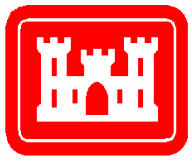
2021 Second Semiannual Groundwater Monitoring Report, Washrack Site

Environmental Long-Term Monitoring and Inspection Former U.S. Disciplinary Barracks (USDB) Lompoc, California

Prepared for:



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Lompoc, California

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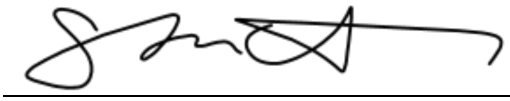

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Acronyms and Abbreviations

µg/L	micrograms per liter
Ahtna	Ahtna Global, LLC
amsl	Above mean sea level
bgs	Below ground surface
BOP	Bureau of Prisons
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
COC	contaminants of concern
cis-1,2-DCE	cis-1,2-Dichloroethene
COC	Contaminants of concern
DoD	Department of Defense
ERD	Enhanced reductive dechlorination
FCC	Federal Correctional Complex
FCI	Federal Correctional Institution
ft	Feet
ICC	Intensive Confinement Center
LUC	Land use controls
MCL	Maximum Contaminant Level
MS/MSD	Matrix spike/matrix spike duplicate
PCE	Tetrachloroethene
PDB	Passive diffusion bag
PMM	Mitigation Monitoring Plan
QAPP/WP	Quality Assurance Project Plan/Work Plan
QC	Quality control
TCE	Trichloroethene
TCRA	Time-Critical Removal Action
USACE	United States Army Corp of Engineers
USDB	United States Disciplinary Barracks
USP	United States Penitentiary
VC	Vinyl chloride
VOC	Volatile organic compound

1.0 Introduction

On behalf of the United States Army Corps of Engineers (USACE), per Contract No. W912PL18D0044, Delivery Order No. W912PL21F0041, Ahtna Global, LLC (Ahtna) has prepared this *Second Semiannual Groundwater Monitoring Report* for the Washrack Site located at the Former United States Disciplinary Barracks (USDB), Lompoc, California (Figure 1). The report documents the methods and results of the 2021 semiannual groundwater monitoring event conducted at the Washrack Site in December 2021. The 2021 first semiannual groundwater monitoring event was not performed due to a change in Army subcontractor.

As part of the semiannual groundwater monitoring event, Ahtna conducted performance monitoring of the enhanced reductive dechlorination (ERD) program at the Washrack (consisting of the Washrack and Greaserack sites) as detailed in the *Final Post Mitigation Monitoring Plan (PMM*), *Washrack Site, Former United States Disciplinary Barracks, Lompoc, California* (Arcadis, 2009a), and associated Change Memorandum (IES, 2010a; IES, 2010b). The last ERD injections were performed in 2008.

2.0 Background

The USDB is located 1.5 miles northwest of downtown Lompoc, California (approximately 50 miles northwest of Santa Barbara, California) (Figure 1). The Lompoc Valley, part of the central California coastal region, is surrounded by rolling hills to the north, south, and east and is open toward the west. The Santa Ynez River, along the southern boundary of the property, runs from east to west through the valley before it empties into the Pacific Ocean approximately 5 miles to the west.

In 1941, the United States War Department purchased the property to establish Fort Cooke, a tank-training base. In 1946, the USDB was built as a military detention center. In July 1959, the USDB and the surrounding land were permitted to the Bureau of Prisons (BOP) and renamed the Federal Correctional Institution (FCI). In July 1981, the FCI officially became a United States Penitentiary (USP). The property, currently and from now on referred to as the Federal Correctional Complex (FCC), includes the USP, the Federal Prison Camp (a minimum-security prison), the FCI (a low-security prison), the Sewage Treatment Plant, the Farm area, UNICOR Federal Prison Industries, the Dairy, and the Intensive Confinement Center (ICC).

The Washrack Site is located directly to the north of the USP (Figure 1). The Washrack is an approximately 950 square foot, 4-inch thick concrete wash pad. A high-pressure steam-cleaning unit used to clean vehicles was stored in a small shed at one corner of the pad. The concrete wash pad was sloped, so that water from the steam-cleaning process was drained into a 2 feet (ft) by 4 ft catch basin in the middle of the pad. In the past, water drained from the catch basin through underground piping to the sanitary sewer line and then into the FCC's wastewater treatment plant.

The Greaserack Site, considered part of the Washrack Site, is located approximately 100 ft to the south of the concrete wash pad. This area was also used to clean and service USDB, and later BOP, vehicles. Equipment was removed and the area is paved and now includes an aboveground tank storing propane for fueling forklifts. The areas surrounding the Site, which are mostly paved and generally busy with vehicular and pedestrian traffic, include a paved access road and warehouse to the north; a grassy area and the Transportation Building to the east; the fenced yard of the USP (the medium-security prison) to the south; and paved areas with equipment and vehicles to the west (ERRG, 2021).

2.1 Geology and Hydrogeology

The FCC is located in the northern Lompoc Plain and rolling hills of the Lompoc Upland. The Lompoc Upland borders the Lompoc Plain to the north in the vicinity of the Complex. The Lompoc Valley in the Lompoc Plain is open to the west to the Pacific Ocean. The valley and its coastline are underlain by unconsolidated deposits, including terrace deposits (0 to 150 ft thick), the Orcutt Sand (0 to 300 ft thick), and the Careaga Sand (450 to 1,000 ft thick). Ground surface elevations across the FCC range from 40 ft above mean sea level (amsl) on the Lompoc Plain to 130 ft amsl in the Lompoc Upland. The site topography generally slopes toward the south (toward the Santa Ynez River) with southerly flowing drainages.

Monitoring wells drilled into the Lompoc Plain indicate alluvium consisting of silty sand and sandy clay extending to over 40 ft below ground surface (bgs). Monitoring wells drilled in the Lompoc Upland are underlain by sand or gravelly sand to the depths explored (140 ft bgs). Published geologic maps suggest

that the geologic units underlying the Upland area include terrace deposits, the Orcutt Sand, and the Careaga Sand.

The FCC is within the Lompoc subunit of the Santa Ynez River Basin, including two water-bearing units, the Upper and Lower Aquifers. The Upper Aquifer is limited to the Lompoc Plain; the Lower Aquifer exists at depth beneath the Upper Aquifer on the Lompoc Plain and in the Lompoc Upland areas. The FCC crosses the contact between the Lompoc Plain and the Lompoc Upland or the Upper Aquifer and Lower Aquifers, respectively. The Washrack Site overlies the Upper Aquifer deposits, and in the vicinity of the FCC, the Orcutt Sand is partially saturated (ERRG, 2021).

Based on previous investigations at the Site, the subsurface lithology consists primarily of sand from the ground surface to approximately 15 to 20 ft bgs. Silts and clays are predominantly present from below this sand interval to approximately 45 to 50 ft bgs. This silt and clay interval also contains some interbedded lenses of fine-grained sand that are less than four feet in thickness. Fine to medium-grained sand is encountered below approximately 45 to 50 ft bgs (at the base of the silts and clays). Coarse-grained sand with gravel is encountered to between approximately 110 and 130 ft bgs, and finer grained materials (silts, clayey sand, and/or clays) are encountered between approximately 130 and 140 ft bgs. Groundwater in the shallow A-Zone is first typically encountered at depths ranging from 80 to 85 ft bgs (approximately 35–40 ft amsl). Saturated sands extend to 140 ft bgs, the depth of the deep (B-Zone) well WR-MW-01B (Arcadis, 2004b).

The flow direction within the A-Zone is typically northwest at a low gradient with less than 1 foot of elevation difference between the most upgradient (WR-MW-08A) and most downgradient (WR-MW-04A) wells, located approximately 250 ft apart. Seasonal variations in water levels are small, and groundwater has risen slowly across the Site in recent years, with most rising 1–2 ft since 2016.

2.2 Previous Investigations and Cleanup

The Washrack Site (inclusive of the Washrack and Greaserack sites) is located immediately north of the USP. This site may have been used for vehicle maintenance in the past. Total petroleum hydrocarbons have been tentatively identified in soils south of the former Washrack. Groundwater sampling has identified organic constituents in groundwater at the Washrack Site, including tetrachloroethene (PCE) and trichloroethene (TCE) above the Maximum Contaminant Level (MCL) of 5 micrograms per liter (µg/L) for each compound. The state and federal MCLs for TCE and PCE are the same.

In July 2001, quarterly groundwater monitoring was initiated at the Washrack Site with monitoring wells WR-MW-01, WR-MW-02, and WR-MW-03. In September 2002, ten additional groundwater monitoring wells were installed (WR-MW-01B, WR-MW-04A and B, WR-MW-05A and B, WR-MW-06A and B, WR-MW-07, WR-MW-08A, and WR-MW-09A; Figure 2) to delineate the lateral and vertical limits of the PCE/TCE plume. In addition, four injection wells (WR-IW-01 through WR-IW-04) were installed to initiate an ERD program at the Site.

The ERD program, beginning in December 2002, was implemented at the Washrack Site as a Time-Critical Removal Action (TCRA) due to its proximity to the Lompoc federal prison and the associated security risks. Discussion and documentation of the TCRA are presented in *the Action Memorandum for the Time-Critical Removal Action (TCRA) under the Comprehensive Environmental Response, Compensation, and Liability*

Act (CERCLA) for the "Washrack" and "Farm Fuel" Sites (HQDA BRAC AFO, 2006). Discussions related to the start-up and preliminary data of the ERD program were presented in the *Final Enhanced Reductive Dechlorination Start-up Report for the Washrack and Farm Fuel Sites* (Arcadis, 2004a).

In July 2004, the plume was further delineated in accordance with the *Final Enhanced Reductive Dechlorination (ERD) Expansion Work Plan for the Washrack Site* (Arcadis, 2004b). As part of the plume delineation, two additional monitoring wells (WR-MW-10A and WR-MW-11A) were installed and monitored since the third quarter of 2004.

An injection event was conducted in July 2004 to supplement the ERD program. Fifteen temporary injection borings were used to further distribute total organic carbon to the impacted areas. Results of the field activities were presented in the *Technical Memorandum – Plume Delineation and Enhanced Reductive Dechlorination Expansion Program, Washrack Site* (Arcadis, 2005a).

In September 2005, the ERD program was expanded at the Washrack Site by adding 12 injection wells (WR-IW-05 through WR-IW-16) and one monitoring well (WR-MW-12A) in accordance with the *Analysis of ERD Injections and Proposed Expansion of the ERD Program at the Washrack Site* (Arcadis, 2005b). One monitoring well (WR-MW-04B) was destroyed in accordance with the *Proposed Well Abandonment at the Former United States Disciplinary Barracks* (Arcadis, 2005c). Details of the ERD expansion, well installation, and survey activities were presented in the *Technical Memorandum –Expansion of the ERD Remediation System at the Washrack Site* (Arcadis, 2005d). Details of the well destruction activities were presented in the *Documentation of Well Abandonment and Well Construction Letter (*Arcadis, 2005e).

In June 2006, injection/tracer tests were performed at monitoring wells WR-MW-01 and WR-MW-09A. The tests' results and conclusions were presented in the *ERD Injection Tests at the Washrack Site* (Arcadis, 2006). The last injection event was completed in December 2008 and included focused groundwater monitoring at wells WR-MW-10A through WR-MW-12A.

In September 2009, two monitoring wells (WR-MW-06A and B) and all 16 injection wells (WR-IW-01 to WR-IW-16) were destroyed in accordance with the *Proposed Well Abandonment at the Former United States Disciplinary Barracks* (Figure 2; Arcadis, 2005c). Monitoring wells that were selected for destruction were consistently non-detect for VOCs and met the criteria for destruction as described in the approved PMM (Arcadis, 2009b). Details of the well destruction activities were presented in the *Documentation of Well Abandonment and Well Construction Letter* (Arcadis, 2009a).

The BOP has implemented land use controls (LUCs) throughout the Washrack area. LUCs are necessary to restrict land and groundwater use and prevent unacceptable risks. LUCs at the Site include:

- Restriction of groundwater withdrawal and protecting the integrity of existing and proposed wells to prevent exposure to groundwater
- BOP will not allow or conduct extraction, injection, sampling, incidental disturbance during soil excavation, or any other activity potentially or contacting, handling, impacting, or involving subject waste constituting plume without approval from the Central Coast Regional Water Quality Control Board.

BOP conducts periodic inspections of the Site to ensure compliance with all criteria stated.

2.3 Contaminants of Concern

The contaminants of concern (COCs) for the Washrack Site are PCE, TCE, and degradation products. As of this report, COCs are present in the groundwater at concentrations exceeding MCLs. Degradation product concentrations are considered indicative of the reductive dechlorination process. Other site-specific COCs were below laboratory detection limits.

Table 2-1. Maximum Contaminant Levels

			MCL (µg/L)	
Contaminant	**Short Name**	**CAS No.**	**California[1]**	**Federal[2]**
cis-1,2-Dichloroethene	cis-1,2-DCE	156-59-2	6	70
Tetrachloroethene	PCE	127-18-4	5	5
Trichloroethene	TCE	79-01-6	5	5
Vinyl chloride	VC	75-01-4	0.5	2

Notes:
[1] Environmental Screening levels (RWQCB, 2021)
[2] National Primary Drinking Water Regulations (USEPA, 2022)
CAS Chemical Abstract Service Number
µg/L microgram per liter

2.4 Other Contaminants

Other compounds have been detected above MCLs less frequently and are thus not considered COCs (Table 2-2). Arsenic and chromium MCL exceedances have been attributed to secondary effects of the ERD program. The last time that metals sampling was performed (November 2014), arsenic and chromium were detected above their respective MCLs (IES, 2014). However, due to insufficient water levels at the Site, sample analyses have been limited to VOCs since 2016.

Table 2-2. Non-COC Maximum Contaminant Level Exceedances

Contaminant	MCL (µg/L)		Date of Last California MCL Exceedance
	California[1]	Federal[2]	
Benzene	1	5	04/18/2002
Methyl tert-butyl ether	13	None	12/08/2004
bis(2-Ethylhexyl)-phthalate	4	6	10/03/2002
Arsenic	10	10	11/05/2014
Cadmium	5	5	10/03/2002
Chromium	50	100	11/04/2014
Lead	15	15	07/27/2001
Mercury	2	2	07/27/2001
Nickel	100	None	12/12/2007
Selenium	50	50	09/30/2002
Nitrite (as Nitrogen)	1,000	1,000	06/26/2003

Notes:
[1] Environmental Screening levels (RWCQB, 2021)
[2] National Primary Drinking Water Regulations (USEPA, 2022)
µg/L microgram per liter

3.0 Groundwater Monitoring Methods and Procedures

The 2021 second semiannual groundwater monitoring fieldwork was conducted on December 2 and 16, 2021. Fieldwork was performed according to the requirements specified in the following project plans:

- *Accident Prevention Plan, Environmental Long-Term Monitoring and Inspection, Former U.S. Disciplinary Barracks, Lompoc, California* (Ahtna, 2021a)
- *Quality Assurance Project Plan/Work Plan (QAPP/WP), Environmental Long-Term Monitoring and Inspection, Former U.S. Disciplinary Barracks, Lompoc, California* (Ahtna, 2021b)
- *Post Mitigation Monitoring Plan (PMM), Washrack Site, Former U.S. Disciplinary Barracks, Lompoc, California (*ARCADIS, 2009b)
- *Change Memorandum No. 1 – Final Post Mitigation Monitoring Plan, Washrack Site, Former United States Disciplinary Barracks, Lompoc, CA* (IES, 2010a)
- *Change Memorandum – Final Post Site Mitigation Monitoring Program, Washrack Site, Former United States Disciplinary Barracks, Lompoc, CA.* (IES, 2010b)

Field activities were documented through field notes and photographs, and the necessary field forms were completed. Field measurements were recorded on the appropriate data sheets, and samples were managed, labeled, and tracked according to the chain of custody and QAPP/WP requirements. Daily field reports are included in Appendix A.

3.1 Current Monitoring Program

The ERD program reduced concentrations of volatile organic compounds (VOCs) in groundwater. Since 2009, groundwater monitoring has been performed at the Washrack Site under the requirements of the *Final Post Mitigation Monitoring Plan (PMM), Washrack Site* (Arcadis, 2009b) and associated change memorandums (IES, 2010a, 2010b). The current monitoring program assesses contaminant reductions, plume extents, and plume stability.

Currently, there are 11 existing monitoring wells at the Site. Well locations are shown in Figure 2.

WR-MW-01	WR-MW-04A	WR-MW-08A	WR-MW-11A
WR-MW-01B	WR-MW-05A	WR-MW-09A	WR-MW-12A
WR-MW-02	WR-MW-07A	WR-MW-10A	

Monitoring well WR-MW-07A previously served as an upgradient/background monitoring well for the ERD program. Sampling was discontinued at WR-MW-07A after the ERD program ended. Currently, WR-MW-07A is used for water levels only. Sampling is performed annually in the fourth quarter at well WR-MW-01B. The remaining nine wells are sampled semiannually (typically second and fourth quarters) for VOCs.

Due to low water levels in many wells at the Washrack Site, sampling has been performed using passive diffusion bags (PDBs) since 2016 (ERRG, 2016). Sampling has not been able to be performed for non-VOC analyses since 2014.

3.2 Annual Inspection

All 11 groundwater monitoring wells were inspected to determine if wells were functional and if any maintenance was required. Wells were inspected on December 16, 2021. The maintenance inspection checklist can be found in the Daily Field Report in Appendix A.

Obstructions were noted in two monitoring wells, WR-MW-01 and WR-MW-02, approximately 15 to 20 ft from the bottom of the well (measured total depth) and PDBs were unable to reach groundwater.

All wells require maintenance to prevent soil and water infiltration into the well box (new gaskets, rethreading, and new bolts). Several wells were rethreaded and had new bolts installed during the sampling event (Appendix A; December 16, 2021). Ongoing maintenance of the monitoring wells is needed to maintain functionality.

3.3 Water Level Measurements

On December 2, 2021, and December 16, 2021, (dates the PDBs were set in the well and retrieved for sampling) depth to water measurements were collected at all 11 monitoring wells (Table 1). Measurements were taken at each well casing and recorded to an accuracy of ± 0.01 ft using a water level meter (Appendix A).

Water level measurements and corresponding groundwater elevations are presented in Section 4.1.

3.4 Passive Diffusion Bag Sampling

On December 2, 2021, new PBDs—pre-filled with laboratory-provided deionized water—were set in ten wells (Table 2) for sampling on December 16, 2021.

PDBs were affixed to split-ring hanging stations on 3/16-inch polypropylene rope using zip-ties. The rope was secured to the well cap on one end and a stainless-steel weight on the downhole side. PDBs were left in the wells for two weeks, exceeding the minimum equilibration time for site COCs before sample collection (USGS, 2001).

On December 16, 2021, PDBs were retrieved, and VOC samples were collected by directly discharging groundwater into laboratory-provided sample containers. Obstructions in wells WR-MW-01 and WR-MW-02 prevented the correct installation and sampling of PDBs. New PDBs pre-filled with laboratory-provided deionized water were set and submerged in eight monitoring wells for sampling in 2Q22.

3.5 Laboratory Analysis

Following the chain of custody procedures, the sample containers were delivered by overnight carrier to PACE Laboratories located at 4100 Atlas Ct, Bakersfield, California, 93308. PACE is accredited by the Department of Defense (DoD) Environmental Laboratory Accreditation Program (DoD Certificate Number L20-280-R1) and California Environmental Laboratory Accreditation Program (California Certificate Number 1186). Laboratory data reports are included in Attachment 1. VOC analysis was performed by method EPA 8260C.

3.6 Equipment Decontamination

Non-dedicated and non-disposable sampling equipment—including water level meters—were decontaminated before their use and between each sample location. Each piece of equipment was decontaminated with Liquinox® detergent mixed with distilled water, and deionized rinse water was used to remove the detergent.

3.7 Waste Management

Solid trash and debris (e.g., spent gloves, paper towels, and plastic bags) generated during sampling activities were collected and disposed of offsite. Any liquid investigation derived waste (< 1 liter during the second semiannual event)—consisting of purge and decontamination water—was collected and discharged (in accordance with the USP discharge permit) into a maintenance hole located approximately 50 ft southwest of the Washrack Site that flows directly into the USP wastewater treatment plant.

3.8 Quality Control

The U.S Army Corps of Engineers (USACE) three phases of construction quality control (QC)—preparatory, initial, and follow-up—were implemented for the fieldwork. A preparatory phase meeting to confirm understanding of the scope of work was held between Ahtna, its subcontractors, and USACE representatives before beginning fieldwork. Initial phase inspections were conducted on the first day of fieldwork for each well redevelopment and groundwater monitoring task. Follow-up phase inspections occurred each day until the completion of work. The Field QC Manager documented the elements reviewed on the appropriate inspection forms (Appendix A).

QC samples were collected per the QAPP/WP (Ahtna, 2021b). QC samples included one field duplicate, one field blank, and one trip blank. Trip blanks were sent in each cooler with containers for VOC analysis. A matrix spike/matrix spike duplicate (MS/MSD) was planned and PDBs set at WR-MW-01, but a well obstruction prevented the collection of an MS/MSD.

3.9 Data Validation

Validation procedures were performed according to the requirements specified in Worksheet #36 of the QAPP/WP, including Stage 2B validation on 100% of the laboratory-generated data and Stage 4 validation on 10% of the data. No results were rejected, and all data is considered valid and acceptable for its intended use. One field blank had a detection of toluene. The associated sample results were qualified as non-detected. Data validation reports are included in Attachment 2.

4.0 Field Variances

Obstructions in monitoring wells WR-MW-01 and WR-MW-02 prevented the correct installation and sampling of PDBs. An MS/MSD sample was not collected during the event due to insufficient water volume in a single PDB. An MS/MSD was planned and three PDBs set at WR-MW-01, but the well obstruction prevented the collection of an MS/MSD sample.

5.0 Summary of Results

This section summarizes the groundwater sampling results conducted at the Washrack Site.

Supporting data includes:

Table 1— Groundwater elevations

Table 2 — List of the wells sampled, and analyses performed

Table 3 — Laboratory results for VOCs

Table 4 — Summary of detected VOCs

Figure 3 —Potentiometric Surface Map and COC Results

Appendix B — Historical data

Appendix C — Time-series plots

5.1 Groundwater Gradient and Flow Direction

In Aquifer Zone A, groundwater was encountered at elevations ranging from 40.00 to 40.59 ft amsl. Aquifer Zone B, WR-MW-01B, had a groundwater elevation of 36.99 ft amsl. The water table at the Site is relatively flat. There is a slight groundwater flow direction to the northwest. Groundwater gradients range from 0.0003 to 0.0006 ft/ft to the west and 0.0006 to 0.0022 ft/ft to the north. Historically, groundwater flow has been to the northwest. Groundwater elevation data is presented in Table 1.

Groundwater elevations increased in 7 of 11 wells from November 2020 to December 2021.

5.2 VOC Analytical Results

The analytical results for the second semiannual event are summarized below:

- All site COCs were detected in at least one sample during the second semiannual event.
- One or more COCs were detected at each well sampled except for WR-MW-01B, which is screened at a greater depth than the rest of the network.
- PCE and TCE did not exceed MCLs in any wells sampled.
    - PCE was detected at six wells with a maximum concentration of 2.4 µg/L (WR-MW-11A).
    - TCE was detected at five wells with a maximum concentration of 0.98 µg/L (WR-MW-04A).
- cis-1,2-DCE was detected at concentrations above the State MCL (6 µg/L) at two wells: WR-MW-05A (12 µg/L) and WR-MW-12A (7.0 µg/L).
- Vinyl chloride (a degradation product of PCE and TCE) was detected at a concentration that exceeded the State MCL (0.5 µg/L) at WR-MW-05A (0.58 µg/L).
- No Federal MCLs were exceeded during the semiannual event.

6.0 Conclusions and Recommendations

Detailed conclusions and recommendations will be provided in a forthcoming *Groundwater Sampling Optimization Report.* The following general conclusions are made regarding the site status:

1 COC concentrations at the Site continue to exceed the MCLs. Eight of the ten wells in the current sampling network have had a COC concentration exceeding an MCL at least once within the past two years (2020-2021). This includes perimeter wells to the west, north, and east of the network.

2 The ERD program successfully reduced COC concentrations. However, not all wells show decreasing trends during recent monitoring events.

3 Data from WR-MW-01B does not show contamination of the B-Zone.

4 PCE dechlorination generally occurs according to the sequence of PCE degrading to TCE, TCE degrading to DCE, and DCE degrading to vinyl chloride. During active dechlorination, a distribution of concentrations would be expected across all four stages. However, PCE and DCE concentrations are relatively high compared to TCE and vinyl chloride concentrations. Therefore, dechlorination does not appear to be progressing.

5 Water levels decreased sharply from 2012 to 2016; however, recent data shows steady increases.

6 Seasonal variations in groundwater levels and COC concentrations are minimal.

It is recommended that groundwater monitoring be continued semiannually and that the path toward site closure be determined in consultation with the Central Coast Regional Water Quality Control Board.

7.0 References

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Tables

Table 1. Groundwater Elevation Data and Well Details

Location	Coordinates[1]		Aquifer	Well Dia. (in.)	Top of Casing Elevation (ft amsl)	Top Screen Interval (ft toc)	Bottom Screen Interval (ft btoc)	Date Measured	Total Depth (ft)	Depth to Water (ft btoc)	GW Elevation (ft amsl)		
	Northing	Easting									Dec 2021	Nov 2020	Change
WR-MW-01	2079737	5808543	A	2	122.05	71.50	86.5	12/16/21	87.46	81.86	40.19	40.14	0.05
WR-MW-01B	2079736	5808531	B	2	122.15	130.0	140.0	12/16/21	140.26	85.16	36.99	37.31	-0.32
WR-MW-02	2079633	5808536	A	2	121.73	72.5	87.5	12/16/21	87.99	81.73	40.00	40.38	-0.38
WR-MW-04A	2079776	5808301	A	2	121.55	75.0	85.0	12/16/21	84.70	81.55	40.00	39.87	0.13
WR-MW-05A	2079733	5808469	A	2	121.85	75.0	85.0	12/16/21	85.11	81.76	40.09	40.00	0.09
WR-MW-07A	2079787	5808621	A	2	119.33	75.0	85.0	12/16/21	83.41	79.10	40.23	40.20	0.03
WR-MW-08A	2079610	5808499	A	2	121.30	75.0	85.0	12/16/21	84.87	80.71	40.59	40.65	-0.06
WR-MW-09A	2079767	5808513	A	2	122.17	75.0	85.0	12/16/21	84.89	82.00	40.17	40.13	0.04
WR-MW-10A	2079770	5808360	A	2	121.95	75.0	85.0	12/16/21	84.48	81.92	40.03	39.91	0.12
WR-MW-11A	2079698	5808347	A	2	121.99	75.0	85.0	12/16/21	84.58	81.91	40.08	39.94	0.14
WR-MW-12A	2079739	5808384	A	2	121.80	75.0	85.0	12/16/21	84.86	81.72	40.08	40.12	-0.04

Notes:
[1] Well Coordinates are estimated. NAD 1983 California State Plane Zone 5
ft = feet
amsl = above mean sea level
btoc = below top of casing
in - inch

Table 2. Sample Schedule

Location ID	Aquifer	Depth to Water	Analysis	Test Method	Sampling Frequency	Sampling Method	Sample Type	Sample Date
WR-MW-01	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS/MS/MSD	PNC[1]
WR-MW-01B	B	✓	VOCs	EPA 8260C	Annual	PDB	NS	12/16/21
WR-MW-02	A	✓	VOCs	EPA 8260C	Semiannual	PDB	—	PNC[1]
WR-MW-04A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21
WR-MW-05A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21
WR-MW-07A	A	✓	—	—	—	—	—	—
WR-MW-08A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS/FD	12/16/21
WR-MW-09A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21
WR-MW-10A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21
WR-MW-11A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21
WR-MW-12A	A	✓	VOCs	EPA 8260C	Semiannual	PDB	NS	12/16/21

Notes:
[1] Obstructions in wells WR-MW-01 and WR-MW 02 prevented the correct installation and sampling PDBs.
EPA = Environmental Protection Agency
FD = Field duplicate
ft = feet
MS/MSD = Matrix spike/MS duplicate
NS = Normal sample
PDB = Passive Diffusion Bag
PNC= Planned not sampled
VOC = volatile organic compounds

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	—	200	—	—	—	6	—
				LOMPOC FED MCL	—	200	—	—	—	7	—
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**							
WR-MW-01	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-02	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.20 U	0.16 U	0.40 U	0.16 U	0.16 U	0.20 U	0.16 UJ

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	1,2-Dichloroethane	1,2-Dichloropropane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Acetone	Benzene	Bromobenzene
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	—	—	—	—	—	1	—
				LOMPOC FED MCL	—	—	—	—	—	5	—
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**							
WR-MW-01	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 J	0.30 U
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.13 J	0.30 U
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.27 J	0.30 U
WR-MW-02	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.080 J	0.30 U
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.20 U	0.30 U	0.16 U	0.16 U	8 U	0.16 U	0.30 U

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	80	80	—	—	—	—	80
				LOMPOC FED MCL	80	80	—	—	—	—	80
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**							
WR-MW-01	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-02	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.30 U	0.30 U	0.40 UJ	0.20 U	0.16 U	0.16 U	0.16 U

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloro-methane	Dibromomethane	Ethylbenzene	Freon 11 (Trichlorofluoro-methane)
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	—	6	—	80	—	—	—
				LOMPOC FED MCL	—	70	—	80	—	—	—
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**							
WR-MW-01	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-02	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.16 U	0.83	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.16 U	**12**	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.16 U	4.1	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.16 U	3.4	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.16 U	0.16 U	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.16 U	**7.0**	0.16 U	0.16 U	0.40 U	0.16 U	0.16 U

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	Freon 113	Freon 12 (Dichlorodifluoro-methane)	m,p-Xylenes	Methylene Chloride	o-Xylene	Tetrachloroethene	Toluene
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	—	—	—	—	—	5	150
				LOMPOC FED MCL	—	—	—	—	—	5	1000
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**							
WR-MW-01	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.30 U	0.16 U
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.30 U	0.50 U
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.30 U	0.50 U
WR-MW-02	—	—	—	PNC	—	—	—	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	2.1	0.16 U
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.30 U	0.16 U
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.12 J	0.16 U
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.14 J	0.16 U
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.12 J	0.16 U
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	1.6	0.16 U
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	2.4	0.16 U
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.16 U	0.16 U	0.45 U	0.50 U	0.40 U	0.34 J	0.16 U

Table 3. Groundwater Monitoring Results— All Volatile Organic Compounds

				Analyte	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
				Analytic Method	SW8260C	SW8260C	SW8260C	SW8260C
				Units	µg/L	µg/L	µg/L	µg/L
				LOMPOC CA MCL	10	—	5	0.5
				LOMPOC FED MCL	100	—	5	2
Location	**Sample ID**	**Sampled**	**PDB Depth (ft)**	**Type**				
WR-MW-01	—	—	—	PNC	—	—	—	—
WR-MW-01B	WRMW01B1-121621-N	12/16/21	130.30	NS	0.16 U	0.16 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B2-121621-N	12/16/21	134.30	NS	0.16 U	0.16 U	0.16 U	0.16 U
WR-MW-01B	WRMW01B3-121621-N	12/16/21	138.30	NS	0.16 U	0.16 U	0.16 U	0.16 U
WR-MW-02	—	—	—	PNC	—	—	—	—
WR-MW-04A	WRMW04A-121621-N	12/16/21	82.84	NS	0.16 U	0.16 U	0.98	0.16 U
WR-MW-05A	WRMW05A-121621-N	12/16/21	83.16	NS	0.11 J	0.16 U	0.16 U	**0.58**
WR-MW-08A	WRMW08A-121621-D	12/16/21	83.05	FD	0.16 U	0.16 U	0.16 U	0.16 U
WR-MW-08A	WRMW08A-121621-N	12/16/21	83.05	NS	0.16 U	0.16 U	0.16 U	0.16 U
WR-MW-09A	WRMW09A-121621-N	12/16/21	82.97	NS	0.16 U	0.16 U	0.17 J	0.16 U
WR-MW-10A	WRMW10A-121621-N	12/16/21	82.30	NS	0.16 U	0.16 U	0.96	0.16 U
WR-MW-11A	WRMW11A-121621-N	12/16/21	82.78	NS	0.16 U	0.16 U	0.10 J	0.16 U
WR-MW-12A	WRMW12A-121621-N	12/16/21	82.76	NS	0.16 U	0.16 U	0.42 J	0.16 U

Notes:

Bold Underline*:* exceeds State and Federal MCL

Bold: exceeds the State MCL

Underlined: Exceeds the Federal MCL

FD: Field duplicate

ft: feet

J: Estimated value; (+) high bias (-) low bias

MCL: Maximum Contaminant Level

NS: Normal sample

PDB: passive diffusion bag

PNC: Planned, not sampled

SL: Screening Level

U: Not detected at or above limit of detection

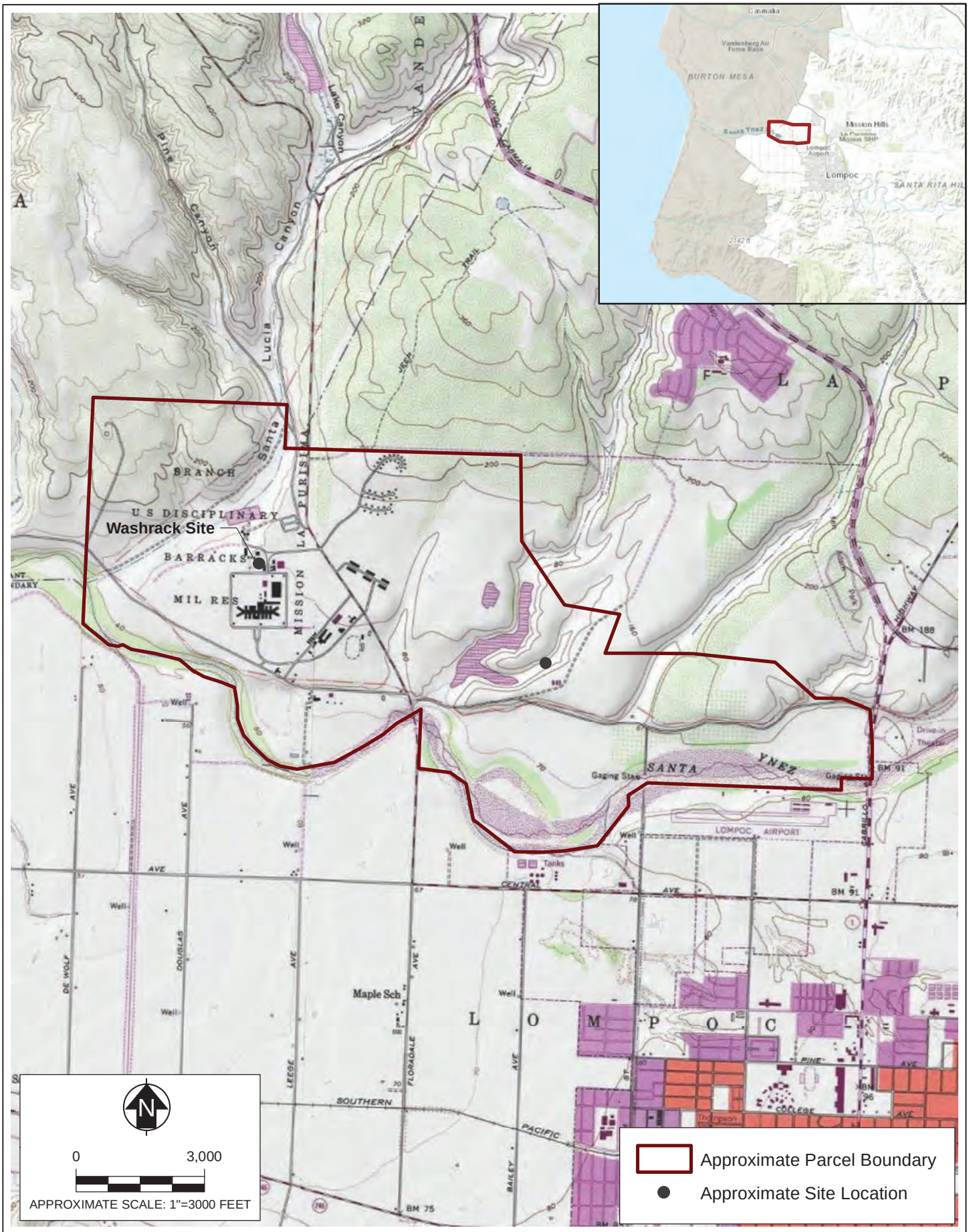
µg/L: micrograms per liter

Table 4. Groundwater Monitoring Results—Contaminants of Concern

		Analyte	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride
		Analytic Method	SW8260B	SW8260B	SW8260B	SW8260B
		Units	µg/L	µg/L	µg/L	µg/L
		State MCL	6	5	5	0.5
		Federal MCL	70	5	5	2
Well ID	**Sampled**	**Type**				
WR-MW-01B	12/16/21	—	0.16 U	0.30 U	0.16 U	0.16 U
WR-MW-01B	12/16/21	NS	0.16 U	0.30 U	0.16 U	0.16 U
WR-MW-01B	12/16/21	—	0.16 U	0.30 U	0.16 U	0.16 U
WR-MW-04A	12/16/21	NS	0.83	2.1	0.98	0.16 U
WR-MW-05A	12/16/21	NS	**12**	0.30 U	0.16 U	**0.58**
WR-MW-08A	12/16/21	FD	0.16 U	0.12 J	0.16 U	0.16 U
WR-MW-08A	12/16/21	NS	0.16 U	0.14 J	0.16 U	0.16 U
WR-MW-09A	12/16/21	NS	4.1	0.12 J	0.17 J	0.16 U
WR-MW-10A	12/16/21	NS	3.4	1.6	0.96	0.16 U
WR-MW-11A	12/16/21	NS	0.16 U	2.4	0.10 J	0.16 U
WR-MW-12A	12/16/21	NS	**7.0**	0.34 J	0.42 J	0.16 U

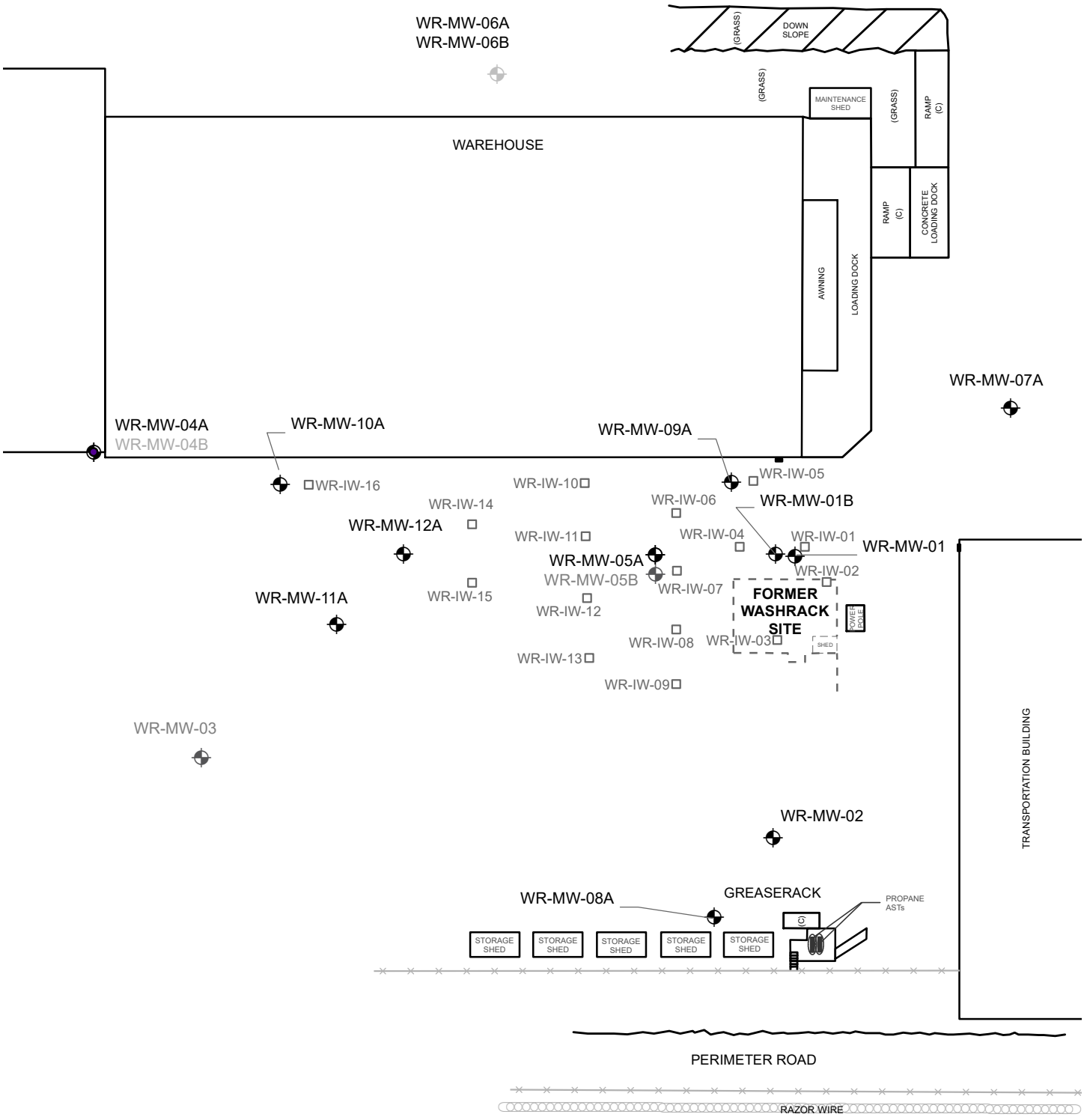
Notes:
Bold: exceeds State MCL
Bold Underline*:* exceeds State and Federal MCL
FD: Field Duplicate
J: Estimated value; (+) high bias (-) low bias
MCL: Maximum Contaminant Level
NS: Normal sample
SL: Screening Level
U: Not detected at or above limit of detection
µg/L: micrograms per liter

Figures



Ahtna	**2021 Second Semiannual Groundwater Monitoring Report- Washrack Site** Environmental Long-Term Monitoring and Inspection Former USDB, Lompoc, California	**Washrack Site Location Map**	1

Source: ERRG, 2021. Washrack Site Second Semiannual 2020 Groundwater Monitoring Report, Former United States Disciplinary Barracks, Lompoc, California



LEGEND:

- Former Injection Well (Destroyed)
- Monitoring Well
- Former Monitoring Well
- Fence

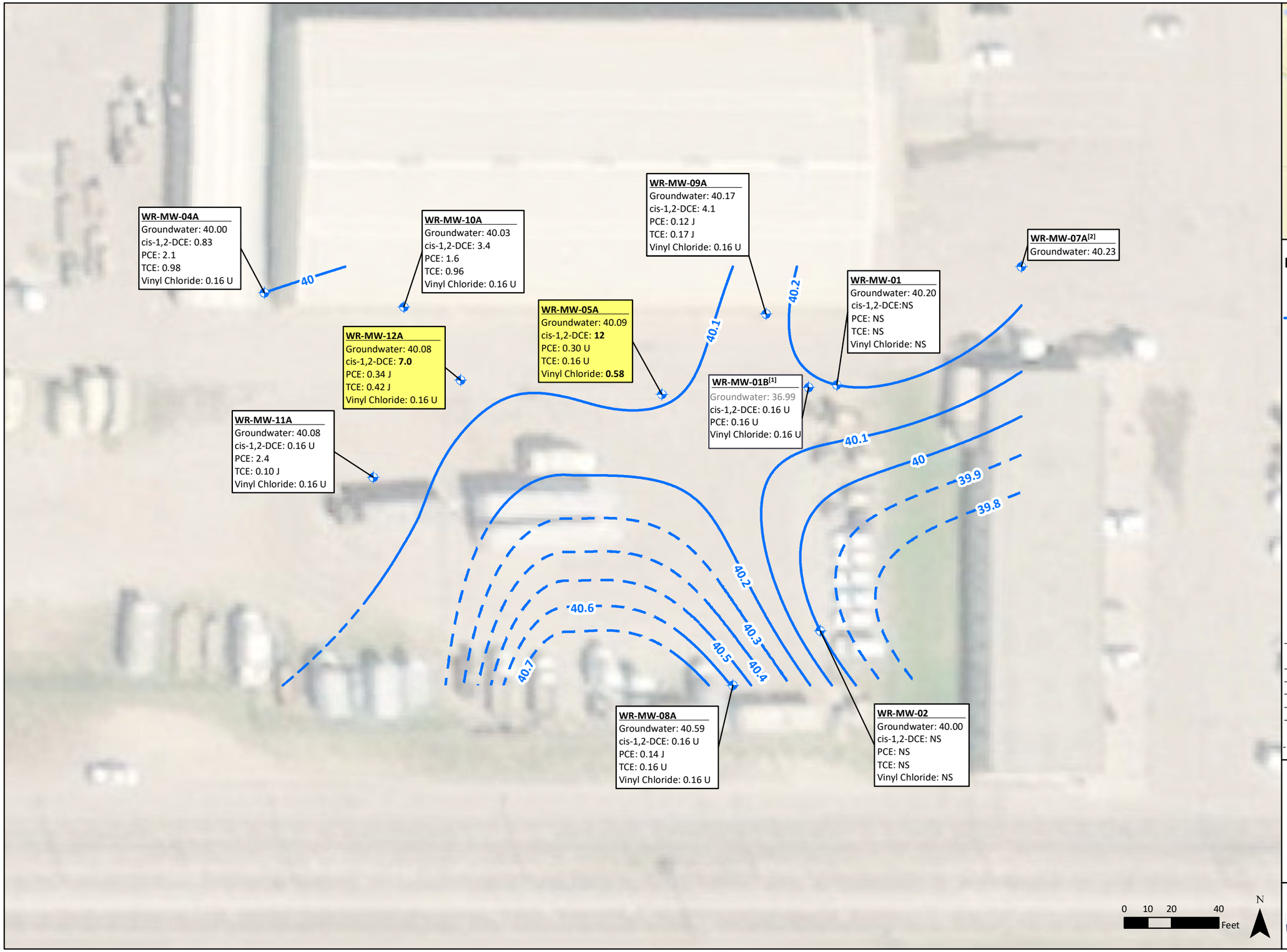
N

0 50

1" = 50'

Ahtna	**2021 Second Semiannual Groundwater Monitoring Report- Washrack Site** Environmental Long-Term Monitoring and Inspection Former USDB, Lompoc, California	**Washrack Monitoring Well Locations**	2

Source: ERRG, 2021. *Washrack Site Second Semiannual 2020 Groundwater Monitoring Report, Former United States Disciplinary Barracks, Lompoc, California.* January.



Legend

- Monitoring Well
- Groundwater Potentiometric Contour (dashed where estimated)

Notes:

[1] Well WR-MR-01B is in Aquifer B and not included in the groundwater contours.
[2] Well WR-MR-07A is not sampled and used for water level measurements only.
- Groundwater measured in feet above mean sea level
- Contaminants of concern that exceed State - Maximum Contaminant Levels (MCL) are highlighted in yellow and bold text
- MCL for cis-1,2-Dichloroethene (cis-1,2-DCE) is 6 micrograms per liter (µg/L)
- MCL for Tetrachloroethene (PCE) is 5 µg/L
- MCL for Trichloroethene (TCE) is 5 µg/L
- MCL for Vinyl Chloride is 0.5 µg/L
- NS: Not Sampled due to well obstruction
- U: analyte not detected, but suspected at the reported value
- J: analyte present, but reported value is estimated

Aquifer Zone A Groundwater Potentiometric Surface Map and Chemicals of Concern Results

2021 Second Semiannual Groundwater Monitoring Report- Washrack Site
Former USDB, Lompoc, CA

Ahtna

Figure 3

Appendices

Appendix A. Daily Field Reports

Ahtna

DAILY REPORT

Former U.S. Disciplinary Barracks- Semiannual Groundwater Monitoring

GENERAL			
1) USACE Contract No.:	W912PL-18-D-0044	**2) Date:** 12/02/2021	
3) Program Manager	Sommer Carter	**4) Report No.:** 1/1	
5) Project Leader:	Jessica Feduck	**6) SSHO:** Jessica Feduck	
7) QC Manager:	Olivia Chu	**8) Weather:** 45-65; AM: fog PM: sunny	

SUMMARY

9) Work Performed:
Attended a site walk with the Bureau of Prisons (BOP) Facilities Manager. Completed gauging at 11 groundwater monitoring wells and set Passive Diffusion Bags (PDBs) at ten groundwater monitoring wells for the semiannual groundwater sampling event.

10) Project Schedule/Issues: None

11) Action Items: None

CONTRACTOR PERSONNEL

12) Prime Contractor and Subcontractor Onsite:

Name	Company	Position/Title	Hours
Brad Clark	Ahtna	Operations Manager	4
Sommer Carter	Ahtna	Program Manager	4
Jessica Feduck	Ahtna	Project Manager/SSHO	8
Olivia Chu	Ahtna	Engineer	8

DoD PERSONNEL

13) DoD Personnel Onsite: None

Name	Company	Position/Title	Arrival/Departed

VISITING PERSONNEL

14) Visitors Onsite:

Name	Company	Position/Title	Arrival/Departed
Scott Armstrong	CALIBRE	Senior Analyst	0800/1500

DETAIL

15) Equipment Status:	ACTIVE	MOB'D	DE-MOB'D
Field Support Vehicle	X	X	X

16) Work Planned for Following Day:

1. PDBs will be sampled for laboratory analysis on 12/16/2021.

17) Safety:

1. Traffic cones were used to create a safety area when gauging wells located in traffic areas.

18) Quality Control:

1. All wells were gauged (depth to water and total depth) as described in SOP-07 in the project QAPP/Work Plan.
2. PDBs were installed within the screened interval according to SOP-07 in the project QAPP/Work Plan.

19) Other: None.

20) Attachments:

1. Daily Safety Tailgate Form
2. Daily Field Logs
3. 3-Phase Quality Control Inspection Forms

21) Report Submitted by: Jessica Feduck

Description: Setting Field Duplicate passive diffusion bags (PDB) at WR-MW-02, facing east.

Description: Securing rope with PDBs to well plus at WR-MW-04A, facing east.

AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

GENERAL DATA

Site USDB Lompoc — **Date:** 12/02/2021

AHTNA Site CDSO/DR: — Site Location Lompoc, CA

AHTNA SSHO J Fedrick

DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion):

Slips, trips, falls, heat, fog, inmates

Other items to address as appropriate (**check those discussed**):

- ☑ Scope of day's work
- ☑ Site SH&E Plan / Revisions
- ☑ **AHA's / PTSP's** completed/reviewed?
- ☑ Emergency SOPs (i e rally pt., tele #s)
- ☑ Communications Check
- ☑ PPE Requirements
- ☐ OSHA's Focus Four
  - ☐ Fall Hazards
  - ☐ Electrical Hazards
  - ☐ Struck-by Hazards
  - ☐ Caught in / between Hazards
- ☐ Other Primary Hazards
- ☐ Recent near miss / injuries / lessons
- ☐ Lifting Safety / Materials Handling
- ☐ BBS Hazard Triggers'
- ☐ BBS Trigger Controls"
- ☐ Other (heat, noise, trench, confine sp)

MEETING ATTENDEES: (place * next to subcontractor safety representatives)

NAME / COMPANY	NAME / COMPANY
Jessica Fedrick / AHTNA	
Brad Halbert / BOP	
Scott Armstrong / Army Calibre	
Brad Clark / AHTNA	
S. Carter / AHTNA	
Olivia Chu / AHTNA	

DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)

Y	N	NA	Inspection Item
☑	☐	☐	Postings/Plans (APP) readily avail.
☑	☐	☐	Designated Parking / Traffic Control
☐	☐	☑	Subcontractor Safety Rep Involved
☐	☐	☑	Subcontractor / Task AHA's
☐	☐	☑	Subcontractor Equip. Inspections
☑	☐	☐	Emergency Equip. (PFE's, FA Kits)
☐	☐	☑	Eye Wash / Shower
☑	☐	☐	Communications Check
☐	☐	☐	Sanitation (Toilets, Hand Wash)
☐	☐	☑	Water & Shade, Non-Pot Identified
☐	☐	☑	Utilities Identified / Controlled
☐	☐	☑	Material Storage Proper
☐	☐	☑	Lay Down Areas Orderly
☐	☐	☑	Waste Containers
☐	☐	☑	Spill Control (Pads, Snakes, Drums)

Y	N	NA	Inspection Item
☐	☐	☑	Signs (No Smoking, Site Control)
☑	☐	☐	PPE(head/eye/foot/hand/ear/body)
☑	☐	☐	Hi-Vis, PFD's, Ring Buoys, Etc
☐	☐	☑	Excav /Trench/Spoils Protection
☐	☐	☑	Confined Spaces Management
☐	☐	☑	Physical Barriers / Covers
☐	☐	☑	Fall Hazards (Protected)
☐	☐	☑	Ladders
☑	☐	☐	Power & Portable Hand Tools
☑	☐	☐	Company Field Equipment
☑	☐	☐	Alarms / Seatbelts
☐	☐	☑	GFCI's, Whip-Checks, Slings
☐	☐	☑	Exposed Rebar Protected
☐	☐	☐	Safety / Health Behaviors:
☑	☐	☐	Competent / Qualified Persons

Y	N	NA	Inspection Item Other (List)
☐	☐	☐	
☐	☐	☐	
☐	☐	☐	
☐	☐	☐	
☐	☐	☐	
☐	☐	☐	
☐	☐	☐	

ISSUES TO FOLLOW-UP
(Immediately Correct Deficiencies if able)

Immediately correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements were inspected and discussed

SSHO/CDSO/DR (signature): — **Date:** 12/02/2021

Ahtna

USDB - Lompoc, CA 'Jessica Feduck' GW Monitoring-Semiannual 12/02/2021

crew: Ahtna: Jessica Feduck, Olivia Chu, Sommer Carter, Brad Clark
BRAC: Scott Armstrong

weather: am: FOG, 49°F pm sun 65°F

8⁻/ All crew on site.
Meet Facilities Personnel, Brad Halbeisen
Safety Tailgate meeting: inmates, rally points, traffic, slips, trips, falls
8³⁰/ Site tour of washrack, Former Army Landfill + wood Dump site.
9¹⁵/ mob. to washrack site. B. Halbeisen offsite.
Began pulling old sampling equipment (rope, weights, PDBs) from wells. replaced rope, weights and conducted groundwater gauging (DTW + TD). Replaced well Plug at MW-10A. Decon between wells.
Complete: WRMW-04A, WR-MW-10A, WR-MW-11A, WR-MW12A, WR-MW-05A
12¹⁵/ Lunch. S. Carter, B. Clark offsite
13¹⁵/ Returned to washrack site to continue to replace sampling equipment + gauge wells (DTW + TD) + set PDBs
completed monitoring wells: WR-MW-08A, WR-MW-02, WR-MW-09A WR-MW01B, WR-MW01A + collected DTW + TD @ WR-MW-07A.
1540: completed gauging wells + setting PDBs @ all wells.
decontaminated field equipment prior to leaving site
1500: S. Armstrong offsite.
16⁻: all crews offsite

QC 12-02-21

1/1

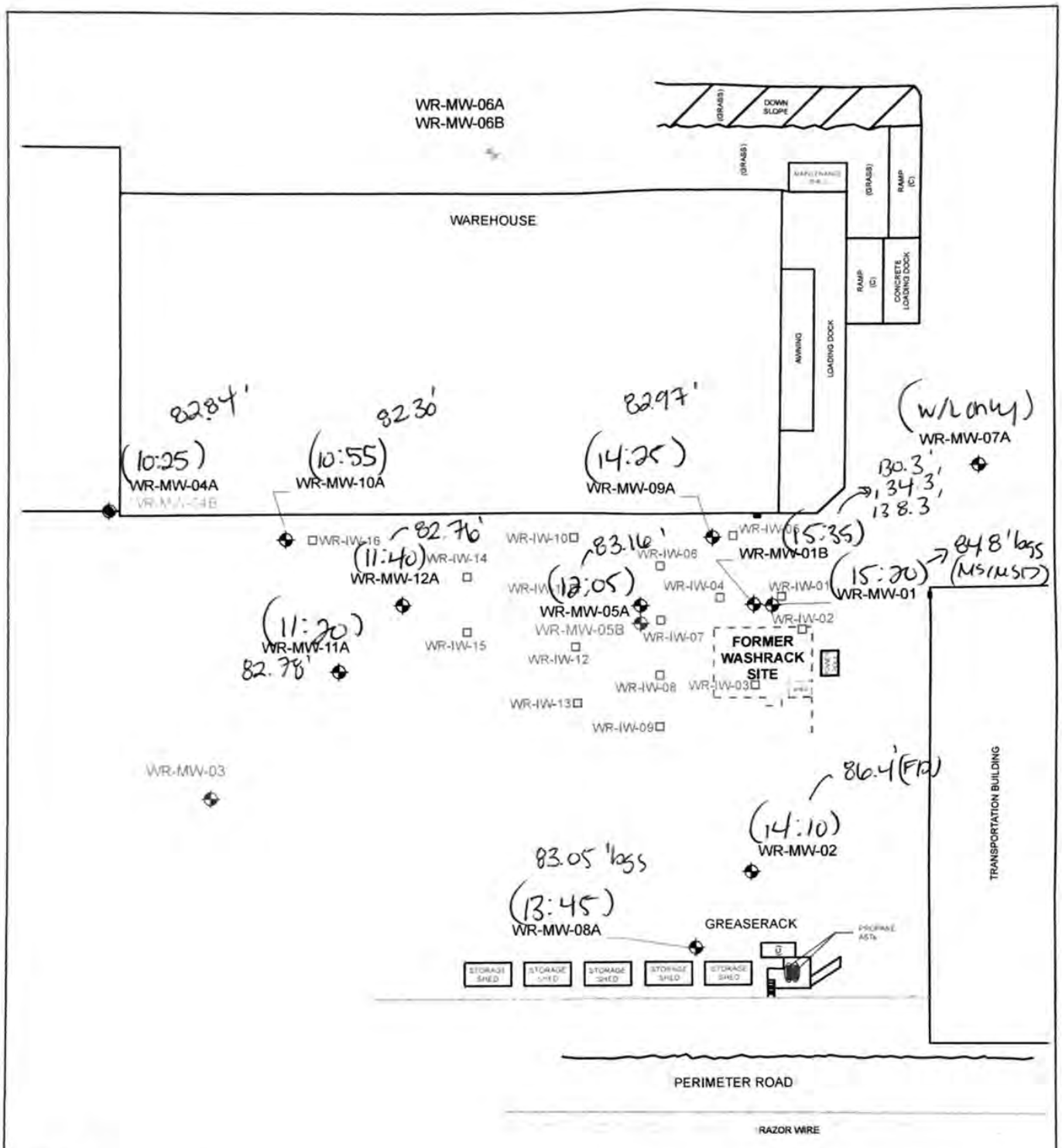
Scale: 1 square = _____

Water Level Measurements

Job #: 21044.006.01.00 Date: 12/02/2021 Site: USDB Lompoc

Well ID	Date	Time	Dia	Dec 2021 DTW	Nov 2020 DTW	Dec 2021 Total Depth (Measured)	Nov 2020 Total Depth (Measured)	Ref Point (TOC)
WR-MW-01	12/02/2021	15:10	2	81.86	81.91	87.46	87.49	122.1
WR-MW-01B	12/02/2021	15:25	2	85.55	84.84	140.26	139.73	122.2
WR-MW-02	12/02/2021	13:50	2	81.36	81.35	87.99	88.02	121.7
WR-MW-04A	12/02/2021	10:11	2	81.78	81.68	84.70	84.59	121.6
WR-MW-05A	12/02/2021	11:55	2	81.82	81.85	85.11	84.91	121.9
WR-MW-07A	12/02/2021	14:55	2	79.19	79.13	83.41	83.32	119.3
WR-MW-08A	12/02/2021	13:35	2	80.59	80.65	84.87	84.72	121.3
WR-MW-09A	12/02/2021	14:25	2	82.03	82.04	84.89	84.55	122.2
WR-MW-10A	12/02/2021	10:47	2	82.15	82.04	84.48	84.05	122
WR-MW-11A	12/02/2021	11:06	2	82.02	82.05	84.58	84.61	122
WR-MW-12A	12/02/2021	11:30	2	82.82	81.68	84.86	84.51	121.8

Ahtna



LEGEND:

- Former Injection Well (Abandoned)
- Monitoring Well
- Former Monitoring Well
- Fence

(#:#): Time PDB set.
': depth of PDB

N

0 50

1" = 50'

Ahtna	**Quality Assurance Project Plan/ Work Plan** Environmental Long-Term Monitoring and Inspection Former USDB, Lompoc, California	**Washrack Monitoring Well Locations**	5

Source: ERRG, 2021. *Washrack Site Second Semiannual 2020 Groundwater Monitoring Report, Former United States Disciplinary Barracks, Lompoc, California.* January.

Well Maintenance Inspection Form

Date: 12/02/2021 Field Technician: J. Feduck / D. Chu

Inspection Point	No Corrective Action	Well Cap Non-Functional	Lock- Non Functional	Lock Missing	Bolts Missing (#/ total #)	Tabs Stripped (#/ total #)	Tabs Broken (#/ total #)	Gasket- Non-Functional	Rim/Lid Broken	Apron/Bollard damaged	Other	Well Not Inspected	Notes (repairs made while on site)
WR-MW-01					0/2			✓					no gasket
WR-MW-01B		✓			0/2	2/2							new well plug.
WR-MW-02					1/2	2/2							3/4" bolt size
WR-MW-04A	✓												
WR-MW-05A						2/2							
WR-MW-06A													
WR-MW-07A					0/2	2/2							tubing from low flow still in place
WR-MW-08A					0/2	2/2							
WR-MW-09A					2/2								
WR-MW-10A		✓			0/2	2/2		✓					no weight removed · new well plug
WR-MW-11A				2/2	0/2	2/2							no weight removed
WR-MW-12A	✓												

INVESTIGATION, MONITORING, O&M PROJECTS
PREPARATORY PHASE INSPECTION COVER SHEET

Contract No.: W912PL-18-D-0044
Task No.: Task 2.2.1a/2.1.1a
Location/Project: Lompoc, CA/Former USDB

Date: 11/30/2021

A. Key Personnel Present:

	Name	Position	Company
1.	Hank Procter	Program Manager	BRAC
2.	Heather Elliott	BEC	Calibre
3.	Scott Armstrong	Senior Analyst	Calibre
4.	Kevin Yu	COR	USACE
5.	Bruce James	Project Manger	USACE
6.	Brad Clark	Operations Manger	Ahtna
7.	Sommer Carter	Program Manager	Ahtna
8.	Jessica Feduck	Project lead	Ahtna
9.	Olivia Chu	Engineer	Ahtna
10.	Natalie Serda	Project Manager	SC Labs / PACE

B. Submittals:

1. Review submittals and/or submittal register. Have all applicable submittals been approved?
Yes X No___

If No, what items have not been submitted?

a. _____
b. _____
c. _____

_____
USACE Representative Signature

Quality Control Manager Signature

INVESTIGATION, MONITORING, O&M PROJECTS: PREPARATORY PHASE INSPECTION CHECKLIST				
Assessment Activity	**Assessment Mechanism**	**Person(s) Responsible**	**Response Action**	**Completed by/Date**
Have planning documents been prepared in accordance with the statement of work, regulatory requirements, and contract requirements? Yes	Quality control review of document by Project Manager and QC reviewer.	Project Manager, QC Reviewer	Modify document as directed by reviewers	QL 11/30/21
Prior to project activities: Have planning documents been read by appropriate project personnel (including subcontractors) before work is conducted. Yes	Documentation (e.g., sign-off form, note to file, email acknowledgement) that document has been read and requirements are understood.	Subcontractors as required. Project Manager, Task Manager, and Project Chemist to check signoff and forms.	Direct project personnel to read relevant documents.	QL 11/30/21
Prior to project activities: Has required preliminary work (e.g., clearance activities, permits, site access) been completed in accordance with project plan. Yes	Comparison of information obtained from preliminary work completion assessment as specified in the project planning document(s).	Project Manager, Safety and Health Officer, QC Manger/Reviewer, Task Manager, Project Chemist, Field Staff	Delay startup if necessary preliminary work has not been completed. Implement corrective actions by directing appropriate personnel or subcontractors to complete necessary preliminary work.	QL 11/30/21
Prior to project activities: Are staff and subcontractors prepared to implement project activities according to planning documents? Yes	Review and discussion of planned activities prior to implementation.	Project Manager, Safety and Health Officer, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Delay startup if staff and subcontractors are not prepared to implement activities *in* accordance with specification.	QL 11/30/21
Prior to project activities: Is necessary field equipment available and in acceptable working order? Yes	Compare field equipment list with planned activities. Compare field equipment calibration documentation with project goals specified in the SAP.	Project Manager, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Delay startup if equipment is unavailable or not in proper working order. Implement corrective actions to include use of alternate equipment, or recalibration of available equipment.	QL 11/30/21

INVESTIGATION, MONITORING, O&M PROJECTS
INITIAL PHASE INSPECTION COVER SHEET

Date: 12/02/2021

Contract No.: W912PL-18-D-0044
Task No.: 2.2.1a
Location/Project: Lompoc, CA/ USDB

Description and Location of Work Inspected: Former USDB Lompoc Semi-Annual Groundwater Monitoring

A. Key Personnel Present:

	Name	Position	Company
1.	Scott Armstrong	Senior Analyst	caliber
2.	Brad Clark	operations Manager	Ahtna
3.	Emmer Carter	Program Manager	Ahtna
4.	Jessica Feduck	Project lead	Ahtna
5.	Olivia Chu	Engineer	Ahtna
6.			
7.			
8.			
9.			
10.			

Quality Control Manager Signature

INVESTIGATION, MONITORING, O&M PROJECTS: INITIAL PHASE INSPECTION CHECKLIST				
Assessment Activity	**Assessment Mechanism**	**Person(s) Responsible**	**Response Action**	**Completed by/Date**
Beginning of project activity: Is work being performed according to project plans? Yes	Conduct field and laboratory audits.	Project Manager, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if audits indicate significant deviation from project plan. Implement immediate or long- term corrective actions. Communicate deficiencies to USACE Project Manager.	QL 12/2/21
Early phase of project: Have necessary audits been performed? Yes	Review project phase and check to see if required audits have *been* satisfactorily completed.	Project Manager, Project Manager, Quality Control System Manager	Stop work if reviewer decides that absence of audit jeopardizes successful implementation of project plans. Immediately schedule necessary audits.	QL 12/2/21
Ongoing throughout project: Are daily quality control reports being prepared according to contract requirements? Yes	Review Content and delivery schedules of daily quality control reports.	Project Manager, Task Manager, Project Chemist, Project Staff	Correct deficiencies in reports or reporting delays.	QL 12/2/21
Ongoing throughout project: Do project plans adequately address any changes in project activities or goal? Yes	Compare data gathered to assess conformance to the project plan and conceptual site model.	Project Manager, Safety and Health Officer, Quality Control System Manager, Task Manager, Project Chemist, Field staff.	Stop work if assessor decides that project plan deficiencies are significant. Implement corrective action to include modification of project plans. Notify USACE Project Manager.	QL 12/2/21
Ongoing throughout project: Do project plans adequately address any changes in project activities or goals? Yes	Compare data gathered to assess conformance to the conceptual site model, data quality objectives, and project plan.	Project Manager, Quality Control System Manager, Task Manager, Project Chemist, data users and evaluators.	Propose additional data collection activities to fill data gaps. Notify USACE Project Manager. Revise or update planning documents as appropriate.	QL 12/2/21

INVESTIGATION, MONITORING, O&M PROJECTS
FOLLOW-UP PHASE INSPECTION COVER SHEET

Date: 12/02/2021

Contract No.: W912PL-18-D-0044
Task No.: 2.2.1a
Location/Project: Lompoc, CA/USDB

Project/Area of Inspection: Former USDB Lompoc semi-Annual groundwater Monitoring

A. Key Personnel Present:

	Name	Position	Company
1.	Scott Armstrong	Senior Analyst	Caliber
2.	Brad Clark	Operations Manager	Ahtna
3.	Sommer Carter	Program Manager	Ahtna
4.	Jessica Feduck	Project Lead	Ahtna
5.	Olivia Chu	Engineer	Ahtna
6.			
7.			
8.			
9.			
10.			

B. Definable Features of Work:

According to SOP 007, water levels and total depth measurements were collected, PDBs were installed within the screened interval, and downhole equipment was decontaminated between each well. (QAPP/Work Plan; Ahtna, 2021)

Status of Inspection:

Complete

Quality Control Manager

INVESTIGATION PROJECT FOLLOW-UP PHASE INSPECTION CHECKLIST				
Assessment Activity	**Assessment Mechanism**	**Person(s) Responsible**	**Response Action**	**Completed by/Date**
Reporting phase of project: Have data reports been prepared in accordance with project plans? Yes	Compare data reports to specifications detailed in planning documents.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	QL 12/2/21
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements? Yes	Review client and agency comments. Prepare responses to comments.	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators.	Revise documents and reports as appropriate.	QL 12/2/21
Have other definable features of work been completed in accordance to project requirements Yes	Compare definable features of work with project requirements.	Project Manager, Quality Control Manager	Complete definable feature of work as required.	QL 12/2/21

Ahtna

DAILY REPORT

Former U.S. Disciplinary Barracks- Semiannual Groundwater Monitoring

GENERAL			
1) USACE Contract No.:	W912PL-18-D-0044	**2) Date:** 12/16/2021	
3) Program Manager	Sommer Carter	**4) Report No.:** 1/1	
5) Project Leader:	Jessica Feduck	**6) SSHO:** Steve Korbay	
7) QC Manager:	Jessica Feduck	**8) Weather:** 44-52; Rain	

SUMMARY

9) Work Performed:

- Collected depth to water measurements at 11 out of 11 groundwater monitoring wells.
- Collected groundwater samples at 8 out of 11 groundwater monitoring wells (2 monitoring wells were obstructed).
- Reinstalled Passive Diffusion Bags (PDBs) at 7 out of 9 groundwater monitoring wells for the following semiannual groundwater sampling event (2 monitoring wells were obstructed).
- Performed well maintenance activities at 11 groundwater monitoring wells.

10) Project Schedule/Issues: None

11) Action Items: None

CONTRACTOR PERSONNEL

12) Prime Contractor and Subcontractor Onsite:

Name	Company	Position/Title	Hours
Jessica Feduck	Ahtna	Project Manager/QCM	6.5
Steve Korbay	Ahtna	SSHO	6.5

DoD PERSONNEL

13) DoD Personnel Onsite: None

Name	Company	Position/Title	Arrival/Departed

VISITING PERSONNEL

14) Visitors Onsite: None

Name	Company	Position/Title	Arrival/Departed

DETAIL

15) Equipment Status:	ACTIVE	MOB'D	DE-MOB'D
Field Support Vehicles x2	X	X	X

16) Work Planned for Following Day: None

17) Safety:

1. Proper PPE was worn at all times.

18) Quality Control:

1. All wells were gauged (depth to water) as described in SOP-08 in the project QAPP/Work Plan.
2. PDBs were sampled and installed within the screened interval according to SOP-07 in the project QAPP/Work Plan.

19) Other:

1. WR-MW-01 and WR-MW-02 were not sampled due to an obstruction in the well preventing the PDBs from reaching groundwater. Smaller diameter PDBs are planned to be used during the next sampling event for these wells.
2. MS/MSD sample was not collected during the semiannual event due to insufficient sample in single PDBs. MS/MSD bags were installed at WR-MW-01 on 12/02/2021; however, PDBs did not reach groundwater due to well obstruction noted above and no sample was collected.

20) Attachments:
1. Daily Safety Tailgate Form 2. Daily Field Logs 3. 3-Phase Quality Control Inspection Forms
21) Report Submitted by: Jessica Feduck

Photos:

Description: Removing PDB for sampling at WR-MW-12A, facing north.

Description: Samples collected from PDB at WR-MW-12A.

Description: Collecting a depth to water measurement using a sounder at WR-MW-05A, facing north

AHTNA DAILY SITE SAFETY TAILGATE / INSPECTION LOG

GENERAL DATA

Site: USPB Lompoc
Date: 12-16-21
AHTNA Site CDSO/DR:
Site Location: Lompoc
AHTNA SSHO: Steve Korbay

DOCUMENTATION OF WORKDAY SAFETY MEETING (List Topics of Discussion): Prison area guidelines/rules bio hazards traffic

Other items to address as appropriate (**check those discussed**):

- ☑ Scope of day's work
- ☑ Site SH&E Plan / Revisions
- ☑ **AHA's / PTSP's** completed/reviewed?
- ☑ Emergency SOPs (i.e. rally pt., tele #s)
- ☑ Communications Check
- ☐ PPE Requirements
- ☐ OSHA's Focus Four
  - ☐ Fall Hazards
  - ☐ Electrical Hazards
  - ☐ Struck-by Hazards
  - ☐ Caught in / between Hazards
- ☑ Other Primary Hazards
- ☐ Recent near miss / injuries / lessons
- ☑ Lifting Safety / Materials Handling
- ☐ BBS Hazard Triggers[I]
- ☐ BBS Trigger Controls[II]
- ☑ Other (heat, noise, trench, confine sp)

MEETING ATTENDEES: (place * next to subcontractor safety representatives)

NAME / COMPANY	NAME / COMPANY
Steve Korbay / Ahtna	
Jessica Feducia / Ahtna	

DAILY INSPECTIONS: (SSHO shall initial each completed applicable inspection item)

Y	N	NA	Inspection Item	Y	N	NA	Inspection Item	Y	N	NA	Inspection Item Other (List)
☑	☐	☐	Postings/Plans (APP) readily avail.	☑	☐	☐	Signs (No Smoking, Site Control)	☐	☐	☐	
☑	☐	☐	Designated Parking / Traffic Control	☑	☐	☐	PPE(head/eye/foot/hand/ear/body)	☐	☐	☐	
☐	☐	☑	Subcontractor Safety Rep Involved	☐	☐	☑	Hi-Vis, PFD's, Ring Buoys, Etc.	☐	☐	☐	
☐	☐	☑	Subcontractor / Task AHA's	☐	☐	☑	Excav./Trench/Spoils Protection	☐	☐	☐	
☐	☐	☑	Subcontractor Equip. Inspections	☐	☐	☑	Confined Spaces Management	☐	☐	☐	
☑	☐	☐	Emergency Equip. (PFE's, FA Kits)	☐	☐	☑	Physical Barriers / Covers	☐	☐	☐	
☐	☐	☑	Eye Wash / Shower	☐	☐	☑	Fall Hazards (Protected)	☐	☐	☐	
☑	☑	☐	Communications Check	☐	☐	☑	Ladders				**ISSUES TO FOLLOW-UP** (Immediately Correct Deficiencies if able)
☑	☐	☐	Sanitation (Toilets, Hand Wash)	☐	☐	☑	Power & Portable Hand Tools				
☐	☐	☑	Water & Shade, Non-Pot Identified	☑	☐	☐	Company Field Equipment				
☐	☐	☑	Utilities Identified / Controlled	☑	☐	☐	Alarms / Seatbelts				
☐	☐	☑	Material Storage Proper	☐	☐	☑	GFCI's, Whip-Checks, Slings				
☐	☐	☑	Lay Down Areas Orderly	☐	☐	☑	Exposed Rebar Protected				
☐	☐	☐	Waste Containers	☑	☐	☐	Safety / Health Behaviors:				
☐	☐	☑	Spill Control (Pads, Snakes, Drums)	☑	☐	☐	Competent / Qualified Persons				

Immediately correct any deficiencies. Note any uncorrected deficiencies on the APP Safety and Occupational Health Deficiency Tracking Log.

Comments/Field Notes:

I acknowledge that above elements were inspected and discussed

SSHO/CDSO/DR (signature): Steve Korbay
Date: 12-16-21

Ahtna

Version: February 2019

USDB-Lompoc, CA 'Jessica Feducis' Semiannual Groundwater Monitoring 12/16/21

Crew: Jessica Feduck & steve Kerbay / Ahtna
Weather: rain, 44F-52F

740 / on site
checked in with FCC Lompoc Facilities Manager
Safety Tailgate meeting: Prison guidelines/rules, bio hazards, weather, Traffic
8- / mobilized to washrack site for groundwater sample collection.
@ ~~WR-MW001F~~ WR-MW-04A: collected DTW measurement, pulled + sampled PDB, re-installed PDB for next event. Decon. sonded.
sample: WRMW04A-121621-N @ 814 AM.
well maintenance: rethreaded lid, added new bolts.
@WR-MW-10A: collected DTW, pulled PDB + collected sample, reinstalled PDB. sample: WRMW10A-121621-N @ 855 AM Decon sonder.
well maintenance: rethreaded box, 2 bolts needed.
@WR-MW-11A: collected DTW, pulled PDB + collected sample. reinstalled PDB. Sample: WRMW11A-121621-N @ 915 AM. Decon sonder.
maintenance: attempted to rethread well box. bolts needed.
@WR-MW-12A: collected DTW, pulled PDB + collected sample, reinstalled PDB. sample: WRMW12A-121621-N @ 930. Decon. sonder.
maintenance: bolts + rethreading needed.
@WR-MW-05A: collected DTW, pulled PDB + collected sample, reinstalled PDB. Sample: WRMW05A-121621-N @ 945.. Decon sonder.
maintenance: bolts + rethreading needed.
@WR-MW-02: collected DTW. Pulled PDBs → dry. PDBs did not reach grand water → no sample collected.
measured TD. Decon. sonder.
maintenance: 2 3/4" bolts required (not 1 5/16")
@WR-MW-08A: collected DTW, pulled PDB + collect sample + duplicated sample, re installed PDB. Decon sonder.
Sample: WRMW08A-121621-N @ 10:20
WRMW08A121621-0 @ 10:25
maintenance: rethreaded and added 2 bolts.
collected field blank sample. FB-121621-N @ 1010.
@WR-MW-01B: collected DTW, pulled PDBs + collected samples, ~~reinstalled~~ did not reinstall PDBs (annual only). Decon. Sonder
Samples: WRMW01B1-121621-N @ 1056
WRMW01B2-121621-N @ 1052
WRMW01B3-121621-N @ 1055

1/2

Scale: 1 square = _____

USDB Lompoc 'Jessica Feduck' Semiannual Groundwater Sampling 12/16/21

@ WR-MW-01B (continued): well maintenance: replaced one bolt.

@ WR-MW-01: collected DTW, pulled PDBs (MS/MSD location) → PDBs only did not reach groundwater → ~~so~~ NO sample collected. measured TD + DTW (again). added 2 bolts to well lid.

@ WR. MW-09A: collected DTW, pulled PDB + collected Sample, reinstalled PDB. sample: WRMW09A-121621-N @ 1115. Dean. sander. maintenance: rethreaded. bolts needed.

@ WR-MW-07A: collected DTW measurement. Not part of sampling program. Dean. sander.

1145 / Steve Karbay offsite to obtain additional rope for MW01 + MW02. QC samples, completed COC. ~~cool~~, packaged cooler for shipment.

1220 / S.K on site.

@ WR-MW-01: added additional rope to well. Obstruction in well → PDBs unable to reach ~~grand water~~ groundwater. Smaller diameter PDB required. (~1") for next event.

@ WR-MW-02: added additional rope to well. Obstruction in well. PDB unable to reach groundwater. Smalled diameter PDB required (~1"). for next event.

MS/MSD sample was not collected due to insufficient volume in single PDBs. MS/MSD sample was hung (3 bags) at WR-MW-01, however bags did not reach groundwater due to obstruction in well.

1400 / check out with facilities Manager.

1415 / All crews off site.

Jess Feduck 12-16-21

2/2

Scale: 1 square = _____

Rite in the Rain

Water Level Measurements

Job #: 21044.006.01.00 Date: 12/16/2021 Site: USDB Lompoc

Well ID	Date	Time	Dia	Dec 16 2021 DTW	Nov 2020 DTW	~~Dec 16 2021~~ Total Depth (Measured)	Nov 2020 Total Depth (Measured)	Ref Point (TOC)
WR-MW-01	12/16/2021	1105	2	81.85	81.91	87.46	87.49	122.1
WR-MW-01B	12/16/2021	1050	2	85.16	84.84	140.26	139.73	122.2
WR-MW-02	12/16/2021	1010	2	81.73	81.35	87.99	88.02	121.7
WR-MW-04A	12/16/2021	0807	2	81.55	81.68	84.70	84.59	121.6
WR-MW-05A	12/16/2021	0944	2	81.76	81.85	85.11	84.91	121.9
WR-MW-07A	12/16/2021	1140	2	79.10	79.13	83.41	83.32	119.3
WR-MW-08A	12/16/2021	1015	2	80.71	80.65	84.87	84.72	121.3
WR-MW-09A	12/16/2021	1130	2	82.00	82.04	84.89	84.55	122.2
WR-MW-10A	12/16/2021	0855	2	81.92	82.04	84.48	84.05	122
WR-MW-11A	12/16/2021	0911	2	81.91	82.05	84.58	84.61	122
WR-MW-12A	12/16/2021	0930	2	81.72	81.68	84.86	84.51	121.8

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID: WR-MW-01	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" 2" 3" 4" 6" Other:		**DTW:** **Total Depth:**
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius^2 X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time:	DTW at sample:
Sample ID: WRMW01-121621-N	Lab: BC Labs/PACE	Number of bottles:
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID: MS/MSD Sample	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

N.S.

* PDBs cannot reach groundwater.
well obstruction

Ahtna

Purging And Sampling Data Sheet

Job#: 21044.006	**Sampler:** J Fedunok / Seavey	**Client:**
Well ID: WR-UW-01B	**Date:** 12/16/21	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 85.16 **Total Depth:** 140.26
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius^2 X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
			PDB Sample							

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date:	Sample time: 10:50	DTW at sample: 130.3
Sample ID: WRUW01B-121621-N	Lab: BC Labs / Pace	Number of bottles: 3
Analysis: 8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#: 2044.00U	**Sampler:** J Feduar / S Kirkey	**Client:**
Well ID: WRHW01B2	**Date:** 12/16/21	**Site:** USDB Lampoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 85.16 **Total Depth:** 140.24

Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System
disp bailer teflon bailer other: **Tubing:** OD: New Dedicated NA
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:
Pump depth/ intake: **Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² x 0.163
(TD - DTW X Multiplier = 1 Volume | 80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = ______ X _____ = ______ (Total Purge) 80%= ______

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
			PDB	SAMPLE						

Did well dewater? YES NO | Total volume removed: (gal / L)

Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:

Sample date: 12/16/21 | Sample time: 10:52 | DTW at sample: 134.3

Sample ID: WRHW01B2-121621 | Lab: BC Labs / Pace | Number of bottles: 3

Analysis: 8260C

Equipment blank ID @	Field blank ID	@
Duplicate ID:	Pre-purge DO:	Post purge DO:
Fe^{2+}:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#: 214H006	**Sampler:** J Fedrick / Skorkay		**Client:**
Well ID: WR4W09B	**Date:** 12/16/21	**Site:** USDB Lompoc	
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:**	**Total Depth:** 140.26

Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System
disp bailer teflon bailer other: **Tubing:** OD: New Dedicated NA
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:
Pump depth/ intake: **Multipliers:** 1" = 0.04 2" = 0.16 3" = 0.37 4" = 0.65 5" = 1.02 6" = 1.47 Radius² X 0.163
(TD - DTW X Multiplier = 1 Volume 80% Recovery (TD - DTW X 0.20 + DTW)

1 Volume = ______ X ______ = ______ (Total Purge) 80%= ______

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB SAMPLE						

Did well dewater? YES NO Total volume removed: (gal / L)
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other: ✗
Sample date: 12/16/21 Sample time: 10:55 DTW at sample: 138.3
Sample ID: WR4W09B3-121621-N Lab: BC Labs / PACE Number of bottles: 3
Analysis: 8260C

Equipment blank ID @	Field blank ID	@
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^{+}$:	Pre-purge ORP:	Post purge ORP:
NAPL depth: Volume of NAPL:		Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-02	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" 2" 3" 4" 6" Other:		**DTW:** 81.73 **Total Depth:** 87.99
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time:	DTW at sample:
Sample ID: WRMW02-121621-N	Lab: BC Labs/PACE	Number of bottles:
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID: WRMW02-121621-D	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

* PDBs cannot reach groundwater obstruction in well.

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-04A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 81.55 **Total Depth:** 84.70
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 0814	DTW at sample: 82.84
Sample ID: WRMW04A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-05A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 81.76 **Total Depth:** 85.11
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21 Sample time: 0945		DTW at sample: 83.16
Sample ID: WRMW05A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^{+}$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-08A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 80.71 **Total Depth:** 84.87
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 10:20	DTW at sample: 83.05
Sample ID: WRMW08A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID FB-121621-N@ 1040	
Duplicate ID: WRMW08A-121621-D	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-09A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 82.97 **Total Depth:** 84.89
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius^2 X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 11:15	DTW at sample: 82.97
Sample ID:WRMW09A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		

Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-10A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 81.92 **Total Depth:** 84.48
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%= _____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 10:55 08:55	DTW at sample: 82.30
Sample ID: WRMW10A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-11A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 81.91 **Total Depth:** 94.58
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 0915	DTW at sample: 82.78
Sample ID: WRMW11A-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID:	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Purging And Sampling Data Sheet

Job#:21044.006.01	**Sampler:** J Feduck/ S. Korbay	**Client:**
Well ID:WR-MW-12A	**Date:** 12/16/2021	**Site:** USDB Lompoc
Well diam: 1/4" 1" (2") 3" 4" 6" Other:		**DTW:** 81.72 **Total Depth:** 84.86
Purge equip: ES - diam: Bladder Peri Waterra Positive Air Displacement Ext. System		
disp bailer teflon bailer other:	**Tubing:** OD: New Dedicated NA	
Purge method: 3-5 Case Volume Micro/Low-Flow Extraction Other:		
Pump depth/ intake:	**Multipliers:** 1"= 0.04 2"= 0.16 3"= 0.37 4"= 0.65 5"=1.02 6"= 1.47 Radius² X 0.163	
(TD - DTW X Multiplier = 1 Volume	80% Recovery (TD - DTW X 0.20 + DTW)	

1 Volume = _____ X _____ = _____ (Total Purge) 80%=_____

Time	Temp (°C / °F)	pH	Cond (mS / µS)	Turbidity (NTU)	Purge Rate (gal or mL/ min)	Volume Removed (gal / L)	DO (mg/l)	ORP (mv)	DTW	Notes
				PDB Sample						
				Installed New PDB						

Did well dewater? YES NO	Total volume removed: (gal / L)	
Sample method: Disp Bailer Ded. Tubing New Tubing Ext. Port Other:		
Sample date: 12/16/21	Sample time: 0930	DTW at sample: 82.76
Sample ID: WRMW01-121621-N	Lab: BC Labs/PACE	Number of bottles: 3
Analysis: VOCs-8260C		
Equipment blank ID @	Field blank ID @	
Duplicate ID: N/A	Pre-purge DO:	Post purge DO:
$Fe2^+$:	Pre-purge ORP:	Post purge ORP:
NAPL depth:	Volume of NAPL:	Volume removed: ml

Ahtna

Ahtna

2255 Contra Costa Blvd, Suite 312
Pleasant Hill, CA 94523
(925) 222-6578

CHAIN OF CUSTODY

WATER / SOIL

Chain of Custody #: 1 of 1

Project Information:

Project Location: Lompoc, CA Sampler/s: J.Feduck and S.Korbay

Project Name: Former USDB Lompoc Report To: Sommer Carter (925-357-0750), Jessica Feduck (925-330-5479)

Project Number: 21044.006.01.000 E-Mail: scarter@ahtna.net; jfeduck@ahtna.net; lab@ahtna.net

Sampling Event: 2021 Second Semiannual Event Laboratory: BC Labcs/PACE Analytical

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	8260C- VOCs	Notes
	~~WRMW01-121621-N~~	~~12/16/21~~		X				X								X	~~MS/MSD~~ 12/16/21
	WRMW01B1-121621-N	12/16/21	10:50	X			3	X								X	
	WRMW01B2-121621-N	12/16/21	10:52	X			3	X								X	
	WRMW01B3-121621-N	12/16/21	10:58	X			3	X								X	
	~~WRMW02-121621-N~~	~~12/16/21~~		X				X								X	
	~~WRMW02-121621-D~~	~~12/16/21~~		X				X								X	
	WRMW04A-121621-N	12/16/21	0814	X			3	X								X	
	WRMW05A-121621-N	12/16/21	0945	X			3	X								X	
	WRMW08A-121621-N	12/16/21	1020	X			3	X								X	
	WRMW09A-121621-N	12/16/21	1115	X			3	X								X	
	WRMW10A-121621-N	12/16/21	0955	X			3	X								X	
	WRMW11A-121621-N	12/16/21	0915	X			3	X								X	
	WRMW12A-121621-N	12/16/21	0930	X			3	X								X	
	FB-121621	12/16/21	1010	X			3	X									
	TB-121621	12/16/21	1230	X			2	X									
	WRMW08A-121621-D	12/16/21	10:25	X			2	X									

Turnaround Time: X : Standard ____ : 3-5 Day Rush ____ : 48 Hour Rush ____ : 24 Hour Rush

Shipment Method: FedEX Tracking ID:

Comments:

Chain of Custody Tracking:

Relinquished By Sampler: JFeduck	Date/Time: 12/16/21 @ 1430	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:

Former U.S. Disciplinary Barrack

Sacramento, CA

Well Maintenance Inspection Form

Date: 12/16/21 Field Technician: JFeduck IS Kobay

Inspection Point	No Corrective Action	Well Cap Non-Functional	Lock- Non Functional	Lock Missing	Bolts Missing (#/ total #)	Tabs Stripped (#/ total #)	Tabs Broken (#/ total #)	Gasket- Non-Functional	Rim/Lid Broken	Apron/Bollard damaged	Other	Well Not Inspected	Notes (repairs made while on site)
WR-MW-01						2/2		✓					added 2 bolts needs retreaded ✓
WR-MW-01B						2/2		✓					replaced 1 bolt ✓
WR-MW-02					1/2	2/2		✓					2 3/4" bolts required.
WR-MW-04A	NA							✓					added 2 bolts retreaded. ✓
WR-MW-05A					0/2	2/2		✓					2 new bolts needed
~~WR-MW-06A~~													
WR-MW-07A					0/2	2/2		✓					2 new bolts needed
WR-MW-08A					2/2	2/2		✓					~~2 bolts added~~ ✓
WR-MW-09A					0/2	2/2		✓					bolts needed.
WR-MW-10A					0/2	2/2		✓					2 bolts needed retreaded
WR-MW-11A					0/2	2/2		✓					2 bolts needed retreaded
WR-MW-12A					0/2	2/2		✓					2 bolts needed retreaded.

INVESTIGATION, MONITORING, O&M PROJECTS
FOLLOW-UP PHASE INSPECTION COVER SHEET

Date: 12/16/2021

Contract No.: W912PL-18-D-0044
Task No.: 2.2.1a
Location/Project: Lompoc, CA/USDB

Project/Area of Inspection: USDB Lompoc / Grandwater sampling (semi annual.)

A. Key Personnel Present:

	Name	Position	Company
1.	Jessica Feduck	Project Lead/QCM	Ahtna
2.	Steve Korbey	SSHO	Ahtna
3.			
4.			
5.			
6.			
7.			
8.			
9.			
10.			

B. Definable Features of Work:

Depth to water measurements (SOP-608) + samples (SOP-607) were collected according to the Final QAPP/work plan (Ahtna, 2021)

Status of Inspection:

completed.

Quality Control Manager

INVESTIGATION PROJECT FOLLOW-UP PHASE INSPECTION CHECKLIST

Assessment Activity	Assessment Mechanism	Person(s) Responsible	Response Action	Completed by/Date
Reporting phase of project: Have data reports been prepared in accordance with project plans? Yes.	Compare data reports to specifications detailed in planning documents. ✓	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators. ✓	Revise documents and reports as appropriate. ✓	12-16-21
After draft report submittal or project completion: Are reports adequate to meet client and regulatory agency requirements? Yes	Review client and agency comments. Prepare responses to comments. ✓	Project Manager, Quality Control Manager, Task Manager, Project Chemist, data users and evaluators. ✓	Revise documents and reports as appropriate. ✓	12-16-21
Have other definable features of work been completed in accordance to project requirements Yes.	Compare definable features of work with project requirements. ✓	Project Manager, Quality Control Manager ✓	Complete definable feature of work as required. ✓	12-16-21

Appendix B. Historical Data Tables

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-IW-01	10/02/02	—	–	–	**54 /J+D**	2.0 /D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<10 U/D
WR-IW-01	11/11/03	–	–	–	<13	<13	<13	<13	<13	<13	3,000
WR-IW-01	02/10/04	–	–	–	<13	<13	<13	<13	<13	<13	4,500
WR-IW-02	10/02/02	–	–	–	**52 /J+D**	2.8 /D	1.1 /D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<10 U/D
WR-IW-02	11/11/03	–	–	–	<13	<13	<13	<13	<13	<13	4,500
WR-IW-03	10/02/02	–	–	–	**84 /D**	**5.9 /D**	3.1 /D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<10 U/D
WR-IW-03	11/11/03	–	–	–	<13	<13	<13	<13	<13	<13	5,100
WR-IW-03	02/10/04	–	–	–	<20	<20	<20	<20	<20	<20	18,000
WR-IW-04	10/02/02	–	–	–	**47 /D**	2.2 /D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<10 U/D
WR-IW-04	11/11/03	–	–	–	<13	<13	<13	<13	<13	<13	5,800
WR-MW-01	07/27/01	60	50	500 J	**122**	**5.2**	–	–	<0.4 U	<5 U	<20 U
WR-MW-01	01/03/02	–	–	–	**130 /S**	**6.8 /S**	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–
WR-MW-01	01/03/02	–	–	–	**130 /S**	**6.7 /S**	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–
WR-MW-01	04/18/02	<50 U	–	–	**15**	4.4 /D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<25 U/D
WR-MW-01	08/13/02	<50 U	<50 U/UJ	–	**89 D**	3.5 D	<2.5 D U	<2.5 D U	<2.5 D U	<2.5 D U	<25 D U
WR-MW-01	08/13/02	<50 U	<50 U/UJ	–	**110 E/J**	4.3	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-01	11/14/02	–	–	–	**130 E/J+**	4.1	<0.50 U/UJ	<0.50 U/UJ	<0.50 U/UJ	<0.50 U/UJ	<5.0 U/UJ
WR-MW-01	02/13/03	–	–	–	**90**	3.6	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-01	02/13/03	–	–	–	**91**	3.4	<0.5 U	<0.5 U	<0.5 U	<0.5 U	10
WR-MW-01	06/26/03	–	–	–	**32**	1.4	**27**	<0.5 U	<0.5 U	<0.5 U	1,700
WR-MW-01	06/26/03	–	–	–	**31**	1.4	**28**	<0.5 U	<0.5 U	<0.5 U	1,500
WR-MW-01	08/06/03	360 YL	4,400 YZ/D	–	**13**	1.3	**47**	<0.5	<0.5	<0.5	1,300 /D
WR-MW-01	11/11/03	54 YZ	2,400 Y	–	**6**	1	**42**	<0.5	<0.5	<0.5	150
WR-MW-01	11/11/03	59 YZ	2,200 Y	–	**6.3**	1.1	**43**	<0.5	<0.5	<0.5	160
WR-MW-01	02/10/04	<50	<50	–	**15**	2.9	**45**	<0.5	<0.5	<0.5	<10
WR-MW-01	05/25/04	<50	1,200 LY	–	**15**	2.2	**28**	<0.5	<0.5	<0.5	22
WR-MW-01	09/02/04	<50	<300	–	**9.6**	2.1	**28**	<0.5	<0.5	<0.5	17
WR-MW-01	12/08/04	<50	54 Y	<300	**18**	2.8	**23**	<0.5	<0.5	<0.5	17
WR-MW-01	03/01/05	<50	<50	<300	**17**	1.8	**16**	<0.5	<0.5	<0.5	<10
WR-MW-01	03/01/05	<50	<50	<300	**17**	1.7	**15**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/07/05	1,400 Y	24,000 Y Z	<60,000	2.4	2.1	**34**	<0.5	<0.5	<0.5	3,200
WR-MW-01	06/07/05	1,400 Y	22,000 Y Z	<60,000	2.1	2.1	**33**	<0.5	<0.5	<0.5	3,100
WR-MW-01	09/14/05	53	5,300 L Y	<3,000	<1.0	1.6	**23**	<1.0	<1.0	<1.0	84
WR-MW-01	12/06/05	250 Y	16,000 Y	<3,000	<0.5	<0.5	**13**	<0.5	<0.5	<0.5	420
WR-MW-01	03/14/06	300 Y	14,000 Y	<6,000	0.9	4.3	**10**	<0.5	<0.5	<0.5	690
WR-MW-01	06/26/06	–	–	–	<1.0	3.3	**13**	<1.0	<1.0	<1.0	<20
WR-MW-01	06/26/06	–	–	–	<1.0	4.5	**12**	<1.0	<1.0	<1.0	<20
WR-MW-01	09/26/06	–	–	–	<0.5	4.0	**9.1**	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-01	09/26/06	–	–	–	<2.0	<2.5	**7.4**	<2.5	<2.5	<2.5	<50
WR-MW-01	12/13/06	<50	1,100 HL	<300	<0.5	<0.5	**8.3**	<0.5	<0.5	<0.5	<10
WR-MW-01	03/27/07	–	–	–	<2.5	<2.5	**8.3**	<2.5	<2.5	<2.5	<50
WR-MW-01	06/12/07	–	–	–	0	<0.5	5.1	<0.5	<0.5	<0.5	<10
WR-MW-01	06/12/07	–	–	–	<0.5	<0.5	4.4	<0.5	<0.5	<0.5	<10
WR-MW-01	09/26/07	–	–	–	<0.5	<0.5	**6.1**	<0.5	<0.5	<0.5	<10
WR-MW-01	09/26/07	–	–	–	<0.5	<0.5	**6.2**	<0.5	<0.5	<0.5	<10
WR-MW-01	12/13/07	<50	–	–	<0.5	<0.5	4.5	<0.5	<0.5	<0.5	<10
WR-MW-01	12/13/07	<50	390	<300	<0.5	<0.5	4.0	<0.5	<0.5	<0.5	<10
WR-MW-01	03/27/08	<50	–	–	<0.5	<0.5	**7.5**	<0.5	<0.5	<0.5	<10
WR-MW-01	03/27/08	<50	–	–	<0.5	0.5	**7.6**	<0.5	<0.5	<0.5	<10
WR-MW-01	10/08/08	–	–	–	1.5	2.6	5.6	<0.5	<0.5	<0.5	<10
WR-MW-01	10/08/08	–	–	–	1.4	2.7	5.4	<0.5	<0.5	<0.5	<10
WR-MW-01	04/09/09	<50	370 Y	<300	0.8	1.0	**6.3**	<0.5	<0.5	<0.5	<10
WR-MW-01	04/09/09	<50	130 Y	<300	0.8	1.0	**6.6**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/24/10	<50	62 Y	<300	3.8	**6.6**	**11**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/24/10	<50	57Y	<300	4.1	**6.2**	**9.4**	<0.5	<0.5	<0.5	<10
WR-MW-01	01/26/11	<50	<50	<300	**6.2**	**5.8**	3.8	<0.5	<0.5	<0.5	<10
WR-MW-01	01/26/11	<50	<50	<300	4.9	4.9	3.4	<0.5	<0.5	<0.5	<10
WR-MW-01	06/20/11	<50	<50	<300	**9.2**	**8.6**	**6.3**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/20/11	<50	<50	<300	**9**	**8.3**	**6.3**	<0.5	<0.5	<0.5	<10
WR-MW-01	01/11/12	<50	<50	<300	**12**	**8.5**	**10**	<0.5	<0.5	<0.5	<10
WR-MW-01	01/11/12	<50	<50	<300	**11**	**8.5**	**10**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/26/12	<50	<50	<300	**11**	**7.8**	**14**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/26/12	<50	<50	<300	**10**	**7.7**	**14**	<0.5	<0.5	<0.5	<10
WR-MW-01	01/04/13	<50	<54	<330	**8.2**	**9**	**18**	<0.5	<0.5	<0.5	<10
WR-MW-01	01/04/13	<50	64 Y	<340	**8.9**	**8.9**	**17**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/25/13	<50	150	<330	**7.4**	**9.8**	**18**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/25/13	<50	130	<320	**7.2**	**9.6**	**17**	<0.5	<0.5	<0.5	<10
WR-MW-01	12/03/13	<50	<50	<300	4.0	**6.9**	**13**	<0.5	<0.5	<0.5	<10
WR-MW-01	12/03/13	<50	<52	<310	4.0	**6.8**	**13**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/30/14	<50	<49	<290	4.1	**7.4**	**8.6**	<0.5	<0.5	<0.5	<10
WR-MW-01	06/30/14	<50	<49	<290	3.9	**7.3**	**8.8**	<0.5	<0.5	<0.5	<10
WR-MW-01	11/05/14	<50	<50	<300	3.0	3.6	2.8	<0.5	<0.5	<0.5	<10
WR-MW-01	11/05/14	<50	<50	<300	3.8	3.8	2.4	<0.5	<0.5	<0.5	<10
WR-MW-01	09/28/16	–	–	–	0.7	0.9	0.7	<0.2	<0.2	<0.4	40
WR-MW-01	12/21/16	–	–	–	3.4	3.0	4.9	<0.1 J	<0.2	<0.4	20
WR-MW-01	06/28/17	–	–	–	1.3	3.1	**10**	0.2 J	<0.4	<0.4	1 J

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-01	12/19/17	–	–	–	0.9	3.0	**13**	0.3 J	<0.4	<0.4	4.5 J
WR-MW-01	06/14/18	–	–	–	0.8	2.4	**15**	0.4 J	<0.4	<0.4	<4.0
WR-MW-01	12/14/18	–	–	–	0.23	0.29	0.18	<0.5	<0.5	<0.5	<5 UJ
WR-MW-01	12/14/18	–	–	–	0.33	<0.5	<0.5	<0.5	<0.5	<0.5	<5 UJ
WR-MW-01	06/25/19	–	–	–	0.7	0.4	0.4	<0.4	<0.4	<0.4	<1.0
WR-MW-01	12/30/19	–	–	–	0.3 J	0.9	2.3 J	<0.4	<0.4	<0.4	<4.0
WR-MW-01	12/30/19	–	–	–	0.3 J	1.1	3.1 J	<0.4	<0.4	<0.4	<4.0
WR-MW-01	05/07/20	–	–	–	0.3 J	**5.4 J**	**8.0 J**	0.2 J	<0.4 UJ	<0.4 UJ	<4.0 UJ
WR-MW-01	05/07/20	–	–	–	0.3	**5.4**	**8.4**	0.2	<0.4	<0.4	<4.0 UJ
WR-MW-01	11/18/20	–	–	–	0.28	0.24	0.14	<0.2	<0.2	<0.2	<10 J
WR-MW-01	11/18/20	–	–	–	0.34	1.5	1.4	<0.2	<0.2	<0.2	<10
WR-MW-01	12/16/21	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	10/03/02	<50 U	<50 U	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	2.5	0.083 J	<5.0 U
WR-MW-01B	10/03/02	<50 U	<50 U	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	2.6	0.088 J	<5.0 U
WR-MW-01B	02/09/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	1.9	<0.5 U	<10 U
WR-MW-01B	05/29/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.8 /J+	<0.5 U	<10 U
WR-MW-01B	08/06/03	–	–	–	<0.5	<0.5	<0.5	<0.5	2.9	<0.5	<10
WR-MW-01B	05/29/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.8 /J+	<0.5 U	<10 U
WR-MW-01B	08/06/03	–	–	–	<0.5	<0.5	<0.5	<0.5	2.9	<0.5	<10
WR-MW-01B	11/10/03	–	–	–	<0.5	<0.5	<0.5	<0.5	4.0	<0.5	<10
WR-MW-01B	02/10/04	–	–	–	<0.5	<0.5	<0.5	<0.5	5.0	<0.5	<10
WR-MW-01B	05/24/04	–	–	–	<0.5	<0.5	<0.5	<0.5	4.7	<0.5	<10
WR-MW-01B	09/02/04	–	–	–	<0.5	<0.5	<0.5	<0.5	4.4 /J+	<0.5	<10
WR-MW-01B	12/08/04	–	–	–	<0.5	<0.5	<0.5	<0.5	5.1	<0.5	<10
WR-MW-01B	03/02/05	–	–	–	<0.5	<0.5	<0.5	<0.5	4.5	<0.5	<10
WR-MW-01B	06/07/05	–	–	–	<0.5	<0.5	<0.5	<0.5	4.4	<0.5	<10
WR-MW-01B	09/13/05	–	–	–	<0.5	<0.5	<0.5	<0.5	2.9	<0.5	<10
WR-MW-01B	12/06/05	–	–	–	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<10
WR-MW-01B	03/14/06	–	–	–	<0.5	<0.5	<0.5	<0.5	2.0	<0.5	<10
WR-MW-01B	06/26/06	–	–	–	<0.5	<0.5	<0.5	<0.5	1.4 J+	<0.5	<10
WR-MW-01B	09/26/06	–	–	–	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<10
WR-MW-01B	12/13/06	–	–	–	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<10
WR-MW-01B	03/26/07	–	–	–	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<10
WR-MW-01B	06/12/07	–	–	–	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<10
WR-MW-01B	09/25/07	–	–	–	<0.5	<0.5	<0.5	<0.5	0.9	<0.5	<10
WR-MW-01B	12/13/07	–	–	–	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<10
WR-MW-01B	03/26/08	–	–	–	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<10
WR-MW-01B	10/07/08	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	10/07/08	–	–	–	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<10
WR-MW-01B	04/09/09	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-01B	06/23/10	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	02/14/11	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	06/20/11	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	01/10/12	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	01/03/13	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	12/03/13	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	11/04/14	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-01B	06/26/17	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	06/28/17	–	–	–	0.1 J	<0.2	<0.4	<0.4	<0.4	<0.4	1.4 J
WR-MW-01B	12/19/17	–	–	–	0.1 J	<0.2	<0.4	<0.4	<0.4	<0.4	6.9 J
WR-MW-01B	12/14/18	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5 UJ
WR-MW-01B	06/25/19	–	–	–	<0.4	<0.4	<0.2	<0.4	<0.4	<0.4	1.4
WR-MW-01B	06/25/19	–	–	–	<0.4	<0.4	<0.2	<0.4	<0.4	<0.4	1.3
WR-MW-01B	12/30/19	–	–	–	<0.4	<0.2	<0.4	<0.4	<0.4	<0.4	<4.0
WR-MW-01B	05/07/20	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	11/18/20	–	–	–	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<10 J
WR-MW-01B	12/16/21	–	–	–	0.30 U	0.16 U	0.16 U	0.16 U	0.2 U	0.16 U	–
WR-MW-02	07/27/01	30 J	40 J	80 J	**5.3**	<2 U	–	–	<0.4 U	<5 U	<20 U
WR-MW-02	01/03/02	–	–	–	**8.1 /S**	0.4 J/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–
WR-MW-02	04/18/02	<50 U	–	–	**8**	0.42 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-02	04/18/02	<50 U	–	–	**6.7**	0.36 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-02	08/13/02	<50 U	<50 U/UJ	–	**6.4**	0.28 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-02	11/14/02	–	–	–	**11 /J+**	0.53	<0.50 U/UJ	<0.50 U/UJ	<0.50 U/UJ	<0.50 U/UJ	<5.0 U/UJ
WR-MW-02	02/08/03	–	–	–	**7.3**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-02	05/27/03	–	–	–	**7.2**	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-02	08/05/03	<50	<50	–	**7.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	11/10/03	<50	<230 Y/U	–	**8.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	02/10/04	<50	<50	–	**7.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	05/25/04	<50	<50	–	**8**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	09/03/04	<50	<300	–	**6.7 /J+**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	12/07/04	<50	<50	<300	**7.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	03/02/05	<50	<50	<300	**9.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	06/07/05	<50	<50	<300	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	09/14/05	<50	<50	<300	**16**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	12/06/05	<50	<50	<300	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	03/14/06	<50	54	<300	**18**	<0.5	1.6	<0.5	<0.5	<0.5	<10
WR-MW-02	06/27/06	–	–	–	**16**	<0.5	2.0	<0.5	<0.5	<0.5	<10
WR-MW-02	09/25/06	–	–	–	**19**	<0.5	1.5	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-02	12/13/06	<50	<50	<300	**17**	<0.5	2.8	<0.5	<0.5	<0.5	<10
WR-MW-02	03/26/07	–	–	–	**16**	<0.5	4	<0.5	<0.5	<0.5	<10
WR-MW-02	06/12/07	–	–	–	**15**	<0.5	4.4	<0.5	<0.5	<0.5	<10
WR-MW-02	09/25/07	–	–	–	4.4	<0.5	3.1	<0.5	<0.5	<0.5	<10
WR-MW-02	12/13/07	<50	<50	<300	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	03/26/08	<50	<50	<300	**7.5**	<0.5	2.0	<0.5	<0.5	<0.5	<10
WR-MW-02	10/07/08	–	–	–	**18**	1.1	4.4	<0.5	<0.5	<0.5	<10
WR-MW-02	04/09/09	–	–	–	**15**	1.1	**7.8**	<0.5	<0.5	<0.5	<10
WR-MW-02	09/28/09	–	–	–	**16**	2.3	**14**	<0.5	<0.5	<0.5	<10
WR-MW-02	07/01/10	–	–	–	**17**	1.5	**6.5**	<0.5	<0.5	<0.5	<10
WR-MW-02	01/27/11	–	–	–	**13**	1.1	4.8	<0.5	<0.5	<0.5	<10
WR-MW-02	06/20/11	–	–	–	**15**	1.1	**7.9**	<0.5	<0.5	<0.5	<10
WR-MW-02	01/11/12	–	–	–	**18**	1.4	**6**	<0.5	<0.5	<0.5	<10
WR-MW-02	06/27/12	–	–	–	**19**	1.1	4.7	<0.5	<0.5	<0.5	<10
WR-MW-02	01/04/13	–	–	–	**15**	1	3.4	<0.5	<0.5	<0.5	<10
WR-MW-02	06/26/13	–	–	–	**14**	1.2	2.8	<0.5	<0.5	<0.5	<10
WR-MW-02	12/04/13	–	–	–	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	07/01/14	–	–	–	**5.6**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	11/04/14	–	–	–	4.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-02	09/28/16	–	–	–	**9.4**	0.3 J	<0.2	<0.2	<0.2	<0.4	45
WR-MW-02	12/21/16	–	–	–	**22 J**	0.4 J	<0.2 J	<0.2 J	<0.2 J	<0.4 J	43 J
WR-MW-02	06/28/17	–	–	–	**21**	0.1 J	<0.4	<0.4	<0.4	<0.4	1.3 J
WR-MW-02	12/19/17	–	–	–	**21**	0.1 J	<0.4	<0.4	<0.4	<0.4	5.5 J
WR-MW-02	12/14/18	–	–	–	**8.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<5 UJ
WR-MW-02	12/14/18	–	–	–	**18**	0.3 J	0.4 J	<0.4	<0.4	<0.4	<4
WR-MW-02	06/25/19	–	–	–	**7.6**	<0.4	<0.2	<0.4	<0.4	<0.4	1.0
WR-MW-02	12/30/19	–	–	–	**17**	<0.2	<0.4	<0.4	<0.4	<0.4	<4.0
WR-MW-02	05/07/20	–	–	–	**12**	<0.2	<0.4	<0.4	<0.4	<0.4	<4.0 UJ
WR-MW-02	11/18/20	–	–	–	**6.9**	<0.2	<0.2	<0.2	<0.2	<0.2	<10 J
WR-MW-02	12/16/21	–	–	–	–	–	–	–	–	–	–
WR-MW-03	07/27/01	20 J	50	90 J	<2 U	<2 U	–	–	<0.4 U	<5 U	<20 U
WR-MW-03	01/03/02	–	–	–	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–
WR-MW-03	04/18/02	<50 U	–	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-03	08/13/02	<50 U	<50 U/UJ	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-03	11/13/02	–	–	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-03	02/08/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-03	05/27/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-03	08/05/03	<50	<50	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-03	11/10/03	<50	<130 Y/U-	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-03	12/07/04	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-03	12/08/05	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-03	12/14/06	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-03	12/13/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-03	10/07/08	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	10/03/02	<50 U	<50 U	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-04A	02/08/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-04A	05/22/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-04A	08/05/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	11/10/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/08/04	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/08/04	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/07/05	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	03/14/06	–	–	–	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/27/06	–	–	–	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	09/26/06	–	–	–	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/13/06	–	–	–	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	03/26/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/11/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	09/25/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/13/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	03/26/08	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	10/07/08	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	04/08/09	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/23/10	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	02/14/11	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/20/11	–	–	–	1.9	0.7	1.1	<0.5	<0.5	<0.5	<10
WR-MW-04A	01/10/12	–	–	–	2.6	0.8	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/26/12	–	–	–	2.1	0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	01/03/13	–	–	–	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/25/13	–	–	–	0.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04A	12/03/13	–	–	–	1.9	<0.5	0.6	<0.5	<0.5	<0.5	<10
WR-MW-04A	06/30/14	–	–	–	**5.0**	1.0	0.7	<0.5	<0.5	<0.5	<10
WR-MW-04A	11/04/14	–	–	–	**6.5**	1.1	0.6	<0.5	<0.5	<0.5	<10
WR-MW-04A	09/28/16	–	–	–	0.9	0.5	0.5 J	<0.2	<0.2	<0.4	38
WR-MW-04A	12/21/16	–	–	–	1.2	0.4 J	0.2 J	<0.2	<0.2	<0.4	20
WR-MW-04A	06/28/17	–	–	–	**6.6**	1.1	0.2 J	<0.4	<0.4	<0.4	3.4 J

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-04A	12/19/17	–	–	–	**6.2**	1.4 J	0.3 J	<0.4	<0.4	<0.4	3.6 J
WR-MW-04A	12/19/17	–	–	–	**6.6**	1.5	0.3 J	<0.4	<0.4	<0.4	3.8 J
WR-MW-04A	06/14/18	–	–	–	**5.7**	1.0	0.3 J	<0.2	<0.4	<0.4	1.0 J
WR-MW-04A	12/14/18	–	–	–	4.3	0.91	0.25	<0.5	<0.5	<0.5	<5 UJ
WR-MW-04A	06/25/19	–	–	–	**7.4**	1.1	0.2	<0.4	<0.4	<0.4	<1.0
WR-MW-04A	12/30/19	–	–	–	**5.4 J**	0.4	<0.4	<0.4	<0.4	<0.4	<4.0
WR-MW-04A	05/07/20	–	–	–	**5.5**	0.9	0.3	<0.4	<0.4	<0.4	<4.0 UJ
WR-MW-04A	11/18/20	–	–	–	**5.7**	1.1	0.33	<0.2	<0.2	<0.2	<10 J
WR-MW-04A	12/16/21	–	–	–	2.1	1.0	0.83	0.16 U	0.16 U	0.16 U	–
WR-MW-04B	10/03/02	<50 U	<50 U/J	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	0.083 J	<0.50 U	<5.0 U
WR-MW-04B	02/09/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-04B	05/22/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-04B	08/05/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04B	11/10/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-04B	12/08/04	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	10/02/02	<50 U	<50 U	–	**34 /J+T**	**8.3 /D**	1.1 J/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<25 U/D
WR-MW-05A	02/12/03	–	–	–	**150**	**10**	0.9	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-05A	06/26/03	–	–	–	**120**	**6.5**	0.6	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-05A	08/06/03	<50	<50	–	**89**	**5.7**	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	08/06/03	<50	<50	–	**86**	**5.6**	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	11/11/03	<50	<250 Y/U	–	**45.09 /T**	**5.8**	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	02/10/04	51 YZ	<50	–	**120**	**5.9**	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	02/10/04	<50	<50	–	**39.13 /T**	**5.9**	0.6	<0.5	<0.5	<0.5	<10
WR-MW-05A	05/25/04	52 YZ	<50	–	**130**	**7.6**	1.8	<0.5	<0.5	<0.5	<10
WR-MW-05A	05/25/04	<50	<50	–	**110**	**7.2**	1.6	<0.5	<0.5	<0.5	<10
WR-MW-05A	09/02/04	55 YZ	<50	–	**140 /J+**	**6.9 /J+**	1.8 /J+	<0.5	<0.5	<0.5	<10
WR-MW-05A	12/08/04	<50	<50	<300	**100**	**5.5**	**20**	<0.5	<0.5	<0.5	<10
WR-MW-05A	03/01/05	59 YZ	<50	<300	**100**	3.8	**40**	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/07/05	97 Z	<50	<300	**75**	2.2	2.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	09/14/05	<50	<50	<300	**25**	4.1	**28**	<0.5	<0.5	<0.5	<10
WR-MW-05A	09/14/05	<50	69 Y	<300	**23**	4.2	**29**	<0.5	<0.5	<0.5	<10
WR-MW-05A	12/06/05	<50	81 Y	<300	**18**	3.5	**28**	<0.5	<0.5	<0.5	<10
WR-MW-05A	03/14/06	58 Y	1,100 Y	<300	**11**	2.1	**60**	<0.5	<0.5	<0.5	170
WR-MW-05A	03/14/06	63 Y	1,200 Y	<300	**11**	2.3	**61**	<0.5	<0.5	<0.5	180
WR-MW-05A	03/27/06	–	–	–	<2.5	<2.5	**13**	<2.5	<2.5	<2.5	<50
WR-MW-05A	03/27/06	–	–	–	<2.5	<2.5	**13**	<2.5	<2.5	<2.5	<50
WR-MW-05A	06/26/06	–	–	–	<0.5	<0.5	**38**	<0.5	<0.5	<0.5	130
WR-MW-05A	09/26/06	–	–	–	<1.0	<1.0	**23**	<1.0	<1.0	<1.0	320

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-05A	12/13/06	<50	4,600 HL	710 LY	0.6	<0.5	**15**	<0.5	<0.5	<0.5	18
WR-MW-05A	06/12/07	–	–	–	0.8	<0.5	**23**	<0.5	<0.5	<0.5	<10
WR-MW-05A	09/25/07	–	–	–	0.7	<0.5	**16**	<0.5	<0.5	<0.5	<10
WR-MW-05A	12/13/07	69 Y	7,800	1,400 Y	<2.0	2.5	**14**	<2.0	<2.0	<2.0	<40
WR-MW-05A	03/27/08	–	–	–	1.1	1.5	**17**	<2.0	<2.0	<2.0	<40
WR-MW-05A	10/08/08	–	–	–	0.6	1	**28**	<0.5	<0.5	<0.5	<10
WR-MW-05A	04/09/09	<50	180 Y	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/23/10	<50	900	420	<0.5	<0.5	**52**	<0.5	<0.5	<0.5	<10
WR-MW-05A	01/26/11	69 Y	550	<300	<0.5	<0.5	**62**	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/20/11	<50	450	<300	<0.5	<0.5	**67**	0.7	<0.5	<0.5	<10
WR-MW-05A	01/10/12	<50	340	<300	<0.5	<0.5	**47**	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/26/12	<50	120 Y	<300	<0.5	<0.5	**29**	<0.5	<0.5	<0.5	<10
WR-MW-05A	01/03/13	<50	<53	<320	<0.5	<0.5	**20**	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/25/13	<50	240	<320	<0.5	<0.5	**10**	<0.5	<0.5	<0.5	<10
WR-MW-05A	12/03/13	<50	52 Y	<310	<0.5	<0.5	**12**	<0.5	<0.5	<0.5	<10
WR-MW-05A	06/30/14	<50	160 Y	<300	<0.5	<0.5	**19**	<0.5	<0.5	<0.5	<10
WR-MW-05A	11/04/14	<50	300	<300	<0.5	0.7	**36**	<0.5	<0.5	<0.5	<10
WR-MW-05A	09/28/16	–	–	–	<0.2	<0.2	**8.4**	<0.2	<0.2	<0.4	41
WR-MW-05A	12/21/16	–	–	–	0.8	0.3 J	**13**	0.2 J	<0.2	<0.4	23
WR-MW-05A	06/28/17	–	–	–	0.4 J	0.3 J	**14**	0.2 J	<0.4	<0.4	0.8 J
WR-MW-05A	12/19/17	–	–	–	0.4 J	0.2 J	**16**	0.3 J	<0.4	<0.4	4.2 J
WR-MW-05A	06/14/18	–	–	–	0.3 J	0.1 J	**19**	0.3 J	<0.4	<0.4	0.8 J
WR-MW-05A	12/14/18	–	–	–	0.23	<0.5	**20**	0.37	<0.5	<0.5	<5 UJ
WR-MW-05A	06/25/19	–	–	–	<0.4	<0.4	<0.2	<0.4	<0.4	<0.4	12
WR-MW-05A	12/30/19	–	–	–	0.3 J	<0.2	19 J	0.4 J	<0.4	<0.4	<4.0
WR-MW-05A	05/07/20	–	–	–	0.2	<0.2	**19**	<0.5	<0.4	<0.4	<4.0 UJ
WR-MW-05A	11/18/20	–	–	–	0.19	<0.2	**15**	0.27	<0.2	<0.2	<10 J
WR-MW-05A	12/16/21	–	–	–	0.30 U	0.16 U	**12**	0.11 J	0.16 U	0.16 U	–
WR-MW-05B	09/30/02	<50 U	<500 U	–	0.32 J	<0.50 U	<0.50 U	<0.50 U	0.16 J	<0.50 U	<5.0 U
WR-MW-05B	02/09/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.8	<0.5 U	<10 U
WR-MW-05B	05/29/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	0.9 /J+	<0.5 U	<10 U
WR-MW-05B	08/06/03	–	–	–	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<10
WR-MW-05B	11/10/03	–	–	–	<0.5	<0.5	<0.5	<0.5	1	<0.5	<10
WR-MW-05B	12/08/04	–	–	–	<0.5	<0.5	<0.5	<0.5	1.7	<0.5	<10
WR-MW-05B	12/07/05	–	–	–	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<10
WR-MW-05B	12/13/06	–	–	–	0.9	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	10/03/02	<50 U	<50 U	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-06A	02/08/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-06A	05/22/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-06A	08/06/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	11/11/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	12/09/04	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	12/07/05	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	12/13/06	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	12/13/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06A	10/07/08	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	09/30/02	<50 U	<50 U/J-	–	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-06B	02/09/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-06B	05/22/03	–	–	–	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-06B	08/06/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	11/11/03	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	12/09/04	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	12/07/05	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	12/13/06	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-06B	12/13/07	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	10/03/02	<50 U	<50 U	–	1.5	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-07A	02/12/03	–	–	–	1.4	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-07A	05/28/03	–	–	–	1.3	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-07A	08/06/03	–	–	–	1.2	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	11/11/03	–	–	–	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	02/10/04	–	–	–	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	05/24/04	–	–	–	2.2	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	09/03/04	–	–	–	2.6 /J+	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	12/07/04	–	–	–	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	03/02/05	–	–	–	1.7	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	06/07/05	–	–	–	2.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	09/14/05	–	–	–	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	12/08/05	–	–	–	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	03/14/06	–	–	–	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	06/27/06	–	–	–	3.0	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	09/25/06	–	–	–	3.2	<0.5	0.6	<0.5	<0.5	<0.5	<10
WR-MW-07A	12/13/06	–	–	–	3.0	<0.5	0.9	<0.5	<0.5	<0.5	<10
WR-MW-07A	03/26/07	–	–	–	1.4	<0.5	1.3	<0.5	<0.5	<0.5	<10
WR-MW-07A	06/12/07	–	–	–	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	09/25/07	–	–	–	1.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-07A	12/13/07	–	–	–	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-07A	03/26/08	–	–	–	1.6	<0.5	3.2	<0.5	<0.5	<0.5	<10
WR-MW-07A	10/07/08	–	–	–	2.1	<0.5	1.0	<0.5	<0.5	<0.5	<10
WR-MW-07A	04/07/09	–	–	–	1.7	<0.5	1.3	<0.5	<0.5	<0.5	<10
WR-MW-07A	06/24/10	–	–	–	1.4	<0.5	1.1	<0.5	<0.5	<0.5	<10
WR-MW-07A	01/26/11	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/20/11	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	01/10/12	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/26/12	–	–	–	–	–	–	–	–	–	–
WR-MW-08A	10/03/02	<50 U	<50 U	–	2.6 /J+	0.16 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<5.0 U
WR-MW-08A	02/08/03	–	–	–	4.5	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-08A	05/27/03	–	–	–	**5.1**	0.5	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-08A	08/05/03	–	–	–	**5.1**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	11/10/03	–	–	–	**5.2**	0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	02/10/04	–	–	–	**6.5**	0.6	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	05/25/04	–	–	–	**6.3**	0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	09/03/04	–	–	–	**4.2 /J+**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	12/08/04	–	–	–	**5.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	03/02/05	–	–	–	**11**	0.6	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/07/05	–	–	–	**6**	<5.0	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	09/14/05	–	–	–	**6.3**	<5.0	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	12/06/05	–	–	–	2.8	<5.0	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	03/14/06	–	–	–	**11**	<5.0	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/27/06	–	–	–	**12**	<5.0	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	09/26/06	–	–	–	**12**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	12/13/06	–	–	–	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	03/26/07	–	–	–	**7.3**	<0.5	1.6	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/11/07	–	–	–	**6.1**	<0.5	3.4	<0.5	<0.5	<0.5	<10
WR-MW-08A	09/25/07	–	–	–	3.5	<0.5	2.4	<0.5	<0.5	<0.5	<10
WR-MW-08A	12/13/07	–	–	–	**6.3**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	03/26/08	–	–	–	**6.2**	<0.5	1.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	10/07/08	–	–	–	3.2	<0.5	0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	04/09/09	–	–	–	4.6	<0.5	1.6	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/24/10	–	–	–	**8.4**	0.5	3.6	<0.5	<0.5	<0.5	<10
WR-MW-08A	01/27/11	–	–	–	**8.4**	<0.5	1.7	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/20/11	–	–	–	**9.8**	0.7	1.9	<0.5	<0.5	<0.5	<10
WR-MW-08A	01/11/12	–	–	–	**8**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/26/12	–	–	–	**6.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	01/03/13	–	–	–	**5.6**	<0.5	1.2	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-08A	06/25/13	–	–	–	4.0	<0.5	1.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	12/03/13	–	–	–	3.2	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	06/30/14	–	–	–	2.0	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	11/05/14	–	–	–	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-08A	09/28/16	–	–	–	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	41
WR-MW-08A	12/21/16	–	–	–	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	18
WR-MW-08A	06/28/17	–	–	–	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	<2.0
WR-MW-08A	12/19/17	–	–	–	<0.2	<0.2	<0.4	<0.4	<0.4	<0.4	1.7 J
WR-MW-08A	06/14/18	–	–	–	<0.2	<0.2	<0.2	<0.2	<0.4	<0.4	0.8 J
WR-MW-08A	12/14/18	–	–	–	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5 UJ
WR-MW-08A	06/25/19	–	–	–	<0.4	<0.4	<0.2	<0.4	<0.4	<0.4	1.0
WR-MW-08A	12/30/19	–	–	–	<0.4	<0.2	<0.4	<0.4	<0.4	<0.4	<4.0
WR-MW-08A	05/07/20	–	–	–	<0.4	<0.2	<0.4	<0.4	<0.4	<0.4	<4.0 UJ
WR-MW-08A	11/18/20	–	–	–	<0.3	<0.2	<0.2	<0.2	<0.2	<0.2	<10 J
WR-MW-08A	12/16/21	–	–	–	0.14 J	0.16 U	0.16 U	0.16 U	0.16 U	0.16 U	–
WR-MW-09A	10/03/02	<50 U	<50 U	–	**54 /D**	1.6 /D	<1.0 U/D	0.19 J/D	0.16 J/D	0.14 J/D	<10 U/D
WR-MW-09A	02/12/03	–	–	–	**66**	1.2	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-09A	06/26/03	–	–	–	**55**	0.6	<0.5 U	<0.5 U	<0.5 U	<0.5 U	<10 U
WR-MW-09A	08/06/03	<50	<50	–	**37**	0.6	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-09A	11/11/03	<50	<85 Y/U	–	**58**	0.6	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-09A	02/10/04	<50	<50	–	**48**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-09A	05/24/04	<50	<50	–	**40**	<0.5	1.0	<0.5	<0.5	<0.5	<10
WR-MW-09A	09/02/04	<50	<300	–	**54**	0.6	4.1	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/08/04	<50	<50	<300	**50 /J+**	0.9 /J+	**7.9 /J+**	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/08/04	<50	<50	<300	**37**	0.7	**6.8**	<0.5	<0.5	<0.5	<10
WR-MW-09A	03/01/05	<50	<50	<300	**57**	0.6	3.3	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/07/05	50 Z	<50	<300	**44**	0.6	3.8	<0.5	<0.5	<0.5	<10
WR-MW-09A	09/14/05	<50	<50	<300	**53**	1	5.5	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/06/05	<50	<50	<300	**49**	1.1	**11**	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/06/05	<50	<50	<300	**50**	1.1	**12**	<0.5	<0.5	<0.5	<10
WR-MW-09A	03/14/06	<50	80 Y	<300	**40**	1.4	**14**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/26/06	–	–	–	**11**	1.4	**27**	<0.5	<0.5	<0.5	110
WR-MW-09A	09/26/06	–	–	–	<0.5	<0.5	**22**	<0.5	<0.5	<0.5	140
WR-MW-09A	12/13/06	<50	97 Y	<300	1.5	0.5	**18**	<0.5	<0.5	<0.5	19
WR-MW-09A	03/27/07	–	–	–	1.6	<0.5	**14**	<0.5	<0.5	<0.5	<10
WR-MW-09A	07/12/07	–	–	–	1.3	0.9	**16**	<0.5	<0.5	<0.5	<10
WR-MW-09A	09/26/07	–	–	–	1.6	0.6	**11**	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/12/07	<50	180	<300	1.5	1.1	**11**	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-09A	10/08/08	–	–	–	1.1	1.0	**8.9**	<0.5	<0.5	<0.5	<10
WR-MW-09A	04/09/09	<50	87 Y	<300	0.9	0.7	**8**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/24/10	<50	420	<300	<0.5	0.6	**12**	<0.5	<0.5	<0.5	<10
WR-MW-09A	01/26/11	<50	410	<300	<0.5	1.2	**10**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/20/11	<50	760	<300	0.5	<0.5	**14**	<0.5	<0.5	<0.5	<10
WR-MW-09A	01/10/12	<50	430	360	<0.5	<0.5	**12**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/26/12	<50	460	<300	<0.5	<0.5	**15**	<0.5	<0.5	<0.5	<10
WR-MW-09A	01/03/13	<50	480	<320	<0.5	<0.5	**20**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/25/13	<50	740	<330	<0.5	0.7	**20**	<0.5	<0.5	<0.5	<10
WR-MW-09A	12/03/13	<50	230	<320	<0.5	<0.5	**20**	<0.5	<0.5	<0.5	<10
WR-MW-09A	06/30/14	<50	450	<300	<0.5	0.8	**18**	<0.5	<0.5	<0.5	<10
WR-MW-09A	11/04/14	<50	190 Y	<300	<0.5	<0.5	**18**	<0.5	<0.5	<0.5	<10
WR-MW-09A	09/28/16	–	–	–	0.2 J	1.2	**27**	<0.4 J	<0.2	<0.4	39
WR-MW-09A	12/21/16	–	–	–	0.7 J	0.4 J	**40 J**	0.5 J	<0.2 J	<0.4 J	24 J
WR-MW-09A	12/21/16	–	–	–	0.7	0.3 J	**41**	0.5	<0.2	<0.4	24
WR-MW-09A	06/28/17	–	–	–	0.5	0.7	**32**	0.4 J	<0.4	<0.4	1.4 J
WR-MW-09A	12/19/17	–	–	–	0.9	1.1	**30**	0.4 J	<0.4	<0.4	4.6 J
WR-MW-09A	06/14/18	–	–	–	1.2	1.5	**34**	0.4 J	<0.4	<0.4	0.7 J
WR-MW-09A	12/14/18	–	–	–	0.43	0.68	**26**	0.38 J	<0.5	<0.5	<5 UJ
WR-MW-09A	06/25/19	–	–	–	0.6	0.9	**25**	0.2	<0.4	<0.4	1.0
WR-MW-09A	12/30/19	–	–	–	0.4 J	0.9	**13**	0.1	<0.4	<0.4	<4.0
WR-MW-09A	05/07/20	–	–	–	0.4	1.2	**22**	0.4	<0.4	<0.4	<4.0 UJ
WR-MW-09A	11/18/20	–	–	–	0.46	0.96	**16**	0.11	<0.2	<0.2	<10 J
WR-MW-09A	12/16/21	–	–	–	0.12 J	0.17 J	4.1	0.16 U	0.16 U	0.16 U	–
WR-MW-10A	09/03/04	–	–	–	**14 /J+**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	12/08/04	–	–	–	**19 /J+**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	03/02/05	–	–	–	**17**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/07/05	–	–	–	**23**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	09/13/05	–	–	–	**19**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	12/06/05	–	–	–	**18**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	03/14/06	–	–	–	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/27/06	–	–	–	**19**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	09/25/06	–	–	–	**31**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	12/13/06	–	–	–	**24**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-10A	03/26/07	–	–	–	**24**	<0.5	0.9	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/11/07	–	–	–	**19**	<0.5	1.9	<0.5	<0.5	<0.5	<10
WR-MW-10A	09/26/07	–	–	–	**10**	<0.5	2.1	<0.5	<0.5	<0.5	<10
WR-MW-10A	12/13/07	–	–	–	**30**	0.9	0.7	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-10A	03/26/08	–	–	–	1.1	0.6	**32**	<0.5	<0.5	<0.5	<10
WR-MW-10A	10/07/08	–	–	–	**22**	2.3	2.1	<0.5	<0.5	<0.5	<10
WR-MW-10A	04/08/09	–	–	–	**21**	4.4	**9.5**	<0.5	<0.5	<0.5	<10
WR-MW-10A	09/28/09	–	–	–	**15**	3.1	**8.1**	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/24/10	–	–	–	**17**	1.7	2.8	<0.5	<0.5	<0.5	<10
WR-MW-10A	01/27/11	–	–	–	**25**	3.0	4.1	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/21/11	–	–	–	**17**	2.2	**7.8**	<0.5	<0.5	<0.5	<10
WR-MW-10A	01/11/12	–	–	–	**23**	3.4	2.4	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/27/12	–	–	–	**23**	2.4	1.7	<0.5	<0.5	<0.5	<10
WR-MW-10A	01/04/13	–	–	–	**18**	3.5	4.9	<0.5	<0.5	<0.5	<10
WR-MW-10A	06/26/13	–	–	–	**14**	2.3	2.3	<0.5	<0.5	<0.5	<10
WR-MW-10A	12/04/13	–	–	–	**23**	2.6	2.2	<0.5	<0.5	<0.5	<10
WR-MW-10A	07/01/14	–	–	–	**17**	2.3	1.9	<0.5	<0.5	<0.5	<10
WR-MW-10A	11/05/14	–	–	–	**14**	2.3	2.8	<0.5	<0.5	<0.5	<10
WR-MW-10A	09/28/16	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/21/16	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/28/17	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/19/17	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/14/18	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/14/18	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/25/19	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/30/19	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	05/07/20	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	11/18/20	–	–	–	**7.4**	1.6	4.0	<0.2	<0.2	<0.2	<10 J
WR-MW-10A	12/16/21	–	–	–	1.6	0.96	3.4	0.16 U	0.16 U	0.16 U	–
WR-MW-11A	09/03/04	–	–	–	1.5 /J+	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	12/08/04	–	–	–	3.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	03/02/05	–	–	–	2.1	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/07/05	–	–	–	3.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	09/14/05	–	–	–	3.8	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	12/08/05	–	–	–	**5**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	03/14/06	–	–	–	4.3	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/27/06	–	–	–	4.7	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	09/26/06	–	–	–	**6**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	12/13/06	–	–	–	3.9	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	03/26/07	–	–	–	4.6	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/11/07	–	–	–	4.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	09/25/07	–	–	–	4.4	<0.5	<0.5	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-11A	12/13/07	–	–	–	**5.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	03/26/08	–	–	–	**6.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	10/07/08	–	–	–	**9.2**	<0.5	0.6	<0.5	<0.5	<0.5	<10
WR-MW-11A	04/08/09	–	–	–	**5.5**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	09/28/09	–	–	–	**9.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/24/10	–	–	–	**9.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	01/27/11	–	–	–	**12**	<0.5	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/21/11	–	–	–	**10**	<0.5	0.7	<0.5	<0.5	<0.5	<10
WR-MW-11A	01/11/12	–	–	–	**10**	<0.5	0.9	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/26/12	–	–	–	**10**	<0.5	1.5	<0.5	<0.5	<0.5	<10
WR-MW-11A	01/03/13	–	–	–	**9.9**	<0.5	2.2	<0.5	<0.5	<0.5	<10
WR-MW-11A	06/25/13	–	–	–	**7.9**	<0.5	2.1	<0.5	<0.5	<0.5	<10
WR-MW-11A	12/03/13	–	–	–	**9.5**	<0.5	2.0	<0.5	<0.5	<0.5	<10
WR-MW-11A	07/01/14	–	–	–	**8.6**	<0.5	2.2	<0.5	<0.5	<0.5	<10
WR-MW-11A	11/05/14	–	–	–	**7.3**	<0.5	2.0	<0.5	<0.5	<0.5	<10
WR-MW-11A	09/28/16	–	–	–	2.1	<0.2 J	0.5	<0.2	<0.2	<0.4	42
WR-MW-11A	12/21/16	–	–	–	**7.3**	0.5 J	2.1	<0.2	<0.2	<0.4	26
WR-MW-11A	06/28/17	–	–	–	**7.1 J**	0.4 J	2.1 J	<0.4	<0.4	<0.4	1.3 J
WR-MW-11A	12/19/17	–	–	–	**5.1 J**	0.5 J	2.2	<0.4	<0.4	<0.4	5.9 J
WR-MW-11A	12/14/18	–	–	–	2.5	0.22	0.69	<0.5	<0.5	<0.5	<5 UJ
WR-MW-11A	06/25/19	–	–	–	**6.3**	0.2	1.7	<0.4	<0.4	<0.4	<1.0
WR-MW-11A	12/30/19	–	–	–	**5.2 J**	0.2 J	0.8 J	<0.4	<0.4	<0.4	<4.0
WR-MW-11A	05/07/20	–	–	–	3.8	0.3	0.7	<0.4	<0.4	<0.4	<4.0 UJ
WR-MW-11A	11/18/20	–	–	–	**5.1**	0.21	0.43	<0.2	<0.2	<0.2	<10
WR-MW-11A	12/16/21	–	–	–	2.4	0.10 J	0.16 U	0.16 U	0.16 U	0.16 U	–
WR-MW-12A	09/20/05	–	–	–	**75**	**6**	2.8	<0.5	<0.5	<0.5	<10
WR-MW-12A	12/06/05	–	–	–	**87**	**5.5**	0.9	<0.5	<0.5	<0.5	<10
WR-MW-12A	03/14/06	–	–	–	**110**	**6.6**	<0.5	<0.5	<0.5	<0.5	<10
WR-MW-12A	06/27/06	–	–	–	**99**	**5.9**	**21**	<0.5	<0.5	<0.5	<10
WR-MW-12A	09/26/06	–	–	–	**74**	**7.2**	**23**	<0.5	<0.5	<0.5	<10
WR-MW-12A	12/13/06	–	–	–	**64**	**5**	**19**	<0.7	<0.7	<0.7	<14
WR-MW-12A	03/26/07	–	–	–	**94**	**5.8**	**13**	<0.5	<0.5	<0.5	<0.5
WR-MW-12A	06/11/07	–	–	–	**50**	3.1	**39**	<0.5	<0.5	<0.5	<0.5
WR-MW-12A	09/25/07	–	–	–	**63**	3.8	**11**	<0.5	<0.5	<0.5	<10
WR-MW-12A	12/13/07	–	–	–	**49**	2.5	**7.8**	<0.5	<0.5	<0.5	<10
WR-MW-12A	03/26/08	–	–	–	**88**	**5.3**	**13**	<0.5	<0.5	<0.5	<10
WR-MW-12A	10/07/08	–	–	–	**73**	**5.2**	**13**	<0.5	<0.5	<0.5	<10
WR-MW-12A	04/08/09	–	–	–	**39**	**5**	**24**	<0.5	<0.5	<0.5	<10

Table B-1. Historical Volatile Organic Compound Results

Analyte		TPH-Gas (µg/L)	TPH-Diesel (µg/L)	TPH-Oil (µg/L)	PCE (µg/L)	TCE (µg/L)	cis-1,2-DCE (µg/L)	trans-1,2- DCE (µg/L)	1,1-DCE (µg/L)	1,1,1-TCA (µg/L)	MEK (µg/L)
Analyte Group		TPH	TPH	TPH	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	N/A	N/A	5	5	6	10	6	200	N/A
Historical MCL Exceedances?		No	No	No	Yes	Yes	Yes	No	No	No	No
Well ID	**Sampled**										
WR-MW-12A	09/28/09	–	–	–	**55**	**5.2**	**12**	<0.5	<0.5	<0.5	<10
WR-MW-12A	06/24/10	–	–	–	**41**	**9.9**	**29**	<0.5	<0.5	<0.5	<10
WR-MW-12A	01/27/11	–	–	–	**35**	**5.3**	**25**	<0.5	<0.5	<0.5	<10
WR-MW-12A	06/21/11	–	–	–	**21**	2	**24**	<0.5	<0.5	<0.5	<10
WR-MW-12A	01/11/12	–	–	–	**23**	2.6	**24**	<0.5	<0.5	<0.5	<10
WR-MW-12A	06/27/12	–	–	–	**25**	2.6	**24**	<0.5	<0.5	<0.5	<10
WR-MW-12A	01/04/13	–	–	–	**22**	3.1	**21**	<0.5	<0.5	<0.5	<10
WR-MW-12A	06/26/13	–	–	–	**19**	3.2	**16**	<0.5	<0.5	<0.5	<10
WR-MW-12A	12/04/13	–	–	–	**25**	3.2	**14**	<0.5	<0.5	<0.5	<10
WR-MW-12A	07/01/14	–	–	–	**19**	3.3	**11**	<0.5	<0.5	<0.5	<10
WR-MW-12A	11/05/14	–	–	–	**12**	3.2	**11**	<0.5	<0.5	<0.5	<10
WR-MW-12A	09/28/16	–	–	–	0.9	0.7	**26**	0.2 J	<0.2	<0.4	39
WR-MW-12A	12/21/16	–	–	–	3.1	1	**19**	0.1 J	<0.2	<0.4	29
WR-MW-12A	06/28/17	–	–	–	1.5	0.8	**24**	0.2 J	<0.4	<0.4	1.0 J
WR-MW-12A	12/19/17	–	–	–	1.5	1.0	**16**	0.2 J	<0.4	<0.4	5.1 J
WR-MW-12A	06/14/18	–	–	–	1.9	1.0	**10**	0.1 J	<0.4	<0.4	<4.0
WR-MW-12A	06/14/18	–	–	–	1.9	1.1	**10**	0.2 J	<0.4	<0.4	0.8 J
WR-MW-12A	12/14/18	–	–	–	0.63	1.3	**11**	<0.5	<0.5	<0.5	<5 UJ
WR-MW-12A	06/25/19	–	–	–	1.6	1.0	**14**	0.2	<0.4	<0.4	0.6
WR-MW-12A	12/30/19	–	–	–	1.4	1.6	**11**	0.2	<0.4	<0.4	<4.0
WR-MW-12A	05/07/20	–	–	–	1.4	1.8	**11**	0.2	<0.4	<0.4	<4.0 UJ
WR-MW-12A	11/18/20	–	–	–	1.4	1.7	**11**	0.19	<0.2	<0.2	<10
WR-MW-12A	12/16/21	–	–	–	0.34 J	0.42 J	**7**	0.16 U	0.16 U	0.16 U	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-IW-01	10/02/02	<20 J/UD	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	–	<1.0 U/D	<1.0 U/D
WR-IW-01	11/11/03	440	<13	<13	<25	<13	<25	<13	970,000	<13	<13
WR-IW-01	02/10/04	1,100	<13	<13	<25	<13	<25	<13	47,000	<13	<13
WR-IW-02	10/02/02	<20 J/UD	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	–	8.8 /D	<1.0 U/D
WR-IW-02	11/11/03	420	<13	<13	<25	<13	<25	<13	1,500,000	<13	<13
WR-IW-03	10/02/02	<20 J/UD	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	<1.0 U/D	–	<1.0 U/D	<1.0 U/D
WR-IW-03	11/11/03	670	<13	<13	<25	<13	<25	<13	<25,000	<13	<13
WR-IW-03	02/10/04	3,600	<20	<20	<40	<20	<40	<20	<40,000	<20	<20
WR-IW-04	10/02/02	<20 J/UD	<1.0 U/D	0.19 J/D	0.64 J/D	<1.0 U/D	<1.0 U/D	0.53 J/D	–	<1.0 U/D	<1.0 U/D
WR-IW-04	11/11/03	400	<13	<13	<25	<13	<25	<13	2,100,000	<13	<13
WR-MW-01	07/27/01	<20 U	<0.4 U	<0.5 U	<5 U	<0.4 U	<1 U	<0.5 U	–	<10 U	<5 U
WR-MW-01	01/03/02	–	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–	<0.5 U/S	<0.5 U/S
WR-MW-01	01/03/02	–	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–	<0.5 U/S	<0.5 U/S
WR-MW-01	04/18/02	<50 U/D	**1.6 J/D**	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	–	–	1.3 J/D
WR-MW-01	08/13/02	<50 D U	<2.5 D U	<2.5 D U	<2.5 D U	<2.5 D U	<2.5 D U	<2.5 D U	–	<2.5 D U	<2.5 D U
WR-MW-01	08/13/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-01	11/14/02	<10 U/UJ	<0.50 U	<0.50 U	<0.50 U	<0.50 U/UJ	<0.50 U/UJ	<0.50 U	–	<0.50 U/UJ	0.31 J
WR-MW-01	02/13/03	31	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-01	02/13/03	33	<0.5 U	<0.5 U	<1.0 U	<0.5 U	1.0	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-01	06/26/03	43	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	1.5	<0.5 U
WR-MW-01	06/26/03	38	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	1.3	<0.5 U
WR-MW-01	08/06/03	60	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.2	<0.5
WR-MW-01	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	5.4	<0.5
WR-MW-01	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	5.4	<0.5
WR-MW-01	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	9.1	<0.5
WR-MW-01	05/25/04	18	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	8.0	<0.5
WR-MW-01	09/02/04	12	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	10	<0.5
WR-MW-01	12/08/04	12	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	**13**	<0.5
WR-MW-01	03/01/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	9.0	<0.5
WR-MW-01	03/01/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	8.8	<0.5
WR-MW-01	06/07/05	420	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<33,000	4.0	<0.5
WR-MW-01	06/07/05	390	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<33,000	4.2	<0.5
WR-MW-01	09/14/05	<20	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	–	6.9	<1.0
WR-MW-01	12/06/05	72	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	5.4	<0.5
WR-MW-01	03/14/06	93	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	2.6	<0.5
WR-MW-01	06/26/06	<20	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2,000	4.3	<1.0
WR-MW-01	06/26/06	<20	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2,000	4.1	<1.0
WR-MW-01	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<1.0	<1,000	2.8	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-01	09/26/06	<50	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<5,000	<2.5	<2.5
WR-MW-01	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.5	<0.5
WR-MW-01	03/27/07	<50	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<5,000	2.7	<2.5
WR-MW-01	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.1	<0.5
WR-MW-01	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.0	<0.5
WR-MW-01	09/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.1	<0.5
WR-MW-01	09/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.2	<0.5
WR-MW-01	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.4	<0.5
WR-MW-01	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.3	<0.5
WR-MW-01	03/27/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.2	<0.5
WR-MW-01	03/27/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.1	<0.5
WR-MW-01	10/08/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.8	<0.5
WR-MW-01	10/08/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.7	<0.5
WR-MW-01	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.5	<0.5
WR-MW-01	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/26/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/26/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	01/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01	09/28/16	90	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.1 J
WR-MW-01	12/21/16	93	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-01	06/28/17	30 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-01	12/19/17	110	<0.4	<0.4	<0.4	<0.4	<0.8	<0.4	17 J	<0.4	<0.4
WR-MW-01	06/14/18	17	0.1 J	<0.4	<0.4	<0.4	<0.8	<0.2	–	<0.2	<0.4
WR-MW-01	12/14/18	96 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-01	12/14/18	100 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-01	06/25/19	24 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-01	12/30/19	83 J	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-01	12/30/19	80 J	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-01	05/07/20	21 J	<0.2 UJ	<0.4 UJ	<0.4 UJ	<1.0 UJ	<0.8 UJ	<0.4 UJ	–	<0.4 UJ	<0.2 UJ
WR-MW-01	05/07/20	27	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-01	11/18/20	51 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-01	11/18/20	48	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-01	12/16/21	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	0.28 J	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-01B	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	0.27 J	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-01B	02/09/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-01B	05/29/03	<10 U	<0.5 U	0.7 /J+	1.4 /J+	<0.5 U	<1.0 U	1.6 /J+	–	<0.5 U	<0.5 U
WR-MW-01B	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	05/24/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-01B	09/02/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.5	<0.5
WR-MW-01B	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	09/13/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-01B	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-01B	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-01B	06/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-01B	06/23/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	02/14/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	06/20/11	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	01/10/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	11/04/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-01B	06/26/17	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	06/28/17	37 J	0.3 J	<0.4	<0.4	<0.2	<0.4	<0.4	<40	0.2 J	<0.2
WR-MW-01B	12/19/17	100	0.5	<0.4	<0.4	<0.2	<0.8	<0.4	<80	0.2 J	<0.3 J
WR-MW-01B	12/14/18	93 J	0.35	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	0.21
WR-MW-01B	06/25/19	36 J	0.4	<0.2	<0.4	<0.4	<0.8	<0.4	–	0.2	0.2
WR-MW-01B	06/25/19	34 J	0.3	<0.2	<0.4	<0.4	<0.8	<0.4	–	0.1	0.7
WR-MW-01B	12/30/19	43 UJ	0.4	<0.4	<0.4	<0.4	<0.8	<0.4	–	0.2	0.2
WR-MW-01B	05/07/20	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	11/18/20	63 J	0.23	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	0.11
WR-MW-01B	12/16/21	8 U	0.27 J	0.30 U	0.30 U	0.16 U	0.16 U	0.16U	–	–	0.16 U
WR-MW-02	07/27/01	<20 U	<0.4 U	<0.5 U	<5 U	<0.4 U	<1 U	<0.5 U	–	<10 U	<5 U
WR-MW-02	01/03/02	–	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–	<0.5 U/S	<0.5 U/S
WR-MW-02	04/18/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	–	<0.50 J/U
WR-MW-02	04/18/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	–	<0.50 J/U
WR-MW-02	08/13/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-02	11/14/02	<10 U/UJ	<0.50 U	<0.50 U	<0.50 U	<0.50 U/UJ	<0.50 U/UJ	<0.50 U	–	<0.50 U/UJ	0.18 J
WR-MW-02	02/08/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-02	05/27/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-02	08/05/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	05/25/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-02	09/03/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	12/07/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	09/25/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-02	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	09/28/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	1.6
WR-MW-02	07/01/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	01/27/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/27/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	01/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	06/26/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	12/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	07/01/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	11/04/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-02	09/28/16	80	<0.2	<0.2	<0.4	0.2 J	<0.4	<0.2	–	<0.2	<0.2
WR-MW-02	12/21/16	92 J	<0.2 J	<0.2 J	<0.4 J	0.2 J	<0.4 J	<0.2 J	–	<0.2 J	<0.2 J
WR-MW-02	06/28/17	17 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2
WR-MW-02	12/19/17	120	<0.2	<0.4	<0.4	<0.2	<0.8	<0.4	<80	<0.4	<0.2
WR-MW-02	12/14/18	87 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-02	12/14/18	25	<0.2	<0.4	<0.4	<0.4	<0.8	<0.2	–	<0.2	<0.4
WR-MW-02	06/25/19	21 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	0.3
WR-MW-02	12/30/19	34 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-02	05/07/20	16	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-02	11/18/20	27 J	<0.2	<0.3	<0.2	<0.5	<0.5	<0.2	–	<0.3	<0.3
WR-MW-02	12/16/21	–	–	–	–	–	–	–	–	–	–
WR-MW-03	07/27/01	<20 U	<0.4 U	<0.5 U	<5 U	<0.4 U	<1 U	<0.5 U	–	<10 U	<5 U
WR-MW-03	01/03/02	–	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	<0.5 U/S	–	<0.5 U/S	<0.5 U/S
WR-MW-03	04/18/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	–	<0.50 J/U
WR-MW-03	08/13/02	2.2 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-03	11/13/02	1.8 J	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	0.24 J
WR-MW-03	02/08/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-03	05/27/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-03	08/05/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-03	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-03	12/07/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-03	12/08/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-03	12/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-03	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-03	10/07/08	39	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	10/03/02	2.6 J	<0.50 U	0.19 J	0.77 /J+	0.078 J	<0.50 U	0.47 J	–	<0.50 U	<0.50 U
WR-MW-04A	02/08/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-04A	05/22/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-04A	08/05/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	12/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.7	<0.5
WR-MW-04A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.5	<0.5
WR-MW-04A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.9	<0.5
WR-MW-04A	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.2	<0.5
WR-MW-04A	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/11/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	04/08/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/23/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	0.6
WR-MW-04A	02/14/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	01/10/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	11/04/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04A	09/28/16	49	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	0.8
WR-MW-04A	12/21/16	43	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-04A	06/28/17	30 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-04A	12/19/17	70 Q	<0.4	<0.4	<0.4	<0.2	<0.8	<0.4	22 J	<0.4	<0.4
WR-MW-04A	12/19/17	62	<0.2	<0.4	<0.4	<0.2	<0.8	<0.4	<80	<0.4	<0.2
WR-MW-04A	06/14/18	22	0.1 J	<0.2	<0.4	<0.4	<0.4	<0.2	–	<0.2	<0.2
WR-MW-04A	12/14/18	120 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	0.11
WR-MW-04A	06/25/19	25 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-04A	12/30/19	20 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-04A	05/07/20	29	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-04A	11/18/20	90 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-04A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-04B	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	0.090 J
WR-MW-04B	02/09/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-04B	05/22/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-04B	08/05/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04B	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-04B	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	10/02/02	<50 J/UD	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	<2.5 U/D	–	<2.5 U/D	<2.5 U/D
WR-MW-05A	02/12/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-05A	06/26/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-05A	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.8	<0.5
WR-MW-05A	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.7	<0.5
WR-MW-05A	05/25/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-05A	05/25/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-05A	09/02/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	5.1 /J+	<0.5
WR-MW-05A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	10	<0.5
WR-MW-05A	03/01/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	11	<0.5
WR-MW-05A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	6.4	<0.5
WR-MW-05A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	3.3	<0.5
WR-MW-05A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	3.2	<0.5
WR-MW-05A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	2.7	<0.5
WR-MW-05A	03/14/06	45	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	2.7	<0.5
WR-MW-05A	03/14/06	45	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	2.8	<0.5
WR-MW-05A	03/27/06	<50	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<5,000	<2.5	8.0
WR-MW-05A	03/27/06	<50	<2.5	<2.5	<5.0	<2.5	<5.0	<2.5	<5,000	<0.5	5.7
WR-MW-05A	06/26/06	88	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.9	<0.5
WR-MW-05A	09/26/06	180	<1.0	<1.0	<2.0	<1.0	<2.0	<1.0	<2,000	<1.0	1.0

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-05A	12/13/06	39	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	4.2
WR-MW-05A	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	8.2
WR-MW-05A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	4.5
WR-MW-05A	12/13/07	<40	<2.0	<2.0	<4.0	<2.0	<4.0	<2.0	<4,000	<2.0	8.9
WR-MW-05A	03/27/08	<40	<2.0	<2.0	<4.0	<2.0	<4.0	<2.0	<4,000	<2.0	4.9
WR-MW-05A	10/08/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	0.9
WR-MW-05A	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	06/23/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	0.5
WR-MW-05A	01/26/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	0.8
WR-MW-05A	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	0.8
WR-MW-05A	01/10/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	11/04/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05A	09/28/16	68	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	0.8
WR-MW-05A	12/21/16	62	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-05A	06/28/17	28 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2
WR-MW-05A	12/19/17	94	<0.2	<0.4	<0.4	<0.2	<0.8	<0.4	<80	<0.4	<0.2
WR-MW-05A	06/14/18	18 J	0.2 J	<0.2	<0.4	<0.4	<0.4	<0.2	–	<0.2	<0.2
WR-MW-05A	12/14/18	44 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-05A	06/25/19	31 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	0.2
WR-MW-05A	12/30/19	3.7 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-05A	05/07/20	23	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-05A	11/18/20	11 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-05A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-05B	09/30/02	<10 J/U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	0.14 J
WR-MW-05B	02/09/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-05B	05/29/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-05B	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05B	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05B	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05B	12/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-05B	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	0.16 J	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-06A	02/08/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-06A	05/22/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-06A	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	12/09/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	12/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	09/30/02	<10 J/U	<0.50 U	<0.50 U	<0.50 U	0.74	<0.50 U	<0.50 U	–	<0.50 U	0.12 J
WR-MW-06B	02/09/03	<10 U	<0.5 U	<0.5 U	<1.0 U	1.6	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-06B	05/22/03	<10 U	<0.5 U	<0.5 U	<1.0 U	1.8	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-06B	08/06/03	<10	<0.5	<0.5	<1.0	1.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	11/11/03	<10	<0.5	<0.5	<1.0	1.9	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	12/09/04	<10	<0.5	<0.5	<1.0	1.3	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	12/07/05	<10	<0.5	<0.5	<1.0	1.1	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	12/13/06	<10	<0.5	<0.5	<1.0	1.2	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-06B	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-07A	02/12/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-07A	05/28/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-07A	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	05/24/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-07A	09/03/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	12/07/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	12/08/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.7	<0.5
WR-MW-07A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.6	<0.5
WR-MW-07A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.6	<0.5
WR-MW-07A	09/25/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	06/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-07A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	04/07/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-07A	01/26/11	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/20/11	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	01/10/12	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/26/12	–	–	–	–	–	–	–	–	–	–
WR-MW-08A	10/03/02	<10 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	<0.50 U	–	<0.50 U	<0.50 U
WR-MW-08A	02/08/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-08A	05/27/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	<0.5 U	<0.5 U
WR-MW-08A	08/05/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	11/10/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	05/25/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-08A	09/03/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-08A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-08A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-08A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	12/13/06	27	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/11/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	01/27/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-08A	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-08A	09/28/16	96	<0.2	<0.2	<0.4	1.3	<0.4	<0.2	–	<0.2	0.2 J
WR-MW-08A	12/21/16	46	<0.2	0.5	<0.4	1.2	<0.4	<0.2 J	–	<0.2	0.2
WR-MW-08A	06/28/17	<5.0 J	<0.2	0.3 J	<0.4	0.3 J	<0.4	0.2 J	<40	<0.4	<0.2
WR-MW-08A	12/19/17	38	<0.2	<0.4	<0.4	<0.2	<0.8 U	<0.4	<80	<0.4	<0.2
WR-MW-08A	06/14/18	21 J	<0.2	<0.2	<0.4	<0.4	<0.4	<0.2	–	<0.2	<0.2
WR-MW-08A	12/14/18	110 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	0.11
WR-MW-08A	06/25/19	24 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-08A	12/30/19	<4.0 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-08A	05/07/20	27	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-08A	11/18/20	8.4 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-08A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-09A	10/03/02	<20 U/D	0.17 J/D	0.10 J/D	<1.0 U/D	0.22 J/D	0.41 J/D	<1.0 U/D	–	0.21 J/D	0.25 J/D
WR-MW-09A	02/12/03	<10 U	<0.5 U	<0.5 U	<1.0 U	<0.5 U	<1.0 U	<0.5 U	–	0.5	<0.5 U
WR-MW-09A	06/26/03	<10 U	<0.5 U	<0.5 U	<1.0 U	0.8	<1.0 U	<0.5 U	–	1.0	<0.5 U
WR-MW-09A	08/06/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.9	<0.5
WR-MW-09A	11/11/03	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.7	<0.5
WR-MW-09A	02/10/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	5.6	<0.5
WR-MW-09A	05/24/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	4.1	<0.5
WR-MW-09A	09/02/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	4.2	<0.5
WR-MW-09A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.3 /J+	<0.5
WR-MW-09A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.1	<0.5
WR-MW-09A	03/01/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	3.2	<0.5
WR-MW-09A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	4.4	<0.5
WR-MW-09A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	4.9	<0.5
WR-MW-09A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	10	<0.5
WR-MW-09A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	0.9	<0.5
WR-MW-09A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	2.2	<0.5
WR-MW-09A	06/26/06	940	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	4.1	<0.5
WR-MW-09A	09/26/06	660	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	3.2	<0.5
WR-MW-09A	12/13/06	84	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	3.0	<0.5
WR-MW-09A	03/27/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.2	<0.5
WR-MW-09A	07/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.4	<0.5
WR-MW-09A	09/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.3	<0.5
WR-MW-09A	12/12/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.7	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-09A	10/08/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.4	<0.5
WR-MW-09A	04/09/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.7	<0.5
WR-MW-09A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	01/26/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	06/20/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	01/10/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	06/30/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	11/04/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-09A	09/28/16	49	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	0.9
WR-MW-09A	12/21/16	59 J	<0.2 J	<0.2 J	<0.4 J	<0.2 J	<0.4 J	<0.2 J	–	<0.2 J	<0.2 J
WR-MW-09A	12/21/16	60	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-09A	06/28/17	34 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2
WR-MW-09A	12/19/17	95	<0.2	<0.4	<0.4	<0.2	<0.8	<0.4	<80	<0.4	<0.2
WR-MW-09A	06/14/18	18	<0.2	<0.2	<0.4	<0.4	<0.4	<0.2	–	<0.2	<0.2
WR-MW-09A	12/14/18	71 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-09A	06/25/19	4.8 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-09A	12/30/19	39 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-09A	05/07/20	24	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-09A	11/18/20	17 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-09A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-10A	09/03/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.8 /J+	<0.5
WR-MW-10A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	2.2 /J+	<0.5
WR-MW-10A	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.7	<0.5
WR-MW-10A	09/13/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	1.1	<0.5
WR-MW-10A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	1.1	<0.5
WR-MW-10A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-10A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	09/25/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	06/11/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.6	<0.5
WR-MW-10A	09/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.5	<0.5
WR-MW-10A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.6	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-10A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.7	<0.5
WR-MW-10A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.4	<0.5
WR-MW-10A	04/08/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	1.1	<0.5
WR-MW-10A	09/28/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	0.6	<0.5
WR-MW-10A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	01/27/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	06/21/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	06/27/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	01/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	06/26/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	12/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	07/01/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-10A	09/28/16	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/21/16	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/28/17	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/19/17	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/14/18	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/14/18	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	06/25/19	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	12/30/19	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	05/07/20	–	–	–	–	–	–	–	–	–	–
WR-MW-10A	11/18/20	18 J	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-10A	12/16/21	8 U	0.08 J	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-11A	09/03/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	12/08/04	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	03/02/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/07/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	09/14/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	12/08/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	12/13/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	03/26/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/11/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-11A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	04/08/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	09/28/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	01/27/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/21/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/26/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	01/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	06/25/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	12/03/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	07/01/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-11A	09/28/16	67	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	0.3 J
WR-MW-11A	12/21/16	74	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-11A	06/28/17	30 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2
WR-MW-11A	12/19/17	170	<0.4	<0.4	<0.4	<0.4	<0.8	<0.4	22 J	<0.4	<0.4
WR-MW-11A	12/14/18	300 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	<0.5
WR-MW-11A	06/25/19	42 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-11A	12/30/19	67 J	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-11A	05/07/20	23	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-11A	11/18/20	8.8	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-11A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U
WR-MW-12A	09/20/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-12A	12/06/05	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	–	<0.5	<0.5
WR-MW-12A	03/14/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	06/27/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	09/26/06	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	12/13/06	<14	<0.7	<0.7	<1.4	<0.7	<1.4	<0.7	<1,400	<0.7	<0.7
WR-MW-12A	03/26/07	<10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5
WR-MW-12A	06/11/07	<10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5
WR-MW-12A	09/25/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	12/13/07	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	03/26/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	10/07/08	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	04/08/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5

