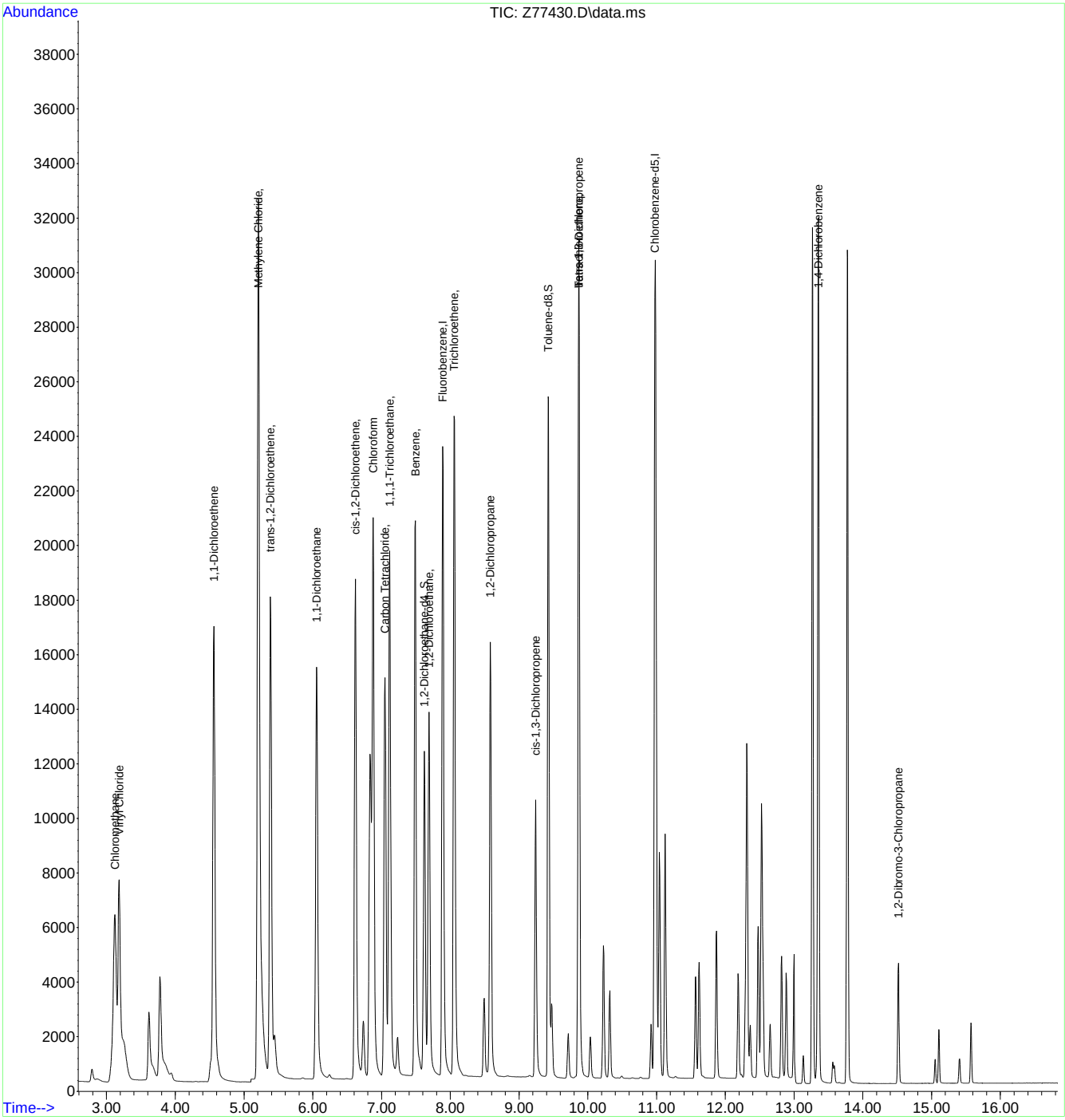
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.889	96	29063	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	24496	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.622	65	10076	5.20	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 104.00%			
19) Toluene-d8	9.423	98	25839	4.86	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 97.20%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.184	62	15135	6.12	ug/L	99
3) Chloromethane	3.121	50	16061	5.55	ug/L	100
4) 1,1-Dichloroethene	4.562	61	15284	7.39	ug/L	98
5) Methylene Chloride	5.208	49	28599	11.53	ug/L	98
6) trans-1,2-Dichloroethene	5.384	61	15093	6.83	ug/L	98
7) 1,1-Dichloroethane	6.054	63	19728	6.49	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	11023	6.28	ug/L	98
9) Chloroform	6.878	83	21525	6.42	ug/L	100
10) Carbon Tetrachloride	7.051	117	11686	6.72	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	16481	6.83	ug/L	99
12) Benzene	7.493	78	34269	6.15	ug/L	100
14) 1,2-Dichloroethane	7.689	62	13506	5.98	ug/L	99
15) Trichloroethene	8.055	95	9239	6.42	ug/L	94
16) 1,2-Dichloropropane	8.582	63	9330	5.97	ug/L	100
17) cis-1,3-Dichloropropene	9.241	75	9955	5.50	ug/L	100
20) trans-1,3-Dichloropropene	9.869	75	9398	5.20	ug/L	99
21) Tetrachloroethene	9.869	166	9586	6.41	ug/L #	99
22) 1,4-Dichlorobenzene	13.351	146	19814	5.78	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1623	4.80	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77430.D
Acq On : 16 Dec 2024 6:05 pm
Operator : SAMANTHA
Sample : fc21036-3MS Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,20
ALS Vial : 21 Sample Multiplier: 1

Quant Time: Dec 17 08:49:42 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77431.D
Acq On : 16 Dec 2024 6:28 pm
Operator : SAMANTHA
Sample : fc21036-3MSD Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,20
ALS Vial : 22 Sample Multiplier: 1

Quant Time: Dec 17 08:49:44 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

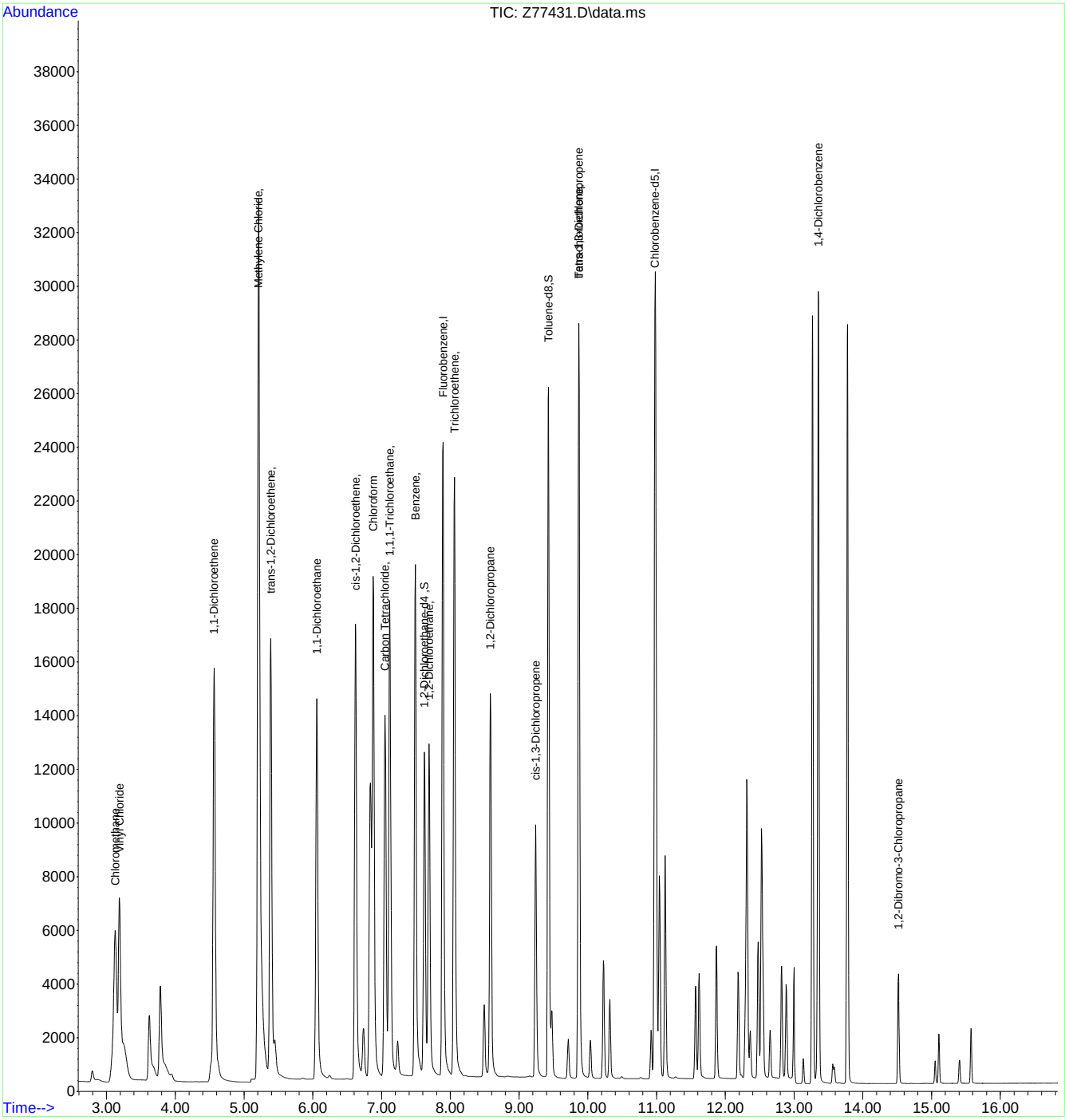
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	29966	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	25115	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.622	65	10418	5.22	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 104.40%			
19) Toluene-d8	9.429	98	26789	4.91	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 98.20%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	13992	5.49	ug/L	99
3) Chloromethane	3.125	50	14724	4.91	ug/L	99
4) 1,1-Dichloroethene	4.562	61	14230	6.65	ug/L	98
5) Methylene Chloride	5.208	49	29209	11.39	ug/L	98
6) trans-1,2-Dichloroethene	5.389	61	14005	6.13	ug/L	95
7) 1,1-Dichloroethane	6.059	63	18247	5.80	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	10291	5.68	ug/L	93
9) Chloroform	6.878	83	19868	5.72	ug/L	99
10) Carbon Tetrachloride	7.051	117	10666	5.95	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	15101	6.07	ug/L	99
12) Benzene	7.493	78	31642	5.51	ug/L	99
14) 1,2-Dichloroethane	7.689	62	12474	5.33	ug/L	99
15) Trichloroethene	8.061	95	8478	5.74	ug/L	99
16) 1,2-Dichloropropane	8.582	63	8551	5.32	ug/L	99
17) cis-1,3-Dichloropropene	9.241	75	9292	5.00	ug/L	100
20) trans-1,3-Dichloropropene	9.869	75	8726	4.74	ug/L	99
21) Tetrachloroethene	9.869	166	8827	5.78	ug/L #	100
22) 1,4-Dichlorobenzene	13.351	146	18365	5.25	ug/L	100
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1491	4.30	ug/L	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77431.D
Acq On : 16 Dec 2024 6:28 pm
Operator : SAMANTHA
Sample : fc21036-3MSD Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,20
ALS Vial : 22 Sample Multiplier: 1

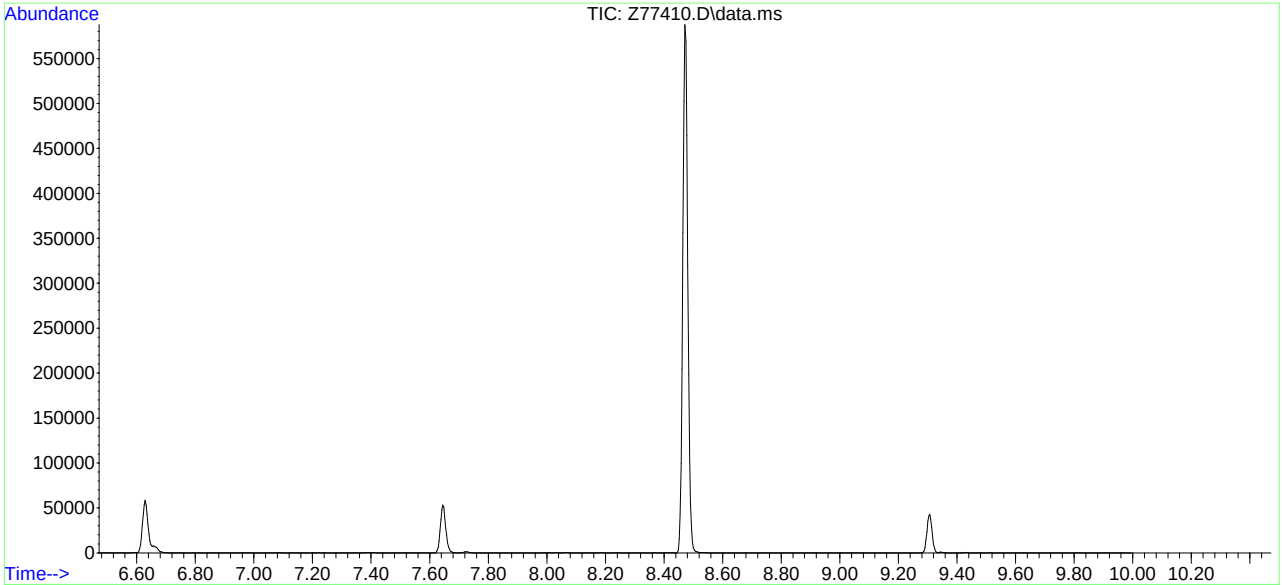
Quant Time: Dec 17 08:49:44 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



Methods: SW-846 8260D

Data File : C:\msdchem\1\data\121624\Z77410.D Vial: 1
Acq On : 16 Dec 2024 10:27 am Operator: SAMANTHA
Sample : bfb Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,, Multiplr: 1.00
MS Integration Params: micro.p

Method : C:\msdchem\1\met...MCL-12-10-2024.M (RTE Integrator)
Title : SW-846 Method 5030/8260D SIM



AutoFind: Scans 1487, 1488, 1489; Background Corrected with Scan 1477

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
95	95	100	100	100.0	117331	PASS
96	95	5	9	6.7	7877	PASS
173	174	0.00	2	0.6	497	PASS
174	95	50	200	73.4	86075	PASS
175	174	5	9	7.0	6061	PASS
176	174	95	105	96.6	83115	PASS
177	176	5	10	6.5	5366	PASS

Z77410.D SIMCL-12-10-2024.M Mon Dec 16 10:41:49 2024

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson
12/17/24 10:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:35:04 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

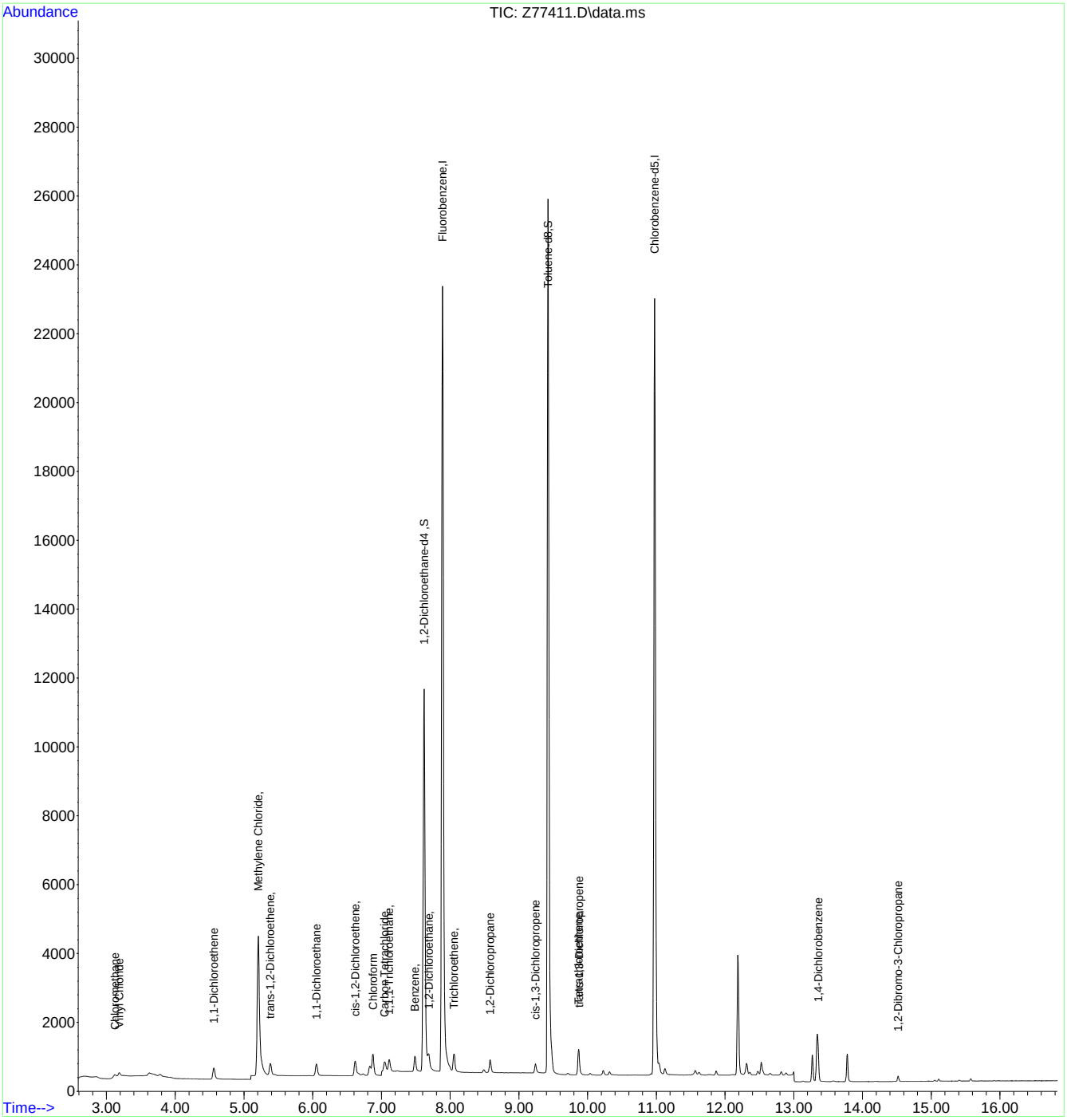
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.889	96	28973	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	24324	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	9876	4.87	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 97.40%			
19) Toluene-d8	9.423	98	26714	6.34	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 126.80%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.184	62	268	0.07	ug/L	81
3) Chloromethane	3.121	50	427	0.10	ug/L	96
4) 1,1-Dichloroethene	4.562	61	301	0.09	ug/L	98
5) Methylene Chloride	5.208	49	3516	0.86	ug/L	98
6) trans-1,2-Dichloroethene	5.384	61	306	0.09	ug/L	98
7) 1,1-Dichloroethane	6.054	63	466	0.10	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	269	0.09	ug/L	98
9) Chloroform	6.878	83	1041	0.20	ug/L	92
10) Carbon Tetrachloride	7.045	117	217m	0.08	ug/L	
11) 1,1,1-Trichloroethane	7.112	97	482	0.12	ug/L	99
12) Benzene	7.486	78	783	0.09	ug/L	99
14) 1,2-Dichloroethane	7.689	62	372	0.11	ug/L	98
15) Trichloroethene	8.055	95	218	0.10	ug/L	99
16) 1,2-Dichloropropane	8.582	63	227	0.10	ug/L	98
17) cis-1,3-Dichloropropene	9.240	75	285	0.10	ug/L	99
20) trans-1,3-Dichloropropene	9.874	75	278	0.17	ug/L	98
21) Tetrachloroethene	9.869	166	254	0.18	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	573m	0.18	ug/L	
23) 1,2-Dibromo-3-Chloropr...	14.517	75	88m	0.29	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:35:04 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Manual Integration Approval Summary

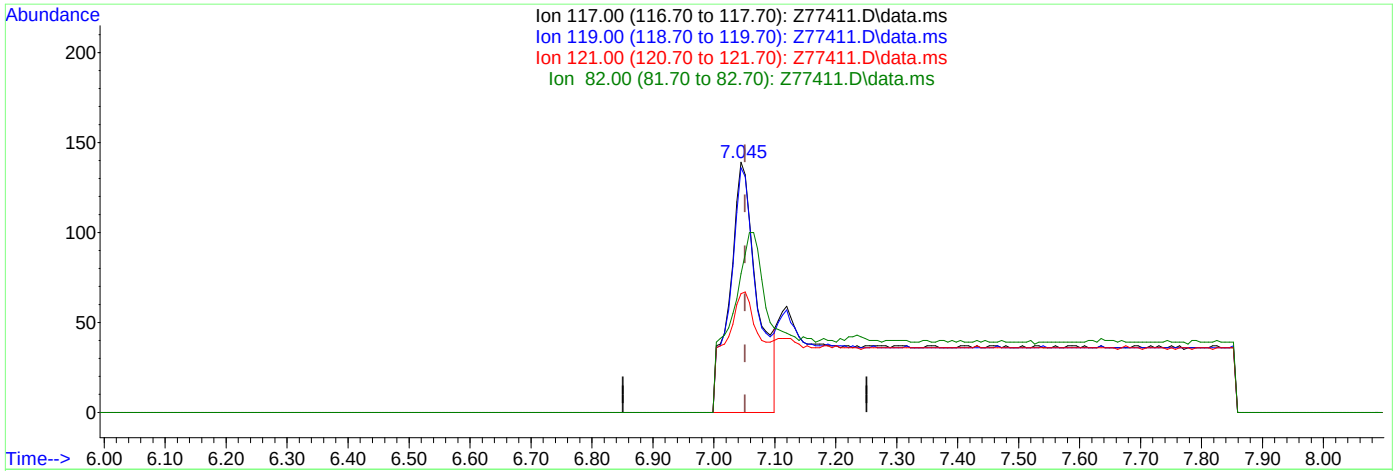
Sample Number: VZ3122-IC3122
Lab FileID: Z77411.D
Injection Time: 12/16/24 10:50
Method: SW846 8260D BY SIM
Analyst approved: 12/16/24 14:45 Samantha Skitowski
Supervisor approved: 12/17/24 10:32 Karen Watson

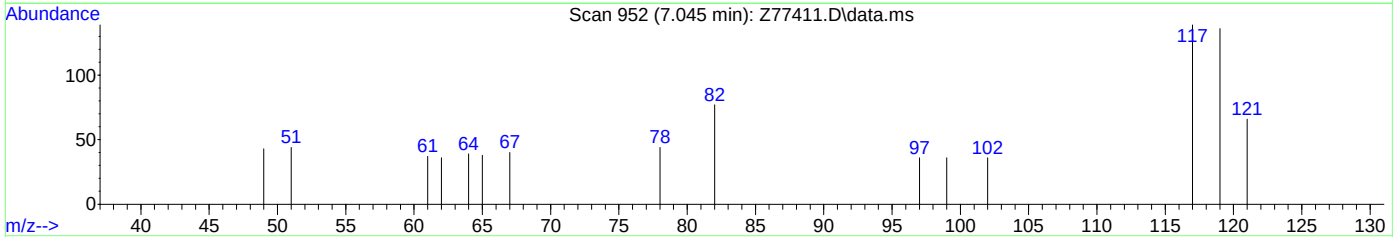
Parameter	CAS	Sig#	R.T. (min.)	Reason
Carbon Tetrachloride	56-23-5		7.04	Poor instrument integration
1,4-Dichlorobenzene	106-46-7		13.35	Missed peak
1,2-Dibromo-3-chloropropane	96-12-8		14.52	Missed peak

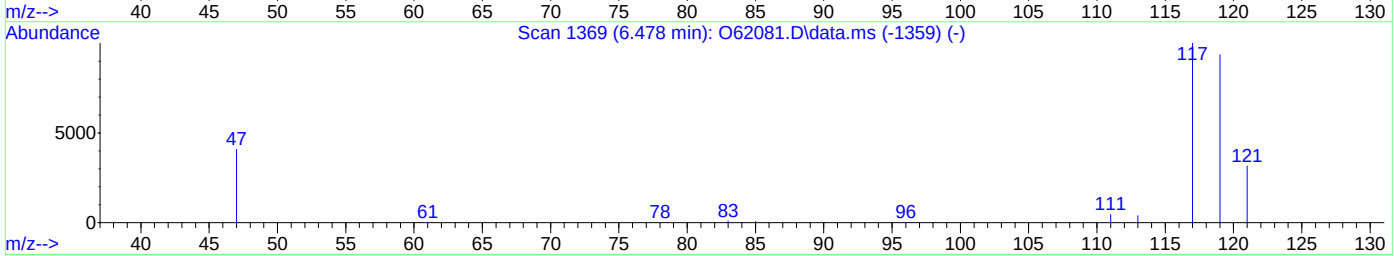
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(10) Carbon Tetrachloride ( )

7.045min (-0.006) 0.16ug/L

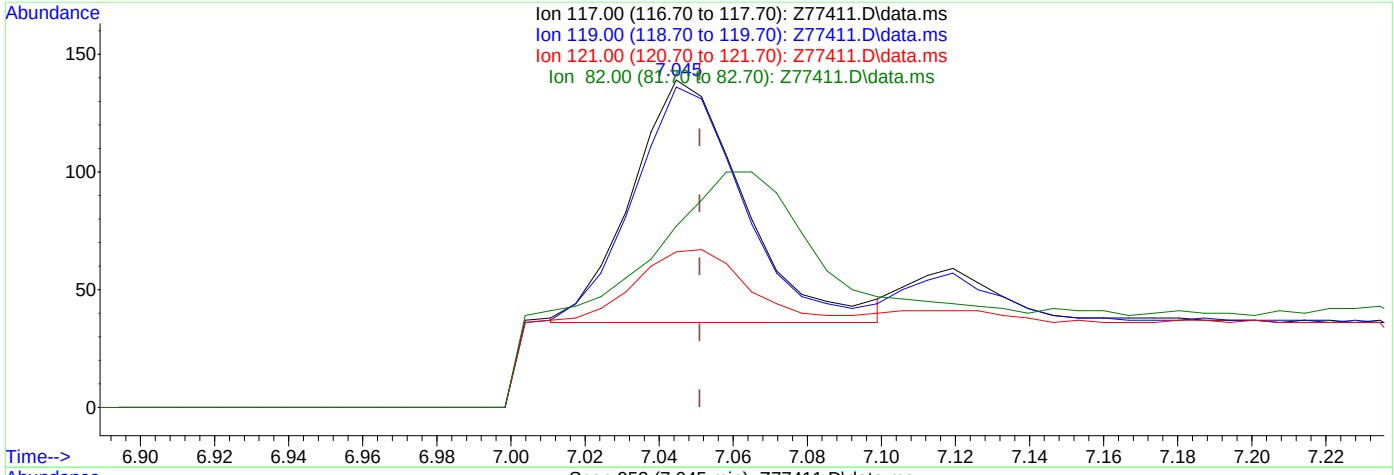
response 428

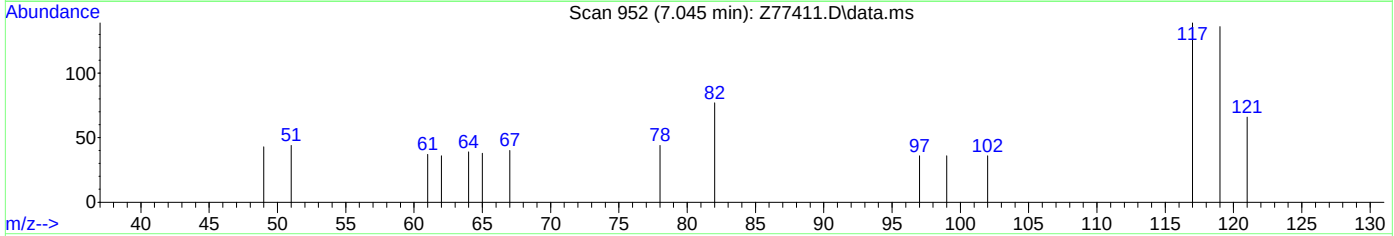
Ion	Exp%	Act%
117.00	100	100
119.00	95.90	97.84
121.00	31.00	47.48
82.00	25.80	55.40

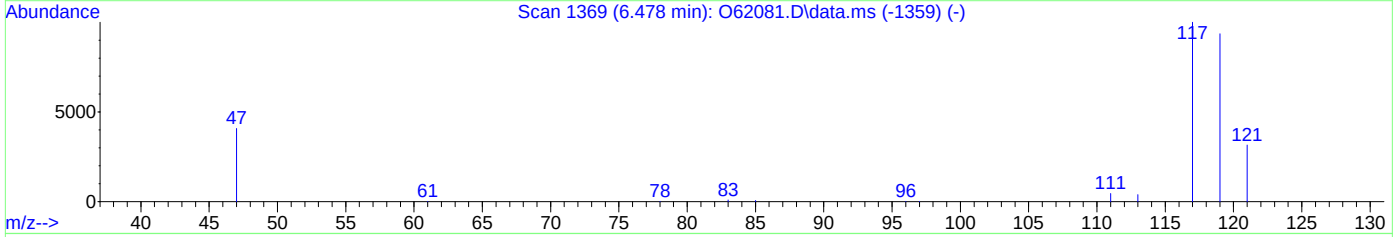
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(10) Carbon Tetrachloride ( )

7.045min (-0.006) 0.08ug/L m

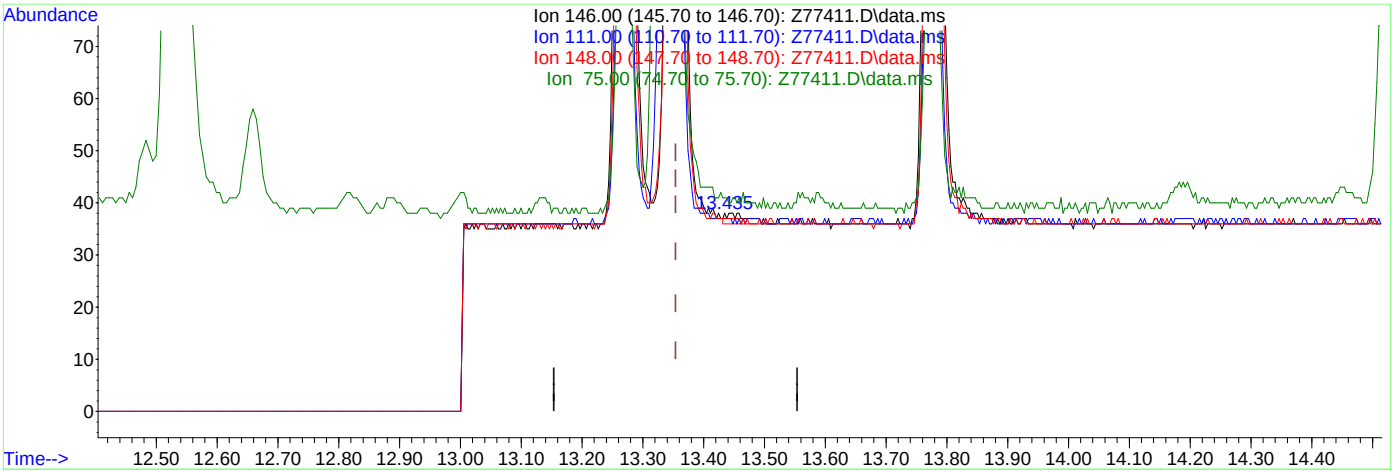
response 217

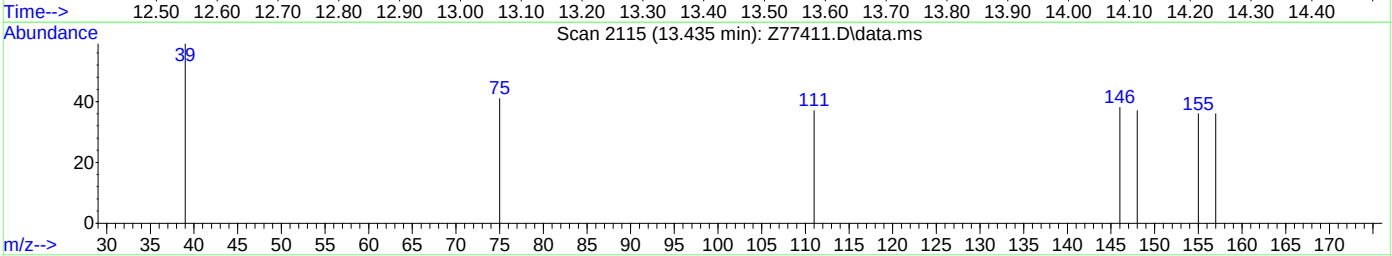
Ion	Exp%	Act%
117.00	100	100
119.00	95.90	97.84
121.00	31.00	47.48
82.00	25.80	55.40

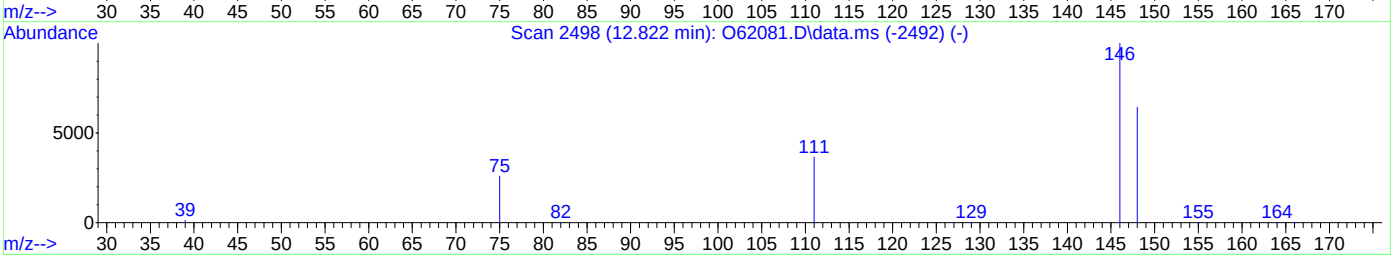
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(22) 1,4-Dichlorobenzene

13.435min (+0.081) 0.00ug/L

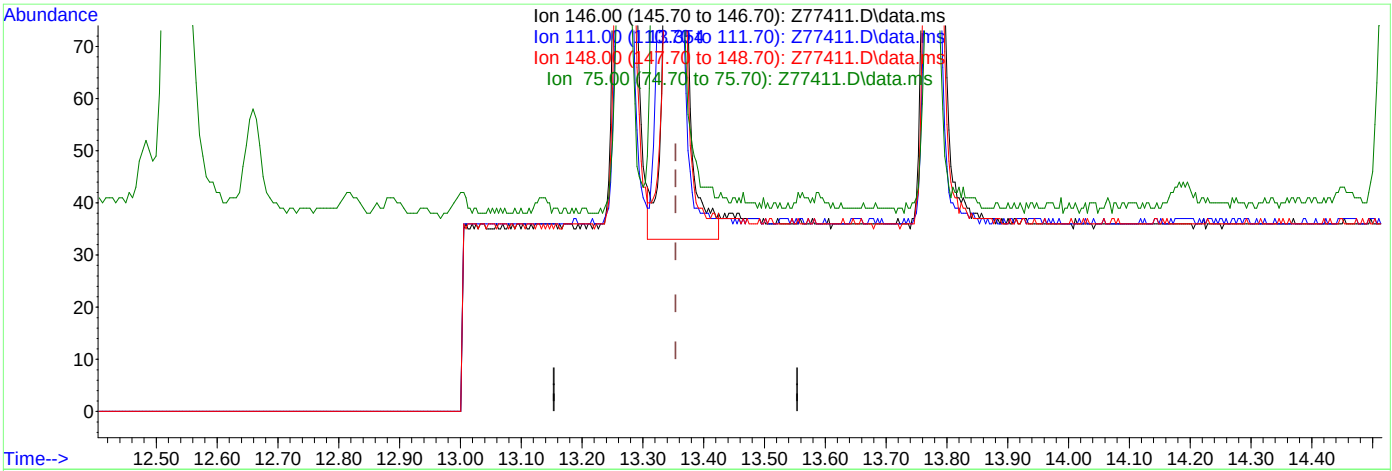
response 5

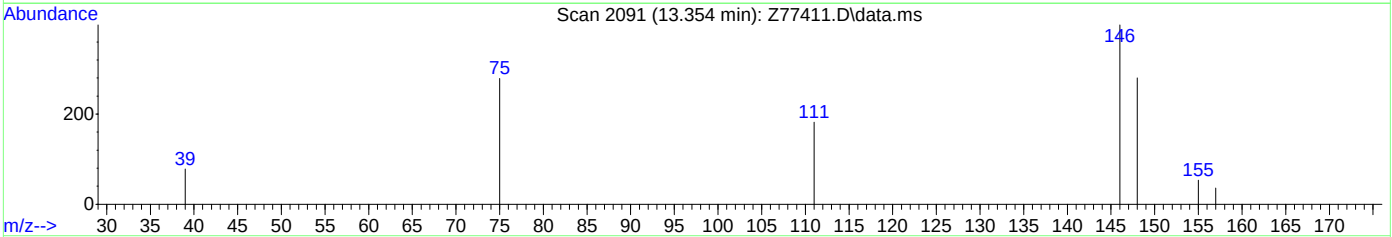
Ion	Exp%	Act%
146.00	100	100
111.00	37.00	50.00
148.00	64.00	50.00
75.00	29.20	50.00

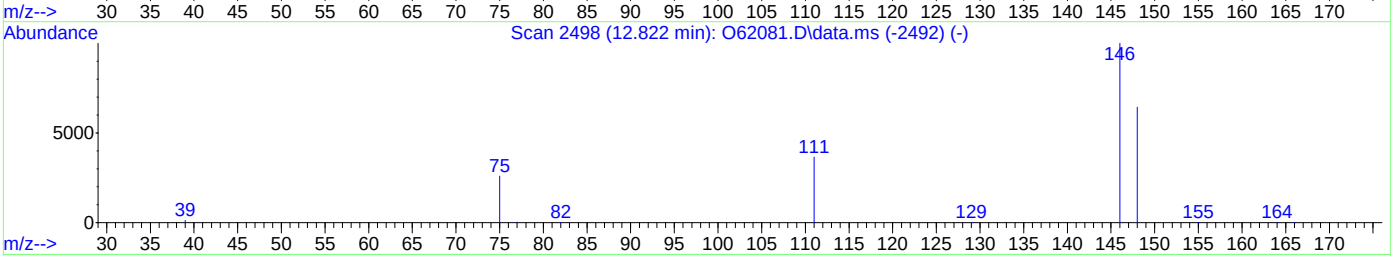
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(22) 1,4-Dichlorobenzene

13.354min (+0.000) 0.18ug/L m

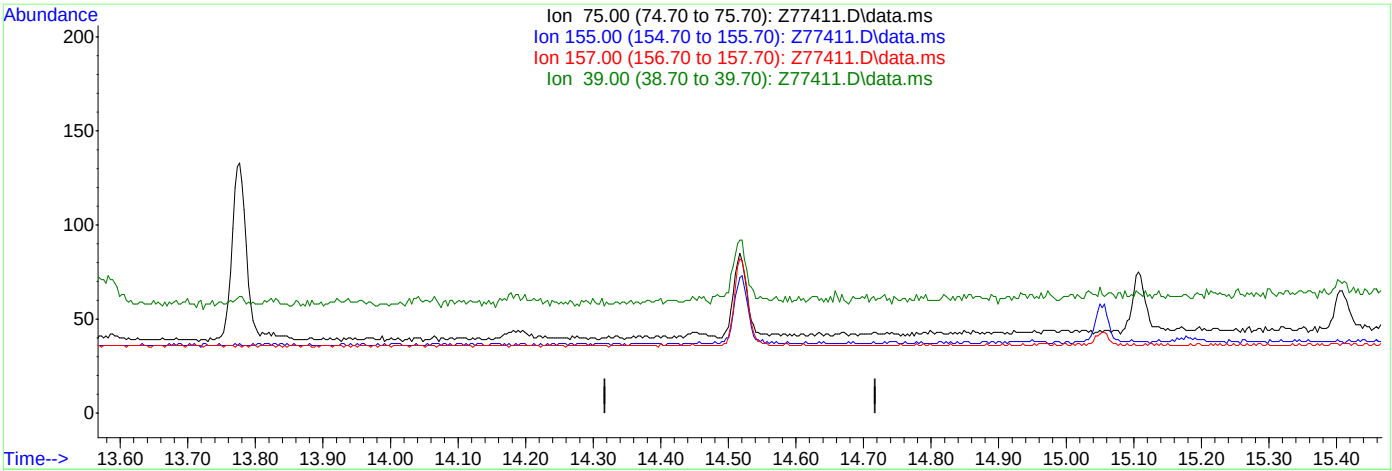
response 573

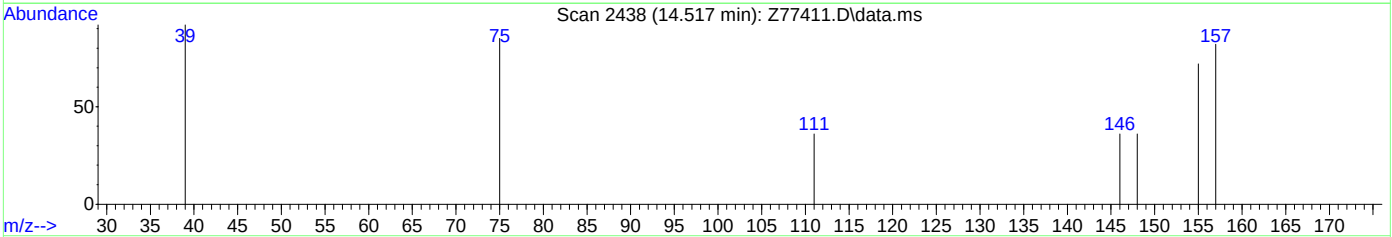
Ion	Exp%	Act%
146.00	100	100
111.00	37.00	45.73
148.00	64.00	70.35
75.00	29.20	70.10#

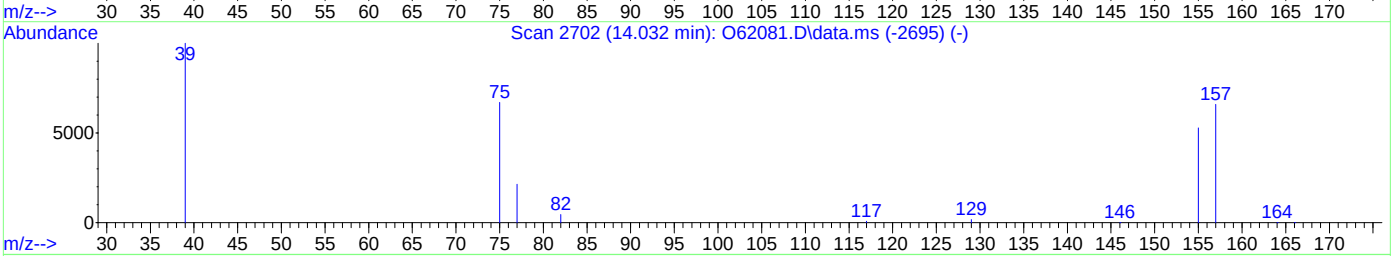
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.517min (-14.517) 0.00ug/L

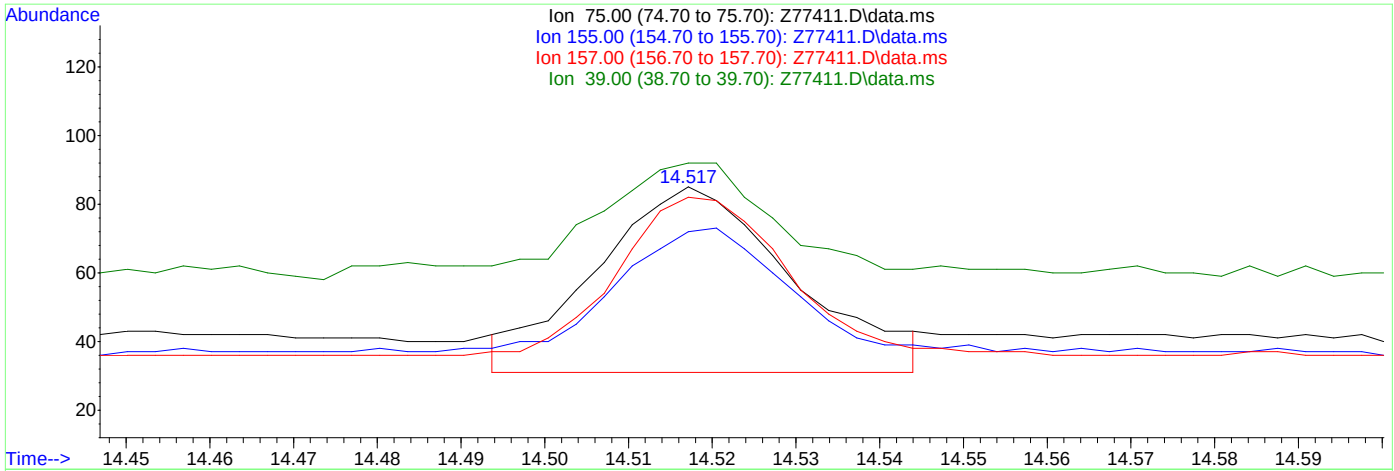
response 0

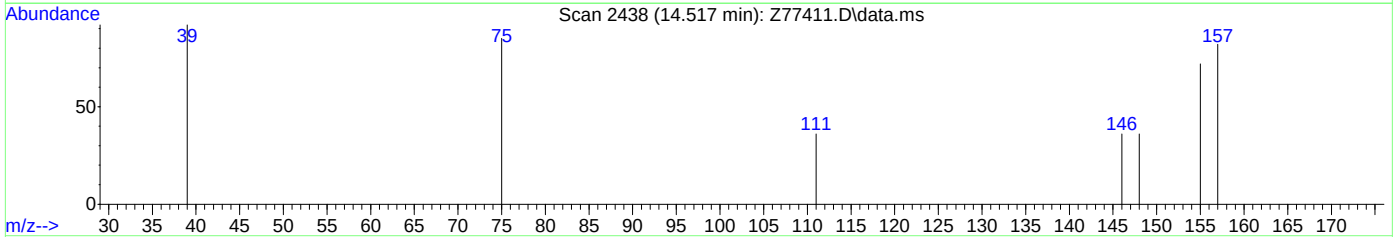
Ion	Exp%	Act%
75.00	100	0.00
155.00	86.80	0.00#
157.00	107.70	0.00#
39.00	69.50	0.00#

