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April 15, 2025

File: 195601412

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Division of Environmental Remediation – Region 2
New York State Department of Environmental Conservation
Hunters Point Plaza
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Long Island City, NY 11101-5401

**Reference: 2024 Annual Sub-Slab Depressurization System OM&M Report
Belle Harbor Shopping Center, 112-15 Beach Channel Drive, Far Rockaway, NY
NYSDEC BCP Site # C241048**

Dear Mr. Ahmed:

Stantec Consulting Services Inc. (Stantec) is pleased to submit this report on the operation, maintenance, and monitoring (OM&M) inspection of the sub-slab depressurization system (SSDS) within the Sofia's Nail Salon (former Bell Boy Dry Cleaner) lease unit (i.e., the "subject lease unit" or "subject unit") located at 112-15 Beach Channel Drive in the Far Rockaway section of Queens, New York (the "Site", see Figure 1). This work was conducted in accordance with the March 11, 2014, New York State Department of Environmental Conservation/New York State Department of Health (NYSDEC/NYSDOH) approval of an OM&M plan for an SSDS at this Site. During this event, Stantec also collected indoor air (IA) and sub slab soil gas (SSSG) samples consistent with Stantec's draft Supplemental Remedial Investigation Workplan (SRIWP) dated November 9, 2023, and subsequently revised (based on NYSDCE and NYSDOH comments) in a version dated February 13, 2025.

BACKGROUND

Stantec submitted an Interim Remedial Measures-Construction Completion Report (IRM-CCR) on behalf of the now former Great Atlantic & Pacific Tea Company, Inc. (A&P) to the NYSDCE on July 2, 2013. The IRM-CCR described remedial activities conducted within the subject unit. These activities included excavating soils impacted with chlorinated volatile organic compounds (cVOCs) and installing an SSDS in this subject unit in December 2011. The IRM-CCR was approved in a letter dated March 11, 2014. As shown on Figure 2A, the SSDS consists of slotted (20-slot) 4-inch diameter PVC piping installed below the slab that is connected to solid 4-inch diameter PVC piping that extends along the outside wall to above the roof line. A radon fan (Fantech Model FR-200) is located on the exterior piping.



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Additional activities included installing permanent SSSG points, or probes, in the two tenant units located adjacent to Sofia's Nail Salon (Ciro's Pizza to the north and a vacant unit to the south), and in the Citibank unit located on the north side of Ciro's Pizza. SSSG and indoor air quality samples were also collected from these four tenant units in March 2012, approximately three months after the impacted soils were excavated and the initial start-up of the SSDS. The IRM-CCR also described repairs to the SSDS that were conducted from January to March 2013 due to damage caused by Hurricane Sandy.

NYSDEC and NYSDOH subsequently reviewed the IRM-CCR and responded with a comment letter dated July 25, 2013. This letter, along with subsequent conversations (via email and telephone) between Stantec and NYSDOH, indicated that four additional SSSG probes were to be installed within the subject unit itself and that quantitative pressure field readings be performed on all SSSG probes to document the SSDS range of influence. The results of this work, which was conducted on October 30, 2013, were submitted to NYSDOH in an Addendum to the IRM-CCR, dated January 23, 2014.

NYSDEC and NYSDOH subsequently reviewed the Addendum to the IRM-CCR and responded with a comment letter dated March 11, 2014. This letter indicated that NYSDOH and NYSDOH accepted the IRM-CCR and recommendations, which were to conduct annual OM&M on the SSDS during the period of November 1 to March 31. The OM&M would include inspecting the SSDS, field testing the SSSG probes in each store unit to evaluate vacuum conditions, and collecting indoor air and sub-slab soil gas samples. Note that the vacant store unit mentioned above was renovated in January 2014 and is now doing business as the Liquor & Wine Warehouse.

The 2015 annual OM&M was conducted by Stantec in March 2015 and the results reported to NYSDOH on April 15, 2015. In July 2015, A&P filed for Chapter 11 bankruptcy protection. Subsequent phases of bankruptcy transactional proceedings associated with A&P, the bankruptcy court, and the property owner occurred that gave way to an auction purchase of the A&P operations by Ahold U.S.A (Ahold) of Quincy, Massachusetts. The grocery store re-opened as a Stop & Shop. Ahold and the NYSDOH subsequently entered the Site into the Brownfields Cleanup Program (BCP) on December 8, 2017. Ahold/Stop & Shop subsequently retained Stantec as the environmental professional for this Site.