Table B-1. Historical Volatile Organic Compound Results

Analyte		Acetone (µg/L)	Benzene (µg/L)	Bromodichloro-methane (µg/L)	Bromoform (µg/L)	Chloroform (µg/L)	Chloromethane (µg/L)	Dibromochloro-methane (µg/L)	Ethanol (µg/L)	MTBE (µg/L)	Toluene (µg/L)
Analyte Group		VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC	VOC
MCL		N/A	1	N/A	N/A	N/A	N/A	N/A	N/A	13	150
Historical MCL Exceedances?		No	Yes	No	No	No	No	No	No	Yes	No
Well ID	**Sampled**										
WR-MW-12A	09/28/09	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	06/24/10	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	01/27/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	06/21/11	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	01/11/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	06/27/12	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	01/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	06/26/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	12/04/13	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	07/01/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	11/05/14	<10	<0.5	<0.5	<1.0	<0.5	<1.0	<0.5	<1,000	<0.5	<0.5
WR-MW-12A	09/28/16	76	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	0.4 J
WR-MW-12A	12/21/16	83	<0.2	<0.2	<0.4	<0.2	<0.4	<0.2	–	<0.2	<0.2
WR-MW-12A	06/28/17	6.5 J	<0.2	<0.4	<0.4	<0.2	<0.4	<0.4	<40	<0.4	<0.2
WR-MW-12A	12/19/17	130	<0.2	<0.4	<0.4	<0.2	<0.8	<0.4	<80	<0.4	<0.2
WR-MW-12A	06/14/18	7.8 J	0.1 J	<0.4	<0.4	<0.4	<0.8	<0.2	–	<0.2	<0.4
WR-MW-12A	06/14/18	9.4 J	0.1 J	<0.2	<0.4	<0.4	<0.4	<0.2	–	<0.2	<0.2
WR-MW-12A	12/14/18	72 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	–	<0.5	0.11
WR-MW-12A	06/25/19	28 J	<0.2	<0.2	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-12A	12/30/19	17 UJ	<0.2	<0.4	<0.4	<0.4	<0.8	<0.4	–	<0.4	<0.2
WR-MW-12A	05/07/20	21	<0.2	<0.4	<0.4	<1.0	<0.8	<0.4	–	<0.4	<0.2
WR-MW-12A	11/18/20	12	<0.2	<0.2	<0.3	<0.2	<0.5	<0.2	–	<0.3	<0.2
WR-MW-12A	12/16/21	8 U	0.16 U	0.30 U	0.30 U	0.16 U	0.16 U	0.16 U	–	–	0.16 U

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-IW-01	10/02/02	<1.0 /D	<1.0 U/D	–	–	–
WR-IW-01	11/11/03	<13	–	–	–	–
WR-IW-01	02/10/04	<13	–	–	–	–
WR-IW-02	10/02/02	<1.0 /D	<1.0 U/D	–	–	–
WR-IW-02	11/11/03	<13	–	–	–	–
WR-IW-03	10/02/02	<1.0 /D	<1.0 U/D	–	–	–
WR-IW-03	11/11/03	<13	–	–	–	–
WR-IW-03	02/10/04	<20	–	–	–	–
WR-IW-04	10/02/02	<1.0 /D	<1.0 U/D	–	–	–
WR-IW-04	11/11/03	<13	–	–	–	–
WR-MW-01	07/27/01	<10	<5 U	–	–	–
WR-MW-01	01/03/02	<0.5/S	<0.5 U/S	<10 U/S	<10 U/S	<10 U/S
WR-MW-01	01/03/02	<0.5/S	<0.5 U/S	<10 U/S	<10 U/S	<10 U/S
WR-MW-01	04/18/02	<2.5/D	2.4 J/D	<10 U	<10 U	<10 U
WR-MW-01	08/13/02	<2.5 D	<2.5 D U	<10 U	<10 U	<10 U
WR-MW-01	08/13/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-01	11/14/02	<0.50U/J	0.23 J/J+	–	–	–
WR-MW-01	02/13/03	<0.5	–	–	–	–
WR-MW-01	02/13/03	<0.5	–	–	–	–
WR-MW-01	06/26/03	<0.5	–	–	–	–
WR-MW-01	06/26/03	<0.5	–	–	–	–
WR-MW-01	08/06/03	<0.5	–	780 /D	<250 /D	520 /D
WR-MW-01	11/11/03	<0.5	–	130 b	<97	150
WR-MW-01	11/11/03	<0.5	–	<96	<96	140
WR-MW-01	02/10/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-01	05/25/04	<0.5	–	170 b/J-	–	–
WR-MW-01	09/02/04	<0.5	–	57	<20	22
WR-MW-01	12/08/04	<0.5	–	<9.5	<9.5	<9.5
WR-MW-01	03/01/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-01	03/01/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-01	06/07/05	<0.5	–	5,800	<1,900	6,100
WR-MW-01	06/07/05	<0.5	–	5,200	<1,900	4,100
WR-MW-01	09/14/05	<1.0	–	830	<240	390
WR-MW-01	12/06/05	<0.5	–	1,100	<480	<480
WR-MW-01	03/14/06	<0.5	–	<4,800	<4,800	<4,800
WR-MW-01	06/26/06	<1.0	–	410	<9.4	<9.4
WR-MW-01	06/26/06	<1.0	–	410	<9.4	<9.4
WR-MW-01	09/26/06	<0.5	–	280	<9.4	12

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-01	09/26/06	<2.5	–	280	<9.4	10
WR-MW-01	12/13/06	<0.5	–	80	<9.4	<9.4
WR-MW-01	03/27/07	<2.5	–	100	<19	<19
WR-MW-01	06/12/07	<0.5	–	130	<9.4	<9.4
WR-MW-01	06/12/07	<0.5	–	130	<9.4	<9.4
WR-MW-01	09/26/07	<0.5	–	44	<9.5	<9.5
WR-MW-01	09/26/07	<0.5	–	37	<9.5	<9.5
WR-MW-01	12/13/07	<0.5	<0.5	–	–	–
WR-MW-01	12/13/07	<0.5	<0.5	–	–	–
WR-MW-01	03/27/08	<0.5	<0.5	<9.4	<9.4	<9.4
WR-MW-01	03/27/08	<0.5	<0.5	<9.4	<9.4	<9.4
WR-MW-01	10/08/08	<0.5	<0.5	<9.4	<9.4	<9.4
WR-MW-01	10/08/08	<0.5	<0.5	<9.4	<9.4	<9.4
WR-MW-01	04/09/09	<0.5	<0.5	–	–	–
WR-MW-01	04/09/09	<0.5	<0.5	–	–	–
WR-MW-01	06/24/10	**1.1**	<1.0	–	–	–
WR-MW-01	06/24/10	**0.9**	<1.0	–	–	–
WR-MW-01	01/26/11	<0.5	<1.0	–	–	–
WR-MW-01	01/26/11	<0.5	<1.0	–	–	–
WR-MW-01	06/20/11	<0.5	<1.0	–	–	–
WR-MW-01	06/20/11	<0.5	<1.0	–	–	–
WR-MW-01	01/11/12	<0.5	<1.0	–	–	–
WR-MW-01	01/11/12	<0.5	<1.0	–	–	–
WR-MW-01	06/26/12	**0.5**	<1.0	–	–	–
WR-MW-01	06/26/12	**0.5**	<1.0	–	–	–
WR-MW-01	01/04/13	**0.6**	<1.0	–	–	–
WR-MW-01	01/04/13	**0.6**	<1.0	–	–	–
WR-MW-01	06/25/13	**0.8**	<1.0	–	–	–
WR-MW-01	06/25/13	**0.7**	<1.0	–	–	–
WR-MW-01	12/03/13	**0.8**	<1.0	–	–	–
WR-MW-01	12/03/13	**0.8**	<1.0	–	–	–
WR-MW-01	06/30/14	**0.7**	<1.0	–	–	–
WR-MW-01	06/30/14	**0.6**	<1.0	–	–	–
WR-MW-01	11/05/14	<0.5	<1.0	–	–	–
WR-MW-01	11/05/14	<0.5	<1.0	–	–	–
WR-MW-01	09/28/16	<0.2	<0.4	–	–	–
WR-MW-01	12/21/16	**0.6**	<0.4	–	–	–
WR-MW-01	06/28/17	**0.7**	<0.4	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-01	12/19/17	**0.7**	<0.4	–	–	–
WR-MW-01	06/14/18	**0.6**	<0.4	–	–	–
WR-MW-01	12/14/18	<0.5	<0.5	–	–	–
WR-MW-01	12/14/18	<0.5	<0.5	–	–	–
WR-MW-01	06/25/19	<0.4	<0.4	–	–	–
WR-MW-01	12/30/19	<0.4	<0.4	–	–	–
WR-MW-01	12/30/19	<0.4	<0.4	–	–	–
WR-MW-01	05/07/20	<0.4 UJ	<0.4 UJ	–	–	–
WR-MW-01	05/07/20	<0.4	<0.4	–	–	–
WR-MW-01	11/18/20	<0.3	<0.5	–	–	–
WR-MW-01	11/18/20	<0.3	<0.5	–	–	–
WR-MW-01	12/16/21	–	–	–	–	–
WR-MW-01B	10/03/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-01B	10/03/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-01B	02/09/03	<0.5	–	–	–	–
WR-MW-01B	05/29/03	<0.5	–	–	–	–
WR-MW-01B	08/06/03	<0.5	–	–	–	–
WR-MW-01B	11/10/03	<0.5	–	–	–	–
WR-MW-01B	02/10/04	<0.5	–	–	–	–
WR-MW-01B	05/24/04	<0.5	–	–	–	–
WR-MW-01B	09/02/04	<0.5	–	–	–	–
WR-MW-01B	12/08/04	<0.5	–	–	–	–
WR-MW-01B	03/02/05	<0.5	–	–	–	–
WR-MW-01B	06/07/05	<0.5	–	–	–	–
WR-MW-01B	09/13/05	<0.5	–	–	–	–
WR-MW-01B	12/06/05	<0.5	–	–	–	–
WR-MW-01B	03/14/06	<0.5	–	–	–	–
WR-MW-01B	06/26/06	<0.5	–	–	–	–
WR-MW-01B	09/26/06	<0.5	–	–	–	–
WR-MW-01B	12/13/06	<0.5	–	–	–	–
WR-MW-01B	03/26/07	<0.5	–	–	–	–
WR-MW-01B	06/12/07	<0.5	–	–	–	–
WR-MW-01B	09/25/07	<0.5	–	–	–	–
WR-MW-01B	12/13/07	<0.5	<0.5	–	–	–
WR-MW-01B	03/26/08	<0.5	<0.5	–	–	–
WR-MW-01B	10/07/08	<0.5	<0.5	–	–	–
WR-MW-01B	10/07/08	<0.5	<0.5	–	–	–
WR-MW-01B	04/09/09	<0.5	<0.5	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-01B	06/23/10	<0.5	<0.5	–	–	–
WR-MW-01B	02/14/11	<0.5	<1.0	–	–	–
WR-MW-01B	06/20/11	–	–	–	–	–
WR-MW-01B	01/10/12	<0.5	<1.0	–	–	–
WR-MW-01B	01/03/13	<0.5	<1.0	–	–	–
WR-MW-01B	12/03/13	<0.5	<1.0	–	–	–
WR-MW-01B	11/04/14	<0.5	<1.0	–	–	–
WR-MW-01B	06/26/17	–	–	–	–	–
WR-MW-01B	06/28/17	<0.2	<0.4	–	–	–
WR-MW-01B	12/19/17	<0.2	<0.4	–	–	–
WR-MW-01B	12/14/18	<0.5	<0.5	–	–	–
WR-MW-01B	06/25/19	<0.4	<0.4	–	–	–
WR-MW-01B	06/25/19	<0.4	1.6	–	–	–
WR-MW-01B	12/30/19	<0.4	<0.4	–	–	–
WR-MW-01B	05/07/20	–	–	–	–	–
WR-MW-01B	11/18/20	<0.3	<0.5	–	–	–
WR-MW-01B	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-02	07/27/01	<10	<5 U	–	–	–
WR-MW-02	01/03/02	<0.5/S	<0.5 U/S	<10 U/S	<10 U/S	<10 U/S
WR-MW-02	04/18/02	<0.50	–	<10 U	<10 U	<10 U
WR-MW-02	04/18/02	<0.50	–	<10 U	<10 U	<10 U
WR-MW-02	08/13/02	<0.5	<0.50 U	<10 U	<10 U	<10 U
WR-MW-02	11/14/02	<0.50/J	<0.50 U	–	–	–
WR-MW-02	02/08/03	<0.5	–	–	–	–
WR-MW-02	05/27/03	<0.5	–	–	–	–
WR-MW-02	08/05/03	<0.5	–	<9.7	<9.7	<9.7
WR-MW-02	11/10/03	<0.5	–	<9.5	<9.5	<9.5
WR-MW-02	02/10/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-02	05/25/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-02	09/03/04	<0.5	–	<10	<10	<10
WR-MW-02	12/07/04	<0.5	–	<9.5	<9.5	<9.5
WR-MW-02	03/02/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-02	06/07/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-02	09/14/05	<0.5	–	<10	<10	<10
WR-MW-02	12/06/05	<0.5	–	<9.4	<9.4	<9.4
WR-MW-02	03/14/06	<0.5	–	<9.4	<9.4	<9.4
WR-MW-02	06/27/06	<0.5	–	–	–	–
WR-MW-02	09/25/06	<0.5	–	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-02	12/13/06	<0.5	–	–	–	–
WR-MW-02	03/26/07	**0.8**	–	–	–	–
WR-MW-02	06/12/07	**1.3**	–	–	–	–
WR-MW-02	09/25/07	**1.2**	–	–	–	–
WR-MW-02	12/13/07	**1.2**	<0.5	–	–	–
WR-MW-02	03/26/08	**1.5**	<0.5	–	–	–
WR-MW-02	10/07/08	**0.7**	<0.5	–	–	–
WR-MW-02	04/09/09	**0.6**	<0.5	–	–	–
WR-MW-02	09/28/09	**0.7**	<0.5	–	–	–
WR-MW-02	07/01/10	<0.5	<1.0	–	–	–
WR-MW-02	01/27/11	<0.5	<1.0	–	–	–
WR-MW-02	06/20/11	<0.5	<1.0	–	–	–
WR-MW-02	01/11/12	<0.5	<1.0	–	–	–
WR-MW-02	06/27/12	<0.5	<1.0	–	–	–
WR-MW-02	01/04/13	<0.5	<1.0	–	–	–
WR-MW-02	06/26/13	<0.5	<1.0	–	–	–
WR-MW-02	12/04/13	<0.5	<1.0	–	–	–
WR-MW-02	07/01/14	<0.5	<1.0	–	–	–
WR-MW-02	11/04/14	<0.5	<1.0	–	–	–
WR-MW-02	09/28/16	<0.2	<0.4	–	–	–
WR-MW-02	12/21/16	<0.2 J	<0.4 J	–	–	–
WR-MW-02	06/28/17	<0.2	<0.4	–	–	–
WR-MW-02	12/19/17	<0.2	<0.4	–	–	–
WR-MW-02	12/14/18	<0.5	<0.5	–	–	–
WR-MW-02	12/14/18	<0.4	<0.4	–	–	–
WR-MW-02	06/25/19	<0.4	0.4	–	–	–
WR-MW-02	12/30/19	<0.4	<0.4	–	–	–
WR-MW-02	05/07/20	<0.4	<0.4	–	–	–
WR-MW-02	11/18/20	<0.2	<0.3	–	–	–
WR-MW-02	12/16/21	–	–	–	–	–
WR-MW-03	07/27/01	<10	<5 U	–	–	–
WR-MW-03	01/03/02	<0.5/S	<0.5 U/S	<10 U/S	<10 U/S	<10 U/S
WR-MW-03	04/18/02	<0.50	–	<10 U/R	<10 U	<10 U/R
WR-MW-03	08/13/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-03	11/13/02	<0.50	<0.50 U	–	–	–
WR-MW-03	02/08/03	<0.5	–	–	–	–
WR-MW-03	05/27/03	<0.5	–	–	–	–
WR-MW-03	08/05/03	<0.5	–	<9.9	<9.9	<9.9

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-03	11/10/03	<0.5	–	<9.8	<9.8	<9.8
WR-MW-03	12/07/04	<0.5	–	<9.5	<9.5	<9.5
WR-MW-03	12/08/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-03	12/14/06	<0.5	–	–	–	–
WR-MW-03	12/13/07	<0.5	<0.5	–	–	–
WR-MW-03	10/07/08	<0.5	<0.5	–	–	–
WR-MW-04A	10/03/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-04A	02/08/03	<0.5	–	–	–	–
WR-MW-04A	05/22/03	<0.5	–	–	–	–
WR-MW-04A	08/05/03	<0.5	–	–	–	–
WR-MW-04A	11/10/03	<0.5	–	–	–	–
WR-MW-04A	12/08/04	<0.5	–	–	–	–
WR-MW-04A	12/08/04	<0.5	–	–	–	–
WR-MW-04A	12/07/05	<0.5	–	–	–	–
WR-MW-04A	03/14/06	<0.5	–	–	–	–
WR-MW-04A	06/27/06	<0.5	–	–	–	–
WR-MW-04A	09/26/06	<0.5	–	–	–	–
WR-MW-04A	12/13/06	<0.5	–	–	–	–
WR-MW-04A	03/26/07	<0.5	–	–	–	–
WR-MW-04A	06/11/07	<0.5	–	–	–	–
WR-MW-04A	09/25/07	<0.5	<0.5	–	–	–
WR-MW-04A	12/13/07	<0.5	–	–	–	–
WR-MW-04A	03/26/08	<0.5	<0.5	–	–	–
WR-MW-04A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-04A	04/08/09	<0.5	<0.5	–	–	–
WR-MW-04A	06/23/10	<0.5	<0.5	–	–	–
WR-MW-04A	02/14/11	<0.5	<1.0	–	–	–
WR-MW-04A	06/20/11	<0.5	<1.0	–	–	–
WR-MW-04A	01/10/12	<0.5	<1.0	–	–	–
WR-MW-04A	06/26/12	<0.5	<1.0	–	–	–
WR-MW-04A	01/03/13	<0.5	<1.0	–	–	–
WR-MW-04A	06/25/13	<0.5	<1.0	–	–	–
WR-MW-04A	12/03/13	<0.5	<1.0	–	–	–
WR-MW-04A	06/30/14	<0.5	<1.0	–	–	–
WR-MW-04A	11/04/14	<0.5	<1.0	–	–	–
WR-MW-04A	09/28/16	<0.2	<0.3	–	–	–
WR-MW-04A	12/21/16	<0.2	<0.4	–	–	–
WR-MW-04A	06/28/17	<0.2	<0.4	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-04A	12/19/17	<0.4	<0.4	–	–	–
WR-MW-04A	12/19/17	<0.2	<0.4	–	–	–
WR-MW-04A	06/14/18	<0.2	<0.4	–	–	–
WR-MW-04A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-04A	06/25/19	<0.4	<0.4	–	–	–
WR-MW-04A	12/30/19	<0.4	<0.4	–	–	–
WR-MW-04A	05/07/20	<0.4	<0.4	–	–	–
WR-MW-04A	11/18/20	<0.3	<0.5	–	–	–
WR-MW-04A	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-04B	10/03/02	<0.50	<0.50 U	<10 U	**4.1 J**	<10 U
WR-MW-04B	02/09/03	<0.5	–	–	–	–
WR-MW-04B	05/22/03	<0.5	–	–	–	–
WR-MW-04B	08/05/03	<0.5	–	–	–	–
WR-MW-04B	11/10/03	<0.5	–	–	–	–
WR-MW-04B	12/08/04	<0.5	–	–	–	–
WR-MW-05A	10/02/02	<2.5 /D	<2.5 U/D	<10 U	<10 U	<10 U
WR-MW-05A	02/12/03	<0.5	–	–	–	–
WR-MW-05A	06/26/03	<0.5	–	–	–	–
WR-MW-05A	08/06/03	<0.5	–	<9.5	<9.5	<9.5
WR-MW-05A	08/06/03	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	11/11/03	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	02/10/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	02/10/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	05/25/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	05/25/04	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	09/02/04	<0.5	–	57	<20	22
WR-MW-05A	12/08/04	<0.5	–	<9.5	<9.5	<9.5
WR-MW-05A	03/01/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-05A	06/07/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-05A	09/14/05	<0.5	–	<9.8	<9.8	<9.8
WR-MW-05A	09/14/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-05A	12/06/05	<0.5	–	<9.4	<9.4	<9.4
WR-MW-05A	03/14/06	<0.5	–	<990	<990	<9940
WR-MW-05A	03/14/06	<0.5	–	<940	<940	<940
WR-MW-05A	03/27/06	<2.5	–	–	–	–
WR-MW-05A	03/27/06	<2.5	–	–	–	–
WR-MW-05A	06/26/06	<0.5	–	–	–	–
WR-MW-05A	09/26/06	<1.0	–	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-05A	12/13/06	<0.5	–	–	–	–
WR-MW-05A	06/12/07	<0.5	–	–	–	–
WR-MW-05A	09/25/07	<0.5	–	–	–	–
WR-MW-05A	12/13/07	<2.0	<2.0	–	–	–
WR-MW-05A	03/27/08	<2.0	<2.0	–	–	–
WR-MW-05A	10/08/08	<0.5	<0.5	–	–	–
WR-MW-05A	04/09/09	<0.5	<0.5	–	–	–
WR-MW-05A	06/23/10	**3**	<1.0	–	–	–
WR-MW-05A	01/26/11	**2.4**	<1.0	–	–	–
WR-MW-05A	06/20/11	**2.7**	<1.0	–	–	–
WR-MW-05A	01/10/12	**1.8**	<1.0	–	–	–
WR-MW-05A	06/26/12	**1.3**	<1.0	–	–	–
WR-MW-05A	01/03/13	**0.9**	<1.0	–	–	–
WR-MW-05A	06/25/13	**0.7**	<1.0	–	–	–
WR-MW-05A	12/03/13	**0.9**	<1.0	–	–	–
WR-MW-05A	06/30/14	**1.2**	<1.0	–	–	–
WR-MW-05A	11/04/14	**2.9**	<1.0	–	–	–
WR-MW-05A	09/28/16	**0.5**	<0.4	–	–	–
WR-MW-05A	12/21/16	**0.6**	<0.4	–	–	–
WR-MW-05A	06/28/17	**0.5**	<0.4	–	–	–
WR-MW-05A	12/19/17	**0.7**	<0.4	–	–	–
WR-MW-05A	06/14/18	**1.1**	<0.4	–	–	–
WR-MW-05A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-05A	06/25/19	<0.4	<0.4	–	–	–
WR-MW-05A	12/30/19	**0.7 J**	<0.4	–	–	–
WR-MW-05A	05/07/20	**1**	<0.4	–	–	–
WR-MW-05A	11/18/20	**0.89**	<0.5	–	–	–
WR-MW-05A	12/16/21	**0.58**	0.45 U	–	–	–
WR-MW-05B	09/30/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-05B	02/09/03	<0.5	–	–	–	–
WR-MW-05B	05/29/03	<0.5	–	–	–	–
WR-MW-05B	08/06/03	<0.5	–	–	–	–
WR-MW-05B	11/10/03	<0.5	–	–	–	–
WR-MW-05B	12/08/04	<0.5	–	–	–	–
WR-MW-05B	12/07/05	<0.5	–	–	–	–
WR-MW-05B	12/13/06	<0.5	–	–	–	–
WR-MW-06A	10/03/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-06A	02/08/03	<0.5	–	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-06A	05/22/03	<0.5	–	–	–	–
WR-MW-06A	08/06/03	<0.5	–	–	–	–
WR-MW-06A	11/11/03	<0.5	–	–	–	–
WR-MW-06A	12/09/04	<0.5	–	–	–	–
WR-MW-06A	12/07/05	<0.5	–	–	–	–
WR-MW-06A	12/13/06	<0.5	–	–	–	–
WR-MW-06A	12/13/07	<0.5	<0.5	–	–	–
WR-MW-06A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-06B	09/30/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-06B	02/09/03	<0.5	–	–	–	–
WR-MW-06B	05/22/03	<0.5	–	–	–	–
WR-MW-06B	08/06/03	<0.5	–	–	–	–
WR-MW-06B	11/11/03	<0.5	–	–	–	–
WR-MW-06B	12/09/04	<0.5	–	–	–	–
WR-MW-06B	12/07/05	<0.5	–	–	–	–
WR-MW-06B	12/13/06	<0.5	–	–	–	–
WR-MW-06B	12/13/07	<0.5	<0.5	–	–	–
WR-MW-07A	10/03/02	<0.50	<0.50 U	<10 U	<10 U	<10 U
WR-MW-07A	02/12/03	<0.5	–	–	–	–
WR-MW-07A	05/28/03	<0.5	–	–	–	–
WR-MW-07A	08/06/03	<0.5	–	–	–	–
WR-MW-07A	11/11/03	<0.5	–	–	–	–
WR-MW-07A	02/10/04	<0.5	–	–	–	–
WR-MW-07A	05/24/04	<0.5	–	–	–	–
WR-MW-07A	09/03/04	<0.5	–	–	–	–
WR-MW-07A	12/07/04	<0.5	–	–	–	–
WR-MW-07A	03/02/05	<0.5	–	–	–	–
WR-MW-07A	06/07/05	<0.5	–	–	–	–
WR-MW-07A	09/14/05	<0.5	–	–	–	–
WR-MW-07A	12/08/05	<0.5	–	–	–	–
WR-MW-07A	03/14/06	<0.5	–	–	–	–
WR-MW-07A	06/27/06	<0.5	–	–	–	–
WR-MW-07A	09/25/06	<0.5	–	–	–	–
WR-MW-07A	12/13/06	<0.5	–	–	–	–
WR-MW-07A	03/26/07	<0.5	–	–	–	–
WR-MW-07A	06/12/07	<0.5	–	–	–	–
WR-MW-07A	09/25/07	<0.5	–	–	–	–
WR-MW-07A	12/13/07	<0.5	<0.5	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-07A	03/26/08	<0.5	<0.5	–	–	–
WR-MW-07A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-07A	04/07/09	<0.5	<0.5	–	–	–
WR-MW-07A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-07A	01/26/11	–	–	–	–	–
WR-MW-07A	06/20/11	–	–	–	–	–
WR-MW-07A	01/10/12	–	–	–	–	–
WR-MW-07A	06/26/12	–	–	–	–	–
WR-MW-08A	10/03/02	<0.50	<0.50 U	<10 U	**5.9 J**	<10 U
WR-MW-08A	02/08/03	<0.5	–	–	–	–
WR-MW-08A	05/27/03	<0.5	–	–	–	–
WR-MW-08A	08/05/03	<0.5	–	–	–	–
WR-MW-08A	11/10/03	<0.5	–	–	–	–
WR-MW-08A	02/10/04	<0.5	–	–	–	–
WR-MW-08A	05/25/04	<0.5	–	–	–	–
WR-MW-08A	09/03/04	<0.5	–	–	–	–
WR-MW-08A	12/08/04	<0.5	–	–	–	–
WR-MW-08A	03/02/05	<0.5	–	–	–	–
WR-MW-08A	06/07/05	<0.5	–	–	–	–
WR-MW-08A	09/14/05	<0.5	–	–	–	–
WR-MW-08A	12/06/05	<0.5	–	–	–	–
WR-MW-08A	03/14/06	<0.5	–	–	–	–
WR-MW-08A	06/27/06	<0.5	–	–	–	–
WR-MW-08A	09/26/06	<0.5	–	–	–	–
WR-MW-08A	12/13/06	<0.5	–	–	–	–
WR-MW-08A	03/26/07	<0.5	–	–	–	–
WR-MW-08A	06/11/07	**0.7**	–	–	–	–
WR-MW-08A	09/25/07	**0.9**	–	–	–	–
WR-MW-08A	12/13/07	**1.2**	<0.5	–	–	–
WR-MW-08A	03/26/08	**1.2**	<0.5	–	–	–
WR-MW-08A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-08A	04/09/09	<0.5	<0.5	–	–	–
WR-MW-08A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-08A	01/27/11	<0.5	<1.0	–	–	–
WR-MW-08A	06/20/11	<0.5	<1.0	–	–	–
WR-MW-08A	01/11/12	<0.5	<1.0	–	–	–
WR-MW-08A	06/26/12	<0.5	<1.0	–	–	–
WR-MW-08A	01/03/13	<0.5	<1.0	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-08A	06/25/13	<0.5	<1.0	–	–	–
WR-MW-08A	12/03/13	<0.5	<1.0	–	–	–
WR-MW-08A	06/30/14	<0.5	<1.0	–	–	–
WR-MW-08A	11/05/14	<0.5	<1.0	–	–	–
WR-MW-08A	09/28/16	<0.2	<0.4	–	–	–
WR-MW-08A	12/21/16	<0.2	<0.4	–	–	–
WR-MW-08A	06/28/17	<0.2	<0.4	–	–	–
WR-MW-08A	12/19/17	<0.2	<0.4	–	–	–
WR-MW-08A	06/14/18	<0.2	<0.4	–	–	–
WR-MW-08A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-08A	06/25/19	<0.4	<0.4	–	–	–
WR-MW-08A	12/30/19	<0.4	<0.4	–	–	–
WR-MW-08A	05/07/20	<0.4	<0.4	–	–	–
WR-MW-08A	11/18/20	<0.3	<0.5	–	–	–
WR-MW-08A	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-09A	10/03/02	<1.0 /D	<1.0 U/D	<10 U	<10 U	<10 U
WR-MW-09A	02/12/03	<0.5	–	–	–	–
WR-MW-09A	06/26/03	<0.5	–	–	–	–
WR-MW-09A	08/06/03	<0.5	–	<9.6	<9.6	<9.6
WR-MW-09A	11/11/03	<0.5	–	<9.5	<9.5	<9.5
WR-MW-09A	02/10/04	<0.5	–	<9.6	<9.6	<9.6
WR-MW-09A	05/24/04	<0.5	–	<9.6	<9.6	<9.6
WR-MW-09A	09/02/04	<0.5	–	<10	<10	<10
WR-MW-09A	12/08/04	<0.5	–	<9.5	<9.5	<9.5
WR-MW-09A	12/08/04	<0.5	–	<10	<10	<10
WR-MW-09A	03/01/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-09A	06/07/05	<0.5	–	<9.5	<9.5	<9.5
WR-MW-09A	09/14/05	<0.5	–	<9.7	<9.7	<9.7
WR-MW-09A	12/06/05	<0.5	–	<9.4	<9.4	<9.4
WR-MW-09A	12/06/05	<0.5	–	<9.4	<9.4	<9.4
WR-MW-09A	03/14/06	<0.5	–	<9.4	<9.4	<9.4
WR-MW-09A	06/26/06	<0.5	–	–	–	–
WR-MW-09A	09/26/06	<0.5	–	–	–	–
WR-MW-09A	12/13/06	<0.5	–	–	–	–
WR-MW-09A	03/27/07	<0.5	–	–	–	–
WR-MW-09A	07/12/07	<0.5	–	–	–	–
WR-MW-09A	09/26/07	<0.5	–	–	–	–
WR-MW-09A	12/12/07	<0.5	<0.5	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-09A	10/08/08	<0.5	<0.5	–	–	–
WR-MW-09A	04/09/09	<0.5	<0.5	–	–	–
WR-MW-09A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-09A	01/26/11	<0.5	<1.0	–	–	–
WR-MW-09A	06/20/11	<0.5	<1.0	–	–	–
WR-MW-09A	01/10/12	<0.5	<1.0	–	–	–
WR-MW-09A	06/26/12	**0.9**	<1.0	–	–	–
WR-MW-09A	01/03/13	**0.9**	<1.0	–	–	–
WR-MW-09A	06/25/13	**1.1**	<1.0	–	–	–
WR-MW-09A	12/03/13	**1**	<1.0	–	–	–
WR-MW-09A	06/30/14	**0.8**	<1.0	–	–	–
WR-MW-09A	11/04/14	**0.7**	<1.0	–	–	–
WR-MW-09A	09/28/16	**0.7**	<0.5	–	–	–
WR-MW-09A	12/21/16	**0.6 J**	<0.4 J	–	–	–
WR-MW-09A	12/21/16	**0.6**	<0.4	–	–	–
WR-MW-09A	06/28/17	**0.6**	<0.4	–	–	–
WR-MW-09A	12/19/17	0.5 J	<0.4	–	–	–
WR-MW-09A	06/14/18	**0.6**	<0.4	–	–	–
WR-MW-09A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-09A	06/25/19	0.3	<0.4	–	–	–
WR-MW-09A	12/30/19	0.3	<0.4	–	–	–
WR-MW-09A	05/07/20	**0.5**	<0.4	–	–	–
WR-MW-09A	11/18/20	0.45	<0.5	–	–	–
WR-MW-09A	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-10A	09/03/04	<0.5	–	–	–	–
WR-MW-10A	12/08/04	<0.5	–	–	–	–
WR-MW-10A	03/02/05	<0.5	–	–	–	–
WR-MW-10A	06/07/05	<0.5	–	–	–	–
WR-MW-10A	09/13/05	<0.5	–	–	–	–
WR-MW-10A	12/06/05	<0.5	–	–	–	–
WR-MW-10A	03/14/06	<0.5	–	–	–	–
WR-MW-10A	06/27/06	<0.5	–	–	–	–
WR-MW-10A	09/25/06	<0.5	–	–	–	–
WR-MW-10A	12/13/06	<0.5	–	–	–	–
WR-MW-10A	03/26/07	<0.5	–	–	–	–
WR-MW-10A	06/11/07	<0.5	–	–	–	–
WR-MW-10A	09/26/07	<0.5	–	–	–	–
WR-MW-10A	12/13/07	<0.5	<0.5	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-10A	03/26/08	<0.5	<0.5	–	–	–
WR-MW-10A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-10A	04/08/09	<0.5	<0.5	–	–	–
WR-MW-10A	09/28/09	<0.5	<0.5	–	–	–
WR-MW-10A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-10A	01/27/11	<0.5	<1.0	–	–	–
WR-MW-10A	06/21/11	<0.5	<1.0	–	–	–
WR-MW-10A	01/11/12	<0.5	<1.0	–	–	–
WR-MW-10A	06/27/12	<0.5	<1.0	–	–	–
WR-MW-10A	01/04/13	<0.5	<1.0	–	–	–
WR-MW-10A	06/26/13	<0.5	<1.0	–	–	–
WR-MW-10A	12/04/13	<0.5	<1.0	–	–	–
WR-MW-10A	07/01/14	<0.5	<1.0	–	–	–
WR-MW-10A	11/05/14	<0.5	<1.0	–	–	–
WR-MW-10A	09/28/16	–	–	–	–	–
WR-MW-10A	12/21/16	–	–	–	–	–
WR-MW-10A	06/28/17	–	–	–	–	–
WR-MW-10A	12/19/17	–	–	–	–	–
WR-MW-10A	06/14/18	–	–	–	–	–
WR-MW-10A	12/14/18	–	–	–	–	–
WR-MW-10A	06/25/19	–	–	–	–	–
WR-MW-10A	12/30/19	–	–	–	–	–
WR-MW-10A	05/07/20	–	–	–	–	–
WR-MW-10A	11/18/20	<0.3	<0.5	–	–	–
WR-MW-10A	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-11A	09/03/04	<0.5	–	–	–	–
WR-MW-11A	12/08/04	<0.5	–	–	–	–
WR-MW-11A	03/02/05	<0.5	–	–	–	–
WR-MW-11A	06/07/05	<0.5	–	–	–	–
WR-MW-11A	09/14/05	<0.5	–	–	–	–
WR-MW-11A	12/08/05	<0.5	–	–	–	–
WR-MW-11A	03/14/06	<0.5	–	–	–	–
WR-MW-11A	06/27/06	<0.5	–	–	–	–
WR-MW-11A	09/26/06	<0.5	–	–	–	–
WR-MW-11A	12/13/06	<0.5	–	–	–	–
WR-MW-11A	03/26/07	<0.5	–	–	–	–
WR-MW-11A	06/11/07	<0.5	–	–	–	–
WR-MW-11A	09/25/07	<0.5	–	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-11A	12/13/07	<0.5	<0.5	–	–	–
WR-MW-11A	03/26/08	<0.5	<0.5	–	–	–
WR-MW-11A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-11A	04/08/09	<0.5	<0.5	–	–	–
WR-MW-11A	09/28/09	<0.5	<0.5	–	–	–
WR-MW-11A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-11A	01/27/11	<0.5	<1.0	–	–	–
WR-MW-11A	06/21/11	<0.5	<1.0	–	–	–
WR-MW-11A	01/11/12	<0.5	<1.0	–	–	–
WR-MW-11A	06/26/12	<0.5	<1.0	–	–	–
WR-MW-11A	01/03/13	<0.5	<1.0	–	–	–
WR-MW-11A	06/25/13	<0.5	<1.0	–	–	–
WR-MW-11A	12/03/13	<0.5	<1.0	–	–	–
WR-MW-11A	07/01/14	<0.5	<1.0	–	–	–
WR-MW-11A	11/05/14	<0.5	<1.0	–	–	–
WR-MW-11A	09/28/16	<0.2	<0.4	–	–	–
WR-MW-11A	12/21/16	<0.2	<0.4	–	–	–
WR-MW-11A	06/28/17	<0.2	<0.4	–	–	–
WR-MW-11A	12/19/17	<0.4	<0.8	–	–	–
WR-MW-11A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-11A	06/25/19	<0.4	<0.4	–	–	–
WR-MW-11A	12/30/19	<0.4	<0.4	–	–	–
WR-MW-11A	05/07/20	<0.4	<0.4	–	–	–
WR-MW-11A	11/18/20	<0.3	<0.5	–	–	–
WR-MW-11A	12/16/21	0.16 U	0.45 U	–	–	–
WR-MW-12A	09/20/05	<0.5	–	–	–	–
WR-MW-12A	12/06/05	<0.5	–	–	–	–
WR-MW-12A	03/14/06	<0.5	–	–	–	–
WR-MW-12A	06/27/06	<0.5	–	–	–	–
WR-MW-12A	09/26/06	<0.7	–	–	–	–
WR-MW-12A	12/13/06	<0.5	–	–	–	–
WR-MW-12A	03/26/07	<0.5	<0.5	–	–	–
WR-MW-12A	06/11/07	<0.5	<0.5	–	–	–
WR-MW-12A	09/25/07	<0.5	–	–	–	–
WR-MW-12A	12/13/07	<0.5	<0.5	–	–	–
WR-MW-12A	03/26/08	<0.5	<0.5	–	–	–
WR-MW-12A	10/07/08	<0.5	<0.5	–	–	–
WR-MW-12A	04/08/09	<0.5	<0.5	–	–	–

Table B-1. Historical Volatile Organic Compound Results

Analyte		Vinyl Chloride (µg/L)	Xylenes, Total (µg/L)	4-Methyl phenol (µg/L)	bis(2-Ethylhexyl)-Phthalate (µg/L)	Phenol (µg/L)
Analyte Group		VOC	VOC	SVOC	SVOC	SVOC
MCL		0.5	1750	N/A	4	N/A
Historical MCL Exceedances?		Yes	No	No	Yes	No
Well ID	**Sampled**					
WR-MW-12A	09/28/09	<0.5	<0.5	–	–	–
WR-MW-12A	06/24/10	<0.5	<1.0	–	–	–
WR-MW-12A	01/27/11	<0.5	<1.0	–	–	–
WR-MW-12A	06/21/11	<0.5	<1.0	–	–	–
WR-MW-12A	01/11/12	<0.5	<1.0	–	–	–
WR-MW-12A	06/27/12	<0.5	<1.0	–	–	–
WR-MW-12A	01/04/13	<0.5	<1.0	–	–	–
WR-MW-12A	06/26/13	<0.5	<1.0	–	–	–
WR-MW-12A	12/04/13	<0.5	<1.0	–	–	–
WR-MW-12A	07/01/14	<0.5	<1.0	–	–	–
WR-MW-12A	11/05/14	<0.5	<1.0	–	–	–
WR-MW-12A	09/28/16	**0.6**	<0.4	–	–	–
WR-MW-12A	12/21/16	0.2 J	<0.4	–	–	–
WR-MW-12A	06/28/17	<0.2	<0.4	–	–	–
WR-MW-12A	12/19/17	0.2 J	<0.4	–	–	–
WR-MW-12A	06/14/18	<0.4	<0.4	–	–	–
WR-MW-12A	06/14/18	<0.2	<0.4	–	–	–
WR-MW-12A	12/14/18	<0.5	<0.5	–	–	–
WR-MW-12A	06/25/19	<0.4	<0.4	–	–	–
WR-MW-12A	12/30/19	<0.4	<0.4	–	–	–
WR-MW-12A	05/07/20	<0.4	<0.4	–	–	–
WR-MW-12A	11/18/20	<0.3	<0.5	–	–	–
WR-MW-12A	12/16/21	0.16 U	0.45 U	–	–	–

Notes:
<= Not detected above indicated limit
µg/L= micrograms per liter
Bold/highlight= exceeds State MCL
DCE= dichloroethene
J= Estimated value; (+) high bias (-) low bias
MCL= Maximum Contaminant Level
MEK= methyl ethyl ketone
MTBE= methyl tert-butyl ether
N/A= not applicable
SVOC= Semivolatile organic compound
TCA= trichloroethane
TPH= total petroleum hydrocarbons
TPH=Total Petroleum Hydrocarbons
U= Not detected at or above limit of detection
VOC= Volatile organic compound

Table B-2. Historical Metal Results

Analyte			Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Analyte Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
MCL/Action Level			10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
Historical MCL Exceedances?			Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-01	07/27/01	Yes	7.4	333	4.2	**175**	–	**26.2**	1.4	–	–	4.5 J	<1.0	–	–
WR-MW-01	01/03/02	No	<5 U/S	28 /S	<1 U/S	31 /S	29 /S	<5 U/S	<0.5 U/S	3.4 J/S	<10 U/S	<5 U/S	<1.0	3.3 J/S	<50 U/S
WR-MW-01	01/03/02	No	<5 U/S	25 /S	<1 U/S	29 /S	22 /S	<5 U/S	<0.5 U/S	3.4 J/S	<10 U/S	<5 U/S	<1.0	3.5 J/S	<50 U/S
WR-MW-01	04/18/02	No	<5.0 U	140	<10 U	29	<10 U	<3.0 U	<0.20 U/UJ	<20 U	<10 U	<100 U	<1.0	<10 U	<20 U
WR-MW-01	08/13/02	No	5.2	150	<0.50 U	20	<10 U	<3.0 O-09 U	<0.20 U	<20 U	<10 U	5.5	<1.0	11	<20 U/UJ
WR-MW-01	08/13/02	No	<5.0 U	160	<0.50 U	21	<10 U	<3.0 O-09 U	<0.20 U	<20 U	<10 U	5.2	<1.0	<10 U	<20 U/UJ
WR-MW-01	02/13/03	No	<5.0 U	250	1.2	14	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	<5.0 U	<1.0	<10 U	<20 U
WR-MW-01	02/13/03	No	<5.0 U	230	1.4	11	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	<5.0 U	<1.0	<10 U	<20 U
WR-MW-01	08/06/03	Yes	**18**	320	<1.0	**63**	<10	<3.0	0.22	<20	35	11	<1.0	28	<20
WR-MW-01	02/10/04	No	8.6	210	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-01	05/25/04	Yes	**17**	240	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-01	12/08/04	No	<5.0	230	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0 /UJ	<10	<20
WR-MW-01	03/01/05	No	<5.0	220	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<1.0	<20
WR-MW-01	03/01/05	No	<5.0	220	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<1.0	<20
WR-MW-01	03/01/05	No	<5.0	220	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<1.0	<20
WR-MW-01	06/07/05	Yes	**12**	820	<1.0	**350**	<10	<3.0	<0.20	<20	78	<5.0	<1.0	91	<20
WR-MW-01	09/14/05	Yes	8.7	420	<1.0	**170**	<10	<3.0	<0.20	<20	30	<5.0	<1.0	39	<20
WR-MW-01	12/06/05	Yes	**10**	580	<1.0	**270**	<10	<3.0	<0.20	<20	40	17	<1.0	63	20
WR-MW-01	12/13/06	Yes	7.7	520	<1.0	**110**	<10	<3.0	<0.20	<20	31	<5.0	<1.0	29	<20
WR-MW-01	06/12/07	Yes	9.2	610	<1.0	**120**	<10	<3.0	<0.20	<20	38	<5.0	<1.0	29	23
WR-MW-01	06/12/07	Yes	8.7	570	<1.0	**110**	<10	<3.0	<0.20	<20	33	<5.0	<1.0	27	<20
WR-MW-01	06/26/07	Yes	7.8	630	<1.0	**250**	<10	<3.0	<0.20	<20	60	<5.0	<1.0	55	<20
WR-MW-01	06/26/07	Yes	8.1	590	<1.0	**240**	<10	<3.0	<0.20	<20	55	<5.0	<1.0	48	<20
WR-MW-01	12/13/07	Yes	<5.0	400	<1.0	**65**	<10	<3.0	<0.20	<20	16	<5.0	<1.0	14	<20
WR-MW-01	12/13/07	Yes	<5.0	380	<1.0	**59**	<10	3.4	<0.20	<20	16	<5.0	<1.0	13	<20
WR-MW-01	04/09/09	No	7.6	300	<5.0	20	<5.0	<3.0	<0.20	<5.0	<5.0	<10	<10	6.6	<20
WR-MW-01	04/09/09	No	8.8	300	<5.0	21	<5.0	<3.0	<0.20	<5.0	5.0	<10	<10	6.4	<20
WR-MW-01	06/24/10	No	<5.0	240	<5.0	9.5	<5.0	<5.0	<0.20	8.5	6.9	20	<10	<5.0	<20
WR-MW-01	06/24/10	No	<5.0	230	<5.0	9.6	<5.0	<5.0	<0.20	8.1	6.8	16	<10	<5.0	<20
WR-MW-01	01/26/11	No	<5.0	210	<5.0	8.9	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	<5.0	<20
WR-MW-01	01/26/11	No	<5.0	190	<5.0	7.4	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/20/11	Yes	**11**	230	<5.0	5.7	<5.0	<5.0	0.28	6.3	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/20/11	Yes	**12**	230	<5.0	7.3	<5.0	<5.0	0.24	6.5	<5.0	<10	<10	<5.0	<20
WR-MW-01	01/11/12	No	<6.1	220	<5.0	<5.0	<5.0	<5.0	<0.20	8.5	<5.0	<10	<10	<5.0	<20
WR-MW-01	01/11/12	No	<6.1	220	<5.0	<5.0	<5.0	<5.0	<0.20	8.2	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/26/12	No	<6.1	230	<5.0	<5.0	<5.0	<5.0	<0.20	6.2	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/26/12	No	<6.1	230	<5.0	<5.0	<5.0	<5.0	<0.20	6.0	<5.0	<10	<10	<5.0	<20

Table B-2. Historical Metal Results

Analyte			Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Analyte Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
MCL/Action Level			10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
Historical MCL Exceedances?			Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-01	01/04/13	No	<5.0	200	<5.0	<5.0	<5.0	<5.0	0.20	11	11	<10	<10	<5.0	<20
WR-MW-01	01/04/13	No	<5.0	230	<5.0	<5.0	<5.0	<5.0	0.20	9.2	11	<10	<10	<5.0	24
WR-MW-01	06/25/13	No	<5.0	220	<5.0	<5.0	<5.0	<5.0	<0.2	<5.0	8.6	<10	<10	<5.0	<20
WR-MW-01	06/25/13	No	<5.0	220	<5.0	<5.0	<5.0	<5.0	<0.2	5.2	7.6	<10	<10	<5.0	<20
WR-MW-01	12/03/13	No	<5.0	230	<5.0	<5.0	<5.0	<5.0	<0.20	7.4	<5.0	<10	<10	<5.0	<20
WR-MW-01	12/03/13	No	<5.0	230	<5.0	<5.0	<5.0	<5.0	<0.20	7.3	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/30/14	No	<5.0	210	<5.0	<5.0	<5.0	<5.0	<0.20	9.4	<5.0	<10	<10	<5.0	<20
WR-MW-01	06/30/14	No	<5.0	190	<5.0	<5.0	<5.0	<5.0	<0.20	8.9	<5.0	<10	<10	<5.0	<20
WR-MW-01	11/05/14	No	<5.0	180	<5.0	<5.0	<5.0	<5.0	<0.20	16	6.0	19	<10	<5.0	<20
WR-MW-01	11/05/14	No	<5.0	160	<5.0	<5.0	<5.0	<5.0	<0.20	15.0	5.9	19	<10	<5.0	<20
WR-MW-01B	10/03/02	Yes	**26**	400	**5.8**	<10 U	<10 U	<3.0 U	<0.20 U	<20 U	52	9.7	<1.0	<10 U	24
WR-MW-01B	10/03/02	Yes	**25**	400	**5.4**	<10 U	<10 U	<3.0 U	<0.20 U	<20 U	55	9.0	<1.0	<10 U	23
WR-MW-02	07/27/01	Yes	**27.8**	794	**10.2**	**455**	–	**71.6**	**2.2**	–	–	12.8	<1.0	–	–
WR-MW-02	01/03/02	No	<5 U/S	<5 U/S	<1 U/S	16 /S	18 /S	<5 U/S	<0.5 U/S	4.3 J/S	<10 U/S	<5 U/S	<1.0	2.6 J/S	57 /S
WR-MW-02	04/18/02	No	5.2	190	<0.50 U	15	<10 U	5.3	<0.20 U/UJ	<20 U	<10 U	<5.0 U	<1.0	<10 U	<20 U
WR-MW-02	04/18/02	No	<100 U	170	<10 U	11	<10 U	<75 U	<0.20 U/UJ	<20 U	<30 U	<100 U	<1.0	<10 U	<20 U
WR-MW-02	08/13/02	No	8.0	200	<0.50 U	<10 U	17	<3.0 U	<0.20 U/UJ	<20 U	<10 U	9.7	<1.0	<10 U	<40 U
WR-MW-02	09/28/09	No	<5.0	140	<0.50 U	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<40
WR-MW-03	07/27/01	Yes	**10.9**	206	1.6 J	**108**	–	**18.2**	1.3	–	–	7.9 J	<1.0	–	–
WR-MW-03	01/03/02	No	<5 U/S	<5 U/S	<1 U/S	11 /S	17 /S	<5 U/S	<0.5 U/S	11 /S	<10 U/S	<5 U/S	<1.0	1.8 J/S	10 J/S
WR-MW-03	04/18/02	No	6.3	40	<0.50 U	11	<10 U	<3.0 U	<0.20 U/UJ	<20 U	<10 U	6.6	<1.0	11	<20 U
WR-MW-03	08/13/02	No	8.6	41	<0.50 U	<10 U	<10 U	<3.0 U	<0.20 U/UJ	<20 U	<10 U	14	<1.0	<10 U	<40 U
WR-MW-04A	10/03/02	No	9.7	170	<0.50 U	27	<10 U	<3.0 U	<0.20 U	<20 U	11	43	<1.0	<10 U	<20 U
WR-MW-04B	10/03/02	No	<5.0 U	46	<0.50 U	<10 U	<10 U	<3.0 U	<0.20 U	22	<10 U	14	<1.0	<10 U	<20 U
WR-MW-05A	10/02/02	Yes	<5.0 U	63	<0.50 U	**57**	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	5.8	<1.0	<10 U	<20 U
WR-MW-05A	02/12/03	No	<5.0 U	74	<1.0 U	35	<10 U	<3.0 U	<0.20 U	20	<10 U	5.2	<1.0	<10 U	<20 U/UJ
WR-MW-05A	08/06/03	No	<5.0	93	<1.0	28	<10	<3.0	<0.20	<20	<10	7.2	<1.0	<10	<20
WR-MW-05A	08/06/03	No	<5.0	92	<1.0	28	<10	<3.0	<0.20	<20	<10	7.1	<1.0	<10	<20
WR-MW-05A	02/10/04	No	<5.0	200	<1.0	19	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	02/10/04	No	<5.0	200	<1.0	19	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	05/25/04	No	<5.0	240	<1.0	29	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	05/25/04	No	<5.0	230	<1.0	29	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	12/08/04	No	<5.0	170	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0 /UJ	<10	<20
WR-MW-05A	03/01/05	No	<5.0	140	<1.0	<10	<10	<3.0	<0.20	<20	<10	11	<1.0	<10	<20
WR-MW-05A	06/07/05	No	<5.0	86	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	09/14/05	No	6.4	83	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20

Table B-2. Historical Metal Results

Analyte			Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Analyte Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
MCL/Action Level			10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
Historical MCL Exceedances?			Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-05A	09/14/05	No	6.8	83	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	12/06/05	Yes	**11**	250	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-05A	06/26/06	Yes	**34**	310	<1.0	<10	<10	<3.0	<0.20	<20	10	<5.0	<1.0	<10	<20
WR-MW-05A	12/13/06	Yes	**77**	450	<1.0	**65**	82	<3.0	<0.20	<20	88	<5.0	<1.0	37	<20
WR-MW-05A	06/12/07	Yes	**100**	600	<1.0	**160**	<10	<3.0	<0.20	<20	**210**	<5.0	<1.0	80	28
WR-MW-05A	12/12/07	Yes	**130**	770	<1.0	**170**	<10	<3.0	<0.20	<20	**220**	27	<1.0	81	<20
WR-MW-05A	04/09/09	No	5.8	88	<5.0	<5.0	<5.0	<3.0	<0.20	21	<10	<10	<10	7.9	<20
WR-MW-05A	06/23/10	Yes	**65**	480	<5.0	33	18	<5.0	<0.20	11	31	26	<10	16	<20
WR-MW-05A	01/26/11	Yes	**65**	510	<5.0	42	<5.0	<5.0	<0.20	11	30	<10	<10	16	<20
WR-MW-05A	06/20/11	Yes	**70**	500	<5.0	36	<5.0	<5.0	1.5	11	12	<10	<10	13	<20
WR-MW-05A	01/10/12	Yes	**43**	440	<5.0	44	<5.0	<5.0	<0.20	9.7	12	<10	<10	14	<20
WR-MW-05A	06/26/12	Yes	**27**	350	<5.0	**53**	<5.0	<5.0	<0.20	5.6	10	18	<10	17	<20
WR-MW-05A	01/03/13	Yes	**39**	350	<5.0	**50**	<5.0	<5.0	<0.20	7.8	6.8	<10	<10	15	<20
WR-MW-05A	06/25/13	Yes	**41**	340	<5.0	38	<5.0	<5.0	<0.20	7.6	6.5	<10	<10	12	<20
WR-MW-05A	12/03/13	Yes	**49**	480	<5.0	37	<5.0	<5.0	<0.20	<5.0	6.5	<10	<10	12	<20
WR-MW-05A	06/30/14	Yes	**49**	640	<5.0	21	<5.0	<5.0	<0.20	<5.0	8.3	<10	<10	8.7	<20
WR-MW-05A	11/04/14	Yes	**43**	820	<5.0	20	<5.0	<5.0	<0.20	<5.0	13	17	<10	8.1	<20
WR-MW-05B	09/30/02	No	<5.0 U	50	<0.50 U	<10 U	<10 U	<3.0 U	<0.20 U	25	<10 U	8.3	<1.0	<10 U	57
WR-MW-06A	10/03/02	No	6.0	74	<0.50 U	37	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	11	<1.0	<10 U	<20 U
WR-MW-06B	09/30/02	Yes	<5.0 U	61	<0.50 U	<10 U	200	7.9	<0.20 U	<20 U	<10 U	**56**	<1.0	<10 U	58
WR-MW-07A	10/03/02	No	6.2	110	<0.50 U	29	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	12	<1.0	<10 U	<20 U
WR-MW-07A	02/12/03	No	<5.0 U	55	<1.0 U	23	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	<5.0 U	<1.0	<10 U	<20 U/UJ
WR-MW-07A	08/06/03	No	<5.0	66	<1.0	24	<10	<3.0	<0.20	<20	<10	6.0	<1.0	<10	<20
WR-MW-07A	02/10/04	No	<5.0	82	<1.0	26	<10	<3.0	<0.20	<20	<10	5.6	<1.0	<10	<20
WR-MW-07A	05/24/04	No	<5.0	79	<1.0	24	<10	<3.0	<0.20	<20	<10	5.2	<1.0	<10	<20
WR-MW-07A	03/02/05	No	<5.0	92	<1.0	22	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-07A	06/07/05	No	<5.0	85	<1.0	18	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-07A	09/14/05	No	<5.0	85	<1.0	19	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-07A	12/08/05	No	<5.0	80	<1.0	20	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-07A	12/13/06	No	<5.0	68	<1.0	17	<10	<3.0	<0.20	20	<10	<5.0	<1.0	<10	<20
WR-MW-07A	12/13/07	No	<5.0	71	<1.0	17	<10	<3.4	<0.20	21	<10	<5.0	<1.0	<10	<20
WR-MW-08A	10/03/02	No	8.2	62	<0.50 U	20	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	10	<1.0	<10 U	<20 U
WR-MW-08A	06/24/10	No	<5.0	100	<5.0	6.6	8.9	<5.0	<0.20	11	<5.0	26	<10	7.4	<20
WR-MW-08A	01/27/11	No	<5.0	120	<5.0	6.1	<5.0	<5.0	<0.20	8.1	<5.0	<10	<10	7	<20
WR-MW-08A	06/20/11	No	9.7	120	<5.0	<5.0	<5.0	<5.0	<0.20	9.7	<5.0	<10	<10	<5.0	<20
WR-MW-08A	01/11/12	No	<6.1	100	<5.0	<5.0	<5.0	<5.0	<0.20	11	<5.0	<10	<10	6.8	<20

Table B-2. Historical Metal Results

Analyte			Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Analyte Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
MCL/Action Level			10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
Historical MCL Exceedances?			Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-08A	06/26/12	No	<5.0	110	<5.0	5.4	<5.0	<5.0	<0.20	7.1	<5.0	<10	<10	8.5	<20
WR-MW-08A	01/03/13	No	<5.0	90	<5.0	7.2	<5.0	<5.0	<0.20	9.1	<5.0	<10	<10	7.6	<20
WR-MW-08A	06/25/13	No	<5.0	82	<5.0	6.7	<5.0	<5.0	<0.20	5.4	<5.0	<10	<10	7.7	<20
WR-MW-08A	12/03/13	No	<5.0	87	<5.0	11	<5.0	<5.0	<0.20	5.3	<5.0	<10	<10	7.6	<20
WR-MW-08A	06/30/14	No	<5.0	67	<5.0	11	<5.0	<5.0	<0.20	5.9	<5.0	<10	<10	8.4	<20
WR-MW-08A	11/05/14	No	<5.0	62	<5.0	9.8	<5.0	<5.0	<0.20	7.1	<5.0	22	<10	7.2	<20
WR-MW-09A	10/03/02	No	<5.0 U	81	<0.50 U	32	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	11	<1.0	<10 U	<20 U
WR-MW-09A	02/12/03	No	<5.0 U	82	<1.0 U	26	<10 U	<3.0 U	<0.20 U	<20 U	<10 U	<5.0 U	<1.0	<10 U	<20 U/UJ
WR-MW-09A	08/06/03	No	<5.0	100	<1.0	25	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	02/10/04	No	<5.0	130	<1.0	19	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	05/25/04	No	<5.0	140	<1.0	19	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	12/08/04	No	<5.0	270	<1.0	17	<10	<3.0	<0.20	<20	<10	<5.0	<1.0 /UJ	<10	<20
WR-MW-09A	12/08/04	No	<5.0	280	<1.0	17	<10	<3.0	<0.20	<20	<10	<5.0	1.9 /J-	<10	<20
WR-MW-09A	03/01/05	No	<5.0	210	<1.0	11	<10	<3.0	<0.20	<20	<10	11	<1.0	<10	<20
WR-MW-09A	06/07/05	No	<5.0	180	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	09/14/05	No	<5.0	270	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	12/06/05	No	<5.0	290	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	12/06/05	No	<5.0	290	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	06/12/06	No	6.6	340	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	06/26/06	Yes	**14**	260	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	12/13/06	Yes	**10**	240	<1.0	<10	<10	<3.0	<0.20	<20	<10	<5.0	<1.0	<10	<20
WR-MW-09A	12/12/07	No	<5.0	410	<1.0	<10	<10	<3.0	<0.20	<20	<10	23	<1.0	<10	<20
WR-MW-09A	04/09/09	Yes	**26**	350	<5.0	<5.0	<5.0	<3.0	<0.20	<5.0	<5.0	<10	<10	<5.0	<20
WR-MW-09A	06/24/10	Yes	**17**	320	<5.0	12	16	<5.0	<0.20	14	15	45	<10	<5.0	<20
WR-MW-09A	01/26/11	Yes	**120**	350	<5.0	27	<5.0	<5.0	<0.20	7.8	19	<10	<10	16	<20
WR-MW-09A	06/20/11	Yes	**180**	350	<5.0	31	<5.0	<5.0	0.65	10	17	<10	<10	17	<20
WR-MW-09A	01/10/12	Yes	**100**	310	<5.0	**68**	<5.0	<5.0	<0.20	12	20	<10	<10	31	<20
WR-MW-09A	06/26/12	Yes	**98**	370	<5.0	**81**	<5.0	<5.0	<0.20	7.1	23	<10	<10	42	<20
WR-MW-09A	01/13/13	Yes	**120**	330	<5.0	**70**	<5.0	<5.0	<0.20	11	19	<10	<10	36	<20
WR-MW-09A	06/25/13	Yes	**190**	390	<5.0	**66**	<5.0	<5.0	<0.20	<5.0	21	<10	<10	35	<20
WR-MW-09A	12/03/13	Yes	**170**	410	<5.0	**74**	<5.0	<5.0	<0.20	<5.0	22	<10	<10	37	<20
WR-MW-09A	06/30/14	Yes	**120**	370	<5.0	**77**	<5.0	<5.0	<0.20	<5.0	20	<10	<10	38	<20
WR-MW-09A	11/04/14	Yes	**130**	330	<5.0	**68**	<5.0	<5.0	<0.20	<5.0	16	22	<10	35	<20
WR-MW-10A	04/08/09	Yes	**13**	220	<5.0	<5.0	6.1	<3.0	<0.20	<5.0	7.3	<10	<10	<5.0	<20
WR-MW-10A	09/28/09	Yes	**12**	180	<5.0	<5.0	<10	<3.0	<0.20	<5.0	<10	<10	<10	<5.0	<20
WR-MW-10A	06/24/10	No	<5.0	230	<5.0	<5.0	<5.0	<5.0	0.27	13	<5.0	<10	<10	<5.0	<20

Table B-2. Historical Metal Results

		Analyte	Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
		Analyte Group	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
		MCL/Action Level	10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
		Historical MCL Exceedances?	Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-10A	01/27/11	No	<5.0	220	<5.0	<5.0	<5.0	<5.0	<0.20	5.9	6.7	<10	<10	<5.0	<20
WR-MW-10A	06/21/11	Yes	**17**	180	<5.0	<5.0	<5.0	<5.0	0.46	9.1	<5.0	<10	<10	<5.0	<20
WR-MW-10A	01/11/12	Yes	**12**	190	<5.0	<5.0	<5.0	<5.0	<0.20	12	<5.0	<10	<10	<5.0	<20
WR-MW-10A	06/27/12	No	<5.0	150	<5.0	<5.0	<5.0	<5.0	<0.20	9.5	<5.0	<10	<10	<5.0	<20
WR-MW-10A	01/04/13	Yes	**11**	150	<5.0	<5.0	<5.0	<5.0	<0.20	11	<5.0	<10	<10	<5.0	22
WR-MW-10A	06/26/13	Yes	**16**	140	<5.0	<5.0	<5.0	<5.0	<0.20	8.4	<5.0	<10	<10	<5.0	<20
WR-MW-10A	12/04/13	Yes	**30**	120	<5.0	<5.0	<5.0	<5.0	<0.20	11	<5.0	<10	<10	<5.0	<20
WR-MW-10A	07/01/14	Yes	**35**	150	<5.0	<5.0	<5.0	<5.0	<0.20	9.2	<5.0	<10	<10	<5.0	<20
WR-MW-10A	11/05/14	Yes	**33**	130	<5.0	<5.0	<5.0	<5.0	<0.20	12	<5.0	10	<10	<5.0	<20
WR-MW-11A	04/08/09	No	6.4	180	<5.0	14	7.4	<3.0	<0.20	<5.0	<5.0	<10	<10	12	<20
WR-MW-11A	09/28/09	No	<5.0	160	<5.0	12	7.4	<3.0	<0.20	<5.0	<5.0	<10	<10	11	<20
WR-MW-11A	06/24/10	No	<5.0	150	<5.0	10	26	<5.0	<0.20	8.4	<5.0	32	<10	9.4	360
WR-MW-11A	01/27/11	No	<5.0	140	<5.0	10	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	8.9	<20
WR-MW-11A	06/21/11	Yes	**13**	120	<5.0	<5.0	<5.0	<5.0	0.28	7.3	<5.0	<10	<10	6	<20
WR-MW-11A	01/11/12	No	<6.1	120	<5.0	<5.0	<5.0	<5.0	<0.20	7.5	<5.0	<10	<10	7.6	<20
WR-MW-11A	06/26/12	No	<5.0	140	<5.0	<5.0	<5.0	<5.0	<0.20	5.3	<5.0	<10	<10	9.8	<20
WR-MW-11A	01/03/13	No	<5.0	130	<5.0	5.3	<5.0	<5.0	<0.20	7.2	<5.0	<10	<10	9	<20
WR-MW-11A	06/25/13	No	<5.0	110	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	9.2	<20
WR-MW-11A	12/03/13	No	<5.0	120	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	9.2	110
WR-MW-11A	07/01/14	No	<5.0	120	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	<5.0	<10	<10	9.8	<20
WR-MW-11A	11/05/14	No	<5.0	110	<5.0	6.1	<5.0	<5.0	<0.20	<5.0	<5.0	15	<10	8.6	<20
WR-MW-12A	04/08/09	Yes	**20**	310	<5.0	<5.0	6.3	<3.0	<0.20	<5.0	9.8	<10	<10	<5.0	<20
WR-MW-12A	08/28/09	Yes	**16**	260	<5.0	<5.0	<10	<3.0	<0.20	<5.0	<10	<10	<10	<10	<20
WR-MW-12A	06/24/10	No	<5.0	220	<5.0	<5.0	<5.0	<5.0	<0.20	11	9.8	30	<10	<5.0	<20
WR-MW-12A	01/27/11	Yes	**46**	200	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	11	<10	<10	<5.0	<20
WR-MW-12A	06/21/11	Yes	**70**	150	<5.0	<5.0	<5.0	<5.0	0.21	7	<5.0	<10	<10	<5.0	<20
WR-MW-12A	01/11/12	Yes	**66**	170	<5.0	<5.0	<5.0	<5.0	<0.20	10	7.3	<10	<10	<5.0	<20

Table B-2. Historical Metal Results

Analyte			Arsenic (µg/L)	Barium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Copper (ug/L)	Lead (µg/L)	Mercury (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)
Analyte Group			Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals	Metals
MCL/Action Level			10	1,000	5	50	1,300	15	2	N/A	100	50	2	N/A	N/A
Historical MCL Exceedances?			Yes	No	Yes	Yes	No	Yes	Yes	No	Yes	Yes	No	No	No
Well ID	**Sample Date**	**MCL Exceedance?**													
WR-MW-12A	06/27/12	Yes	**51**	150	<5.0	<5.0	<5.0	<5.0	<0.20	7.3	5.7	<10	<10	<5.0	<20
WR-MW-12A	01/04/13	Yes	**66**	160	<5.0	<5.0	<5.0	<5.0	<0.20	9.9	5.6	<10	<10	<5.0	<20
WR-MW-12A	06/26/13	Yes	**62**	140	<5.0	<5.0	<5.0	<5.0	<0.20	5.5	5.7	<10	<10	<5.0	<20
WR-MW-12A	12/04/13	Yes	**81**	160	<5.0	<5.0	<5.0	<5.0	<0.20	5.8	5.7	<10	<10	<5.0	<20
WR-MW-12A	07/01/14	Yes	**87**	160	<5.0	<5.0	<5.0	<5.0	<0.20	<5.0	6.4	<10	<10	<5.0	<20
WR-MW-12A	11/05/14	Yes	**92**	160	<5.0	<5.0	<5.0	<5.0	<0.20	7.6	6.4	24	<10	<5.0	<20

Notes:

<= Not detected above indicated limit

µg/L= micrograms per liter

Bold/highlight= exceeds State MCL

J= Estimated value; (+) high bias (-) low bias

MCL= Maximum Contaminant Level

N/A= not applicable

U= Not detected at or above limit of detection

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-IW-01	10/02/02	–	–	–	<4.0 R-01 U	–	–	–	–	–	–	1.1 /D	–	–	–	–
WR-IW-01	02/09/03	–	–	–	–	–	–	–	–	–	–	4,200 /D	–	–	–	–
WR-IW-01	05/23/03	–	–	–	–	–	–	–	–	–	–	24,000 /D	–	–	–	–
WR-IW-01	08/06/03	–	–	–	–	–	–	–	–	–	–	21,000 /D	–	–	–	–
WR-IW-01	11/11/03	–	–	–	–	–	–	–	–	–	–	21,000	–	–	–	–
WR-IW-01	02/10/04	–	–	–	–	–	–	–	–	–	–	22,000	500	8,900	41	26
WR-IW-02	10/02/02	–	–	–	<1.0 U	–	–	–	–	–	–	1.6 /D	–	–	–	–
WR-IW-02	02/12/03	–	–	–	–	–	–	–	–	–	–	9,700 /D	–	–	–	–
WR-IW-02	05/23/03	–	–	–	–	–	–	–	–	–	–	19,000 /D	–	–	–	–
WR-IW-02	08/06/03	–	–	–	–	–	–	–	–	–	–	24,000 /D	–	–	–	–
WR-IW-02	11/11/03	–	–	–	–	–	–	–	–	–	–	16,000	–	–	–	–
WR-IW-03	10/02/02	–	–	–	<4.0 R-01 U	–	–	–	–	–	–	1.9 /D	–	–	–	–
WR-IW-03	02/12/03	–	–	–	–	–	–	–	–	–	–	6,600 /D	–	–	–	–
WR-IW-03	05/23/03	–	–	–	–	–	–	–	–	–	–	17,000 /D	–	–	–	–
WR-IW-03	08/06/03	–	–	–	–	–	–	–	–	–	–	19,000 /D	–	–	–	–
WR-IW-03	11/11/03	–	–	–	–	–	–	–	–	–	–	13,000	–	13.58 /T	–	–
WR-IW-03	02/10/04	–	–	–	–	–	–	–	–	–	–	17,000	390	7,400	130	170
WR-IW-04	10/02/02	–	–	–	<4.0 R-01 U	–	–	–	–	–	–	1.1 /D	–	–	–	–
WR-IW-04	02/13/03	–	–	–	–	–	–	–	–	–	–	6,900 /D	–	–	–	–
WR-IW-04	05/23/03	–	–	–	–	–	–	–	–	–	–	14,000 /D	–	–	–	–
WR-IW-04	08/06/03	–	–	–	–	–	–	–	–	–	–	27,000 /D	–	–	–	–
WR-IW-04	11/11/03	–	–	–	–	–	–	–	–	–	–	22,000	–	–	–	–
WR-MW-01	01/03/02	310 /S	310	0	–	–	18 /S	<0.5 U/S	140 /S	310 /S	<0.4 U/S	–	17 /S	0.054 /S	31 /S	5.7 /S
WR-MW-01	01/03/02	260 /S	–	–	–	–	18 /S	<0.5 U/S	140 /S	310 /S	<0.4 U/S	–	27 /S	0.39 /S	160 /S	15 /S
WR-MW-01	04/18/02	1,800	400	1,400	–	–	22	<0.20 U	140 /D	300	<0.50 U/U	–	21	0.30	48	58
WR-MW-01	08/13/02	1,900	0	1,900	–	–	24	<0.20 U	130 /D	310	<0.50 U	–	22	0.51	140	14
WR-MW-01	08/13/02	2,100	–	–	–	–	24	<0.20 U	130 /D	320	<0.50 U	–	21	0.45	120	10
WR-MW-01	11/14/02	1,300	0	1,300	2.1HT-04/J-D	170 /D	–	–	130 /D	290	<0.50 U	1.4 /D	20	0.19	<5.0 U	<5.0 U
WR-MW-01	02/13/03	1,900 /J+	0	1,900 /J+	0.75	170	12	**2.6**	150	570	<0.04 U	19	–	–	–	–
WR-MW-01	02/13/03	2,200 /J+	–	–	0.82	170	12	**2.3**	150	580	–	19	–	–	–	–
WR-MW-01	06/26/03	14,000	4,800	9,200	22 /D	210 /D	3.5 /D	**2.2 /D**	94 /D	1,200	0.19 /J-	700 /D	–	–	–	–
WR-MW-01	06/26/03	16,000	–	–	26 /D	210 /D	3.3 /D	**2.0 /D**	90 /D	1,300	0.12 /J-	680 /D	–	–	–	–

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-01	08/06/03	9,700	3,200	6,500	14 /D	180 /D	2.6 /D	<0.50 /D	50 /D	1,100	0.35	430 /D	280	11,000	180	<5.0
WR-MW-01	11/11/03	5,900	3,500	2,400	0.54	140	1.1	0.11	170	760	0.16	120	190	10,000	98	160
WR-MW-01	11/11/03	5,500	–	–	0.55	140	1.1	0.11	170	750	0.16	120	190	9,900	53	140
WR-MW-01	02/10/04	3,200	4,800	–	0.41	120	2.8	0.80	200	620	0.08 /J-	5.6	140	9,500	<5.0	<5.0
WR-MW-01	05/25/04	8,900	4,000	4900	0.7	130	1.1	0.07	100	650	0.72	84	140	4,000	46	95
WR-MW-01	09/02/04	5,200	–	–	0.64	120	1.4	0.13	160	620	0.05 /J-	11	130	6,400	55	32
WR-MW-01	12/08/04	4,300	4,000	300	0.37	100	2.4	0.72	180	510	<0.04	2.9	160	7,100	67	72
WR-MW-01	03/01/05	3,700	–	–	0.34	95	2.8	0.26	150	550	–	3.0	180	8,600	<5.0	<5.0
WR-MW-01	03/01/05	3,700	3,800	100	0.35	95	3.1	0.31	150	550	0.08	3.0	130	6,900	17	<5.0
WR-MW-01	06/07/05	49,000	–	–	<2.0	380	<0.50	0.73	34	2,300	<0.04	–	450	8,300	<25	25 J
WR-MW-01	06/07/05	49,000	–	–	<2.0	380	<0.50	0.77	34	2,400	<0.04	–	340	8,200	30	43
WR-MW-01	06/09/05	–	–	–	–	–	–	–	–	–	–	1,600	–	–	–	–
WR-MW-01	06/09/05	–	–	–	–	–	–	–	–	–	–	1,500	–	–	–	–
WR-MW-01	09/14/05	24,000	5,500	18,500	4.5	180	<0.05	<0.05	25	1,400	<0.04	230	430	9,800	17 J	54
WR-MW-01	12/06/05	32,000	3,200	28,800	20	300	<0.05	<0.05	<0.50	2,000	<0.04	560	410	6,500	82	38
WR-MW-01	03/14/06	25,000	3,800	21,200	21	360	<0.10	<0.10	3.2	2,300	<0.04	710	450	5,000	40	34
WR-MW-01	06/26/06	21,000	–	–	5.7	280	<0.05 UJ	<0.05 UJ	6.3	1,900	<0.04	330	440	1,000	51	53
WR-MW-01	06/26/06	21,000	4,600	16,400	5.5	270	<0.05 UJ	<0.05 UJ	7.7	1,800	<0.04	340	380	9,100	42	49
WR-MW-01	06/29/06	–	–	–	–	–	–	–	–	–	–	6,800	–	–	–	–
WR-MW-01	09/26/06	19,000	–	–	–	240	<0.05	<0.05	14	1,700	0.33	240	240	3,200	32	8 J
WR-MW-01	09/26/06	21,000	–	–	–	250	<0.05	<0.05	12	1,700	<0.04	240	310	6,700	62	25 J
WR-MW-01	12/13/06	18,000	–	–	1.1	140	<0.05	<0.05	22	1,500	<0.04	100	420	8,500	710	<25
WR-MW-01	03/27/07	28,000	400	27,600	–	210	<0.05	<0.05	3.1	1,700	0.61	160	640	9,700	110	52
WR-MW-01	06/12/07	29,000	–	27,600	<0.20	230	<0.05	<0.05	13	1,700	–	140	400	7,400	590	260
WR-MW-01	06/12/07	26,000	3,600	22,400	<0.20	210	<0.05	<0.05	21	1,600	<0.30	140	410	6,900	150	180
WR-MW-01	09/26/07	17,000	–	–	–	160	<0.05	<0.05	30 J	1,400	0.36	96	240	4,300	<25	45
WR-MW-01	09/26/07	18,000	–	–	–	160	<0.05	<0.05	20 J	1,400	0.34	130	290	5,300	<25	35
WR-MW-01	12/13/07	17,000	3.2	16,996	<1.0	150	<0.25	–	6.5	1,100	0.37	31	330	6,600	25 J	4 J
WR-MW-01	12/13/07	15,000	–	–	<1.0	160	<0.25	–	49	1,300	0.41	32	310	5,300	<25	29
WR-MW-01	03/27/08	12,000	7,300	4,700	<1.0	120	0.25	<0.05	51	930	0.39	24	280	9,400	74	38
WR-MW-01	03/27/08	–	–	–	–	120	0.09	<0.05	68	890	0.63	64	300	11,000	64	38
WR-MW-01	10/08/08	15,000	10	–	–	130	0.1	<0.05	79	730	0.10	11	240	9,900	270	41

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-01	10/08/08	14,000	---	–	–	130	<0.05	<0.05	76	720	0.06	11	270	12,000	140	29
WR-MW-01	04/09/09	11,000	3,000	8,000	–	150	0.07	<0.05	77	800	0.08	19	240	11,000	68	40
WR-MW-01	04/09/09	11,000	–	–	–	150	0.08	<0.05	77	800	0.27	20	240	9,700	75	37
WR-MW-01	06/24/10	11,000	9,000	2,000	–	150	<0.05	<0.05	100	620	0.08	4.9	210	10,000	81	<25
WR-MW-01	06/24/10	11,000	9,000	2,000	–	150	<0.05	<0.05	100	620	0.08	5.0	230	9,200	74	<25
WR-MW-01	01/26/11	12,000	0	12,000	–	–	–	–	110	–	0.14	4.3	140	6,300	–	–
WR-MW-01	01/26/11	12,000	0	12,000	–	–	–	–	110	–	0.12	4.3	120	5,300	–	–
WR-MW-01	06/20/11	11,000	1,600	9,400	–	–	–	–	100	–	<0.04	4.8	140	6,800	–	–
WR-MW-01	06/20/11	11,000	1,600	9,400	–	–	–	–	100	–	<0.04	4.9	140	6,200	–	–
WR-MW-01	01/11/12	11,000	4,000	7,000	–	–	–	–	110	–	<0.04	3.3	160	3,500	–	–
WR-MW-01	01/11/12	11,000	4,000	7,000	–	–	–	–	100	–	<0.04	3.4	150	3,200	–	–
WR-MW-01	06/26/12	9,500	3,200	6,300	–	–	–	–	110	–	<0.04	2.5	160	2,300	–	–
WR-MW-01	06/26/12	9,500	3,200	6,300	–	–	–	–	110	–	<0.04	2.6	140	2,200	–	–
WR-MW-01	01/04/13	9,600	3,000	6,600	–	–	–	–	120	–	0.07	2.8	96	1,400	–	–
WR-MW-01	01/04/13	10,000	3,000	7,000	–	–	–	–	120	–	0.06	3.5	100	1,200	–	–
WR-MW-01	06/25/13	9,700	2,700	7,000	–	–	–	–	120	–	0.10	3.0	150	1,600	–	–
WR-MW-01	06/25/13	11,000	2,700	8,300	–	–	–	–	110	–	0.12	3.0	150	1,500	–	–
WR-MW-01	12/03/13	13,000	4,400	8,600	–	–	–	–	110	–	0.18	3.3	130	1,800	–	–
WR-MW-01	12/03/13	12,000	4,400	7,600	–	–	–	–	110	–	0.16	3.3	120	1,400	–	–
WR-MW-01	06/30/14	7,700	3,600	4,100	–	–	–	–	120	–	<0.04	2.5	130	1,800	–	–
WR-MW-01	06/30/14	7,900	3,600	4,300	–	–	–	–	120	–	<0.04	2.7	110	1,300	–	–
WR-MW-01	11/05/14	6,800	3,200	3,600	–	–	–	–	120	–	<0.04	2.0	75	2,100	–	–
WR-MW-01	11/05/14	4,500	3,200	1,300	–	–	–	–	120	–	<0.04	1.7	77	1,700	–	–
WR-MW-01B	10/03/02	–	–	–	<10 U/D	2,600 /D	6.3 /D	<24 R-01 U/D	150 /D	170	<0.50 U	<0.80 U/D	26	0.92	56	46
WR-MW-01B	10/03/02	–	–	–	<10 U/D	2,600 /D	6.4 HT-04/J-	<24 HT-04 /U	150 /D	170	<0.50 U	<0.80 U/D	26	1.1	59	51
WR-MW-01B	02/09/03	–	–	–	0.27	–	–	–	–	–	–	–	–	–	–	–
WR-MW-01B	05/29/03	–	–	–	0.60 /D	–	–	–	–	–	–	–	–	–	–	–
WR-MW-02	01/03/02	43,000 /S	0	43,000	–	–	9.5 /S	<0.5 U/S	140 /S	220 /S	<0.4 U/S	–	14 /S	0.8 /S	57 /S	16 /S
WR-MW-02	04/18/02	2,000	0	2,000	–	–	11	<0.20 U	140 /D	220	<0.50 U	–	18	0.99	22	27
WR-MW-02	04/18/02	2,100	–	–	–	–	11	<0.20 U	140 /D	220	<0.50 U	–	17	2.8	210	260
WR-MW-02	08/13/02	520	0	520	–	–	13	<0.20 U	150 /D	210	<0.50 U	–	17	0.52	150	14
WR-MW-02	04/09/09	7,000	0	–	–	–	–	–	–	–	<0.04	3.0	160	780	21 J	<25 U

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-02	09/28/09	–	–	–	–	–	–	–	–	–	–	4.0	230	2100	45	6 J
WR-MW-02	07/01/10	710	–	–	–	79	1.5	<0.05	83	760	0.05	2.3	150	240	32	<25
WR-MW-02	01/27/11	530	0	530	–	–	–	–	83	–	<0.04	2.3	140	110	–	–
WR-MW-02	06/20/11	130	0	130	–	–	–	–	74	–	<0.04	2.2	140	370	–	–
WR-MW-02	01/11/12	480	0	480	–	–	–	–	75	–	<0.04	2.1	150	180	–	–
WR-MW-02	06/27/12	610	0	610	–	–	–	–	78	–	<0.04	1.9	130	150	–	–
WR-MW-02	01/04/13	520	0	520	–	–	–	–	94	–	0.1	2	86	14	–	–
WR-MW-02	06/26/13	1,200	0	1,200	–	–	–	–	98	–	0.28	3	100	63	–	–
WR-MW-02	12/04/13	1,500	0	1,500	–	–	–	–	120	–	0.04	1.9	47	0.23	–	–
WR-MW-02	07/01/14	280	0	280	–	–	–	–	140	–	<0.04	1.4	46	4.3	–	–
WR-MW-02	11/04/14	140	0	140	–	–	–	–	140	–	<0.04	1.1	45	13	–	–
WR-MW-03	01/03/02	15,000 /S	0	15,000	–	–	11 /S	<0.5 U/S	150 /S	300 /S	4.4 /S	–	13 /S	0.53 /S	210 /S	25 /S
WR-MW-03	04/18/02	<300 U	–	–	–	–	12	<0.20 U	140 /D	300	<0.50 U	–	–	0.28	<5.0 U	<5.0 U
WR-MW-03	08/13/02	500	0	500	–	–	13	<0.20 U	140 /D	310	<0.50 U	–	19	0.48	160	100
WR-MW-05A	02/12/03	<100 U	–	–	0.70	180	15	<0.05 U	150	320	<0.04 U	<1.0 /U	–	–	–	–
WR-MW-05A	06/26/03	1,000	0	1,000	0.66	180 /D	16 /D	<0.05 U	150 /D	380	<0.04 U/R	1.5	–	–	–	–
WR-MW-05A	08/06/03	640	–	–	0.57	180 /D	15 /D	<0.05	140 /D	330	<0.04	1.3	–	–	–	–
WR-MW-05A	08/06/03	630	0	630	0.57	180 /D	15 /D	<0.05	140 /D	320	<0.04	1.3	–	–	–	–
WR-MW-05A	11/11/03	550	0	550	0.52	160	16	<0.05	160	350	<0.04	1.2	–	–	–	–
WR-MW-05A	02/10/04	–	–	–	0.81	–	–	–	–	–	–	1.1	–	–	–	–
WR-MW-05A	02/10/04	–	–	–	0.81	–	–	–	–	–	–	1.2	200	15,000	<5.0	100
WR-MW-05A	05/25/04	–	–	–	0.74	–	–	–	–	–	–	1.3	–	–	–	–
WR-MW-05A	05/25/04	–	–	–	0.86	–	–	–	–	–	–	1.2	–	–	–	–
WR-MW-05A	09/02/04	420	–	–	0.65	120	7.3	0.44	140	940	<0.04 /R	3.9	250	840	24	130
WR-MW-05A	12/08/04	<100	–	–	1.5	120	4.8	**1.0**	83	760	<0.04	2.3	170	3,900	90	49
WR-MW-05A	03/01/05	<100	<0.0	–	1.8	92	3.1	0.19	70	750	<0.04	3.1	130	6,400	44	<5.0
WR-MW-05A	06/07/05	<100	<0.0	<100	0.31	60	5.1	<0.05	71	470	<0.04	–	100	7,800	<25	18 J
WR-MW-05A	06/09/05	–	–	–	–	–	–	–	–	–	–	2.3	–	–	–	–
WR-MW-05A	09/14/05	810	1,000	–	0.24	67	0.28	0.16	50	490	0.20	11	95	7,400	96	30
WR-MW-05A	09/14/05	780	–	–	0.23	68	0.31	0.18	49	510	0.17	11	97	7,200	80	29
WR-MW-05A	12/06/05	1,700	3,000	–	0.26	73	0.1	<0.05	63	940	<0.04	7.2	510	4,200	120	41
WR-MW-05A	03/14/06	8,700	–	–	0.66	100	<0.05	<0.05	34	1,000	0.06	53	480	3,700	81	17 J

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-05A	03/14/06	8,300	3,600	–	0.67	100	<0.05	<0.05	32	2,300	<0.04	53	490	4,100	90	33
WR-MW-05A	06/26/06	9,800	5,000	4,800	0.84	120	<0.05 UJ	<0.05 UJ	7.9	1,200	0.45	70	410	8,400	66	54
WR-MW-05A	09/26/06	20,000	–	–	–	230	<0.05	0.12	<0.50	1,500	<0.04	190	–	–	–	–
WR-MW-05A	12/13/06	17,000	–	–	1.1	320	<0.05	<0.05	<0.05	1,600	<0.04	170	420	7,300	200	<25
WR-MW-05A	03/27/07	20,000	–	–	–	380	<0.05	<0.05	2.1	1,600	<0.04	310	320	3,500	170	170
WR-MW-05A	03/27/07	22,000	3,000	19,000	–	370	<0.05	<0.05	1.2	1,600	<0.04	310	330	3,200	150	160
WR-MW-05A	06/12/07	24,000	4,000	20,000	1.5	400	<0.05	<0.05	4.1	1,700	<0.30	340	460	8,500	170	300
WR-MW-05A	09/26/07	26,000	–	–	–	540	<0.05	<0.05	<0.50	1,600	0.34	350	320	1,900	39	210
WR-MW-05A	12/12/07	33,000	3	32,997	1.6	660	<0.025	–	<2.5	1,700	0.64	390	450	5,400	130	160
WR-MW-05A	03/27/08	24,000	20,000	4,000	–	390	<0.10	<0.10	2.9	1,600	0.36	330	390	7,200	150	420
WR-MW-05A	10/08/08	23,000	<10	–	–	200	<0.05	<0.05	18	1,700	0.15	140	470	6,600	0.33	210
WR-MW-05A	04/09/09	4,000	0	4,000	–	430	8.3	<0.05	100	240	<0.04	1.1	17	78	21 J	50
WR-MW-05A	06/23/10	21,000	–	–	–	160	<0.05	<0.05	2.1	1,500	<0.04	58	460	8,100	300	140
WR-MW-05A	01/26/11	23,000	2,600	20,400	–	–	–	–	2.6	–	0.09	62	250	1,400	–	–
WR-MW-05A	06/20/11	16,000	3,400	12,600	–	–	–	–	39	–	0.08	36	250	10,000	–	–
WR-MW-05A	01/10/12	12,000	5,400	6,600	–	–	–	–	44	–	<0.04	32	180	9,400	–	–
WR-MW-05A	06/26/12	8,900	3,600	5,300	–	–	–	–	23	–	<0.04	24	110	7,700	–	–
WR-MW-05A	01/03/13	6,900	3,200	3,700	–	–	–	–	34	–	0.19	19	88	5,700	–	–
WR-MW-05A	06/25/13	9,100	3,200	5,900	–	–	–	–	57	–	0.23	15	85	5,000	–	–
WR-MW-05A	12/03/13	7,500	2,900	4,600	–	–	–	–	53	–	0.13	14	100	4,900	–	–
WR-MW-05A	06/30/14	9,500	2,400	7,100	–	–	–	–	68	–	<0.04	14	140	2,900	–	–
WR-MW-05A	11/04/14	12,000	3,500	8,500	–	–	–	–	60	–	<0.04	16	200	5,200	–	–
WR-MW-05B	02/09/03	–	–	–	0.62	–	–	–	–	–	–	–	–	–	–	–
WR-MW-05B	05/29/03	–	–	–	0.74 /D	–	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	10/03/02	–	–	–	<4.0 R-01 U	290 /D	8.8 /D	<3.0 R-01 U/D	95 /D	230	<0.50 U	<0.80 U/D	14	0.46	28	11
WR-MW-07A	02/12/03	490 /J+	0	490 /J+	0.66	210	9.5	<0.05 U	79	220	<0.04 U	<1.0 /U	–	–	–	–
WR-MW-07A	05/28/03	1,400	0	1,400	0.69	220	9.4	<0.05 U	70	230	0.12 /J-	0.60	–	–	–	–
WR-MW-07A	08/06/03	33,000 /D	0	33,000	0.56	200	8.5	<0.05	68	210	<0.04	0.92	–	–	–	–
WR-MW-07A	11/11/03	2,700	0	2,700	0.64	210	8.8	<0.05	74	220	<0.04	1.0	–	–	–	–
WR-MW-07A	02/10/04	–	–	–	0.64	–	–	–	–	–	–	0.84	–	–	–	–
WR-MW-07A	05/24/04	–	–	–	0.65	–	–	–	–	–	–	0.79	–	–	–	–
WR-MW-07A	09/03/04	–	–	–	0.69	–	–	–	–	–	–	0.85	–	–	–	–

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-07A	12/07/04	–	–	–	0.70	–	–	–	–	–	–	0.96	–	–	–	–
WR-MW-07A	03/02/05	–	–	–	0.71	–	–	–	–	–	–	0.88	–	–	–	–
WR-MW-07A	06/07/05	–	–	–	0.69	–	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/09/05	–	–	–	–	–	–	–	–	–	–	2.9	–	–	–	–
WR-MW-07A	09/14/05	–	–	–	0.7	–	–	–	–	–	–	0.88	–	–	–	–
WR-MW-07A	12/08/05	–	–	–	0.56	–	–	–	–	–	–	0.82	–	–	–	–
WR-MW-07A	03/14/06	–	–	–	0.46	–	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/27/06	–	–	–	0.40	–	–	–	–	–	–	0.66	–	–	–	–
WR-MW-07A	12/13/06	–	–	–	0.41	–	–	–	–	–	–	0.92	–	–	–	–
WR-MW-07A	06/12/07	–	–	–	–	–	–	–	–	–	–	0.75	–	–	–	–
WR-MW-07A	12/13/07	–	–	–	0.50	–	–	–	–	–	–	–	–	–	–	–
WR-MW-07A	06/24/10	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
WR-MW-08A	04/08/09	2,200	0	–	–	–	–	–	–	–	<0.04	2.0	77	850	46	6 J
WR-MW-08A	06/24/10	120	0	120	–	96	5.1	<0.05	97	650	<0.04	1.7	94	890	27	<25
WR-MW-08A	01/27/11	180	0	180	–	–	–	–	98	–	<0.04	2.1	75	210	–	–
WR-MW-08A	06/20/11	<100	0	<100	–	–	–	–	90	–	<0.04	2	100	200	–	–
WR-MW-08A	01/11/12	370	0	370	–	–	–	–	97	–	<0.04	2	93	44	–	–
WR-MW-08A	06/26/12	<100	0	<100	–	–	–	–	100	–	<0.04	1.6	77	11	–	–
WR-MW-08A	01/03/13	160	0	160	–	–	–	–	130	–	<0.04	1.7	73	76	–	–
WR-MW-08A	06/25/13	550	0	550	–	–	–	–	120	–	0.29	2.2	65	20	–	–
WR-MW-08A	12/03/13	270	0	270	–	–	–	–	160	–	<0.04	1.4	26	0.19	–	–
WR-MW-08A	06/30/14	<100	700	–	–	–	–	–	160	–	<0.04	1.1	26	0.60	–	–
WR-MW-08A	11/05/14	1,300	0.0	1,300	–	–	–	–	150	–	<0.04	1.1	27	0.068	–	–
WR-MW-09A	10/03/02	–	–	–	<4.0 R-01 U	190 /D	20 /D	<3.0 R-01 U/D	150 /D	310	<0.50 U	1.0 /D	12	0.57	34	28
WR-MW-09A	02/12/03	510 /J+	0	510 /J+	0.84	160	21	<0.05 U	150	320	<0.04 U	<1.0 /U	–	–	–	–
WR-MW-09A	06/26/03	1,500	–	–	0.76	160	22 /D	<0.05 U	160 /D	340	<0.04 U/R	3.6 /D	–	–	–	–
WR-MW-09A	08/06/03	1,000	–	–	0.64	140 /D	21 /D	<0.05	150 /D	370	<0.04	1.6	–	–	–	–
WR-MW-09A	11/11/03	870	–	870	0.66	140	21	0.07	160	420	<0.04	1.8	–	–	–	–
WR-MW-09A	02/10/04	–	–	–	0.57	–	–	–	–	–	–	1.2	–	–	–	–
WR-MW-09A	05/25/04	–	–	–	0.57	–	–	–	–	–	–	1.2	–	–	–	–
WR-MW-09A	09/02/04	320	–	–	0.61	110	12	**2.2**	130	520	<0.04 /R	2.0	80	1,800	63	74
WR-MW-09A	12/08/04	270	–	<100	0.61	110	12	**2.2**	130	520	<0.04	1.4	130	1,200	37	11

Table B-3. Historical Geochemical Parameters

Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-09A	12/08/04	<100	–	–	0.62	130	9.8	**2.4**	140	780	<0.04	1.4	150	1,700	38	7.6
WR-MW-09A	03/01/05	<100	–	–	1.1	110	9.6	0.94	140	760	0.06	1.9	170	3,100	29	<5.0
WR-MW-09A	06/07/05	<100	<0.0	<100	0.98	94	11	0.71	130	610	<0.04	–	120	4,000	15 J	50
WR-MW-09A	06/09/05	–	–	–	–	–	–	–	–	–	–	2.0	–	–	–	–
WR-MW-09A	09/14/05	250	500	–	1.3	120	8.1	**1.4**	130	920	<0.04	4.2	290	4,100	17 J	4 J
WR-MW-09A	12/06/05	270	–	–	0.73	130	4.9	**2.5**	140	1,200	<0.04	2.0	490	5,200	16 J	15 J
WR-MW-09A	12/06/05	270	–	–	0.73	130	4.9	**2.4**	140	1,100	<0.04	2.1	460	4,200	15 J	13 J
WR-MW-09A	03/14/06	1,200	1,000	200	0.71	130	4.1	**1.8**	140	1,100	<0.04	1.5	500	5,600	22 J	32
WR-MW-09A	06/26/06	5,500	4,200	1,300	0.58	140	0.19 J	<0.05 UJ	51	1,200	0.85	200	440	8,800	40	26
WR-MW-09A	06/29/06	–	–	–	–	–	–	–	–	–	–	190	–	–	–	–
WR-MW-09A	09/26/06	7,900	–	–	–	150	<0.05	<0.05	31	1,400	0.77	69	300	8,300	32	11 J
WR-MW-09A	12/13/06	6,400	–	–	0.82	140	<0.05	<0.05	63	1,300	1.2	14	390	7,900	73	<25
WR-MW-09A	03/27/07	10,000	4,200	5,800	–	160	<0.05	<0.05	96	1,300	0.09	10	420	8,700	62	38
WR-MW-09A	07/12/07	13,000	3,500	9,500	1.5	180	<0.05	<0.05	130	1,400	0.15	7.4	420	8,900	88	25 J
WR-MW-09A	09/26/07	13,000	–	–	–	190	<0.05	<0.05	110	1,400	0.23	11	460	5,500	<25	25 J
WR-MW-09A	12/12/07	12,000	4,000	8,000	1.1	200	<0.05	–	130	1,300	0.16	11	460	7,800	29	<25
WR-MW-09A	03/27/08	13,000	7,100	5,900	–	210	<0.05	<0.05	130	1,300	0.08	10	420	9,000	76	42
WR-MW-09A	10/08/08	9,000	7,000	2,000	–	180	<0.05	<0.05	130	1,300	<0.04	8.7	490	7,900	120	39
WR-MW-09A	04/09/09	12,000	3,000	9,000	–	190	0.14	<0.05	140	1,400	<0.04	6.1	290	3,300	42	17 J
WR-MW-09A	06/24/10	890	9,000	–	–	230	<0.05	<0.05	110	1,500	<0.04	38	440	2,000	80	<25
WR-MW-09A	01/26/11	11,000	0	11,000	–	–	–	–	74	–	<0.04	49	420	3,000	–	–
WR-MW-09A	06/20/11	10,000	2,000	8,000	–	–	–	–	59	–	0.05	63	350	1,400	–	–
WR-MW-09A	01/10/12	11,000	4,400	6,600	–	–	–	–	33	–	<0.04	47	270	1,200	–	–
WR-MW-09A	06/26/12	9,900	4,000	5,900	–	–	–	–	43	–	<0.04	61	320	2,400	–	–
WR-MW-09A	01/03/13	10,000	3,800	6,200	–	–	–	–	47	–	0.19	57	270	2,300	–	–
WR-MW-09A	06/25/13	11,000	1,800	9,200	–	–	–	–	68	–	0.14	50	340	2,900	–	–
WR-MW-09A	12/03/13	12,000	5,400	6,600	–	–	–	–	76	–	0.07	51	310	2,700	–	–
WR-MW-09A	06/30/14	8,400	2,300	6,100	–	–	–	–	23	–	0.04	53	290	5,800	–	–
WR-MW-09A	11/04/14	9,300	3,700	5,600	–	–	–	–	31	–	<0.04	42	180	1,600	–	–
WR-MW-10A	12/06/05	2,300	0	2,300	0.84	170	13	0.18	150	490	<0.04	1.7	66	89	21 J	20 J
WR-MW-10A	03/14/06	–	–	–	–	–	–	–	–	–	–	2.0	–	–	–	–
WR-MW-10A	09/25/06	–	–	–	–	–	–	–	–	–	–	1.5	–	–	–	–

Table B-3. Historical Geochemical Parameters

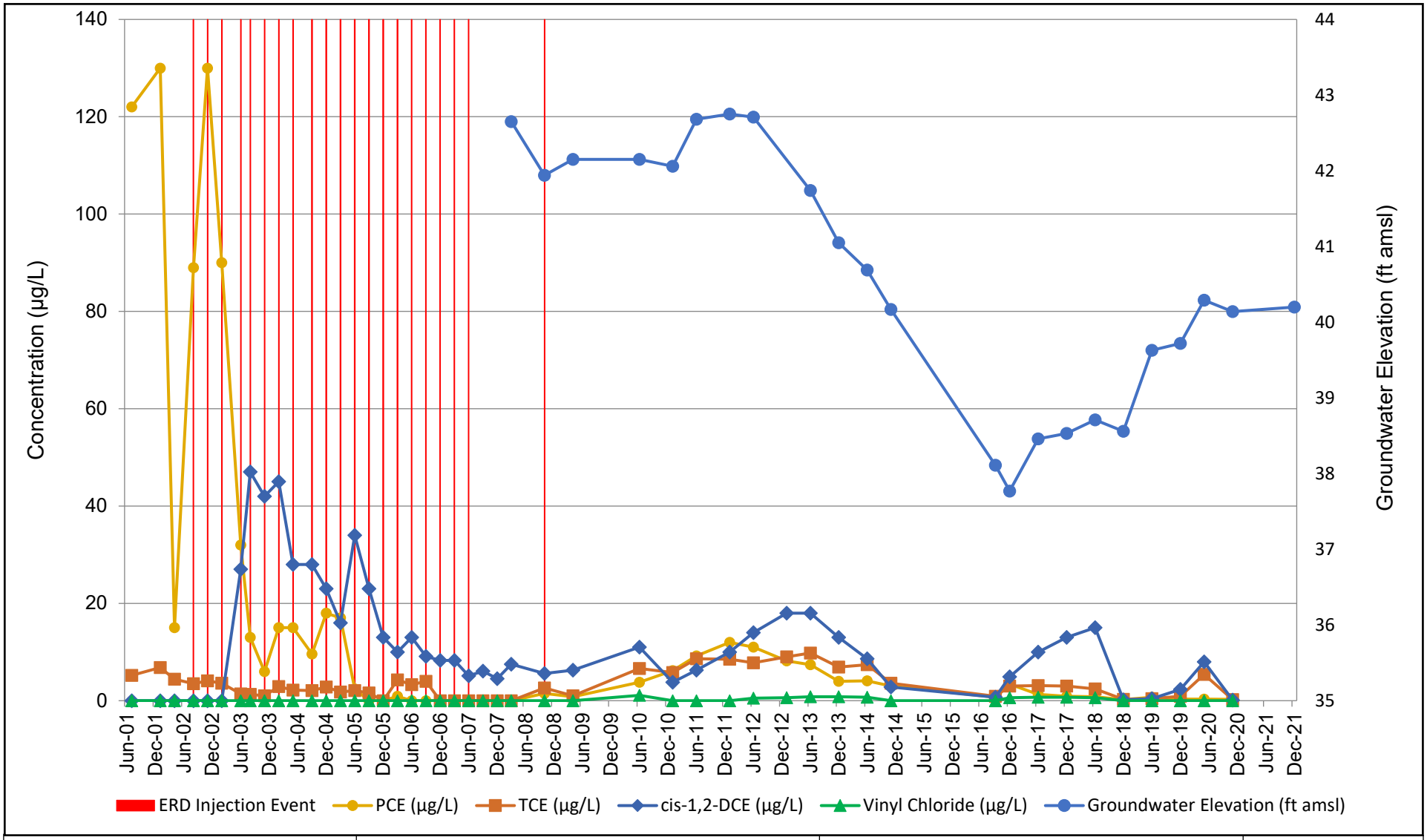
Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-10A	12/13/06	1,100	–	–	–	180	11	<0.05	150	560	–	1.5	120	9,400	47	<25
WR-MW-10A	03/26/07	–	–	–	–	–	–	–	–	–	–	2.0	–	–	–	–
WR-MW-10A	09/25/07	–	–	–	–	–	–	–	–	–	–	2.4	–	–	–	–
WR-MW-10A	12/13/07	–	–	–	–	–	–	–	–	–	–	2.0	220	2,900	14 J	6 J
WR-MW-10A	03/28/08	–	–	–	–	–	–	–	–	–	–	2.0	–	–	–	–
WR-MW-10A	10/08/08	–	–	–	–	–	–	–	–	–	–	2.0	–	–	–	–
WR-MW-10A	04/08/09	1,500	2,000	–	–	180	0.07	<0.05	92	920	<0.04	6.7	250	2,300	50	14 J
WR-MW-10A	09/28/09	–	–	–	–	–	–	–	–	–	–	5.4	310	1,200	54	11 J
WR-MW-10A	06/24/10	1,200	–	–	–	240	<0.05	<0.05	99	1,100	<0.04	2.3	270	420	30	<25
WR-MW-10A	01/27/11	2,700	1,000	1,700	–	–	–	–	93	–	<0.04	2.9	250	92	–	–
WR-MW-10A	06/21/11	1,500	1,000	500	–	–	–	–	86	–	0.09	2.8	210	190	–	–
WR-MW-10A	01/11/12	15,000	1,000	14,000	–	–	–	–	94	–	<0.04	1.7	200	320	–	–
WR-MW-10A	06/27/12	2,300	900	1,400	–	–	–	–	98	–	<0.04	1.3	140	260	–	–
WR-MW-10A	01/04/13	2,800	1,000	1,800	–	–	–	–	180	–	<0.04	1.6	110	200	–	–
WR-MW-10A	06/26/13	1,800	0	1,800	–	–	–	–	100	–	0.29	2.0	120	170	–	–
WR-MW-10A	12/04/13	1,100	200	900	–	–	–	–	95	–	0.04	1.8	68	190	–	–
WR-MW-10A	07/01/14	260	150	110	–	–	–	–	93	–	<0.04	1.5	70	210	–	–
WR-MW-10A	11/05/14	3,700	0.0	3,700	–	–	–	–	76	–	<0.04	2.2	74	320	–	–
WR-MW-11A	04/08/09	490	0	490	–	220	4.8	<0.05	110	850	<0.04	1.9	140	86	16 J	6 J
WR-MW-11A	09/28/09	–	–	–	–	–	–	–	–	–	–	1.6	210	74	0.20 J	<0.025 U
WR-MW-11A	06/24/10	<100	0	<100	–	180	6.8	<0.05	130	740	0.16	4.1	160	0.590	<25	<25
WR-MW-11A	01/27/11	<100	0	<100	–	–	–	–	130	–	<0.04	1.5	130	320	–	–
WR-MW-11A	06/21/11	<100	0	<100	–	–	–	–	110	–	<0.04	1.4	110	310	–	–
WR-MW-11A	01/11/12	<100	0	<100	–	–	–	–	110	–	<0.04	1.3	120	380	–	–
WR-MW-11A	06/26/12	<100	0	<100	–	–	–	–	120	–	<0.04	1.1	130	380	–	–
WR-MW-11A	01/03/13	<100	0	<100	–	–	–	–	130	–	<0.04	1.6	94	160	–	–
WR-MW-11A	06/25/13	<100	0	<100	–	–	–	–	120	–	0.05	2.0	110	270	–	–
WR-MW-11A	12/03/13	<100	0	<100	–	–	–	–	110	–	<0.04	2.0	87	85	–	–
WR-MW-11A	07/01/14	<100	0	<100	–	–	–	–	110	–	<0.04	1.4	110	120	–	–
WR-MW-11A	11/05/14	<100	0	<100	–	–	–	–	110	–	<0.04	1.1	100	91	–	–
WR-MW-12A	12/06/05	1,400	0	1,400	0.55	140	13	<0.05	160	360	<0.04	1.5	35	0.69	20 J	8 J
WR-MW-12A	03/14/06	–	–	–	–	–	–	–	–	–	–	1.5	140	0.69	20 J	8 J

Table B-3. Historical Geochemical Parameters

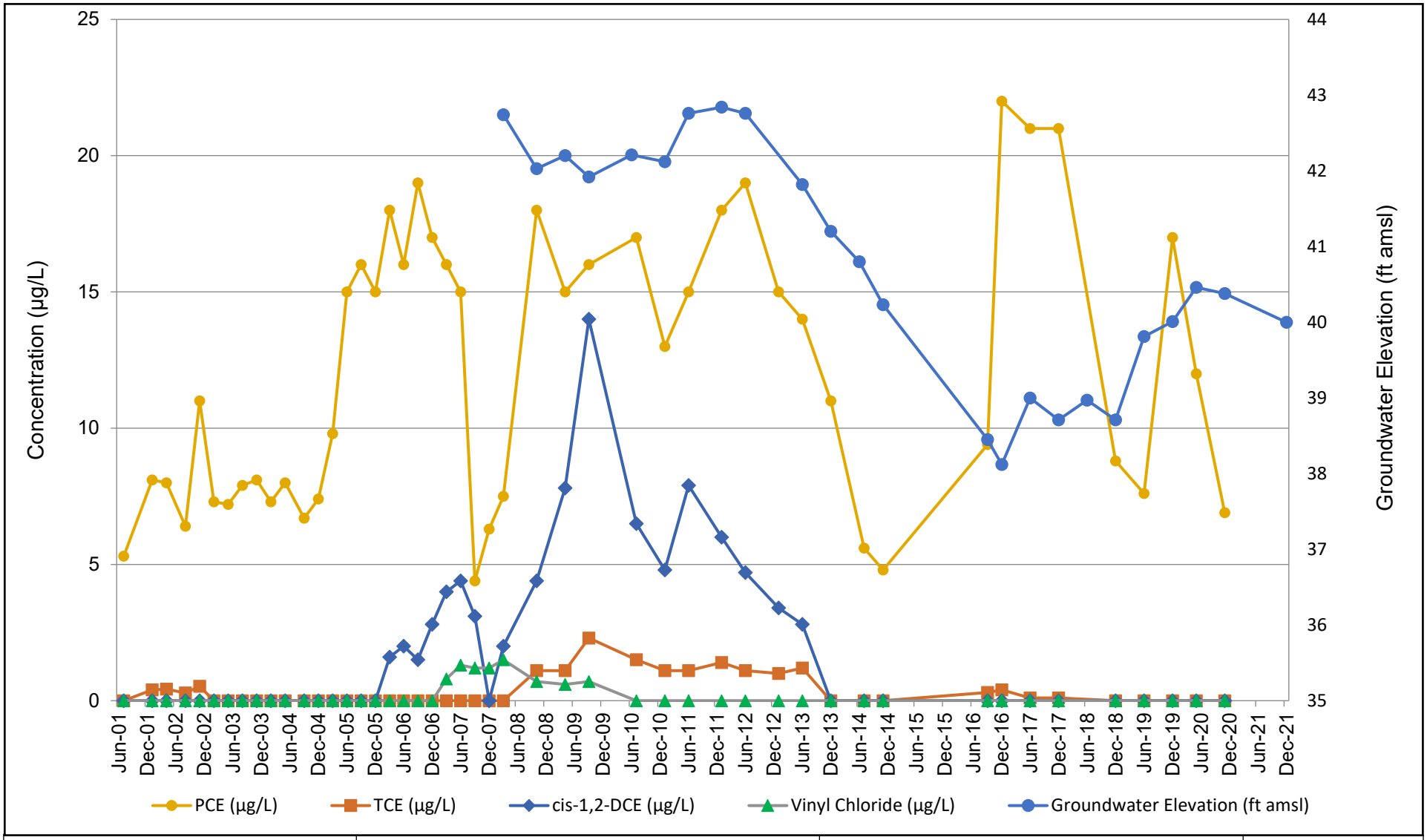
Analyte		Total Iron (µg/L)	Ferrous Iron (Fe^{2+}) (µg/L)	Ferric Iron (Fe^{3+}) (µg/L)	Bromide (mg/L)	Chloride (mg/L)	Nitrate (as N) (mg/L)	Nitrite (as N) (mg/L)	Sulfate as SO4 (mg/L)	Alkalinity Total (mg/L)	Sulfide (mg/L)	TOC (mg/L)	Carbon Dioxide (mg/L)	Methane (µg/L)	Ethene (ng/L)	Ethane (ng/L)
Analyte Group		Metals	Metals	Metals	Anions	Anions	Anions	Anions	Anions	GenChem	GenChem	GenChem	Dis.Gas	Dis.Gas	Dis.Gas	Dis.Gas
MCL		None	None	None	None	None	45	1	None	None	None	None	None	None	None	None
Historical MCL Exceedances?		No	No	No	No	No	No	Yes	No	No	No	No	No	No	No	No
Well ID	**Sampled**															
WR-MW-12A	06/27/06	–	–	–	–	–	–	–	–	–	–	1.3	140	8,100	36	8 J
WR-MW-12A	09/26/06	–	–	–	–	–	–	–	–	–	–	1.4	140	8,100	36	8 J
WR-MW-12A	12/13/06	150	–	–	–	140	5.0	0.31	150	730	<0.04	1.5	260	8,200	17 J	<0.25
WR-MW-12A	12/13/06	120	–	–	–	130	6.3	0.25	140	680	<0.04	1.4	260	8,600	29	<0.25
WR-MW-12A	03/26/07	–	–	–	–	–	–	–	–	–	–	1.9	–	–	–	–
WR-MW-12A	06/11/07	–	–	–	–	–	–	–	–	–	–	–	290	5,600	94	26
WR-MW-12A	09/25/07	–	–	–	–	–	–	–	–	–	–	2.3	–	–	–	–
WR-MW-12A	12/13/07	–	–	–	–	–	–	–	–	–	–	3.3	340	4,500	21 J	<25 U
WR-MW-12A	12/13/07	–	–	–	–	–	–	–	–	–	–	1.8	–	–	–	–
WR-MW-12A	10/08/08	–	–	–	–	–	–	–	–	–	–	2.7	–	–	–	–
WR-MW-12A	04/08/09	1,800	–	–	–	180	0.11	<0.05	130	1,200	<0.04	3.0	420	6,100	43	37
WR-MW-12A	09/28/09	–	–	–	–	–	–	–	–	–	–	2.5	450	5,900	51	6 J
WR-MW-12A	06/24/10	2,400	4,000	–	–	150	<0.05	<0.05	94	980	<0.04	4.7	420	1,500	67	<25
WR-MW-12A	01/27/11	2,400	3,000	–	–	–	–	–	110	–	<0.04	6.3	330	1,200	–	–
WR-MW-12A	06/21/11	2,000	2,000	0	–	–	–	–	3.1	–	<0.04	6.7	230	130	–	–
WR-MW-12A	01/11/12	2,000	2,000	0	–	–	–	–	92	–	<0.04	4.1	280	460	–	–
WR-MW-12A	06/27/12	1,700	1,900	–	–	–	–	–	100	–	<0.04	2.9	170	210	–	–
WR-MW-12A	01/04/13	1,800	1,800	0	–	–	–	–	120	–	0.1	2.9	130	140	–	–
WR-MW-12A	06/26/13	1,100	0	1,100	–	–	–	–	130	–	0.09	2.8	120	84	–	–
WR-MW-12A	12/04/13	1,000	1,000	0	–	–	–	–	120	–	<0.04	3.1	130	160	–	–
WR-MW-12A	07/01/14	1,000	950	50	–	–	–	–	110	–	<0.04	2.9	120	98	–	–
WR-MW-12A	11/05/14	840	400	440	–	–	–	–	110	–	<0.04	2.7	120	240	–	–

Notes:
µg/L= micrograms per liter
Bold/highlight= exceeds State MCL
J= Estimated value; (+) high (-) low
MCL= Maximum Contaminant Level
mg/L= milligrams per liter
N= nitrogen
N/A= not applicable
TOC= Total organic carbon
U or "<"= Not detected

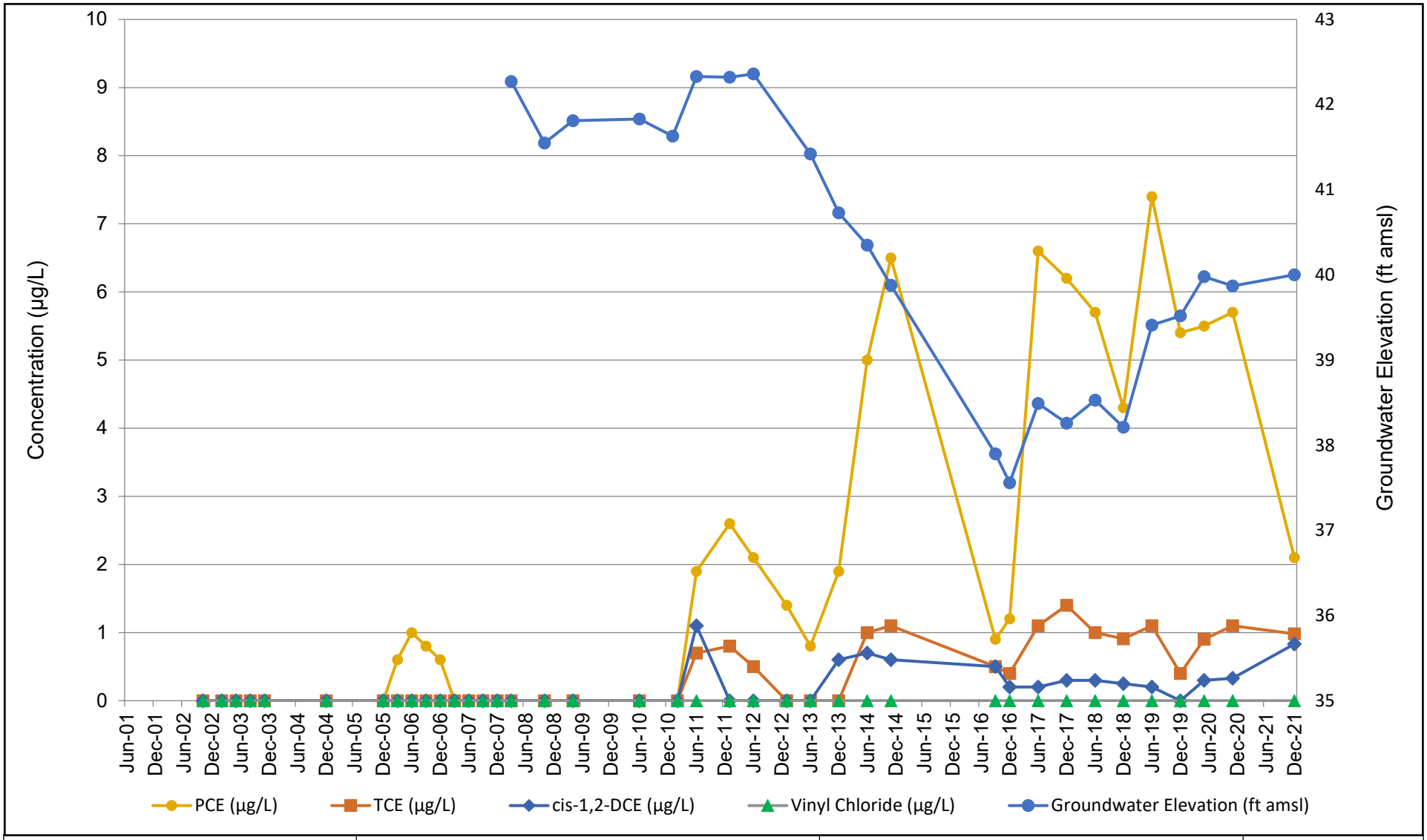
Appendix C. Time-Series Plots



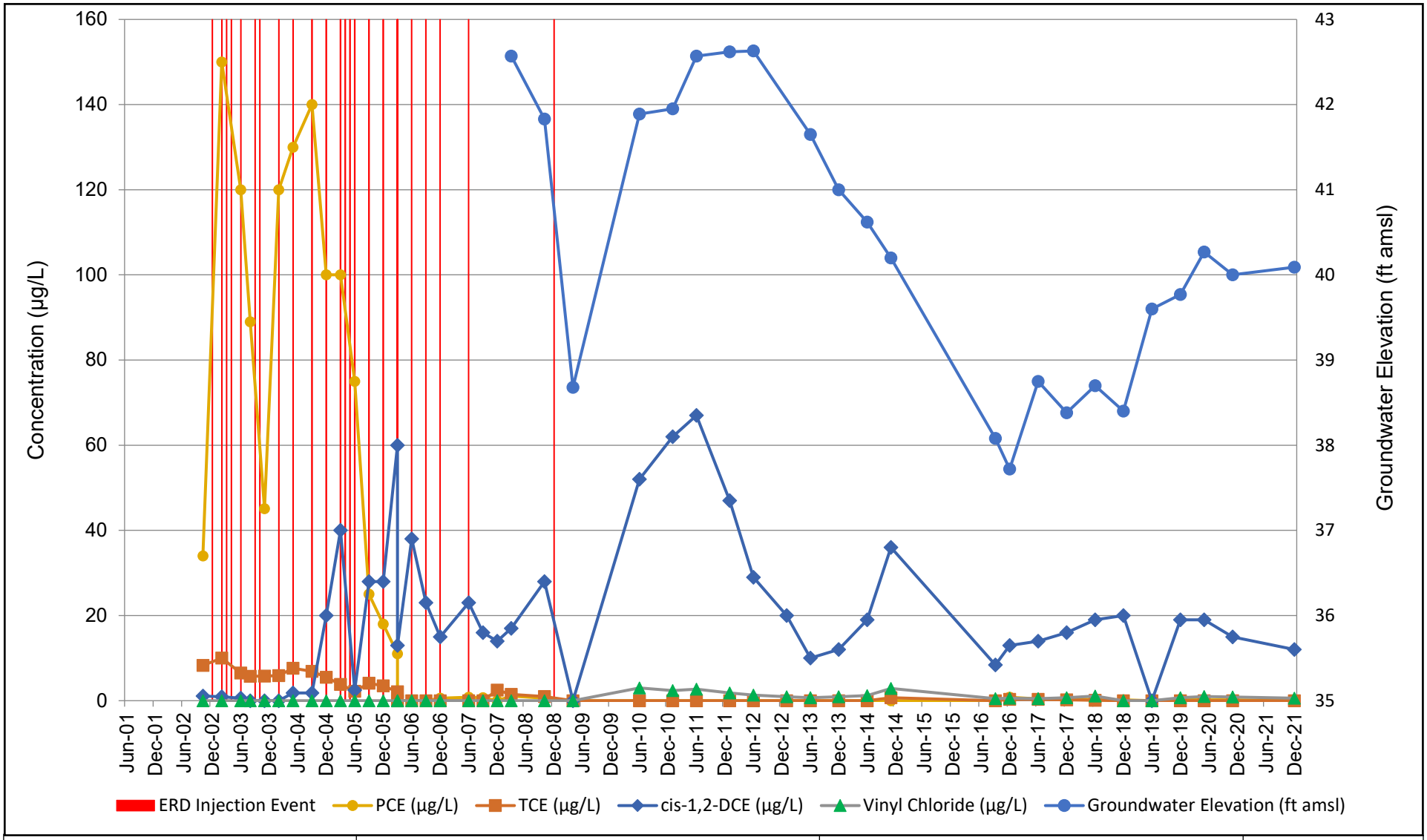
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-01**	FIGURE **C-1**



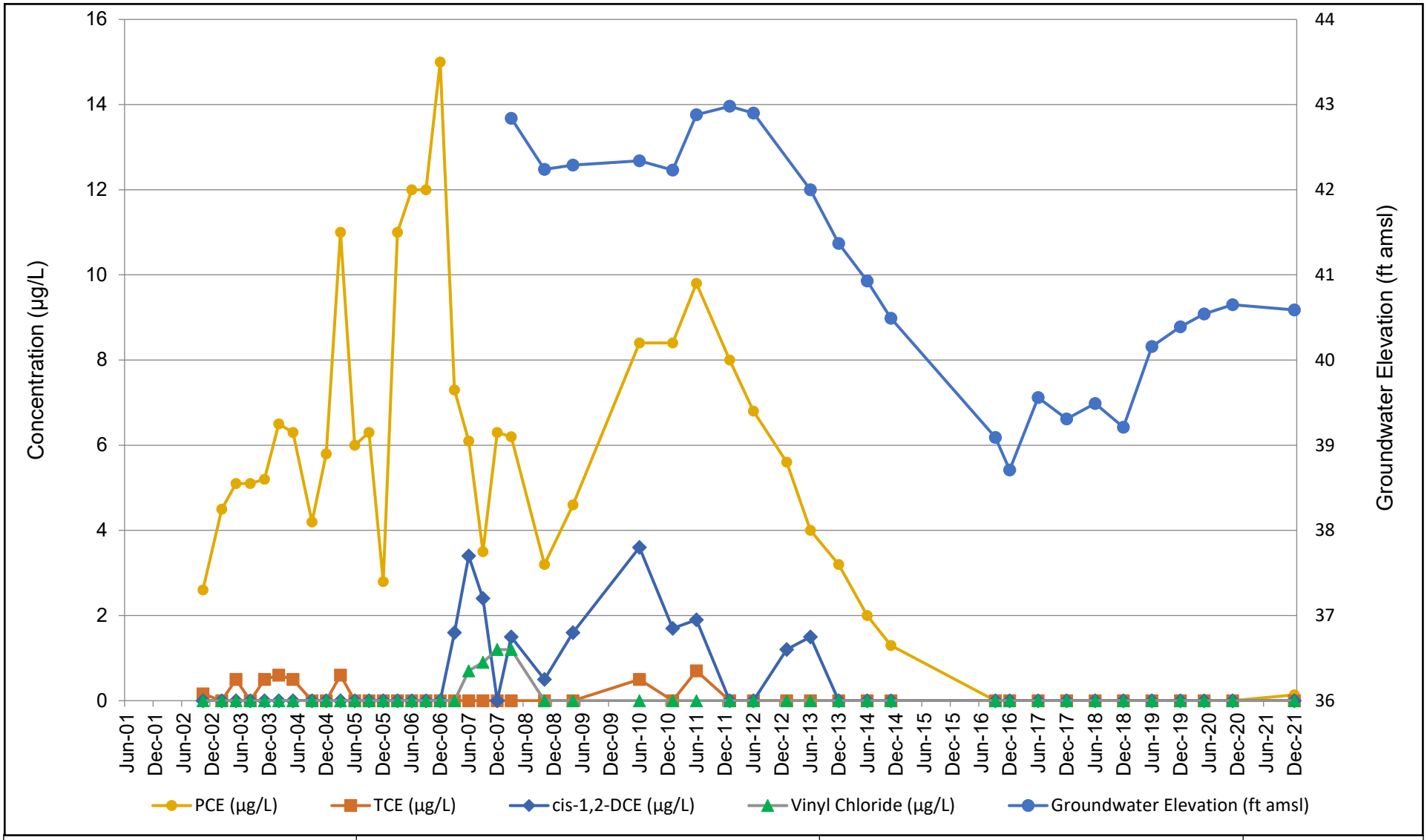
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-02**	FIGURE **C-2**



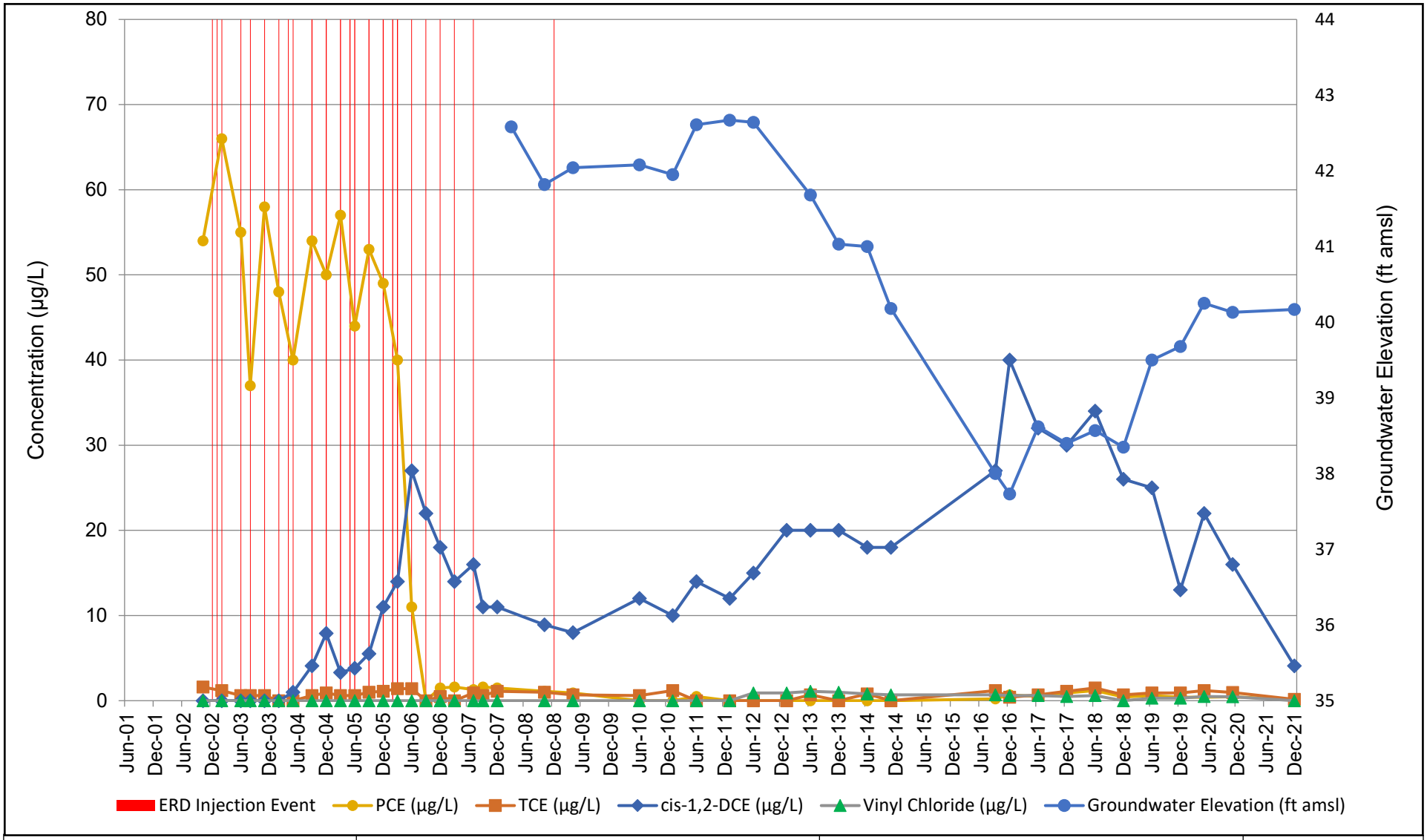
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-04A**	FIGURE **C-3**



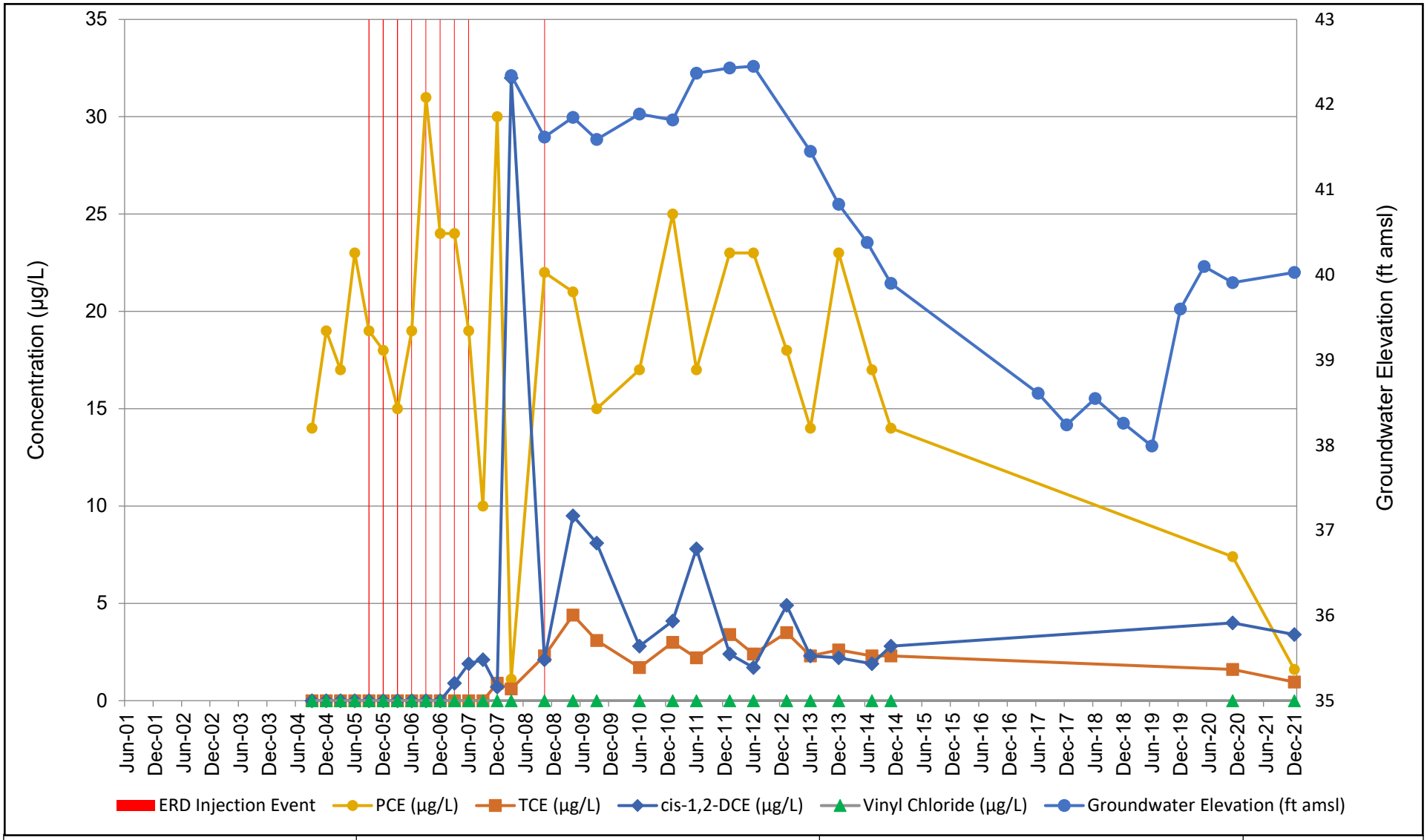
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-05A**	FIGURE **C-4**



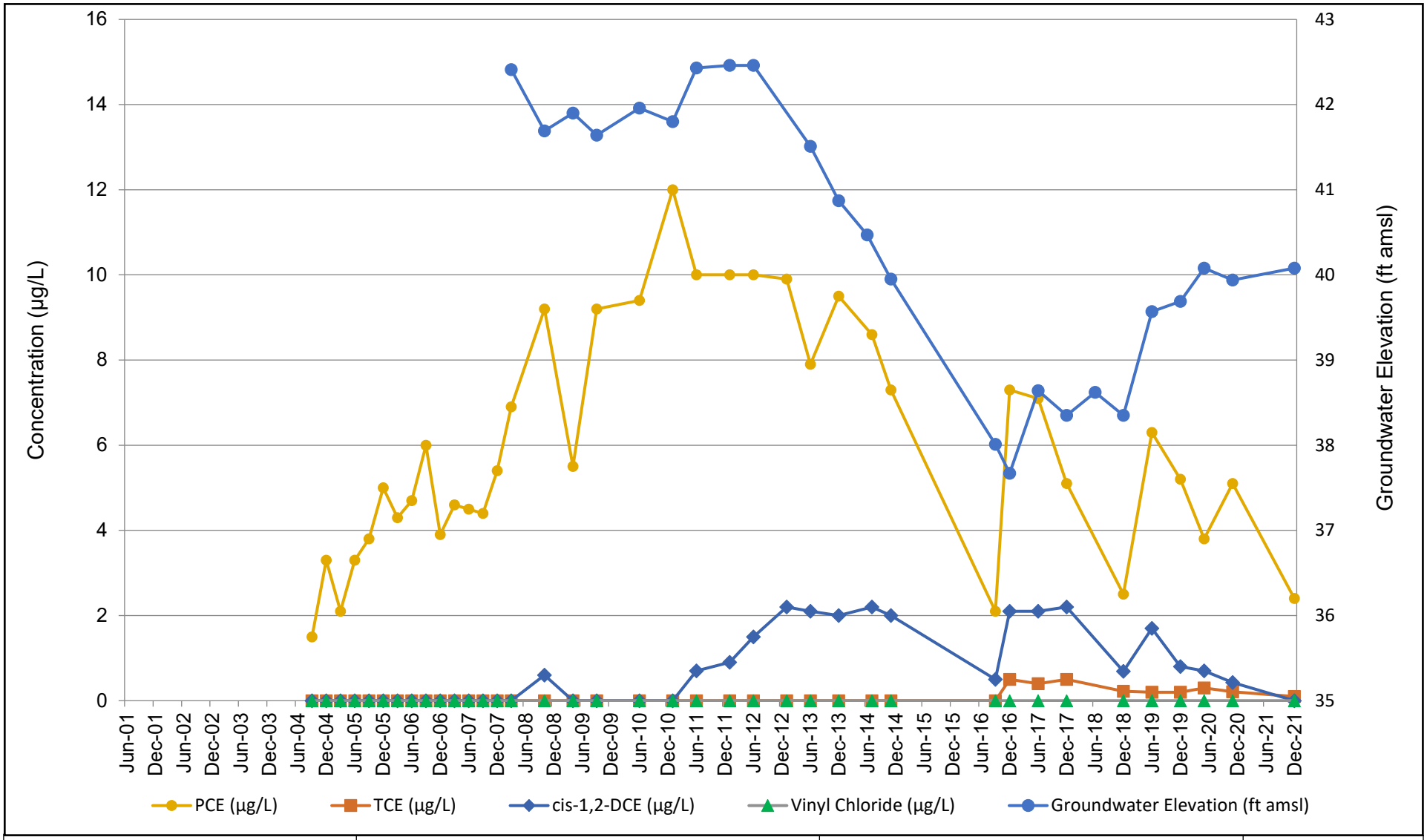
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-08A**	FIGURE **C-5**



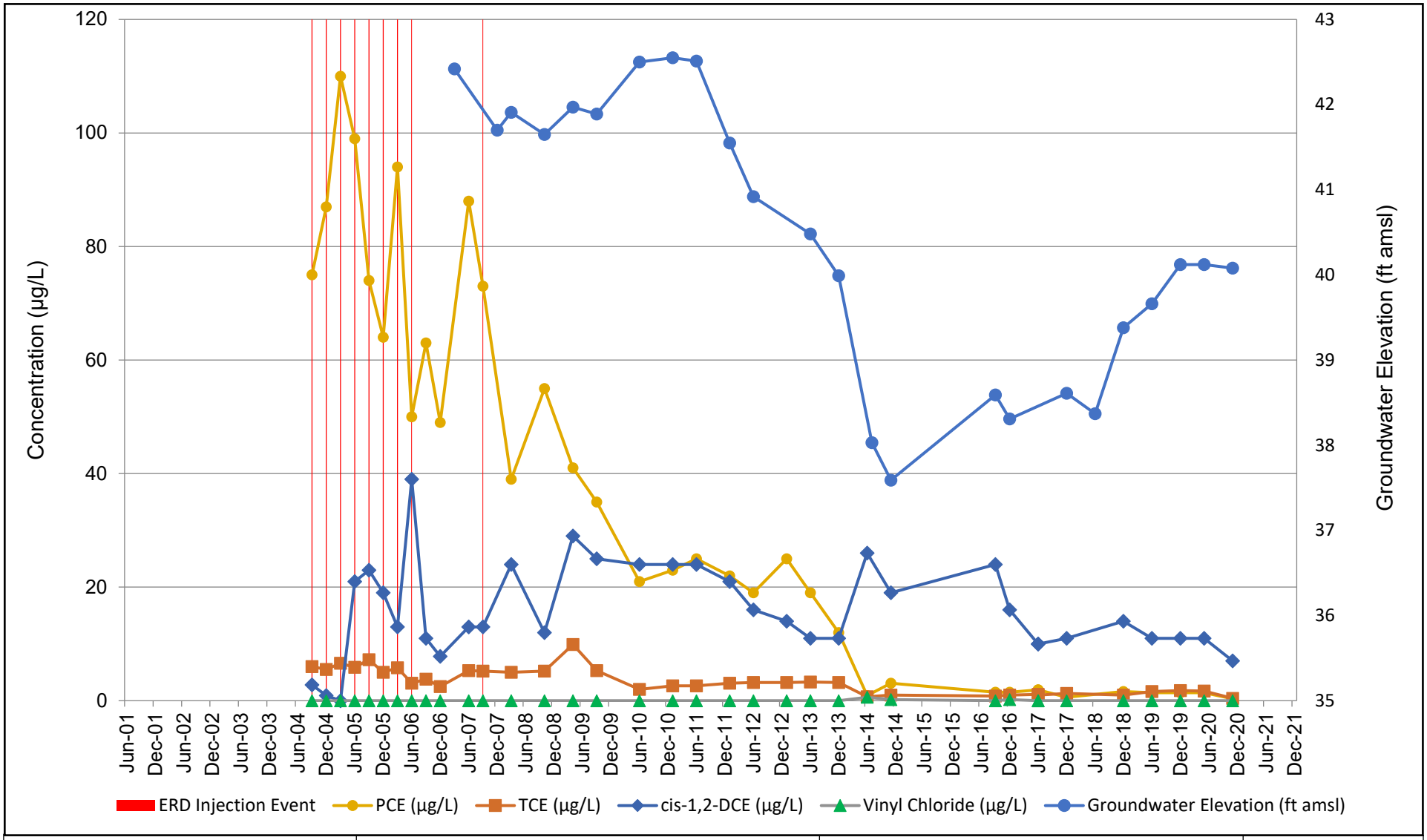
Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-09A**	FIGURE **C-6**



Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-10A**	FIGURE **C-7**



Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-11A**	FIGURE **C-8**



Ahtna	2021 Semiannual Groundwater Monitoring Report Former United States Disciplinary Barracks Lompoc, California	**Time-Series Plots** **WR-MW-12A**	FIGURE **C-9**

Appendix D. Responses to Regulator Comments

Review Comments

Project	Environmental Long-Term Monitoring and Inspection, Former U.S. Disciplinary Barracks (USDB), Lompoc, California			
Document	2021 Second Semiannual Groundwater Monitoring Report, Washrack Site	**Version Reviewed**: Draft	**Comments Received**: 08/16/2022	**Response Date**: 09/26/22
Contractor	Ahtna Global, LLC			
Contract No.	W912PL18D0044, Delivery Order W912PL21F0041			

Reviewer: Bryan Little Central Coast Water Board		**Date:** 8/16/22	**Date:** 9/26/22
No.	**Reference (page/para.)**	**Review Comment**	**Response**
1.	Section 2.0, Page 2, Paragraph 2 *"…the Sewage Treatment Plant"*	This facility needs to be investigated for PFAS.	Acknowledged. PFAS will be assessed under a separate contract.
2.	Section 2.1, Page 3, Paragraph 2	Please state the depth that the aquitard which separates the Upper and Lower aquifers, occurs.	Clarification. Historical documentation of the exact aquitard depth has not been able to be located; however, it is presumed that a layer of low permeability soil exists within the range of 85 to 130 ft bgs. Revised. Additional text has been added to Section 2.1.
3.	Section 2.1, Page 3, Paragraph 3 *"…(WR-MW-08A and most downgradient (WR-MW04A) wells."*	Which are how far apart? Please state.	Agreed. The text has been revised to state: *"The flow direction within the A-Zone is typically northwest at a low gradient with less than 1 foot of elevation difference between the most upgradient (WR-MW-08A) and most downgradient (WR-MW-04A) wells, located approximately 250 ft apart."*
4.	Section 2.1, Page 3, Paragraph 3 *"…groundwater has risen slowly across the Site in recent years, with most rising 1-2 ft since 2016."*	We cannot easily verify this statement. Please see comments in the time-series plots; WB staff feel that GW level data (hydrographs) in conjunction with the concentration data would be helpful, and would help support this sentence in question.	Agreed. Groundwater elevation data has been added to the time-series plots in Appendix C.
5.	Section 2.2, Page 4, Paragraph 4 Referencing "abandoned" wells	Should change this and following uses to 'destroyed', to prevent ambiguity.	Agreed. The text has been revised accordingly.
6.	Section 3.2, Page 7, Paragraph 2 *"Obstructions were noted in two monitoring wells, WR-MW-01 and WR-MW-02, approximately 15 to 20 ft from the bottom of the well (measured total depth) and PDBs were unable to reach groundwater."*	Have efforts been made to remove the obstruction in these wells? These are important wells, that historical data show require additional monitoring based on recent trends, please try to remove obstruction.	Clarification. The wells are only partially obstructed. Though standard-sized passive diffusions bags (PDBs) could not reach groundwater during the December 2021 sampling event, smaller-diameter PDBs were successfully installed in the wells in June 2022. The source of the obstructions is unknown and, thus far, using smaller-diameter PDBs has been the preferred approach rather than risking damage to the wells by attempting to remove the obstructing objects. It is anticipated that sample collection will resume at these wells beginning with the 2022 second semiannual groundwater monitoring event.

Reviewer: Bryan Little Central Coast Water Board		**Date:** 8/16/22	**Date:** 9/26/22
No.	**Reference (page/para.)**	**Review Comment**	**Response**
7.	Section 3.2, Page 7, Paragraph 3 *"Several wells were rethreaded and had new bolts installed during the sampling event (Appendix A; December 16, 2021). Ongoing maintenance of the monitoring wells is needed to maintain functionality."*	Thank you for this effort.	Acknowledged.
8.	Section 3.4, Page 7, Paragraph 2 *"PDBs were left in the wells for two weeks, exceeding the minimum equilibration time for site COCs before sample collection"*	This is acceptable for this event, however due to the relatively flat groundwater gradient, and corresponding low hydraulic conductivity, please allow a longer equilibration time. We note that new bags were deployed during the current sampling event which will yield a half-year equilibration time which is preferred.	Acknowledged. PDB installation is planned to be performed during each semiannual monitoring event, allowing for approximately half-year equilibration times.
9.	Section 3.5, Page 7, Paragraph 1 *"VOC analysis was performed by method EPA 8260C."*	We have typically used 8260B in the past. Please explain why the method was switched to 8260C and differences between the two methods.	Clarification. The method version was updated to reflect the latest version which the subcontracted laboratory is certified to perform. The version update is reflected in the *Quality Assurance Project Plan/Work Plan* (Ahtna, 2021) which was finalized prior to the December 2021 sampling event. Version updates occur periodically to reflect evolving industry standards and technologies. There is no effect on data quality.
10.	Section 5.1, Page 10, Paragraph 1 Referencing the groundwater elevation at WR-MW-01B	The vertical gradient is upward, which has likely contributed to Lower aquifer remaining relatively free of COCs.	Clarification. The vertical gradient has a downward direction as indicated by the lower groundwater elevation in WR-MW-01B (36.99 ft amsl) compared to the groundwater elevation in WR-MW-01 (40.19 ft amsl). However, the B-zone aquifer continues to have either non-detectable or very low COC concentrations.
11.	Page 10, General	Report should include a Conclusions and Recommendations section and discuss accordingly.	Agreed. The text has been revised accordingly.
12.	Page 10, General	Water Board staff would like to recognize that there has historically, been much beneficial work conducted at this site, and we would like to close this site. Currently, concentrations of COCs are low enough in most wells to support an industrial closure, however, decreasing trends in all wells would be required. As such, there some wells that would prevent closure at this time (see notes in Appendix C). Water Board staff encourage Ahtna and USACE to consider a limited injection program/event to target the remaining zones with increasing or stable concentrations. We realize that previous injection infrastructure has been destroyed, however, we would like to work with the Stakeholders to find a cost-effective approach, such as the possible use of existing monitoring wells that are suitable for conversion to an injection well (based on concentrations and locations).	Acknowledged. Discussions are ongoing to determine the path toward site closure. Results of these discussions will be presented to the Water Board in the near future.

Reviewer: Bryan Little Central Coast Water Board		**Date:** 8/16/22	**Date:** 9/26/22
No.	**Reference (page/para.)**	**Review Comment**	**Response**
13.	Appendix A. Daily Field Reports December 2, 2021 PDB Installation Figure Referencing “depth of PDB”	How is this value derived? Is this a direct measurement?	Clarification. PDB tethers, consisting of polypropylene rope and split-ring hanging stations, were secured to the well cap on one end and a stainless steel weight on the downhole side. The length of rope between the hanging station and the end tied to the well cap was measured directly.
14.	Appendix A. Daily Field Reports December 16, 2021 Purging and Sampling Data Sheet Referencing field readings of temperature, pH, conductivity, and oxidation-reduction potential	Can't these parameters be measured with the remaining water in the PDB after the sample has been collected (sample first to prevent volatilization, and to ensure sufficient volume is obtained)	Clarification. VOCs are able to diffuse across the semipermeable PDB membranes. However, many other compounds, including those that effect pH, conductivity, and ORP, cannot pass through the membranes. Therefore, differing chemistries exist on either side of the membrane and readings of groundwater quality parameters taken from PDB water would not be representative of actual aquifer conditions.
15.	Appendix B. Historical Data Tables Table B-1. Historical Volatile Organic Compound Results Referencing WR-MW-02 results from 09/25/07 and 11/04/14	These dates don't fall in order.	Agreed. Appendix B has been revised accordingly.
16.	Appendix B. Historical Data Tables Table B-1. Historical Volatile Organic Compound Results Referencing WR-MW-10A results from 12/16/21	What happened differently here, that a sample was finally collected for the first time since 2008?	Clarification. Table B-1 was sorted incorrectly and has been revised. There was a gap in sample collection at WR-MW-10A that spanned the September 2016 through May 2020 sampling events. The December 2021 COC concentrations were lower than the previous results (November 2020), but the change was not as great compared to the 2008 sampling results.
17.	Appendix C. Time-Series Plots Figure C-1. Time Series Plot WR-MW-01 Referencing decreased COC concentrations ~2015	This could be due to drought, water level data would be helpful on these charts. Rebounds appear to correlate with wet than normal years.	Acknowledged. Groundwater elevation data has been added to the plots.
18.	Appendix C. Time-Series Plots Figure C-1. Time Series Plot WR-MW-01	Rebounds spikes are trending downward.	Agreed.
19.	Appendix C. Time-Series Plots Figure C-2. Time Series Plot WR-MW-02	No obvious decreasing trend here; not likely able to close as such.	Acknowledged.
20.	Appendix C. Time-Series Plots Figure C-3. Time Series Plot WR-MW-04A	Looks like an increasing trend. Wouldn't be able to close as it is.	Acknowledged.
21.	Appendix C. Time-Series Plots Figure C-4. Time Series Plot WR-MW-05A	Concentrations appear stable, no VC shows degradation has stalled at cis-1,2 DCE.	Acknowledged.
22.	Appendix C. Time-Series Plots Figure C-6. Time Series Plot WR-MW-08A	This well has cleaned up nicely. Due to it's somewhat upgradient location, could be converted to an injection well.	Acknowledged.

Reviewer: Bryan Little Central Coast Water Board		**Date:** 8/16/22	**Date:** 9/26/22
No.	**Reference (page/para.)**	**Review Comment**	**Response**
23.	Appendix C. Time-Series Plots Figure C-7. Time Series Plot WR-MW-09A	This recent downward trend could be natural. Not likely related to water level due to wet years occurring in middle of declining timeframe, and known drought years (2014-2017) staying moderate. Not related to sample method, or change would be more abrupt.	Acknowledged.

Attachments

Attachment 1. Laboratory Report

BC LABORATORIES, INC.

Work Order Number: 2139227

Laboratory Documentation Requirements
For Data Validation of
Volatiles Analysis

Prepared By
BC Laboratories

For Ahtna Global, LLC

21044.006.01.000

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Table of Contents

Case Narrative

Sample Receipt

Work Order: 2139227
COC Number:
Cooler 2 was received at 2.6 °C
Default Cooler was received at 2.6 °C
Samples were checked for preservation. Where applicable, sample preservation was adjusted in the laboratory.

Requested Analysis

Method	Instrument
EPA-8260C	MS-V5

Sample Qualifier Summary

The Continuing Calibration Verification (CCV) recovery was not within established control limits.

Lab Number	Method	Analyte
2139227-01	EPA-8260C	Bromomethane
2139227-01	EPA-8260C	1,2-Dichlorobenzene
2139227-02	EPA-8260C	Bromomethane
2139227-02	EPA-8260C	1,2-Dichlorobenzene
2139227-03	EPA-8260C	Bromomethane
2139227-03	EPA-8260C	1,2-Dichlorobenzene
2139227-04	EPA-8260C	Bromomethane
2139227-04	EPA-8260C	1,2-Dichlorobenzene
2139227-05	EPA-8260C	Bromomethane
2139227-05	EPA-8260C	1,2-Dichlorobenzene
2139227-06	EPA-8260C	Bromomethane
2139227-06	EPA-8260C	1,2-Dichlorobenzene
2139227-07	EPA-8260C	Bromomethane
2139227-07	EPA-8260C	1,2-Dichlorobenzene
2139227-08	EPA-8260C	Bromomethane
2139227-08	EPA-8260C	1,2-Dichlorobenzene
2139227-09	EPA-8260C	Bromomethane
2139227-09	EPA-8260C	1,2-Dichlorobenzene
2139227-10	EPA-8260C	Bromomethane
2139227-10	EPA-8260C	1,2-Dichlorobenzene
2139227-11	EPA-8260C	Bromomethane
2139227-11	EPA-8260C	1,2-Dichlorobenzene
2139227-12	EPA-8260C	Bromomethane
2139227-12	EPA-8260C	1,2-Dichlorobenzene
2139227-13	EPA-8260C	Bromomethane
2139227-13	EPA-8260C	1,2-Dichlorobenzene

Holding Times

All holding time requirements were met.

Method Blanks

There were no detections in the Method Blank(s).
The surrogate recovery for this compound was not within the control limits.

Lab Number	Method	Analyte
2125965-CCB2	EPA-8260C	4-Bromofluorobenzene (Surrogate)

Calibration

The Continuing Calibration Verification (CCV) recovery was not within established control limits.

Lab Number	Method	Analyte
2125965-CCV1	EPA-8260C	Bromomethane
2125965-CCV1	EPA-8260C	1,2-Dichlorobenzene

Matrix Spikes

Source Samples Used For QC

Batch	Method	Source Lab Number	Client Sample Name
B128095	EPA-8260C	2138401-07	<Not Client Sample>

Case Narrative

Matrix Spikes

Matrix spike precision is not within the control limits.

Lab Number	Method	Analyte
B128095-MSD1	EPA-8260C	Chloroethane
B128095-MSD1	EPA-8260C	1,1-Dichloroethene
B128095-MSD1	EPA-8260C	Trichlorofluoromethane
B128095-MSD1	EPA-8260C	1,1,2-Trichloro-1,2,2-trifluoroethane
B128095-MSD1	EPA-8260C	Acetone

The surrogate recovery for this compound was not within the control limits.

Lab Number	Method	Analyte
B128095-MS1	EPA-8260C	Toluene-d8 (Surrogate)

LCS / LCSD

The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.

Lab Number	Method	Analyte
B128095-BSD1	EPA-8260C	1,2-Dichlorobenzene

The relative percent difference between the Laboratory Control Sample Water (LCSW) and the LCSW Duplicate exceeds the control limit.

Lab Number	Method	Analyte
B128095-BSD1	EPA-8260C	1,2-Dichlorobenzene

The surrogate recovery for this compound was not within the control limits.

Lab Number	Method	Analyte
B128095-BSD1	EPA-8260C	Toluene-d8 (Surrogate)

Ahtna
2255 Contra Costa Blvd, Suite 312
Pleasant Hill, CA 94523
(925) 222-6578

CHAIN OF CUSTODY

WATER / SOIL Chain of Custody #: 1 of 1

Project Information:

Project Location: Lompoc, CA Sampler/s: J.Feduck and S.Korbay
Project Name: Former USDB Lompoc Report To: Sommer Carter (925-357-0750), Jessica Feduck (925-330-5479)
Project Number: 21044.006.01.000 E-Mail: scarter@ahtna.net; jfeduck@ahtna.net; lab@ahtna.net
Sampling Event: 2021 Second Semiannual Event Laboratory: BC Labs/PACE Analytical
21-39227

Lab Sample Receipt: Laboratory Sample Delivery Group #: Custody Seal: Temp (°C):

Lab Number	Sample Number/Description	Sample Collection: Date	Time	Matrix: Water	Soil	Other	Total # of Bottles	Number of Preserved Bottles: HCl	HNO_3	H_2SO_4	NaOH	MeOH	$NaHSO_4$	None	Other	Analysis Requested: 8260C - VOCs	Notes
	~~WRMW01-121621-N~~	~~12/16/21~~		X				~~X~~								~~X~~	~~MS/MSD 12/16/21~~
	WRMW01B1-121621-N -1	12/16/21	10:50	X			3	X								X	
	WRMW01B2-121621-N -2	12/16/21	10:52	X			3	X								X	
	WRMW01B3-121621-N -3	12/16/21	10:58	X			3	X								X	
	~~WRMW02-121621-N~~	~~12/16/21~~		X				~~X~~								~~X~~	
	~~WRMW02-121621-D~~	~~12/16/21~~		~~X~~				~~X~~								~~X~~	
	WRMW04A-121621-N -4	12/16/21	0814	X			3	X								X	
	WRMW05A-121621-N -5	12/16/21	0945	X			3	X								X	
	WRMW08A-121621-N -6	12/16/21	1020	X			3	X								X	
	WRMW09A-121621-N -7	12/16/21	1115	X			3	X								X	
	WRMW10A-121621-N -8	12/16/21	0855	X			3	X								X	
	WRMW11A-121621-N -9	12/16/21	0915	X			3	X								X	
	WRMW12A-121621-N -10	12/16/21	0930	X			3	X								X	
	FB-121621 -11	12/16/21	1010	X			3	X									
	TB-121621 -12	12/16/21	1230	X			2	X									
	WRMW08A-121621-D -13	12/16/21	10:25	X			2	X									

CHK BY DISTRIBUTION SUB-OUT

Turnaround Time: X : Standard ____ : 3-5 Day Rush ____ : 48 Hour Rush ____ : 24 Hour Rush Shipment Method: FedEX Tracking ID:

Comments:

Chain of Custody Tracking:

Relinquished By Sampler	Date/Time:	Received By:	Date/Time:
	12/16/21 @ 1430		12/17/21 1130
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By Laboratory:	Date/Time:

Chain of Custody and Cooler Receipt Form for 2139227 Page 2 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 21-39227

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☑ UPS ☐ GSO / GLS ☐ Hand Delivery ☐	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☑
BC Lab Field Service ☐ Other ☐ (Specify)_____	Other ☐ (Specify)_____	W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☑ Intact? Yes ☑ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: temp glass Thermometer ID: 274

Temperature: (A) 2.7 °C / (C) 2.6 °C

Date/Time 12/13/21 1130

Analyst Init SA

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr^{+6}										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:

Sample Numbering Completed By: _____ Date/Time: 12/13/21 1130

A = Actual / C = Corrected

Rev 22 04/13/21

[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 22]

Chain of Custody and Cooler Receipt Form for 2139227 Page 3 of 3

BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 21-392279

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Fed Ex ☑ UPS ☐ GSO / GLS ☐ Hand Delivery ☐ BC Lab Field Service ☐ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☑ W / S

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☐ Comments:

All samples received? Yes ☑ No ☐ All samples containers intact? Yes ☑ No ☐ Description(s) match COC? Yes ☑ No ☐

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: hemp plastic Thermometer ID: 274

Temperature: (A) 2.7 °C / (C) 2.6 °C

Date/Time 12/17/21 1130

Analyst Init SA

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	11	12	13	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr+6										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK		A-B								
40ml VOA VIAL	A-C		A-B							
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments:_____

Sample Numbering Completed By: FE Date/Time: 12/17/21 1130

A = Actual / C = Corrected

Rev 22 04/13/21

[S:\WPDocs\WordPerfect\LAB_DOCS\FORMS\SAMREC rev 22]

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308
Phone: 661-327-4911

SDG: **2139227**
Class: **VOA**
Method: **EPA-8260C**

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ANALYSES DATA PACKAGE COVER PAGE

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
SDG: 2139227
Project: Lompoc PDB Groundwater

Client Sample Id:	Lab Sample Id:
WRMW01B1-121621-N	2139227-01
WRMW01B2-121621-N	2139227-02
WRMW01B3-121621-N	2139227-03
WRMW04A-121621-N	2139227-04
WRMW05A-121621-N	2139227-05
WRMW08A-121621-N	2139227-06
WRMW09A-121621-N	2139227-07
WRMW10A-121621-N	2139227-08
WRMW11A-121621-N	2139227-09
WRMW12A-121621-N	2139227-10
FB-121621	2139227-11
TB-121621	2139227-12
WRMW08A-121621-D	2139227-13

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hardcopy data package and in computer-readable data submitted on diskette has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures.