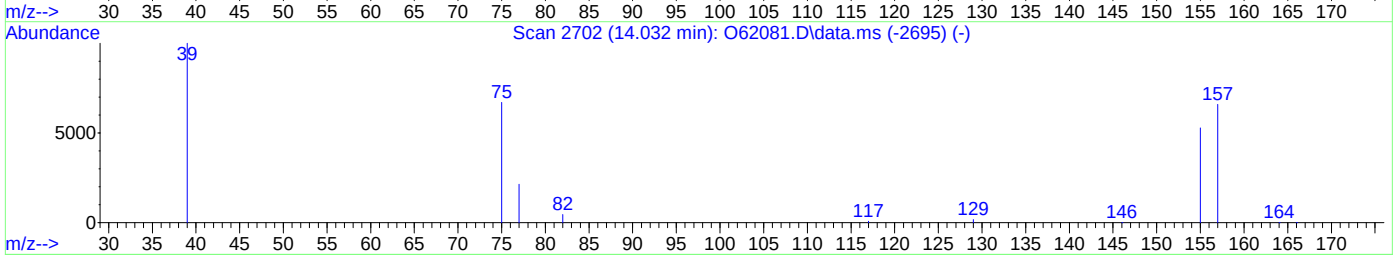
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77411.D
Acq On : 16 Dec 2024 10:50 am
Operator : SAMANTHA
Sample : ic3122-1 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 16 11:34:07 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77411.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.517min (+0.000) 0.29ug/L m

response 88

Ion	Exp%	Act%
75.00	100	100
155.00	86.80	84.71
157.00	107.70	96.47
39.00	69.50	108.24#

Manual Integrations APPROVED (compounds with "m" flag)
Karen Watson 12/17/24 10:32

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77412.D
Acq On : 16 Dec 2024 11:13 am
Operator : SAMANTHA
Sample : ic3122-2 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 16 11:35:29 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

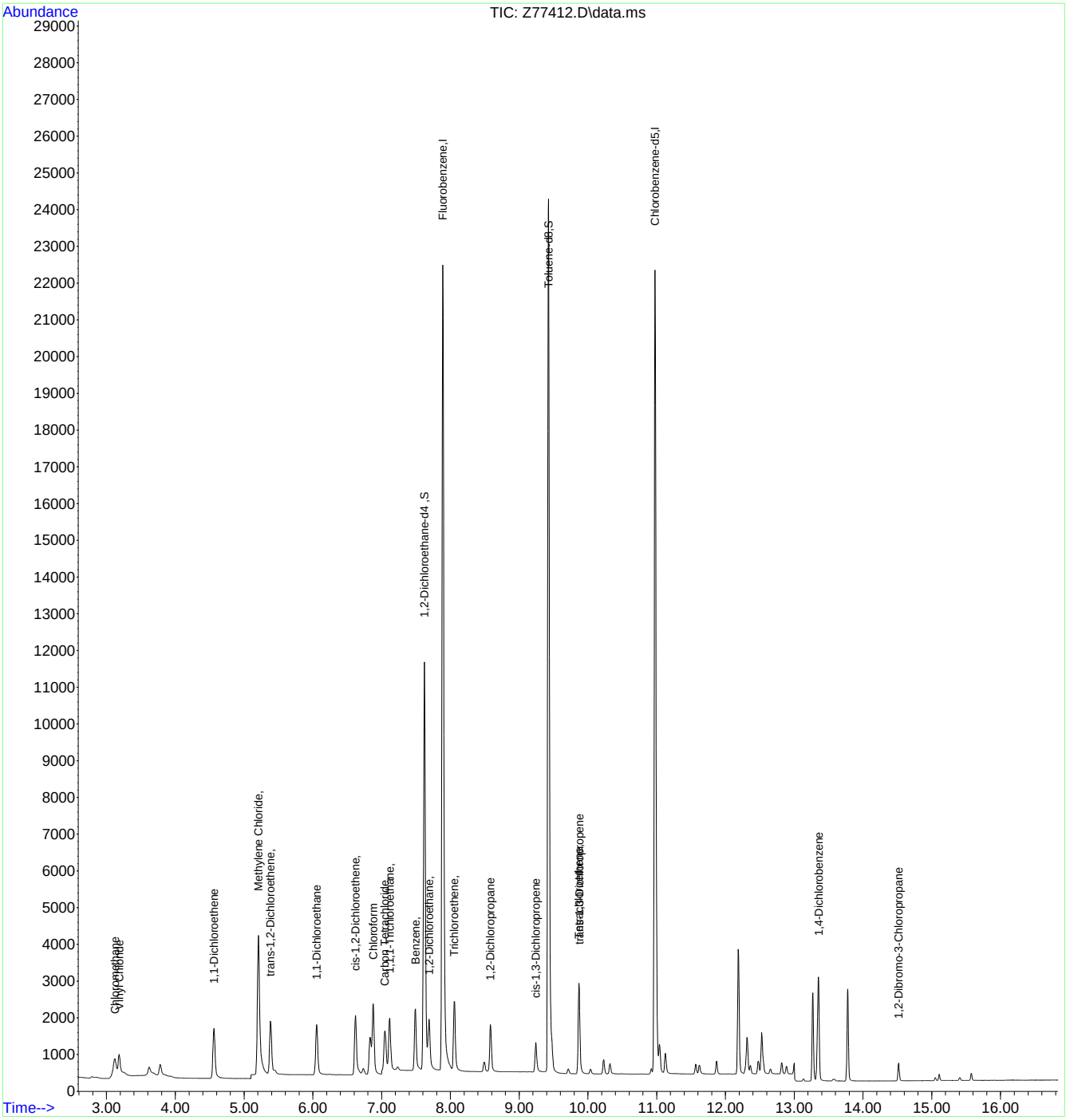
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.889	96	27665	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	23738	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	9808	5.07	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 101.40%			
19) Toluene-d8	9.428	98	25610	6.23	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 124.60%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.184	62	1222	0.33	ug/L	97
3) Chloromethane	3.121	50	1505	0.38	ug/L	98
4) 1,1-Dichloroethene	4.562	61	1254	0.38	ug/L	100
5) Methylene Chloride	5.208	49	3268	0.83	ug/L	99
6) trans-1,2-Dichloroethene	5.384	61	1271	0.38	ug/L	97
7) 1,1-Dichloroethane	6.054	63	1791	0.39	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	1043	0.38	ug/L	97
9) Chloroform	6.878	83	2440	0.48	ug/L	98
10) Carbon Tetrachloride	7.045	117	1057	0.41	ug/L	96
11) 1,1,1-Trichloroethane	7.119	97	1394	0.36	ug/L	98
12) Benzene	7.493	78	2905	0.34	ug/L	99
14) 1,2-Dichloroethane	7.689	62	1267	0.39	ug/L	99
15) Trichloroethene	8.055	95	769	0.35	ug/L	94
16) 1,2-Dichloropropane	8.582	63	781	0.34	ug/L	98
17) cis-1,3-Dichloropropene	9.240	75	865	0.31	ug/L	99
20) trans-1,3-Dichloropropene	9.874	75	797	0.51	ug/L	98
21) Tetrachloroethene	9.869	166	849	0.62	ug/L #	100
22) 1,4-Dichlorobenzene	13.354	146	1659	0.55	ug/L	94
23) 1,2-Dibromo-3-Chloropr...	14.517	75	250m	0.83	ug/L	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77412.D
Acq On : 16 Dec 2024 11:13 am
Operator : SAMANTHA
Sample : ic3122-2 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 16 11:35:29 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Manual Integration Approval Summary

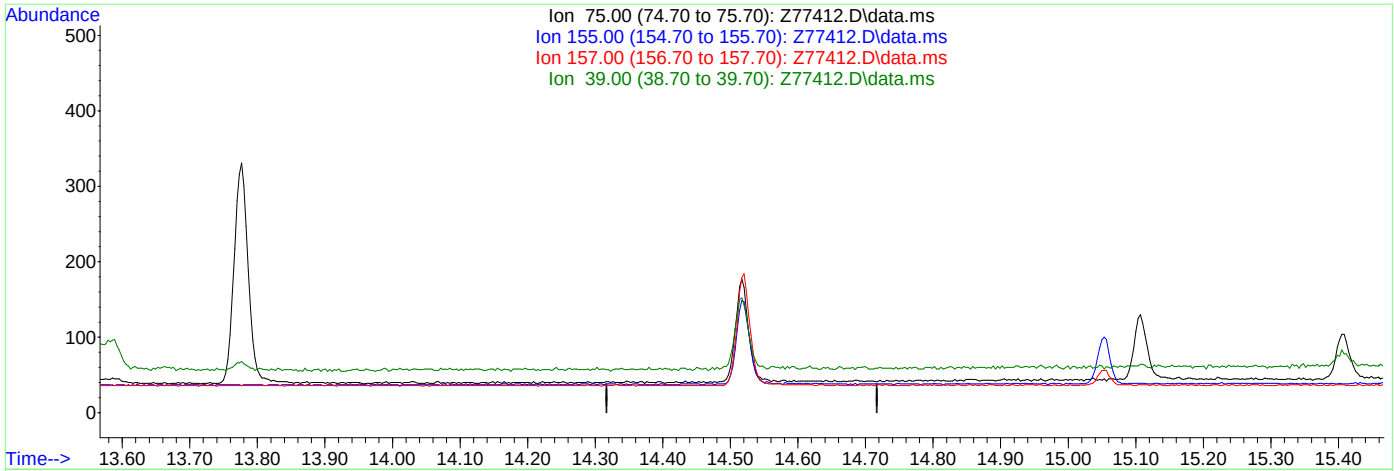
Sample Number: VZ3122-IC3122
Lab FileID: Z77412.D
Injection Time: 12/16/24 11:13
Method: SW846 8260D BY SIM
Analyst approved: 12/16/24 14:45 Samantha Skitowski
Supervisor approved: 12/17/24 10:32 Karen Watson

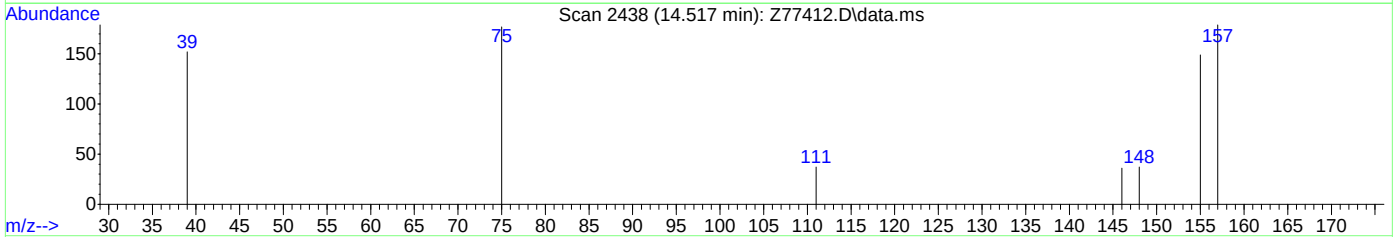
Parameter	CAS	Sig#	R.T. (min.)	Reason
1,2-Dibromo-3-chloropropane	96-12-8		14.52	Missed peak

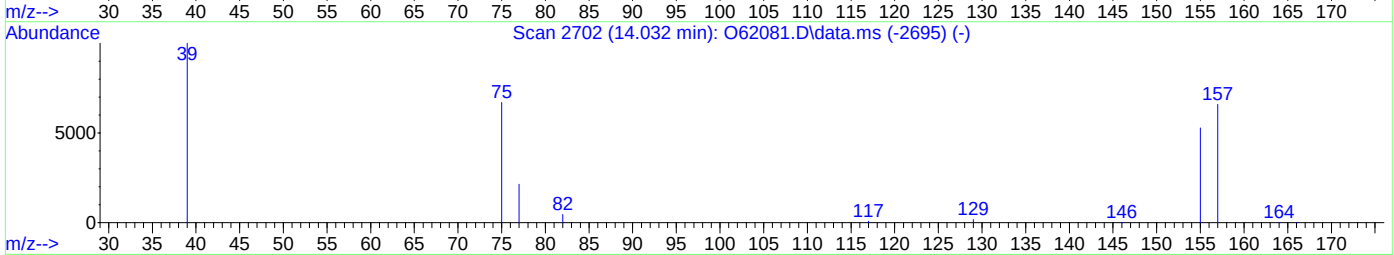
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77412.D
Acq On : 16 Dec 2024 11:13 am
Operator : SAMANTHA
Sample : ic3122-2 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 16 11:34:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77412.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.517min (-14.517) 0.00ug/L

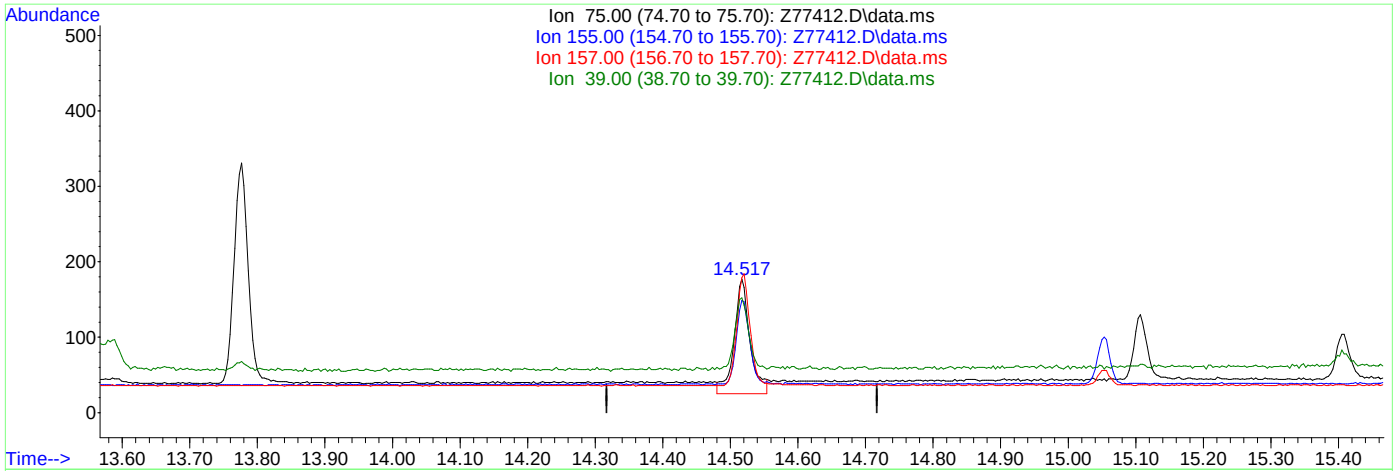
response 0

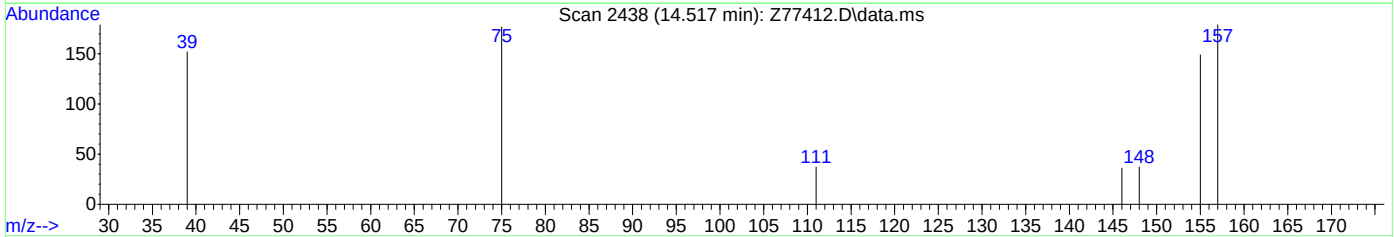
Ion	Exp%	Act%
75.00	100	0.00
155.00	86.80	0.00#
157.00	107.70	0.00#
39.00	69.50	0.00#

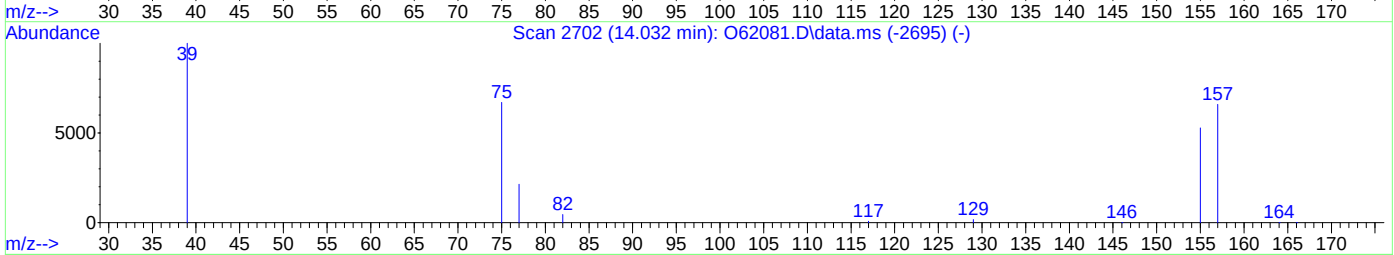
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77412.D
Acq On : 16 Dec 2024 11:13 am
Operator : SAMANTHA
Sample : ic3122-2 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 16 11:34:10 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration







TIC: Z77412.D\data.ms

(23) 1,2-Dibromo-3-Chloropropane

14.517min (+0.000) 0.83ug/L m

response 250

Ion	Exp%	Act%
75.00	100	100
155.00	86.80	84.18
157.00	107.70	101.13
39.00	69.50	85.88

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77413.D
Acq On : 16 Dec 2024 11:36 am
Operator : SAMANTHA
Sample : ic3122-3 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 16 14:04:18 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

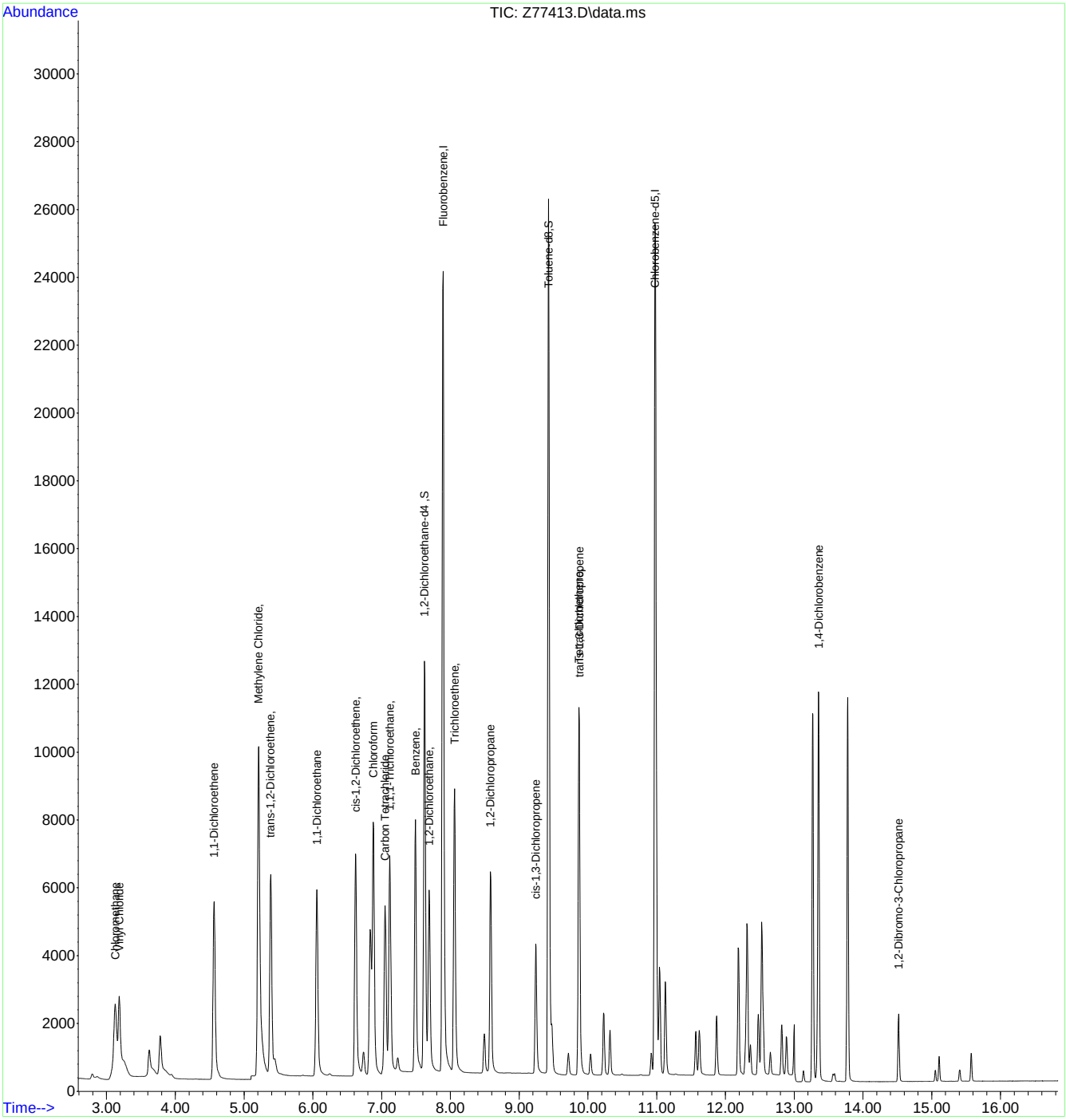
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	30033	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	24830	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	11026	5.25	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 105.00%			
19) Toluene-d8	9.428	98	26888	6.25	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 125.00%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	4874	1.21	ug/L	99
3) Chloromethane	3.125	50	5798	1.33	ug/L	100
4) 1,1-Dichloroethene	4.561	61	4849	1.35	ug/L	99
5) Methylene Chloride	5.208	49	8798	2.07	ug/L	95
6) trans-1,2-Dichloroethene	5.383	61	5118	1.39	ug/L	95
7) 1,1-Dichloroethane	6.059	63	7159	1.45	ug/L	100
8) cis-1,2-Dichloroethene	6.625	96	4172	1.42	ug/L	98
9) Chloroform	6.877	83	8240	1.50	ug/L	98
10) Carbon Tetrachloride	7.051	117	3957	1.41	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	5556	1.34	ug/L	99
12) Benzene	7.492	78	12335	1.34	ug/L	100
14) 1,2-Dichloroethane	7.689	62	5347	1.51	ug/L	99
15) Trichloroethene	8.060	95	3239	1.38	ug/L	100
16) 1,2-Dichloropropane	8.582	63	3537	1.44	ug/L	98
17) cis-1,3-Dichloropropene	9.240	75	3951	1.32	ug/L	99
20) trans-1,3-Dichloropropene	9.874	75	3733	2.23	ug/L	99
21) Tetrachloroethene	9.869	166	3400	2.37	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	7261	2.28	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	732	2.33	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77413.D
Acq On : 16 Dec 2024 11:36 am
Operator : SAMANTHA
Sample : ic3122-3 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 16 14:04:18 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77414.D
Acq On : 16 Dec 2024 11:59 am
Operator : SAMANTHA
Sample : icc3122-4 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 16 14:04:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

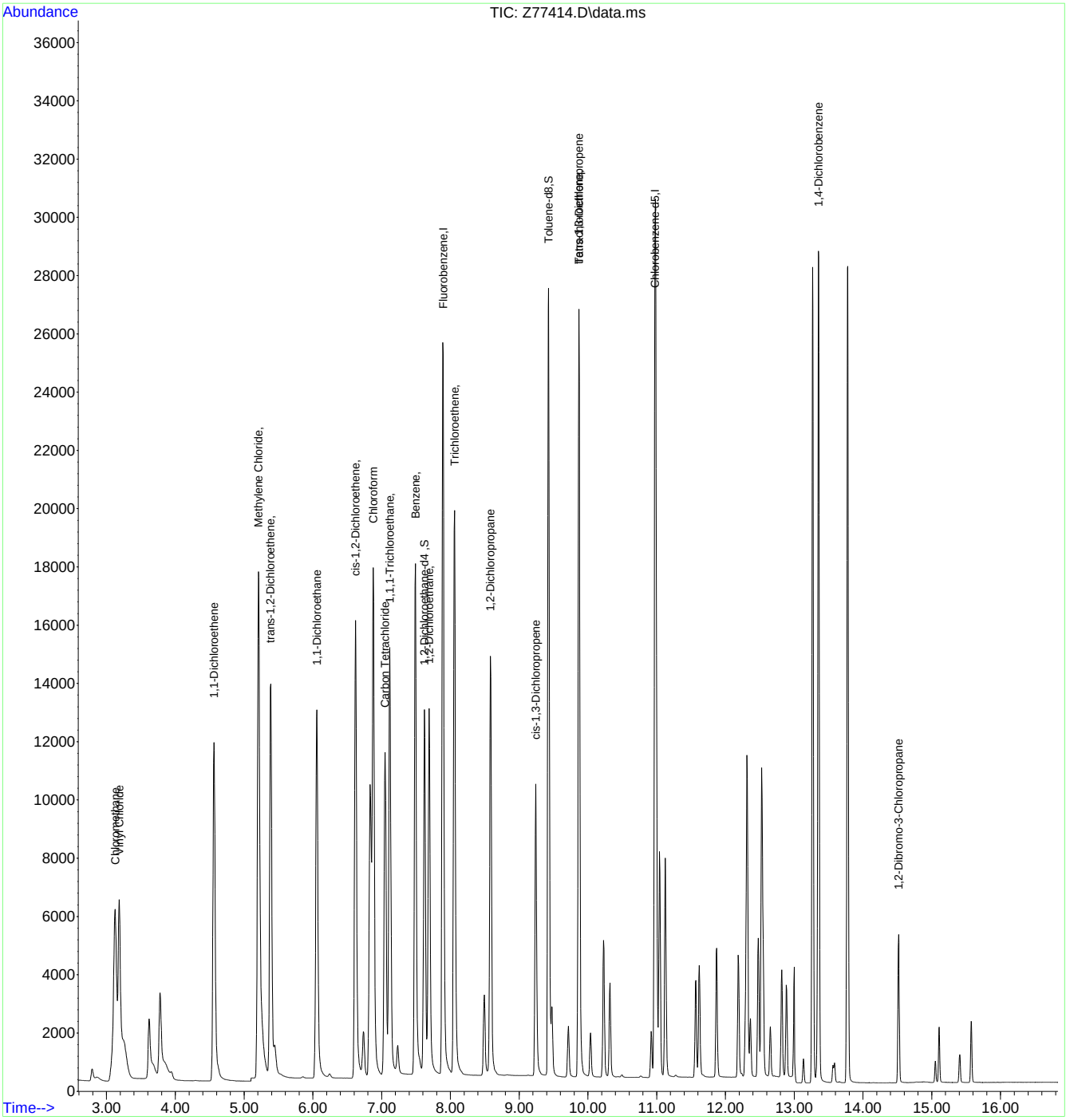
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.894	96	31791	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	25958	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10543	4.74	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 94.80%			
19) Toluene-d8	9.428	98	27999	6.23	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 124.60%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	12947	3.04	ug/L	100
3) Chloromethane	3.125	50	15267	3.32	ug/L	100
4) 1,1-Dichloroethene	4.561	61	10725	2.81	ug/L	99
5) Methylene Chloride	5.208	49	15893	3.53	ug/L	96
6) trans-1,2-Dichloroethene	5.383	61	11705	3.01	ug/L	96
7) 1,1-Dichloroethane	6.059	63	16464	3.15	ug/L	100
8) cis-1,2-Dichloroethene	6.619	96	9513	3.05	ug/L	95
9) Chloroform	6.877	83	18404	3.20	ug/L	98
10) Carbon Tetrachloride	7.051	117	8757	2.95	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	12550	2.85	ug/L	99
12) Benzene	7.492	78	29298	3.02	ug/L	99
14) 1,2-Dichloroethane	7.689	62	12614	3.37	ug/L	99
15) Trichloroethene	8.060	95	7515	3.02	ug/L	98
16) 1,2-Dichloropropane	8.582	63	8471	3.25	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	9817	3.09	ug/L	99
20) trans-1,3-Dichloropropene	9.869	75	9572	5.25	ug/L	98
21) Tetrachloroethene	9.869	166	7590	5.05	ug/L #	99
22) 1,4-Dichlorobenzene	13.351	146	17904	5.39	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1862	5.66	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77414.D
Acq On : 16 Dec 2024 11:59 am
Operator : SAMANTHA
Sample : icc3122-4 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 16 14:04:21 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77415.D
Acq On : 16 Dec 2024 12:22 pm
Operator : SAMANTHA
Sample : ic3122-5 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 16 14:04:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

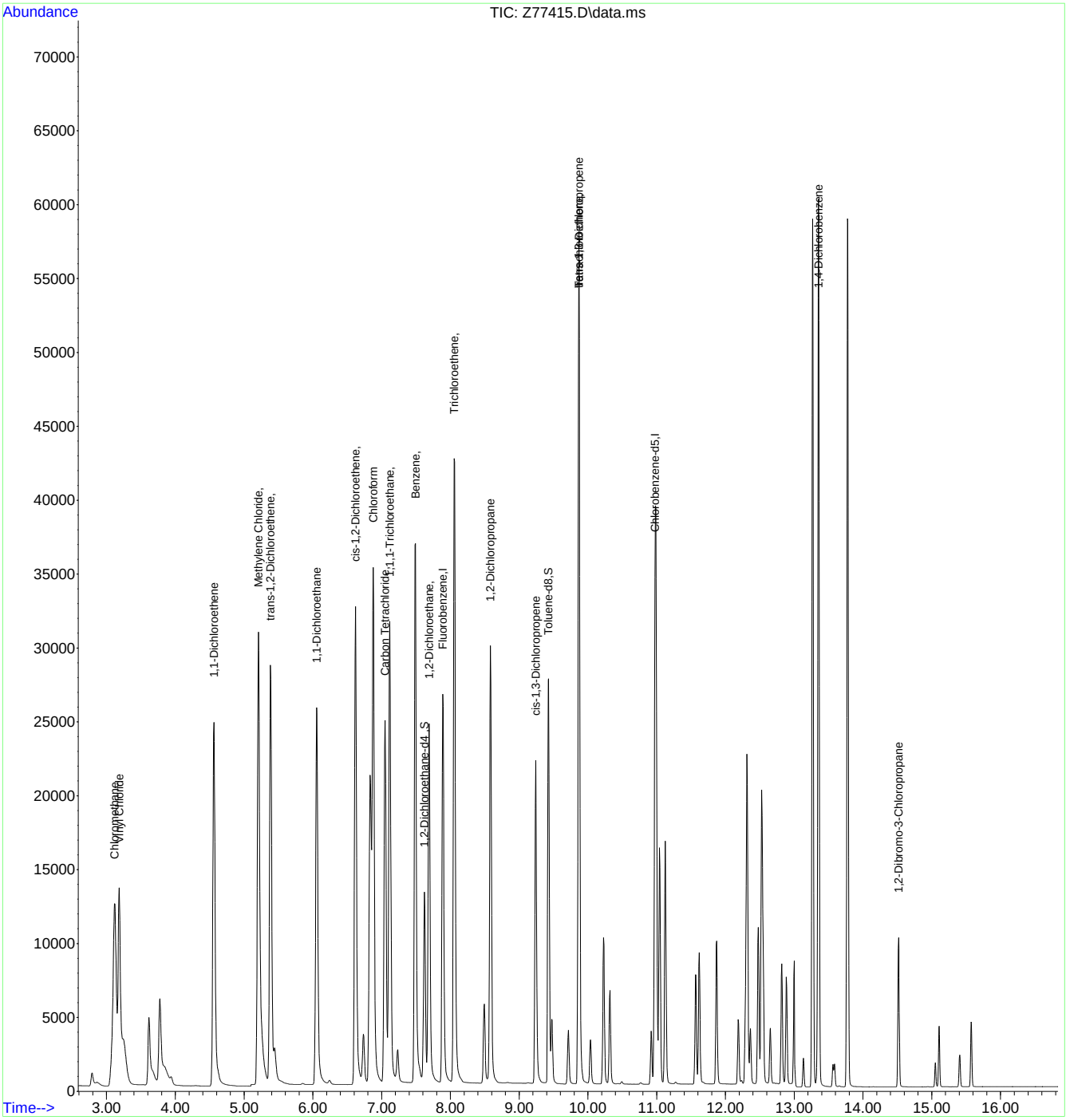
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.889	96	33010	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	26534	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10874	4.71	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 94.20%			
19) Toluene-d8	9.423	98	28348	6.17	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 123.40%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	28367	6.42	ug/L	100
3) Chloromethane	3.116	50	32756	6.86	ug/L	100
4) 1,1-Dichloroethene	4.561	61	22679	5.73	ug/L	100
5) Methylene Chloride	5.208	49	27543	5.89	ug/L	97
6) trans-1,2-Dichloroethene	5.383	61	24311	6.03	ug/L	98
7) 1,1-Dichloroethane	6.054	63	33178	6.11	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	19316	5.97	ug/L	96
9) Chloroform	6.877	83	36415	6.18	ug/L	99
10) Carbon Tetrachloride	7.051	117	19113	6.20	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	26700	5.84	ug/L	98
12) Benzene	7.492	78	61454	6.09	ug/L	99
14) 1,2-Dichloroethane	7.689	62	24418	6.28	ug/L	99
15) Trichloroethene	8.055	95	16193	6.26	ug/L	96
16) 1,2-Dichloropropane	8.582	63	17493	6.47	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	21116	6.40	ug/L	98
20) trans-1,3-Dichloropropene	9.869	75	20449	10.30	ug/L	99
21) Tetrachloroethene	9.869	166	16133	10.51	ug/L #	100
22) 1,4-Dichlorobenzene	13.351	146	37393	11.01	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	3585	10.66	ug/L	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77415.D
Acq On : 16 Dec 2024 12:22 pm
Operator : SAMANTHA
Sample : ic3122-5 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 16 14:04:23 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77416.D
Acq On : 16 Dec 2024 12:44 pm
Operator : SAMANTHA
Sample : ic3122-6 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 16 14:04:25 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

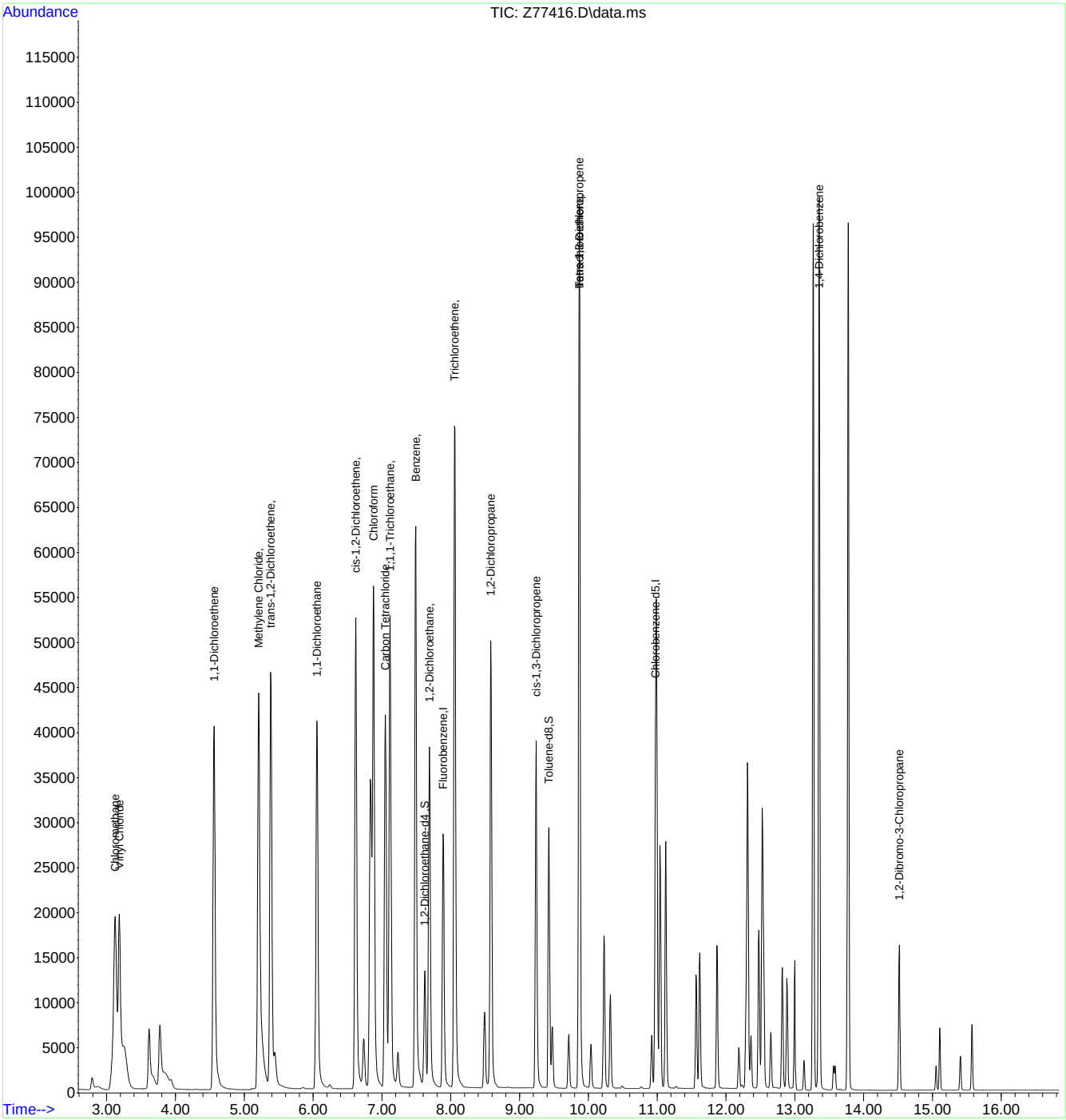
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.889	96	34866	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	27248	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10737	4.40	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 88.00%			
19) Toluene-d8	9.423	98	29613	6.27	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 125.40%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.183	62	43711	9.37	ug/L	100
3) Chloromethane	3.120	50	49364	9.78	ug/L	100
4) 1,1-Dichloroethene	4.561	61	36967	8.84	ug/L	99
5) Methylene Chloride	5.208	49	41059	8.32	ug/L	97
6) trans-1,2-Dichloroethene	5.383	61	39282	9.22	ug/L	98
7) 1,1-Dichloroethane	6.054	63	52648	9.18	ug/L	99
8) cis-1,2-Dichloroethene	6.619	96	31043	9.08	ug/L	96
9) Chloroform	6.877	83	57350	9.35	ug/L	98
10) Carbon Tetrachloride	7.051	117	32137	9.87	ug/L	98
11) 1,1,1-Trichloroethane	7.119	97	44169	9.14	ug/L	98
12) Benzene	7.492	78	102394	9.61	ug/L	99
14) 1,2-Dichloroethane	7.689	62	37953	9.24	ug/L	99
15) Trichloroethene	8.055	95	27916	10.22	ug/L	96
16) 1,2-Dichloropropane	8.582	63	29054	10.17	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	36628	10.51	ug/L	98
20) trans-1,3-Dichloropropene	9.869	75	34730	15.93	ug/L	99
21) Tetrachloroethene	9.869	166	26897	17.06	ug/L #	100
22) 1,4-Dichlorobenzene	13.351	146	61029	17.49	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	5606	16.23	ug/L	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77416.D
Acq On : 16 Dec 2024 12:44 pm
Operator : SAMANTHA
Sample : ic3122-6 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 16 14:04:25 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77417.D
Acq On : 16 Dec 2024 1:07 pm
Operator : SAMANTHA
Sample : ic3122-7 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 16 14:04:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration

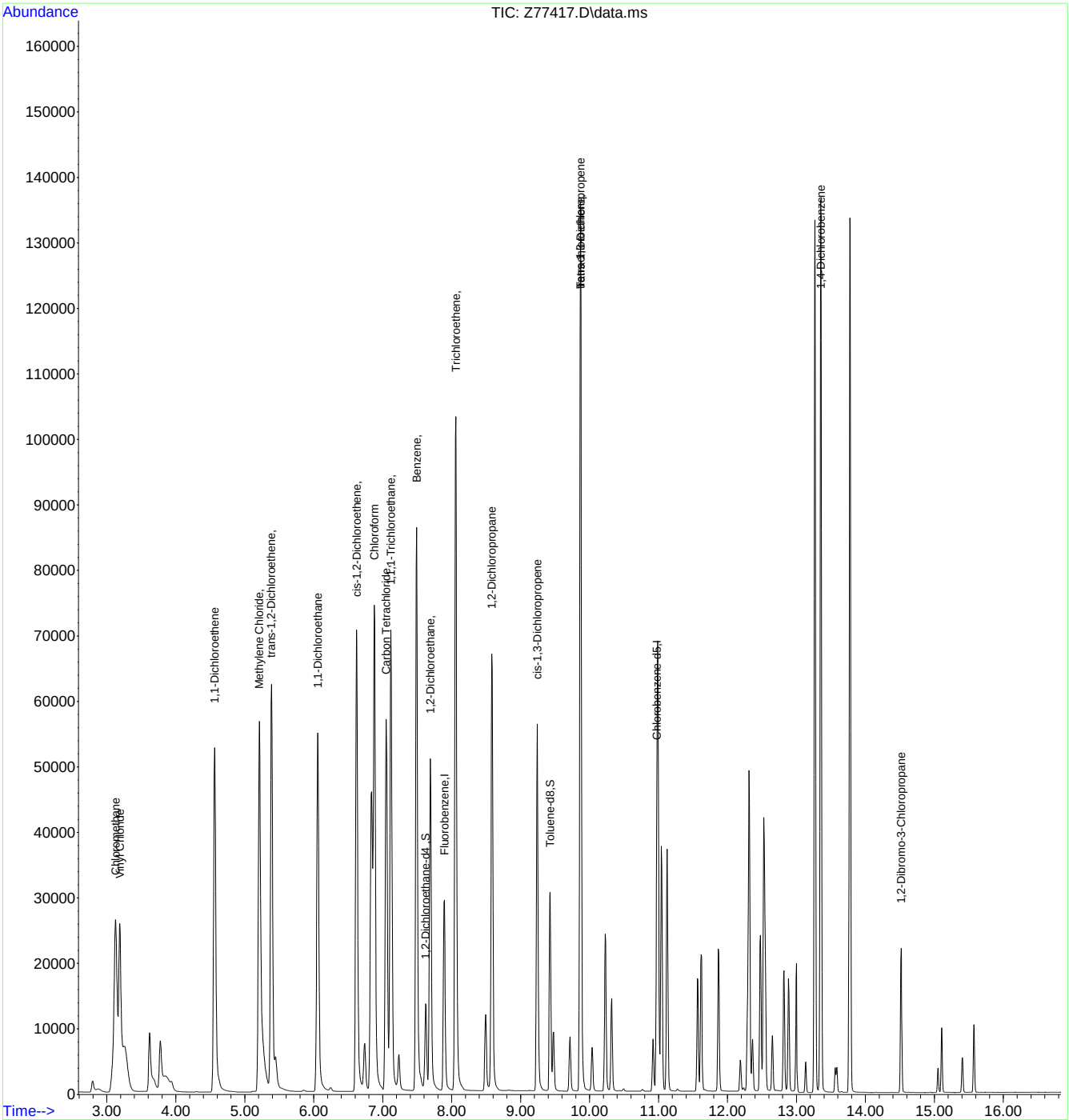
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	36549	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	27857	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	11026	4.31	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 86.20%			
19) Toluene-d8	9.428	98	30744	6.37	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 127.40%#			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	60363	12.34	ug/L	100
3) Chloromethane	3.125	50	67094	12.68	ug/L	100
4) 1,1-Dichloroethene	4.561	61	48098	10.97	ug/L	99
5) Methylene Chloride	5.208	49	53604	10.36	ug/L	95
6) trans-1,2-Dichloroethene	5.384	61	52246	11.70	ug/L	95
7) 1,1-Dichloroethane	6.059	63	70058	11.65	ug/L	100
8) cis-1,2-Dichloroethene	6.625	96	42103	11.75	ug/L	98
9) Chloroform	6.878	83	76649	12.08	ug/L	98
10) Carbon Tetrachloride	7.051	117	43299	12.69	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	59141	11.68	ug/L	99
12) Benzene	7.492	78	139971	12.53	ug/L	99
14) 1,2-Dichloroethane	7.689	62	50673	11.77	ug/L	100
15) Trichloroethene	8.061	95	38605	13.49	ug/L	97
16) 1,2-Dichloropropane	8.582	63	40291	13.46	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	52840	14.46	ug/L	98
20) trans-1,3-Dichloropropene	9.869	75	49453	20.98	ug/L	99
21) Tetrachloroethene	9.869	166	36636	22.73	ug/L #	100
22) 1,4-Dichlorobenzene	13.351	146	84162	23.59	ug/L	99
23) 1,2-Dibromo-3-Chloropr...	14.517	75	7675	21.73	ug/L	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77417.D
Acq On : 16 Dec 2024 1:07 pm
Operator : SAMANTHA
Sample : ic3122-7 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 16 14:04:27 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Thu Dec 12 10:39:20 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77419.D
Acq On : 16 Dec 2024 1:53 pm
Operator : SAMANTHA
Sample : icv3122-4 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 16 14:10:52 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