Also in April 2015, GEI Consultants, Inc. (GEI) conducted a vapor intrusion (VI) investigation inside the grocery store in accordance with NYSDOH and NYSDOH requirements. GEI collected vapor intrusion samples from three sub-slab vapor points (identified as SV-101 to SV-103) and from three indoor air locations (identified as IA-101 to IA-103). The results showed that due to elevated levels of tetrachloroethene (aka, perchloroethene or PCE) in the sub-slab point at the IA-103/SV-103 location, mitigation would likely be necessary. As mentioned above, since work had not been conducted since 2015, Stantec recommended that re-sampling at the IA-103/SV-103 location be



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conducted. Unfortunately, the sub-slab soil gas point (SSGP) that GEI installed (SV-103) was removed after the initial sampling in April 2015. Therefore, re-sampling at this location required installing a permanent SSGP, which was conducted by Stantec in January 2018.

In August 2020, Stantec conducted additional VI work, in accordance with a NYSDEC approved IRM-VI Remedial Action Work Plan (RAWP). This work included installing additional sub-slab soil gas probes inside the grocery store (identified as SVP-201 and SVP-202) and in the apron in front of the store (SVP-203 and SVP-204), and installing two replacement probes (SV-101 and SV-104) inside the nail salon unit (See Figure 2).

As mentioned, the IRM-CCR called for an annual OM&M to be conducted during the period of November 1 to March 31 each year to evaluate the SSDS and to determine whether the system is operating as intended and installed. A description of the work performed, and the results of this work, which certify the work conducted from March 2023 to March 2024, are described below.

WORK PERFORMED

Prior to mobilizing to the Site, Stantec worked with Stop & Shop to notify the owners and/or managers of the five tenant spaces about the upcoming work. These units include Citibank, Ciro's Pizza, Sofia's Nail Salon, Liquor Warehouse, and Stop & Shop. On March 12, 2024, Stantec mobilized to the Site and inspected the floor within the subject unit, as well as the SSDS discharge piping, fan, and manometer.

Stantec then collected indoor air (IA) samples from inside each of the five tenant spaces. The IA samples were located at previously sampled locations and collected over 8-hours using appropriate pre-evacuated 6-liter Summa canisters. The sample locations are shown on the attached Figure 2 and are identified as follows:

<u>Unit</u>	<u>Sample ID</u>
Citibank	IA-7
Ciro's Pizza	IA-11
Sofia's Nail Salon	IAQ-1
Liquor Warehouse	IA-9
Stop & Shop	IA-201, IA-202, IA-203

One outside ambient air sample was also collected over 8-hours in the west end of the parking lot.

Over the course of the sampling activities, periodic readings of the following parameters were recorded on Air Sample Logs:





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- Cannister Pressure,
- Temperature,
- Relative Humidity,
- Photoionization Detector (PID) readings, and
- Barometric Pressure.

Copies of the Air Sample Logs are presented in Attachment 1.

On March 13, 2024, Stantec returned to the Site and recorded differential pressure readings (in-Hg) with an Infiltec DM-1 digital micro-manometer at the probe in the Citibank (SVP-6), in Ciro's Pizza (SVP-11), at the four probes in Sofia's Nail Salon (SV-101, SV-102, SV-103, and SV-104), at the two probes in the Liquor Warehouse (SVP-9 and SVP-10), at the three probes inside the Stop & Shop (SVP-103, SVP-201, and SVP-202), and at the two probes in the apron outside the Stop & Shop (SVP-203 and SVP-204).

Stantec also collected SSSG samples from select probes in the Liquor Warehouse (SVP-9), inside the Stop & Shop (SVP-103), and in the apron outside the Stop & Shop (SVP-203 and SVP-204). Each SSSG probe was leak-tested using a helium shroud technique prior to sampling. The SSSG samples were then collected over a ten-minute duration into pre-evacuated 2.7-liter Summa canisters. Before and after each SSSG sample was collected, differential pressure readings were recorded at each point using the micro-manometer to measure/evaluate cross-slab pressures. Over the course of the ten-minute sampling period, periodic canister vacuum readings were recorded on Sub-Slab Soil Vapor Sample Collection Logs. Copies of these logs are presented in Attachment 1.

A review of the readings revealed that the field conditions and sample collection procedures were acceptable and did not alter the usability of the results.

The IA and SSSG samples were collected, secured, and sent to Alpha Analytical (now Pace Analytical) laboratories in Mansfield, Massachusetts and analyzed for VOCs via Low Level TO-15 analysis in NYS Category B data deliverable format. A qualified third-party, independent reviewer from the laboratory performing the analysis then conducted data validation and prepared a Data Usability Summary Report (DUSR) for the results. The laboratory report and DUSR for the March 2024 event are included in Attachments 2 and 3, respectively.

RESULTS





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Stantec's observation of the floor within Sofia's Nail Salon indicated no holes, cracks, or other penetrations. The manometer was showing a negative pressure (vacuum), and the fan was operating. There were no holes or obstructions observed in the discharge piping. Observations at the rooftop indicated that there were no intakes (existing or new) near the discharge stack.