Signature: Sara Guron
Name: Sara Guron

Date: 01-07-2022
Title: QA/QC Manager

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

METHOD DETECTION AND REPORTING LIMITS

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
Benzene	0.063	0.16	0.50	ug/L
Bromobenzene	0.050	0.30	0.50	ug/L
Bromodichloromethane	0.064	0.30	0.50	ug/L
Bromoform	0.15	0.30	0.60	ug/L
Bromomethane	0.32	0.40	0.60	ug/L
Carbon tetrachloride	0.050	0.20	0.50	ug/L
Chlorobenzene	0.050	0.16	0.50	ug/L
Chloroethane	0.093	0.16	0.50	ug/L
Chloroform	0.050	0.16	0.50	ug/L
Chloromethane	0.075	0.16	0.50	ug/L
Dibromochloromethane	0.083	0.16	0.50	ug/L
Dibromomethane	0.14	0.40	1.0	ug/L
1,2-Dichlorobenzene	0.083	0.16	0.50	ug/L
1,3-Dichlorobenzene	0.057	0.16	0.50	ug/L
1,4-Dichlorobenzene	0.073	0.16	0.50	ug/L
Dichlorodifluoromethane	0.059	0.16	0.50	ug/L
1,1-Dichloroethane	0.050	0.16	0.50	ug/L
1,2-Dichloroethane	0.083	0.20	0.50	ug/L
1,1-Dichloroethene	0.070	0.20	0.50	ug/L
cis-1,2-Dichloroethene	0.085	0.16	0.50	ug/L
trans-1,2-Dichloroethene	0.050	0.16	0.50	ug/L
1,2-Dichloropropane	0.075	0.30	0.50	ug/L
cis-1,3-Dichloropropene	0.075	0.16	0.50	ug/L
trans-1,3-Dichloropropene	0.082	0.16	0.50	ug/L
Ethylbenzene	0.068	0.16	0.50	ug/L
Methylene chloride	0.12	0.50	1.0	ug/L
1,1,1,2-Tetrachloroethane	0.068	0.20	0.50	ug/L
1,1,2,2-Tetrachloroethane	0.23	0.40	0.50	ug/L
Tetrachloroethene	0.077	0.30	0.50	ug/L
Toluene	0.055	0.16	0.50	ug/L

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

METHOD DETECTION AND REPORTING LIMITS

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Instrument: MS-V5

Analyte	DL	LOD	LOQ	Units
1,1,1-Trichloroethane	0.051	0.16	0.50	ug/L
1,1,2-Trichloroethane	0.13	0.16	0.50	ug/L
Trichloroethene	0.065	0.16	0.50	ug/L
Trichlorofluoromethane	0.064	0.16	0.50	ug/L
1,1,2-Trichloro-1,2,2-trifluoroethane	0.081	0.16	0.50	ug/L
Vinyl chloride	0.097	0.16	0.50	ug/L
Acetone	3.5	8.0	10	ug/L
p- & m-Xylenes	0.13	0.45	0.50	ug/L
o-Xylene	0.065	0.40	0.50	ug/L

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B1-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-01	File ID:	23DEC06.D
Sampled:	12/16/21 10:50	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 06:39
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	J
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B1-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-01	File ID:	23DEC06.D
Sampled:	12/16/21 10:50	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 06:39
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.2900	82.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.980	110	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	8.8200	88.2	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	45691	6.83	52592	6.82	
Chlorobenzene-d5 (IS)	99133	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	70554	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B2-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-02	File ID:	23DEC26.D
Sampled:	12/16/21 10:52	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 14:46
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.13	0.063	0.16	0.50	J
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.17	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B2-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-02	File ID:	23DEC26.D
Sampled:	12/16/21 10:52	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 14:46
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	10.110	101	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.620	106	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.9500	99.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	32686	6.83	52592	6.82	
Chlorobenzene-d5 (IS)	66719	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	49310	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B3-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-03	File ID:	23DEC08.D
Sampled:	12/16/21 10:55	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 07:28
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.27	0.063	0.16	0.50	J
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.20	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW01B3-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-03
File ID: 23DEC08.D
Sampled: 12/16/21 10:55
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 07:28
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.7500	87.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.980	110	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.1400	91.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	44914	6.81	52592	6.82	
Chlorobenzene-d5 (IS)	97057	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	69266	7.57	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW04A-121621-N

Laboratory: BC Laboratories | SDG: 2139227
Client: Ahtna Global, LLC $AHTT | Project: Lompoc PDB Groundwater
Matrix: Water | Laboratory ID: 2139227-04 | File ID: 23DEC09.D
Sampled: 12/16/21 08:14 | Prepared: 12/23/21 05:00 | Analyzed: 12/23/21 07:52
Solids: | Preparation: EPA 5030 Water MS | Initial/Final: 25 ml / 25 ml
Batch: B128095 | Sequence: 2125965 | Calibration: 2112015 | Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.83	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	2.1	0.077	0.30	0.50	
108-88-3	Toluene	1	0.10	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW04A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-04
File ID: 23DEC09.D
Sampled: 12/16/21 08:14
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 07:52
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.98	0.065	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.6900	86.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.830	108	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.1300	91.3	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	44675	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	96249	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	70111	7.58	80932	7.57	

* Values outside of QC limits

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW05A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-05
File ID: 23DEC29.D
Sampled: 12/16/21 09:45
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 15:59
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	12	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.11	0.050	0.16	0.50	J
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW05A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-05
File ID: 23DEC29.D
Sampled: 12/16/21 09:45
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 15:59
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.58	0.097	0.16	0.50	
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.5500	85.5	81 - 118	
Toluene-d8 (Surrogate)	10.000	11.200	112	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3100	93.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	46259	6.83	52592	6.82	
Chlorobenzene-d5 (IS)	98048	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	68376	7.57	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW08A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-06
File ID: 23DEC10.D
Sampled: 12/16/21 10:20
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 08:16
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.14	0.077	0.30	0.50	J
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW08A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-06
File ID: 23DEC10.D
Sampled: 12/16/21 10:20
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 08:16
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.1200	91.2	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.810	108	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	8.9500	89.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	43526	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	98875	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	70827	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW09A-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-07	File ID:	23DEC11.D
Sampled:	12/16/21 11:15	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 08:40
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	4.1	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.12	0.077	0.30	0.50	J
108-88-3	Toluene	1	0.080	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW09A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-07
File ID: 23DEC11.D
Sampled: 12/16/21 11:15
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 08:40
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.17	0.065	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.8000	88.0	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.640	106	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.0500	90.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	45139	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	98105	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	71424	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW10A-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-08	File ID:	23DEC16.D
Sampled:	12/16/21 08:55	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 10:42
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.080	0.063	0.16	0.50	J
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	3.4	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	1.6	0.077	0.30	0.50	
108-88-3	Toluene	1	0.13	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW10A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-08
File ID: 23DEC16.D
Sampled: 12/16/21 08:55
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 10:42
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.96	0.065	0.16	0.50	
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.8700	88.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.990	110	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.1100	91.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	44679	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	97917	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	69011	7.57	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW11A-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-09	File ID:	23DEC12.D
Sampled:	12/16/21 09:15	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 09:05
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	2.4	0.077	0.30	0.50	
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW11A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-09
File ID: 23DEC12.D
Sampled: 12/16/21 09:15
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 09:05
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.10	0.065	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.8000	88.0	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.840	108	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.0400	90.4	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	44521	6.81	52592	6.82	
Chlorobenzene-d5 (IS)	97736	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	70308	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW12A-121621-N

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-10	File ID:	23DEC27.D
Sampled:	12/16/21 09:30	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 15:10
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	7.0	0.085	0.16	0.50	
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.34	0.077	0.30	0.50	J
108-88-3	Toluene	1	0.14	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW12A-121621-N

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-10
File ID: 23DEC27.D
Sampled: 12/16/21 09:30
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 15:10
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.42	0.065	0.16	0.50	J
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.8300	88.3	81 - 118	
Toluene-d8 (Surrogate)	10.000	11.200	112	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3100	93.1	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	45405	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	97906	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	68968	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

FB-121621

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-11	File ID:	23DEC17.D
Sampled:	12/16/21 10:10	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 11:07
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.10	0.055	0.16	0.50	J
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

FB-121621

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-11	File ID:	23DEC17.D
Sampled:	12/16/21 10:10	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 11:07
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.9000	89.0	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.990	110	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.0500	90.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	44000	6.83	52592	6.82	
Chlorobenzene-d5 (IS)	96759	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	67575	7.57	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

TB-121621

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-12
File ID: 23DEC18.D
Sampled: 12/16/21 12:30
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 11:31
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

TB-121621

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Laboratory ID: 2139227-12
File ID: 23DEC18.D
Sampled: 12/16/21 12:30
Prepared: 12/23/21 05:00
Analyzed: 12/23/21 11:31
Solids:
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Batch: B128095
Sequence: 2125965
Calibration: 2112015
Instrument: MS-V5

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	9.0700	90.7	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.920	109	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.2500	92.5	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	43210	6.83	52592	6.82	
Chlorobenzene-d5 (IS)	93227	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	67540	7.58	80932	7.57	

* Values outside of QC limits

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW08A-121621-D

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-13	File ID:	23DEC28.D
Sampled:	12/16/21 10:25	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 15:34
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	1	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	1	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	1	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	1	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	1	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	1	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	1	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	1	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	1	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	1	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	1	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	1	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	1	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	1	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	1	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	1	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	1	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	1	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	1	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	1	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	1	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	1	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	1	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	1	0.16	0.082	0.16	0.50	U
100-41-4	Ethylbenzene	1	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	1	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	1	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	1	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	1	0.12	0.077	0.30	0.50	J
108-88-3	Toluene	1	0.16	0.055	0.16	0.50	U
71-55-6	1,1,1-Trichloroethane	1	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	1	0.16	0.13	0.16	0.50	U

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ORGANIC ANALYSIS DATA SHEET
EPA-8260C

WRMW08A-121621-D

Laboratory:	BC Laboratories			SDG:	2139227
Client:	Ahtna Global, LLC $AHTT			Project:	Lompoc PDB Groundwater
Matrix:	Water	Laboratory ID:	2139227-13	File ID:	23DEC28.D
Sampled:	12/16/21 10:25	Prepared:	12/23/21 05:00	Analyzed:	12/23/21 15:34
Solids:		Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Batch:	B128095	Sequence:	2125965	Calibration:	2112015
Instrument:	MS-V5				

CAS NO.	COMPOUND	DILUTION	CONC. (ug/L)	DL	LOD	LOQ	Q
79-01-6	Trichloroethene	1	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	1	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	1	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	1	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	1	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	1	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	1	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.8900	88.9	81 - 118	
Toluene-d8 (Surrogate)	10.000	11.080	111	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.2000	92.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	45227	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	99152	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	69381	7.57	80932	7.57	

* Values outside of QC limits

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

PREPARATION BATCH SUMMARY

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Batch: B128095 Batch Matrix: Water
Preparation: EPA 5030 Water MS

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
WRMW01B1-121621-N	2139227-01	23DEC06.D	12/23/21 05:00	Lompoc-CLP IV
WRMW01B2-121621-N	2139227-02	23DEC26.D	12/23/21 05:00	Lompoc-CLP IV
WRMW01B3-121621-N	2139227-03	23DEC08.D	12/23/21 05:00	Lompoc-CLP IV
WRMW04A-121621-N	2139227-04	23DEC09.D	12/23/21 05:00	Lompoc-CLP IV
WRMW05A-121621-N	2139227-05	23DEC29.D	12/23/21 05:00	Lompoc-CLP IV
WRMW08A-121621-N	2139227-06	23DEC10.D	12/23/21 05:00	Lompoc-CLP IV
WRMW09A-121621-N	2139227-07	23DEC11.D	12/23/21 05:00	Lompoc-CLP IV
WRMW10A-121621-N	2139227-08	23DEC16.D	12/23/21 05:00	Lompoc-CLP IV
WRMW11A-121621-N	2139227-09	23DEC12.D	12/23/21 05:00	Lompoc-CLP IV
WRMW12A-121621-N	2139227-10	23DEC27.D	12/23/21 05:00	Lompoc-CLP IV
FB-121621	2139227-11	23DEC17.D	12/23/21 05:00	Lompoc-CLP IV
TB-121621	2139227-12	23DEC18.D	12/23/21 05:00	Lompoc-CLP IV
WRMW08A-121621-D	2139227-13	23DEC28.D	12/23/21 05:00	Lompoc-CLP IV
Blank	B128095-BLK1	23DEC05.D	12/23/21 05:00	
LCS	B128095-BS1	23DEC19.D	12/23/21 05:00	
LCS Dup	B128095-BSD1	23DEC21.D	12/23/21 05:00	
Matrix Spike	B128095-MS1	23DEC22.D	12/23/21 05:00	
Matrix Spike Dup	B128095-MSD1	23DEC23.D	12/23/21 05:00	

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Project Manager: Jessica Feduck

METHOD BLANK DATA SHEET
EPA-8260C

Laboratory:	BC Laboratories		SDG:	2139227	
Client:	Ahtna Global, LLC $AHTT		Project:	Lompoc PDB Groundwater	
Matrix:	Water	Laboratory ID:	B128095-BLK1	File ID:	23DEC05.D
Prepared:	12/23/21 05:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	12/23/21 06:14	Instrument:	MS-V5		
Batch:	B128095	Sequence:	2125965	Calibration:	2112015

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
71-43-2	Benzene	0.16	0.063	0.16	0.50	U
108-86-1	Bromobenzene	0.30	0.050	0.30	0.50	U
75-27-4	Bromodichloromethane	0.30	0.064	0.30	0.50	U
75-25-2	Bromoform	0.30	0.15	0.30	0.60	U
74-83-9	Bromomethane	0.40	0.32	0.40	0.60	U
56-23-5	Carbon tetrachloride	0.20	0.050	0.20	0.50	U
108-90-7	Chlorobenzene	0.16	0.050	0.16	0.50	U
75-00-3	Chloroethane	0.16	0.093	0.16	0.50	U
67-66-3	Chloroform	0.16	0.050	0.16	0.50	U
74-87-3	Chloromethane	0.16	0.075	0.16	0.50	U
124-48-1	Dibromochloromethane	0.16	0.083	0.16	0.50	U
74-95-3	Dibromomethane	0.40	0.14	0.40	1.0	U
95-50-1	1,2-Dichlorobenzene	0.16	0.083	0.16	0.50	U
541-73-1	1,3-Dichlorobenzene	0.16	0.057	0.16	0.50	U
106-46-7	1,4-Dichlorobenzene	0.16	0.073	0.16	0.50	U
75-71-8	Dichlorodifluoromethane	0.16	0.059	0.16	0.50	U
75-34-3	1,1-Dichloroethane	0.16	0.050	0.16	0.50	U
107-06-2	1,2-Dichloroethane	0.20	0.083	0.20	0.50	U
75-35-4	1,1-Dichloroethene	0.20	0.070	0.20	0.50	U
156-59-2	cis-1,2-Dichloroethene	0.16	0.085	0.16	0.50	U
156-60-5	trans-1,2-Dichloroethene	0.16	0.050	0.16	0.50	U
78-87-5	1,2-Dichloropropane	0.30	0.075	0.30	0.50	U
10061-01-5	cis-1,3-Dichloropropene	0.16	0.075	0.16	0.50	U
10061-02-6	trans-1,3-Dichloropropene	0.16	0.082	0.16	0.50	U

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

METHOD BLANK DATA SHEET
EPA-8260C

Laboratory:	BC Laboratories		SDG:	2139227	
Client:	Ahtna Global, LLC $AHTT		Project:	Lompoc PDB Groundwater	
Matrix:	Water	Laboratory ID:	B128095-BLK1	File ID:	23DEC05.D
Prepared:	12/23/21 05:00	Preparation:	EPA 5030 Water MS	Initial/Final:	25 ml / 25 ml
Analyzed:	12/23/21 06:14	Instrument:	MS-V5		
Batch:	B128095	Sequence:	2125965	Calibration:	2112015

CAS NO.	COMPOUND	CONC. (ug/L)	DL	LOD	LOQ	Q
100-41-4	Ethylbenzene	0.16	0.068	0.16	0.50	U
75-09-2	Methylene chloride	0.50	0.12	0.50	1.0	U
630-20-6	1,1,1,2-Tetrachloroethane	0.20	0.068	0.20	0.50	U
79-34-5	1,1,2,2-Tetrachloroethane	0.40	0.23	0.40	0.50	U
127-18-4	Tetrachloroethene	0.30	0.077	0.30	0.50	U
108-88-3	Toluene	0.16	0.055	0.16	0.50	U
71-55-6	1,1,1-Trichloroethane	0.16	0.051	0.16	0.50	U
79-00-5	1,1,2-Trichloroethane	0.16	0.13	0.16	0.50	U
79-01-6	Trichloroethene	0.16	0.065	0.16	0.50	U
75-69-4	Trichlorofluoromethane	0.16	0.064	0.16	0.50	U
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	0.16	0.081	0.16	0.50	U
75-01-4	Vinyl chloride	0.16	0.097	0.16	0.50	U
67-64-1	Acetone	8.0	3.5	8.0	10	U
179601-23-1	p- & m-Xylenes	0.45	0.13	0.45	0.50	U
95-47-6	o-Xylene	0.40	0.065	0.40	0.50	U

SYSTEM MONITORING COMPOUND	ADDED (ug/L)	CONC (ug/L)	% REC	QC LIMITS	Q
1,2-Dichloroethane-d4 (Surrogate)	10.000	8.3600	83.6	81 - 118	
Toluene-d8 (Surrogate)	10.000	10.660	107	89 - 112	
4-Bromofluorobenzene (Surrogate)	10.000	9.3000	93.0	85 - 114	

INTERNAL STANDARD	AREA	RT	REF AREA	REF RT	Q
Pentafluorobenzene (IS)	46439	6.82	52592	6.82	
Chlorobenzene-d5 (IS)	96495	9.77	103823	9.77	
1,4-Difluorobenzene (IS)	72232	7.57	80932	7.57	

Ahtna Global, LLC
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Anchorage, ALASKA 99503

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260C

Matrix Spike

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Matrix: Water
Batch: B128095
Preparation: EPA 5030 Water MS
Source Sample Number: 2138401-07

SDG: 2139227
Project: Lompoc PDB Groundwater
Laboratory ID: B128095-MS1
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Benzene	25.000	ND	26.440	106	79 - 120
Bromobenzene	25.000	ND	23.640	94.6	80 - 120
Bromodichloromethane	25.000	ND	26.090	104	79 - 125
Bromoform	25.000	ND	23.900	95.6	66 - 130
Bromomethane	25.000	ND	16.910	67.6	53 - 141
Carbon tetrachloride	25.000	ND	24.820	99.3	72 - 136
Chlorobenzene	25.000	ND	23.780	95.1	82 - 118
Chloroethane	25.000	ND	16.970	67.9	60 - 138
Chloroform	25.000	ND	23.510	94.0	79 - 124
Chloromethane	25.000	ND	25.360	101	50 - 139
Dibromochloromethane	25.000	ND	26.060	104	74 - 126
Dibromomethane	25.000	ND	26.830	107	79 - 123
1,2-Dichlorobenzene	25.000	ND	24.160	96.6	80 - 119
1,3-Dichlorobenzene	25.000	ND	22.910	91.6	80 - 119
1,4-Dichlorobenzene	25.000	ND	24.200	96.8	79 - 118
Dichlorodifluoromethane	25.000	ND	22.110	88.4	32 - 152
1,1-Dichloroethane	25.000	ND	25.180	101	77 - 125
1,2-Dichloroethane	25.000	ND	21.990	88.0	73 - 128
1,1-Dichloroethene	25.000	ND	19.200	76.8	71 - 131
cis-1,2-Dichloroethene	25.000	ND	27.510	110	78 - 123
trans-1,2-Dichloroethene	25.000	ND	26.240	105	75 - 124
1,2-Dichloropropane	25.000	ND	29.640	119	78 - 122
cis-1,3-Dichloropropene	25.000	ND	29.870	119	75 - 124
trans-1,3-Dichloropropene	25.000	ND	28.950	116	73 - 127
Ethylbenzene	25.000	ND	24.260	97.0	79 - 121

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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260C

Matrix Spike

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Matrix: Water
Batch: B128095
Preparation: EPA 5030 Water MS
Source Sample Number: 2138401-07

SDG: 2139227
Project: Lompoc PDB Groundwater
Laboratory ID: B128095-MS1
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC. #	QC LIMITS REC.
Methylene chloride	25.000	ND	28.280	113	74 - 124
1,1,1,2-Tetrachloroethane	25.000	ND	24.200	96.8	78 - 124
1,1,2,2-Tetrachloroethane	25.000	ND	27.030	108	71 - 121
Tetrachloroethene	25.000	ND	28.740	115	74 - 129
Toluene	25.000	ND	27.230	109	80 - 121
1,1,1-Trichloroethane	25.000	ND	22.190	88.8	74 - 131
1,1,2-Trichloroethane	25.000	ND	28.060	112	80 - 119
Trichloroethene	25.000	ND	25.770	103	79 - 123
Trichlorofluoromethane	25.000	ND	16.980	67.9	65 - 141
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	ND	18.320	73.3	70 - 136
Vinyl chloride	25.000	ND	24.880	99.5	58 - 137
Acetone	320.00	ND	252.42	78.9	39 - 160
p- & m-Xylenes	50.000	ND	48.960	97.9	80 - 121
o-Xylene	25.000	ND	25.250	101	78 - 122

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	26.440	106	0.00	20	79 - 120
Bromobenzene	25.000	23.200	92.8	1.88	20	80 - 120
Bromodichloromethane	25.000	25.570	102	2.01	20	79 - 125
Bromoform	25.000	23.110	92.4	3.36	20	66 - 130
Bromomethane	25.000	18.790	75.2	10.5	20	53 - 141
Carbon tetrachloride	25.000	25.570	102	2.98	20	72 - 136
Chlorobenzene	25.000	23.560	94.2	0.929	20	82 - 118
Chloroethane	25.000	22.470	89.9	27.9 *	20	60 - 138

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Project Manager: Jessica Feduck

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260C

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 2138401-07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chloroform	25.000	23.390	93.6	0.512	20	79 - 124
Chloromethane	25.000	25.980	104	2.42	20	50 - 139
Dibromochloromethane	25.000	24.780	99.1	5.04	20	74 - 126
Dibromomethane	25.000	24.650	98.6	8.47	20	79 - 123
1,2-Dichlorobenzene	25.000	23.830	95.3	1.38	20	80 - 119
1,3-Dichlorobenzene	25.000	22.890	91.6	0.0873	20	80 - 119
1,4-Dichlorobenzene	25.000	23.850	95.4	1.46	20	79 - 118
Dichlorodifluoromethane	25.000	22.600	90.4	2.19	20	32 - 152
1,1-Dichloroethane	25.000	25.600	102	1.65	20	77 - 125
1,2-Dichloroethane	25.000	22.080	88.3	0.408	20	73 - 128
1,1-Dichloroethene	25.000	25.850	103	29.5 *	20	71 - 131
cis-1,2-Dichloroethene	25.000	27.480	110	0.109	20	78 - 123
trans-1,2-Dichloroethene	25.000	26.990	108	2.82	20	75 - 124
1,2-Dichloropropane	25.000	27.610	110	7.09	20	78 - 122
cis-1,3-Dichloropropene	25.000	28.380	114	5.12	20	75 - 124
trans-1,3-Dichloropropene	25.000	26.730	107	7.97	20	73 - 127
Ethylbenzene	25.000	24.590	98.4	1.35	20	79 - 121
Methylene chloride	25.000	28.120	112	0.567	20	74 - 124
1,1,1,2-Tetrachloroethane	25.000	23.380	93.5	3.45	20	78 - 124
1,1,2,2-Tetrachloroethane	25.000	24.970	99.9	7.92	20	71 - 121
Tetrachloroethene	25.000	27.660	111	3.83	20	74 - 129
Toluene	25.000	26.180	105	3.93	20	80 - 121
1,1,1-Trichloroethane	25.000	22.670	90.7	2.14	20	74 - 131
1,1,2-Trichloroethane	25.000	26.060	104	7.39	20	80 - 119
Trichloroethene	25.000	24.970	99.9	3.15	20	79 - 123
Trichlorofluoromethane	25.000	21.870	87.5	25.2 *	20	65 - 141

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Project Manager: Jessica Feduck

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY

EPA-8260C

Matrix Spike Dup

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-MSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml
Source Sample Number: 2138401-07

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	25.570	102	33.0 *	20	70 - 136
Vinyl chloride	25.000	25.350	101	1.87	20	58 - 137
Acetone	320.00	336.25	105	28.5 *	20	39 - 160
p- & m-Xylenes	50.000	49.340	98.7	0.773	20	80 - 121
o-Xylene	25.000	25.340	101	0.356	20	78 - 122

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

LCS RECOVERY
EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Benzene	25.000	28.010	112	79 - 120
Bromobenzene	25.000	24.600	98.4	80 - 120
Bromodichloromethane	25.000	27.130	109	79 - 125
Bromoform	25.000	22.350	89.4	66 - 130
Bromomethane	25.000	21.440	85.8	53 - 141
Carbon tetrachloride	25.000	23.980	95.9	72 - 136
Chlorobenzene	25.000	24.670	98.7	82 - 118
Chloroethane	25.000	29.530	118	60 - 138
Chloroform	25.000	24.960	99.8	79 - 124
Chloromethane	25.000	26.140	105	50 - 139
Dibromochloromethane	25.000	25.240	101	74 - 126
Dibromomethane	25.000	27.660	111	79 - 123
1,2-Dichlorobenzene	25.000	25.100	100	80 - 119
1,3-Dichlorobenzene	25.000	24.180	96.7	80 - 119
1,4-Dichlorobenzene	25.000	25.050	100	79 - 118
Dichlorodifluoromethane	25.000	24.540	98.2	32 - 152
1,1-Dichloroethane	25.000	26.540	106	77 - 125
1,2-Dichloroethane	25.000	24.660	98.6	73 - 128
1,1-Dichloroethene	25.000	26.970	108	71 - 131
cis-1,2-Dichloroethene	25.000	29.180	117	78 - 123
trans-1,2-Dichloroethene	25.000	28.070	112	75 - 124
1,2-Dichloropropane	25.000	29.710	119	78 - 122
cis-1,3-Dichloropropene	25.000	29.750	119	75 - 124
trans-1,3-Dichloropropene	25.000	28.740	115	73 - 127

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

LCS RECOVERY
EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-BS1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC. #	QC LIMITS REC.
Ethylbenzene	25.000	25.140	101	79 - 121
Methylene chloride	25.000	29.170	117	74 - 124
1,1,1,2-Tetrachloroethane	25.000	23.810	95.2	78 - 124
1,1,2,2-Tetrachloroethane	25.000	27.510	110	71 - 121
Tetrachloroethene	25.000	27.170	109	74 - 129
Toluene	25.000	27.920	112	80 - 121
1,1,1-Trichloroethane	25.000	23.080	92.3	74 - 131
1,1,2-Trichloroethane	25.000	28.790	115	80 - 119
Trichloroethene	25.000	26.450	106	79 - 123
Trichlorofluoromethane	25.000	23.010	92.0	65 - 141
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	26.720	107	70 - 136
Vinyl chloride	25.000	25.640	103	58 - 137
Acetone	320.00	324.64	101	39 - 160
p- & m-Xylenes	50.000	50.720	101	80 - 121
o-Xylene	25.000	26.010	104	78 - 122

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Benzene	25.000	26.840	107	4.27	20	79 - 120
Bromobenzene	25.000	24.560	98.2	0.163	20	80 - 120
Bromodichloromethane	25.000	26.960	108	0.629	20	79 - 125
Bromoform	25.000	23.900	95.6	6.70	20	66 - 130
Bromomethane	25.000	25.140	101	15.9	20	53 - 141
Carbon tetrachloride	25.000	24.970	99.9	4.04	20	72 - 136

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

LCS RECOVERY
EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-BSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Chlorobenzene	25.000	24.530	98.1	0.569	20	82 - 118
Chloroethane	25.000	28.950	116	1.98	20	60 - 138
Chloroform	25.000	23.510	94.0	5.98	20	79 - 124
Chloromethane	25.000	26.580	106	1.67	20	50 - 139
Dibromochloromethane	25.000	27.290	109	7.81	20	74 - 126
Dibromomethane	25.000	26.640	107	3.76	20	79 - 123
1,2-Dichlorobenzene	25.000	19.110	76.4 *	27.1 *	20	80 - 119
1,3-Dichlorobenzene	25.000	22.280	89.1	8.18	20	80 - 119
1,4-Dichlorobenzene	25.000	23.320	93.3	7.15	20	79 - 118
Dichlorodifluoromethane	25.000	23.300	93.2	5.18	20	32 - 152
1,1-Dichloroethane	25.000	25.450	102	4.19	20	77 - 125
1,2-Dichloroethane	25.000	22.850	91.4	7.62	20	73 - 128
1,1-Dichloroethene	25.000	25.300	101	6.39	20	71 - 131
cis-1,2-Dichloroethene	25.000	27.430	110	6.18	20	78 - 123
trans-1,2-Dichloroethene	25.000	26.930	108	4.15	20	75 - 124
1,2-Dichloropropane	25.000	29.990	120	0.938	20	78 - 122
cis-1,3-Dichloropropene	25.000	30.690	123	3.11	20	75 - 124
trans-1,3-Dichloropropene	25.000	29.360	117	2.13	20	73 - 127
Ethylbenzene	25.000	25.110	100	0.119	20	79 - 121
Methylene chloride	25.000	28.190	113	3.42	20	74 - 124
1,1,1,2-Tetrachloroethane	25.000	24.330	97.3	2.16	20	78 - 124
1,1,2,2-Tetrachloroethane	25.000	26.900	108	2.24	20	71 - 121
Tetrachloroethene	25.000	27.900	112	2.65	20	74 - 129
Toluene	25.000	28.020	112	0.358	20	80 - 121

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Anchorage, ALASKA 99503

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

LCS RECOVERY

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Matrix: Water
Batch: B128095
Laboratory ID: B128095-BSD1
Preparation: EPA 5030 Water MS
Initial/Final: 25 ml / 25 ml

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
1,1,1-Trichloroethane	25.000	22.630	90.5	1.97	20	74 - 131
1,1,2-Trichloroethane	25.000	28.230	113	1.96	20	80 - 119
Trichloroethene	25.000	26.600	106	0.566	20	79 - 123
Trichlorofluoromethane	25.000	21.370	85.5	7.39	20	65 - 141
1,1,2-Trichloro-1,2,2-trifluoroethane	25.000	24.620	98.5	8.18	20	70 - 136
Vinyl chloride	25.000	26.280	105	2.47	20	58 - 137
Acetone	320.00	328.09	103	1.06	20	39 - 160
p- & m-Xylenes	50.000	51.140	102	0.825	20	80 - 121
o-Xylene	25.000	26.140	105	0.499	20	78 - 122

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

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Anchorage, ALASKA 99503

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Sequence:	2125965	Instrument:	MS-V5
Matrix:	Water	Calibration:	2112015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
Initial Cal Check	2125965-ICV1	12DEC12.D	12/12/21 11:13
Initial Cal Blank	2125965-ICB1	12DEC14.D	12/12/21 12:01
Initial Cal Check	2125965-ICV2	12DEC24.D	12/12/21 16:04
Initial Cal Blank	2125965-ICB2	12DEC26.D	12/12/21 16:52
MS Tune	2125965-TUN1	23DEC01.D	12/23/21 04:36
Calibration Check	2125965-CCV1	23DEC02.D	12/23/21 05:01
Calibration Check	2125965-CCV2	23DEC03.D	12/23/21 05:26
Calibration Blank	2125965-CCB1	23DEC04.D	12/23/21 05:50
Blank	B128095-BLK1	23DEC05.D	12/23/21 06:14
WRMW01B1-121621-N	2139227-01	23DEC06.D	12/23/21 06:39
WRMW01B3-121621-N	2139227-03	23DEC08.D	12/23/21 07:28
WRMW04A-121621-N	2139227-04	23DEC09.D	12/23/21 07:52
WRMW08A-121621-N	2139227-06	23DEC10.D	12/23/21 08:16
WRMW09A-121621-N	2139227-07	23DEC11.D	12/23/21 08:40
WRMW11A-121621-N	2139227-09	23DEC12.D	12/23/21 09:05
WRMW10A-121621-N	2139227-08	23DEC16.D	12/23/21 10:42
FB-121621	2139227-11	23DEC17.D	12/23/21 11:07
TB-121621	2139227-12	23DEC18.D	12/23/21 11:31
LCS	B128095-BS1	23DEC19.D	12/23/21 11:55
LCS Dup	B128095-BSD1	23DEC21.D	12/23/21 12:44
Matrix Spike	B128095-MS1	23DEC22.D	12/23/21 13:08
Matrix Spike Dup	B128095-MSD1	23DEC23.D	12/23/21 13:33
WRMW01B2-121621-N	2139227-02	23DEC26.D	12/23/21 14:46
WRMW12A-121621-N	2139227-10	23DEC27.D	12/23/21 15:10
WRMW08A-121621-D	2139227-13	23DEC28.D	12/23/21 15:34
WRMW05A-121621-N	2139227-05	23DEC29.D	12/23/21 15:59

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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Sequence:	2125965	Instrument:	MS-V5
Matrix:	Water	Calibration:	2112015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2125965-TUN2	23DEC30.D	12/23/21 16:23
Calibration Check	2125965-CCV3	23DEC31.D	12/23/21 16:47
Calibration Check	2125965-CCV4	23DEC32.D	12/23/21 17:12
Calibration Blank	2125965-CCB2	23DEC33.D	12/23/21 17:36

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Project Manager: Jessica Feduck

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Sequence:	2125971	Instrument:	MS-V5
Matrix:	Water	Calibration:	2112015

Sample Name	Lab Sample ID	Lab File ID	Analysis Date/Time
MS Tune	2125971-TUN1	12DEC02.D	12/12/21 06:43
Cal Standard	2125971-CAL1	12DEC03.D	12/12/21 07:10
Cal Standard	2125971-CAL2	12DEC05.D	12/12/21 07:59
Cal Standard	2125971-CAL3	12DEC06.D	12/12/21 08:23
Cal Standard	2125971-CAL4	12DEC07.D	12/12/21 08:47
Cal Standard	2125971-CAL5	12DEC08.D	12/12/21 09:11
Cal Standard	2125971-CAL6	12DEC09.D	12/12/21 09:36
Cal Standard	2125971-CAL7	12DEC15.D	12/12/21 12:26
Cal Standard	2125971-CAL8	12DEC17.D	12/12/21 13:14
Cal Standard	2125971-CAL9	12DEC18.D	12/12/21 13:38
Cal Standard	2125971-CALA	12DEC19.D	12/12/21 14:02
Cal Standard	2125971-CALB	12DEC20.D	12/12/21 14:27
Cal Standard	2125971-CALC	12DEC21.D	12/12/21 14:51

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Lab File ID:	23DEC01.D	Injection Date:	12/23/21
Instrument ID:	MS-V5	Injection Time:	04:36
Sequence:	2125965	Lab Sample ID:	2125965-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.2	PASS
Mass 75	30 - 60% of Mass 95	49.2	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	8.38	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	72.5	PASS
Mass 175	5 - 9% of Mass 174	7.94	PASS
Mass 176	95 - 101% of Mass 174	96.6	PASS
Mass 177	5 - 9% of Mass 176	7.68	PASS

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Lab File ID:	23DEC30.D	Injection Date:	12/23/21
Instrument ID:	MS-V5	Injection Time:	16:23
Sequence:	2125965	Lab Sample ID:	2125965-TUN2

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.1	PASS
Mass 75	30 - 60% of Mass 95	48.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	7.16	PASS
Mass 173	Less than 2% of Mass 174	0.673	PASS
Mass 174	50 - 100% of Mass 95	94.2	PASS
Mass 175	5 - 9% of Mass 174	8.19	PASS
Mass 176	95 - 101% of Mass 174	96.1	PASS
Mass 177	5 - 9% of Mass 176	7.06	PASS

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

MASS SPECTROMETER INSTRUMENT PERFORMANCE CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Lab File ID:	12DEC02.D	Injection Date:	12/12/21
Instrument ID:	MS-V5	Injection Time:	06:43
Sequence:	2125971	Lab Sample ID:	2125971-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
Mass 50	15 - 40% of Mass 95	15.9	PASS
Mass 75	30 - 60% of Mass 95	57.1	PASS
Mass 95	Base peak, 100% relative abundance	100	PASS
Mass 96	5 - 9% of Mass 95	6.86	PASS
Mass 173	Less than 2% of Mass 174	0	PASS
Mass 174	50 - 100% of Mass 95	91.7	PASS
Mass 175	5 - 9% of Mass 174	8.21	PASS
Mass 176	95 - 101% of Mass 174	95.7	PASS
Mass 177	5 - 9% of Mass 176	6.04	PASS

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Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	12DEC12.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/12/21
Lab Sample ID:	2125965-ICV1	Injection Time:	11:13

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	24.840	9.607888	9.547444		-0.6	20
Bromobenzene	A	25.000	24.640	1.326353	1.307442		-1.4	20
Bromodichloromethane	A	25.000	27.890	1.575109	1.756975		11.5	20
Bromoform	Q	25.000	25.990	0.2573055	0.3205471		4.0	20
Bromomethane	A	25.000	27.350	2.300908	2.517038		9.4	20
Carbon tetrachloride	A	25.000	28.580	3.319819	3.794823		14.3	20
Chlorobenzene	A	25.000	23.850	3.134177	2.989886		-4.6	20
Chloroethane	A	25.000	25.420	1.809937	1.840645		1.7	20
Chloroform	A	25.000	24.860	4.878337	4.850295		-0.6	20
Chloromethane	A	25.000	24.580	2.034432	2.000467		-1.7	20
Dibromochloromethane	Q	25.000	26.880	0.7313397	0.9113821		7.5	20
Dibromomethane	A	25.000	26.180	0.5502374	0.5762559		4.7	20
1,2-Dichlorobenzene	A	25.000	24.570	2.154084	2.116927		-1.7	20
1,3-Dichlorobenzene	A	25.000	23.970	2.637713	2.529248		-4.1	20
1,4-Dichlorobenzene	A	25.000	24.350	2.475465	2.411237		-2.6	20
Dichlorodifluoromethane	A	25.000	25.280	4.269146	4.316317		1.1	20
1,1-Dichloroethane	A	25.000	24.810	4.415287	4.381103		-0.8	20
1,2-Dichloroethane	A	25.000	24.580	2.271288	2.233486		-1.7	20
1,1-Dichloroethene	A	25.000	24.910	3.781745	3.768521		-0.3	20
cis-1,2-Dichloroethene	A	25.000	25.630	2.739709	2.80906		2.5	20
trans-1,2-Dichloroethene	A	25.000	25.120	2.772549	2.785436		0.5	20
1,2-Dichloropropane	A	25.000	26.510	1.157099	1.22677		6.0	20
cis-1,3-Dichloropropene	A	25.000	28.370	1.650388	1.873133		13.5	20

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	12DEC12.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/12/21
Lab Sample ID:	2125965-ICV1	Injection Time:	11:13

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
trans-1,3-Dichloropropene	A	25.000	29.320	1.206787	1.415307		17.3	20
Ethylbenzene	A	25.000	24.540	1.874882	1.840055		-1.9	20
Methylene chloride	A	25.000	25.610	2.135873	2.188032		2.4	20
1,1,1,2-Tetrachloroethane	A	25.000	26.340	0.9769089	1.029204		5.4	20
1,1,2,2-Tetrachloroethane	A	25.000	26.460	0.4875764	0.5159838		5.8	20
Tetrachloroethene	A	25.000	25.930	2.047917	2.124476		3.7	20
Toluene	A	25.000	25.530	4.108775	4.195289		2.1	20
1,1,1-Trichloroethane	A	25.000	25.640	5.027759	5.15675		2.6	20
1,1,2-Trichloroethane	A	25.000	27.170	0.7299148	0.793399		8.7	20
Trichloroethene	A	25.000	24.930	1.871643	1.866069		-0.3	20
Trichlorofluoromethane	A	25.000	24.450	5.955213	5.82382		-2.2	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	25.310	2.72796	2.761542		1.2	20
Vinyl chloride	A	25.000	24.740	2.657671	2.629636		-1.1	20
p- & m-Xylenes	A	50.000	48.980	2.147465	2.103566		-2.0	20
o-Xylene	A	25.000	25.240	2.024587	2.04418		1.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

Ahtna Global, LLC
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Anchorage, ALASKA 99503

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	12DEC24.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/12/21
Lab Sample ID:	2125965-ICV2	Injection Time:	16:04

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	316.99	0.1409957	0.1396682		-0.9	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC02.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV1	Injection Time:	05:01

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	27.860	9.607888	10.70688		11.4	20
Bromobenzene	A	25.000	22.080	1.326353	1.17143		-11.7	20
Bromodichloromethane	A	25.000	25.280	1.575109	1.592561		1.1	20
Bromoform	Q	25.000	20.090	0.2573055	0.2339346		-19.6	20
Bromomethane	A	25.000	12.660	2.300908	1.165566		-49.3	20 *
Carbon tetrachloride	A	25.000	23.530	3.319819	3.124571		-5.9	20
Chlorobenzene	A	25.000	23.120	3.134177	2.898075		-7.5	20
Chloroethane	A	25.000	28.650	1.809937	2.074499		14.6	20
Chloroform	A	25.000	24.310	4.878337	4.744222		-2.7	20
Chloromethane	A	25.000	23.090	2.034432	1.878724		-7.7	20
Dibromochloromethane	Q	25.000	23.330	0.7313397	0.7709914		-6.7	20
Dibromomethane	A	25.000	25.640	0.5502374	0.5643527		2.6	20
1,2-Dichlorobenzene	A	25.000	17.520	2.154084	1.509375		-29.9	20 *
1,3-Dichlorobenzene	A	25.000	20.650	2.637713	2.179122		-17.4	20
1,4-Dichlorobenzene	A	25.000	20.100	2.475465	1.990621		-19.6	20
Dichlorodifluoromethane	A	25.000	23.370	4.269146	3.991385		-6.5	20
1,1-Dichloroethane	A	25.000	26.940	4.415287	4.75782		7.8	20
1,2-Dichloroethane	A	25.000	21.680	2.271288	1.96947		-13.3	20
1,1-Dichloroethene	A	25.000	26.580	3.781745	4.021151		6.3	20
cis-1,2-Dichloroethene	A	25.000	28.760	2.739709	3.151512		15.0	20
trans-1,2-Dichloroethene	A	25.000	28.330	2.772549	3.141476		13.3	20
1,2-Dichloropropane	A	25.000	29.220	1.157099	1.352333		16.9	20
cis-1,3-Dichloropropene	A	25.000	27.900	1.650388	1.841868		11.6	20

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Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC02.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV1	Injection Time:	05:01

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
trans-1,3-Dichloropropene	A	25.000	26.440	1.206787	1.276407		5.8	20
Ethylbenzene	A	25.000	23.500	1.874882	1.762126		-6.0	20
Methylene chloride	A	25.000	28.430	2.135873	2.429073		13.7	20
1,1,1,2-Tetrachloroethane	A	25.000	22.050	0.9769089	0.8614541		-11.8	20
1,1,2,2-Tetrachloroethane	A	25.000	25.330	0.4875764	0.4939479		1.3	20
Tetrachloroethene	A	25.000	25.570	2.047917	2.094531		2.3	20
Toluene	A	25.000	26.340	4.108775	4.328295		5.3	20
1,1,1-Trichloroethane	A	25.000	22.800	5.027759	4.585538		-8.8	20
1,1,2-Trichloroethane	A	25.000	26.840	0.7299148	0.7836151		7.4	20
Trichloroethene	A	25.000	26.480	1.871643	1.982723		5.9	20
Trichlorofluoromethane	A	25.000	22.710	5.955213	5.410883		-9.1	20
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	27.610	2.72796	3.013067		10.5	20
Vinyl chloride	A	25.000	25.560	2.657671	2.716851		2.2	20
p- & m-Xylenes	A	50.000	47.620	2.147465	2.04517		-4.8	20
o-Xylene	A	25.000	24.810	2.024587	2.009543		-0.7	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

Ahtna Global, LLC
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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC03.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV2	Injection Time:	05:26

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	342.25	0.1409957	0.1507998		7.0	20

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC31.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV3	Injection Time:	16:47

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Benzene	A	25.000	27.190	9.607888	10.44943		8.8	50
Bromobenzene	A	25.000	20.570	1.326353	1.091469		-17.7	50
Bromodichloromethane	A	25.000	24.610	1.575109	1.550587		-1.6	50
Bromoform	Q	25.000	22.090	0.2573055	0.2623935		-11.6	50
Bromomethane	A	25.000	20.420	2.300908	1.879629		-18.3	50
Carbon tetrachloride	A	25.000	24.560	3.319819	3.261835		-1.7	50
Chlorobenzene	A	25.000	23.910	3.134177	2.997596		-4.4	50
Chloroethane	A	25.000	29.120	1.809937	2.10853		16.5	50
Chloroform	A	25.000	24.080	4.878337	4.69807		-3.7	50
Chloromethane	A	25.000	24.930	2.034432	2.029103		-0.3	50
Dibromochloromethane	Q	25.000	23.610	0.7313397	0.7818921		-5.6	50
Dibromomethane	A	25.000	24.960	0.5502374	0.5494028		-0.2	50
1,2-Dichlorobenzene	A	25.000	20.740	2.154084	1.786968		-17.0	50
1,3-Dichlorobenzene	A	25.000	19.430	2.637713	2.049619		-22.3	50
1,4-Dichlorobenzene	A	25.000	20.250	2.475465	2.005516		-19.0	50
Dichlorodifluoromethane	A	25.000	23.500	4.269146	4.013217		-6.0	50
1,1-Dichloroethane	A	25.000	26.130	4.415287	4.615409		4.5	50
1,2-Dichloroethane	A	25.000	22.630	2.271288	2.055801		-9.5	50
1,1-Dichloroethene	A	25.000	25.980	3.781745	3.929661		3.9	50
cis-1,2-Dichloroethene	A	25.000	27.570	2.739709	3.021396		10.3	50
trans-1,2-Dichloroethene	A	25.000	27.350	2.772549	3.032718		9.4	50
1,2-Dichloropropane	A	25.000	27.440	1.157099	1.269889		9.7	50
cis-1,3-Dichloropropene	A	25.000	26.700	1.650388	1.762843		6.8	50

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Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC31.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV3	Injection Time:	16:47

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
trans-1,3-Dichloropropene	A	25.000	25.640	1.206787	1.237519		2.5	50
Ethylbenzene	A	25.000	24.660	1.874882	1.849153		-1.4	50
Methylene chloride	A	25.000	28.600	2.135873	2.443819		14.4	50
1,1,1,2-Tetrachloroethane	A	25.000	23.240	0.9769089	0.9082344		-7.0	50
1,1,2,2-Tetrachloroethane	A	25.000	20.680	0.4875764	0.403265		-17.3	50
Tetrachloroethene	A	25.000	24.400	2.047917	1.998436		-2.4	50
Toluene	A	25.000	25.580	4.108775	4.20357		2.3	50
1,1,1-Trichloroethane	A	25.000	22.890	5.027759	4.60304		-8.4	50
1,1,2-Trichloroethane	A	25.000	25.650	0.7299148	0.7488324		2.6	50
Trichloroethene	A	25.000	25.460	1.871643	1.905975		1.8	50
Trichlorofluoromethane	A	25.000	22.550	5.955213	5.371552		-9.8	50
1,1,2-Trichloro-1,2,2-trifluoroethane	A	25.000	26.100	2.72796	2.847854		4.4	50
Vinyl chloride	A	25.000	24.940	2.657671	2.651733		-0.2	50
p- & m-Xylenes	A	50.000	49.880	2.147465	2.14251		-0.2	50
o-Xylene	A	25.000	25.320	2.024587	2.050582		1.3	50

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

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(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

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Anchorage, ALASKA 99503

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

CONTINUING CALIBRATION CHECK

EPA-8260C

Laboratory:	BC Laboratories	SDG:	2139227
Client:	Ahtna Global, LLC $AHTT	Project:	Lompoc PDB Groundwater
Instrument ID:	MS-V5	Calibration:	2112015
Lab File ID:	23DEC32.D	Calibration Date:	12/12/21 07:10
Sequence:	2125965	Injection Date:	12/23/21
Lab Sample ID:	2125965-CCV4	Injection Time:	17:12

	(1) CAL	CONC. (ug/L)		RESPONSE FACTOR			% DIFF / DRIFT (2)	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN (#)	CCV	LIMIT (#)
Acetone	A	320.00	332.85	0.1409957	0.1466561		4.0	50

Column to be used to flag Response Factor and %Diff/Drift values with an asterisk

* Values outside of QC limits for beginning CCVs. For ending CCVs, limit is 50.

(1): Cal Type (Calibration Type): A = Average; L = Linear Regression; Q = Quadratic Regression

(2): % Diff (of Response Factors) reported when Cal Type = A; %Drift (of Conc) reported when Cal Type = L or Q

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Initial Cal Check (2125965-ICV1)			Lab File ID: 12DEC12.D		Analyzed: 12/12/21 11:13			
1,2-Dichloroethane-d4 (Surrogate)	10.000	98.1	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	97.6	85 - 114	10.48	10.48667	-0.0067	+/-1.0	
Initial Cal Blank (2125965-ICB1)			Lab File ID: 12DEC14.D		Analyzed: 12/12/21 12:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	97.9	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	104	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	98.2	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Calibration Check (2125965-CCV1)			Lab File ID: 23DEC02.D		Analyzed: 12/23/21 05:01			
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.5	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	109	89 - 112	8.76	8.768334	-0.0083	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.7	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Calibration Blank (2125965-CCB1)			Lab File ID: 23DEC04.D		Analyzed: 12/23/21 05:50			
1,2-Dichloroethane-d4 (Surrogate)	10.000	90.8	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.76	8.768334	-0.0083	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	89.8	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Blank (B128095-BLK1)			Lab File ID: 23DEC05.D		Analyzed: 12/23/21 06:14			
1,2-Dichloroethane-d4 (Surrogate)	10.000	83.6	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	107	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.0	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW01B1-121621-N (2139227-01)			Lab File ID: 23DEC06.D		Analyzed: 12/23/21 06:39			
1,2-Dichloroethane-d4 (Surrogate)	10.000	82.9	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	110	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	88.2	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW01B3-121621-N (2139227-03)			Lab File ID: 23DEC08.D		Analyzed: 12/23/21 07:28			
1,2-Dichloroethane-d4 (Surrogate)	10.000	87.5	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	110	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.4	85 - 114	10.49	10.48667	0.0033	+/-1.0	

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
WRMW04A-121621-N (2139227-04)			Lab File ID: 23DEC09.D		Analyzed: 12/23/21 07:52			
1,2-Dichloroethane-d4 (Surrogate)	10.000	86.9	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.3	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW08A-121621-N (2139227-06)			Lab File ID: 23DEC10.D		Analyzed: 12/23/21 08:16			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.2	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	89.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW09A-121621-N (2139227-07)			Lab File ID: 23DEC11.D		Analyzed: 12/23/21 08:40			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.0	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	106	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	90.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW11A-121621-N (2139227-09)			Lab File ID: 23DEC12.D		Analyzed: 12/23/21 09:05			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.0	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	90.4	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW10A-121621-N (2139227-08)			Lab File ID: 23DEC16.D		Analyzed: 12/23/21 10:42			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.7	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	110	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	91.1	85 - 114	10.49	10.48667	0.0033	+/-1.0	
FB-121621 (2139227-11)			Lab File ID: 23DEC17.D		Analyzed: 12/23/21 11:07			
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.0	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	110	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	90.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	
TB-121621 (2139227-12)			Lab File ID: 23DEC18.D		Analyzed: 12/23/21 11:31			
1,2-Dichloroethane-d4 (Surrogate)	10.000	90.7	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	109	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
LCS (B128095-BS1)			Lab File ID: 23DEC19.D		Analyzed: 12/23/21 11:55			
1,2-Dichloroethane-d4 (Surrogate)	10.000	91.2	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	112	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	96.3	85 - 114	10.49	10.48667	0.0033	+/-1.0	
LCS Dup (B128095-BSD1)			Lab File ID: 23DEC21.D		Analyzed: 12/23/21 12:44			
1,2-Dichloroethane-d4 (Surrogate)	10.000	85.6	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	114	89 - 112	8.77	8.768334	0.0017	+/-1.0	*
4-Bromofluorobenzene (Surrogate)	10.000	96.2	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Matrix Spike (B128095-MS1)			Lab File ID: 23DEC22.D		Analyzed: 12/23/21 13:08			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.1	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	114	89 - 112	8.77	8.768334	0.0017	+/-1.0	*
4-Bromofluorobenzene (Surrogate)	10.000	93.6	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Matrix Spike Dup (B128095-MSD1)			Lab File ID: 23DEC23.D		Analyzed: 12/23/21 13:33			
1,2-Dichloroethane-d4 (Surrogate)	10.000	89.4	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	111	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	94.1	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW01B2-121621-N (2139227-02)			Lab File ID: 23DEC26.D		Analyzed: 12/23/21 14:46			
1,2-Dichloroethane-d4 (Surrogate)	10.000	101	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	106	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	99.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW12A-121621-N (2139227-10)			Lab File ID: 23DEC27.D		Analyzed: 12/23/21 15:10			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.3	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	112	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.1	85 - 114	10.49	10.48667	0.0033	+/-1.0	
WRMW08A-121621-D (2139227-13)			Lab File ID: 23DEC28.D		Analyzed: 12/23/21 15:34			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.9	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	111	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	92.0	85 - 114	10.49	10.48667	0.0033	+/-1.0	

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
WRMW05A-121621-N (2139227-05)			Lab File ID: 23DEC29.D		Analyzed: 12/23/21 15:59			
1,2-Dichloroethane-d4 (Surrogate)	10.000	85.5	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	112	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	93.1	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Calibration Check (2125965-CCV3)			Lab File ID: 23DEC31.D		Analyzed: 12/23/21 16:47			
1,2-Dichloroethane-d4 (Surrogate)	10.000	92.1	81 - 118	7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	109	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	87.5	85 - 114	10.49	10.48667	0.0033	+/-1.0	
Calibration Blank (2125965-CCB2)			Lab File ID: 23DEC33.D		Analyzed: 12/23/21 17:36			
1,2-Dichloroethane-d4 (Surrogate)	10.000	88.6	81 - 118	7.13	7.12	0.0100	+/-1.0	
Toluene-d8 (Surrogate)	10.000	108	89 - 112	8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	74.3	85 - 114	10.49	10.48667	0.0033	+/-1.0	*

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

SURROGATE STANDARD RECOVERY AND RT SUMMARY

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125971
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
Cal Standard (2125971-CAL1)			Lab File ID: 12DEC03.D		Analyzed: 12/12/21 07:10			
1,2-Dichloroethane-d4 (Surrogate)	10.000	117		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	91.1		8.76	8.768334	-0.0083	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	104		10.49	10.48667	0.0033	+/-1.0	
Cal Standard (2125971-CAL2)			Lab File ID: 12DEC05.D		Analyzed: 12/12/21 07:59			
1,2-Dichloroethane-d4 (Surrogate)	10.000	117		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	91.4		8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	106		10.48	10.48667	-0.0067	+/-1.0	
Cal Standard (2125971-CAL3)			Lab File ID: 12DEC06.D		Analyzed: 12/12/21 08:23			
1,2-Dichloroethane-d4 (Surrogate)	10.000	112		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	91.6		8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	111		10.49	10.48667	0.0033	+/-1.0	
Cal Standard (2125971-CAL4)			Lab File ID: 12DEC07.D		Analyzed: 12/12/21 08:47			
1,2-Dichloroethane-d4 (Surrogate)	10.000	113		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	94.0		8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	109		10.49	10.48667	0.0033	+/-1.0	
Cal Standard (2125971-CAL5)			Lab File ID: 12DEC08.D		Analyzed: 12/12/21 09:11			
1,2-Dichloroethane-d4 (Surrogate)	10.000	115		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	92.7		8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	113		10.49	10.48667	0.0033	+/-1.0	
Cal Standard (2125971-CAL6)			Lab File ID: 12DEC09.D		Analyzed: 12/12/21 09:36			
1,2-Dichloroethane-d4 (Surrogate)	10.000	114		7.12	7.12	0.0000	+/-1.0	
Toluene-d8 (Surrogate)	10.000	95.1		8.77	8.768334	0.0017	+/-1.0	
4-Bromofluorobenzene (Surrogate)	10.000	115		10.48	10.48667	-0.0067	+/-1.0	

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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (2125965-ICV1)			Lab File ID: 12DEC12.D			Analyzed: 12/12/21 11:13			
Pentafluorobenzene (IS)	48832	6.81	52592	6.82	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	100452	9.77	103823	9.77	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	74292	7.57	80932	7.57	92	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (2125965-ICB1)			Lab File ID: 12DEC14.D			Analyzed: 12/12/21 12:01			
Pentafluorobenzene (IS)	49951	6.81	52592	6.82	95	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99423	9.76	103823	9.77	96	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	76001	7.57	80932	7.57	94	50 - 200	0.0000	+/-0.50	
Initial Cal Check (2125965-ICV2)			Lab File ID: 12DEC24.D			Analyzed: 12/12/21 16:04			
Pentafluorobenzene (IS)	51538	6.81	52592	6.82	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	105865	9.77	103823	9.77	102	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	76666	7.57	80932	7.57	95	50 - 200	0.0000	+/-0.50	
Initial Cal Blank (2125965-ICB2)			Lab File ID: 12DEC26.D			Analyzed: 12/12/21 16:52			
Pentafluorobenzene (IS)	50620	6.81	52592	6.82	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	102448	9.77	103823	9.77	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	76500	7.57	80932	7.57	95	50 - 200	0.0000	+/-0.50	
Calibration Check (2125965-CCV1)			Lab File ID: 23DEC02.D			Analyzed: 12/23/21 05:01			
Pentafluorobenzene (IS)	45595	6.81	52592	6.82	87	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	102444	9.76	103823	9.77	99	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	72213	7.57	80932	7.57	89	50 - 200	0.0000	+/-0.50	
Calibration Check (2125965-CCV2)			Lab File ID: 23DEC03.D			Analyzed: 12/23/21 05:26			
Pentafluorobenzene (IS)	44907	6.83	52592	6.82	85	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99045	9.77	103823	9.77	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69440	7.58	80932	7.57	86	50 - 200	0.0100	+/-0.50	
Calibration Blank (2125965-CCB1)			Lab File ID: 23DEC04.D			Analyzed: 12/23/21 05:50			
Pentafluorobenzene (IS)	46570	6.8	52592	6.82	89	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5 (IS)	103315	9.76	103823	9.77	100	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	74047	7.57	80932	7.57	91	50 - 200	0.0000	+/-0.50	

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (B128095-BLK1)			Lab File ID: 23DEC05.D			Analyzed: 12/23/21 06:14			
Pentafluorobenzene (IS)	46439	6.82	52592	6.82	88	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	96495	9.77	103823	9.77	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	72232	7.57	80932	7.57	89	50 - 200	0.0000	+/-0.50	
WRMW01B1-121621-N (2139227-01)			Lab File ID: 23DEC06.D			Analyzed: 12/23/21 06:39			
Pentafluorobenzene (IS)	45691	6.83	52592	6.82	87	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99133	9.77	103823	9.77	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70554	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	
WRMW01B3-121621-N (2139227-03)			Lab File ID: 23DEC08.D			Analyzed: 12/23/21 07:28			
Pentafluorobenzene (IS)	44914	6.81	52592	6.82	85	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	97057	9.77	103823	9.77	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69266	7.57	80932	7.57	86	50 - 200	0.0000	+/-0.50	
WRMW04A-121621-N (2139227-04)			Lab File ID: 23DEC09.D			Analyzed: 12/23/21 07:52			
Pentafluorobenzene (IS)	44675	6.82	52592	6.82	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	96249	9.77	103823	9.77	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70111	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	
WRMW08A-121621-N (2139227-06)			Lab File ID: 23DEC10.D			Analyzed: 12/23/21 08:16			
Pentafluorobenzene (IS)	43526	6.82	52592	6.82	83	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	98875	9.77	103823	9.77	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70827	7.58	80932	7.57	88	50 - 200	0.0100	+/-0.50	
WRMW09A-121621-N (2139227-07)			Lab File ID: 23DEC11.D			Analyzed: 12/23/21 08:40			
Pentafluorobenzene (IS)	45139	6.82	52592	6.82	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	98105	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	71424	7.58	80932	7.57	88	50 - 200	0.0100	+/-0.50	
WRMW11A-121621-N (2139227-09)			Lab File ID: 23DEC12.D			Analyzed: 12/23/21 09:05			
Pentafluorobenzene (IS)	44521	6.81	52592	6.82	85	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	97736	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70308	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
WRMW10A-121621-N (2139227-08)			Lab File ID: 23DEC16.D			Analyzed: 12/23/21 10:42			
Pentafluorobenzene (IS)	44679	6.82	52592	6.82	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	97917	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69011	7.57	80932	7.57	85	50 - 200	0.0000	+/-0.50	
FB-121621 (2139227-11)			Lab File ID: 23DEC17.D			Analyzed: 12/23/21 11:07			
Pentafluorobenzene (IS)	44000	6.83	52592	6.82	84	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	96759	9.77	103823	9.77	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	67575	7.57	80932	7.57	83	50 - 200	0.0000	+/-0.50	
TB-121621 (2139227-12)			Lab File ID: 23DEC18.D			Analyzed: 12/23/21 11:31			
Pentafluorobenzene (IS)	43210	6.83	52592	6.82	82	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	93227	9.77	103823	9.77	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	67540	7.58	80932	7.57	83	50 - 200	0.0100	+/-0.50	
LCS (B128095-BS1)			Lab File ID: 23DEC19.D			Analyzed: 12/23/21 11:55			
Pentafluorobenzene (IS)	43070	6.82	52592	6.82	82	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	95406	9.77	103823	9.77	92	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	66488	7.58	80932	7.57	82	50 - 200	0.0100	+/-0.50	
LCS Dup (B128095-BSD1)			Lab File ID: 23DEC21.D			Analyzed: 12/23/21 12:44			
Pentafluorobenzene (IS)	46917	6.82	52592	6.82	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	99671	9.77	103823	9.77	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69600	7.57	80932	7.57	86	50 - 200	0.0000	+/-0.50	
Matrix Spike (B128095-MS1)			Lab File ID: 23DEC22.D			Analyzed: 12/23/21 13:08			
Pentafluorobenzene (IS)	46653	6.83	52592	6.82	89	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	102052	9.77	103823	9.77	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70297	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	
Matrix Spike Dup (B128095-MSD1)			Lab File ID: 23DEC23.D			Analyzed: 12/23/21 13:33			
Pentafluorobenzene (IS)	46659	6.82	52592	6.82	89	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	101670	9.77	103823	9.77	98	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	73650	7.58	80932	7.57	91	50 - 200	0.0100	+/-0.50	

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Project: Lompoc PDB Groundwater
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Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125965
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
WRMW01B2-121621-N (2139227-02)			Lab File ID: 23DEC26.D			Analyzed: 12/23/21 14:46			
Pentafluorobenzene (IS)	32686	6.83	52592	6.82	62	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	66719	9.77	103823	9.77	64	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	49310	7.58	80932	7.57	61	50 - 200	0.0100	+/-0.50	
WRMW12A-121621-N (2139227-10)			Lab File ID: 23DEC27.D			Analyzed: 12/23/21 15:10			
Pentafluorobenzene (IS)	45405	6.82	52592	6.82	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	97906	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	68968	7.58	80932	7.57	85	50 - 200	0.0100	+/-0.50	
WRMW08A-121621-D (2139227-13)			Lab File ID: 23DEC28.D			Analyzed: 12/23/21 15:34			
Pentafluorobenzene (IS)	45227	6.82	52592	6.82	86	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	99152	9.77	103823	9.77	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69381	7.57	80932	7.57	86	50 - 200	0.0000	+/-0.50	
WRMW05A-121621-N (2139227-05)			Lab File ID: 23DEC29.D			Analyzed: 12/23/21 15:59			
Pentafluorobenzene (IS)	46259	6.83	52592	6.82	88	50 - 200	0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	98048	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	68376	7.57	80932	7.57	84	50 - 200	0.0000	+/-0.50	
Calibration Check (2125965-CCV3)			Lab File ID: 23DEC31.D			Analyzed: 12/23/21 16:47			
Pentafluorobenzene (IS)	42429	6.81	52592	6.82	81	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	93109	9.77	103823	9.77	90	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	69075	7.58	80932	7.57	85	50 - 200	0.0100	+/-0.50	
Calibration Check (2125965-CCV4)			Lab File ID: 23DEC32.D			Analyzed: 12/23/21 17:12			
Pentafluorobenzene (IS)	44579	6.82	52592	6.82	85	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	96547	9.77	103823	9.77	93	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70059	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	
Calibration Blank (2125965-CCB2)			Lab File ID: 23DEC33.D			Analyzed: 12/23/21 17:36			
Pentafluorobenzene (IS)	45709	6.82	52592	6.82	87	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	97196	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	70526	7.58	80932	7.57	87	50 - 200	0.0100	+/-0.50	

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125971
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (2125971-CAL1)			Lab File ID: 12DEC03.D			Analyzed: 12/12/21 07:10			
Pentafluorobenzene (IS)	50763	6.8	52592	6.82	97	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5 (IS)	99704	9.76	103823	9.77	96	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	81542	7.57	80932	7.57	101	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL2)			Lab File ID: 12DEC05.D			Analyzed: 12/12/21 07:59			
Pentafluorobenzene (IS)	48838	6.81	52592	6.82	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	98990	9.77	103823	9.77	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	77467	7.56	80932	7.57	96	50 - 200	-0.0100	+/-0.50	
Cal Standard (2125971-CAL3)			Lab File ID: 12DEC06.D			Analyzed: 12/12/21 08:23			
Pentafluorobenzene (IS)	50817	6.81	52592	6.82	97	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	97712	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	80803	7.57	80932	7.57	100	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL4)			Lab File ID: 12DEC07.D			Analyzed: 12/12/21 08:47			
Pentafluorobenzene (IS)	51410	6.81	52592	6.82	98	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	100719	9.77	103823	9.77	97	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	79447	7.57	80932	7.57	98	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL5)			Lab File ID: 12DEC08.D			Analyzed: 12/12/21 09:11			
Pentafluorobenzene (IS)	52592	6.82	52592	6.82	100	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	103823	9.77	103823	9.77	100	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	80932	7.57	80932	7.57	100	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL6)			Lab File ID: 12DEC09.D			Analyzed: 12/12/21 09:36			
Pentafluorobenzene (IS)	49826	6.82	52592	6.82	95	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	97423	9.77	103823	9.77	94	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	75829	7.57	80932	7.57	94	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL7)			Lab File ID: 12DEC15.D			Analyzed: 12/12/21 12:26			
Pentafluorobenzene (IS)	48847	6.81	52592	6.82	93	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99519	9.77	103823	9.77	96	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	76350	7.57	80932	7.57	94	50 - 200	0.0000	+/-0.50	

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INTERNAL STANDARD AREA AND RT SUMMARY
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125971
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration: 2112015

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Cal Standard (2125971-CAL8)			Lab File ID: 12DEC17.D			Analyzed: 12/12/21 13:14			
Pentafluorobenzene (IS)	50230	6.81	52592	6.82	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99196	9.76	103823	9.77	96	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	75898	7.57	80932	7.57	94	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CAL9)			Lab File ID: 12DEC18.D			Analyzed: 12/12/21 13:38			
Pentafluorobenzene (IS)	49309	6.8	52592	6.82	94	50 - 200	-0.0200	+/-0.50	
Chlorobenzene-d5 (IS)	98732	9.77	103823	9.77	95	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	72866	7.57	80932	7.57	90	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CALA)			Lab File ID: 12DEC19.D			Analyzed: 12/12/21 14:02			
Pentafluorobenzene (IS)	50542	6.81	52592	6.82	96	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	99474	9.76	103823	9.77	96	50 - 200	-0.0100	+/-0.50	
1,4-Difluorobenzene (IS)	76314	7.57	80932	7.57	94	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CALB)			Lab File ID: 12DEC20.D			Analyzed: 12/12/21 14:27			
Pentafluorobenzene (IS)	50243	6.82	52592	6.82	96	50 - 200	0.0000	+/-0.50	
Chlorobenzene-d5 (IS)	102766	9.77	103823	9.77	99	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	77046	7.57	80932	7.57	95	50 - 200	0.0000	+/-0.50	
Cal Standard (2125971-CALC)			Lab File ID: 12DEC21.D			Analyzed: 12/12/21 14:51			
Pentafluorobenzene (IS)	51988	6.81	52592	6.82	99	50 - 200	-0.0100	+/-0.50	
Chlorobenzene-d5 (IS)	107683	9.77	103823	9.77	104	50 - 200	0.0000	+/-0.50	
1,4-Difluorobenzene (IS)	80673	7.57	80932	7.57	100	50 - 200	0.0000	+/-0.50	

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Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INITIAL CALIBRATION STANDARDS

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Sequence: 2125971
Calibration: 2112015

SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5

Standard ID	Description	Lab Sample ID	Lab File ID	Analysis Date/Time
1I29003	8260 /524.2 V5 BFB 50NG	2125971-TUN1	12DEC02.D	12/12/21 06:43
1L12061	8260 B/524.2 V5 2125249-CAL1	2125971-CAL1	12DEC03.D	12/12/21 07:10
1L12062	8260 B/524.2 V5 2125249-CAL2	2125971-CAL2	12DEC05.D	12/12/21 07:59
1L12063	8260 B/524.2 V5 2125249-CAL3	2125971-CAL3	12DEC06.D	12/12/21 08:23
1L12064	8260 B/524.2 V5 2125249-CAL4	2125971-CAL4	12DEC07.D	12/12/21 08:47
1L12065	8260 B/524.2 V5 2125249-CAL5	2125971-CAL5	12DEC08.D	12/12/21 09:11
1L12066	8260 B/524.2 V5 2125249-CAL6	2125971-CAL6	12DEC09.D	12/12/21 09:36
1L12068	8260 B/524.2 V5 2125249-CAL7	2125971-CAL7	12DEC15.D	12/12/21 12:26
1L12070	8260 B/524.2 V5 2125249-CAL8	2125971-CAL8	12DEC17.D	12/12/21 13:14
1L12071	8260 B/524.2 V5 2125249-CAL9	2125971-CAL9	12DEC18.D	12/12/21 13:38
1L12072	8260 B/524.2 V5 2125249-CALA	2125971-CALA	12DEC19.D	12/12/21 14:02
1L12073	8260 B/524.2 V5 2125249-CALB	2125971-CALB	12DEC20.D	12/12/21 14:27
1L12074	8260 B/524.2 V5 2125249-CALC	2125971-CALC	12DEC21.D	12/12/21 14:51

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Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INITIAL CALIBRATION DATA

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Calibration: 2112015
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration Date: 12/12/21 07:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene	0.5	10.06127	1	10.42692	5	9.631186	10	9.273429	25	9.294357	50	8.960165
Bromobenzene	0.5	1.251906	1	1.378725	5	1.330645	10	1.289777	25	1.331871	50	1.375191
Bromodichloromethane	0.5	1.40909	1	1.480501	5	1.444625	10	1.570708	25	1.705086	50	1.840644
Bromoform	0.5	0.1773249	1	0.1866855	5	0.2366342	10	0.2575383	25	0.3099583	50	0.3756916
Bromomethane	0.5	1.731182	1	2.537573	5	2.36228	10	2.352752	25	2.389991	50	2.43167
Carbon tetrachloride	0.5	2.929693	1	3.082436	5	3.127812	10	3.260066	25	3.615926	50	3.902982
Chlorobenzene	0.5	3.230562	1	3.34953	5	3.222061	10	3.064367	25	3.008474	50	2.930066
Chloroethane	0.5	1.909265	1	1.913674	5	1.826475	10	1.700739	25	1.743505	50	1.765962
Chloroform	0.5	5.035951	1	5.147631	5	4.950154	10	4.68438	25	4.726133	50	4.725774
Chloromethane	0.5	2.192936	1	2.211393	5	1.99819	10	1.921649	25	1.912656	50	1.969767
Dibromochloromethane	0.5	0.5324863	1	0.5966412	5	0.6901476	10	0.7454278	25	0.8403895	50	0.9829458
Dibromomethane	0.5	0.50428	1	0.5883796	5	0.5442867	10	0.5368485	25	0.5499481	50	0.5776814
1,2-Dichlorobenzene	0.5	1.961606	1	2.17133	5	2.237739	10	2.1627	25	2.193922	50	2.197204
1,3-Dichlorobenzene	0.5	2.600096	1	2.808567	5	2.796811	10	2.52718	25	2.556166	50	2.53746
1,4-Dichlorobenzene	0.5	2.461687	1	2.47429	5	2.504503	10	2.455654	25	2.460464	50	2.496189
Dichlorodifluoromethane	0.5	4.25231	1	4.492608	5	4.350119	10	4.320482	25	4.202761	50	3.996596
1,1-Dichloroethane	0.5	4.844473	1	4.546869	5	4.459571	10	4.164404	25	4.228544	50	4.247863
1,2-Dichloroethane	0.5	2.248882	1	2.509726	5	2.262196	10	2.189535	25	2.187542	50	2.229848
1,1-Dichloroethene	0.5	3.998188	1	3.81711	5	3.813291	10	3.640187	25	3.698532	50	3.723161
cis-1,2-Dichloroethene	0.5	2.852471	1	2.707523	5	2.799536	10	2.63546	25	2.677381	50	2.765885
trans-1,2-Dichloroethene	0.5	2.928117	1	2.920062	5	2.755298	10	2.681443	25	2.662534	50	2.687842
1,2-Dichloropropane	0.5	1.104952	1	1.195348	5	1.160996	10	1.125606	25	1.16481	50	1.190882
cis-1,3-Dichloropropene	0.5	1.415467	1	1.527747	5	1.570263	10	1.649401	25	1.814956	50	1.924493
trans-1,3-Dichloropropene	0.5	1.040691	1	1.134677	5	1.083772	10	1.19384	25	1.332185	50	1.455557
Ethylbenzene	0.5	1.857498	1	1.935044	5	1.892541	10	1.857723	25	1.865953	50	1.840533

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Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INITIAL CALIBRATION DATA
EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Calibration: 2112015
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration Date: 12/12/21 07:10

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methylene chloride	0.5	1.938026	1	2.373357	5	2.145699	10	2.091655	25	2.107841	50	2.15866
1,1,1,2-Tetrachloroethane	0.5	0.8972559	1	0.8881705	5	0.9512649	10	0.958002	25	1.046708	50	1.120052
1,1,2,2-Tetrachloroethane	0.5	0.4423092	1	0.5057076	5	0.4592066	10	0.4802867	25	0.4991187	50	0.5388296
Tetrachloroethene	0.5	2.091438	1	2.062168	5	2.039503	10	2.004582	25	2.049073	50	2.040736
Toluene	0.5	4.369037	1	4.313579	5	3.982179	10	4.065364	25	3.994529	50	3.927959
1,1,1-Trichloroethane	0.5	5.263676	1	4.984029	5	4.893481	10	4.830208	25	4.997832	50	5.197327
1,1,2-Trichloroethane	0.5	0.7419489	1	0.6706081	5	0.7188347	10	0.7360379	25	0.7272723	50	0.7847868
Trichloroethene	0.5	1.893993	1	2.065525	5	1.785379	10	1.809307	25	1.813152	50	1.862499
Trichlorofluoromethane	0.5	6.023679	1	6.456448	5	6.043804	10	5.76773	25	5.801856	50	5.637763
1,1,2-Trichloro-1,2,2-trifluoroethar	0.5	2.830408	1	2.725132	5	2.803589	10	2.642793	25	2.68288	50	2.682957
Vinyl chloride	0.5	2.731123	1	2.806626	5	2.649153	10	2.621922	25	2.564436	50	2.572765
Acetone												
p- & m-Xylenes	1	2.017171	2	2.205021	10	2.301867	20	2.183908	50	2.14372	100	2.033102
o-Xylene	0.5	1.849675	1	2.010708	5	2.085537	10	2.059691	25	2.06629	50	2.075621
1,2-Dichloroethane-d4 (Surrogate)	10	1.918582	10	1.926471	10	1.849302	10	1.862575	10	1.886675	10	1.879059
Toluene-d8 (Surrogate)	10	5.452613	10	5.471388	10	5.48393	10	5.628369	10	5.552007	10	5.691596
4-Bromofluorobenzene (Surrogate)	10	1.411287	10	1.446166	10	1.513192	10	1.488041	10	1.533899	10	1.567299

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Project Manager: Jessica Feduck

INITIAL CALIBRATION DATA (Continued)

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater
Calibration: 2112015
Instrument: MS-V5
Matrix: Water
Calibration Date: 12/12/21 07:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Benzene												
Bromobenzene												
Bromodichloromethane												
Bromoform												
Bromomethane												
Carbon tetrachloride												
Chlorobenzene												
Chloroethane												
Chloroform												
Chloromethane												
Dibromochloromethane												
Dibromomethane												
1,2-Dichlorobenzene												
1,3-Dichlorobenzene												
1,4-Dichlorobenzene												
Dichlorodifluoromethane												
1,1-Dichloroethane												
1,2-Dichloroethane												
1,1-Dichloroethene												
cis-1,2-Dichloroethene												
trans-1,2-Dichloroethene												
1,2-Dichloropropane												
cis-1,3-Dichloropropene												
trans-1,3-Dichloropropene												
Ethylbenzene												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Calibration: 2112015
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration Date: 12/12/21 07:10

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF	ug/L	RF
Methylene chloride												
1,1,1,2-Tetrachloroethane												
1,1,2,2-Tetrachloroethane												
Tetrachloroethene												
Toluene												
1,1,1-Trichloroethane												
1,1,2-Trichloroethane												
Trichloroethene												
Trichlorofluoromethane												
1,1,2-Trichloro-1,2,2-trifluoroethan												
Vinyl chloride												
Acetone	16	0.1582748	64	0.1516617	160	0.1359349	320	0.1326354	480	0.1370191	800	0.1304484
p- & m-Xylenes												
o-Xylene												
1,2-Dichloroethane-d4 (Surrogate)												
Toluene-d8 (Surrogate)												
4-Bromofluorobenzene (Surrogate)												

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INITIAL CALIBRATION DATA (Continued)

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Calibration: 2112015
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration Date: 12/12/21 07:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear COD	Quad COD	LIMIT	Q
Benzene	9.607888	5.713315	7.146667	7.275818E-02			15	
Bromobenzene	1.326353	3.702348	10.58167	4.158559E-02			15	
Bromodichloromethane	1.575109	10.65994	8.221667	5.147704E-02			15	
Bromoform	0.2573055	29.39284	10.29667	5.116925E-02		1.000	0.99	
Bromomethane	2.300908	12.477	2.595	0.2101819			15	
Carbon tetrachloride	3.319819	11.08187	6.926667	7.614952E-02			15	
Chlorobenzene	3.134177	5.059472	9.785	0.0552138			15	
Chloroethane	1.809937	4.890357	2.731667	0.1484803			15	
Chloroform	4.878337	3.959808	6.57	1.204917E-02			15	
Chloromethane	2.034432	6.575717	2.071667	0.197134			15	
Dibromochloromethane	0.7313397	22.44952	9.38	2.144103E-02		1.000	0.99	
Dibromomethane	0.5502374	5.473274	8.073333	6.265734E-02			15	
1,2-Dichlorobenzene	2.154084	4.542108	11.38	2.580315E-02			15	
1,3-Dichlorobenzene	2.637713	4.938294	11.12	1.164645E-02			15	
1,4-Dichlorobenzene	2.475465	0.8241302	11.17	1.884928E-02			15	
Dichlorodifluoromethane	4.269146	3.892895	1.868333	0.2188204			15	
1,1-Dichloroethane	4.415287	5.812532	5.298333	7.748554E-02			15	
1,2-Dichloroethane	2.271288	5.314486	7.201667	5.503747E-02			15	
1,1-Dichloroethene	3.781745	3.334089	3.728333	0.1087193			15	
cis-1,2-Dichloroethene	2.739709	2.954873	6.116667	8.397966E-02			15	
trans-1,2-Dichloroethene	2.772549	4.383049	4.728333	8.615509E-02			15	
1,2-Dichloropropane	1.157099	3.089559	8.005	6.785906E-02			15	
cis-1,3-Dichloropropene	1.650388	11.46021	8.56	1.734563E-02			15	
trans-1,3-Dichloropropene	1.206787	13.13865	8.978333	0.0413948			15	
Ethylbenzene	1.874882	1.814619	9.84	2.032272E-02			15	
Methylene chloride	2.135873	6.584696	4.38	0.1436615			15	

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

INITIAL CALIBRATION DATA (Continued)

EPA-8260C

Laboratory: BC Laboratories
Client: Ahtna Global, LLC $AHTT
Calibration: 2112015
Matrix: Water
SDG: 2139227
Project: Lompoc PDB Groundwater
Instrument: MS-V5
Calibration Date: 12/12/21 07:10

Compound	Mean RF	RF RSD	Mean RT	RT RSD	Linear COD	Quad COD	LIMIT	Q
1,1,1,2-Tetrachloroethane	0.9769089	9.223654	9.84	2.032272E-02			15	
1,1,2,2-Tetrachloroethane	0.4875764	7.102336	10.55	1.258342E-02			15	
Tetrachloroethene	2.047917	1.398057	9.18	1.657225E-02			15	
Toluene	4.108775	4.53158	8.818333	4.803058E-02			15	
1,1,1-Trichloroethane	5.027759	3.378604	6.76	2.159635E-02			15	
1,1,2-Trichloroethane	0.7299148	5.067325	9.12	1.867383E-02			15	
Trichloroethene	1.871643	5.496788	7.78	1.387619E-02			15	
Trichlorofluoromethane	5.955213	4.885385	3.058333	0.1340458			15	
1,1,2-Trichloro-1,2,2-trifluoroethane	2.72796	2.720288	3.751667	0.2007522			15	
Vinyl chloride	2.657671	3.56304	2.2	1.191087E-02			15	
Acetone	0.1409957	7.992098	3.79	0.013191			15	
p- & m-Xylenes	2.147465	5.039102	9.92	1.144525E-02			15	
o-Xylene	2.024587	4.422111	10.16	1.968264E-02			15	
1,2-Dichloroethane-d4 (Surrogate)	1.887111	1.613655	7.12	0.0181894			15	
Toluene-d8 (Surrogate)	5.54665	1.732193	8.768334	4.937639E-02			15	
4-Bromofluorobenzene (Surrogate)	1.493314	3.846244	10.48667	4.738689E-02			15	

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

HOLDING TIME SUMMARY

EPA-8260C

Laboratory: BC Laboratories
SDG: 2139227
Client: Ahtna Global, LLC $AHTT
Project: Lompoc PDB Groundwater

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
WRMW01B1-121621-N	12/16/21 10:50	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 06:39	7.00	14.00	
WRMW01B2-121621-N	12/16/21 10:52	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 14:46	7.00	14.00	
WRMW01B3-121621-N	12/16/21 10:55	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 07:28	7.00	14.00	
WRMW04A-121621-N	12/16/21 08:14	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 07:52	7.00	14.00	
WRMW05A-121621-N	12/16/21 09:45	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 15:59	7.00	14.00	
WRMW08A-121621-N	12/16/21 10:20	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 08:16	7.00	14.00	
WRMW09A-121621-N	12/16/21 11:15	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 08:40	7.00	14.00	
WRMW10A-121621-N	12/16/21 08:55	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 10:42	7.00	14.00	
WRMW11A-121621-N	12/16/21 09:15	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 09:05	7.00	14.00	
WRMW12A-121621-N	12/16/21 09:30	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 15:10	7.00	14.00	
FB-121621	12/16/21 10:10	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 11:07	7.00	14.00	
TB-121621	12/16/21 12:30	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 11:31	7.00	14.00	
WRMW08A-121621-D	12/16/21 10:25	12/17/21 11:30	12/23/21 05:00	7.00	14.00	12/23/21 15:34	7.00	14.00	

* Holding time not met

Note: If Prep or Analysis are performed within the hour (if holding time is based on hours) or within the day (if holding time is based on days), then the sample is not flagged as outside holding times. Calculated number of days are based on date received or date prepared depending on the test.

Raw Data From Instrument MS-V5

Raw Data - Samples

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC06.D Vial: 6
Acq On : 23 Dec 2021 6:39 am Operator: MGC
Sample : 2139227-01 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:19 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

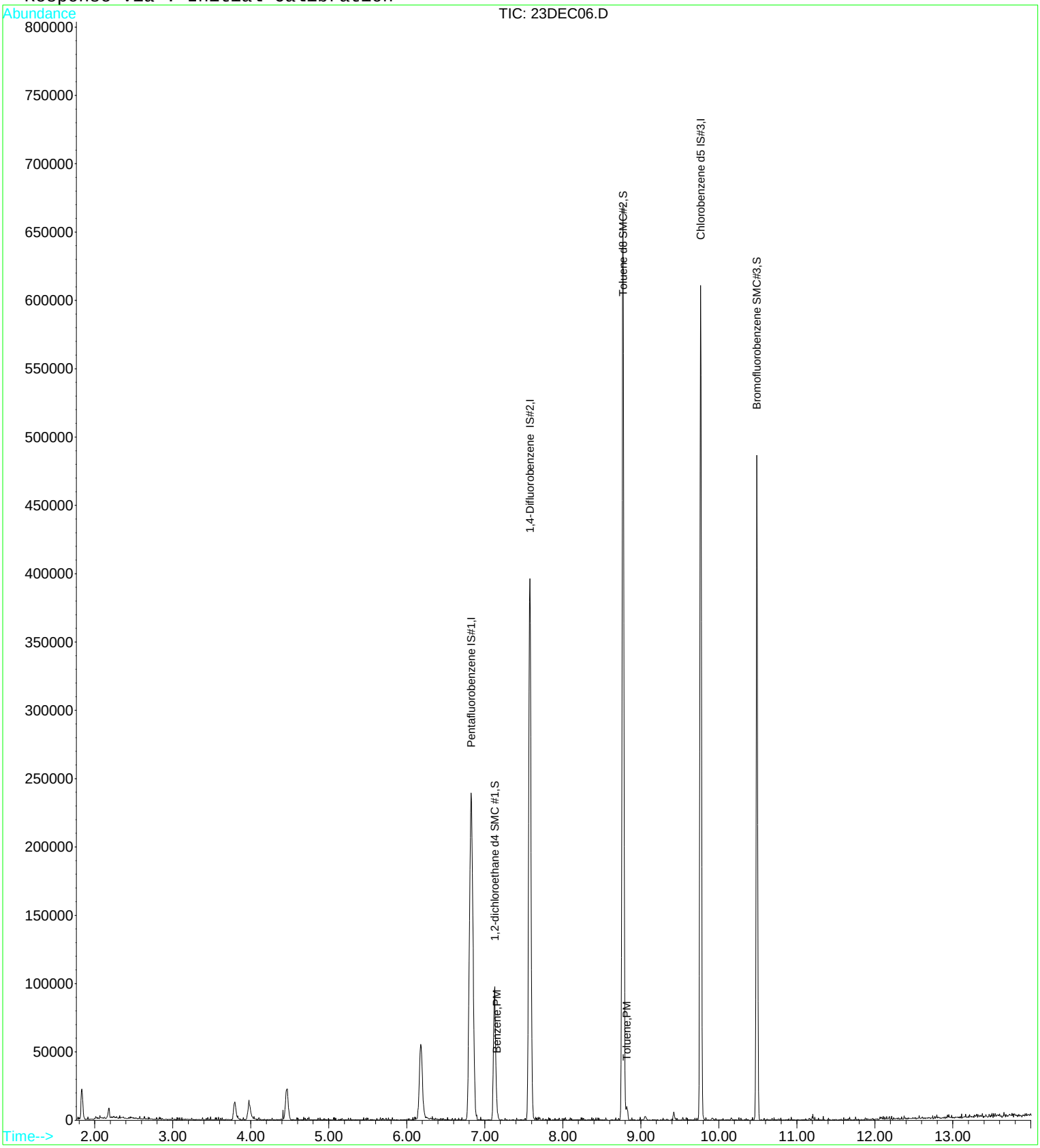
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	45691	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	70554	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	99133	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	71517	8.29	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 82.90%			
33) Toluene d8 SMC#2	8.77	98	429822	10.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.80%			
51) Bromofluorobenzene SMC#3	10.49	95	130630	8.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 88.20%			
Target Compounds						Qvalue
25) Benzene	7.16	78	7104	0.16	ug/L	# 1
34) Toluene	8.82	92	4557	0.16	ug/L	# 76

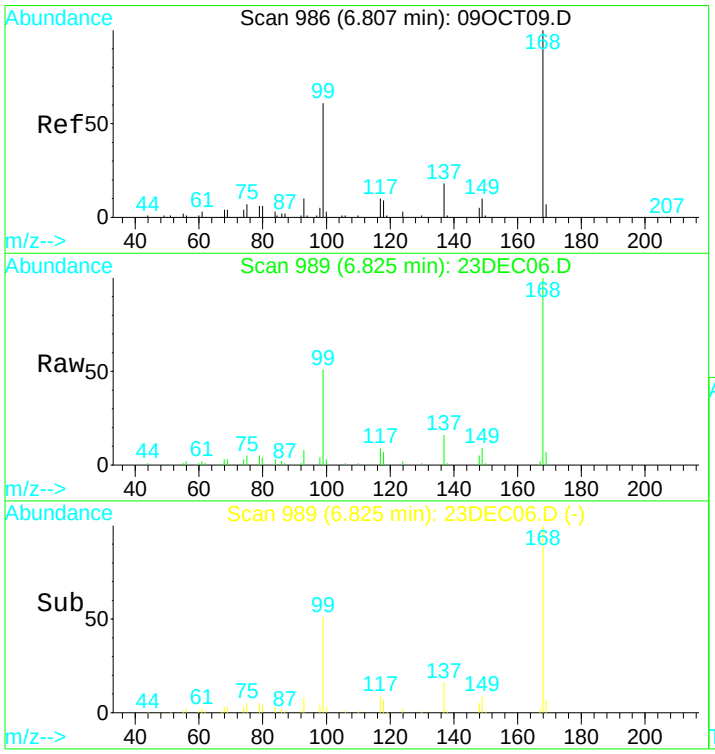
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC06.D Vial: 6
Acq On : 23 Dec 2021 6:39 am Operator: MGC
Sample : 2139227-01 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:19 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

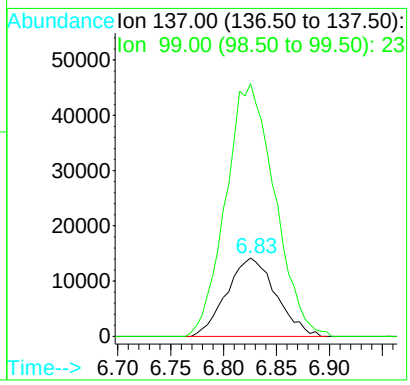


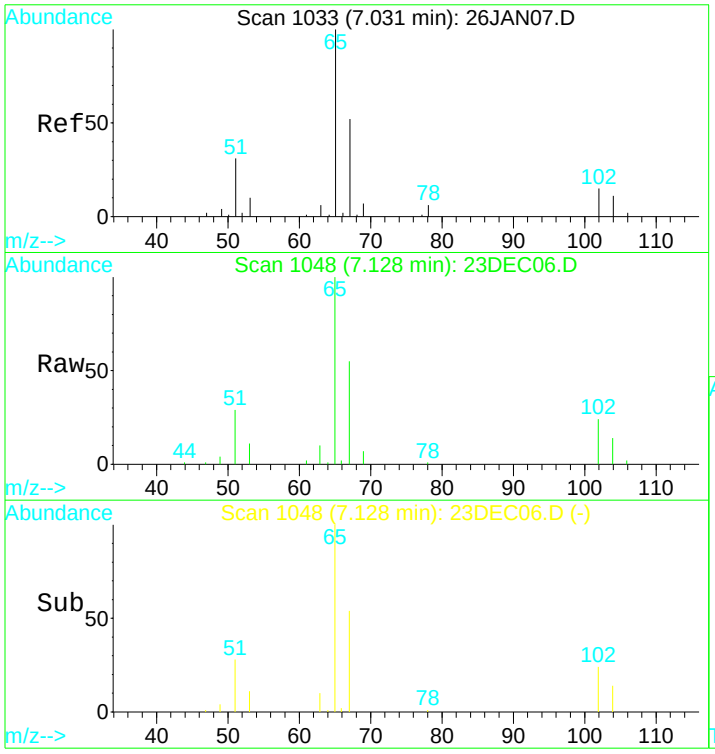


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 989
Delta R.T. 0.02 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion:137 Resp: 45691

Ion	Ratio	Lower	Upper
137	100		
99	320.9	1431.5	2658.5#

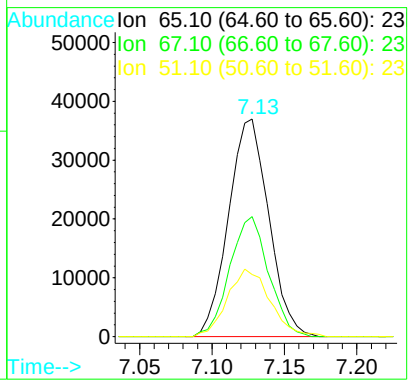


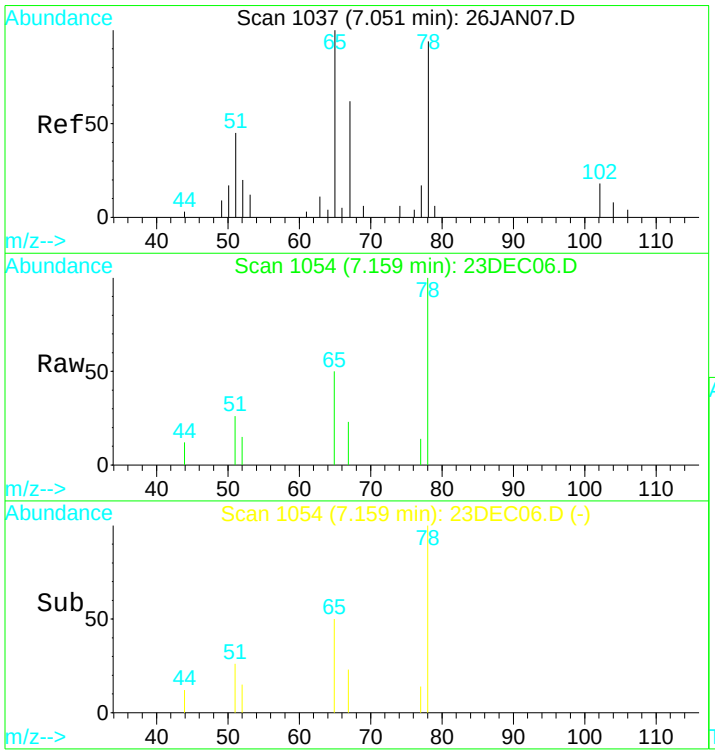


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 65 Resp: 71517

Ion	Ratio	Lower	Upper
65	100		
67	53.3	33.0	61.4
51	32.9	302.3	561.3#

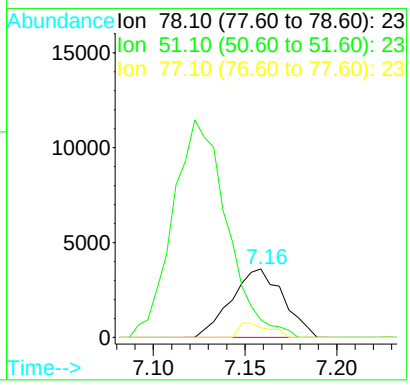


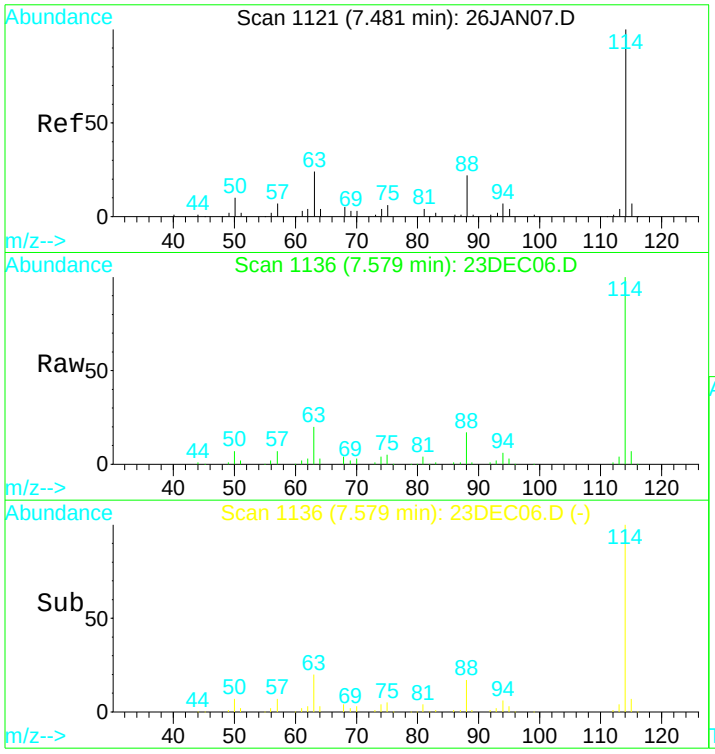


#25
Benzene
Concen: 0.16 ug/L
RT: 7.16 min Scan# 1054
Delta R.T. 0.01 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 78 Resp: 7104

Ion	Ratio	Lower	Upper
78	100		
51	331.1	12.7	23.5#
77	12.4	17.6	32.8#

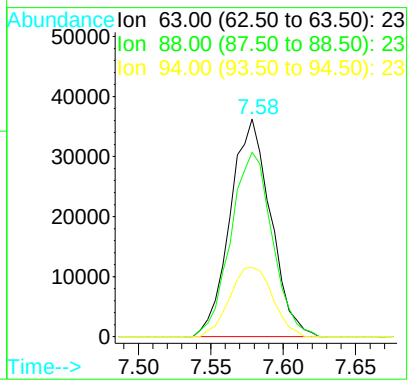


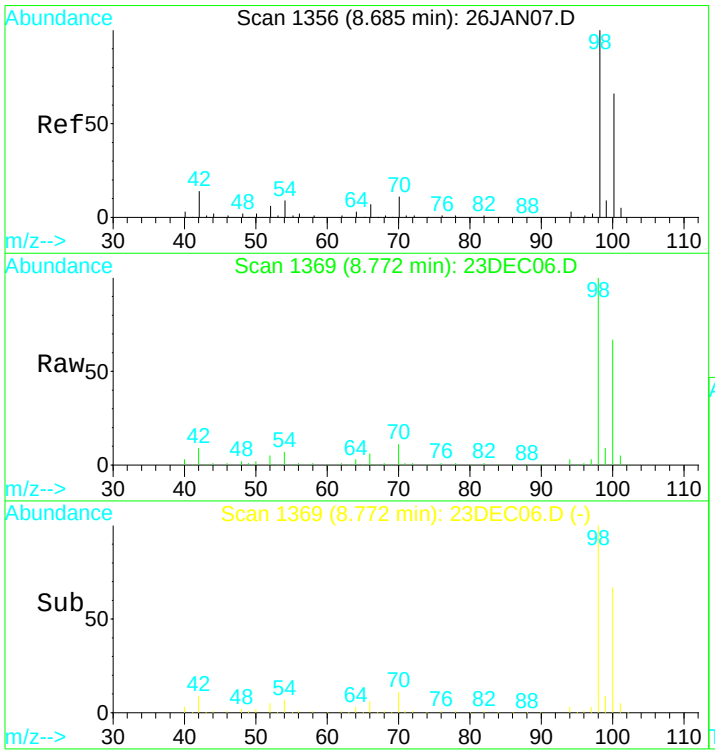


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 63 Resp: 70554

Ion	Ratio	Lower	Upper
63	100		
88	86.6	57.7	107.3
94	33.8	25.6	47.4

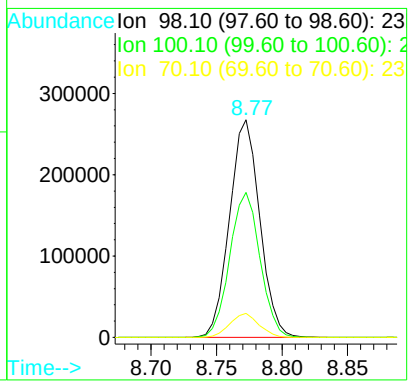


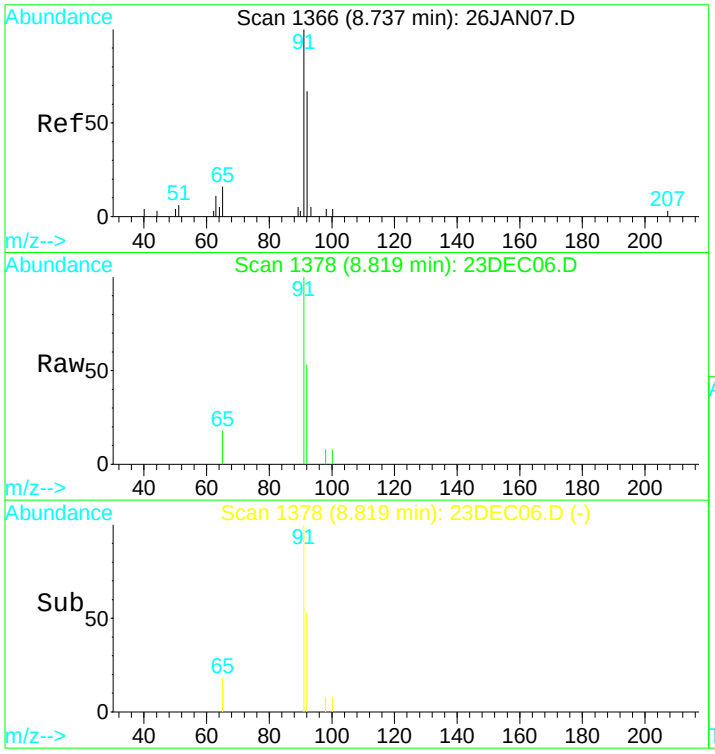


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 98 Resp: 429822

Ion	Ratio	Lower	Upper
98	100		
100	66.4	46.0	85.4
70	10.6	8.2	15.2

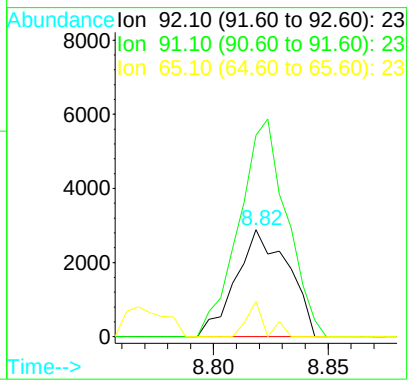


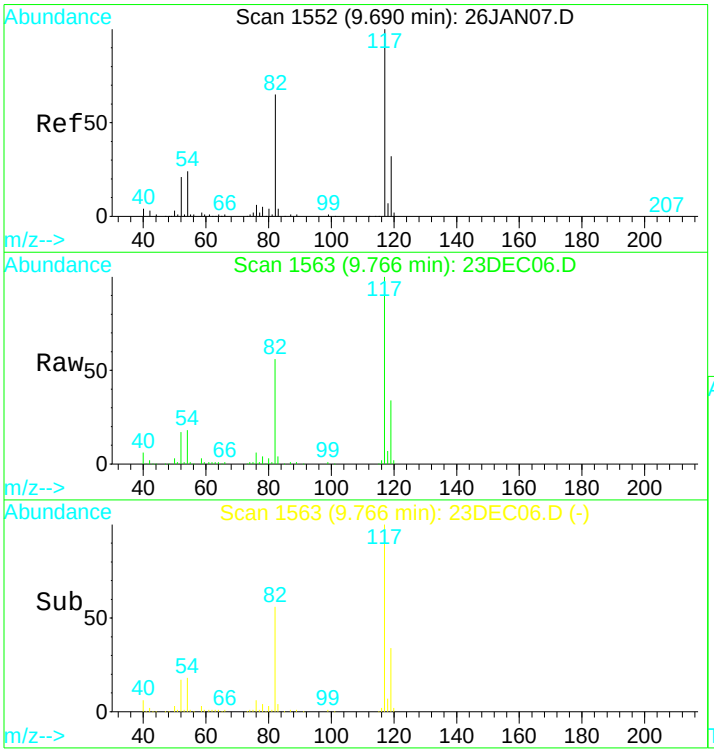


#34
Toluene
Concen: 0.16 ug/L
RT: 8.82 min Scan# 1378
Delta R.T. -0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 92 Resp: 4557

Ion	Ratio	Lower	Upper
92	100		
91	186.5	108.6	201.8
65	11.7	14.8	27.4#

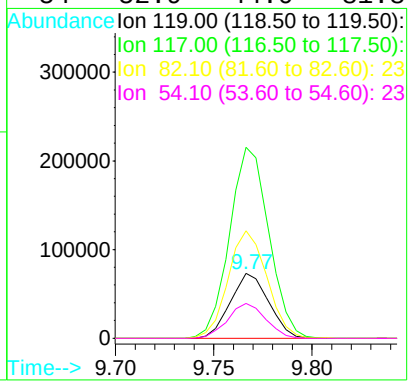


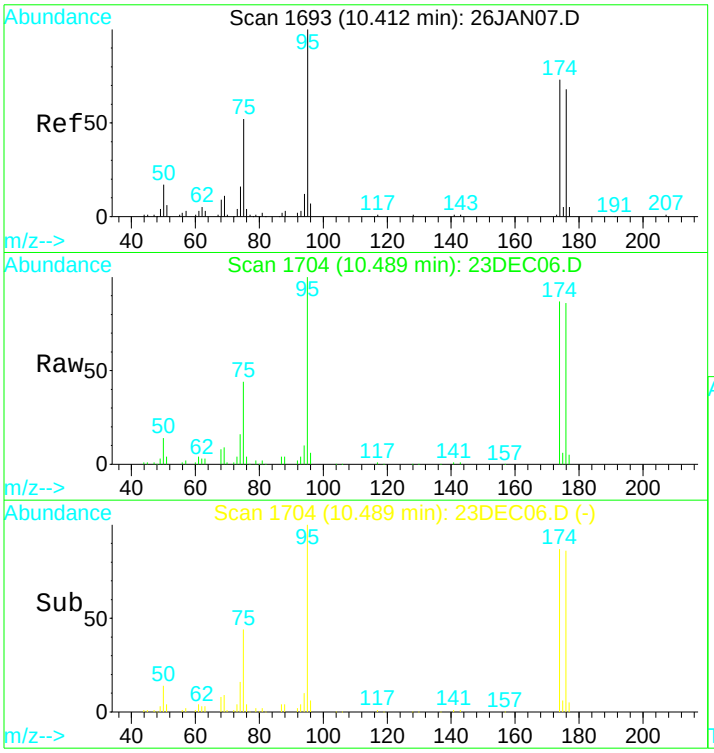


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion:119 Resp: 99133

Ion	Ratio	Lower	Upper
119	100		
117	301.3	215.8	400.8
82	167.5	123.7	229.7
54	52.9	44.0	81.8

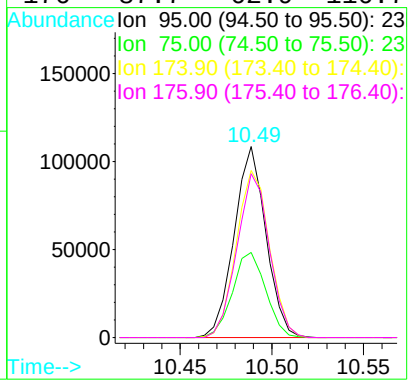




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 95 Resp: 130630

Ion	Ratio	Lower	Upper
95	100		
75	46.5	35.4	65.8
174	91.4	63.8	118.4
176	87.7	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC06.D Vial: 6
Acq On : 23 Dec 2021 6:39 am Operator: MGC
Sample : 2139227-01 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:21 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	45691	10.00	ug/L	0.01
29) 1,4-Difluorobenzene IS#2	7.58	63	70554	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	99133	10.00	ug/L	0.00

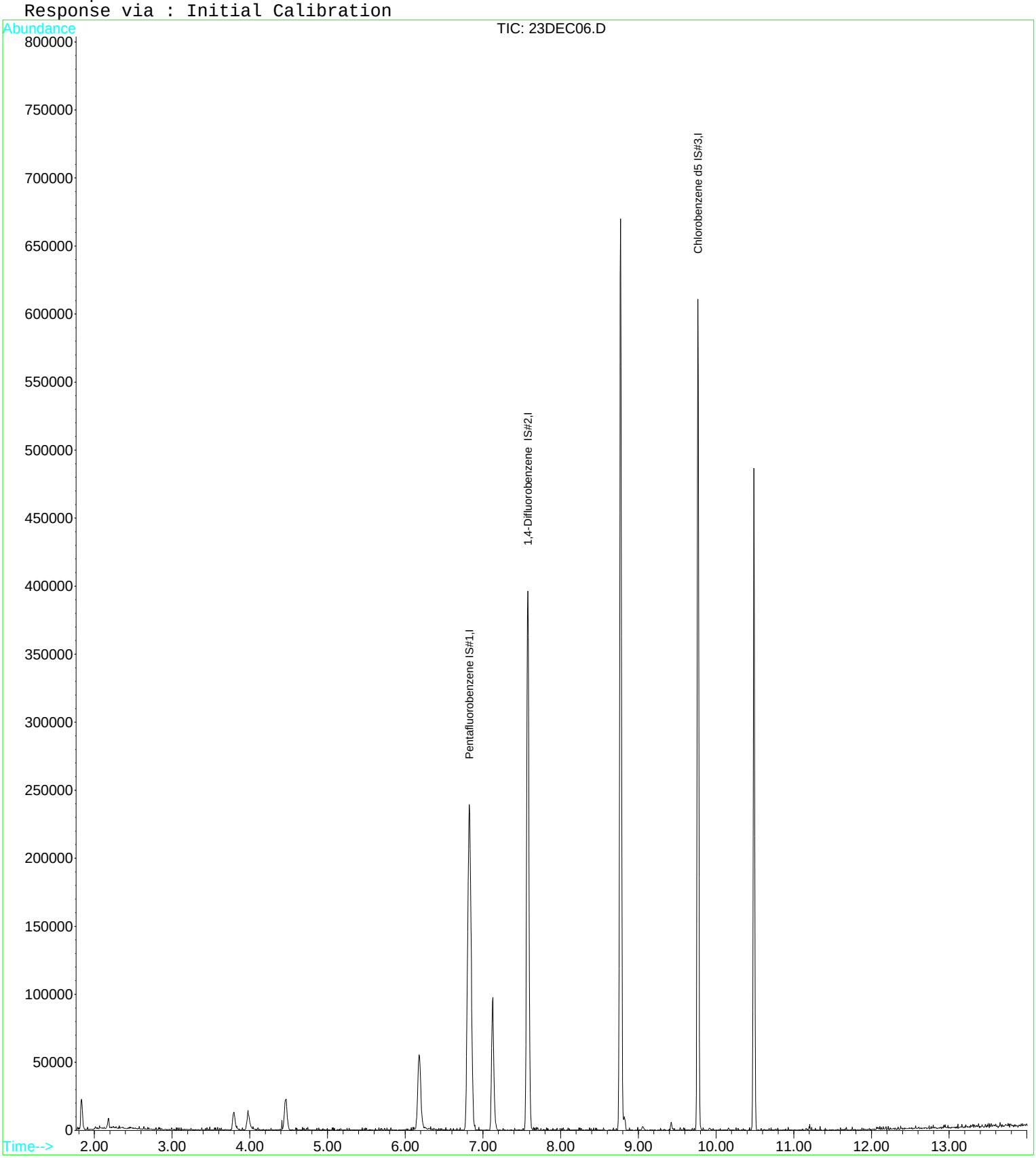
Target Compounds Qvalue

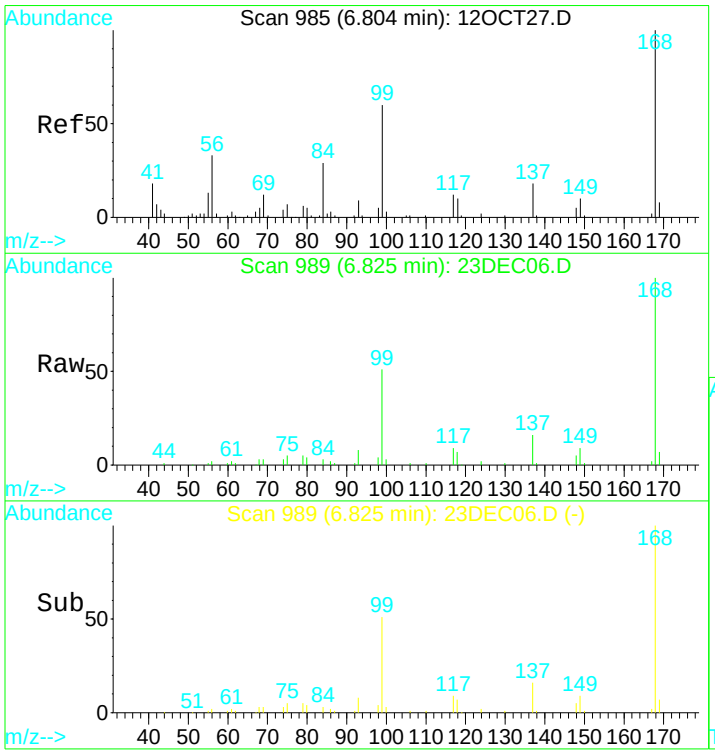
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC06.D Vial: 6
Acq On : 23 Dec 2021 6:39 am Operator: MGC
Sample : 2139227-01 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:21 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

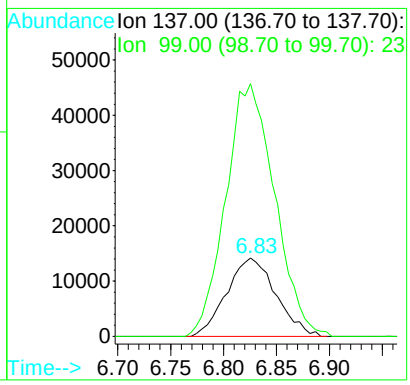


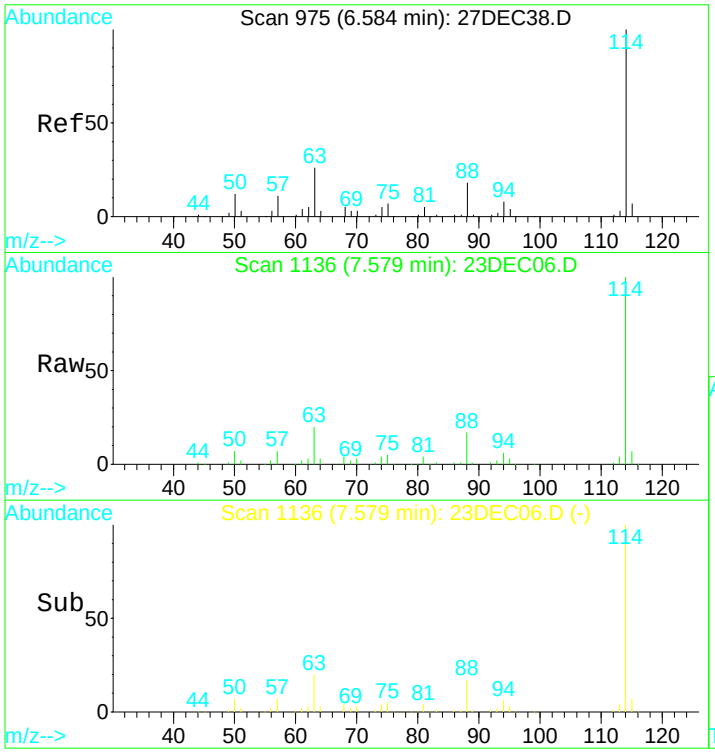


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion:137 Resp: 45691

Ion	Ratio	Lower	Upper
137	100		
99	320.9	245.3	455.5

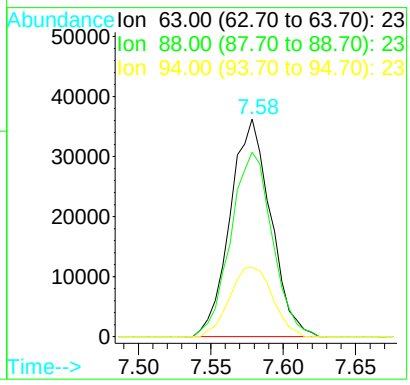


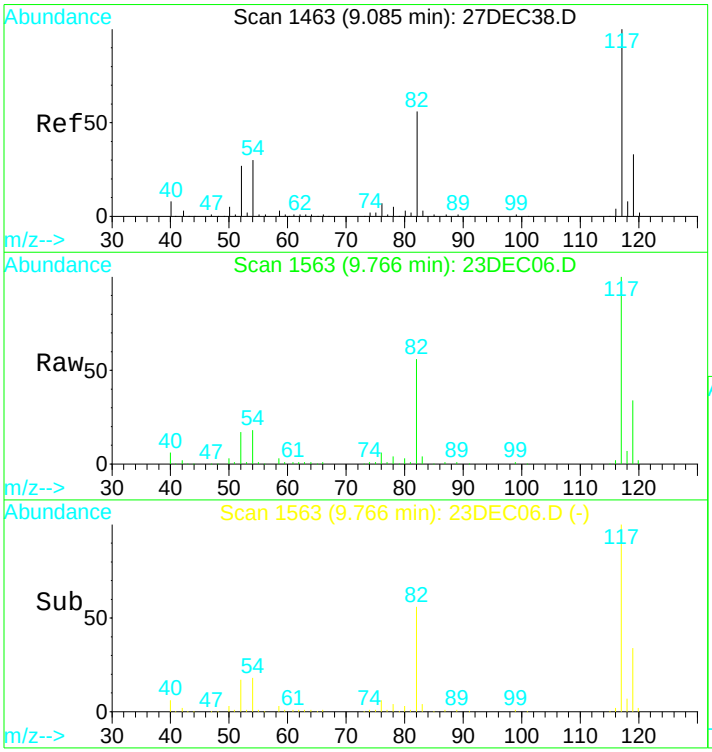


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion: 63 Resp: 70554

Ion	Ratio	Lower	Upper
63	100		
88	86.6	59.4	110.2
94	33.8	26.3	48.9

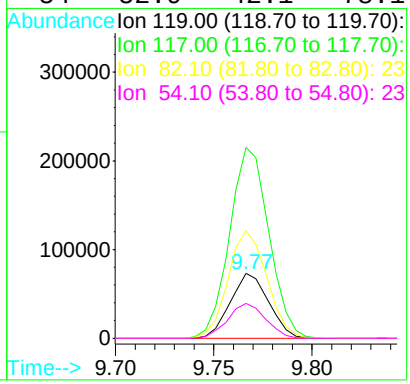




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC06.D
Acq: 23 Dec 2021 6:39 am

Tgt Ion:119 Resp: 99133

Ion	Ratio	Lower	Upper
119	100		
117	301.3	216.5	402.1
82	167.5	123.3	228.9
54	52.9	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC26.D Vial: 26
Acq On : 23 Dec 2021 2:46 pm Operator: MGC
Sample : 2139227-02 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:48 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

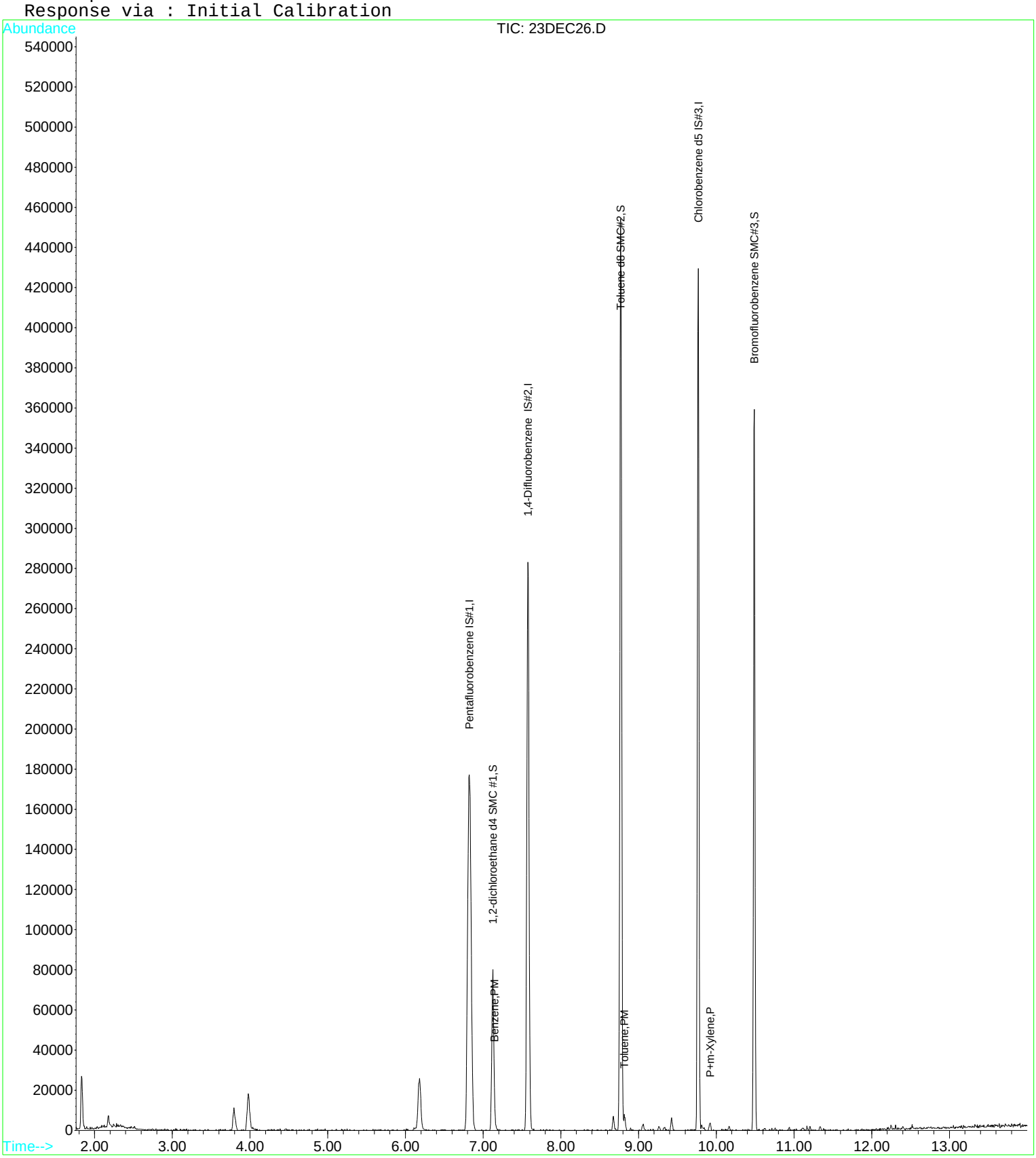
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	32686	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	49310	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	66719	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	62334	10.11	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 101.10%			
33) Toluene d8 SMC#2	8.77	98	290333	10.62	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.20%			
51) Bromofluorobenzene SMC#3	10.49	95	99110	9.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 99.50%			
Target Compounds						Qvalue
25) Benzene	7.15	78	4100	0.13	ug/L	# 1
34) Toluene	8.82	92	3454	0.17	ug/L	# 75
45) P+m-Xylene	9.92	106	1470	0.10	ug/L	# 66

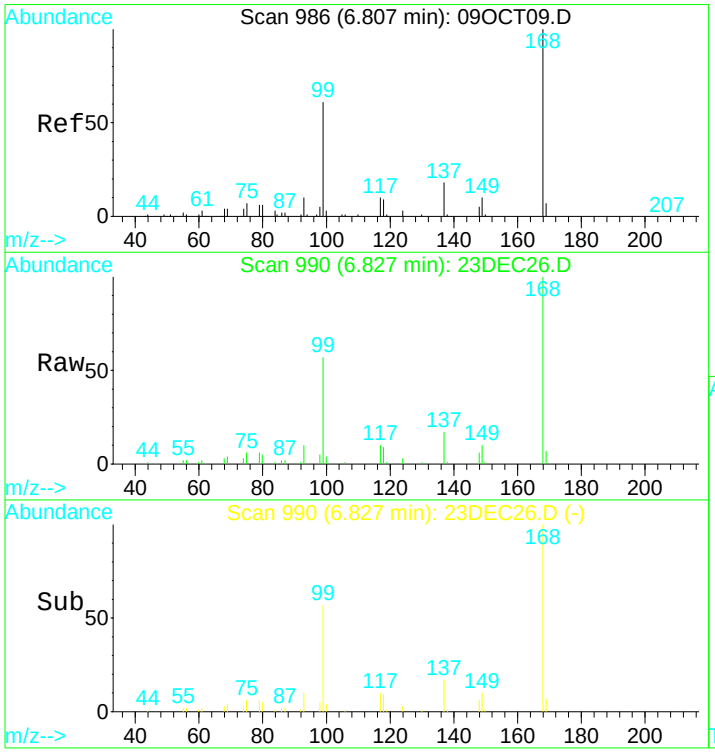
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC26.D Vial: 26
Acq On : 23 Dec 2021 2:46 pm Operator: MGC
Sample : 2139227-02 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:48 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

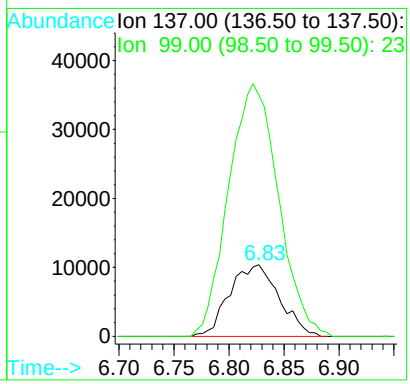


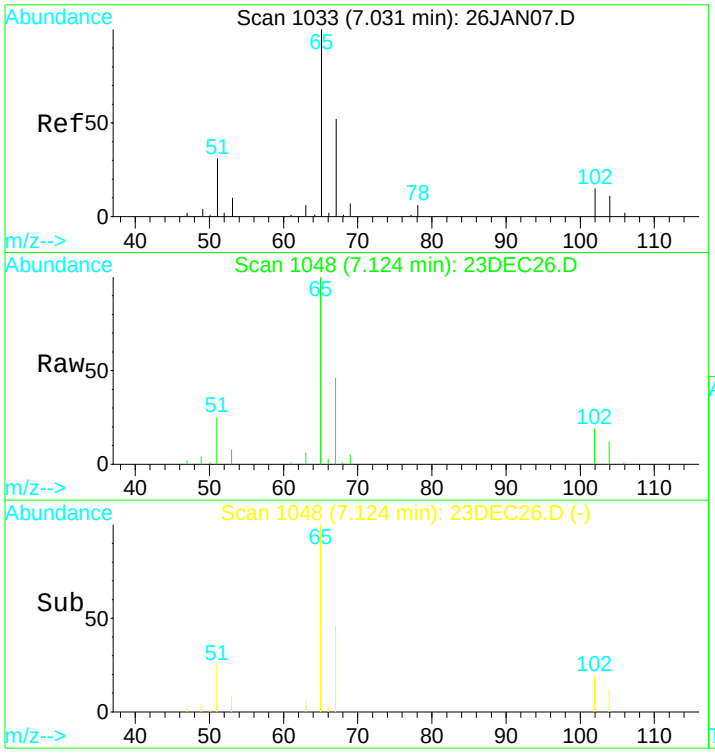


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion:137 Resp: 32686

Ion	Ratio	Lower	Upper
137	100		
99	352.7	1431.5	2658.5#

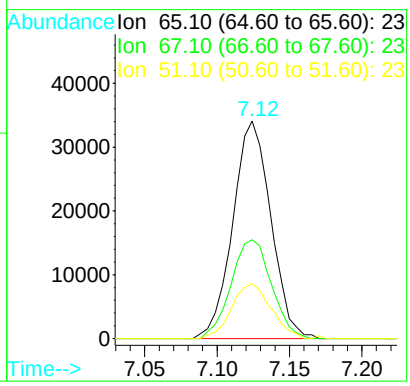


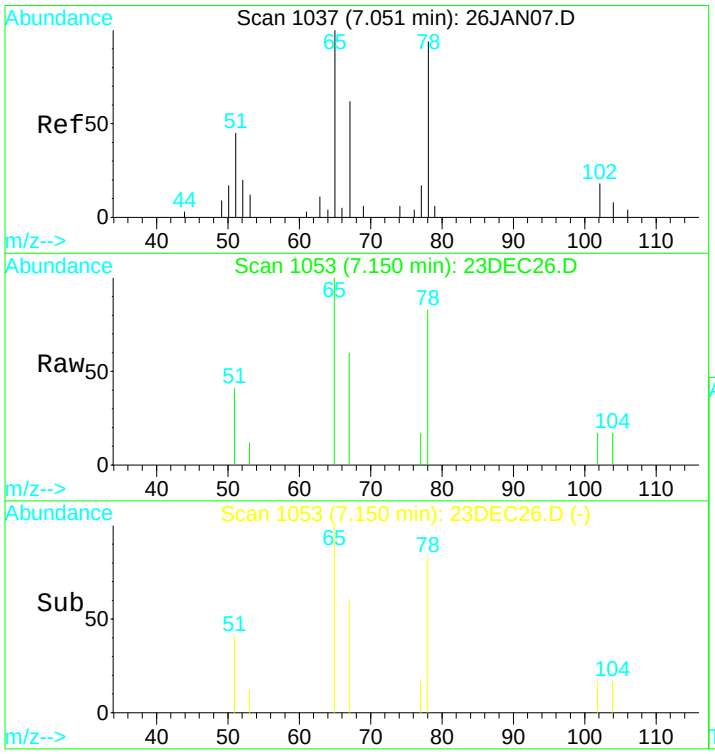


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 65 Resp: 62334

Ion	Ratio	Lower	Upper
65	100		
67	48.1	33.0	61.4
51	26.1	302.3	561.3#

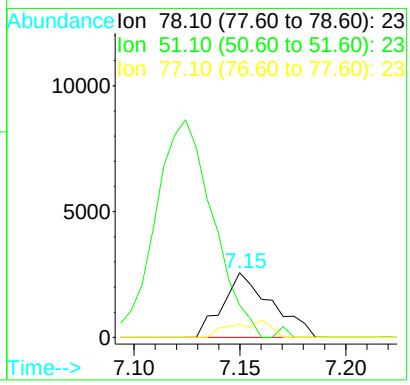


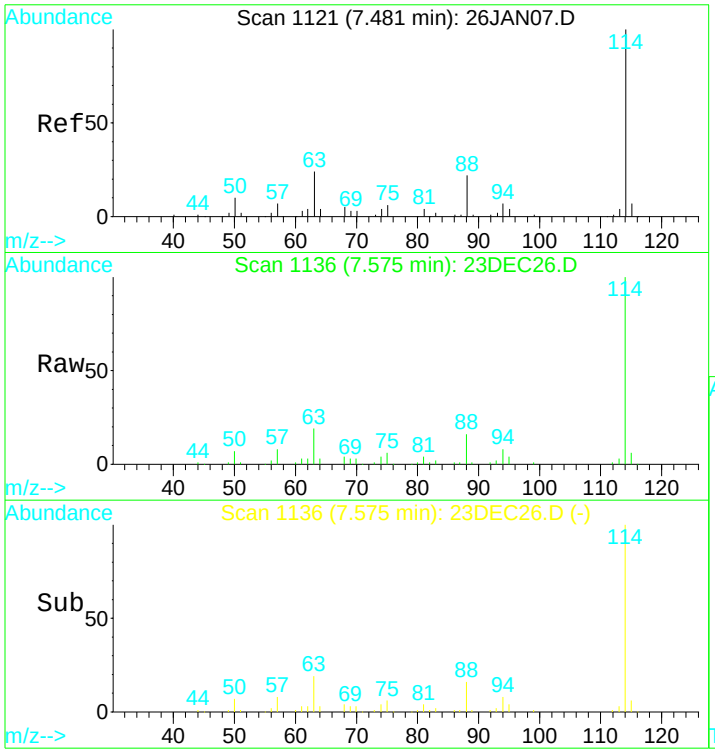


#25
Benzene
Concen: 0.13 ug/L
RT: 7.15 min Scan# 1053
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 78 Resp: 4100

Ion	Ratio	Lower	Upper
78	100		
51	396.9	12.7	23.5#
77	21.0	17.6	32.8

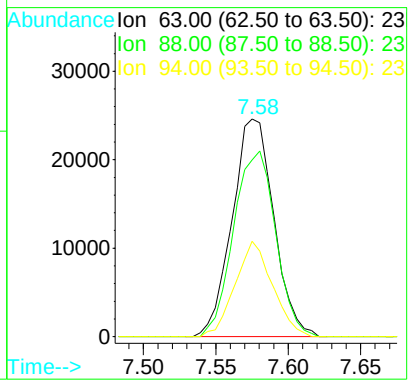


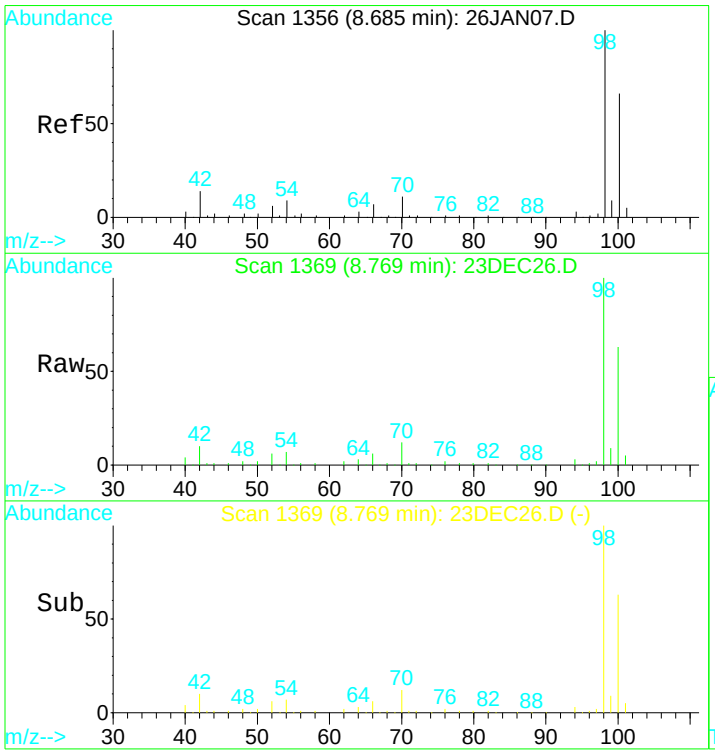


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 63 Resp: 49310

Ion	Ratio	Lower	Upper
63	100		
88	85.9	57.7	107.3
94	39.3	25.6	47.4

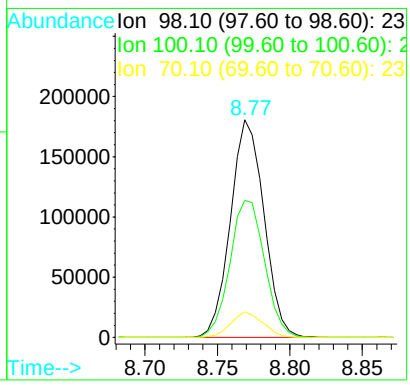


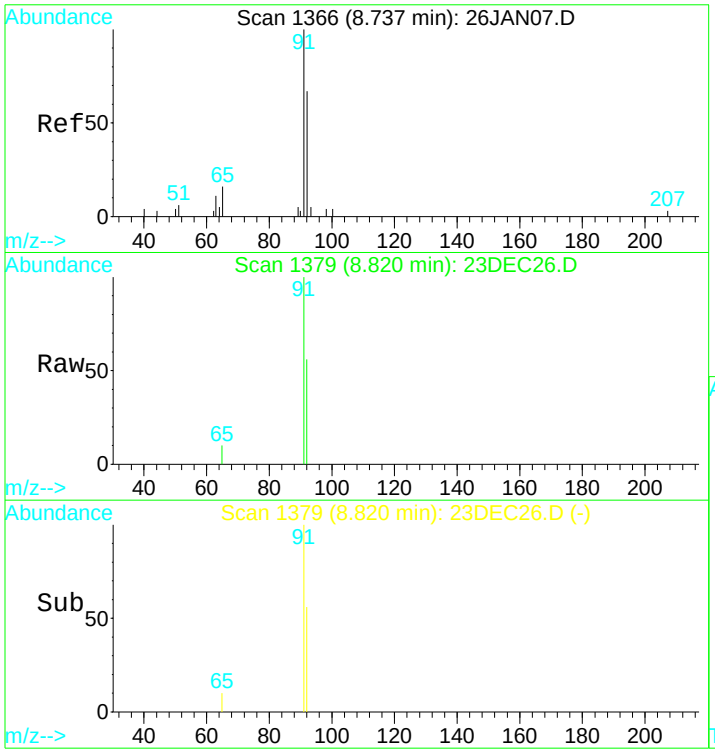


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 98 Resp: 290333

Ion	Ratio	Lower	Upper
98	100		
100	65.2	46.0	85.4
70	11.2	8.2	15.2

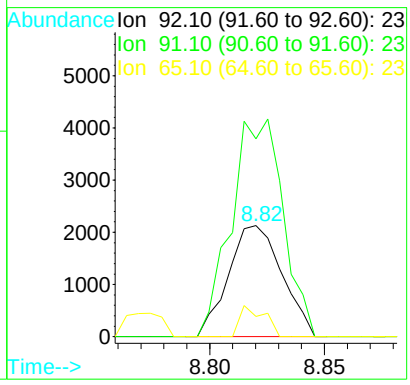


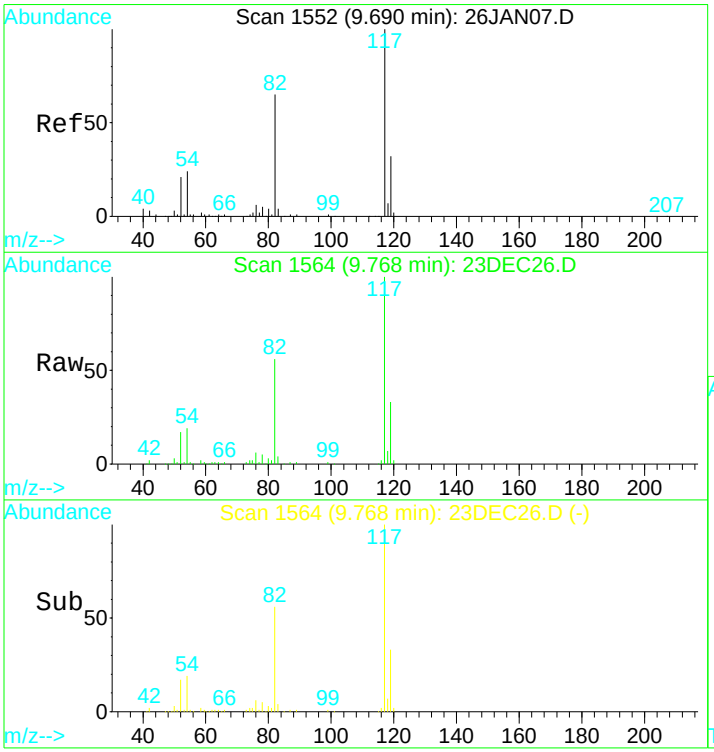


#34
Toluene
Concen: 0.17 ug/L
RT: 8.82 min Scan# 1379
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 92 Resp: 3454

Ion	Ratio	Lower	Upper
92	100		
91	189.2	108.6	201.8
65	12.7	14.8	27.4#

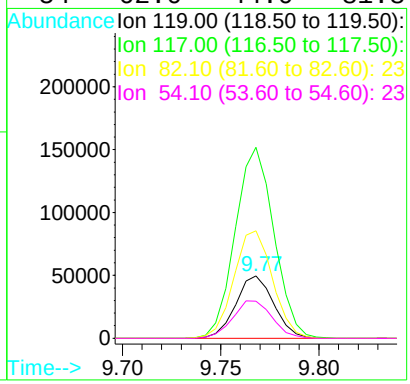


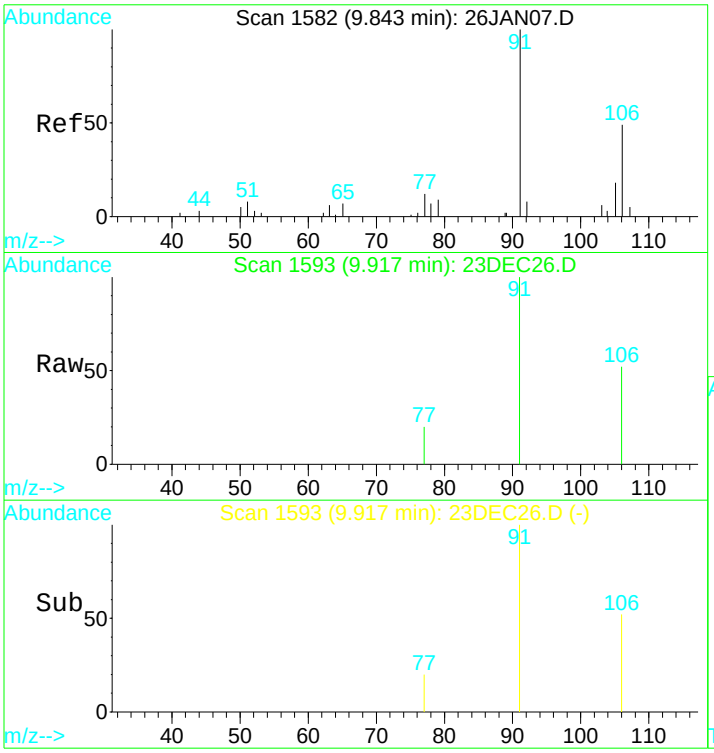


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion:119 Resp: 66719

Ion	Ratio	Lower	Upper
119	100		
117	312.2	215.8	400.8
82	175.2	123.7	229.7
54	62.0	44.0	81.8

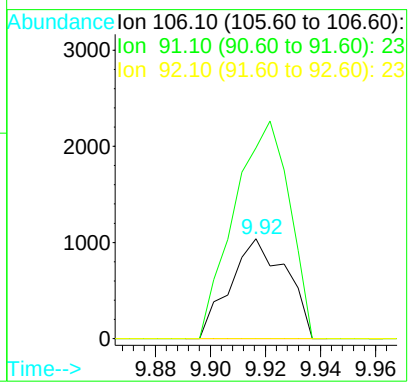


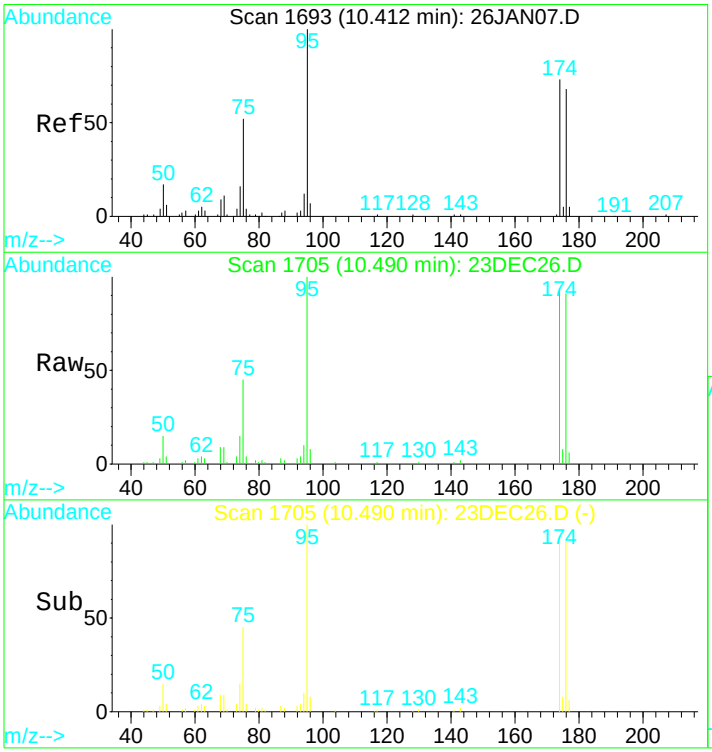


#45
P+m-Xylene
Concen: 0.10 ug/L
RT: 9.92 min Scan# 1593
Delta R.T. -0.01 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion:106 Resp: 1470

Ion	Ratio	Lower	Upper
106	100		
91	215.2	119.1	221.1
92	0.0	14.1	26.3#

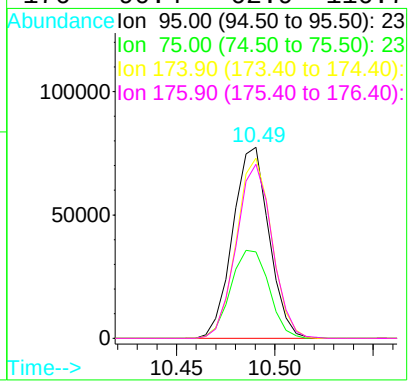




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1705
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 95 Resp: 99110

Ion	Ratio	Lower	Upper
95	100		
75	48.9	35.4	65.8
174	92.5	63.8	118.4
176	90.4	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC26.D Vial: 26
Acq On : 23 Dec 2021 2:46 pm Operator: MGC
Sample : 2139227-02 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:49 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

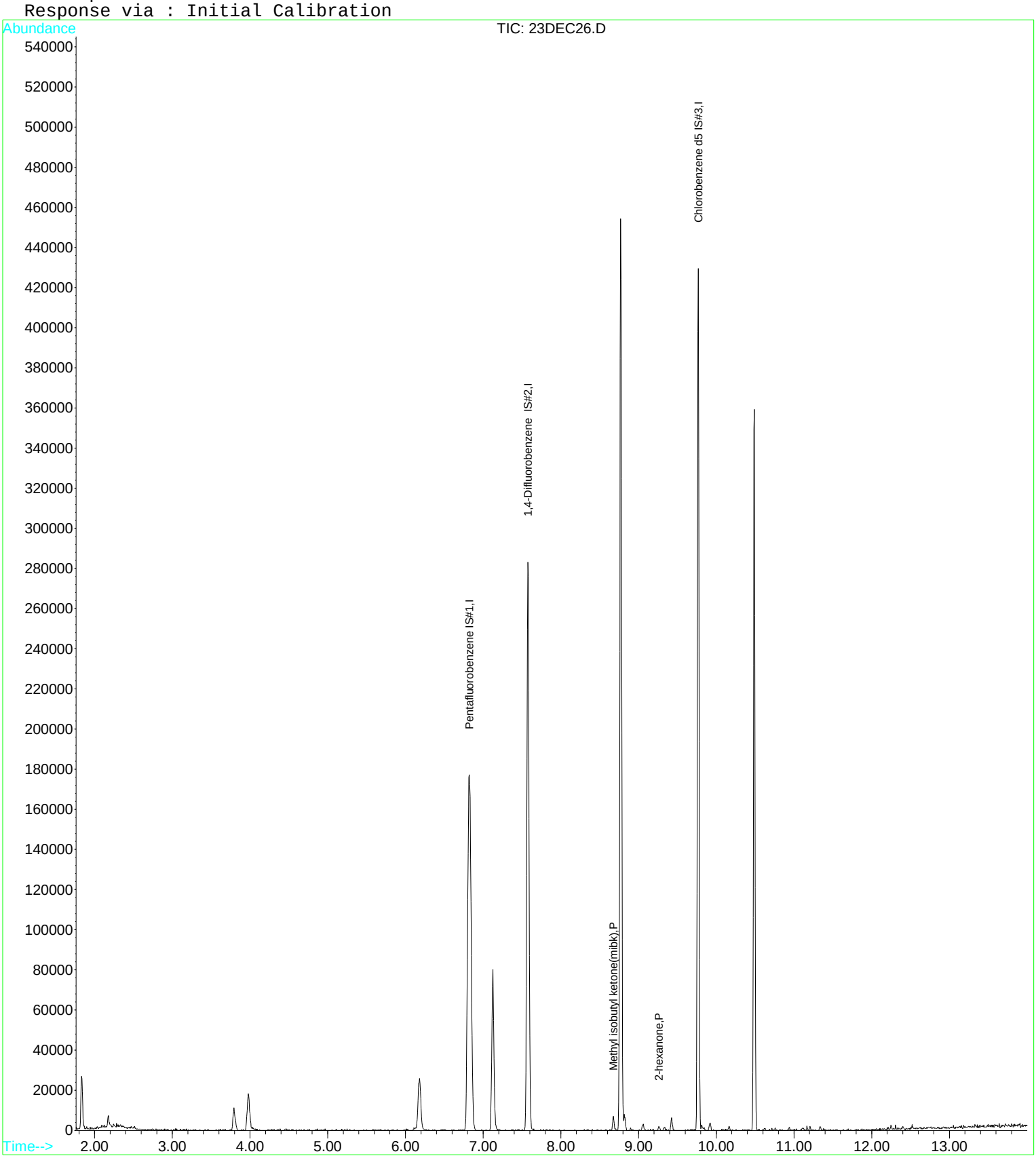
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	32686	10.00	ug/L	0.02
29) 1,4-Difluorobenzene IS#2	7.58	63	49310	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	66719	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.68	43	4688	3.29	ug/L	93
35) 2-hexanone	9.27	43	1288	1.32	ug/L	93

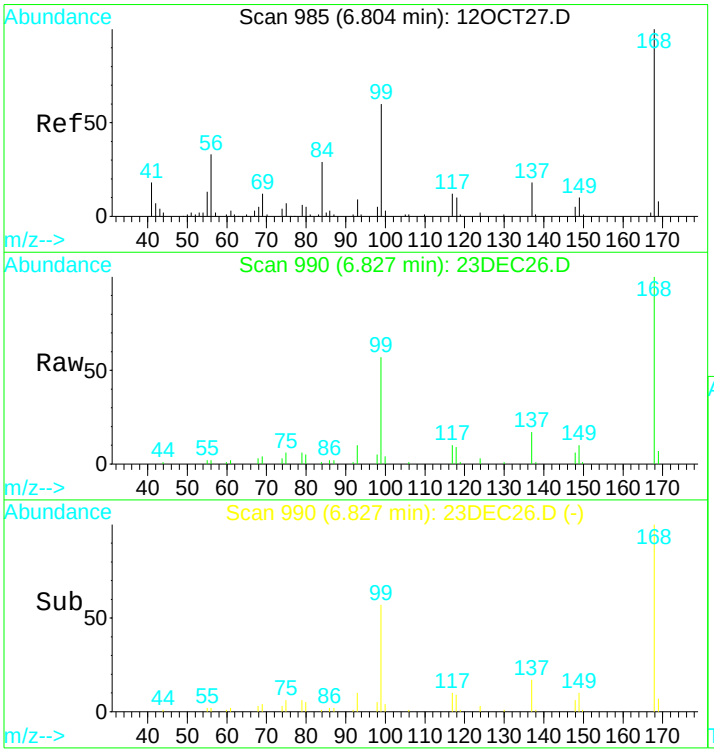
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC26.D Vial: 26
Acq On : 23 Dec 2021 2:46 pm Operator: MGC
Sample : 2139227-02 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:49 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

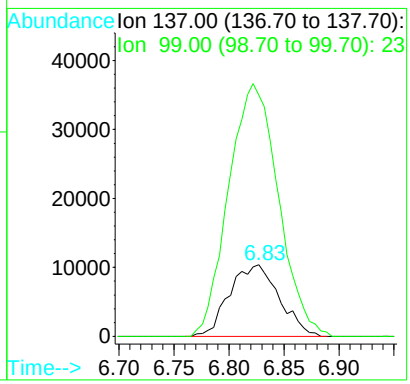


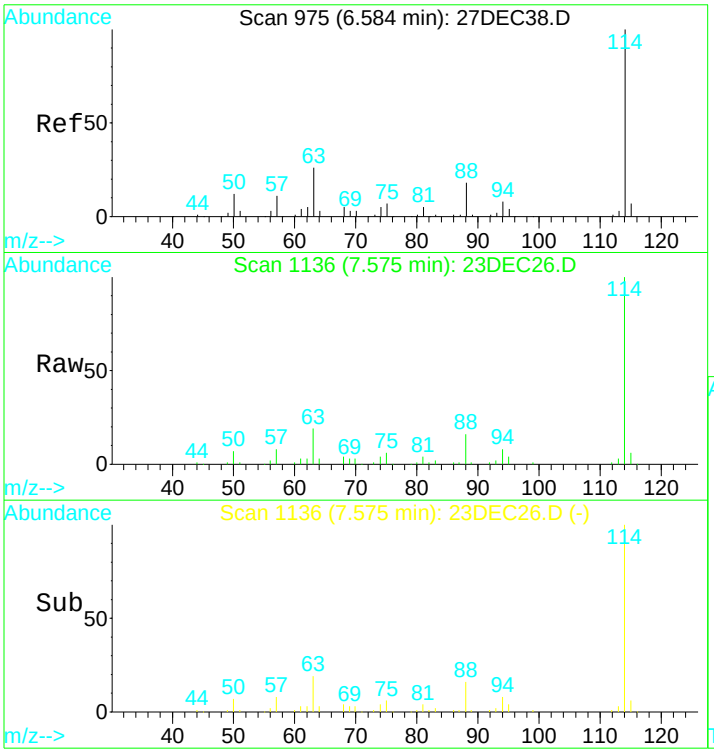


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion:137 Resp: 32686

Ion	Ratio	Lower	Upper
137	100		
99	352.7	245.3	455.5

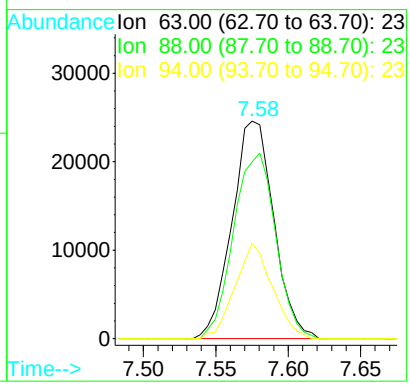


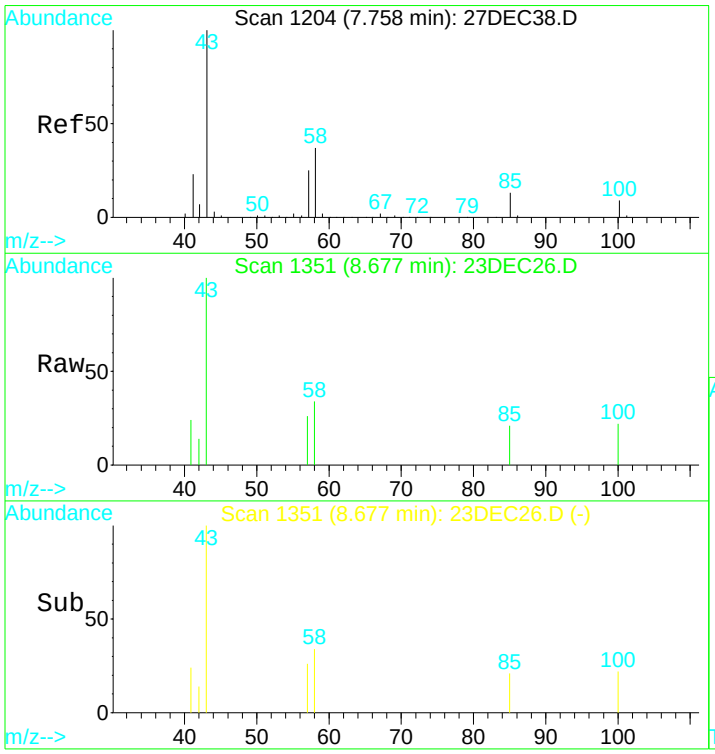


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 63 Resp: 49310

Ion	Ratio	Lower	Upper
63	100		
88	85.9	59.4	110.2
94	39.3	26.3	48.9

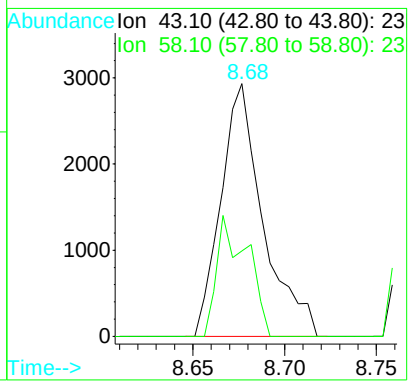


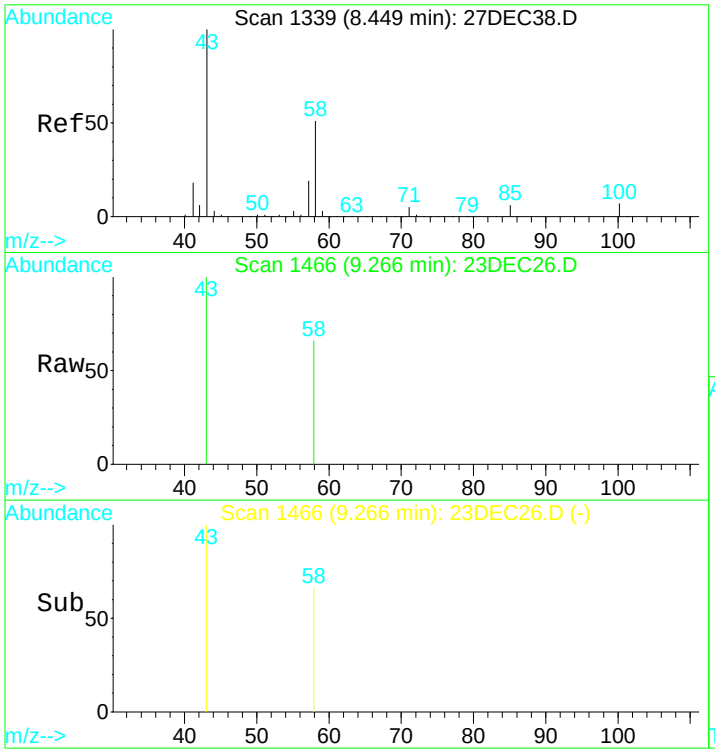


#33
Methyl isobutyl ketone(mibk)
Concen: 3.29 ug/L
RT: 8.68 min Scan# 1351
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 43 Resp: 4688

Ion	Ratio	Lower	Upper
43	100		
58	34.7	27.4	50.8

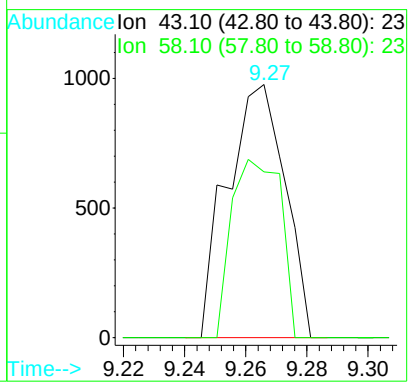


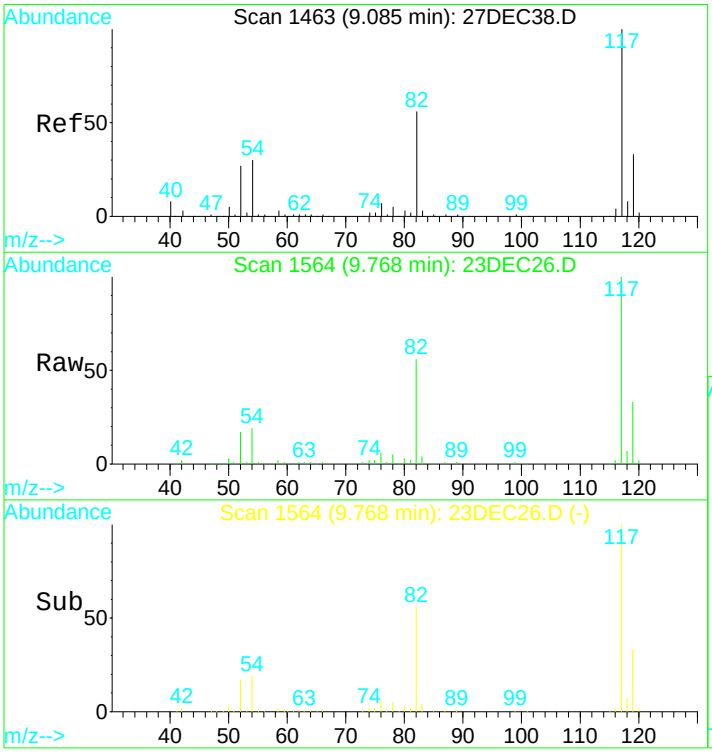


#35
2-hexanone
Concen: 1.32 ug/L
RT: 9.27 min Scan# 1466
Delta R.T. 0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion: 43 Resp: 1288