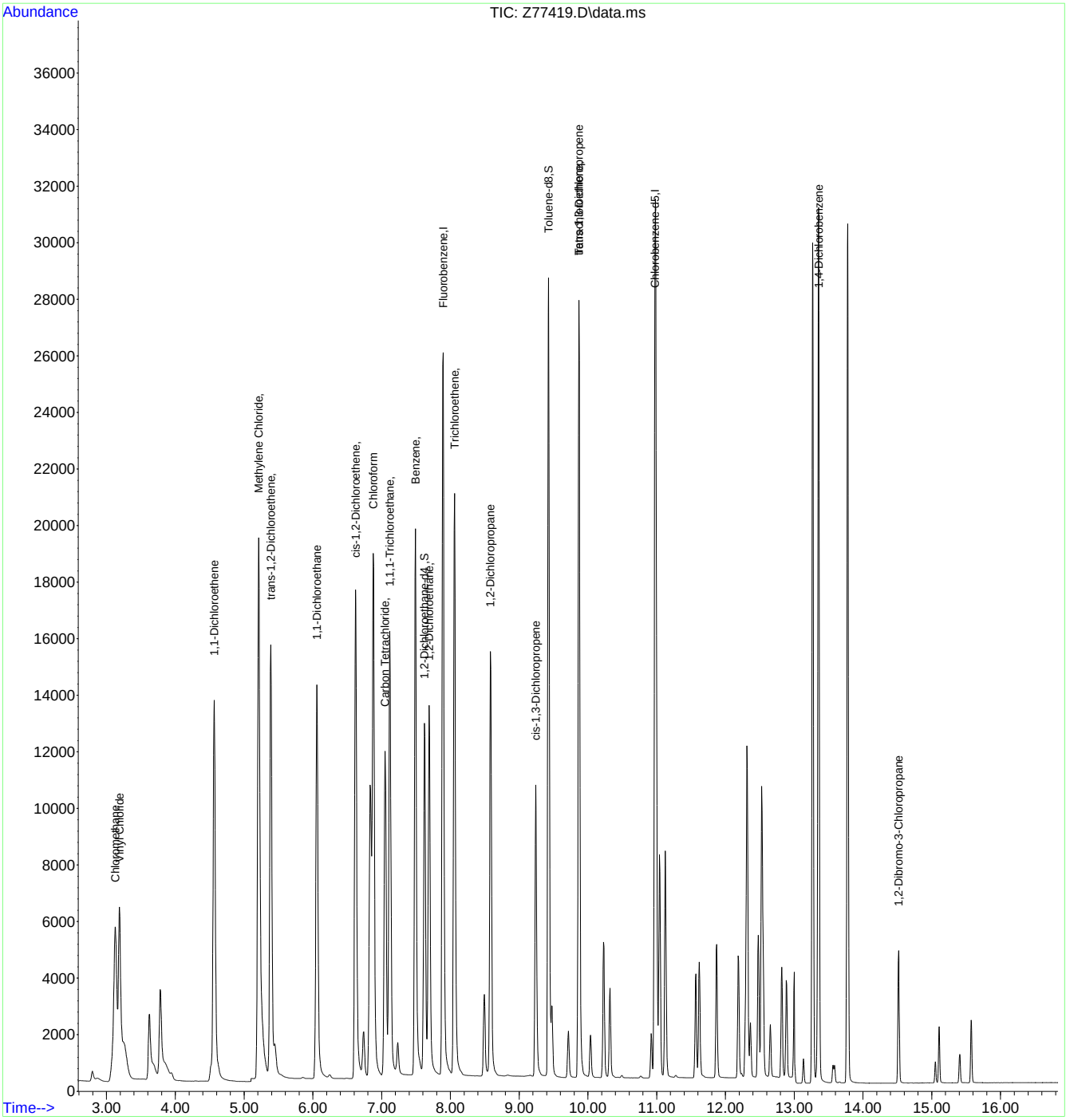
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	32566	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	26815	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10770	4.96	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 99.20%			
19) Toluene-d8	9.428	98	29072	4.99	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 99.80%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.188	62	12962	4.68	ug/L	99
3) Chloromethane	3.125	50	14178	4.34	ug/L	100
4) 1,1-Dichloroethene	4.566	61	12332	5.26	ug/L	98
5) Methylene Chloride	5.213	49	17166	5.58	ug/L	96
6) trans-1,2-Dichloroethene	5.389	61	13055	5.24	ug/L	96
7) 1,1-Dichloroethane	6.059	63	17854	5.21	ug/L	99
8) cis-1,2-Dichloroethene	6.625	96	10790	5.48	ug/L	93
9) Chloroform	6.878	83	19674	5.19	ug/L	99
10) Carbon Tetrachloride	7.051	117	9083	4.66	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	13399	4.95	ug/L	100
12) Benzene	7.493	78	31591	5.06	ug/L	100
14) 1,2-Dichloroethane	7.689	62	13167	5.17	ug/L	100
15) Trichloroethene	8.061	95	7991	4.99	ug/L	99
16) 1,2-Dichloropropane	8.582	63	8950	5.12	ug/L	99
17) cis-1,3-Dichloropropene	9.240	75	10165	5.03	ug/L	99
20) trans-1,3-Dichloropropene	9.869	75	9705	4.93	ug/L	100
21) Tetrachloroethene	9.869	166	8044	4.95	ug/L #	99
22) 1,4-Dichlorobenzene	13.354	146	19346	5.18	ug/L	98
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1701	4.60	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77419.D
Acq On : 16 Dec 2024 1:53 pm
Operator : SAMANTHA
Sample : icv3122-4 Inst : MSVOA15-Z
Misc : MS58132,VZ3122,,,,,
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 16 14:10:52 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77432.D
Acq On : 16 Dec 2024 6:50 pm
Operator : SAMANTHA
Sample : ECC3122-4 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 08:49:46 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration

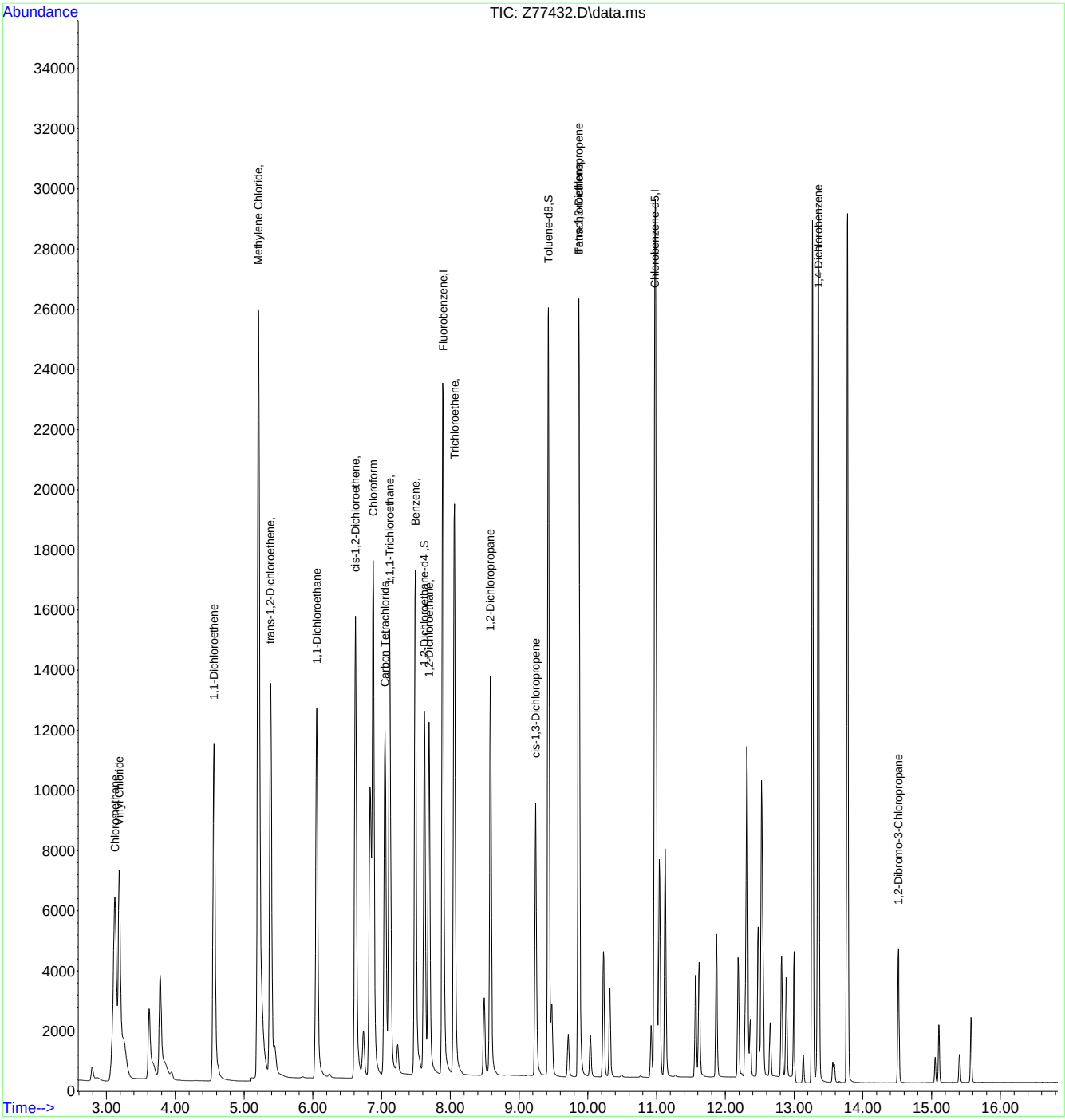
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Fluorobenzene	7.895	96	29339	5.00	ug/L	0.00
18) Chlorobenzene-d5	10.975	117	24720	5.00	ug/L	0.00
System Monitoring Compounds						
13) 1,2-Dichloroethane-d4	7.621	65	10327	5.28	ug/L	0.00
Spiked Amount 5.000	Range 74 - 125		Recovery = 105.60%			
19) Toluene-d8	9.428	98	26645	4.97	ug/L	0.00
Spiked Amount 5.000	Range 88 - 111		Recovery = 99.40%			
Target Compounds						Qvalue
2) Vinyl Chloride	3.184	62	14036	5.62	ug/L	100
3) Chloromethane	3.120	50	15951	5.45	ug/L	100
4) 1,1-Dichloroethene	4.561	61	10397	4.92	ug/L	100
5) Methylene Chloride	5.208	49	22777	8.65	ug/L	100
6) trans-1,2-Dichloroethene	5.384	61	11363	5.06	ug/L	100
7) 1,1-Dichloroethane	6.059	63	15997	5.18	ug/L	100
8) cis-1,2-Dichloroethene	6.619	96	9268	5.22	ug/L	99
9) Chloroform	6.878	83	17982	5.27	ug/L	100
10) Carbon Tetrachloride	7.051	117	8932	5.09	ug/L	99
11) 1,1,1-Trichloroethane	7.119	97	12704	5.21	ug/L	100
12) Benzene	7.493	78	27718	4.93	ug/L	100
14) 1,2-Dichloroethane	7.689	62	11784	5.13	ug/L	99
15) Trichloroethene	8.061	95	7355	5.10	ug/L	100
16) 1,2-Dichloropropane	8.582	63	7825	4.97	ug/L	100
17) cis-1,3-Dichloropropene	9.240	75	8887	4.89	ug/L	100
20) trans-1,3-Dichloropropene	9.869	75	8651	4.77	ug/L	99
21) Tetrachloroethene	9.869	166	7848	5.23	ug/L #	99
22) 1,4-Dichlorobenzene	13.351	146	18324	5.32	ug/L	100
23) 1,2-Dibromo-3-Chloropr...	14.517	75	1616	4.74	ug/L	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\121624\
Data File : Z77432.D
Acq On : 16 Dec 2024 6:50 pm
Operator : SAMANTHA
Sample : ECC3122-4 Inst : MSVOA15-Z
Misc : MS58155,VZ3122,,,,,
ALS Vial : 23 Sample Multiplier: 1

Quant Time: Dec 17 08:49:46 2024
Quant Method : C:\msdchem\1\methods\SIMCL-12-16-2024.M
Quant Title : SW-846 Method 5030/8260D SIM
QLast Update : Mon Dec 16 14:10:38 2024
Response via : Initial Calibration



SGS -ORLANDO

VOA-GCMS ANALYSIS LOG

Instrument:	MSVOA15-Z
Date:	12/16/2024
Analyst:	samantha
Column Type	RTXVMS
Detector	5975C-MSD
Purge Pressure	
Purge Volume	5ml

Method(s):	8260SIMCL
Method File:	SIMCL-12-16-2024.M
Calibration Date:	12/16/2024
Acq. Method:	ACQ_SIMCLB.M
EM Voltage:	1176
Run ID:	**VZ3122**

BFB:	VS4150
ICAL/CC:	, VS4400, VS4442
ICV/BS:	, vs4401, VS4443
ISTD/Surr.:	VS4406

pH Paper Lot#:	230320A
KI Paper Lot#:	n/a
AFA Lot#:	n/a
Data processed by:	samantha
Sample ID Ver. by:	samantha
Date Verified:	12/16/2024 0:00

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)
Z77410	BFB	-	-	W	1	-	-	-	-	10.5 µl- 40 ml; passed
Z77411	ic3122-1	-	-	W	2	-	-	-	-	1µl- 100 ml ; #10 (PII), #22, 23(MP)
Z77412	ic3122-2	-	-	W	3	-	-	-	-	5µl- 100 ml ; #23 (MP)
Z77413	ic3122-3	-	-	W	4	-	-	-	-	10µl- 50 ml
Z77414	icc3122-4	-	-	W	5	-	-	-	-	25µl- 50 ml
Z77415	ic3122-5	-	-	W	6	-	-	-	-	50µl- 50 ml
Z77416	ic3122-6	-	-	W	7	-	-	-	-	75µl- 50 ml
Z77417	ic3122-7	-	-	W	8	-	-	-	-	100µl- 50 ml
Z77418	rinse	-	-	W	9	-	-	-	-	
Z77419	icv3122-4	-	-	W	10	-	-	-	-	25µl- 50 ml
Z77420	bs	-	-	W	11	-	-	-	-	25µl- 50 ml
Z77421	rinse	-	-	W	12	-	-	-	-	
Z77422	MB	-	-	W	13	-	-	-	-	Pass
Z77423	FC21167-1	1X	1	W	14	MS58155	1	N	-	✓
Z77424	FC21036-3	1X	2	W	15	MS58155	1	N	-	✓
Z77425	FC21036-4	1X	2	W	16	MS58155	1	N	-	✓
Z77426	FC21036-5	1X	2	W	17	MS58155	1	N	-	✓
Z77427	FC21167-2	1X	1	W	18	MS58155	1	N	-	✓
Z77428	FC21167-3	1X	1	W	19	MS58155	1	N	-	✓
Z77429	FC21167-4	1X	1	W	20	MS58155	1	N	-	✓
Z77430	fc21036-3MS	20X	2	W	21	MS58155	1	N	-	2.5mL--50mL, 20uL-40mL
Z77431	fc21036-3MSD	20X	2	W	22	MS58155	1	N	-	2.5mL--50mL, 20uL-40mL
Z77432	ECC3122-4	-	-	W	23	-	-	-	-	25uL-->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

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Ahtna Global, LLC

Fort Ord Groundwater Monitoring

21187.001.01.0000(FFO2024Q4)

SGS Job Number: FC21168

Sampling Date: 12/11/24

Report to:

Ahtna Global, LLC
9699 Blue Larkspur Lane Suite 203
Monterey, CA 93940
dlieberman@ahtna.net; mfisler@ahtna.net;
hdillon@ahtna.net; eschmidt@ahtna.net;
ATTN: Derek Lieberman

Total number of pages in report: **118**

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: Elvin Kumar 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

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Test results relate only to samples analyzed.

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how we can serve you better at:
EHS.US.CustomerCare@sgs.com

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SGS North America Inc.

Sample Summary

Ahtna Global, LLC

Job No: FC21168

Fort Ord Groundwater Monitoring
Project No: 21187.001.01.0000(FFO2024Q4)

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
FC21168-1	12/11/24	10:53	MFSB	12/12/24	AQ	Ground Water	2450MOU2139F
FC21168-1F	12/11/24	10:53	MFSB	12/12/24	AQ	Groundwater Filtered	2450MOU2139F
FC21168-2	12/11/24	10:55	MFSB	12/12/24	AQ	Ground Water	2450MOU2140D
FC21168-2F	12/11/24	10:55	MFSB	12/12/24	AQ	Groundwater Filtered	2450MOU2140D

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Ahtna Global, LLC **Job No:** FC21168

Site: Fort Ord Groundwater Monitoring **Report Date** 12/27/2024 1:12:33

On 12/12/2024, 2 Sample(s), 0 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 0.4 C. Samples were intact and chemically preserved, unless noted below. A SGS North America Inc. - Orlando Job Number of FC21168 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.

Metals Analysis By Method SW846 6010D

Matrix: AQ **Batch ID:** MP45051

Sample(s) FC21146-1DUP, FC21146-1MS, FC21146-1MSD, FC21146-1PS, FC21146-1SDL were used as the QC samples for metals.

General Chemistry By Method EPA 300/SW846 9056A

Matrix: AQ **Batch ID:** GP40884

Sample(s) FC21158-1MS, FC21158-1MSD were used as the QC samples for Nitrogen, Nitrate, Nitrogen, Nitrite, Sulfate.

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: FC21168
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 12/11/24

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	LOQ	LOD	Units	Method
FC21168-1	**2450MOU2139F**					
Nitrogen, Nitrate		5.9	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		18.6	2.0	1.0	mg/l	EPA 300/SW846 9056A
FC21168-1F	**2450MOU2139F**					
No hits reported in this sample.						
FC21168-2	**2450MOU2140D**					
Nitrogen, Nitrate		5.9	0.10	0.050	mg/l	EPA 300/SW846 9056A
Sulfate		18.4	2.0	1.0	mg/l	EPA 300/SW846 9056A
FC21168-2F	**2450MOU2140D**					
No hits reported in this sample.						

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	2450MOU2139F		
Lab Sample ID:	FC21168-1	**Date Sampled:**	12/11/24
Matrix:	AQ - Ground Water	**Date Received:**	12/12/24
		Percent Solids:	n/a
Project:	Fort Ord Groundwater Monitoring		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	5.9	0.10	0.050	0.040	mg/l	1	12/12/24 15:11	GN	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	0.040	mg/l	1	12/12/24 15:11	GN	EPA 300/SW846 9056A
Sulfate	18.6	2.0	1.0	0.60	mg/l	1	12/12/24 15:11	GN	EPA 300/SW846 9056A

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

Report of Analysis

Client Sample ID:	2450MOU2139F		
Lab Sample ID:	FC21168-1F	**Date Sampled:**	12/11/24
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/12/24
		Percent Solids:	n/a
Project:	Fort Ord Groundwater Monitoring		

Dissolved Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	50 U	300	50	17	ug/l	1	12/23/24	12/24/24	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	2.0 U	15	2.0	1.0	ug/l	1	12/23/24	12/24/24	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA20734
(2) Prep QC Batch: MP45051

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

Report of Analysis

Client Sample ID:	2450MOU2140D		
Lab Sample ID:	FC21168-2	**Date Sampled:**	12/11/24
Matrix:	AQ - Ground Water	**Date Received:**	12/12/24
		Percent Solids:	n/a
Project:	Fort Ord Groundwater Monitoring		

General Chemistry

Analyte	Result	LOQ	LOD	DL	Units	DF	Analyzed	By	Method
Nitrogen, Nitrate	5.9	0.10	0.050	0.040	mg/l	1	12/12/24 15:30	GN	EPA 300/SW846 9056A
Nitrogen, Nitrite	0.050 U	0.10	0.050	0.040	mg/l	1	12/12/24 15:30	GN	EPA 300/SW846 9056A
Sulfate	18.4	2.0	1.0	0.60	mg/l	1	12/12/24 15:30	GN	EPA 300/SW846 9056A

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

Report of Analysis

Client Sample ID:	2450MOU2140D		
Lab Sample ID:	FC21168-2F	**Date Sampled:**	12/11/24
Matrix:	AQ - Groundwater Filtered	**Date Received:**	12/12/24
		Percent Solids:	n/a
Project:	Fort Ord Groundwater Monitoring		

Dissolved Metals Analysis

Analyte	Result	LOQ	LOD	DL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Iron	50 U	300	50	17	ug/l	1	12/23/24	12/24/24	LM	SW846 6010D [1]	SW846 3010A [2]
Manganese	2.0 U	15	2.0	1.0	ug/l	1	12/23/24	12/24/24	LM	SW846 6010D [1]	SW846 3010A [2]

(1) Instrument QC Batch: MA20734
(2) Prep QC Batch: MP45051

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

Ahtna

CHAIN OF CUSTODY

WATER / SOIL

Chain of Custody #: 0862

Carbon Copies: White - Laboratory Yellow - Ahtna

FC21168

Project Information:

Project Location: Former Fort Ord, CA
Sampler/s: M. Fisler / B. Bennett
Project Name: Fort Ord
Report To: Derek Lieberman
Project Number: ~~21069.000.01.0000~~ 21187.000.01.0000
E-Mail: dlieberman@ahtna.net
Sampling Event/Site: 102024 / Fort Ord
Laboratory: SGS

Lab Sample Receipt

Laboratory Sample Delivery
Group #:
Custody Seal:
Temp (°C):

Lab Number	Sample Number/Description	Sample Collection Date	Sample Collection Time	Matrix: Water	Matrix: Soil	Matrix: Other	Total # of Bottles	Preserved: HCl	Preserved: HNO_3	Preserved: H_2SO_4	Preserved: NaOH	Preserved: MeOH	Preserved: $NaHSO_4$	Preserved: None	Preserved: Other	~~VOCs 8260 - SIM~~	Metals 6010 C (Field Filtered)	~~Chloride 9056A~~	Anions 9056A				Notes
1	2450MOU2139F	12.11.24	1053	X			2		1					1			X	~~X~~	X				
2	2450MOU2140D	12.11.24	1055	X			2		1					1			X	~~X~~	X				

INITIAL ASSESSMENT

LABEL VERIFICATION

0.6 IR1

Turnaround Time:	____: Standard ____: 3-5 Day Rush ____: 48 Hour Rush ____: 24 Hour Rush	Shipment:	Method: ____ Tracking ID: ____
Comments:			

Iron and Maganese: Method 6010D (Field Filtered) / Anions: Nitrate, Sulfate - Method 9056A

Chain of Custody Tracking:

Relinquished By Sampler:	Date/Time:	Received By:	Date/Time:
	12.11.24 / 1400		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time: 12/12/24 930

FC21168: Chain of Custody
Page 1 of 3

SGS - Orlando Sample Receipt Summary

Job Number: fc21168 **Client:** AHTNA **Project:** 4Q2024/Fort Ord

Date / Time Received: 12/12/2024 9:30:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 791572392999

Cooler Temps (Raw Measured) °C: Cooler 1: (0.6);

Cooler Temps (Corrected) °C: Cooler 1: (0.4);

Cooler Informatio	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 analysi	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample labe	☑		☐	
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)

Comments

Sample Receipt Summary 112723 EK Technician: SHAYLAP Date: 12/12/2024 11:54:43 AM Reviewer: SP Date: 12/12/24

Job Change Order: FC21168

Requested Date:	12/12/2024	**Received Date:**	12/12/2024
Account Name:	Ahtna Global, LLC	**Due Date:**	12/26/2024
Project Description:	Fort Ord Groundwater Monitoring	**Deliverable:**	FULT2
C/O Initiated By:	ELVIN_KUM **PM:** EKK	**TAT (Days):**	14

==========

Sample #: FC21168-1 **Dept:** WETCHEM

Client ID: 2450MOU2139F **TAT:** 14

Change: Anions - report Nitrate, Nitrite & Sulfate

==========

Sample #: FC21168-2 **Dept:** WETCHEM

Client ID: 2450MOU2140D **TAT:** 14

Change: Anions - report Nitrate, Nitrite & Sulfate

Above Changes Per: Holly Dillon **Date/Time:** 12/13/2024

To Client: This Change Order is confirmation of the revisions, previously discussed with the Client Service Representative.

QC Evaluation: DOD QSM5.x Limits

Job Number: FC21168
Account: Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring
Collected: 12/11/24

QC Sample ID	CAS#	Analyte	Sample Type	Result Type	Result	Units	Limits
MP45051	SW846 6010D						
MP45051-B1	7439-89-6	Iron	BSP	REC	104.2	%	87-115
MP45051-B1	7439-96-5	Manganese	BSP	REC	108	%	90-114
MP45051-S1*	7439-89-6	Iron	MS	REC	101.2	%	87-115
MP45051-S1*	7439-96-5	Manganese	MS	REC	106.6	%	90-114
MP45051-S2*	7439-89-6	Iron	MSD	REC	101.2	%	87-115
MP45051-S2*	7439-89-6	Iron	MSD	RPD	0	%	20
MP45051-S2*	7439-96-5	Manganese	MSD	REC	108	%	90-114
MP45051-S2*	7439-96-5	Manganese	MSD	RPD	1.3	%	20
MP45051-D1*	7439-89-6	Iron	DUP	RPD	4.1	%	20
MP45051-D1*	7439-96-5	Manganese	DUP	RPD	.5	%	20
GP40884	EPA 300/SW846 9056A						
GP40884-B1	14797-65-0	Nitrogen, Nitrite	BSP	REC	107.2	%	87-111
GP40884-B1	14797-55-8	Nitrogen, Nitrate	BSP	REC	101.6	%	88-111
GP40884-B1	14808-79-8	Sulfate	BSP	REC	103.6	%	87-112
GP40884-S1*	14797-65-0	Nitrogen, Nitrite	MS	REC	108	%	87-111
GP40884-S1*	14797-55-8	Nitrogen, Nitrate	MS	REC	104.4	%	88-111
GP40884-S1*	14808-79-8	Sulfate	MS	REC	102.4	%	87-112
GP40884-S2*	14797-65-0	Nitrogen, Nitrite	MSD	RPD	0	%	15
GP40884-S2*	14797-65-0	Nitrogen, Nitrite	MSD	REC	108	%	87-111
GP40884-S2*	14797-55-8	Nitrogen, Nitrate	MSD	RPD	0	%	15
GP40884-S2*	14797-55-8	Nitrogen, Nitrate	MSD	REC	104.4	%	88-111
GP40884-S2*	14808-79-8	Sulfate	MSD	RPD	.4	%	15
GP40884-S2*	14808-79-8	Sulfate	MSD	REC	102.8	%	87-112

* Sample used for QC is not from job FC21168

Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Instrument Runlogs
- Initial and Continuing Calibration Blanks
- Initial and Continuing Calibration Checks
- High and Low Check Standards
- Interfering Element Check Standards
- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries
- IDL and Linear Range Summaries

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
09:27	MA20734-STD1	1		STDA
09:32	MA20734-STD2	1		STDB
09:36	MA20734-STD3	1		STDC
09:41	MA20734-STD4	1		STDD
09:44	MA20734-STD5	1		STDE
09:52	MA20734-STD6	1		STDF
09:56	MA20734-STD7	1		STDG
10:07	MA20734-CRIA1	1		
10:13	MA20734-HSTD1	1		
10:20	MA20734-ICV1	1		
10:26	MA20734-ICB1	1		
10:31	MA20734-ICSA1	1		
10:40	MA20734-ICSAB1	1		
10:47	MA20734-CCV1	1		
10:54	MA20734-CCB1	1		
10:59	MP45051-MB1	1		
11:04	MP45051-B1	1		
11:29	FC21146-1	1		(sample used for QC only; not part of login FC21168)
11:34	MP45051-D1	1		
11:39	MP45051-SD1	5		
11:45	MP45051-PS1	1		
11:50	MA20734-CCV2	1		
11:55	MA20734-CCB2	1		
12:00	MP45051-S1	1		
12:05	MP45051-S2	1		
12:10	ZZZZZZ	1		
12:15	ZZZZZZ	1		
12:20	ZZZZZZ	1		
12:25	ZZZZZZ	1		
12:30	ZZZZZZ	1		
12:35	ZZZZZZ	1		
12:40	FC21168-1F	1		
12:45	FC21168-2F	1		

----------> Last reportable sample/prep for job FC21168

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
12:50	MA20734-CCV3	1		
12:56	MA20734-CCB3	1		
---------->	Last reportable CCB for job FC21168			
13:01	ZZZZZZ	5		
13:06	ZZZZZZ	5		
13:16	ZZZZZZ	5		
13:22	ZZZZZZ	5		
13:27	ZZZZZZ	5		
13:32	ZZZZZZ	1		
13:37	ZZZZZZ	1		
13:42	ZZZZZZ	1		
13:47	ZZZZZZ	1		
13:52	MA20734-CCV4	1		
14:00	MA20734-CCB4	1		
14:42	MA20734-CCV5	1		
14:49	MA20734-CCB5	1		
14:55	ZZZZZZ	1		
15:01	ZZZZZZ	1		
15:06	ZZZZZZ	1		
15:11	ZZZZZZ	1		
15:16	MP45050-MB1	1		
15:21	MP45050-B1	1		
15:26	FC21298-1	5		(sample used for QC only; not part of login FC21168)
15:31	MP45050-D1	5		
15:36	MP45050-SD1	25		
15:41	MP45050-PS1	5		
15:46	MA20734-CCV6	1		
15:51	MA20734-CCB6	1		
15:57	MP45050-S1	5		
16:02	MP45050-S2	5		
16:07	ZZZZZZ	1		
16:12	ZZZZZZ	5		
16:17	ZZZZZZ	5		
16:22	ZZZZZZ	5		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
16:28	ZZZZZZ	5		
16:33	ZZZZZZ	5		
16:39	ZZZZZZ	100		
16:44	ZZZZZZ	100		
16:49	MA20734-CCV7	1		
16:54	MA20734-CCB7	1		
16:59	ZZZZZZ	100		
17:04	ZZZZZZ	100		
17:09	ZZZZZZ	100		
17:15	ZZZZZZ	1		
17:20	ZZZZZZ	1		
17:26	ZZZZZZ	1		
17:31	ZZZZZZ	1		
17:37	ZZZZZZ	1		
17:42	ZZZZZZ	1		
17:48	ZZZZZZ	1		
17:53	MA20734-CCV8	1		
17:58	MA20734-CCB8	1		
18:03	ZZZZZZ	1		
18:08	ZZZZZZ	1		
18:13	ZZZZZZ	1		
18:18	ZZZZZZ	1		
18:24	ZZZZZZ	1		
18:29	ZZZZZZ	1		
18:34	MP45049-MB1	1		
18:39	MP45049-B1	1		
18:44	FC21396-1	1		(sample used for QC only; not part of login FC21168)
18:49	MP45049-D1	1		
18:54	MA20734-CCV9	1		
18:59	MA20734-CCB9	1		
19:04	MP45049-SD1	5		
19:09	MP45049-PS1	1		
19:14	MP45049-S1	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
19:19	MP45049-S2	1		
19:24	ZZZZZZ	1		
19:29	ZZZZZZ	1		
19:34	ZZZZZZ	5		
19:45	ZZZZZZ	1		
19:50	ZZZZZZ	1		
19:55	MA20734-CCV10	1		
20:00	MA20734-CCB10	1		
20:05	ZZZZZZ	1		
20:10	ZZZZZZ	1		
20:15	ZZZZZZ	1		
20:20	ZZZZZZ	1		
20:25	ZZZZZZ	1		
20:30	ZZZZZZ	1		
20:35	ZZZZZZ	1		
20:40	ZZZZZZ	1		
20:45	ZZZZZZ	1		
20:50	ZZZZZZ	1		
20:55	MA20734-CCV11	1		
21:00	MA20734-CCB11	1		
21:17	ZZZZZZ	10		
21:22	MP45048-MB1	1		
21:27	MP45048-B1	1		
21:32	FC21255-1	5		(sample used for QC only; not part of login FC21168)
21:37	MP45048-D1	5		
21:43	MP45048-SD1	25		
21:48	MP45048-PS1	5		
21:53	MP45048-S1	5		
21:58	MA20734-CCV12	1		
22:03	MA20734-CCB12	1		
22:08	MP45048-S2	5		
22:13	ZZZZZZ	1		
22:18	ZZZZZZ	1		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Dilution Factor	PS Recov	Comments
22:23	ZZZZZZ	1		
22:28	ZZZZZZ	5		
22:33	ZZZZZZ	5		
22:38	ZZZZZZ	5		
22:44	ZZZZZZ	5		
22:49	ZZZZZZ	5		
22:54	ZZZZZZ	5		
22:59	MA20734-CCV13	1		
23:04	MA20734-CCB13	1		
23:09	ZZZZZZ	5		
23:14	ZZZZZZ	5		
23:19	ZZZZZZ	5		
23:24	ZZZZZZ	5		
23:29	ZZZZZZ	5		
23:34	ZZZZZZ	5		
23:39	ZZZZZZ	5		
23:44	ZZZZZZ	5		
23:49	ZZZZZZ	5		
23:55	ZZZZZZ	5		
00:00	MA20734-CCV14	1		
00:05	MA20734-CCB14	1		
00:10	MA20734-CCV15	1		
00:15	MA20734-CCB15	1		

Refer to raw data for calibration curve and standards.

REPORTED ELEMENTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Element: Dilution	Fe	Mn	
10:07	MA20734-CRIA1	1	X	X	
10:13	MA20734-HSTD1	1	X	X	
10:20	MA20734-ICV1	1	X	X	
10:26	MA20734-ICB1	1	X	X	
10:31	MA20734-ICSA1	1	X	X	
10:40	MA20734-ICSAB1	1	X	X	
10:47	MA20734-CCV1	1	X	X	
10:54	MA20734-CCB1	1	X	X	
10:59	MP45051-MB1	1	X	X	
11:04	MP45051-B1	1	X	X	
11:29	FC21146-1	1	X		(a)
11:34	MP45051-D1	1	X	X	
11:39	MP45051-SD1	5	X	X	
11:45	MP45051-PS1	1	X	X	
11:50	MA20734-CCV2	1	X	X	
11:55	MA20734-CCB2	1	X	X	
12:00	MP45051-S1	1	X	X	
12:05	MP45051-S2	1	X	X	
12:10	ZZZZZZ	1			
12:15	ZZZZZZ	1			
12:20	ZZZZZZ	1			
12:25	ZZZZZZ	1			
12:30	ZZZZZZ	1			
12:35	ZZZZZZ	1			
12:40	FC21168-1F	1	X	X	
12:45	FC21168-2F	1	X	X	
12:50	MA20734-CCV3	1	X	X	
12:56	MA20734-CCB3	1	X	X	
13:01	ZZZZZZ	5			
13:06	ZZZZZZ	5			
13:16	ZZZZZZ	5			
13:22	ZZZZZZ	5			
13:27	ZZZZZZ	5			
		Element:	Fe	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Element: Dilution	Fe	Mn	
13:32	ZZZZZZ	1			
13:37	ZZZZZZ	1			
13:42	ZZZZZZ	1			
13:47	ZZZZZZ	1			
13:52	MA20734-CCV4	1	X	X	
14:00	MA20734-CCB4	1	X	X	
14:42	MA20734-CCV5	1	X	X	
14:49	MA20734-CCB5	1	X	X	
14:55	ZZZZZZ	1			
15:01	ZZZZZZ	1			
15:06	ZZZZZZ	1			
15:11	ZZZZZZ	1			
15:16	MP45050-MB1	1	X	X	
15:21	MP45050-B1	1	X	X	
15:26	FC21298-1	5			(a)
15:31	MP45050-D1	5	X	X	
15:36	MP45050-SD1	25	X	X	
15:41	MP45050-PS1	5	X	X	
15:46	MA20734-CCV6	1	X	X	
15:51	MA20734-CCB6	1	X	X	
15:57	MP45050-S1	5	X	X	
16:02	MP45050-S2	5	X	X	
16:07	ZZZZZZ	1			
16:12	ZZZZZZ	5			
16:17	ZZZZZZ	5			
16:22	ZZZZZZ	5			
16:28	ZZZZZZ	5			
16:33	ZZZZZZ	5			
16:39	ZZZZZZ	100			
16:44	ZZZZZZ	100			
16:49	MA20734-CCV7	1	X	X	
16:54	MA20734-CCB7	1	X	X	
16:59	ZZZZZZ	100			
		Element:	Fe	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Element: Dilution	Fe	Mn	
17:04	ZZZZZZ	100			
17:09	ZZZZZZ	100			
17:15	ZZZZZZ	1			
17:20	ZZZZZZ	1			
17:26	ZZZZZZ	1			
17:31	ZZZZZZ	1			
17:37	ZZZZZZ	1			
17:42	ZZZZZZ	1			
17:48	ZZZZZZ	1			
17:53	MA20734-CCV8	1	X	X	
17:58	MA20734-CCB8	1	X	X	
18:03	ZZZZZZ	1			
18:08	ZZZZZZ	1			
18:13	ZZZZZZ	1			
18:18	ZZZZZZ	1			
18:24	ZZZZZZ	1			
18:29	ZZZZZZ	1			
18:34	MP45049-MB1	1			
18:39	MP45049-B1	1			
18:44	FC21396-1	1			(a)
18:49	MP45049-D1	1			
18:54	MA20734-CCV9	1	X	X	
18:59	MA20734-CCB9	1	X	X	
19:04	MP45049-SD1	5			
19:09	MP45049-PS1	1			
19:14	MP45049-S1	1			
19:19	MP45049-S2	1			
19:24	ZZZZZZ	1			
19:29	ZZZZZZ	1			
19:34	ZZZZZZ	5			
19:45	ZZZZZZ	1			
19:50	ZZZZZZ	1			
19:55	MA20734-CCV10	1	X	X	
		Element:	Fe	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Element: Dilution	Fe	Mn	
20:00	MA20734-CCB10	1	X	X	
20:05	ZZZZZZ	1			
20:10	ZZZZZZ	1			
20:15	ZZZZZZ	1			
20:20	ZZZZZZ	1			
20:25	ZZZZZZ	1			
20:30	ZZZZZZ	1			
20:35	ZZZZZZ	1			
20:40	ZZZZZZ	1			
20:45	ZZZZZZ	1			
20:50	ZZZZZZ	1			
20:55	MA20734-CCV11	1	X	X	
21:00	MA20734-CCB11	1	X	X	
21:17	ZZZZZZ	10			
21:22	MP45048-MB1	1			
21:27	MP45048-B1	1			
21:32	FC21255-1	5			(a)
21:37	MP45048-D1	5			
21:43	MP45048-SD1	25			
21:48	MP45048-PS1	5			
21:53	MP45048-S1	5			
21:58	MA20734-CCV12	1	X	X	
22:03	MA20734-CCB12	1	X	X	
22:08	MP45048-S2	5			
22:13	ZZZZZZ	1			
22:18	ZZZZZZ	1			
22:23	ZZZZZZ	1			
22:28	ZZZZZZ	5			
22:33	ZZZZZZ	5			
22:38	ZZZZZZ	5			
22:44	ZZZZZZ	5			
22:49	ZZZZZZ	5			
22:54	ZZZZZZ	5			
		Element:	Fe	Mn	

REPORTED ELEMENTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Element: Dilution	F e	M n
22:59	MA20734-CCV13	1	X	X
23:04	MA20734-CCB13	1	X	X
23:09	ZZZZZZ	5		
23:14	ZZZZZZ	5		
23:19	ZZZZZZ	5		
23:24	ZZZZZZ	5		
23:29	ZZZZZZ	5		
23:34	ZZZZZZ	5		
23:39	ZZZZZZ	5		
23:44	ZZZZZZ	5		
23:49	ZZZZZZ	5		
23:55	ZZZZZZ	5		
00:00	MA20734-CCV14	1	X	X
00:05	MA20734-CCB14	1	X	X
00:10	MA20734-CCV15	1	X	X
00:15	MA20734-CCB15	1	X	X

(a) Sample used for QC only; not part of login FC21168.

Element:	F e	M n

INTERNAL STANDARD SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
09:27	MA20734-STD1	7801	55605	10126	3519
09:32	MA20734-STD2	7703	54465	10121	3365
09:36	MA20734-STD3	7770	55099	10197	3368
09:41	MA20734-STD4	7711	54591	10132	3275
09:44	MA20734-STD5	7600	53224	10082	3122
09:52	MA20734-STD6	7433	52191	9939	2924
09:56	MA20734-STD7	7093	49818	9716	2643
10:07	MA20734-CRIA1	7739	54923	9982	3348
10:13	MA20734-HSTD1	7160	50673	9741	2656
10:20	MA20734-ICV1	7421	52364	9883	2903
10:26	MA20734-ICB1	7827 R	55806 R	10014 R	3485 R
10:31	MA20734-ICSA1	6537	45636	9265	2017
10:40	MA20734-ICSAB1	6741	46958	9498	2346
10:47	MA20734-CCV1	7506	52941	9882	2932
10:54	MA20734-CCB1	7896	55923	10024	3513
10:59	MP45051-MB1	7803	56477	10062	3455
11:04	MP45051-B1	7466	53602	10031	3038
11:29	FC21146-1	7435	54165	10265	3154
11:34	MP45051-D1	7451	54431	10253	3160
11:39	MP45051-SD1	7939	57623	10532	3479
11:45	MP45051-PS1	7368	53704	10194	3081
11:50	MA20734-CCV2	7604	54330	10332	2985
11:55	MA20734-CCB2	7995	58032	10486	3562
12:00	MP45051-S1	7377	53266	10290	2934
12:05	MP45051-S2	7393	53252	10255	2944
12:10	ZZZZZZ	7471	54566	10302	3151
12:15	ZZZZZZ	7399	53294	10264	3020
12:20	ZZZZZZ	7757	57013	10341	3424
12:25	ZZZZZZ	7733	56882	10428	3393
12:30	ZZZZZZ	7553	55192	10472	3172
12:35	ZZZZZZ	7707	56594	10472	3370
12:40	FC21168-1F	7529	54841	10428	3202
12:45	FC21168-2F	7489	54529	10324	3203

INTERNAL STANDARD SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
12:50	MA20734-CCV3	7439	53555	10379	2985
12:56	MA20734-CCB3	7714	55583	10264	3548
13:01	ZZZZZZ	7105	51518	10346	2800
13:06	ZZZZZZ	7379	53253	10464	3069
13:16	ZZZZZZ	7133	52923	10790	2889
13:22	ZZZZZZ	7297	53312	10615	3185
13:27	ZZZZZZ	7294	53336	10747	3212
13:32	ZZZZZZ	6948	51272	10441	3102
13:37	ZZZZZZ	7162	52431	10331	3302
13:42	ZZZZZZ	7096	52216	10410	3259
13:47	ZZZZZZ	7136	51762	10273	3278
13:52	MA20734-CCV4	7161	51960	10452	3043
14:00	MA20734-CCB4	7570	55453	10641	3617
14:42	MA20734-CCV5	7095	51293	10389	3038
14:49	MA20734-CCB5	7438	54554	10492	3627
14:55	ZZZZZZ	6832	50536	10416	3097
15:01	ZZZZZZ	7161	52366	10372	3379
15:06	ZZZZZZ	7078	51803	10432	3308
15:11	ZZZZZZ	7096	52075	10398	3336
15:16	MP45050-MB1	7359	54022	10526	3571
15:21	MP45050-B1	7002	50771	10291	3139
15:26	FC21298-1	7156	51279	10539	3197
15:31	MP45050-D1	7112	50904	10390	3195
15:36	MP45050-SD1	7258	52647	10394	3431
15:41	MP45050-PS1	7166	51475	10467	3201
15:46	MA20734-CCV6	7040	50811	10376	3039
15:51	MA20734-CCB6	7374	53637	10382	3613
15:57	MP45050-S1	7198	51645	10575	3179
16:02	MP45050-S2	7177	51514	10477	3156
16:07	ZZZZZZ	7020	51312	10248	3278
16:12	ZZZZZZ	6854	48510	10229	2728
16:17	ZZZZZZ	6544	45744	9906	2812
16:22	ZZZZZZ	6439	44018	9442	2715

INTERNAL STANDARD SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
16:28	ZZZZZZ	6558	45935	9611	2822
16:33	ZZZZZZ	6536	45382	9646	2851
16:39	ZZZZZZ	7238	51878	10281	3434
16:44	ZZZZZZ	7156	50351	10098	3402
16:49	MA20734-CCV7	6903	48705	10084	3000
16:54	MA20734-CCB7	7300	52095	10213	3576
16:59	ZZZZZZ	7146	50094	10097	3370
17:04	ZZZZZZ	7258	51589	10273	3451
17:09	ZZZZZZ	7197	50498	10050	3428
17:15	ZZZZZZ	6367	45228	9653	2706
17:20	ZZZZZZ	6269	45372	9665	2720
17:26	ZZZZZZ	6437	46377	9920	2759
17:31	ZZZZZZ	6314	46259	9851	2772
17:37	ZZZZZZ	6547	47404	9981	2947
17:42	ZZZZZZ	6380	46572	9975	3059
17:48	ZZZZZZ	7171	51955	10368	3423
17:53	MA20734-CCV8	7085	51492	10617	3073
17:58	MA20734-CCB8	7373	53913	10453	3635
18:03	ZZZZZZ	7050	51581	10323	3363
18:08	ZZZZZZ	7195	52435	10403	3442
18:13	ZZZZZZ	7138	51139	10020	3416
18:18	ZZZZZZ	6599	47777	10156	2928
18:24	ZZZZZZ	7153	52422	10418	3375
18:29	ZZZZZZ	7103	51966	10362	3357
18:34	MP45049-MB1	7227	54078	10552	3532
18:39	MP45049-B1	6979	50950	10170	3129
18:44	FC21396-1	7454	53966	10725	3311
18:49	MP45049-D1	7493	53111	10749	3259
18:54	MA20734-CCV9	7101	49794	9905	3037
18:59	MA20734-CCB9	7500	54366	10360	3667
19:04	MP45049-SD1	7622	55604	10862	3602
19:09	MP45049-PS1	7343	52782	10716	3203
19:14	MP45049-S1	7277	52377	10766	3026

INTERNAL STANDARD SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
19:19	MP45049-S2	7292	52025	10638	3017
19:24	ZZZZZZ	7256	52837	10419	3271
19:29	ZZZZZZ	8235	58543	12783	2587
19:34	ZZZZZZ	7820	56184	11024	3414
19:45	ZZZZZZ	7391	53300	10578	3237
19:50	ZZZZZZ	7708	55219	10824	3247
19:55	MA20734-CCV10	7185	51981	10296	3086
20:00	MA20734-CCB10	7609	55821	10540	3680
20:05	ZZZZZZ	7448	54252	10634	3275
20:10	ZZZZZZ	7393	53071	10440	3252
20:15	ZZZZZZ	7475	54254	10549	3321
20:20	ZZZZZZ	7450	52601	10225	3204
20:25	ZZZZZZ	7338	52033	9903	3350
20:30	ZZZZZZ	7504	53306	10176	3315
20:35	ZZZZZZ	7556	53308	10241	3198
20:40	ZZZZZZ	7504	53266	10185	3281
20:45	ZZZZZZ	7627	55150	10685	3283
20:50	ZZZZZZ	7591	54759	10558	3287
20:55	MA20734-CCV11	7333	52930	10418	3107
21:00	MA20734-CCB11	7693	56304	10472	3694
21:17	ZZZZZZ	7215	52031	10068	2727
21:22	MP45048-MB1	7403	54685	10244	3523
21:27	MP45048-B1	7158	52500	10129	3132
21:32	FC21255-1	7543	54383	10663	3124
21:37	MP45048-D1	7364	53245	10542	2959
21:43	MP45048-SD1	7634	55407	10555	3456
21:48	MP45048-PS1	7400	52396	10360	3029
21:53	MP45048-S1	7211	50408	9932	2909
21:58	MA20734-CCV12	7230	50878	9899	3002
22:03	MA20734-CCB12	7628	54516	9998	3585
22:08	MP45048-S2	7289	51017	10072	2924
22:13	ZZZZZZ	8466	58990	11308	3128
22:18	ZZZZZZ	7598	55127	10130	3378

INTERNAL STANDARD SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
Analyst: LM Run ID: MA20734
Parameters: Fe,Mn

Time	Sample Description	Istd#1	Istd#2	Istd#3	Istd#4
22:23	ZZZZZZ	7955	56296	10538	3210
22:28	ZZZZZZ	7966	56209	10377	3449
22:33	ZZZZZZ	7928	57201	10600	3475
22:38	ZZZZZZ	7841	56962	10684	3406
22:44	ZZZZZZ	7823	56999	10634	3364
22:49	ZZZZZZ	7809	55895	10315	3336
22:54	ZZZZZZ	7871	55908	10291	3351
22:59	MA20734-CCV13	7388	52649	9951	3006
23:04	MA20734-CCB13	7740	55762	10019	3594
23:09	ZZZZZZ	7779	55131	10268	3371
23:14	ZZZZZZ	7811	55646	10270	3349
23:19	ZZZZZZ	7830	55568	10288	3380
23:24	ZZZZZZ	8650	60877	11356	3032
23:29	ZZZZZZ	8355	58855	10908	3025
23:34	ZZZZZZ	7485	52976	10012	3031
23:39	ZZZZZZ	8374	59177	11107	3190
23:44	ZZZZZZ	8143	57700	10877	3063
23:49	ZZZZZZ	8463	60042	11230	2954
23:55	ZZZZZZ	8233	58519	10932	3101
00:00	MA20734-CCV14	7368	52566	9810	2984
00:05	MA20734-CCB14	7718	55627	9978	3565
00:10	MA20734-CCV15	7343	52410	9944	2995
00:15	MA20734-CCB15	7719	55669	9975	3565

R = Reference for ISTD limits. ! = Outside limits.

LEGEND:

Istd#	Parameter	Limits
Istd#1	Yttrium (2243)	60-125 %
Istd#2	Yttrium (3600)	60-125 %
Istd#3	Yttrium (3710)	60-125 %
Istd#4	Indium	60-125 %

BLANK RESULTS SUMMARY
Part 1 - Initial and Continuing Calibration Blanks

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: result < RL Run ID: MA20734 Units: ug/l

Time: / Sample ID:			10:26 ICB1		10:54 CCB1		11:55 CCB2		12:56 CCB3	
Metal	RL	IDL	raw	final	raw	final	raw	final	raw	final
Aluminum	200	14	anr							
Antimony	20	1	anr							
Arsenic	10	1.3	anr							
Barium	200	.5	anr							
Beryllium	5.0	.1	anr							
Boron	100	5								
Cadmium	4.0	.1	anr							
Calcium	5000	50	anr							
Chromium	10	.5	anr							
Cobalt	50	.2	anr							
Copper	25	1	anr							
Iron	300	15	3.30	<300	2.50	<300	3.50	<300	3.00	<300
Lead	20	1	anr							
Lithium	20	.5								
Magnesium	5000	35	anr							
Manganese	15	.25	0.100	<15	0.00	<15	0.100	<15	0.100	<15
Molybdenum	50	.3	anr							
Nickel	40	.4	anr							
Potassium	10000	100	anr							
Selenium	20	2	anr							
Silver	10	.5	anr							
Sodium	10000	250	anr							
Strontium	10	.25								
Thallium	10	1	anr							
Tin	50	.5								
Titanium	10	.5								
Vanadium	50	.5	anr							
Zinc	20	3	anr							

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA20734 Units: ug/l

Time:		10:20			10:47			11:50	
Sample ID:	ICV	ICV1		CCV	CCV1		CCV	CCV2	
Metal	True	Results	% Rec	True	Results	% Rec	True	Results	% Rec
Aluminum	anr								
Antimony	anr								
Arsenic	anr								
Barium	anr								
Beryllium	anr								
Boron									
Cadmium	anr								
Calcium	anr								
Chromium	anr								
Cobalt	anr								
Copper	anr								
Iron	40000	41400	103.5	40000	39400	98.5	40000	39000	97.5
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	2000	2070	103.5	2000	2010	100.5	2000	2000	100.0
Molybdenum	anr								
Nickel	anr								
Potassium	anr								
Selenium	anr								
Silver	anr								
Sodium	anr								
Strontium									
Thallium	anr								
Tin									
Titanium									
Vanadium	anr								
Zinc	anr								

(*) Outside of QC limits
(anr) Analyte not requested

CALIBRATION CHECK STANDARDS SUMMARY
Initial and Continuing Calibration Checks

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: 90 to 110 % Recovery Run ID: MA20734 Units: ug/l

Time:		12:50	
Sample ID:	CCV	CCV3	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	40000	38900	97.3
Lead	anr		
Lithium			
Magnesium	anr		
Manganese	2000	2010	100.5
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

HIGH STANDARD CHECK SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: 95 to 105 % Recovery Run ID: MA20734 Units: ug/l

Time:		10:13	
Sample ID:	HSTD	HSTD1	
Metal	True	Results	% Rec
Aluminum	anr		
Antimony	anr		
Arsenic	anr		
Barium	anr		
Beryllium	anr		
Boron			
Cadmium	anr		
Calcium	anr		
Chromium	anr		
Cobalt	anr		
Copper	anr		
Iron	80000	78400	98.0
Lead	anr		
Lithium			
Magnesium	anr		
Manganese	4000	3940	98.5
Molybdenum	anr		
Nickel	anr		
Potassium	anr		
Selenium	anr		
Silver	anr		
Sodium	anr		
Strontium			
Thallium	anr		
Tin			
Titanium			
Vanadium	anr		
Zinc	anr		

(*) Outside of QC limits
(anr) Analyte not requested

LOW CALIBRATION CHECK STANDARDS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: CRI 70-130% CRIA 70-130% Run ID: MA20734 Units: ug/l

Time:			10:07	
Sample ID:	CRI	CRIA	CRIA1	
Metal	True	True	Results	% Rec
Aluminum	400	200	anr	
Antimony	10	5.0	anr	
Arsenic	20	10	anr	
Barium	400	200	anr	
Beryllium	10	5.0	anr	
Boron	100	50		
Cadmium	10	5.0	anr	
Calcium	2000	1000	anr	
Chromium	20	10	anr	
Cobalt	100	50	anr	
Copper	50	25	anr	
Iron	600	300	317	105.7
Lead	10	5.0	anr	
Lithium	18	9.0		
Magnesium	10000	5000	anr	
Manganese	30	15	14.9	99.3
Molybdenum	100	50	anr	
Nickel	80	40	anr	
Potassium	20000	10000	anr	
Selenium	20	10	anr	
Silver	20	10	anr	
Sodium	20000	10000	anr	
Strontium	20	10		
Thallium	20	10	anr	
Tin	100	50		
Titanium	20	10		
Vanadium	100	50	anr	
Zinc	40	20	anr	

(*) Outside of QC limits
(anr) Analyte not requested

INTERFERING ELEMENT CHECK STANDARDS SUMMARY
Part 1 - ICSA and ICSAB Standards

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: SA122424M1.ICP Date Analyzed: 12/24/24 Methods: SW846 6010D
QC Limits: 80 to 120 % Recovery Run ID: MA20734 Units: ug/l

Time:			10:31		10:40	
Sample ID:	ICSA	ICSAB	ICSA1		ICSAB1	
Metal	True	True	Results	% Rec	Results	% Rec
Aluminum	500000	500000	520000	104.0	523000	104.6
Antimony		1000	-0.100		1020	102.0
Arsenic		1000	0.00		1020	102.0
Barium		500	-0.500		501	100.2
Beryllium		500	0.00		494	98.8
Boron		1000	-1.90		1010	101.0
Cadmium		1000	-0.400		964	96.4
Calcium	500000	500000	494000	98.8	493000	98.6
Chromium		500	0.500		480	96.0
Cobalt		500	-0.700		469	93.8
Copper		500	-0.300		536	107.2
Iron	500000	200000	476000	95.2	182000	91.0
Lead		1000	0.200		1050	105.0
Lithium		1000	2.20		1020	102.0
Magnesium	500000	500000	547000	109.4	534000	106.8
Manganese		500	-0.800		521	104.2
Molybdenum		1000	0.300		948	94.8
Nickel		1000	0.600		900	90.0
Potassium			-16.2		-17.4	
Selenium		1000	-0.700		946	94.6
Silver		1000	0.00		1070	107.0
Sodium			318		312	
Strontium		1000	-0.200		978	97.8
Thallium		1000	0.00		1000	100.0
Tin		1000	0.00		904	90.4
Titanium		1000	-1.40		1010	101.0
Vanadium		500	0.00		512	102.4
Zinc		1000	0.00		943	94.3

(*) Outside of QC limits
(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/23/24

Metal	RL	IDL	MDL	MB raw	final
Aluminum	200	14	14		
Antimony	6.0	1	1		
Arsenic	10	1.3	1.3		
Barium	200	.5	1		
Beryllium	4.0	.1	.2		
Boron	100	5	10		
Cadmium	5.0	.1	.2		
Calcium	1000	50	50		
Chromium	10	.5	1		
Cobalt	50	.2	.2		
Copper	25	1	1		
Iron	300	15	17	12.3	<300
Lead	5.0	1	1.1		
Lithium	10	.5	1.3		
Magnesium	5000	35	35		
Manganese	15	.25	1	0.10	<15
Molybdenum	50	.3	.3		
Nickel	40	.4	.4		
Potassium	10000	100	200		
Selenium	10	2	2.9		
Silver	10	.5	.7		
Sodium	10000	250	500		
Strontium	10	.25	.5		
Thallium	10	1	1.4		
Tin	50	.5	1		
Titanium	10	.5	1		
Vanadium	50	.5	.6		
Zinc	20	3	4.4		

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date:			12/23/24					12/23/24	
Metal	FC21146-1 Original	DUP	RPD	QC Limits	FC21146-1 Original	MS	Spikelot MPFLICP4	% Rec	QC Limits
Aluminum	anr								
Antimony									
Arsenic	anr								
Barium									
Beryllium									
Boron									
Cadmium	anr								
Calcium	anr								
Chromium									
Cobalt									
Copper									
Iron	479	499	4.1	0-20	479	26800	26000	101.2	80-120
Lead	anr								
Lithium									
Magnesium	anr								
Manganese	19.1	19.0	0.5	0-20	19.1	552	500	106.6	80-120
Molybdenum									
Nickel									
Potassium	anr								
Selenium									
Silver									
Sodium	anr								
Strontium									
Thallium									
Tin									
Titanium									
Vanadium									
Zinc	anr								

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051 Methods: SW846 6010D
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 12/23/24

Metal	FC21146-1 Original	MSD	Spikelot MPFLICP4	% Rec	MSD RPD	QC Limit
Aluminum	anr					
Antimony						
Arsenic	anr					
Barium						
Beryllium						
Boron						
Cadmium	anr					
Calcium	anr					
Chromium						
Cobalt						
Copper						
Iron	479	26800	26000	101.2	0.0	20
Lead	anr					
Lithium						
Magnesium	anr					
Manganese	19.1	559	500	108.0	1.3	20
Molybdenum						
Nickel						
Potassium	anr					
Selenium						
Silver						
Sodium	anr					
Strontium						
Thallium						
Tin						
Titanium						
Vanadium						
Zinc	anr					

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/23/24

Metal	BSP Result	Spikelot MPFLICP4	% Rec	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium				
Cobalt				
Copper				
Iron	27100	26000	104.2	80-120
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	540	500	108.0	80-120
Molybdenum				
Nickel				
Potassium	anr			
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/23/24

Metal	FC21146-1 Original	SDL 1:5	%DIF	QC Limits
Aluminum	anr			
Antimony				
Arsenic	anr			
Barium				
Beryllium				
Boron				
Cadmium	anr			
Calcium	anr			
Chromium				
Cobalt				
Copper				
Iron	479	454	5.3	0-10
Lead	anr			
Lithium				
Magnesium	anr			
Manganese	19.1	17.6	7.9	0-10
Molybdenum				
Nickel				
Potassium	anr			
Selenium				
Silver				
Sodium	anr			
Strontium				
Thallium				
Tin				
Titanium				
Vanadium				
Zinc	anr			

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

POST DIGESTATE SPIKE SUMMARY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

QC Batch ID: MP45051
Matrix Type: AQUEOUS

Methods: SW846 6010D
Units: ug/l

Prep Date: 12/23/24

Metal	Sample ml	Final ml	FC21146-1 Raw	Corr.**	PS ug/l	Spike ml	Spike ug/ml	Spike ug/l	% Rec	QC Limits
Aluminum										
Antimony										
Arsenic										
Barium										
Beryllium										
Boron										
Cadmium										
Calcium										
Chromium										
Cobalt										
Copper										
Iron	9.8	10	479.4	469.812	3533	0.2	150	3000	102.1	80-120
Lead										
Lithium										
Magnesium										
Manganese	9.8	10	19.1	18.718	71.3	0.2	2.5	50	105.2	80-120
Molybdenum										
Nickel										
Potassium										
Selenium										
Silver										
Sodium										
Strontium										
Thallium										
Tin										
Titanium										
Vanadium										
Zinc										

Associated samples MP45051: FC21168-1F, FC21168-2F

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(**) Corr. sample result = Raw * (sample volume / final volume)
(anr) Analyte not requested

Instrument Detection Limits

Job Number: FC21168
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Instrument ID: SSTRACE1 **Effective Date:** 09/01/22

Analyte	IDL ug/l
Aluminum	14
Antimony	1
Arsenic	1.3
Barium	.5
Beryllium	.1
Boron	5
Cadmium	.1
Calcium	50
Chromium	.5
Cobalt	.2
Copper	1
Iron	15
Lead	1
Lithium	.5
Magnesium	35
Manganese	.25
Molybdenum	.3
Nickel	.4
Potassium	100
Selenium	2
Silicon	5
Silver	.5
Sodium	250
Strontium	.25
Sulfur	5
Thallium	1
Tin	.5
Titanium	.5
Vanadium	.5
Zinc	3

The above applies to the following instrument runs:
MA20734

Instrument Linear Ranges

Job Number: FC21168
Account: AHTNACAS Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Instrument ID: SSTRACE1 **Effective Date:** 09/01/22

Analyte	Linear Range ug/l
Aluminum	500000
Antimony	10000
Arsenic	10000
Barium	10000
Beryllium	10000
Boron	10000
Cadmium	10000
Calcium	500000
Chromium	10000
Cobalt	10000
Copper	10000
Iron	500000
Lead	10000
Lithium	10000
Magnesium	500000
Manganese	10000
Molybdenum	10000
Nickel	10000
Potassium	80000
Selenium	10000
Silver	1000
Sodium	80000
Strontium	10000
Sulfur	10000
Thallium	10000
Tin	10000
Titanium	10000
Vanadium	10000
Zinc	10000

The above applies to the following instrument runs:
MA20734

Metals Analysis

Raw Data

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/24/2024 9:27:08 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0003**	**-.0003**	**-.0001**	**.0004**	**-.0003**	**-.0001**	**.0019**	**.0000**	**-.0001**
Stddev	.0001	.0009	.0001	.0002	.0009	.0006	.0003	.0001	.0001
%RSD	33.26	252.7	76.50	40.47	307.3	902.0	16.37	277.2	188.0
#1	-.0002	-.0007	-.0001	.0003	.0005	-.0007	.0020	.0000	-.0002
#2	-.0004	.0007	-.0003	.0006	-.0013	.0000	.0021	.0000	.0001
#3	-.0002	-.0010	-.0001	.0004	-.0001	.0005	.0016	.0001	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0001**	**.0057**	**-.0001**	**.0049**	**.0048**	**-.0003**	**.0000**	**.0001**	**-.0193**
Stddev	.0001	.0000	.0001	.0013	.0002	.0003	.000	.0001	.0009
%RSD	58.58	.7737	55.32	27.05	3.780	101.6	84.12	79.43	4.461
#1	-.0002	.0058	-.0001	.0062	.0047	.0001	.0000	.0000	-.0184
#2	-.0001	.0057	-.0002	.0035	.0050	-.0005	.0000	.0001	-.0201
#3	-.0001	.0058	-.0001	.0049	.0049	-.0006	-.0001	.0001	-.0193

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**-.0003**	**-.0011**	**.0000**	**-.0001**	**.0030**	**.0002**	**-.0029**	**.0008**	**.0005**
Stddev	.0001	.0001	.000	.0001	.0001	.0001	.0002	.0003	.0001
%RSD	22.40	12.07	11800.	67.44	3.512	60.36	7.643	32.81	16.23
#1	-.0003	-.0012	-.0001	-.0001	.0031	.0001	-.0026	.0008	.0004
#2	-.0003	-.0009	.0000	.0000	.0030	.0001	-.0031	.0006	.0005
#3	-.0004	-.0010	.0001	-.0002	.0029	.0003	-.0029	.0011	.0004

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**-.0004**	**-.0002**
Stddev	.0001	.0001
%RSD	15.37	72.45
#1	-.0004	-.0003
#2	-.0005	.0000
#3	-.0004	-.0002

Zoom In ▶ Zoom Out

Sample Name: STDA Acquired: 12/24/2024 9:27:08 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3519.3**	**7800.8**	**55605.**	**10126.**
Stddev	8.9	7.4	178.	69.
%RSD	.25218	.09434	.32034	.67911
#1	3513.4	7803.6	55640.	10046.
#2	3529.5	7806.4	55764.	10165.
#3	3515.0	7792.5	55412.	10166.

Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/24/2024 9:32:13 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0046**	**.0301**	**.0008**	**.0104**	**1.727**	**.0557**	**.2845**	**.0200**	**.1073**
Stddev	.0001	.0012	.0000	.0003	.003	.0003	.0003	.0001	.0004
%RSD	1.398	3.863	4.592	2.877	.1935	.5890	.1058	.3237	.3996
#1	.0047	.0306	.0008	.0104	1.724	.0553	.2848	.0200	.1078
#2	.0046	.0287	.0008	.0102	1.727	.0560	.2842	.0200	.1070
#3	.0046	.0309	.0008	.0108	1.730	.0557	.2845	.0201	.1071

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0050**	**.0282**	**.0478**	**.7220**	**.0234**	**.1562**	**.0339**	**.0345**	**2.182**
Stddev	.0001	.0000	.0002	.0012	.0006	.0006	.0001	.0001	.006
%RSD	1.435	.1583	.3792	.1637	2.746	.3719	.2866	.2984	.2608
#1	.0049	.0283	.0477	.7208	.0227	.1567	.0339	.0345	2.178
#2	.0049	.0282	.0476	.7219	.0237	.1563	.0338	.0345	2.179
#3	.0050	.0282	.0480	.7231	.0239	.1556	.0340	.0343	2.188

Elem	Ni2316	Pb2203	Sb2068	Se1960	Sn1899	Sr4077	Ti3349	Tl1908	V_2924
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0531**	**.0029**	**.0007**	**.0005**	**.0122**	**.1538**	**.0155**	**.0024**	**.0358**
Stddev	.0001	.0002	.0001	.0001	.0001	.0011	.0001	.0001	.0001
%RSD	.2420	6.952	14.59	15.10	.7944	.7277	.6267	4.991	.2736
#1	.0533	.0031	.0007	.0005	.0123	.1548	.0155	.0025	.0357
#2	.0531	.0030	.0008	.0006	.0121	.1526	.0155	.0023	.0359
#3	.0530	.0027	.0006	.0005	.0123	.1542	.0157	.0023	.0359

Elem	Zn2062
Units	Cts/S
Avg	**.0393**
Stddev	.0001
%RSD	.2485
#1	.0392
#2	.0393
#3	.0394

Zoom In ▶ Zoom Out

Sample Name: STDB Acquired: 12/24/2024 9:32:13 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3364.8**	**7702.7**	**54465.**	**10121.**
Stddev	3.6	5.3	243.	30.
%RSD	.10661	.06940	.44540	.29434
#1	3366.1	7701.0	54185.	10095.
#2	3367.7	7708.7	54594.	10115.
#3	3360.8	7698.4	54617.	10154.

Zoom In Zoom Out

Sample Name: STDC Acquired: 12/24/2024 9:36:33 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0152**	**.7378**	**.0228**	**.0535**	**2.190**	**2.760**	**1.472**	**1.007**	**.5412**
Stddev	.0001	.0013	.0001	.0003	.004	.002	.002	.001	.0002
%RSD	.8322	.1816	.3135	.6308	.1686	.0576	.1569	.0686	.0401
#1	.0151	.7373	.0228	.0539	2.193	2.758	1.470	1.007	.5415
#2	.0152	.7369	.0227	.0535	2.193	2.760	1.471	1.006	.5410
#3	.0154	.7394	.0228	.0532	2.186	2.761	1.475	1.007	.5412

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1259**	**.2253**	**.7891**	**.3666**	**.4784**	**.1609**	**.5813**	**.1771**	**1.106**
Stddev	.0002	.0003	.0002	.0018	.0030	.0002	.0008	.0001	.002
%RSD	.1739	.1192	.0237	.4858	.6358	.1434	.1378	.0789	.2140
#1	.1259	.2251	.7889	.3686	.4794	.1607	.5811	.1772	1.109
#2	.1256	.2256	.7892	.3659	.4749	.1611	.5807	.1771	1.105
#3	.1260	.2253	.7891	.3652	.4807	.1611	.5822	.1769	1.105

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.3375**	**.2113**	**.0424**	**.0180**	**.1064**	**.0612**	**3.974**	**.3619**	**.0463**
Stddev	.0004	.0004	.0003	.0001	.0002	.0001	.001	.0003	.0003
%RSD	.1183	.1907	.6094	.7420	.2348	.2036	.0332	.0913	.5761
#1	.3371	.2114	.0426	.0180	.1061	.0612	3.973	.3621	.0460
#2	.3379	.2115	.0425	.0180	.1065	.0613	3.975	.3620	.0466
#3	.3376	.2108	.0421	.0178	.1066	.0611	3.973	.3615	.0464

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.1853**	**.4857**
Stddev	.0001	.0008
%RSD	.0324	.1634
#1	.1854	.4848
#2	.1853	.4863
#3	.1853	.4859

Zoom In Zoom Out

Sample Name: STDC Acquired: 12/24/2024 9:36:33 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3368.0**	**7770.0**	**55099.**	**10197.**
Stddev	7.2	10.7	159.	15.
%RSD	.21391	.13759	.28829	.14348
#1	3366.1	7771.9	54927.	10212.
#2	3362.0	7758.4	55239.	10183.
#3	3376.0	7779.5	55132.	10194.

Zoom In Zoom Out

Sample Name: STDD Acquired: 12/24/2024 9:41:01 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0303**	**1.450**	**.0452**	**.1054**	**4.376**	**5.451**	**2.845**	**1.976**	**1.056**
Stddev	.0001	.002	.0001	.0009	.004	.010	.007	.004	.002
%RSD	.1843	.1569	.1256	.8481	.1034	.1781	.2369	.1749	.2032
#1	.0302	1.451	.0452	.1059	4.380	5.459	2.839	1.977	1.058
#2	.0303	1.451	.0453	.1058	4.377	5.455	2.852	1.979	1.057
#3	.0303	1.447	.0452	.1043	4.371	5.440	2.844	1.972	1.054

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2470**	**.4350**	**1.547**	**.7167**	**.9375**	**.3164**	**1.152**	**.3504**	**2.203**
Stddev	.0011	.0009	.001	.0025	.0012	.0010	.005	.0004	.003
%RSD	.4616	.2018	.0396	.3495	.1298	.3221	.4219	.1056	.1325
#1	.2459	.4344	1.548	.7192	.9379	.3153	1.148	.3506	2.205
#2	.2481	.4348	1.547	.7166	.9361	.3173	1.157	.3506	2.204
#3	.2469	.4360	1.547	.7142	.9385	.3167	1.152	.3500	2.200

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.6582**	**.4220**	**.0840**	**.0355**	**.2069**	**.1197**	**7.820**	**.7188**	**.0915**
Stddev	.0004	.0003	.0003	.0002	.0005	.0002	.025	.0012	.0002
%RSD	.0682	.0638	.4001	.5315	.2418	.1264	.3196	.1681	.1942
#1	.6582	.4223	.0840	.0355	.2072	.1196	7.846	.7179	.0917
#2	.6586	.4219	.0843	.0357	.2073	.1198	7.817	.7202	.0913
#3	.6577	.4217	.0837	.0353	.2064	.1196	7.796	.7184	.0915

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.3649**	**.9528**
Stddev	.0012	.0008
%RSD	.3178	.0830
#1	.3642	.9530
#2	.3662	.9535
#3	.3643	.9519

Zoom In Zoom Out

Sample Name: STDD Acquired: 12/24/2024 9:41:01 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3275.4**	**7710.5**	**54591.**	**10132.**
Stddev	7.3	7.1	372.	66.
%RSD	.22245	.09236	.68167	.64689
#1	3282.2	7715.9	54974.	10201.
#2	3276.1	7702.4	54231.	10070.
#3	3267.7	7713.2	54567.	10126.

Zoom In Zoom Out

Sample Name: STDE Acquired: 12/24/2024 9:44:42 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.0606**	**2.864**	**.0917**	**.1981**	**8.818**	**10.97**	**5.640**	**3.947**	**2.098**
Stddev	.0001	.006	.0002	.0008	.017	.02	.016	.007	.004
%RSD	.1801	.2028	.2681	.3974	.1896	.2250	.2820	.1860	.2097
#1	.0607	2.865	.0920	.1983	8.824	10.96	5.641	3.955	2.103
#2	.0606	2.868	.0916	.1973	8.831	10.99	5.655	3.945	2.096
#3	.0605	2.857	.0915	.1988	8.799	10.94	5.624	3.941	2.095

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.4937**	**.8647**	**3.070**	**1.421**	**1.885**	**.6232**	**2.310**	**.6883**	**4.415**
Stddev	.0013	.0002	.008	.003	.006	.0015	.005	.0014	.008
%RSD	.2701	.0228	.2565	.2427	.3031	.2445	.2373	.2087	.1823
#1	.4924	.8648	3.069	1.422	1.884	.6218	2.303	.6898	4.415
#2	.4951	.8648	3.079	1.423	1.891	.6249	2.314	.6882	4.423
#3	.4936	.8645	3.063	1.417	1.879	.6230	2.312	.6869	4.407

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.307**	**.8653**	**.1687**	**.0723**	**.2746**	**.2369**	**15.64**	**1.459**	**.1872**
Stddev	.001	.0031	.0002	.0001	.0008	.0002	.04	.001	.0007
%RSD	.0969	.3528	.1216	.1954	.2762	.0993	.2726	.0771	.3905
#1	1.308	.8623	.1689	.0722	.2753	.2371	15.62	1.458	.1864
#2	1.308	.8654	.1685	.0725	.2748	.2367	15.69	1.460	.1876
#3	1.306	.8684	.1686	.0724	.2738	.2368	15.61	1.459	.1877

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**.7330**	**1.902**
Stddev	.0016	.000
%RSD	.2222	.0179
#1	.7311	1.902
#2	.7342	1.902
#3	.7336	1.902

Zoom In Zoom Out

Sample Name: STDE Acquired: 12/24/2024 9:44:42 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3122.3**	**7599.5**	**53224.**	**10082.**
Stddev	5.9	4.6	101.	40.
%RSD	.18782	.06043	.18982	.39208
#1	3128.3	7594.2	53335.	10100.
#2	3122.2	7602.0	53201.	10037.
#3	3116.6	7602.2	53137.	10110.

Zoom In Zoom Out

Sample Name: STDF Acquired: 12/24/2024 9:52:36 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.1227**	**5.796**	**.1860**	**.4027**	**17.81**	**22.16**	**11.38**	**7.875**	**4.173**
Stddev	.0005	.015	.0003	.0003	.00	.02	.03	.006	.002
%RSD	.3798	.2552	.1437	.0757	.0178	.0879	.2703	.0773	.0582
#1	.1230	5.812	.1861	.4023	17.82	22.14	11.41	7.872	4.173
#2	.1222	5.784	.1857	.4029	17.81	22.17	11.36	7.870	4.170
#3	.1230	5.791	.1862	.4028	17.81	22.18	11.36	7.882	4.175

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.9842**	**1.730**	**6.121**	**2.878**	**3.820**	**1.263**	**4.596**	**1.378**	**8.993**
Stddev	.0038	.005	.009	.002	.009	.004	.011	.002	.009
%RSD	.3824	.3023	.1501	.0709	.2359	.2855	.2440	.1126	.1053
#1	.9829	1.725	6.111	2.876	3.811	1.267	4.597	1.378	9.004
#2	.9812	1.730	6.123	2.880	3.820	1.260	4.584	1.376	8.987
#3	.9884	1.736	6.129	2.877	3.829	1.262	4.607	1.379	8.989

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2.606**	**1.780**	**.3395**	**.1457**	**.5474**	**.4700**	**31.11**	**2.932**	**.3794**
Stddev	.002	.003	.0005	.0001	.0012	.0003	.40	.005	.0007
%RSD	.0820	.1513	.1570	.0933	.2117	.0707	1.273	.1728	.1885
#1	2.605	1.778	.3397	.1456	.5482	.4696	31.56	2.927	.3788
#2	2.605	1.780	.3389	.1458	.5460	.4700	30.82	2.934	.3792
#3	2.609	1.783	.3399	.1456	.5479	.4703	30.96	2.936	.3802

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**1.488**	**3.811**
Stddev	.003	.007
%RSD	.1857	.1724
#1	1.487	3.804
#2	1.487	3.815
#3	1.492	3.816

Zoom In Zoom Out

Sample Name: STDF Acquired: 12/24/2024 9:52:36 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2923.8**	**7432.9**	**52191.**	**9938.9**
Stddev	8.6	12.9	244.	36.3
%RSD	.29461	.17337	.46835	.36508
#1	2933.1	7445.7	52215.	9901.2
#2	2922.1	7432.9	52423.	9973.6
#3	2916.1	7420.0	51936.	9942.0

Zoom In Zoom Out

Sample Name: STDG Acquired: 12/24/2024 9:56:29 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**.2484**	**11.84**	**.3802**	**.8695**	**36.25**	**43.66**	**22.86**	**15.71**	**8.366**
Stddev	.0004	.02	.0024	.0051	.85	.35	.05	.06	.033
%RSD	.1428	.1300	.6298	.5869	2.336	.8035	.2063	.3801	.3959
#1	.2480	11.86	.3829	.8744	36.75	43.49	22.84	15.77	8.395
#2	.2486	11.85	.3794	.8697	35.27	43.42	22.82	15.72	8.372
#3	.2486	11.83	.3784	.8642	36.73	44.06	22.91	15.65	8.330

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**1.988**	**3.529**	**12.04**	**5.896**	**7.763**	**2.538**	**9.209**	**2.707**	**18.38**
Stddev	.001	.004	.03	.006	.021	.006	.024	.013	.03
%RSD	.0575	.1050	.2600	.1061	.2694	.2259	.2581	.4753	.1784
#1	1.986	3.525	12.04	5.901	7.786	2.537	9.218	2.720	18.41
#2	1.988	3.530	12.00	5.889	7.756	2.533	9.226	2.707	18.35
#3	1.989	3.532	12.07	5.897	7.746	2.544	9.182	2.695	18.39

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**5.205**	**3.724**	**.6916**	**.2941**	**1.267**	**.9280**	**63.44**	**5.868**	**.7785**
Stddev	.021	.014	.0039	.0012	.007	.0038	.90	.021	.0039
%RSD	.4073	.3814	.5626	.4086	.5179	.4133	1.420	.3611	.4987
#1	5.228	3.741	.6959	.2955	1.275	.9316	62.46	5.878	.7830
#2	5.200	3.715	.6903	.2933	1.264	.9286	63.63	5.844	.7763
#3	5.186	3.718	.6885	.2936	1.262	.9239	64.23	5.883	.7763

Elem	V_2924	Zn2062
Units	Cts/S	Cts/S
Avg	**3.007**	**7.608**
Stddev	.004	.030
%RSD	.1211	.3912
#1	3.007	7.639
#2	3.003	7.606
#3	3.010	7.579

Zoom In Zoom Out

Sample Name: STDG Acquired: 12/24/2024 9:56:29 Type: Cal
Method: 60102007_COMBO_102422(v377) Mode: IR Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2642.8**	**7092.5**	**49818.**	**9716.3**
Stddev	9.1	26.9	95.	24.4
%RSD	.34502	.37861	.19134	.25163
#1	2632.6	7074.7	49908.	9739.7
#2	2645.5	7079.4	49829.	9718.3
#3	2650.2	7123.4	49718.	9690.9

Zoom In Zoom Out

Sample Name: CRIA Acquired: 12/24/2024 10:07:27 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0099**	**.2058**	**.0097**	F **.0557**	**.1947**	**.0051**	**1.009**	**.0051**	**.0509**
Stddev	.0000	.0007	.0001	.0007	.0007	.0000	.004	.0001	.0001
%RSD	.0016	.3289	1.418	1.295	.3532	.7287	.4009	1.238	.1430
#1	.0099	.2062	.0098	.0562	.1952	.0051	1.006	.0051	.0509
#2	.0099	.2053	.0096	.0552	.1942	.0051	1.012	.0051	.0508
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.0100					
Range				20.00%					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0102**	**.0258**	**.3171**	**10.02**	**.0103**	**5.017**	**.0149**	**.0504**	**9.786**
Stddev	.0001	.0002	.0048	.01	.0003	.024	.0000	.0001	.016
%RSD	1.375	.7038	1.499	.0820	2.694	.4683	.2868	.1186	.1640
#1	.0101	.0259	.3137	10.02	.0101	5.001	.0149	.0504	9.798
#2	.0103	.0256	.3204	10.01	.0105	5.034	.0149	.0503	9.775
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0412**	**.0048**	**.0044**	**.0083**	**.0472**	**.0515**	**.0100**	**.0101**	**.0116**
Stddev	.0001	.0000	.0012	.0008	.0001	.0002	.0000	.0000	.0005
%RSD	.1994	.2433	27.44	9.335	.1222	.3631	.3690	.3261	4.188
#1	.0413	.0048	.0053	.0088	.0472	.0517	.0100	.0100	.0119
#2	.0412	.0048	.0036	.0077	.0472	.0514	.0100	.0101	.0112
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CRIA Acquired: 12/24/2024 10:07:27 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.0484**	**.0212**
Stddev	.0003	.0001
%RSD	.5433	.4017
#1	.0486	.0212
#2	.0482	.0213
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3348.0**	**7738.7**	**54923.**	**9981.7**
Stddev	6.5	6.2	341.	31.8
%RSD	.19437	.08026	.62033	.31885
#1	3352.6	7743.1	55164.	10004.
#2	3343.4	7734.3	54682.	9959.2

Zoom In Zoom Out

Sample Name: HSTD Acquired: 12/24/2024 10:13:30 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4985**	**80.39**	**4.022**	**4.093**	**3.991**	**4.031**	**79.90**	**3.951**	**3.950**
Stddev	.0008	.09	.004	.029	.038	.029	.04	.003	.001
%RSD	.1688	.1063	.0961	.6985	.9566	.7155	.0509	.0853	.0325
#1	.4992	80.49	4.026	4.070	4.034	4.045	79.89	3.952	3.951
#2	.4988	80.33	4.019	4.125	3.962	3.998	79.87	3.952	3.950
#3	.4976	80.36	4.021	4.084	3.976	4.051	79.95	3.947	3.949
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.936**	**3.973**	**78.40**	**80.46**	**3.986**	**80.19**	**3.944**	**3.911**	**80.51**
Stddev	.010	.006	.19	.06	.003	.35	.011	.001	.15
%RSD	.2584	.1554	.2422	.0751	.0647	.4329	.2858	.0231	.1923
#1	3.944	3.975	78.49	80.43	3.984	80.46	3.955	3.912	80.34
#2	3.938	3.978	78.18	80.43	3.984	79.80	3.933	3.912	80.65
#3	3.924	3.966	78.52	80.53	3.989	80.31	3.944	3.910	80.53
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**3.953**	**4.101**	**3.999**	**3.971**	**4.053**	**3.917**	**3.960**	**3.950**	**4.053**
Stddev	.001	.006	.003	.003	.001	.002	.059	.013	.009
%RSD	.0284	.1542	.0712	.0717	.0351	.0424	1.478	.3392	.2139
#1	3.953	4.108	4.002	3.973	4.054	3.915	4.027	3.955	4.063
#2	3.955	4.100	3.999	3.973	4.052	3.916	3.918	3.960	4.050
#3	3.953	4.096	3.997	3.968	4.052	3.918	3.935	3.934	4.046
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: HSTD Acquired: 12/24/2024 10:13:30 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**3.992**	**3.972**
Stddev	.004	.003
%RSD	.1134	.0636
#1	3.997	3.971
#2	3.993	3.974
#3	3.988	3.969
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2656.4**	**7160.1**	**50673.**	**9741.0**
Stddev	1.2	10.4	144.	33.2
%RSD	.04408	.14560	.28379	.34106
#1	2657.5	7172.1	50527.	9719.9
#2	2655.2	7154.9	50678.	9779.3
#3	2656.5	7153.2	50814.	9723.9

Zoom In Zoom Out

Sample Name: ICV Acquired: 12/24/2024 10:20:05 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2523**	**41.22**	**2.062**	**1.956**	**2.084**	**2.094**	**41.75**	**2.072**	**2.063**
Stddev	.0006	.07	.002	.023	.000	.005	.12	.001	.002
%RSD	.2227	.1620	.0720	1.187	.0190	.2225	.2905	.0545	.0848
#1	.2519	41.25	2.064	1.930	2.083	2.096	41.89	2.072	2.063
#2	.2520	41.27	2.062	1.963	2.083	2.097	41.70	2.073	2.065
#3	.2530	41.15	2.062	1.975	2.084	2.089	41.67	2.071	2.062
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.052**	**2.048**	**41.43**	**41.14**	**2.043**	**41.54**	**2.074**	**2.089**	**41.39**
Stddev	.003	.001	.12	.01	.003	.20	.003	.004	.07
%RSD	.1223	.0684	.2886	.0358	.1335	.4875	.1252	.1796	.1730
#1	2.053	2.049	41.54	41.16	2.044	41.76	2.075	2.093	41.46
#2	2.049	2.047	41.46	41.14	2.045	41.50	2.071	2.090	41.32
#3	2.053	2.049	41.30	41.13	2.040	41.36	2.076	2.085	41.38
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**2.073**	**2.054**	**2.060**	**2.055**	**1.517**	**2.078**	**2.084**	**2.068**	**2.069**
Stddev	.001	.003	.004	.006	.004	.003	.035	.002	.004
%RSD	.0375	.1232	.1802	.3007	.2346	.1218	1.681	.0808	.2065
#1	2.074	2.051	2.063	2.056	1.521	2.076	2.118	2.070	2.072
#2	2.073	2.054	2.062	2.060	1.515	2.081	2.086	2.067	2.072
#3	2.072	2.056	2.056	2.048	1.514	2.077	2.048	2.067	2.064
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICV Acquired: 12/24/2024 10:20:05 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**2.077**	**2.084**
Stddev	.002	.003
%RSD	.1147	.1236
#1	2.075	2.081
#2	2.078	2.085
#3	2.079	2.085
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2902.7**	**7421.3**	**52364.**	**9882.7**
Stddev	5.8	13.2	106.	98.6
%RSD	.19964	.17780	.20229	.99790
#1	2908.9	7429.6	52381.	9777.9
#2	2897.4	7406.1	52250.	9896.5
#3	2901.7	7428.2	52460.	9973.7

Zoom In Zoom Out

Sample Name: ICB Acquired: 12/24/2024 10:26:14 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0084**	**.0012**	F **.0086**	**.0002**	**.0001**	**.0031**	**.0000**	**.0000**
Stddev	.0001	.0038	.0003	.0014	.0001	.0000	.0005	.0000	.0000
%RSD	49.09	45.91	22.30	16.59	37.54	5.330	15.14	113.8	34.35
#1	.0002	.0118	.0009	.0077	.0002	.0001	.0035	.0000	.0000
#2	.0001	.0042	.0012	.0102	.0002	.0001	.0026	.0000	.0001
#3	.0004	.0091	.0014	.0078	.0001	.0001	.0031	.0001	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0002**	**.0033**	**.0324**	F **.0015**	**-.0064**	**.0001**	**.0007**	**.0104**
Stddev	.0001	.0002	.0024	.0131	.0003	.0074	.0000	.0001	.0064
%RSD	80.79	120.7	72.70	40.54	23.19	116.0	29.98	15.60	61.63
#1	.0002	.0003	.0013	.0471	.0012	-.0009	.0001	.0008	.0050
#2	.0000	.0004	.0059	.0220	.0014	-.0035	.0001	.0006	.0088
#3	.0002	-.0001	.0026	.0280	.0019	-.0149	.0001	.0007	.0175
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					.0010				
Low Limit					-.0010				

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0007**	**.0002**	**.0007**	**.0034**	**.0005**	**.0001**	**.0001**	F **.0022**
Stddev	.0001	.0003	.0002	.0005	.0004	.0002	.0000	.0002	.0010
%RSD	122.5	41.62	97.86	77.30	10.62	42.59	29.07	230.9	45.76
#1	.0000	-.0010	.0004	.0013	.0031	.0004	.0001	.0003	.0023
#2	.0002	-.0005	.0003	.0005	.0038	.0007	.0001	-.0001	.0012
#3	.0001	-.0005	.0000	.0002	.0032	.0003	.0001	.0001	.0032
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Fail
High Limit									.0020
Low Limit									-.0020

Zoom In Zoom Out

Sample Name: ICB Acquired: 12/24/2024 10:26:14 Type: QC
Method: 60102007_COMBO_102422(v377) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.0001**	**.0000**
Stddev	.0000	.0001
%RSD	33.84	274.5
#1	.0001	.0001
#2	.0001	.0000
#3	.0002	.0000
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3484.5**	**7827.1**	**55806.**	**10014.**
Stddev	14.2	34.6	170.	83.
%RSD	.40740	.44260	.30467	.82772
#1	3500.9	7865.4	55611.	9928.8
#2	3475.7	7818.1	55885.	10019.
#3	3477.1	7797.9	55922.	10094.