Ion	Ratio	Lower	Upper
43	100		
58	59.7	38.1	70.9

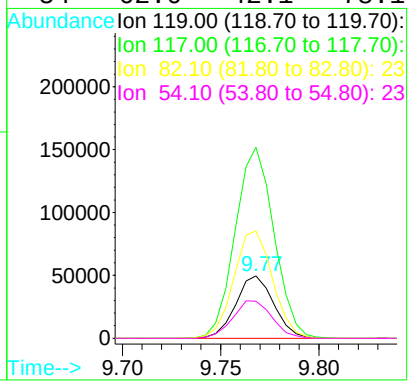




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC26.D
Acq: 23 Dec 2021 2:46 pm

Tgt Ion:119 Resp: 66719

Ion	Ratio	Lower	Upper
119	100		
117	312.2	216.5	402.1
82	175.2	123.3	228.9
54	62.0	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC08.D Vial: 8
Acq On : 23 Dec 2021 7:28 am Operator: MGC
Sample : 2139227-03 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:24 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

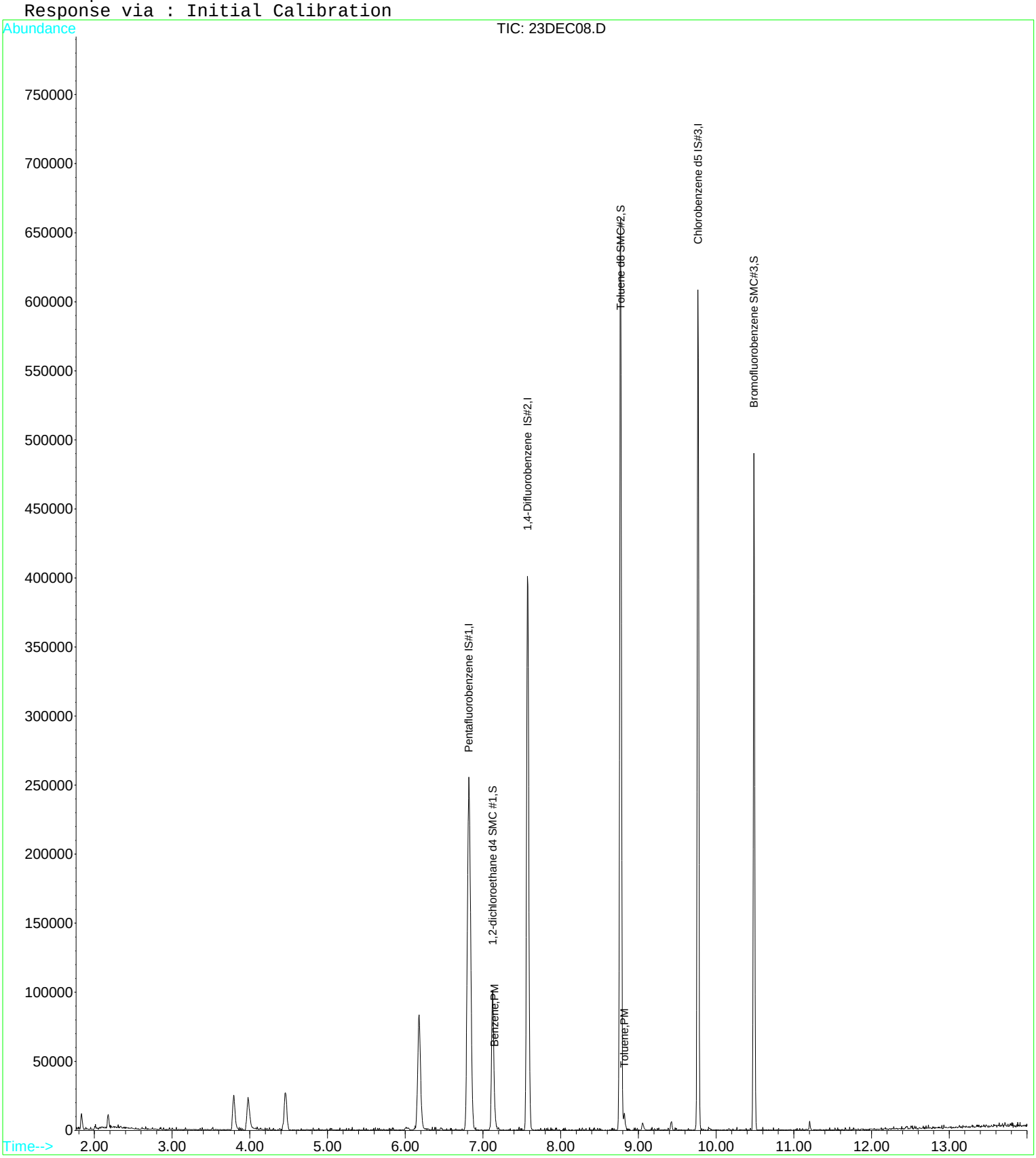
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	44914	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	69266	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	97057	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	74147	8.75	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 87.50%			
33) Toluene d8 SMC#2	8.77	98	422016	10.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.80%			
51) Bromofluorobenzene SMC#3	10.49	95	132495	9.14	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.40%			
Target Compounds						Qvalue
25) Benzene	7.15	78	11491	0.27	ug/L	# 1
34) Toluene	8.82	92	5670	0.20	ug/L	88

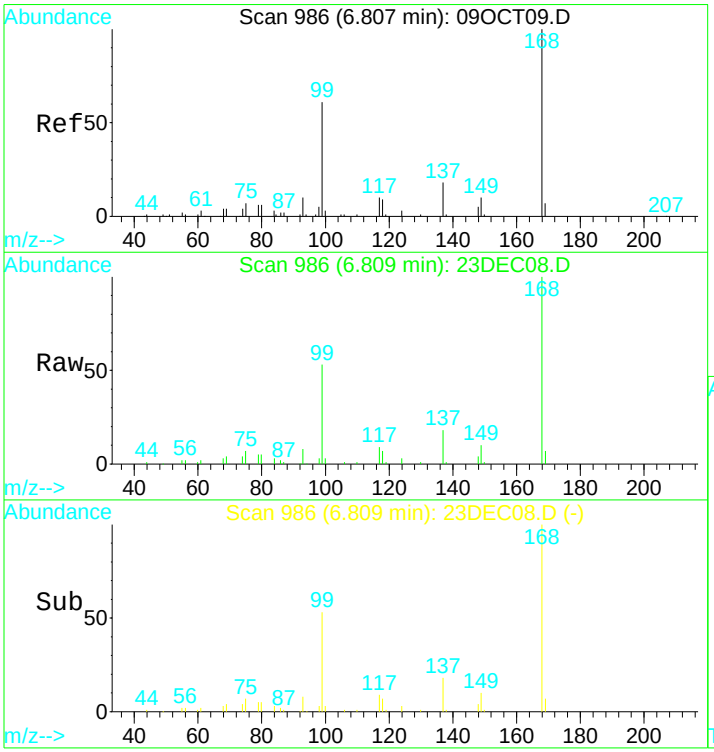
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC08.D Vial: 8
Acq On : 23 Dec 2021 7:28 am Operator: MGC
Sample : 2139227-03 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:24 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

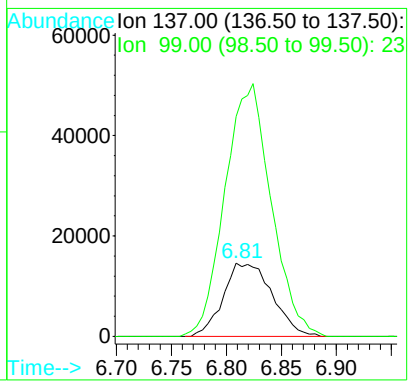


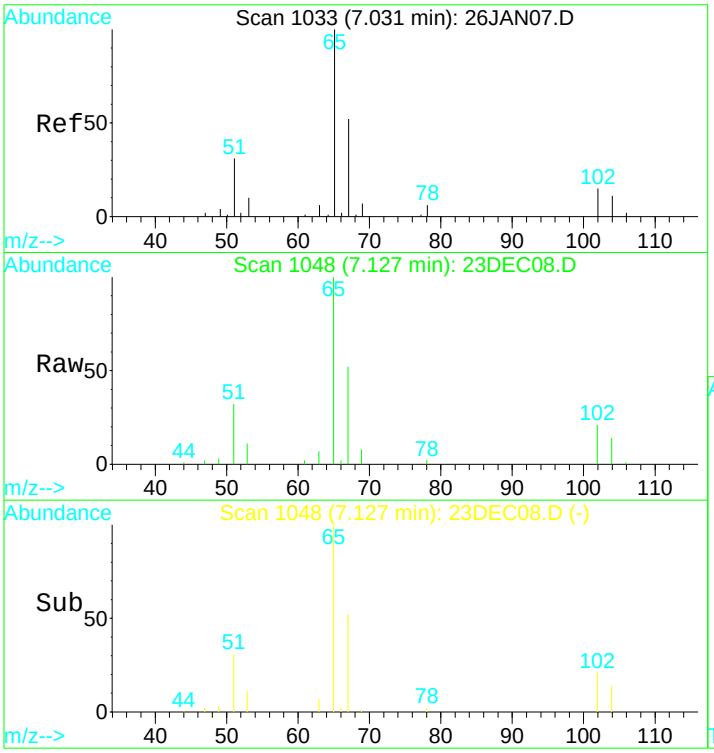


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.81 min Scan# 986
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion:137 Resp: 44914

Ion	Ratio	Lower	Upper
137	100		
99	326.9	1431.5	2658.5#

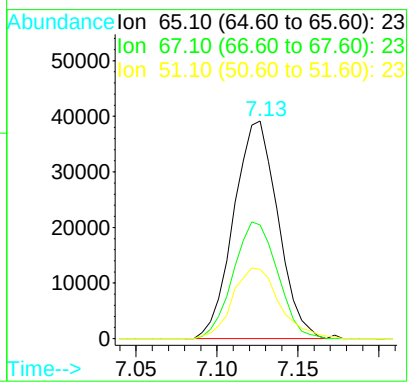


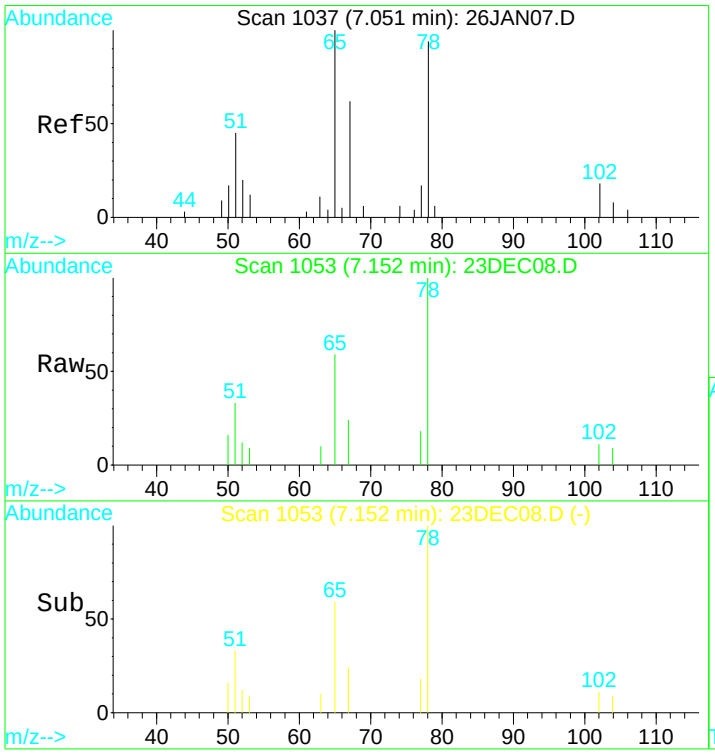


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 65 Resp: 74147

Ion	Ratio	Lower	Upper
65	100		
67	53.6	33.0	61.4
51	34.6	302.3	561.3#

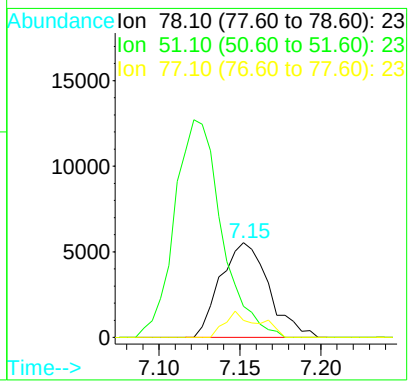


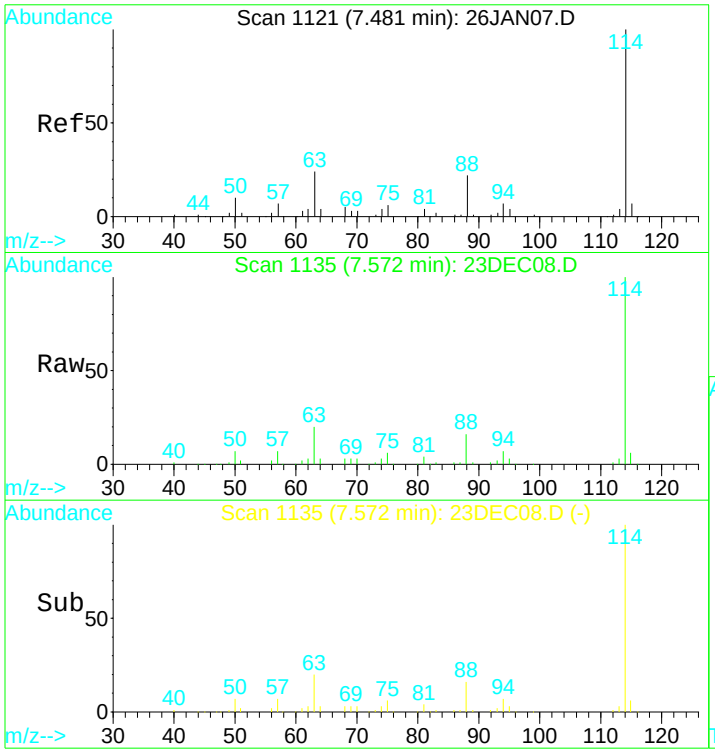


#25
Benzene
Concen: 0.27 ug/L
RT: 7.15 min Scan# 1053
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 78 Resp: 11491

Ion	Ratio	Lower	Upper
78	100		
51	223.5	12.7	23.5#
77	19.2	17.6	32.8

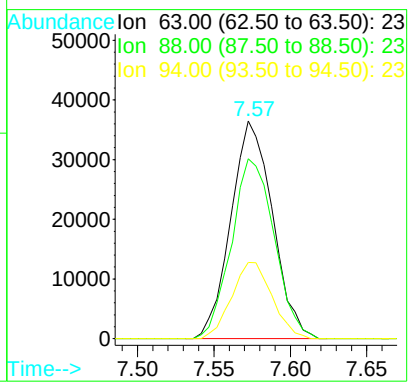


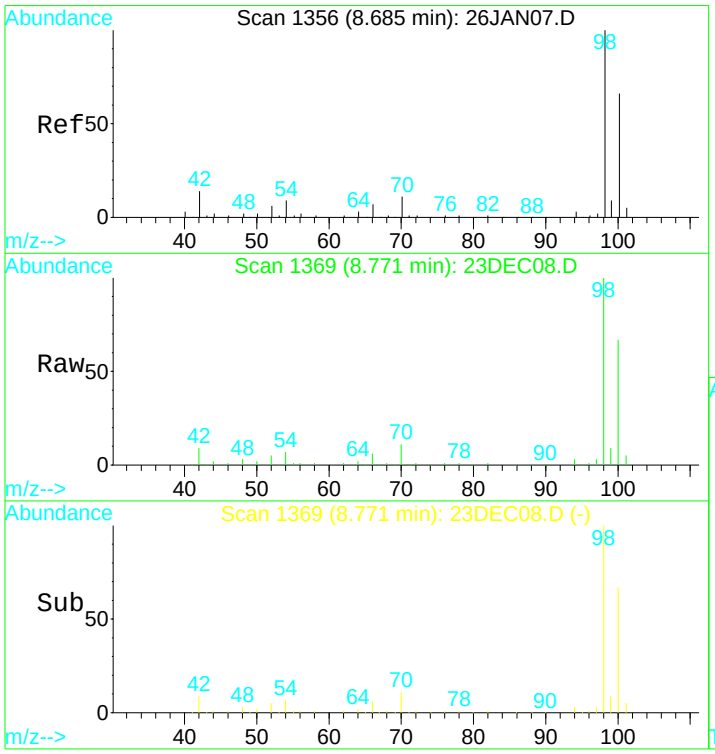


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 63 Resp: 69266

Ion	Ratio	Lower	Upper
63	100		
88	84.7	57.7	107.3
94	33.8	25.6	47.4

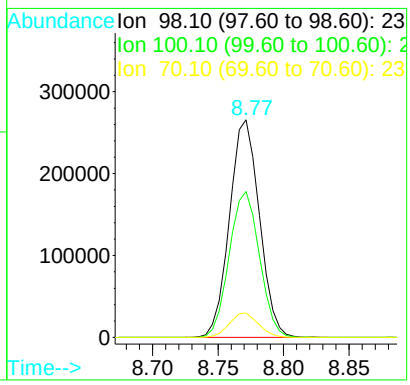


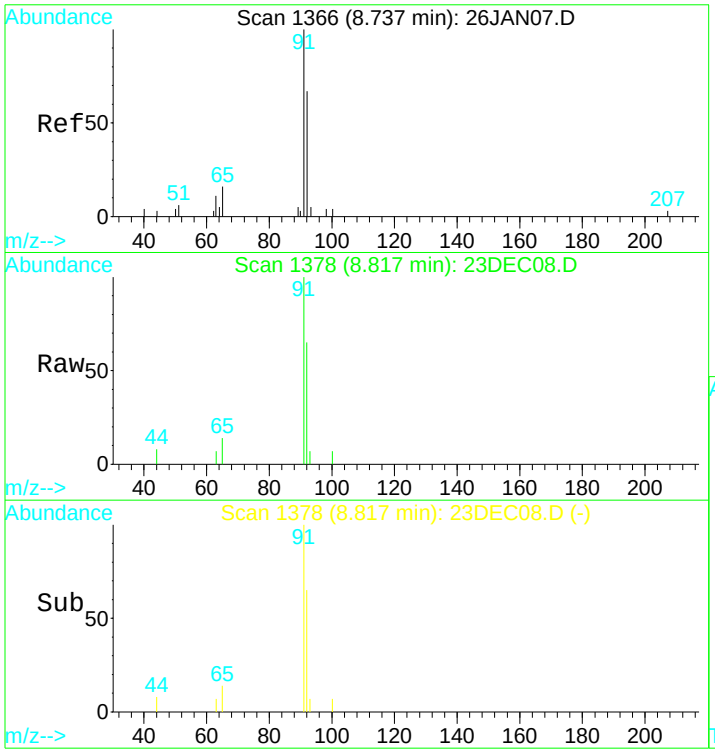


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 98 Resp: 422016

Ion	Ratio	Lower	Upper
98	100		
100	67.6	46.0	85.4
70	11.0	8.2	15.2

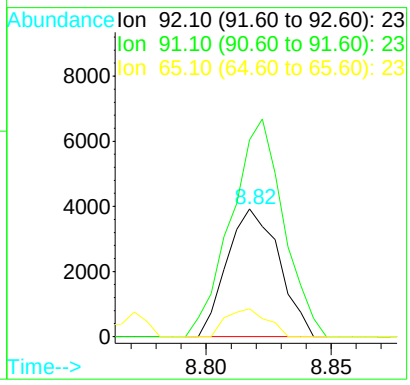


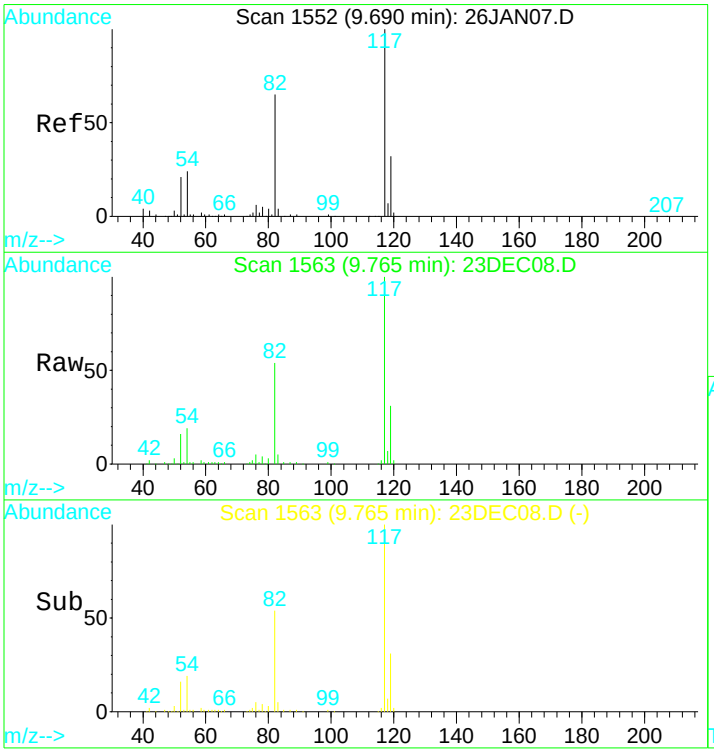


#34
Toluene
Concen: 0.20 ug/L
RT: 8.82 min Scan# 1378
Delta R.T. -0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 92 Resp: 5670

Ion	Ratio	Lower	Upper
92	100		
91	171.8	108.6	201.8
65	17.2	14.8	27.4

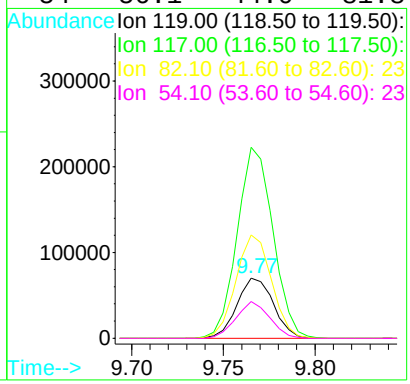


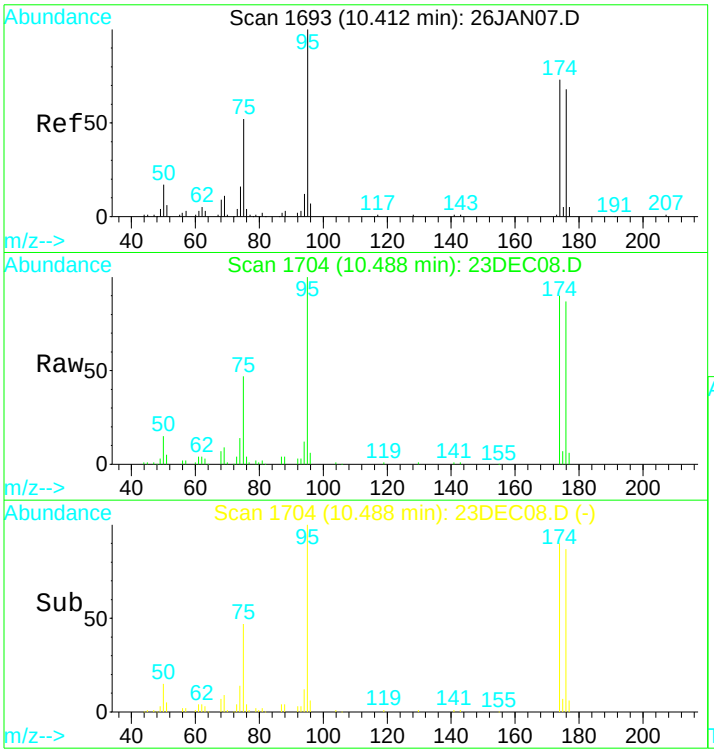


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion:119 Resp: 97057

Ion	Ratio	Lower	Upper
119	100		
117	311.0	215.8	400.8
82	167.3	123.7	229.7
54	56.1	44.0	81.8

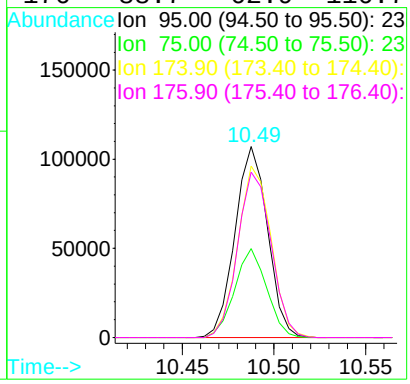




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 95 Resp: 132495

Ion	Ratio	Lower	Upper
95	100		
75	45.6	35.4	65.8
174	91.4	63.8	118.4
176	88.7	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC08.D Vial: 8
Acq On : 23 Dec 2021 7:28 am Operator: MGC
Sample : 2139227-03 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:25 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	44914	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	69266	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	97057	10.00	ug/L	0.00

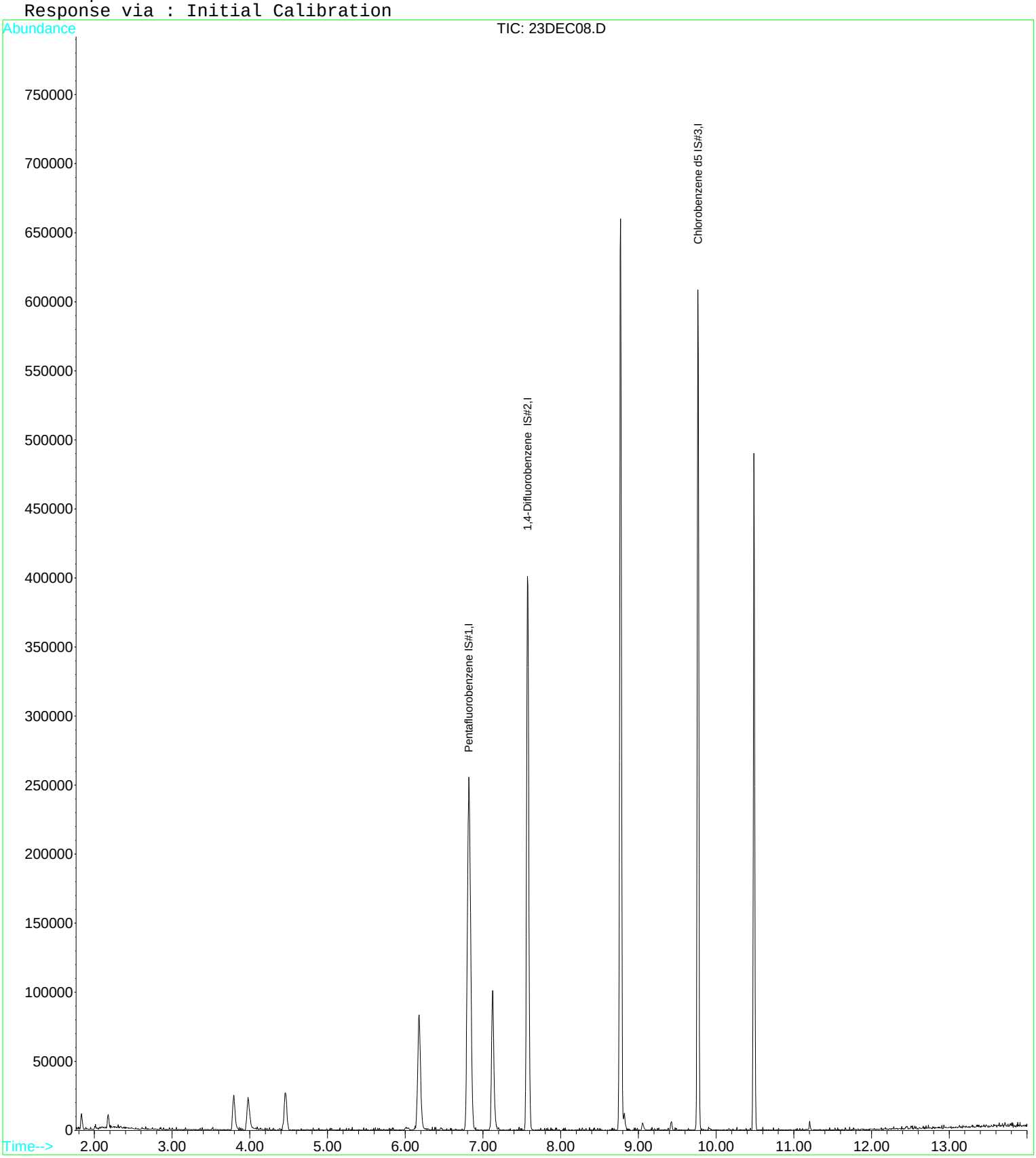
Target Compounds Qvalue

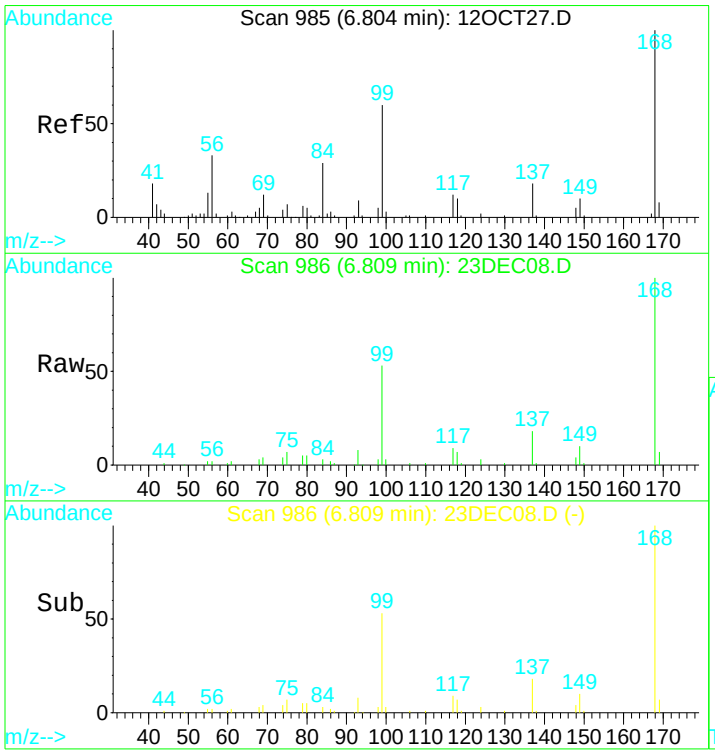
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC08.D Vial: 8
Acq On : 23 Dec 2021 7:28 am Operator: MGC
Sample : 2139227-03 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:25 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

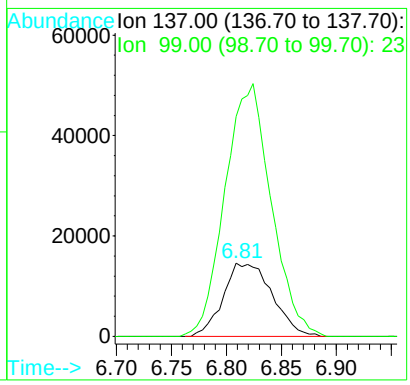


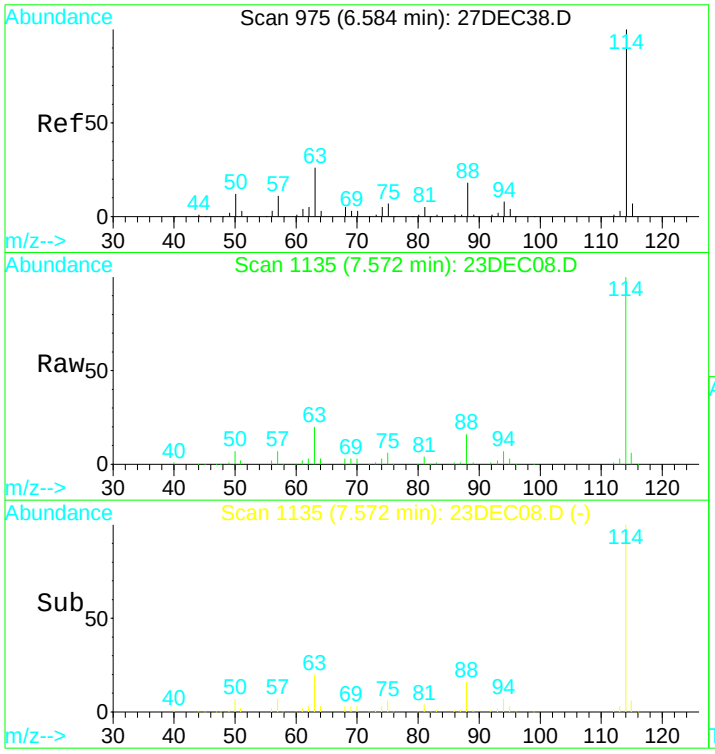


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.81 min Scan# 986
Delta R.T. -0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion:137 Resp: 44914

Ion	Ratio	Lower	Upper
137	100		
99	326.9	245.3	455.5

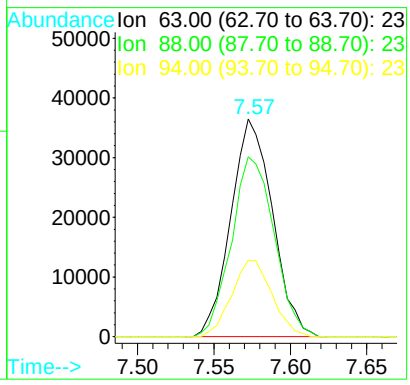


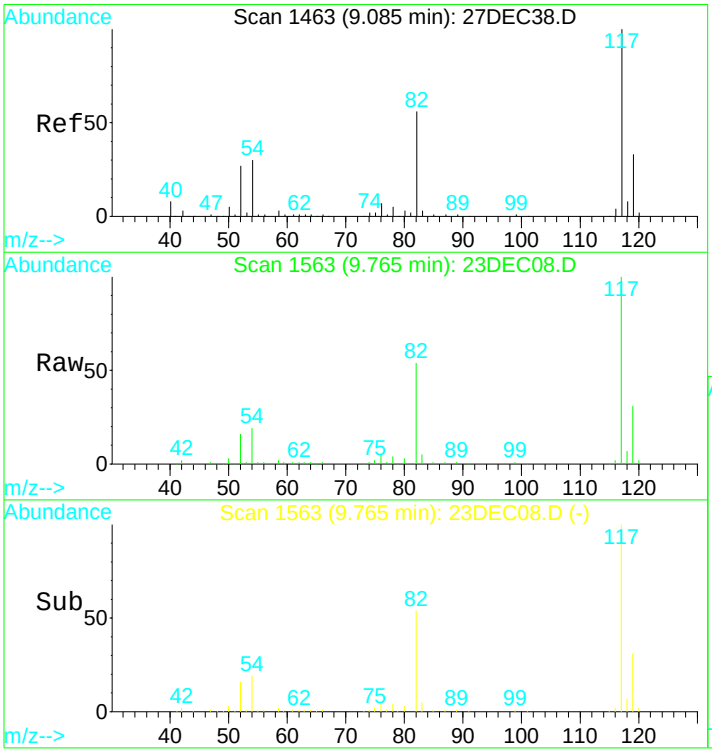


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion: 63 Resp: 69266

Ion	Ratio	Lower	Upper
63	100		
88	84.7	59.4	110.2
94	33.8	26.3	48.9

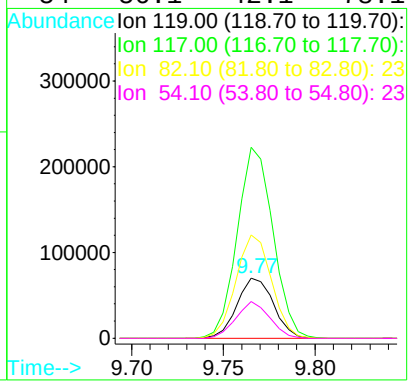




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC08.D
Acq: 23 Dec 2021 7:28 am

Tgt Ion:119 Resp: 97057

Ion	Ratio	Lower	Upper
119	100		
117	311.0	216.5	402.1
82	167.3	123.3	228.9
54	56.1	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC09.D Vial: 9
Acq On : 23 Dec 2021 7:52 am Operator: MGC
Sample : 2139227-04 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:26 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

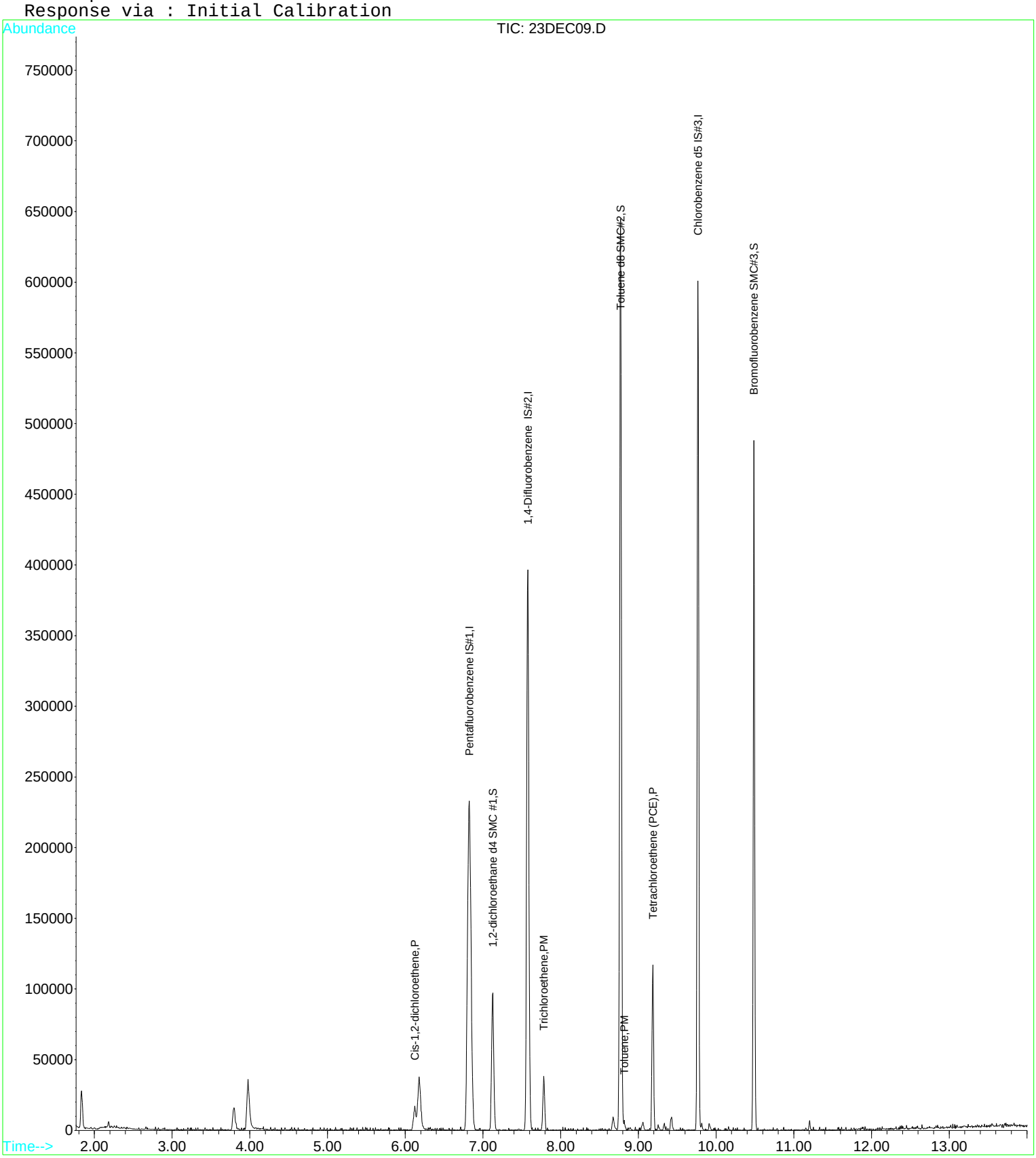
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	44675	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.58	63	70111	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	96249	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	73248	8.69	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 86.90%			
33) Toluene d8 SMC#2	8.77	98	421313	10.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.30%			
51) Bromofluorobenzene SMC#3	10.49	95	131177	9.13	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.30%			
Target Compounds						Qvalue
17) Cis-1,2-dichloroethene	6.12	96	10175	0.83	ug/L	84
27) Trichloroethene	7.78	130	12869	0.98	ug/L	96
34) Toluene	8.82	92	2880	0.10	ug/L #	94
37) Tetrachloroethene (PCE)	9.19	166	30353	2.11	ug/L	96

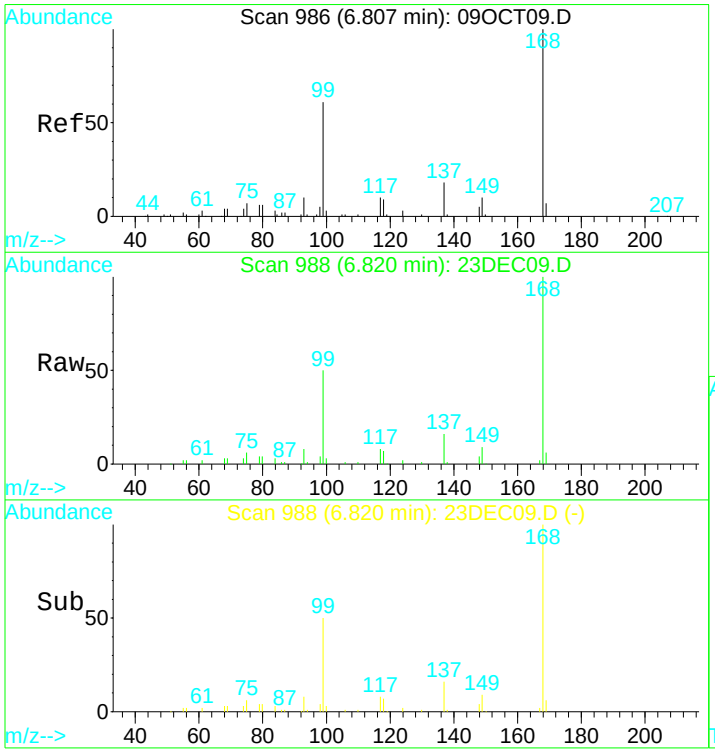
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC09.D Vial: 9
Acq On : 23 Dec 2021 7:52 am Operator: MGC
Sample : 2139227-04 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:26 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

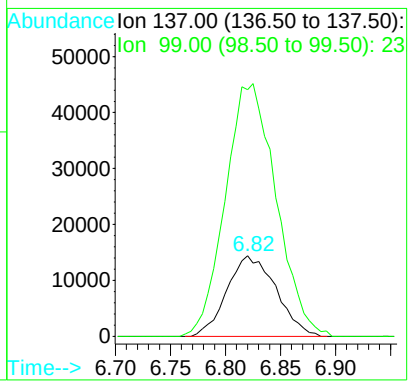


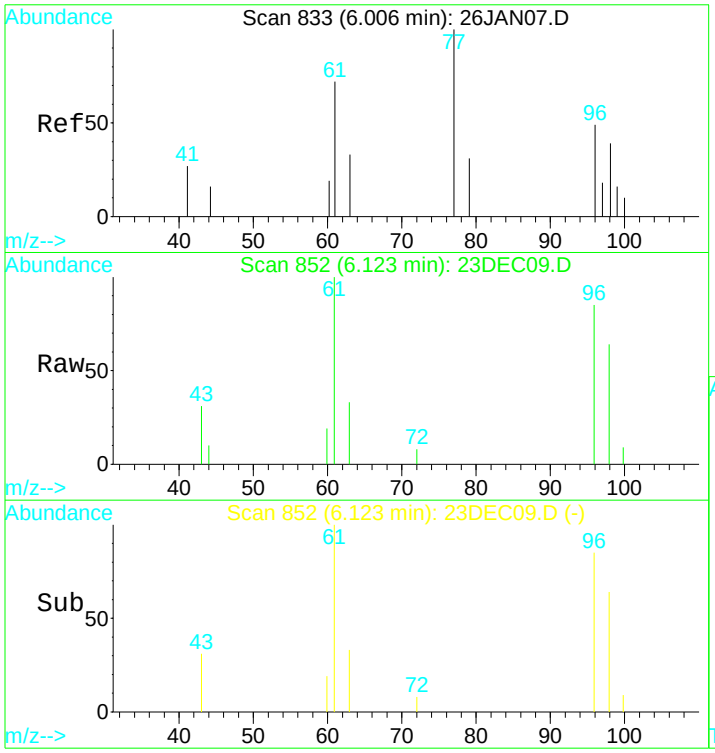


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 988
Delta R.T. 0.01 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:137 Resp: 44675

Ion	Ratio	Lower	Upper
137	100		
99	324.0	1431.5	2658.5#

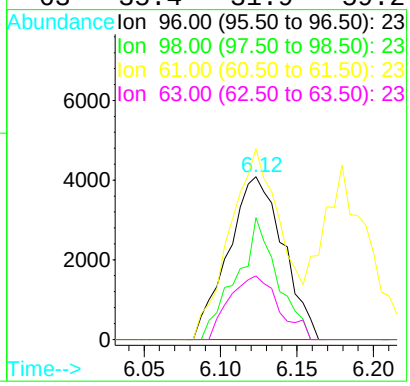


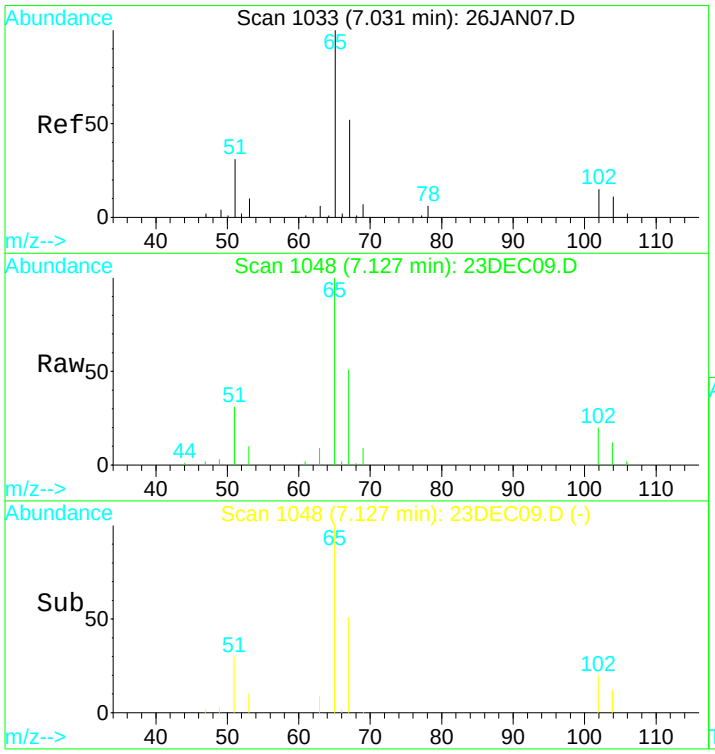


#17
Cis-1,2-dichloroethene
Concen: 0.83 ug/L
RT: 6.12 min Scan# 852
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 96 Resp: 10175

Ion	Ratio	Lower	Upper
96	100		
98	55.9	45.6	84.8
61	111.3	92.7	172.3
63	35.4	31.9	59.2

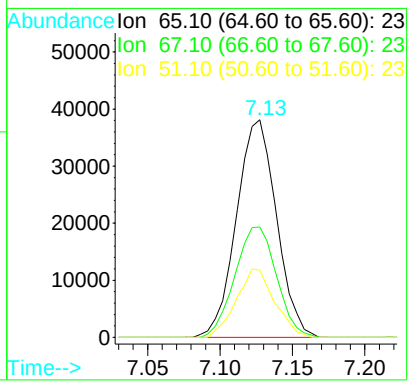


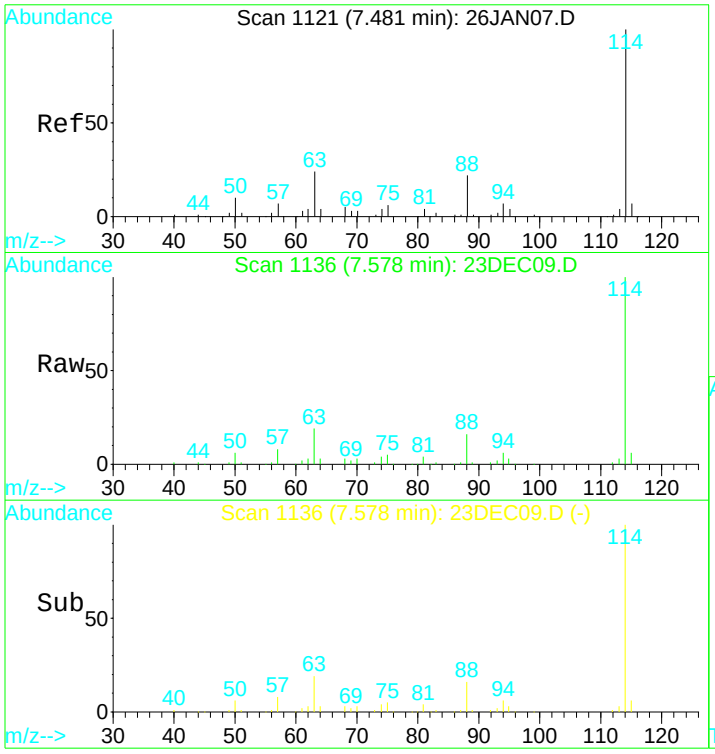


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 65 Resp: 73248

Ion	Ratio	Lower	Upper
65	100		
67	52.7	33.0	61.4
51	30.1	302.3	561.3#

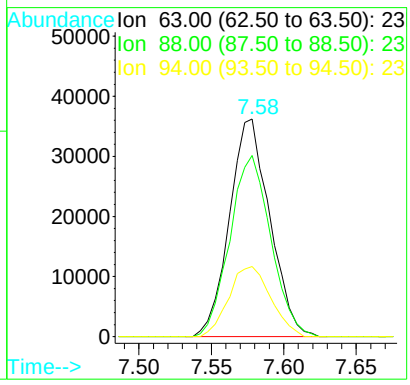


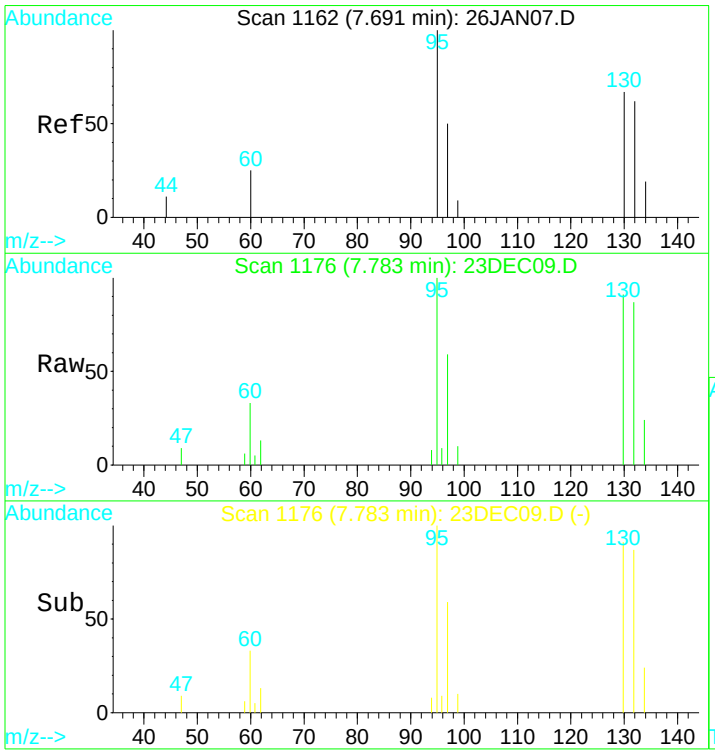


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 63 Resp: 70111

Ion	Ratio	Lower	Upper
63	100		
88	84.4	57.7	107.3
94	33.6	25.6	47.4

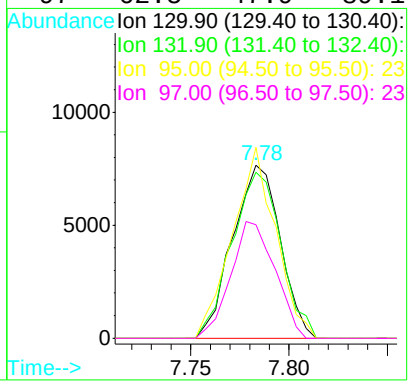


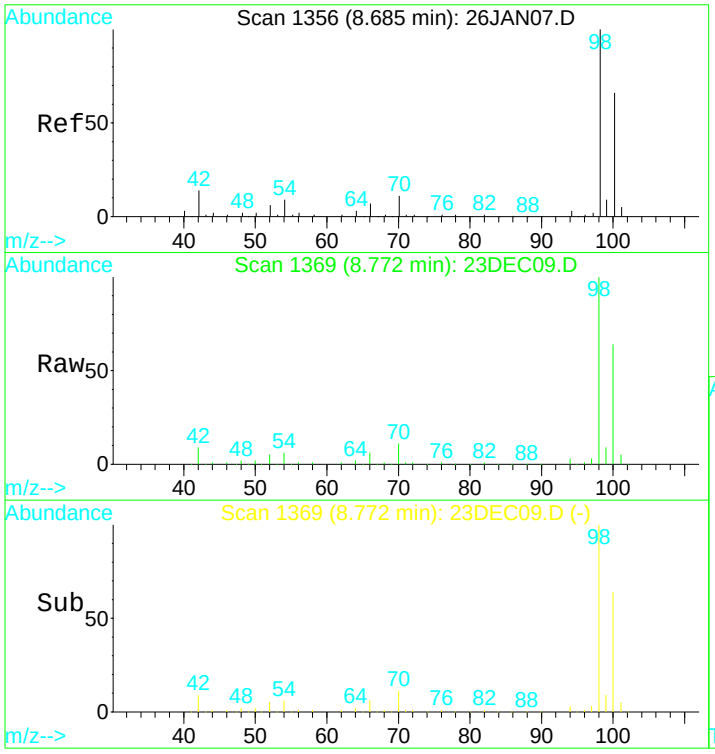


#27
Trichloroethene
Concen: 0.98 ug/L
RT: 7.78 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:130 Resp: 12869

Ion	Ratio	Lower	Upper
130	100		
132	99.1	67.5	125.4
95	100.0	72.9	135.3
97	62.5	47.9	89.1

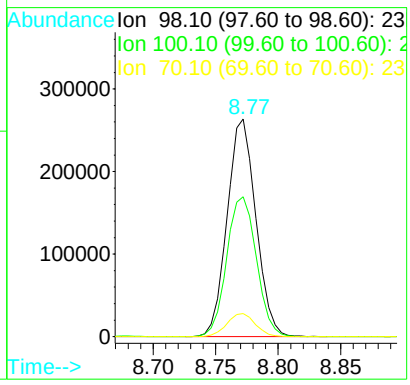


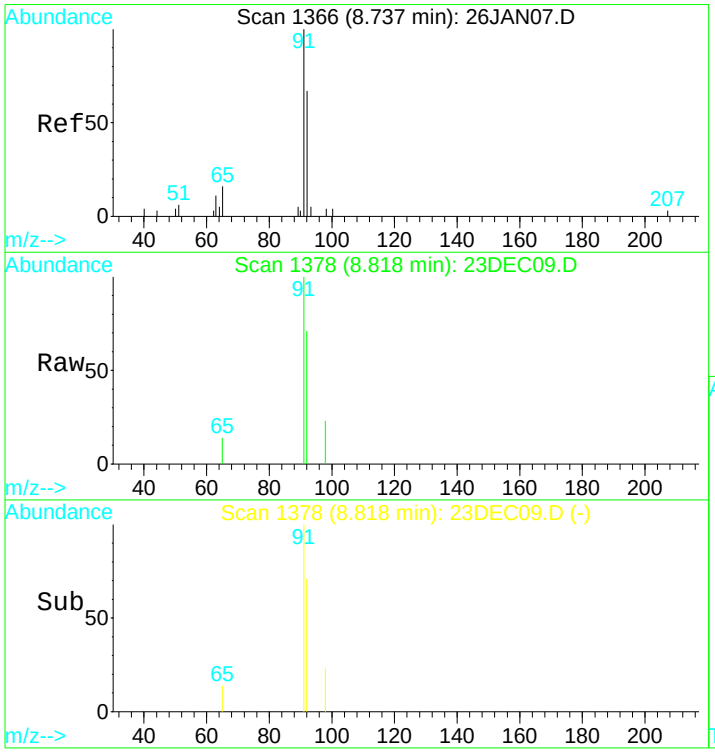


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 98 Resp: 421313

Ion	Ratio	Lower	Upper
98	100		
100	66.3	46.0	85.4
70	10.5	8.2	15.2

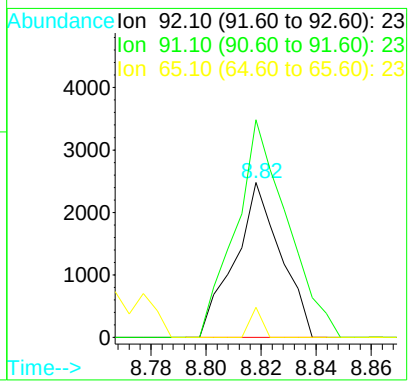


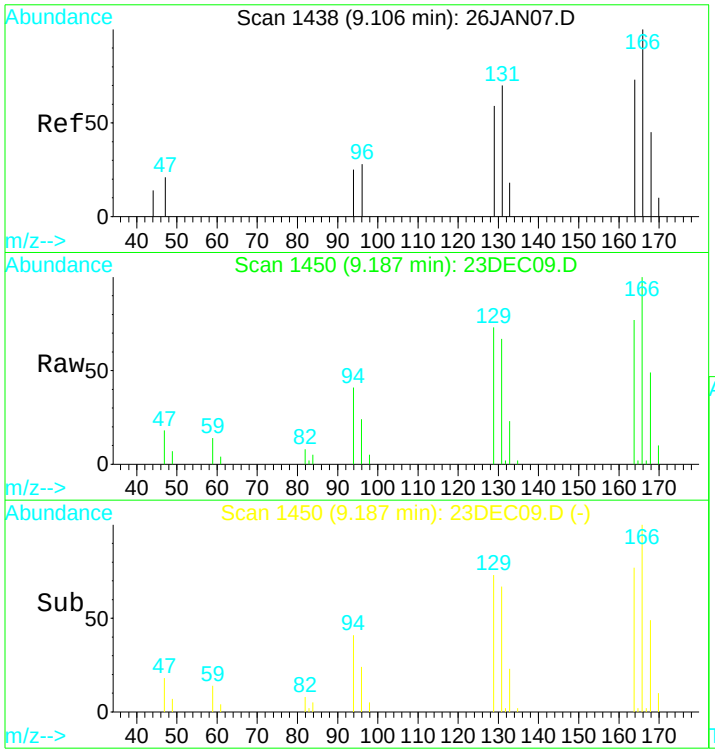


#34
Toluene
Concen: 0.10 ug/L
RT: 8.82 min Scan# 1378
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 92 Resp: 2880

Ion	Ratio	Lower	Upper
92	100		
91	157.9	108.6	201.8
65	5.1	14.8	27.4#

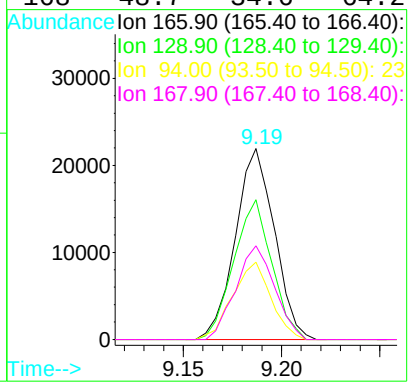


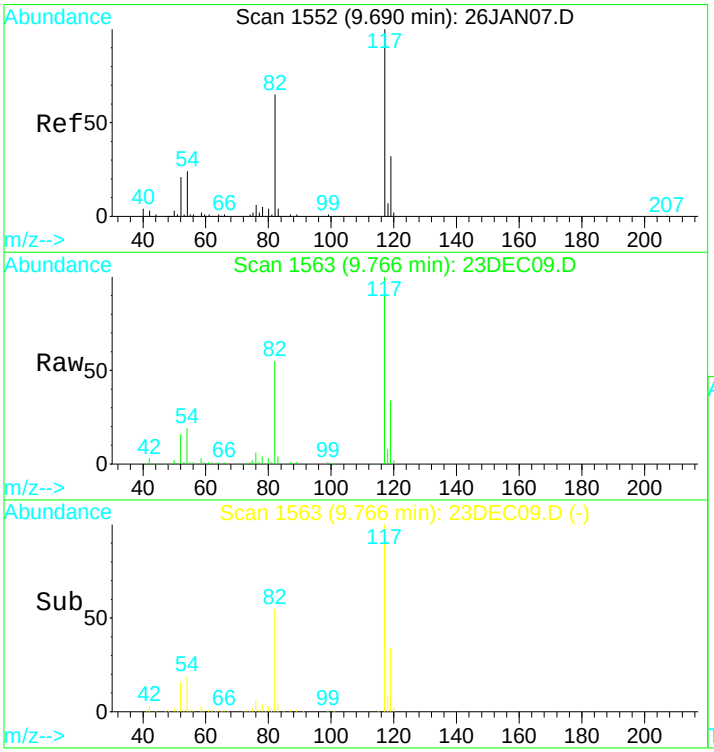


#37
Tetrachloroethene (PCE)
Concen: 2.11 ug/L
RT: 9.19 min Scan# 1450
Delta R.T. 0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:166 Resp: 30353

Ion	Ratio	Lower	Upper
166	100		
129	71.2	48.4	89.8
94	39.7	32.1	59.7
168	48.7	34.6	64.2

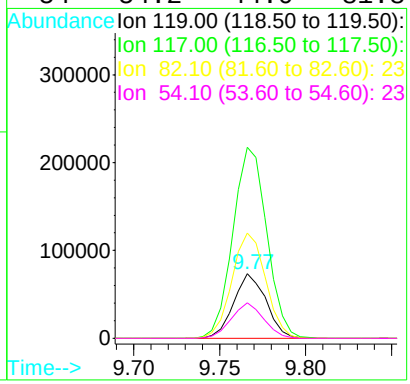


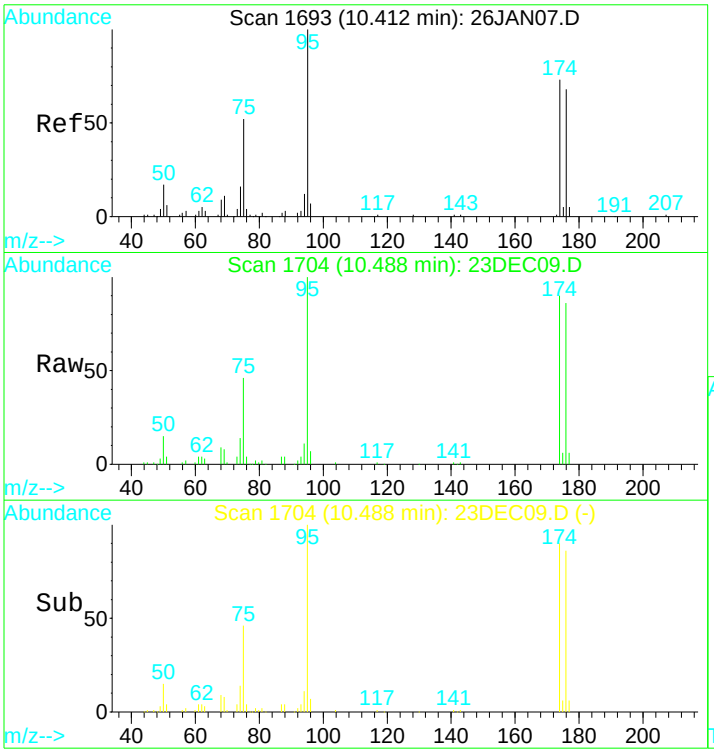


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:119 Resp: 96249

Ion	Ratio	Lower	Upper
119	100		
117	309.0	215.8	400.8
82	168.8	123.7	229.7
54	54.2	44.0	81.8

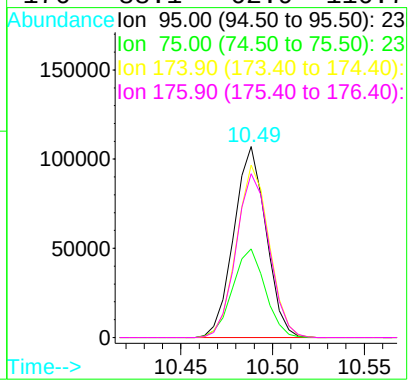




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 95 Resp: 131177

Ion	Ratio	Lower	Upper
95	100		
75	47.0	35.4	65.8
174	91.2	63.8	118.4
176	88.1	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC09.D Vial: 9
Acq On : 23 Dec 2021 7:52 am Operator: MGC
Sample : 2139227-04 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:27 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

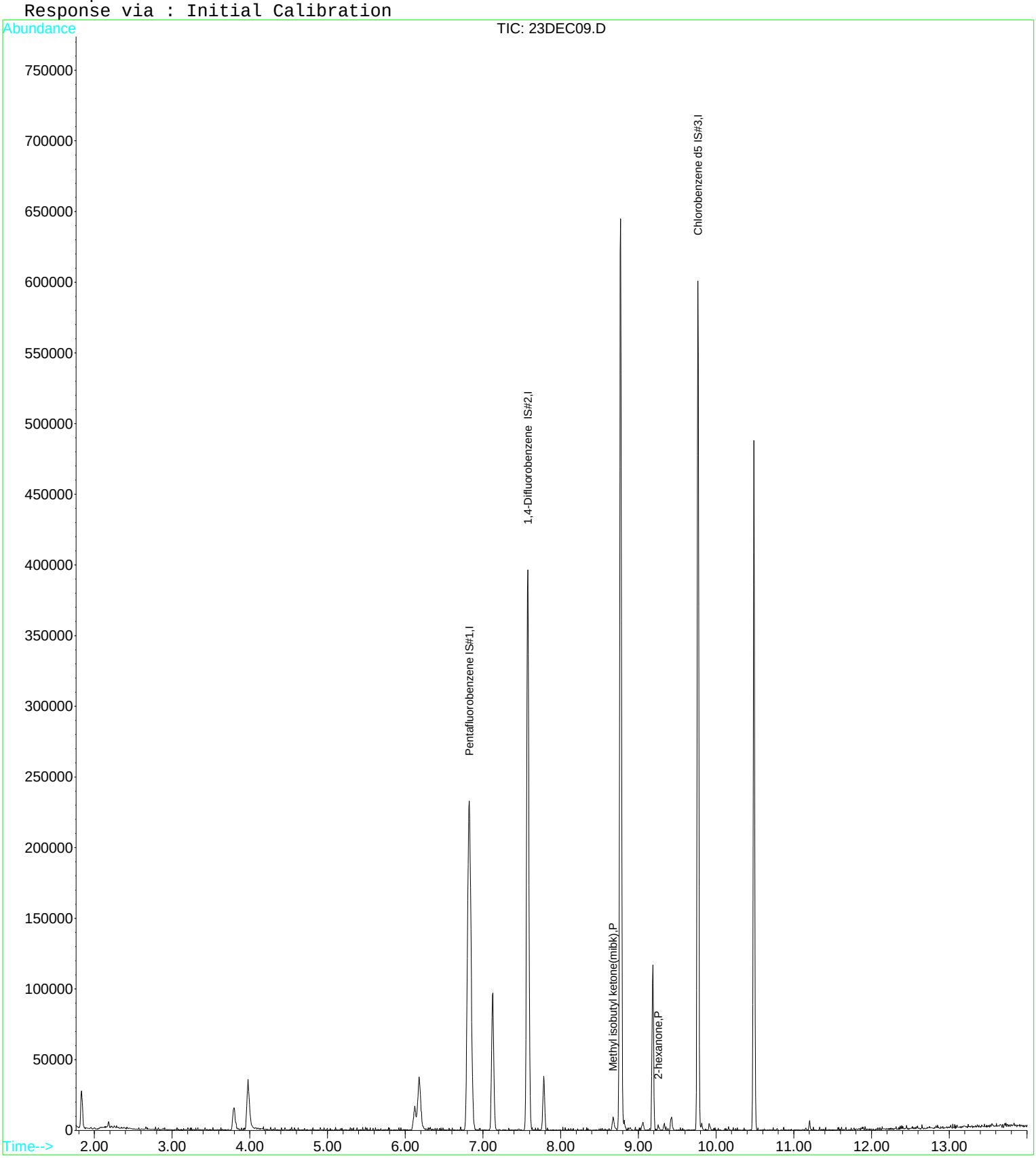
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	44675	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	70111	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	96249	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	7098	3.50	ug/L	99
35) 2-hexanone	9.26	43	1895	1.37	ug/L	90

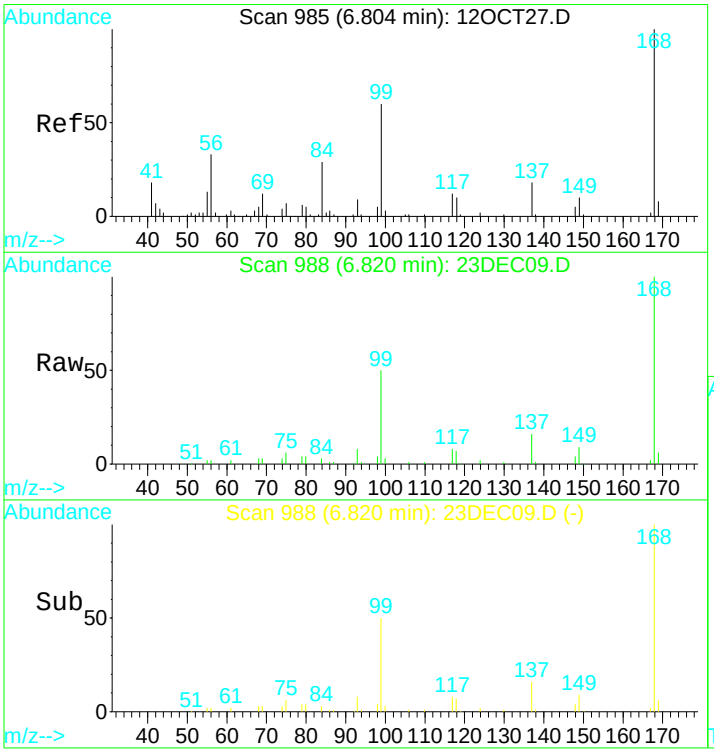
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC09.D Vial: 9
Acq On : 23 Dec 2021 7:52 am Operator: MGC
Sample : 2139227-04 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:27 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

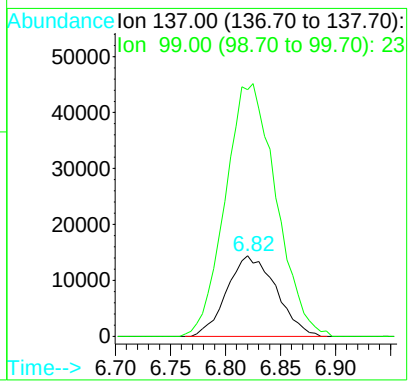


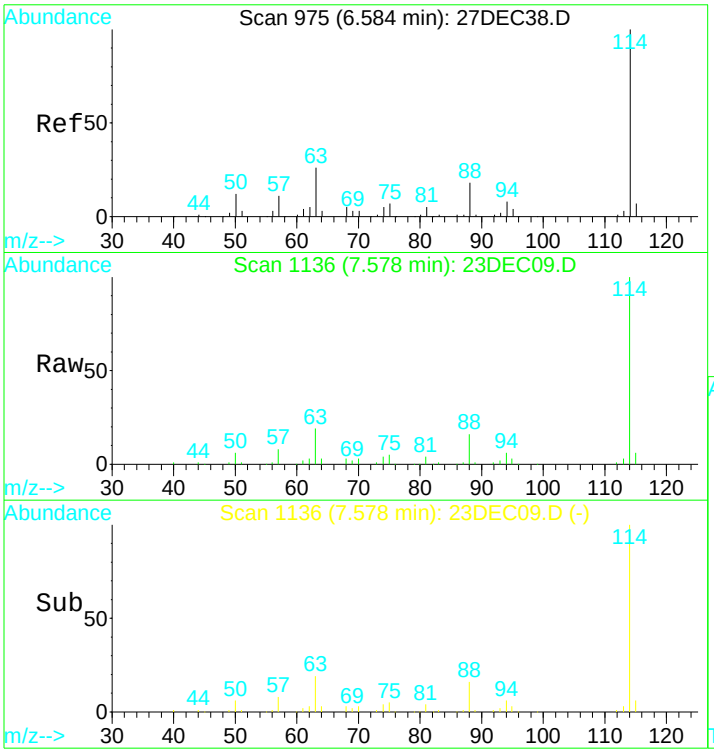


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 988
Delta R.T. 0.01 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:137 Resp: 44675

Ion	Ratio	Lower	Upper
137	100		
99	324.0	245.3	455.5

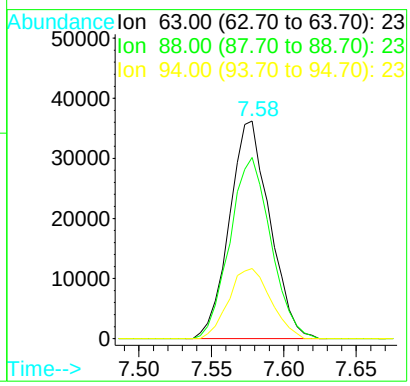


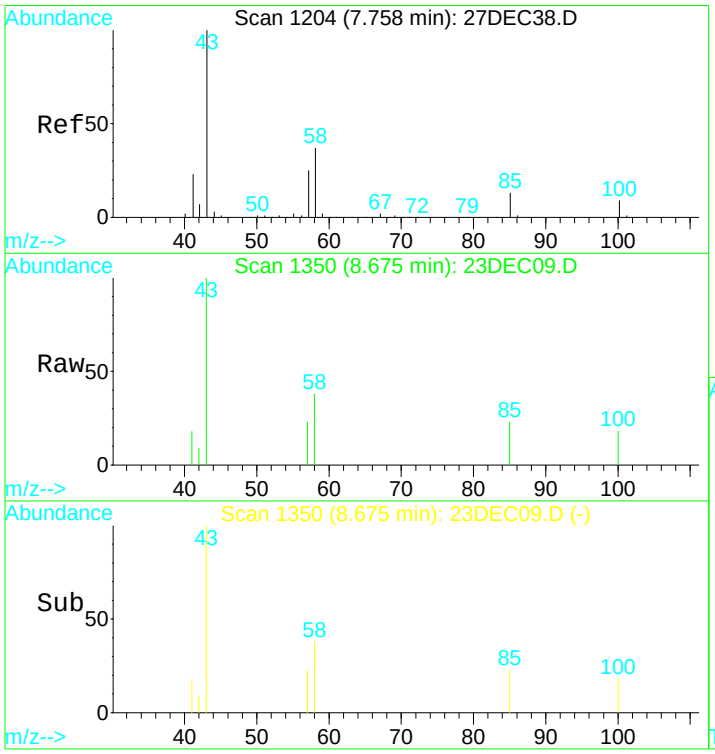


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 63 Resp: 70111

Ion	Ratio	Lower	Upper
63	100		
88	84.4	59.4	110.2
94	33.6	26.3	48.9

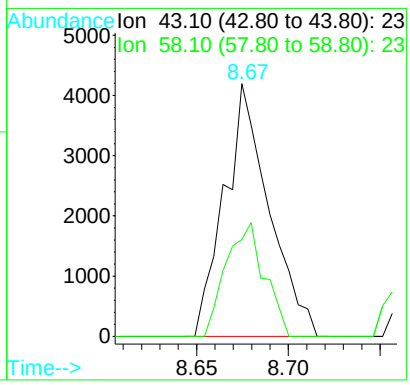


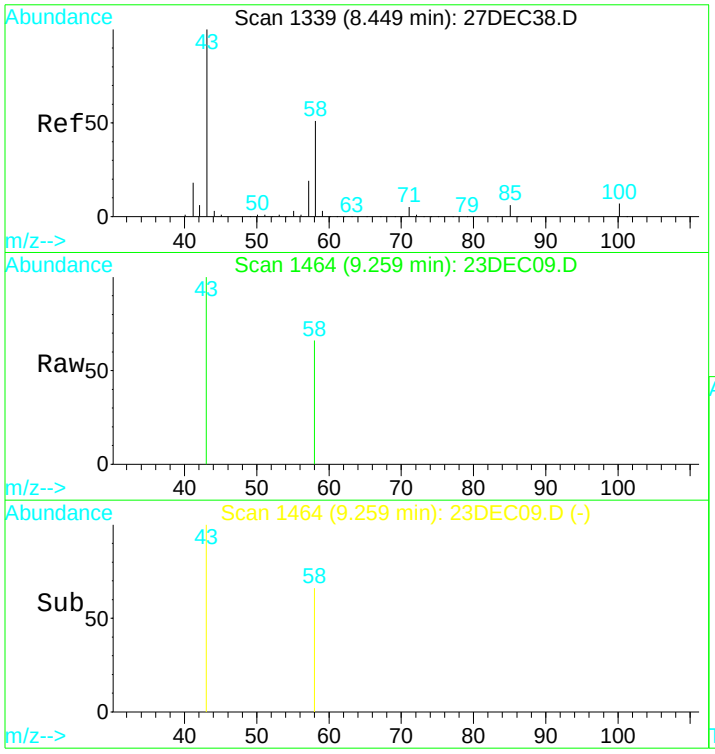


#33
Methyl isobutyl ketone(mibk)
Concen: 3.50 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 43 Resp: 7098

Ion	Ratio	Lower	Upper
43	100		
58	38.7	27.4	50.8

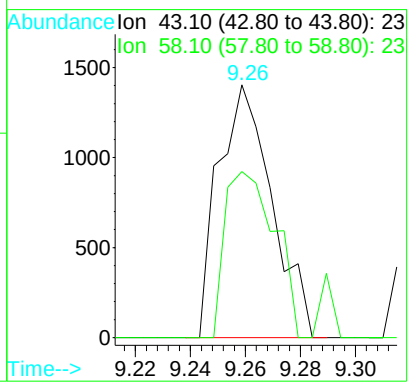


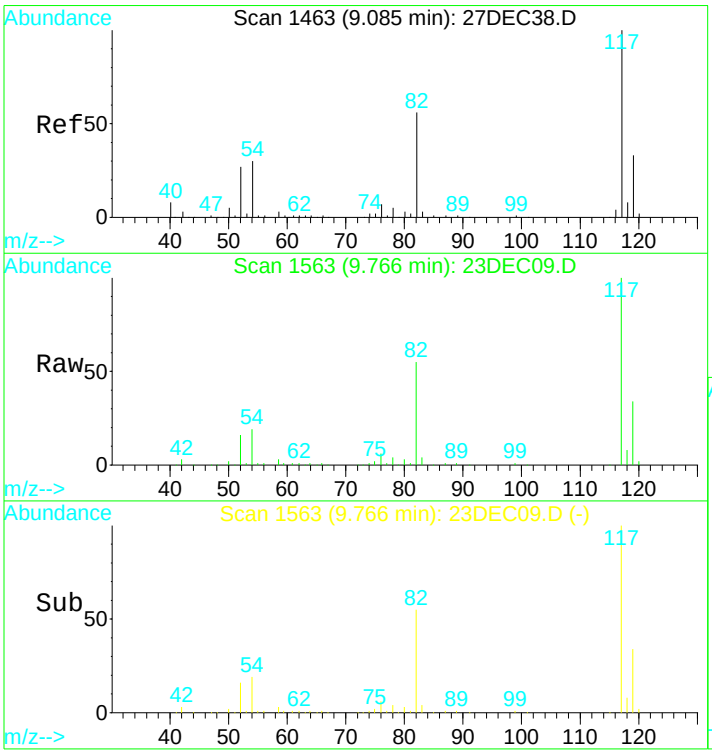


#35
2-hexanone
Concen: 1.37 ug/L
RT: 9.26 min Scan# 1464
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion: 43 Resp: 1895

Ion	Ratio	Lower	Upper
43	100		
58	61.6	38.1	70.9

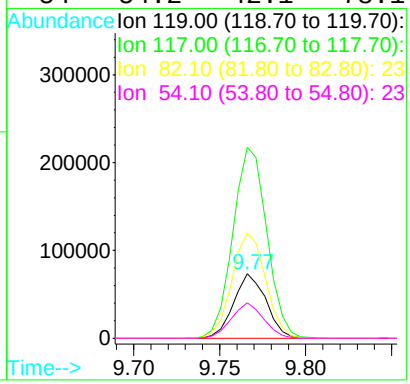




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC09.D
Acq: 23 Dec 2021 7:52 am

Tgt Ion:119 Resp: 96249

Ion	Ratio	Lower	Upper
119	100		
117	309.0	216.5	402.1
82	168.8	123.3	228.9
54	54.2	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:56 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

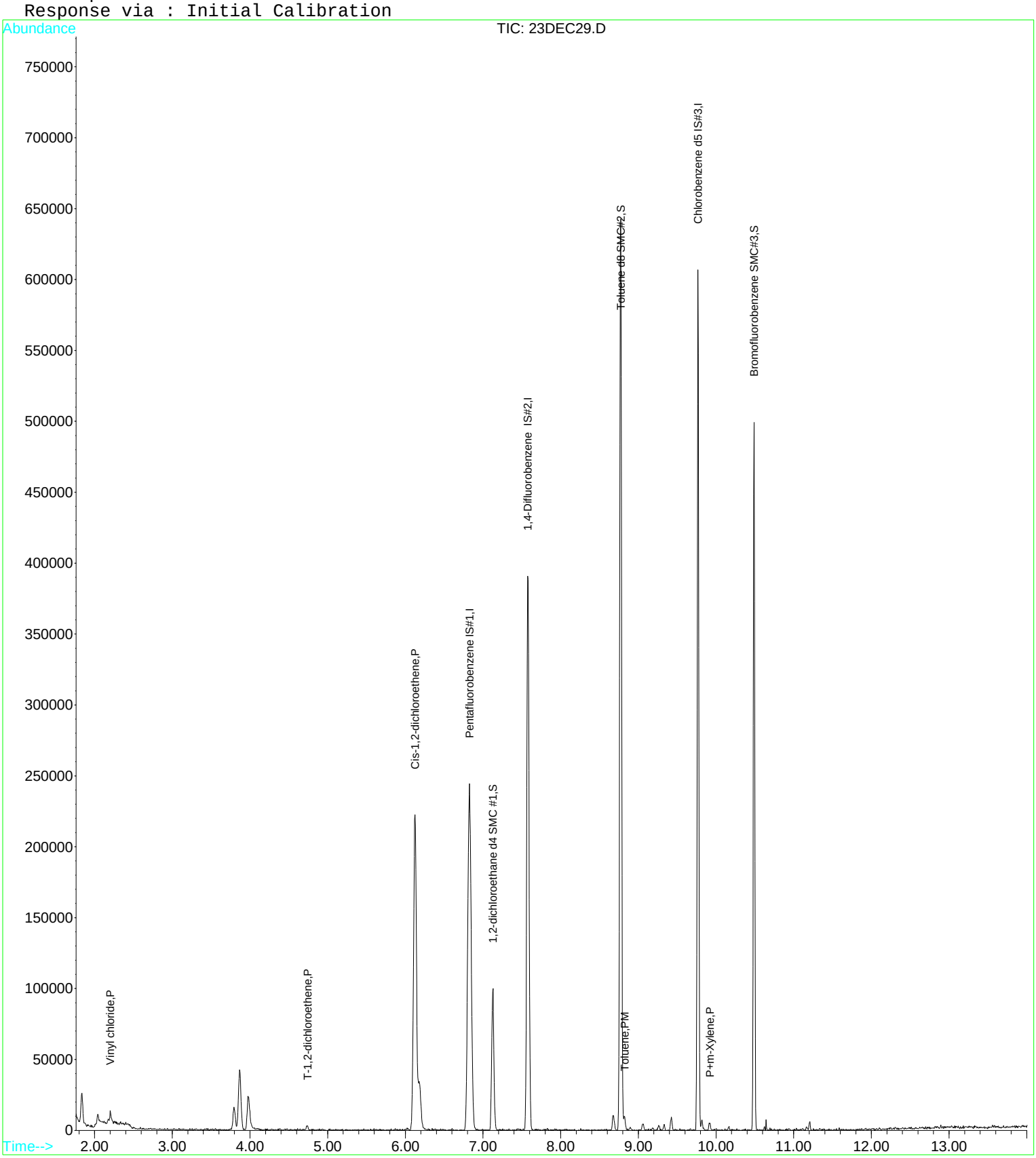
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	46259	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.57	63	68376	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	98048	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	74616	8.55	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 85.50%			
33) Toluene d8 SMC#2	8.77	98	424592m	11.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.00%			
51) Bromofluorobenzene SMC#3	10.49	95	136349	9.31	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.10%			
Target Compounds						Qvalue
5) Vinyl chloride	2.21	62	7183	0.58	ug/L #	1
14) T-1,2-dichloroethene	4.74	96	1347	0.11	ug/L #	30
17) Cis-1,2-dichloroethene	6.12	96	148774	11.74	ug/L	89
34) Toluene	8.83	92	4533	0.16	ug/L	76
45) P+m-Xylene	9.93	106	1763	0.08	ug/L #	49

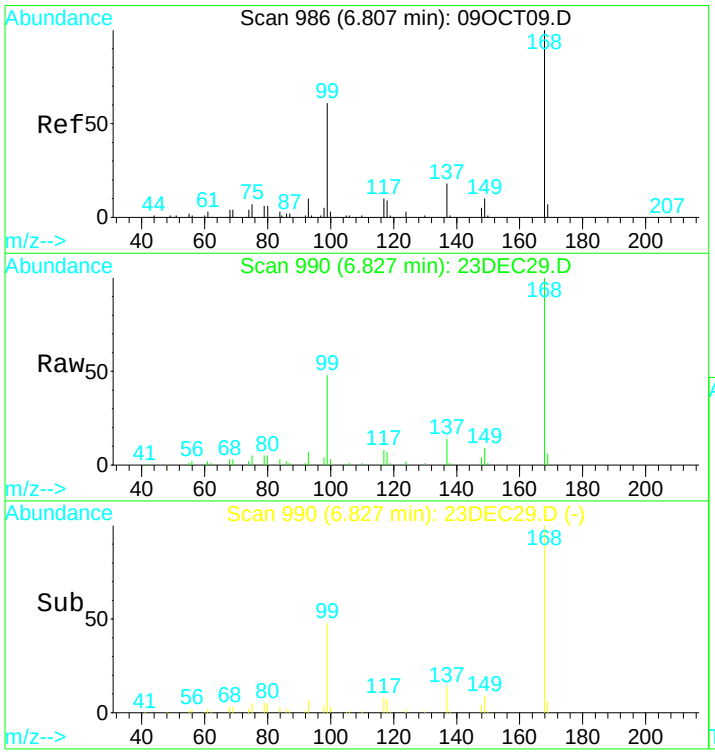
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:56 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

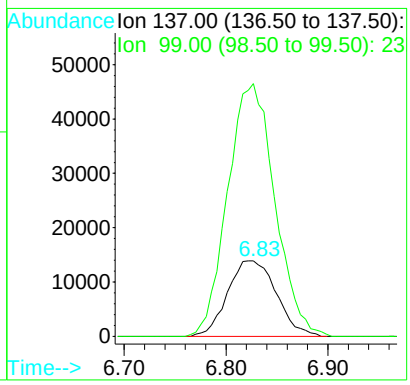


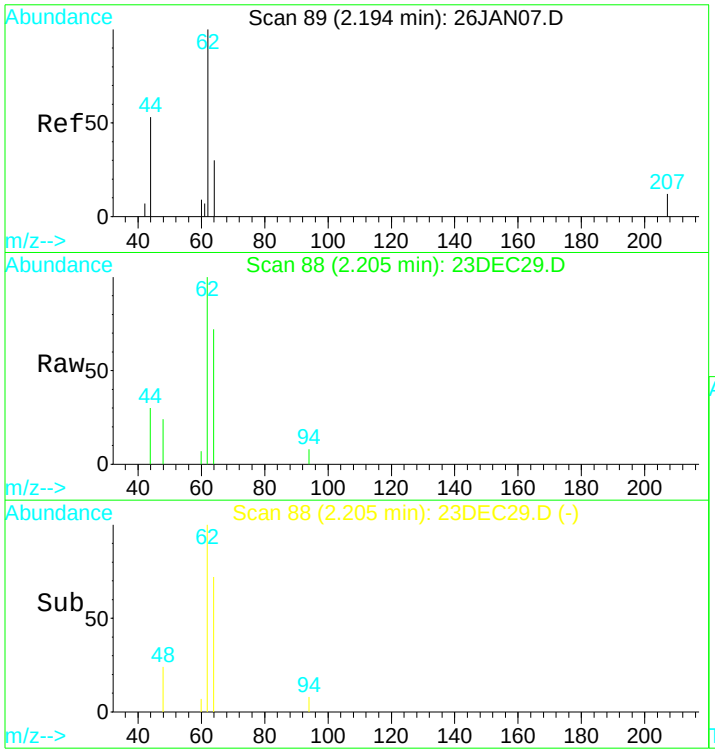


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion:137 Resp: 46259

Ion	Ratio	Lower	Upper
137	100		
99	323.4	1431.5	2658.5#

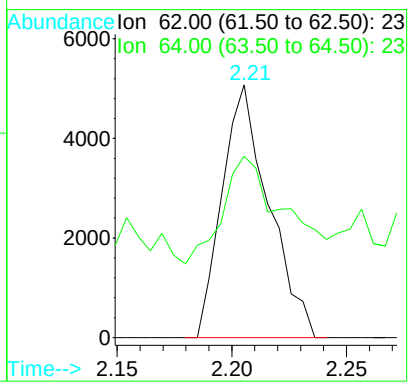


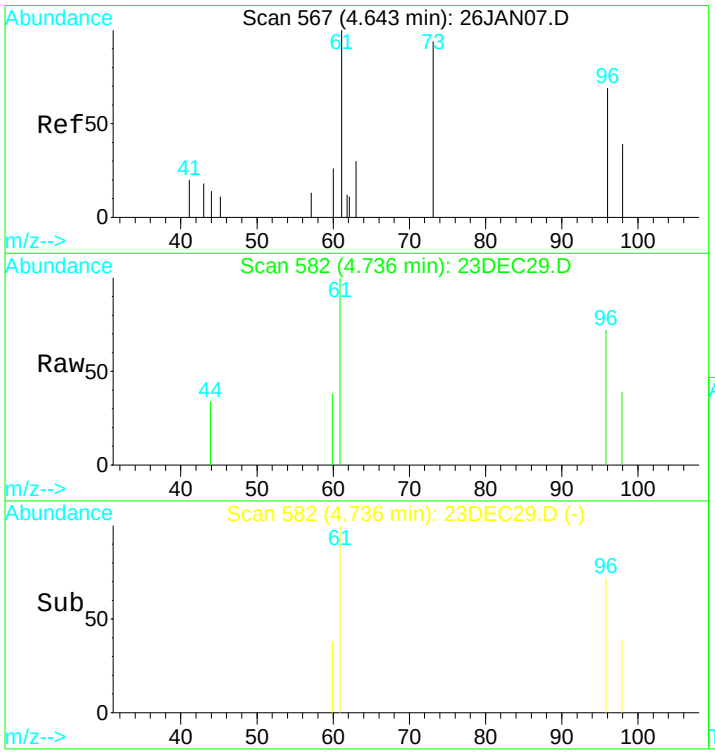


#5
Vinyl chloride
Concen: 0.58 ug/L
RT: 2.21 min Scan# 88
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 62 Resp: 7183

Ion	Ratio	Lower	Upper
62	100		
64	176.0	24.5	45.5#

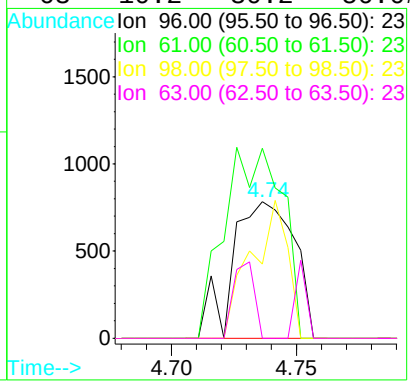


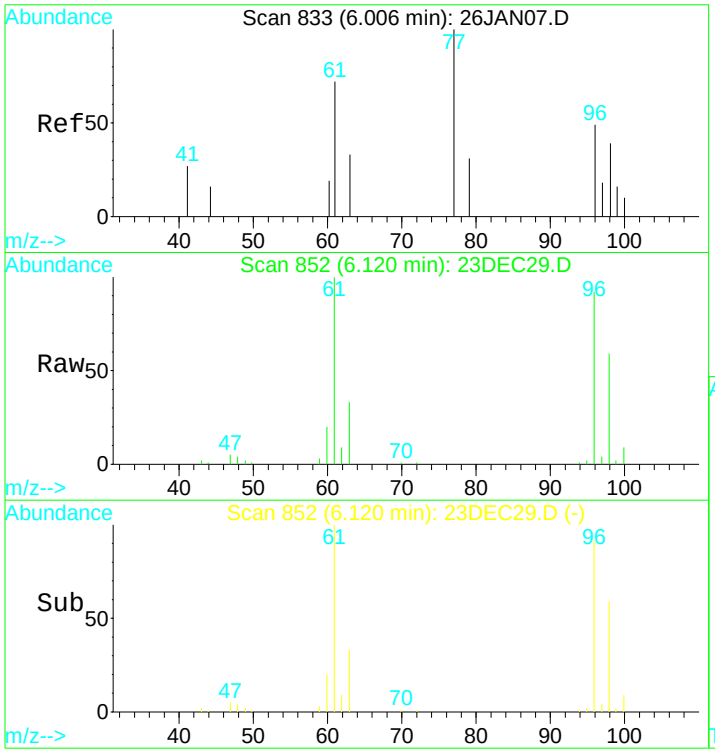


#14
T-1,2-dichloroethene
Concen: 0.11 ug/L
RT: 4.74 min Scan# 582
Delta R.T. 0.01 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 96 Resp: 1347

Ion	Ratio	Lower	Upper
96	100		
61	0.0	86.7	160.9#
98	59.3	45.1	83.9
63	10.2	30.2	56.0#

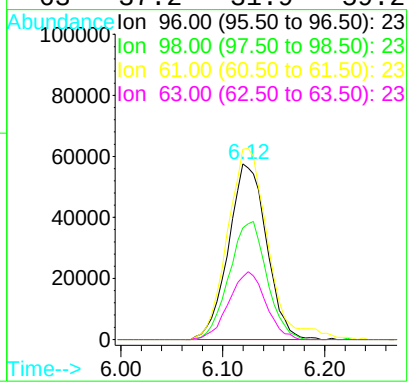


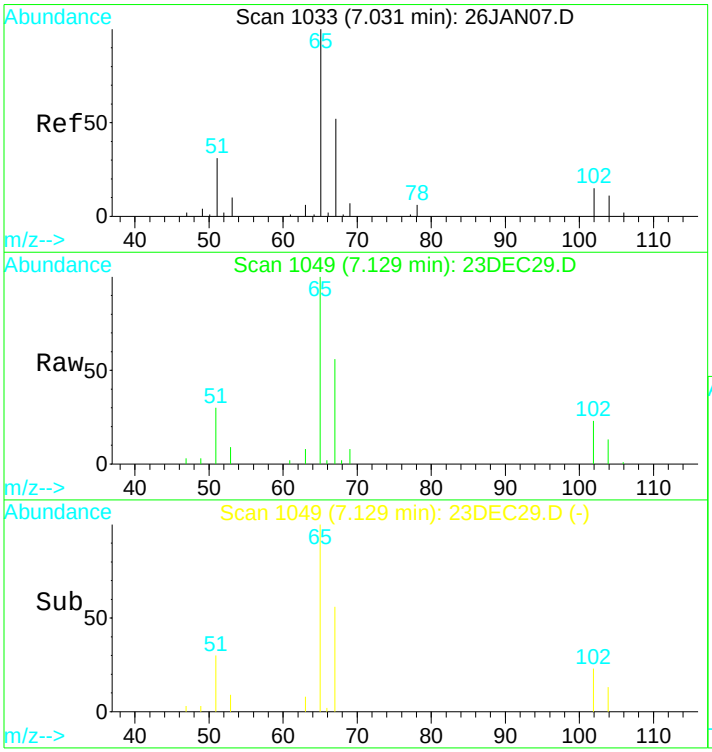


#17
Cis-1,2-dichloroethene
Concen: 11.74 ug/L
RT: 6.12 min Scan# 852
Delta R.T. -0.01 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 96 Resp: 148774

Ion	Ratio	Lower	Upper
96	100		
98	66.3	45.6	84.8
61	115.3	92.7	172.3
63	37.2	31.9	59.2

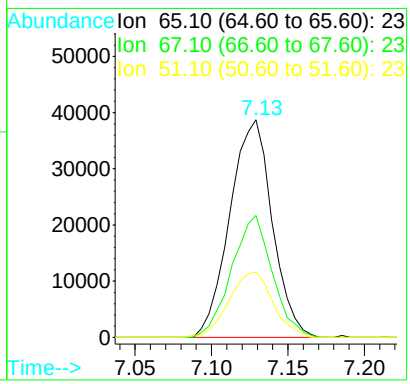


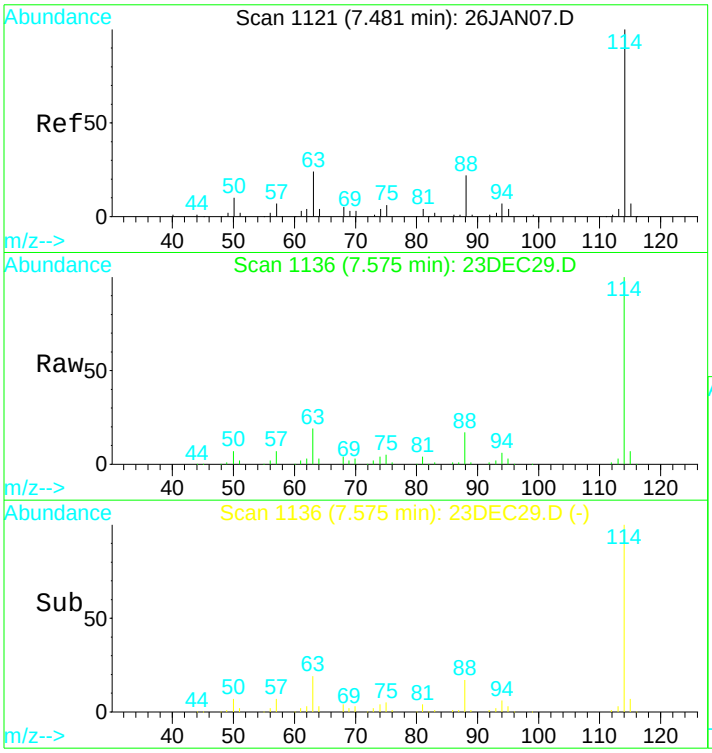


#23
1,2-dichloroethane d4 SMC #1
Concen: Below ug/L
RT: 7.13 min Scan# 1049
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 65 Resp: 74616

Ion	Ratio	Lower	Upper
65	100		
67	53.7	33.0	61.4
51	31.2	302.3	561.3#

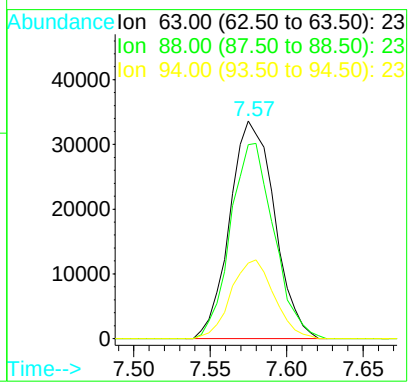


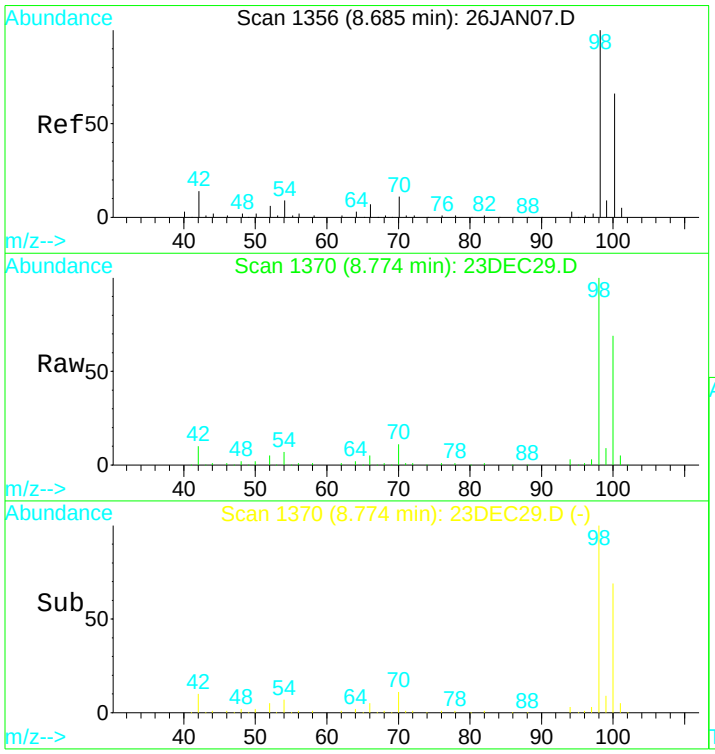


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 63 Resp: 68376

Ion	Ratio	Lower	Upper
63	100		
88	86.9	57.7	107.3
94	34.8	25.6	47.4

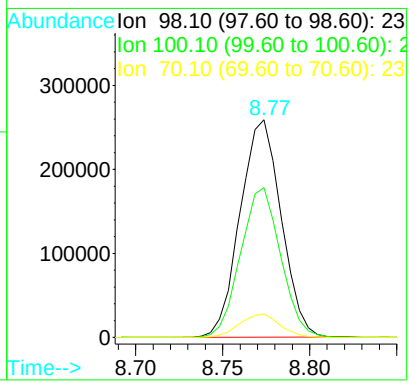


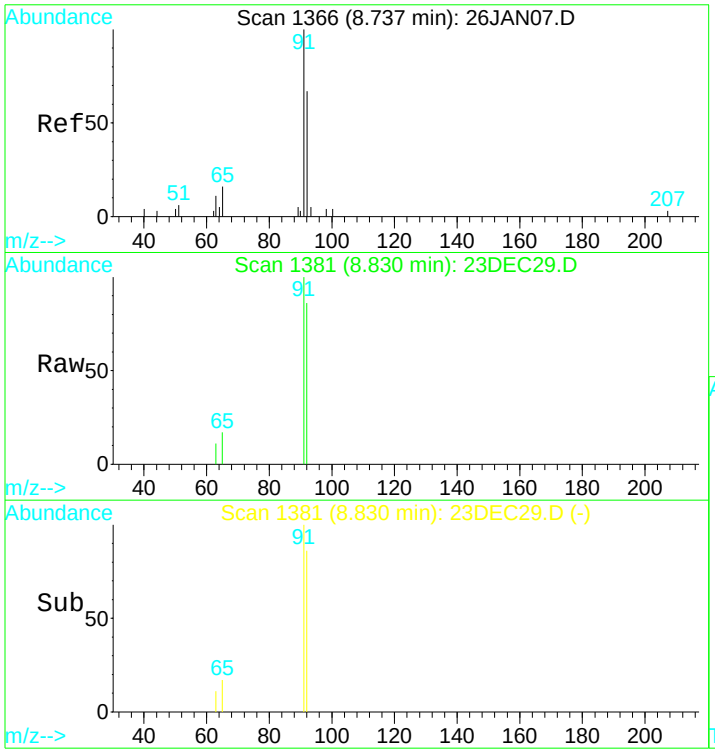


#33
Toluene d8 SMC#2
Concen: N.D. ug/L m
RT: 8.77 min Scan# 1370
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 98 Resp: 424592

Ion	Ratio	Lower	Upper
98	100		
100	67.1	46.0	85.4
70	10.6	8.2	15.2

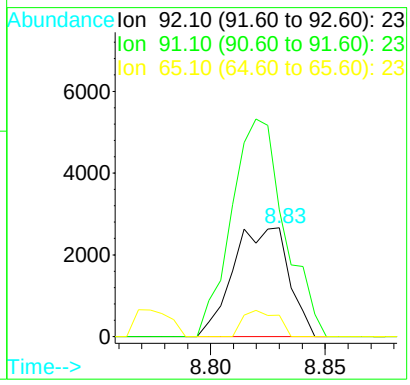


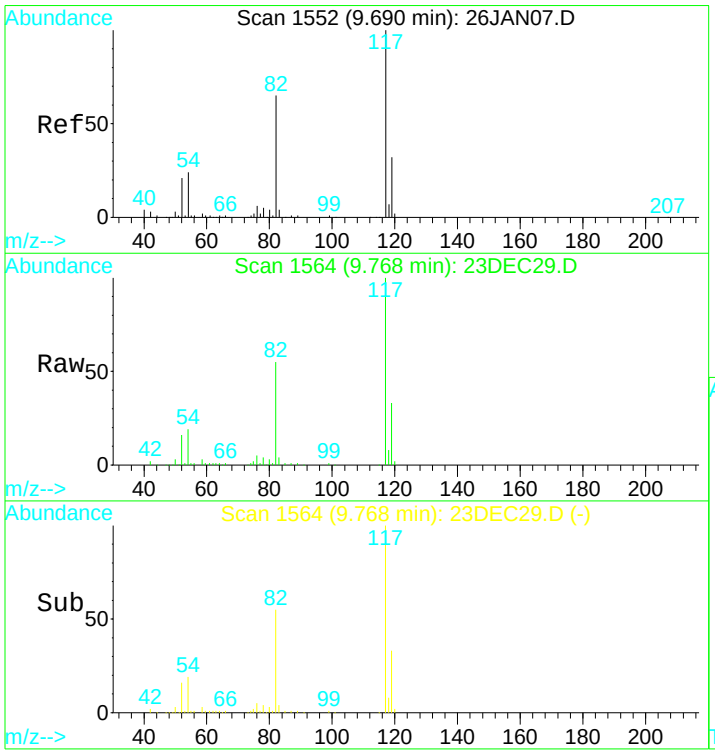


#34
Toluene
Concen: 0.16 ug/L
RT: 8.83 min Scan# 1381
Delta R.T. 0.01 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 92 Resp: 4533

Ion	Ratio	Lower	Upper
92	100		
91	188.7	108.6	201.8
65	15.0	14.8	27.4

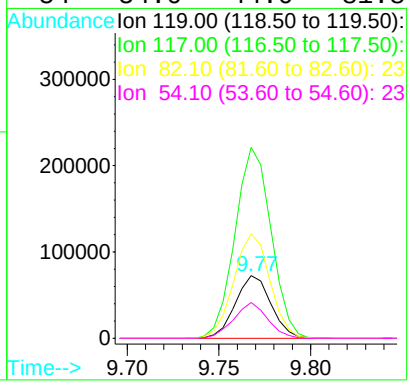


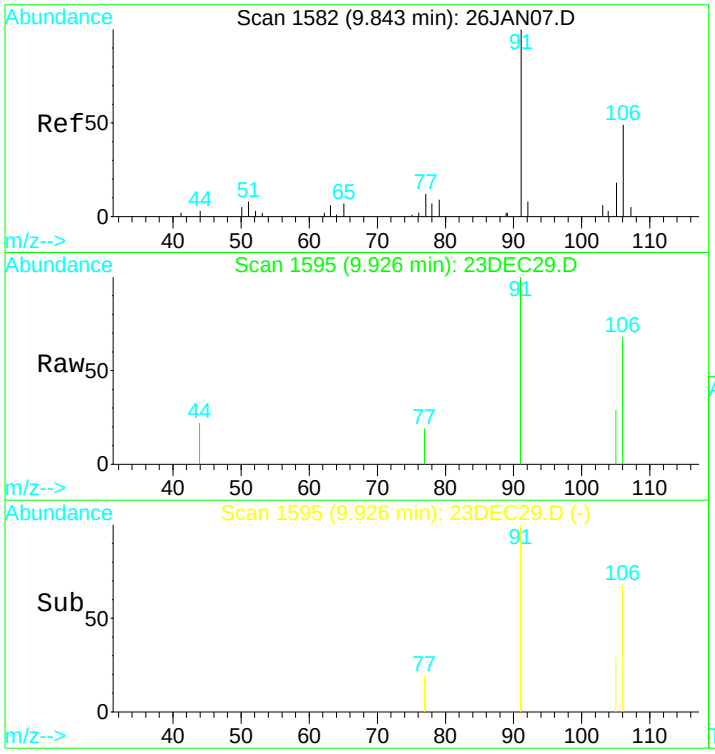


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion:119 Resp: 98048

Ion	Ratio	Lower	Upper
119	100		
117	308.7	215.8	400.8
82	168.8	123.7	229.7
54	54.0	44.0	81.8

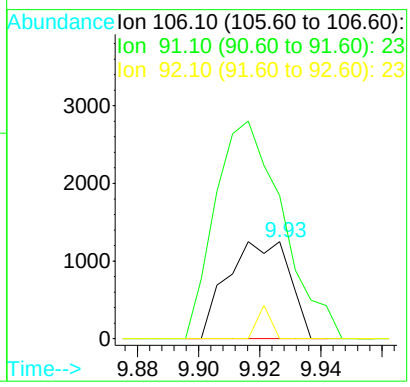


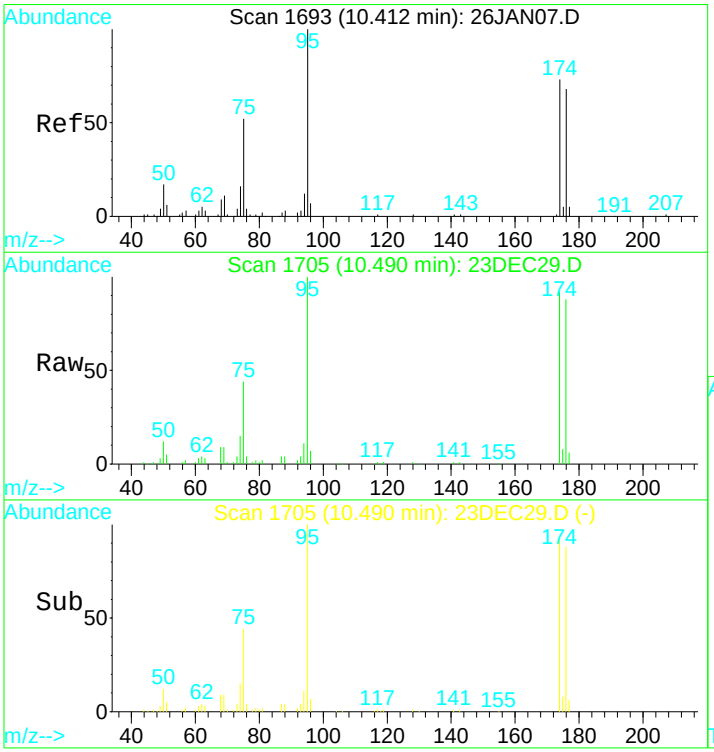


#45
P+m-Xylene
Concen: 0.08 ug/L
RT: 9.93 min Scan# 1595
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion:106 Resp: 1763

Ion	Ratio	Lower	Upper
106	100		
91	243.8	119.1	221.1#
92	7.5	14.1	26.3#

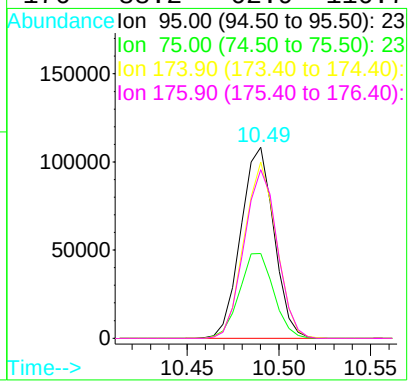




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1705
Delta R.T. -0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 95 Resp: 136349

Ion	Ratio	Lower	Upper
95	100		
75	45.7	35.4	65.8
174	89.8	63.8	118.4
176	88.2	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:57 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

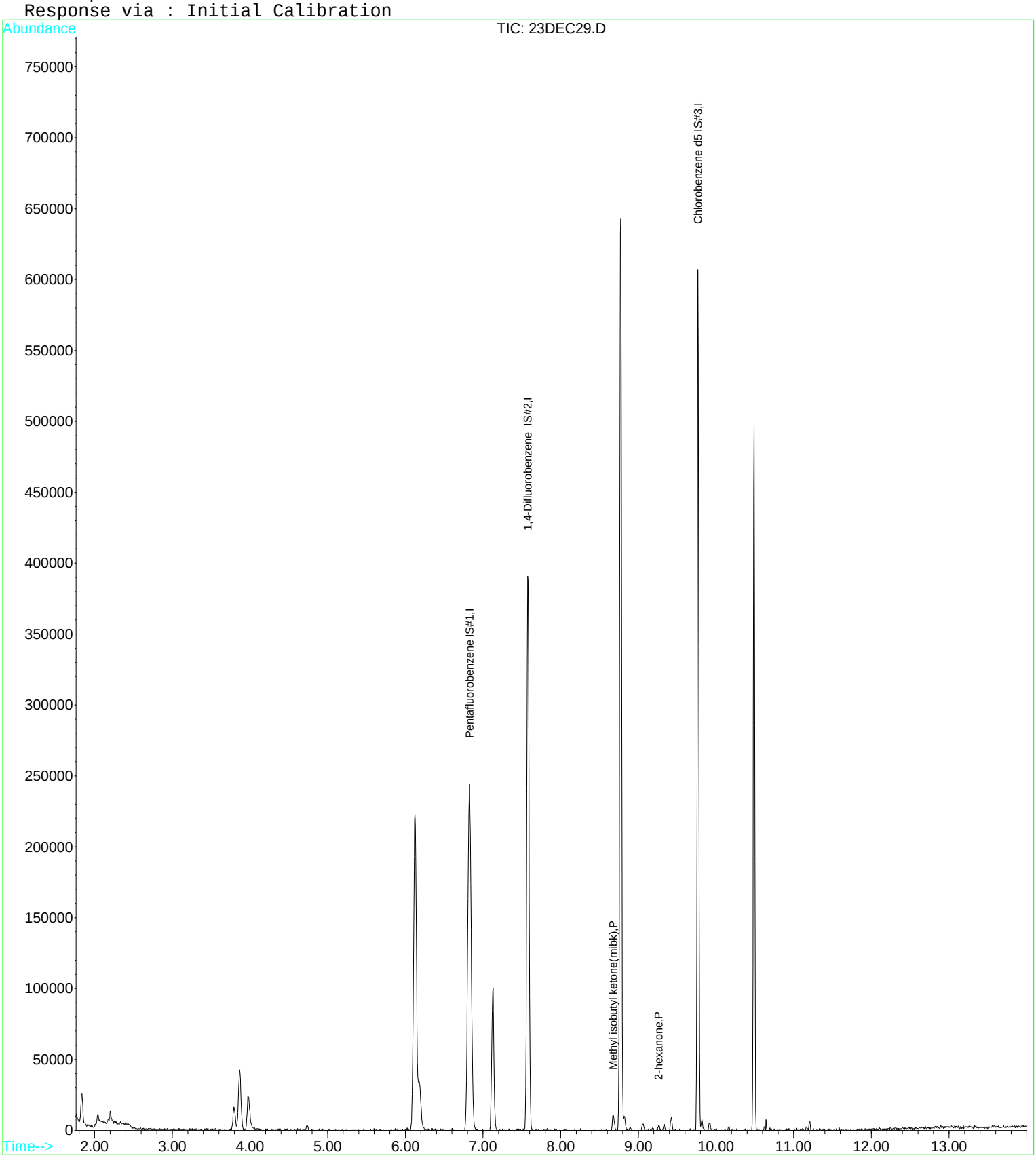
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	46259	10.00	ug/L	0.01
29) 1,4-Difluorobenzene IS#2	7.57	63	68376	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	98048	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	8028	4.06	ug/L	93
35) 2-hexanone	9.26	43	2270	1.68	ug/L	88

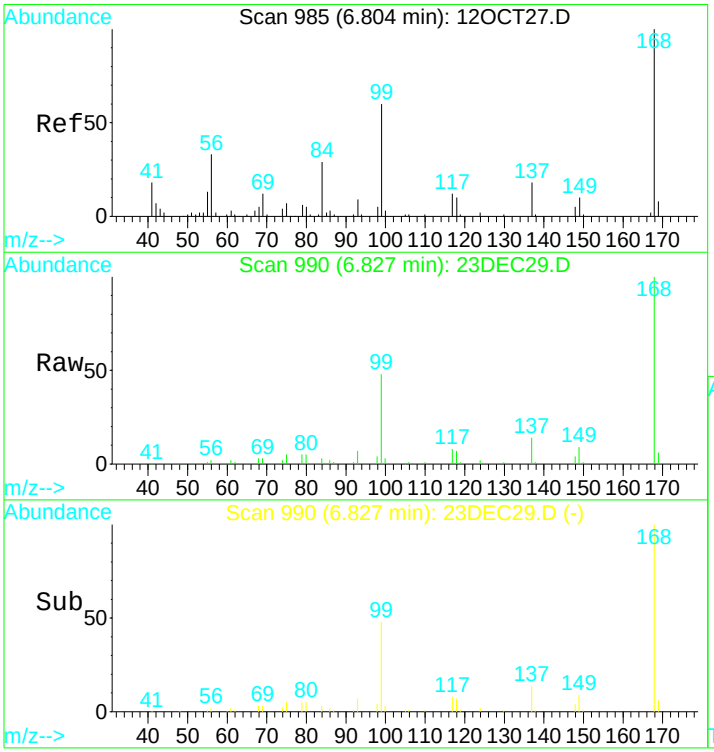
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:57 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

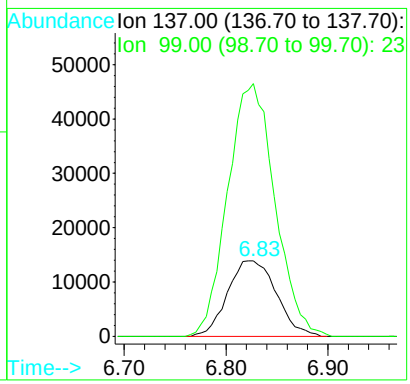


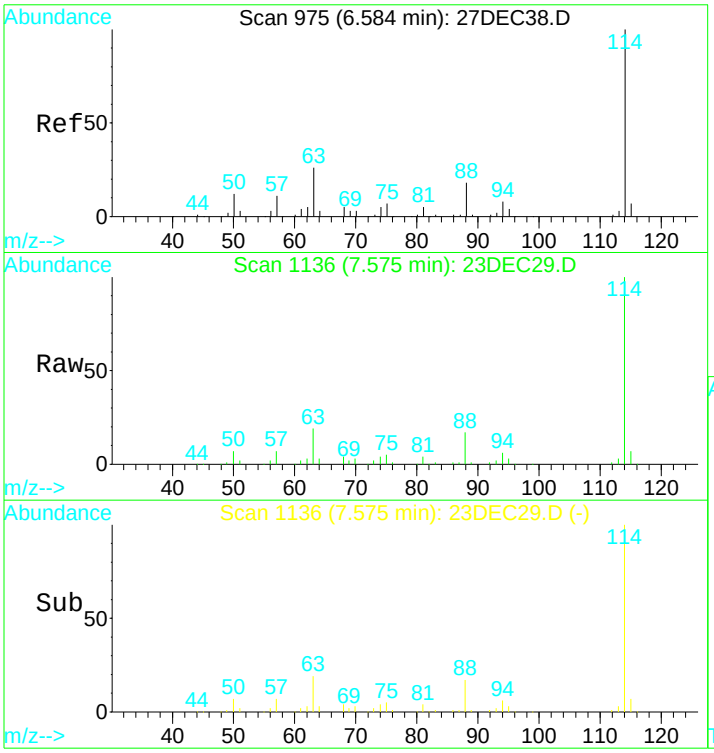


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.01 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion:137 Resp: 46259

Ion	Ratio	Lower	Upper
137	100		
99	323.4	245.3	455.5

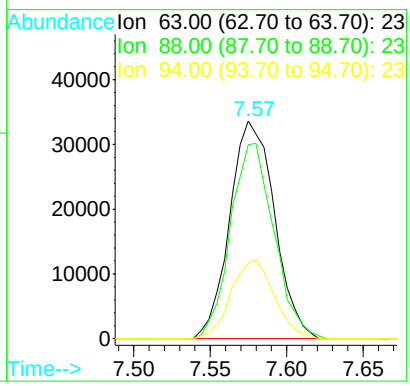


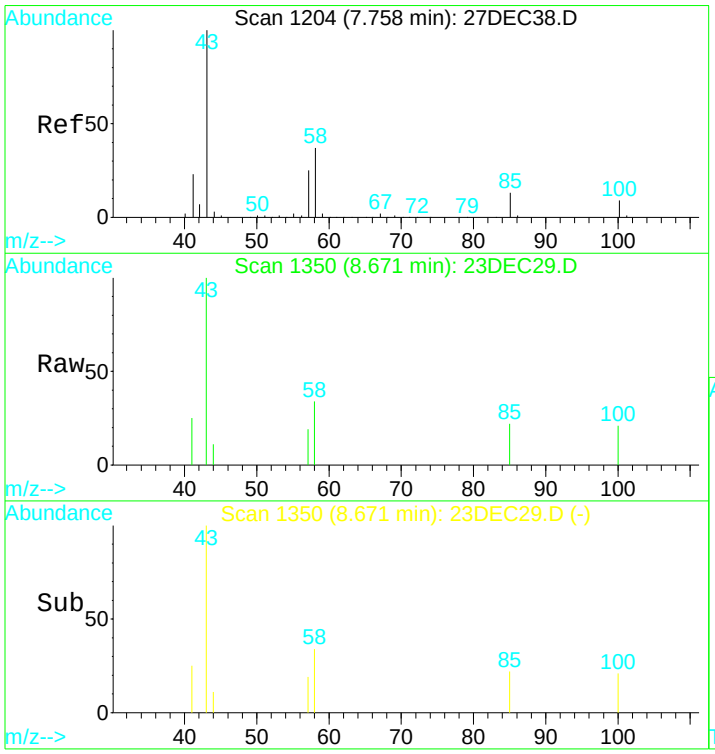


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 63 Resp: 68376

Ion	Ratio	Lower	Upper
63	100		
88	86.9	59.4	110.2
94	34.8	26.3	48.9

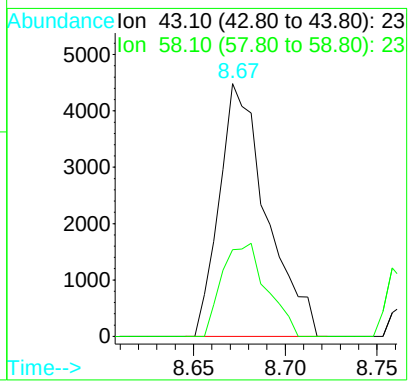


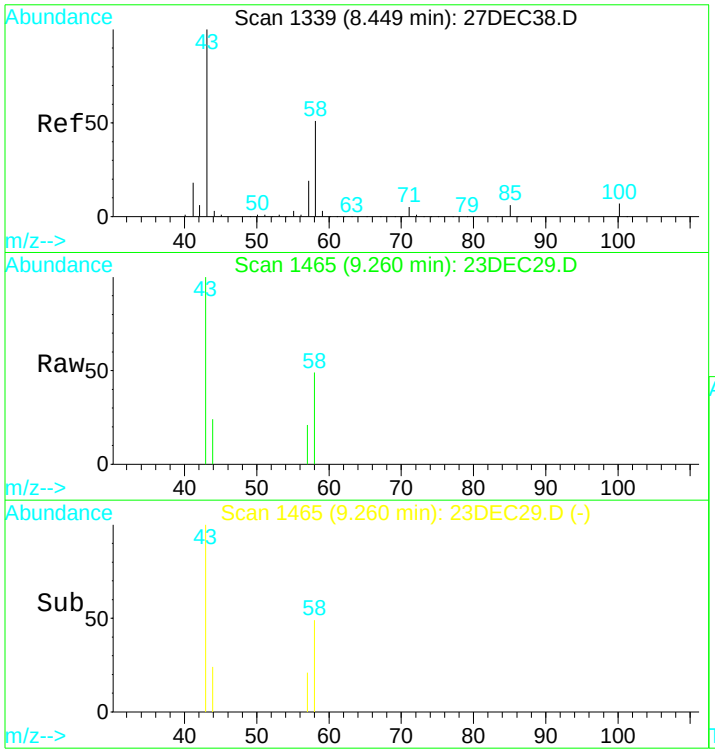


#33
Methyl isobutyl ketone(mibk)
Concen: 4.06 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.01 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 43 Resp: 8028

Ion	Ratio	Lower	Upper
43	100		
58	34.8	27.4	50.8

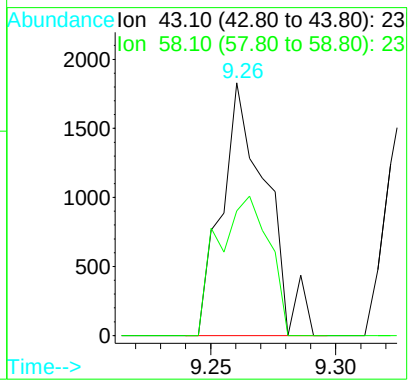


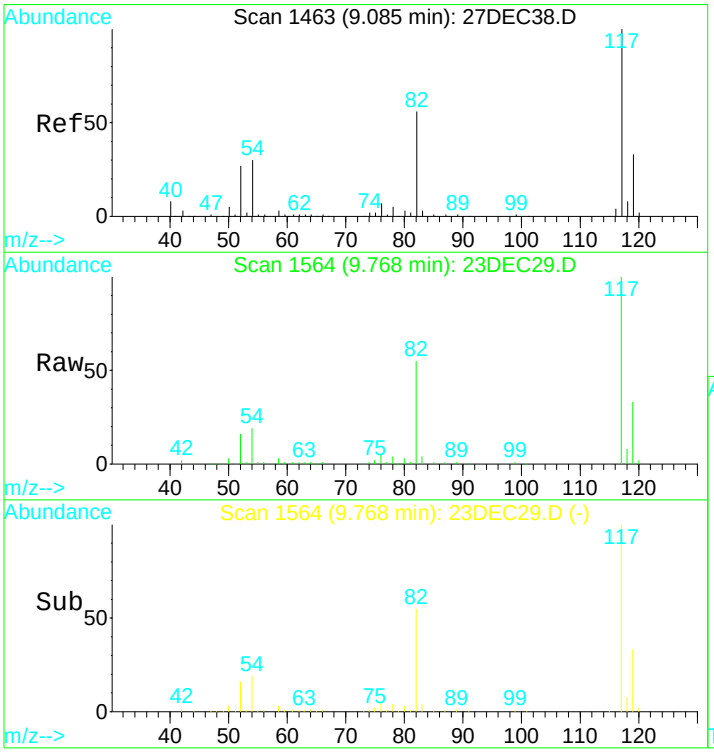


#35
2-hexanone
Concen: 1.68 ug/L
RT: 9.26 min Scan# 1465
Delta R.T. -0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion: 43 Resp: 2270

Ion	Ratio	Lower	Upper
43	100		
58	63.2	38.1	70.9

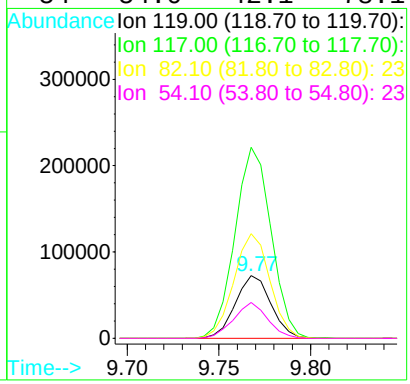




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC29.D
Acq: 23 Dec 2021 3:59 pm

Tgt Ion:119 Resp: 98048

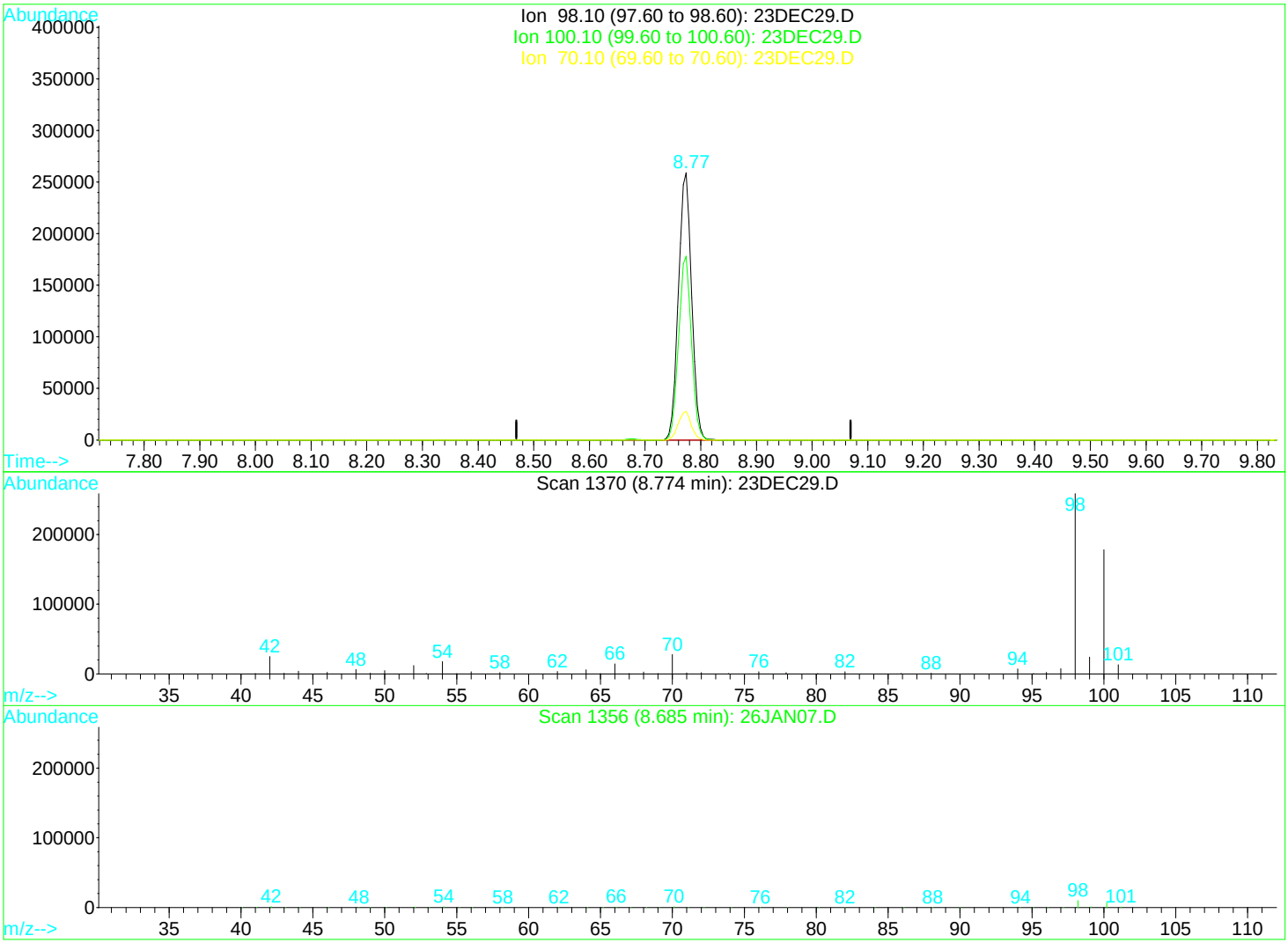
Ion	Ratio	Lower	Upper
119	100		
117	308.7	216.5	402.1
82	168.8	123.3	228.9
54	54.0	42.1	78.1



Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:55 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration



TIC: 23DEC29.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.24ug/L

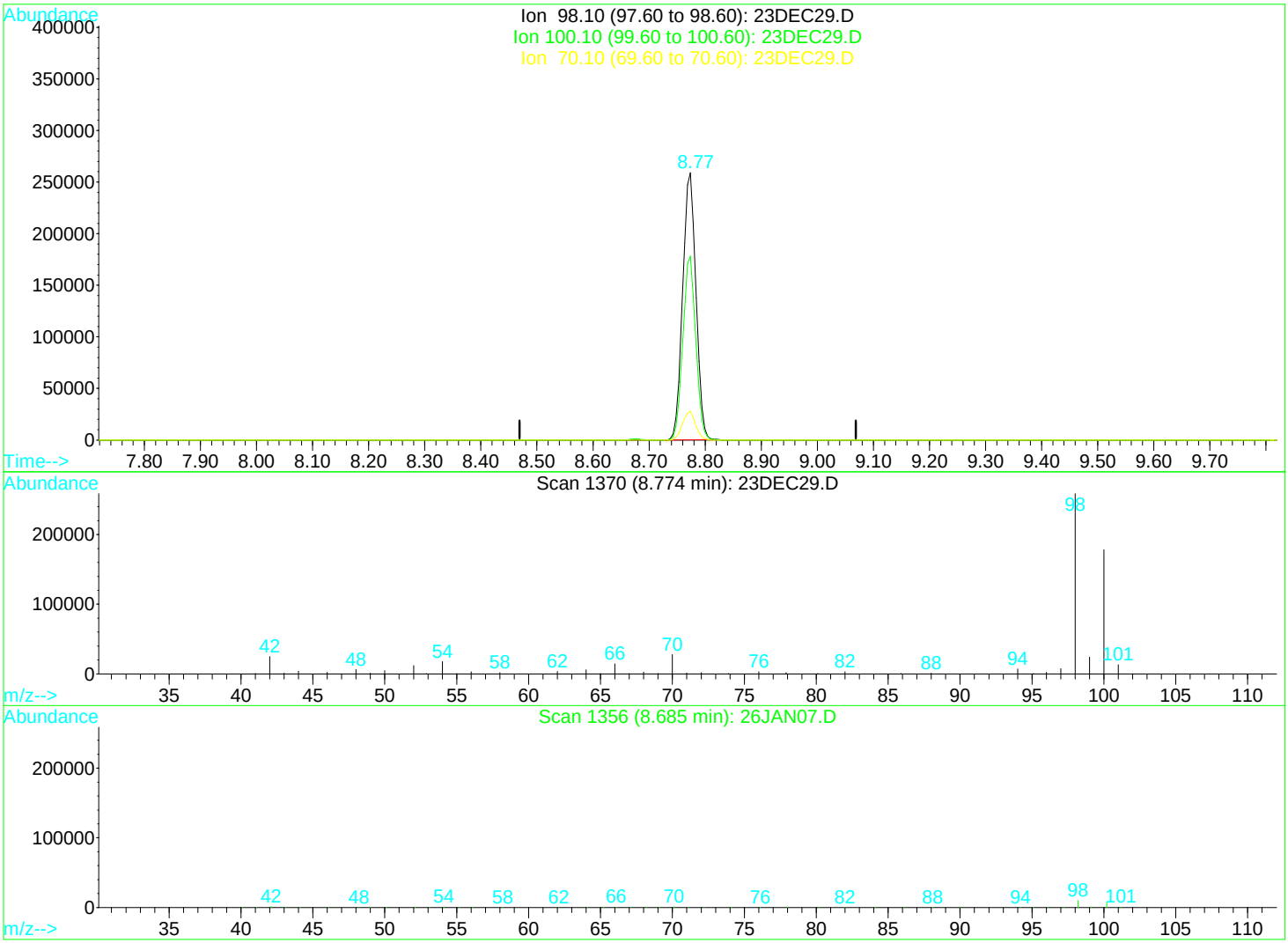
response 426123

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	66.88
70.10	11.70	10.56
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC29.D Vial: 29
Acq On : 23 Dec 2021 3:59 pm Operator: MGC
Sample : 2139227-05 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:55 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration



TIC: 23DEC29.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.20ug/L m

response 424592

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	67.12
70.10	11.70	10.59
0.00	0.00	0.00

Analyst: MGC
Date: 2021-12-27 05:55
Reason: (P) - Peak Correction - misidentification correction
(X) - Reviewed for acceptability

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC10.D Vial: 10
Acq On : 23 Dec 2021 8:16 am Operator: MGC
Sample : 2139227-06 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:53 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

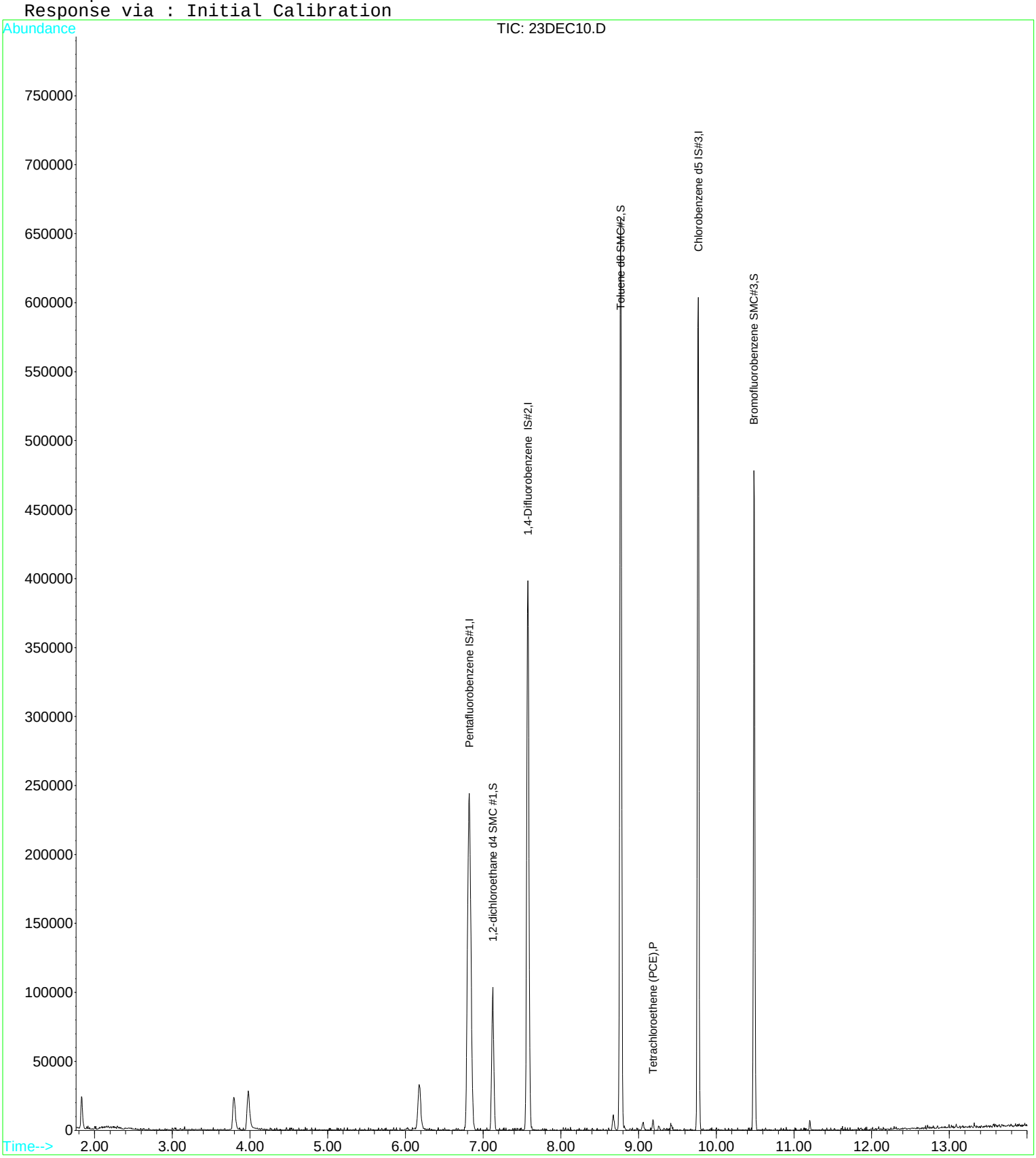
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	43526	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	70827	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	98875	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	74946	9.12	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 91.20%			
33) Toluene d8 SMC#2	8.77	98	424676	10.81	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.10%			
51) Bromofluorobenzene SMC#3	10.49	95	132093	8.95	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.50%			
Target Compounds						Qvalue
37) Tetrachloroethene (PCE)	9.18	166	2089	0.14	ug/L	# 75

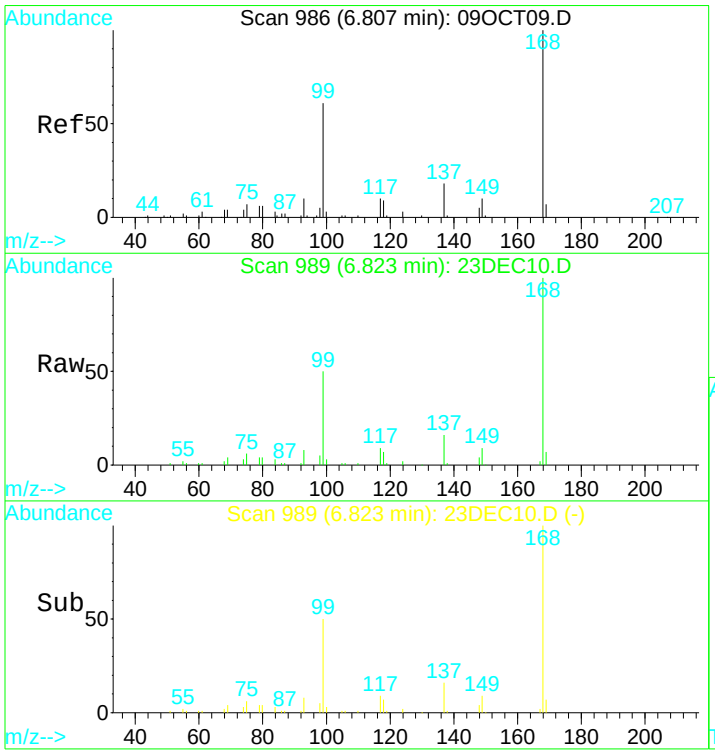
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC10.D Vial: 10
Acq On : 23 Dec 2021 8:16 am Operator: MGC
Sample : 2139227-06 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:53 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

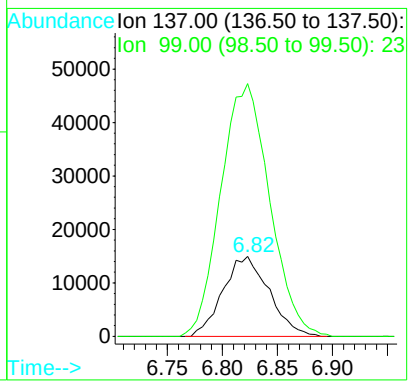


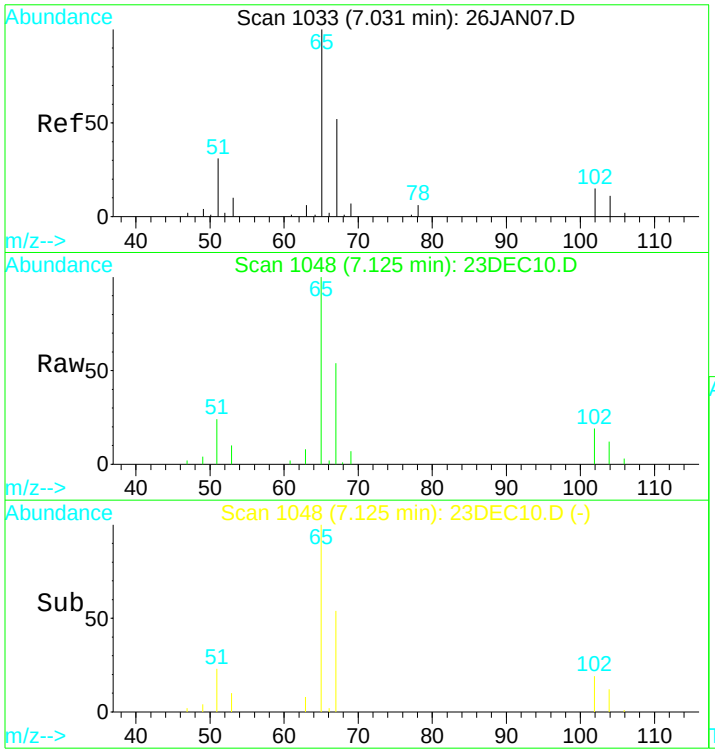


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.02 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion:137 Resp: 43526

Ion	Ratio	Lower	Upper
137	100		
99	335.1	1431.5	2658.5#

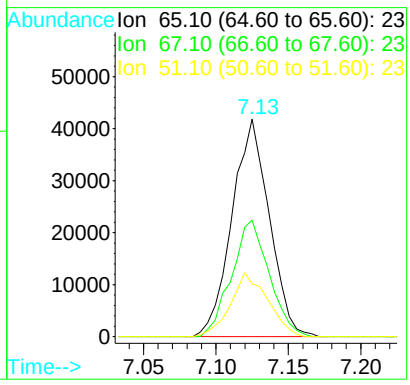


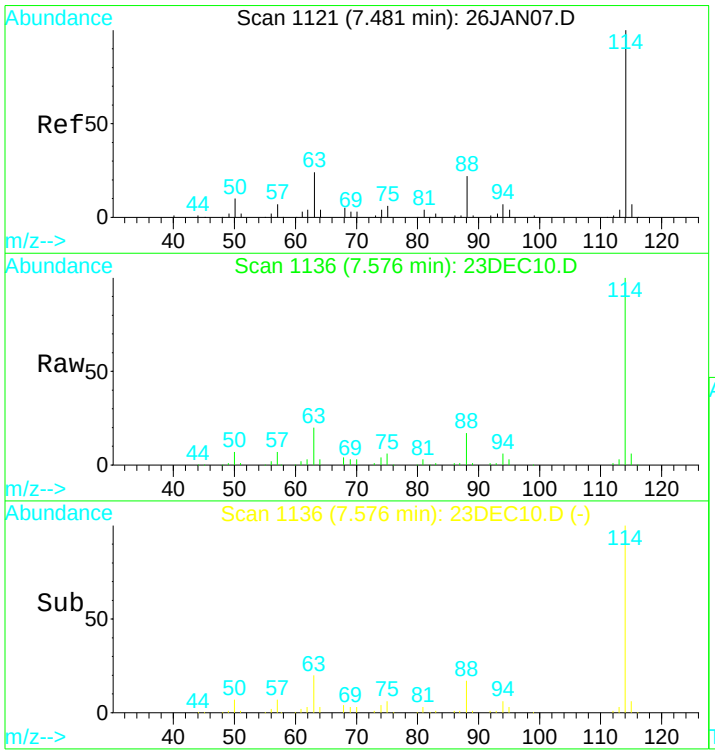


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 65 Resp: 74946

Ion	Ratio	Lower	Upper
65	100		
67	53.8	33.0	61.4
51	29.2	302.3	561.3#

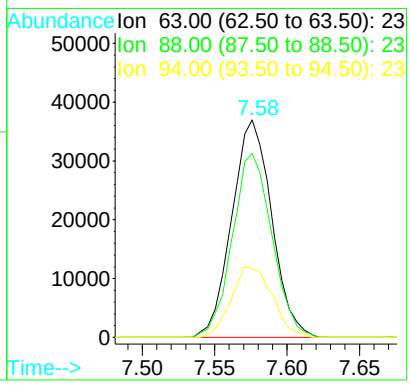


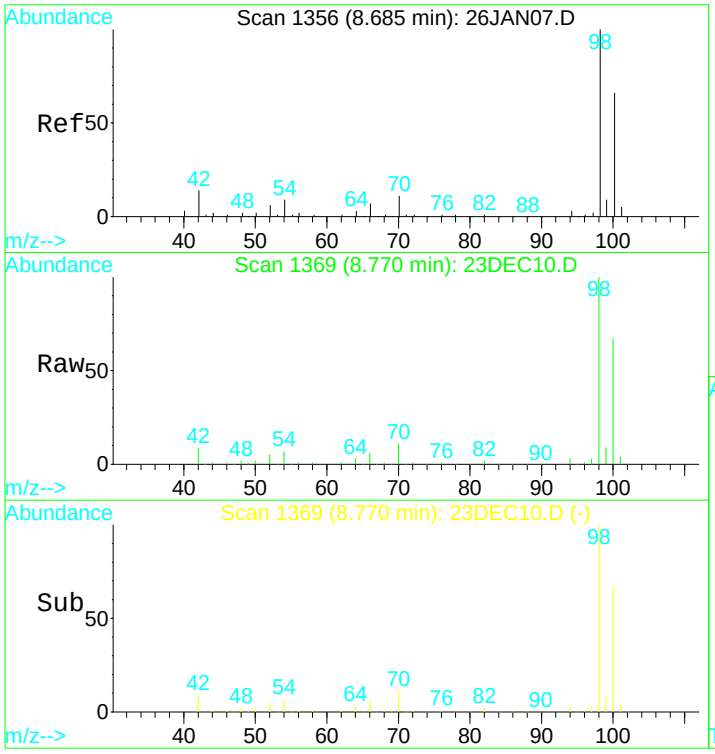


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 63 Resp: 70827

Ion	Ratio	Lower	Upper
63	100		
88	84.0	57.7	107.3
94	33.5	25.6	47.4

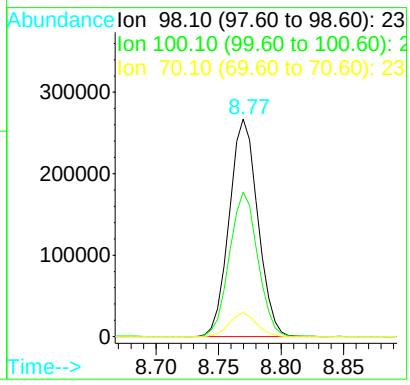


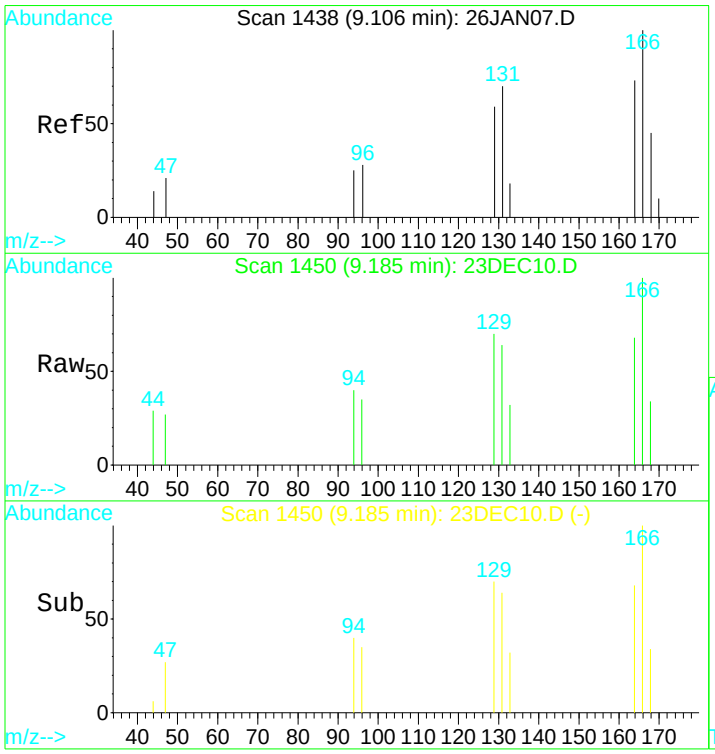


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 98 Resp: 424676

Ion	Ratio	Lower	Upper
98	100		
100	65.9	46.0	85.4
70	10.5	8.2	15.2

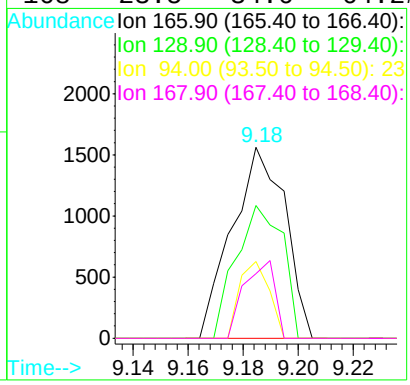


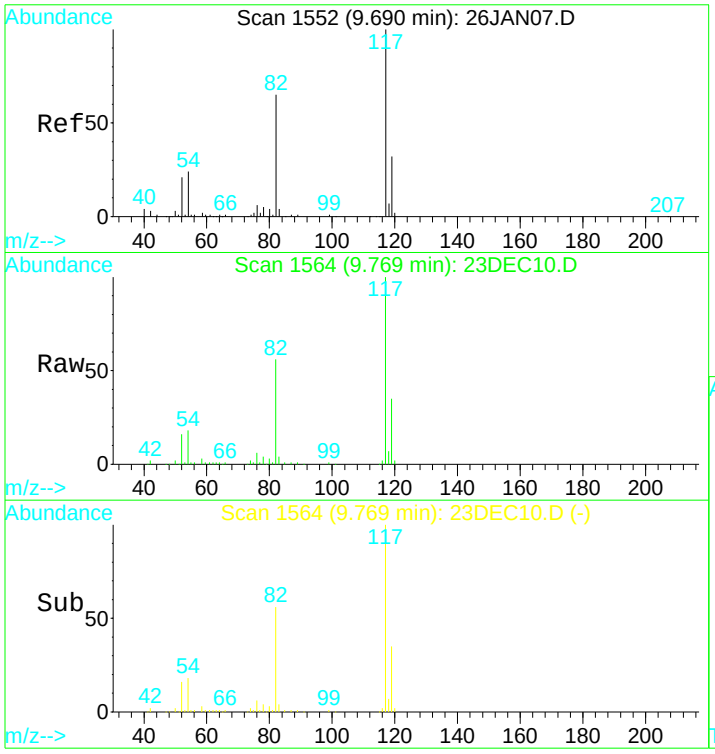


#37
Tetrachloroethene (PCE)
Concen: 0.14 ug/L
RT: 9.18 min Scan# 1450
Delta R.T. 0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion:166 Resp: 2089

Ion	Ratio	Lower	Upper
166	100		
129	61.0	48.4	89.8
94	22.5	32.1	59.7#
168	23.5	34.6	64.2#

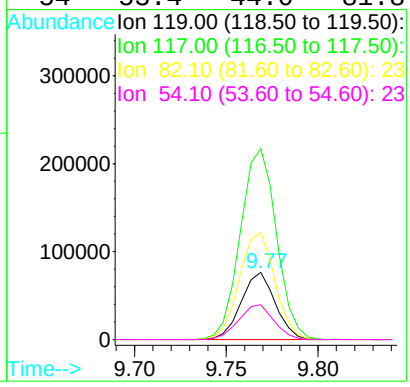


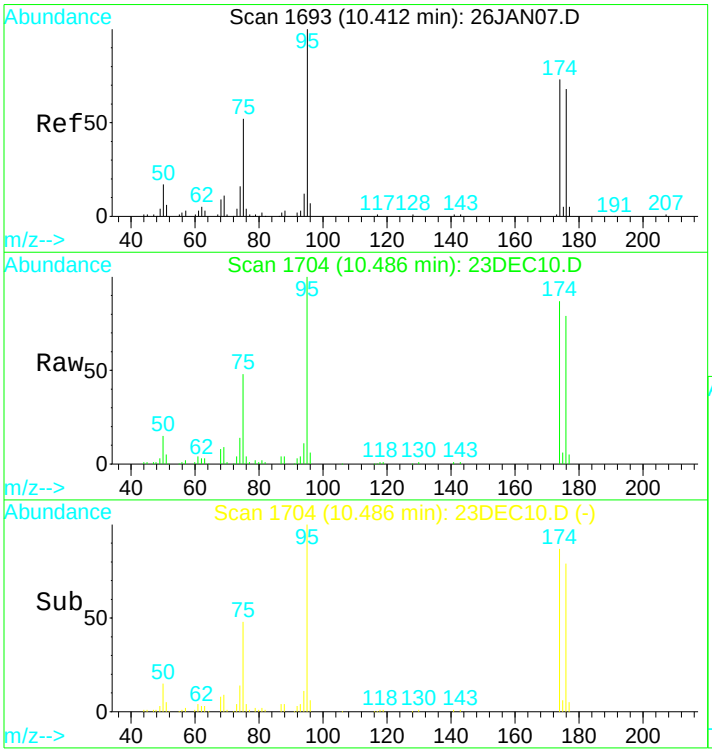


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion:119 Resp: 98875

Ion	Ratio	Lower	Upper
119	100		
117	300.8	215.8	400.8
82	165.8	123.7	229.7
54	53.4	44.0	81.8

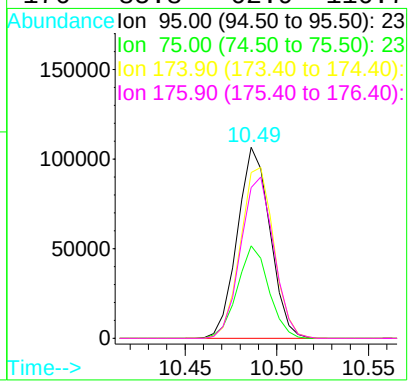




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 95 Resp: 132093

Ion	Ratio	Lower	Upper
95	100		
75	46.5	35.4	65.8
174	91.2	63.8	118.4
176	85.8	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC10.D Vial: 10
Acq On : 23 Dec 2021 8:16 am Operator: MGC
Sample : 2139227-06 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:54 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

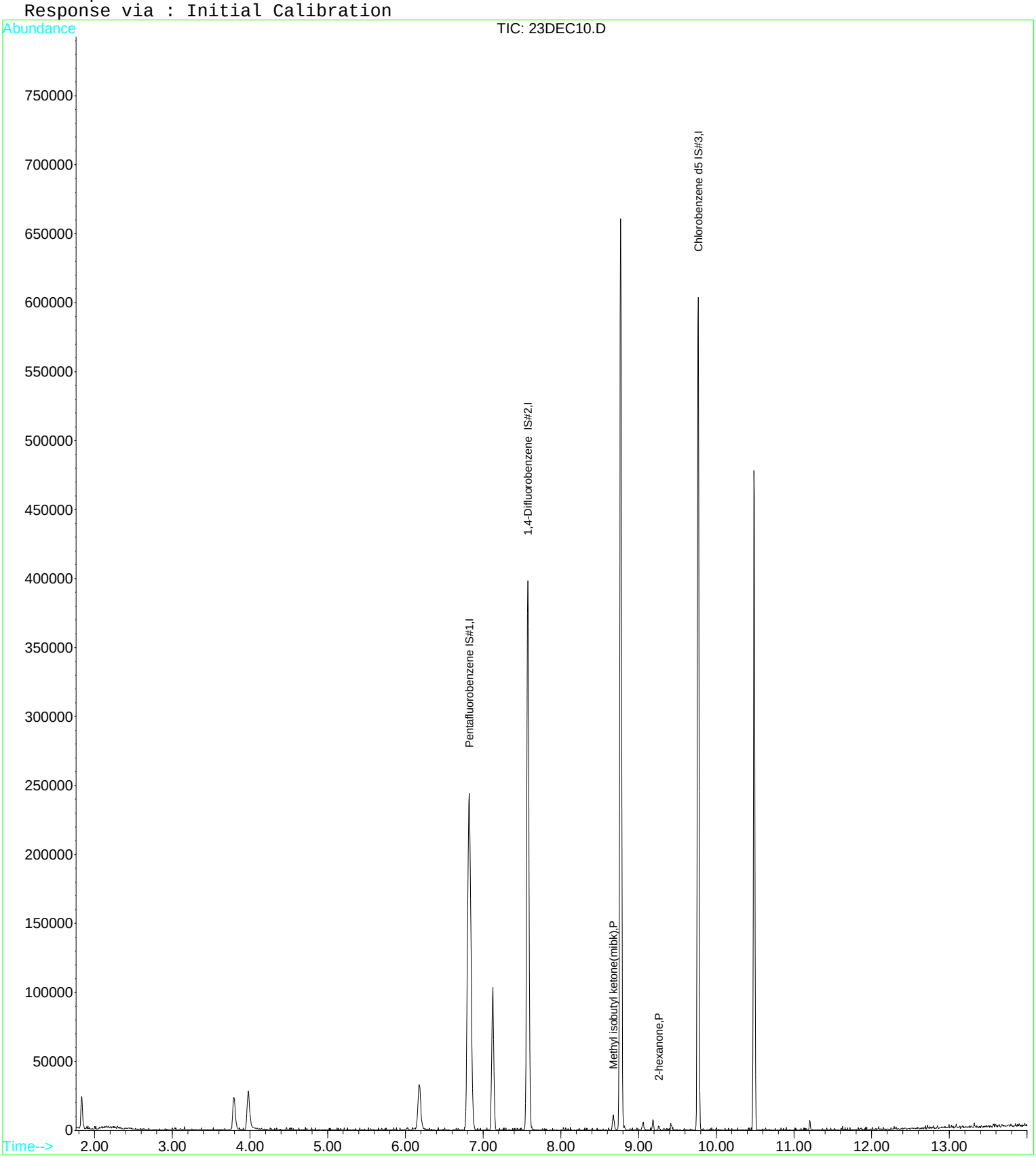
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	43526	10.00	ug/L	0.01
29) 1,4-Difluorobenzene IS#2	7.58	63	70827	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	98875	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	7166	3.50	ug/L	93
35) 2-hexanone	9.27	43	2171	1.55	ug/L	77