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/24/2024 10:31:18 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**520.2**	**.0000**	F **-.0019**	**-.0005**	**.0000**	**494.0**	**-.0004**
Stddev	.000	.6	.0004	.0008	.0003	.0000	4.5	.0002
%RSD	3807.	.1200	2201.	42.83	53.69	93.31	.9021	56.45
#1	.0005	519.6	.0000	-.0018	-.0006	.0000	498.7	-.0006
#2	-.0004	520.8	-.0004	-.0028	-.0007	.0000	489.9	-.0001
#3	-.0001	520.3	.0005	-.0011	-.0002	.0001	493.2	-.0005
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0007**	**.0005**	**-.0003**	F **476.1**	**-.0162**	F **.0022**	**546.6**	**-.0008**
Stddev	.0002	.0005	.0001	2.3	.0157	.0002	1.5	.0001
%RSD	27.85	96.20	44.95	.4837	96.81	9.357	.2674	13.24
#1	-.0008	.0010	-.0004	477.2	.0015	.0024	547.3	-.0007
#2	-.0005	.0001	-.0002	473.4	-.0283	.0020	545.0	-.0008
#3	-.0007	.0004	-.0002	477.6	-.0220	.0023	547.7	-.0009
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	None	Chk Fail	Chk Pass	Chk Pass
High Limit				240.0		.0010		
Low Limit				160.0		-.0010		

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.3184**	**.0006**	**.0002**	**-.0001**	**-.0007**	**.0061**	**.0000**
Stddev	.0006	.0073	.0003	.0005	.0008	.0015	.0002	.0008
%RSD	173.6	2.308	50.27	311.2	968.6	228.9	3.648	8744.
#1	.0002	.3145	.0003	.0002	-.0010	.0011	.0063	.0008
#2	-.0002	.3269	.0006	.0007	.0007	-.0015	.0059	-.0008
#3	.0010	.3139	.0010	-.0003	.0001	-.0016	.0062	.0000
Check ?	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: ICSA Acquired: 12/24/2024 10:31:18 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**-.0002**	**-.0014**	**.0000**	**.0000**	**.0000**
Stddev	.0000	.0002	.0038	.000	.0001
%RSD	22.98	11.81	8479.	551.5	793.5
#1	-.0001	-.0012	.0018	.0000	.0001
#2	-.0002	-.0014	.0026	.0001	-.0001
#3	-.0002	-.0015	-.0044	-.0002	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2017.0**	**6536.8**	**45636.**	**9265.1**
Stddev	11.8	8.6	120.	17.5
%RSD	.58585	.13115	.26331	.18917
#1	2008.4	6531.3	45561.	9249.8
#2	2012.2	6532.4	45774.	9284.2
#3	2030.5	6546.7	45572.	9261.1

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/24/2024 10:40:31 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.067**	**522.5**	**1.019**	**1.009**	**.5005**	**.4938**	**492.7**	**.9635**	**.4686**
Stddev	.001	2.7	.001	.004	.0017	.0012	3.9	.0010	.0004
%RSD	.1029	.5227	.1301	.4162	.3362	.2493	.7869	.1041	.0774
#1	1.065	525.6	1.018	1.014	.5022	.4952	492.9	.9632	.4685
#2	1.067	520.8	1.021	1.007	.5004	.4934	496.5	.9627	.4684
#3	1.067	521.0	1.020	1.006	.4989	.4929	488.7	.9646	.4690
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.4799**	**.5360**	**181.5**	**-.0174**	**1.017**	**533.5**	**.5208**	**.9479**	**.3123**
Stddev	.0027	.0012	1.1	.0235	.003	.2	.0020	.0016	.0029
%RSD	.5711	.2184	.5848	135.5	.3204	.0353	.3823	.1713	.9178
#1	.4799	.5349	181.4	-.0311	1.021	533.6	.5210	.9462	.3104
#2	.4771	.5372	182.6	.0098	1.016	533.5	.5187	.9494	.3156
#3	.4826	.5359	180.5	-.0308	1.014	533.2	.5226	.9482	.3110
Check ?	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.8999**	**1.051**	**1.015**	**.9459**	**.0575**	**.9035**	**.9776**	**1.014**	**1.000**
Stddev	.0004	.001	.004	.0032	.0002	.0011	.0026	.002	.001
%RSD	.0431	.1108	.3850	.3389	.3150	.1205	.2643	.1907	.0716
#1	.8997	1.051	1.011	.9439	.0573	.9041	.9806	1.014	1.001
#2	.9004	1.052	1.019	.9442	.0574	.9022	.9759	1.012	.9996
#3	.8997	1.050	1.016	.9496	.0577	.9041	.9765	1.016	1.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	None	None	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: ICSAB Acquired: 12/24/2024 10:40:31 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.5120**	**.9425**
Stddev	.0016	.0012
%RSD	.3207	.1258
#1	.5104	.9438
#2	.5119	.9418
#3	.5137	.9418
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2345.9**	**6741.2**	**46958.**	**9498.1**
Stddev	2.6	1.5	232.	29.0
%RSD	.11272	.02212	.49362	.30494
#1	2344.3	6739.5	47058.	9531.5
#2	2344.3	6742.1	47123.	9481.9
#3	2348.9	6742.0	46693.	9480.8

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 10:47:41 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2499**	**39.90**	**1.973**	**1.926**	**2.020**	**1.983**	**40.42**	**1.982**	**1.970**
Stddev	.0003	.02	.002	.002	.004	.007	.04	.001	.000
%RSD	.1230	.0449	.1116	.1151	.1789	.3419	.0906	.0580	.0219
#1	.2496	39.89	1.971	1.928	2.024	1.975	40.42	1.981	1.969
#2	.2498	39.92	1.974	1.926	2.017	1.988	40.45	1.982	1.970
#3	.2502	39.90	1.975	1.923	2.020	1.985	40.38	1.983	1.970
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.953**	**1.938**	**39.36**	**39.63**	**1.955**	**39.86**	**2.012**	**1.981**	**40.22**
Stddev	.005	.004	.17	.07	.005	.19	.003	.003	.04
%RSD	.2353	.1861	.4217	.1817	.2550	.4657	.1451	.1409	.0990
#1	1.958	1.938	39.18	39.55	1.949	39.67	2.015	1.978	40.27
#2	1.954	1.935	39.51	39.67	1.958	40.04	2.012	1.982	40.19
#3	1.949	1.942	39.39	39.68	1.957	39.88	2.010	1.982	40.21
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.983**	**1.971**	**1.964**	**1.969**	**1.743**	**1.986**	**1.963**	**2.001**	**1.997**
Stddev	.004	.004	.002	.003	.001	.004	.024	.004	.006
%RSD	.1882	.2053	.0969	.1383	.0795	.1823	1.202	.1856	.2944
#1	1.979	1.966	1.962	1.972	1.742	1.983	1.944	2.005	1.991
#2	1.985	1.973	1.965	1.969	1.745	1.990	1.989	2.002	2.001
#3	1.986	1.974	1.965	1.966	1.744	1.987	1.956	1.997	2.000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 10:47:41 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**2.003**	**2.005**
Stddev	.002	.003
%RSD	.1094	.1693
#1	2.005	2.002
#2	2.004	2.005
#3	2.001	2.009
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2932.0**	**7505.5**	**52941.**	**9881.7**
Stddev	10.2	19.3	66.	43.6
%RSD	.34821	.25702	.12531	.44122
#1	2943.7	7527.5	52951.	9926.0
#2	2924.8	7491.2	52870.	9838.8
#3	2927.5	7497.9	53002.	9880.3

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 10:54:06 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0079**	**-.0002**	F **.0029**	**.0001**	**.0001**	**.0024**	**.0000**
Stddev	.000	.0012	.0012	.0010	.0001	.0000	.0012	.0000
%RSD	5823.	15.58	733.0	33.52	108.0	50.49	48.69	56.01
#1	.0000	.0092	-.0015	.0017	.0000	.0001	.0021	.0000
#2	.0002	.0077	.0009	.0034	.0001	.0000	.0015	.0000
#3	-.0002	.0067	.0001	.0034	.0002	.0001	.0037	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0002**	**.0003**	**.0025**	**-.0068**	F **-.0011**	**-.0083**	**.0000**
Stddev	.0001	.0001	.0002	.0013	.0220	.0007	.0032	.0000
%RSD	283.9	39.55	45.83	49.61	323.2	65.46	38.65	151.7
#1	.0001	.0001	.0003	.0029	-.0318	-.0012	-.0090	.0000
#2	.0000	.0002	.0005	.0011	.0021	-.0003	-.0111	.0000
#3	.0000	.0003	.0002	.0035	.0093	-.0018	-.0048	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						.0010		
Low Limit						-.0010		

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0046**	**-.0001**	**-.0002**	**-.0005**	**.0010**	**-.0005**	**-.0002**
Stddev	.0002	.0061	.0000	.0004	.0007	.0009	.0003	.0003
%RSD	47.69	130.8	61.65	242.0	156.3	91.46	50.77	190.2
#1	.0005	.0114	.0000	.0001	-.0003	.0019	-.0008	.0000
#2	.0006	-.0002	-.0001	.0000	-.0013	.0001	-.0003	-.0005
#3	.0002	.0026	.0000	-.0006	.0002	.0010	-.0005	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 10:54:06 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**-.0001**	**.0009**	**.0002**	**.0000**
Stddev	.0000	.0001	.0007	.0001	.0001
%RSD	183.7	103.5	82.52	27.34	189.7
#1	.0000	-.0002	.0010	.0003	.0000
#2	.0001	.0000	.0016	.0003	.0001
#3	.0000	-.0002	.0001	.0002	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3513.1**	**7895.5**	**55923.**	**10024.**
Stddev	6.0	14.0	194.	68.
%RSD	.17056	.17786	.34657	.67625
#1	3514.2	7910.4	56135.	10004.
#2	3506.6	7882.5	55878.	10099.
#3	3518.4	7893.5	55755.	9967.9

Zoom In Zoom Out

Sample Name: MP45051-MB1 Acquired: 12/24/2024 10:59:07 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0157**	**-.0001**	**.0027**	**.0001**	**.0000**	**.0092**	**.0000**	**-.0001**
Stddev	.0001	.0070	.0007	.0014	.0000	.0000	.0011	.000	.0001
%RSD	27.22	44.32	653.1	51.53	23.35	83.45	11.89	73.32	155.8
#1	.0002	.0101	-.0004	.0013	.0001	.0000	.0081	-.0001	.0000
#2	.0003	.0135	.0006	.0040	.0001	.0000	.0091	.0000	-.0002
#3	.0004	.0235	-.0006	.0028	.0001	.0000	.0103	.0000	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0007**	**.0123**	**-.0390**	**.0008**	**-.0064**	**.0001**	**.0001**	**.0105**
Stddev	.0001	.0001	.0003	.0105	.0014	.0212	.0000	.0001	.0106
%RSD	26.79	19.97	2.123	26.87	168.4	330.0	22.87	105.7	101.2
#1	.0002	.0008	.0122	-.0476	.0022	.0143	.0001	.0002	.0092
#2	.0004	.0006	.0126	-.0273	-.0006	-.0055	.0001	.0001	.0006
#3	.0003	.0009	.0121	-.0420	.0008	-.0281	.0001	.0000	.0216
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**-.0005**	**.0001**	**-.0008**	**.0494**	**.0001**	**.0000**	**.0000**	**.0002**
Stddev	.0001	.0003	.0007	.0008	.0006	.0003	.0000	.0001	.0012
%RSD	113.5	58.64	685.1	104.3	1.277	314.3	82.78	374.6	806.7
#1	.0001	-.0002	.0004	-.0014	.0487	-.0002	.0000	-.0001	-.0011
#2	.0000	-.0009	-.0007	.0001	.0499	.0003	.0000	.0000	.0014
#3	.0002	-.0005	.0006	-.0011	.0497	.0002	.0000	.0001	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: MP45051-MB1 Acquired: 12/24/2024 10:59:07 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.0001**	**.0023**
Stddev	.0002	.0001
%RSD	106.9	5.056
#1	.0000	.0024
#2	.0002	.0022
#3	.0003	.0023
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3454.9**	**7802.5**	**56477.**	**10062.**
Stddev	1.2	10.0	14.	39.
%RSD	.03354	.12838	.02411	.38897
#1	3455.1	7813.4	56462.	10077.
#2	3453.6	7800.5	56487.	10018.
#3	3455.9	7793.7	56483.	10092.

Zoom In Zoom Out

Sample Name: MP45051-B1 Acquired: 12/24/2024 11:04:17 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0521**	**29.14**	**2.041**	F **.5168**	**2.209**	**.0530**	**27.23**	**.0520**	**.5246**
Stddev	.0001	.02	.003	.0028	.001	.0001	.04	.0001	.0008
%RSD	.2747	.0751	.1265	.5433	.0531	.1413	.1584	.1139	.1458
#1	.0522	29.15	2.038	.5178	2.209	.0530	27.19	.0520	.5237
#2	.0522	29.11	2.041	.5136	2.208	.0530	27.28	.0521	.5252
#3	.0519	29.16	2.043	.5189	2.210	.0529	27.23	.0520	.5249
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value				.0500					
Range				20.00%					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2072**	**.2618**	**27.14**	**26.49**	F **.5311**	**26.27**	**.5395**	**.5269**	**27.35**
Stddev	.0003	.0007	.05	.04	.0020	.11	.0007	.0003	.01
%RSD	.1321	.2731	.2013	.1585	.3675	.4232	.1225	.0627	.0528
#1	.2070	.2622	27.11	26.51	.5317	26.21	.5391	.5266	27.34
#2	.2071	.2623	27.20	26.53	.5327	26.40	.5403	.5269	27.34
#3	.2075	.2610	27.10	26.45	.5290	26.20	.5391	.5273	27.36
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value					.0500				
Range					20.00%				

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5229**	**.5016**	**.5407**	**2.036**	**.2825**	**.5351**	**.5292**	**.5361**	**2.012**
Stddev	.0004	.0007	.0030	.007	.0003	.0004	.0010	.0005	.002
%RSD	.0752	.1388	.5583	.3513	.0895	.0837	.1954	.1021	.1082
#1	.5224	.5008	.5384	2.029	.2827	.5351	.5297	.5360	2.011
#2	.5229	.5020	.5441	2.043	.2823	.5356	.5299	.5367	2.011
#3	.5232	.5020	.5395	2.035	.2826	.5347	.5280	.5356	2.015
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: MP45051-B1 Acquired: 12/24/2024 11:04:17 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.5213**	**.5260**
Stddev	.0011	.0006
%RSD	.2079	.1169
#1	.5214	.5266
#2	.5223	.5260
#3	.5202	.5253
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3038.0**	**7465.7**	**53602.**	**10031.**
Stddev	3.6	5.2	115.	53.
%RSD	.12008	.07024	.21492	.52629
#1	3038.9	7465.3	53692.	10055.
#2	3041.1	7471.1	53643.	9970.5
#3	3034.0	7460.6	53472.	10067.

Zoom In Zoom Out

Sample Name: FC21146-1 Acquired: 12/24/2024 11:29:50 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.2016**	**.0005**	**.0445**	**.0151**	**.0000**	**61.81**	**.0001**	**.0000**
Stddev	.0002	.0105	.0006	.0005	.0001	.0000	.15	.0000	.0000
%RSD	294.8	5.200	120.7	1.179	.8345	588.0	.2431	77.85	155.6
#1	.0003	.1966	.0010	.0442	.0149	.0000	61.77	.0000	.0001
#2	.0002	.2137	-.0002	.0451	.0152	.0000	61.97	.0001	.0000
#3	-.0002	.1946	.0007	.0442	.0150	.0000	61.67	.0001	.0000

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0008**	**.0075**	**.4794**	**4.068**	**.0066**	**11.71**	**.0191**	**.0022**	**44.41**
Stddev	.0002	.0001	.0035	.003	.0011	.02	.0000	.0000	.09
%RSD	26.20	1.824	.7237	.0628	16.64	.1920	.1474	1.821	.2082
#1	.0010	.0076	.4770	4.071	.0058	11.73	.0191	.0022	44.35
#2	.0008	.0074	.4834	4.066	.0079	11.72	.0191	.0022	44.52
#3	.0006	.0076	.4779	4.067	.0062	11.69	.0191	.0022	44.37

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**-.0004**	**-.0008**	**-.0009**	**2.564**	**.0004**	**.6537**	**.0063**	**.0019**
Stddev	.0000	.0006	.0006	.0001	.002	.0002	.0004	.0002	.0009
%RSD	2.659	164.0	82.69	16.01	.0584	69.00	.0609	2.665	46.78
#1	.0010	.0000	-.0015	-.0008	2.565	.0003	.6533	.0063	.0023
#2	.0010	-.0011	-.0006	-.0008	2.563	.0001	.6540	.0065	.0026
#3	.0010	.0000	-.0003	-.0011	2.563	.0006	.6538	.0062	.0009

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0016**	**.1406**
Stddev	.0001	.0002
%RSD	4.986	.1734
#1	.0017	.1404
#2	.0015	.1406
#3	.0016	.1409

Zoom In Zoom Out

Sample Name: FC21146-1 Acquired: 12/24/2024 11:29:50 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3153.7**	**7435.0**	**54165.**	**10265.**
Stddev	6.7	7.6	39.	46.
%RSD	.21299	.10189	.07286	.44575
#1	3160.0	7443.3	54210.	10239.
#2	3154.5	7428.4	54138.	10238.
#3	3146.7	7433.3	54146.	10318.

Zoom In Zoom Out

Sample Name: MP45051-D1 Acquired: 12/24/2024 11:34:54 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.2040**	**.0001**	**.0428**	**.0151**	**.0000**	**61.30**	**.0000**	**.0000**
Stddev	.0002	.0060	.0007	.0011	.0001	.000	.06	.0000	.0000
%RSD	148.2	2.948	524.0	2.549	.4149	60.26	.0941	129.2	67.69
#1	-.0001	.2051	.0009	.0416	.0152	-.0001	61.37	.0001	.0000
#2	.0001	.1975	-.0004	.0435	.0151	.0000	61.29	.0000	.0000
#3	.0004	.2094	-.0001	.0434	.0151	.0000	61.25	.0000	.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0075**	**.4991**	**3.726**	**.0047**	**11.63**	**.0190**	**.0021**	**44.09**
Stddev	.0003	.0002	.0047	.018	.0002	.03	.0001	.0001	.06
%RSD	25.79	2.096	.9460	.4692	4.778	.2849	.3798	4.545	.1389
#1	.0013	.0074	.5032	3.709	.0046	11.60	.0190	.0021	44.16
#2	.0010	.0076	.4940	3.744	.0046	11.65	.0189	.0021	44.08
#3	.0008	.0074	.5001	3.725	.0050	11.66	.0189	.0023	44.04

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0011**	**-.0008**	**.0004**	**-.0006**	**2.543**	**.0002**	**.6510**	**.0062**	**-.0001**
Stddev	.0002	.0003	.0006	.0003	.005	.0001	.0013	.0001	.0011
%RSD	14.97	41.17	136.9	46.24	.2073	43.11	.1996	1.172	1093.
#1	.0009	-.0011	.0007	-.0008	2.541	.0002	.6521	.0061	.0009
#2	.0011	-.0004	.0009	-.0003	2.538	.0001	.6514	.0063	.0001
#3	.0012	-.0009	-.0002	-.0009	2.548	.0003	.6496	.0062	-.0012

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0018**	**.1374**
Stddev	.0001	.0002
%RSD	6.919	.1718
#1	.0018	.1376
#2	.0017	.1371
#3	.0019	.1374

Zoom In Zoom Out

Sample Name: MP45051-D1 Acquired: 12/24/2024 11:34:54 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3159.6**	**7451.2**	**54431.**	**10253.**
Stddev	4.0	5.5	134.	22.
%RSD	.12806	.07385	.24565	.21462
#1	3155.2	7445.9	54493.	10230.
#2	3160.3	7456.9	54277.	10274.
#3	3163.2	7450.9	54522.	10254.

Zoom In Zoom Out

Sample Name: MP45051-SD1 Acquired: 12/24/2024 11:39:58 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 5.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.3512**	**-.0002**	**.0378**	**.0137**	**.0001**	**56.17**	**.0000**	**-.0004**
Stddev	.0017	.0505	.0034	.0035	.0004	.0002	.10	.0002	.0002
%RSD	277.3	14.38	1990.	9.357	2.598	168.3	.1856	86810.	46.35
#1	-.0001	.3895	-.0028	.0418	.0137	.0001	56.06	-.0002	-.0005
#2	.0025	.3701	-.0013	.0350	.0140	.0003	56.26	.0001	-.0005
#3	-.0006	.2940	.0037	.0366	.0133	-.0001	56.20	.0001	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0010**	**.0093**	**.4542**	**3.557**	**-.0030**	**10.88**	**.0176**	**.0013**	**39.76**
Stddev	.0011	.0013	.0112	.068	.0017	.04	.0000	.0003	.10
%RSD	104.7	13.94	2.456	1.918	57.43	.3659	.1224	22.70	.2487
#1	-.0001	.0091	.4416	3.634	-.0049	10.92	.0176	.0011	39.67
#2	.0012	.0106	.4578	3.504	-.0025	10.87	.0175	.0016	39.87
#3	.0020	.0081	.4630	3.533	-.0016	10.84	.0176	.0011	39.73

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0016**	**-.0013**	**.0019**	**-.0016**	**2.290**	**-.0020**	**.5962**	**.0084**	**-.0035**
Stddev	.0006	.0016	.0017	.0066	.002	.0005	.0017	.0001	.0104
%RSD	39.40	119.1	86.86	406.8	.0926	26.91	.2923	1.269	297.3
#1	.0015	-.0011	.0028	.0001	2.292	-.0024	.5947	.0084	.0024
#2	.0011	-.0030	.0000	-.0088	2.292	-.0023	.5981	.0083	-.0155
#3	.0023	.0001	.0029	.0039	2.288	-.0014	.5958	.0085	.0026

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0020**	**.1323**
Stddev	.0003	.0008
%RSD	17.06	.5873
#1	.0023	.1332
#2	.0020	.1322
#3	.0016	.1316

Zoom In Zoom Out

Sample Name: MP45051-SD1 Acquired: 12/24/2024 11:39:58 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 5.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3479.3**	**7939.3**	**57623.**	**10532.**
Stddev	7.5	26.5	204.	69.
%RSD	.21598	.33317	.35359	.65961
#1	3486.8	7967.7	57858.	10606.
#2	3479.2	7934.9	57495.	10521.
#3	3471.8	7915.4	57516.	10469.

Zoom In Zoom Out

Sample Name: MP45051-PS1 Acquired: 12/24/2024 11:45:05 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0456**	**2.884**	**.1070**	**.1532**	**.2846**	**.0519**	**65.42**	**.0519**	**.0526**
Stddev	.0002	.001	.0003	.0010	.0003	.0001	.05	.0000	.0001
%RSD	.4724	.0421	.2681	.6616	.1025	.2533	.0750	.0743	.1987
#1	.0455	2.883	.1072	.1543	.2843	.0518	65.44	.0519	.0526
#2	.0458	2.885	.1067	.1531	.2849	.0518	65.46	.0518	.0526
#3	.0454	2.885	.1072	.1523	.2845	.0520	65.36	.0519	.0528

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0516**	**.1101**	**3.533**	**13.97**	**.1080**	**16.64**	**.0713**	**.1067**	**54.29**
Stddev	.0001	.0001	.015	.04	.0015	.00	.0000	.0002	.03
%RSD	.1955	.0924	.4257	.3033	1.423	.0119	.0644	.2130	.0637
#1	.0515	.1100	3.516	13.92	.1063	16.64	.0713	.1067	54.31
#2	.0517	.1102	3.537	13.99	.1093	16.64	.0714	.1065	54.32
#3	.0516	.1101	3.545	14.00	.1084	16.64	.0714	.1070	54.25

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.1049**	**.0477**	**.1082**	**.1004**	**2.536**	**.0524**	**.6896**	**.1137**	**.0970**
Stddev	.0002	.0002	.0008	.0008	.003	.0001	.0018	.0002	.0004
%RSD	.2225	.4196	.7117	.7869	.1224	.1376	.2611	.1566	.3817
#1	.1046	.0476	.1074	.1013	2.536	.0523	.6881	.1139	.0972
#2	.1050	.0475	.1088	.0998	2.533	.0523	.6890	.1135	.0966
#3	.1050	.0479	.1086	.1002	2.539	.0524	.6916	.1137	.0973

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0537**	**.3991**
Stddev	.0001	.0001
%RSD	.1025	.0320
#1	.0537	.3991
#2	.0537	.3990
#3	.0536	.3993

Zoom In Zoom Out

Sample Name: MP45051-PS1 Acquired: 12/24/2024 11:45:05 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3080.5**	**7368.1**	**53704.**	**10194.**
Stddev	1.0	5.7	92.	12.
%RSD	.03105	.07712	.17062	.11541
#1	3080.7	7367.5	53619.	10184.
#2	3081.3	7374.0	53801.	10193.
#3	3079.4	7362.7	53693.	10207.

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 11:50:03 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2521**	**40.13**	**1.996**	**1.969**	**2.046**	**1.987**	**39.91**	**1.972**	**1.972**
Stddev	.0003	.06	.004	.014	.005	.007	.04	.004	.004
%RSD	.1008	.1554	.2215	.7310	.2283	.3534	.0960	.1907	.2208
#1	.2520	40.19	1.993	1.953	2.046	1.994	39.94	1.969	1.968
#2	.2524	40.07	1.995	1.975	2.041	1.987	39.87	1.972	1.971
#3	.2519	40.15	2.001	1.980	2.050	1.980	39.93	1.976	1.976
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.926**	**1.968**	**39.00**	**39.84**	**1.991**	**38.98**	**1.999**	**1.981**	**40.43**
Stddev	.008	.002	.17	.15	.008	.10	.005	.002	.07
%RSD	.4155	.1119	.4246	.3690	.3965	.2620	.2548	.1229	.1783
#1	1.932	1.969	39.17	40.01	1.999	39.06	2.003	1.979	40.42
#2	1.930	1.969	39.00	39.73	1.983	39.01	2.001	1.981	40.36
#3	1.917	1.966	38.84	39.78	1.990	38.87	1.993	1.983	40.50
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.978**	**1.962**	**1.996**	**1.989**	**1.776**	**1.980**	**1.970**	**2.003**	**2.002**
Stddev	.002	.003	.005	.005	.003	.006	.030	.003	.001
%RSD	.1050	.1506	.2570	.2588	.1894	.3097	1.536	.1471	.0443
#1	1.976	1.959	1.993	1.989	1.773	1.974	1.992	2.006	2.002
#2	1.977	1.964	1.994	1.984	1.775	1.980	1.981	2.003	2.003
#3	1.980	1.963	2.002	1.994	1.780	1.986	1.935	2.000	2.002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 11:50:03 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**1.999**	**1.976**
Stddev	.003	.002
%RSD	.1642	.0981
#1	2.002	1.974
#2	1.999	1.978
#3	1.995	1.977
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2985.0**	**7603.7**	**54330.**	**10332.**
Stddev	5.6	23.8	255.	28.
%RSD	.18873	.31295	.46985	.26890
#1	2991.5	7627.9	54081.	10300.
#2	2982.0	7602.9	54318.	10352.
#3	2981.5	7580.3	54592.	10343.

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 11:55:03 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0076**	**.0003**	F **.0027**	**.0001**	**.0001**	**.0049**	**.0000**
Stddev	.0001	.0050	.0003	.0008	.0001	.0000	.0019	.0000
%RSD	29.02	65.81	104.6	29.15	90.54	13.00	39.55	98.55
#1	.0003	.0028	.0006	.0033	.0000	.0001	.0062	.0001
#2	.0002	.0128	.0000	.0018	.0002	.0001	.0057	.0000
#3	.0004	.0073	.0004	.0031	.0000	.0001	.0027	.0000
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010				
Low Limit				-.0010				

Elem	Co2286	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0003**	**.0008**	**.0035**	**.0322**	F **-.0016**	**-.0002**	**.0001**
Stddev	.0001	.0001	.0002	.0009	.0130	.0009	.0119	.0000
%RSD	71.04	25.67	30.03	27.33	40.45	59.16	7594.	28.68
#1	.0000	.0003	.0008	.0030	.0238	-.0016	-.0021	.0002
#2	.0001	.0004	.0005	.0028	.0472	-.0025	-.0110	.0001
#3	.0002	.0003	.0010	.0045	.0255	-.0006	.0126	.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass
High Limit						.0010		
Low Limit						-.0010		

Elem	Mo2020	Na5895	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0006**	**.0156**	**.0002**	**-.0001**	**.0004**	**.0000**	**.0002**	**.0000**
Stddev	.0000	.0048	.0001	.0002	.0009	.0016	.0004	.0004
%RSD	6.723	31.02	61.46	104.7	248.8	18620.	182.5	1261.
#1	.0006	.0188	.0000	.0000	-.0002	.0014	.0005	-.0004
#2	.0007	.0100	.0002	-.0002	-.0001	.0005	-.0002	.0001
#3	.0006	.0180	.0002	-.0003	.0014	-.0018	.0003	.0004
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass
High Limit								
Low Limit								

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 11:55:03 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Sr4077	Ti3349	Tl1908	V_2924	Zn2062
Units	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.0001**	**.0011**	**.0004**	**.0012**
Stddev	.0000	.0001	.0013	.0001	.0001
%RSD	25.59	103.3	115.4	28.36	4.313
#1	.0001	.0000	.0026	.0004	.0012
#2	.0001	.0001	.0008	.0002	.0012
#3	.0001	.0001	.0000	.0004	.0011
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit					
Low Limit					

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3561.9**	**7995.2**	**58032.**	**10486.**
Stddev	2.1	11.3	83.	41.
%RSD	.05894	.14138	.14362	.39144
#1	3564.2	8006.1	58109.	10532.
#2	3561.6	7996.1	57943.	10454.
#3	3560.0	7983.5	58045.	10471.

Zoom In Zoom Out

Sample Name: MP45051-S1 Acquired: 12/24/2024 12:00:15 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0526**	**29.10**	**2.078**	F **.5685**	**2.229**	**.0526**	**84.96**	**.0512**	**.5162**
Stddev	.0001	.05	.002	.0060	.003	.0002	.30	.0000	.0003
%RSD	.1988	.1637	.0959	1.055	.1372	.4582	.3529	.0903	.0510
#1	.0525	29.13	2.076	.5641	2.233	.0528	85.18	.0512	.5159
#2	.0526	29.04	2.078	.5753	2.227	.0524	84.62	.0512	.5164
#3	.0527	29.12	2.080	.5661	2.227	.0526	85.08	.0513	.5161

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2047**	**.2680**	**26.84**	**30.05**	F **.5413**	**36.32**	**.5519**	**.5276**	**69.94**
Stddev	.0004	.0003	.08	.05	.0019	.22	.0001	.0008	.21
%RSD	.2036	.0999	.2973	.1779	.3550	.5999	.0221	.1537	.2964
#1	.2042	.2679	26.90	30.11	.5413	36.44	.5518	.5270	70.11
#2	.2050	.2678	26.75	30.01	.5393	36.07	.5519	.5272	69.71
#3	.2049	.2683	26.87	30.03	.5432	36.46	.5520	.5285	69.99

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5129**	**.4989**	**.5428**	**2.055**	**2.736**	**.5253**	**1.159**	**.5390**	**1.993**
Stddev	.0002	.0008	.0019	.006	.006	.0005	.002	.0006	.006
%RSD	.0345	.1661	.3498	.3069	.2039	.0897	.2099	.1117	.3147
#1	.5127	.4994	.5414	2.050	2.732	.5249	1.161	.5383	1.986
#2	.5129	.4993	.5419	2.062	2.733	.5258	1.157	.5391	1.999
#3	.5131	.4979	.5449	2.052	2.742	.5252	1.161	.5395	1.994

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.5228**	**.6392**
Stddev	.0010	.0006
%RSD	.1911	.0970
#1	.5217	.6398
#2	.5232	.6392
#3	.5236	.6385

Zoom In Zoom Out

Sample Name: MP45051-S1 Acquired: 12/24/2024 12:00:15 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2934.4**	**7376.5**	**53266.**	**10290.**
Stddev	2.4	3.1	57.	98.
%RSD	.08104	.04178	.10663	.95669
#1	2931.7	7377.3	53323.	10239.
#2	2935.8	7379.1	53210.	10404.
#3	2935.7	7373.1	53264.	10228.

Zoom In Zoom Out

Sample Name: MP45051-S2 Acquired: 12/24/2024 12:05:08 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0529**	**29.31**	**2.096**	F **.5676**	**2.251**	**.0531**	**86.18**	**.0517**	**.5215**
Stddev	.0001	.05	.003	.0075	.003	.0000	.26	.0000	.0002
%RSD	.1423	.1580	.1333	1.316	.1436	.0213	.2974	.0911	.0359
#1	.0528	29.35	2.097	.5593	2.251	.0531	86.47	.0516	.5213
#2	.0528	29.33	2.098	.5738	2.254	.0531	86.08	.0517	.5216
#3	.0529	29.26	2.093	.5697	2.247	.0531	85.98	.0517	.5216

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2075**	**.2719**	**26.79**	**30.15**	F **.5435**	**36.53**	**.5586**	**.5296**	**70.73**
Stddev	.0003	.0006	.05	.06	.0003	.18	.0003	.0005	.15
%RSD	.1360	.2134	.1845	.2150	.0479	.4803	.0562	.0979	.2069
#1	.2079	.2726	26.85	30.21	.5437	36.73	.5590	.5291	70.87
#2	.2075	.2714	26.77	30.17	.5437	36.46	.5583	.5301	70.75
#3	.2073	.2718	26.75	30.08	.5432	36.40	.5586	.5296	70.57

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.5180**	**.5031**	**.5448**	**2.072**	**2.779**	**.5279**	**1.170**	**.5431**	**2.006**
Stddev	.0004	.0001	.0008	.002	.001	.0005	.003	.0009	.003
%RSD	.0803	.0204	.1495	.1063	.0406	.0855	.2693	.1604	.1231
#1	.5176	.5032	.5438	2.070	2.780	.5276	1.172	.5441	2.005
#2	.5184	.5031	.5454	2.074	2.780	.5284	1.172	.5427	2.005
#3	.5179	.5031	.5451	2.071	2.778	.5277	1.166	.5425	2.009

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.5290**	**.6468**
Stddev	.0004	.0006
%RSD	.0734	.0851
#1	.5289	.6463
#2	.5287	.6474
#3	.5295	.6466

Zoom In Zoom Out

Sample Name: MP45051-S2 Acquired: 12/24/2024 12:05:08 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2944.3**	**7392.5**	**53252.**	**10255.**
Stddev	7.7	15.4	6.	87.
%RSD	.26090	.20875	.01212	.84379
#1	2951.5	7409.0	53246.	10156.
#2	2945.3	7390.1	53259.	10314.
#3	2936.2	7378.4	53251.	10296.

Zoom In Zoom Out

Sample Name: FC21155-1 Acquired: 12/24/2024 12:10:01 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0001**	**.6306**	**.0000**	**.0298**	**.0192**	**.0000**	**64.74**	**.0000**	**.0001**
Stddev	.0002	.0071	.0010	.0013	.0000	.0000	.13	.0000	.0001
%RSD	192.7	1.122	2497.	4.425	.1677	95.43	.2023	1.617	69.32
#1	-.0001	.6232	.0007	.0310	.0192	.0000	64.70	.0000	.0000
#2	.0001	.6373	-.0011	.0300	.0192	.0000	64.88	.0000	.0001
#3	.0004	.6313	.0005	.0284	.0192	.0000	64.63	.0000	.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0098**	**.0012**	**1.432**	**1.032**	**.0022**	**17.13**	**.1013**	**.0024**	**27.10**
Stddev	.0001	.0000	.004	.020	.0014	.08	.0002	.0001	.06
%RSD	1.205	3.116	.2935	1.958	65.64	.4605	.1626	4.108	.2198
#1	.0096	.0012	1.434	1.055	.0021	17.04	.1012	.0025	27.09
#2	.0099	.0011	1.435	1.020	.0008	17.20	.1015	.0023	27.16
#3	.0098	.0011	1.427	1.020	.0036	17.14	.1012	.0024	27.04

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**.0104**	**.0025**	**-.0027**	**6.787**	**-.0001**	**.6708**	**.0103**	**.0029**
Stddev	.0001	.0002	.0007	.0024	.014	.0002	.0020	.0003	.0006
%RSD	4.049	1.987	26.95	88.06	.2087	195.5	.3051	2.733	19.71
#1	.0029	.0102	.0017	-.0053	6.803	.0000	.6708	.0106	.0035
#2	.0027	.0106	.0030	-.0022	6.777	.0000	.6729	.0102	.0024
#3	.0029	.0104	.0026	-.0006	6.781	-.0003	.6688	.0101	.0029

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0015**	**.0071**
Stddev	.0002	.0001
%RSD	11.50	.8993
#1	.0016	.0072
#2	.0013	.0071
#3	.0014	.0070

Zoom In Zoom Out

Sample Name: FC21155-1 Acquired: 12/24/2024 12:10:01 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3151.4**	**7470.9**	**54566.**	**10302.**
Stddev	1.2	4.3	192.	35.
%RSD	.03909	.05697	.35098	.34046
#1	3150.1	7466.1	54417.	10343.
#2	3151.6	7474.0	54500.	10279.
#3	3152.5	7472.7	54782.	10285.

Zoom In Zoom Out

Sample Name: FC21155-2 Acquired: 12/24/2024 12:15:04 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**4.016**	**.0329**	**.0943**	**.0031**	**.0003**	**32.14**	**.0004**	**.0009**
Stddev	.0001	.019	.0013	.0015	.0001	.0000	.13	.0000	.0001
%RSD	12.49	.4700	4.072	1.602	4.148	9.913	.4047	8.484	8.731
#1	.0005	3.995	.0344	.0956	.0031	.0003	32.10	.0004	.0009
#2	.0006	4.032	.0321	.0927	.0031	.0003	32.28	.0004	.0009
#3	.0005	4.022	.0321	.0947	.0029	.0003	32.03	.0003	.0008

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0055**	**.0021**	**2.374**	**12.37**	**.0047**	**10.16**	**.2207**	**.0013**	F **161.8**
Stddev	.0000	.0002	.009	.07	.0011	.06	.0003	.0001	.4
%RSD	.4145	7.526	.3819	.5356	22.69	.6098	.1286	4.183	.2360
#1	.0055	.0020	2.379	12.33	.0048	10.14	.2205	.0013	162.0
#2	.0055	.0020	2.380	12.45	.0036	10.23	.2210	.0012	161.3
#3	.0055	.0022	2.364	12.33	.0057	10.11	.2205	.0013	161.9

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0048**	**.0004**	**.0008**	**-.0026**	**27.29**	**.0009**	**.0669**	**.0133**	**.0043**
Stddev	.0000	.0003	.0012	.0018	.04	.0004	.0002	.0003	.0007
%RSD	1.010	77.52	141.1	68.83	.1283	38.42	.3594	2.354	16.56
#1	.0047	.0007	.0021	-.0045	27.25	.0010	.0671	.0130	.0042
#2	.0048	.0001	.0003	-.0024	27.30	.0005	.0670	.0131	.0036
#3	.0048	.0003	.0000	-.0009	27.32	.0012	.0667	.0136	.0050

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0037**	**.0247**
Stddev	.0001	.0000
%RSD	2.681	.0389
#1	.0037	.0246
#2	.0038	.0247
#3	.0036	.0246

Zoom In Zoom Out

Sample Name: FC21155-2 Acquired: 12/24/2024 12:15:04 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3019.8**	**7399.3**	**53294.**	**10264.**
Stddev	6.8	4.9	396.	49.
%RSD	.22571	.06609	.74256	.47870
#1	3026.7	7404.5	53702.	10287.
#2	3019.6	7394.8	52912.	10207.
#3	3013.1	7398.7	53268.	10296.

Zoom In Zoom Out

Sample Name: FC21158-1F Acquired: 12/24/2024 12:20:15 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0352**	**-.0004**	**-.0007**	**.0053**	**.0005**	**3.596**	**.0003**	**.0013**
Stddev	.0001	.0006	.0001	.0010	.0001	.0000	.002	.0000	.0000
%RSD	41.93	1.695	33.22	138.6	1.323	5.348	.0519	12.45	3.334
#1	.0003	.0358	-.0003	.0003	.0052	.0005	3.597	.0003	.0013
#2	.0001	.0352	-.0004	-.0008	.0053	.0005	3.597	.0003	.0014
#3	.0003	.0346	-.0006	-.0017	.0053	.0004	3.594	.0004	.0013

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0014**	**.0306**	**.3018**	**.0074**	**.7136**	**.1448**	**.0000**	**8.436**
Stddev	.0002	.0001	.0012	.0208	.0006	.0134	.0004	.0001	.003
%RSD	104.2	7.569	3.979	6.906	8.343	1.880	.2672	8684.	.0296
#1	.0000	.0014	.0302	.2777	.0070	.6985	.1443	-.0001	8.438
#2	.0002	.0013	.0297	.3140	.0070	.7181	.1450	-.0001	8.436
#3	.0003	.0015	.0320	.3136	.0081	.7242	.1450	.0000	8.433

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0035**	**-.0002**	**.0000**	**.0001**	**7.454**	**.0003**	**.0098**	**.0004**	**.0005**
Stddev	.0001	.0002	.0010	.0015	.013	.0003	.0000	.0000	.0013
%RSD	3.523	73.93	5905.	1808.	.1716	111.7	.4259	7.912	233.2
#1	.0034	-.0003	-.0008	.0018	7.462	.0006	.0099	.0004	.0020
#2	.0035	.0000	.0012	-.0005	7.439	.0000	.0098	.0004	-.0004
#3	.0036	-.0003	-.0003	-.0011	7.461	.0003	.0098	.0004	.0000

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0002**	**.0309**
Stddev	.0001	.0000
%RSD	54.17	.0943
#1	.0003	.0310
#2	.0002	.0309
#3	.0001	.0309

Zoom In Zoom Out

Sample Name: FC21158-1F Acquired: 12/24/2024 12:20:15 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3423.9**	**7757.2**	**57013.**	**10341.**
Stddev	2.2	13.2	267.	26.
%RSD	.06362	.16953	.46906	.24760
#1	3424.5	7760.0	57191.	10315.
#2	3425.8	7768.7	57142.	10340.
#3	3421.5	7742.9	56705.	10366.

Zoom In Zoom Out

Sample Name: FC21158-2F Acquired: 12/24/2024 12:25:22 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0957**	**-.0006**	**.0025**	**.0260**	**.0010**	**7.556**	**.0018**	**.0025**
Stddev	.0001	.0057	.0008	.0010	.0003	.0000	.006	.0000	.0000
%RSD	40.28	5.934	133.7	39.30	1.087	2.540	.0741	.3044	1.483
#1	.0001	.0906	-.0014	.0020	.0258	.0011	7.554	.0018	.0025
#2	.0003	.1018	.0001	.0036	.0258	.0010	7.563	.0018	.0026
#3	.0003	.0947	-.0004	.0018	.0263	.0010	7.552	.0018	.0025

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0019**	**.0930**	**.6493**	**.0114**	**1.427**	**.1277**	**-.0002**	**8.245**
Stddev	.0001	.0001	.0005	.0298	.0001	.008	.0001	.0001	.003
%RSD	66.01	4.320	.4937	4.596	.8509	.5474	.0868	32.44	.0416
#1	.0002	.0019	.0926	.6493	.0114	1.434	.1278	-.0002	8.241
#2	.0000	.0018	.0935	.6791	.0113	1.419	.1277	-.0002	8.246
#3	.0003	.0019	.0931	.6194	.0115	1.427	.1276	-.0001	8.247

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0090**	**-.0002**	**.0003**	**.0002**	**5.474**	**.0001**	**.0158**	**.0007**	**.0005**
Stddev	.0001	.0007	.0009	.0015	.009	.0004	.0001	.0001	.0014
%RSD	.5775	399.5	257.8	707.7	.1723	813.6	.8410	8.887	263.1
#1	.0090	.0001	.0008	.0009	5.480	-.0004	.0157	.0007	-.0006
#2	.0091	.0004	-.0007	-.0015	5.463	.0003	.0160	.0007	.0001
#3	.0090	-.0010	.0009	.0012	5.479	.0003	.0158	.0008	.0021

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0003**	**.0744**
Stddev	.0001	.0001
%RSD	40.57	.1834
#1	.0004	.0743
#2	.0002	.0744
#3	.0002	.0746

Zoom In Zoom Out

Sample Name: FC21158-2F Acquired: 12/24/2024 12:25:22 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3392.9**	**7732.6**	**56882.**	**10428.**
Stddev	6.0	12.5	85.	23.
%RSD	.17811	.16215	.14979	.22426
#1	3399.5	7736.1	56888.	10422.
#2	3387.6	7742.9	56964.	10408.
#3	3391.8	7718.6	56794.	10454.

Zoom In Zoom Out

Sample Name: FC21158-3F Acquired: 12/24/2024 12:30:27 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0229**	**.0131**	**.0052**	**.0788**	**.0001**	**10.91**	**-.0003**	**.0305**
Stddev	.0001	.0053	.0001	.0002	.0001	.0000	.02	.0000	.0002
%RSD	37.62	23.08	.8455	4.503	.1807	2.421	.1717	12.09	.5839
#1	.0003	.0283	.0130	.0053	.0790	.0001	10.91	-.0003	.0303
#2	.0005	.0228	.0132	.0049	.0787	.0001	10.89	-.0003	.0305
#3	.0003	.0177	.0130	.0054	.0789	.0001	10.93	-.0004	.0306

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0009**	**.0007**	**29.94**	**.9076**	**.0007**	**2.179**	**2.192**	**-.0001**	**62.21**
Stddev	.0002	.0001	.04	.0064	.0003	.013	.017	.0001	.19
%RSD	21.53	11.68	.1299	.7047	47.34	.6018	.7587	189.7	.2973
#1	.0008	.0008	29.90	.9093	.0004	2.179	2.210	.0000	62.36
#2	.0011	.0006	29.97	.9005	.0007	2.192	2.188	.0000	62.01
#3	.0008	.0007	29.95	.9129	.0011	2.165	2.178	-.0002	62.27

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0028**	**-.0039**	**.0007**	**.0014**	**2.672**	**-.0001**	**.0532**	**.0010**	**.0029**
Stddev	.0002	.0002	.0015	.0019	.003	.0006	.0001	.0000	.0009
%RSD	5.665	4.795	219.1	136.4	.1166	540.4	.1591	3.792	30.68
#1	.0026	-.0041	.0022	-.0008	2.669	-.0005	.0533	.0010	.0020
#2	.0028	-.0037	.0006	.0023	2.675	-.0003	.0531	.0010	.0037
#3	.0029	-.0040	-.0008	.0027	2.674	.0005	.0533	.0010	.0031

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0006**	**.0552**
Stddev	.0002	.0001
%RSD	32.34	.1208
#1	.0008	.0552
#2	.0007	.0552
#3	.0004	.0553

Zoom In Zoom Out

Sample Name: FC21158-3F Acquired: 12/24/2024 12:30:27 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3172.2**	**7552.8**	**55192.**	**10472.**
Stddev	5.5	11.5	2.	46.
%RSD	.17314	.15267	.00355	.43778
#1	3170.4	7564.1	55191.	10521.
#2	3178.3	7553.2	55194.	10466.
#3	3167.8	7541.1	55190.	10430.

Zoom In Zoom Out

Sample Name: FC21158-4F Acquired: 12/24/2024 12:35:40 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0004**	**.0513**	**-.0003**	**.0049**	**.1070**	**.0004**	**11.28**	**.0011**	**.0080**
Stddev	.0002	.0051	.0011	.0009	.0003	.0000	.01	.0000	.0000
%RSD	48.92	9.925	380.9	19.20	.2828	8.599	.0805	2.306	.3495
#1	.0005	.0520	.0009	.0055	.1072	.0004	11.27	.0011	.0080
#2	.0006	.0459	-.0007	.0038	.1067	.0003	11.29	.0011	.0081
#3	.0002	.0560	-.0011	.0053	.1071	.0003	11.28	.0011	.0080

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0005**	**.0029**	**.4826**	**2.288**	**.0174**	**1.090**	**.7576**	**.0000**	**8.492**
Stddev	.0002	.0002	.0008	.013	.0009	.006	.0015	.0001	.014
%RSD	42.39	6.661	.1751	.5833	5.032	.5884	.2006	335.1	.1588
#1	.0005	.0028	.4816	2.301	.0177	1.087	.7580	.0002	8.506
#2	.0006	.0032	.4833	2.275	.0164	1.097	.7588	.0000	8.479
#3	.0003	.0029	.4828	2.288	.0181	1.085	.7559	-.0001	8.490

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0188**	**-.0003**	**-.0003**	**-.0002**	**7.763**	**.0003**	**.6073**	**.0011**	**.0010**
Stddev	.0001	.0006	.0007	.0010	.015	.0004	.0008	.0000	.0002
%RSD	.4561	181.9	203.5	502.5	.1964	139.0	.1371	2.156	15.33
#1	.0189	-.0007	.0004	-.0010	7.778	.0006	.6082	.0011	.0009
#2	.0188	.0004	-.0010	-.0007	7.748	-.0001	.6065	.0010	.0009
#3	.0188	-.0006	-.0004	.0010	7.764	.0004	.6072	.0011	.0012

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0004**	**.1862**
Stddev	.0002	.0003
%RSD	58.39	.1419
#1	.0005	.1859
#2	.0006	.1864
#3	.0001	.1862

Zoom In Zoom Out

Sample Name: FC21158-4F Acquired: 12/24/2024 12:35:40 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3370.2**	**7707.3**	**56594.**	**10472.**
Stddev	6.9	11.8	160.	39.
%RSD	.20466	.15329	.28288	.36867
#1	3378.1	7693.9	56645.	10470.
#2	3365.2	7711.6	56414.	10435.
#3	3367.2	7716.3	56722.	10512.

Zoom In Zoom Out

Sample Name: FC21168-1F Acquired: 12/24/2024 12:40:46 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0003**	**.0234**	**-.0008**	**.0308**	**.0811**	**.0000**	**27.94**	**.0001**	**-.0003**
Stddev	.0002	.0037	.0006	.0006	.0002	.0000	.01	.0000	.0001
%RSD	46.03	15.83	81.39	1.923	.2942	60.63	.0399	46.55	33.52
#1	.0002	.0192	-.0003	.0306	.0809	.0000	27.93	.0001	-.0003
#2	.0002	.0246	-.0015	.0304	.0814	.0001	27.95	.0000	-.0004
#3	.0005	.0263	-.0005	.0315	.0810	.0000	27.94	.0001	-.0002

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0042**	**.0025**	**.0032**	**2.379**	**.0029**	**9.614**	**.0004**	**.0034**	**52.06**
Stddev	.0002	.0002	.0005	.007	.0009	.046	.0000	.0002	.10
%RSD	5.328	6.140	16.97	.3090	32.98	.4780	3.168	5.181	.1887
#1	.0042	.0027	.0037	2.372	.0019	9.589	.0005	.0035	51.99
#2	.0044	.0025	.0026	2.379	.0028	9.585	.0004	.0032	52.17
#3	.0040	.0024	.0034	2.387	.0038	9.667	.0005	.0033	52.01

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0004**	**.0003**	**.0009**	**.0002**	**11.57**	**.0001**	**.2092**	**.0016**	**-.0004**
Stddev	.0001	.0001	.0005	.0010	.01	.0001	.0005	.0000	.0025
%RSD	29.12	54.64	57.15	401.2	.0694	161.4	.2622	2.882	690.2
#1	-.0005	.0001	.0014	.0002	11.56	.0002	.2086	.0016	.0018
#2	-.0005	.0003	.0006	-.0007	11.57	-.0001	.2094	.0017	.0002
#3	-.0003	.0004	.0005	.0013	11.57	.0001	.2096	.0016	-.0031

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0022**	**.0091**
Stddev	.0002	.0000
%RSD	8.742	.4625
#1	.0024	.0091
#2	.0020	.0091
#3	.0021	.0090

Zoom In Zoom Out

Sample Name: FC21168-1F Acquired: 12/24/2024 12:40:46 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3202.2**	**7528.7**	**54841.**	**10428.**
Stddev	3.9	3.9	232.	13.
%RSD	.12290	.05131	.42214	.12078
#1	3198.9	7530.3	55108.	10418.
#2	3206.6	7524.2	54720.	10442.
#3	3201.3	7531.4	54695.	10425.

Zoom In Zoom Out

Sample Name: FC21168-2F Acquired: 12/24/2024 12:45:52 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
IS Ref	(Y_3600)	(Y_3710)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_2243)	(Y_2243)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0116**	**-.0003**	**.0303**	**.0796**	**.0000**	**27.60**	**.0001**	**-.0002**
Stddev	.0001	.0057	.0008	.0019	.0002	.000	.09	.0000	.0001
%RSD	64.75	49.13	224.5	6.244	.2596	106.3	.3315	43.47	37.63
#1	.0003	.0100	.0004	.0290	.0798	.0000	27.69	.0000	-.0003
#2	.0001	.0179	-.0003	.0295	.0797	.0000	27.61	.0001	-.0002
#3	.0001	.0069	-.0012	.0325	.0794	.0000	27.51	.0001	-.0001

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
IS Ref	(Y_3600)	(Y_3600)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3710)	(Y_3600)	(Y_2243)	(Y_3710)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0041**	**.0044**	**.0037**	**2.373**	**.0022**	**9.531**	**.0004**	**.0035**	**51.36**
Stddev	.0002	.0000	.0011	.022	.0008	.030	.0000	.0001	.11
%RSD	4.950	.6135	30.03	.9255	37.05	.3144	7.192	1.846	.2175
#1	.0043	.0043	.0044	2.368	.0013	9.523	.0004	.0034	51.46
#2	.0039	.0043	.0043	2.353	.0029	9.564	.0004	.0035	51.39
#3	.0041	.0044	.0024	2.397	.0025	9.506	.0005	.0035	51.24

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
IS Ref	(Y_2243)	(In2306)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_2243)	(Y_3710)	(Y_3600)	(In2306)
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**-.0003**	**.0001**	**.0006**	**-.0010**	**11.42**	**.0010**	**.2070**	**.0016**	**-.0012**
Stddev	.0000	.0007	.0006	.0013	.01	.0005	.0005	.0001	.0014
%RSD	9.759	1337.	101.4	126.2	.0435	45.00	.2598	7.670	116.3
#1	-.0003	-.0004	.0010	-.0011	11.42	.0005	.2071	.0015	-.0009
#2	-.0003	-.0002	-.0001	.0003	11.42	.0012	.2076	.0017	-.0028
#3	-.0002	.0008	.0007	-.0023	11.43	.0013	.2065	.0017	.0000

Elem	V_2924	Zn2062
IS Ref	(Y_3600)	(Y_2243)
Units	ppm	ppm
Avg	**.0020**	**.0123**
Stddev	.0002	.0000
%RSD	9.545	.3229
#1	.0020	.0122
#2	.0018	.0123
#3	.0022	.0123

Zoom In Zoom Out

Sample Name: FC21168-2F Acquired: 12/24/2024 12:45:52 Type: Unk
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3203.1**	**7488.8**	**54529.**	**10324.**
Stddev	3.6	7.0	247.	37.
%RSD	.11177	.09339	.45353	.35619
#1	3201.1	7496.8	54396.	10290.
#2	3200.9	7484.9	54815.	10320.
#3	3207.2	7484.5	54378.	10363.

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 12:50:59 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.2514**	**39.04**	**1.995**	**1.953**	**2.009**	**1.973**	**39.10**	**2.017**	**2.033**
Stddev	.0006	.08	.006	.008	.006	.003	.06	.004	.005
%RSD	.2487	.1964	.2800	.3909	.3205	.1445	.1596	.2080	.2530
#1	.2510	38.95	1.990	1.957	2.004	1.970	39.04	2.012	2.027
#2	.2511	39.09	2.001	1.944	2.006	1.973	39.16	2.019	2.035
#3	.2521	39.07	1.995	1.958	2.016	1.975	39.10	2.020	2.036
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.991**	**1.995**	**38.92**	**39.56**	**1.986**	**38.07**	**2.007**	**2.053**	**40.05**
Stddev	.008	.005	.07	.06	.006	.21	.004	.008	.09
%RSD	.4124	.2339	.1903	.1426	.2960	.5576	.2166	.3722	.2158
#1	1.982	1.990	38.84	39.51	1.980	38.02	2.002	2.045	39.96
#2	1.995	1.995	38.94	39.55	1.985	38.31	2.010	2.055	40.05
#3	1.997	1.999	38.98	39.62	1.992	37.90	2.009	2.060	40.13
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**1.997**	**1.948**	**2.024**	**2.023**	**1.809**	**2.046**	**1.974**	**2.034**	**1.963**
Stddev	.002	.003	.005	.008	.006	.003	.036	.004	.003
%RSD	.0788	.1719	.2609	.3965	.3266	.1423	1.815	.2111	.1329
#1	1.995	1.952	2.018	2.015	1.803	2.043	1.951	2.030	1.966
#2	1.998	1.946	2.028	2.024	1.811	2.047	2.015	2.036	1.961
#3	1.998	1.946	2.026	2.031	1.814	2.049	1.955	2.038	1.962
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
Value									
Range									

Zoom In Zoom Out

Sample Name: CCV Acquired: 12/24/2024 12:50:59 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**2.008**	**1.978**
Stddev	.004	.001
%RSD	.2042	.0482
#1	2.005	1.979
#2	2.012	1.978
#3	2.007	1.977
Check ?	Chk Pass	Chk Pass
Value		
Range		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**2984.8**	**7439.2**	**53555.**	**10379.**
Stddev	2.1	19.7	260.	68.
%RSD	.07156	.26450	.48494	.65096
#1	2983.2	7461.9	53854.	10441.
#2	2983.9	7429.6	53426.	10307.
#3	2987.2	7426.2	53385.	10388.

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 12:56:00 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	Ag3280	Al3961	As1890	B_2497	Ba4554	Be3130	Ca3179	Cd2265	Co2286
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0178**	**-.0012**	F **.0012**	**.0001**	**.0001**	**.0039**	**.0001**	**.0001**
Stddev	.0000	.0033	.0004	.0007	.0001	.0000	.0004	.0000	.0001
%RSD	11.94	18.79	36.56	56.63	64.66	15.75	9.951	20.52	132.4
#1	.0002	.0203	-.0007	.0009	.0002	.0001	.0043	.0000	.0002
#2	.0001	.0140	-.0016	.0020	.0000	.0001	.0038	.0001	.0002
#3	.0002	.0192	-.0014	.0007	.0002	.0001	.0036	.0001	-.0001
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Fail	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit				.0010					
Low Limit				-.0010					

Elem	Cr2677	Cu3247	Fe2599	K_7664	Li6707	Mg2790	Mn2576	Mo2020	Na5895
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0002**	**.0001**	**.0030**	**-.0222**	**-.0004**	**.0032**	**.0001**	**.0007**	**.0142**
Stddev	.0001	.0001	.0004	.0171	.0002	.0037	.0000	.0000	.0059
%RSD	45.82	87.93	13.89	76.96	39.19	115.3	14.31	4.709	41.73
#1	.0003	.0000	.0034	-.0169	-.0005	.0009	.0001	.0007	.0207
#2	.0001	.0001	.0030	-.0083	-.0005	.0012	.0001	.0007	.0090
#3	.0003	.0002	.0026	-.0412	-.0002	.0075	.0001	.0006	.0130
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Elem	Ni2316	Pb2203	Sb2068	Se1960	Si2124	Sn1899	Sr4077	Ti3349	Tl1908
Units	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
Avg	**.0000**	**.0001**	**.0002**	**-.0010**	**.0001**	**.0003**	**.0001**	**.0000**	**.0001**
Stddev	.000	.0006	.0007	.0012	.0000	.0003	.0000	.0001	.0008
%RSD	376.9	506.9	446.6	112.8	37.22	87.91	20.01	1491.	1555.
#1	.0000	-.0004	.0008	-.0021	.0001	.0003	.0001	.0000	-.0008
#2	-.0001	.0007	-.0006	-.0013	.0001	.0006	.0001	-.0001	.0007
#3	.0000	.0000	.0003	.0002	.0002	.0001	.0001	.0001	.0002
Check ?	Chk Pass	Chk Pass	Chk Pass	Chk Pass	None	Chk Pass	Chk Pass	Chk Pass	Chk Pass
High Limit									
Low Limit									

Zoom In Zoom Out

Sample Name: CCB Acquired: 12/24/2024 12:56:00 Type: QC
Method: 60102007_COMBO_102422(v378) Mode: CONC Corr. Factor: 1.000000
User: Dave SSTRACE01: : :
Comment:

Elem	V_2924	Zn2062
Units	ppm	ppm
Avg	**.0003**	**.0014**
Stddev	.0001	.0000
%RSD	21.76	2.531
#1	.0004	.0015
#2	.0004	.0014
#3	.0003	.0014
Check ?	Chk Pass	Chk Pass
High Limit		
Low Limit		

Int. Std.	In2306	Y_2243	Y_3600	Y_3710
Units	Cts/S	Cts/S	Cts/S	Cts/S
Avg	**3548.1**	**7714.2**	**55583.**	**10264.**
Stddev	3.8	8.9	330.	68.
%RSD	.10817	.11594	.59459	.66450
#1	3552.5	7723.9	55941.	10292.
#2	3545.6	7712.5	55520.	10186.
#3	3546.1	7706.3	55289.	10313.

NOTE: The remaining raw data for this batch is not relevant to this job. As such it has been omitted.

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Ag 328.068 {103}	☒	2	V	-0.005817	0.000000	No
			Fe	-0.000019	0.000000	No
Al 396.152 { 85}	☒	1	Mo	0.040336	0.000000	No
As 189.042 {478}	☒	4	Fe	-0.000086	0.000000	No
			Cr	-0.000653	0.000000	No
			Mo	0.000444	0.000000	No
			Al	0.000001	0.000000	No
B 249.773 {135}	☒	1	Fe	0.001328	0.000000	No
Ba 455.403 { 74}	☒	4	Fe	-0.000052	0.000000	No
			Al	0.000025	0.000000	No
			Ca	0.000016	0.000000	No
			Mg	0.000016	0.000000	No
Be 313.042 {108}	☒	2	V	0.000089	0.000000	No
			Ti	-0.000289	0.000000	No
Ca 317.933 {106}	☒	None				
Cd 226.502 {449}	☒	4	Fe	0.000112	0.000000	No
			Ca	-0.000000	0.000000	No
			Al	-0.000002	0.000000	No
			Ti	0.000103	0.000000	No
Co 228.616 {447}	☒	3	Mo	-0.001220	0.000000	No
			Ti	0.002210	0.000000	No
			Fe	0.000006	0.000000	No
Cr 267.716 {126}	☒	4	Al	0.000003	0.000000	No
			Fe	-0.000015	0.000000	No
			Ca	0.000002	0.000000	No
			Cd	-0.000120	0.000000	No
Cu 324.754 {104}	☒	10	Mo	0.000189	0.000000	No
			Sn	-0.000012	0.000000	No
			V	-0.000158	0.000000	No
			Al	0.000003	0.000000	No
			Mg	0.000003	0.000000	No
			Co	-0.000547	0.000000	No
			Cd	0.000190	0.000000	No
			Fe	0.000006	0.000000	No
			Ca	0.000001	0.000000	No
			Ti	-0.000268	0.000000	No
Fe 259.940 {130}	☒	None				
In 230.606 {446}*	☒	None				
K 766.490 { 44}	☒	None				
Li 670.784 { 50}	☒	4	Ca	0.000004	0.000000	No
			Fe	0.000024	0.000000	No
			Al	-0.000009	0.000000	No
			Mg	-0.000006	0.000000	No
Mg 279.079 {121}	☒	None				
Mn 257.610 {131}	☒	2	Fe	0.000011	0.000000	No
			Mg	0.000000	0.000000	No
Mo 202.030 {467}	☒	3	Fe	-0.000004	0.000000	No
			Al	-0.000002	0.000000	No
			Ca	-0.000003	0.000000	No
Na 589.592 { 57}	☒	None				
Ni 231.604 {445}	☒	7	Fe	0.000006	0.000000	No
			Co	0.000112	0.000000	No
			Mo	0.000980	0.000000	No
			Sb	-0.000120	0.000000	No
			Al	0.000003	0.000000	No
			Be	-0.000304	0.000000	No
			Tl	0.000172	0.000000	No

Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
Pb 220.353 {453}	☒	9	Al	0.000153	0.000000	No
			Fe	0.000140	0.000000	No
			Mo	-0.002189	0.000000	No
			Cu	0.000467	0.000000	No
			Ti	0.000036	0.000000	No
			Si	0.000182	0.000000	No
			Ca	0.000012	0.000000	No
			Cr	-0.000260	0.000000	No
			Mg	0.000002	0.000000	No
Sb 206.833 {463}	☒	11	Fe	0.000024	0.000000	No
			Cr	0.011486	0.000000	No
			Mo	-0.002538	0.000000	No
			V	-0.002735	0.000000	No
			Sn	-0.008695	0.000000	No
			Ti	0.000278	0.000000	No
			Ca	0.000001	0.000000	No
			Ni	-0.000818	0.000000	No
			Al	0.000005	0.000000	No
			Mn	-0.000133	0.000000	No
			Mg	-0.000002	0.000000	No
Se 196.090 {472}	☒	12	Fe	-0.000045	0.000000	No
			Ca	0.000006	0.000000	No
			Mn	0.000331	0.000000	No
			Mo	0.000111	0.000000	No
			Al	0.000001	0.000000	No
			V	0.000000	0.000000	No
			Zn	0.000000	0.000000	No
			Sr	-0.000111	0.000000	No
			As	0.000125	0.000000	No
			Cd	-0.000250	0.000000	No
			Mg	0.000002	0.000000	No
			Cr	-0.000326	0.000000	No
Si 212.412 {459}	☒	1	Mo	0.000000	0.000000	No
Sn 189.989 {477}	☒	1	Fe	0.000016	0.000000	No
Sr 407.771 { 83}	☒	2	Ca	-0.000007	0.000000	No
			Al	0.000012	0.000000	No
Ti 334.941 {101}	☒	1	Ca	-0.000010	0.000000	No
Tl 190.856 {477}	☒	10	Co	0.004099	0.000000	No
			Fe	-0.000085	0.000000	No
			Al	0.000000	0.000000	No
			Ba	-0.000051	0.000000	No
			Ti	-0.000648	0.000000	No
			Sb	0.000167	0.000000	No
			Ca	0.000001	0.000000	No
			Cr	0.000340	0.000000	No
			Mg	-0.000002	0.000000	No
			V	0.000015	0.000000	No
V 292.402 {115}	☒	5	Fe	-0.000003	0.000000	No
			Cr	-0.003634	0.000000	No
			Mo	-0.009536	0.000000	No
			Ti	0.000303	0.000000	No
			Mn	-0.000333	0.000000	No
Y 224.306 {450}*	☒	None				
Y 360.073 { 94}*	☒	None				
Y 371.030 { 91}*	☒	None				
Zn 206.200 {463}	☒	5	Cr	-0.001305	0.000000	No
			Al	0.000014	0.000000	No

	Element, Wavelength and Order	Use?	# IECs	IEC	k1	k2	Calc-in-fit?
				Ca	0.000003	0.000000	No
				Fe	-0.000010	0.000000	No
				As	0.001105	0.000000	No

	Element, Wavelength and Order	Date of Fit	Date of Cal.	Type of Fit	Weighting	A0	A1	A2	n (Exponent)
	Ag 328.068 {103}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000280	0.519719	0.000000	1.000000
	Al 396.152 { 85}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000345	0.146122	0.000000	1.000000
	As 189.042 {478}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000136	0.093936	0.000000	1.000000
	B 249.773 {135}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000435	0.204458	0.000000	1.000000
	Ba 455.403 { 74}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000450	8.952530	0.000000	1.000000
	Be 313.042 {108}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000064	10.969373	0.000000	1.000000
	Ca 317.933 {106}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.001907	0.285044	0.000000	1.000000
	Cd 226.502 {449}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000019	3.928409	0.000000	1.000000
	Co 228.616 {447}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000066	2.092875	0.000000	1.000000
	Cr 267.716 {126}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000124	0.495517	0.000000	1.000000
	Cu 324.754 {104}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.005741	0.872095	0.000000	1.000000
	Fe 259.940 {130}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000121	0.152049	0.000000	1.000000
	In 230.606 {446}*	12/24/2024 10:40:00	5/5/2010 12:30:54	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	K 766.490 { 44}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.004842	0.072544	0.000000	1.000000
	Li 670.784 { 50}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.004843	1.916963	0.000000	1.000000
	Mg 279.079 {121}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000331	0.031626	0.000000	1.000000
	Mn 257.610 {131}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000042	2.302431	0.000000	1.000000
	Mo 202.030 {467}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000084	0.684065	0.000000	1.000000
	Na 589.592 { 57}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.019343	0.226658	0.000000	1.000000
	Ni 231.604 {445}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000325	1.304030	0.000000	1.000000
	Pb 220.353 {453}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.001057	0.900305	0.000000	1.000000
	Sb 206.833 {463}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000001	0.171549	0.000000	1.000000
	Se 196.090 {472}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000124	0.073110	0.000000	1.000000
	Si 212.412 {459}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.003020	0.308051	0.000000	1.000000
	Sn 189.989 {477}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000154	0.234161	0.000000	1.000000
	Sr 407.771 { 83}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.002858	15.740426	0.000000	1.000000
	Ti 334.941 {101}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000832	1.462996	0.000000	1.000000
	Tl 190.856 {477}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	0.000461	0.190632	0.000000	1.000000
	V 292.402 {115}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000417	0.755742	0.000000	1.000000
	Y 224.306 {450}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 360.073 { 94}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Y 371.030 { 91}*	<not fit>	<Never Calibrated>	Linear	1/Conc	0.000000	0.000000	0.000000	1.000000
	Zn 206.200 {463}	12/24/2024 10:40:00	12/24/2024 10:00:38	Linear	1/Conc	-0.000164	1.904927	0.000000	1.000000

	Element, Wavelength and Order	Correlation	Std Error of Est	Predicted MDL	Predicted MQL	Status	Reslope		QC Norm	
							Slope	Y-int	Slope factor	Offset
	Ag 328.068 {103}	0.999965	0.000015	0.000317	0.001057	OK.	1.000000	0.000000	1	0
	Al 396.152 { 85}	0.999918	0.000391	0.007134	0.023781	OK.	1.000000	0.000000	1	0
	As 189.042 {478}	0.999871	0.000016	0.001052	0.003507	OK.	1.000000	0.000000	1	0
	B 249.773 {135}	0.999239	0.000191	0.001639	0.005462	OK.	1.000000	0.000000	1	0
	Ba 455.403 { 74}	0.999906	0.005787	0.000163	0.000542	OK.	1.000000	0.000000	1	0
	Be 313.042 {108}	0.999978	0.000530	0.000043	0.000143	OK.	1.000000	0.000000	1	0
	Ca 317.933 {106}	0.999974	0.000960	0.001882	0.006273	OK.	1.000000	0.000000	1	0
	Cd 226.502 {449}	0.999989	0.000135	0.000047	0.000156	OK.	1.000000	0.000000	1	0
	Co 228.616 {447}	0.999974	0.000350	0.000100	0.000332	OK.	1.000000	0.000000	1	0
	Cr 267.716 {126}	0.999986	0.000027	0.000246	0.000821	OK.	1.000000	0.000000	1	0
	Cu 324.754 {104}	0.999933	0.000166	0.000230	0.000765	OK.	1.000000	0.000000	1	0
	Fe 259.940 {130}	0.999925	0.000475	0.001736	0.005785	OK.	1.000000	0.000000	1	0
	In 230.606 {446}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	K 766.490 { 44}	0.999883	0.001192	0.024745	0.082483	OK.	1.000000	0.000000	1	0
	Li 670.784 { 50}	0.999908	0.000257	0.001042	0.003473	OK.	1.000000	0.000000	1	0
	Mg 279.079 {121}	0.999977	0.000227	0.012048	0.040161	OK.	1.000000	0.000000	1	0
	Mn 257.610 {131}	0.999997	0.000073	0.000041	0.000137	OK.	1.000000	0.000000	1	0
	Mo 202.030 {467}	0.999924	0.000197	0.000160	0.000533	OK.	1.000000	0.000000	1	0
	Na 589.592 { 57}	0.999876	0.003835	0.008350	0.027834	OK.	1.000000	0.000000	1	0
	Ni 231.604 {445}	0.999973	0.000200	0.000160	0.000533	OK.	1.000000	0.000000	1	0
	Pb 220.353 {453}	0.999429	0.000225	0.000524	0.001747	OK.	1.000000	0.000000	1	0
	Sb 206.833 {463}	0.999937	0.000014	0.001027	0.003423	OK.	1.000000	0.000000	1	0
	Se 196.090 {472}	0.999954	0.000007	0.002040	0.006801	OK.	1.000000	0.000000	1	0
	Si 212.412 {459}	0.991983	0.002113	0.000412	0.001372	OK.	1.000000	0.000000	1	0
	Sn 189.989 {477}	0.999922	0.000068	0.000426	0.001420	OK.	1.000000	0.000000	1	0
	Sr 407.771 { 83}	0.999962	0.001422	0.000057	0.000189	OK.	1.000000	0.000000	1	0
	Ti 334.941 {101}	0.999983	0.000088	0.000111	0.000369	OK.	1.000000	0.000000	1	0
	Tl 190.856 {477}	0.999777	0.000042	0.001402	0.004673	OK.	1.000000	0.000000	1	0
	V 292.402 {115}	0.999949	0.000176	0.000208	0.000694	OK.	1.000000	0.000000	1	0
	Y 224.306 {450}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 360.073 { 94}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Y 371.030 { 91}*	0.000000	0.000000	-1.000000	-1.000000	Warnin	1.000000	0.000000	1	0
	Zn 206.200 {463}	0.999991	0.000119	0.000070	0.000233	OK.	1.000000	0.000000	1	0

SGS Orlando

Date:	12/23/24
[24hr] **Time**	12:40

Analysts Name:	Luis Mir
MP Batch ID:	MP45051
Method	SW846-3010A

Reagent / Lot Number		Spk.Soln(A)	Vol. Used (ml)	Pipette Number
Conc. HNO3 (B)	24014162	ACC1397/1215	0.5/0.025	KU15244/MU45274
Conc. HCl (B)	24013202	ACC1396	0.25	KU15244
NA	NA	MET7667	0.25	KU15244
NA	NA	NA	NA	NA

HotBlock I.D.	12	**Therm ID**	213	**Temp. C**	95	**Corr. Factor**	-1	**Corrected Observed Temp. C**	94
pH Paper Lot Number	230320b			**Filter Lot Number**		316108238		**Digestion Tube Lot Number**	LV24070610

	Bot#	Sample #	Initial Vol.(ml)	Final Vol.(ml)	pH<2	Comments
	NA	Method Blank(MB)	50	50	NA	
	NA	Spike Blank(SB)	50	50	NA	
	1	Matrix Spike(MS)	50	50	Y	
	1	Matrix Spike Dup(MSD)	50	50	Y	
	1	Duplicate(DUP)	50	50	Y	
1(QC) C	1	FC21146-1	50	50	Y	
2	4	FC21155-1	50	50	Y	
3	4	FC21155-2	50	50	Y	
4	16	FC21158-1F	50	50	Y	
5	16	FC21158-2F	50	50	Y	
6	16	FC21158-3F	50	50	Y	
7	15	FC21158-4F	50	50	Y	
8	2	FC21168-1F	50	50	Y	
9	2	FC21168-2F	50	50	Y	
10	12	FC21169-6	50	50	Y	
11	12	FC21169-8	50	50	Y	
12	12	FC21169-9	50	50	Y	
13	11	FC21169-6F	50	50	Y	
14	11	FC21169-8F	50	50	Y	
15	11	FC21169-9F	50	50	Y	
16	10	FC21182-2	50	50	Y	
17	8	FC21184-14F	50	50	Y	
18	8	FC21184-15F	50	50	Y	
19	8	FC21184-16F	50	50	Y	
20	8	FC21184-17F	50	50	Y	
21 [D]						
22 [D]						
23 [D]						
24 [D]						

Protected Worksheet

A Used for SB, MS, MSD
B For reagent volumes used refer to SOP MET 103, current verion
C Parent sample used to prepare MS, MSD, DUP
D Additional matrix QC

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: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chloride	GP40884/GN99347	2.0	0.0	mg/l	50	52.5	105.0	90-110%
Nitrogen, Nitrate	GP40884/GN99347	0.10	0.0	mg/l	2.5	2.54	101.6	90-110%
Nitrogen, Nitrite	GP40884/GN99347	0.10	0.0	mg/l	2.5	2.68	107.2	90-110%
Sulfate	GP40884/GN99347	2.0	0.0	mg/l	50	51.8	103.6	90-110%

Associated Samples:
Batch GP40884: FC21168-1, FC21168-2
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chloride	GP40884/GN99347	FC21158-1	mg/l	15.8	50	67.7	103.8	90-110%
Nitrogen, Nitrate	GP40884/GN99347	FC21158-1	mg/l	0.69	2.5	3.3	104.4	90-110%
Nitrogen, Nitrite	GP40884/GN99347	FC21158-1	mg/l	0.0	2.5	2.7	108.0	90-110%
Sulfate	GP40884/GN99347	FC21158-1	mg/l	0.0	50	51.2	102.4	90-110%

Associated Samples:
Batch GP40884: FC21168-1, FC21168-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

MATRIX SPIKE DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MSD Result	RPD	QC Limit
Chloride	GP40884/GN99347	FC21158-1	mg/l	15.8	50	67.7	0.0	15%
Nitrogen, Nitrate	GP40884/GN99347	FC21158-1	mg/l	0.69	2.5	3.3	0.0	15%
Nitrogen, Nitrite	GP40884/GN99347	FC21158-1	mg/l	0.0	2.5	2.7	0.0	15%
Sulfate	GP40884/GN99347	FC21158-1	mg/l	0.0	50	51.4	0.4	15%

Associated Samples:
Batch GP40884: FC21168-1, FC21168-2
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: 62024121201.CSV Date Analyzed: 12/07/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN99347
Parameters: Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
15:39	GN99347-STD1	1		STDA
15:58	GN99347-STD2	1		STDB
16:17	GN99347-STD3	1		STDC
16:35	GN99347-STD4	1		STDD
16:54	GN99347-STD5	1		STDE
17:13	GN99347-STD6	1		STDF
17:32	GN99347-STD7	1		STDG
17:51	GN99347-STD8	1		STDH
18:10	GN99347-STD9	1		STDI
18:28	GN99347-STD10	1		STDJ
18:47	GN99347-STD11	1		STDK
19:06	GN99347-ICV1	1		
19:25	GN99347-ICB1	1		
19:44	GN99347-CRI1	1		
20:02	GN99347-CCV1	1		
20:21	GN99347-CCB1	1		
10:37	GN99347-CCV2	1		
11:01	GP40884-MB1	1		
11:20	GP40884-B1	1		
11:38	FC21158-1	1		(sample used for QC only; not part of login FC21168)
11:57	GP40884-S1	1		
12:16	GP40884-S2	1		
12:35	ZZZZZZ	1		
12:54	ZZZZZZ	1		
13:13	ZZZZZZ	1		
13:56	ZZZZZZ	1		
14:15	ZZZZZZ	1		
14:34	GN99347-CCV3	1		
14:53	GN99347-CCB2	1		
15:11	FC21168-1	1		
15:30	FC21168-2	1		
15:49	ZZZZZZ	25		
16:35	ZZZZZZ	50		

SGS Instrument Runlog
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: 62024121201.CSV Date Analyzed: 12/07/24 Methods: EPA 300/SW846 9056A
Analyst: GN Run ID: GN99347
Parameters: Nitrogen, Nitrate,Nitrogen, Nitrite,Sulfate

Time	Sample Description	Dilution Factor	PS Recov	Comments
17:00	ZZZZZZ	25		
17:18	ZZZZZZ	25		
17:37	ZZZZZZ	1		
17:56	ZZZZZZ	1		
18:15	ZZZZZZ	1		
18:33	ZZZZZZ	1		
18:52	GN99347-CCV4	1		
19:11	GN99347-CCB3	1		
19:30	ZZZZZZ	1		
19:49	FC21172-2A	10		(sample used for QC only; not part of login FC21168)
20:07	GP40884-S3	10		
20:26	GP40884-S4	10		
20:45	ZZZZZZ	10		
21:03	ZZZZZZ	1		
21:22	GP40885-MB1	1		
21:41	GP40885-B1	1		
22:00	ZZZZZZ	1		
22:18	FC21172-4A	10		(sample used for QC only; not part of login FC21168)
22:37	GN99347-CCV5	1		
22:56	GN99347-CCB4	1		
23:15	GP40885-S1	10		
23:33	GP40885-S2	10		
23:52	GN99347-CCV6	1		
00:11	GN99347-CCB5	1		

Refer to raw data for calibration curve and standards.

Instrument QC Summary
Inorganics Analyses

Login Number: FC21168
Account: AHTNACAS - Ahtna Global, LLC
Project: Fort Ord Groundwater Monitoring

File ID: 62024121201.CSV Date Analyzed: 12/07/24 Methods: EPA 300/SW846 9056A
Run ID: GN99347 Units: mg/l

Sample Number	Parameter	Result	RL	IDL/MDL	True Value	% Recov.	QC Limits
GN99347-ICV1	Nitrogen, Nitrite	2.69	0.10	0.040	2.5	107.6	90-110
GN99347-ICV1	Nitrogen, Nitrate	2.55	0.10	0.040	2.5	102.0	90-110
GN99347-ICV1	Sulfate	51.7	2.0	0.60	50	103.4	90-110
GN99347-ICB1	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-ICB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-ICB1	Sulfate	0.60 U	2.0	0.60			
GN99347-CRI1	Nitrogen, Nitrite	0.112	0.10	0.040	.1	112.0	50-150
GN99347-CRI1	Nitrogen, Nitrate	0.121	0.10	0.040	.1	121.0	50-150
GN99347-CRI1	Sulfate	0.873	2.0	0.60	1	87.3	50-150
GN99347-CCV1	Nitrogen, Nitrite	2.59	0.10	0.040	2.5	103.6	90-110
GN99347-CCV1	Nitrogen, Nitrate	2.45	0.10	0.040	2.5	98.0	90-110
GN99347-CCV1	Sulfate	51.1	2.0	0.60	50	102.2	90-110
GN99347-CCB1	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-CCB1	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-CCB1	Sulfate	0.60 U	2.0	0.60			
GN99347-CCV2	Nitrogen, Nitrite	2.61	0.10	0.040	2.5	104.4	90-110
GN99347-CCV2	Nitrogen, Nitrate	2.50	0.10	0.040	2.5	100.0	90-110
GN99347-CCV2	Sulfate	49.9	2.0	0.60	50	99.8	90-110
GN99347-CCV3	Nitrogen, Nitrite	2.61	0.10	0.040	2.5	104.4	90-110
GN99347-CCV3	Nitrogen, Nitrate	2.50	0.10	0.040	2.5	100.0	90-110
GN99347-CCV3	Sulfate	49.7	2.0	0.60	50	99.4	90-110
GN99347-CCB2	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-CCB2	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-CCB2	Sulfate	0.60 U	2.0	0.60			
GN99347-CCV4	Nitrogen, Nitrite	2.61	0.10	0.040	2.5	104.4	90-110
GN99347-CCV4	Nitrogen, Nitrate	2.51	0.10	0.040	2.5	100.4	90-110
GN99347-CCV4	Sulfate	50.0	2.0	0.60	50	100.0	90-110
GN99347-CCB3	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-CCB3	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-CCB3	Sulfate	0.60 U	2.0	0.60			
GN99347-CCV5	Nitrogen, Nitrite	2.62	0.10	0.040	2.5	104.8	90-110
GN99347-CCV5	Nitrogen, Nitrate	2.51	0.10	0.040	2.5	100.4	90-110
GN99347-CCV5	Sulfate	49.6	2.0	0.60	50	99.2	90-110
GN99347-CCB4	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-CCB4	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-CCB4	Sulfate	0.60 U	2.0	0.60			
GN99347-CCV6	Nitrogen, Nitrite	2.62	0.10	0.040	2.5	104.8	90-110
GN99347-CCV6	Nitrogen, Nitrate	2.52	0.10	0.040	2.5	100.8	90-110
GN99347-CCV6	Sulfate	50.1	2.0	0.60	50	100.2	90-110
GN99347-CCB5	Nitrogen, Nitrite	0.040 U	0.10	0.040			
GN99347-CCB5	Nitrogen, Nitrate	0.040 U	0.10	0.040			
GN99347-CCB5	Sulfate	0.60 U	2.0	0.60			

(!) Outside of QC limits

General Chemistry

Raw Data

MagIC Net

2024-12-13 10:49:54

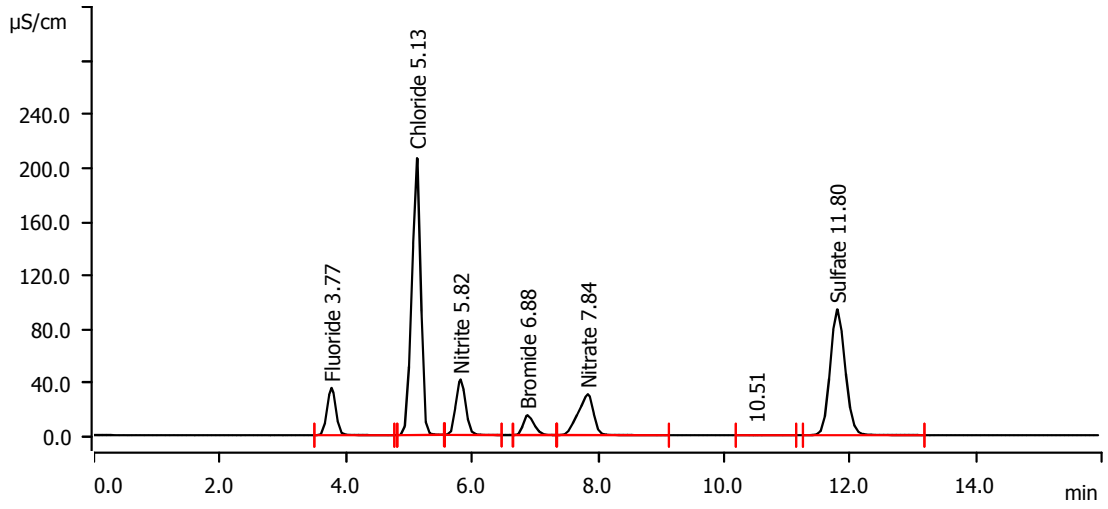
Sample data

Ident	STDK
Sample type	Standard 10
Determination start	2024-12-07 18:47:37 UTC-5
Method	MiVDT 4.0 - Anions - With UF
Operator	GN

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	8.06	MPa
Maximum pressure monitored	yes	
Temperature	30.0	°C

Anions



Peak number	Retention time	Area	Height	Concentration	Component name
	min	(µS/cm) x min	µS/cm	mg/L	
1	3.772	5.6439	35.188	9.050	Fluoride
2	5.130	33.8501	205.985	100.268	Chloride
3	5.820	7.4015	41.177	9.883	Nitrite
4	6.883	2.9177	14.763	20.682	Bromide
5	7.840	8.5380	30.370	10.175	Nitrate
6	10.505	0.0031	0.009	invalid	
7	11.797	25.7389	93.556	98.784	Sulfate

Metrohm

Calibration

Anions

Component	Response	Curve type	Weighting
Fluoride	Area	Linear	1/Area
Chloride	Area	Linear	1/Area
Nitrite	Area	Linear	1/Area
Bromide	Area	Linear	1/Area
Nitrate	Area	Linear	1/Area
Phosphate	Area	Quadratic	1
Sulfate	Area	Linear	1/Area

Properties calibration

Calibration method . . . . . External standard
Calibration mode . . . . . Replace
Function type . . . . . Response = f(concentration)
Add point of origin to calibration curve . . . . . off
Blank correction for inline calibration . . . . . off

Monitoring

Validity of calibration
- Unlimited . . . . . on
- Same day . . . . . off
- Days . . . . . off

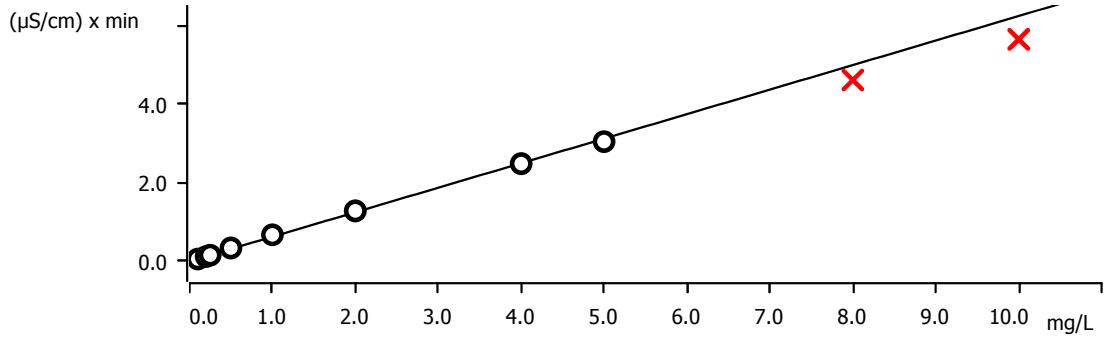
Message
- Message by e-mail . . . . . off
- Acoustic signal . . . . . off

Action
- Record message . . . . . on
- Display message . . . . . off
- Cancel determination . . . . . off

MagIC Net

2024-12-13 10:49:54

Fluoride (Anions)



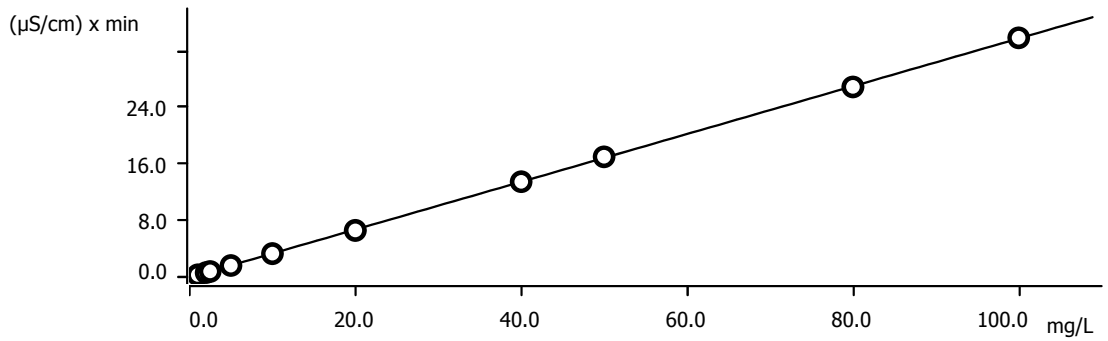
Function: . . . . . *A = - 1.04961E-3 + 0.0311874× Q*