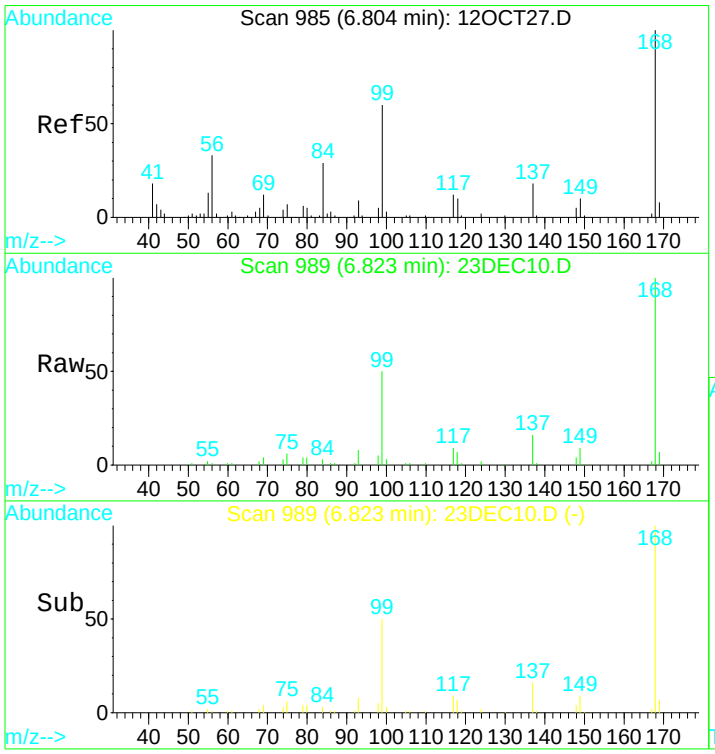
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC10.D Vial: 10
Acq On : 23 Dec 2021 8:16 am Operator: MGC
Sample : 2139227-06 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:54 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

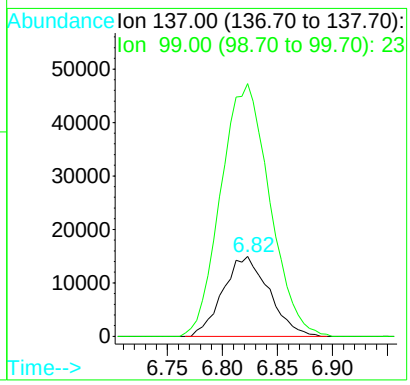


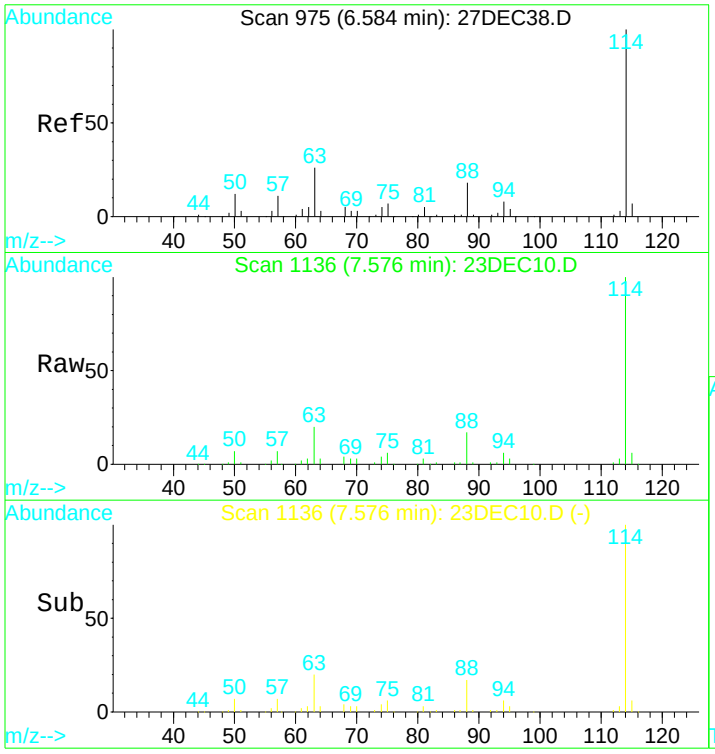


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion:137 Resp: 43526

Ion	Ratio	Lower	Upper
137	100		
99	335.1	245.3	455.5

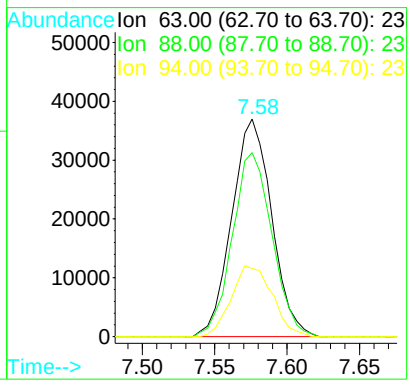


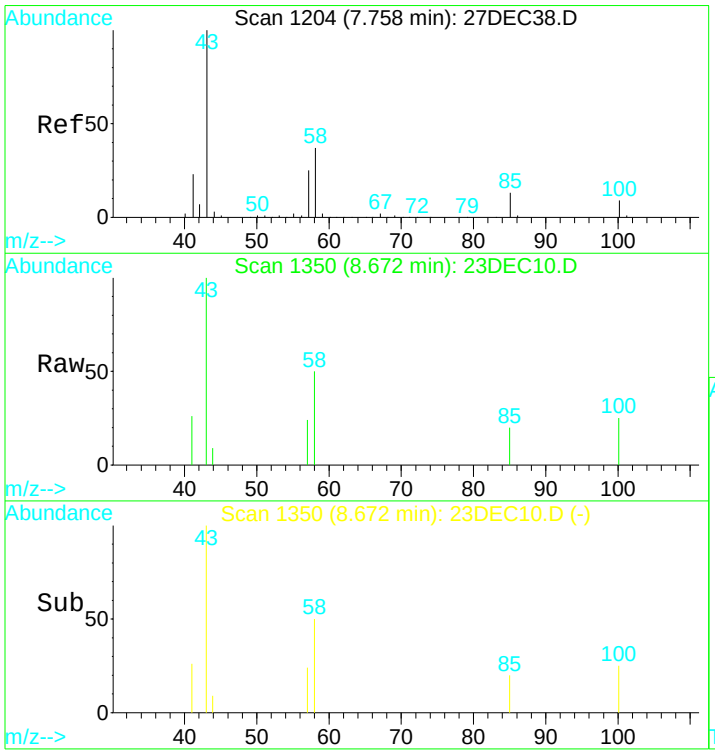


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 63 Resp: 70827

Ion	Ratio	Lower	Upper
63	100		
88	84.0	59.4	110.2
94	33.5	26.3	48.9

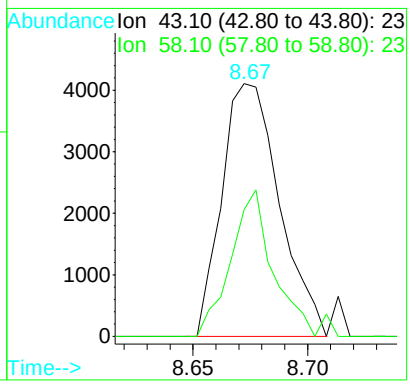


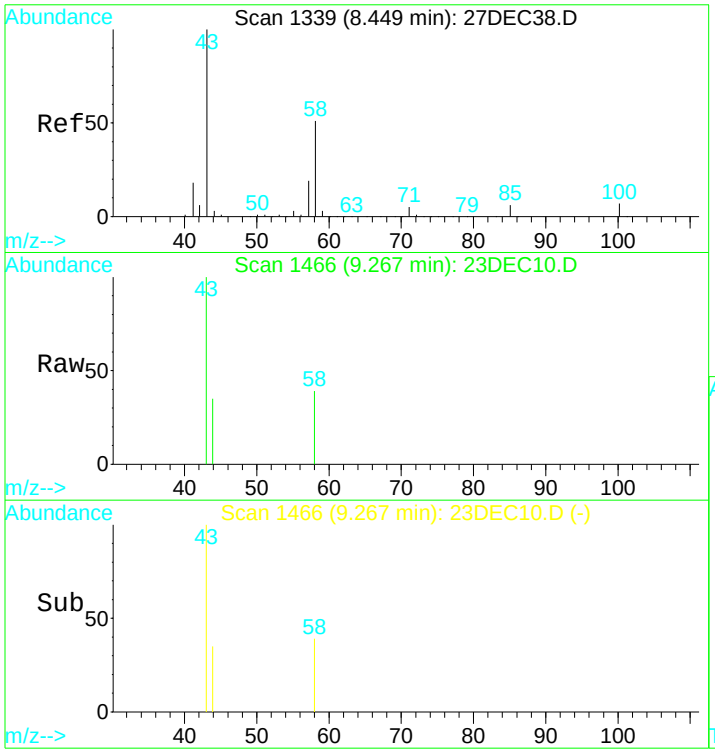


#33
Methyl isobutyl ketone(mibk)
Concen: 3.50 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 43 Resp: 7166

Ion	Ratio	Lower	Upper
43	100		
58	43.7	27.4	50.8

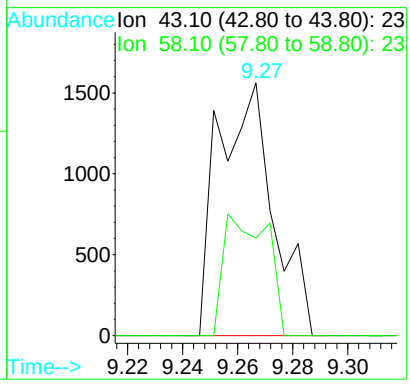


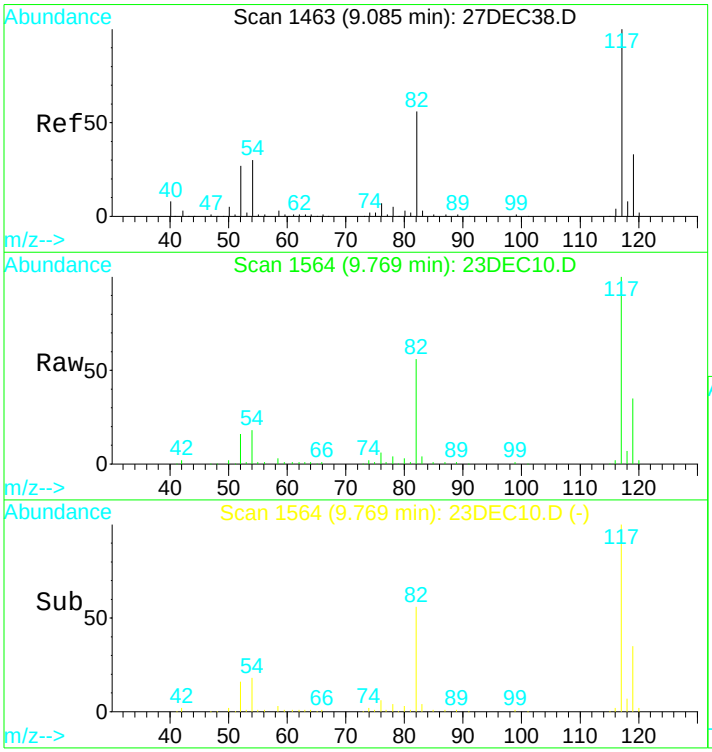


#35
2-hexanone
Concen: 1.55 ug/L
RT: 9.27 min Scan# 1466
Delta R.T. 0.01 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion: 43 Resp: 2171

Ion	Ratio	Lower	Upper
43	100		
58	38.2	38.1	70.9

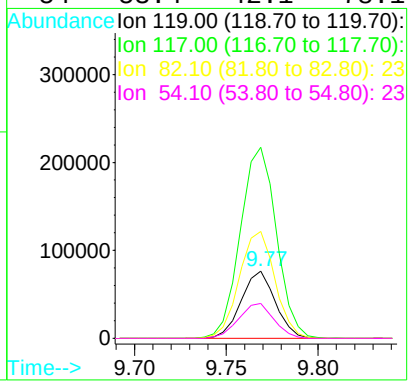




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC10.D
Acq: 23 Dec 2021 8:16 am

Tgt Ion:119 Resp: 98875

Ion	Ratio	Lower	Upper
119	100		
117	300.8	216.5	402.1
82	165.8	123.3	228.9
54	53.4	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC11.D Vial: 11
Acq On : 23 Dec 2021 8:40 am Operator: MGC
Sample : 2139227-07 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:54 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

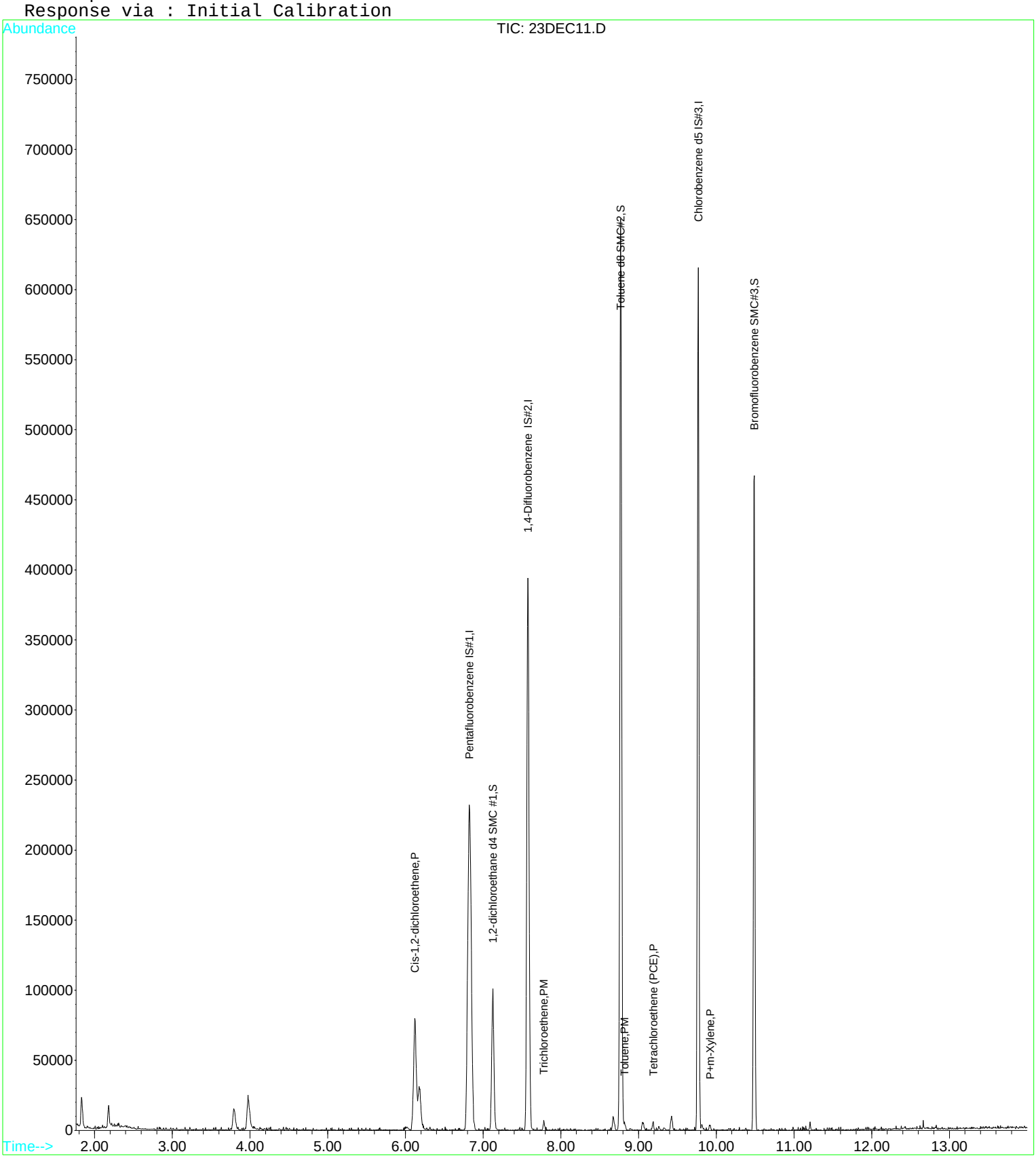
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45139	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	71424	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	98105	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	74940	8.80	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.00%			
33) Toluene d8 SMC#2	8.77	98	421566	10.64	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.40%			
51) Bromofluorobenzene SMC#3	10.49	95	132605	9.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.50%			
Target Compounds						Qvalue
17) Cis-1,2-dichloroethene	6.13	96	50251	4.06	ug/L	94
27) Trichloroethene	7.78	130	2281	0.17	ug/L	87
34) Toluene	8.82	92	2442	0.08	ug/L #	75
37) Tetrachloroethene (PCE)	9.19	166	1807	0.12	ug/L #	78
45) P+m-Xylene	9.92	106	1282	0.06	ug/L #	54

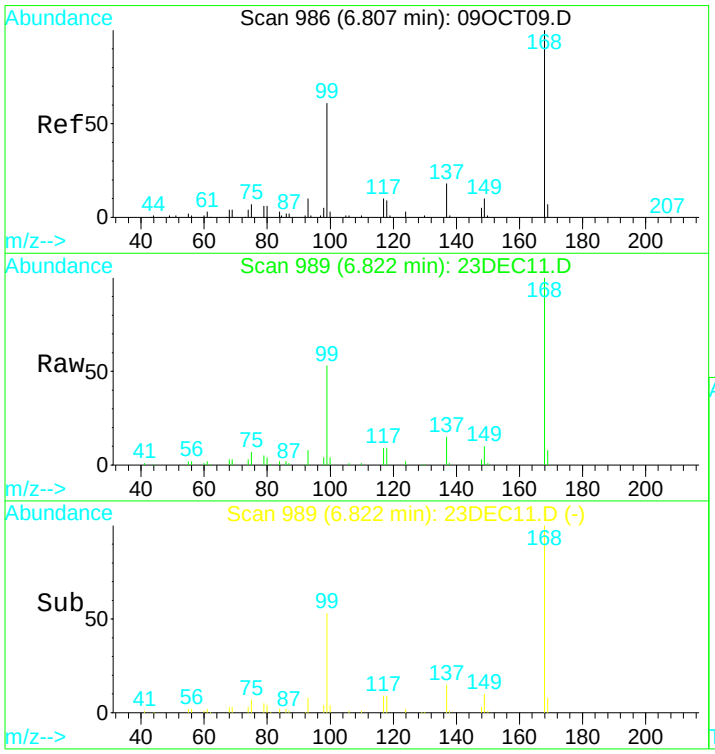
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC11.D Vial: 11
Acq On : 23 Dec 2021 8:40 am Operator: MGC
Sample : 2139227-07 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:54 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

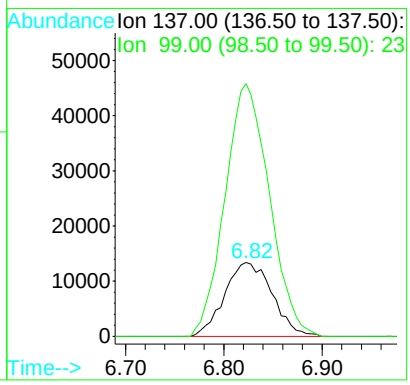


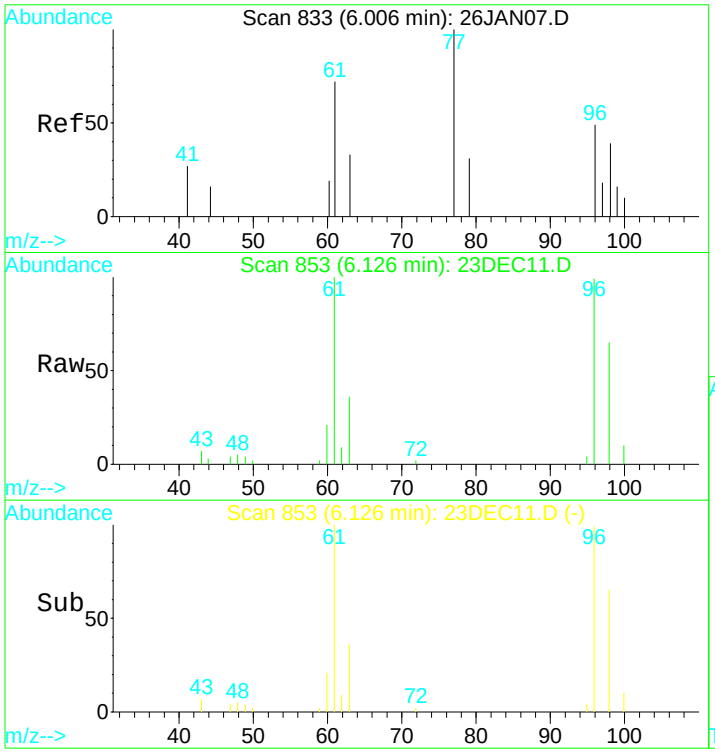


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.02 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:137 Resp: 45139

Ion	Ratio	Lower	Upper
137	100		
99	318.2	1431.5	2658.5#

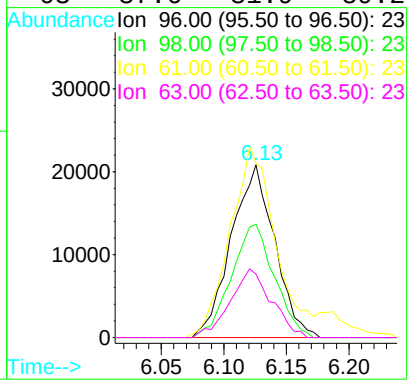


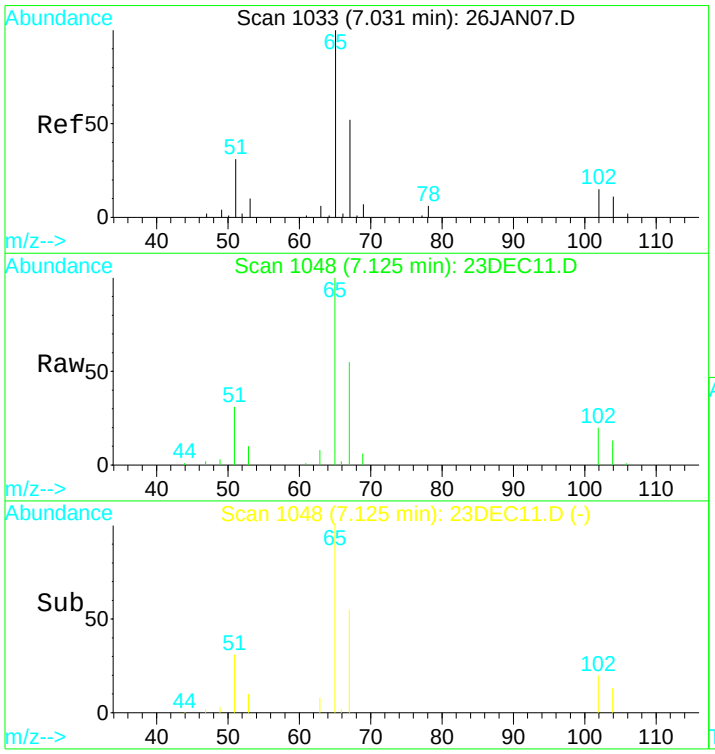


#17
Cis-1,2-dichloroethene
Concen: 4.06 ug/L
RT: 6.13 min Scan# 853
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 96 Resp: 50251

Ion	Ratio	Lower	Upper
96	100		
98	64.8	45.6	84.8
61	124.4	92.7	172.3
63	37.6	31.9	59.2

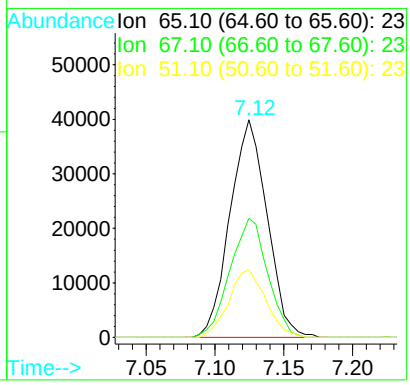


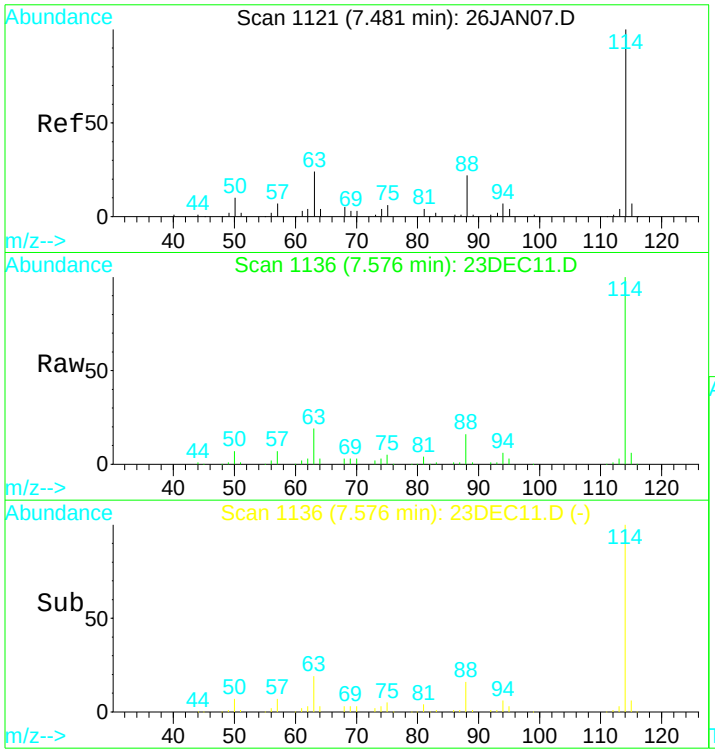


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 65 Resp: 74940

Ion	Ratio	Lower	Upper
65	100		
67	55.4	33.0	61.4
51	31.0	302.3	561.3#

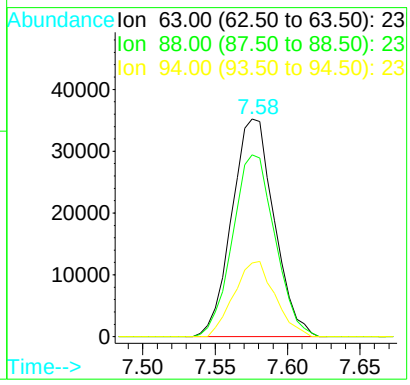


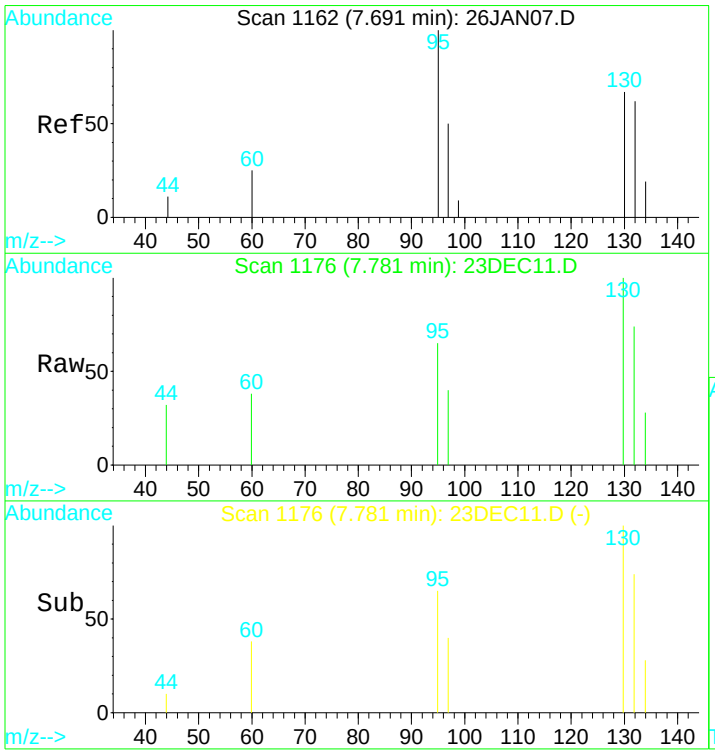


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 63 Resp: 71424

Ion	Ratio	Lower	Upper
63	100		
88	83.6	57.7	107.3
94	33.5	25.6	47.4

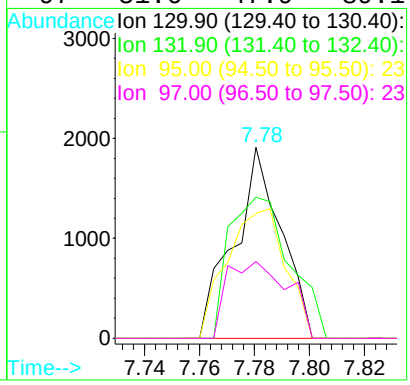


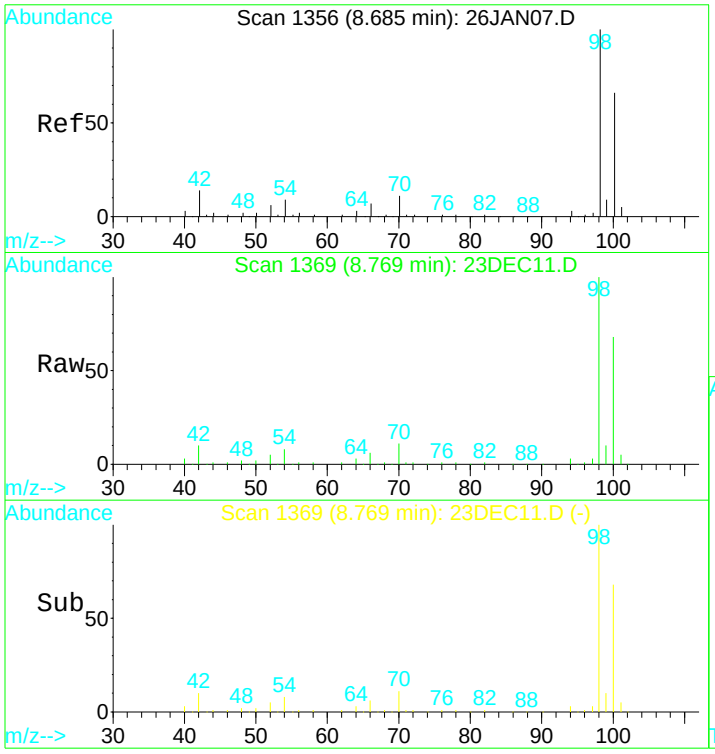


#27
Trichloroethene
Concen: 0.17 ug/L
RT: 7.78 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:130 Resp: 2281

Ion	Ratio	Lower	Upper
130	100		
132	95.4	67.5	125.4
95	84.2	72.9	135.3
97	51.6	47.9	89.1

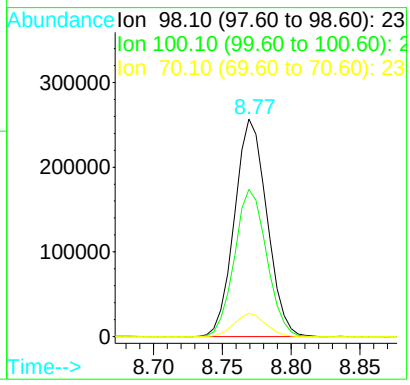


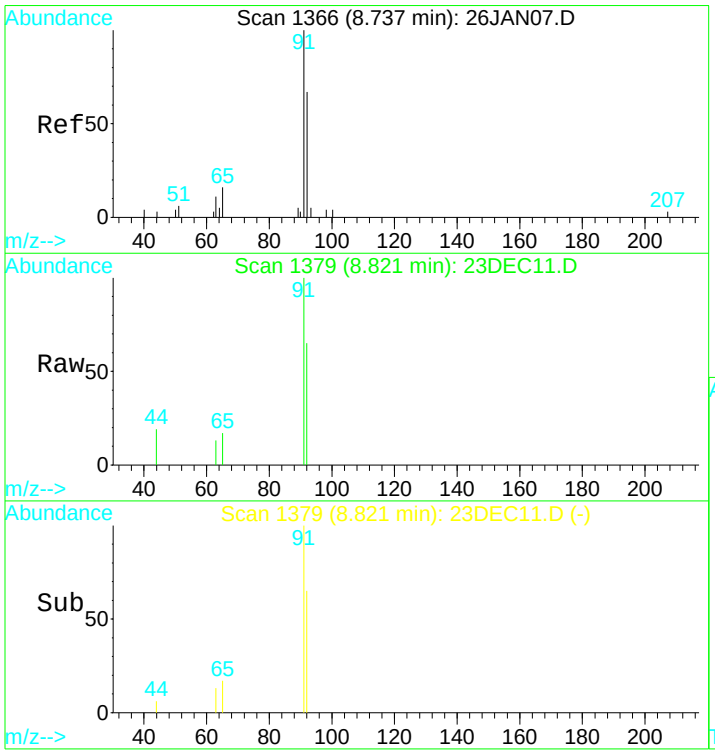


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 98 Resp: 421566

Ion	Ratio	Lower	Upper
98	100		
100	67.0	46.0	85.4
70	10.4	8.2	15.2

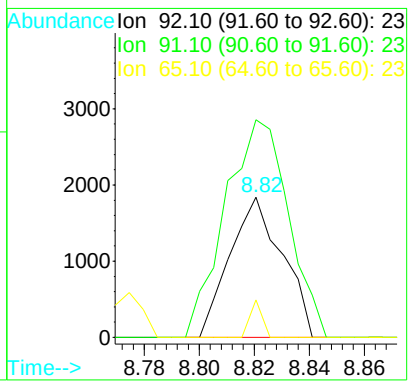


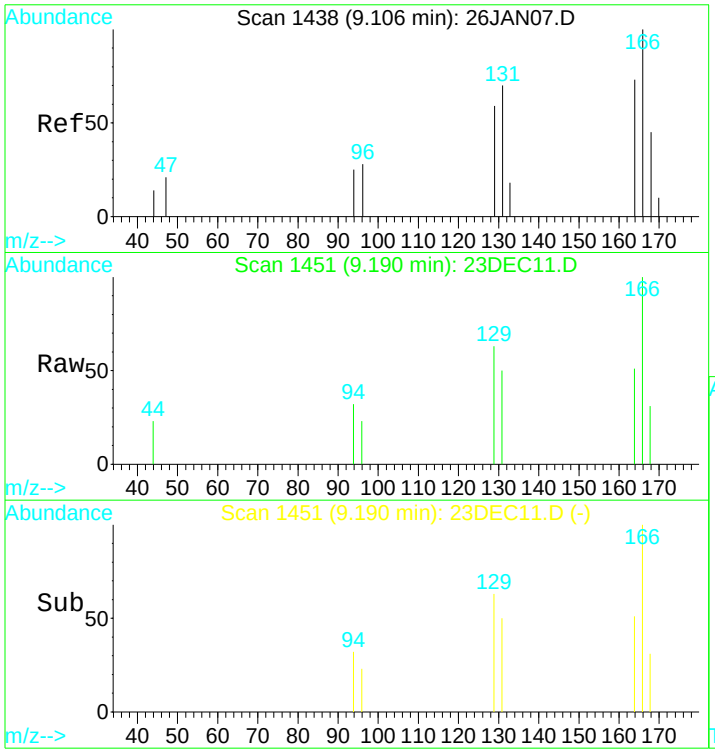


#34
Toluene
Concen: 0.08 ug/L
RT: 8.82 min Scan# 1379
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 92 Resp: 2442

Ion	Ratio	Lower	Upper
92	100		
91	186.7	108.6	201.8
65	6.2	14.8	27.4#

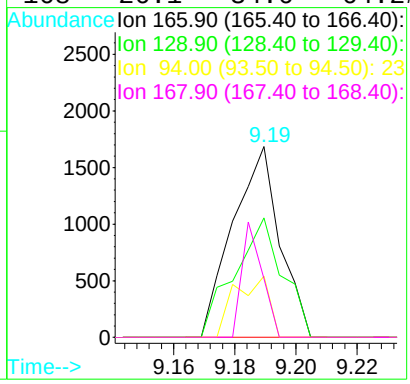


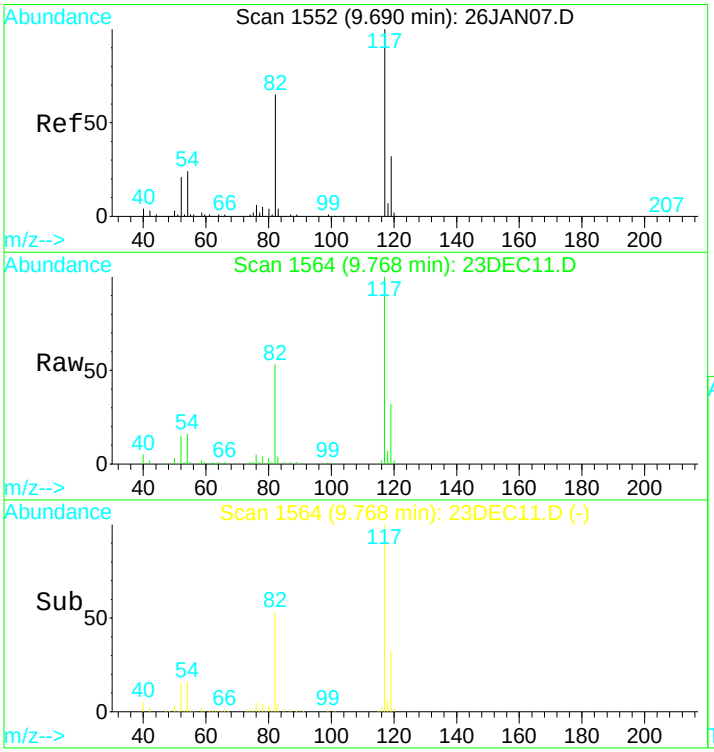


#37
Tetrachloroethene (PCE)
Concen: 0.12 ug/L
RT: 9.19 min Scan# 1451
Delta R.T. 0.01 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:166 Resp: 1807

Ion	Ratio	Lower	Upper
166	100		
129	64.4	48.4	89.8
94	23.5	32.1	59.7#
168	26.1	34.6	64.2#

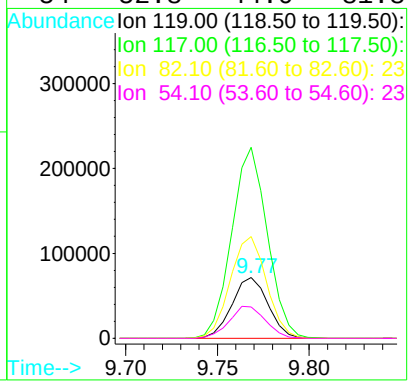


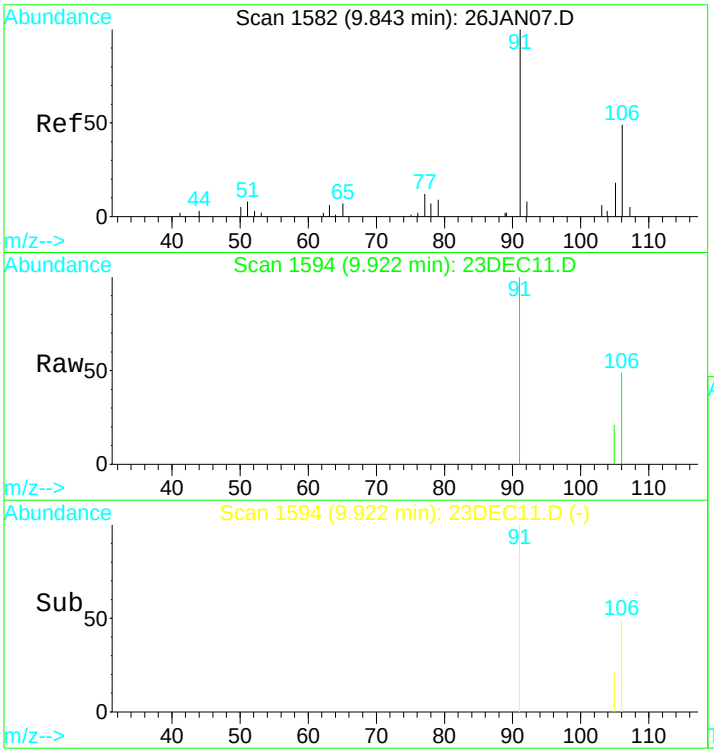


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:119 Resp: 98105

Ion	Ratio	Lower	Upper
119	100		
117	309.2	215.8	400.8
82	167.3	123.7	229.7
54	52.8	44.0	81.8

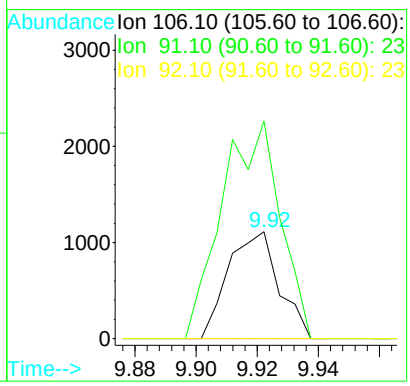


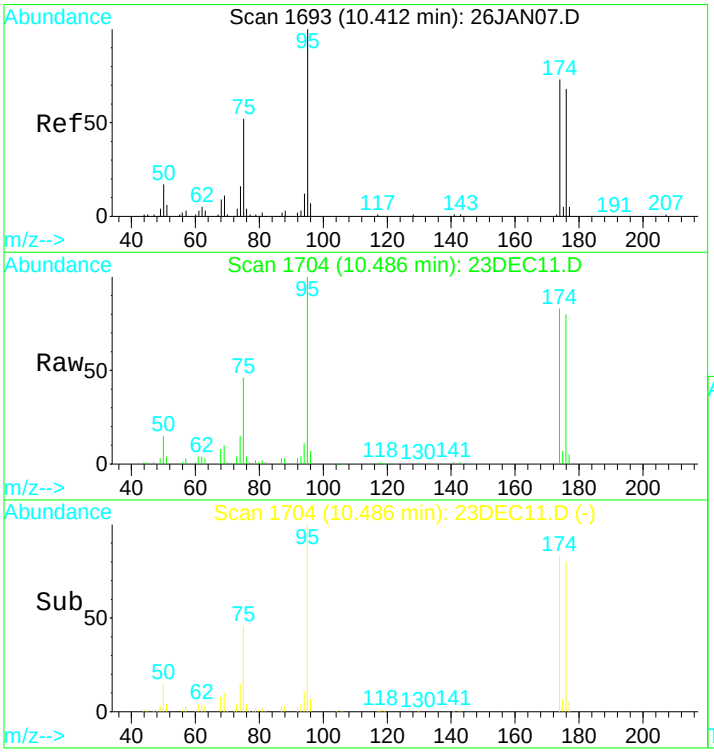


#45
P+m-Xylene
Concen: 0.06 ug/L
RT: 9.92 min Scan# 1594
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:106 Resp: 1282

Ion	Ratio	Lower	Upper
106	100		
91	234.0	119.1	221.1#
92	0.0	14.1	26.3#

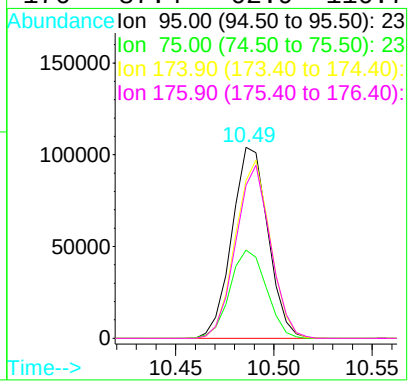




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 95 Resp: 132605

Ion	Ratio	Lower	Upper
95	100		
75	46.7	35.4	65.8
174	90.0	63.8	118.4
176	87.4	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC11.D Vial: 11
Acq On : 23 Dec 2021 8:40 am Operator: MGC
Sample : 2139227-07 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:55 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

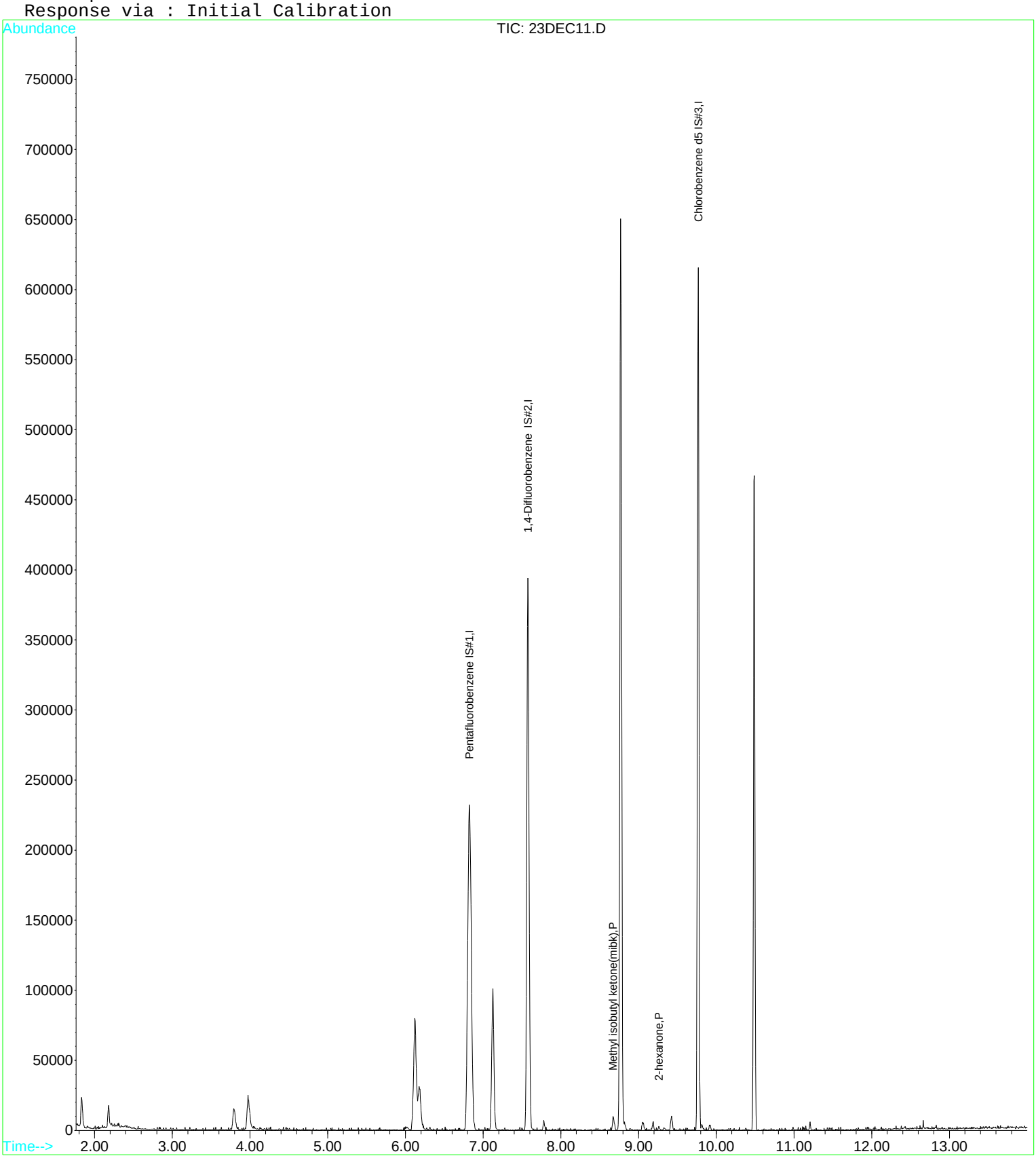
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45139	10.00	ug/L	0.01
29) 1,4-Difluorobenzene IS#2	7.58	63	71424	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	98105	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	6634	3.21	ug/L	92
35) 2-hexanone	9.27	43	1749	1.24	ug/L	99

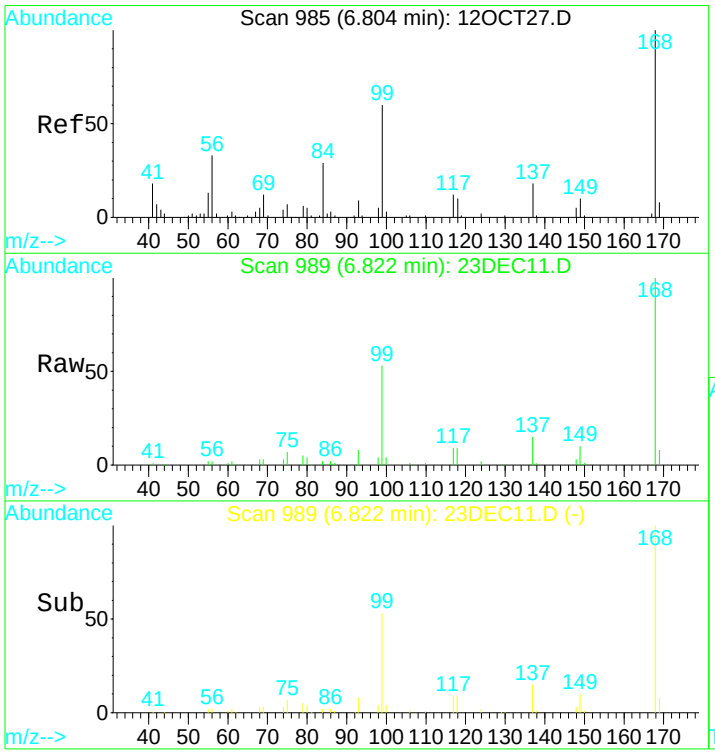
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC11.D Vial: 11
Acq On : 23 Dec 2021 8:40 am Operator: MGC
Sample : 2139227-07 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 9:55 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

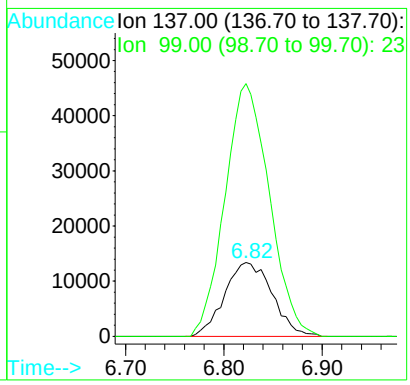


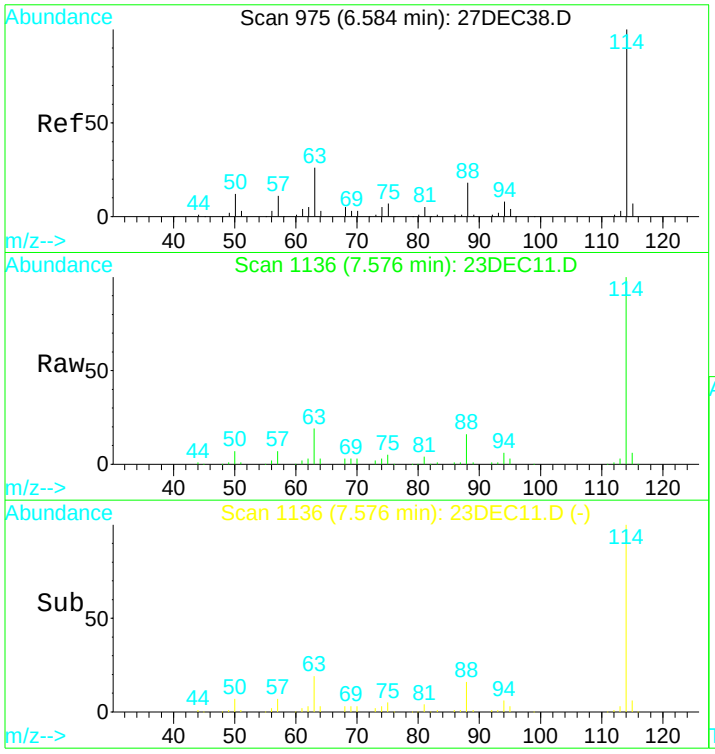


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:137 Resp: 45139

Ion	Ratio	Lower	Upper
137	100		
99	318.2	245.3	455.5

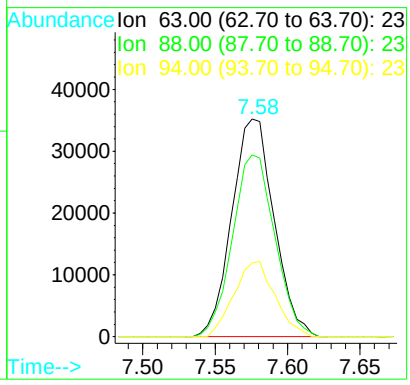


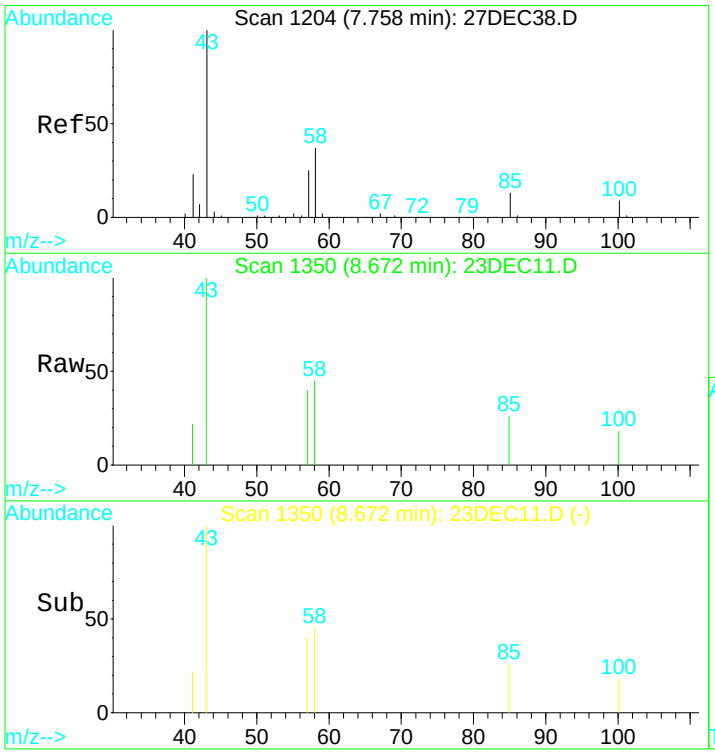


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 63 Resp: 71424

Ion	Ratio	Lower	Upper
63	100		
88	83.6	59.4	110.2
94	33.5	26.3	48.9

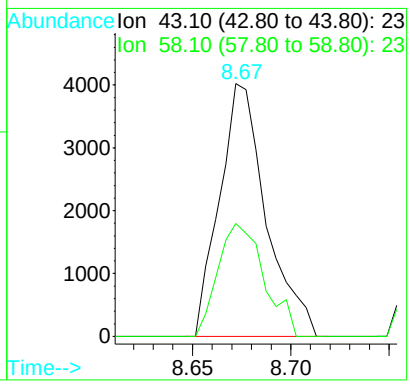


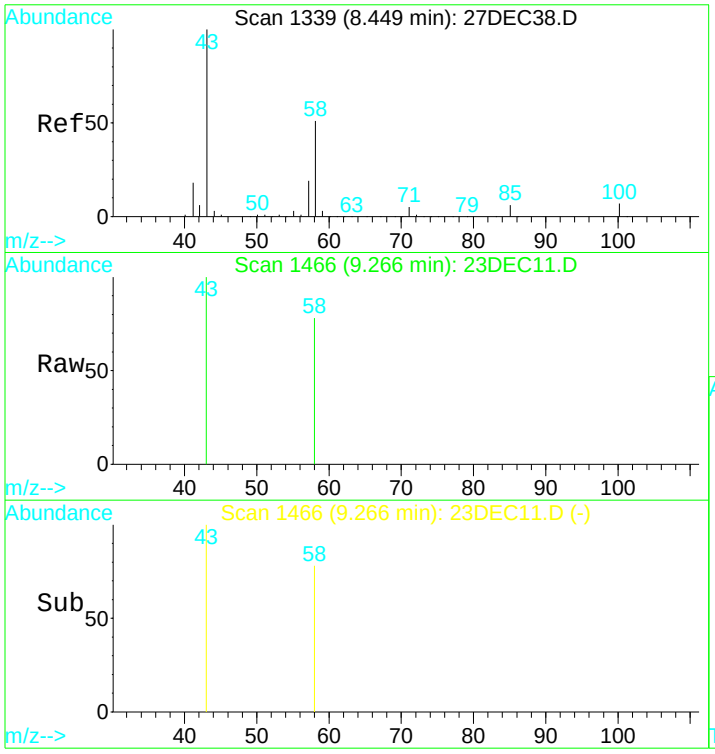


#33
Methyl isobutyl ketone(mibk)
Concen: 3.21 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 43 Resp: 6634

Ion	Ratio	Lower	Upper
43	100		
58	44.1	27.4	50.8

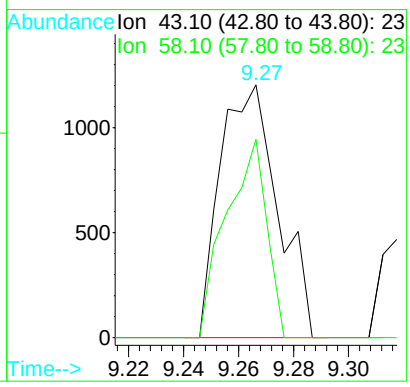


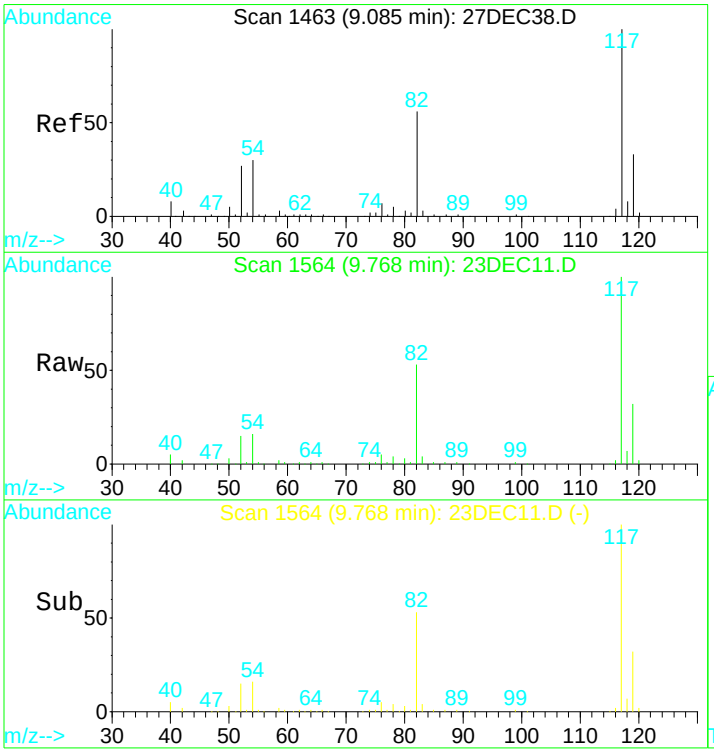


#35
2-hexanone
Concen: 1.24 ug/L
RT: 9.27 min Scan# 1466
Delta R.T. 0.01 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion: 43 Resp: 1749

Ion	Ratio	Lower	Upper
43	100		
58	55.2	38.1	70.9

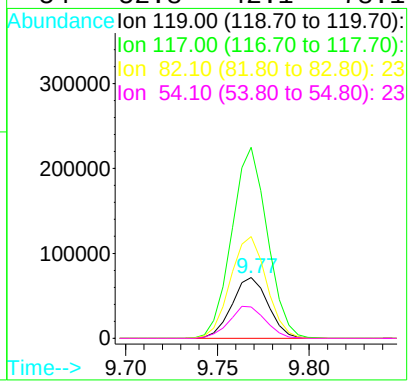




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC11.D
Acq: 23 Dec 2021 8:40 am

Tgt Ion:119 Resp: 98105

Ion	Ratio	Lower	Upper
119	100		
117	309.2	216.5	402.1
82	167.3	123.3	228.9
54	52.8	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC16.D Vial: 16
Acq On : 23 Dec 2021 10:42 am Operator: MGC
Sample : 2139227-08 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:57 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

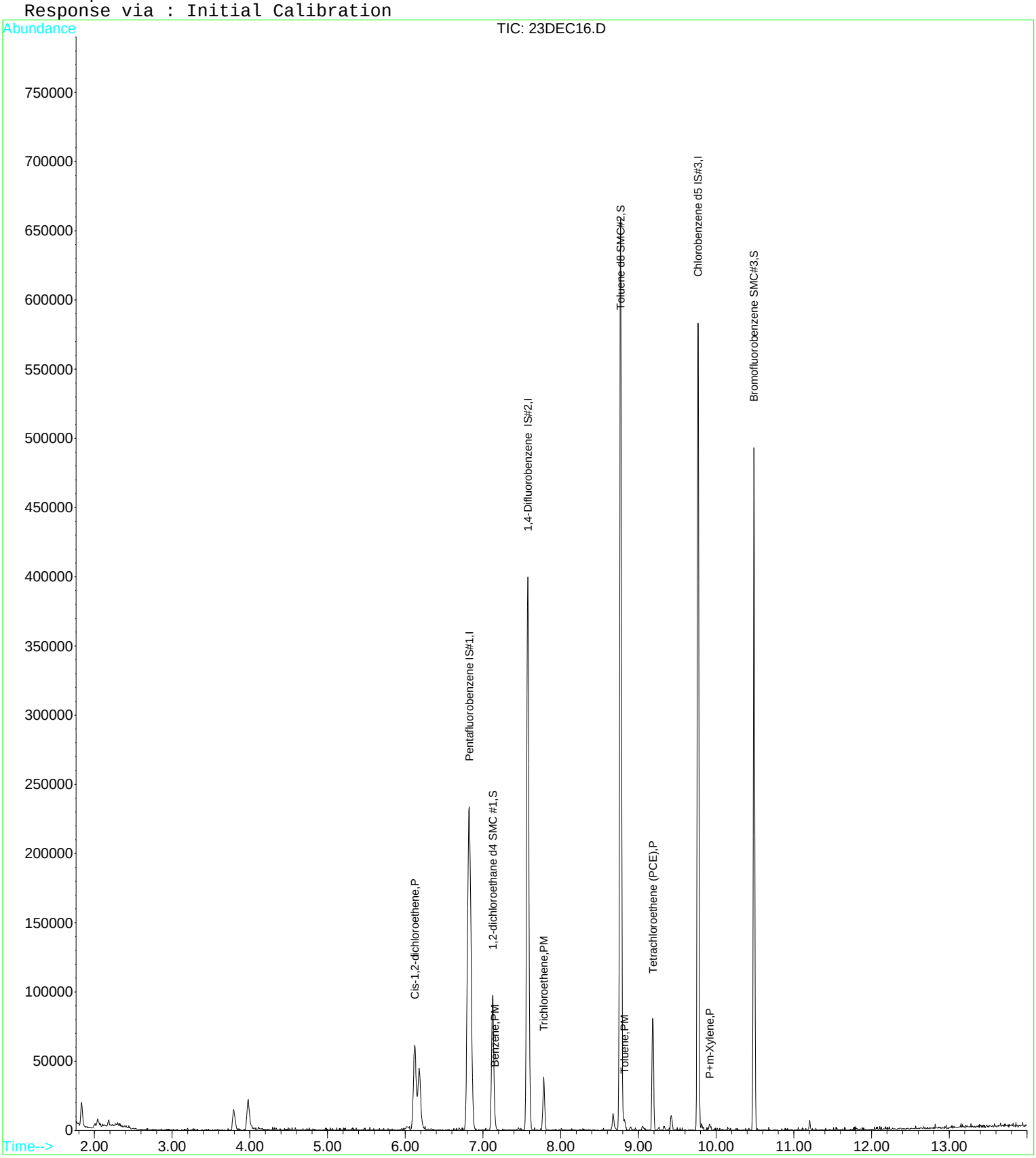
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	44679	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.57	63	69011	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	97917	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	74807	8.87	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.70%			
33) Toluene d8 SMC#2	8.77	98	420585	10.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.90%			
51) Bromofluorobenzene SMC#3	10.49	95	133208	9.11	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.10%			
Target Compounds						Qvalue
17) Cis-1,2-dichloroethene	6.12	96	41511	3.39	ug/L	95
25) Benzene	7.16	78	3611	0.08	ug/L #	1
27) Trichloroethene	7.78	130	12380	0.96	ug/L	98
34) Toluene	8.82	92	3808	0.13	ug/L	98
37) Tetrachloroethene (PCE)	9.19	166	23300	1.65	ug/L	95
45) P+m-Xylene	9.91	106	1311	0.06	ug/L #	48

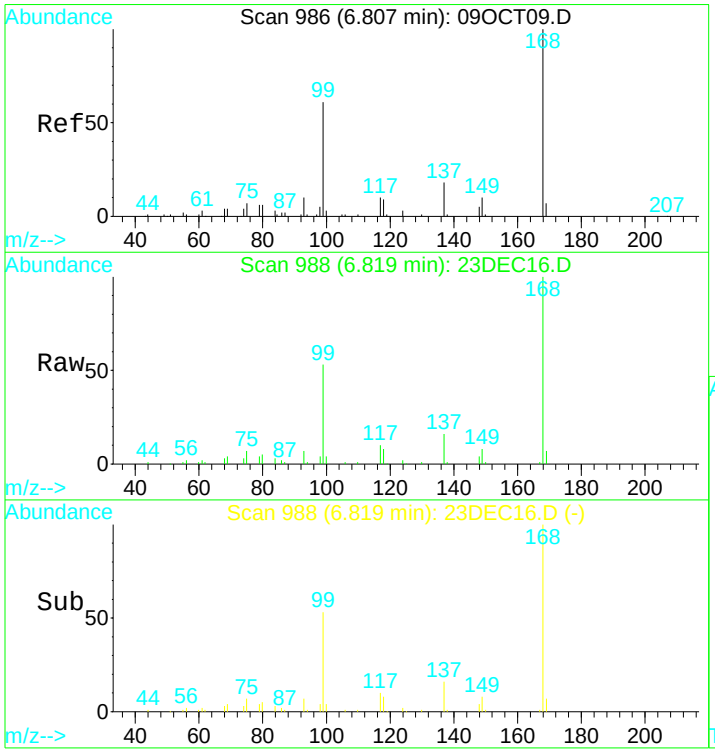
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC16.D Vial: 16
Acq On : 23 Dec 2021 10:42 am Operator: MGC
Sample : 2139227-08 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:57 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

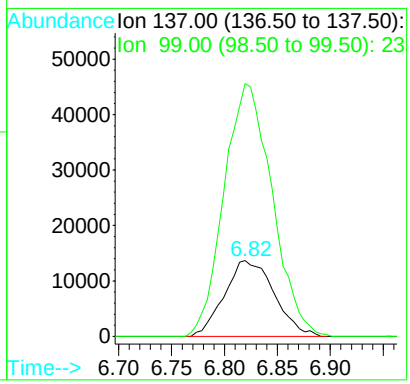


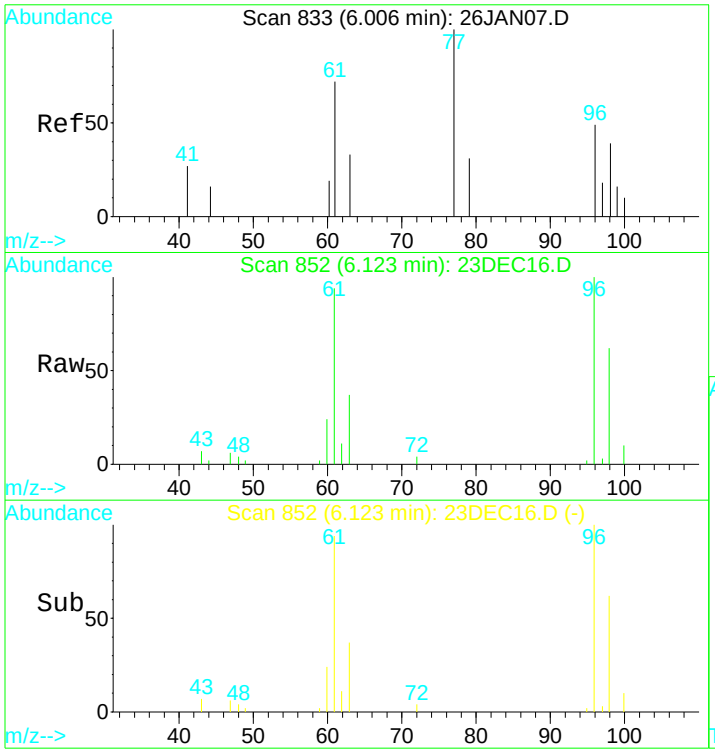


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 988
Delta R.T. 0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:137 Resp: 44679

Ion	Ratio	Lower	Upper
137	100		
99	321.5	1431.5	2658.5#

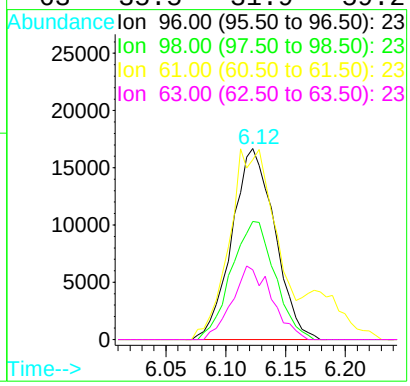


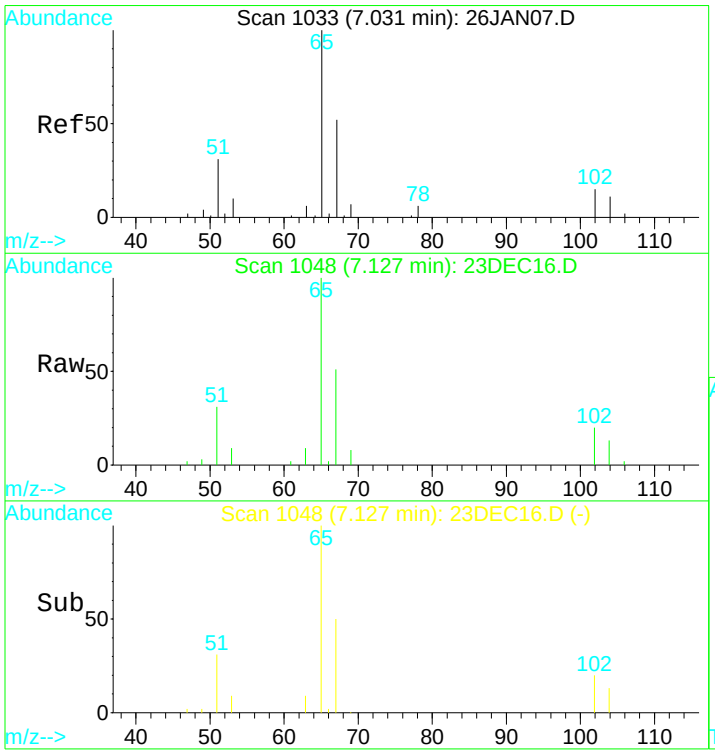


#17
Cis-1,2-dichloroethene
Concen: 3.39 ug/L
RT: 6.12 min Scan# 852
Delta R.T. -0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 96 Resp: 41511

Ion	Ratio	Lower	Upper
96	100		
98	62.7	45.6	84.8
61	129.0	92.7	172.3
63	35.5	31.9	59.2

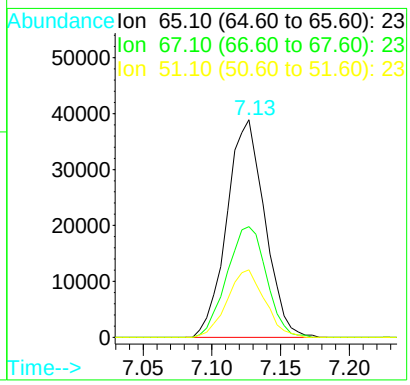


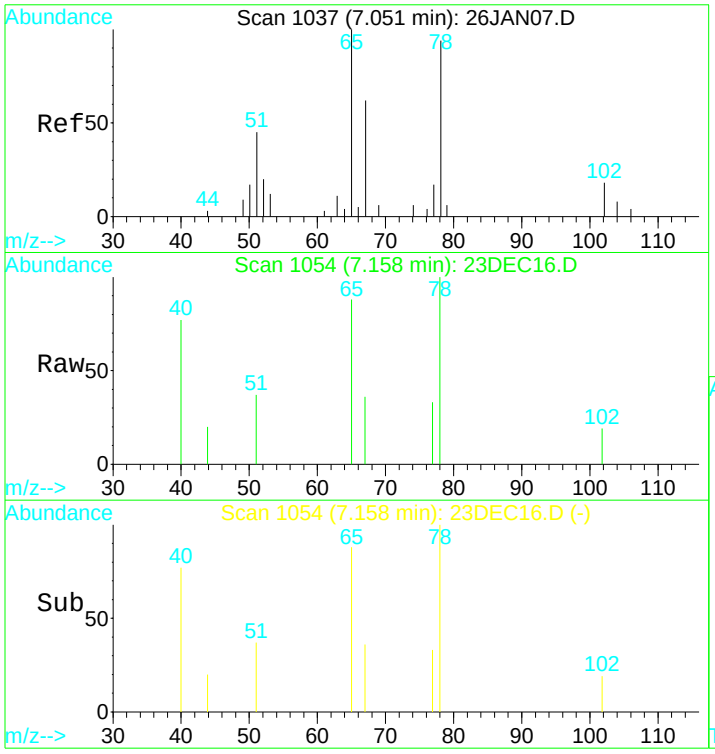


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 65 Resp: 74807

Ion	Ratio	Lower	Upper
65	100		
67	52.9	33.0	61.4
51	30.7	302.3	561.3#

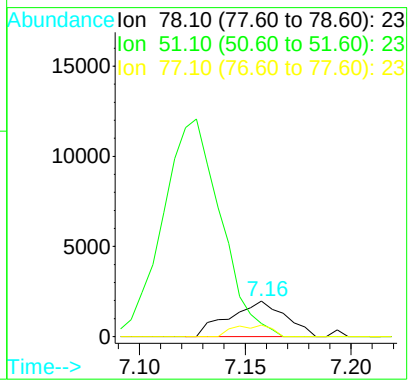


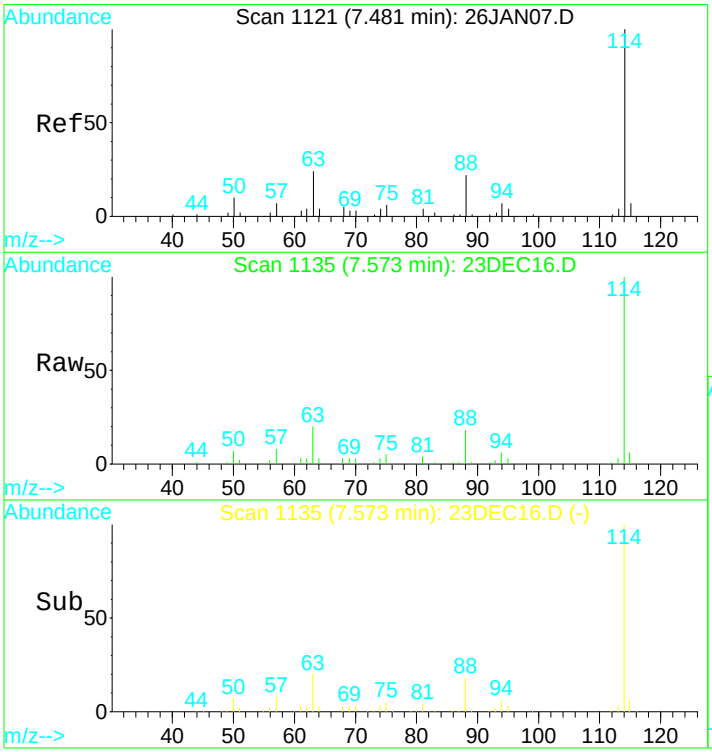


#25
Benzene
Concen: 0.08 ug/L
RT: 7.16 min Scan# 1054
Delta R.T. 0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 78 Resp: 3611

Ion	Ratio	Lower	Upper
78	100		
51	635.4	12.7	23.5#
77	21.9	17.6	32.8

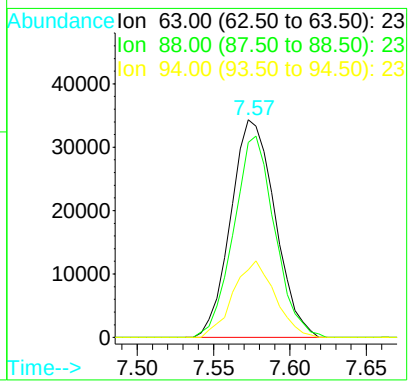


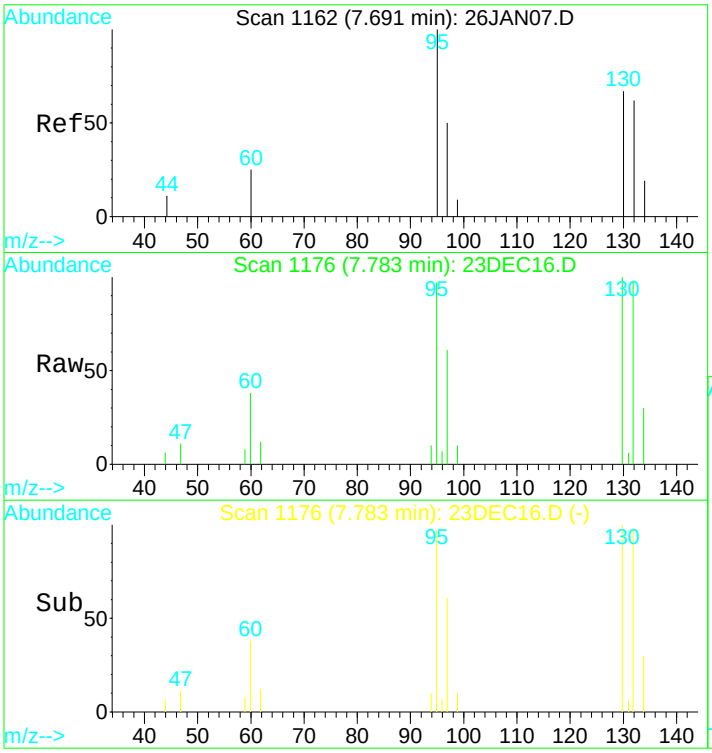


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 63 Resp: 69011

Ion	Ratio	Lower	Upper
63	100		
88	86.0	57.7	107.3
94	33.2	25.6	47.4

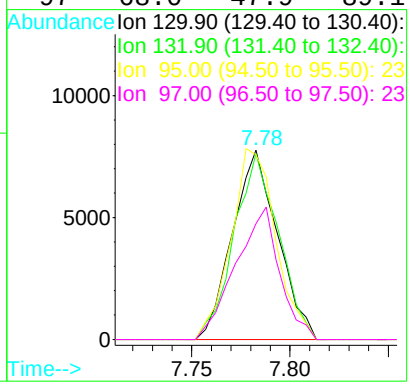


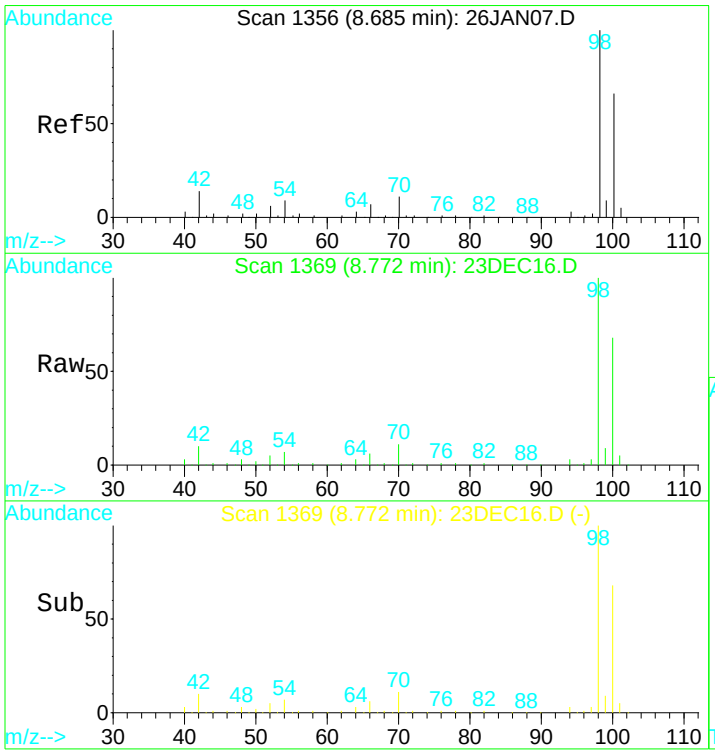


#27
Trichloroethene
Concen: 0.96 ug/L
RT: 7.78 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:130 Resp: 12380

Ion	Ratio	Lower	Upper
130	100		
132	97.0	67.5	125.4
95	99.7	72.9	135.3
97	68.0	47.9	89.1

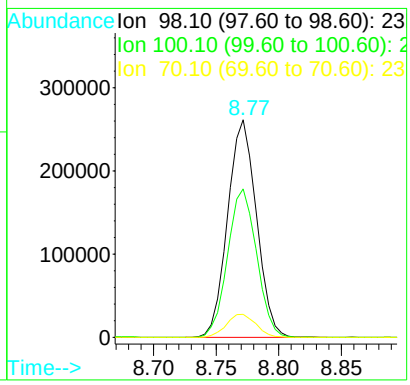


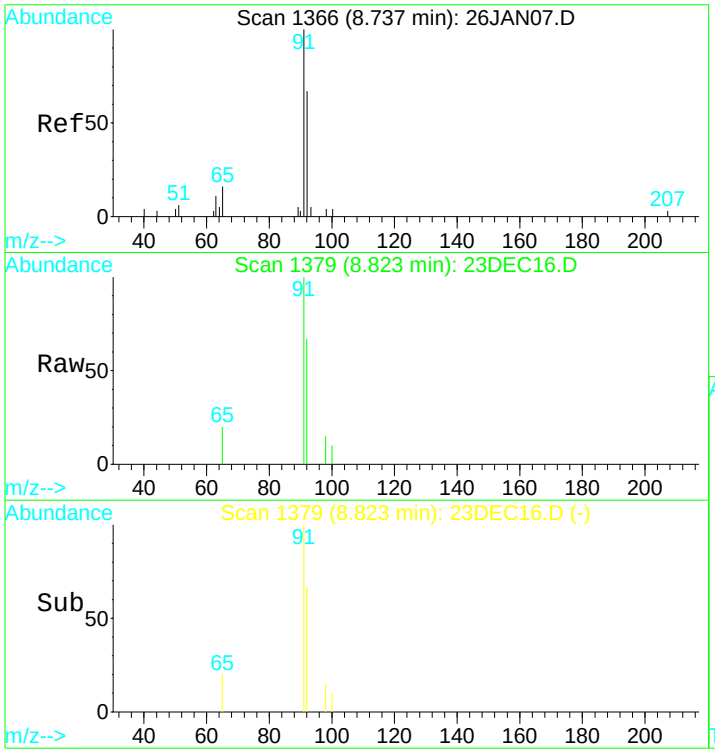


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 98 Resp: 420585

Ion	Ratio	Lower	Upper
98	100		
100	68.5	46.0	85.4
70	10.9	8.2	15.2

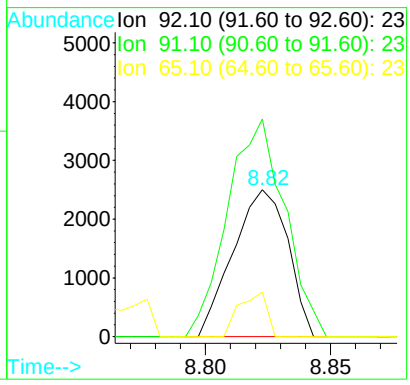


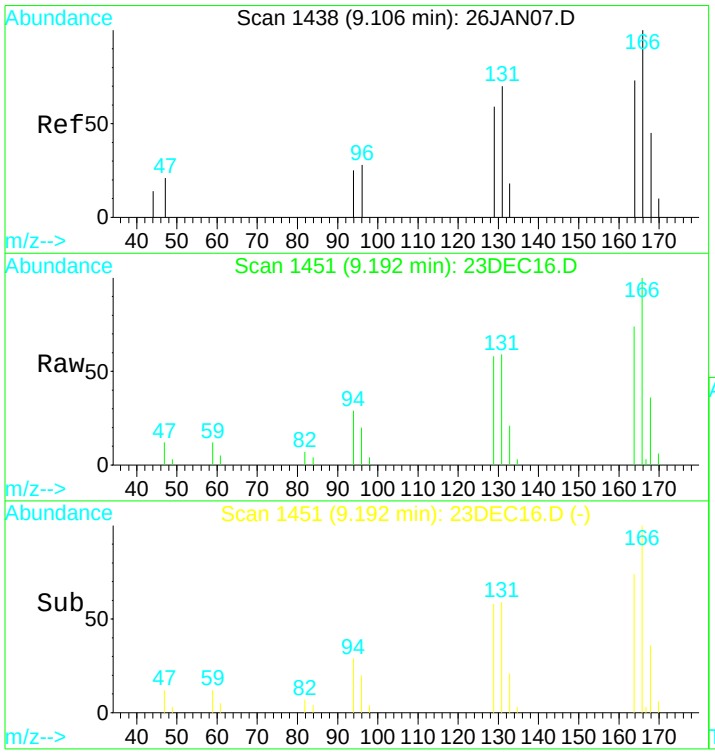


#34
Toluene
Concen: 0.13 ug/L
RT: 8.82 min Scan# 1379
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 92 Resp: 3808

Ion	Ratio	Lower	Upper
92	100		
91	154.9	108.6	201.8
65	15.4	14.8	27.4

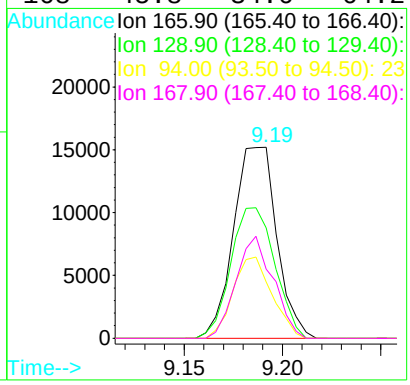


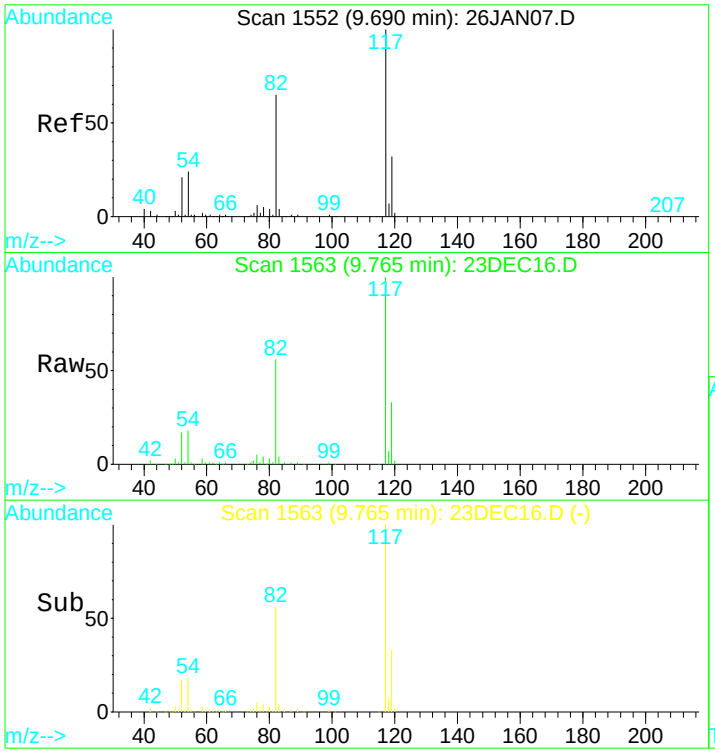


#37
Tetrachloroethene (PCE)
Concen: 1.65 ug/L
RT: 9.19 min Scan# 1451
Delta R.T. 0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:166 Resp: 23300

Ion	Ratio	Lower	Upper
166	100		
129	69.4	48.4	89.8
94	38.2	32.1	59.7
168	45.8	34.6	64.2

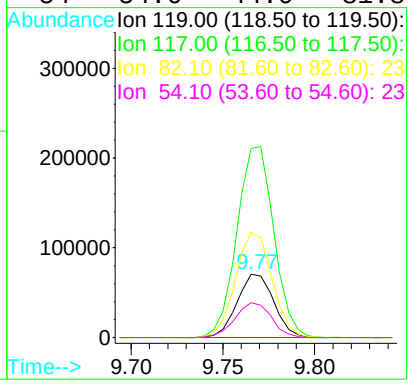


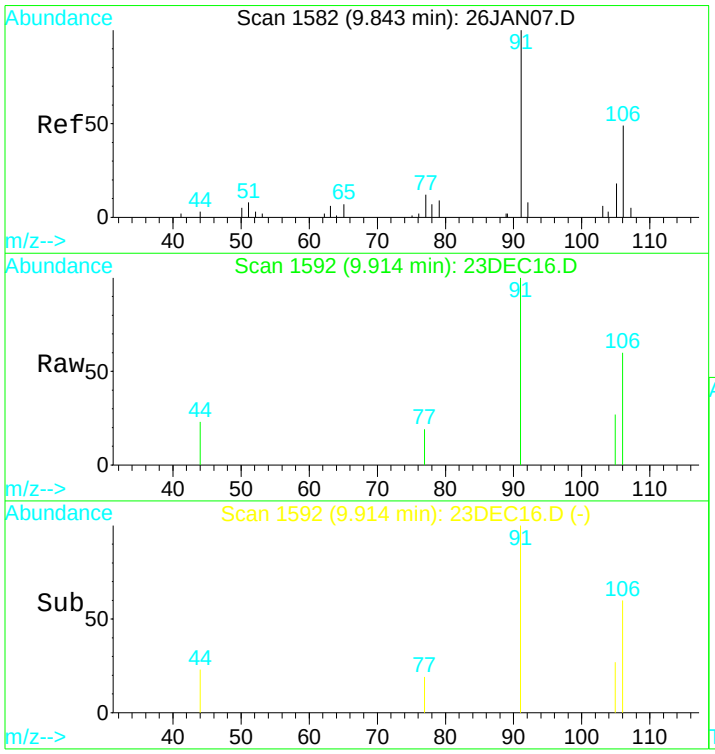


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:119 Resp: 97917

Ion	Ratio	Lower	Upper
119	100		
117	304.4	215.8	400.8
82	165.8	123.7	229.7
54	54.6	44.0	81.8

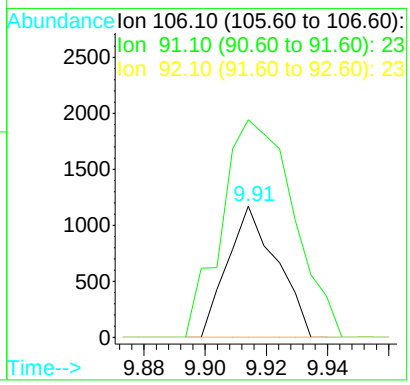


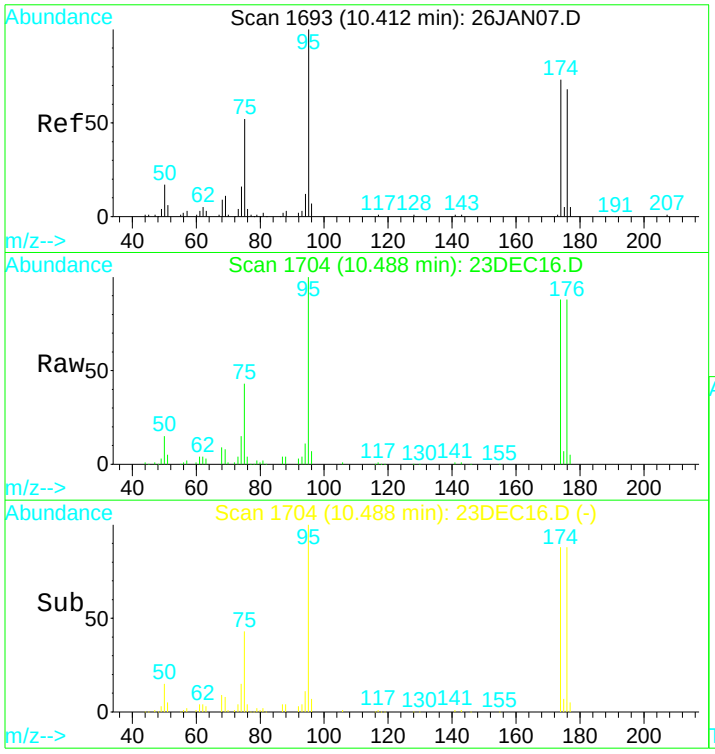


#45
P+m-Xylene
Concen: 0.06 ug/L
RT: 9.91 min Scan# 1592
Delta R.T. -0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:106 Resp: 1311

Ion	Ratio	Lower	Upper
106	100		
91	242.3	119.1	221.1#
92	0.0	14.1	26.3#

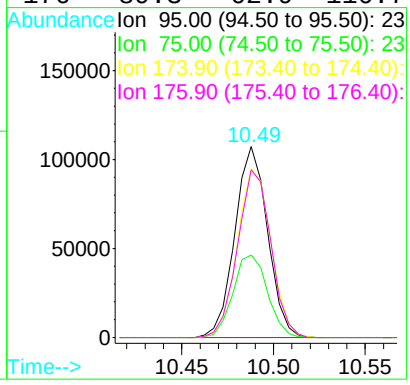




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 95 Resp: 133208

Ion	Ratio	Lower	Upper
95	100		
75	45.5	35.4	65.8
174	90.8	63.8	118.4
176	89.3	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC16.D Vial: 16
Acq On : 23 Dec 2021 10:42 am Operator: MGC
Sample : 2139227-08 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:58 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

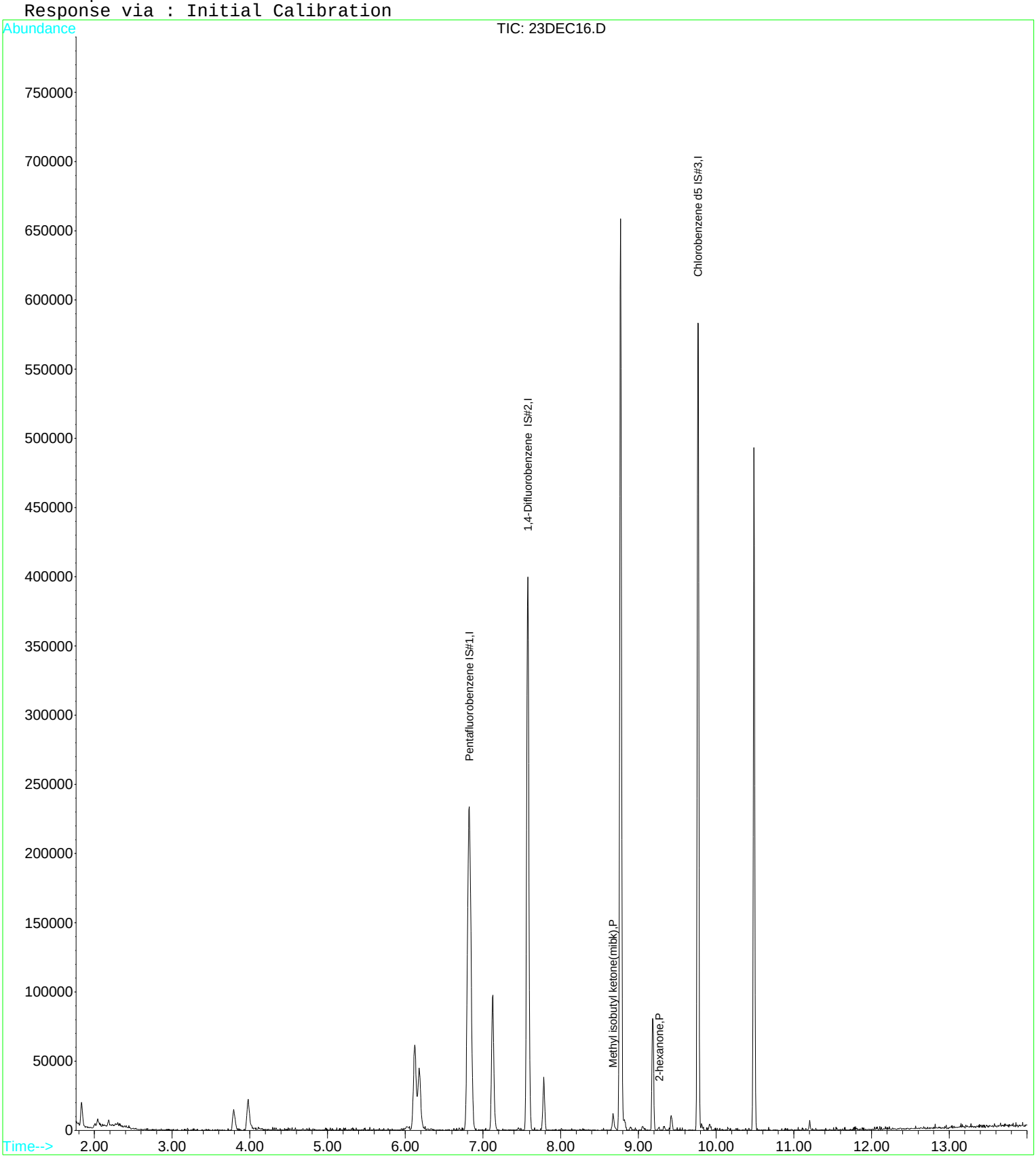
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	44679	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	69011	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	97917	10.00	ug/L		0.00
Target Compounds							Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	8587	4.30	ug/L		100
35) 2-hexanone	9.26	43	1614	1.18	ug/L	#	70

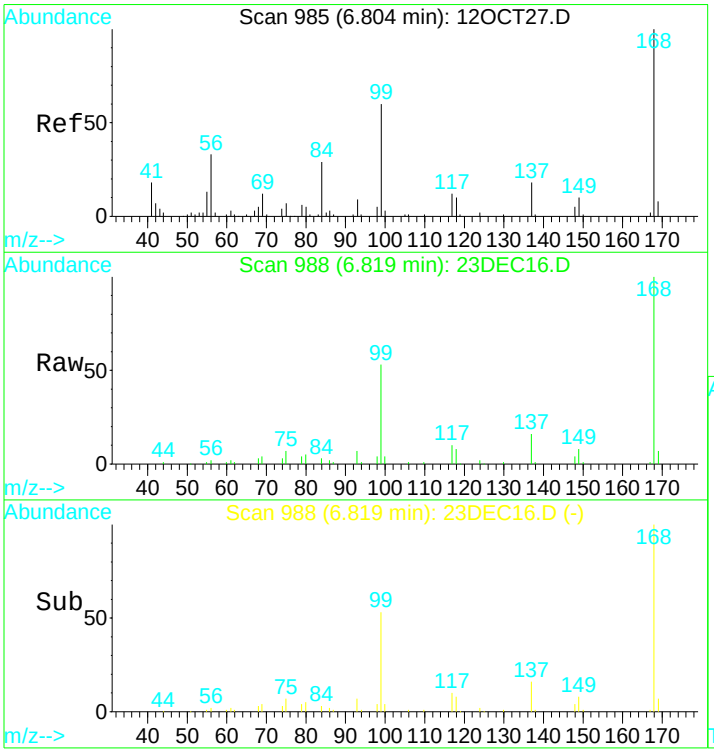
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC16.D Vial: 16
Acq On : 23 Dec 2021 10:42 am Operator: MGC
Sample : 2139227-08 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:58 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

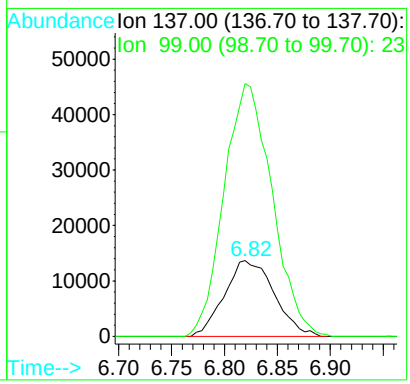


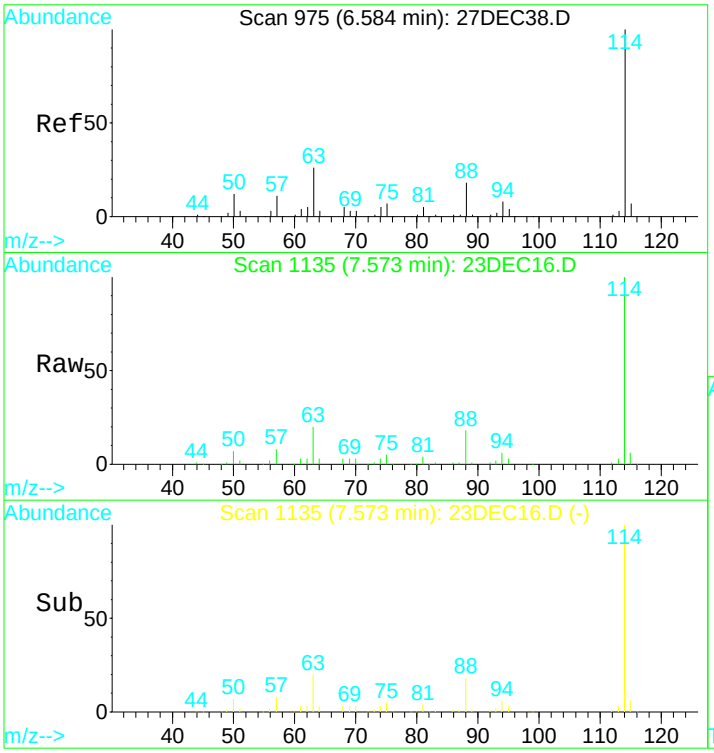


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 988
Delta R.T. 0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:137 Resp: 44679

Ion	Ratio	Lower	Upper
137	100		
99	321.5	245.3	455.5

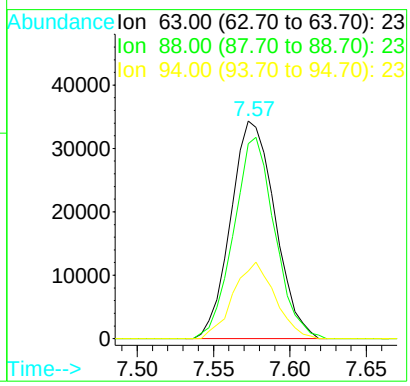


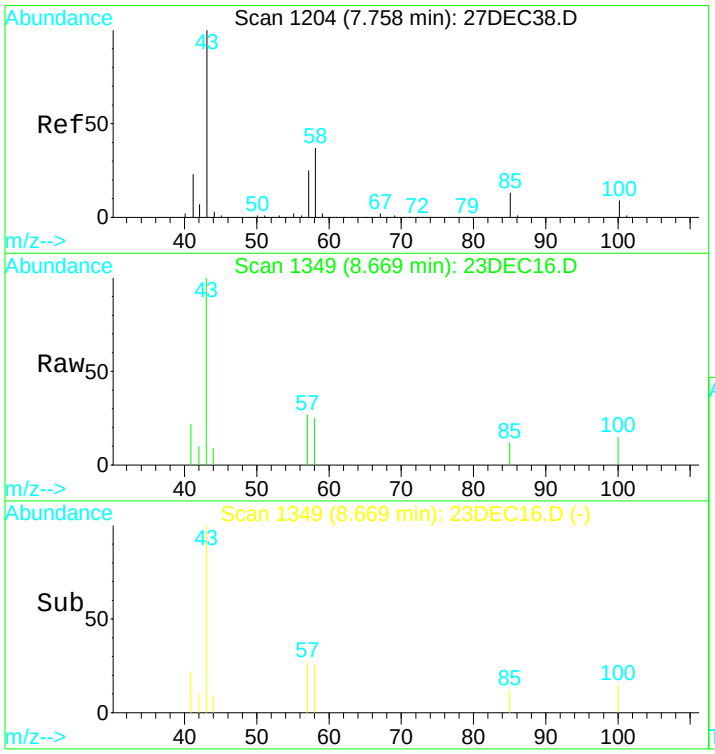


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 63 Resp: 69011

Ion	Ratio	Lower	Upper
63	100		
88	86.0	59.4	110.2
94	33.2	26.3	48.9

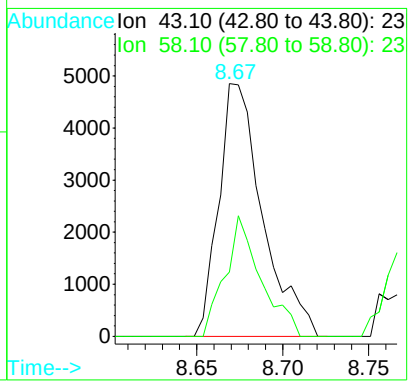


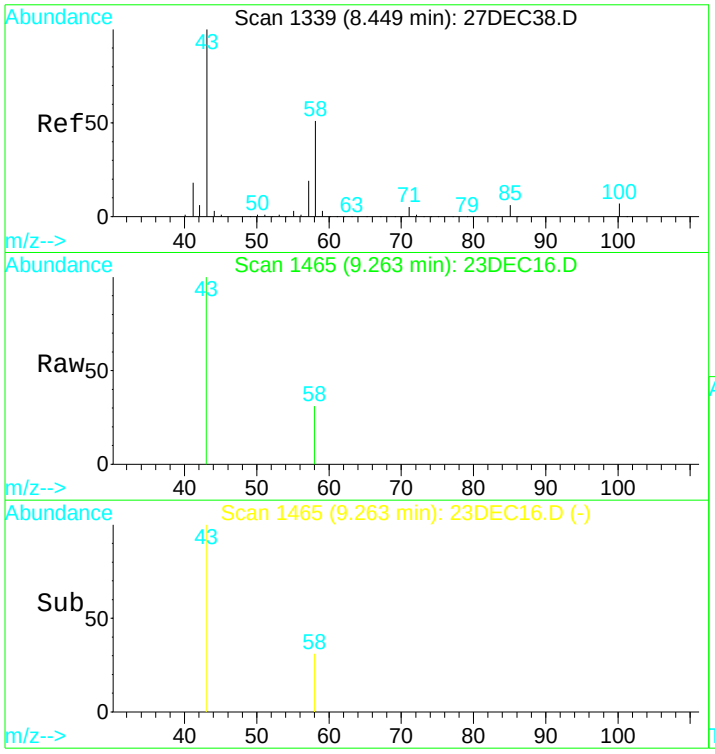


#33
Methyl isobutyl ketone(mibk)
Concen: 4.30 ug/L
RT: 8.67 min Scan# 1349
Delta R.T. -0.01 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 43 Resp: 8587

Ion	Ratio	Lower	Upper
43	100		
58	38.9	27.4	50.8

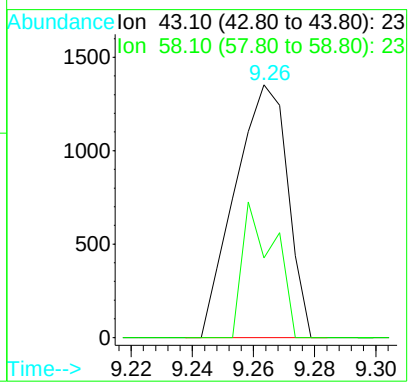


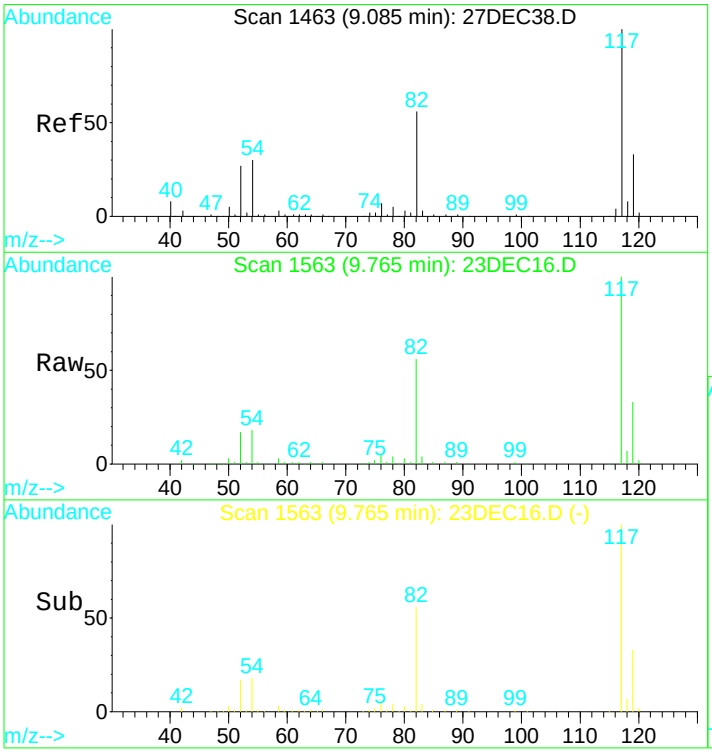


#35
2-hexanone
Concen: 1.18 ug/L
RT: 9.26 min Scan# 1465
Delta R.T. 0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion: 43 Resp: 1614

Ion	Ratio	Lower	Upper
43	100		
58	32.7	38.1	70.9#

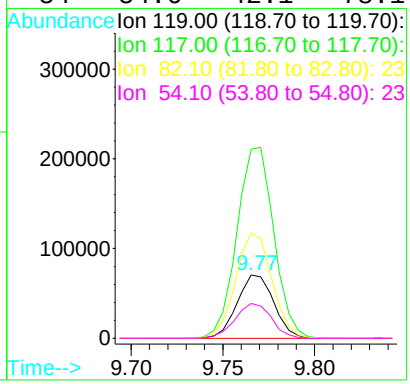




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC16.D
Acq: 23 Dec 2021 10:42 am

Tgt Ion:119 Resp: 97917

Ion	Ratio	Lower	Upper
119	100		
117	304.4	216.5	402.1
82	165.8	123.3	228.9
54	54.6	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC12.D Vial: 12
Acq On : 23 Dec 2021 9:05 am Operator: MGC
Sample : 2139227-09 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:15 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

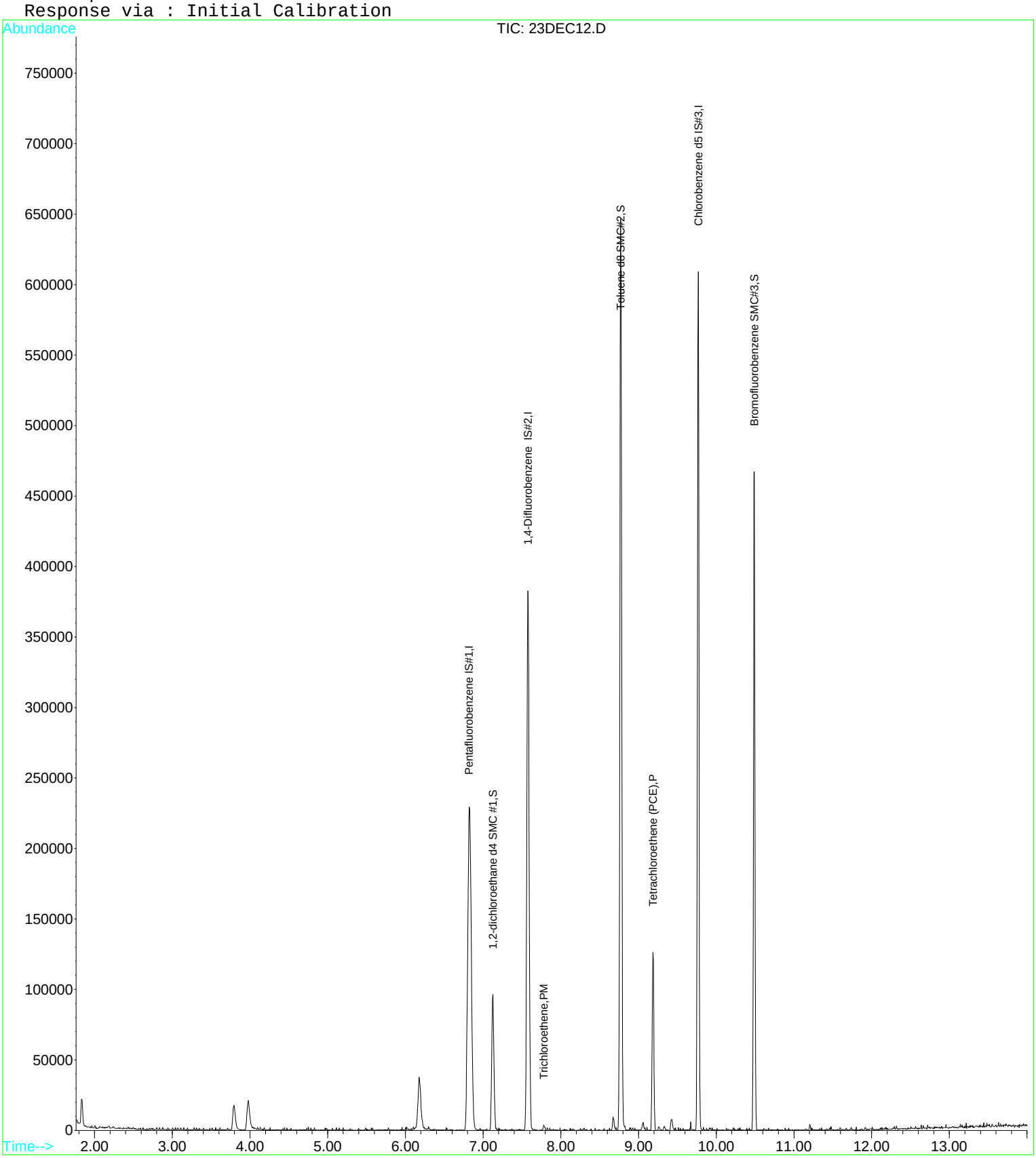
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	44521	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.58	63	70308	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	97736	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	73950	8.80	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.00%			
33) Toluene d8 SMC#2	8.77	98	422775	10.84	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.40%			
51) Bromofluorobenzene SMC#3	10.49	95	131972	9.04	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.40%			
Target Compounds						Qvalue
27) Trichloroethene	7.78	130	1296	0.10	ug/L	95
37) Tetrachloroethene (PCE)	9.18	166	34642	2.41	ug/L	97

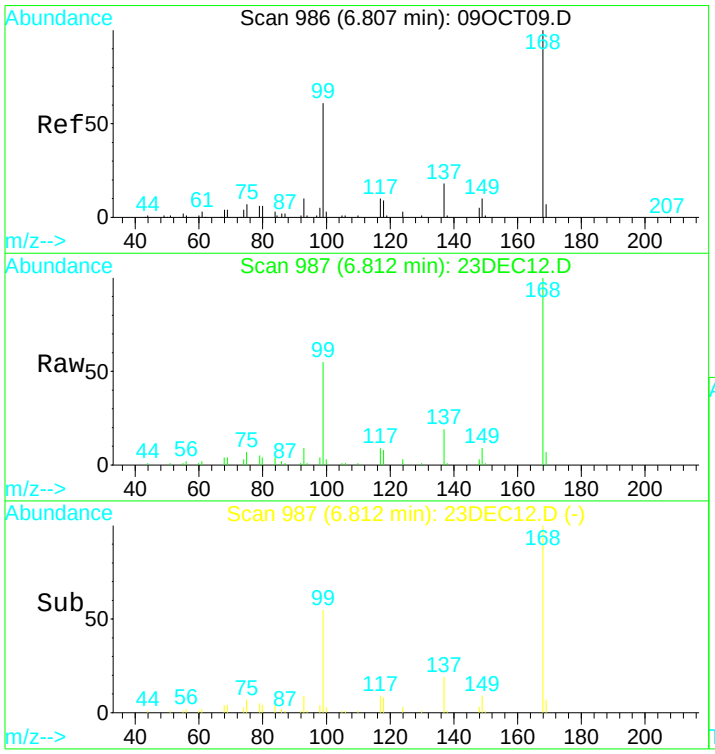
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC12.D Vial: 12
Acq On : 23 Dec 2021 9:05 am Operator: MGC
Sample : 2139227-09 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:15 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

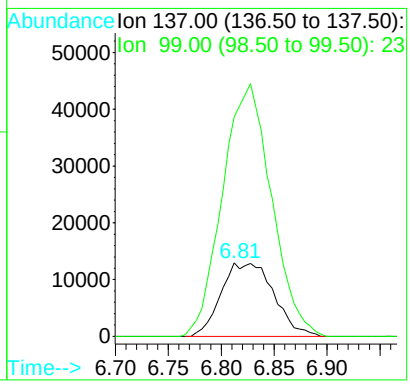


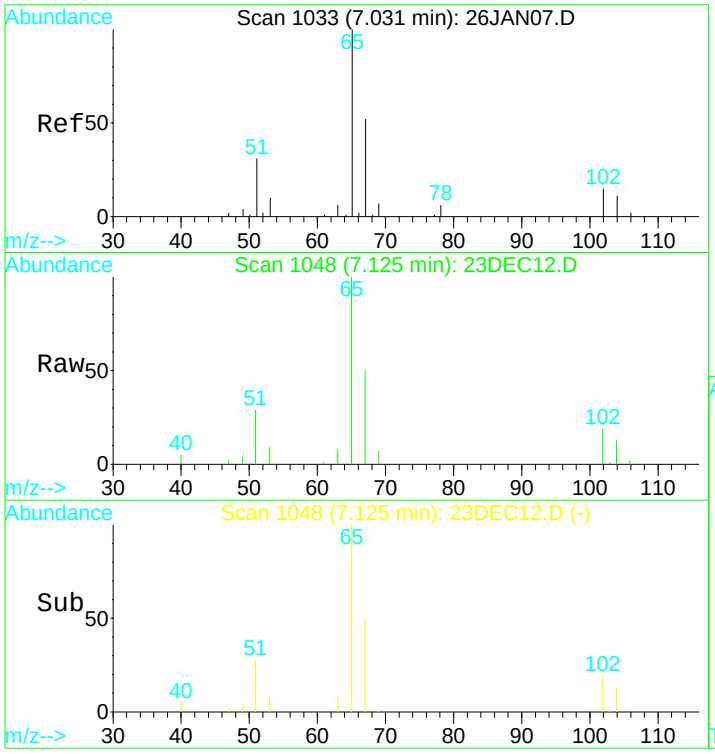


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.81 min Scan# 987
Delta R.T. 0.01 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:137 Resp: 44521

Ion	Ratio	Lower	Upper
137	100		
99	321.3	1431.5	2658.5#

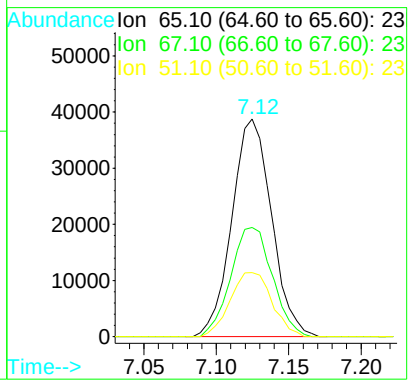


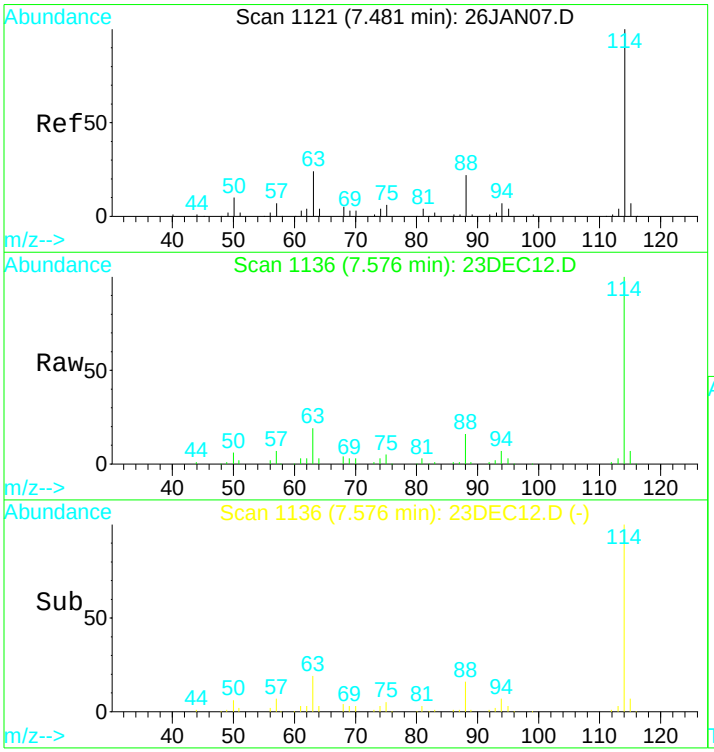


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 65 Resp: 73950

Ion	Ratio	Lower	Upper
65	100		
67	52.5	33.0	61.4
51	30.9	302.3	561.3#

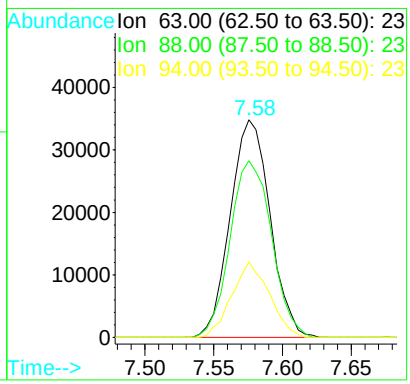


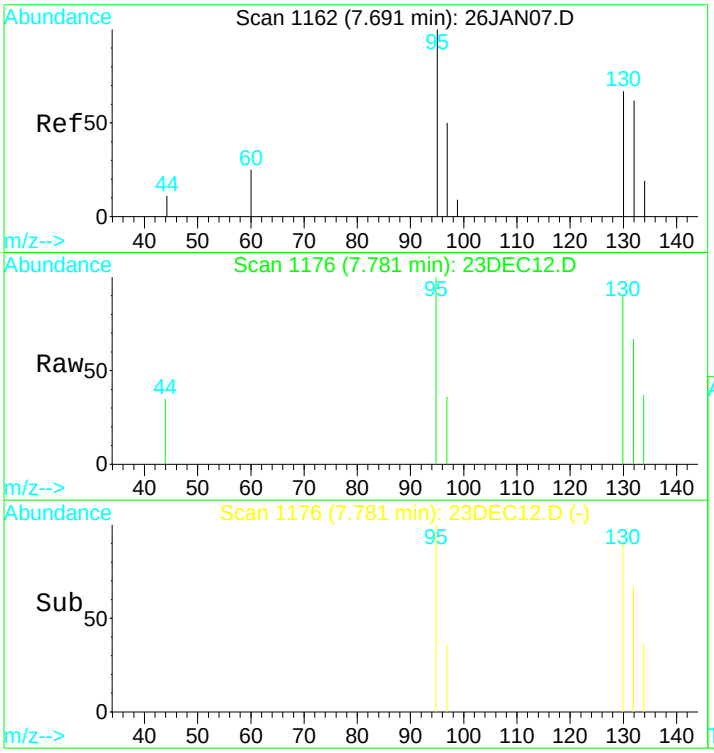


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 63 Resp: 70308

Ion	Ratio	Lower	Upper
63	100		
88	84.3	57.7	107.3
94	32.7	25.6	47.4

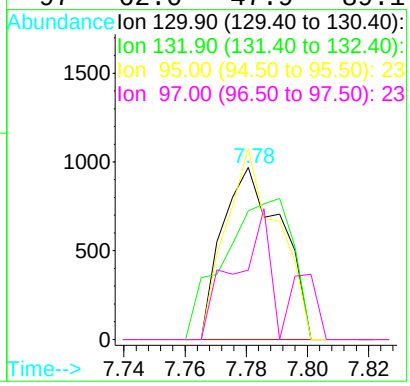


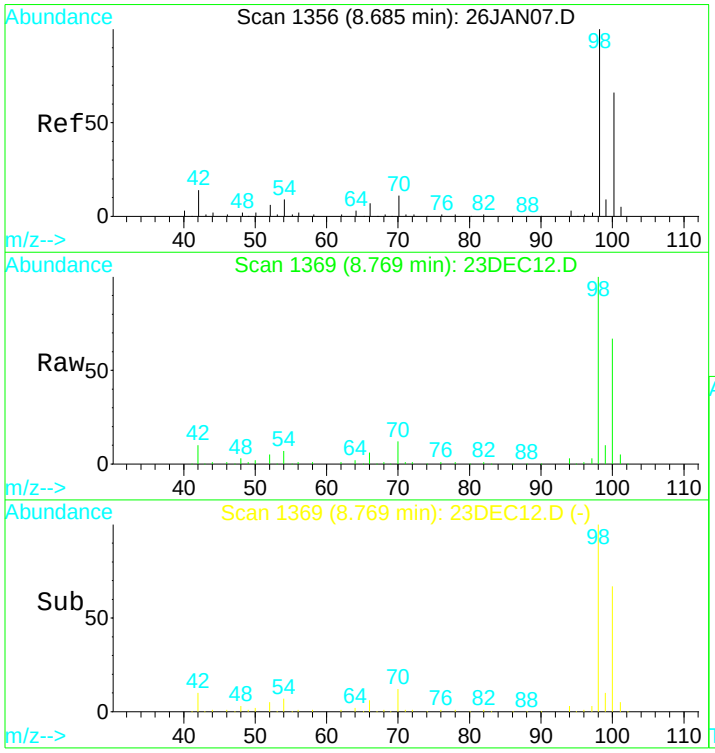


#27
Trichloroethene
Concen: 0.10 ug/L
RT: 7.78 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:130 Resp: 1296

Ion	Ratio	Lower	Upper
130	100		
132	96.3	67.5	125.4
95	97.4	72.9	135.3
97	62.0	47.9	89.1

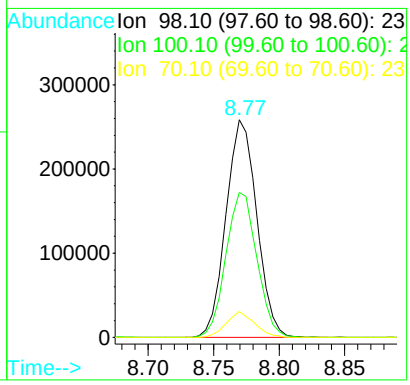


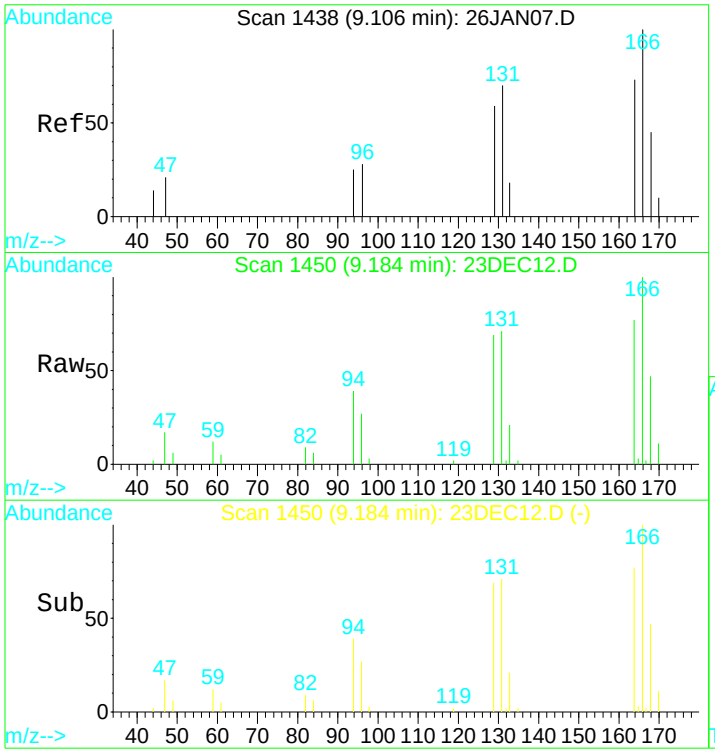


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 98 Resp: 422775

Ion	Ratio	Lower	Upper
98	100		
100	66.7	46.0	85.4
70	10.9	8.2	15.2

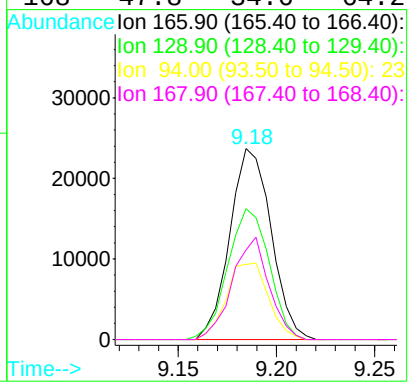


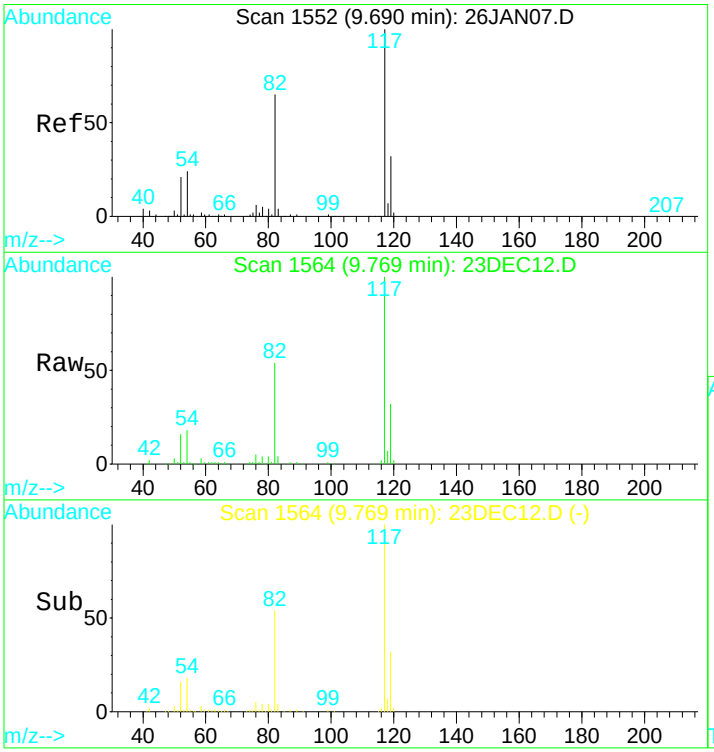


#37
Tetrachloroethene (PCE)
Concen: 2.41 ug/L
RT: 9.18 min Scan# 1450
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:166 Resp: 34642

Ion	Ratio	Lower	Upper
166	100		
129	68.5	48.4	89.8
94	40.8	32.1	59.7
168	47.8	34.6	64.2

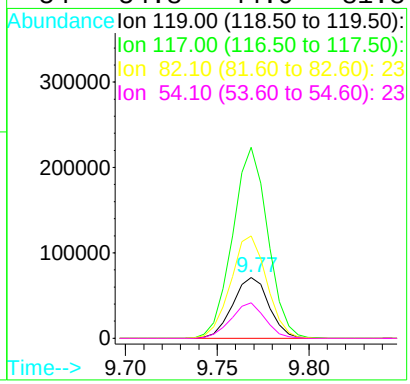


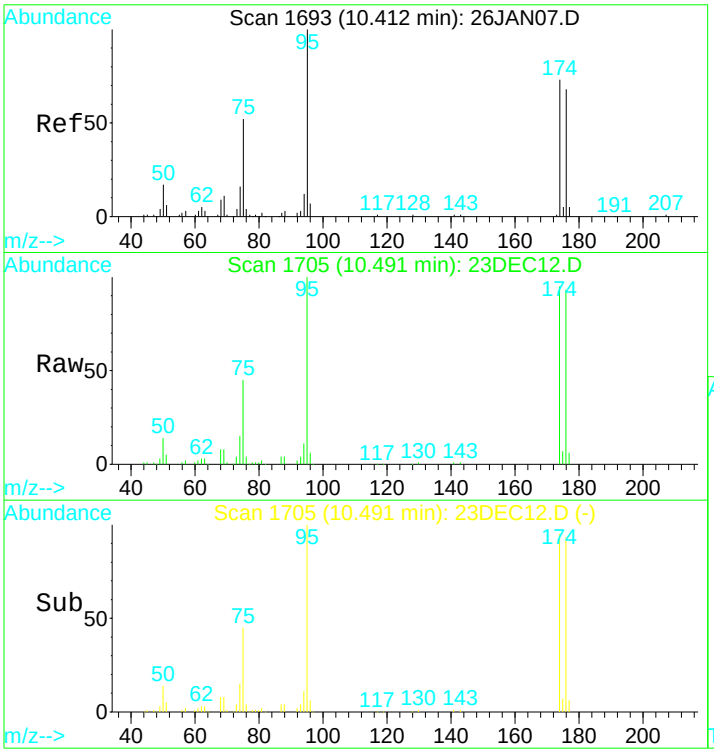


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:119 Resp: 97736

Ion	Ratio	Lower	Upper
119	100		
117	304.5	215.8	400.8
82	168.1	123.7	229.7
54	54.8	44.0	81.8

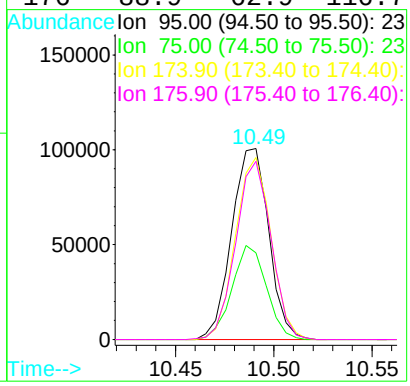




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1705
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 95 Resp: 131972

Ion	Ratio	Lower	Upper
95	100		
75	45.9	35.4	65.8
174	91.6	63.8	118.4
176	88.9	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC12.D Vial: 12
Acq On : 23 Dec 2021 9:05 am Operator: MGC
Sample : 2139227-09 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:16 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

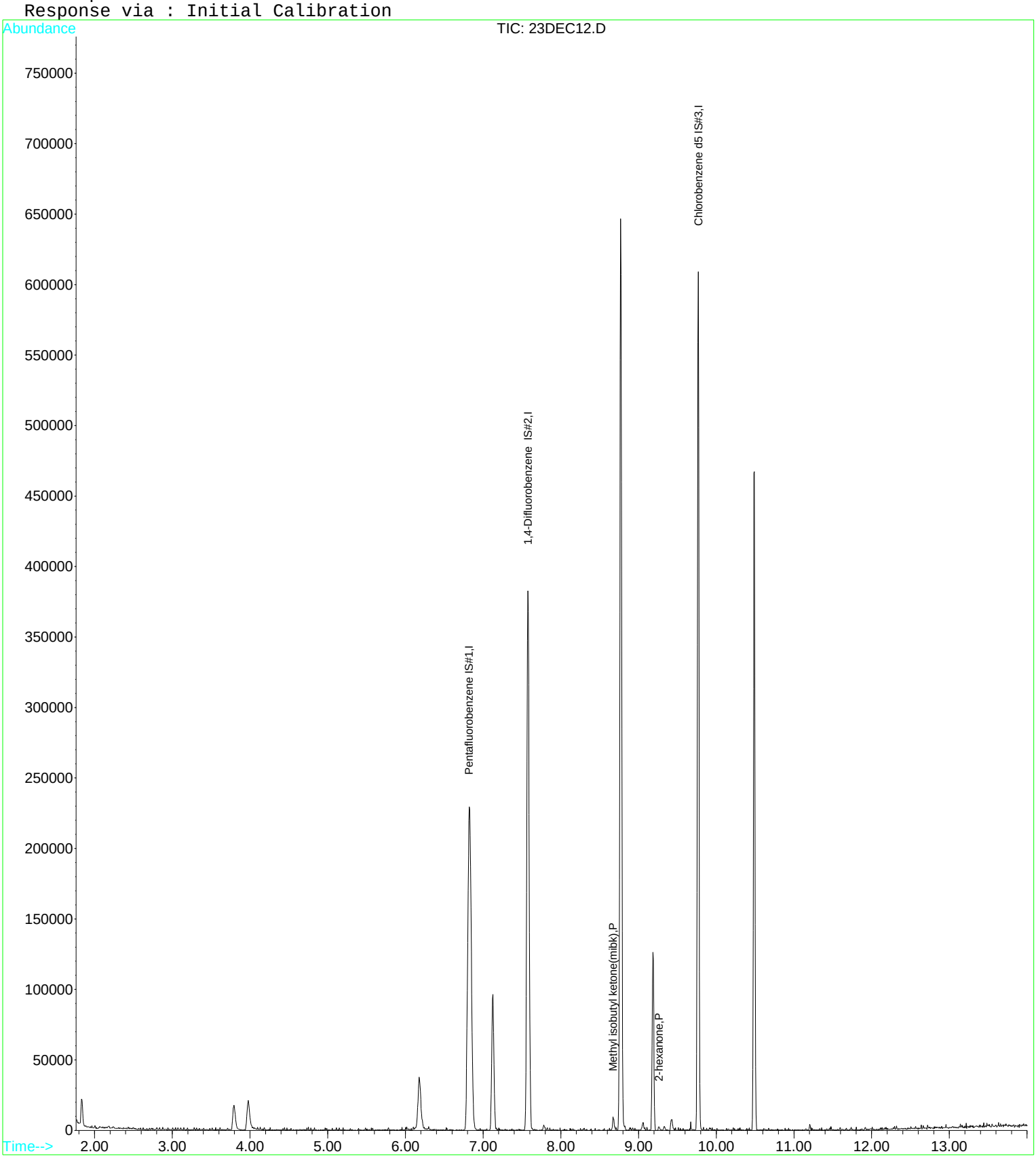
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	44521	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	70308	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	97736	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	6245	3.07	ug/L	99
35) 2-hexanone	9.26	43	1707	1.23	ug/L	87

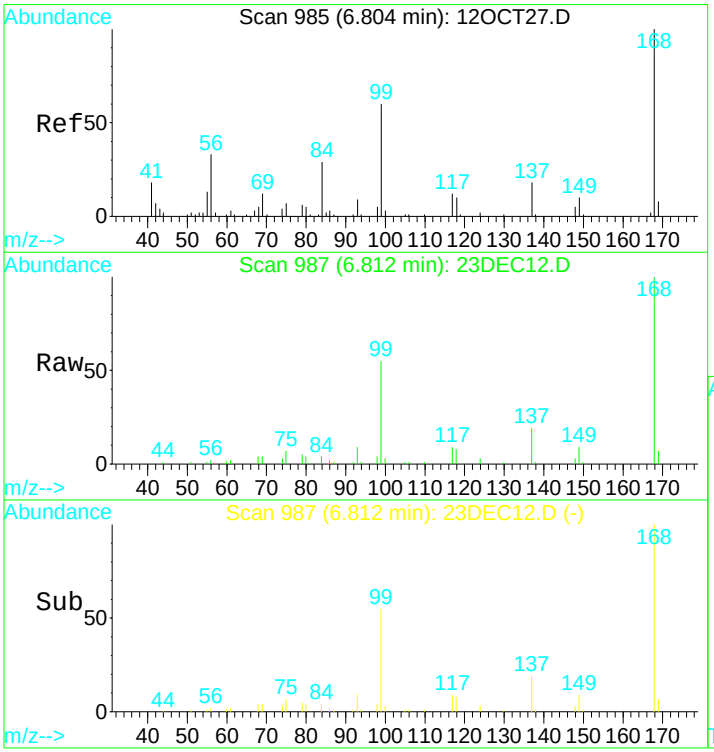
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC12.D Vial: 12
Acq On : 23 Dec 2021 9:05 am Operator: MGC
Sample : 2139227-09 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 10:16 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

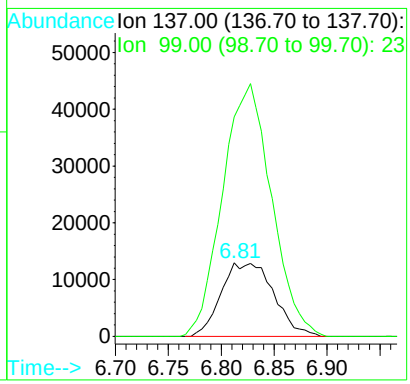


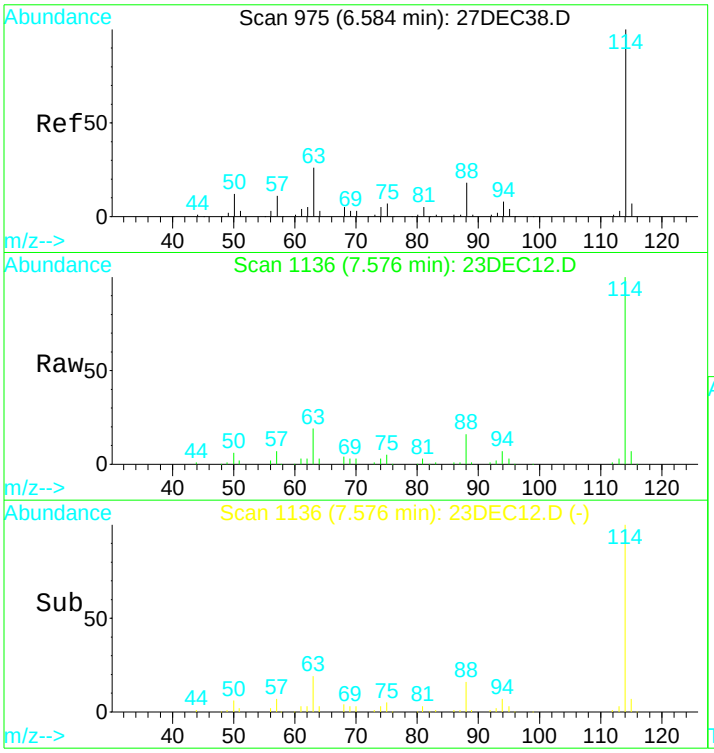


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.81 min Scan# 987
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:137 Resp: 44521

Ion	Ratio	Lower	Upper
137	100		
99	321.3	245.3	455.5

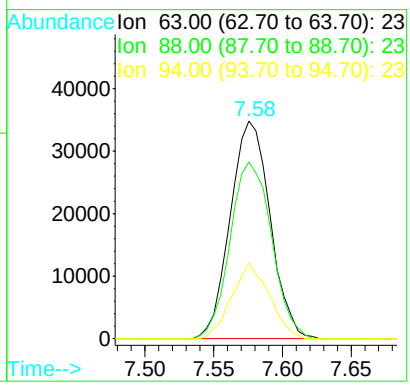


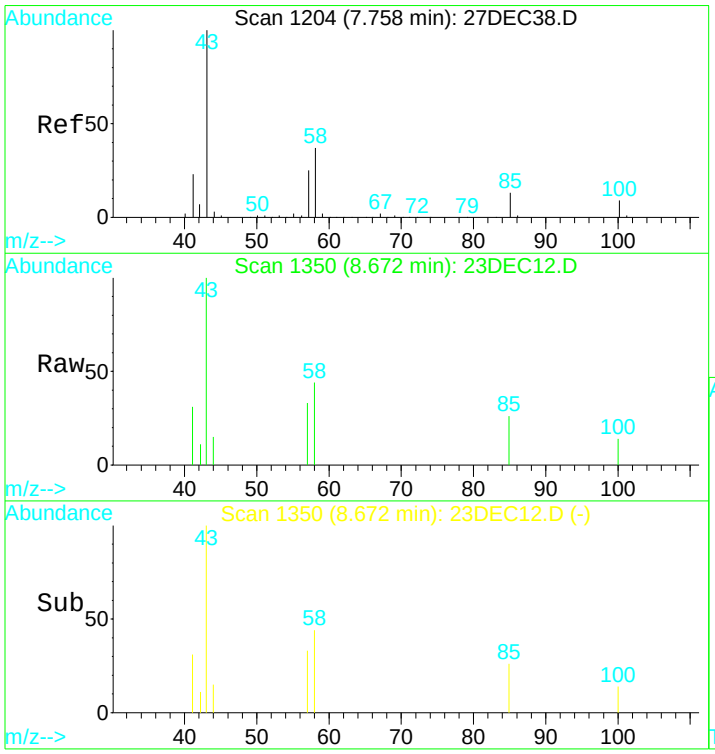


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 63 Resp: 70308

Ion	Ratio	Lower	Upper
63	100		
88	84.3	59.4	110.2
94	32.7	26.3	48.9

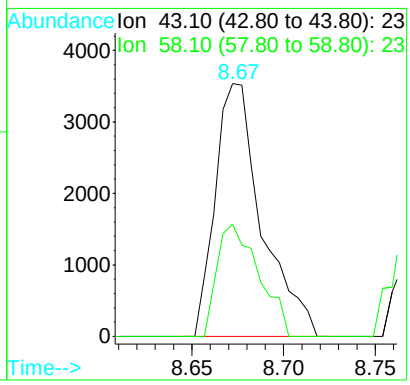


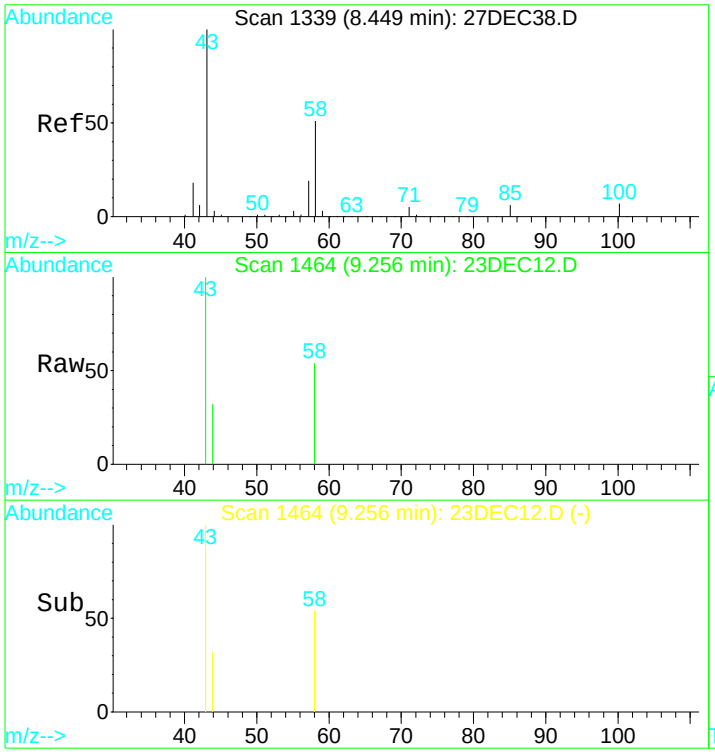


#33
Methyl isobutyl ketone(mibk)
Concen: 3.07 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 43 Resp: 6245

Ion	Ratio	Lower	Upper
43	100		
58	39.8	27.4	50.8

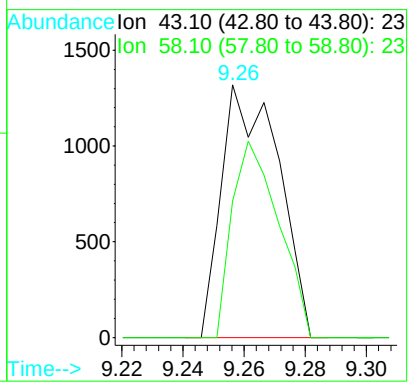


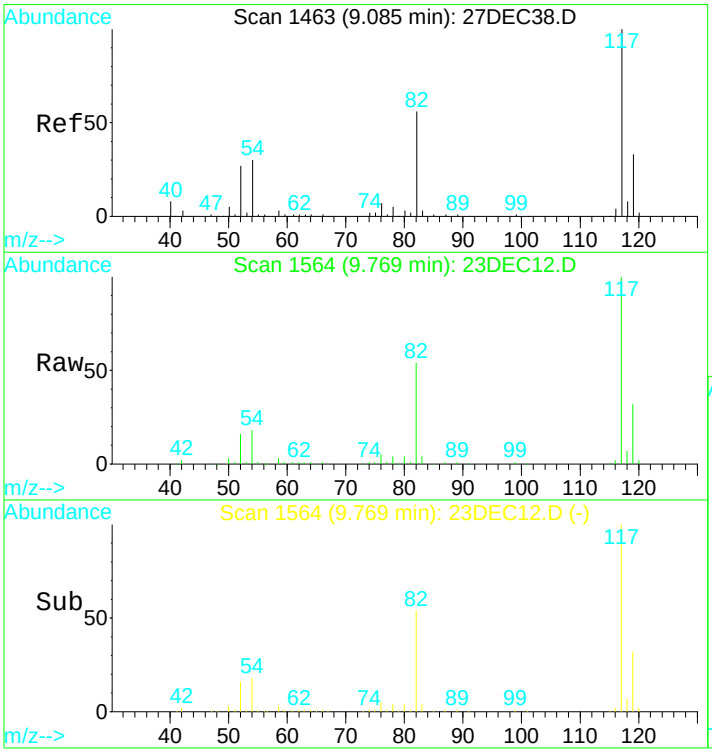


#35
2-hexanone
Concen: 1.23 ug/L
RT: 9.26 min Scan# 1464
Delta R.T. -0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion: 43 Resp: 1707

Ion	Ratio	Lower	Upper
43	100		
58	63.7	38.1	70.9

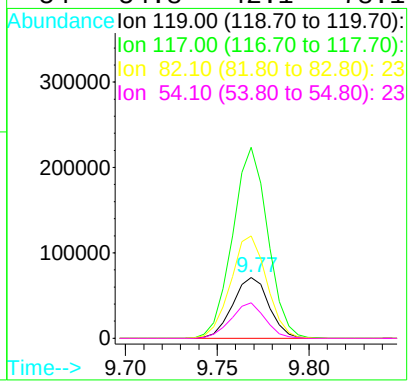




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC12.D
Acq: 23 Dec 2021 9:05 am

Tgt Ion:119 Resp: 97736

Ion	Ratio	Lower	Upper
119	100		
117	304.5	216.5	402.1
82	168.1	123.3	228.9
54	54.8	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:50 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

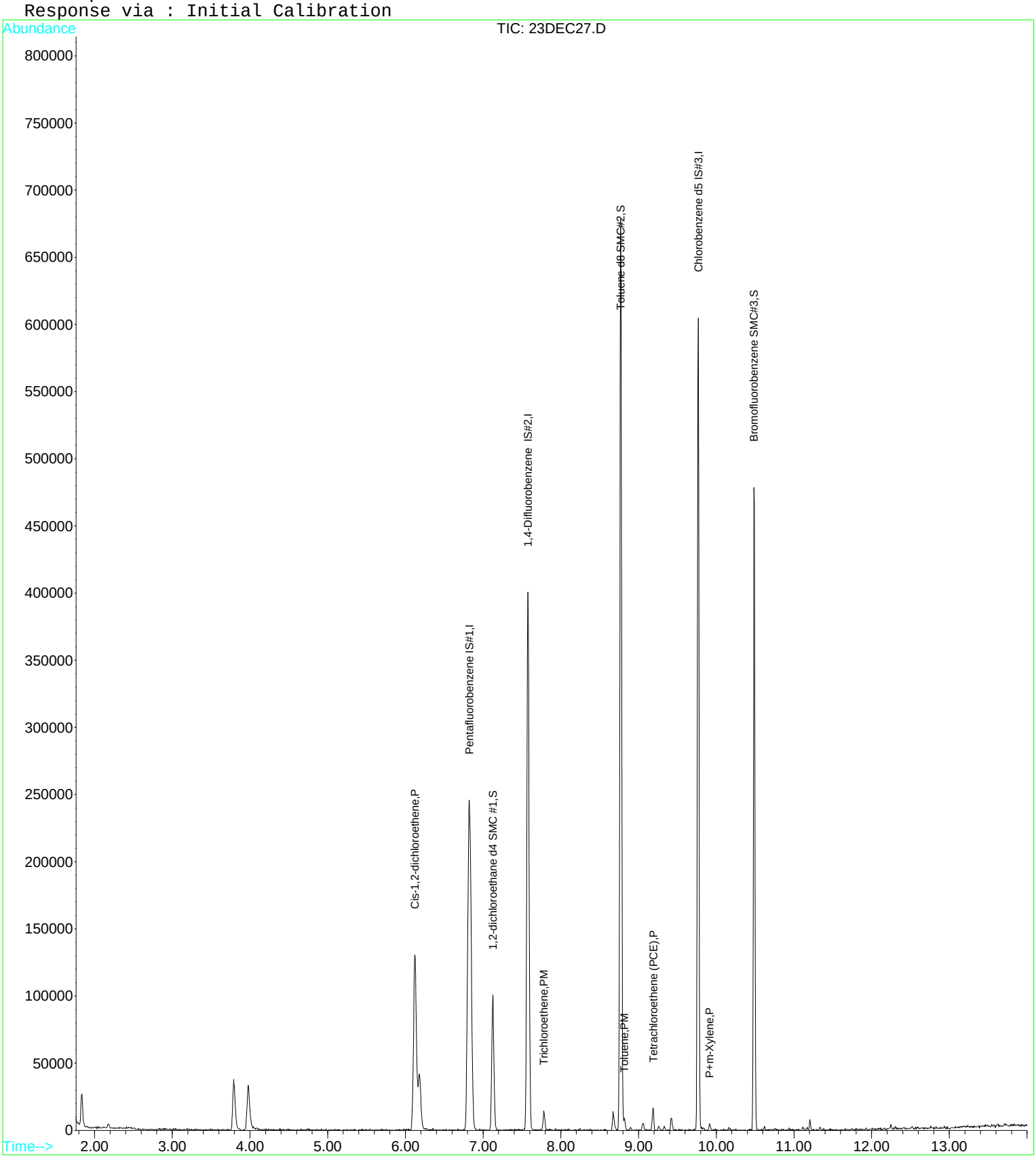
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45405	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	68968	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	97906	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	75667	8.83	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.30%			
33) Toluene d8 SMC#2	8.77	98	428475m	11.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.00%			
51) Bromofluorobenzene SMC#3	10.49	95	136052	9.31	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.10%			
Target Compounds						Qvalue
17) Cis-1,2-dichloroethene	6.12	96	86716	6.97	ug/L	93
27) Trichloroethene	7.78	130	5381	0.42	ug/L	92
34) Toluene	8.82	92	4071	0.14	ug/L	94
37) Tetrachloroethene (PCE)	9.18	166	4819	0.34	ug/L	89
45) P+m-Xylene	9.91	106	1539	0.07	ug/L #	54

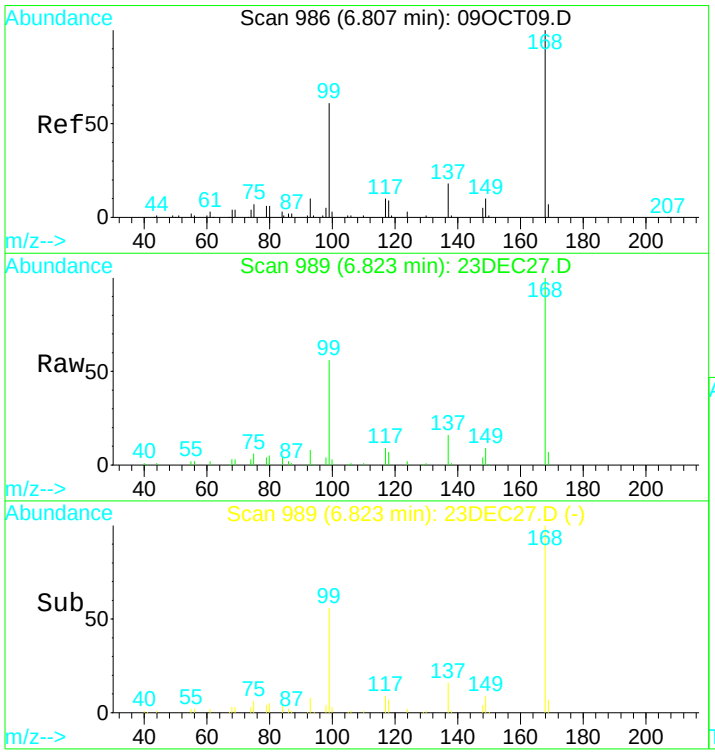
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:50 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

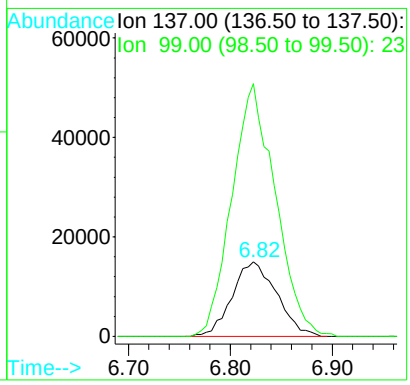


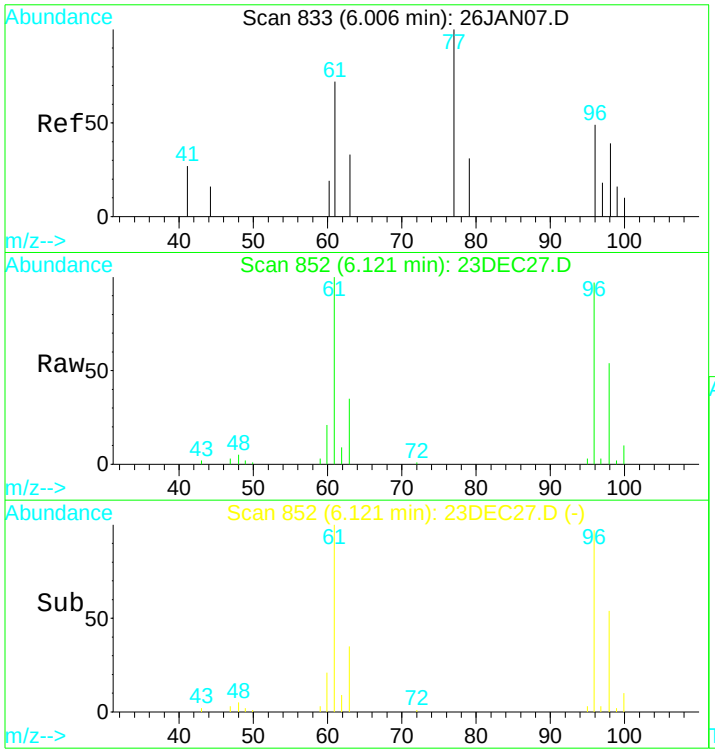


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.02 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:137 Resp: 45405

Ion	Ratio	Lower	Upper
137	100		
99	332.0	1431.5	2658.5#

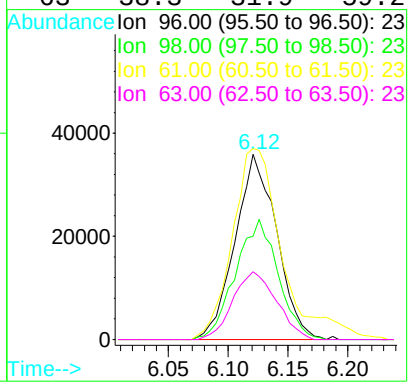


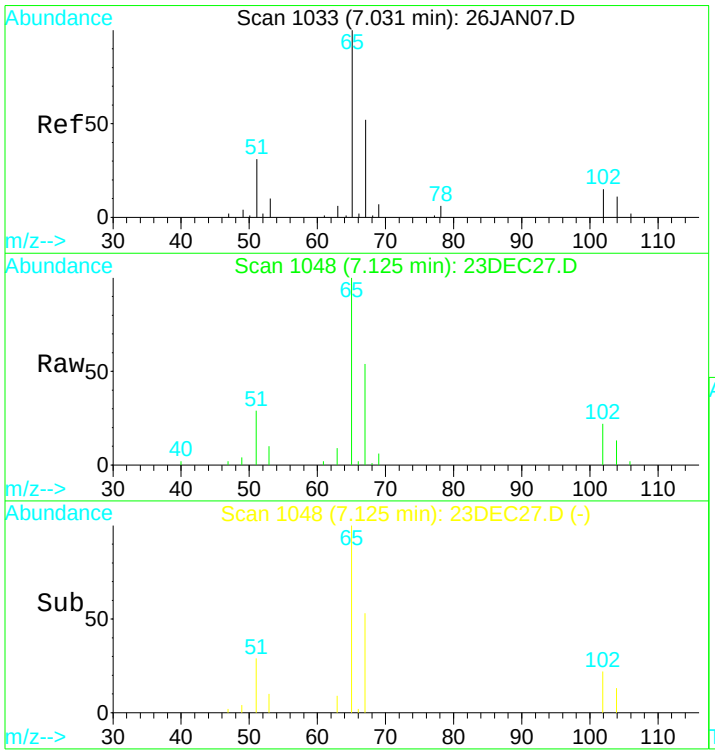


#17
Cis-1,2-dichloroethene
Concen: 6.97 ug/L
RT: 6.12 min Scan# 852
Delta R.T. -0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 96 Resp: 86716

Ion	Ratio	Lower	Upper
96	100		
98	66.5	45.6	84.8
61	121.8	92.7	172.3
63	38.3	31.9	59.2

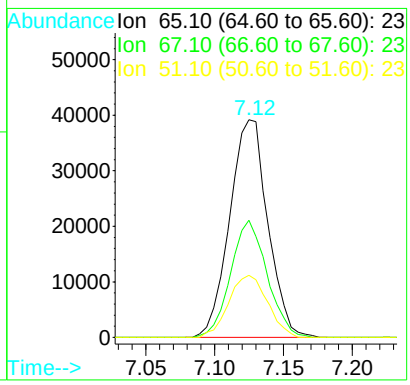


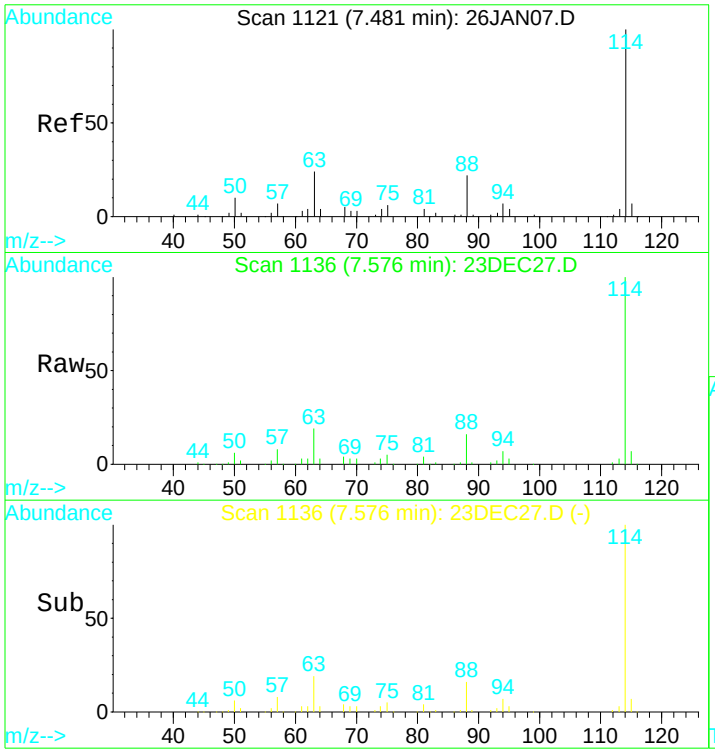


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.12 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 65 Resp: 75667