Relative standard deviation . . . . . *4.051709 %*

Correlation coefficient *0.999456*

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	0.100	20.0	1.0	1.0	0.0557	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	0.200	20.0	1.0	1.0	0.1194	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	0.250	20.0	1.0	1.0	0.1535	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	0.500	20.0	1.0	1.0	0.3359	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	1.000	20.0	1.0	1.0	0.6721	STDF	2024-12-07 17:13:34 UTC-5
Standard 6	1	2.000	20.0	1.0	1.0	1.2805	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	4.000	20.0	1.0	1.0	2.4816	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	5.000	20.0	1.0	1.0	3.0418	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	8.000	20.0	1.0	1.0	4.6075	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	10.000	20.0	1.0	1.0	5.6439	STDK	2024-12-07 18:47:37 UTC-5

Chloride (Anions)



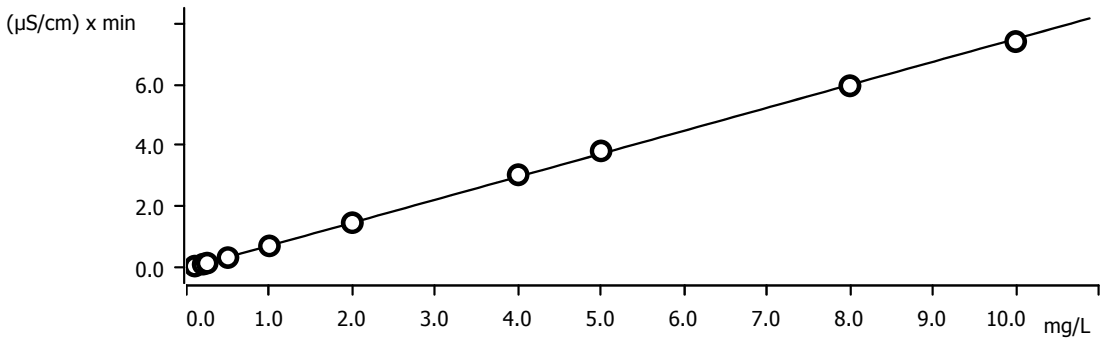
Function: . . . . . *A = - 0.0864562 + 0.0169229× Q*

Relative standard deviation . . . . . *0.824192 %*

Correlation coefficient *0.999977*

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	1.000	20.0	1.0	1.0	0.2686	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	2.000	20.0	1.0	1.0	0.5781	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	2.500	20.0	1.0	1.0	0.7491	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	5.000	20.0	1.0	1.0	1.5852	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	10.000	20.0	1.0	1.0	3.2813	STDF	2024-12-07 17:13:34 UTC-5
Standard 6	1	20.000	20.0	1.0	1.0	6.5681	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	40.000	20.0	1.0	1.0	13.4660	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	50.000	20.0	1.0	1.0	16.9973	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	80.000	20.0	1.0	1.0	26.8886	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	100.000	20.0	1.0	1.0	33.8501	STDK	2024-12-07 18:47:37 UTC-5

Nitrite (Anions)



Function: . . . . . *A = - 0.0246647 + 0.0375695× Q*

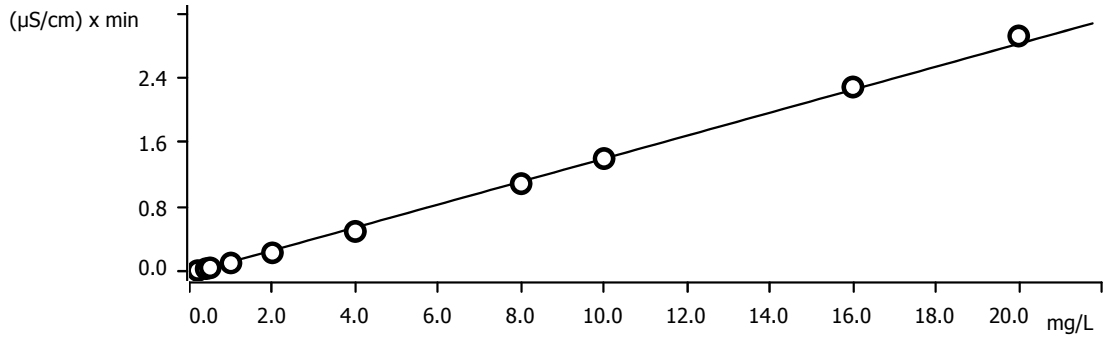
Relative standard deviation . . . . . *2.252824 %*

Correlation coefficient *0.999830*

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	0.100	20.0	1.0	1.0	0.0570	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	0.200	20.0	1.0	1.0	0.1202	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	0.250	20.0	1.0	1.0	0.1564	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	0.500	20.0	1.0	1.0	0.3372	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	1.000	20.0	1.0	1.0	0.7187	STDF	2024-12-07 17:13:34 UTC-5

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	2.000	20.0	1.0	1.0	1.4762	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	4.000	20.0	1.0	1.0	3.0453	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	5.000	20.0	1.0	1.0	3.8239	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	8.000	20.0	1.0	1.0	5.9544	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	10.000	20.0	1.0	1.0	7.4015	STDK	2024-12-07 18:47:37 UTC-5

Bromide (Anions)



Function: . . . . . *A = - 0.0152232 + 7.09052E-3× Q*

Relative standard deviation . . . . . *4.944565 %*

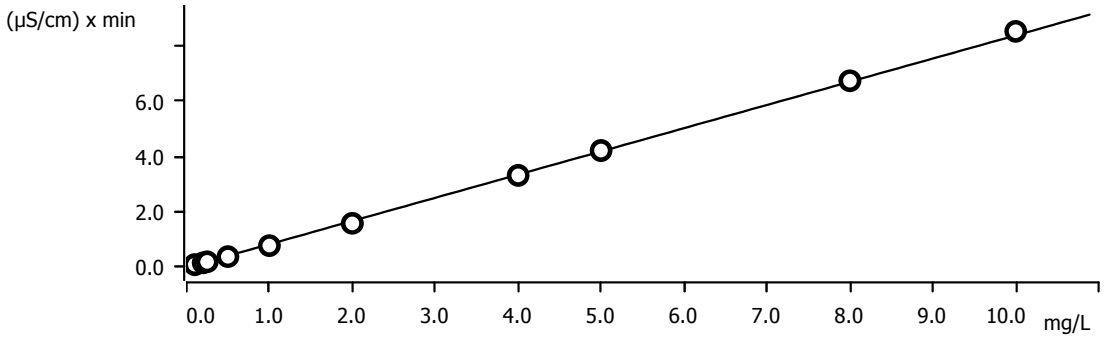
Correlation coefficient *0.999243*

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	0.200	20.0	1.0	1.0	0.0203	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	0.400	20.0	1.0	1.0	0.0418	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	0.500	20.0	1.0	1.0	0.0537	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	1.000	20.0	1.0	1.0	0.1126	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	2.000	20.0	1.0	1.0	0.2390	STDF	2024-12-07 17:13:34 UTC-5
Standard 6	1	4.000	20.0	1.0	1.0	0.5028	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	8.000	20.0	1.0	1.0	1.0932	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	10.000	20.0	1.0	1.0	1.4030	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	16.000	20.0	1.0	1.0	2.2873	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	20.000	20.0	1.0	1.0	2.9177	STDK	2024-12-07 18:47:37 UTC-5

MagIC Net

2024-12-13 10:49:54

Nitrate (Anions)



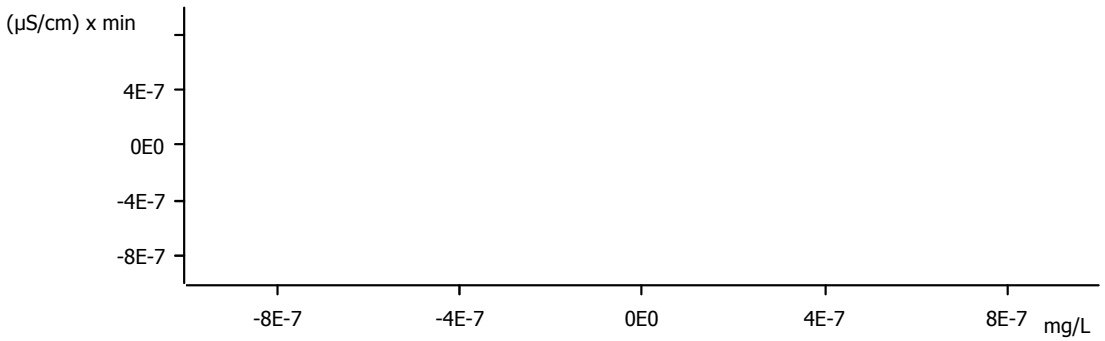
Function . . . . . *A = - 0.0391979 + 0.0421487× Q*

Relative standard deviation . . . . . *2.610622 %*

Correlation coefficient *0.999783*

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	0.100	20.0	1.0	1.0	0.0614	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	0.200	20.0	1.0	1.0	0.1270	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	0.250	20.0	1.0	1.0	0.1633	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	0.500	20.0	1.0	1.0	0.3502	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	1.000	20.0	1.0	1.0	0.7510	STDF	2024-12-07 17:13:34 UTC-5
Standard 6	1	2.000	20.0	1.0	1.0	1.5606	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	4.000	20.0	1.0	1.0	3.3044	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	5.000	20.0	1.0	1.0	4.2048	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	8.000	20.0	1.0	1.0	6.7411	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	10.000	20.0	1.0	1.0	8.5380	STDK	2024-12-07 18:47:37 UTC-5

Phosphate (Anions)



MagIC Net

2024-12-13 10:49:54

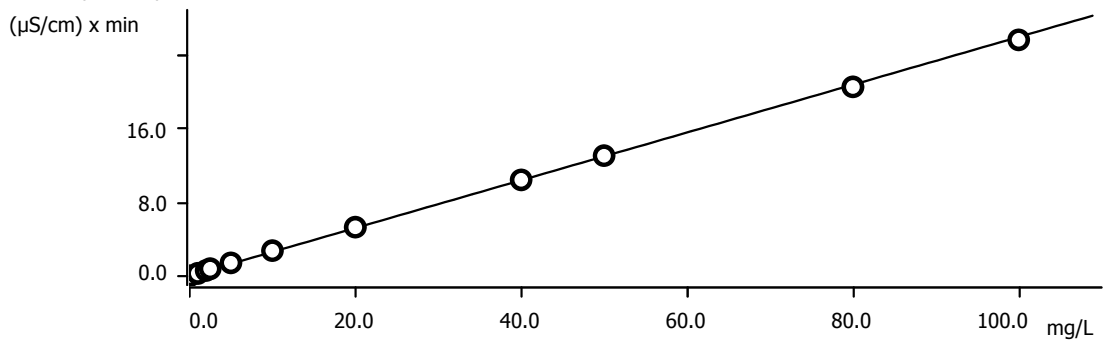
Function: . . . . . .

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	2024-12-07 15:39:24 UTC-5
Standard 1	1	0.000	20.0	1.0	1.0	n. d.	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	0.000	20.0	1.0	1.0	n. d.	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	0.000	20.0	1.0	1.0	n. d.	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	0.000	20.0	1.0	1.0	n. d.	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	0.000	20.0	1.0	1.0	n. d.	STDF	2024-12-07 17:13:34 UTC-5
Standard 6	1	0.000	20.0	1.0	1.0	n. d.	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	0.000	20.0	1.0	1.0	n. d.	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	0.000	20.0	1.0	1.0	n. d.	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	0.000	20.0	1.0	1.0	n. d.	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	0.000	20.0	1.0	1.0	n. d.	STDK	2024-12-07 18:47:37 UTC-5

Sulfate (Anions)



Function: . . . . . *A = 0.0273737 + 0.0130140× Q*

Relative standard deviation . . . . . *2.103071 %*

Correlation coefficient *0.999866*

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 100	1	0.000	20.0	1.0	1.0	0.0202	STDA	2024-12-07 15:39:24 UTC-5
Standard 1	1	1.000	20.0	1.0	1.0	0.2869	STDB	2024-12-07 15:58:12 UTC-5
Standard 2	1	2.000	20.0	1.0	1.0	0.6044	STDC	2024-12-07 16:17:04 UTC-5
Standard 3	1	2.500	20.0	1.0	1.0	0.7877	STDD	2024-12-07 16:35:55 UTC-5
Standard 4	1	5.000	20.0	1.0	1.0	1.4370	STDE	2024-12-07 16:54:45 UTC-5
Standard 5	1	10.000	20.0	1.0	1.0	2.7657	STDF	2024-12-07 17:13:34 UTC-5

MagIC Net

2024-12-13 10:49:54

Sample type	Index	Conc.	Volume	Dilution	Sample amount	Area	Ident	Date
Standard 6	1	20.000	20.0	1.0	1.0	5.3200	STDG	2024-12-07 17:32:23 UTC-5
Standard 7	1	40.000	20.0	1.0	1.0	10.4771	STDH	2024-12-07 17:51:13 UTC-5
Standard 8	1	50.000	20.0	1.0	1.0	13.1150	STDI	2024-12-07 18:10:01 UTC-5
Standard 9	1	80.000	20.0	1.0	1.0	20.6116	STDJ	2024-12-07 18:28:49 UTC-5
Standard 10	1	100.000	20.0	1.0	1.0	25.7389	STDK	2024-12-07 18:47:37 UTC-5

MagIC Net

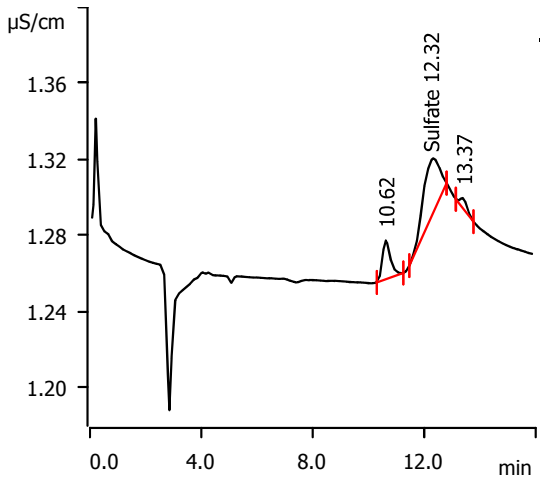
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDA
Sample type . . . . . Standard 100
Determination start 2024-12-07 15:39:24
Dilution factor 1.00

Anions

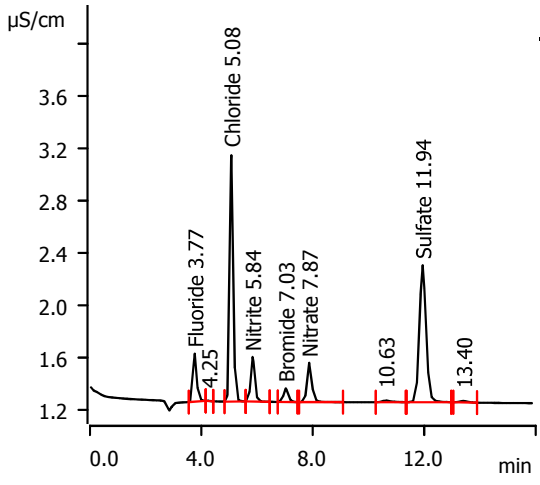


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
12.32	Sulfate	0.0202	-0.028	-0.028

Sample data

Ident . . . . . STDB
Sample type . . . . . Standard 1
Determination start 2024-12-07 15:58:12
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.0557	0.091	0.091
5.08	Chloride	0.2686	1.049	1.049
5.84	Nitrite	0.0570	0.109	0.109
7.03	Bromide	0.0203	0.250	0.250
7.87	Nitrate	0.0614	0.119	0.119
11.94	Sulfate	0.2869	0.997	0.997

MagIC Net

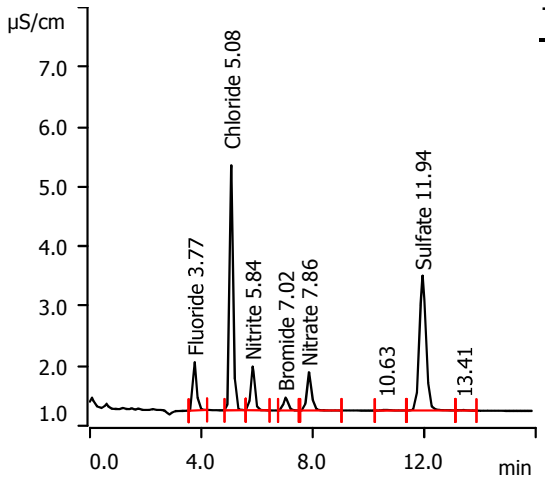
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDC
Sample type . . . . . Standard 2
Determination start 2024-12-07 16:17:04
Dilution factor 1.00

Anions

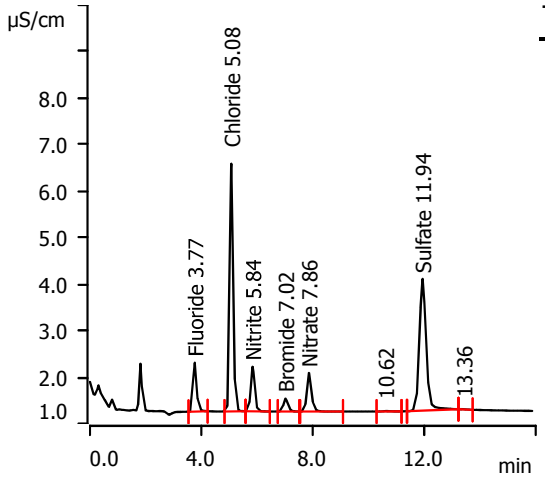


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.1194	0.193	0.193
5.08	Chloride	0.5781	1.963	1.963
5.84	Nitrite	0.1202	0.193	0.193
7.02	Bromide	0.0418	0.402	0.402
7.86	Nitrate	0.1270	0.197	0.197
11.94	Sulfate	0.6044	2.217	2.217

Sample data

Ident . . . . . STDD
Sample type . . . . . Standard 3
Determination start 2024-12-07 16:35:55
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.1535	0.248	0.248
5.08	Chloride	0.7491	2.469	2.469
5.84	Nitrite	0.1564	0.241	0.241
7.02	Bromide	0.0537	0.486	0.486
7.86	Nitrate	0.1633	0.240	0.240
11.94	Sulfate	0.7877	2.921	2.921

MagIC Net

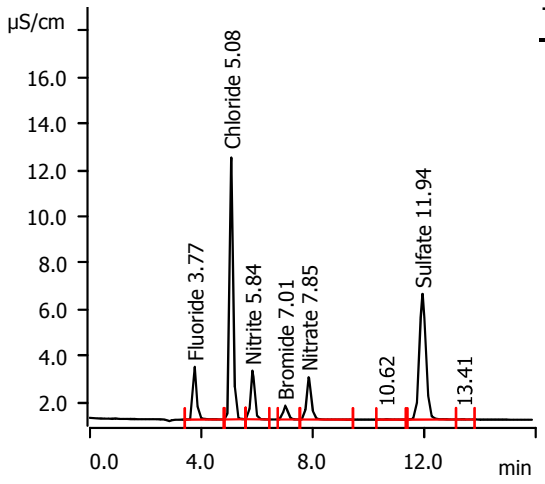
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDE
Sample type . . . . . Standard 4
Determination start 2024-12-07 16:54:45
Dilution factor 1.00

Anions

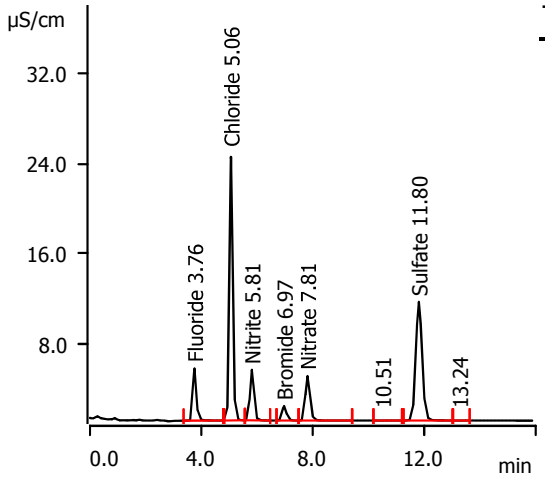


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	0.3359	0.540	0.540
5.08	Chloride	1.5852	4.939	4.939
5.84	Nitrite	0.3372	0.482	0.482
7.01	Bromide	0.1126	0.901	0.901
7.85	Nitrate	0.3502	0.462	0.462
11.94	Sulfate	1.4370	5.416	5.416

Sample data

Ident . . . . . STDF
Sample type . . . . . Standard 5
Determination start 2024-12-07 17:13:34
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	0.6721	1.079	1.079
5.06	Chloride	3.2813	9.950	9.950
5.81	Nitrite	0.7187	0.989	0.989
6.97	Bromide	0.2390	1.793	1.793
7.81	Nitrate	0.7510	0.937	0.937
11.80	Sulfate	2.7657	10.521	10.521

MagIC Net

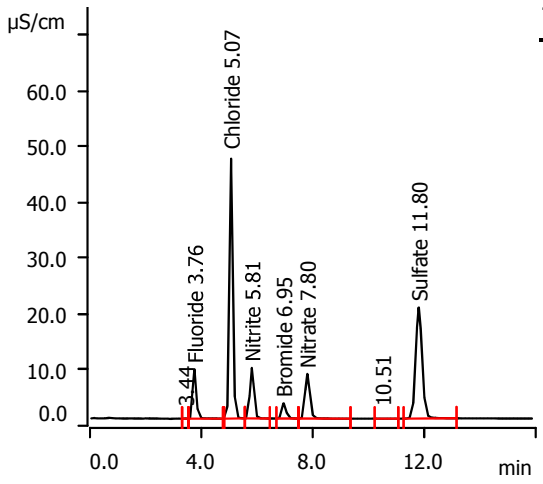
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDG
Sample type . . . . . Standard 6
Determination start 2024-12-07 17:32:23
Dilution factor 1.00

Anions

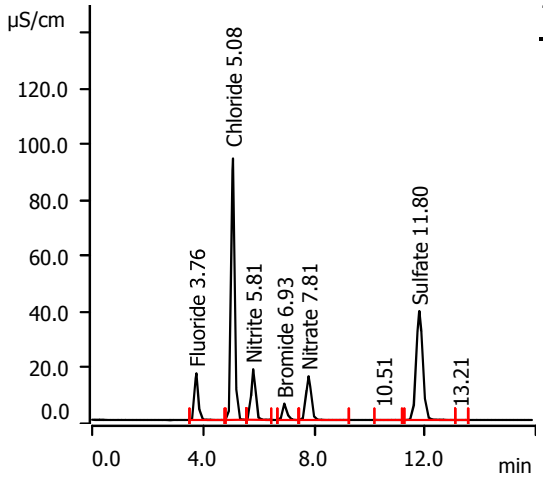


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	1.2805	2.055	2.055
5.07	Chloride	6.5681	19.661	19.661
5.81	Nitrite	1.4762	1.997	1.997
6.95	Bromide	0.5028	3.653	3.653
7.80	Nitrate	1.5606	1.898	1.898
11.80	Sulfate	5.3200	20.334	20.334

Sample data

Ident . . . . . STDH
Sample type . . . . . Standard 7
Determination start 2024-12-07 17:51:13
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	2.4816	3.980	3.980
5.08	Chloride	13.4660	40.042	40.042
5.81	Nitrite	3.0453	4.086	4.086
6.93	Bromide	1.0932	7.816	7.816
7.81	Nitrate	3.3044	3.966	3.966
11.80	Sulfate	10.4771	40.148	40.148

MagIC Net

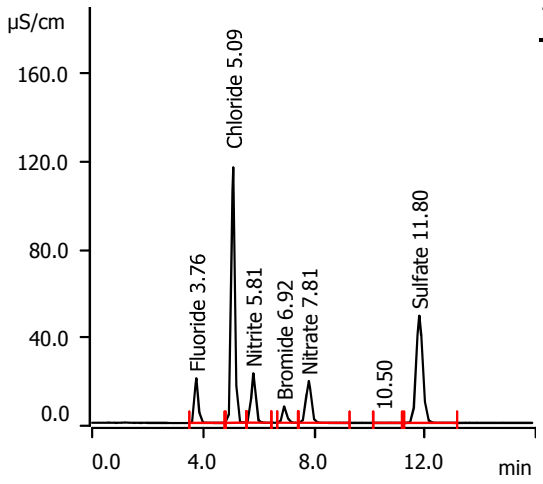
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDI
Sample type . . . . . Standard 8
Determination start 2024-12-07 18:10:01
Dilution factor 1.00

Anions

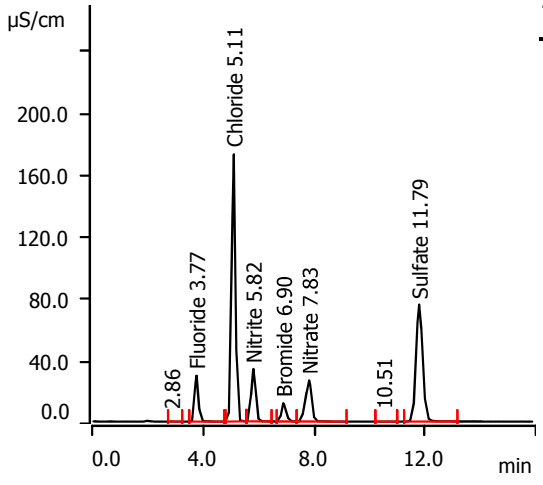


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	3.0418	4.878	4.878
5.09	Chloride	16.9973	50.475	50.475
5.81	Nitrite	3.8239	5.122	5.122
6.92	Bromide	1.4030	10.001	10.001
7.81	Nitrate	4.2048	5.035	5.035
11.80	Sulfate	13.1150	50.283	50.283

Sample data

Ident . . . . . STDJ
Sample type . . . . . Standard 9
Determination start 2024-12-07 18:28:49
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	4.6075	7.388	7.388
5.11	Chloride	26.8886	79.700	79.700
5.82	Nitrite	5.9544	7.957	7.957
6.90	Bromide	2.2873	16.237	16.237
7.83	Nitrate	6.7411	8.043	8.043
11.79	Sulfate	20.6116	79.085	79.085

MagIC Net

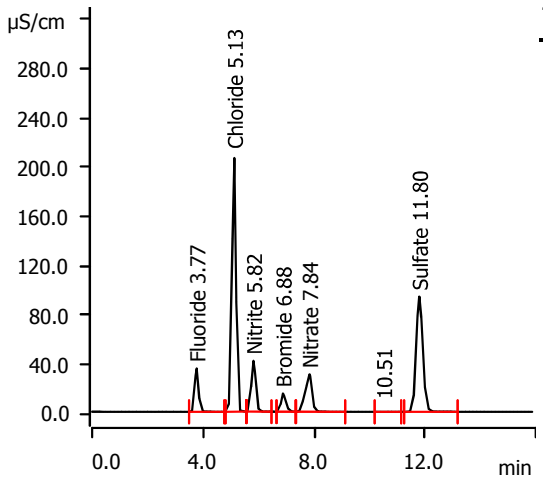
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . STDK
Sample type . . . . . Standard 10
Determination start 2024-12-07 18:47:37
Dilution factor 1.00

Anions

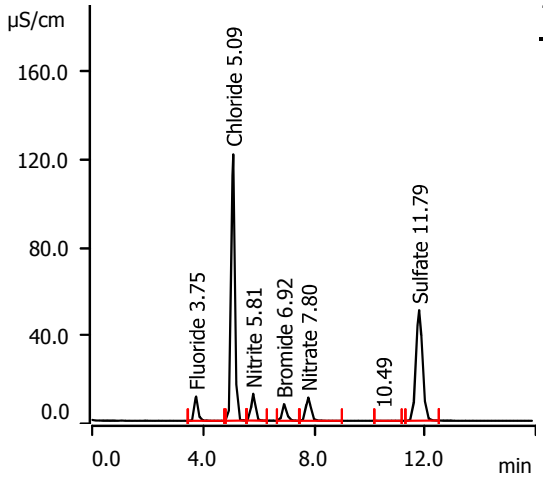


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.77	Fluoride	5.6439	9.050	9.050
5.13	Chloride	33.8501	100.268	100.268
5.82	Nitrite	7.4015	9.883	9.883
6.88	Bromide	2.9177	20.682	20.682
7.84	Nitrate	8.5380	10.175	10.175
11.80	Sulfate	25.7389	98.784	98.784

Sample data

Ident ICV
Sample type . . . . . Sample
Determination start 2024-12-07 19:06:25
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	1.6099	2.583	2.583
5.09	Chloride	17.7829	52.797	52.797
5.81	Nitrite	1.9984	2.692	2.692
6.92	Bromide	1.4379	10.247	10.247
7.80	Nitrate	2.1112	2.551	2.551
11.79	Sulfate	13.4829	51.696	51.696

MagIC Net

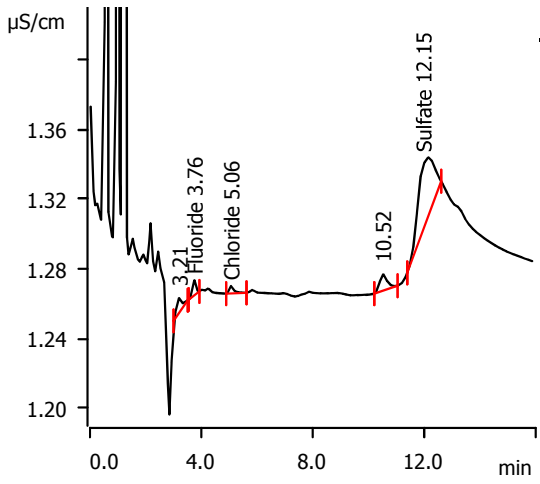
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . ICB
Sample type . . . . . Sample
Determination start 2024-12-07 19:25:13
Dilution factor 1.00

Anions

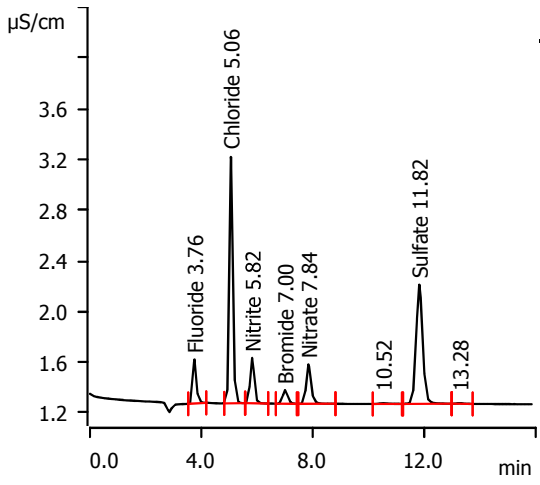


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	0.0012	0.004	0.004
5.06	Chloride	0.0009	0.258	0.258
12.15	Sulfate	0.0235	-0.015	-0.015

Sample data

Ident . . . . . CRI
Sample type . . . . . Sample
Determination start 2024-12-07 19:44:02
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	0.0518	0.085	0.085
5.06	Chloride	0.2771	1.074	1.074
5.82	Nitrite	0.0597	0.112	0.112
7.00	Bromide	0.0211	0.256	0.256
7.84	Nitrate	0.0631	0.121	0.121
11.82	Sulfate	0.2545	0.873	0.873

MagIC Net

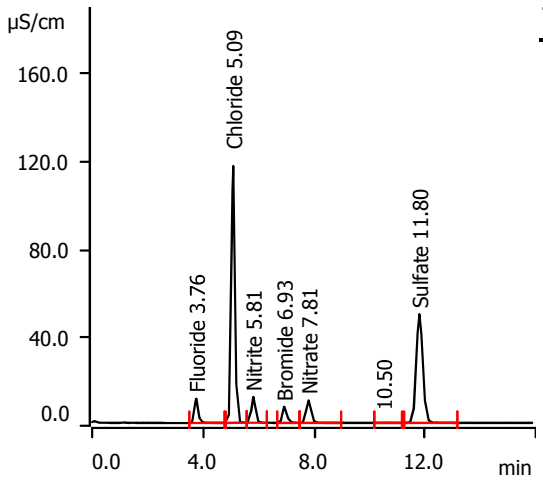
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-07 20:02:50
Dilution factor 1.00

Anions

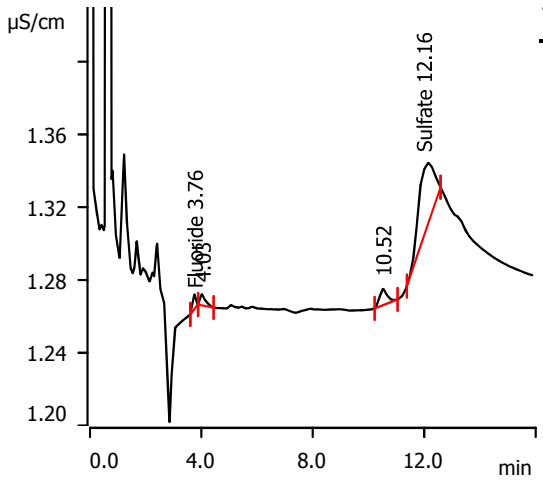


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.76	Fluoride	1.6385	2.628	2.628
5.09	Chloride	17.0745	50.704	50.704
5.81	Nitrite	1.9201	2.588	2.588
6.93	Bromide	1.4033	10.003	10.003
7.81	Nitrate	2.0291	2.454	2.454
11.80	Sulfate	13.3215	51.076	51.076

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-12-07 20:21:45
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	0.0010	0.003	0.003
12.16	Sulfate	0.0227	-0.018	-0.018

MagIC Net

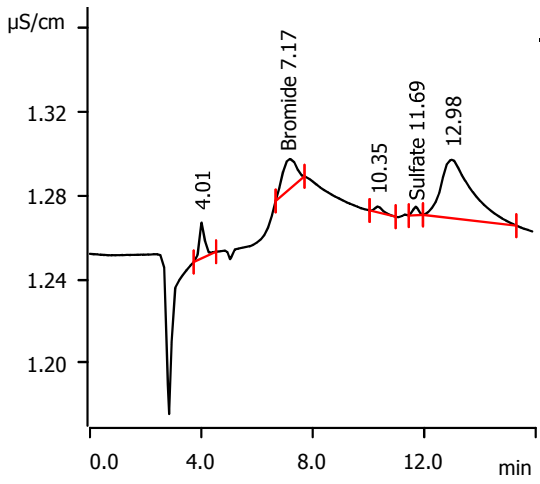
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident . . . . . Rinse
Sample type . . . . . Sample
Determination start 2024-12-12 10:13:58
Dilution factor 1.00

Anions

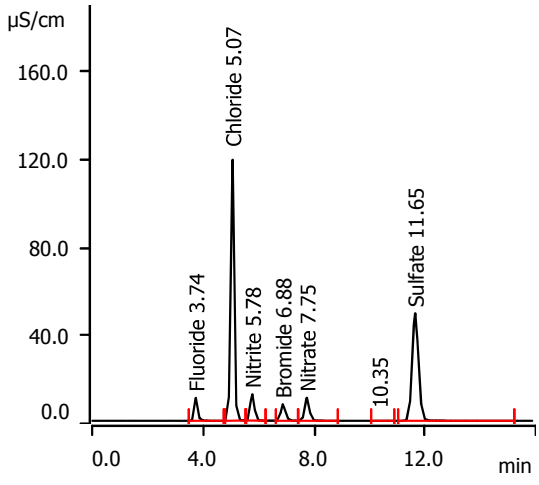


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
7.17	Bromide	0.0084	0.166	0.166
11.69	Sulfate	0.0010	-0.102	-0.102

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-12 10:37:37
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.4945	2.398	2.398
5.07	Chloride	17.1433	50.907	50.907
5.78	Nitrite	1.9346	2.608	2.608
6.88	Bromide	1.4175	10.103	10.103
7.75	Nitrate	2.0637	2.495	2.495
11.65	Sulfate	13.0202	49.918	49.918

MagIC Net

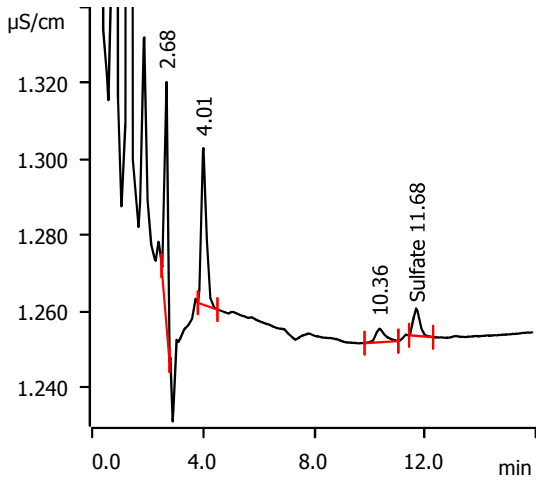
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-12-12 11:01:18
Dilution factor 1.00

Anions

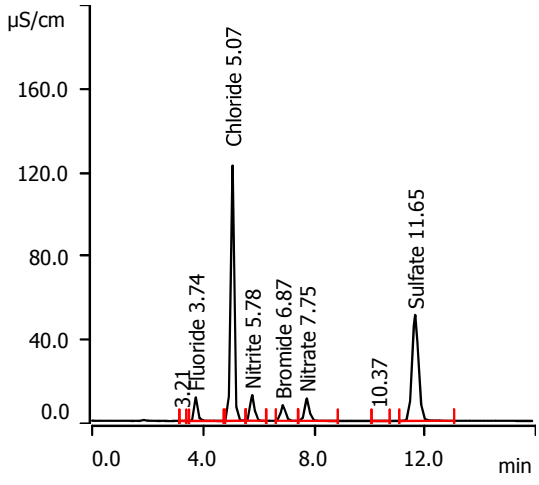


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.68	Sulfate	0.0019	-0.098	-0.098

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-12-12 11:20:09
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.6428	2.635	2.635
5.07	Chloride	17.6868	52.513	52.513
5.78	Nitrite	1.9869	2.677	2.677
6.87	Bromide	1.4299	10.191	10.191
7.75	Nitrate	2.1007	2.538	2.538
11.65	Sulfate	13.5096	51.799	51.799

MagIC Net

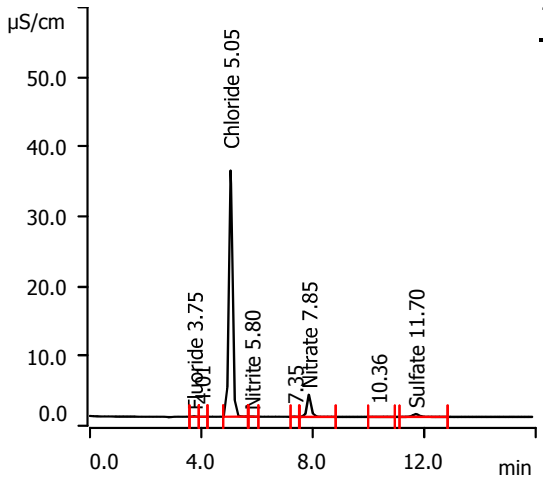
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21158-1
Sample type . . . . . Sample
Determination start 2024-12-12 11:38:58
Dilution factor 1.00

Anions

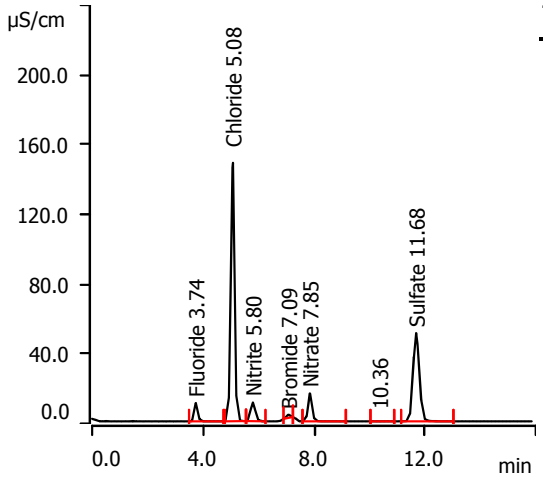


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0095	0.017	0.017
5.05	Chloride	5.2710	15.829	15.829
5.80	Nitrite	0.0019	0.035	0.035
7.85	Nitrate	0.5435	0.691	0.691
11.70	Sulfate	0.1108	0.320	0.320

Sample data

Ident FC21158-1S1
Sample type . . . . . Sample
Determination start 2024-12-12 11:57:48
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.5367	2.465	2.465
5.08	Chloride	22.8308	67.711	67.711
5.80	Nitrite	1.9790	2.667	2.667
7.09	Bromide	0.2967	2.200	2.200
7.85	Nitrate	2.7325	3.288	3.288
11.68	Sulfate	13.3558	51.208	51.208

MagIC Net

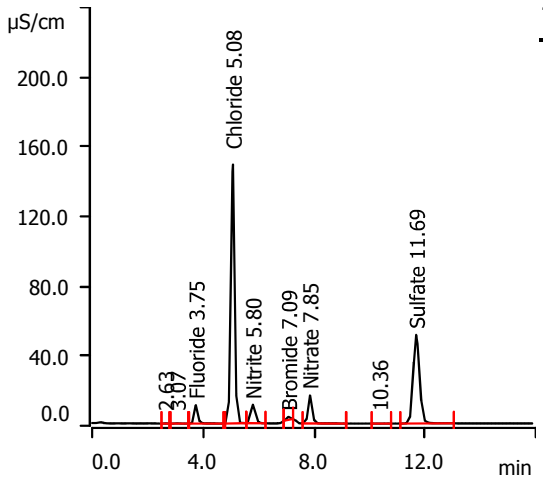
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21158-1S2
Sample type . . . . . Sample
Determination start 2024-12-12 12:16:38
Dilution factor 1.00

Anions

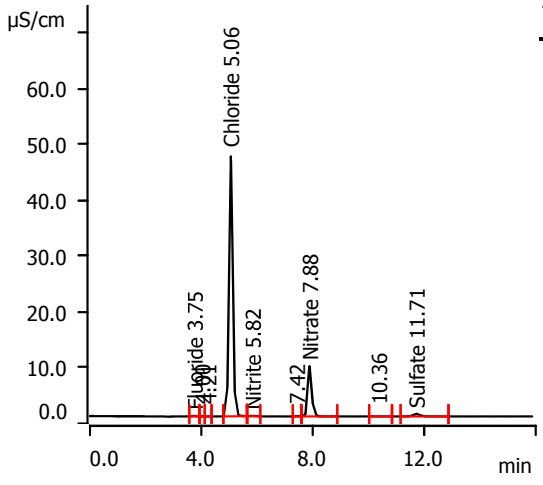


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	1.5399	2.470	2.470
5.08	Chloride	22.8340	67.720	67.720
5.80	Nitrite	1.9803	2.668	2.668
7.09	Bromide	0.2881	2.139	2.139
7.85	Nitrate	2.7332	3.289	3.289
11.69	Sulfate	13.4162	51.440	51.440

Sample data

Ident FC21158-2
Sample type . . . . . Sample
Determination start 2024-12-12 12:35:30
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0148	0.025	0.025
5.06	Chloride	7.2028	21.537	21.537
5.82	Nitrite	0.0126	0.050	0.050
7.88	Nitrate	1.5066	1.834	1.834
11.71	Sulfate	0.1333	0.407	0.407

MagIC Net

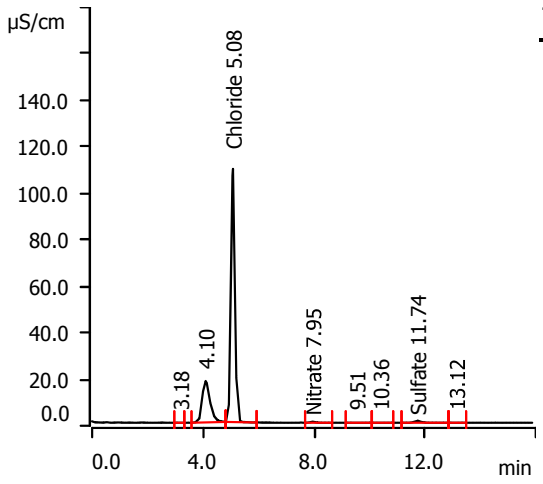
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21158-3
Sample type . . . . . Sample
Determination start 2024-12-12 12:54:20
Dilution factor 1.00

Anions

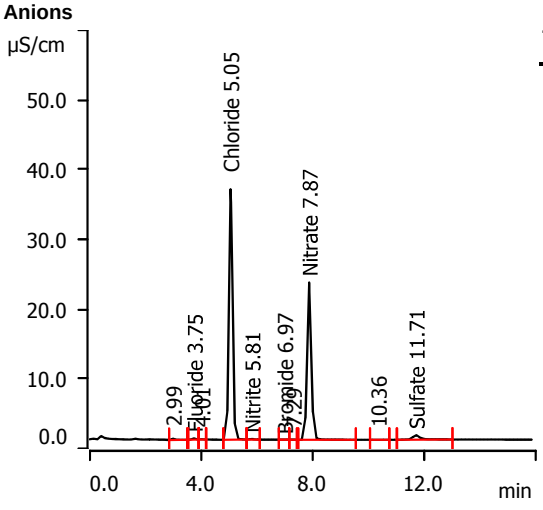


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.08	Chloride	17.6964	52.541	52.541
7.95	Nitrate	0.0844	0.147	0.147
11.74	Sulfate	0.2409	0.821	0.821

Sample data

Ident FC21158-4
Sample type . . . . . Sample
Determination start 2024-12-12 13:13:10
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0219	0.037	0.037
5.05	Chloride	5.3030	15.924	15.924
5.81	Nitrite	0.0140	0.051	0.051
6.97	Bromide	0.0008	0.113	0.113
7.87	Nitrate	3.9780	4.766	4.766
11.71	Sulfate	0.2038	0.678	0.678