Ion	Ratio	Lower	Upper
65	100		
67	51.4	33.0	61.4
51	28.9	302.3	561.3#

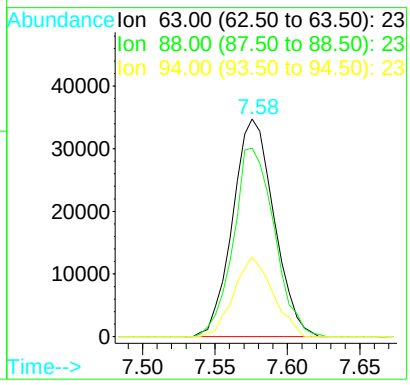


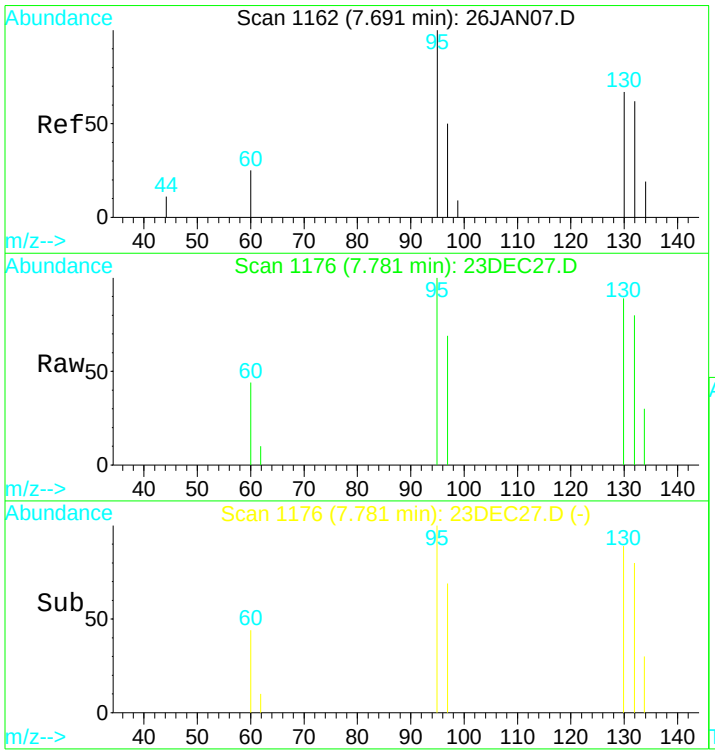


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 63 Resp: 68968

Ion	Ratio	Lower	Upper
63	100		
88	85.9	57.7	107.3
94	34.4	25.6	47.4

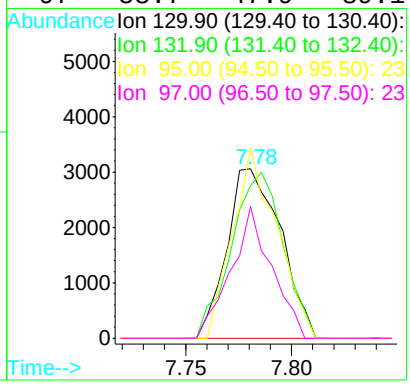


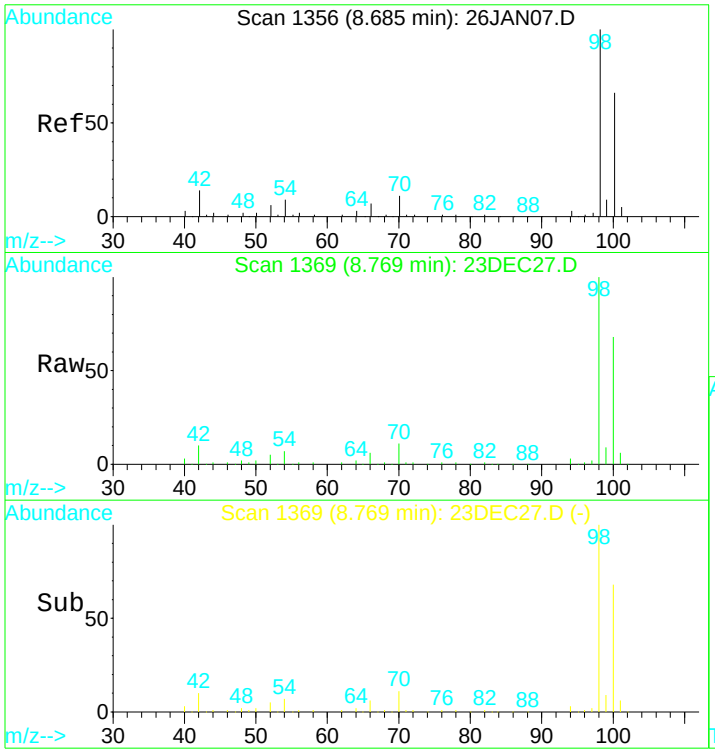


#27
Trichloroethene
Concen: 0.42 ug/L
RT: 7.78 min Scan# 1176
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:130 Resp: 5381

Ion	Ratio	Lower	Upper
130	100		
132	94.4	67.5	125.4
95	93.1	72.9	135.3
97	58.7	47.9	89.1

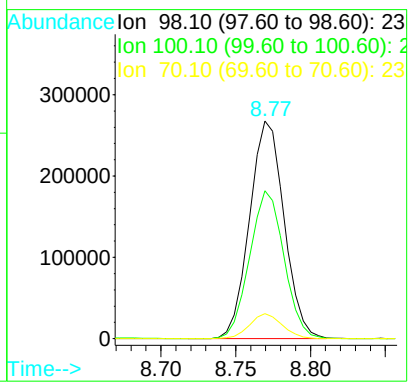


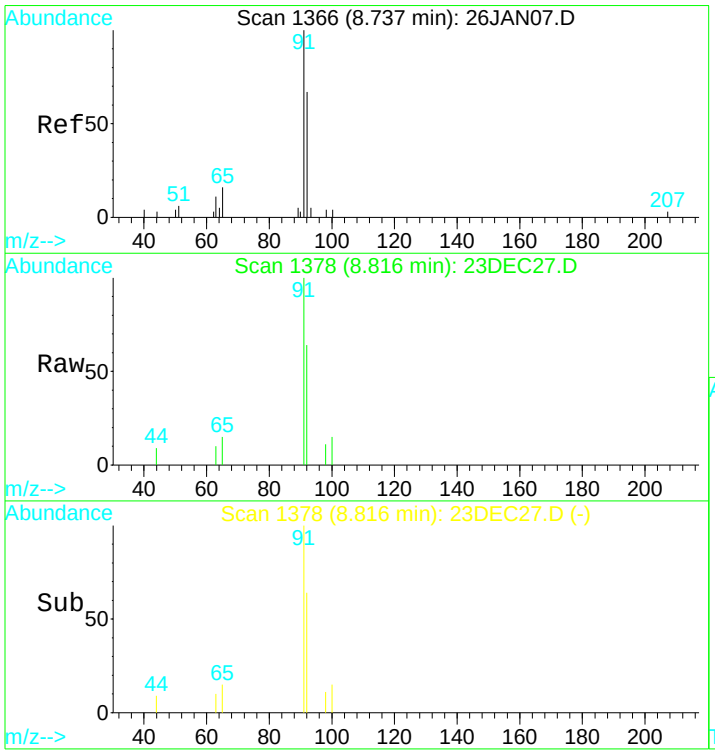


#33
Toluene d8 SMC#2
Concen: N.D. ug/L m
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 98 Resp: 428475

Ion	Ratio	Lower	Upper
98	100		
100	67.5	46.0	85.4
70	10.9	8.2	15.2

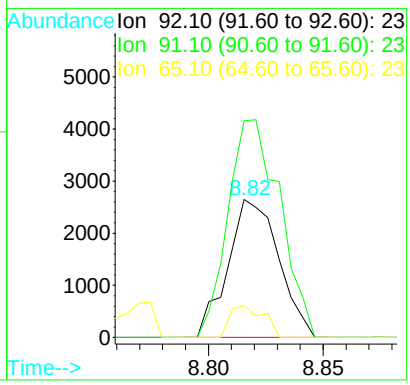


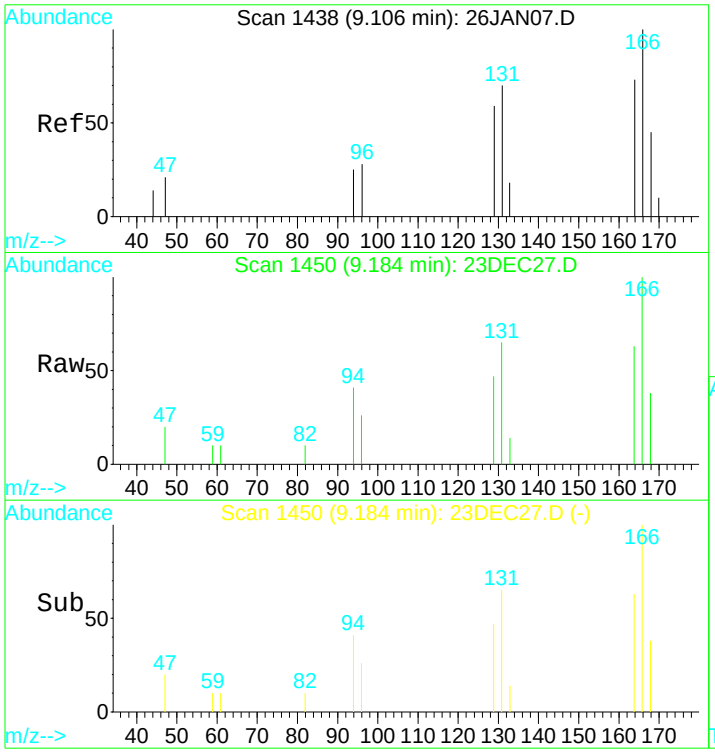


#34
Toluene
Concen: 0.14 ug/L
RT: 8.82 min Scan# 1378
Delta R.T. -0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 92 Resp: 4071

Ion	Ratio	Lower	Upper
92	100		
91	161.7	108.6	201.8
65	15.3	14.8	27.4

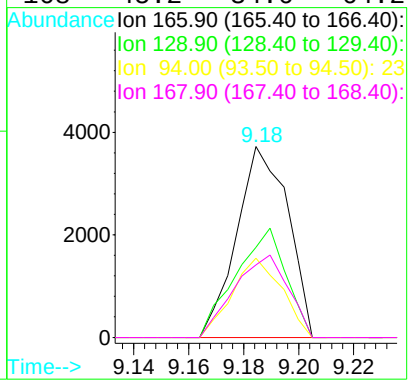


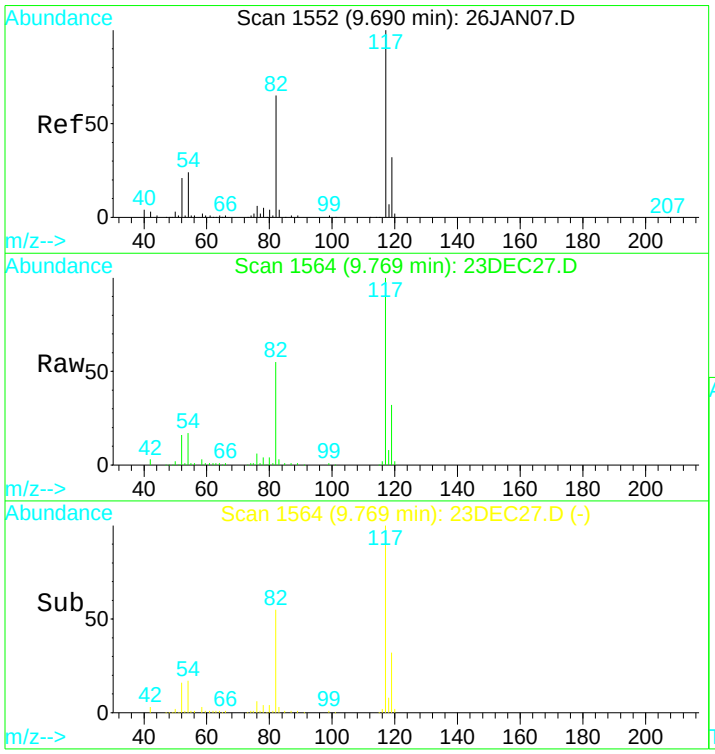


#37
Tetrachloroethene (PCE)
Concen: 0.34 ug/L
RT: 9.18 min Scan# 1450
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:166 Resp: 4819

Ion	Ratio	Lower	Upper
166	100		
129	56.2	48.4	89.8
94	40.1	32.1	59.7
168	45.2	34.6	64.2

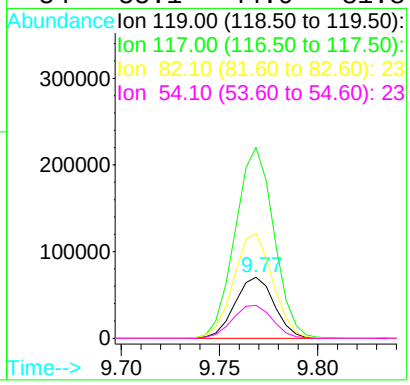


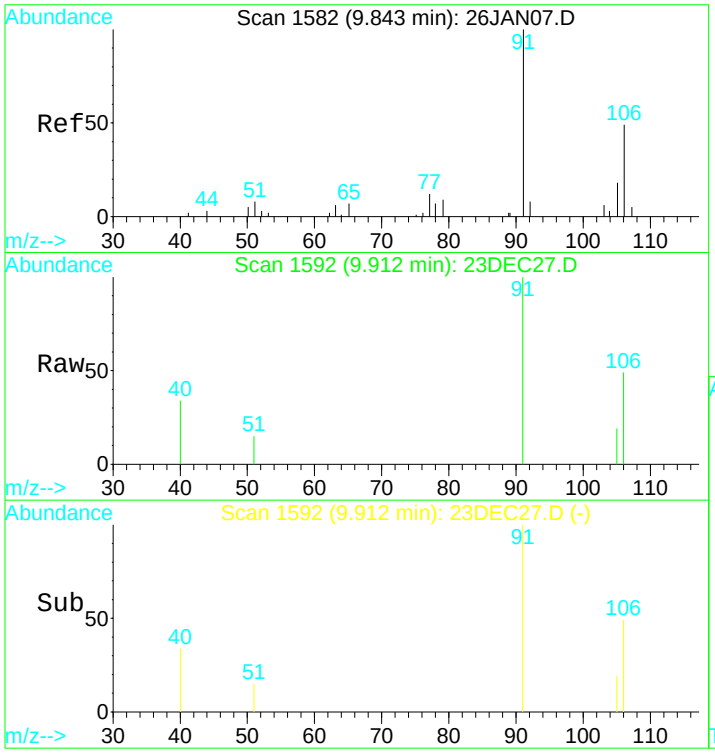


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:119 Resp: 97906

Ion	Ratio	Lower	Upper
119	100		
117	309.2	215.8	400.8
82	170.7	123.7	229.7
54	55.1	44.0	81.8

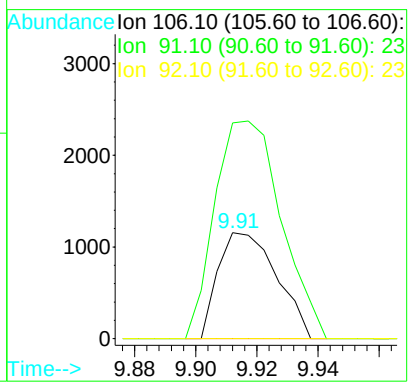


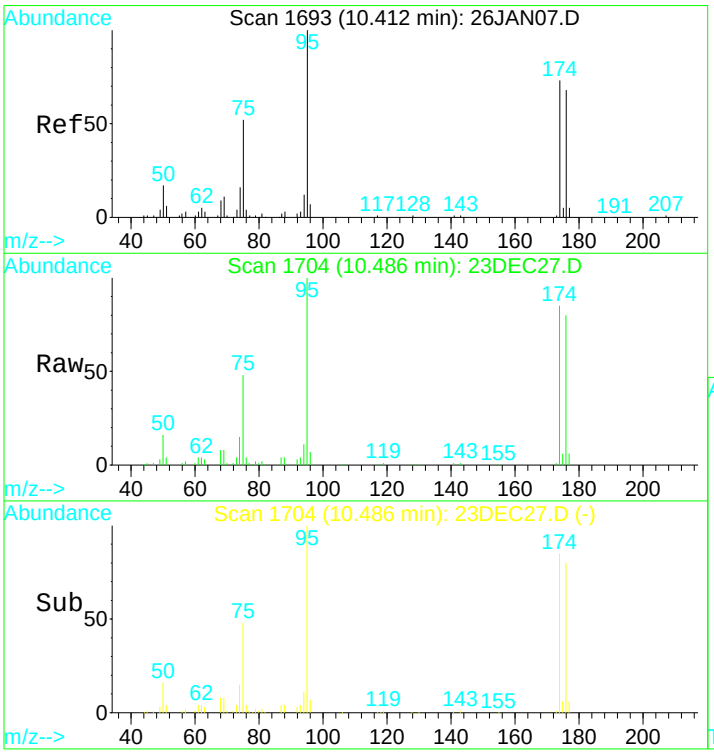


#45
P+m-Xylene
Concen: 0.07 ug/L
RT: 9.91 min Scan# 1592
Delta R.T. -0.01 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:106 Resp: 1539

Ion	Ratio	Lower	Upper
106	100		
91	232.8	119.1	221.1#
92	0.0	14.1	26.3#

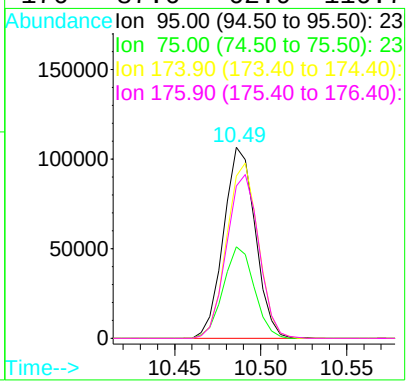




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 95 Resp: 136052

Ion	Ratio	Lower	Upper
95	100		
75	46.9	35.4	65.8
174	91.5	63.8	118.4
176	87.6	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:52 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

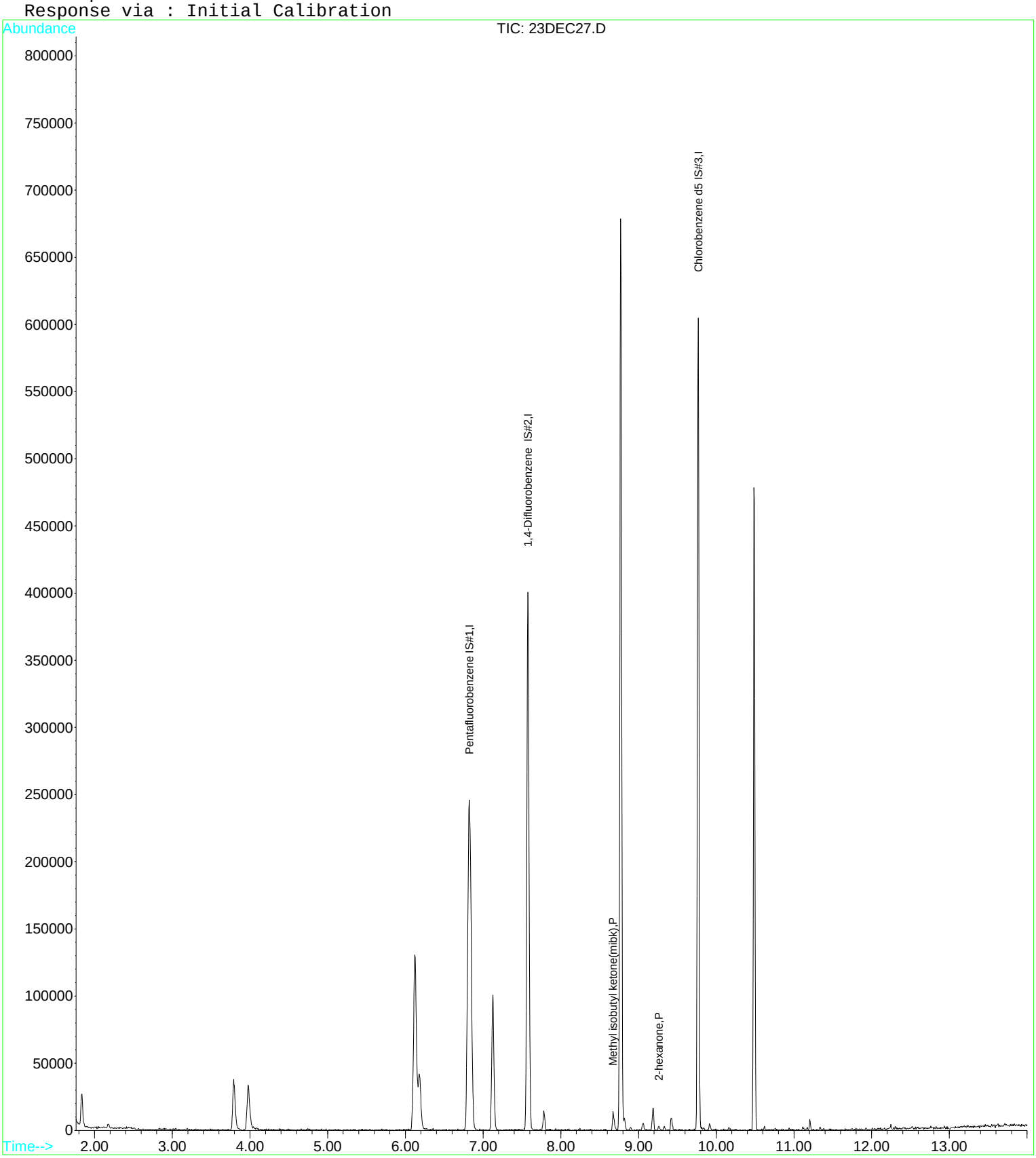
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45405	10.00	ug/L	0.01
29) 1,4-Difluorobenzene IS#2	7.58	63	68968	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	97906	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	9028	4.52	ug/L	99
35) 2-hexanone	9.27	43	2509	1.84	ug/L	85

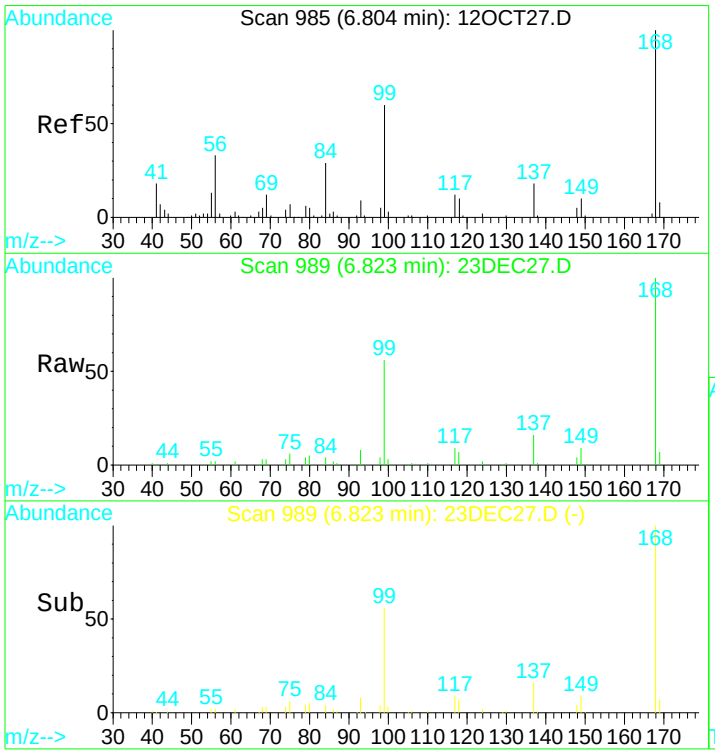
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:52 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

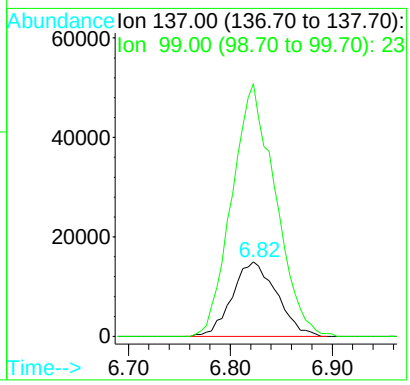


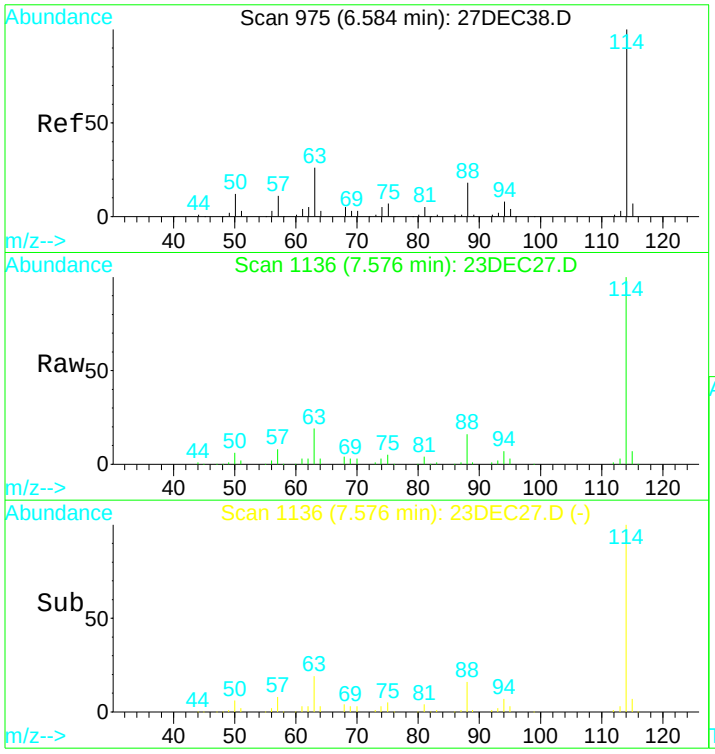


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:137 Resp: 45405

Ion	Ratio	Lower	Upper
137	100		
99	332.0	245.3	455.5

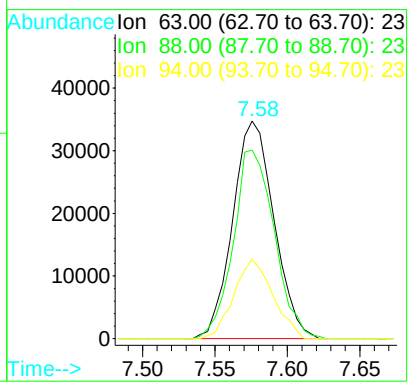


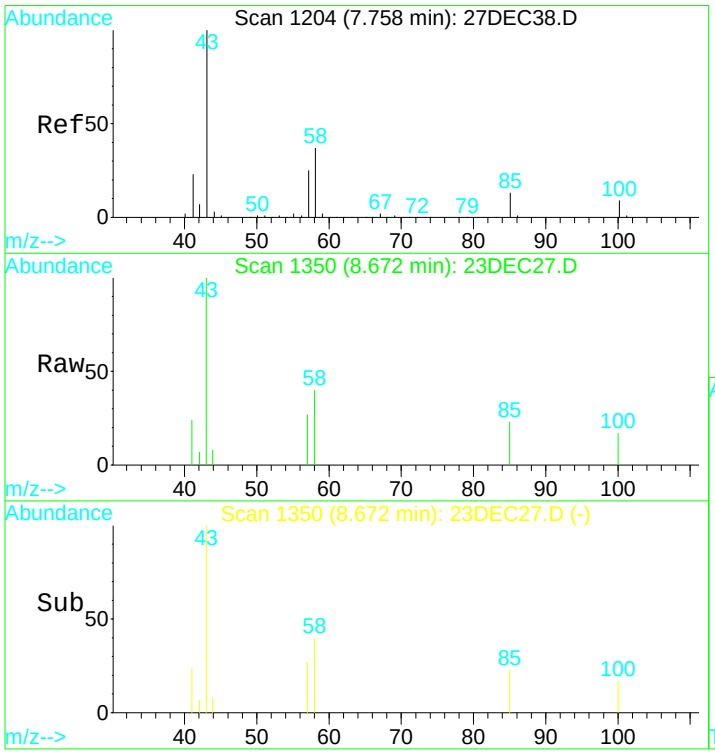


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 63 Resp: 68968

Ion	Ratio	Lower	Upper
63	100		
88	85.9	59.4	110.2
94	34.4	26.3	48.9

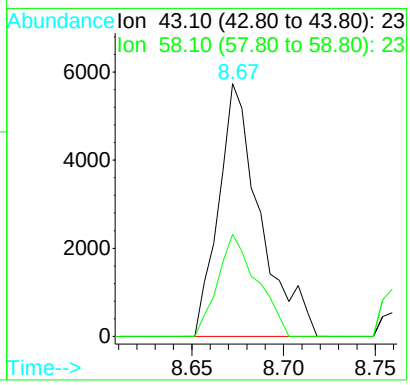


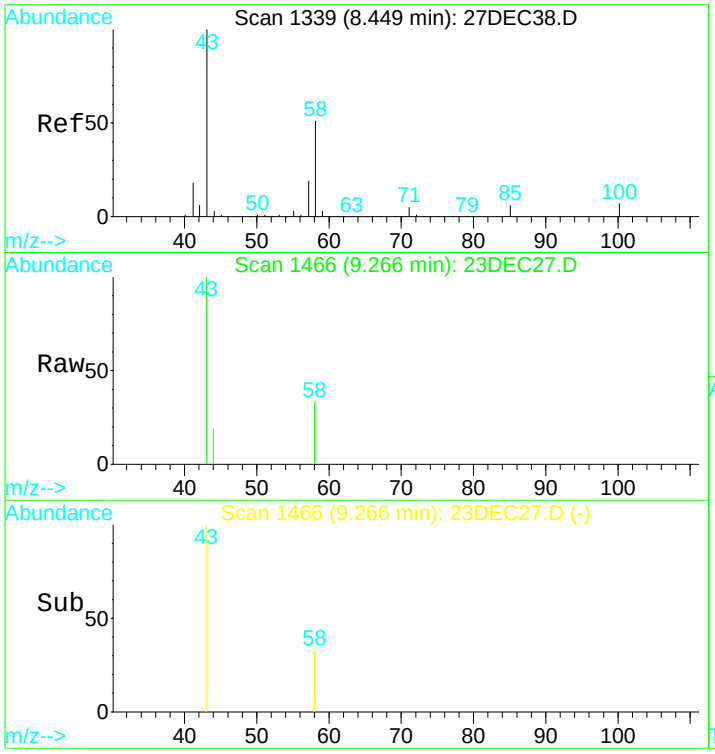


#33
Methyl isobutyl ketone(mibk)
Concen: 4.52 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 43 Resp: 9028

Ion	Ratio	Lower	Upper
43	100		
58	38.3	27.4	50.8

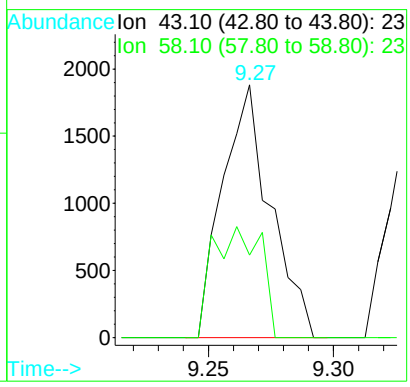


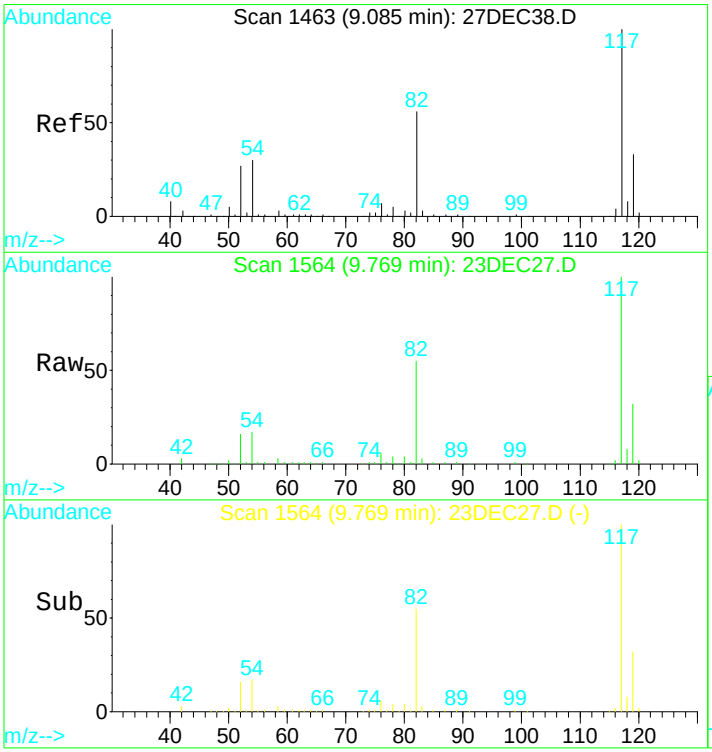


#35
2-hexanone
Concen: 1.84 ug/L
RT: 9.27 min Scan# 1466
Delta R.T. 0.01 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion: 43 Resp: 2509

Ion	Ratio	Lower	Upper
43	100		
58	43.8	38.1	70.9

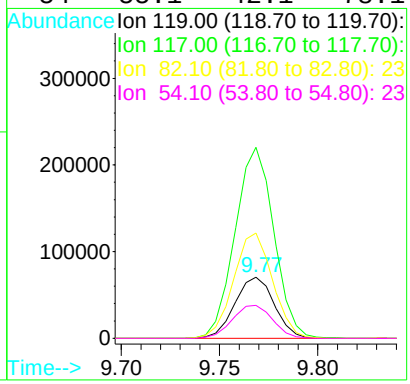




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC27.D
Acq: 23 Dec 2021 3:10 pm

Tgt Ion:119 Resp: 97906

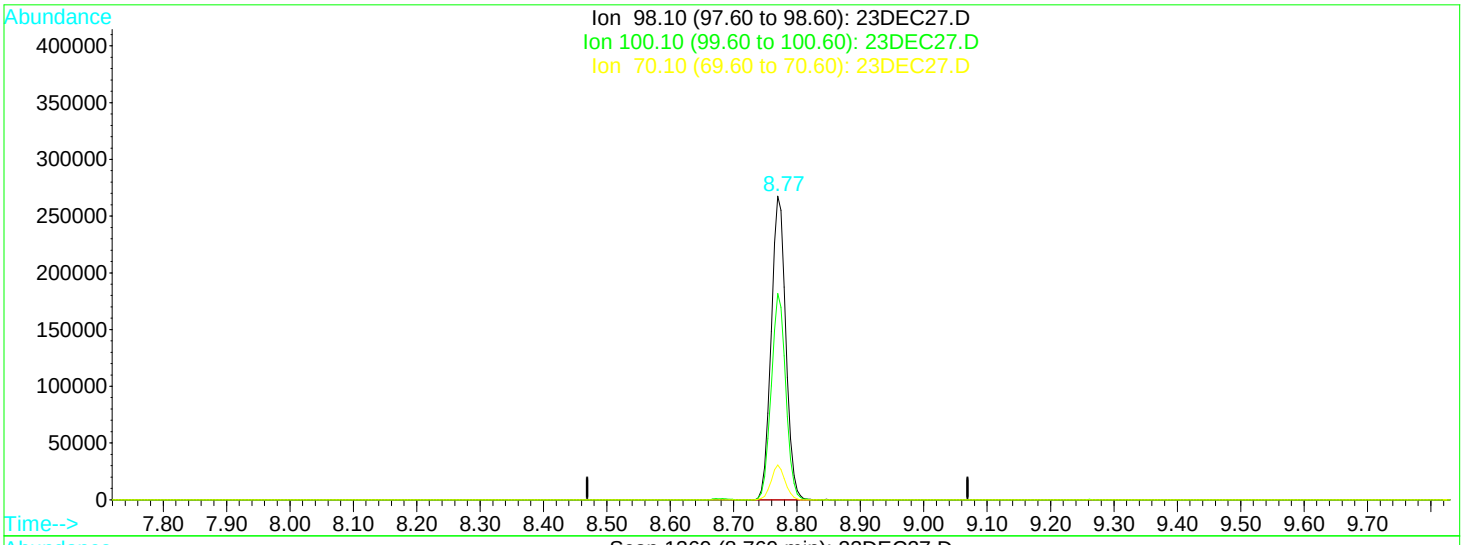
Ion	Ratio	Lower	Upper
119	100		
117	309.2	216.5	402.1
82	170.7	123.3	228.9
54	55.1	42.1	78.1

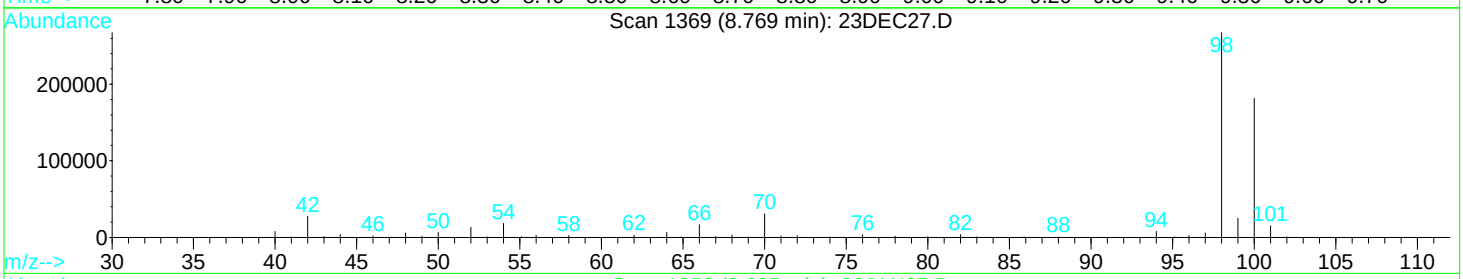


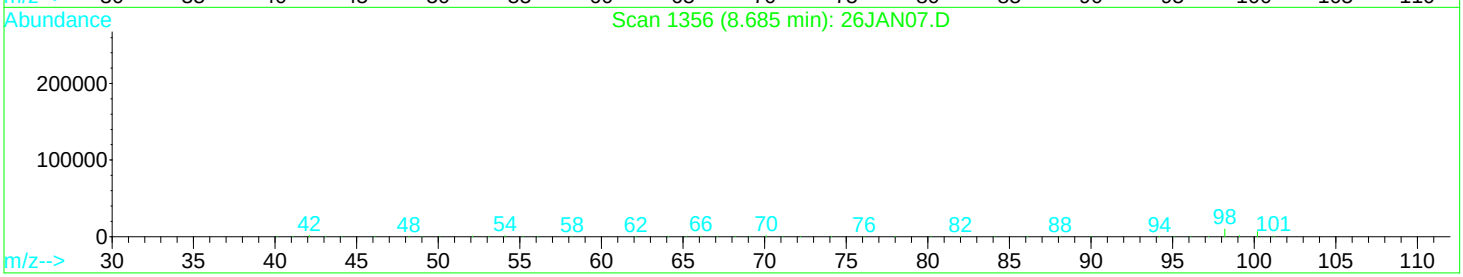
Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:49 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration







TIC: 23DEC27.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.22ug/L

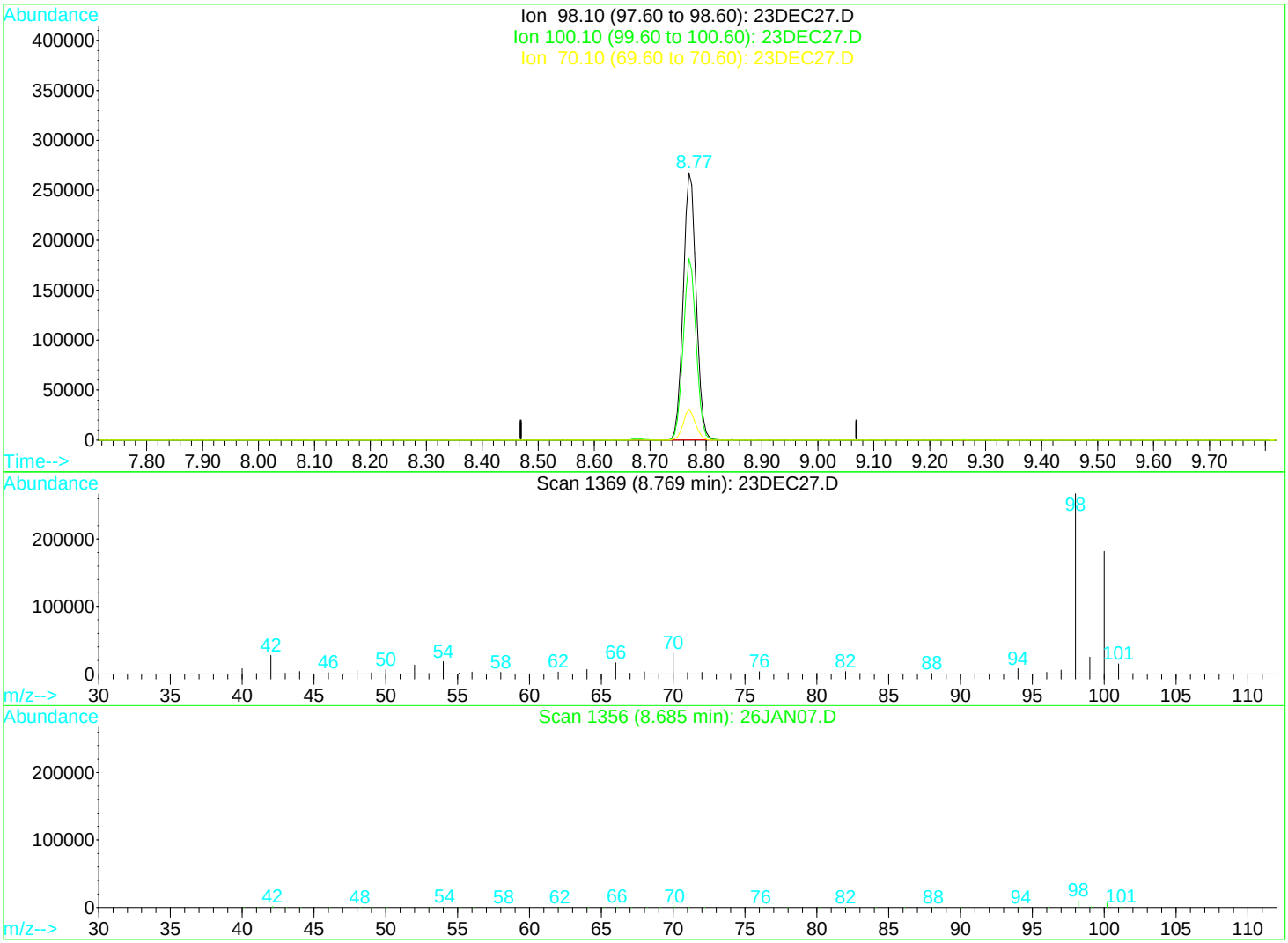
response 429089

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	67.44
70.10	11.70	10.89
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC27.D Vial: 27
Acq On : 23 Dec 2021 3:10 pm Operator: MGC
Sample : 2139227-10 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:50 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration



TIC: 23DEC27.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.20ug/L m

response 428475

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	67.53
70.10	11.70	10.91
0.00	0.00	0.00

Analyst: MGC
Date: 2021-12-27 05:50
Reason: (P) - Peak Correction - misidentification correction
(X) - Reviewed for acceptability

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC17.D Vial: 17
Acq On : 23 Dec 2021 11:07 am Operator: MGC
Sample : 2139227-11 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 11:22 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

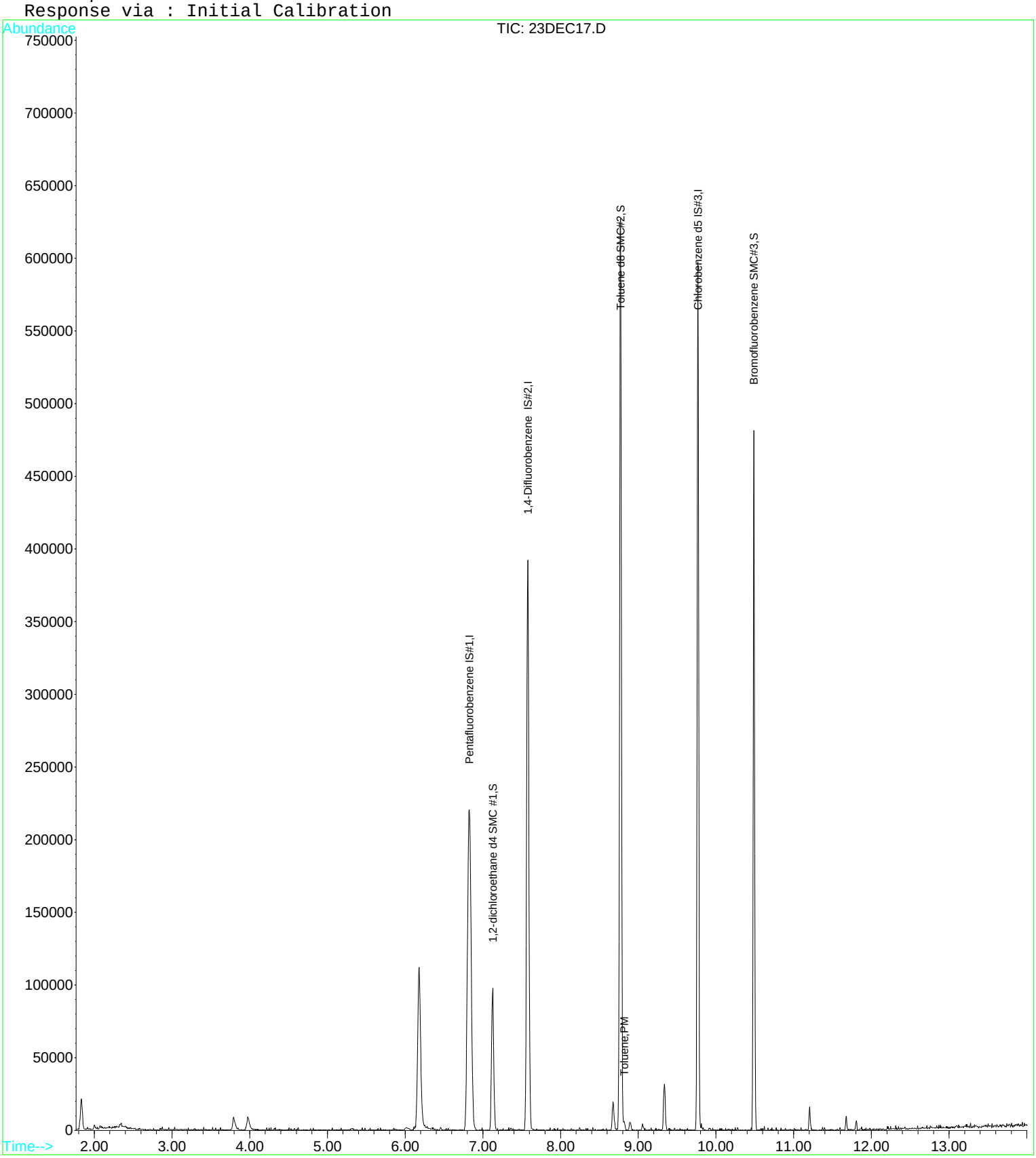
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	44000	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.57	63	67575	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	96759	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	73934	8.90	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 89.00%			
33) Toluene d8 SMC#2	8.77	98	412012	10.99	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.90%			
51) Bromofluorobenzene SMC#3	10.49	95	130742	9.05	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.50%			
Target Compounds						Qvalue
34) Toluene	8.82	92	2711	0.10	ug/L	# 78

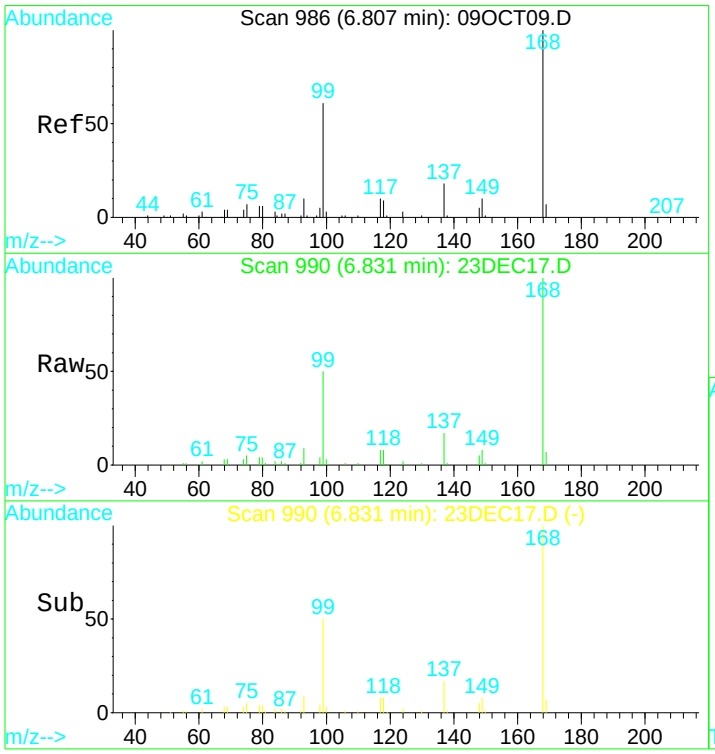
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC17.D Vial: 17
Acq On : 23 Dec 2021 11:07 am Operator: MGC
Sample : 2139227-11 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 11:22 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

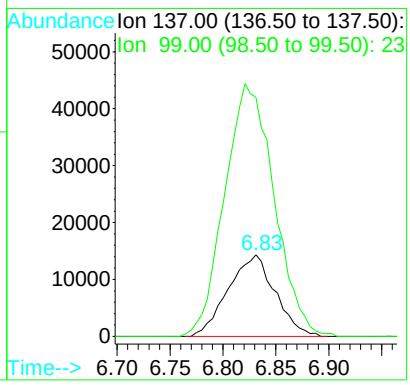


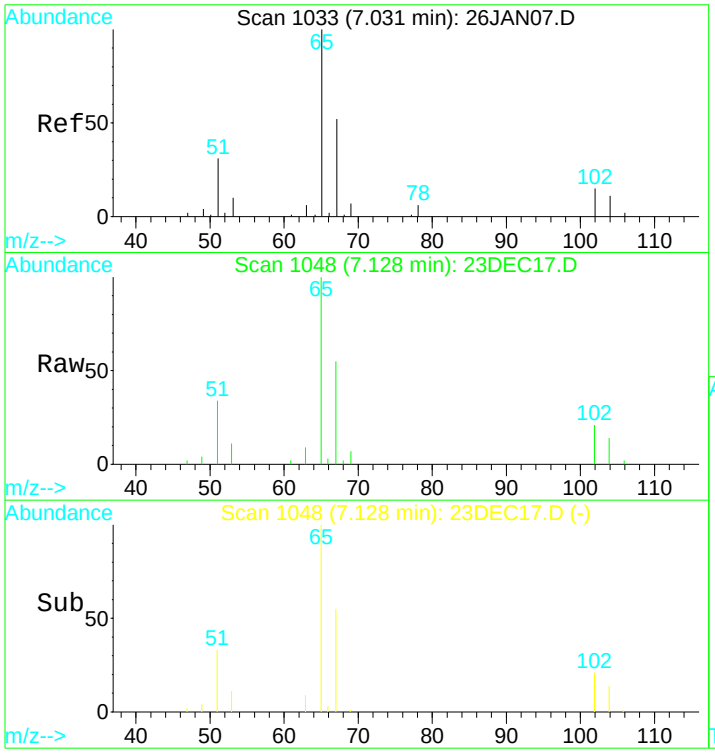


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion:137 Resp: 44000

Ion	Ratio	Lower	Upper
137	100		
99	327.3	1431.5	2658.5#

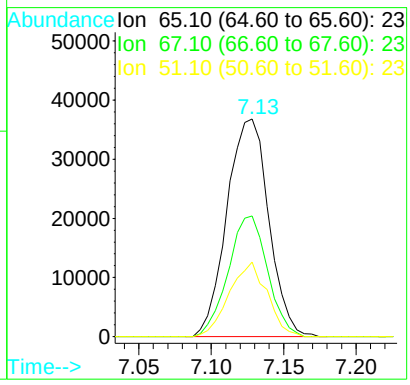


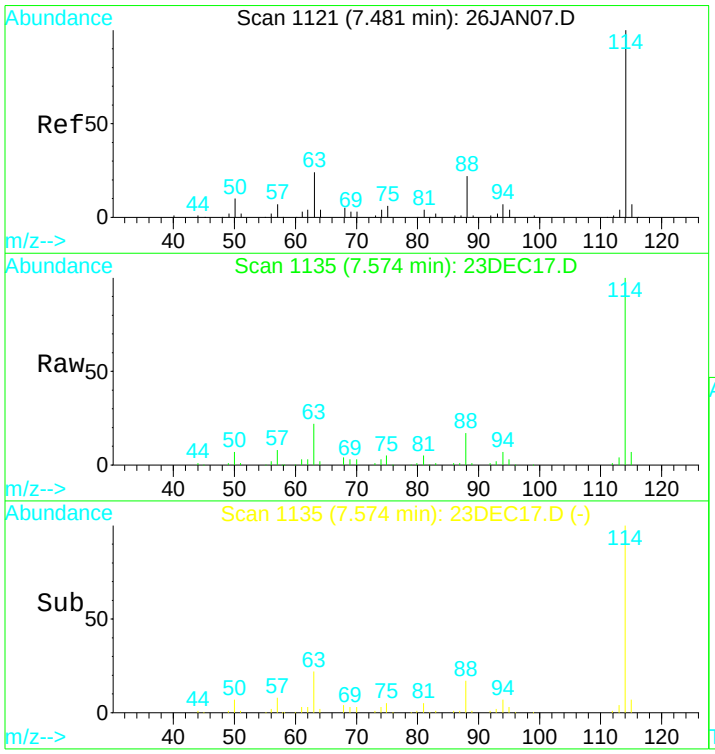


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 65 Resp: 73934

Ion	Ratio	Lower	Upper
65	100		
67	52.1	33.0	61.4
51	31.0	302.3	561.3#

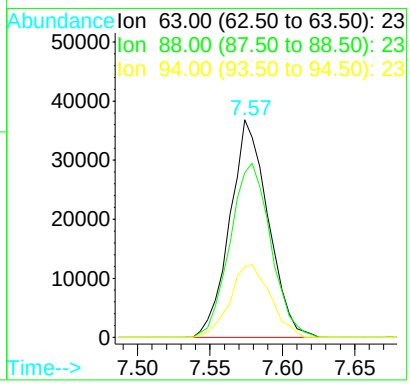


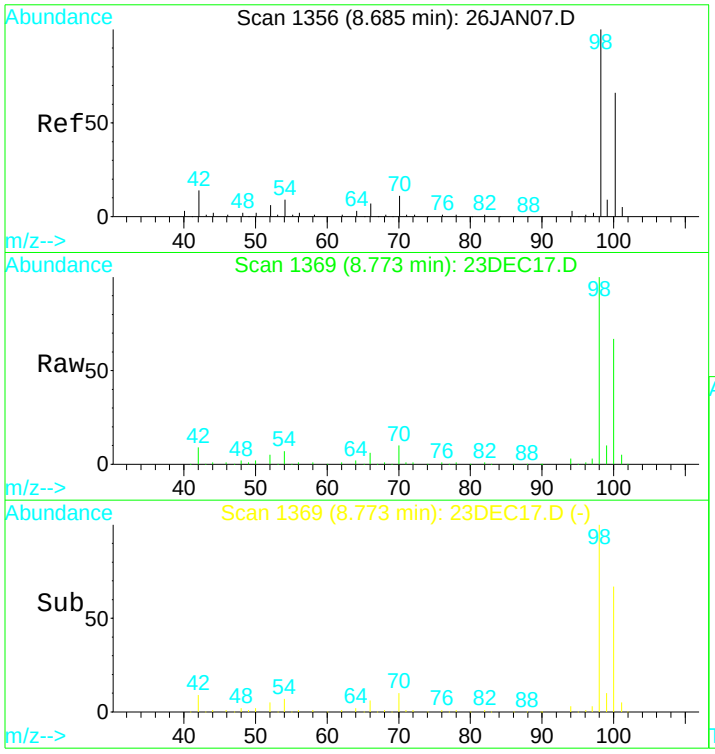


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 63 Resp: 67575

Ion	Ratio	Lower	Upper
63	100		
88	85.2	57.7	107.3
94	35.4	25.6	47.4

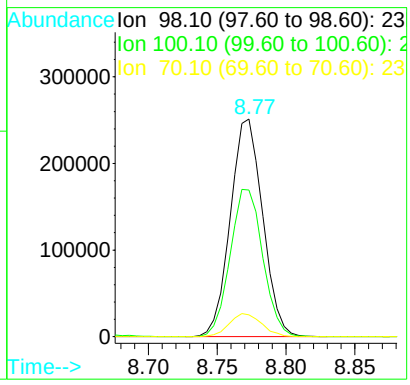


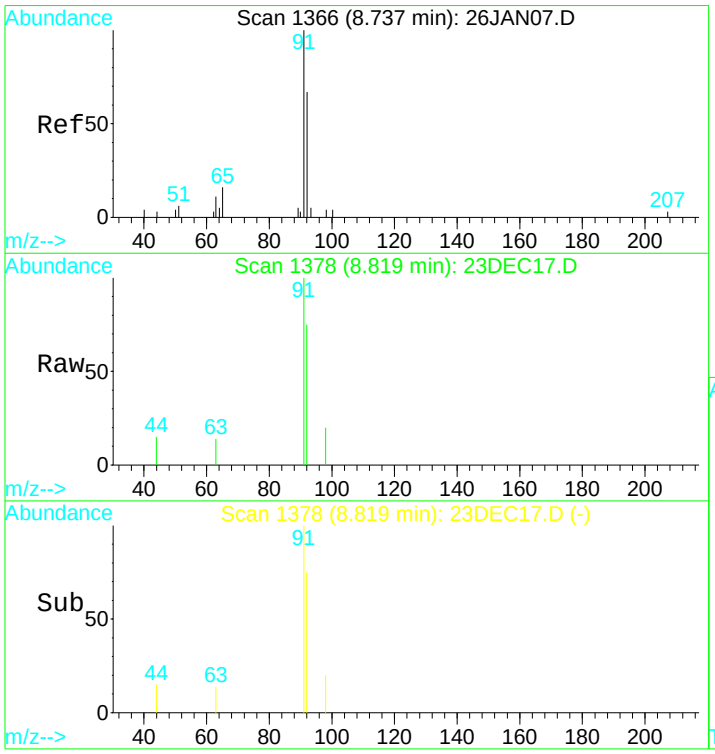


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 98 Resp: 412012

Ion	Ratio	Lower	Upper
98	100		
100	68.2	46.0	85.4
70	10.6	8.2	15.2

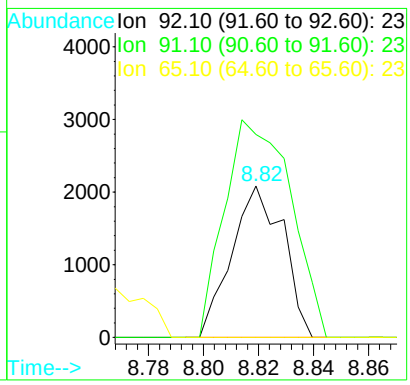


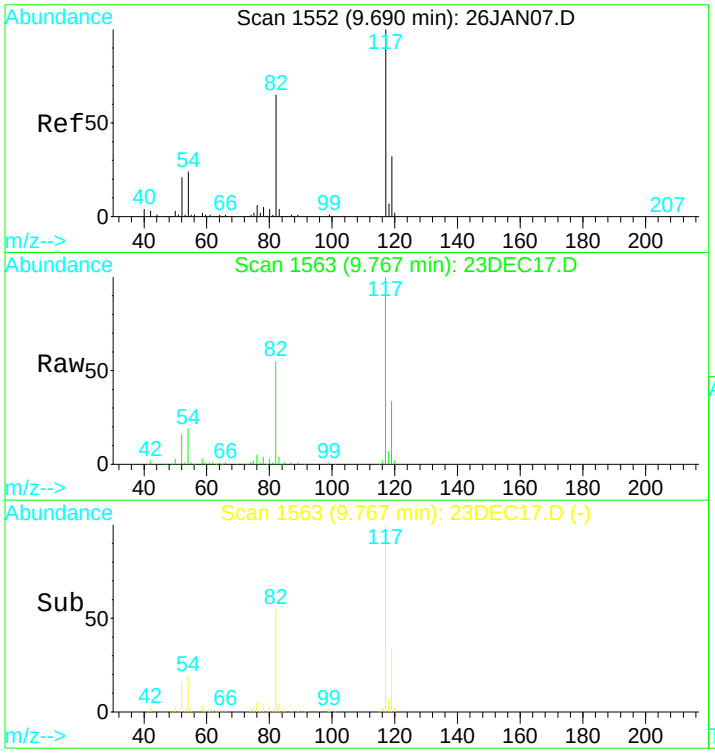


#34
Toluene
Concen: 0.10 ug/L
RT: 8.82 min Scan# 1378
Delta R.T. -0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 92 Resp: 2711

Ion	Ratio	Lower	Upper
92	100		
91	184.4	108.6	201.8
65	30.1	14.8	27.4#

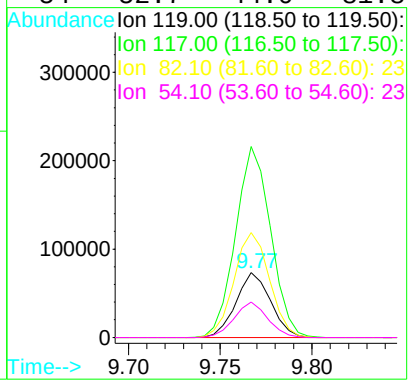


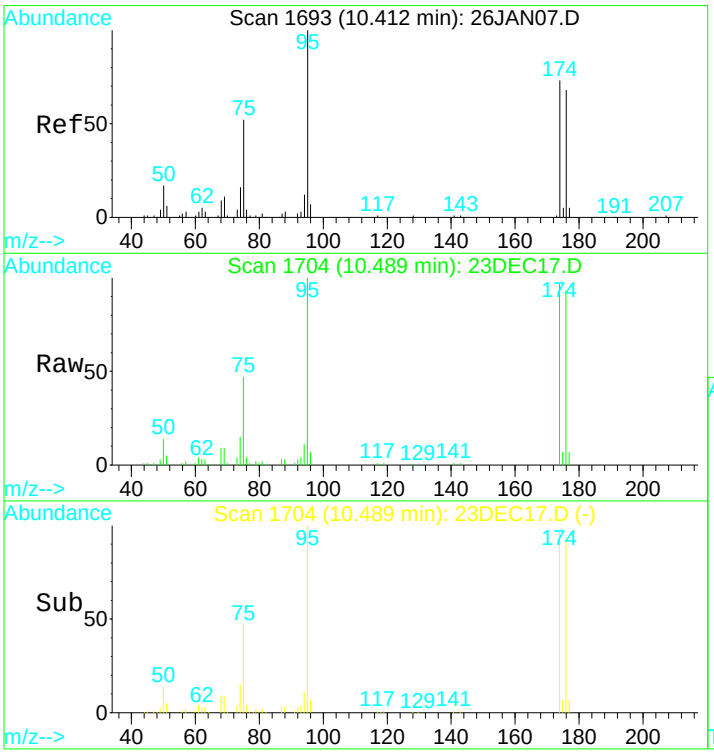


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion:119 Resp: 96759

Ion	Ratio	Lower	Upper
119	100		
117	297.1	215.8	400.8
82	164.7	123.7	229.7
54	52.7	44.0	81.8

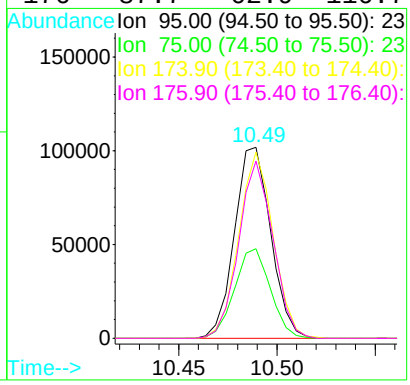




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 95 Resp: 130742

Ion	Ratio	Lower	Upper
95	100		
75	46.3	35.4	65.8
174	92.5	63.8	118.4
176	87.7	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC17.D Vial: 17
Acq On : 23 Dec 2021 11:07 am Operator: MGC
Sample : 2139227-11 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 11:23 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

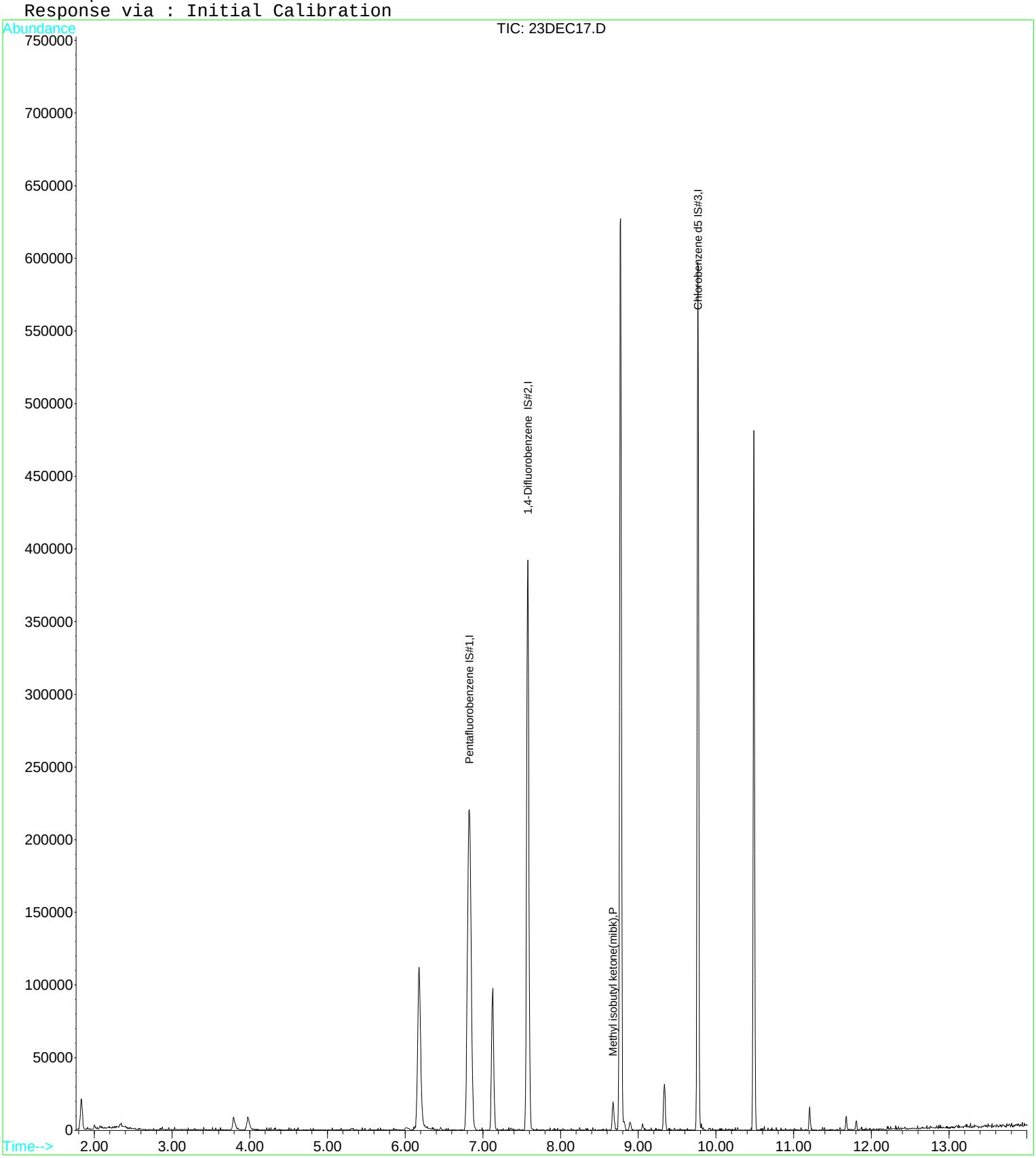
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	44000	10.00	ug/L	0.02
29) 1,4-Difluorobenzene IS#2	7.57	63	67575	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	96759	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.68	43	13248	6.77	ug/L	99

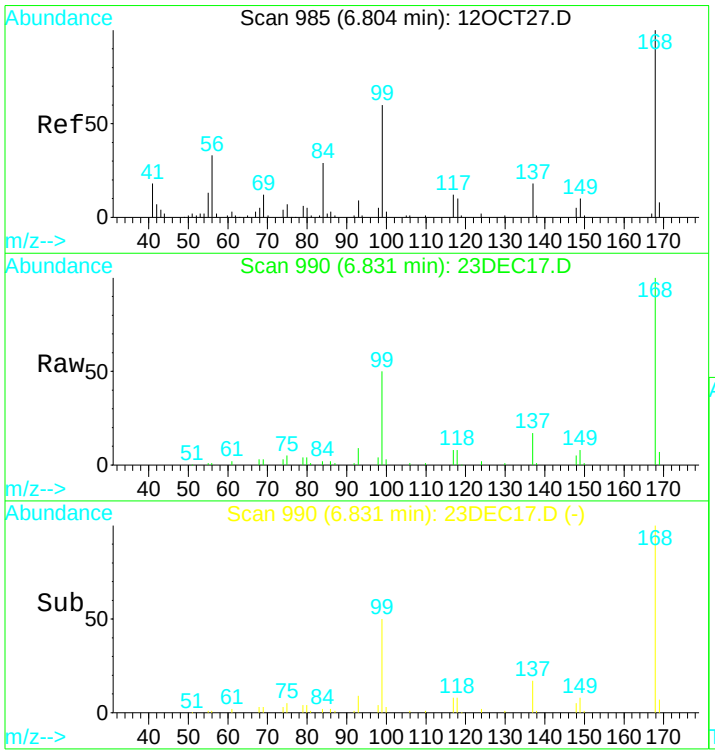
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC17.D Vial: 17
Acq On : 23 Dec 2021 11:07 am Operator: MGC
Sample : 2139227-11 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 11:23 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

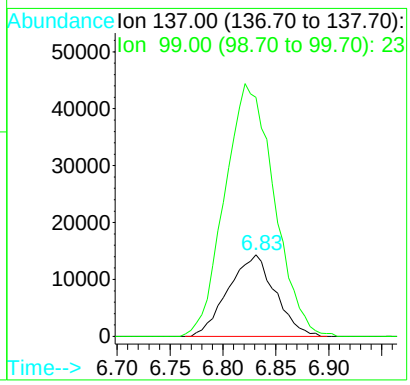


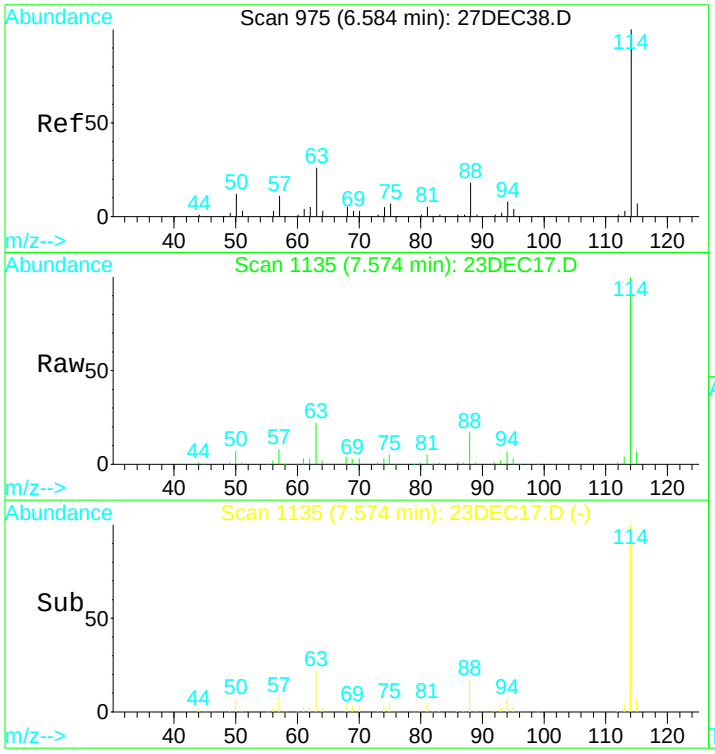


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion:137 Resp: 44000

Ion	Ratio	Lower	Upper
137	100		
99	327.3	245.3	455.5

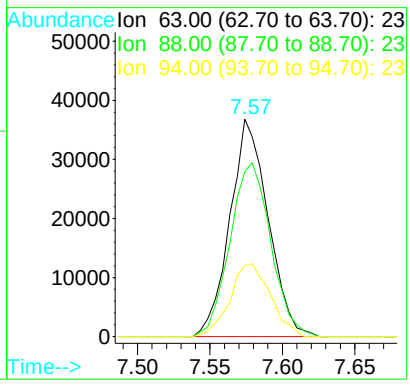


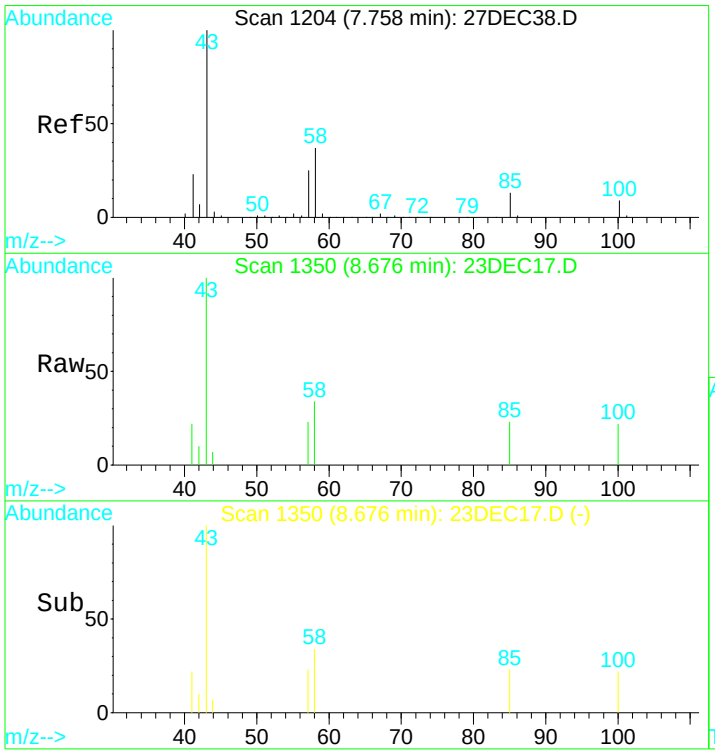


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1135
Delta R.T. 0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 63 Resp: 67575

Ion	Ratio	Lower	Upper
63	100		
88	85.2	59.4	110.2
94	35.4	26.3	48.9

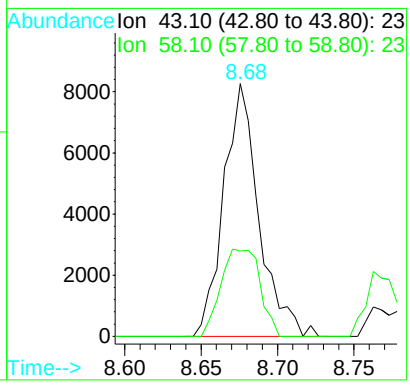


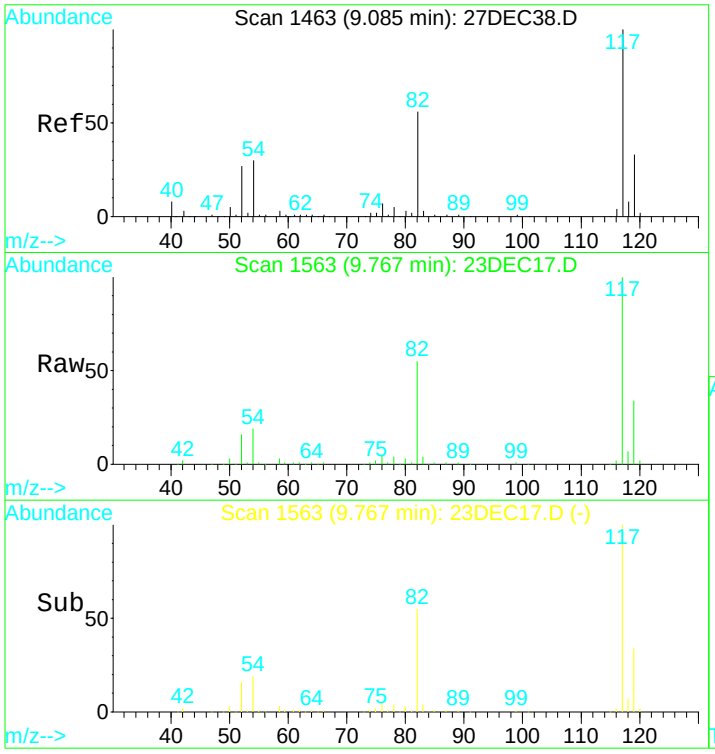


#33
Methyl isobutyl ketone(mibk)
Concen: 6.77 ug/L
RT: 8.68 min Scan# 1350
Delta R.T. -0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion: 43 Resp: 13248

Ion	Ratio	Lower	Upper
43	100		
58	38.2	27.4	50.8

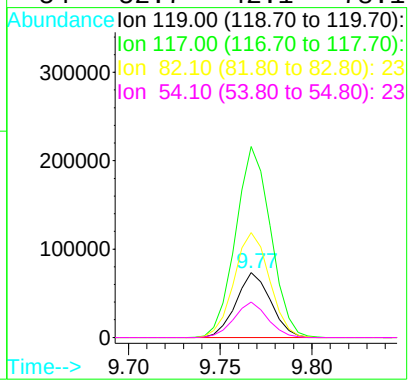




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1563
Delta R.T. -0.00 min
Lab File: 23DEC17.D
Acq: 23 Dec 2021 11:07 am

Tgt Ion:119 Resp: 96759

Ion	Ratio	Lower	Upper
119	100		
117	297.1	216.5	402.1
82	164.7	123.3	228.9
54	52.7	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC18.D Vial: 18
Acq On : 23 Dec 2021 11:31 am Operator: MGC
Sample : 2139227-12 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:02 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	43210	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	67540	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	93227	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	73928	9.07	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 90.70%			
33) Toluene d8 SMC#2	8.77	98	408900	10.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.20%			
51) Bromofluorobenzene SMC#3	10.49	95	128790	9.25	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.50%			

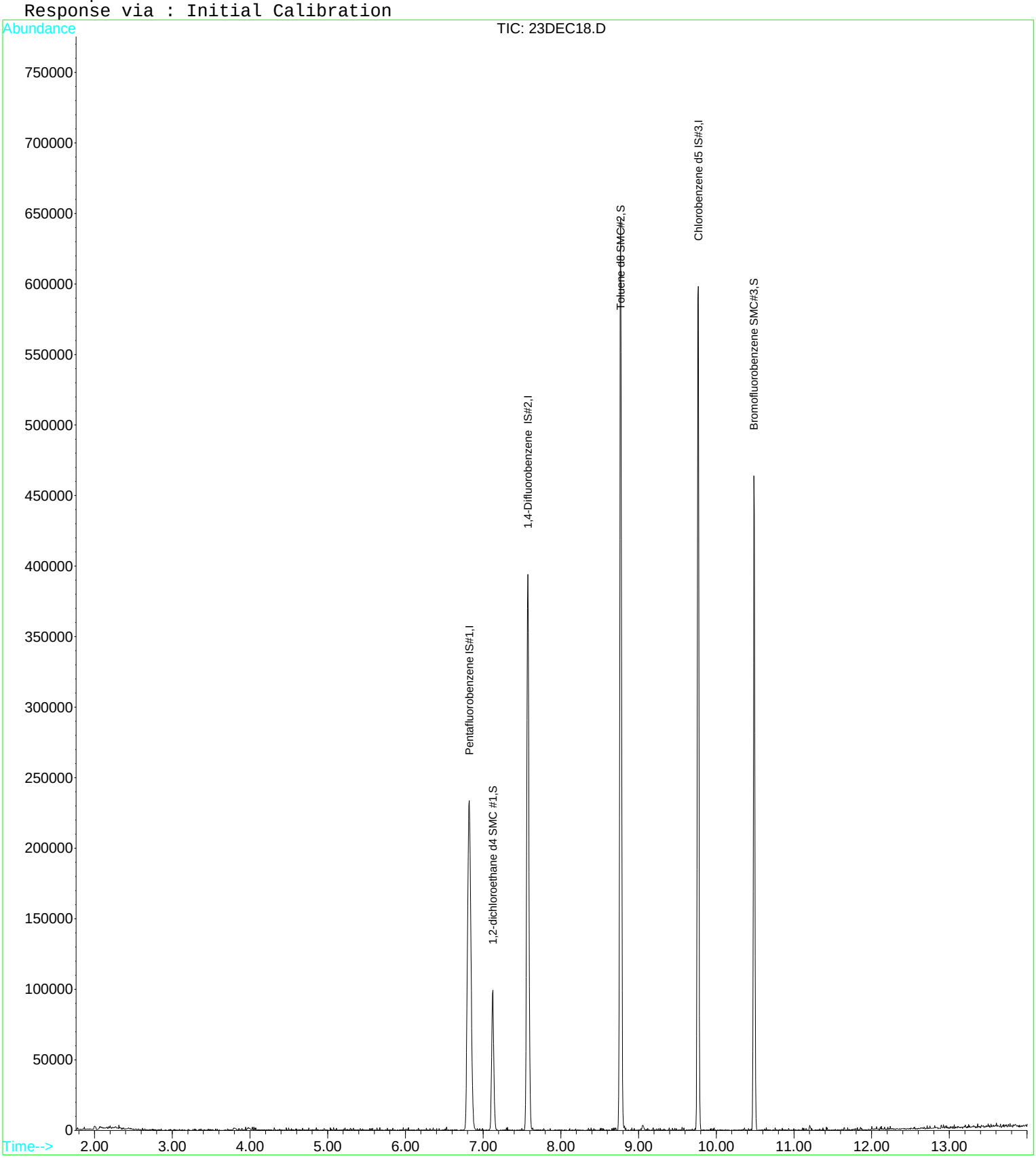
Target Compounds Qvalue

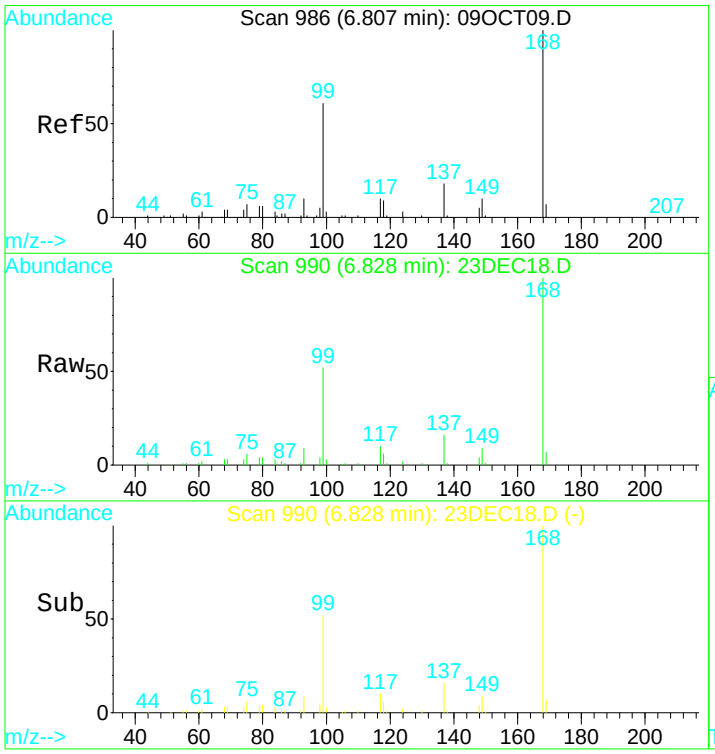
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC18.D Vial: 18
Acq On : 23 Dec 2021 11:31 am Operator: MGC
Sample : 2139227-12 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:02 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

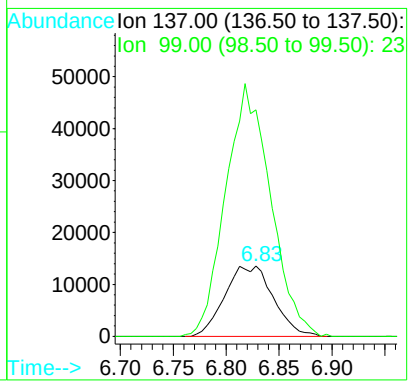


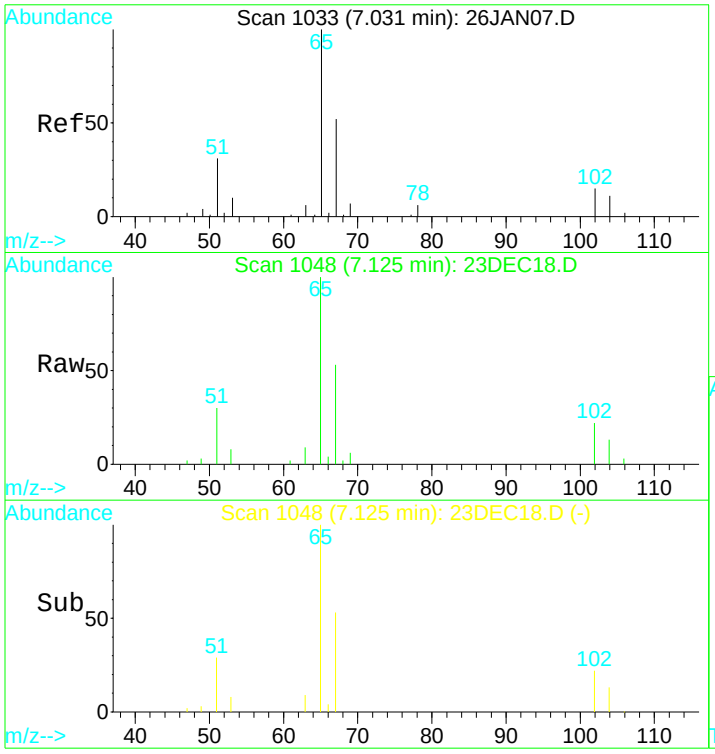


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion:137 Resp: 43210

Ion	Ratio	Lower	Upper
137	100		
99	331.3	1431.5	2658.5#

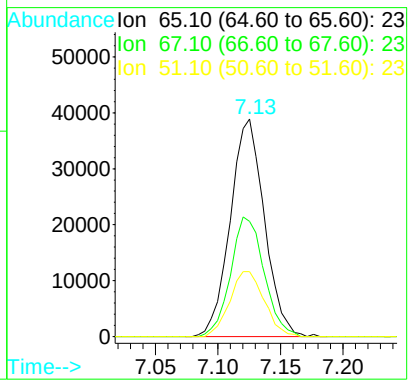


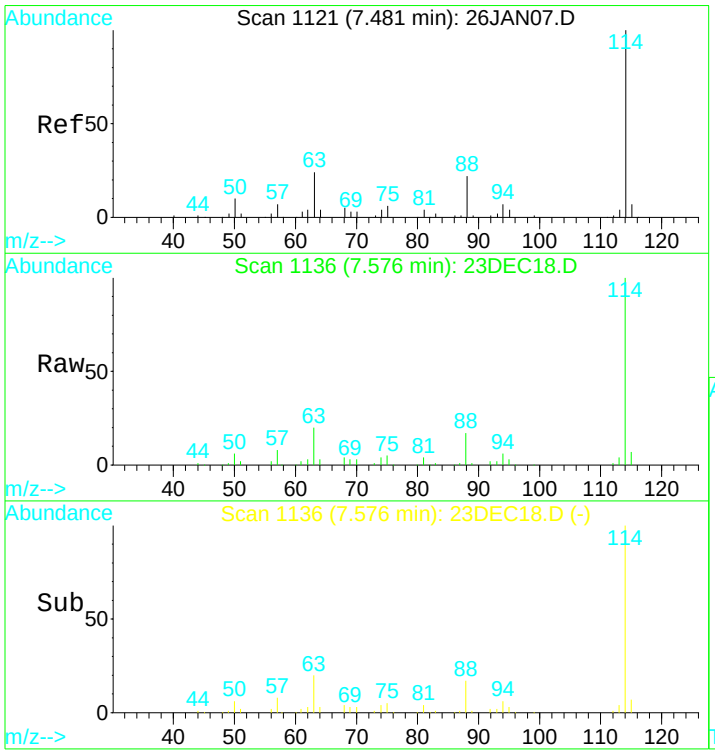


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.13 min Scan# 1048
Delta R.T. 0.00 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion: 65 Resp: 73928

Ion	Ratio	Lower	Upper
65	100		
67	53.8	33.0	61.4
51	30.2	302.3	561.3#

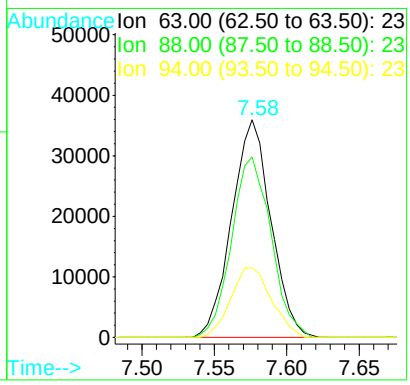


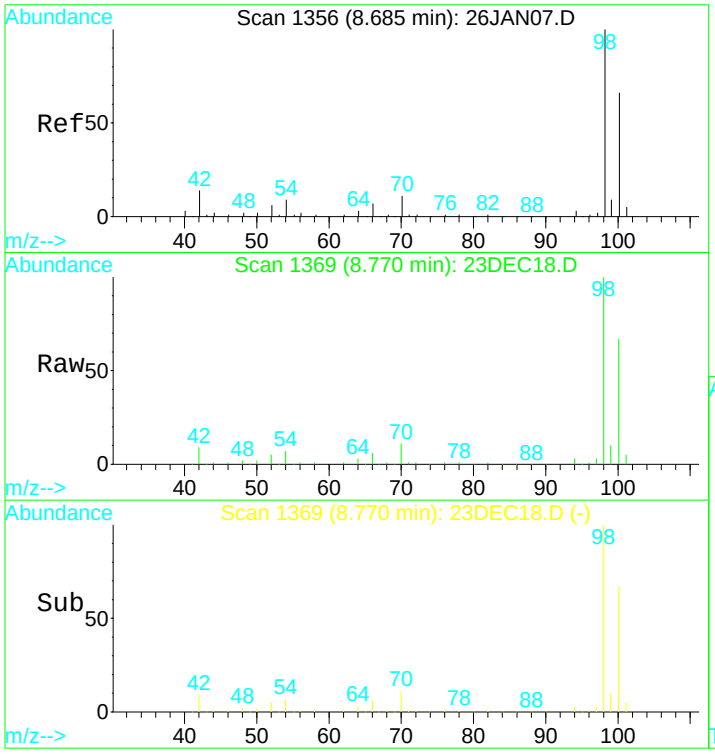


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion: 63 Resp: 67540

Ion	Ratio	Lower	Upper
63	100		
88	83.5	57.7	107.3
94	33.3	25.6	47.4

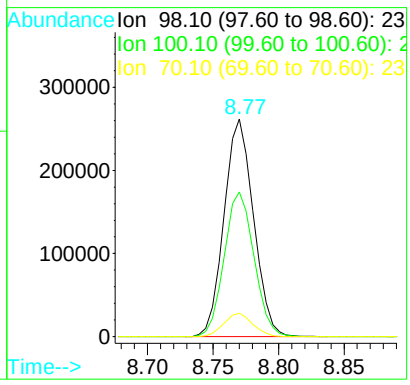


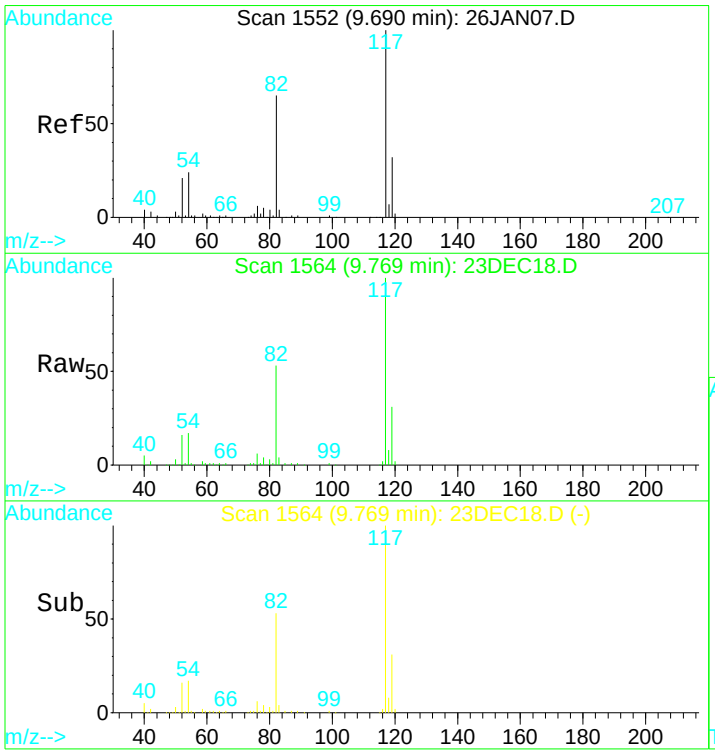


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. 0.00 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion: 98 Resp: 408900

Ion	Ratio	Lower	Upper
98	100		
100	67.1	46.0	85.4
70	10.5	8.2	15.2

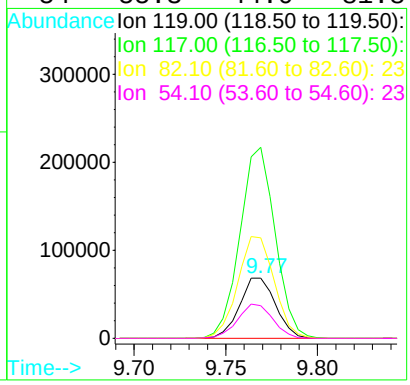


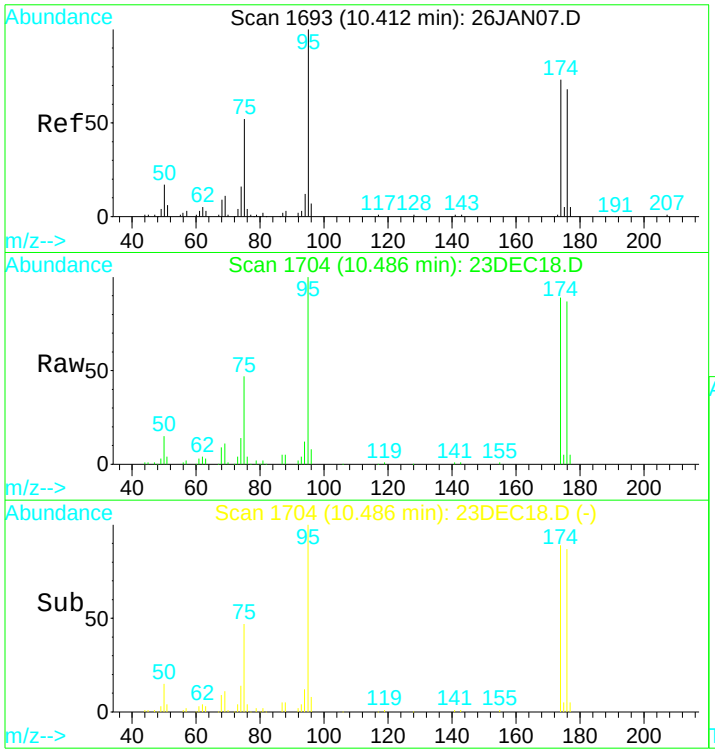


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion:119 Resp: 93227

Ion	Ratio	Lower	Upper
119	100		
117	310.3	215.8	400.8
82	170.8	123.7	229.7
54	55.3	44.0	81.8

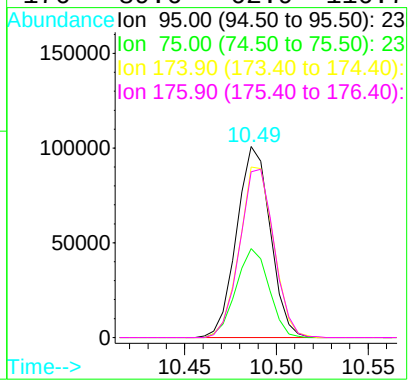




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.00 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion: 95 Resp: 128790

Ion	Ratio	Lower	Upper
95	100		
75	45.5	35.4	65.8
174	90.4	63.8	118.4
176	89.6	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC18.D Vial: 18
Acq On : 23 Dec 2021 11:31 am Operator: MGC
Sample : 2139227-12 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:03 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	43210	10.00	ug/L	0.02
29) 1,4-Difluorobenzene IS#2	7.58	63	67540	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	93227	10.00	ug/L	0.00

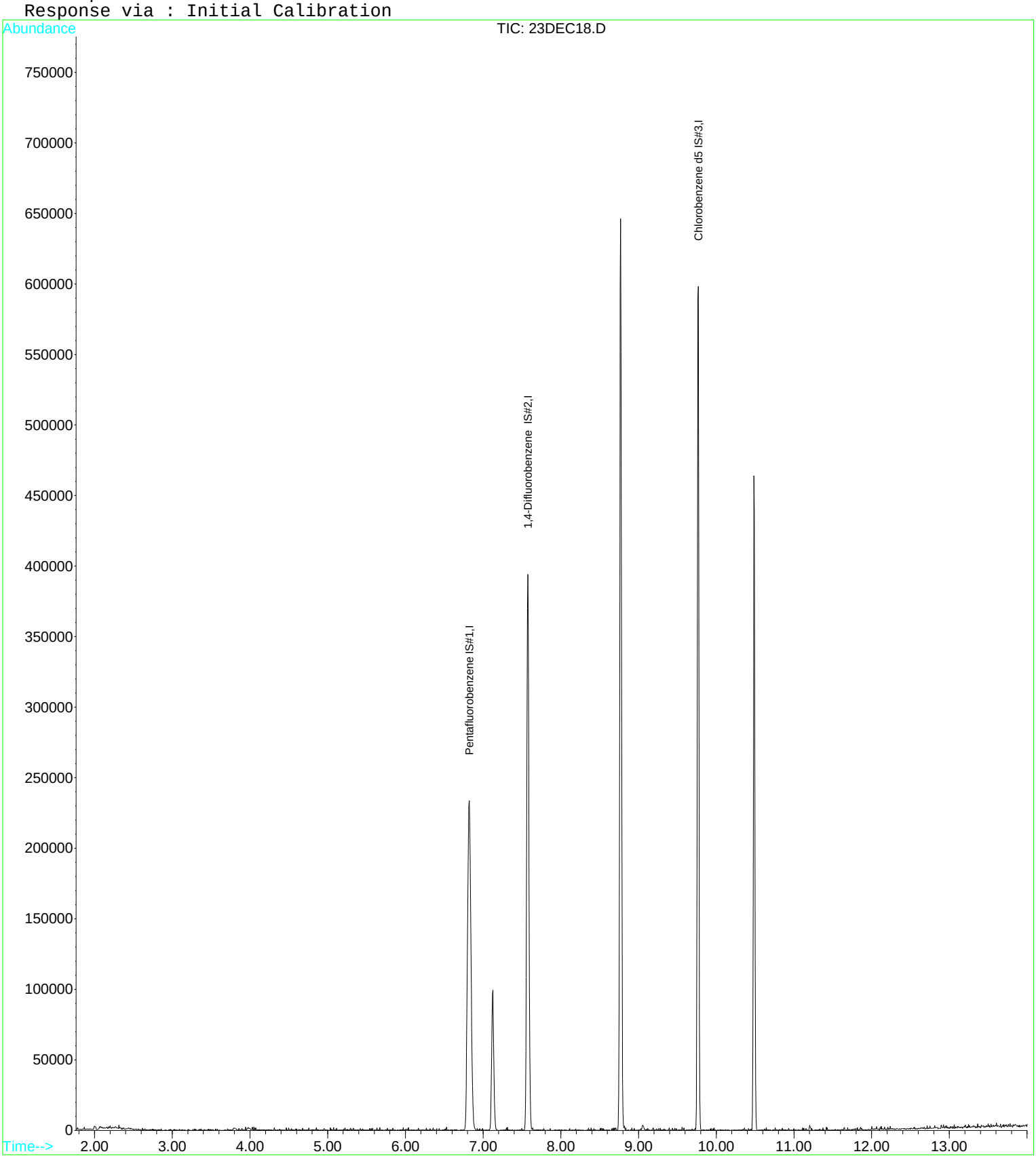
Target Compounds Qvalue

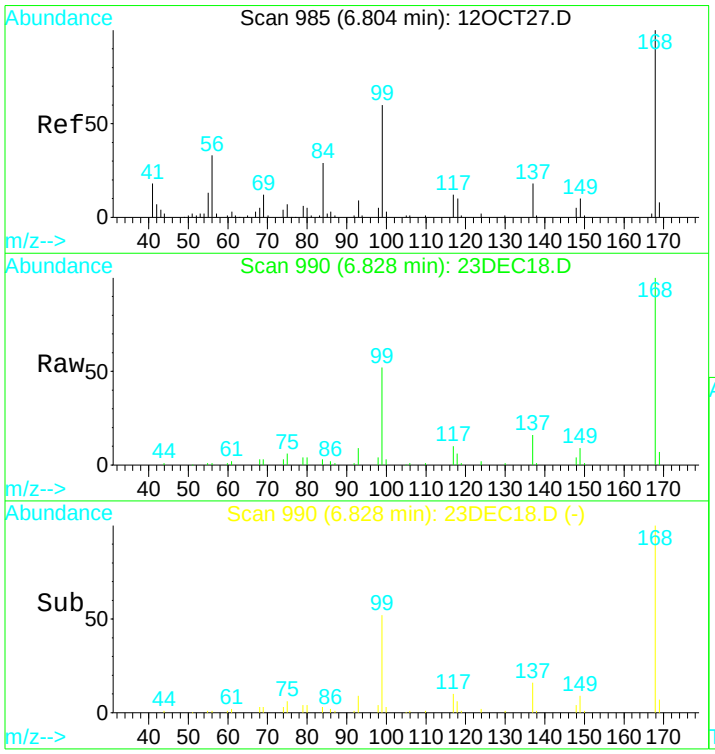
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC18.D Vial: 18
Acq On : 23 Dec 2021 11:31 am Operator: MGC
Sample : 2139227-12 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:03 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

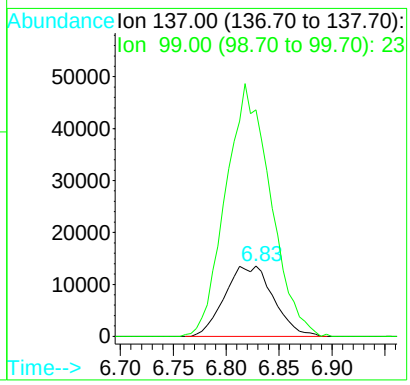


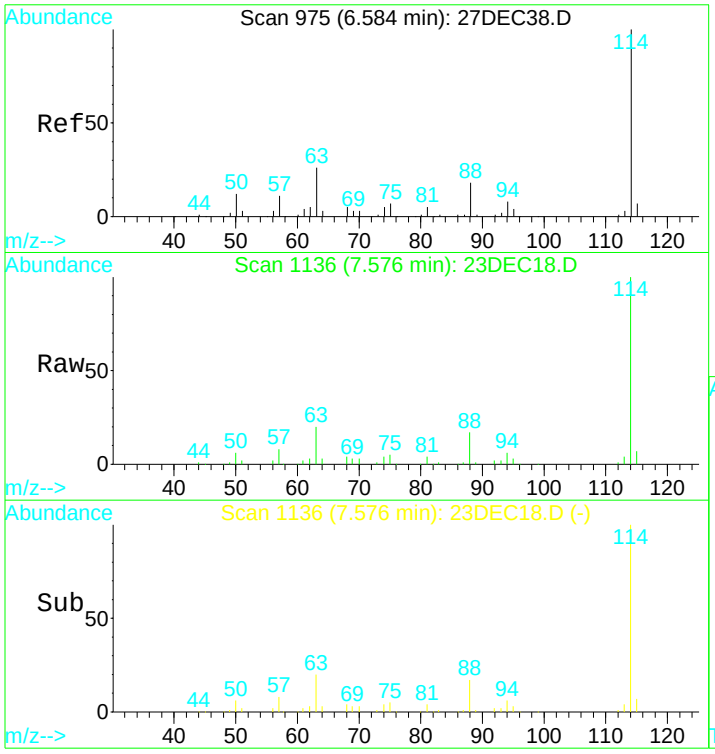


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.83 min Scan# 990
Delta R.T. 0.02 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion:137 Resp: 43210

Ion	Ratio	Lower	Upper
137	100		
99	331.3	245.3	455.5

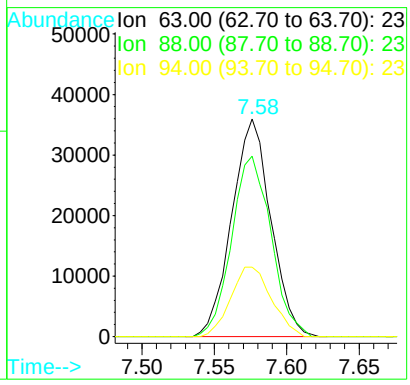


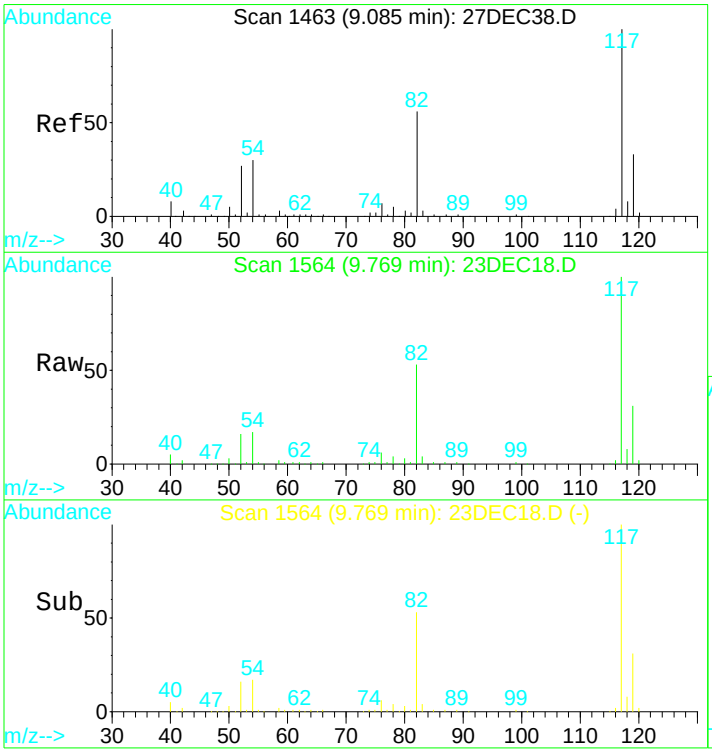


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.58 min Scan# 1136
Delta R.T. 0.01 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion: 63 Resp: 67540

Ion	Ratio	Lower	Upper
63	100		
88	83.5	59.4	110.2
94	33.3	26.3	48.9

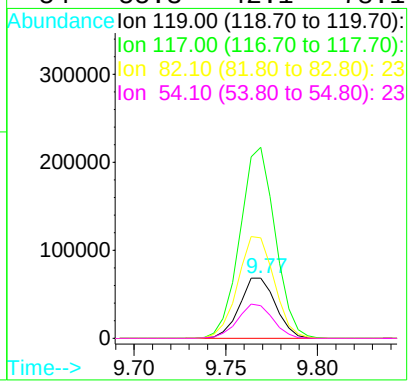




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. 0.00 min
Lab File: 23DEC18.D
Acq: 23 Dec 2021 11:31 am

Tgt Ion:119 Resp: 93227

Ion	Ratio	Lower	Upper
119	100		
117	310.3	216.5	402.1
82	170.8	123.3	228.9
54	55.3	42.1	78.1



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC28.D Vial: 28
Acq On : 23 Dec 2021 3:34 pm Operator: MGC
Sample : 2139227-13 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:52 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

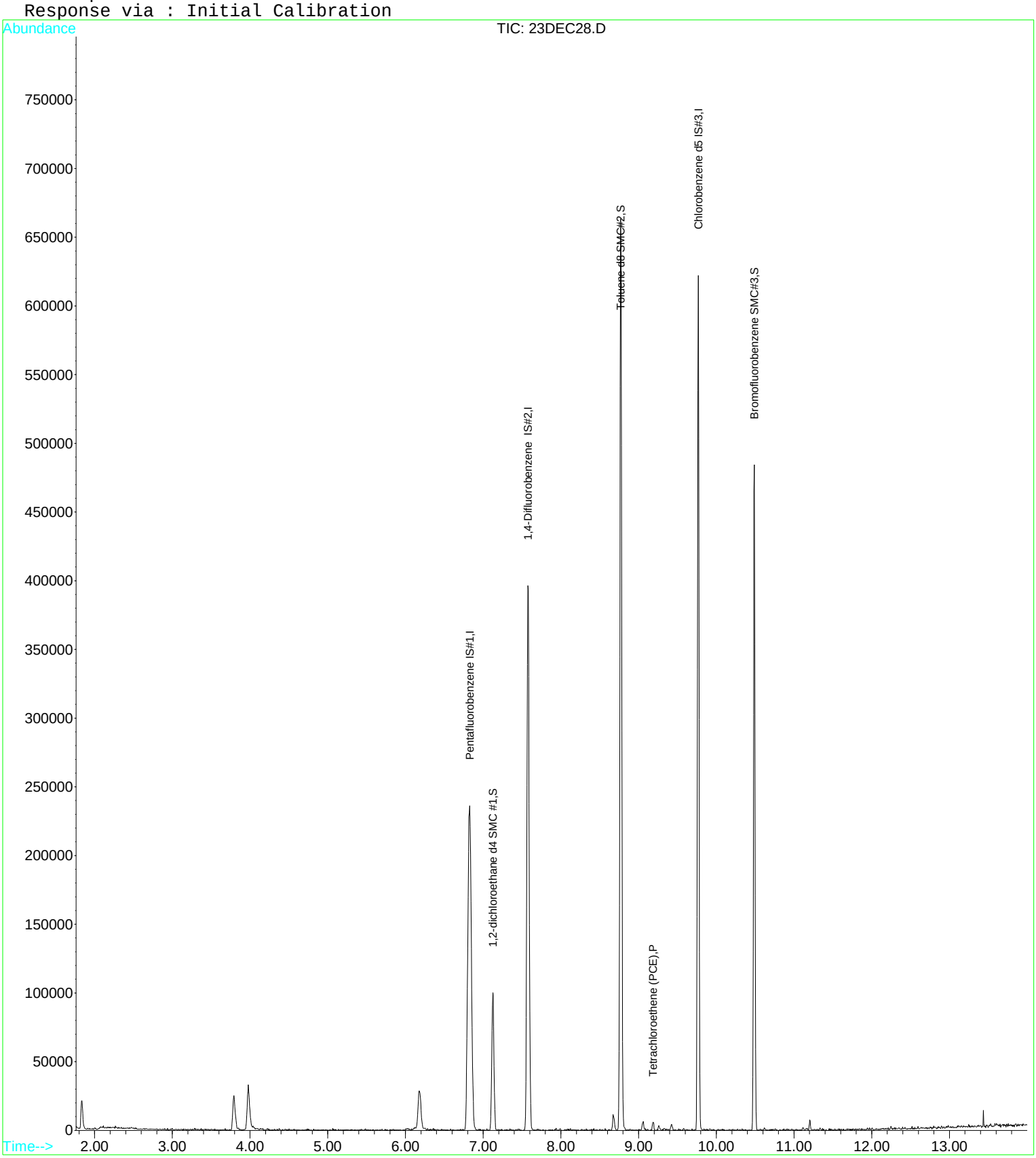
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45227	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.57	63	69381	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	99152	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	75895	8.89	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.90%			
33) Toluene d8 SMC#2	8.77	98	426472	11.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 110.80%			
51) Bromofluorobenzene SMC#3	10.49	95	136233	9.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.00%			
Target Compounds						Qvalue
37) Tetrachloroethene (PCE)	9.18	166	1752	0.12	ug/L	92

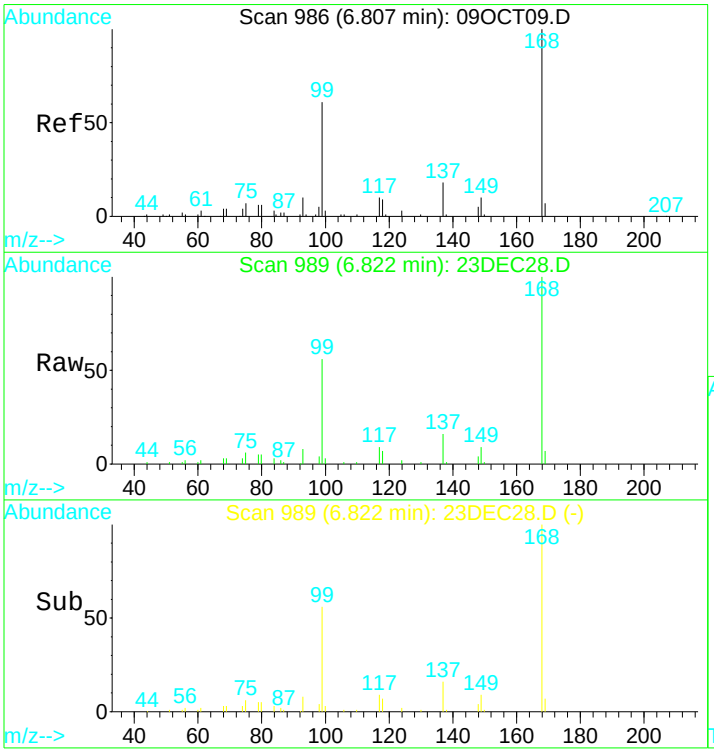
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC28.D Vial: 28
Acq On : 23 Dec 2021 3:34 pm Operator: MGC
Sample : 2139227-13 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:52 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration

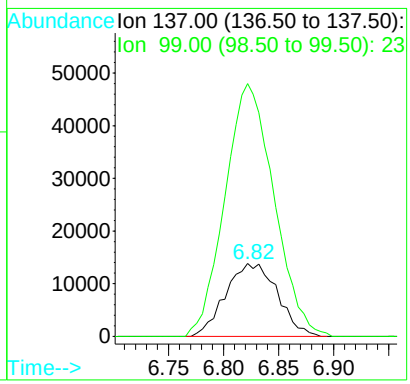


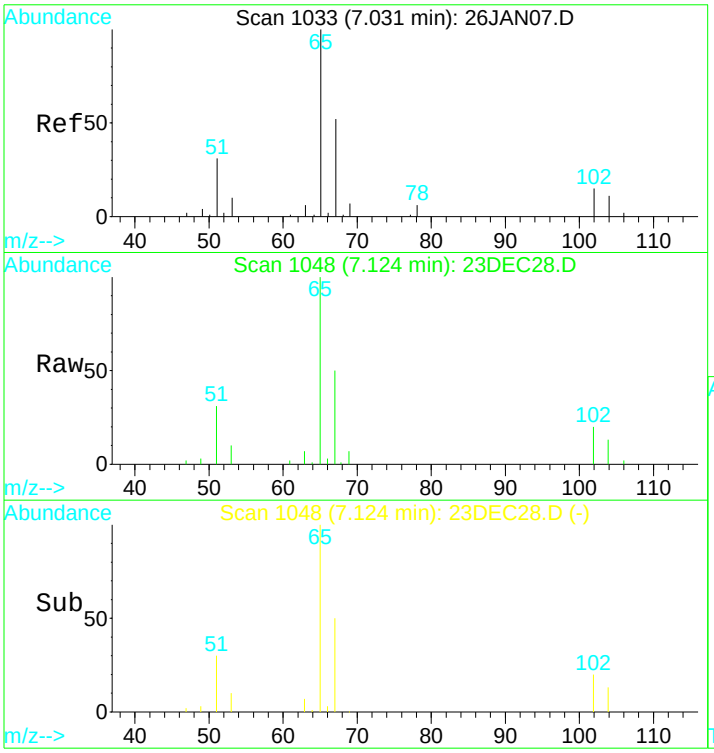


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion:137 Resp: 45227

Ion	Ratio	Lower	Upper
137	100		
99	328.2	1431.5	2658.5#

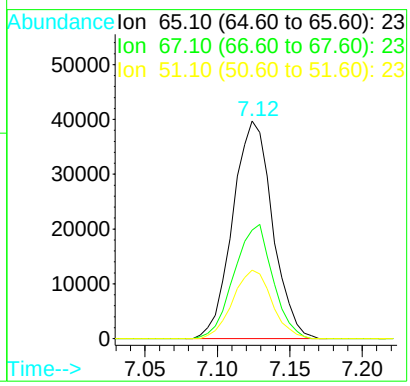


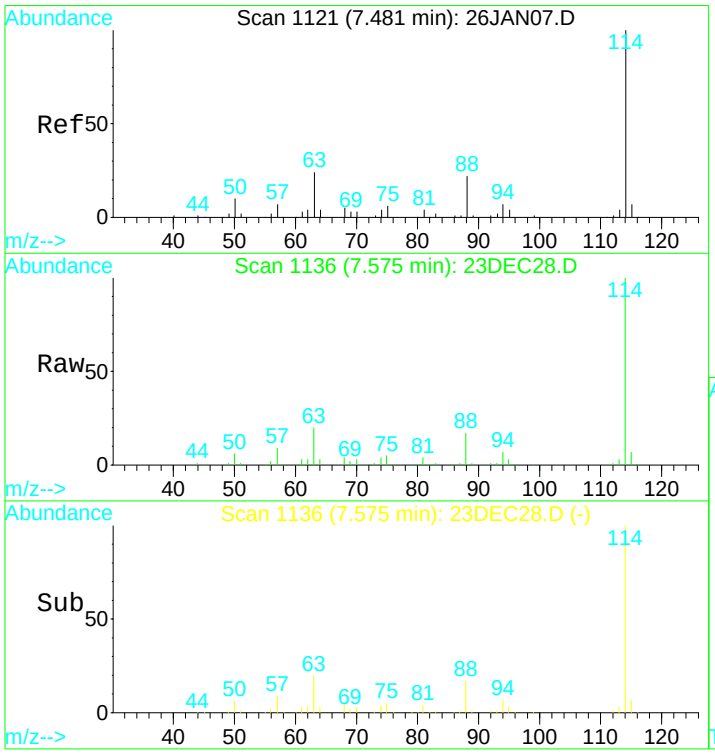


#23
1,2-dichloroethane d4 SMC #1
Concen: N.D. ug/L
RT: 7.12 min Scan# 1048
Delta R.T. -0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 65 Resp: 75895

Ion	Ratio	Lower	Upper
65	100		
67	50.8	33.0	61.4
51	30.8	302.3	561.3#

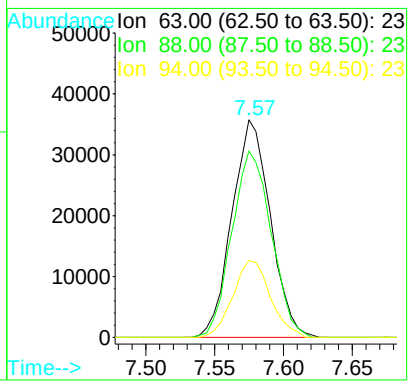


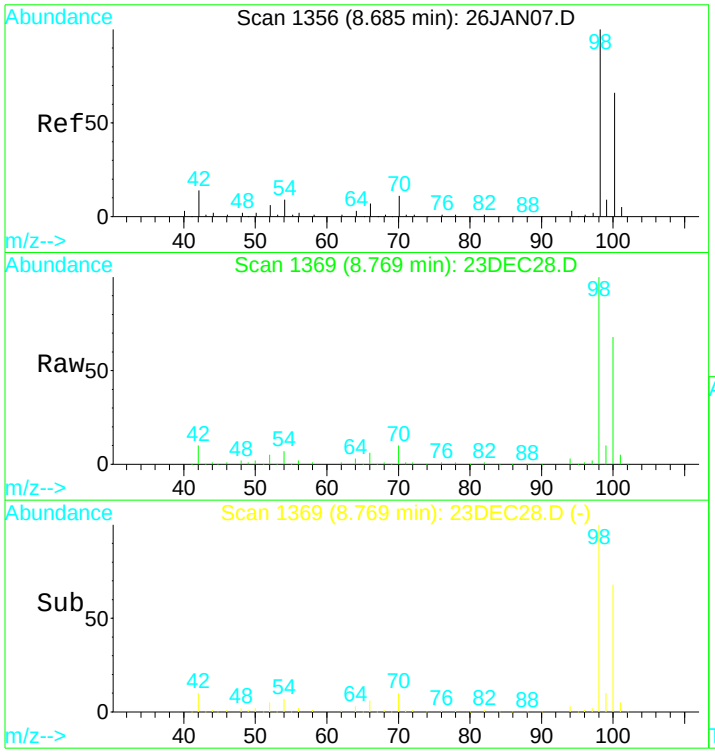


#26
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 63 Resp: 69381

Ion	Ratio	Lower	Upper
63	100		
88	88.0	57.7	107.3
94	34.6	25.6	47.4

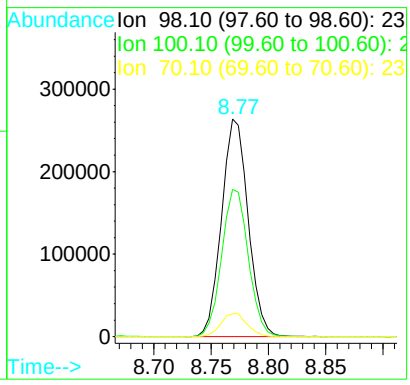


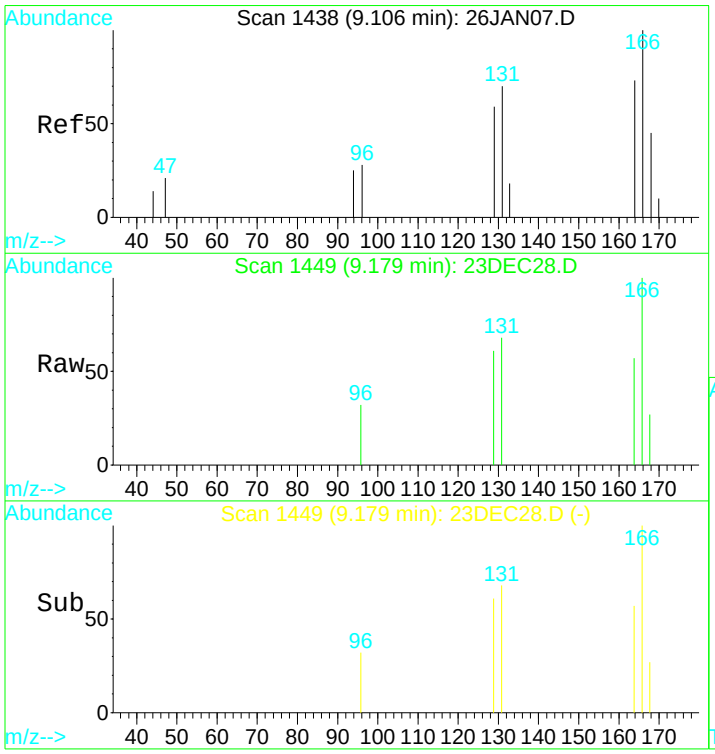


#33
Toluene d8 SMC#2
Concen: N.D. ug/L
RT: 8.77 min Scan# 1369
Delta R.T. -0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 98 Resp: 426472

Ion	Ratio	Lower	Upper
98	100		
100	67.6	46.0	85.4
70	10.5	8.2	15.2

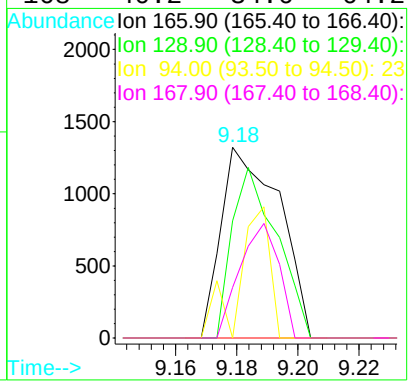


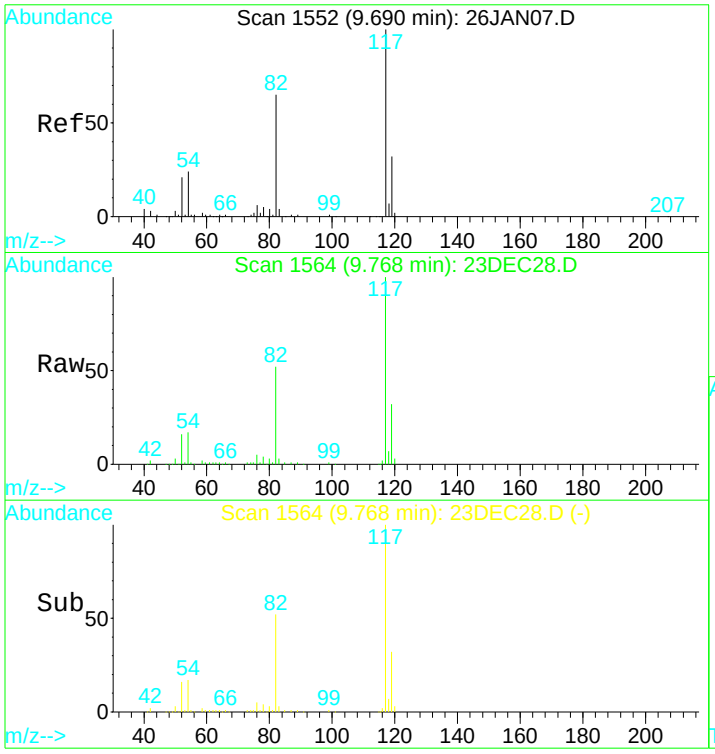


#37
Tetrachloroethene (PCE)
Concen: 0.12 ug/L
RT: 9.18 min Scan# 1449
Delta R.T. -0.01 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion:166 Resp: 1752

Ion	Ratio	Lower	Upper
166	100		
129	68.6	48.4	89.8
94	36.5	32.1	59.7
168	40.2	34.6	64.2

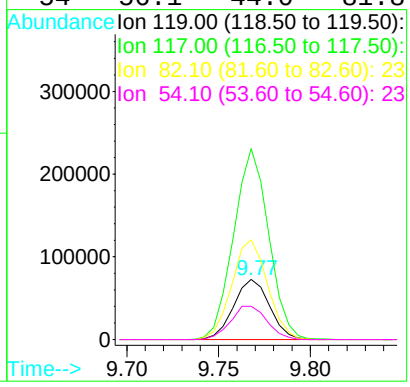


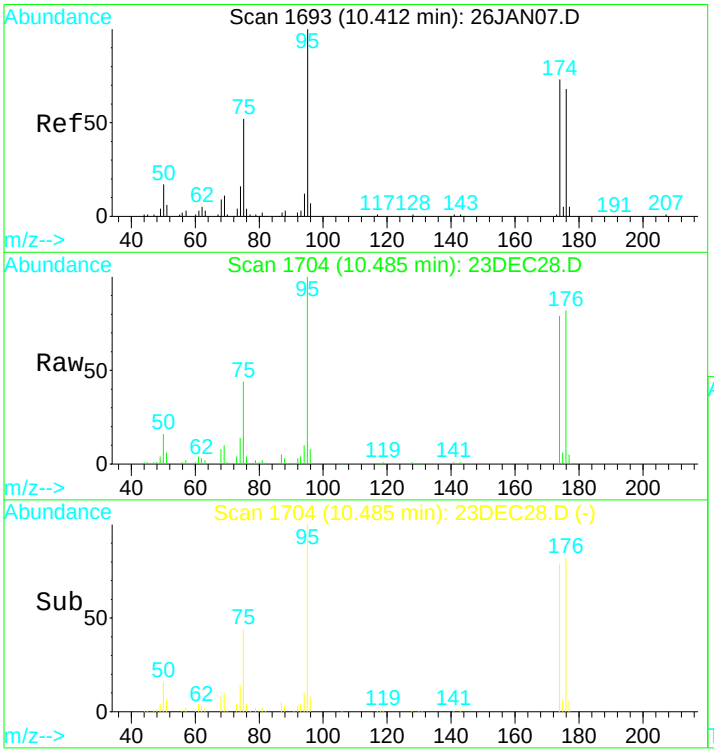


#41
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion:119 Resp: 99152

Ion	Ratio	Lower	Upper
119	100		
117	309.1	215.8	400.8
82	164.2	123.7	229.7
54	56.1	44.0	81.8

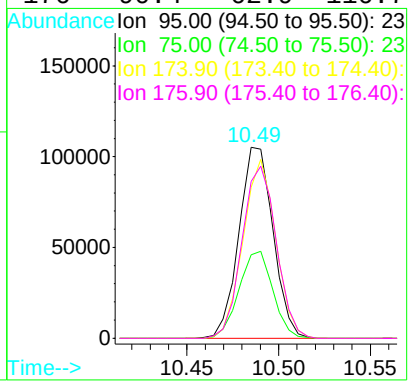




#51
Bromofluorobenzene SMC#3
Concen: N.D. ug/L
RT: 10.49 min Scan# 1704
Delta R.T. -0.01 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 95 Resp: 136233

Ion	Ratio	Lower	Upper
95	100		
75	45.0	35.4	65.8
174	89.9	63.8	118.4
176	90.4	62.9	116.7



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC28.D Vial: 28
Acq On : 23 Dec 2021 3:34 pm Operator: MGC
Sample : 2139227-13 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:54 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

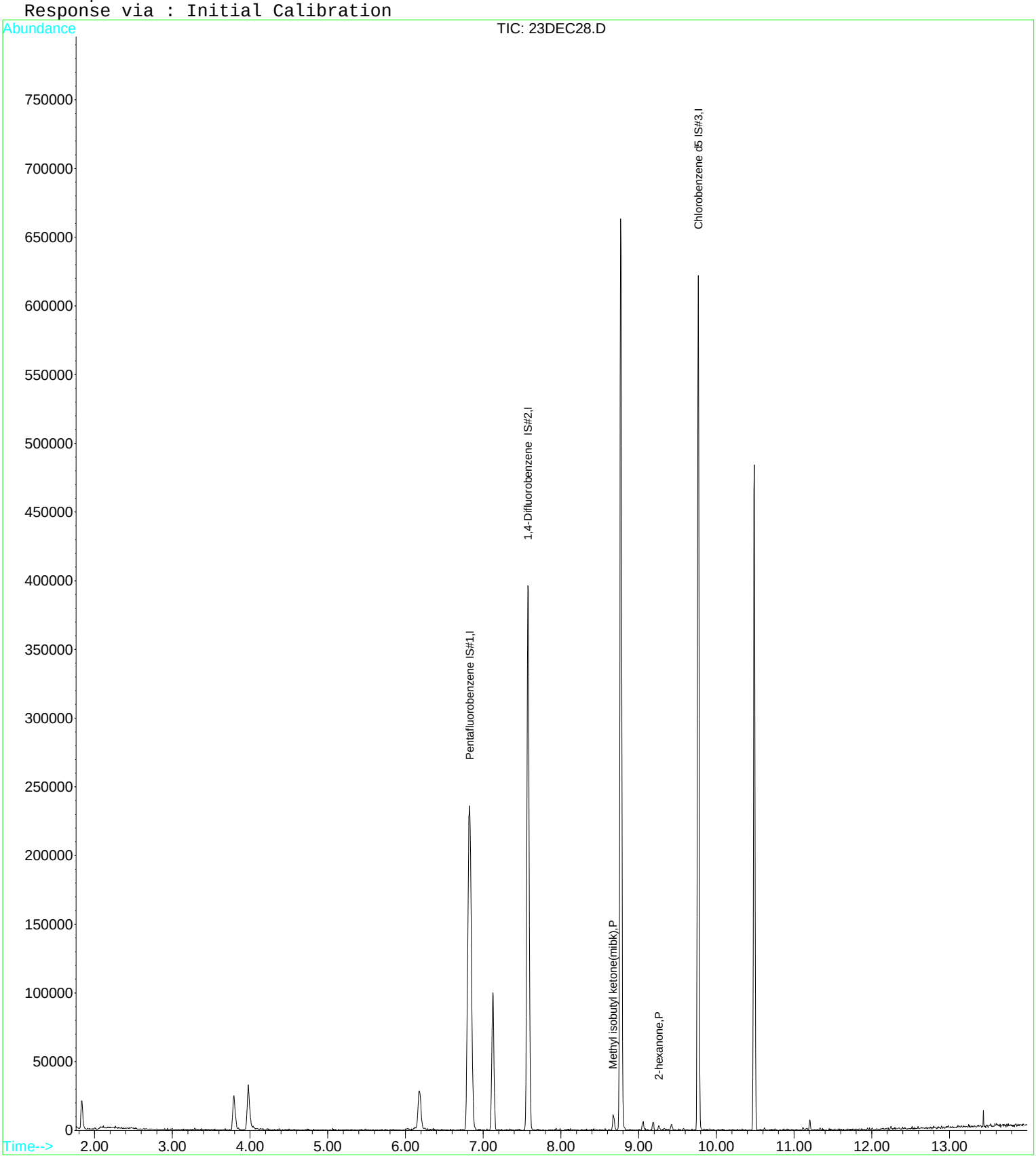
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45227	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	69381	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	99152	10.00	ug/L	0.00
Target Compounds						Qvalue
33) Methyl isobutyl ketone(mib	8.67	43	7939	3.95	ug/L	96
35) 2-hexanone	9.26	43	1966	1.43	ug/L	100

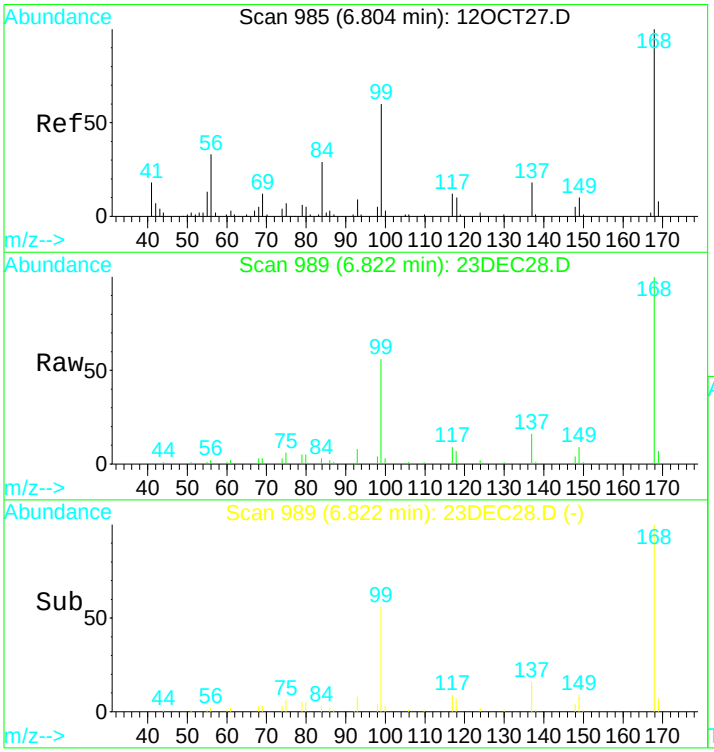
(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC28.D Vial: 28
Acq On : 23 Dec 2021 3:34 pm Operator: MGC
Sample : 2139227-13 Inst : MS-V5
Misc : 1 ;25ML;pH=2 Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:54 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration

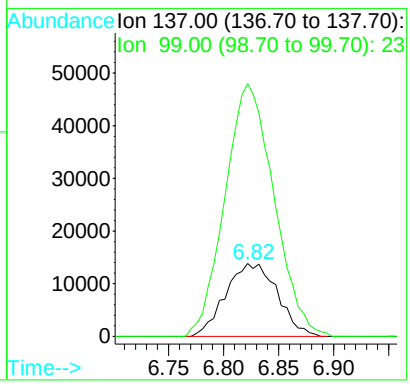


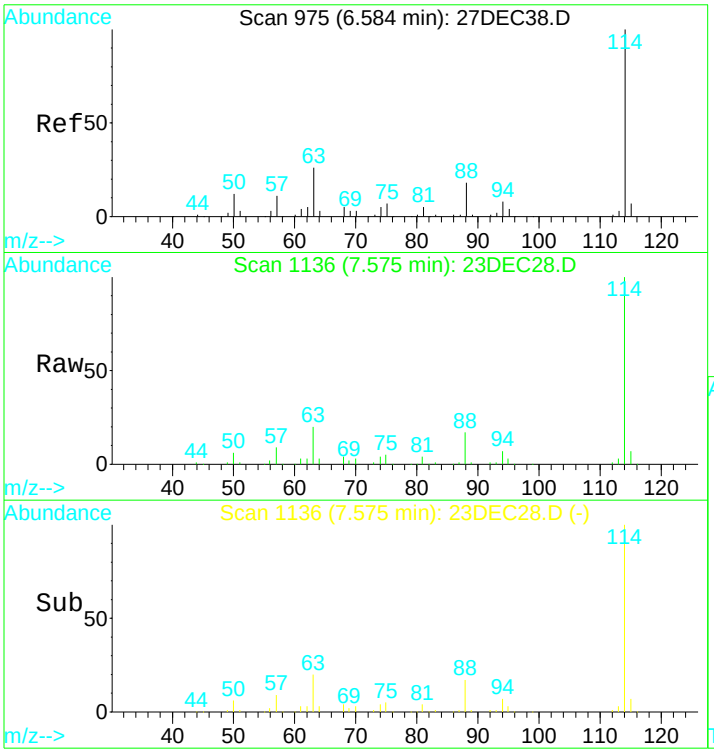


#1
Pentafluorobenzene IS#1
Concen: 10.00 ug/L
RT: 6.82 min Scan# 989
Delta R.T. 0.01 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion:137 Resp: 45227

Ion	Ratio	Lower	Upper
137	100		
99	328.2	245.3	455.5

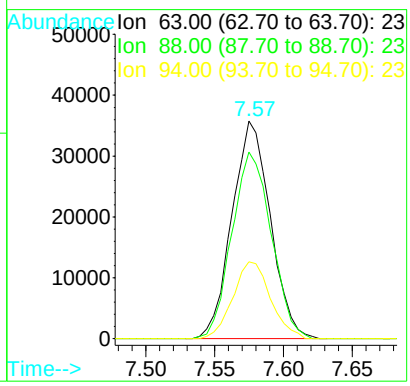


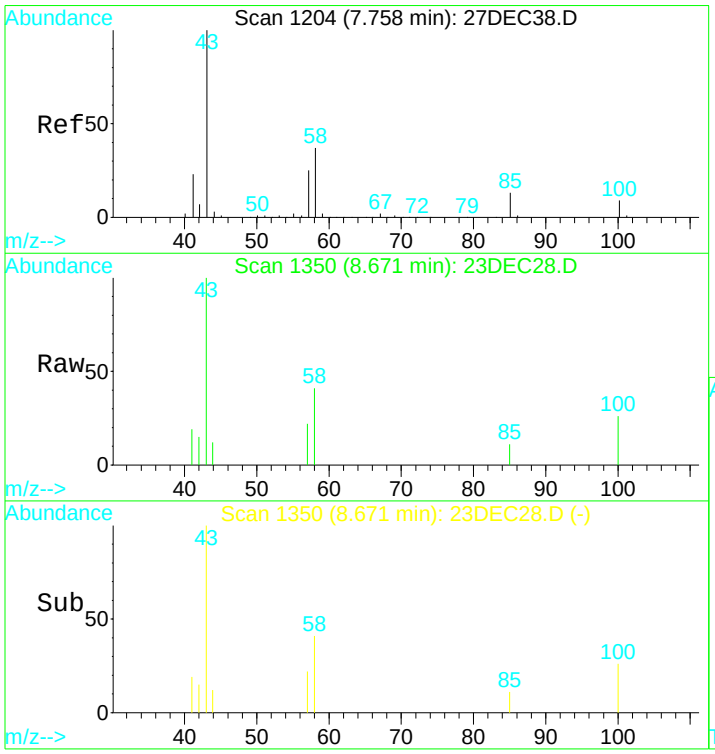


#29
1,4-Difluorobenzene IS#2
Concen: 10.00 ug/L
RT: 7.57 min Scan# 1136
Delta R.T. 0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 63 Resp: 69381

Ion	Ratio	Lower	Upper
63	100		
88	88.0	59.4	110.2
94	34.6	26.3	48.9

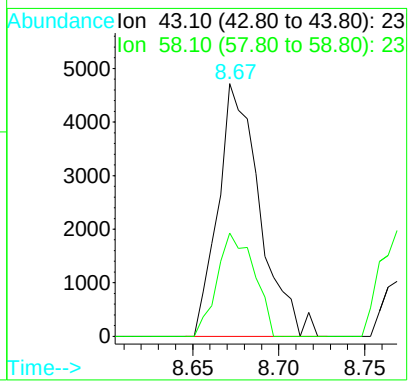


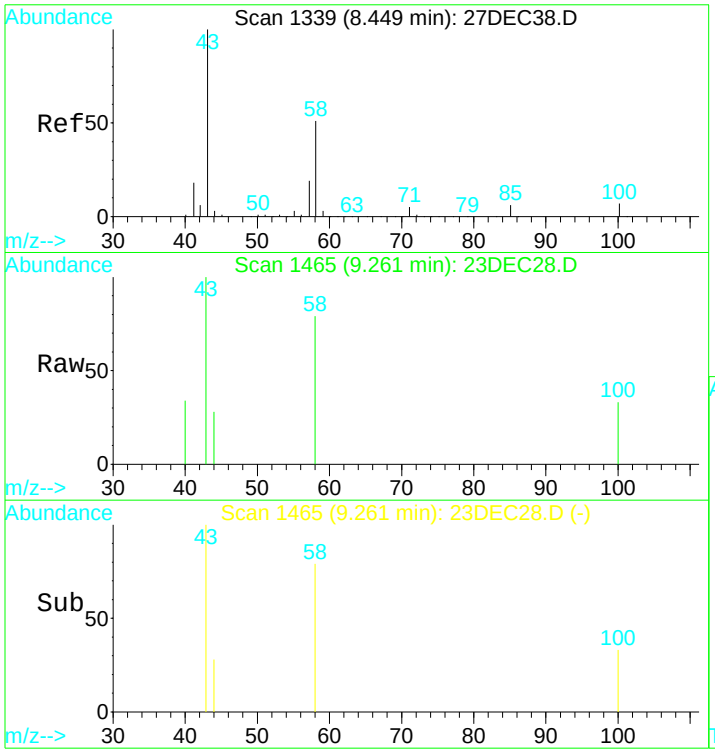


#33
Methyl isobutyl ketone(mibk)
Concen: 3.95 ug/L
RT: 8.67 min Scan# 1350
Delta R.T. -0.01 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 43 Resp: 7939

Ion	Ratio	Lower	Upper
43	100		
58	36.4	27.4	50.8

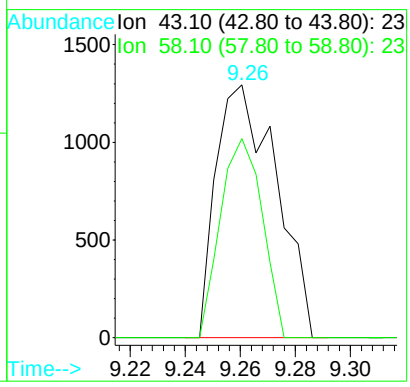


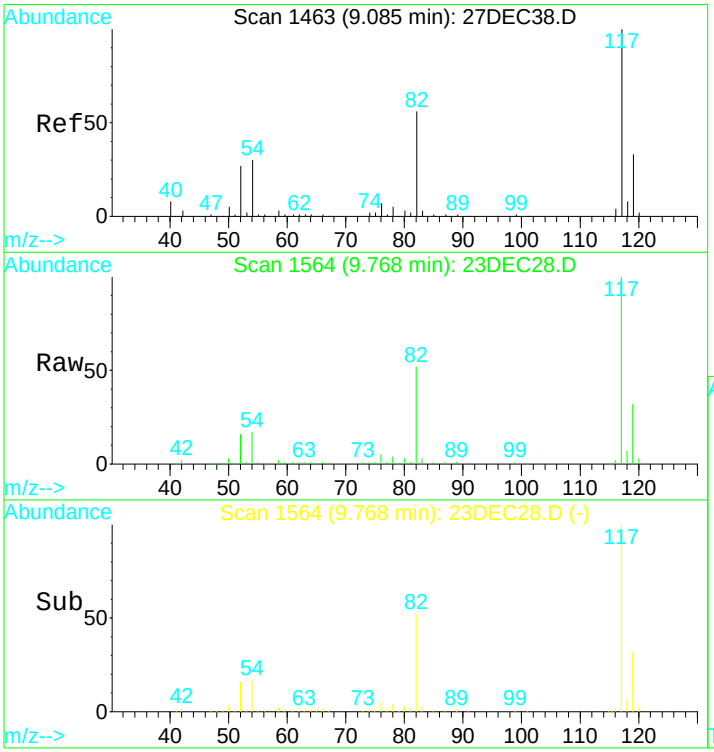


#35
2-hexanone
Concen: 1.43 ug/L
RT: 9.26 min Scan# 1465
Delta R.T. -0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion: 43 Resp: 1966

Ion	Ratio	Lower	Upper
43	100		
58	54.8	38.1	70.9

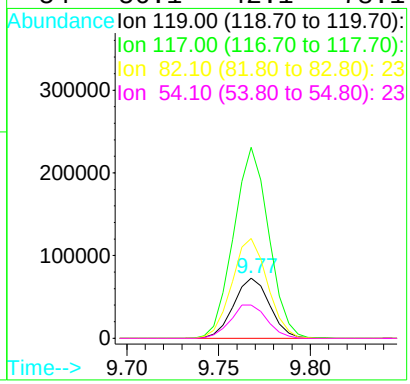




#36
Chlorobenzene d5 IS#3
Concen: 10.00 ug/L
RT: 9.77 min Scan# 1564
Delta R.T. -0.00 min
Lab File: 23DEC28.D
Acq: 23 Dec 2021 3:34 pm

Tgt Ion:119 Resp: 99152

Ion	Ratio	Lower	Upper
119	100		
117	309.1	216.5	402.1
82	164.2	123.3	228.9
54	56.1	42.1	78.1



Raw Data - Calibration Standards

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC03.D Vial: 3
Acq On : 12 Dec 2021 7:10 am Operator: MGC
Sample : 2125249-CAL1 Inst : MS-V5
Misc : 1;1L12061;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:53 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	50763	10.00	ug/L		-0.01
26) 1,4-Difluorobenzene IS#2	7.57	63	81542	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.76	119	99704	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	97393	11.67	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 116.70%				
33) Toluene d8 SMC#2	8.76	98	444617	9.11	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.10%				
51) Bromofluorobenzene SMC#3	10.49	95	140711	10.37	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.86	85	10793	0.68	ug/L		96
3) Chlorodifluoromethane	1.88	51	8550	1.15	ug/L	#	46
4) Chloromethane	2.07	50	5566	0.52	ug/L		96
5) Vinyl chloride	2.20	62	6932	0.55	ug/L		98
6) Bromomethane	2.59	94	4394	0.54	ug/L		94
7) Chloroethane	2.73	64	4846	0.45	ug/L		97
8) Dichlorofluoromethane	3.02	67	13947	0.65	ug/L	#	97
9) Trichlorofluoromethane	3.05	101	15289	0.61	ug/L		96
10) 1,1,2-Trichloro-1,2,2-trif	3.74	101	7184	0.52	ug/L	#	62
11) 1,1-Dichloroethene	3.72	61	10148	0.54	ug/L		90
12) Methylene chloride	4.37	84	4919	Below Cal			96
13) MTBE	4.72	73	7254	0.47	ug/L		92
14) T-1,2-dichloroethene	4.72	96	7432	0.51	ug/L		91
15) 1,1-Dichloroethane	5.29	63	12296	0.52	ug/L		94
16) 2,2-Dichloropropane	6.11	77	9838	0.54	ug/L		96
17) Cis-1,2-dichloroethene	6.11	96	7240	0.48	ug/L		92
18) Bromochloromethane	6.44	128	1912	0.40	ug/L		80
19) Chloroform	6.57	83	12782	0.56	ug/L		99
20) 1,1,1-Trichloroethane	6.76	97	13360	0.63	ug/L	#	38
21) 1,1-Dichloropropene	6.94	75	9581	0.50	ug/L		95
22) Carbon tetrachloride	6.92	119	7436	0.64	ug/L		91
24) 1,2-Dichloroethane	7.20	62	5708	0.58	ug/L	#	88
25) Benzene	7.14	78	25537	0.46	ug/L	#	9
27) Trichloroethene	7.78	130	7722	0.49	ug/L		97
28) 1,2-Dichloropropane	8.00	63	4505	0.39	ug/L	#	77
29) Dibromomethane	8.07	93	2056	0.46	ug/L		93
30) Bromodichloromethane	8.22	83	5745	0.64	ug/L		93
31) 2-ceve	8.44	63	4115	1.50	ug/L	#	79
32) Cis-1,3-dichloropropene	8.56	75	5771	0.41	ug/L		91
34) Toluene	8.81	92	17813	0.51	ug/L		94
35) Trans-1,3-dichloropropene	8.97	75	4243	0.58	ug/L	#	80
36) 1,1,2-Trichloroethane	9.12	97	3025	0.46	ug/L		94
37) Tetrachloroethene (PCE)	9.18	166	8527	0.54	ug/L		99
38) 1,3-Dichloropropane	9.23	76	4447	0.42	ug/L		89
39) Dibromochloromethane	9.38	129	2171	0.58	ug/L	#	84
40) 1,2-Dibromoethane	9.47	107	2391	0.46	ug/L		96
42) Chlorobenzene	9.78	112	16105	0.52	ug/L		82
43) 1,1,1,2-Tetrachloroethane	9.84	131	4473	0.53	ug/L		88
44) Ethylbenzene	9.84	106	9260	0.51	ug/L	#	56
45) P+m-Xylene	9.92	106	20112	0.96	ug/L	#	50
46) O-Xylene	10.16	106	9221	0.47	ug/L		75
47) Styrene	10.17	104	12479	0.43	ug/L		89
48) Bromoform	10.29	173	884	0.75	ug/L	#	82
49) Isopropylbenzene	10.37	105	29645	0.56	ug/L		82
50) 1,1,2,2-Tetrachloroethane	10.55	83	2205	0.43	ug/L		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC03.D Vial: 3
Acq On : 12 Dec 2021 7:10 am Operator: MGC
Sample : 2125249-CAL1 Inst : MS-V5
Misc : 1;1L12061;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:53 2021 Quant Results File: 82605C.RES

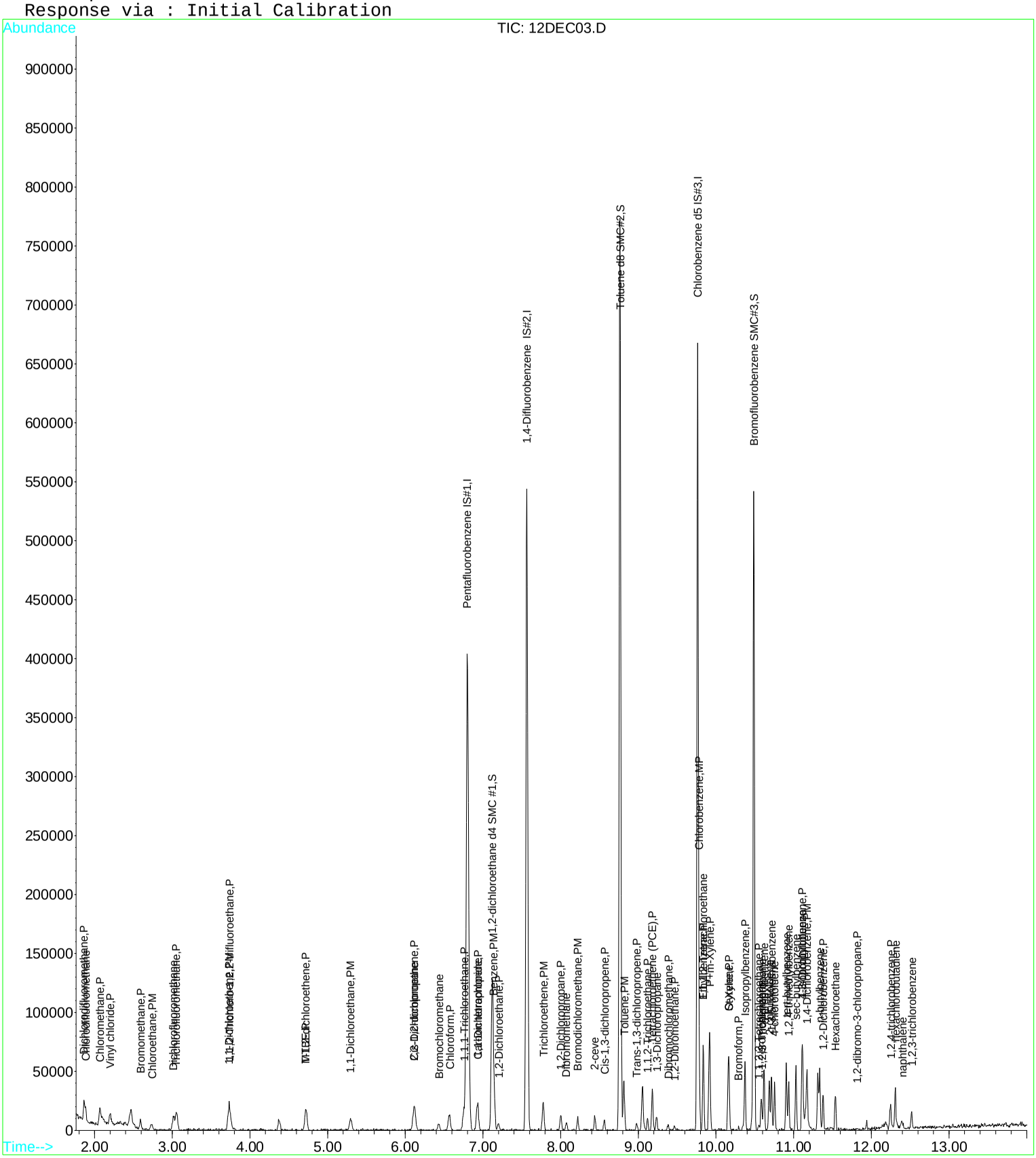
Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	1,2,3-Trichloropropane	10.60	110	641	0.45	ug/L	#	74
53)	n-propylbenzene	10.62	91	33848	0.55	ug/L	#	82
54)	bromobenzene	10.58	156	6241	0.53	ug/L		95
55)	1,3,5-trimethylbenzene	10.71	105	21668	0.53	ug/L		87
56)	2-chlorotoluene	10.69	91	22815	0.55	ug/L		91
57)	4-chlorotoluene	10.75	91	20720	0.56	ug/L		89
58)	tert-butylbenzene	10.91	119	24212	0.55	ug/L		100
59)	1,2,4-trimethylbenzene	10.94	105	20052	0.53	ug/L		84
60)	sec-butylbenzene	11.03	105	28473	0.51	ug/L	#	82
61)	4-isopropyltoluene	11.11	119	22390	0.52	ug/L		91
62)	1,3-Dichlorobenzene	11.12	146	12962	0.55	ug/L		97
63)	1,4-Dichlorobenzene	11.17	146	12272	0.55	ug/L		96
64)	n-butylbenzene	11.34	91	20283	0.53	ug/L		89
65)	1,2-Dichlorobenzene	11.38	146	9779	0.50	ug/L		92
66)	Hexachloroethane	11.54	117	2236	0.71	ug/L	#	59
67)	1,2-dibromo-3-chloropropan	11.81	75	114	0.86	ug/L	#	1
68)	1,2,4-trichlorobenzene	12.25	180	5381	0.56	ug/L		88
69)	hexachlorobutadiene	12.31	225	4709	0.53	ug/L		95
70)	naphthalene	12.40	128	4412	0.62	ug/L		100
71)	1,2,3-trichlorobenzene	12.51	180	4165	0.67	ug/L	#	92

(#) = qualifier out of range (m) = manual integration

Data File : D:\DATA\DEC2021C\DEC12\12DEC03.D Vial: 3
Acq On : 12 Dec 2021 7:10 am Operator: MGC
Sample : 2125249-CAL1 Inst : MS-V5
Misc : 1;1L12061;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:53 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC05.D Vial: 5
Acq On : 12 Dec 2021 7:59 am Operator: MGC
Sample : 2125249-CAL2 Inst : MS-V5
Misc : 1;1L12062;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:54 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	48838	10.00	ug/L		0.00
26) 1,4-Difluorobenzene IS#2	7.56	63	77467	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.77	119	98990	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	94085	11.72	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 117.20%				
33) Toluene d8 SMC#2	8.77	98	423852	9.14	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.40%				
51) Bromofluorobenzene SMC#3	10.48	95	143156	10.62	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.20%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.87	85	21941	1.44	ug/L		95
3) Chlorodifluoromethane	1.89	51	17220	2.41	ug/L	#	47
4) Chloromethane	2.07	50	10800	1.04	ug/L		94
5) Vinyl chloride	2.20	62	13707	1.12	ug/L		97
6) Bromomethane	2.59	94	12393	1.23	ug/L		96
7) Chloroethane	2.73	64	9346	0.91	ug/L		100
8) Dichlorofluoromethane	3.02	67	27232	1.33	ug/L	#	94
9) Trichlorofluoromethane	3.06	101	31532	1.32	ug/L		94
10) 1,1,2-Trichloro-1,2,2-trif	3.75	101	13309	1.00	ug/L		94
11) 1,1-Dichloroethene	3.73	61	18642	1.03	ug/L		99
12) Methylene chloride	4.39	84	11591	0.42	ug/L		92
13) MTBE	4.73	73	15090	1.03	ug/L		92
14) T-1,2-dichloroethene	4.73	96	14261	1.01	ug/L		97
15) 1,1-Dichloroethane	5.30	63	22206	0.98	ug/L		99
16) 2,2-Dichloropropane	6.12	77	20229	1.15	ug/L		87
17) Cis-1,2-dichloroethene	6.11	96	13223	0.91	ug/L		96
18) Bromochloromethane	6.43	128	4402	0.97	ug/L		93
19) Chloroform	6.57	83	25140	1.14	ug/L		97
20) 1,1,1-Trichloroethane	6.76	97	24341	1.19	ug/L	#	37
21) 1,1-Dichloropropene	6.94	75	19166	1.04	ug/L		97
22) Carbon tetrachloride	6.92	119	15054	1.21	ug/L		95
24) 1,2-Dichloroethane	7.21	62	12257	1.29	ug/L		89
25) Benzene	7.14	78	50923	0.96	ug/L	#	58
27) Trichloroethene	7.78	130	16001	1.07	ug/L		95
28) 1,2-Dichloropropane	8.00	63	9260	0.84	ug/L	#	82
29) Dibromomethane	8.07	93	4558	1.07	ug/L		92
30) Bromodichloromethane	8.23	83	11469	1.16	ug/L		98
31) 2-ceve	8.44	63	8375	3.21	ug/L		84
32) Cis-1,3-dichloropropene	8.56	75	11835	0.88	ug/L		90
34) Toluene	8.82	92	33416	1.01	ug/L		86
35) Trans-1,3-dichloropropene	8.98	75	8790	1.08	ug/L		95
36) 1,1,2-Trichloroethane	9.12	97	5195	0.84	ug/L		95
37) Tetrachloroethene (PCE)	9.18	166	15975	1.06	ug/L		95
38) 1,3-Dichloropropane	9.23	76	10036	1.00	ug/L		99
39) Dibromochloromethane	9.38	129	4622	1.07	ug/L	#	95
40) 1,2-Dibromoethane	9.47	107	4997	1.00	ug/L		96
42) Chlorobenzene	9.79	112	33157	1.07	ug/L		92
43) 1,1,1,2-Tetrachloroethane	9.84	131	8792	1.04	ug/L		98
44) Ethylbenzene	9.84	106	19155	1.06	ug/L	#	51
45) P+m-Xylene	9.92	106	43655	2.10	ug/L	#	53
46) O-Xylene	10.16	106	19904	1.03	ug/L		74
47) Styrene	10.17	104	27284	0.95	ug/L		97
48) Bromoform	10.30	173	1848	1.24	ug/L		93
49) Isopropylbenzene	10.38	105	61177	1.16	ug/L		85
50) 1,1,2,2-Tetrachloroethane	10.55	83	5006	0.97	ug/L		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC05.D Vial: 5
Acq On : 12 Dec 2021 7:59 am Operator: MGC
Sample : 2125249-CAL2 Inst : MS-V5
Misc : 1;1L12062;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:54 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