MagIC Net

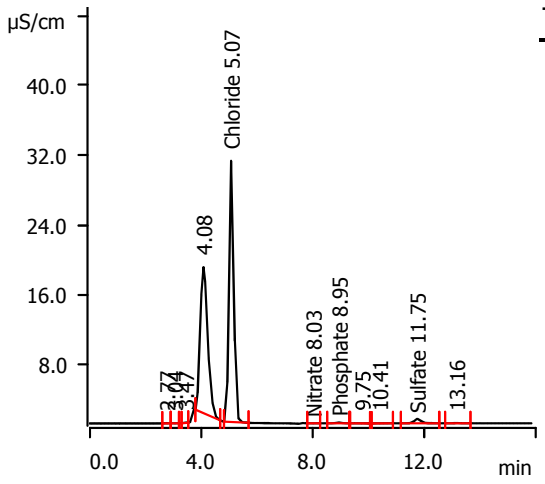
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21163-1
Sample type . . . . . Sample
Determination start 2024-12-12 13:56:35
Dilution factor 1.00

Anions

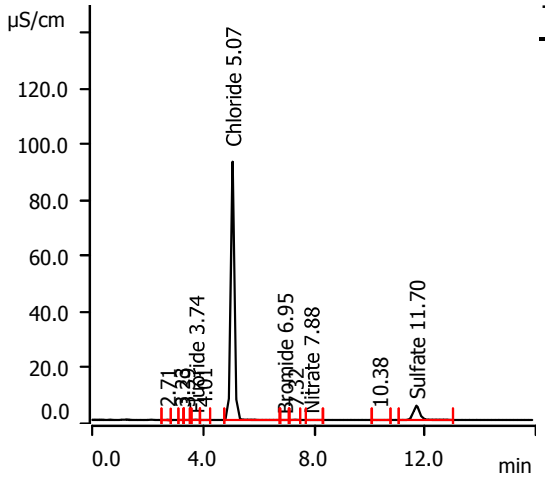


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.07	Chloride	5.9709	17.897	17.897
8.03	Nitrate	0.0012	0.048	0.048
8.95	Phosphate	0.0225	invalid	invalid
11.75	Sulfate	0.1424	0.442	0.442

Sample data

Ident FC21163-2
Sample type . . . . . Sample
Determination start 2024-12-12 14:15:23
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0123	0.021	0.021
5.07	Chloride	13.8305	41.119	41.119
6.95	Bromide	0.0012	0.116	0.116
7.88	Nitrate	0.0007	0.047	0.047
11.70	Sulfate	1.3435	5.056	5.056

MagIC Net

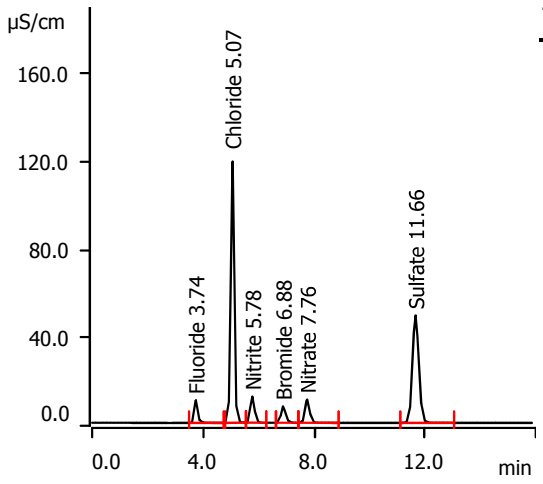
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-12 14:34:12
Dilution factor 1.00

Anions

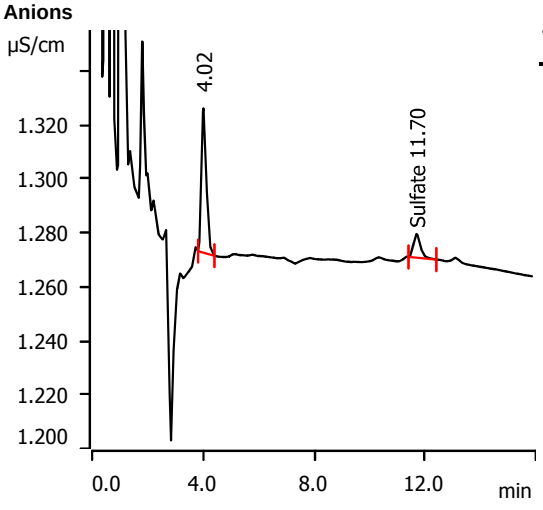


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.4929	2.395	2.395
5.07	Chloride	17.1901	51.045	51.045
5.78	Nitrite	1.9356	2.609	2.609
6.88	Bromide	1.4179	10.106	10.106
7.76	Nitrate	2.0672	2.499	2.499
11.66	Sulfate	12.9733	49.738	49.738

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-12-12 14:53:06
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.70	Sulfate	0.0025	-0.095	-0.095

MagIC Net

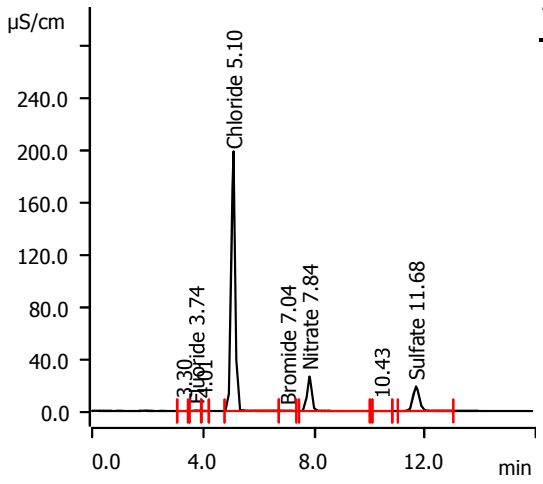
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21168-1
Sample type . . . . . Sample
Determination start 2024-12-12 15:11:56
Dilution factor 1.00

Anions

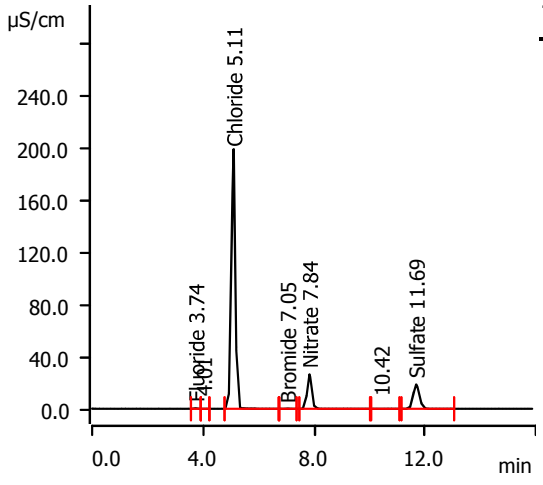


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0624	0.102	0.102
5.10	Chloride	31.8825	94.455	94.455
7.04	Bromide	0.0298	0.318	0.318
7.84	Nitrate	4.9236	5.887	5.887
11.68	Sulfate	4.8783	18.637	18.637

Sample data

Ident FC21168-2
Sample type . . . . . Sample
Determination start 2024-12-12 15:30:48
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0578	0.094	0.094
5.11	Chloride	31.9329	94.604	94.604
7.05	Bromide	0.0300	0.319	0.319
7.84	Nitrate	4.9411	5.908	5.908
11.69	Sulfate	4.8203	18.415	18.415

MagIC Net

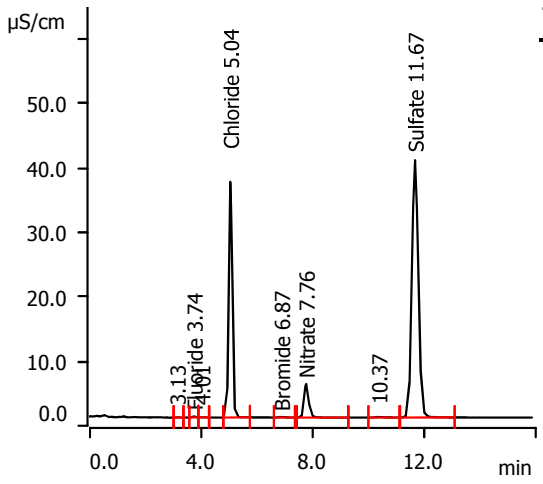
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21162-1
Sample type . . . . . Sample
Determination start 2024-12-12 15:49:38
Dilution factor 25.00

Anions

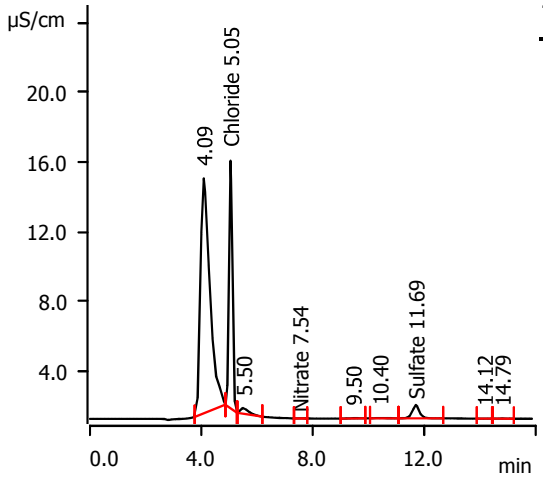


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0171	0.029	0.729
5.04	Chloride	5.1205	15.384	384.609
6.87	Bromide	0.0169	0.226	5.655
7.76	Nitrate	0.9828	1.212	30.308
11.67	Sulfate	10.5455	40.411	1010.267

Sample data

Ident FC21169-6
Sample type . . . . . Sample
Determination start 2024-12-12 16:35:52
Dilution factor 50.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.05	Chloride	1.9315	5.962	298.115
7.54	Nitrate	0.0012	0.048	2.393
11.69	Sulfate	0.2214	0.746	37.277

MagIC Net

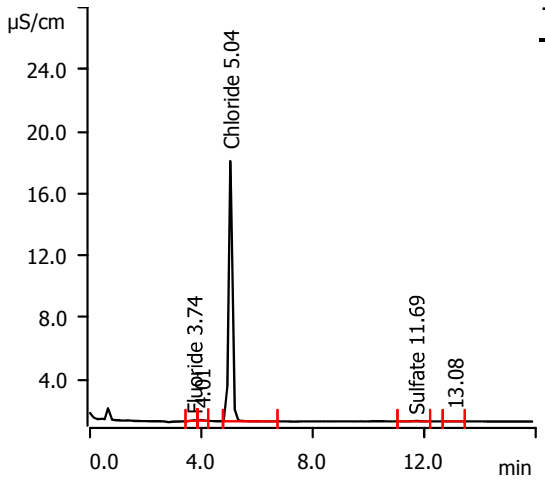
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21169-8
Sample type . . . . . Sample
Determination start 2024-12-12 17:00:15
Dilution factor 25.00

Anions

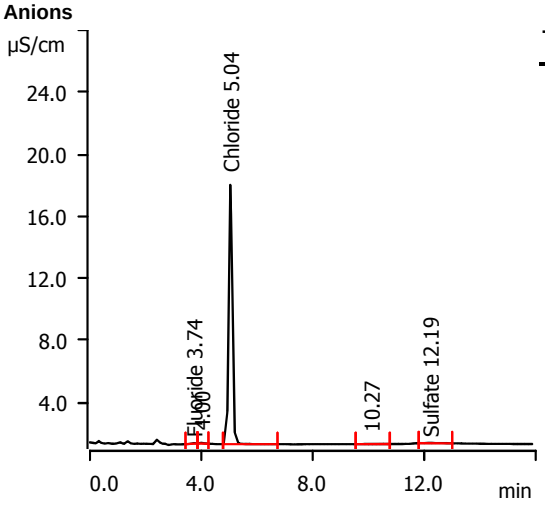


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0052	0.010	0.251
5.04	Chloride	2.4079	7.370	184.247
11.69	Sulfate	0.0094	-0.069	-1.730

Sample data

Ident FC21169-9
Sample type . . . . . Sample
Determination start 2024-12-12 17:18:49
Dilution factor 25.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0061	0.011	0.286
5.04	Chloride	2.3826	7.295	182.378
12.19	Sulfate	0.0118	-0.060	-1.495

MagIC Net

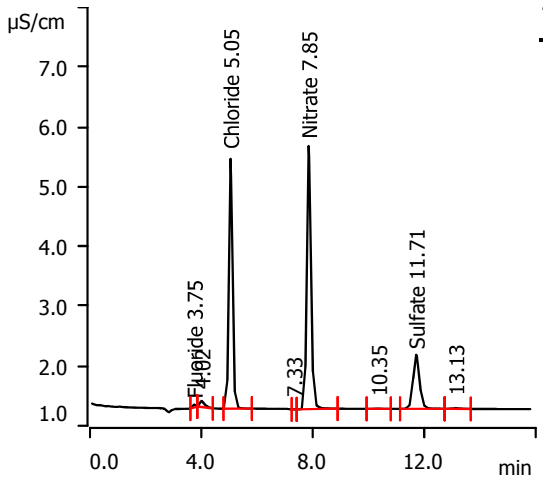
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21170-1
Sample type . . . . . Sample
Determination start 2024-12-12 17:37:22
Dilution factor 1.00

Anions

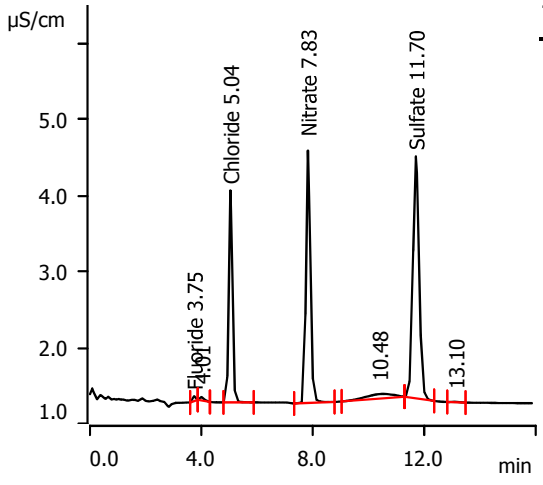


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0056	0.011	0.011
5.05	Chloride	0.6162	2.076	2.076
7.85	Nitrate	0.7606	0.949	0.949
11.71	Sulfate	0.2440	0.832	0.832

Sample data

Ident FC21170-2
Sample type . . . . . Sample
Determination start 2024-12-12 17:56:15
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0079	0.014	0.014
5.04	Chloride	0.4004	1.438	1.438
7.83	Nitrate	0.5834	0.739	0.739
11.70	Sulfate	0.8108	3.010	3.010

MagIC Net

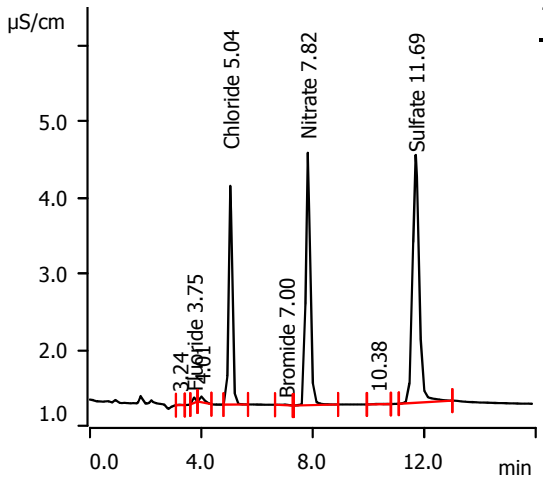
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21170-3
Sample type . . . . . Sample
Determination start 2024-12-12 18:15:03
Dilution factor 1.00

Anions

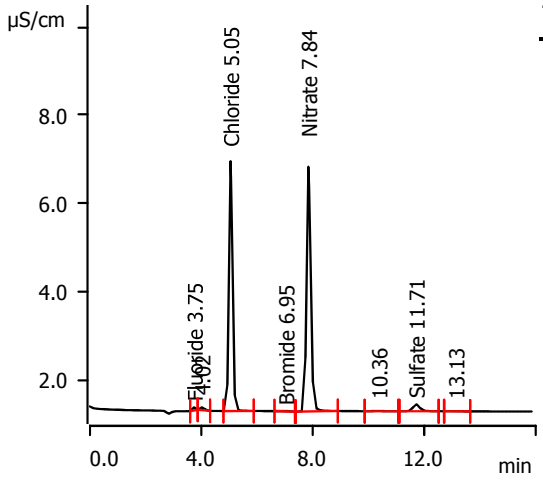


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0085	0.015	0.015
5.04	Chloride	0.4100	1.467	1.467
7.00	Bromide	0.0025	0.125	0.125
7.82	Nitrate	0.5864	0.742	0.742
11.69	Sulfate	0.8738	3.252	3.252

Sample data

Ident FC21170-4
Sample type . . . . . Sample
Determination start 2024-12-12 18:33:51
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	0.0085	0.015	0.015
5.05	Chloride	0.8224	2.685	2.685
6.95	Bromide	0.0027	0.126	0.126
7.84	Nitrate	0.9626	1.188	1.188
11.71	Sulfate	0.0455	0.070	0.070

MagIC Net

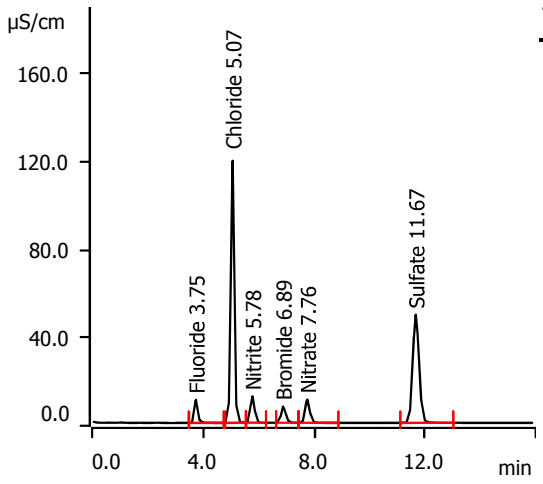
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-12 18:52:39
Dilution factor 1.00

Anions

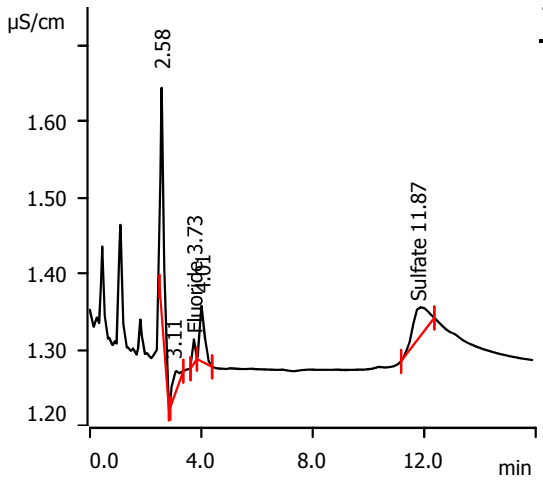


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	1.5385	2.468	2.468
5.07	Chloride	17.2370	51.183	51.183
5.78	Nitrite	1.9389	2.613	2.613
6.89	Bromide	1.4212	10.129	10.129
7.76	Nitrate	2.0726	2.505	2.505
11.67	Sulfate	13.0464	50.019	50.019

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-12-12 19:11:35
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.73	Fluoride	0.0034	0.007	0.007
11.87	Sulfate	0.0234	-0.015	-0.015

MagIC Net

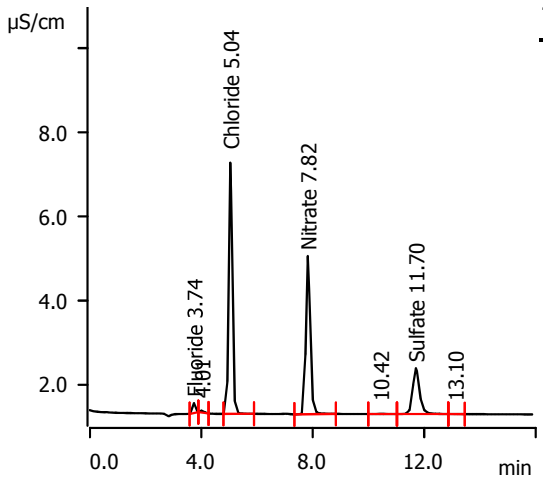
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21170-5
Sample type . . . . . Sample
Determination start 2024-12-12 19:30:25
Dilution factor 1.00

Anions

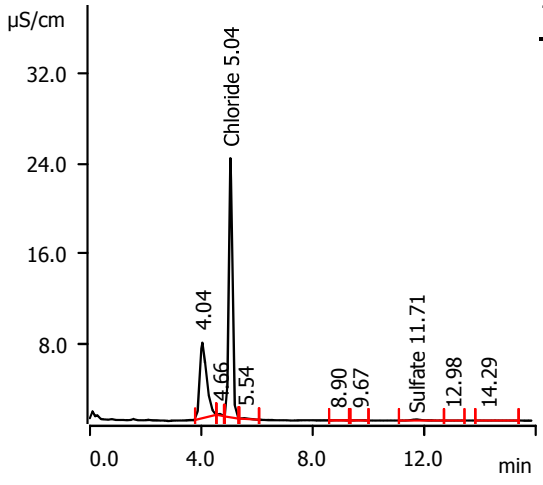


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0309	0.051	0.051
5.04	Chloride	0.8614	2.800	2.800
7.82	Nitrate	0.6647	0.835	0.835
11.70	Sulfate	0.3083	1.079	1.079

Sample data

Ident FC21172-2
Sample type . . . . . Sample
Determination start 2024-12-12 19:49:21
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.04	Chloride	3.2895	9.975	99.746
11.71	Sulfate	0.0315	0.016	0.158

MagIC Net

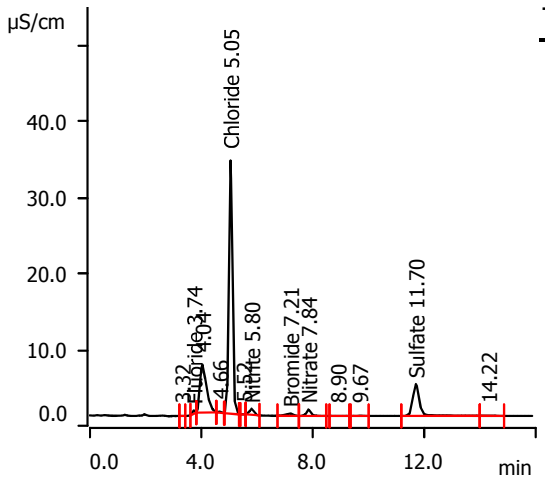
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21172-2S3
Sample type . . . . . Sample
Determination start 2024-12-12 20:07:55
Dilution factor 10.00

Anions

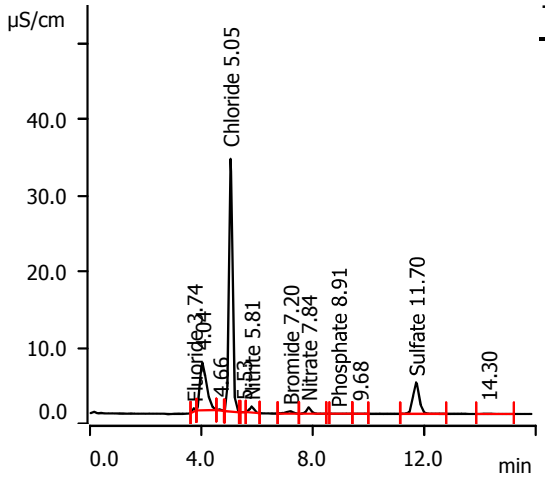


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0439	0.072	0.721
5.05	Chloride	4.7611	14.322	143.224
5.80	Nitrite	0.1392	0.218	2.180
7.21	Bromide	0.0934	0.766	7.658
7.84	Nitrate	0.1517	0.227	2.265
11.70	Sulfate	1.1588	4.347	43.468

Sample data

Ident FC21172-2S4
Sample type . . . . . Sample
Determination start 2024-12-12 20:26:29
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	0.0443	0.073	0.727
5.05	Chloride	4.7522	14.296	142.962
5.81	Nitrite	0.1389	0.218	2.177
7.20	Bromide	0.0936	0.768	7.677
7.84	Nitrate	0.1516	0.226	2.263
8.91	Phosphate	0.0026	invalid	invalid
11.70	Sulfate	1.0586	3.962	39.619

MagIC Net

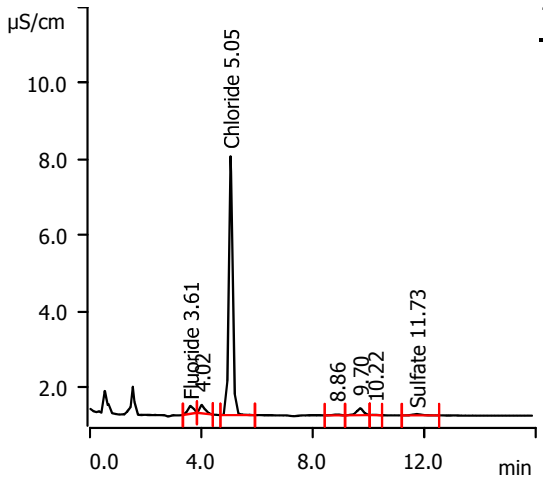
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21172-3
Sample type . . . . . Sample
Determination start 2024-12-12 20:45:02
Dilution factor 10.00

Anions

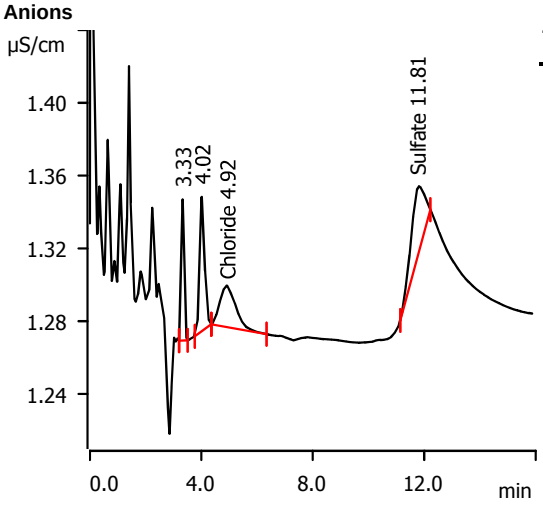


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.61	Fluoride	0.0504	0.083	0.825
5.05	Chloride	1.0503	3.359	33.587
11.73	Sulfate	0.0136	-0.053	-0.528

Sample data

Ident FC21172-5
Sample type . . . . . Sample
Determination start 2024-12-12 21:03:36
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
4.92	Chloride	0.0150	0.300	0.300
11.81	Sulfate	0.0206	-0.026	-0.026

MagIC Net

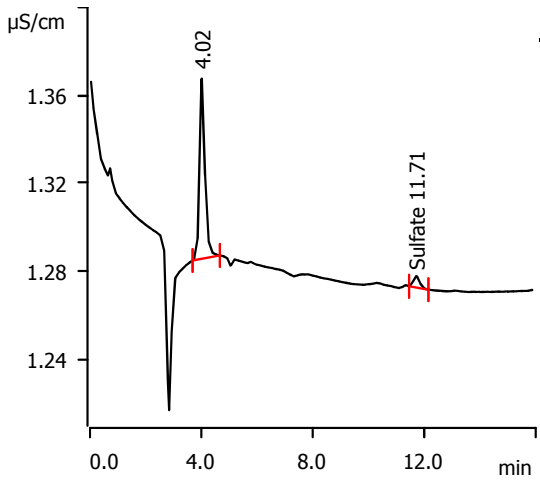
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident MB1
Sample type . . . . . Sample
Determination start 2024-12-12 21:22:29
Dilution factor 1.00

Anions

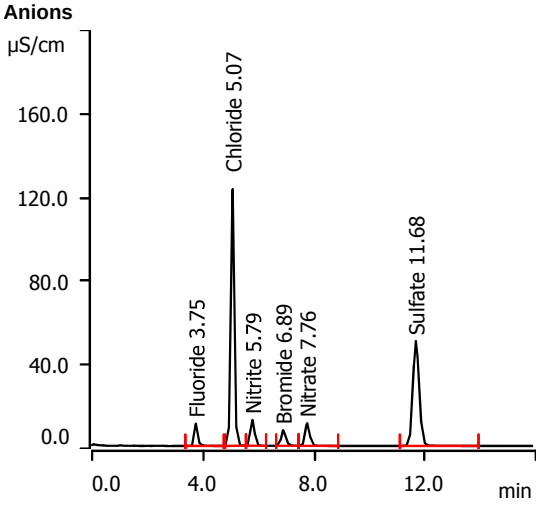


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.71	Sulfate	0.0013	-0.100	-0.100

Sample data

Ident B1
Sample type . . . . . Sample
Determination start 2024-12-12 21:41:18
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.75	Fluoride	1.5385	2.468	2.468
5.07	Chloride	17.8065	52.866	52.866
5.79	Nitrite	1.9960	2.689	2.689
6.89	Bromide	1.4381	10.248	10.248
7.76	Nitrate	2.1144	2.555	2.555
11.68	Sulfate	13.3507	51.188	51.188

MagIC Net

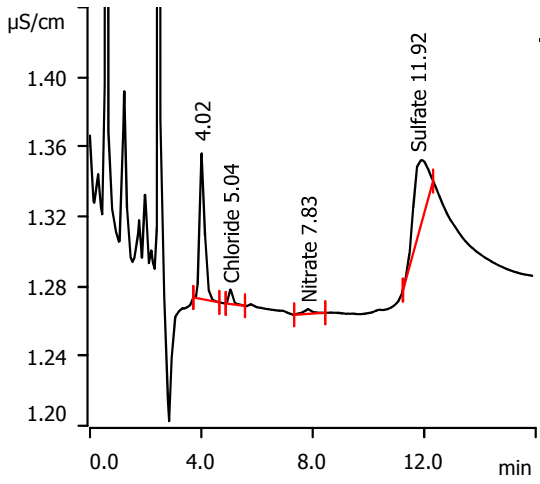
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21172-6
Sample type . . . . . Sample
Determination start 2024-12-12 22:00:06
Dilution factor 1.00

Anions

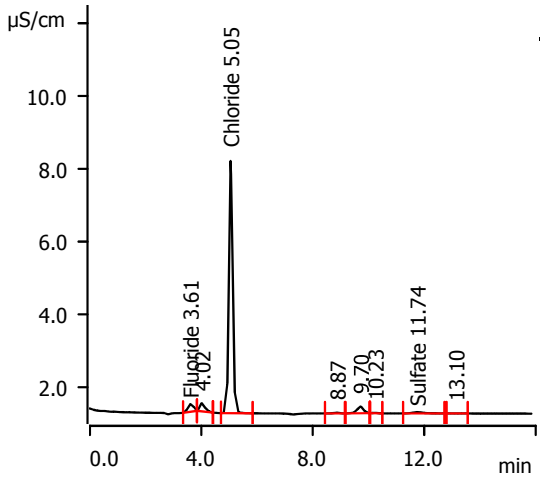


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
5.04	Chloride	0.0014	0.260	0.260
7.83	Nitrate	0.0010	0.048	0.048
11.92	Sulfate	0.0219	-0.021	-0.021

Sample data

Ident FC21172-4
Sample type . . . . . Sample
Determination start 2024-12-12 22:18:56
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.61	Fluoride	0.0511	0.084	0.836
5.05	Chloride	1.0596	3.386	33.860
11.74	Sulfate	0.0167	-0.041	-0.409

MagIC Net

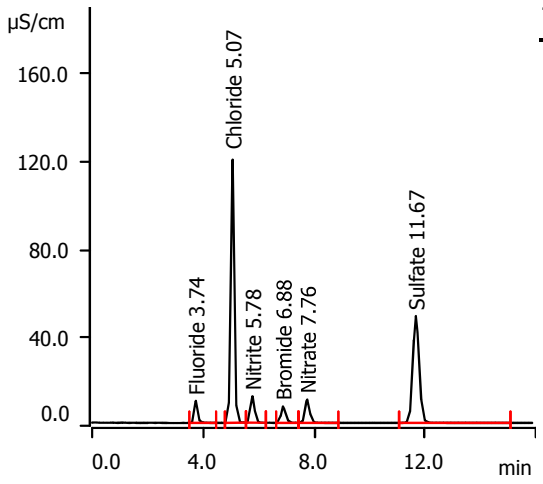
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-12 22:37:32
Dilution factor 1.00

Anions

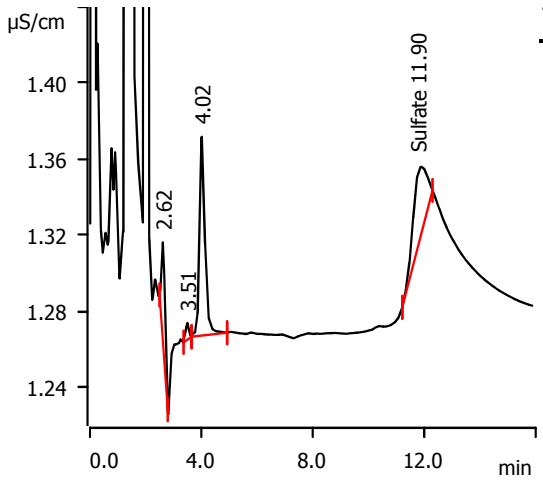


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.4361	2.304	2.304
5.07	Chloride	17.2758	51.298	51.298
5.78	Nitrite	1.9453	2.622	2.622
6.88	Bromide	1.4258	10.162	10.162
7.76	Nitrate	2.0782	2.512	2.512
11.67	Sulfate	12.9253	49.554	49.554

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-12-12 22:56:26
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.90	Sulfate	0.0210	-0.025	-0.025

MagIC Net

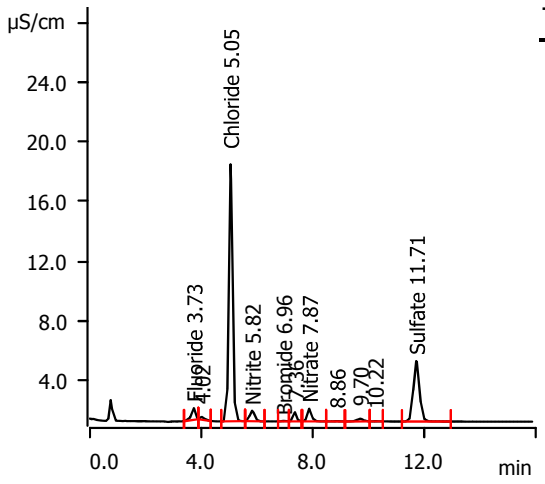
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident FC21172-4S1
Sample type . . . . . Sample
Determination start 2024-12-12 23:15:16
Dilution factor 10.00

Anions

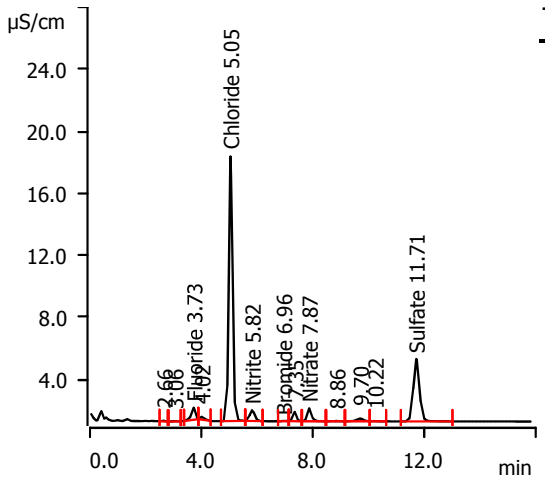


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.73	Fluoride	0.1331	0.215	2.151
5.05	Chloride	2.6015	7.942	79.419
5.82	Nitrite	0.1424	0.222	2.223
6.96	Bromide	0.0053	0.145	1.449
7.87	Nitrate	0.1507	0.225	2.253
11.71	Sulfate	1.0375	3.881	38.808

Sample data

Ident FC21172-4S2
Sample type . . . . . Sample
Determination start 2024-12-12 23:33:51
Dilution factor 10.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.73	Fluoride	0.1326	0.214	2.142
5.05	Chloride	2.5937	7.919	79.188
5.82	Nitrite	0.1399	0.219	2.190
6.96	Bromide	0.0048	0.141	1.414
7.87	Nitrate	0.1494	0.224	2.237
11.71	Sulfate	1.0296	3.851	38.506

MagIC Net

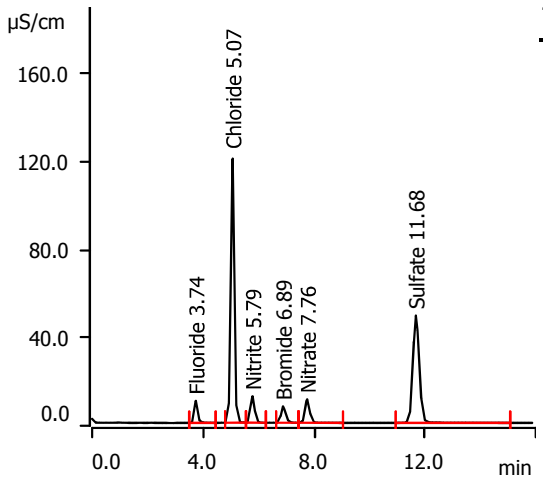
Summary Report

2024-12-13 10:50:01
MagIC Net 4.2 - 152

Sample data

Ident CCV
Sample type . . . . . Sample
Determination start 2024-12-12 23:52:25
Dilution factor 1.00

Anions

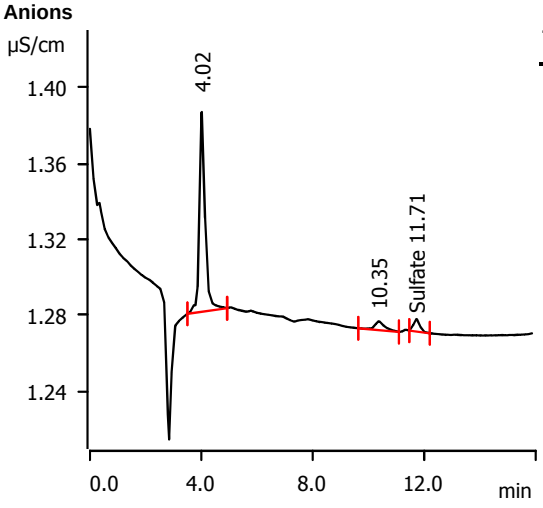


Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
3.74	Fluoride	1.4325	2.298	2.298
5.07	Chloride	17.2829	51.319	51.319
5.79	Nitrite	1.9419	2.617	2.617
6.89	Bromide	1.4278	10.175	10.175
7.76	Nitrate	2.0820	2.516	2.516
11.68	Sulfate	13.0629	50.083	50.083

Sample data

Ident . . . . . CCB
Sample type . . . . . Sample
Determination start 2024-12-13 00:11:20
Dilution factor 1.00

Anions



Retention Time (min)	Component Name	Area uS*min	Conc. on Column (mg/L)	Final Conc. (mg/L)
11.71	Sulfate	0.0017	-0.099	-0.099

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	WC2270	Agilent	4/30/2025	1000	2.5	25	100	12/11/2024	gn	2IC499	12/12/2024
1%NO3	NO3	WC2326	Agilent	5/31/2028	1000	2.5	25	100	12/11/2024	gn	2IC500	12/12/2024
CCV	NO2/NO3	2IC499/50	REF	12/12/2024	100	5	200	2.5	12/11/2024	gn	2IC501	12/12/2024
CCV	SO4	WC2328	Enviromental	4/1/2026	1000	10	200	50	12/11/2024	gn	2IC501	12/12/2024
CCV	Cl	WC2330	Spex	10/30/2025	1000	10	200	50	12/11/2024	gn	2IC501	12/12/2024
CCV	F	WC2348	Sigma	5/1/2026	1000	0.5	200	2.5	12/11/2024	gn	2IC501	12/12/2024
CCV	Br	WC2268	Spex	7/30/2025	1000	2	200	10	12/11/2024	gn	2IC501	12/12/2024
B1	NO2/NO3/F	WC2202	Absolute	3/19/2026	100	1.25	50	2.5	12/11/2024	gn	2IC502	12/12/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	12/11/2024	gn	2IC502	12/12/2024
B1	Br	---	---	---	400	---	---	10	12/11/2024	gn	2IC502	12/12/2024
1%NO2	NO2	WC2270	Agilent	4/30/2025	1000	2.5	25	100	12/12/2024	gn	2IC503	12/13/2024
1%NO3	NO3	WC2326	Agilent	5/31/2028	1000	2.5	25	100	12/12/2024	gn	2IC504	12/13/2024
CCV	NO2/NO3	2IC503/04	REF	12/13/2024	100	5	200	2.5	12/12/2024	gn	2IC505	12/13/2024
CCV	SO4	WC2328	Enviromental	4/1/2026	1000	10	200	50	12/12/2024	gn	2IC505	12/13/2024
CCV	Cl	WC2330	Spex	10/30/2025	1000	10	200	50	12/12/2024	gn	2IC505	12/13/2024
CCV	F	WC2348	Sigma	5/1/2026	1000	0.5	200	2.5	12/12/2024	gn	2IC505	12/13/2024
CCV	Br	WC2268	Spex	7/30/2025	1000	2	200	10	12/12/2024	gn	2IC505	12/13/2024
B1	NO2/NO3/F	WC2202	Absolute	3/19/2026	100	1.25	50	2.5	12/12/2024	gn	2IC506	12/13/2024
B1	SO4/Cl	---	---	---	2000	---	---	50	12/12/2024	gn	2IC506	12/13/2024
B1	Br	---	---	---	400	---	---	10	12/12/2024	gn	2IC506	12/13/2024

Method: ~~EPA300.0~~ / SW846 9056A (circle one)

Date:	12/12/2024 10:13	**Prep Batchs:**	40884/85	**Vial lot#**	761255-H23596	**ICAL:**	---
Analyst:	gn	**Analytical Batch:**	99347	**Eluent lot#**	GN38186	**ICV:**	---
Instrument:	IC 6	**Calibration Date:**	12/7/2024	**Suppressor regen. lot#**	GN38322	**CCV:**	2IC505
Inst. File Name:	62024121201.csv	**Pump pressure:**	8.29MPa	**Filter lot#**	---	**QC:**	2IC506

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							
MB1	---	AQ	---	1	N		x	x		x	x							
B1	---	AQ	---	1	N		x	x		x	x							
FC21158-1	14	AQ	73uS	1	N		x			x	x							
FC21158-1S1	14	AQ	73uS	1	N		x	x		x	x							
FC21158-1S2	14	AQ	73uS	1	N		x	x		x	x							
FC21158-2	14	AQ	89uS	1	N		x			x	x							
FC21158-3	14	AQ	350uS	1	N		x			x	x							
FC21158-4	13	AQ	96uS	1	N		x			x	x							
FC21163-1	18	AQ	663uS	1	N			x		x	x							
FC21163-2	12	AQ	183uS	1	N			x		x	x							
CCV	---	AQ	---	1	N		x	x		x	x							
CCB	---	AQ	---	1	N		x	x		x	x							
FC21168-1	1	AQ	430uS	1	N			x		x	x							
FC21168-2	1	AQ	432uS	1	N			x		x	x							
FC21162-1	3	AQ	3164uS	25	N		x	x		x	x							
FC21169-6	10	AQ	5600uS	50	N					x	x							
FC21169-8	10	AQ	2960uS	25	N					x	x							
FC21169-9	10	AQ	2900uS	25	N					x	x							
FC21170-1	10	AQ	33uS	1	N		x			x	x							
FC21170-2	10	AQ	46uS	1	N		x			x	x							
FC21170-3	10	AQ	46uS	1	N		x			x	x							
FC21170-4	10	AQ	33uS	1	N		x			x	x							
CCV	---	AQ	---	1	N		x			x	x							
CCB	---	AQ	---	1	N		x			x	x							
FC21170-5	10	AQ	132uS	1	N		x			x	x							
FC21172-2	28	AQ	2002uS	10	N					x	x							
FC21172-2S3	28	AQ	2002uS	10	N		x	x		x	x							

Method: ~~EPA300.0~~ / SW846 9056A (circle one)

Date:	12/12/2024 10:13	**Prep Batchs:**	40884/85	**Vial lot#**	761255-H23596	**ICAL:**	---
Analyst:	gn	**Analytical Batch:**	99347	**Eluent lot#**	GN38186	**ICV:**	---
Instrument:	IC 6	**Calibration Date:**	12/7/2024	**Suppressor regen. lot#**	GN38322	**CCV:**	2IC505
Inst. File Name:	62024121201.csv	**Pump pressure:**	8.29MPa	**Filter lot#**	---	**QC:**	2IC506

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
FC21172-2S4	28	AQ	2002uS	10	N		x	x		x	x							
FC21172-3	10	AQ	2732uS	10	N					x	x							
FC21172-5	10	AQ	9uS	1	N					x	x							
MB1	---	AQ	---	1	N					x	x							
B1	---	AQ	---	1	N					x	x							
FC21172-6	10	AQ	1uS	1	N					x	x							
FC21172-4	10	AQ	2622uS	10	N					x	x							
CCV	---	AQ	---	1	N		x	x		x	x							
CCB	---	AQ	---	1	N		x	x		x	x							
FC21172-4S1	10	AQ	2622uS	10	N					x	x							
FC21172-4S2	10	AQ	2622uS	10	N					x	x							
CCV	---	AQ	---	1	N					x	x							
CCB	---	AQ	---	1	N					x	x							
										x	x							