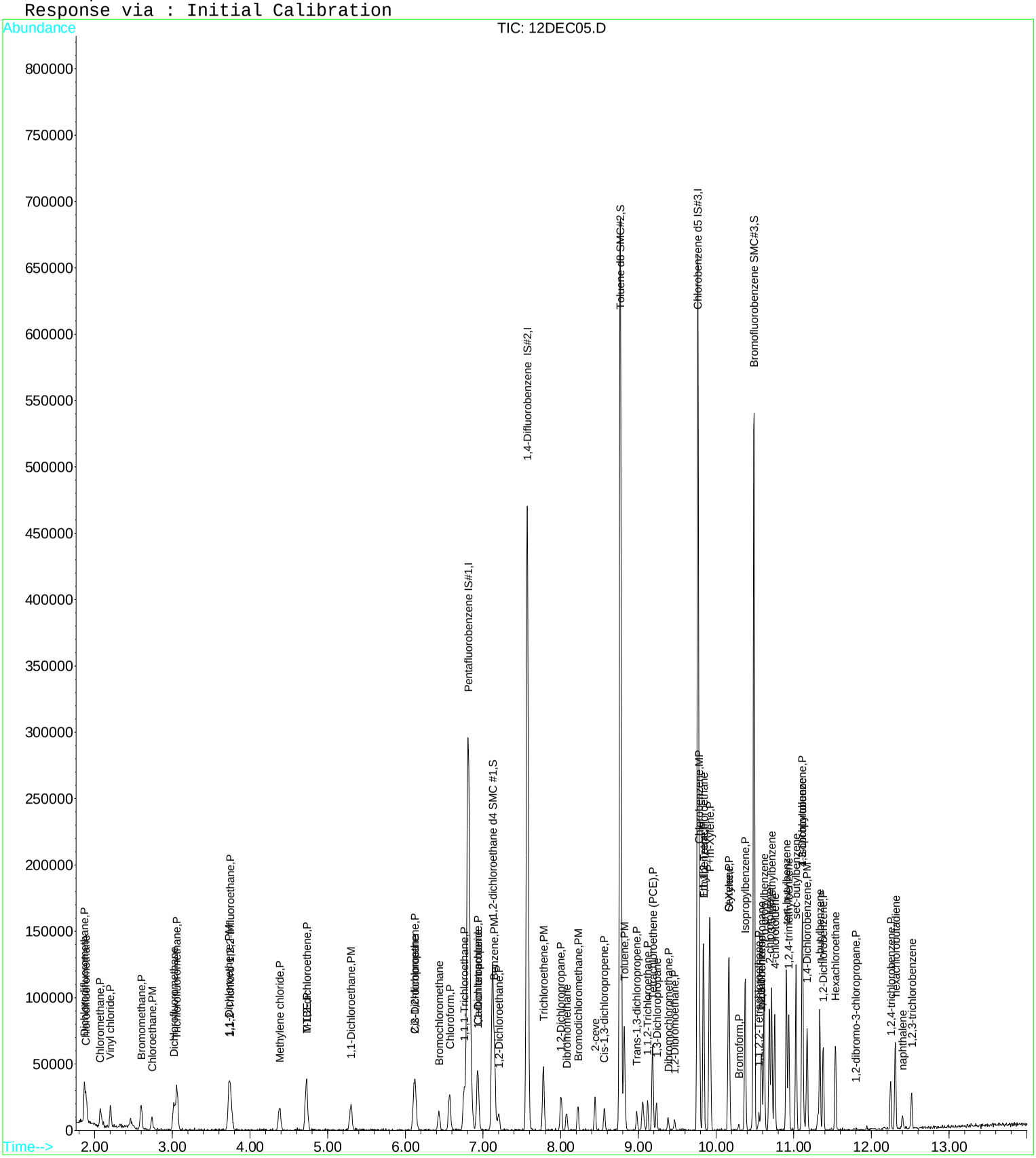
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	1,2,3-Trichloropropane	10.59	110	1409	1.00	ug/L		95
53)	n-propylbenzene	10.62	91	70822	1.15	ug/L	#	79
54)	bromobenzene	10.58	156	13648	1.17	ug/L		97
55)	1,3,5-trimethylbenzene	10.72	105	45815	1.13	ug/L		87
56)	2-chlorotoluene	10.68	91	49316	1.19	ug/L		89
57)	4-chlorotoluene	10.76	91	45054	1.23	ug/L		90
58)	tert-butylbenzene	10.91	119	51426	1.18	ug/L		99
59)	1,2,4-trimethylbenzene	10.94	105	40480	1.08	ug/L		89
60)	sec-butylbenzene	11.03	105	64261	1.16	ug/L		88
61)	4-isopropyltoluene	11.10	119	47181	1.10	ug/L		90
62)	1,3-Dichlorobenzene	11.12	146	27802	1.19	ug/L		97
63)	1,4-Dichlorobenzene	11.17	146	24493	1.10	ug/L		97
64)	n-butylbenzene	11.34	91	37321	0.98	ug/L		92
65)	1,2-Dichlorobenzene	11.38	146	21494	1.11	ug/L		96
66)	Hexachloroethane	11.54	117	4369	1.18	ug/L	#	44
67)	1,2-dibromo-3-chloropropan	11.81	75	493	1.47	ug/L	#	47
68)	1,2,4-trichlorobenzene	12.25	180	9461	0.99	ug/L		97
69)	hexachlorobutadiene	12.31	225	10284	1.17	ug/L		96
70)	naphthalene	12.40	128	7808	0.99	ug/L		100
71)	1,2,3-trichlorobenzene	12.52	180	6847	0.99	ug/L		81

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC05.D Vial: 5
Acq On : 12 Dec 2021 7:59 am Operator: MGC
Sample : 2125249-CAL2 Inst : MS-V5
Misc : 1;1L12062;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:54 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC06.D Vial: 6
Acq On : 12 Dec 2021 8:23 am Operator: MGC
Sample : 2125249-CAL3 Inst : MS-V5
Misc : 1;1L12063;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	50817	10.00	ug/L		0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	80803	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.77	119	97712	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	93976	11.25	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 112.50%				
33) Toluene d8 SMC#2	8.77	98	443118	9.16	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 91.60%				
51) Bromofluorobenzene SMC#3	10.49	95	147857	11.11	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 111.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.87	85	110530	6.95	ug/L		97
3) Chlorodifluoromethane	1.89	51	82680	11.12	ug/L	#	50
4) Chloromethane	2.07	50	50771	4.70	ug/L		98
5) Vinyl chloride	2.20	62	67311	5.29	ug/L		99
6) Bromomethane	2.60	94	60022	5.08	ug/L		99
7) Chloroethane	2.73	64	46408	4.33	ug/L		100
8) Dichlorofluoromethane	3.02	67	130509	6.12	ug/L		98
9) Trichlorofluoromethane	3.06	101	153564	6.16	ug/L		99
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	71235	5.16	ug/L		95
11) 1,1-Dichloroethene	3.73	61	96890	5.16	ug/L		93
12) Methylene chloride	4.38	84	54519	3.90	ug/L		95
13) MTBE	4.73	73	80705	5.27	ug/L		93
14) T-1,2-dichloroethene	4.73	96	70008	4.76	ug/L		98
15) 1,1-Dichloroethane	5.30	63	113311	4.81	ug/L		99
16) 2,2-Dichloropropane	6.13	77	103016	5.63	ug/L		91
17) Cis-1,2-dichloroethene	6.12	96	71132	4.72	ug/L		97
18) Bromochloromethane	6.43	128	23552	4.97	ug/L		90
19) Chloroform	6.57	83	125776	5.46	ug/L		98
20) 1,1,1-Trichloroethane	6.76	97	124336	5.84	ug/L		85
21) 1,1-Dichloropropene	6.94	75	93999	4.88	ug/L		97
22) Carbon tetrachloride	6.93	119	79473	5.57	ug/L		98
24) 1,2-Dichloroethane	7.20	62	57479	5.80	ug/L		95
25) Benzene	7.15	78	244714	4.43	ug/L	#	88
27) Trichloroethene	7.78	130	72132	4.64	ug/L		97
28) 1,2-Dichloropropane	8.01	63	46906	4.08	ug/L	#	86
29) Dibromomethane	8.08	93	21990	4.97	ug/L		95
30) Bromodichloromethane	8.22	83	58365	4.99	ug/L		98
31) 2-ceve	8.44	63	46381	17.05	ug/L		98
32) Cis-1,3-dichloropropene	8.56	75	63441	4.55	ug/L		97
34) Toluene	8.82	92	160886	4.67	ug/L		84
35) Trans-1,3-dichloropropene	8.98	75	43786	4.55	ug/L		92
36) 1,1,2-Trichloroethane	9.12	97	29042	4.49	ug/L		95
37) Tetrachloroethene (PCE)	9.18	166	82399	5.25	ug/L		97
38) 1,3-Dichloropropane	9.23	76	47309	4.54	ug/L		99
39) Dibromochloromethane	9.38	129	27883	5.17	ug/L		96
40) 1,2-Dibromoethane	9.47	107	24171	4.65	ug/L		97
42) Chlorobenzene	9.78	112	157417	5.16	ug/L		96
43) 1,1,1,2-Tetrachloroethane	9.84	131	46475	5.58	ug/L		100
44) Ethylbenzene	9.84	106	92462	5.20	ug/L	#	48
45) P+m-Xylene	9.92	106	224920	10.97	ug/L	#	55
46) O-Xylene	10.16	106	101891	5.34	ug/L		72
47) Styrene	10.17	104	158599	5.60	ug/L		97
48) Bromoform	10.30	173	11561	5.96	ug/L		97
49) Isopropylbenzene	10.38	105	317374	6.09	ug/L		83
50) 1,1,2,2-Tetrachloroethane	10.55	83	22435	4.42	ug/L		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC06.D Vial: 6
Acq On : 12 Dec 2021 8:23 am Operator: MGC
Sample : 2125249-CAL3 Inst : MS-V5
Misc : 1;1L12063;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

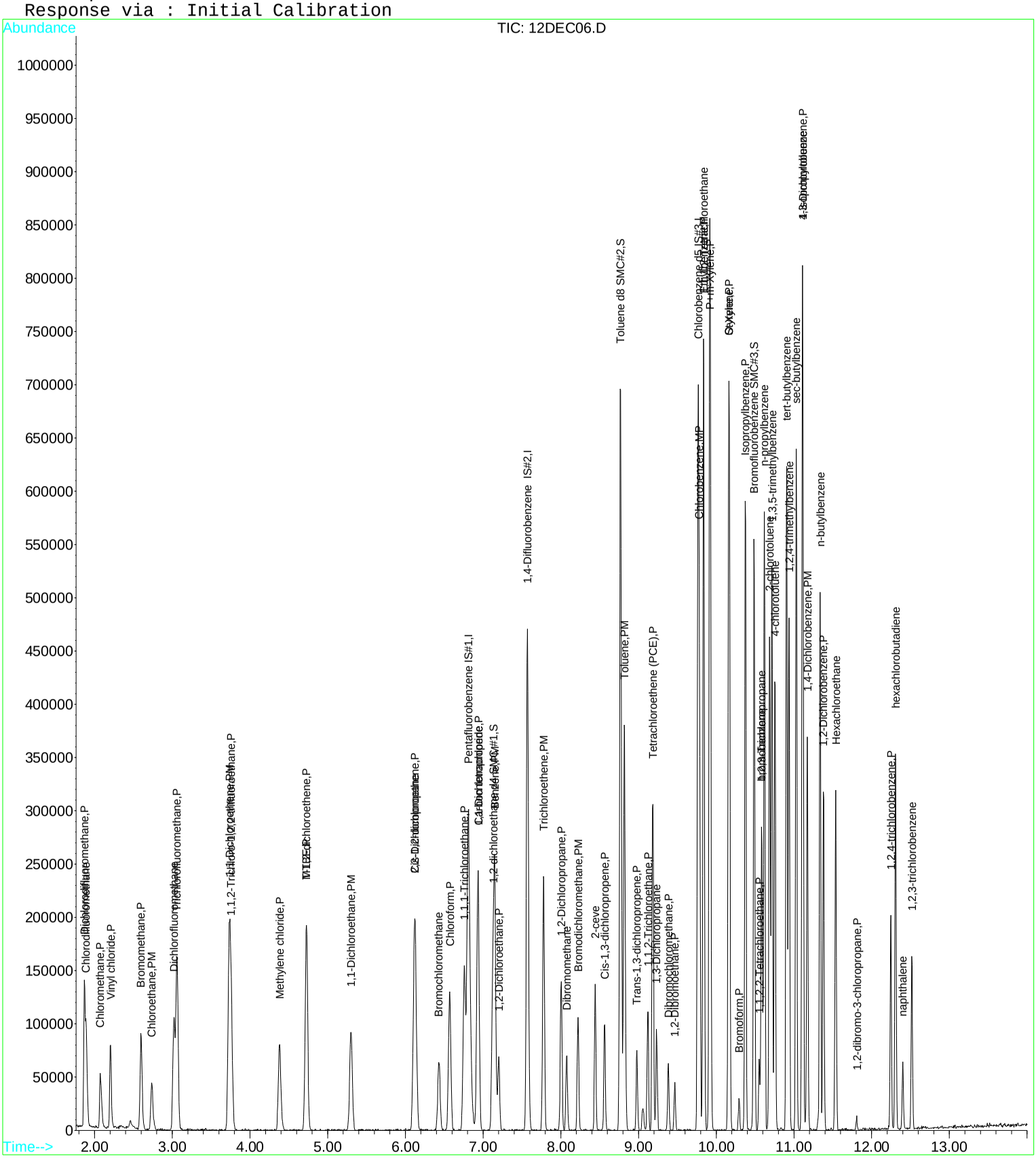
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	1,2,3-Trichloropropane	10.59	110	7206	5.17	ug/L		87
53)	n-propylbenzene	10.62	91	360701	5.95	ug/L	#	82
54)	bromobenzene	10.58	156	65010	5.67	ug/L		100
55)	1,3,5-trimethylbenzene	10.72	105	239150	5.97	ug/L		85
56)	2-chlorotoluene	10.69	91	243225	5.96	ug/L		91
57)	4-chlorotoluene	10.75	91	213965	5.90	ug/L		91
58)	tert-butylbenzene	10.91	119	263657	6.15	ug/L		100
59)	1,2,4-trimethylbenzene	10.94	105	215461	5.84	ug/L		86
60)	sec-butylbenzene	11.03	105	333180	6.07	ug/L		86
61)	4-isopropyltoluene	11.11	119	255695	6.05	ug/L		90
62)	1,3-Dichlorobenzene	11.12	146	136641	5.94	ug/L		97
63)	1,4-Dichlorobenzene	11.17	146	122360	5.58	ug/L		98
64)	n-butylbenzene	11.34	91	207558	5.50	ug/L		90
65)	1,2-Dichlorobenzene	11.38	146	109327	5.74	ug/L		97
66)	Hexachloroethane	11.54	117	23765	5.32	ug/L	#	59
67)	1,2-dibromo-3-chloropropan	11.80	75	2981	5.49	ug/L		84
68)	1,2,4-trichlorobenzene	12.25	180	51376	5.44	ug/L		99
69)	hexachlorobutadiene	12.30	225	57241	6.60	ug/L		98
70)	naphthalene	12.40	128	41129	4.51	ug/L		100
71)	1,2,3-trichlorobenzene	12.52	180	42789	5.34	ug/L		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC06.D Vial: 6
Acq On : 12 Dec 2021 8:23 am Operator: MGC
Sample : 2125249-CAL3 Inst : MS-V5
Misc : 1;1L12063;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC07.D Vial: 7
Acq On : 12 Dec 2021 8:47 am Operator: MGC
Sample : 2125249-CAL4 Inst : MS-V5
Misc : 1;1L12064;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	51410	10.00	ug/L		0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	79447	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.77	119	100719	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	95755	11.33	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 113.30%				
33) Toluene d8 SMC#2	8.77	98	447157	9.40	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.00%				
51) Bromofluorobenzene SMC#3	10.49	95	149874	10.93	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.30%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.87	85	222116	13.81	ug/L		97
3) Chlorodifluoromethane	1.89	51	160896	21.38	ug/L	#	53
4) Chloromethane	2.08	50	98792	9.05	ug/L		100
5) Vinyl chloride	2.20	62	134793	10.48	ug/L		98
6) Bromomethane	2.60	94	120955	9.95	ug/L		98
7) Chloroethane	2.74	64	87435	8.07	ug/L		96
8) Dichlorofluoromethane	3.02	67	257125	11.91	ug/L		99
9) Trichlorofluoromethane	3.06	101	296519	11.75	ug/L		100
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	135866	9.72	ug/L		97
11) 1,1-Dichloroethene	3.73	61	187142	9.85	ug/L		95
12) Methylene chloride	4.38	84	107532	8.14	ug/L		96
13) MTBE	4.72	73	163031	10.53	ug/L		93
14) T-1,2-dichloroethene	4.73	96	137853	9.26	ug/L		97
15) 1,1-Dichloroethane	5.30	63	214092	8.98	ug/L		97
16) 2,2-Dichloropropane	6.13	77	203258	10.97	ug/L		89
17) Cis-1,2-dichloroethene	6.12	96	135489	8.90	ug/L		96
18) Bromochloromethane	6.43	128	44234	9.22	ug/L		88
19) Chloroform	6.57	83	240824	10.33	ug/L		100
20) 1,1,1-Trichloroethane	6.76	97	248321	11.52	ug/L		93
21) 1,1-Dichloropropene	6.94	75	186767	9.59	ug/L		95
22) Carbon tetrachloride	6.93	119	167600	11.20	ug/L		99
24) 1,2-Dichloroethane	7.20	62	112564	11.23	ug/L		97
25) Benzene	7.15	78	476747	8.53	ug/L	#	93
27) Trichloroethene	7.78	130	143744	9.41	ug/L		98
28) 1,2-Dichloropropane	8.00	63	89426	7.91	ug/L	#	85
29) Dibromomethane	8.07	93	42651	9.80	ug/L		93
30) Bromodichloromethane	8.22	83	124788	10.52	ug/L		99
31) 2-ceve	8.44	63	99669	37.27	ug/L		97
32) Cis-1,3-dichloropropene	8.56	75	131040	9.55	ug/L		98
34) Toluene	8.82	92	322981	9.54	ug/L		88
35) Trans-1,3-dichloropropene	8.98	75	94847	9.70	ug/L		93
36) 1,1,2-Trichloroethane	9.12	97	58476	9.19	ug/L		94
37) Tetrachloroethene (PCE)	9.18	166	159258	10.31	ug/L		96
38) 1,3-Dichloropropane	9.23	76	94825	9.26	ug/L		98
39) Dibromochloromethane	9.38	129	59222	10.58	ug/L		98
40) 1,2-Dibromoethane	9.47	107	49691	9.73	ug/L		99
42) Chlorobenzene	9.79	112	308640	9.81	ug/L		96
43) 1,1,1,2-Tetrachloroethane	9.84	131	96489	11.23	ug/L		97
44) Ethylbenzene	9.84	106	187108	10.21	ug/L	#	51
45) P+m-Xylene	9.92	106	439922	20.82	ug/L	#	59
46) O-Xylene	10.16	106	207450	10.55	ug/L		77
47) Styrene	10.17	104	315671	10.82	ug/L		96
48) Bromoform	10.29	173	25939	11.85	ug/L		97
49) Isopropylbenzene	10.38	105	630719	11.75	ug/L		84
50) 1,1,2,2-Tetrachloroethane	10.55	83	48374	9.24	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC07.D Vial: 7
Acq On : 12 Dec 2021 8:47 am Operator: MGC
Sample : 2125249-CAL4 Inst : MS-V5
Misc : 1;1L12064;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

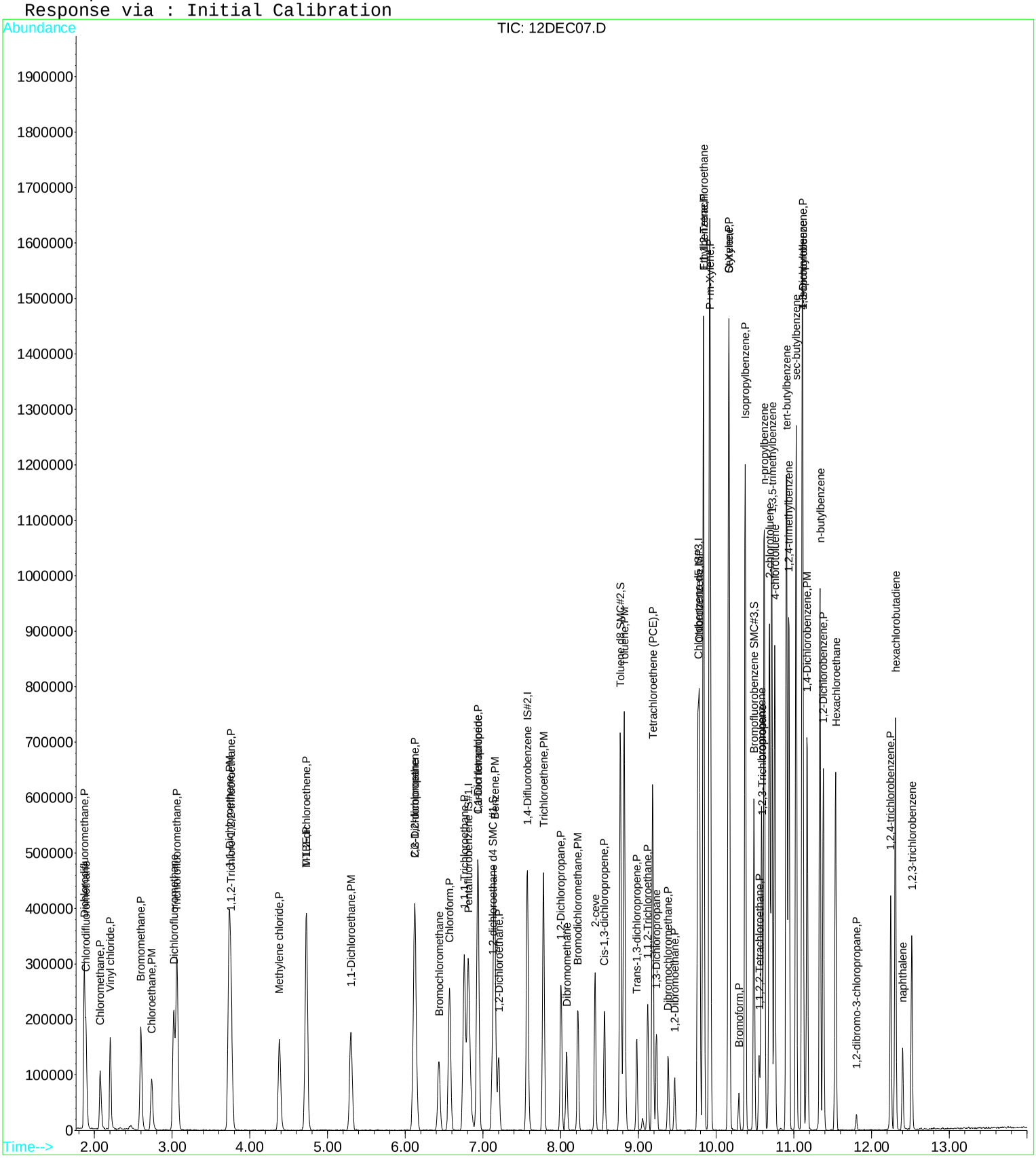
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	1,2,3-Trichloropropane	10.60	110	15613	10.86	ug/L		89
53)	n-propylbenzene	10.62	91	703272	11.25	ug/L		83
54)	bromobenzene	10.59	156	129905	10.99	ug/L		99
55)	1,3,5-trimethylbenzene	10.72	105	474133	11.47	ug/L		85
56)	2-chlorotoluene	10.69	91	484033	11.52	ug/L		92
57)	4-chlorotoluene	10.75	91	418428	11.19	ug/L		91
58)	tert-butylbenzene	10.91	119	518386	11.73	ug/L		100
59)	1,2,4-trimethylbenzene	10.93	105	424736	11.16	ug/L		85
60)	sec-butylbenzene	11.03	105	644050	11.38	ug/L		86
61)	4-isopropyltoluene	11.11	119	509508	11.70	ug/L		89
62)	1,3-Dichlorobenzene	11.12	146	254535	10.73	ug/L		99
63)	1,4-Dichlorobenzene	11.17	146	247331	10.95	ug/L		98
64)	n-butylbenzene	11.34	91	417196	10.72	ug/L		90
65)	1,2-Dichlorobenzene	11.38	146	217825	11.09	ug/L		99
66)	Hexachloroethane	11.54	117	53906	10.74	ug/L	#	70
67)	1,2-dibromo-3-chloropropan	11.80	75	6518	10.88	ug/L		94
68)	1,2,4-trichlorobenzene	12.25	180	109067	11.20	ug/L		97
69)	hexachlorobutadiene	12.31	225	121604	13.60	ug/L		96
70)	naphthalene	12.40	128	94396	9.50	ug/L		100
71)	1,2,3-trichlorobenzene	12.52	180	91852	10.78	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC07.D Vial: 7
Acq On : 12 Dec 2021 8:47 am Operator: MGC
Sample : 2125249-CAL4 Inst : MS-V5
Misc : 1;1L12064;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:55 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC08.D Vial: 8
Acq On : 12 Dec 2021 9:11 am Operator: MGC
Sample : 2125249-CAL5 Inst : MS-V5
Misc : 1;1L12065;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:56 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	52592	10.00	ug/L		0.01
26) 1,4-Difluorobenzene IS#2	7.57	63	80932	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.77	119	103823	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	99224	11.48	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 114.80%				
33) Toluene d8 SMC#2	8.77	98	449335	9.27	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.70%				
51) Bromofluorobenzene SMC#3	10.49	95	159254	11.27	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.70%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.87	85	552579	33.59	ug/L		99
3) Chlorodifluoromethane	1.89	51	405583	52.68	ug/L	#	52
4) Chloromethane	2.07	50	251476	22.51	ug/L		99
5) Vinyl chloride	2.20	62	337172	25.63	ug/L		100
6) Bromomethane	2.60	94	314236	24.99	ug/L		99
7) Chloroethane	2.73	64	229236	20.67	ug/L		99
8) Dichlorofluoromethane	3.02	67	648992	29.40	ug/L		99
9) Trichlorofluoromethane	3.06	101	762828	29.55	ug/L		100
10) 1,1,2-Trichloro-1,2,2-trif	3.75	101	352745	24.67	ug/L		96
11) 1,1-Dichloroethene	3.73	61	486283	25.01	ug/L		94
12) Methylene chloride	4.38	84	277139	21.38	ug/L		95
13) MTBE	4.72	73	434594	27.43	ug/L		94
14) T-1,2-dichloroethene	4.73	96	350070	23.00	ug/L		98
15) 1,1-Dichloroethane	5.30	63	555969	22.80	ug/L		98
16) 2,2-Dichloropropane	6.13	77	549552	29.00	ug/L		86
17) Cis-1,2-dichloroethene	6.12	96	352022	22.59	ug/L		97
18) Bromochloromethane	6.43	128	116572	23.75	ug/L		92
19) Chloroform	6.57	83	621392	26.05	ug/L		99
20) 1,1,1-Trichloroethane	6.76	97	657115	29.81	ug/L		92
21) 1,1-Dichloropropene	6.94	75	478646	24.02	ug/L		97
22) Carbon tetrachloride	6.93	119	475422	28.67	ug/L		99
24) 1,2-Dichloroethane	7.20	62	287618	28.04	ug/L		97
25) Benzene	7.15	78	1222022	21.39	ug/L		96
27) Trichloroethene	7.78	130	366855	23.58	ug/L		97
28) 1,2-Dichloropropane	8.01	63	235676	20.46	ug/L	#	85
29) Dibromomethane	8.07	93	111271	25.09	ug/L		95
30) Bromodichloromethane	8.22	83	344990	27.24	ug/L		100
31) 2-ceve	8.44	63	270284	99.22	ug/L		95
32) Cis-1,3-dichloropropene	8.56	75	367220	26.27	ug/L		98
34) Toluene	8.82	92	808213	23.45	ug/L		90
35) Trans-1,3-dichloropropene	8.98	75	269541	25.58	ug/L		94
36) 1,1,2-Trichloroethane	9.12	97	147149	22.71	ug/L		95
37) Tetrachloroethene (PCE)	9.18	166	414589	26.35	ug/L		96
38) 1,3-Dichloropropane	9.24	76	247938	23.76	ug/L		100
39) Dibromochloromethane	9.38	129	170036	26.72	ug/L		99
40) 1,2-Dibromoethane	9.47	107	135734	26.10	ug/L		97
42) Chlorobenzene	9.79	112	780872	24.07	ug/L		96
43) 1,1,1,2-Tetrachloroethane	9.84	131	271681	30.68	ug/L		98
44) Ethylbenzene	9.84	106	484322	25.63	ug/L		65
45) P+m-Xylene	9.92	106	1112837	51.09	ug/L		71
46) O-Xylene	10.16	106	536321	26.47	ug/L		80
47) Styrene	10.17	104	819272	27.23	ug/L		96
48) Bromoform	10.30	173	80452	29.53	ug/L		98
49) Isopropylbenzene	10.37	105	1507225	27.23	ug/L		89
50) 1,1,2,2-Tetrachloroethane	10.55	83	129550	24.02	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC08.D Vial: 8
Acq On : 12 Dec 2021 9:11 am Operator: MGC
Sample : 2125249-CAL5 Inst : MS-V5
Misc : 1;1L12065;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:56 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

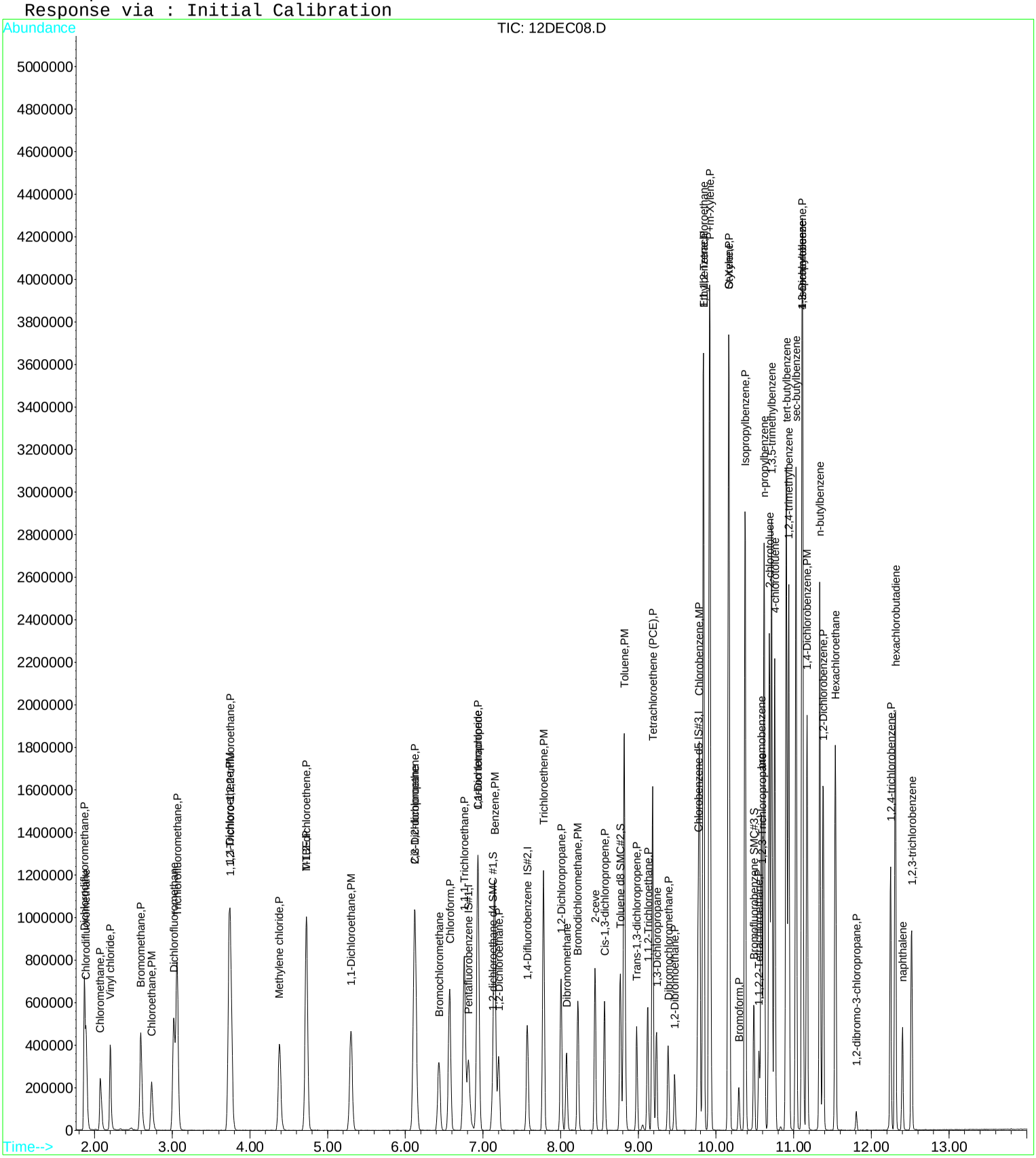
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	1,2,3-Trichloropropane	10.60	110	43253	29.20	ug/L	98
53)	n-propylbenzene	10.62	91	1663661	25.81	ug/L	88
54)	bromobenzene	10.58	156	345697	28.37	ug/L	98
55)	1,3,5-trimethylbenzene	10.72	105	1217223	28.57	ug/L	89
56)	2-chlorotoluene	10.69	91	1229068	28.37	ug/L	94
57)	4-chlorotoluene	10.76	91	1061979	27.56	ug/L	92
58)	tert-butylbenzene	10.91	119	1312191	28.80	ug/L	99
59)	1,2,4-trimethylbenzene	10.94	105	1135019	28.93	ug/L	89
60)	sec-butylbenzene	11.03	105	1552184	26.60	ug/L	90
61)	4-isopropyltoluene	11.11	119	1284140	28.61	ug/L	93
62)	1,3-Dichlorobenzene	11.12	146	663472	27.12	ug/L	99
63)	1,4-Dichlorobenzene	11.17	146	638632	27.43	ug/L	99
64)	n-butylbenzene	11.34	91	1094406	27.29	ug/L	92
65)	1,2-Dichlorobenzene	11.38	146	569449	28.13	ug/L	98
66)	Hexachloroethane	11.54	117	176440	27.93	ug/L	85
67)	1,2-dibromo-3-chloropropan	11.81	75	19374	30.08	ug/L	88
68)	1,2,4-trichlorobenzene	12.25	180	312922	31.18	ug/L	100
69)	hexachlorobutadiene	12.31	225	328974	35.70	ug/L	98
70)	naphthalene	12.40	128	295279	25.62	ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	258565	27.85	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC08.D Vial: 8
Acq On : 12 Dec 2021 9:11 am Operator: MGC
Sample : 2125249-CAL5 Inst : MS-V5
Misc : 1;1L12065;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:56 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC09.D Vial: 9
Acq On : 12 Dec 2021 9:36 am Operator: MGC
Sample : 2125249-CAL6 Inst : MS-V5
Misc : 1;1L12066;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:57 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	49826	10.00	ug/L		0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	75829	10.00	ug/L		0.00
41) Chlorobenzene d5 IS#3	9.77	119	97423	10.00	ug/L		0.00
System Monitoring Compounds							
23) 1,2-dichloroethane d4 SMC	7.12	65	93626	11.43	ug/L		0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 114.30%				
33) Toluene d8 SMC#2	8.77	98	431588	9.51	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 95.10%				
51) Bromofluorobenzene SMC#3	10.48	95	152691	11.51	ug/L		0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 115.10%				
Target Compounds							Qvalue
2) Dichlorodifluoromethane	1.87	85	995672	63.88	ug/L		99
3) Chlorodifluoromethane	1.89	51	752348	103.15	ug/L	#	49
4) Chloromethane	2.07	50	490728	46.36	ug/L		98
5) Vinyl chloride	2.20	62	640953	51.42	ug/L		99
6) Bromomethane	2.59	94	605802	50.67	ug/L		99
7) Chloroethane	2.73	64	439954	41.88	ug/L		99
8) Dichlorofluoromethane	3.01	67	1220842	58.37	ug/L		99
9) Trichlorofluoromethane	3.06	101	1404536	57.42	ug/L		99
10) 1,1,2-Trichloro-1,2,2-trif	3.75	101	668405	49.35	ug/L		96
11) 1,1-Dichloroethene	3.73	61	927551	50.36	ug/L		95
12) Methylene chloride	4.38	84	537787	44.40	ug/L		96
13) MTBE	4.72	73	864899	57.63	ug/L		93
14) T-1,2-dichloroethene	4.73	96	669622	46.43	ug/L		98
15) 1,1-Dichloroethane	5.30	63	1058270	45.82	ug/L		100
16) 2,2-Dichloropropane	6.12	77	1074708	59.87	ug/L		85
17) Cis-1,2-dichloroethene	6.12	96	689065	46.68	ug/L		97
18) Bromochloromethane	6.43	128	231310	49.74	ug/L		92
19) Chloroform	6.57	83	1177332	52.10	ug/L		99
20) 1,1,1-Trichloroethane	6.76	97	1294810	62.00	ug/L		98
21) 1,1-Dichloropropene	6.94	75	909796	48.19	ug/L		98
22) Carbon tetrachloride	6.93	119	972350	55.68	ug/L		99
24) 1,2-Dichloroethane	7.20	62	555522	57.17	ug/L		98
25) Benzene	7.15	78	2232246	41.23	ug/L		98
27) Trichloroethene	7.78	130	706157	48.45	ug/L		98
28) 1,2-Dichloropropane	8.01	63	451517	41.83	ug/L	#	86
29) Dibromomethane	8.08	93	219025	52.71	ug/L		95
30) Bromodichloromethane	8.22	83	697871	55.19	ug/L		99
31) 2-ceve	8.44	63	518837	203.29	ug/L		96
32) Cis-1,3-dichloropropene	8.56	75	729662	55.71	ug/L		99
34) Toluene	8.82	92	1489266	46.11	ug/L		95
35) Trans-1,3-dichloropropene	8.98	75	551867	51.83	ug/L		97
36) 1,1,2-Trichloroethane	9.12	97	297548	49.01	ug/L		95
37) Tetrachloroethene (PCE)	9.18	166	773735	52.48	ug/L		97
38) 1,3-Dichloropropane	9.23	76	482544	49.36	ug/L		100
39) Dibromochloromethane	9.38	129	372679	53.80	ug/L		98
40) 1,2-Dibromoethane	9.47	107	269274	55.25	ug/L		98
42) Chlorobenzene	9.78	112	1427279	46.89	ug/L		96
43) 1,1,1,2-Tetrachloroethane	9.84	131	545594	65.65	ug/L		99
44) Ethylbenzene	9.84	106	896551	50.57	ug/L		89
45) P+m-Xylene	9.92	106	1980709	96.90	ug/L		92
46) O-Xylene	10.16	106	1011066	53.18	ug/L		89
47) Styrene	10.17	104	1504218	53.29	ug/L		95
48) Bromoform	10.30	173	183005	57.11	ug/L		100
49) Isopropylbenzene	10.37	105	2433537	46.86	ug/L		97
50) 1,1,2,2-Tetrachloroethane	10.55	83	262472	51.85	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC09.D Vial: 9
Acq On : 12 Dec 2021 9:36 am Operator: MGC
Sample : 2125249-CAL6 Inst : MS-V5
Misc : 1;1L12066;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:57 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

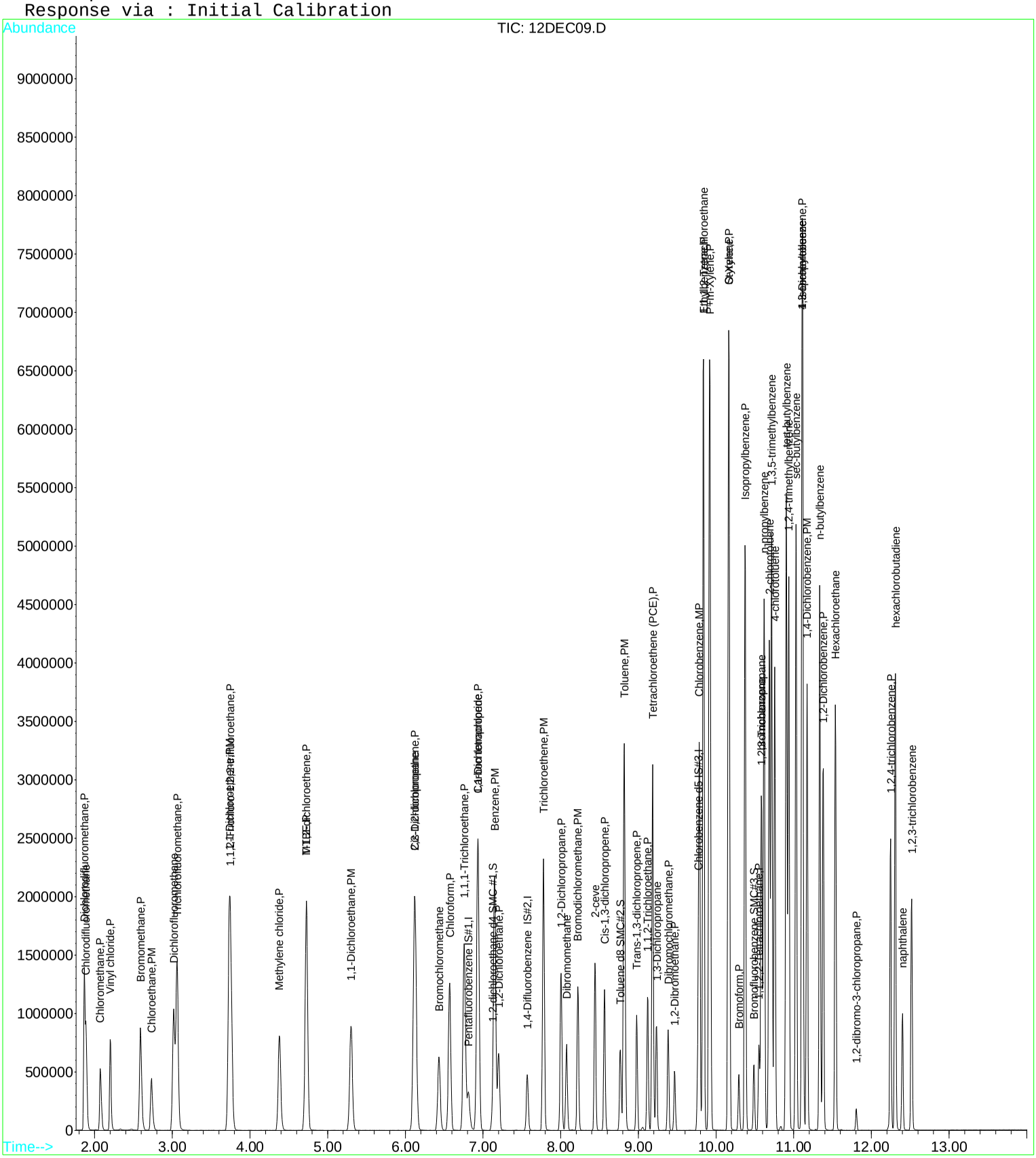
Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52) 1,2,3-Trichloropropane	10.59	110	83423	60.01 ug/L	97
53) n-propylbenzene	10.62	91	2602017	43.03 ug/L	98
54) bromobenzene	10.58	156	669876	58.58 ug/L	96
55) 1,3,5-trimethylbenzene	10.72	105	2083393	52.12 ug/L	95
56) 2-chlorotoluene	10.68	91	2185021	53.74 ug/L	97
57) 4-chlorotoluene	10.76	91	1889322	52.26 ug/L	97
58) tert-butylbenzene	10.91	119	2286155	53.47 ug/L	95
59) 1,2,4-trimethylbenzene	10.94	105	1994504	54.18 ug/L	96
60) sec-butylbenzene	11.03	105	2472626	45.16 ug/L	99
61) 4-isopropyltoluene	11.10	119	2135919	50.71 ug/L	96
62) 1,3-Dichlorobenzene	11.12	146	1236035	53.85 ug/L	98
63) 1,4-Dichlorobenzene	11.17	146	1215931	55.66 ug/L	98
64) n-butylbenzene	11.34	91	1908937	50.73 ug/L	99
65) 1,2-Dichlorobenzene	11.38	146	1070291	56.35 ug/L	98
66) Hexachloroethane	11.54	117	411993	54.68 ug/L	95
67) 1,2-dibromo-3-chloropropan	11.81	75	40311	65.86 ug/L	98
68) 1,2,4-trichlorobenzene	12.25	180	641063	68.07 ug/L	99
69) hexachlorobutadiene	12.31	225	635483	73.50 ug/L	99
70) naphthalene	12.40	128	637190	50.67 ug/L	100
71) 1,2,3-trichlorobenzene	12.52	180	534778	56.87 ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC09.D Vial: 9
Acq On : 12 Dec 2021 9:36 am Operator: MGC
Sample : 2125249-CAL6 Inst : MS-V5
Misc : 1;1L12066;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:57 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC15.D Vial: 15
Acq On : 12 Dec 2021 12:26 pm Operator: MGC
Sample : 2125249-CAL7 Inst : MS-V5
Misc : 1;1L12068;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:15 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

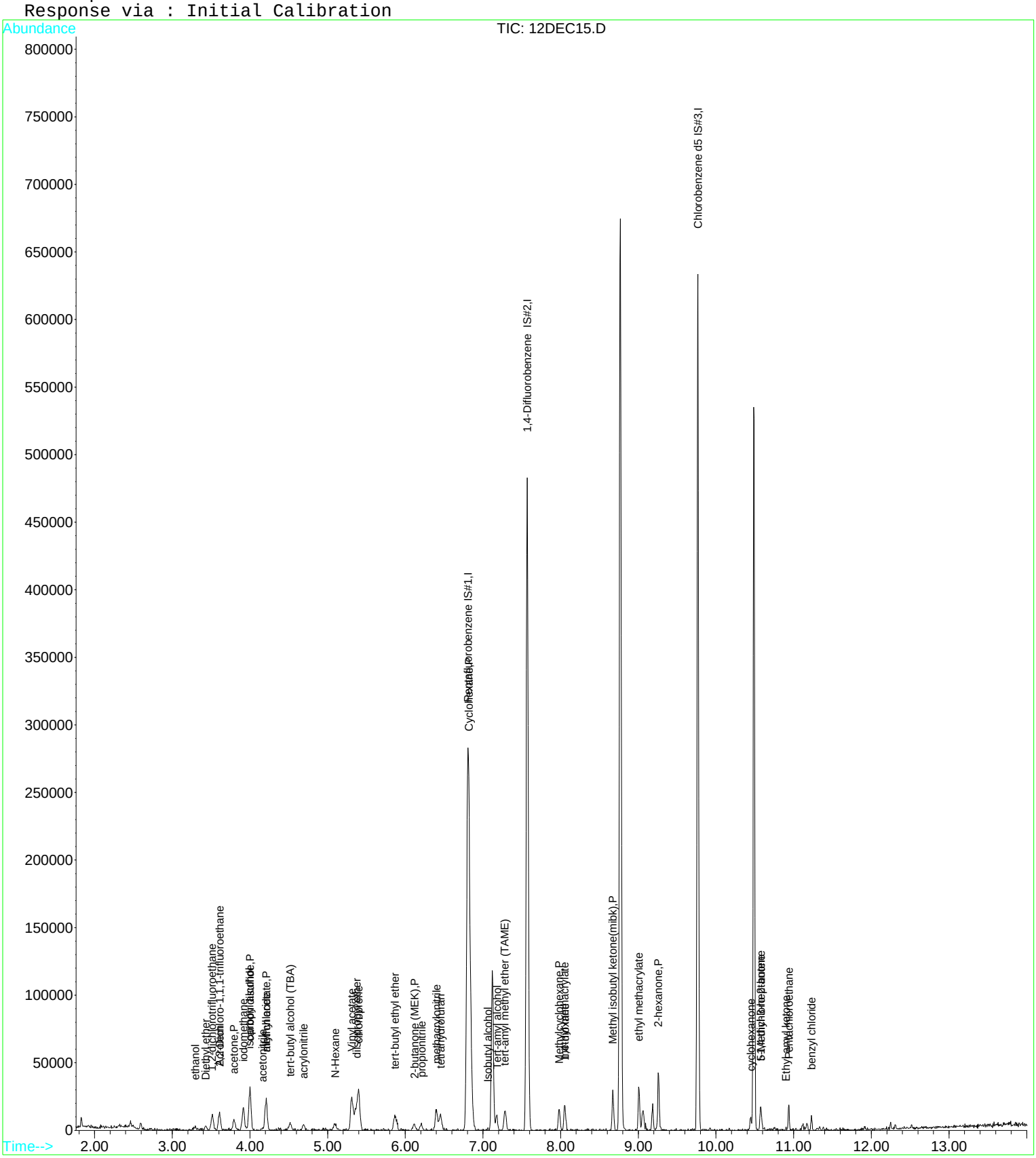
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	48847	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	76350	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	99519	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.30	45	3500	137.19	ug/L	#	61
3) 2,2-Dichloro-1,1,1-trifluo	3.60	83	9505	0.47	ug/L		92
4) 1,2-dichlorotrifluoroethan	3.51	67	6949	0.42	ug/L		85
5) Diethyl ether	3.44	59	1679	0.31	ug/L		79
6) isopropyl alcohol	3.99	45	3661	29.99	ug/L	#	51
7) Acrolein	3.61	56	811	1.89	ug/L	#	42
8) acetone	3.79	43	12370	15.51	ug/L		88
9) tert-butyl alcohol (TBA)	4.51	59	7824	36.90	ug/L		100
10) acetonitrile	4.16	41	1818	5.99	ug/L	#	73
11) methyl acetate	4.20	43	8300	3.60	ug/L		99
12) allyl chloride	4.21	41	19258	1.03	ug/L		95
13) iodomethane	3.92	142	21812	3.30	ug/L		98
14) acrylonitrile	4.69	53	2939	2.58	ug/L	#	74
15) carbon disulfide	4.00	76	48734	1.15	ug/L		96
16) N-Hexane	5.10	57	3218	0.29	ug/L	#	48
17) diisopropyl ether	5.37	87	5638	0.57	ug/L		90
18) Vinyl acetate	5.31	43	49895	5.10	ug/L		98
19) chloroprene	5.40	53	23168	1.26	ug/L		91
20) tert-butyl ethyl ether	5.86	59	14488	0.68	ug/L		97
21) 2-butanone (MEK)	6.11	43	7723	5.91	ug/L		88
22) propionitrile	6.20	54	6084	15.11	ug/L	#	80
23) Isobutyl alcohol	7.06	43	743	8.53	ug/L	#	74
24) methacrylonitrile	6.40	67	9913	6.05	ug/L		76
25) Tert-amyl alcohol	7.18	59	6393	37.76	ug/L		90
26) tetrahydrofuran	6.45	42	8617	10.27	ug/L		91
27) Cyclohexane	6.82	56	10620	0.49	ug/L	#	73
28) tert-amyl methyl ether (TA	7.28	73	12157	0.66	ug/L		92
30) methyl methacrylate	8.05	69	8629	3.10	ug/L		89
31) Methylcyclohexane	7.99	55	3942	0.29	ug/L	#	72
32) 1,4-dioxane	8.06	88	2819	103.98	ug/L		78
33) Methyl isobutyl ketone(mib	8.67	43	15903	5.83	ug/L		92
34) ethyl methacrylate	9.00	69	19188	3.27	ug/L		94
35) 2-hexanone	9.26	43	23187	12.88	ug/L		90
37) 5-Methyl-3-heptanone	10.58	43	1815	0.77	ug/L		90
38) cyclohexanone	10.44	55	3923	18.30	ug/L		95
39) t-1,4-dichloro-2-butene	10.57	75	2622	3.81	ug/L	#	71
40) Ethyl amyl ketone	10.90	57	385	0.19	ug/L	#	45
41) Pentachloroethane	10.94	167	2339	0.58	ug/L	#	80
42) benzyl chloride	11.23	91	6755	1.78	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC15.D Vial: 15
Acq On : 12 Dec 2021 12:26 pm Operator: MGC
Sample : 2125249-CAL7 Inst : MS-V5
Misc : 1;1L12068;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:15 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC17.D Vial: 17
Acq On : 12 Dec 2021 1:14 pm Operator: MGC
Sample : 2125249-CAL8 Inst : MS-V5
Misc : 1;1L12070;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:16 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

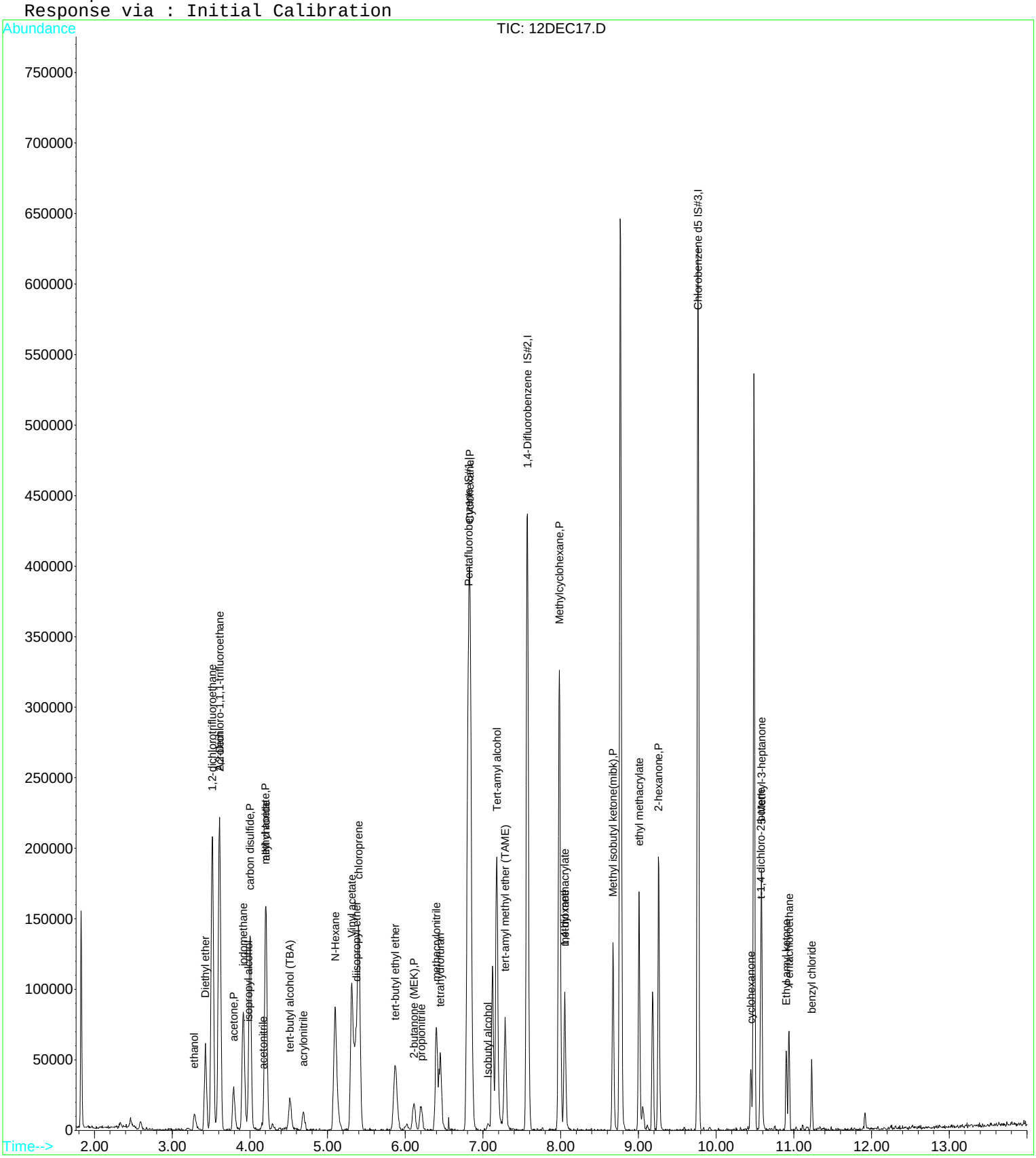
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	50230	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	75898	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.76	119	99196	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	15007	572.02	ug/L		88
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	149296	7.23	ug/L		96
4) 1,2-dichlorotrifluoroethan	3.51	67	122770	7.22	ug/L		92
5) Diethyl ether	3.43	59	35886	6.35	ug/L		95
6) isopropyl alcohol	3.98	45	14714	117.21	ug/L	#	58
7) Acrolein	3.61	56	6743	15.24	ug/L		74
8) acetone	3.79	43	48755	59.46	ug/L		85
9) tert-butyl alcohol (TBA)	4.51	59	33254	152.53	ug/L		100
10) acetonitrile	4.16	41	5615m	17.99	ug/L		
11) methyl acetate	4.20	43	127940	53.96	ug/L		96
12) allyl chloride	4.21	41	90996	4.71	ug/L		97
13) iodomethane	3.91	142	114845	10.97	ug/L		96
14) acrylonitrile	4.69	53	12506	10.68	ug/L		98
15) carbon disulfide	4.00	76	228541	5.26	ug/L		96
16) N-Hexane	5.10	57	65998	5.78	ug/L		92
17) diisopropyl ether	5.36	87	29718	2.95	ug/L		82
18) Vinyl acetate	5.31	43	215856	21.45	ug/L		97
19) chloroprene	5.40	53	114195	6.06	ug/L		89
20) tert-butyl ethyl ether	5.87	59	64963	2.95	ug/L		100
21) 2-butanone (MEK)	6.11	43	32334	24.04	ug/L		95
22) propionitrile	6.20	54	24407	58.96	ug/L		97
23) Isobutyl alcohol	7.06	43	3370	37.61	ug/L		85
24) methacrylonitrile	6.40	67	43017	25.52	ug/L		77
25) Tert-amyl alcohol	7.18	59	104888	602.50	ug/L		90
26) tetrahydrofuran	6.45	42	40187	46.59	ug/L		90
27) Cyclohexane	6.83	56	124085	5.61	ug/L		91
28) tert-amyl methyl ether (TA	7.29	73	57189	3.03	ug/L		92
30) methyl methacrylate	8.05	69	37164	13.45	ug/L		96
31) Methylcyclohexane	7.98	55	96841	7.18	ug/L		96
32) 1,4-dioxane	8.06	88	11694	433.92	ug/L		89
33) Methyl isobutyl ketone(mib	8.67	43	72361	26.67	ug/L		96
34) ethyl methacrylate	9.01	69	88916	15.26	ug/L		98
35) 2-hexanone	9.26	43	101634	56.80	ug/L		93
37) 5-Methyl-3-heptanone	10.58	43	29810	12.76	ug/L		92
38) cyclohexanone	10.45	55	14763	69.07	ug/L		98
39) t-1,4-dichloro-2-butene	10.57	75	13669	14.15	ug/L	#	79
40) Ethyl amyl ketone	10.90	57	12202	5.98	ug/L		97
41) Pentachloroethane	10.94	167	8068	2.01	ug/L		93
42) benzyl chloride	11.23	91	30504	5.93	ug/L		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC17.D Vial: 17
Acq On : 12 Dec 2021 1:14 pm Operator: MGC
Sample : 2125249-CAL8 Inst : MS-V5
Misc : 1;1L12070;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:16 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC18.D Vial: 18
Acq On : 12 Dec 2021 1:38 pm Operator: MGC
Sample : 2125249-CAL9 Inst : MS-V5
Misc : 1;1L12071;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:22 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

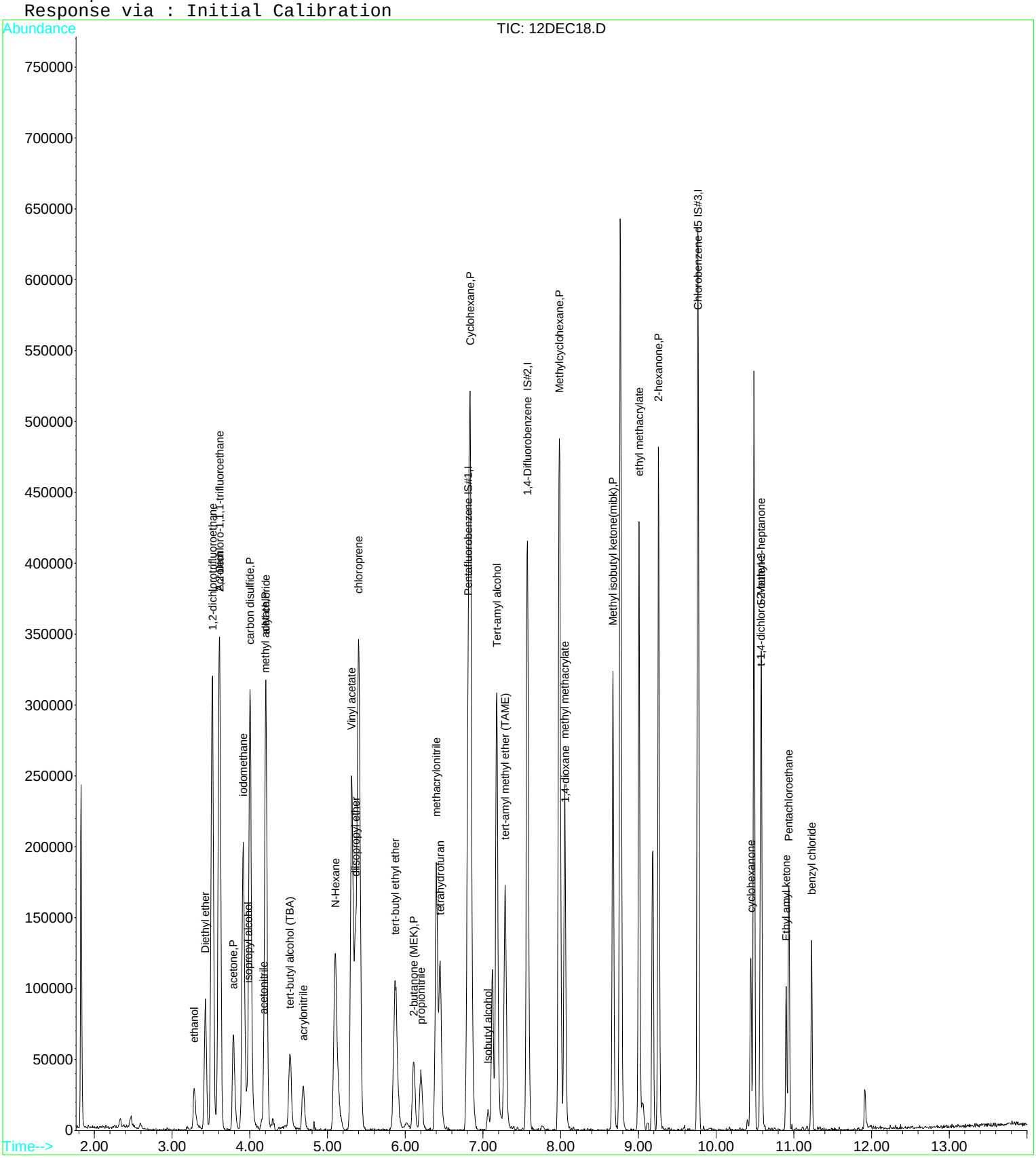
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	49309	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	72866	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	98732	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.29	45	36494	1417.03	ug/L		99
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	228388	11.27	ug/L		97
4) 1,2-dichlorotrifluoroethan	3.52	67	186975	11.20	ug/L		92
5) Diethyl ether	3.43	59	55280	9.97	ug/L		97
6) isopropyl alcohol	3.97	45	40977	332.52	ug/L		89
7) Acrolein	3.61	56	19847	45.70	ug/L		98
8) acetone	3.79	43	107245	133.24	ug/L		93
9) tert-butyl alcohol (TBA)	4.52	59	79509	371.51	ug/L		100
10) acetonitrile	4.17	41	13712m	44.75	ug/L		
11) methyl acetate	4.20	43	201932	86.76	ug/L		99
12) allyl chloride	4.21	41	218233	11.52	ug/L		98
13) iodomethane	3.92	142	282733	23.84	ug/L		97
14) acrylonitrile	4.69	53	32445	28.22	ug/L		98
15) carbon disulfide	4.00	76	534607	12.54	ug/L		96
16) N-Hexane	5.10	57	107781	9.62	ug/L		94
17) diisopropyl ether	5.35	87	66422	6.71	ug/L		86
18) Vinyl acetate	5.31	43	509423	51.56	ug/L		99
19) chloroprene	5.40	53	276386	14.94	ug/L		89
20) tert-butyl ethyl ether	5.87	59	153622	7.10	ug/L		99
21) 2-butanone (MEK)	6.11	43	78582	59.53	ug/L		96
22) propionitrile	6.20	54	59434	146.26	ug/L		95
23) Isobutyl alcohol	7.07	43	9983	113.48	ug/L		88
24) methacrylonitrile	6.40	67	107151	64.75	ug/L		96
25) Tert-amyl alcohol	7.18	59	172136	1007.26	ug/L		93
26) tetrahydrofuran	6.45	42	93801	110.78	ug/L		90
27) Cyclohexane	6.84	56	193480	8.90	ug/L		91
28) tert-amyl methyl ether (TA	7.29	73	135965	7.34	ug/L		97
30) methyl methacrylate	8.05	69	95960	36.17	ug/L		95
31) Methylcyclohexane	7.98	55	155073	11.98	ug/L		95
32) 1,4-dioxane	8.07	88	29180	1127.81	ug/L		93
33) Methyl isobutyl ketone(mib	8.67	43	175294	67.30	ug/L		98
34) ethyl methacrylate	9.01	69	215151	38.47	ug/L		98
35) 2-hexanone	9.26	43	239481	139.40	ug/L		95
37) 5-Methyl-3-heptanone	10.59	43	48733	20.96	ug/L		92
38) cyclohexanone	10.45	55	40349	189.67	ug/L		98
39) t-1,4-dichloro-2-butene	10.57	75	32467	31.16	ug/L	#	77
40) Ethyl amyl ketone	10.90	57	21158	10.42	ug/L		96
41) Pentachloroethane	10.94	167	21013	5.25	ug/L		90
42) benzyl chloride	11.23	91	80436	14.31	ug/L		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC18.D Vial: 18
Acq On : 12 Dec 2021 1:38 pm Operator: MGC
Sample : 2125249-CAL9 Inst : MS-V5
Misc : 1;1L12071;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:22 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC19.D Vial: 19
Acq On : 12 Dec 2021 2:02 pm Operator: MGC
Sample : 2125249-CALA Inst : MS-V5
Misc : 1;1L12072;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:18 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

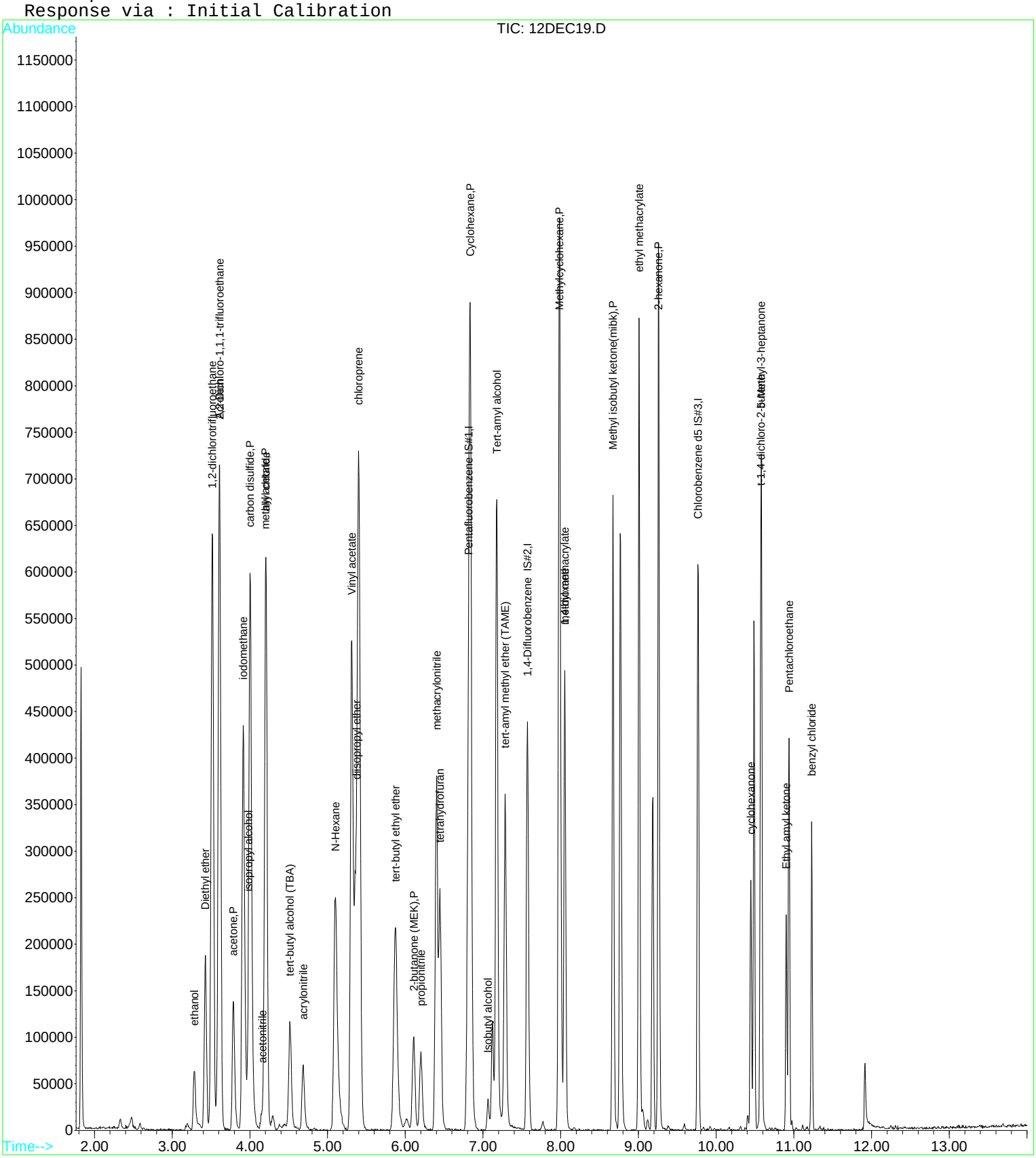
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	50542	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	76314	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.76	119	99474	10.00	ug/L	0.00
Target Compounds						Qvalue
2) ethanol	3.28	45	80055	3032.62	ug/L	97
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	467532	22.52	ug/L	97
4) 1,2-dichlorotrifluoroethan	3.52	67	372573	21.78	ug/L	91
5) Diethyl ether	3.43	59	112126	19.73	ug/L	97
6) isopropyl alcohol	3.98	45	83371	660.04	ug/L	89
7) Acrolein	3.61	56	46775	105.07	ug/L	96
8) acetone	3.79	43	214517	260.02	ug/L	92
9) tert-butyl alcohol (TBA)	4.51	59	167440	763.28	ug/L	100
10) acetonitrile	4.15	41	32352	103.02	ug/L	89
11) methyl acetate	4.20	43	414672	173.82	ug/L	97
12) allyl chloride	4.21	41	428694	22.07	ug/L	94
13) iodomethane	3.91	142	606839	43.89	ug/L	96
14) acrylonitrile	4.69	53	68263	57.93	ug/L	97
15) carbon disulfide	4.00	76	1113979	25.49	ug/L	97
16) N-Hexane	5.10	57	220710	19.22	ug/L	94
17) diisopropyl ether	5.36	87	130768	12.88	ug/L	87
18) Vinyl acetate	5.31	43	1068002	105.47	ug/L	100
19) chloroprene	5.40	53	569194	30.01	ug/L	91
20) tert-butyl ethyl ether	5.87	59	320076	14.42	ug/L	99
21) 2-butanone (MEK)	6.11	43	160149	118.35	ug/L	98
22) propionitrile	6.20	54	122766	294.75	ug/L	97
23) Isobutyl alcohol	7.06	43	22513	249.67	ug/L	95
24) methacrylonitrile	6.40	67	216151	127.44	ug/L	98
25) Tert-amyl alcohol	7.18	59	388341	2216.95	ug/L	97
26) tetrahydrofuran	6.45	42	188336	217.01	ug/L	89
27) Cyclohexane	6.83	56	398560	17.89	ug/L	94
28) tert-amyl methyl ether (TA	7.29	73	274611	14.47	ug/L	96
30) methyl methacrylate	8.05	69	193800	69.75	ug/L	97
31) Methylcyclohexane	7.98	55	310828	22.92	ug/L	94
32) 1,4-dioxane	8.06	88	58840	2171.43	ug/L	95
33) Methyl isobutyl ketone(mib	8.67	43	361799	132.63	ug/L	99
34) ethyl methacrylate	9.01	69	443369	75.69	ug/L	98
35) 2-hexanone	9.26	43	480747	267.19	ug/L	96
37) 5-Methyl-3-heptanone	10.58	43	108003	46.11	ug/L	95
38) cyclohexanone	10.45	55	89656	418.31	ug/L	96
39) t-1,4-dichloro-2-butene	10.57	75	76333	67.37	ug/L	81
40) Ethyl amyl ketone	10.90	57	46642	22.79	ug/L	95
41) Pentachloroethane	10.94	167	51199	12.71	ug/L	97
42) benzyl chloride	11.23	91	194712	31.61	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC19.D Vial: 19
Acq On : 12 Dec 2021 2:02 pm Operator: MGC
Sample : 2125249-CALA Inst : MS-V5
Misc : 1;1L12072;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:18 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC20.D Vial: 20
Acq On : 12 Dec 2021 2:27 pm Operator: MGC
Sample : 2125249-CALB Inst : MS-V5
Misc : 1;1L12073;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:18 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

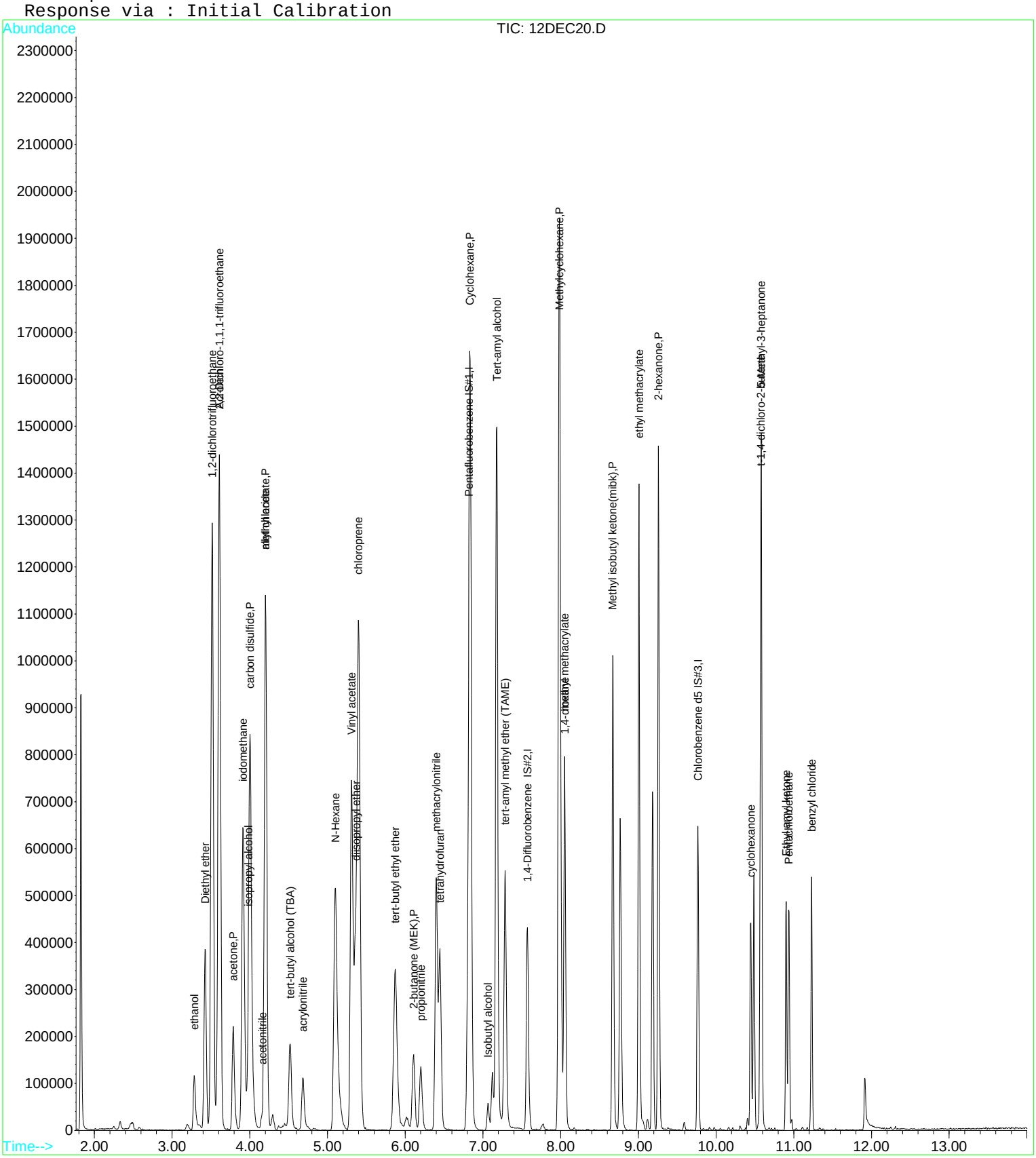
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	50243	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	77046	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	102766	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.29	45	136262	5192.56	ug/L		98
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	933094	45.21	ug/L		97
4) 1,2-dichlorotrifluoroethan	3.52	67	731224	42.99	ug/L		89
5) Diethyl ether	3.43	59	234584	41.53	ug/L		94
6) isopropyl alcohol	3.98	45	138509	1103.09	ug/L		100
7) Acrolein	3.61	56	77821	175.85	ug/L		94
8) acetone	3.79	43	330444	402.92	ug/L		92
9) tert-butyl alcohol (TBA)	4.52	59	267677	1227.48	ug/L		100
10) acetonitrile	4.16	41	46583	149.22	ug/L	#	84
11) methyl acetate	4.20	43	852572	359.51	ug/L		97
12) allyl chloride	4.21	41	649293	33.63	ug/L		94
13) iodomethane	3.91	142	924248	61.43	ug/L		96
14) acrylonitrile	4.68	53	110560	94.38	ug/L		98
15) carbon disulfide	4.00	76	1649565	37.97	ug/L		97
16) N-Hexane	5.10	57	463320	40.60	ug/L		94
17) diisopropyl ether	5.36	87	208297	20.64	ug/L		79
18) Vinyl acetate	5.31	43	1532252	152.21	ug/L		99
19) chloroprene	5.40	53	851378	45.16	ug/L		91
20) tert-butyl ethyl ether	5.87	59	493095	22.35	ug/L		99
21) 2-butanone (MEK)	6.11	43	251076	186.65	ug/L		96
22) propionitrile	6.20	54	198965	480.54	ug/L		96
23) Isobutyl alcohol	7.07	43	40224	448.74	ug/L		95
24) methacrylonitrile	6.40	67	333473	197.78	ug/L		96
25) Tert-amyl alcohol	7.18	59	841127	4830.38	ug/L		96
26) tetrahydrofuran	6.45	42	289406	335.45	ug/L		90
27) Cyclohexane	6.84	56	797888	36.03	ug/L		93
28) tert-amyl methyl ether (TA	7.29	73	422457	22.40	ug/L		97
30) methyl methacrylate	8.05	69	297112	105.91	ug/L		97
31) Methylcyclohexane	7.98	55	644832	47.10	ug/L		95
32) 1,4-dioxane	8.06	88	98560	3602.69	ug/L		94
33) Methyl isobutyl ketone(mib	8.67	43	546504	198.43	ug/L		99
34) ethyl methacrylate	9.01	69	666339	112.68	ug/L		97
35) 2-hexanone	9.26	43	734031	404.08	ug/L		96
37) 5-Methyl-3-heptanone	10.58	43	230149	95.11	ug/L		94
38) cyclohexanone	10.45	55	147880	667.87	ug/L		92
39) t-1,4-dichloro-2-butene	10.57	75	126890	102.54	ug/L		83
40) Ethyl amyl ketone	10.90	57	108253	51.20	ug/L		95
41) Pentachloroethane	10.94	167	58342	14.01	ug/L		94
42) benzyl chloride	11.23	91	316602	46.97	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC20.D Vial: 20
Acq On : 12 Dec 2021 2:27 pm Operator: MGC
Sample : 2125249-CALB Inst : MS-V5
Misc : 1;1L12073;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:18 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC21.D Vial: 21
Acq On : 12 Dec 2021 2:51 pm Operator: MGC
Sample : 2125249-CALC Inst : MS-V5
Misc : 1;1L12074;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:19 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration
DataAcq Meth : 82605

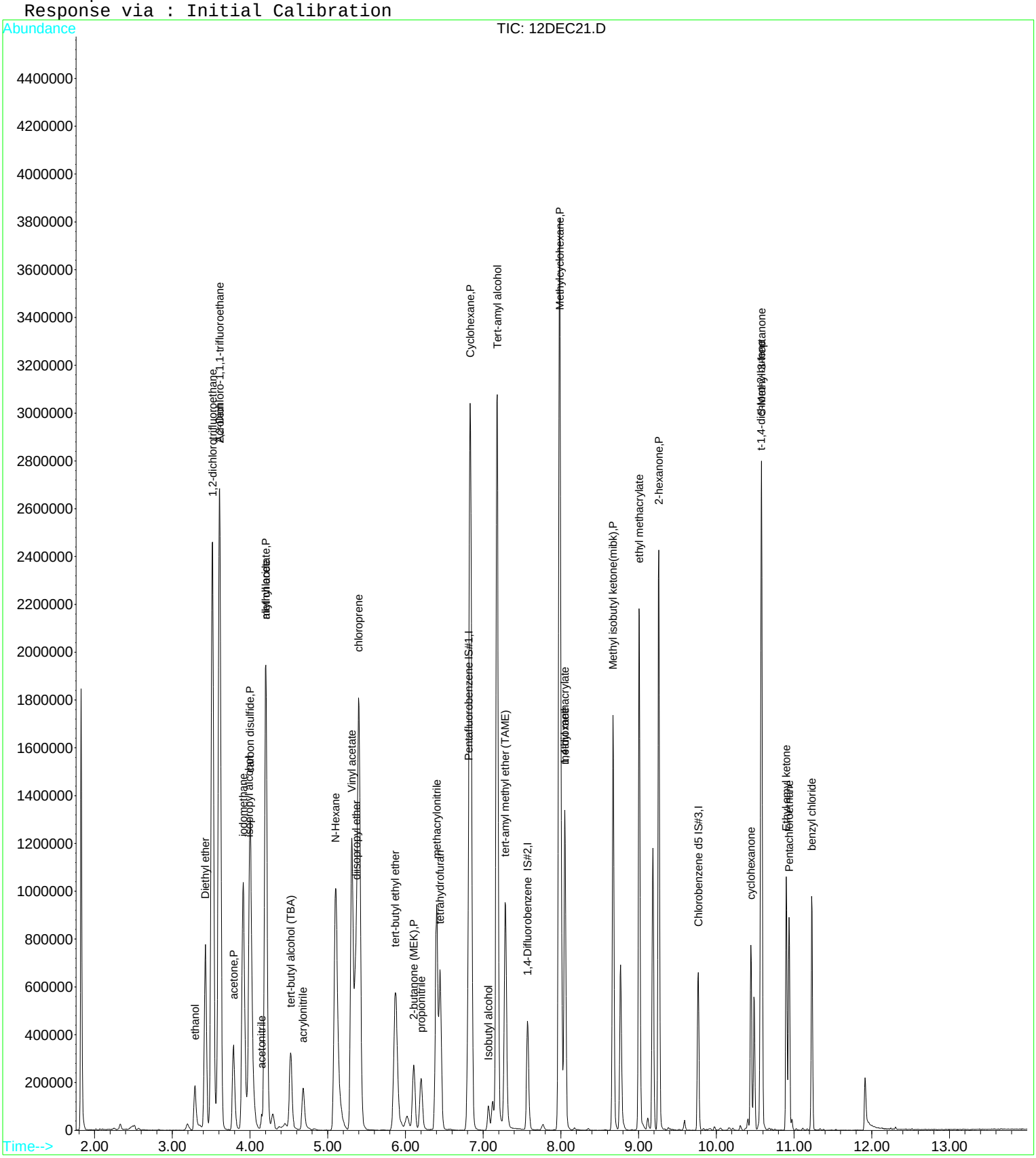
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	51988	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	80673	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	107683	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.29	45	216177	7961.39	ug/L		100
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	1768396	82.80	ug/L		97
4) 1,2-dichlorotrifluoroethan	3.51	67	1423377	80.88	ug/L		89
5) Diethyl ether	3.43	59	466705	79.85	ug/L		96
6) isopropyl alcohol	3.98	45	225996	1739.43	ug/L		98
7) Acrolein	3.60	56	127735	278.96	ug/L		87
8) acetone	3.79	43	542540	639.33	ug/L		93
9) tert-butyl alcohol (TBA)	4.52	59	476496	2111.71	ug/L		100
10) acetonitrile	4.15	41	85873	265.84	ug/L	#	78
11) methyl acetate	4.20	43	1609258	655.81	ug/L		95
12) allyl chloride	4.21	41	1051787	52.65	ug/L		93
13) iodomethane	3.91	142	1540840	87.94	ug/L		97
14) acrylonitrile	4.68	53	176121	145.30	ug/L		96
15) carbon disulfide	4.00	76	2687657	59.79	ug/L		98
16) N-Hexane	5.11	57	916696	77.63	ug/L		95
17) diisopropyl ether	5.36	87	353050	33.81	ug/L		80
18) Vinyl acetate	5.31	43	2526995	242.61	ug/L		99
19) chloroprene	5.40	53	1410362	72.30	ug/L		90
20) tert-butyl ethyl ether	5.87	59	847102	37.11	ug/L		98
21) 2-butanone (MEK)	6.11	43	423253	304.09	ug/L		94
22) propionitrile	6.20	54	317582	741.27	ug/L		96
23) Isobutyl alcohol	7.07	43	66133	713.02	ug/L		95
24) methacrylonitrile	6.40	67	551585	316.16	ug/L		97
25) Tert-amyl alcohol	7.18	59	1720244	9547.33	ug/L		97
26) tetrahydrofuran	6.45	42	483501	541.61	ug/L		88
27) Cyclohexane	6.83	56	1537581	67.11	ug/L		93
28) tert-amyl methyl ether (TA	7.28	73	744071	38.12	ug/L		98
30) methyl methacrylate	8.05	69	519796	176.96	ug/L		96
31) Methylcyclohexane	7.99	55	1250057	87.20	ug/L		96
32) 1,4-dioxane	8.06	88	155304	5421.64	ug/L		95
33) Methyl isobutyl ketone(mib	8.67	43	920869	319.33	ug/L		99
34) ethyl methacrylate	9.01	69	1122927	181.35	ug/L		97
35) 2-hexanone	9.26	43	1209342	635.81	ug/L		98
37) 5-Methyl-3-heptanone	10.58	43	447414	176.46	ug/L		92
38) cyclohexanone	10.44	55	245623	1058.65	ug/L		91
39) t-1,4-dichloro-2-butene	10.57	75	229666	162.95	ug/L		87
40) Ethyl amyl ketone	10.90	57	220300	99.43	ug/L		93
41) Pentachloroethane	10.94	167	114591	26.27	ug/L		93
42) benzyl chloride	11.23	91	585203	75.46	ug/L		98

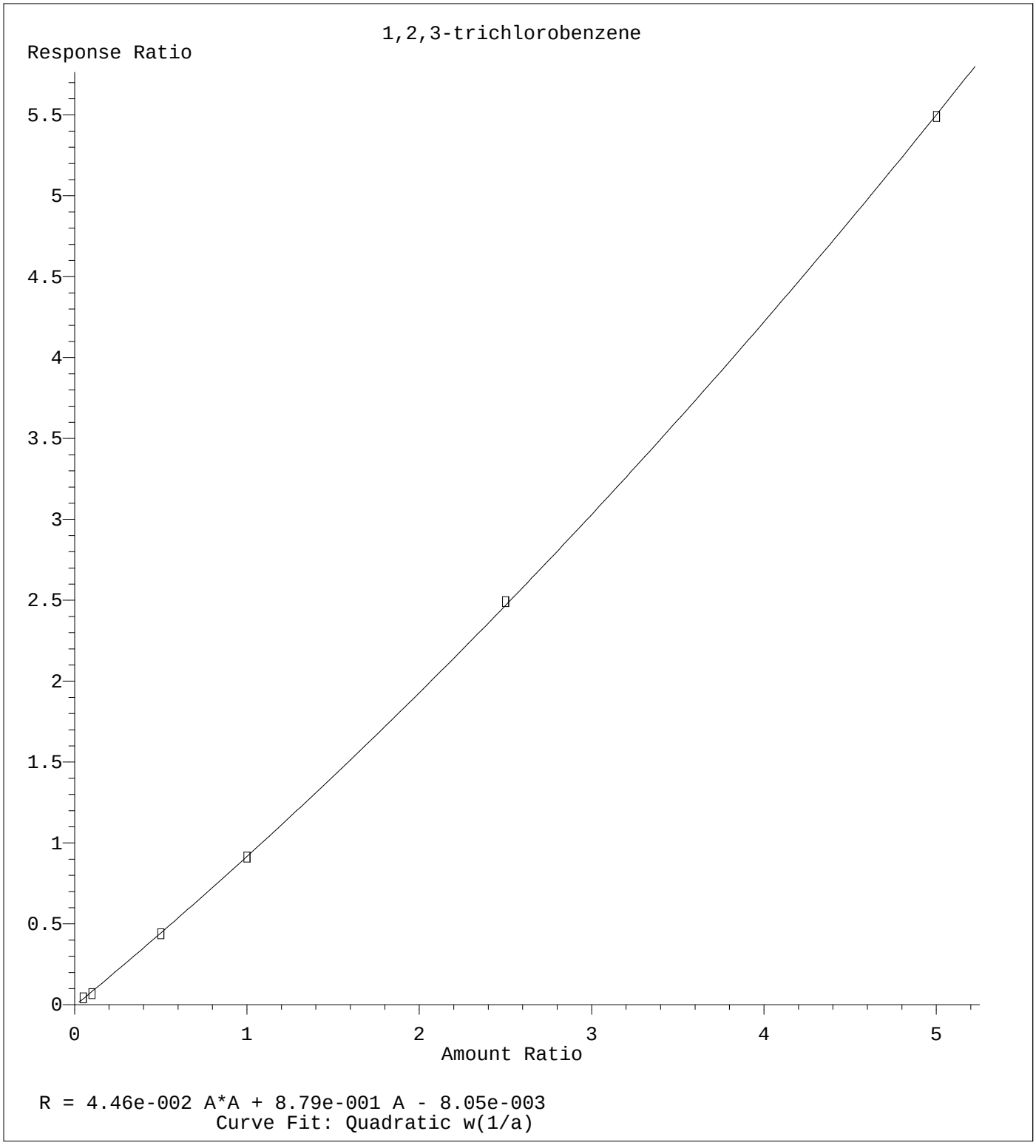
(#) = qualifier out of range (m) = manual integration

Quantitation Report

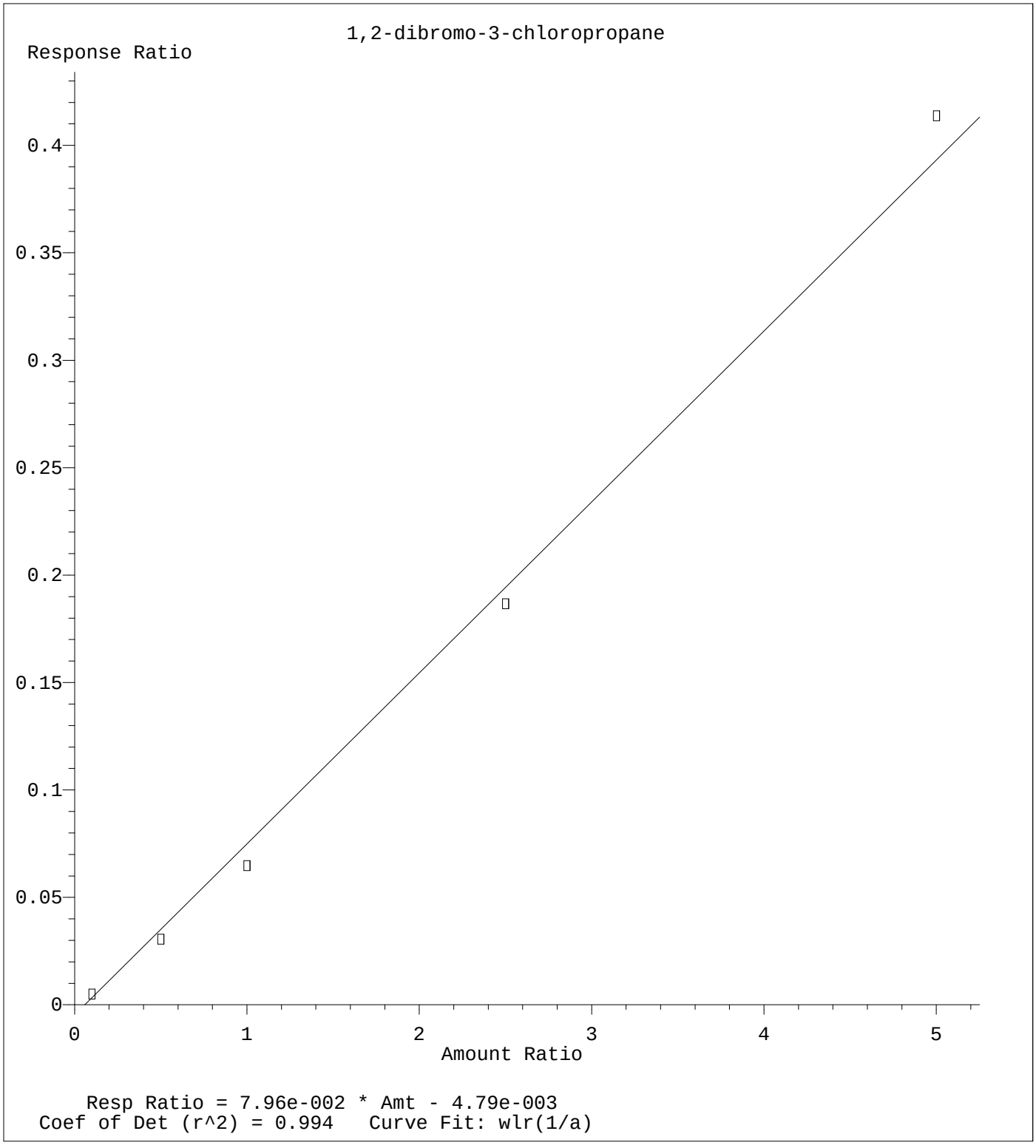
Data File : D:\DATA\DEC2021C\DEC12\12DEC21.D Vial: 21
Acq On : 12 Dec 2021 2:51 pm Operator: MGC
Sample : 2125249-CALC Inst : MS-V5
Misc : 1;1L12074;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:19 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 02 13:27:31 2021
Response via : Initial Calibration

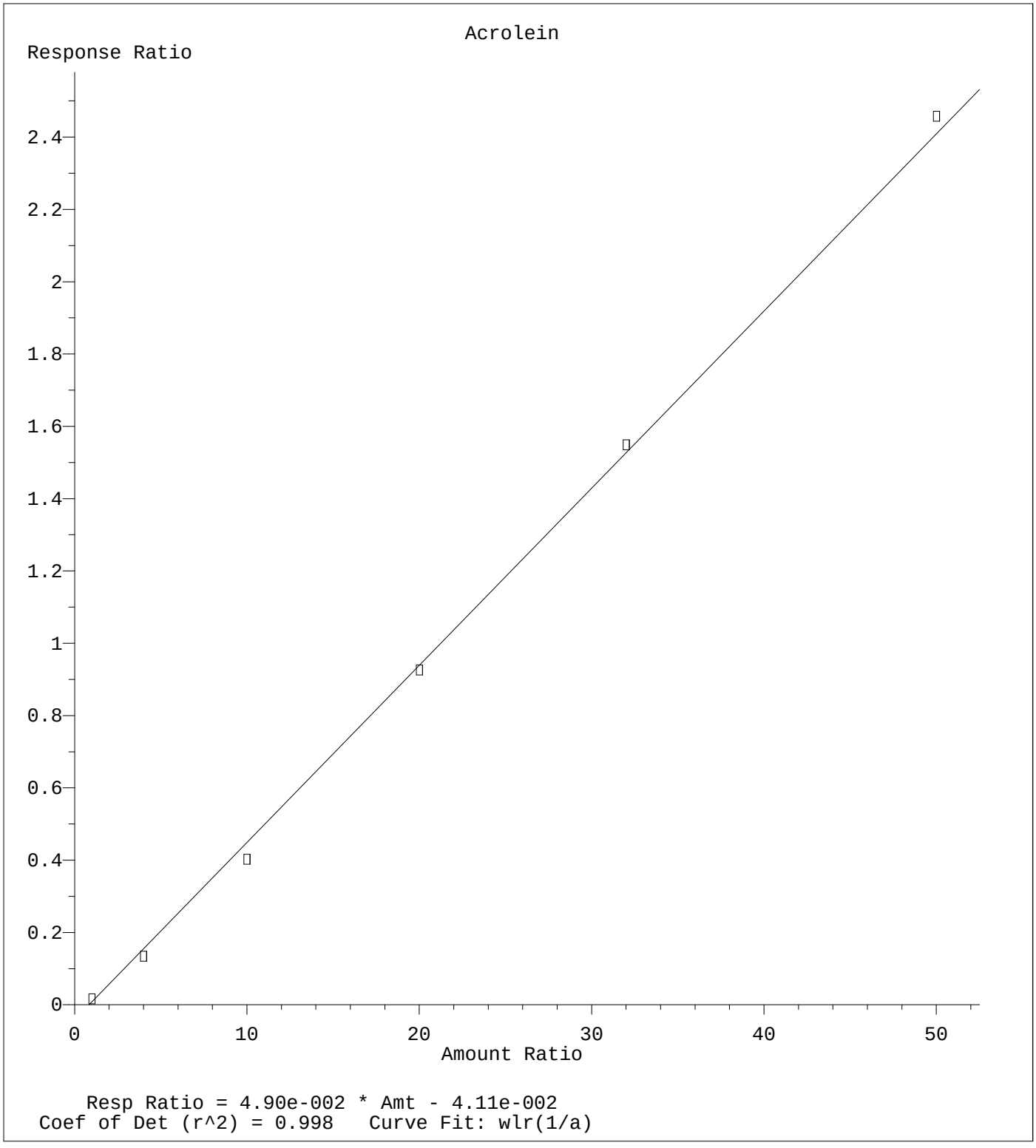




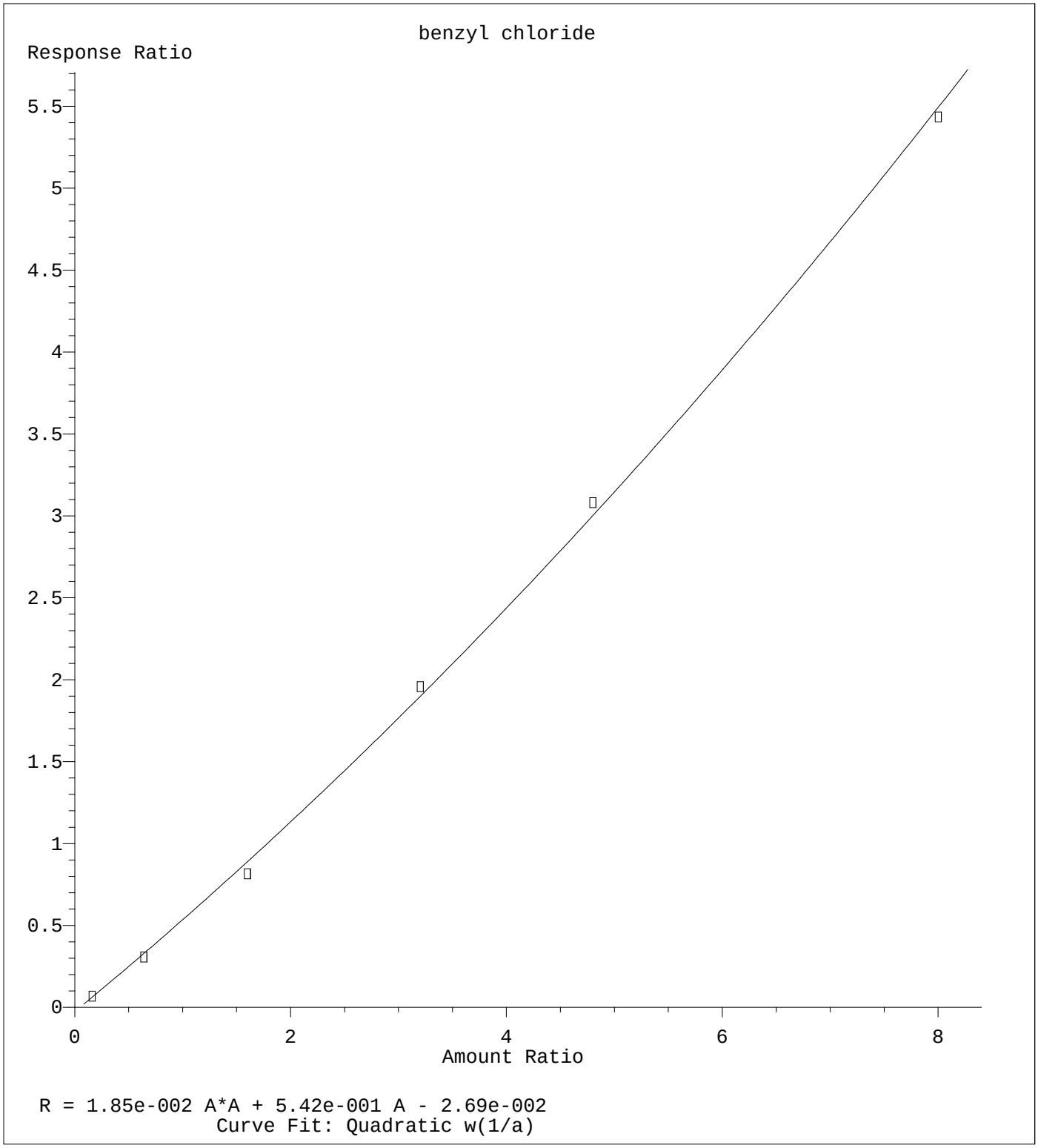
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



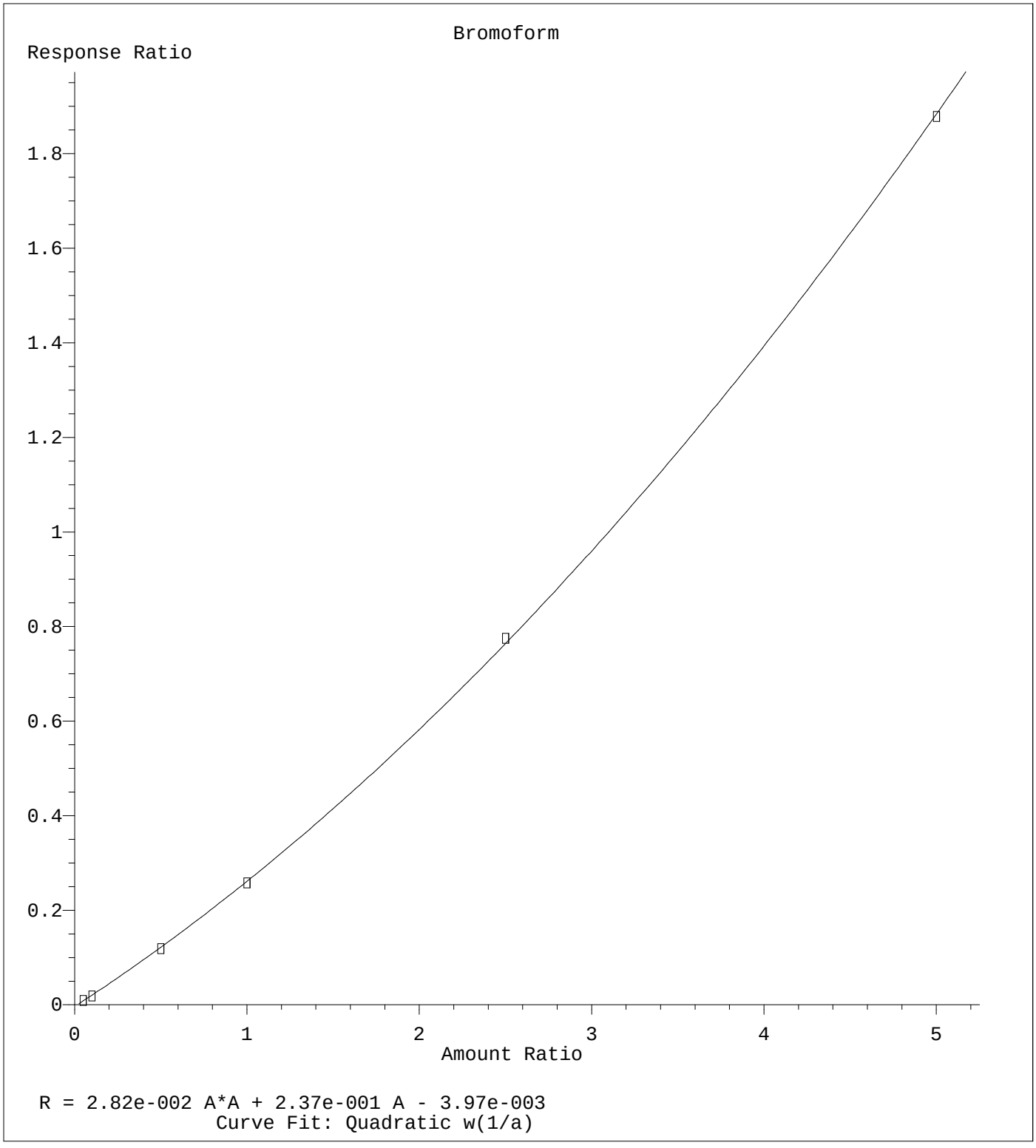
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



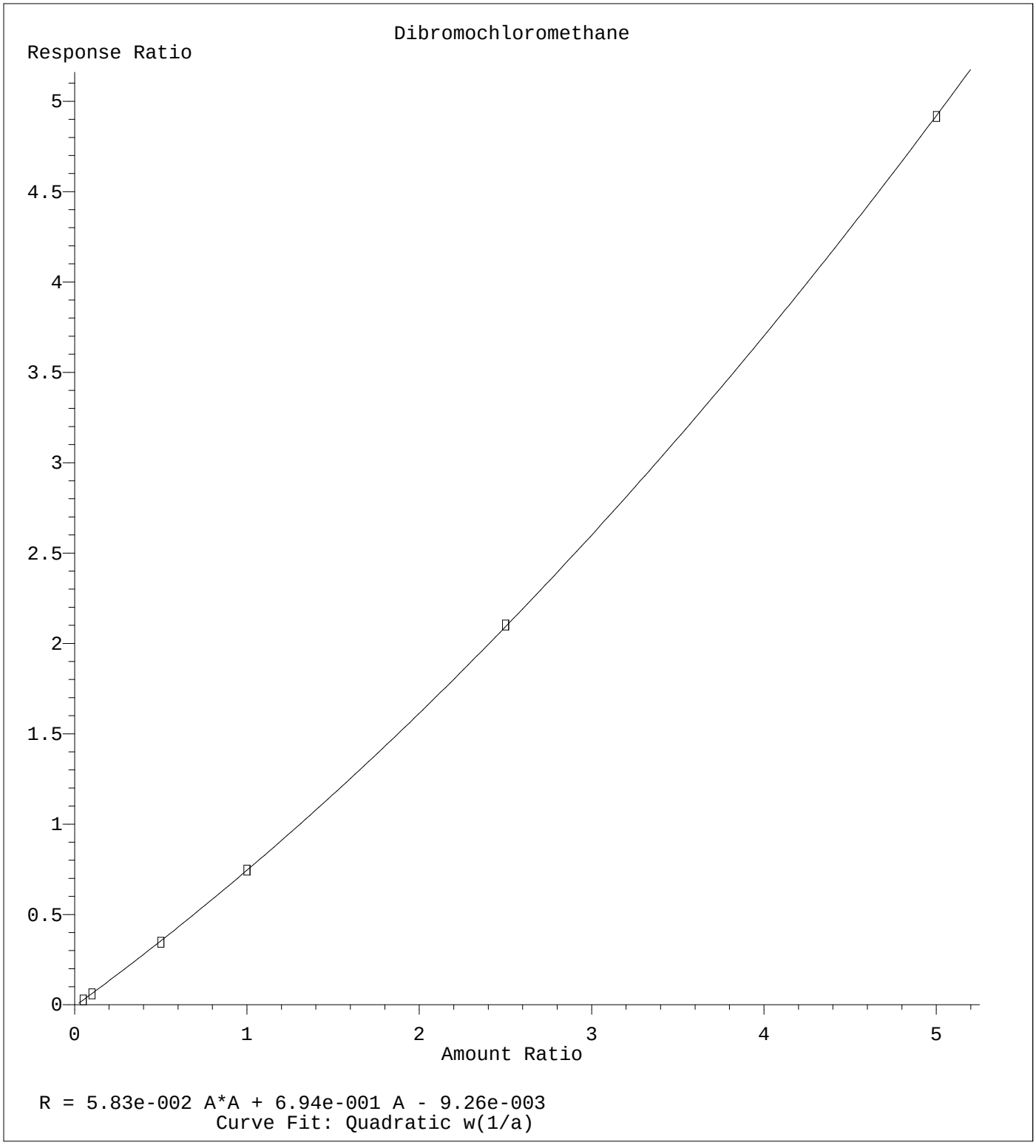
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M
Calibration Table Last Updated: Thu Dec 23 07:26:27 2021



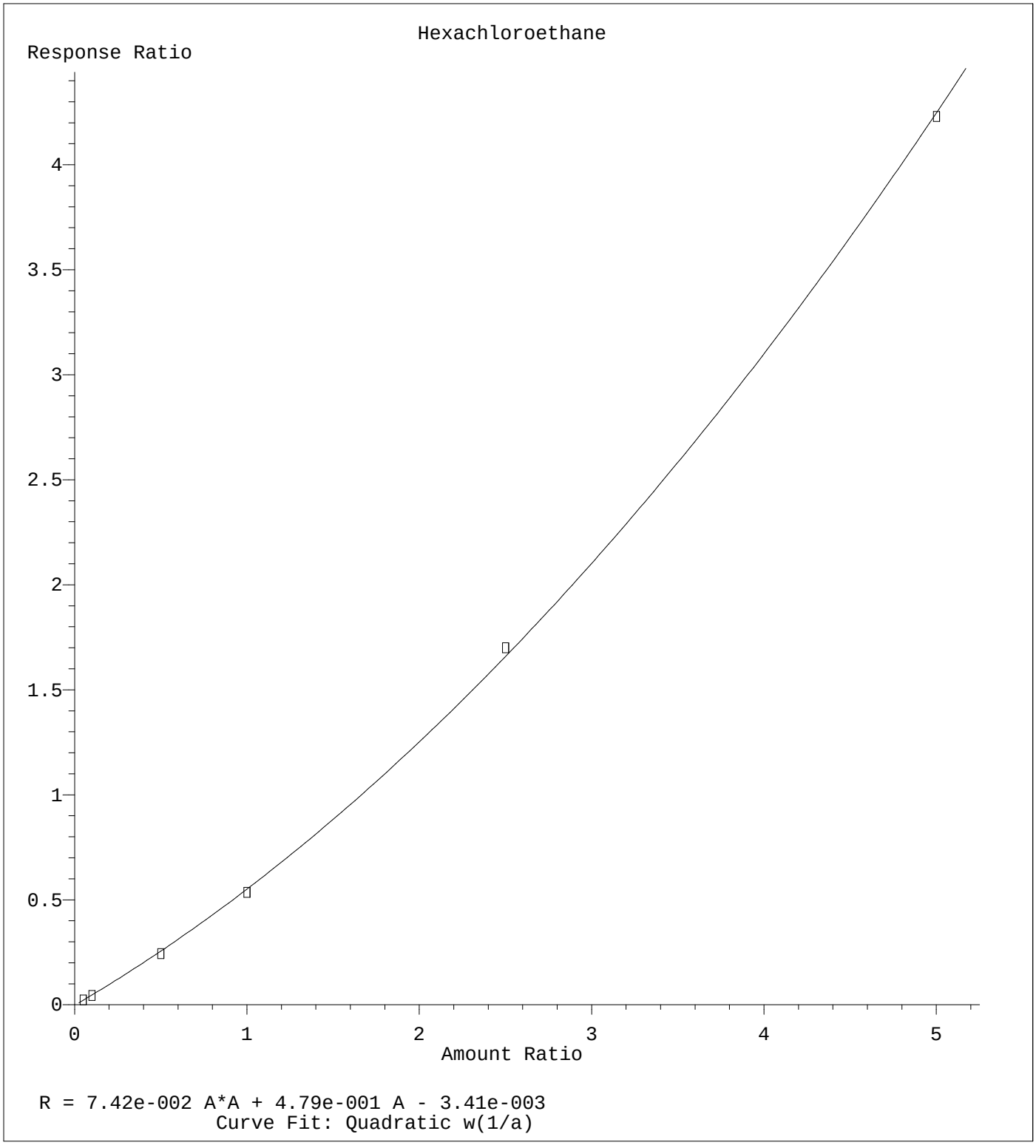
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M
Calibration Table Last Updated: Thu Dec 23 07:26:27 2021



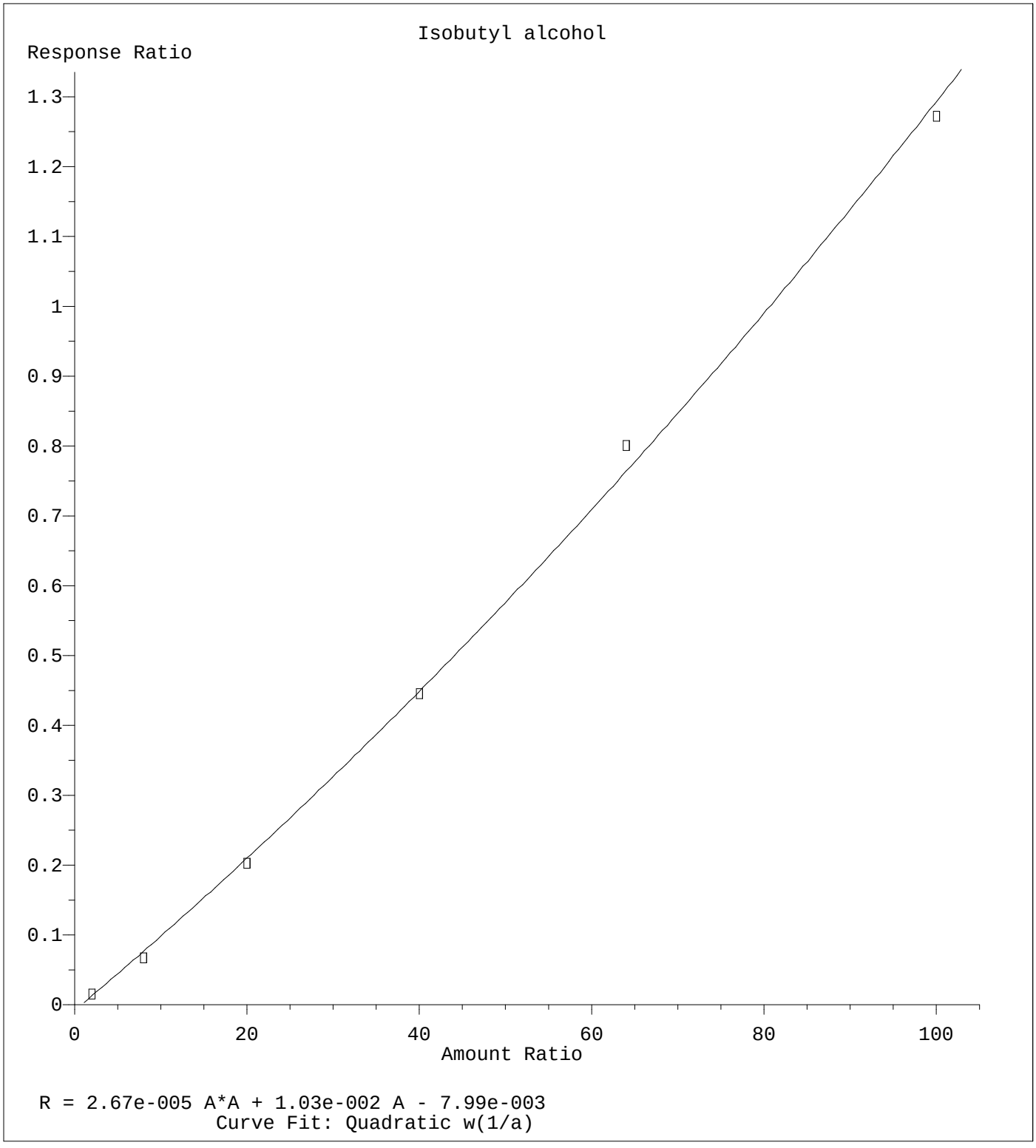
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



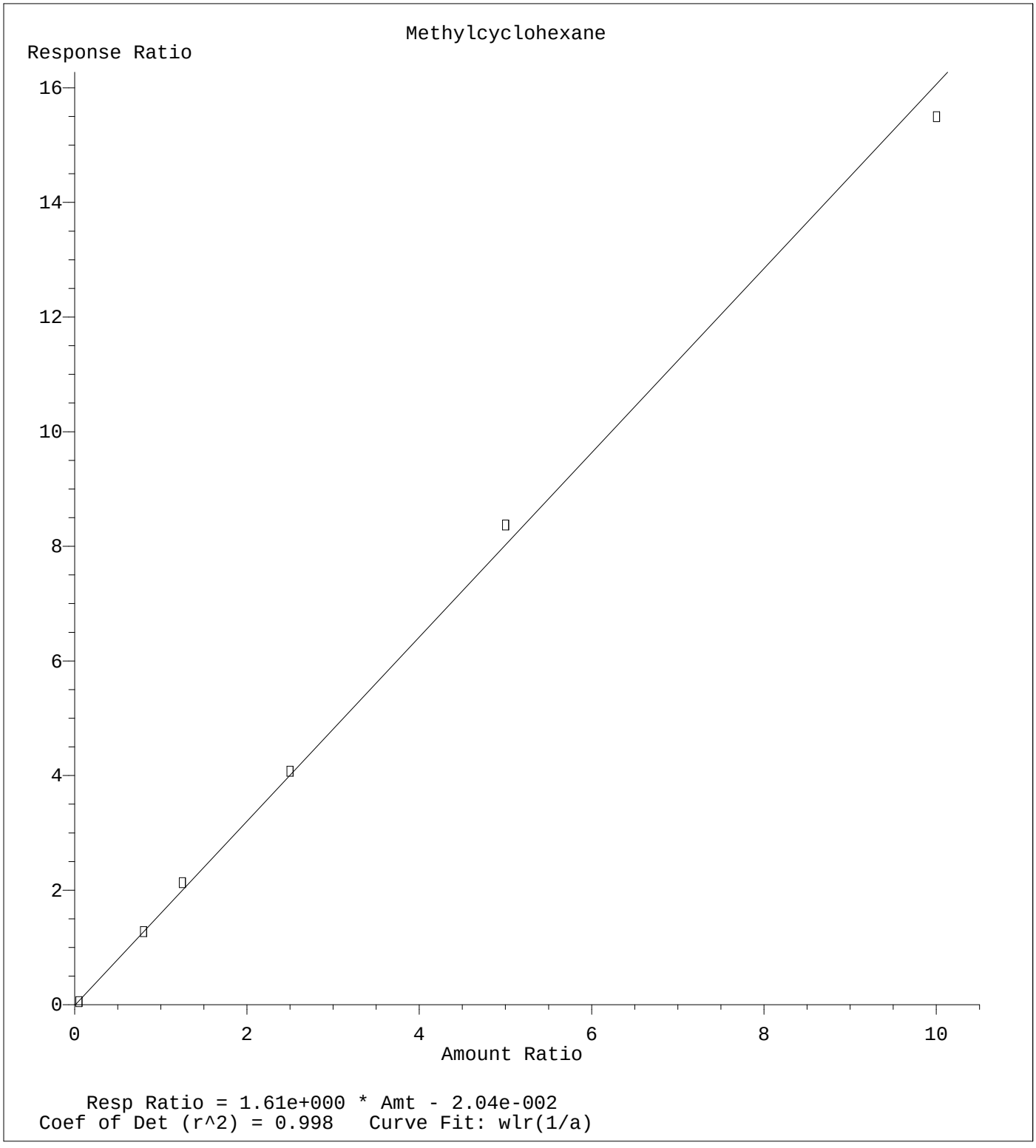
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



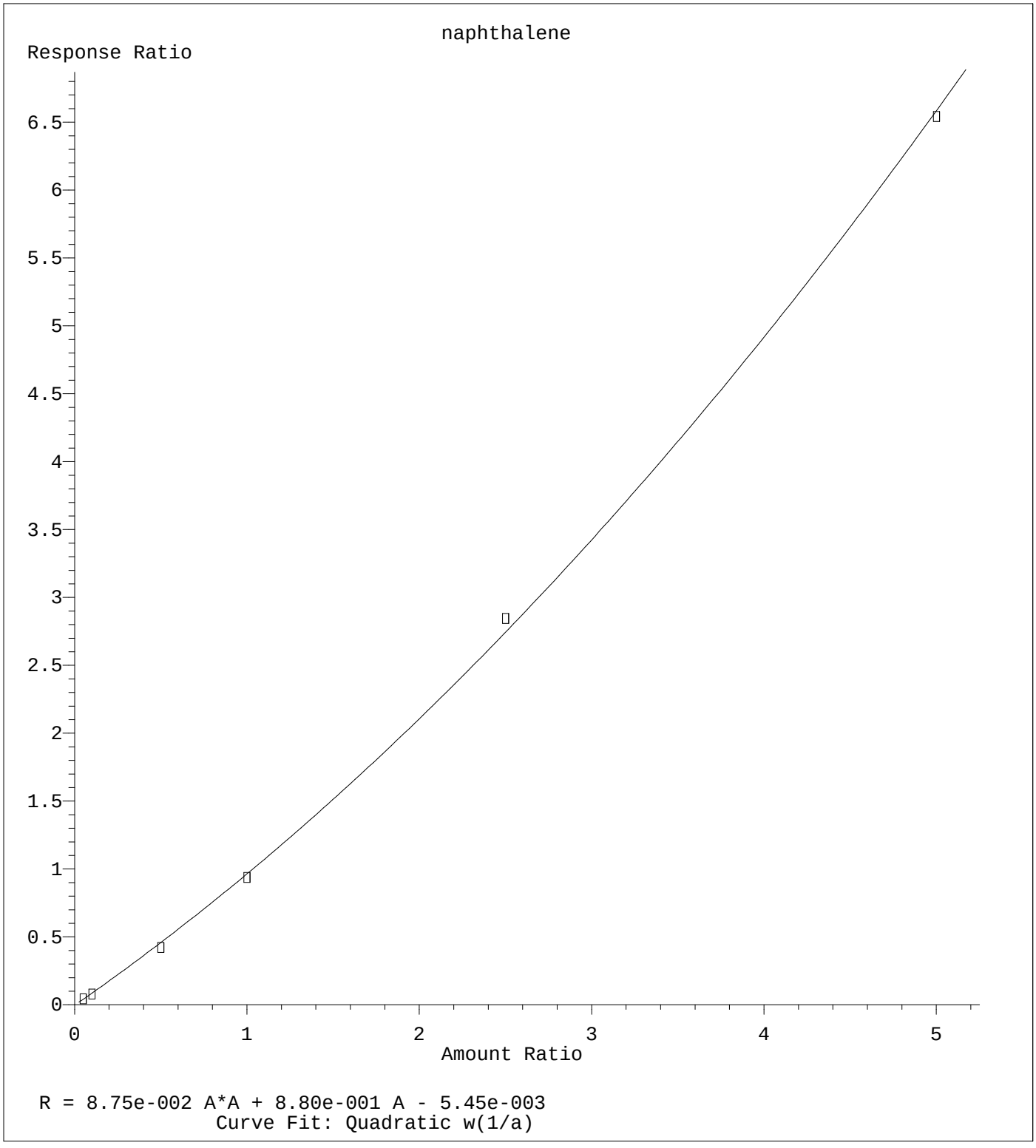
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



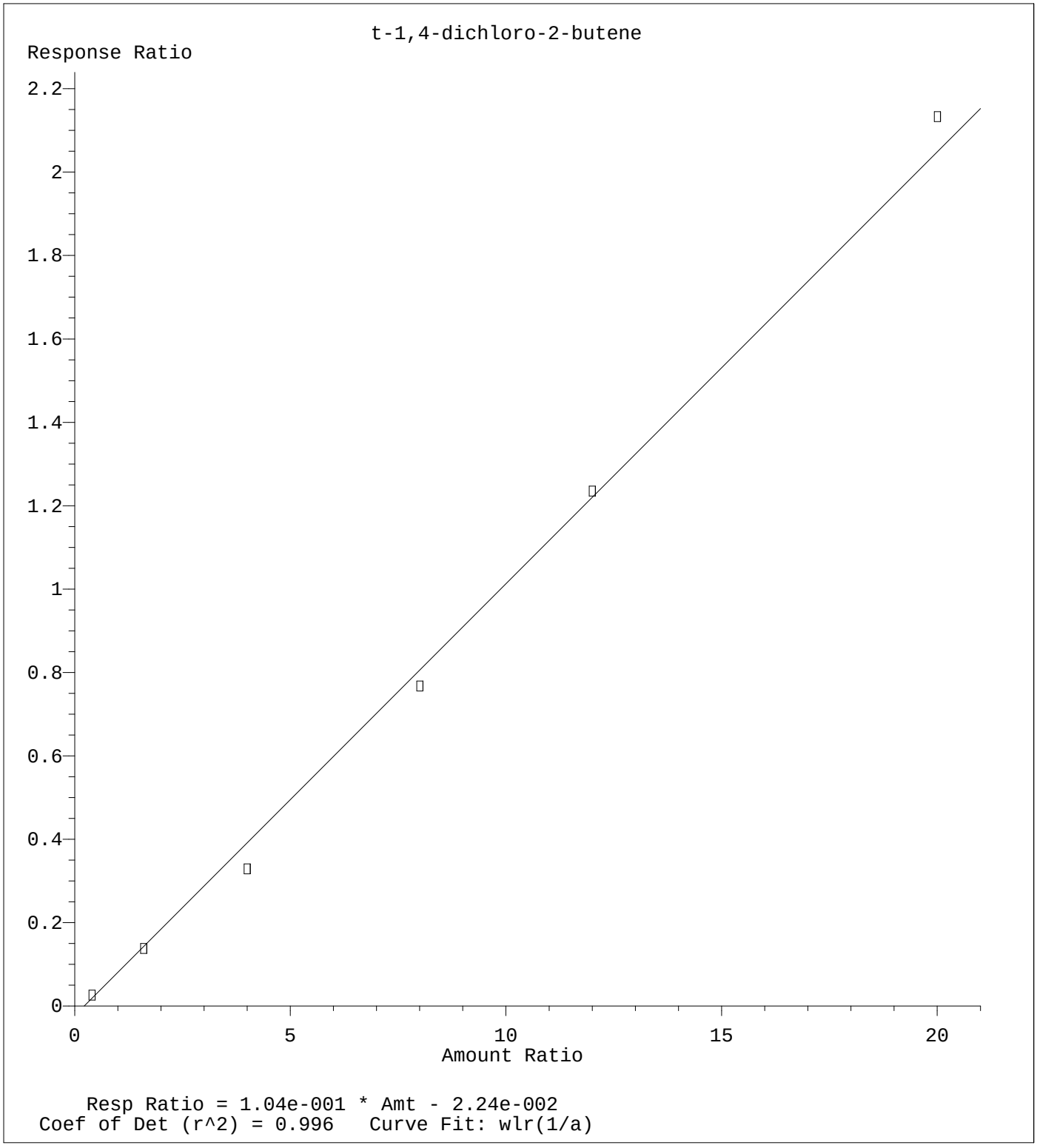
Method Name: C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M
Calibration Table Last Updated: Thu Dec 23 07:26:27 2021



Method Name: C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M
Calibration Table Last Updated: Thu Dec 23 07:26:27 2021



Method Name: C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M
Calibration Table Last Updated: Thu Dec 23 07:04:37 2021



Method Name: C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M
Calibration Table Last Updated: Thu Dec 23 07:26:27 2021

Raw Data - ICV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC12.D Vial: 12
Acq On : 12 Dec 2021 11:13 am Operator: MGC
Sample : 2125249-ICV1 Inst : MS-V5
Misc : 1;1L12067;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:12 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	48832	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	74292	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	100452	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	90436	9.81	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 98.10%			
33) Toluene d8 SMC#2	8.77	98	443513	10.76	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 107.60%			
51) Bromofluorobenzene SMC#3	10.48	95	146342	9.76	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 97.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	526936	25.28	ug/L	98
3) Chlorodifluoromethane	1.89	51	380464	24.12	ug/L	95
4) Chloromethane	2.07	50	244217	24.58	ug/L	97
5) Vinyl chloride	2.21	62	321026	24.74	ug/L	99
6) Bromomethane	2.59	94	307280	27.35	ug/L	100
7) Chloroethane	2.73	64	224706	25.42	ug/L	98
8) Dichlorofluoromethane	3.02	67	613903	24.30	ug/L	100
9) Trichlorofluoromethane	3.06	101	710972	24.45	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.75	101	337129	25.31	ug/L	99
11) 1,1-Dichloroethene	3.73	61	460061	24.91	ug/L	99
12) Methylene chloride	4.38	84	267115	25.61	ug/L	100
13) MTBE	4.72	73	409296	26.37	ug/L	99
14) T-1,2-dichloroethene	4.73	96	340046	25.12	ug/L	99
15) 1,1-Dichloroethane	5.30	63	534845	24.81	ug/L	99
16) 2,2-Dichloropropane	6.12	77	532737	26.70	ug/L	100
17) Cis-1,2-dichloroethene	6.11	96	342930	25.63	ug/L	99
18) Bromochloromethane	6.43	128	114058	26.66	ug/L	99
19) Chloroform	6.57	83	592124	24.86	ug/L	98
20) 1,1,1-Trichloroethane	6.75	97	629536	25.64	ug/L	91
21) 1,1-Dichloropropene	6.94	75	455744	25.08	ug/L	99
22) Carbon tetrachloride	6.93	119	463272	28.58	ug/L	99
24) 1,2-Dichloroethane	7.20	62	272664	24.58	ug/L	99
25) Benzene	7.15	78	1165552	24.84	ug/L	98
27) Trichloroethene	7.78	130	346585	24.93	ug/L	99
28) 1,2-Dichloropropane	8.00	63	227848	26.51	ug/L	97
29) Dibromomethane	8.08	93	107028	26.18	ug/L	100
30) Bromodichloromethane	8.22	83	326323	27.89	ug/L	99
31) 2-ceve	8.44	63	256766	115.25	ug/L	100
32) Cis-1,3-dichloropropene	8.56	75	347897	28.37	ug/L	99
34) Toluene	8.82	92	779191	25.53	ug/L	94
35) Trans-1,3-dichloropropene	8.98	75	262865	29.32	ug/L	99
36) 1,1,2-Trichloroethane	9.12	97	147358	27.17	ug/L	99
37) Tetrachloroethene (PCE)	9.18	166	394579	25.93	ug/L	98
38) 1,3-Dichloropropane	9.23	76	238508	26.57	ug/L	100
39) Dibromochloromethane	9.38	129	169271	26.88	ug/L	99
40) 1,2-Dibromoethane	9.47	107	129204	27.20	ug/L	100
42) Chlorobenzene	9.79	112	750850	23.85	ug/L	96
43) 1,1,1,2-Tetrachloroethane	9.83	131	258464	26.34	ug/L	98
44) Ethylbenzene	9.84	106	462093	24.54	ug/L	78
45) P+m-Xylene	9.92	106	1056537	48.98	ug/L	80
46) O-Xylene	10.16	106	513355	25.24	ug/L	91
47) Styrene	10.17	104	778124	25.99	ug/L	96
48) Bromoform	10.30	173	80499	25.99	ug/L	98
49) Isopropylbenzene	10.37	105	1436053	24.04	ug/L	91
50) 1,1,2,2-Tetrachloroethane	10.55	83	129579	26.46	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC12.D Vial: 12
Acq On : 12 Dec 2021 11:13 am Operator: MGC
Sample : 2125249-ICV1 Inst : MS-V5
Misc : 1;1L12067;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:12 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

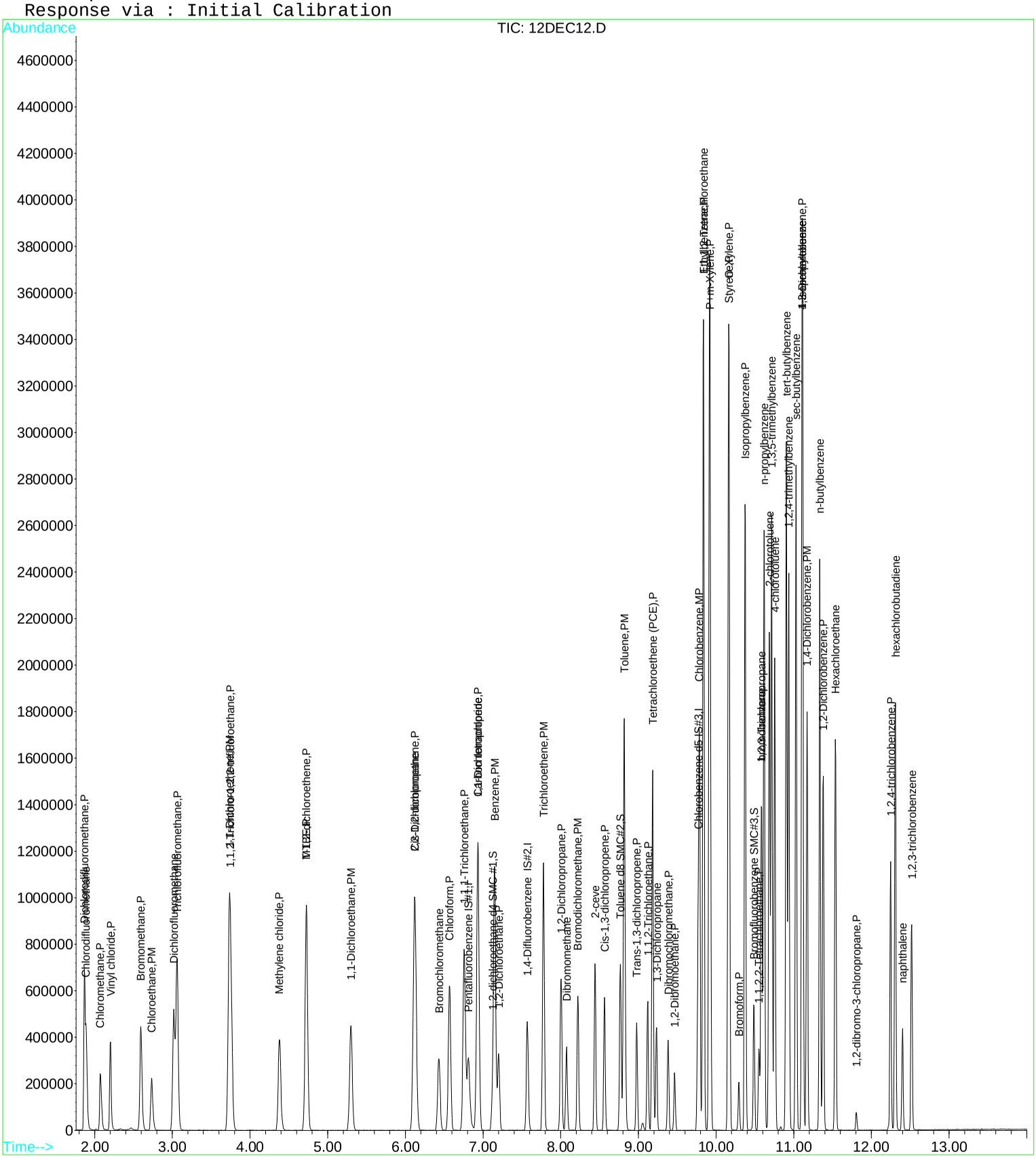
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	1,2,3-Trichloropropane	10.59	110	39677	26.00	ug/L	98
53)	n-propylbenzene	10.62	91	1601575	23.88	ug/L	89
54)	bromobenzene	10.58	156	328338	24.64	ug/L	99
55)	1,3,5-trimethylbenzene	10.72	105	1133724	24.59	ug/L	93
56)	2-chlorotoluene	10.68	91	1145916	23.96	ug/L	98
57)	4-chlorotoluene	10.76	91	1008233	23.89	ug/L	95
58)	tert-butylbenzene	10.90	119	1225622	24.13	ug/L	96
59)	1,2,4-trimethylbenzene	10.94	105	1047801	24.83	ug/L	93
60)	sec-butylbenzene	11.03	105	1462595	23.95	ug/L	90
61)	4-isopropyltoluene	11.10	119	1197033	24.76	ug/L	91
62)	1,3-Dichlorobenzene	11.11	146	635170	23.97	ug/L	96
63)	1,4-Dichlorobenzene	11.17	146	605534	24.35	ug/L	97
64)	n-butylbenzene	11.34	91	1011086	24.79	ug/L	94
65)	1,2-Dichlorobenzene	11.38	146	531624	24.57	ug/L	98
66)	Hexachloroethane	11.53	117	179310	26.48	ug/L	93
67)	1,2-dibromo-3-chloropropan	11.80	75	18937	24.28	ug/L	90
68)	1,2,4-trichlorobenzene	12.25	180	290349	25.92	ug/L	100
69)	hexachlorobutadiene	12.31	225	309187	26.63	ug/L	99
70)	naphthalene	12.40	128	273600	24.86	ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	243444	24.60	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC12.D Vial: 12
Acq On : 12 Dec 2021 11:13 am Operator: MGC
Sample : 2125249-ICV1 Inst : MS-V5
Misc : 1;1L12067;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:12 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC24.D Vial: 24
Acq On : 12 Dec 2021 4:04 pm Operator: MGC
Sample : 2125249-ICV2 Inst : MS-V5
Misc : 1;1L12075;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:32 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

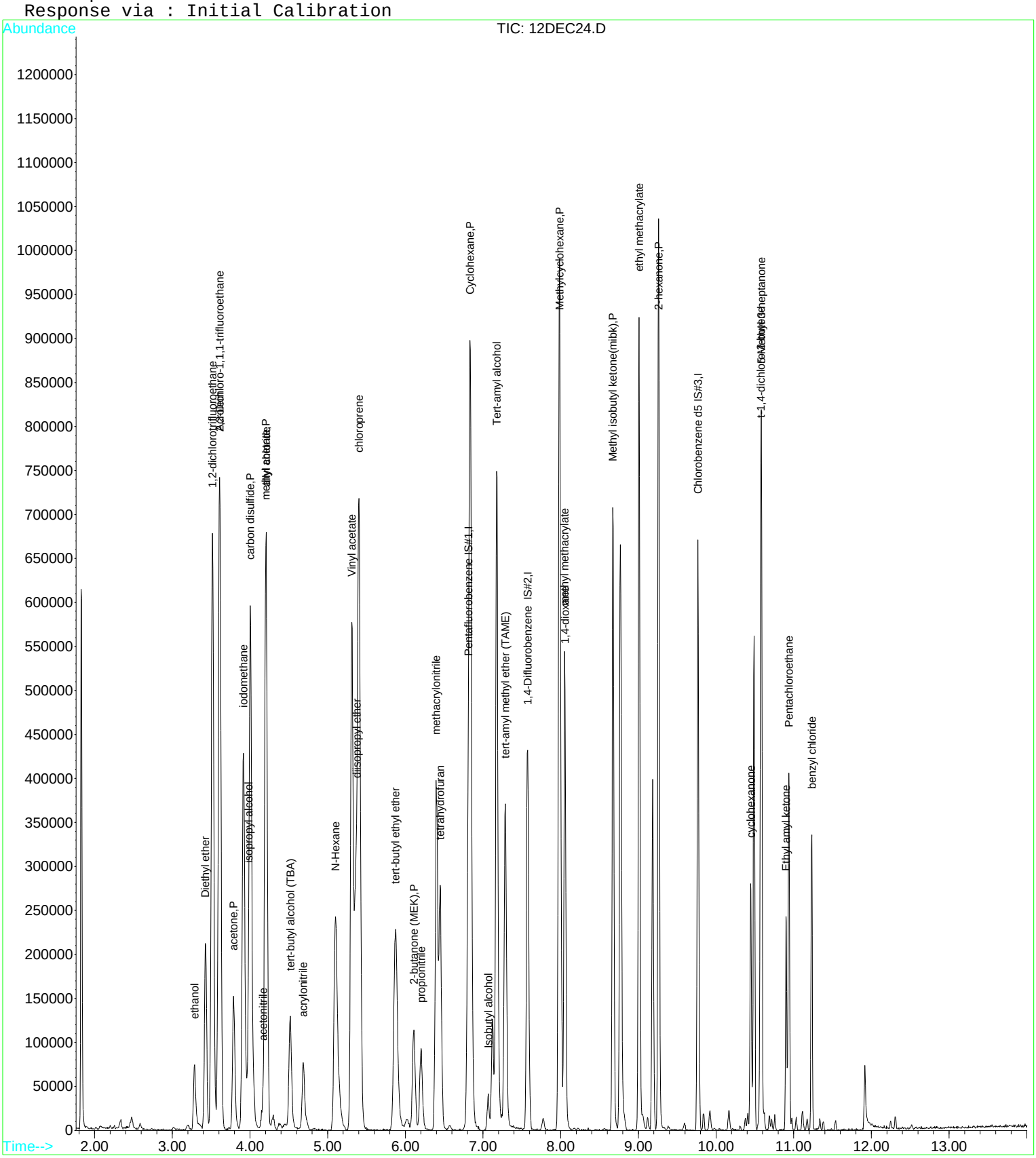
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	51538	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	76666	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	105865	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	89278	4446.79	ug/L	#	50
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	479269	25.21	ug/L		94
4) 1,2-dichlorotrifluoroethan	3.52	67	380155	25.24	ug/L		96
5) Diethyl ether	3.43	59	125798	28.18	ug/L		81
6) isopropyl alcohol	3.98	45	93699	896.23	ug/L	#	57
7) Acrolein	3.60	56	51943	214.14	ug/L	#	9
8) acetone	3.79	43	230343	316.99	ug/L		95
9) tert-butyl alcohol (TBA)	4.52	59	188389	865.62	ug/L		100
10) acetonitrile	4.16	41	38698m	190.78	ug/L		
11) methyl acetate	4.20	43	478572	283.83	ug/L		97
12) allyl chloride	4.21	41	469024	34.27	ug/L		97
13) iodomethane	3.92	142	616536	33.80	ug/L		96
14) acrylonitrile	4.69	53	75129	89.19	ug/L	#	73
15) carbon disulfide	4.00	76	1103461	31.87	ug/L		98
16) N-Hexane	5.10	57	215754	24.96	ug/L	#	54
17) diisopropyl ether	5.37	87	139782	16.24	ug/L		73
18) Vinyl acetate	5.31	43	1156256	174.42	ug/L		97
19) chloroprene	5.40	53	554093	31.53	ug/L		99
20) tert-butyl ethyl ether	5.87	59	342064	16.76	ug/L		97
21) 2-butanone (MEK)	6.11	43	175320	168.99	ug/L	#	80
22) propionitrile	6.20	54	130516	414.05	ug/L	#	79
23) Isobutyl alcohol	7.07	43	25434	435.98	ug/L	#	79
24) methacrylonitrile	6.40	67	234515	170.42	ug/L		76
25) Tert-amyl alcohol	7.18	59	422692	2772.19	ug/L		91
26) tetrahydrofuran	6.45	42	206637	340.33	ug/L		92
27) Cyclohexane	6.84	56	402231	24.56	ug/L	#	68
28) tert-amyl methyl ether (TA	7.29	73	287492	16.25	ug/L		94
30) methyl methacrylate	8.05	69	206736	86.12	ug/L		93
31) Methylcyclohexane	7.98	55	319034	26.01	ug/L		78
32) 1,4-dioxane	8.06	88	63051	2122.20	ug/L	#	77
33) Methyl isobutyl ketone(mib	8.67	43	392053	176.72	ug/L		93
34) ethyl methacrylate	9.01	69	473421	87.35	ug/L		94
35) 2-hexanone	9.26	43	528805	348.60	ug/L		93
37) 5-Methyl-3-heptanone	10.59	43	117738	54.85	ug/L	#	81
38) cyclohexanone	10.44	55	95300	426.73	ug/L		89
39) t-1,4-dichloro-2-butene	10.57	75	83332	78.20	ug/L		88
40) Ethyl amyl ketone	10.90	57	49765	25.33	ug/L	#	46
41) Pentachloroethane	10.94	167	50102	17.33	ug/L		86
42) benzyl chloride	11.23	91	202976	32.32	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC24.D Vial: 24
Acq On : 12 Dec 2021 4:04 pm Operator: MGC
Sample : 2125249-ICV2 Inst : MS-V5
Misc : 1;1L12075;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:32 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - ICB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC14.D Vial: 14
Acq On : 12 Dec 2021 12:01 pm Operator: MGC
Sample : 2125249-ICB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:14 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	49951	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	76001	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.76	119	99423	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	92319	9.79	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 97.90%			
33) Toluene d8 SMC#2	8.77	98	436780	10.36	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 103.60%			
51) Bromofluorobenzene SMC#3	10.49	95	145783	9.82	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 98.20%			

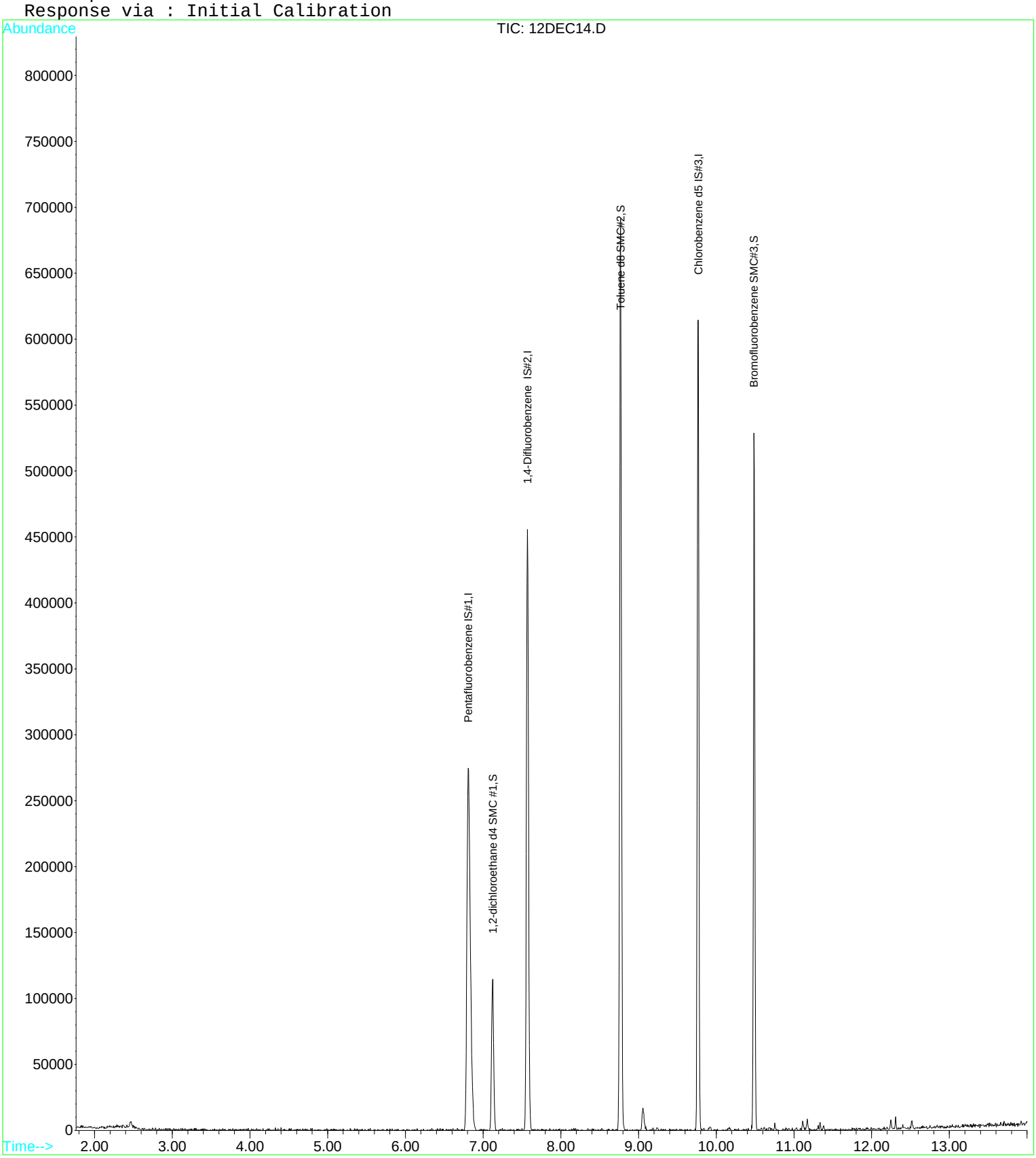
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC14.D Vial: 14
Acq On : 12 Dec 2021 12:01 pm Operator: MGC
Sample : 2125249-ICB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:14 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC26.D Vial: 26
Acq On : 12 Dec 2021 4:52 pm Operator: MGC
Sample : 2125249-ICB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:41 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	50620	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	76500	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	102448	10.00	ug/L	0.00

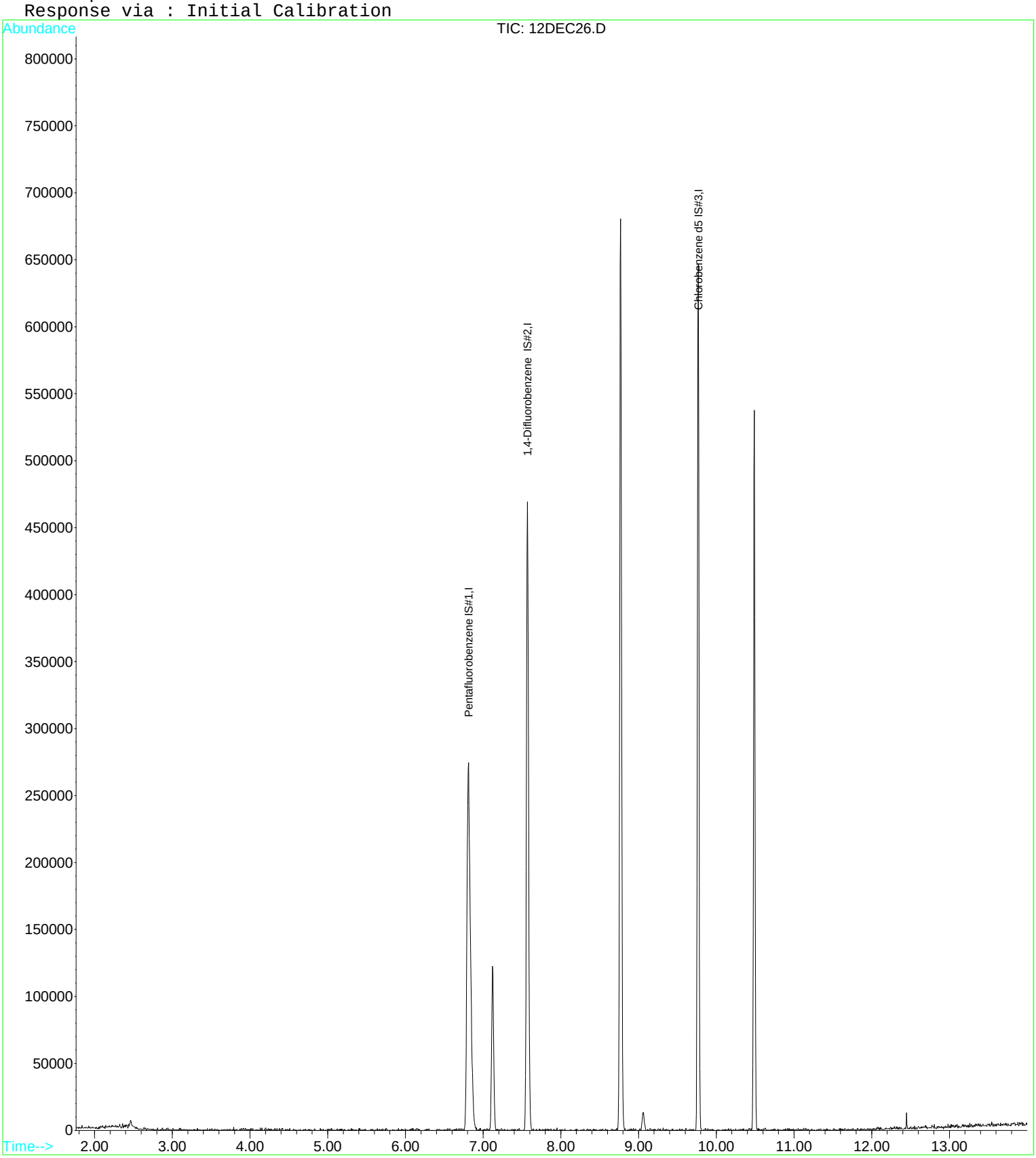
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC26.D Vial: 26
Acq On : 12 Dec 2021 4:52 pm Operator: MGC
Sample : 2125249-ICB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 7:41 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - CCV

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC02.D Vial: 2
Acq On : 23 Dec 2021 5:01 am Operator: MGC
Sample : 2125965-CCV1 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:14 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	45595	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	72213	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.76	119	102444	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	76973	8.95	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 89.50%			
33) Toluene d8 SMC#2	8.76	98	436440	10.90	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.00%			
51) Bromofluorobenzene SMC#3	10.49	95	141753	9.27	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 92.70%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	454968	23.37	ug/L	98
3) Chlorodifluoromethane	1.89	51	390181	26.49	ug/L	87
4) Chloromethane	2.07	50	214151	23.09	ug/L	98
5) Vinyl chloride	2.20	62	309687	25.56	ug/L	99
6) Bromomethane	2.60	94	132860	12.66	ug/L	98
7) Chloroethane	2.73	64	236467	28.65	ug/L	100
8) Dichlorofluoromethane	3.02	67	608626	25.80	ug/L	99
9) Trichlorofluoromethane	3.06	101	616773	22.71	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	3.75	101	343452	27.61	ug/L	98
11) 1,1-Dichloroethene	3.73	61	458361	26.58	ug/L	95
12) Methylene chloride	4.38	84	276884	28.43	ug/L	98
13) MTBE	4.72	73	371200	25.61	ug/L	95
14) T-1,2-dichloroethene	4.73	96	358089	28.33	ug/L	97
15) 1,1-Dichloroethane	5.30	63	542332	26.94	ug/L	100
16) 2,2-Dichloropropane	6.12	77	462735	24.83	ug/L	85
17) Cis-1,2-dichloroethene	6.12	96	359233	28.76	ug/L	96
18) Bromochloromethane	6.43	128	113917	28.52	ug/L	94
19) Chloroform	6.57	83	540782	24.31	ug/L	99
20) 1,1,1-Trichloroethane	6.76	97	522694	22.80	ug/L	87
21) 1,1-Dichloropropene	6.94	75	455069	26.83	ug/L	98
22) Carbon tetrachloride	6.93	119	356162	23.53	ug/L	99
24) 1,2-Dichloroethane	7.20	62	224495	21.68	ug/L	98
25) Benzene	7.15	78	1220450	27.86	ug/L	97
27) Trichloroethene	7.78	130	357946	26.48	ug/L	97
28) 1,2-Dichloropropane	8.01	63	244140	29.22	ug/L	88
29) Dibromomethane	8.08	93	101884	25.64	ug/L	97
30) Bromodichloromethane	8.22	83	287509	25.28	ug/L	100
31) 2-ceve	8.44	63	197510	91.21	ug/L	98
32) Cis-1,3-dichloropropene	8.56	75	332517	27.90	ug/L	98
34) Toluene	8.82	92	781398	26.34	ug/L	96
35) Trans-1,3-dichloropropene	8.98	75	230433	26.44	ug/L	97
36) 1,1,2-Trichloroethane	9.12	97	141468	26.84	ug/L	96
37) Tetrachloroethene (PCE)	9.18	166	378131	25.57	ug/L	96
38) 1,3-Dichloropropane	9.24	76	231571	26.54	ug/L	99
39) Dibromochloromethane	9.38	129	139189	23.33	ug/L	98
40) 1,2-Dibromoethane	9.47	107	122649	26.56	ug/L	99
42) Chlorobenzene	9.78	112	742226	23.12	ug/L	93
43) 1,1,1,2-Tetrachloroethane	9.84	131	220627	22.05	ug/L	99
44) Ethylbenzene	9.84	106	451298	23.50	ug/L	83
45) P+m-Xylene	9.92	106	1047577	47.62	ug/L	86
46) O-Xylene	10.16	106	514664	24.81	ug/L	95
47) Styrene	10.17	104	758031	24.82	ug/L	93
48) Bromoform	10.30	173	59913	20.09	ug/L	96
49) Isopropylbenzene	10.37	105	1363153	22.37	ug/L	93
50) 1,1,2,2-Tetrachloroethane	10.55	83	126505	25.33	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC02.D Vial: 2
Acq On : 23 Dec 2021 5:01 am Operator: MGC
Sample : 2125965-CCV1 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:14 2021 Quant Results File: 82605C.RES

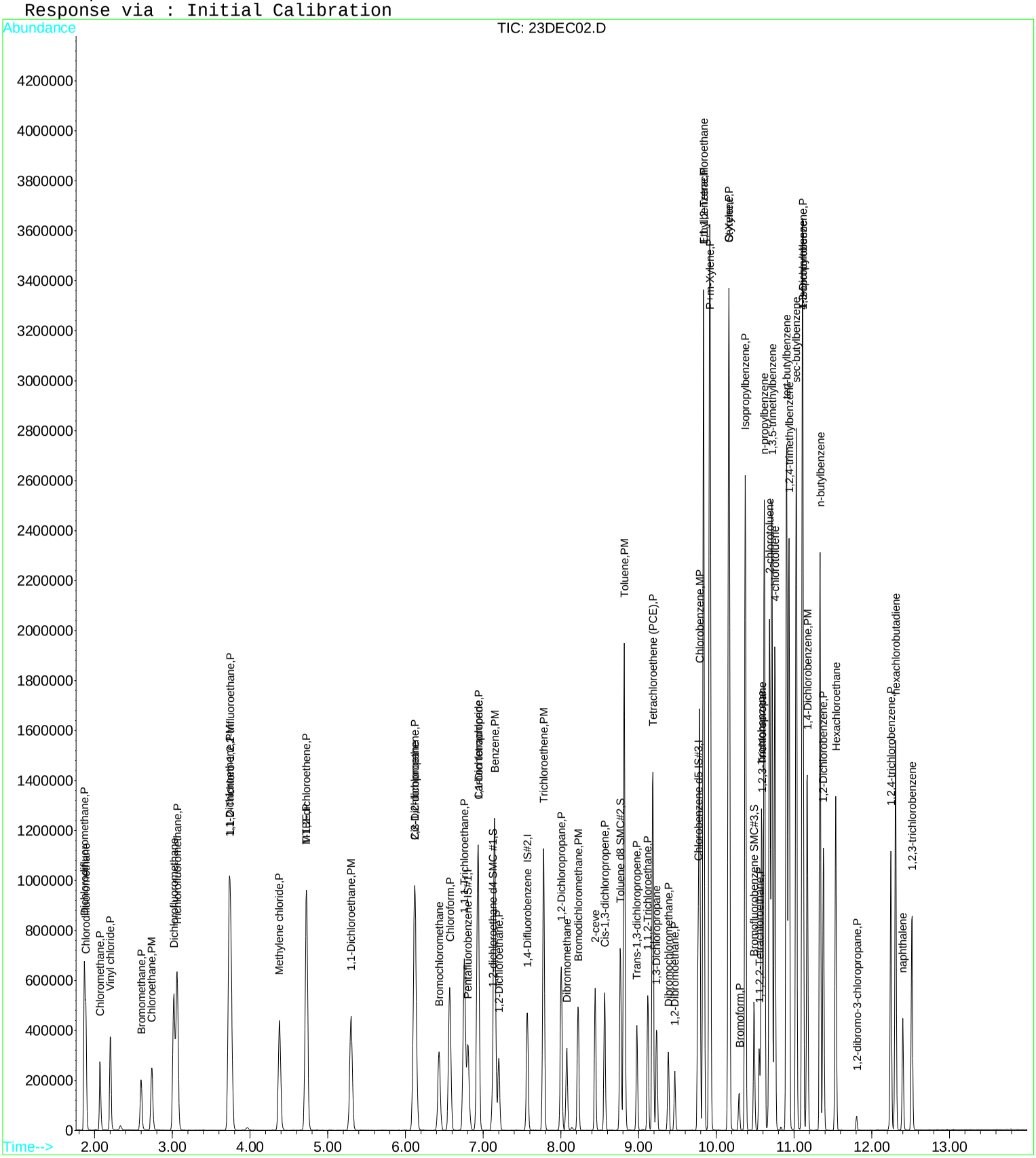
Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
52)	1,2,3-Trichloropropane	10.59	110	35075	22.54	ug/L		97
53)	n-propylbenzene	10.62	91	1561494	22.83	ug/L		90
54)	bromobenzene	10.58	156	300015	22.08	ug/L		98
55)	1,3,5-trimethylbenzene	10.72	105	1111415	23.63	ug/L		97
56)	2-chlorotoluene	10.69	91	1078026	22.10	ug/L		98
57)	4-chlorotoluene	10.75	91	940573	21.85	ug/L		98
58)	tert-butylbenzene	10.91	119	1199864	23.16	ug/L		90
59)	1,2,4-trimethylbenzene	10.94	105	1055577	24.53	ug/L		96
60)	sec-butylbenzene	11.03	105	1468011	23.57	ug/L		91
61)	4-isopropyltoluene	11.11	119	1175843	23.84	ug/L		91
62)	1,3-Dichlorobenzene	11.12	146	558095	20.65	ug/L		94
63)	1,4-Dichlorobenzene	11.17	146	509818	20.10	ug/L		95
64)	n-butylbenzene	11.34	91	937496	22.54	ug/L		95
65)	1,2-Dichlorobenzene	11.38	146	386566	17.52	ug/L		97
66)	Hexachloroethane	11.54	117	121907	19.21	ug/L	#	81
67)	1,2-dibromo-3-chloropropan	11.81	75	12761	16.25	ug/L		98
68)	1,2,4-trichlorobenzene	12.25	180	298187	26.10	ug/L		100
69)	hexachlorobutadiene	12.31	225	265179	22.40	ug/L		97
70)	naphthalene	12.40	128	287634	25.50	ug/L		100
71)	1,2,3-trichlorobenzene	12.52	180	243716	24.20	ug/L		98

(#) = qualifier out of range (m) = manual integration

Data File : D:\DATA\DEC2021\DEC23\23DEC02.D Vial: 2
Acq On : 23 Dec 2021 5:01 am Operator: MGC
Sample : 2125965-CCV1 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:14 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC03.D Vial: 3
Acq On : 23 Dec 2021 5:26 am Operator: MGC
Sample : 2125965-CCV2 Inst : MS-V5
Misc : 1 ;1L13001;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:16 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

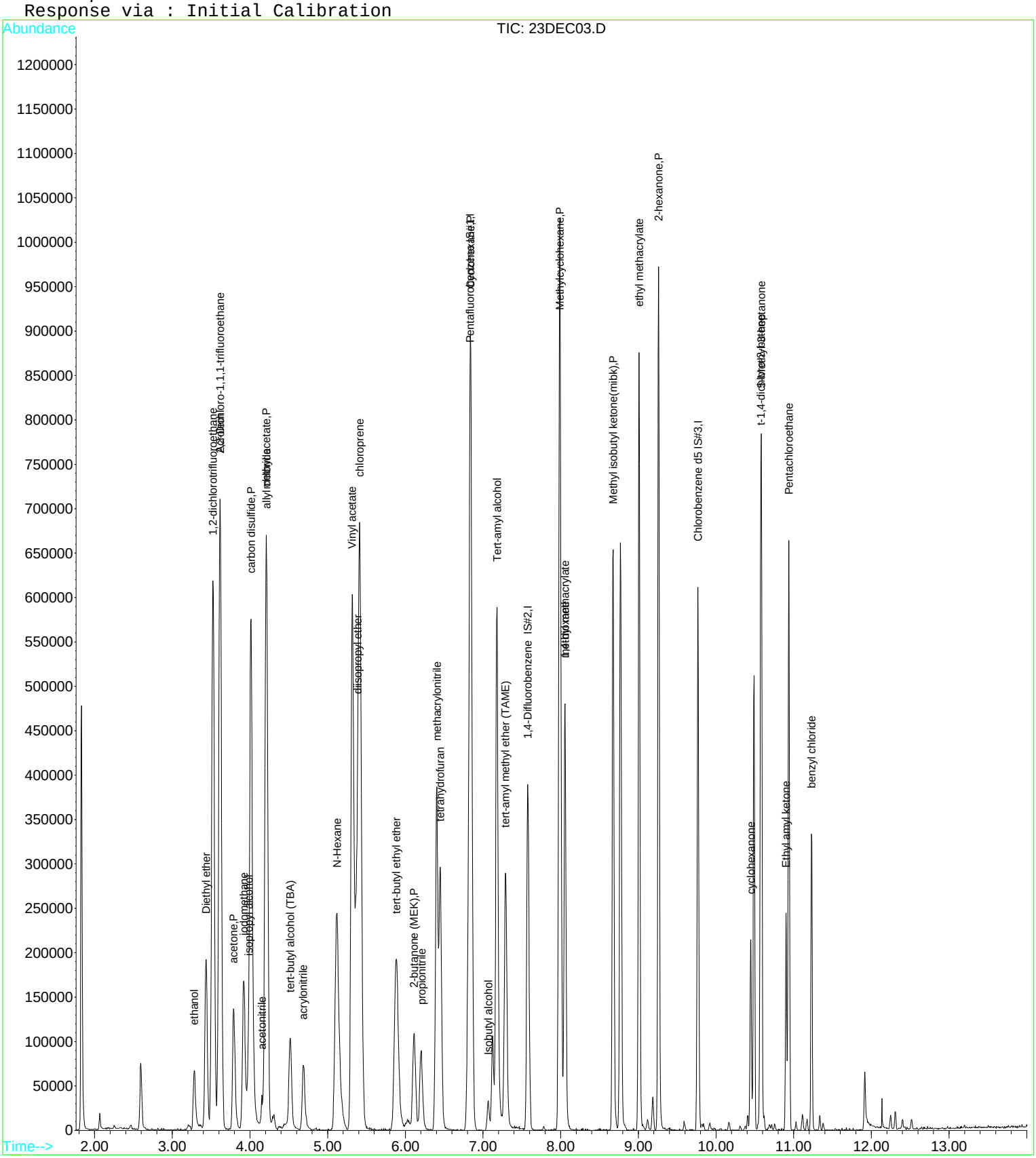
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	44907	10.00	ug/L		0.02
29) 1,4-Difluorobenzene IS#2	7.58	63	69440	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	99045	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.29	45	86183	4926.49	ug/L	#	42
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	483387	29.19	ug/L		91
4) 1,2-dichlorotrifluoroethan	3.52	67	394411	30.06	ug/L		90
5) Diethyl ether	3.44	59	127316	32.74	ug/L		79
6) isopropyl alcohol	3.98	45	86713	951.89	ug/L	#	56
7) Acrolein	3.61	56	80406	373.90	ug/L	#	21
8) acetone	3.79	43	216703	342.25	ug/L		87
9) tert-butyl alcohol (TBA)	4.51	59	156965	827.73	ug/L		100
10) acetonitrile	4.16	41	41308	233.71	ug/L	#	71
11) methyl acetate	4.20	43	484123	329.52	ug/L		100
12) allyl chloride	4.22	41	509950	42.76	ug/L		99
13) iodomethane	3.92	142	273869	17.23	ug/L		95
14) acrylonitrile	4.69	53	79687	108.57	ug/L	#	75
15) carbon disulfide	4.01	76	1142510	37.87	ug/L		99
16) N-Hexane	5.12	57	246375	32.71	ug/L	#	59
17) diisopropyl ether	5.38	87	139511	18.61	ug/L		79
18) Vinyl acetate	5.32	43	1301391	225.30	ug/L		97
19) chloroprene	5.41	53	562916	36.76	ug/L		90
20) tert-butyl ethyl ether	5.89	59	310645	17.47	ug/L		97
21) 2-butanone (MEK)	6.11	43	174816	193.39	ug/L	#	82
22) propionitrile	6.20	54	137409	500.29	ug/L	#	84
23) Isobutyl alcohol	7.07	43	23772	464.13	ug/L	#	80
24) methacrylonitrile	6.41	67	233793	194.98	ug/L		77
25) Tert-amyl alcohol	7.18	59	359735	2707.66	ug/L		92
26) tetrahydrofuran	6.45	42	226533	428.19	ug/L		90
27) Cyclohexane	6.84	56	431651	30.25	ug/L	#	67
28) tert-amyl methyl ether (TA	7.29	73	272247	17.66	ug/L		92
30) methyl methacrylate	8.06	69	202244	93.01	ug/L		97
31) Methylcyclohexane	7.99	55	331761	29.84	ug/L		79
32) 1,4-dioxane	8.06	88	53162	1975.56	ug/L		80
33) Methyl isobutyl ketone(mib	8.67	43	380469	189.34	ug/L		93
34) ethyl methacrylate	9.01	69	456440	92.98	ug/L		95
35) 2-hexanone	9.26	43	502605	365.81	ug/L		90
37) 5-Methyl-3-heptanone	10.58	43	121411	60.46	ug/L	#	86
38) cyclohexanone	10.44	55	74432	356.23	ug/L		92
39) t-1,4-dichloro-2-butene	10.57	75	84208	84.29	ug/L		81
40) Ethyl amyl ketone	10.90	57	52450	28.53	ug/L	#	44
41) Pentachloroethane	10.94	167	82379	30.46	ug/L	#	81
42) benzyl chloride	11.23	91	207272	34.95	ug/L		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC03.D Vial: 3
Acq On : 23 Dec 2021 5:26 am Operator: MGC
Sample : 2125965-CCV2 Inst : MS-V5
Misc : 1 ;1L13001;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:16 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC31.D Vial: 31
Acq On : 23 Dec 2021 4:47 pm Operator: MGC
Sample : 2125965-CCV3 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:59 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.81	137	42429	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.58	63	69075	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	93109	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	73738	9.21	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 92.10%			
33) Toluene d8 SMC#2	8.77	98	418971	10.94	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 109.40%			
51) Bromofluorobenzene SMC#3	10.49	95	121608	8.75	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 87.50%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	425692	23.50	ug/L	97
3) Chlorodifluoromethane	1.89	51	356335	26.00	ug/L	89
4) Chloromethane	2.07	50	215232	24.93	ug/L	99
5) Vinyl chloride	2.20	62	281276	24.94	ug/L	100
6) Bromomethane	2.60	94	199377	20.42	ug/L	97
7) Chloroethane	2.74	64	223657	29.12	ug/L	100
8) Dichlorofluoromethane	3.02	67	555134	25.29	ug/L	99
9) Trichlorofluoromethane	3.06	101	569774	22.55	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	302079	26.10	ug/L	98
11) 1,1-Dichloroethene	3.74	61	416829	25.98	ug/L	95
12) Methylene chloride	4.38	84	259222	28.60	ug/L	99
13) MTBE	4.73	73	350331	25.98	ug/L	96
14) T-1,2-dichloroethene	4.73	96	321688	27.35	ug/L	97
15) 1,1-Dichloroethane	5.30	63	489568	26.13	ug/L	100
16) 2,2-Dichloropropane	6.13	77	394625	22.76	ug/L	80
17) Cis-1,2-dichloroethene	6.12	96	320487	27.57	ug/L	96
18) Bromochloromethane	6.44	128	105191	28.30	ug/L	96
19) Chloroform	6.57	83	498336	24.08	ug/L	98
20) 1,1,1-Trichloroethane	6.76	97	488256	22.89	ug/L	94
21) 1,1-Dichloropropene	6.94	75	408094	25.85	ug/L	98
22) Carbon tetrachloride	6.93	119	345991	24.56	ug/L	99
24) 1,2-Dichloroethane	7.20	62	218064	22.63	ug/L	99
25) Benzene	7.15	78	1108397	27.19	ug/L	99
27) Trichloroethene	7.78	130	329138	25.46	ug/L	98
28) 1,2-Dichloropropane	8.01	63	219294	27.44	ug/L	89
29) Dibromomethane	8.08	93	94875	24.96	ug/L	99
30) Bromodichloromethane	8.22	83	267767	24.61	ug/L	100
31) 2-ceve	8.44	63	172621	83.33	ug/L	98
32) Cis-1,3-dichloropropene	8.57	75	304421	26.70	ug/L	99
34) Toluene	8.82	92	725904	25.58	ug/L	94
35) Trans-1,3-dichloropropene	8.98	75	213704	25.64	ug/L	98
36) 1,1,2-Trichloroethane	9.12	97	129314	25.65	ug/L	96
37) Tetrachloroethene (PCE)	9.19	166	345105	24.40	ug/L	97
38) 1,3-Dichloropropane	9.23	76	216930	25.99	ug/L	99
39) Dibromochloromethane	9.39	129	135023	23.61	ug/L	99
40) 1,2-Dibromoethane	9.47	107	113892	25.79	ug/L	98
42) Chlorobenzene	9.79	112	697758	23.91	ug/L	94
43) 1,1,1,2-Tetrachloroethane	9.84	131	211412	23.24	ug/L	97
44) Ethylbenzene	9.84	106	430432	24.66	ug/L	83
45) P+m-Xylene	9.92	106	997435	49.88	ug/L	85
46) O-Xylene	10.16	106	477319	25.32	ug/L	93
47) Styrene	10.17	104	719938	25.94	ug/L	93
48) Bromoform	10.29	173	61078	22.09	ug/L	97
49) Isopropylbenzene	10.38	105	1160986	20.96	ug/L	92
50) 1,1,2,2-Tetrachloroethane	10.55	83	93869	20.68	ug/L	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC31.D Vial: 31
Acq On : 23 Dec 2021 4:47 pm Operator: MGC
Sample : 2125965-CCV3 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:59 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

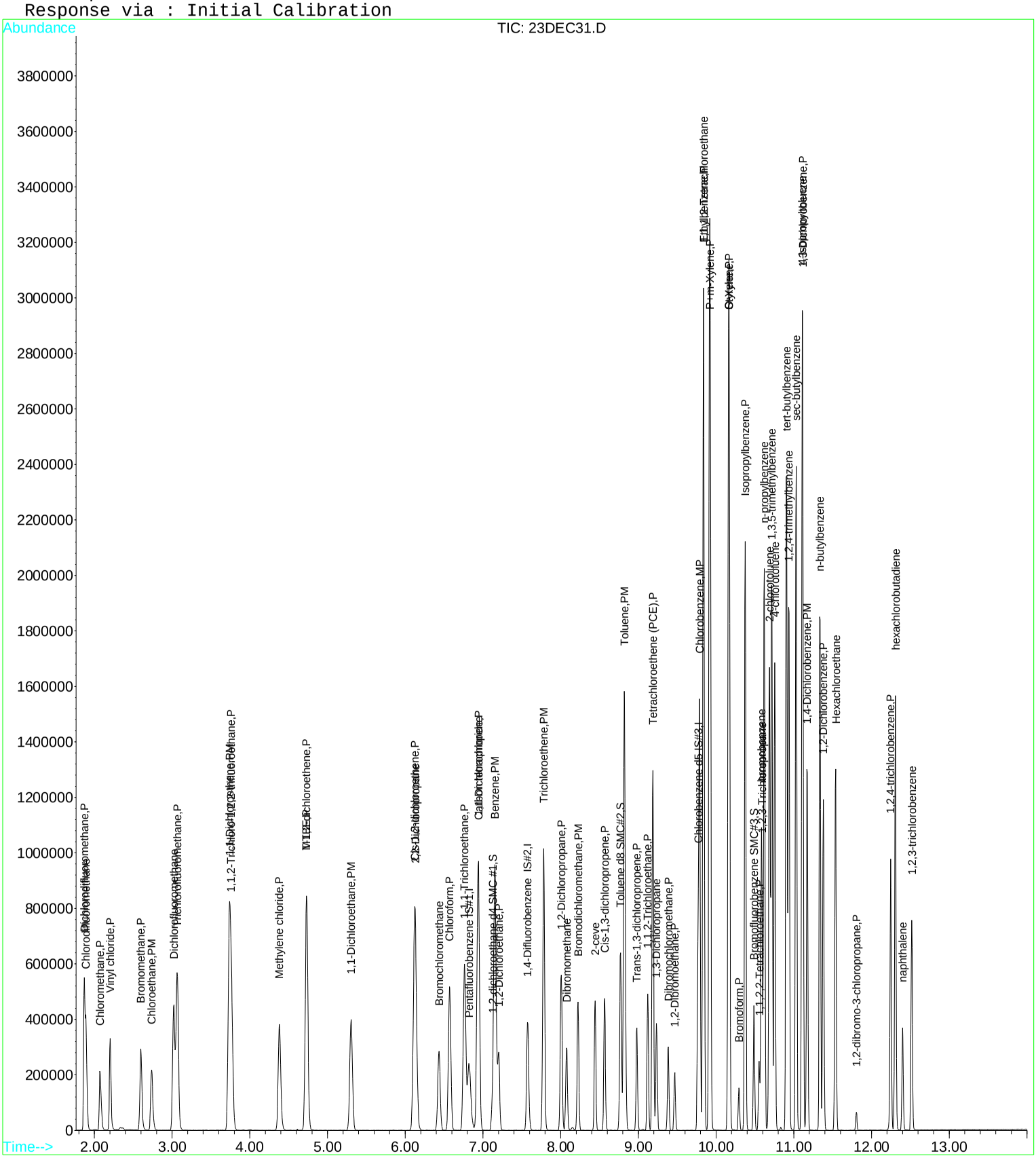
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52) 1,2,3-Trichloropropane	10.60	110	29683	20.99	ug/L	98
53) n-propylbenzene	10.62	91	1303733	20.97	ug/L	89
54) bromobenzene	10.59	156	254064	20.57	ug/L	98
55) 1,3,5-trimethylbenzene	10.72	105	904284	21.16	ug/L	95
56) 2-chlorotoluene	10.69	91	899163	20.29	ug/L	96
57) 4-chlorotoluene	10.75	91	812064	20.76	ug/L	96
58) tert-butylbenzene	10.90	119	1051828	22.34	ug/L	91
59) 1,2,4-trimethylbenzene	10.94	105	873091	22.32	ug/L	94
60) sec-butylbenzene	11.03	105	1242461	21.95	ug/L	91
61) 4-isopropyltoluene	11.11	119	956259	21.34	ug/L	89
62) 1,3-Dichlorobenzene	11.12	146	477095	19.43	ug/L	95
63) 1,4-Dichlorobenzene	11.17	146	466829	20.25	ug/L	95
64) n-butylbenzene	11.33	91	816185	21.59	ug/L	94
65) 1,2-Dichlorobenzene	11.38	146	415957	20.74	ug/L	96
66) Hexachloroethane	11.54	117	131046	21.98	ug/L	88
67) 1,2-dibromo-3-chloropropan	11.81	75	14539	20.21	ug/L	95
68) 1,2,4-trichlorobenzene	12.25	180	252915	24.36	ug/L	98
69) hexachlorobutadiene	12.31	225	251113	23.34	ug/L	98
70) naphthalene	12.40	128	239774	23.72	ug/L	100
71) 1,2,3-trichlorobenzene	12.52	180	209008	22.96	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC31.D Vial: 31
Acq On : 23 Dec 2021 4:47 pm Operator: MGC
Sample : 2125965-CCV3 Inst : MS-V5
Misc : 1 ;1L12076;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:59 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC32.D Vial: 32
Acq On : 23 Dec 2021 5:12 pm Operator: MGC
Sample : 2125965-CCV4 Inst : MS-V5
Misc : 1 ;1L13001;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:00 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

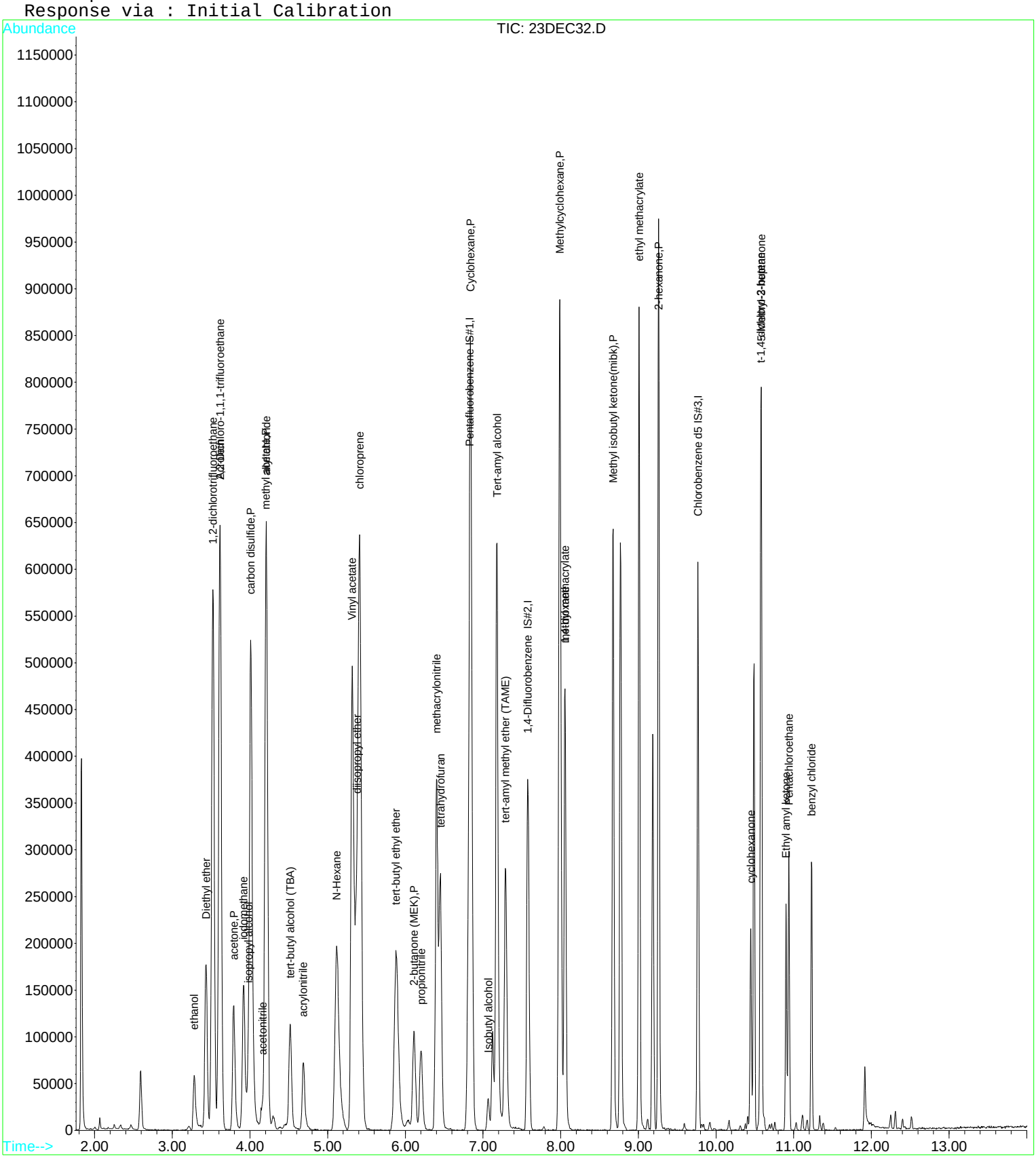
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	44579	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	70059	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	96547	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	75641	4355.69	ug/L	#	47
3) 2,2-Dichloro-1,1,1-trifluo	3.61	83	438805	26.69	ug/L		93
4) 1,2-dichlorotrifluoroethan	3.52	67	363031	27.87	ug/L		91
5) Diethyl ether	3.44	59	120548	31.22	ug/L		79
6) isopropyl alcohol	3.97	45	89291	987.40	ug/L	#	46
7) Acrolein	3.61	56	73609	345.46	ug/L	#	22
8) acetone	3.79	43	209209	332.85	ug/L		87
9) tert-butyl alcohol (TBA)	4.52	59	164998	876.49	ug/L		100
10) acetonitrile	4.16	41	41159	234.59	ug/L	#	54
11) methyl acetate	4.20	43	466258	319.70	ug/L		99
12) allyl chloride	4.21	41	463508	39.16	ug/L		100
13) iodomethane	3.92	142	244508	15.50	ug/L		98
14) acrylonitrile	4.69	53	75640	103.81	ug/L	#	77
15) carbon disulfide	4.01	76	1041775	34.78	ug/L		100
16) N-Hexane	5.12	57	200878	26.87	ug/L	#	58
17) diisopropyl ether	5.37	87	133480	17.93	ug/L		77
18) Vinyl acetate	5.32	43	1078310	188.05	ug/L		98
19) chloroprene	5.41	53	521149	34.28	ug/L		90
20) tert-butyl ethyl ether	5.88	59	303812	17.21	ug/L		95
21) 2-butanone (MEK)	6.11	43	165002	183.87	ug/L	#	78
22) propionitrile	6.20	54	134579	493.59	ug/L	#	87
23) Isobutyl alcohol	7.07	43	25899	504.06	ug/L	#	79
24) methacrylonitrile	6.40	67	225571	189.51	ug/L		76
25) Tert-amyl alcohol	7.18	59	382964	2903.71	ug/L		92
26) tetrahydrofuran	6.45	42	220684	420.20	ug/L		91
27) Cyclohexane	6.84	56	390585	27.58	ug/L	#	68
28) tert-amyl methyl ether (TA	7.29	73	265865	17.38	ug/L		92
30) methyl methacrylate	8.05	69	201113	91.68	ug/L		98
31) Methylcyclohexane	7.99	55	297737	26.56	ug/L		79
32) 1,4-dioxane	8.06	88	56766	2090.85	ug/L		79
33) Methyl isobutyl ketone(mib	8.67	43	375192	185.07	ug/L		92
34) ethyl methacrylate	9.01	69	445904	90.03	ug/L		95
35) 2-hexanone	9.26	43	491892	354.85	ug/L		91
37) 5-Methyl-3-heptanone	10.58	43	118121	60.34	ug/L	#	84
38) cyclohexanone	10.45	55	75285	369.64	ug/L		90
39) t-1,4-dichloro-2-butene	10.57	75	84175	86.38	ug/L		79
40) Ethyl amyl ketone	10.90	57	53565	29.89	ug/L	#	43
41) Pentachloroethane	10.94	167	36954	14.02	ug/L	#	83
42) benzyl chloride	11.23	91	175405	30.79	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC32.D Vial: 32
Acq On : 23 Dec 2021 5:12 pm Operator: MGC
Sample : 2125965-CCV4 Inst : MS-V5
Misc : 1 ;1L13001;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:00 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - CCB

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC04.D Vial: 4
Acq On : 23 Dec 2021 5:50 am Operator: MGC
Sample : 2125965-CCB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:17 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	46570	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	74047	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.76	119	103315	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	79767	9.08	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 90.80%			
33) Toluene d8 SMC#2	8.76	98	444655	10.83	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 108.30%			
51) Bromofluorobenzene SMC#3	10.49	95	138612	8.98	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.80%			

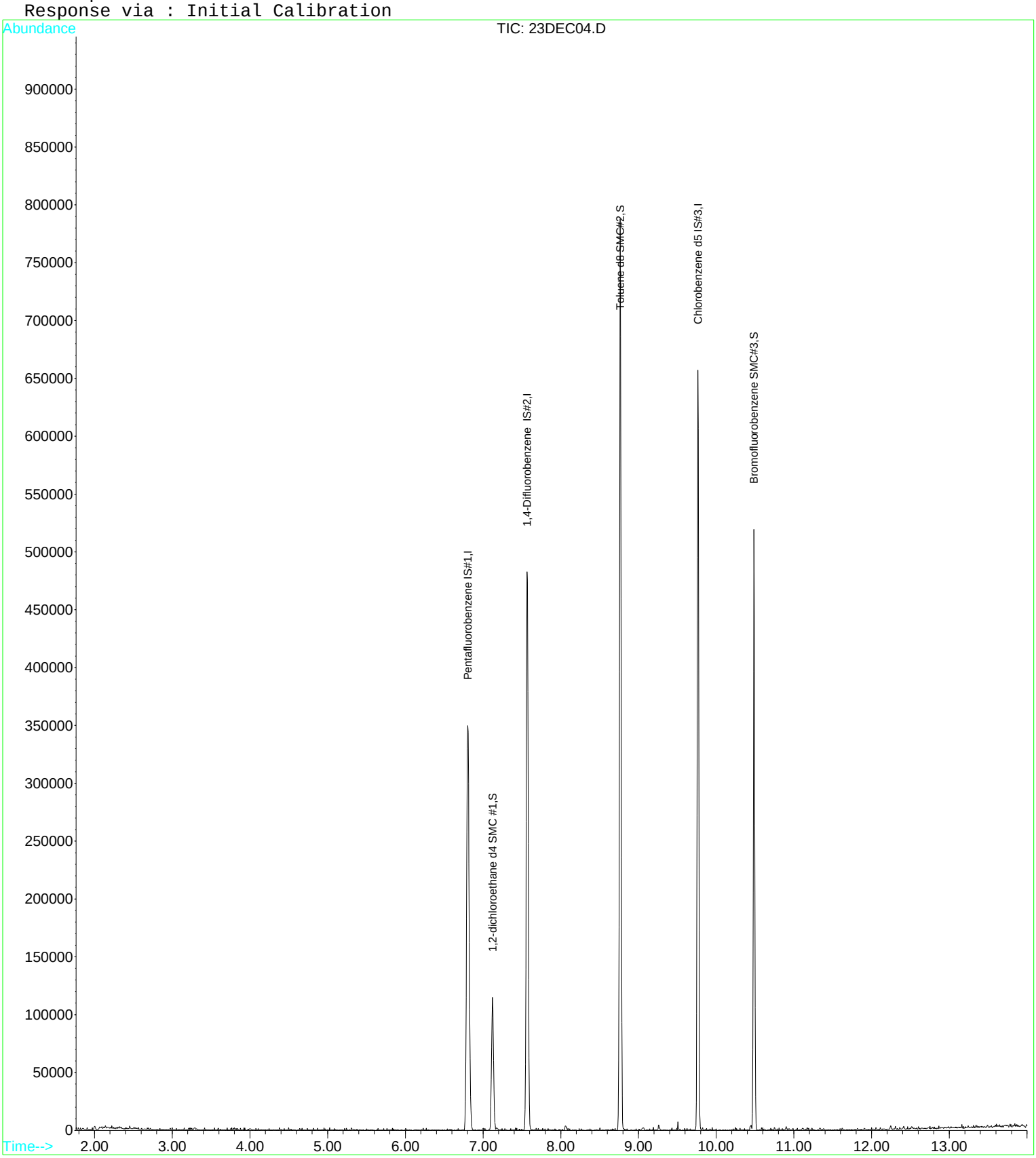
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC04.D Vial: 4
Acq On : 23 Dec 2021 5:50 am Operator: MGC
Sample : 2125965-CCB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:17 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC04.D Vial: 4
Acq On : 23 Dec 2021 5:50 am Operator: MGC
Sample : 2125965-CCB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:17 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	46570	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	74047	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.76	119	103315	10.00	ug/L	0.00

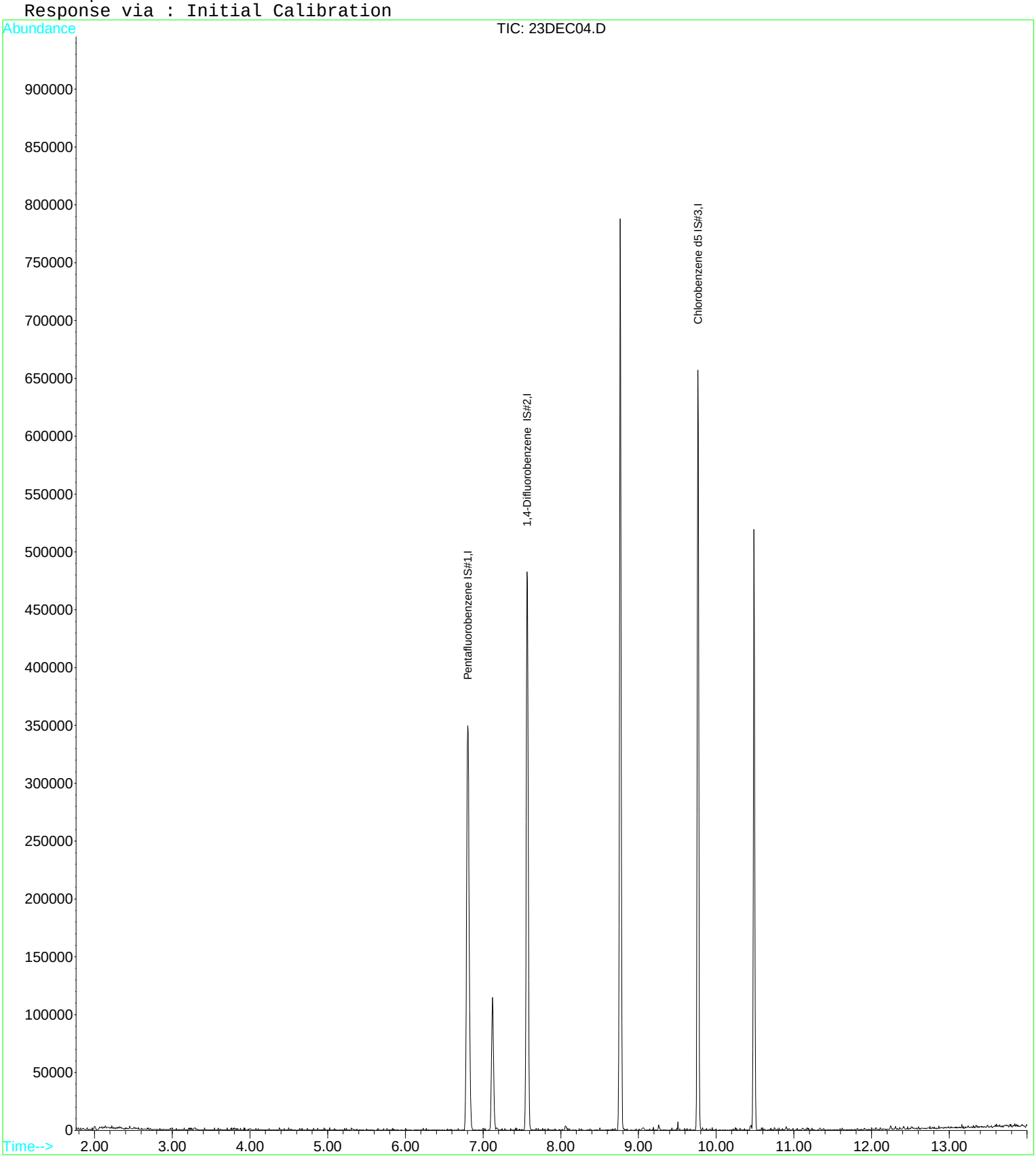
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC04.D Vial: 4
Acq On : 23 Dec 2021 5:50 am Operator: MGC
Sample : 2125965-CCB1 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:17 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC33.D Vial: 33
Acq On : 23 Dec 2021 5:36 pm Operator: MGC
Sample : 2125965-CCB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:02 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45709	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.58	63	70526	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	97196	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	76436	8.86	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.60%			
33) Toluene d8 SMC#2	8.77	98	420553	10.75	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 107.50%			
51) Bromofluorobenzene SMC#3	10.49	95	107770	7.43	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 74.30%#			

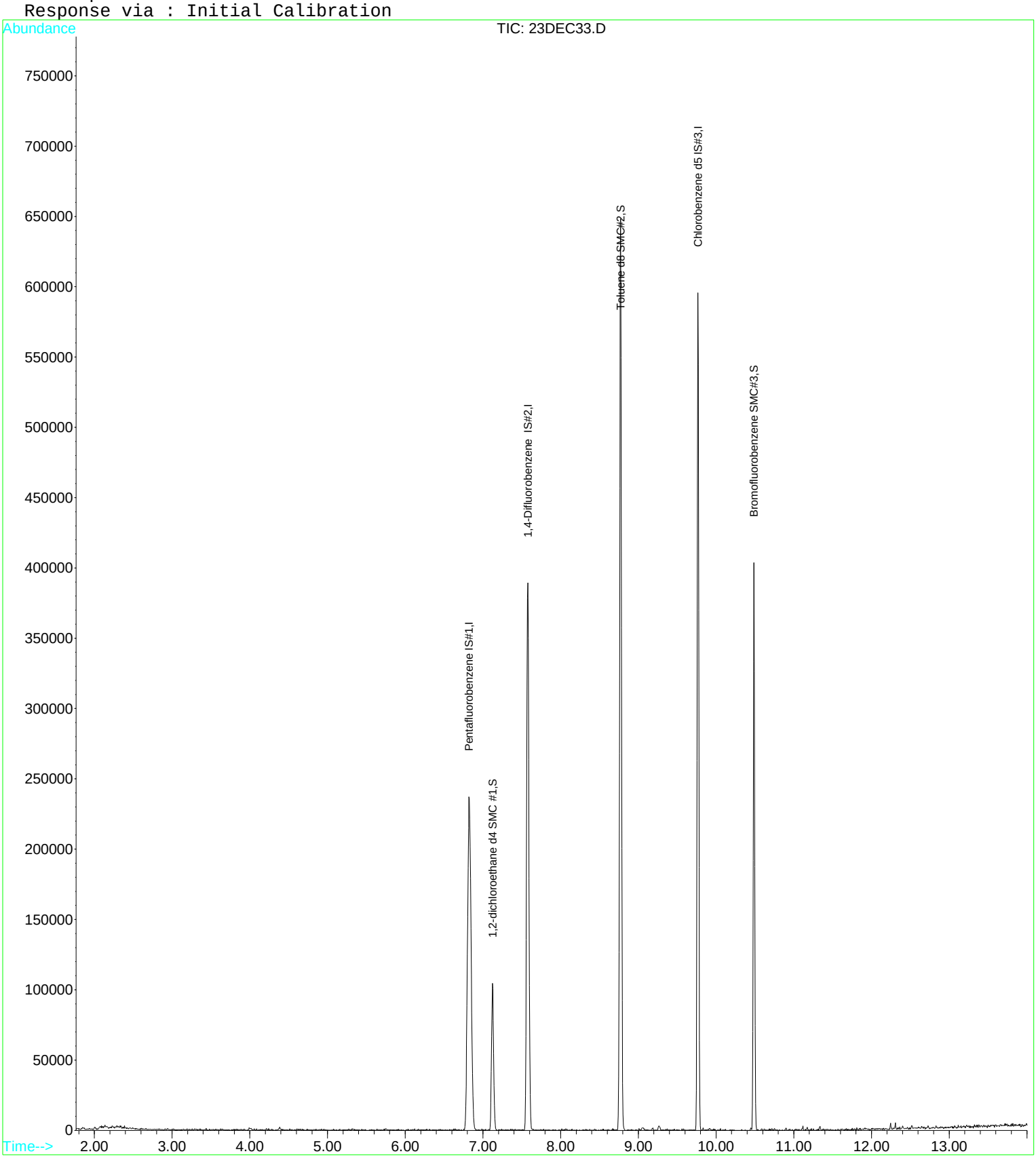
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC33.D Vial: 33
Acq On : 23 Dec 2021 5:36 pm Operator: MGC
Sample : 2125965-CCB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:02 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC33.D Vial: 33
Acq On : 23 Dec 2021 5:36 pm Operator: MGC
Sample : 2125965-CCB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:02 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	45709	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	70526	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	97196	10.00	ug/L	0.00

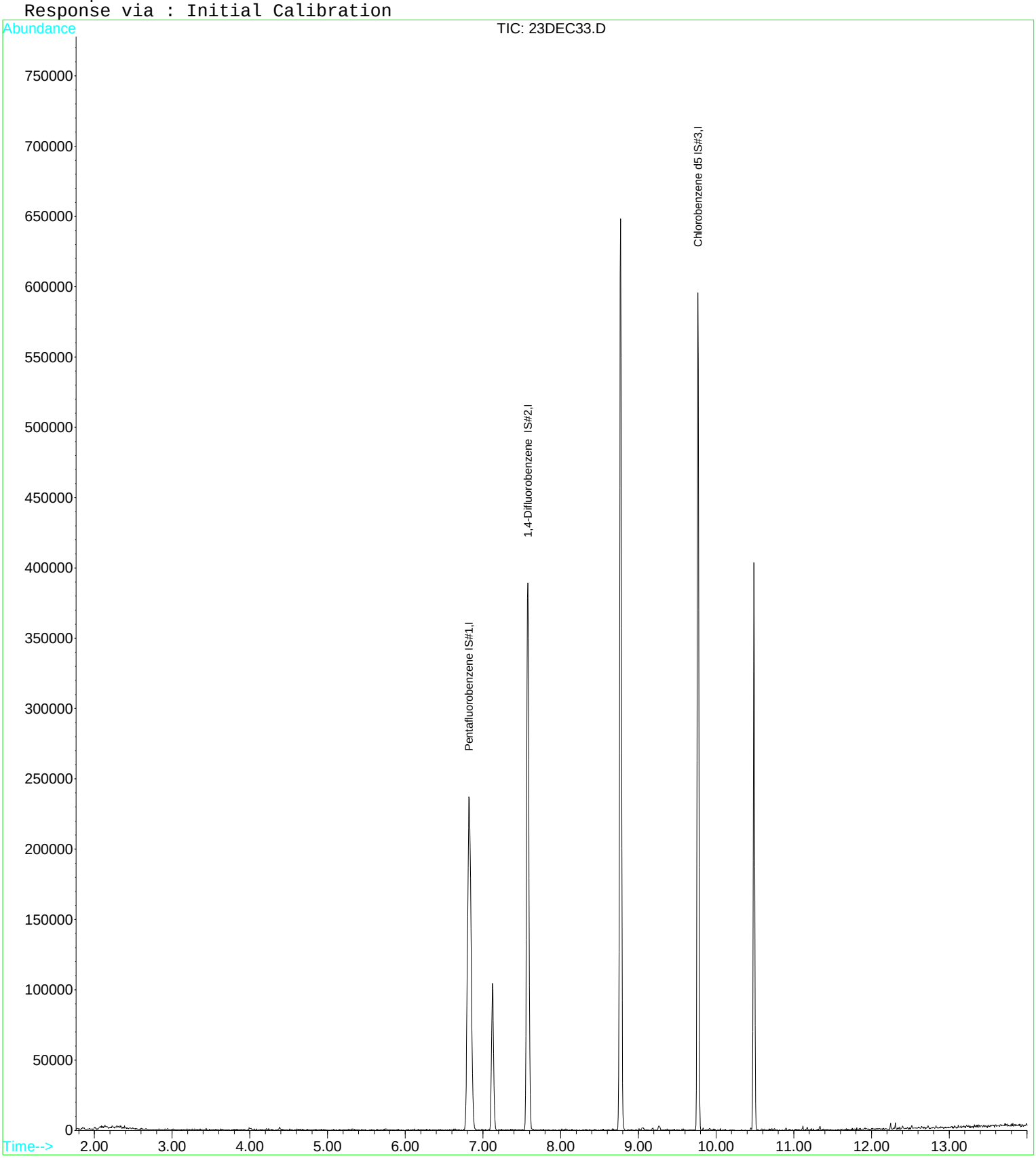
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC33.D Vial: 33
Acq On : 23 Dec 2021 5:36 pm Operator: MGC
Sample : 2125965-CCB2 Inst : MS-V5
Misc : 1;1L01015;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 6:02 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - Tune

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC01.D Vial: 1
Acq On : 23 Dec 2021 4:36 am Operator: MGC
Sample : 2125965-TUN1 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:13 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

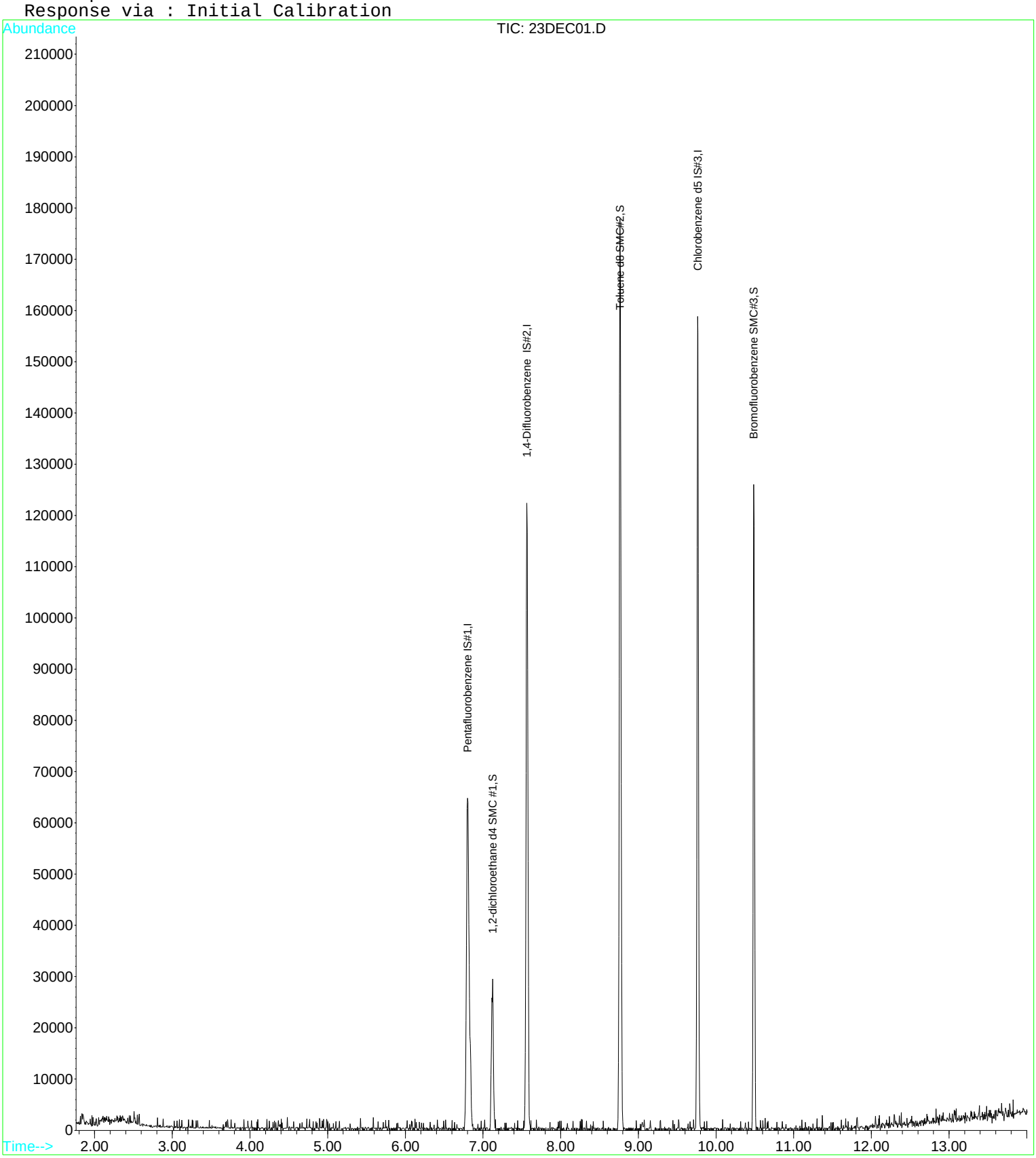
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	9788	10.00	ug/L	-0.01
26) 1,4-Difluorobenzene IS#2	7.56	63	18456	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	26200	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	20410	11.05	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 110.50%			
33) Toluene d8 SMC#2	8.76	98	109273	10.67	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.70%			
51) Bromofluorobenzene SMC#3	10.49	95	35327	9.03	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 90.30%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC01.D Vial: 1
Acq On : 23 Dec 2021 4:36 am Operator: MGC
Sample : 2125965-TUN1 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:13 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC30.D Vial: 30
Acq On : 23 Dec 2021 4:23 pm Operator: MGC
Sample : 2125965-TUN2 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:58 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.80	137	10537	10.00	ug/L	0.00
26) 1,4-Difluorobenzene IS#2	7.57	63	20029	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	28385	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	23761	11.95	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 119.50%			
33) Toluene d8 SMC#2	8.77	98	117032	10.53	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 105.30%			
51) Bromofluorobenzene SMC#3	10.49	95	37792	8.92	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 89.20%			

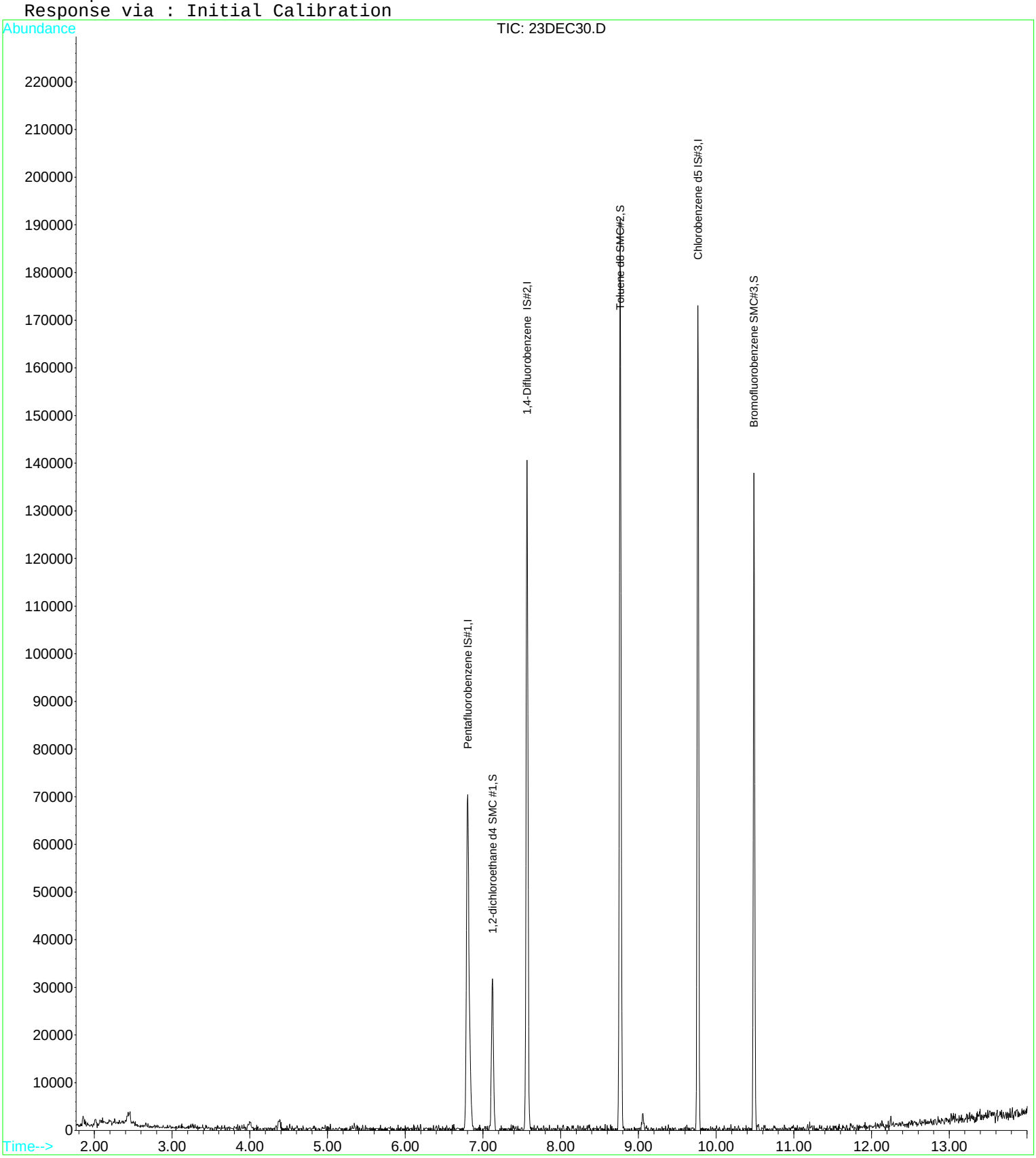
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC30.D Vial: 30
Acq On : 23 Dec 2021 4:23 pm Operator: MGC
Sample : 2125965-TUN2 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:58 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021C\DEC12\12DEC02.D Vial: 2
Acq On : 12 Dec 2021 6:43 am Operator: MGC
Sample : 2125249-TUN1 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:52 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.79	137	10514	10.00	ug/L	-0.01
26) 1,4-Difluorobenzene IS#2	7.56	63	18885	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	26202	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	25618	14.82	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 148.20%#			
33) Toluene d8 SMC#2	8.76	98	109155	9.66	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.60%			
51) Bromofluorobenzene SMC#3	10.49	95	36662	10.28	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 102.80%			

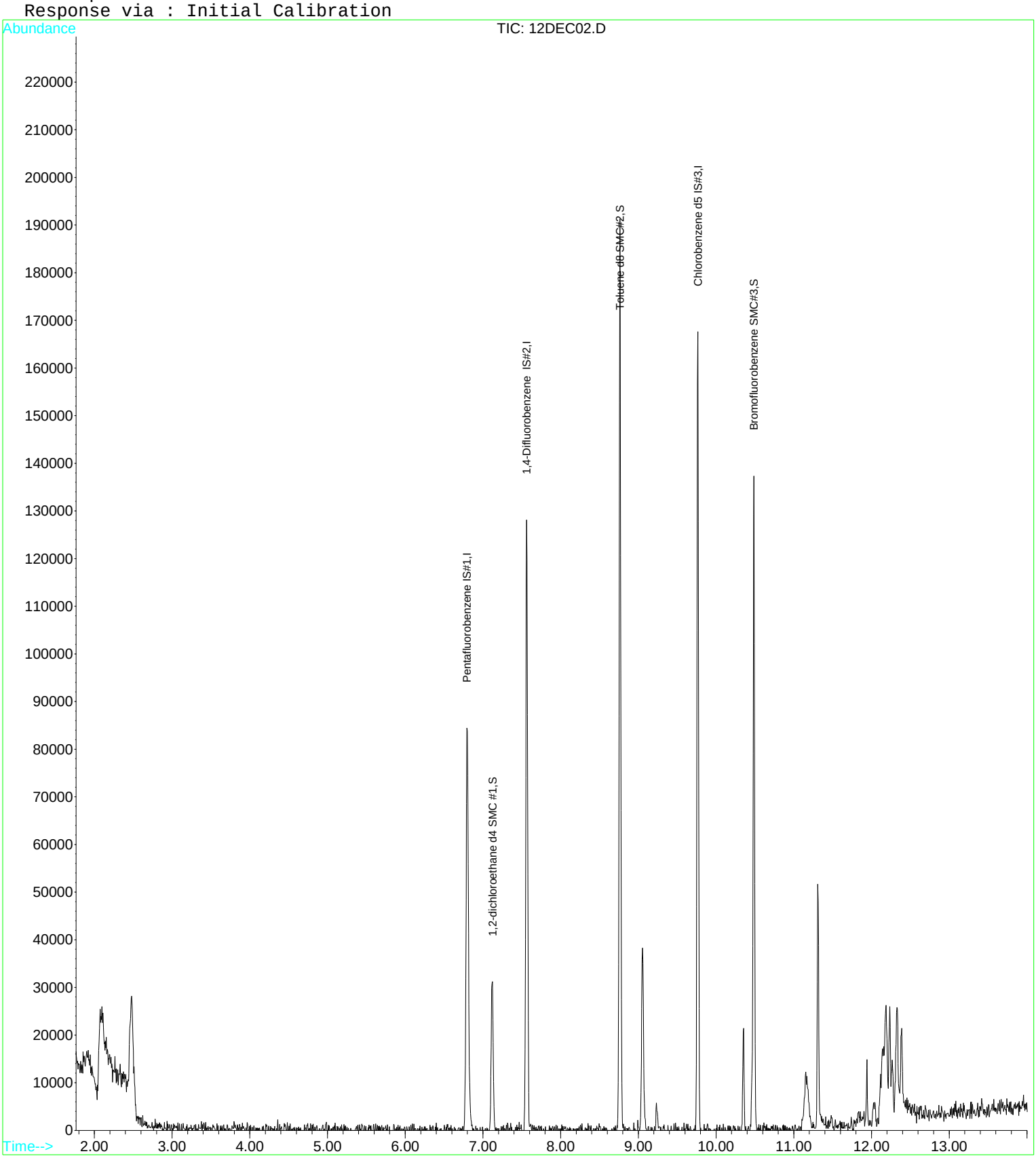
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021C\DEC12\12DEC02.D Vial: 2
Acq On : 12 Dec 2021 6:43 am Operator: MGC
Sample : 2125249-TUN1 Inst : MS-V5
Misc : 1;1I29003;50NG Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 6:52 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\06-0940\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Wed Dec 08 08:47:11 2021
Response via : Initial Calibration



Raw Data - Method Blank

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC05.D Vial: 5
Acq On : 23 Dec 2021 6:14 am Operator: MGC
Sample : B128095-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-18-6837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:18 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46439	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.57	63	72232	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	96495	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	73241	8.36	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 83.60%			
33) Toluene d8 SMC#2	8.77	98	427259	10.66	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 106.60%			
51) Bromofluorobenzene SMC#3	10.49	95	134063	9.30	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.00%			

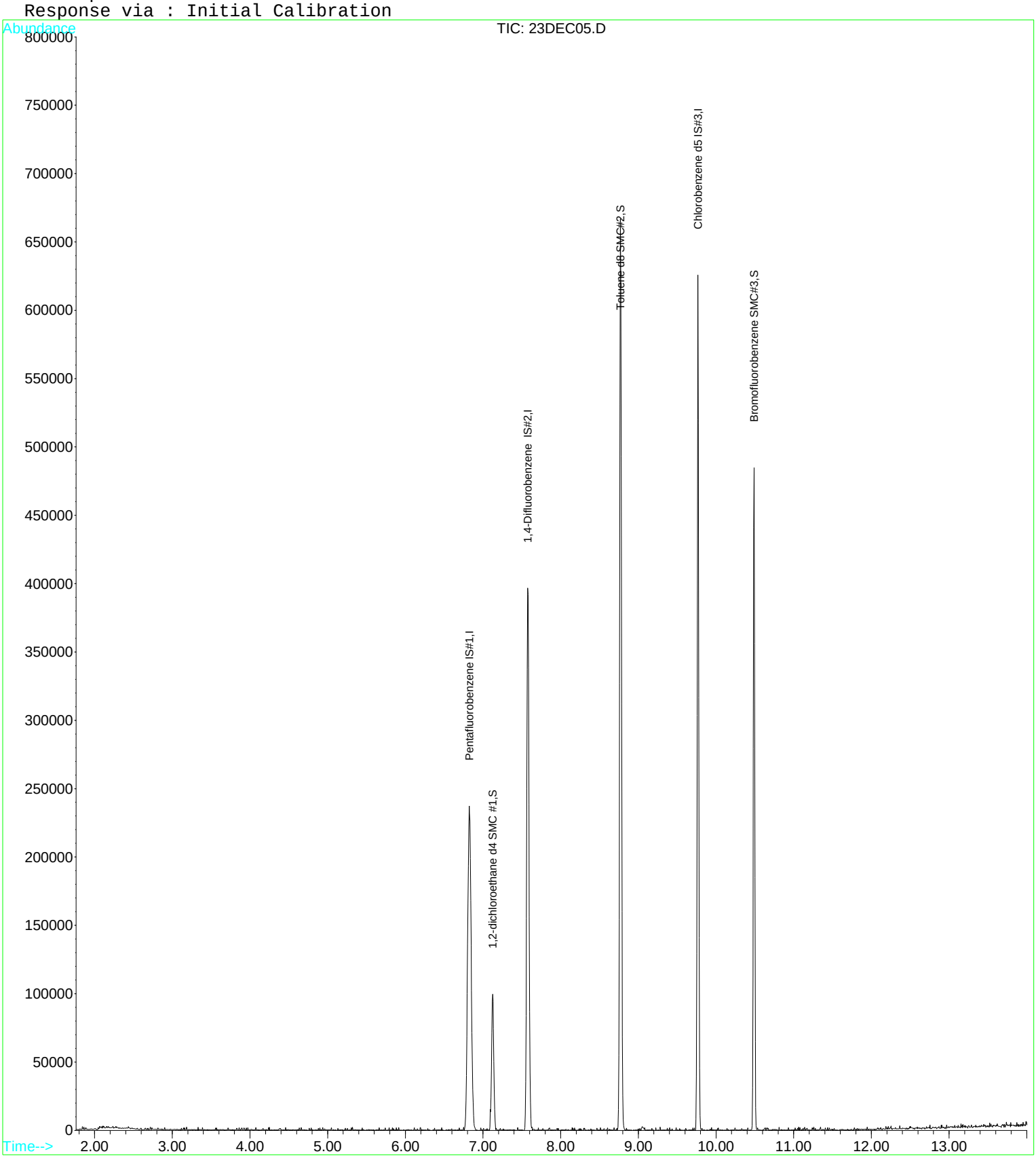
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC05.D Vial: 5
Acq On : 23 Dec 2021 6:14 am Operator: MGC
Sample : B128095-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-18-6837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:18 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC05.D Vial: 5
Acq On : 23 Dec 2021 6:14 am Operator: MGC
Sample : B128095-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-18-6837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:18 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46439	10.00	ug/L	0.00
29) 1,4-Difluorobenzene IS#2	7.57	63	72232	10.00	ug/L	0.00
36) Chlorobenzene d5 IS#3	9.77	119	96495	10.00	ug/L	0.00

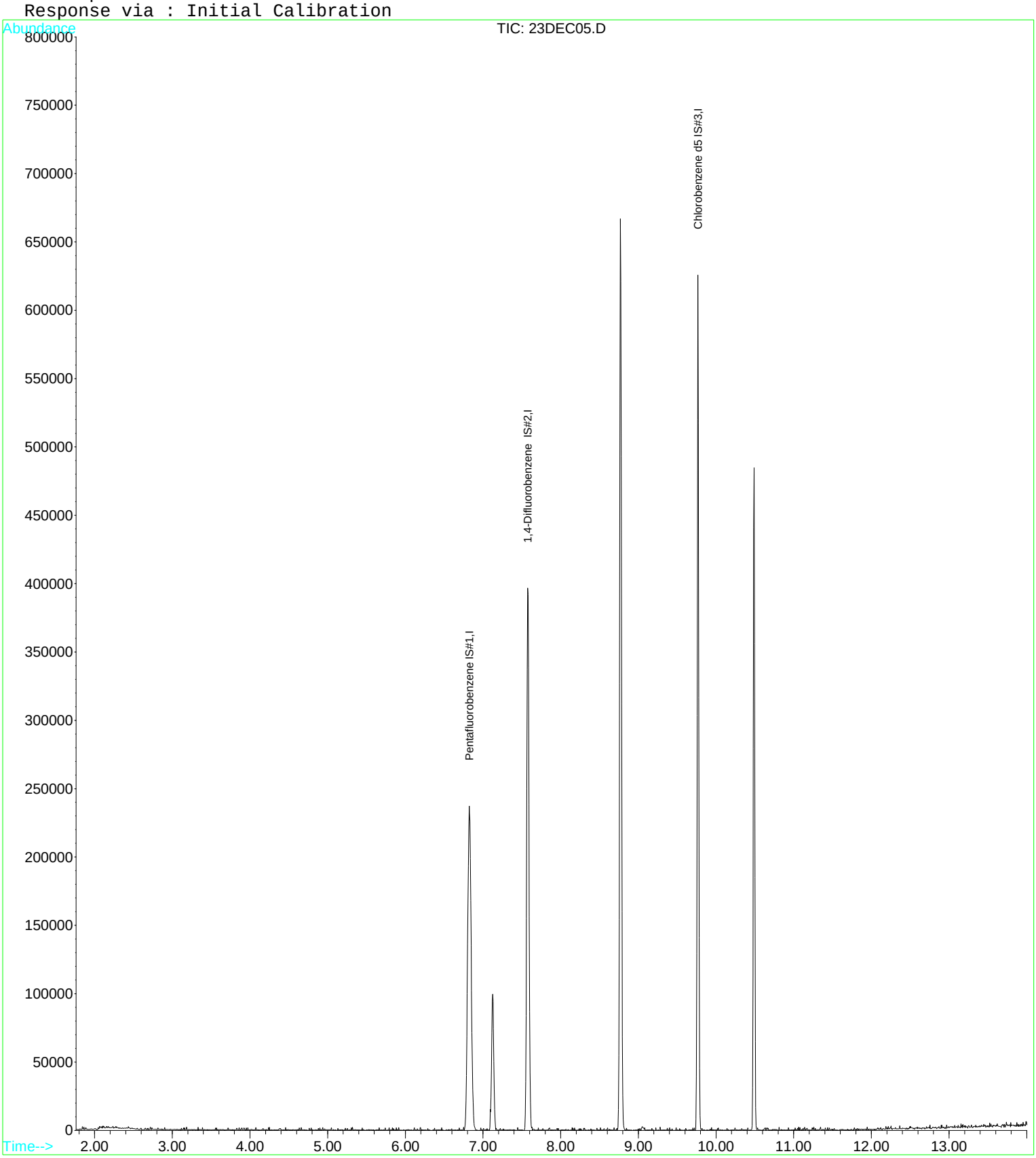
Target Compounds Qvalue

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC05.D Vial: 5
Acq On : 23 Dec 2021 6:14 am Operator: MGC
Sample : B128095-BLK1 Inst : MS-V5
Misc : 1 PB1;VRL-18-6837;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 8:18 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - Matrix Spike

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC22.D Vial: 22
Acq On : 23 Dec 2021 1:08 pm Operator: MGC
Sample : B128095-MS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:40 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	46653	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.58	63	70297	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	102052	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	77605	8.81	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 88.10%			
33) Toluene d8 SMC#2	8.77	98	443639	11.38	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 113.80%			
51) Bromofluorobenzene SMC#3	10.49	95	142713	9.36	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 93.60%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	440430	22.11	ug/L	97
3) Chlorodifluoromethane	1.89	51	371213	24.63	ug/L	89
4) Chloromethane	2.08	50	240739	25.36	ug/L	99
5) Vinyl chloride	2.20	62	308484	24.88	ug/L	100
6) Bromomethane	2.60	94	181476	16.91	ug/L	98
7) Chloroethane	2.74	64	143326	16.97	ug/L	100
8) Dichlorofluoromethane	3.02	67	423333	17.54	ug/L	100
9) Trichlorofluoromethane	3.07	101	471741	16.98	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	233209	18.32	ug/L	99
11) 1,1-Dichloroethene	3.74	61	338697	19.20	ug/L	99
12) Methylene chloride	4.38	84	281807	28.28	ug/L	99
13) MTBE	4.73	73	393054	26.50	ug/L	96
14) T-1,2-dichloroethene	4.73	96	339368	26.24	ug/L	98
15) 1,1-Dichloroethane	5.31	63	518623	25.18	ug/L	99
16) 2,2-Dichloropropane	6.13	77	455950	23.92	ug/L	85
17) Cis-1,2-dichloroethene	6.13	96	351578	27.51	ug/L	96
18) Bromochloromethane	6.44	128	110968	27.15	ug/L	94
19) Chloroform	6.57	83	534964	23.51	ug/L	98
20) 1,1,1-Trichloroethane	6.76	97	520549	22.19	ug/L	94
21) 1,1-Dichloropropene	6.95	75	420658	24.23	ug/L	98
22) Carbon tetrachloride	6.94	119	384467	24.82	ug/L	99
24) 1,2-Dichloroethane	7.20	62	233040	21.99	ug/L	98
25) Benzene	7.16	78	1185235	26.44	ug/L	98
27) Trichloroethene	7.78	130	339068	25.77	ug/L	97
28) 1,2-Dichloropropane	8.01	63	241118	29.64	ug/L	88
29) Dibromomethane	8.08	93	103787	26.83	ug/L	98
30) Bromodichloromethane	8.22	83	288915	26.09	ug/L	99
31) 2-ceve	8.44	63	192692	91.41	ug/L	98
32) Cis-1,3-dichloropropene	8.57	75	346515	29.87	ug/L	98
34) Toluene	8.82	92	786586	27.23	ug/L	94
35) Trans-1,3-dichloropropene	8.98	75	245585	28.95	ug/L	96
36) 1,1,2-Trichloroethane	9.12	97	143954	28.06	ug/L	95
37) Tetrachloroethene (PCE)	9.19	166	413693	28.74	ug/L	97
38) 1,3-Dichloropropane	9.23	76	233736	27.52	ug/L	99
39) Dibromochloromethane	9.39	129	154394	26.06	ug/L	98
40) 1,2-Dibromoethane	9.47	107	129659	28.85	ug/L	98
42) Chlorobenzene	9.79	112	760645	23.78	ug/L	94
43) 1,1,1,2-Tetrachloroethane	9.84	131	241302	24.20	ug/L	99
44) Ethylbenzene	9.84	106	464270	24.26	ug/L	84
45) P+m-Xylene	9.92	106	1072967	48.96	ug/L	86
46) O-Xylene	10.16	106	521621	25.25	ug/L	94
47) Styrene	10.17	104	787467	25.89	ug/L	92
48) Bromoform	10.29	173	73715	23.90	ug/L	98
49) Isopropylbenzene	10.38	105	1390743	22.91	ug/L	93
50) 1,1,2,2-Tetrachloroethane	10.55	83	134477	27.03	ug/L	100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC22.D Vial: 22
Acq On : 23 Dec 2021 1:08 pm Operator: MGC
Sample : B128095-MS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:40 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

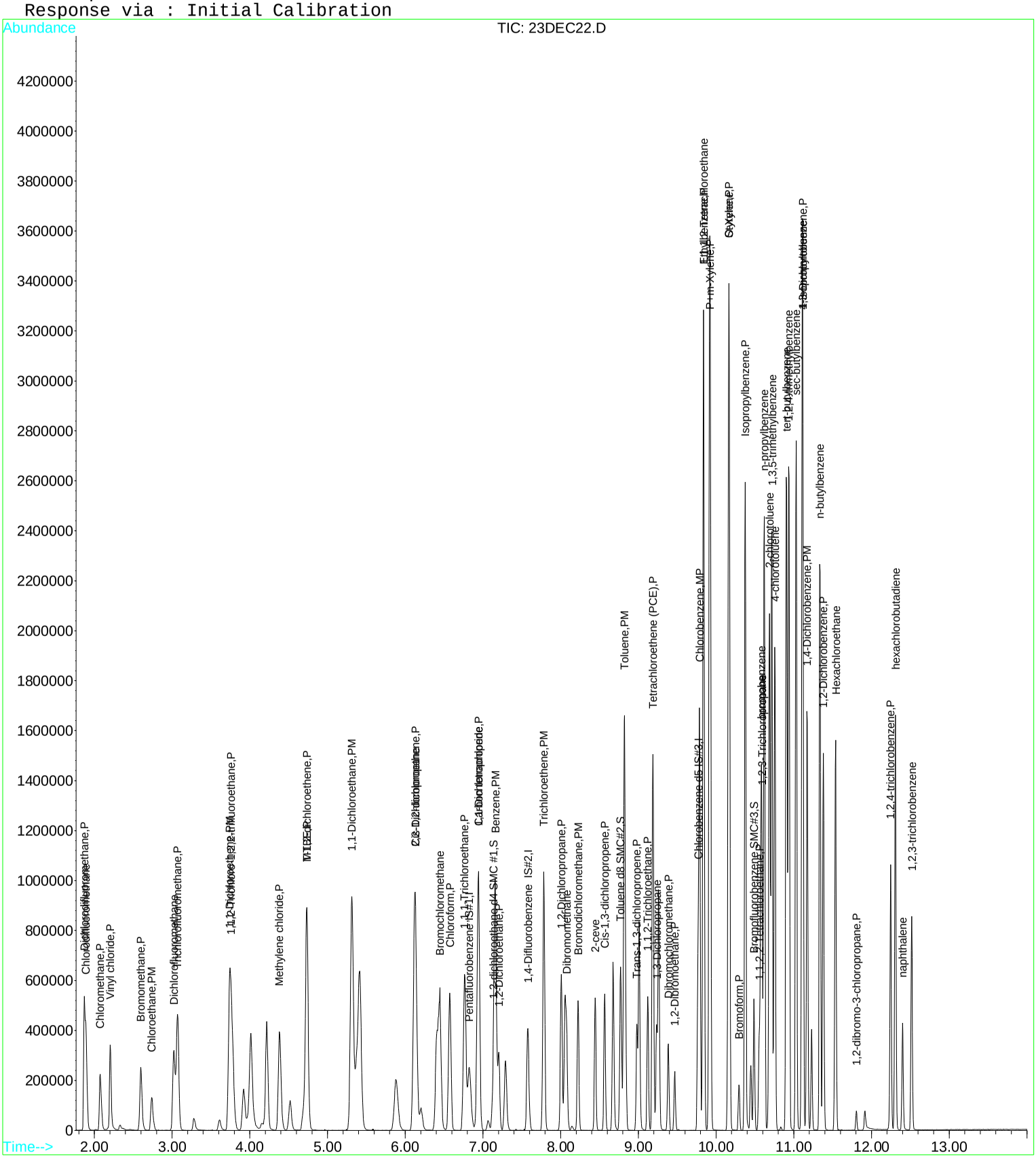
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	1,2,3-Trichloropropane	10.60	110	37391	24.12	ug/L	99
53)	n-propylbenzene	10.62	91	1556472	22.84	ug/L	91
54)	bromobenzene	10.59	156	319949	23.64	ug/L	93
55)	1,3,5-trimethylbenzene	10.72	105	1073891	22.92	ug/L	96
56)	2-chlorotoluene	10.69	91	1093070	22.50	ug/L	99
57)	4-chlorotoluene	10.75	91	960284	22.39	ug/L	99
58)	tert-butylbenzene	10.91	119	1238567	24.00	ug/L	87
59)	1,2,4-trimethylbenzene	10.93	105	997154	23.26	ug/L	95
60)	sec-butylbenzene	11.03	105	1465073	23.62	ug/L	92
61)	4-isopropyltoluene	11.11	119	1188966	24.20	ug/L	90
62)	1,3-Dichlorobenzene	11.12	146	616580	22.91	ug/L	94
63)	1,4-Dichlorobenzene	11.17	146	611264	24.20	ug/L	94
64)	n-butylbenzene	11.33	91	1015652	24.51	ug/L	94
65)	1,2-Dichlorobenzene	11.38	146	531205	24.16	ug/L	95
66)	Hexachloroethane	11.54	117	177252	25.93	ug/L	96
67)	1,2-dibromo-3-chloropropan	11.80	75	17794	22.50	ug/L	98
68)	1,2,4-trichlorobenzene	12.25	180	286039	25.13	ug/L	100
69)	hexachlorobutadiene	12.31	225	270525	22.94	ug/L	98
70)	naphthalene	12.40	128	280392	25.04	ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	230983	23.14	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC22.D Vial: 22
Acq On : 23 Dec 2021 1:08 pm Operator: MGC
Sample : B128095-MS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:40 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC22.D Vial: 22
Acq On : 23 Dec 2021 1:08 pm Operator: MGC
Sample : B128095-MS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:41 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

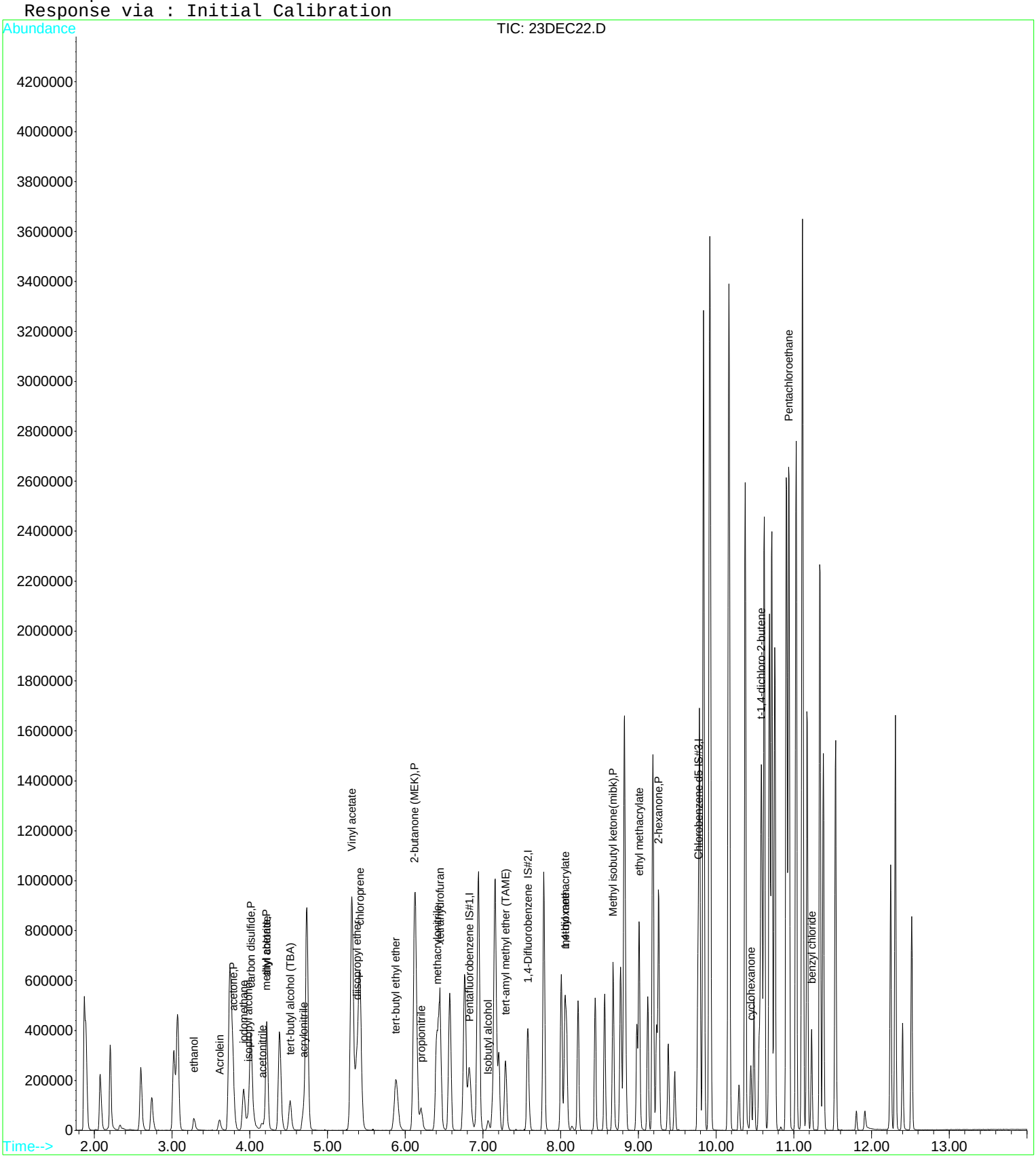
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.83	137	46653	10.00	ug/L		0.02
29) 1,4-Difluorobenzene IS#2	7.58	63	70297	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	102052	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	59960	3299.23	ug/L	#	47
6) isopropyl alcohol	3.98	45	68027	718.81	ug/L	#	56
7) Acrolein	3.61	56	53633	243.07	ug/L	#	40
8) acetone	3.79	43	166040	252.42	ug/L		95
9) tert-butyl alcohol (TBA)	4.52	59	171936	872.74	ug/L		100
10) acetonitrile	4.16	41	43627	237.60	ug/L	#	52
11) methyl acetate	4.21	43	9459	6.20	ug/L		85
12) allyl chloride	4.22	41	480215	38.76	ug/L		97
13) iodomethane	3.92	142	261944	15.86	ug/L		96
14) acrylonitrile	4.69	53	82890	108.71	ug/L	#	74
15) carbon disulfide	4.01	76	802954	25.62	ug/L		99
17) diisopropyl ether	5.37	87	146141	18.76	ug/L		70
18) Vinyl acetate	5.32	43	1233625	205.57	ug/L		96
19) chloroprene	5.42	53	527128	33.13	ug/L		91
20) tert-butyl ethyl ether	5.88	59	308790	16.71	ug/L		96
21) 2-butanone (MEK)	6.11	43	174643	185.96	ug/L	#	78
22) propionitrile	6.20	54	136809	479.46	ug/L	#	85
23) Isobutyl alcohol	7.07	43	30695	562.43	ug/L	#	77
24) methacrylonitrile	6.40	67	237574	190.72	ug/L		96
26) tetrahydrofuran	6.45	42	233466	424.78	ug/L		91
28) tert-amyl methyl ether (TA	7.29	73	254649	15.90	ug/L		91
30) methyl methacrylate	8.05	69	205687	93.44	ug/L		98
32) 1,4-dioxane	8.06	88	59942	2200.35	ug/L	#	78
33) Methyl isobutyl ketone(mib	8.67	43	380962	187.28	ug/L		90
34) ethyl methacrylate	9.01	69	461695	92.91	ug/L		95
35) 2-hexanone	9.26	43	505804	363.65	ug/L		90
38) cyclohexanone	10.45	55	87642	407.10	ug/L		89
39) t-1,4-dichloro-2-butene	10.58	75	144435m	138.87	ug/L		
41) Pentachloroethane	10.94	167	79684	28.60	ug/L	#	62
42) benzyl chloride	11.23	91	248673	40.01	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC22.D Vial: 22
Acq On : 23 Dec 2021 1:08 pm Operator: MGC
Sample : B128095-MS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:41 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - Matrix Spike Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC23.D Vial: 23
Acq On : 23 Dec 2021 1:33 pm Operator: MGC
Sample : B128095-MSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:42 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46659	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.58	63	73650	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	101670	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	78690	8.94	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 89.40%			
33) Toluene d8 SMC#2	8.77	98	452714	11.08	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 110.80%			
51) Bromofluorobenzene SMC#3	10.49	95	142804	9.41	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 94.10%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	450161	22.60	ug/L	98
3) Chlorodifluoromethane	1.89	51	377539	25.05	ug/L	89
4) Chloromethane	2.07	50	246631	25.98	ug/L	97
5) Vinyl chloride	2.21	62	314296	25.35	ug/L	99
6) Bromomethane	2.60	94	201719	18.79	ug/L	98
7) Chloroethane	2.74	64	189789	22.47	ug/L	99
8) Dichlorofluoromethane	3.02	67	597857	24.76	ug/L	99
9) Trichlorofluoromethane	3.07	101	607684	21.87	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	325500	25.57	ug/L	99
11) 1,1-Dichloroethene	3.74	61	456114	25.85	ug/L	94
12) Methylene chloride	4.38	84	280229	28.12	ug/L	99
13) MTBE	4.73	73	379936	25.62	ug/L	95
14) T-1,2-dichloroethene	4.73	96	349158	26.99	ug/L	98
15) 1,1-Dichloroethane	5.31	63	527434	25.60	ug/L	99
16) 2,2-Dichloropropane	6.14	77	467940	24.54	ug/L	87
17) Cis-1,2-dichloroethene	6.12	96	351314	27.48	ug/L	97
18) Bromochloromethane	6.43	128	108114	26.45	ug/L	95
19) Chloroform	6.57	83	532348	23.39	ug/L	99
20) 1,1,1-Trichloroethane	6.77	97	531828	22.67	ug/L	94
21) 1,1-Dichloropropene	6.95	75	436065	25.12	ug/L	98
22) Carbon tetrachloride	6.94	119	396074	25.57	ug/L	99
24) 1,2-Dichloroethane	7.20	62	234000	22.08	ug/L	99
25) Benzene	7.16	78	1185376	26.44	ug/L	98
27) Trichloroethene	7.78	130	344225	24.97	ug/L	97
28) 1,2-Dichloropropane	8.01	63	235310	27.61	ug/L	89
29) Dibromomethane	8.08	93	99901	24.65	ug/L	99
30) Bromodichloromethane	8.23	83	296582	25.57	ug/L	99
31) 2-ceve	8.45	63	186654	84.51	ug/L	99
32) Cis-1,3-dichloropropene	8.56	75	344984	28.38	ug/L	98
34) Toluene	8.82	92	792306	26.18	ug/L	95
35) Trans-1,3-dichloropropene	8.98	75	237594	26.73	ug/L	98
36) 1,1,2-Trichloroethane	9.12	97	140074	26.06	ug/L	95
37) Tetrachloroethene (PCE)	9.18	166	417221	27.66	ug/L	96
38) 1,3-Dichloropropane	9.24	76	225437	25.34	ug/L	99
39) Dibromochloromethane	9.38	129	152425	24.78	ug/L	99
40) 1,2-Dibromoethane	9.47	107	119734	25.43	ug/L	99
42) Chlorobenzene	9.79	112	750843	23.56	ug/L	93
43) 1,1,1,2-Tetrachloroethane	9.84	131	232200	23.38	ug/L	97
44) Ethylbenzene	9.84	106	468652	24.59	ug/L	86
45) P+m-Xylene	9.92	106	1077339	49.34	ug/L	86
46) O-Xylene	10.16	106	521531	25.34	ug/L	95
47) Styrene	10.17	104	787954	26.00	ug/L	92
48) Bromoform	10.30	173	70473	23.11	ug/L	99
49) Isopropylbenzene	10.37	105	1398336	23.12	ug/L	94
50) 1,1,2,2-Tetrachloroethane	10.55	83	123780	24.97	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC23.D Vial: 23
Acq On : 23 Dec 2021 1:33 pm Operator: MGC
Sample : B128095-MSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:42 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

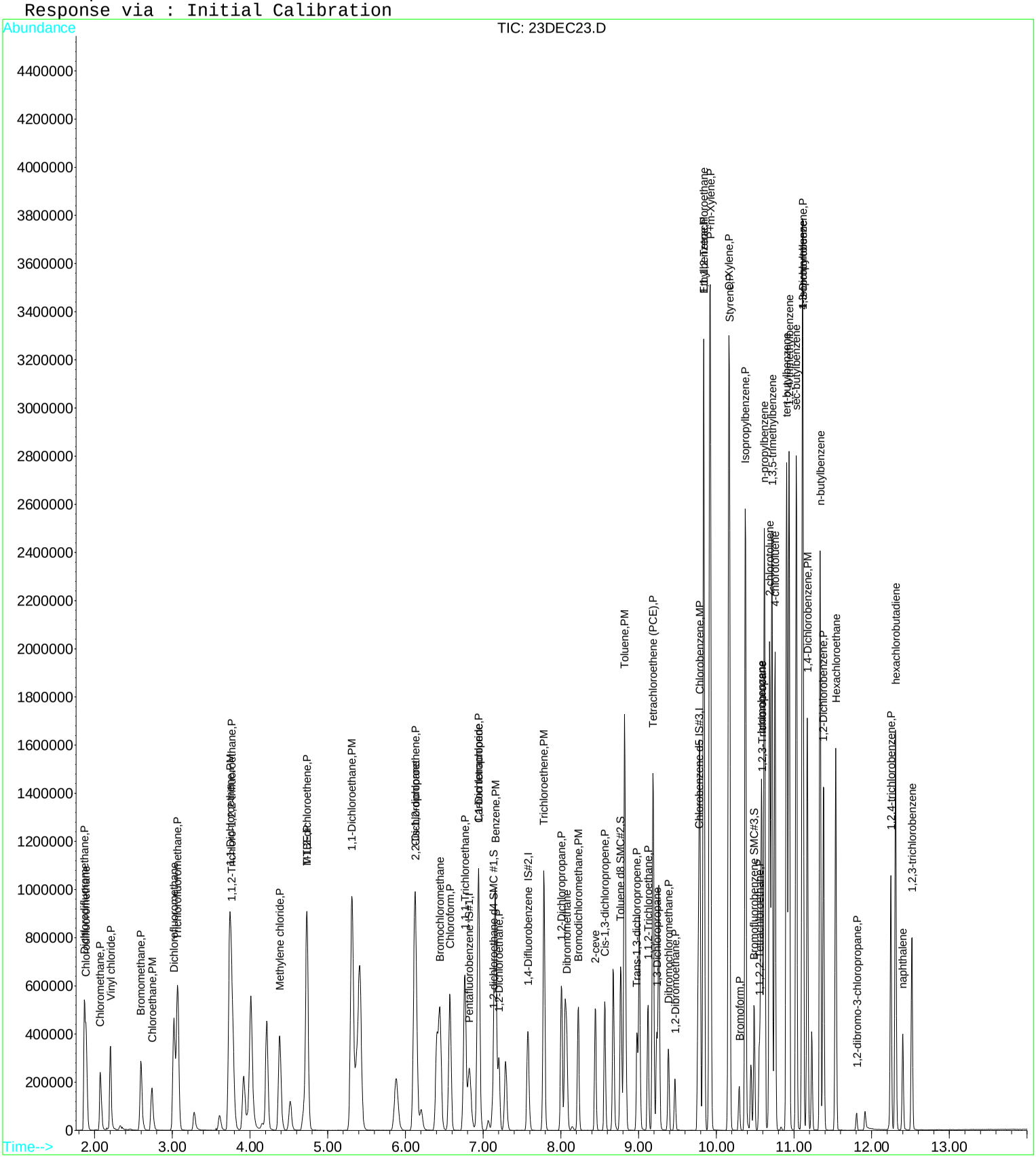
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	1,2,3-Trichloropropane	10.59	110	35192	22.79	ug/L	98
53)	n-propylbenzene	10.62	91	1585212	23.35	ug/L	91
54)	bromobenzene	10.58	156	312839	23.20	ug/L	95
55)	1,3,5-trimethylbenzene	10.72	105	1084561	23.24	ug/L	97
56)	2-chlorotoluene	10.69	91	1090219	22.52	ug/L	99
57)	4-chlorotoluene	10.76	91	955934	22.38	ug/L	97
58)	tert-butylbenzene	10.91	119	1262300	24.55	ug/L	86
59)	1,2,4-trimethylbenzene	10.94	105	997380	23.35	ug/L	97
60)	sec-butylbenzene	11.03	105	1488700	24.09	ug/L	92
61)	4-isopropyltoluene	11.11	119	1199253	24.50	ug/L	90
62)	1,3-Dichlorobenzene	11.12	146	613892	22.89	ug/L	93
63)	1,4-Dichlorobenzene	11.17	146	600261	23.85	ug/L	94
64)	n-butylbenzene	11.34	91	1029777	24.94	ug/L	96
65)	1,2-Dichlorobenzene	11.38	146	521789	23.83	ug/L	94
66)	Hexachloroethane	11.54	117	180098	26.33	ug/L	97
67)	1,2-dibromo-3-chloropropan	11.81	75	16497	20.98	ug/L	97
68)	1,2,4-trichlorobenzene	12.25	180	280952	24.78	ug/L	99
69)	hexachlorobutadiene	12.31	225	281895	23.99	ug/L	98
70)	naphthalene	12.40	128	268079	24.20	ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	226873	22.84	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC23.D Vial: 23
Acq On : 23 Dec 2021 1:33 pm Operator: MGC
Sample : B128095-MSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:42 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC23.D Vial: 23
Acq On : 23 Dec 2021 1:33 pm Operator: MGC
Sample : B128095-MSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:43 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

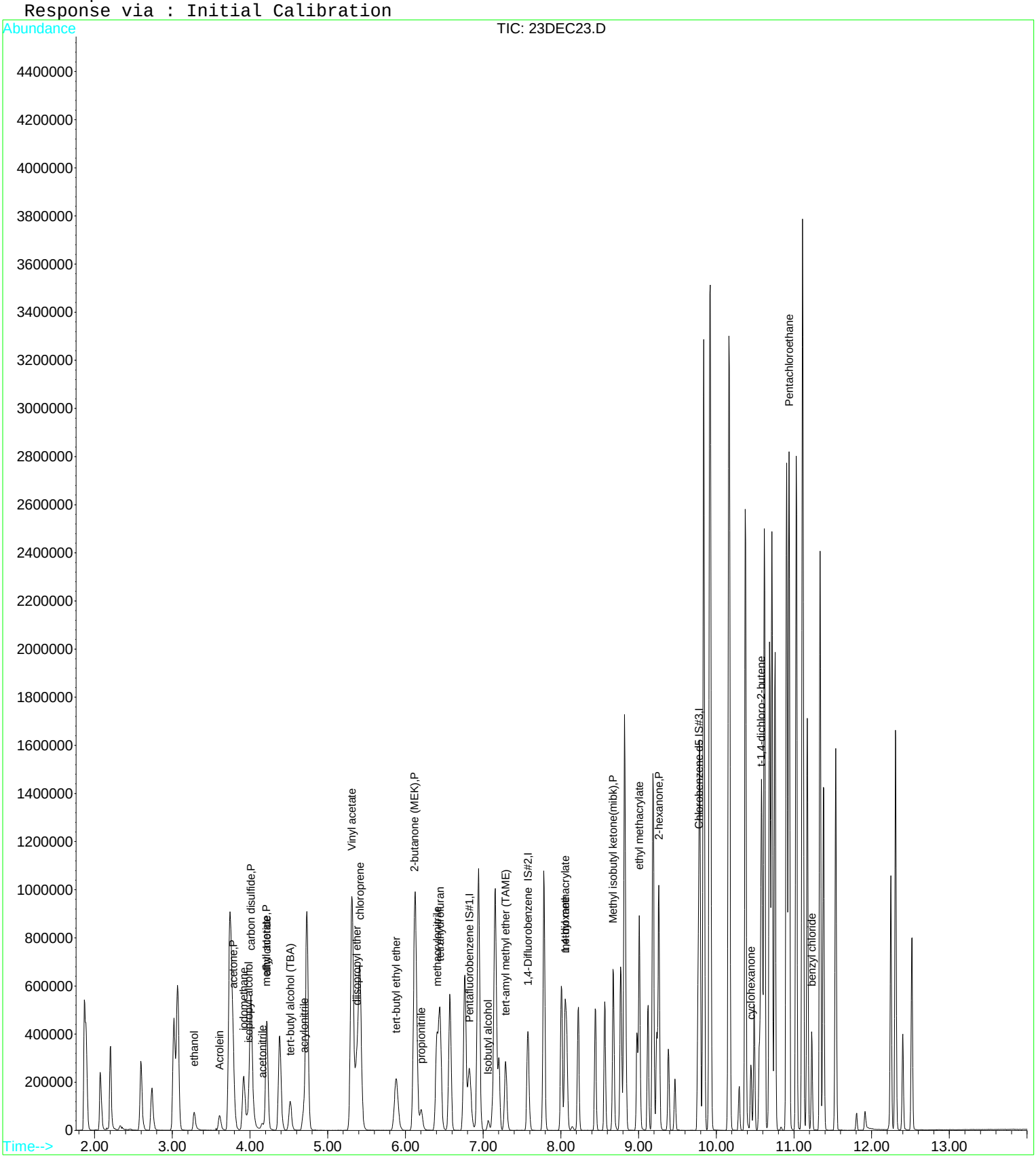
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46659	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	73650	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	101670	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	95511	5254.70	ug/L	#	44
6) isopropyl alcohol	3.98	45	94838	1001.99	ug/L	#	51
7) Acrolein	3.61	56	80228	359.40	ug/L	#	44
8) acetone	3.79	43	221211	336.25	ug/L		86
9) tert-butyl alcohol (TBA)	4.52	59	178237	904.61	ug/L		100
10) acetonitrile	4.16	41	41999	228.70	ug/L	#	42
11) methyl acetate	4.20	43	9469	6.20	ug/L		87
12) allyl chloride	4.21	41	538932	43.50	ug/L		99
13) iodomethane	3.92	142	363871	22.03	ug/L		97
14) acrylonitrile	4.69	53	80337	105.35	ug/L	#	73
15) carbon disulfide	4.01	76	1149590	36.67	ug/L		99
17) diisopropyl ether	5.37	87	152908	19.63	ug/L		70
18) Vinyl acetate	5.32	43	1297700	216.22	ug/L		97
19) chloroprene	5.41	53	564547	35.48	ug/L		89
20) tert-butyl ethyl ether	5.87	59	321511	17.40	ug/L		95
21) 2-butanone (MEK)	6.11	43	178836	190.40	ug/L	#	80
22) propionitrile	6.20	54	134463	471.18	ug/L	#	85
23) Isobutyl alcohol	7.06	43	31313	572.28	ug/L	#	76
24) methacrylonitrile	6.40	67	237247	190.44	ug/L		78
26) tetrahydrofuran	6.45	42	224447	408.31	ug/L		91
28) tert-amyl methyl ether (TA	7.29	73	266482	16.64	ug/L		90
30) methyl methacrylate	8.06	69	211550	91.73	ug/L		99
32) 1,4-dioxane	8.06	88	61085	2140.22	ug/L		81
33) Methyl isobutyl ketone(mib	8.67	43	386860	181.52	ug/L		91
34) ethyl methacrylate	9.01	69	464639	89.24	ug/L		95
35) 2-hexanone	9.26	43	524474	359.90	ug/L		91
38) cyclohexanone	10.44	55	92996	433.59	ug/L		89
39) t-1,4-dichloro-2-butene	10.57	75	129264m	124.97	ug/L		
41) Pentachloroethane	10.94	167	85653	30.85	ug/L	#	63
42) benzyl chloride	11.23	91	244076	39.48	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC23.D Vial: 23
Acq On : 23 Dec 2021 1:33 pm Operator: MGC
Sample : B128095-MSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:43 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - Lab Control Sample

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:30 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	43070	10.00	ug/L	0.01
26) 1,4-Difluorobenzene IS#2	7.58	63	66488	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	95406	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.12	65	74137	9.12	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 91.20%			
33) Toluene d8 SMC#2	8.77	98	413141m	11.20	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 112.00%			
51) Bromofluorobenzene SMC#3	10.49	95	137153	9.63	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.30%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	451186	24.54	ug/L	97
3) Chlorodifluoromethane	1.89	51	375149	26.96	ug/L	90
4) Chloromethane	2.07	50	229011	26.14	ug/L	100
5) Vinyl chloride	2.21	62	293475	25.64	ug/L	99
6) Bromomethane	2.60	94	212475	21.44	ug/L	98
7) Chloroethane	2.74	64	230237	29.53	ug/L	99
8) Dichlorofluoromethane	3.02	67	580183	26.03	ug/L	100
9) Trichlorofluoromethane	3.07	101	590106	23.01	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	313937	26.72	ug/L	98
11) 1,1-Dichloroethene	3.74	61	439312	26.97	ug/L	96
12) Methylene chloride	4.38	84	268328	29.17	ug/L	99
13) MTBE	4.73	73	372938	27.24	ug/L	95
14) T-1,2-dichloroethene	4.73	96	335233	28.07	ug/L	97
15) 1,1-Dichloroethane	5.31	63	504744	26.54	ug/L	99
16) 2,2-Dichloropropane	6.14	77	438577	24.92	ug/L	84
17) Cis-1,2-dichloroethene	6.13	96	344305	29.18	ug/L	95
18) Bromochloromethane	6.44	128	105931	28.07	ug/L	93
19) Chloroform	6.57	83	524490	24.96	ug/L	99
20) 1,1,1-Trichloroethane	6.77	97	499877	23.08	ug/L	95
21) 1,1-Dichloropropene	6.95	75	423373	26.42	ug/L	99
22) Carbon tetrachloride	6.94	119	342857	23.98	ug/L	99
24) 1,2-Dichloroethane	7.21	62	241247	24.66	ug/L	97
25) Benzene	7.16	78	1159193	28.01	ug/L	98
27) Trichloroethene	7.79	130	329128	26.45	ug/L	98
28) 1,2-Dichloropropane	8.01	63	228604	29.71	ug/L	91
29) Dibromomethane	8.08	93	101206	27.66	ug/L	97
30) Bromodichloromethane	8.23	83	284148	27.13	ug/L	97
31) 2-ceve	8.44	63	184996	92.78	ug/L	99
32) Cis-1,3-dichloropropene	8.56	75	326479	29.75	ug/L	98
34) Toluene	8.82	92	762740	27.92	ug/L	94
35) Trans-1,3-dichloropropene	8.98	75	230629	28.74	ug/L	97
36) 1,1,2-Trichloroethane	9.12	97	139734	28.79	ug/L	96
37) Tetrachloroethene (PCE)	9.18	166	369888	27.17	ug/L	97
38) 1,3-Dichloropropane	9.24	76	225316	28.05	ug/L	99
39) Dibromochloromethane	9.38	129	140571	25.24	ug/L	99
40) 1,2-Dibromoethane	9.47	107	122675	28.86	ug/L	100
42) Chlorobenzene	9.79	112	737829	24.67	ug/L	94
43) 1,1,1,2-Tetrachloroethane	9.84	131	221956	23.81	ug/L	100
44) Ethylbenzene	9.84	106	449677	25.14	ug/L	83
45) P+m-Xylene	9.92	106	1039156	50.72	ug/L	85
46) O-Xylene	10.16	106	502365	26.01	ug/L	94
47) Styrene	10.17	104	763917	26.86	ug/L	92
48) Bromoform	10.30	173	63494	22.35	ug/L	99
49) Isopropylbenzene	10.37	105	1359745	23.96	ug/L	94
50) 1,1,2,2-Tetrachloroethane	10.55	83	127981	27.51	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:30 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

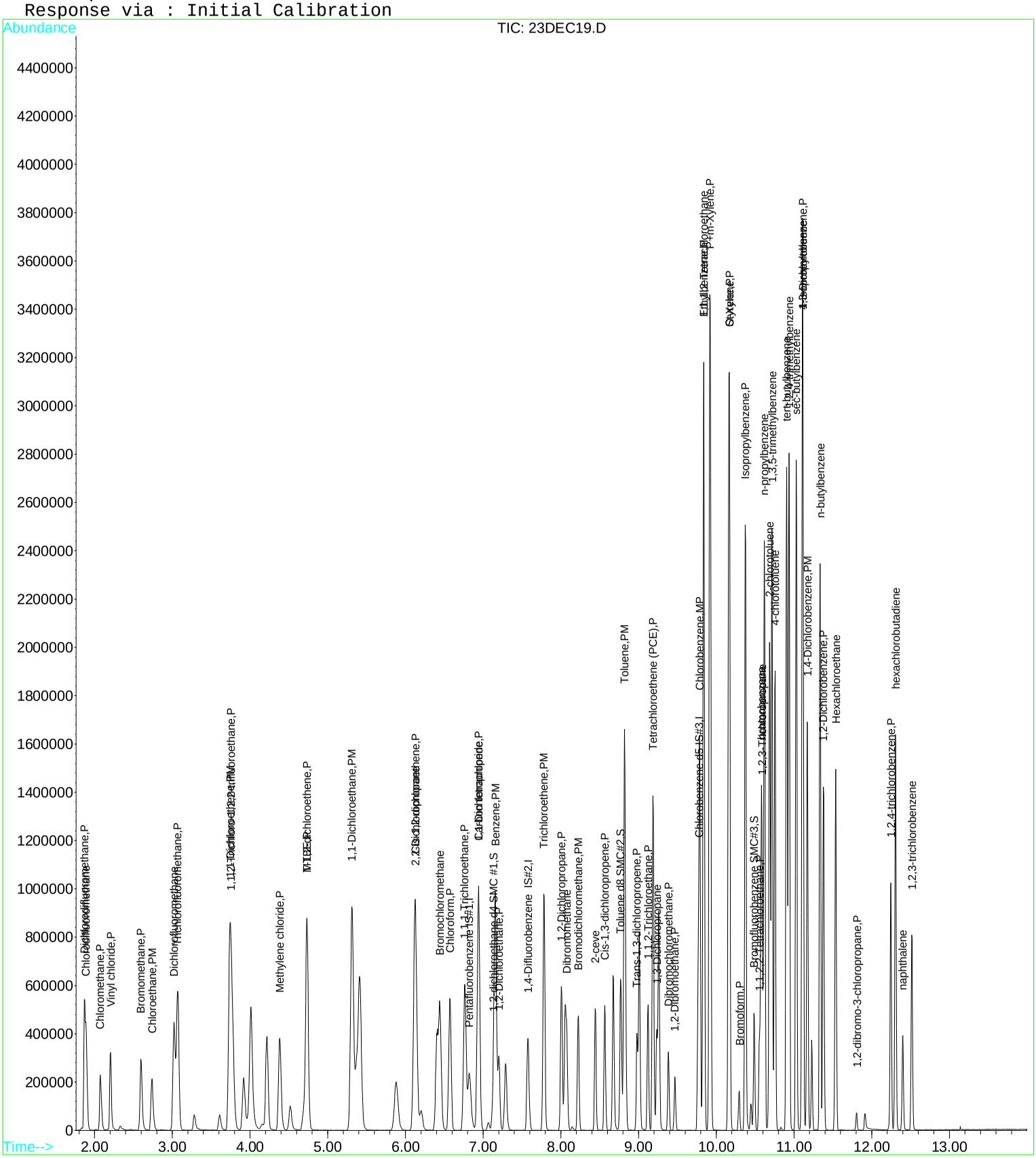
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
52)	1,2,3-Trichloropropane	10.59	110	35925	24.79 ug/L	98
53)	n-propylbenzene	10.62	91	1538845	24.16 ug/L	91
54)	bromobenzene	10.58	156	311285	24.60 ug/L	95
55)	1,3,5-trimethylbenzene	10.72	105	1061472	24.24 ug/L	95
56)	2-chlorotoluene	10.69	91	1072723	23.62 ug/L	99
57)	4-chlorotoluene	10.76	91	948521	23.66 ug/L	97
58)	tert-butylbenzene	10.91	119	1231639	25.53 ug/L	87
59)	1,2,4-trimethylbenzene	10.94	105	986411	24.61 ug/L	96
60)	sec-butylbenzene	11.03	105	1453262	25.06 ug/L	91
61)	4-isopropyltoluene	11.11	119	1173336	25.55 ug/L	90
62)	1,3-Dichlorobenzene	11.12	146	608487	24.18 ug/L	94
63)	1,4-Dichlorobenzene	11.17	146	591530	25.05 ug/L	95
64)	n-butylbenzene	11.34	91	1004883	25.94 ug/L	95
65)	1,2-Dichlorobenzene	11.38	146	515834	25.10 ug/L	96
66)	Hexachloroethane	11.54	117	151737	24.21 ug/L	87
67)	1,2-dibromo-3-chloropropan	11.80	75	16185	21.91 ug/L	99
68)	1,2,4-trichlorobenzene	12.25	180	278279	26.15 ug/L	99
69)	hexachlorobutadiene	12.31	225	272495	24.71 ug/L	98
70)	naphthalene	12.40	128	265168	25.28 ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	223290	23.84 ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:30 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:28 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

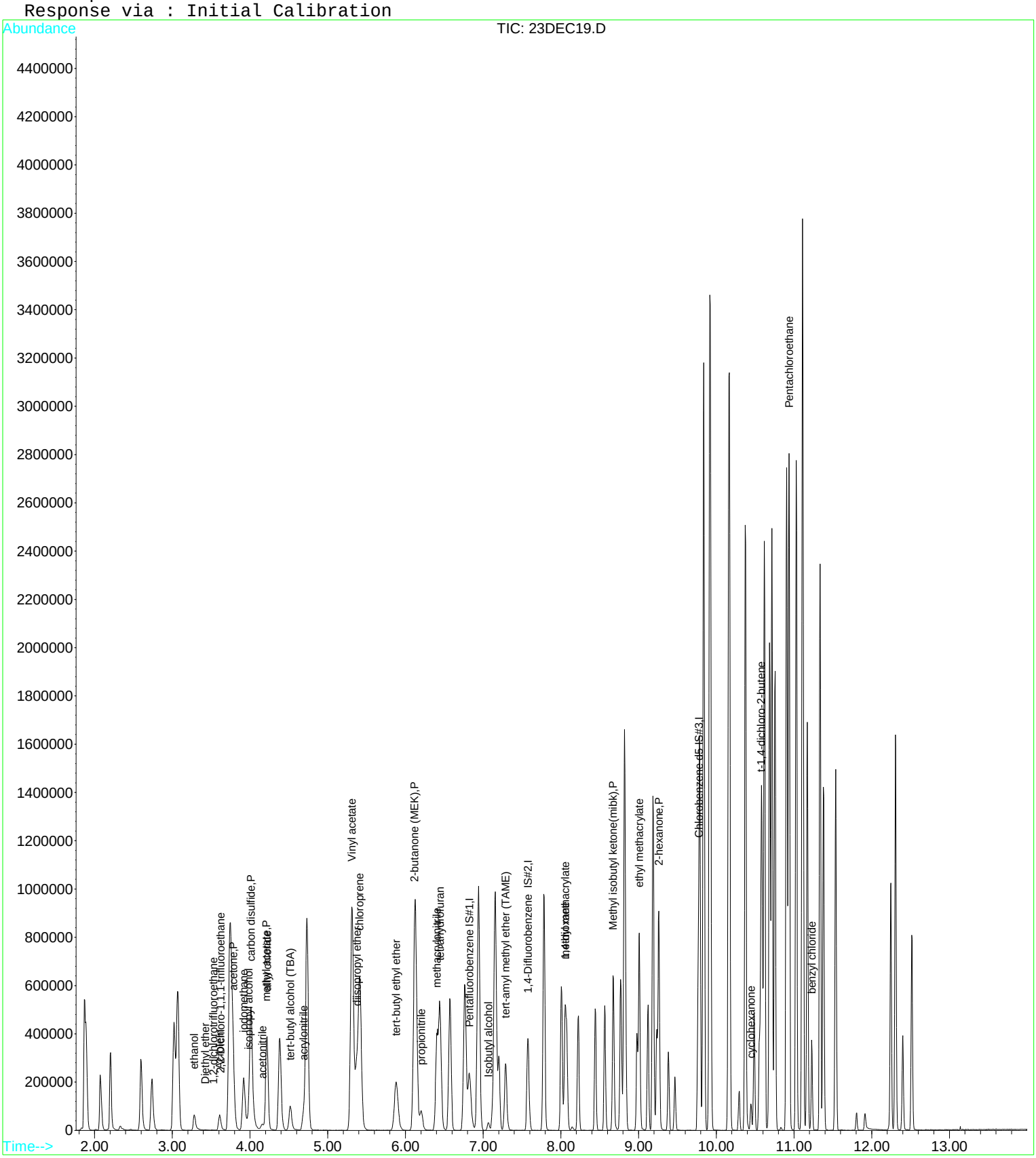
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	43070	10.00	ug/L		0.00
29) 1,4-Difluorobenzene IS#2	7.58	63	66488	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	95406	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	81523	4858.87	ug/L	#	44
3) 2,2-Dichloro-1,1,1-trifluo	3.63	83	1164	0.07	ug/L	#	44
4) 1,2-dichlorotrifluoroethan	3.52	67	699	0.06	ug/L	#	14
5) Diethyl ether	3.43	59	259	0.07	ug/L	#	1
6) isopropyl alcohol	3.98	45	76164	871.74	ug/L		64
7) Acrolein	3.61	56	76196	369.54	ug/L	#	46
8) acetone	3.79	43	197142	324.64	ug/L		87
9) tert-butyl alcohol (TBA)	4.52	59	147125	808.93	ug/L		100
10) acetonitrile	4.16	41	43956	259.30	ug/L		92
11) methyl acetate	4.20	43	8671	6.15	ug/L		85
12) allyl chloride	4.22	41	458391	40.08	ug/L		99
13) iodomethane	3.92	142	337833	22.16	ug/L		98
14) acrylonitrile	4.69	53	76613	108.83	ug/L	#	72
15) carbon disulfide	4.01	76	1050399	36.30	ug/L		99
17) diisopropyl ether	5.37	87	111333	15.48	ug/L		94
18) Vinyl acetate	5.32	43	1213937	219.12	ug/L		97
19) chloroprene	5.41	53	528684	36.00	ug/L		92
20) tert-butyl ethyl ether	5.88	59	295502	17.32	ug/L		96
21) 2-butanone (MEK)	6.11	43	167455	193.14	ug/L	#	79
22) propionitrile	6.20	54	124142	471.27	ug/L	#	83
23) Isobutyl alcohol	7.07	43	24697	498.26	ug/L	#	80
24) methacrylonitrile	6.40	67	229463	199.54	ug/L		78
26) tetrahydrofuran	6.45	42	218460	430.54	ug/L		91
28) tert-amyl methyl ether (TA	7.29	73	246368	16.67	ug/L		93
30) methyl methacrylate	8.06	69	197464	94.85	ug/L		99
32) 1,4-dioxane	8.06	88	58764	2280.69	ug/L		82
33) Methyl isobutyl ketone(mib	8.67	43	371423	193.05	ug/L		93
34) ethyl methacrylate	9.01	69	438733	93.34	ug/L		94
35) 2-hexanone	9.26	43	478497	363.72	ug/L		90
38) cyclohexanone	10.44	55	38593	191.75	ug/L		94
39) t-1,4-dichloro-2-butene	10.57	75	119401m	123.05	ug/L		
41) Pentachloroethane	10.94	167	86051	33.03	ug/L	#	63
42) benzyl chloride	11.23	91	221425	38.32	ug/L		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:28 2021 Quant Results File: 82605CX.RES

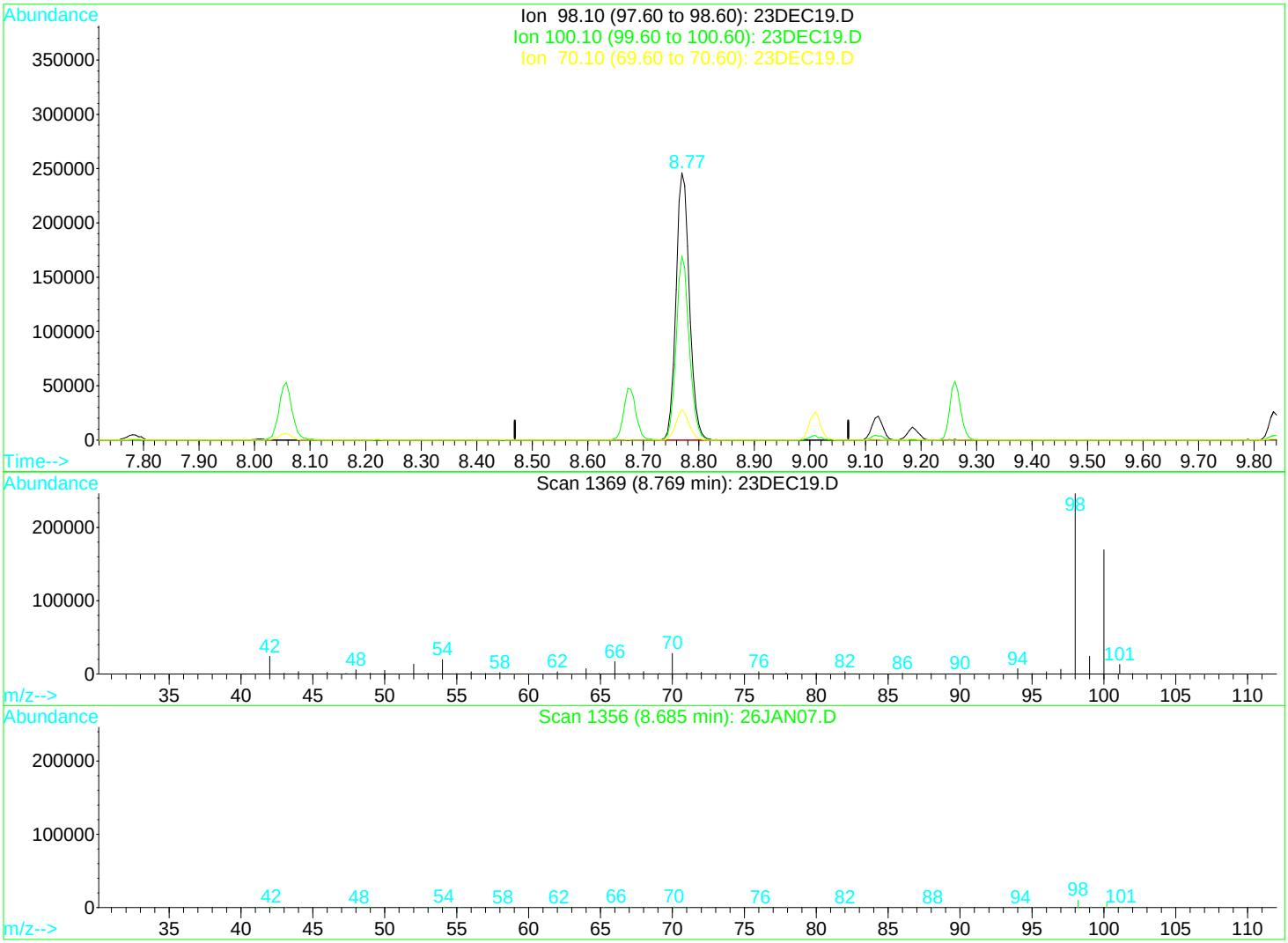
Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:27 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration



TIC: 23DEC19.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.24ug/L

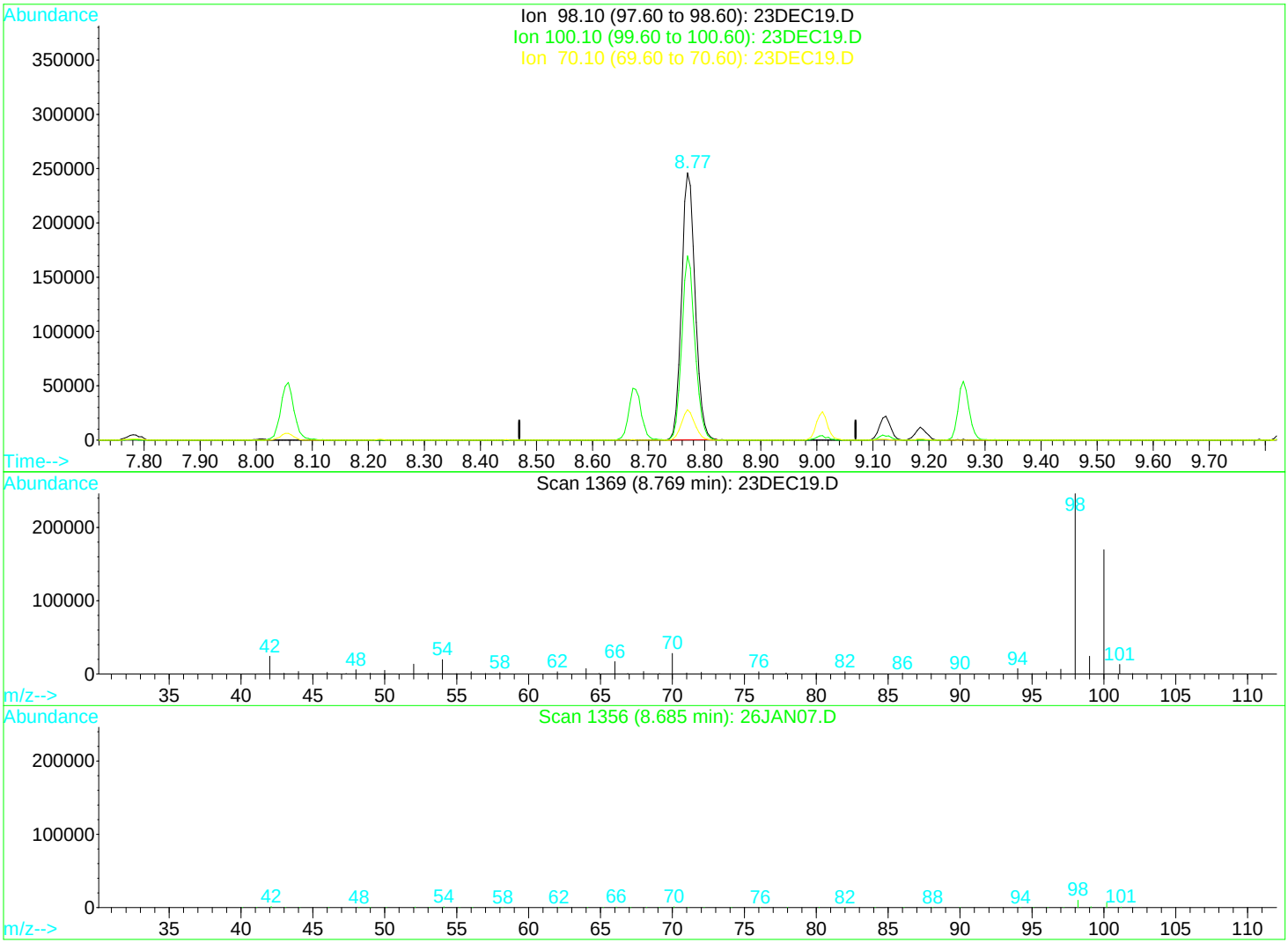
response 414550

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	67.06
70.10	11.70	11.12
0.00	0.00	0.00

Quantitation Report (Qedit)

Data File : D:\DATA\DEC2021\DEC23\23DEC19.D Vial: 19
Acq On : 23 Dec 2021 11:55 am Operator: MGC
Sample : B128095-BS1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 23 12:30 2021 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Multiple Level Calibration



TIC: 23DEC19.D

(33) Toluene d8 SMC#2 (S)

8.77min 11.20ug/L m

response 413141

Ion	Exp%	Act%
98.10	100	100
100.10	65.70	67.29
70.10	11.70	11.15
0.00	0.00	0.00

Analyst: MGC
Date: 2021-12-23 12:30
Reason: (P) - Peak Correction - misidentification correction
(X) - Reviewed for acceptability

Raw Data - Lab Control Sample Duplicate

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC21.D Vial: 21
Acq On : 23 Dec 2021 12:44 pm Operator: MGC
Sample : B128095-BSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:38 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46917	10.00	ug/L	0.02
26) 1,4-Difluorobenzene IS#2	7.57	63	69600	10.00	ug/L	0.00
41) Chlorobenzene d5 IS#3	9.77	119	99671	10.00	ug/L	0.00
System Monitoring Compounds						
23) 1,2-dichloroethane d4 SMC	7.13	65	75816	8.56	ug/L	0.00
Spiked Amount 10.000	Range 75 - 125		Recovery = 85.60%			
33) Toluene d8 SMC#2	8.77	98	441005	11.42	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 114.20%			
51) Bromofluorobenzene SMC#3	10.49	95	143215	9.62	ug/L	0.00
Spiked Amount 10.000	Range 80 - 120		Recovery = 96.20%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.87	85	466729	23.30	ug/L	98
3) Chlorodifluoromethane	1.89	51	385507	25.44	ug/L	91
4) Chloromethane	2.07	50	253739	26.58	ug/L	99
5) Vinyl chloride	2.21	62	327637	26.28	ug/L	99
6) Bromomethane	2.60	94	271339	25.14	ug/L	98
7) Chloroethane	2.74	64	245855	28.95	ug/L	100
8) Dichlorofluoromethane	3.02	67	612881	25.25	ug/L	99
9) Trichlorofluoromethane	3.07	101	596975	21.37	ug/L	98
10) 1,1,2-Trichloro-1,2,2-trif	3.76	101	315117	24.62	ug/L	99
11) 1,1-Dichloroethene	3.74	61	448837	25.30	ug/L	95
12) Methylene chloride	4.38	84	282468	28.19	ug/L	98
13) MTBE	4.73	73	394617	26.46	ug/L	96
14) T-1,2-dichloroethene	4.73	96	350295	26.93	ug/L	97
15) 1,1-Dichloroethane	5.31	63	527103	25.45	ug/L	99
16) 2,2-Dichloropropane	6.14	77	470592	24.54	ug/L	87
17) Cis-1,2-dichloroethene	6.12	96	352532	27.43	ug/L	97
18) Bromochloromethane	6.43	128	108414	26.37	ug/L	92
19) Chloroform	6.57	83	538165	23.51	ug/L	98
20) 1,1,1-Trichloroethane	6.76	97	533705	22.63	ug/L	94
21) 1,1-Dichloropropene	6.95	75	431585	24.72	ug/L	98
22) Carbon tetrachloride	6.94	119	388856	24.97	ug/L	99
24) 1,2-Dichloroethane	7.20	62	243542	22.85	ug/L	97
25) Benzene	7.16	78	1209888	26.84	ug/L	98
27) Trichloroethene	7.78	130	346539	26.60	ug/L	96
28) 1,2-Dichloropropane	8.01	63	241541	29.99	ug/L	88
29) Dibromomethane	8.08	93	102016	26.64	ug/L	99
30) Bromodichloromethane	8.22	83	295602	26.96	ug/L	99
31) 2-ceve	8.44	63	172192	82.50	ug/L	99
32) Cis-1,3-dichloropropene	8.57	75	352487	30.69	ug/L	99
34) Toluene	8.82	92	801384	28.02	ug/L	95
35) Trans-1,3-dichloropropene	8.98	75	246605	29.36	ug/L	97
36) 1,1,2-Trichloroethane	9.12	97	143399	28.23	ug/L	96
37) Tetrachloroethene (PCE)	9.19	166	397634	27.90	ug/L	97
38) 1,3-Dichloropropane	9.24	76	233975	27.83	ug/L	100
39) Dibromochloromethane	9.39	129	161437	27.29	ug/L	98
40) 1,2-Dibromoethane	9.47	107	127019	28.54	ug/L	99
42) Chlorobenzene	9.78	112	766281	24.53	ug/L	94
43) 1,1,1,2-Tetrachloroethane	9.84	131	236867	24.33	ug/L	98
44) Ethylbenzene	9.84	106	469222	25.11	ug/L	84
45) P+m-Xylene	9.92	106	1094598	51.14	ug/L	87
46) O-Xylene	10.16	106	527439	26.14	ug/L	94
47) Styrene	10.17	104	796838	26.82	ug/L	93
48) Bromoform	10.30	173	71991	23.90	ug/L	98
49) Isopropylbenzene	10.37	105	1414158	23.85	ug/L	93
50) 1,1,2,2-Tetrachloroethane	10.55	83	130719	26.90	ug/L	98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC21.D Vial: 21
Acq On : 23 Dec 2021 12:44 pm Operator: MGC
Sample : B128095-BSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:38 2021 Quant Results File: 82605C.RES

Quant Method : C:\HPCHEM\1...\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration
DataAcq Meth : 82605

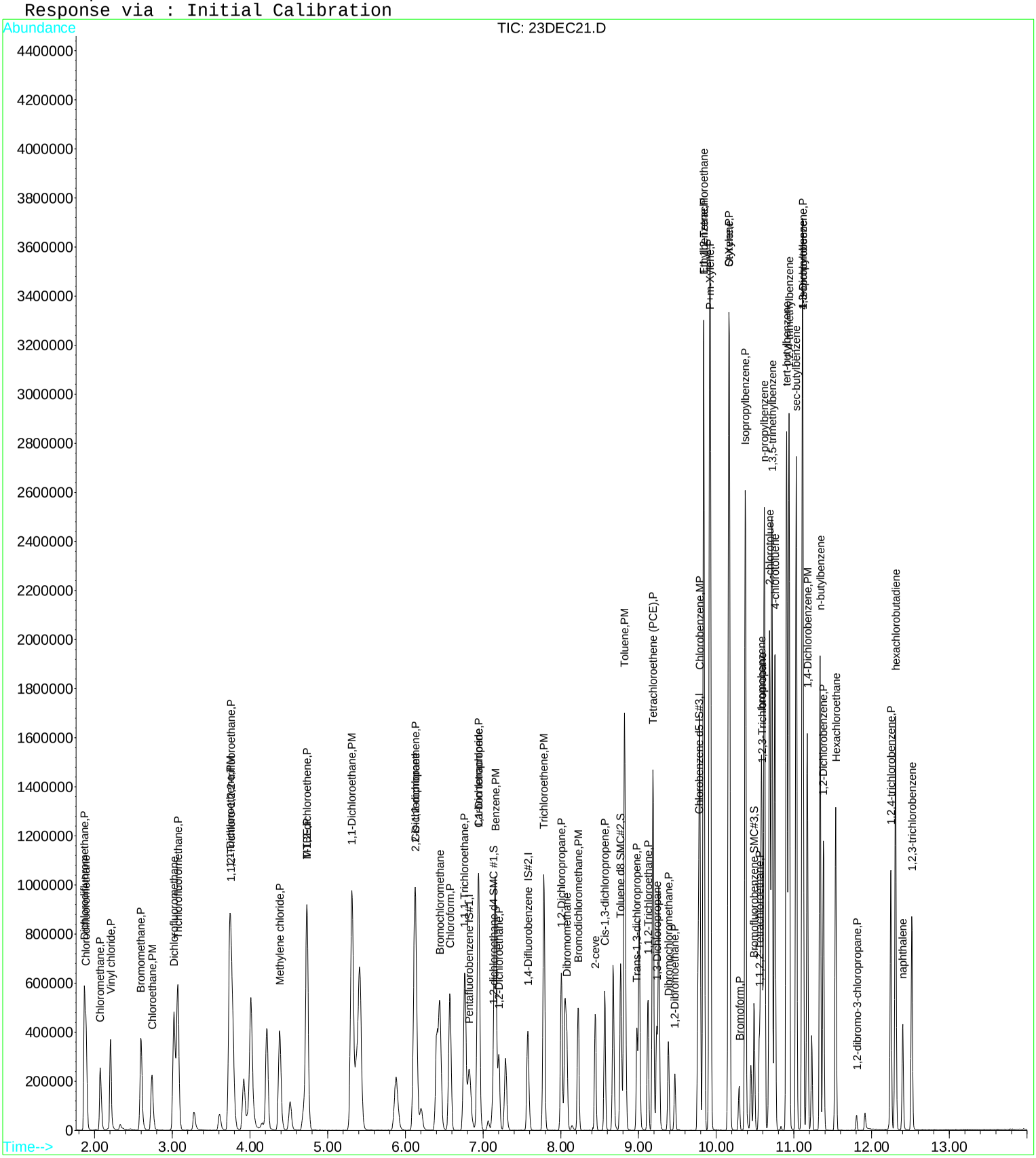
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
52)	1,2,3-Trichloropropane	10.59	110	37947	25.07	ug/L	95
53)	n-propylbenzene	10.62	91	1587453	23.85	ug/L	91
54)	bromobenzene	10.58	156	324661	24.56	ug/L	95
55)	1,3,5-trimethylbenzene	10.72	105	1109565	24.25	ug/L	96
56)	2-chlorotoluene	10.69	91	1101591	23.22	ug/L	100
57)	4-chlorotoluene	10.76	91	971924	23.21	ug/L	98
58)	tert-butylbenzene	10.91	119	1273763	25.27	ug/L	87
59)	1,2,4-trimethylbenzene	10.94	105	1016877	24.29	ug/L	97
60)	sec-butylbenzene	11.03	105	1425556	23.53	ug/L	92
61)	4-isopropyltoluene	11.11	119	1159149	24.16	ug/L	90
62)	1,3-Dichlorobenzene	11.12	146	585672	22.28	ug/L	94
63)	1,4-Dichlorobenzene	11.17	146	575431	23.32	ug/L	95
64)	n-butylbenzene	11.34	91	811832	20.06	ug/L	94
65)	1,2-Dichlorobenzene	11.38	146	410383	19.11	ug/L	97
66)	Hexachloroethane	11.54	117	140306	21.98	ug/L	96
67)	1,2-dibromo-3-chloropropan	11.80	75	14339	18.67	ug/L	92
68)	1,2,4-trichlorobenzene	12.25	180	288246	25.93	ug/L	99
69)	hexachlorobutadiene	12.31	225	284225	24.67	ug/L	98
70)	naphthalene	12.40	128	283965	25.81	ug/L	100
71)	1,2,3-trichlorobenzene	12.52	180	236189	24.11	ug/L	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC21.D Vial: 21
Acq On : 23 Dec 2021 12:44 pm Operator: MGC
Sample : B128095-BSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:38 2021 Quant Results File: 82605C.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-0847\82605C.M (RTE Integrator)
Title : EPA Method 8260C
Last Update : Thu Dec 23 07:04:37 2021
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : D:\DATA\DEC2021\DEC23\23DEC21.D Vial: 21
Acq On : 23 Dec 2021 12:44 pm Operator: MGC
Sample : B128095-BSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:39 2021 Quant Results File: 82605CX.RES

Quant Method : C:\HPCHEM\1...\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration
DataAcq Meth : 82605

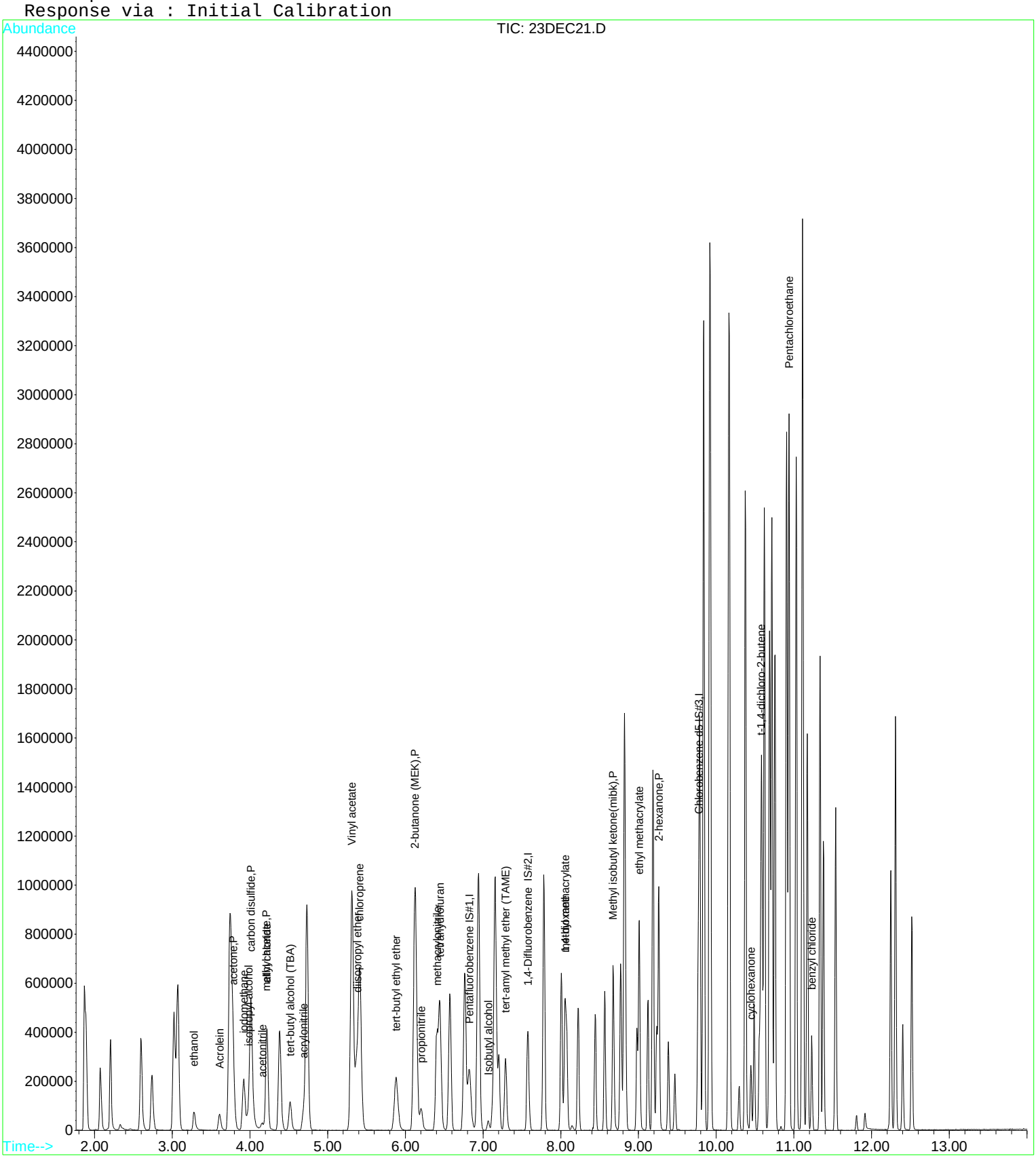
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Pentafluorobenzene IS#1	6.82	137	46917	10.00	ug/L		0.01
29) 1,4-Difluorobenzene IS#2	7.57	63	69600	10.00	ug/L		0.00
36) Chlorobenzene d5 IS#3	9.77	119	99671	10.00	ug/L		0.00
Target Compounds							Qvalue
2) ethanol	3.28	45	97747	5348.15	ug/L	#	49
6) isopropyl alcohol	3.98	45	93876	986.37	ug/L	#	46
7) Acrolein	3.61	56	84018	373.96	ug/L	#	43
8) acetone	3.79	43	217036	328.09	ug/L		89
9) tert-butyl alcohol (TBA)	4.52	59	170132	858.73	ug/L		100
10) acetonitrile	4.16	41	42975	232.73	ug/L	#	42
11) methyl acetate	4.21	43	8844	5.76	ug/L		88
12) allyl chloride	4.22	41	496836	39.88	ug/L		98
13) iodomethane	3.92	142	348120	20.96	ug/L		95
14) acrylonitrile	4.69	53	84094	109.67	ug/L	#	71
15) carbon disulfide	4.01	76	1094949	34.74	ug/L		99
17) diisopropyl ether	5.38	87	149109	19.04	ug/L		68
18) Vinyl acetate	5.32	43	1281144	212.29	ug/L		96
19) chloroprene	5.41	53	546385	34.15	ug/L		90
20) tert-butyl ethyl ether	5.88	59	315539	16.98	ug/L		96
21) 2-butanone (MEK)	6.12	43	174881	185.17	ug/L	#	79
22) propionitrile	6.20	54	138547	482.82	ug/L	#	85
23) Isobutyl alcohol	7.07	43	28405	522.76	ug/L	#	84
24) methacrylonitrile	6.40	67	236374	188.69	ug/L		80
26) tetrahydrofuran	6.45	42	225365	407.73	ug/L		90
28) tert-amyl methyl ether (TA	7.29	73	257060	15.96	ug/L		92
30) methyl methacrylate	8.05	69	206836	94.91	ug/L		97
32) 1,4-dioxane	8.06	88	59619	2210.41	ug/L	#	76
33) Methyl isobutyl ketone(mib	8.67	43	381595	189.47	ug/L		91
34) ethyl methacrylate	9.01	69	461815	93.86	ug/L		95
35) 2-hexanone	9.26	43	509520	369.99	ug/L		91
38) cyclohexanone	10.45	55	88965	423.12	ug/L		88
39) t-1,4-dichloro-2-butene	10.57	75	134850m	132.84	ug/L		
41) Pentachloroethane	10.94	167	94209	34.62	ug/L	#	64
42) benzyl chloride	11.23	91	234684	38.81	ug/L		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report

Data File : D:\DATA\DEC2021\DEC23\23DEC21.D Vial: 21
Acq On : 23 Dec 2021 12:44 pm Operator: MGC
Sample : B128095-BSD1 Inst : MS-V5
Misc : 1 ;1L12077;25ML Multiplr: 1.00
MS Integration Params: rteint.p
Quant Time: Dec 27 5:39 2021 Quant Results File: 82605CX.RES

Method : C:\HPCHEM\1\METHODS\C\202112\12-1402\82605CX.M (RTE Integrator)
Title : EPA Method 8260CX
Last Update : Thu Dec 23 07:26:27 2021
Response via : Initial Calibration



Raw Data - Batch Information

PREPARATION BENCH SHEET

B128095

BC Laboratories

Printed: 1/7/2022 10:25:53AM

Matrix: Water | Prepared using: Volatiles - GC/MS - EPA 5030 Water MS | SurrogateUsed: 1L01009

Lab Number	Analysis	Prepared	By	Initial (ml)	Final (ml)	Spike ID	Source ID	ul Spike	ul Surrogate	% Solids
2138401-07 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM		25	25				2	
2139227-01 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-02 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-03 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-04 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-05 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-06 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-07 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-08 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-09 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-10 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-11 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-12 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
2139227-13 A	gm8260Cw Full QC Navy	12/23/2021 5:00AM	MGC	25	25				2	
B128095-BLK1	QC	12/23/2021 5:00AM	MGC	25	25				2	
B128095-BS1	QC	12/23/2021 5:00AM	MGC	25	25	1L12077		12.5	2	
B128095-BSD1	QC	12/23/2021 5:00AM	MGC	25	25	1L12077		12.5	2	
B128095-MS1	QC	12/23/2021 5:00AM	MGC	25	25	1L12077	2138401-07	12.5	2	
B128095-MSD1	QC	12/23/2021 5:00AM	MGC	25	25	1L12077	2138401-07	12.5	2	

Surrogate Mixes	Description	Solvent	Prepared	Expires
1L01009	8260 V5 WORK SURR. STD BATCH	Methanol VRL-17-6704	12/1/2021 by Miguel Chavez	3/1/2022
1L12077	8260 V5 I SPIKE COMBO	meoh	12/12/2021 by Miguel Chavez	3/12/2022

Raw Data - Sequence Information

ANALYSIS SEQUENCE

2125965

Instrument: MS-V5
Calibration ID: 2112015 Sequence Date: 12/23/2021 Printed: 1/7/2022 10:25:53AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
2125965-ICV1	QC		1		1L12067		
2125965-ICB1	QC		2		1L01015		
2125965-ICV2	QC		3		1L12075		
2125965-ICB2	QC		4		1L01015		
2125965-TUN1	QC		5		1I29003		
2125965-CCV1	QC		6		1L12076		
2125965-CCV2	QC		7		1L13001		
2125965-CCB1	QC		8		1L01015		
B128095-BLK1	QC		9			1L01008	
2139227-01	gm8260Cw Full QC Navy	A	10			1L01008	
2139227-03	gm8260Cw Full QC Navy	A	11			1L01008	
2139227-04	gm8260Cw Full QC Navy	A	12			1L01008	
2139227-06	gm8260Cw Full QC Navy	A	13			1L01008	
2139227-07	gm8260Cw Full QC Navy	A	14			1L01008	
2139227-08	gm8260Cw Full QC Navy	A	15			1L01008	
2139227-09	gm8260Cw Full QC Navy	A	16			1L01008	
2139227-11	gm8260Cw Full QC Navy	A	17			1L01008	
2139227-12	gm8260Cw Full QC Navy	A	18			1L01008	
B128095-BS1	QC		19			1L01008	
B128095-BSD1	QC		20			1L01008	
B128095-MS1	QC		21			1L01008	
B128095-MSD1	QC		22			1L01008	
2138401-07	gm8260Cw Full QC Navy	A	23			1L01008	
2139227-02	gm8260Cw Full QC Navy	A	24			1L01008	
2139227-10	gm8260Cw Full QC Navy	A	25			1L01008	
2139227-13	gm8260Cw Full QC Navy	A	26			1L01008	
2139227-05	gm8260Cw Full QC Navy	A	27			1L01008	
2125965-TUN2	QC		28		1I29003		
2125965-CCV3	QC		29		1L12076		
2125965-CCV4	QC		30		1L13001		
2125965-CCB2	QC		31		1L01015		

ANALYSIS SEQUENCE

2125971

Instrument: MS-V5
Calibration ID: 2112015 Sequence Date: 12/12/2021 Printed: 1/7/2022 10:25:53AM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Comments
2125971-TUN1	QC		1		1I29003		
2125971-CAL1	QC		2		1L12061		
2125971-CAL2	QC		3		1L12062		
2125971-CAL3	QC		4		1L12063		
2125971-CAL4	QC		5		1L12064		
2125971-CAL5	QC		6		1L12065		
2125971-CAL6	QC		7		1L12066		
2125971-CAL7	QC		8		1L12068		
2125971-CAL8	QC		9		1L12070		
2125971-CAL9	QC		10		1L12071		
2125971-CALA	QC		11		1L12072		
2125971-CALB	QC		12		1L12073		
2125971-CALC	QC		13		1L12074		

Ahtna Global, LLC
110 W. 38th Ave, Suite 200A
Anchorage, ALASKA 99503

Reported: 1/7/2022 10:25:53AM
Project: Lompoc PDB Groundwater
Project Number: 21044.006.01.000
Project Manager: Jessica Feduck

Notes and Definitions

B	Blank contamination. The analyte is greater than 1/2 the PQL/LOQ/CRQL in the associated method blank.
D	The reported value is from a dilution.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration.
J	The reported value is an estimated value. Results are between the MDL and PQL/LOQ/CRQL.
U	The analyte was not detected and is reported as less than the LOD/MDL or as defined by the client.

Attachment 2. Data Validation Report

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

AHTNA
2255 Contra Costa Blvd , Suite 312
Pleasant Hill, CA 94523
ATTN: Teri Farrell-Bage
tbage@ahtna.net

February 7, 2022

SUBJECT: USDB Lompoc - Data Validation

Dear Ms. Bage,

Enclosed is the final validation report for the fractions listed below. This SDG was received on January 10, 2022. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #53148:

SDG #	Fraction
2139227	Volatiles

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

- Quality Assurance Project Plan/Work Plan, Enviornmental Long-Term Monitoring and Inspection, Former U.S. Disciplinary Barracks, Lompoc, California (November 2021)
- U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Enviornmental Laboratories, Version 5.3 (2019)
- U.S. DoD General Validation Guidelines (November 2019)
- U.S. Department of Defense (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
Project Manager/Senior Chemist
pgeng@lab-data.com

49 pages-ADV

Attachment 1

ADR/Stage 4 10/90

LDC# 53148 (AHTNA - Pleasant Hill, CA / USDB Lompoc)

LDC	SDG#	DATE REC'D	(2) DATE DUE	VOA (8260C)																																			
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	W	S
A	2139227	01/10/22	01/24/22	11	0																																		
A	2139227	01/10/22	01/24/22	2	0																																		
Total	T/PG			13	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	0	0	13

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\Lompoc USDB\53148ST.wpd

LDC Report# 53148

Automated Data Review Data Validation Report
USDB Lompoc

Sample Delivery Group(s)

2139227

February 7, 2022

Introduction

This Data Validation Report (DVR) presents data validation findings and results for the associated samples collected during the December 2021 sampling period. Data validation was performed in accordance with the Quality Assurance Project Plan/Work Plan, Environmental Long-Term Monitoring and Inspection, Former U.S. Disciplinary Barracks, Lompoc, California (November 2021), the U.S. Department of Defense (DoD) Quality Systems Manual (QSM) for Environmental Laboratories, Version 5.3 (2019), U.S. DoD General Validation Guidelines (November 2019), and the U.S. Department of Defense (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 8260C

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.

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

J+ (Estimated, High Bias): The result was an estimated quantity, but the result may be biased high.

J- (Estimated, Low Bias): The result was an estimated quantity, but the result may be biased low.

J (Estimated, Bias Indeterminate): The reported result was an estimated value with an unknown bias.

U (Non-detected): The analyte was analyzed for and positively identified by the laboratory; however the analyte should be considered non-detected due to the presence of contaminants detected in the associated blank(s).

UJ (Non-detected estimated): The analyte was not detected and the associated numerical value is approximate.

X (Exclusion of data recommended): 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. 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.

A qualification summary table is provided at the end of this report if data has been qualified. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from a specified protocol or is of technical advisory nature.

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.

The percent relative standard deviations (%RSD) were less than or equal to 15.0% for all analytes.

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	A or P
2139227	12/23/21	Bromomethane 1,2-Dichlorobenzene	49.3 29.9	All samples in SDG 2139227	UJ (all non-detects)	A

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

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

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. The field blank had detections for toluene. The associated sample results were qualified as non-detected (U) due to field blank contamination as applicable. The sample results that were not detected or were significantly greater than the concentrations found in the field blank were not qualified. The field blank outlier reports are presented in Enclosure I.

Surrogate Spikes

Surrogates were added to all samples and blanks 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) and laboratory control sample duplicates (LCSD) were analyzed as required by the method. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits with the exception of one LCS/LCSD pair for 1,2-dichlorobenzene. The associated sample results were qualified as non-detected estimated (UJ). No data were qualified due to high RPDs since the associated results were non-detected. The details regarding the qualification of data are presented in Enclosure I.

Field Duplicates

One field duplicate pair was collected and analyzed. All RPDs and absolute differences were within QC limits. The field duplicate results 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 presented 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.

Overall Assessment of Data

The analysis was conducted within all specifications of the method.

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

Due to LCS/LCSD %R, data were qualified as estimated in thirteen samples.

Due to results below the LOQ, data were qualified as estimated in eleven samples.

Due to field blank contamination, data were qualified as not detected in eight 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
16-Dec-2021	WRMW01B1-121621-N	2139227-01	N	5030	8260C	Stage 4
16-Dec-2021	WRMW01B2-121621-N	2139227-02	N	5030	8260C	Stage 4
16-Dec-2021	WRMW01B3-121621-N	2139227-03	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW04A-121621-N	2139227-04	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW05A-121621-N	2139227-05	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW08A-121621-N	2139227-06	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW09A-121621-N	2139227-07	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW10A-121621-N	2139227-08	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW11A-121621-N	2139227-09	N	5030	8260C	Stage 2B
16-Dec-2021	WRMW12A-121621-N	2139227-10	N	5030	8260C	Stage 2B
16-Dec-2021	FB-121621	2139227-11	FB	5030	8260C	Stage 2B
16-Dec-2021	TB-121621	2139227-12	TB	5030	8260C	Stage 2B
16-Dec-2021	WRMW08A-121621-D	2139227-13	FD	5030	8260C	Stage 2B

N = Normal Sample
FD = Field Duplicate
TB = Trip Blank
MS = Matrix Spike
MSD = Matrix Spike Duplicate
EB = Equipment Blank
DUP = Laboratory Duplicate
FB = Field Blank
AB = Ambient Blank

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method Category: VOA

Method: 8260C **Matrix:** AQ

Sample ID: FB-121621 **Collected:** 12/16/2021 10:10:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.10	J	0.16	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: TB-121621 **Collected:** 12/16/2021 12:30:00 PM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv

Sample ID: WRMW01B1-121621-N **Collected:** 12/16/2021 10:50:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BENZENE	0.16	J	0.16	LOD	0.50	LOQ	ug/L	J	RI
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.16	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb

Sample ID: WRMW01B2-121621-N **Collected:** 12/16/2021 10:52:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BENZENE	0.13	J	0.16	LOD	0.50	LOQ	ug/L	J	RI
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.17	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb

Sample ID: WRMW01B3-121621-N **Collected:** 12/16/2021 10:55:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BENZENE	0.27	J	0.16	LOD	0.50	LOQ	ug/L	J	RI
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.20	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb

* denotes a non-reportable result

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Data Qualifier Summary

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method Category: VOA

Method: 8260C **Matrix:** AQ

Sample ID: WRMW04A-121621-N **Collected:** 12/16/2021 8:14:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.10	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb

Sample ID: WRMW05A-121621-N **Collected:** 12/16/2021 9:45:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.16	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb
TRANS-1,2-DICHLOROETHENE	0.11	J	0.16	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: WRMW08A-121621-D **Collected:** 12/16/2021 10:25:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TETRACHLOROETHENE	0.12	J	0.30	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: WRMW08A-121621-N **Collected:** 12/16/2021 10:20:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TETRACHLOROETHENE	0.14	J	0.30	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: WRMW09A-121621-N **Collected:** 12/16/2021 11:15:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TETRACHLOROETHENE	0.12	J	0.30	LOD	0.50	LOQ	ug/L	J	RI
TOLUENE	0.080	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb
TRICHLOROETHENE	0.17	J	0.16	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Data Qualifier Summary

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method Category: VOA

Method: 8260C **Matrix:** AQ

Sample ID: WRMW10A-121621-N **Collected:** 12/16/2021 8:55:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BENZENE	0.080	J	0.16	LOD	0.50	LOQ	ug/L	J	RI
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TOLUENE	0.13	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb

Sample ID: WRMW11A-121621-N **Collected:** 12/16/2021 9:15:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TRICHLOROETHENE	0.10	J	0.16	LOD	0.50	LOQ	ug/L	J	RI

Sample ID: WRMW12A-121621-N **Collected:** 12/16/2021 9:30:00 AM **Analysis Type:** RES **Dilution:** 1

Analyte	Lab Result	Lab Qual	DL	DL Type	RL	RL Type	Units	Data Review Qual	Reason Code
1,2-DICHLOROBENZENE	0.16	U	0.16	LOD	0.50	LOQ	ug/L	UJ	Lcs, Ccv
BROMOMETHANE	0.40	U	0.40	LOD	0.60	LOQ	ug/L	UJ	Ccv
TETRACHLOROETHENE	0.34	J	0.30	LOD	0.50	LOQ	ug/L	J	RI
TOLUENE	0.14	J	0.16	LOD	0.50	LOQ	ug/L	U	Fb
TRICHLOROETHENE	0.42	J	0.16	LOD	0.50	LOQ	ug/L	J	RI

* denotes a non-reportable result

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Data Qualifier Summary

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Reason Code Legend

Reason Code	*Description*
Ccv	Continuing Calibration Verification Percent Difference Lower Estimation
Fb	Field Blank Contamination
Lcs	Laboratory Control Precision
Lcs	Laboratory Control Spike Lower Estimation
Rl	Reporting Limit Trace Value
Surr	Surrogate/Tracer Recovery Upper Estimation

* denotes a non-reportable result

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

2139227

Field Blank Outlier Report

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method: **8260C**
Matrix: **AQ**

Field Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
FB-121621(RES)	12/16/2021 10:10:00 AM	TOLUENE	0.1 ug/L	WRMW01B1-121621-N WRMW01B2-121621-N WRMW01B3-121621-N WRMW04A-121621-N WRMW05A-121621-N WRMW08A-121621-D WRMW08A-121621-N WRMW09A-121621-N WRMW10A-121621-N WRMW11A-121621-N WRMW12A-121621-N

The following samples and their listed target analytes were qualified due to contamination reported in this blank

Sample ID	Analyte	Reported Result	Modified Final Result
WRMW01B1-121621-N(RES)	TOLUENE	0.16 ug/L	0.16U ug/L
WRMW01B2-121621-N(RES)	TOLUENE	0.17 ug/L	0.17U ug/L
WRMW01B3-121621-N(RES)	TOLUENE	0.20 ug/L	0.20U ug/L
WRMW04A-121621-N(RES)	TOLUENE	0.10 ug/L	0.10U ug/L
WRMW05A-121621-N(RES)	TOLUENE	0.16 ug/L	0.16U ug/L
WRMW09A-121621-N(RES)	TOLUENE	0.080 ug/L	0.080U ug/L
WRMW10A-121621-N(RES)	TOLUENE	0.13 ug/L	0.13U ug/L
WRMW12A-121621-N(RES)	TOLUENE	0.14 ug/L	0.14U ug/L

Lab Control Spike/Lab Control Spike Duplicate Outlier Report

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method: **8260C**
Matrix: **AQ**

QC Sample ID (Associated Samples)	*Compound*	*LCS %R*	*LCSD %R*	*%R Limits*	*RPD (Limits)*	*Affected Compounds*	*Flag*
B128095-BSD1 (FB-121621 TB-121621 WRMW01B1-121621-N WRMW01B2-121621-N WRMW01B3-121621-N WRMW04A-121621-N WRMW05A-121621-N WRMW08A-121621-D WRMW08A-121621-N WRMW09A-121621-N WRMW10A-121621-N WRMW11A-121621-N WRMW12A-121621-N)	1,2-DICHLOROBENZENE	-	76.4	80.00-119.00	27.1 (20.00)	1,2-DICHLOROBENZENE	J (all detects) UJ (all non-detects)

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Field Duplicate RPD Report

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method: 8260C
Matrix: AQ

Analyte	*Concentration (ug/L)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	WRMW08A-121621-N	**WRMW08A-121621-D**			
TETRACHLOROETHENE	0.14	0.12	15	30.00	No Qualifiers Applied

Project Name and Number: 21044.006.01.000 - Lompoc PDB Groundwater

Reporting Limit Outliers

Lab Reporting Batch ID: 2139227 **Laboratory: BC Labs**

EDD Filename: rev1EDD_2139227_ADR_ **eQAPP Name: AHTNA_Lompoc_211124**

Method: **8260C**

Matrix: **AQ**

SampleID	*Analyte*	*Lab Qual*	*Result*	*Reporting Limit*	*RL Type*	*Units*	*Flag*
FB-121621	TOLUENE	J	0.10	0.50	LOQ	ug/L	J (all detects)
WRMW01B1-121621-N	BENZENE TOLUENE	J J	0.16 0.16	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
WRMW01B2-121621-N	BENZENE TOLUENE	J J	0.13 0.17	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
WRMW01B3-121621-N	BENZENE TOLUENE	J J	0.27 0.20	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
WRMW04A-121621-N	TOLUENE	J	0.10	0.50	LOQ	ug/L	J (all detects)
WRMW05A-121621-N	TOLUENE TRANS-1,2-DICHLOROETHENE	J J	0.16 0.11	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
WRMW08A-121621-D	TETRACHLOROETHENE	J	0.12	0.50	LOQ	ug/L	J (all detects)
WRMW08A-121621-N	TETRACHLOROETHENE	J	0.14	0.50	LOQ	ug/L	J (all detects)
WRMW09A-121621-N	TETRACHLOROETHENE TOLUENE TRICHLOROETHENE	J J J	0.12 0.080 0.17	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)
WRMW10A-121621-N	BENZENE TOLUENE	J J	0.080 0.13	0.50 0.50	LOQ LOQ	ug/L ug/L	J (all detects)
WRMW11A-121621-N	TRICHLOROETHENE	J	0.10	0.50	LOQ	ug/L	J (all detects)
WRMW12A-121621-N	TETRACHLOROETHENE TOLUENE TRICHLOROETHENE	J J J	0.34 0.14 0.42	0.50 0.50 0.50	LOQ LOQ LOQ	ug/L ug/L ug/L	J (all detects)

LDC #: 53148A1a **VALIDATION COMPLETENESS WORKSHEET** Date: 1/5/22
SDG #: 2139227 ADR/stage 4 Page: 1 of 1
Laboratory: BC Laboratories, Inc., Bakersfield, CA Reviewer: CT
2nd Reviewer: KK

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

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 ICV ≤ 20%
IV.	Continuing calibration (ending)	SW	CCV ≤ 20/50%
V.	Laboratory Blanks	N	Not reviewed for ADR validation
VI.	Field blanks	SW	FB=11. FB=12 - ADR
VII.	Surrogate spikes	A	Not reviewed for ADR validation
VIII.	Matrix spike/Matrix spike duplicates	N	Not reviewed for ADR validation CS
IX.	Laboratory control samples	SW N	Not reviewed for ADR validation LCS/D - ADR
X.	Field duplicates	SW	D=6+13 - ADR
XI.	Internal standards	A	
XII.	Target analyte quantitation	A	Not reviewed for ADR validation
XIII.	Target analyte identification	A	Not reviewed for ADR validation
XIV.	System performance	A	Not reviewed for ADR validation
XV.	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	WRMW01B1-121621-N **	2139227-01 **	Water	12/16/21
2	WRMW01B2-121621-N **	2139227-02 **	Water	12/16/21
3	WRMW01B3-121621-N	2139227-03	Water	12/16/21
4	WRMW04A-121621-N	2139227-04	Water	12/16/21
5	WRMW05A-121621-N	2139227-05	Water	12/16/21
6	WRMW08A-121621-N	2139227-06	Water	12/16/21
7	WRMW09A-121621-N	2139227-07	Water	12/16/21
8	WRMW10A-121621-N	2139227-08	Water	12/16/21
9	WRMW11A-121621-N	2139227-09	Water	12/16/21
10	WRMW12A-121621-N	2139227-10	Water	12/16/21
11	FB-121621	2139227-11	Water	12/16/21
12	TB-121621	2139227-12	Water	12/16/21
13	WRMW08A-121621-D	2139227-13	Water	12/16/21
14	8128095			

LDC #: 53488A1a

VALIDATION FINDINGS CHECKLIST

Method: Volatiles (EPA SW 846 Method 8260C)

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?	✓			
III. Initial calibration and Initial Calibration Verification				
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) 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?	✓			
Was an initial calibration verification (ICV) standard analyzed after each initial calibration for each instrument?	✓			
Were all ICV percent differences (%D) ≤ 30%?	✓			
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?		✓		
VI. Field blanks				
Were field blanks were identified in this SDG?	✓			
Were target compounds 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?	.	✓		

Validation Area	Yes	No	NA	Findings/Comments
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
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 compounds 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. Compound 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 compound?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XIII. Target compound identification				
Were relative retention times (RRT's) within ± 0.06 RRT units of the standard?	✓			
Did compound spectra meet specified EPA "Functional Guidelines" criteria?	✓			
Were chromatogram peaks verified and accounted for?	✓			
XIV. System performance				
System performance was found to be acceptable.	✓			
XV. 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 choride	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. Methyl cyclohexane	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.
Z. 2-Hexanone	ZZ. 2-Chlorotoluene	ZZZ. tert-Butyl alcohol	ZZZZ. Pentachloroethane	Z1.

LDC #: 53148A1a

VALIDATION FINDINGS WORKSHEET
Continuing Calibration

Page: 1 of 1
Reviewer: [illegible]

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

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) and relative response factors (RRF) within method criteria for all CCC's and SPCC's ?
Y (N) N/A Were all %D and RRFs within the validation criteria of ≤20 %D and ≥0.05 RRF ?

#	Date	Standard ID	Compound	Finding %D (Limit: ≤20.0%)	Finding RRF (Limit: ≥0.05)	Associated Samples	Qualifications
	12/23/01	23DEC02	B	49.3		All (ND)	J/UJ/A
			HH	29.9			↓

CONCAL.1SB

LDC #: 53408A19

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: 9

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

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	12/2/21	V (1st internal standard)	9.2734=9	9.2734=9	9.60T888	9.60T888	5.T13315	5.T133
			CC (2nd internal standard)	4.065364	4.065364	4.108TT5	4.108TT5	4.53158	4.5316
			EE (3rd internal standard)	1.85TT33	1.85TT23	1.8T4882	1.8T4882	1.814619	1.8146
			(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 #: 53148A19

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Page: 1 of 1
Reviewer: CA

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

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	23DEC02	12/23/21	V (1st internal standard)	9.60T888	10.T0688	10.T0688	11.4	11.4
			CC (2nd internal standard)	4.108T15	4.328295	4.328295	5.3	5.3
			ZZ (3rd internal standard)	1.8T4882	1.T62126	1.T62126	6.0	6.0
			(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 #: 53148A19

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: Q

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

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					
1,2-Dichloroethane-d4	10.0	8.29	82.9	82.9	
Toluene-d8	↓	10.98	110	110	
Bromofluorobenzene	↓	8.82	88.2	88.2	

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 #: 53148A19

VALIDATION FINDINGS WORKSHEET
Laboratory Control Sample Results Verification

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

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 = Laboraotry control sample concentration LCSDC = Laboratory control sample duplicate concentration

LCS ID: B18095-BS1

Compound	Spike Added (µg/L)		Spiked Sample Concentration (µg/L)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalculated
1,1-Dichloroethene	25.00	25.00	26.97	25.30	108	108	101	101	6.39	6.39
Trichloroethene	↓	↓	26.45	26.60	106	106	106	106	0.566	0.566
Benzene			28.01	26.84	112	112	107	107	4.27	4.27
Toluene			27.92	28.02	112	112	112	112	0.358	0.358
Chlorobenzene			24.57	24.53	98.7	98.7	98.1	98.1	0.569	0.569

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 #: 53418A1a

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: Q

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

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. 1, √:

Conc. = (7104)(10.0)(1) / (45691)(9.60T888)( )( )

= 0.1614

#	Sample ID	Compound	Reported Concentration (µg/L)	Calculated Concentration ( )	Qualification
	1	√	0.16		