The differential pressure readings measured on March 13, 2024, are presented on the attached Table 1 and on Figure 2. As shown, the reading at SVP-6 in the Citibank unit was -0.0088 in-Hg. The reading at SVP-11 in the adjacent Ciro's Pizza unit was -0.0007 in-Hg. The readings at the four points within the Sofia's Nail Salon unit were -0.0056 in-Hg at SV-101, -0.0064 in-Hg at SV-102, -0.0001 in-Hg at SV-103, and -0.0002 in-Hg at SV-104. The readings in the Liquor Warehouse were -0.0010 in-Hg at SVP-9 and -0.0073 in-Hg at SVP-10. These readings are similar to previous measurements at the Site (see Table 1).

The readings at the recently installed points within the Stop & Shop were -0.0001 in-Hg at SVP-103, -0.0008 in-Hg at SVP-201, and -0.0005 in-Hg at SVP-202. The readings at the new points in the apron outside the Stop & Shop were -0.0001 in-Hg at SVP-203 and -0.0001 in-Hg at SVP-204. These readings are similar to previous measurements at the Site (see Table 1).

Results of the air samples from March 13, 2024, are presented in Table 2. As shown, concentrations of VOCs were detected in each of the SSSG, IA, and ambient air samples. The highest concentration reported was for acetone in the indoor air sample from within Sofia's Nail Salon (13,100 J micrograms per cubic meter [$\mu\text{g}/\text{m}^3$] at IAQ-1, where "J" indicates an estimated concentration). This relatively high concentration is likely due to the products (nail polish, polish remover, hair spray, etc.) being used in this business, many of which have acetone as components.

In terms of the contaminants of concern, levels of trichloroethene (TCE) were reported in sub-slab samples from the Stop and Shop (1,610 $\mu\text{g}/\text{m}^3$ in SVP-103) and in one of the two SSSG samples from the apron in front of the Stop and Shop (2.88 $\mu\text{g}/\text{m}^3$ in SVP-203). TCE was not reported above laboratory reporting limits (RLs) in the SSSG sample from the Liquor Warehouse (SVP-9) and in the second SSSG sample from the Stop and Shop apron (SVP-204). Sub-slab concentrations of PCE were reported in the samples from the Liquor Warehouse (4.86 $\mu\text{g}/\text{m}^3$ in SVP-9), the Stop and Shop (511,000 $\mu\text{g}/\text{m}^3$ in SVP-103), and from the apron in front of the Stop and Shop (19.5 $\mu\text{g}/\text{m}^3$ in SVP-203 and 354 $\mu\text{g}/\text{m}^3$ in SVP-204).

Results of the IA samples (Table 2) also show levels of VOCs in each IA sample. TCE was only reported in the sample from Citibank (0.656 $\mu\text{g}/\text{m}^3$ in IA-7). TCE was not detected in any of the other IA samples collected from Ciro's Pizza, Sofia's Nail Salon, Liquor Warehouse, and Stop & Shop.

PCE was reported at low levels in the IA samples from Citibank (0.888 $\mu\text{g}/\text{m}^3$ in IA-7), Ciro's Pizza (0.468 $\mu\text{g}/\text{m}^3$ in IA-11), Sofia's Nail Salon (0.705 $\mu\text{g}/\text{m}^3$ in IAQ-1), Liquor Warehouse (0.481 $\mu\text{g}/\text{m}^3$ in IA-



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9), and in the Stop & Shop ($2.05 \mu\text{g}/\text{m}^3$ in IA-201, $2.00 \mu\text{g}/\text{m}^3$ in IA-202, and $1.54 \mu\text{g}/\text{m}^3$ in IA-203). PCE was also reported in the ambient air sample at $2.75 \mu\text{g}/\text{m}^3$, which may be an influence on the VOC levels in the IA samples from inside the various lease units.

A Spider Map showing the results from 2020 to 2024 is presented as Figure 3. Please note that only those VOCs that have an associated NYSDOH Vapor Intrusion Matrix value and had detected concentrations are shown. For instance, although 1,1,1-trichloroethane is included in Matrix B it has always been reported as "non-detect" and so it is not shown on Figure 3. The overall data for the indoor air quality testing identified that, although the potential for vapor intrusion is present, there are no apparent significant indoor air quality impacts at the grocery store, the liquor store, the pizza restaurant, nail salon, or the bank related to cVOCs. Other volatile organic compounds exist in air and soil vapor but are not likely from the dry cleaner release. The indoor air quality within the former Bell Boy Cleaners space (currently occupied by Sofia Nails) is mitigated by the operation and performance of the SSDS. Evaluating the results in terms of the Decision Matrices indicates that, due to levels of PCE and TCE in sub-slab vapor in the grocery store (SVP-103) and the apron (SVP-203 and SVP-204), mitigation is necessary.

CONCLUSIONS AND RECOMMENDATIONS

The observations and differential pressure readings indicate that the SSDS is creating a vacuum beneath the slab at the Sofia's Nail Salon unit, which extends to the Ciro's Pizza unit and Citibank unit to the north and to the Liquor & Wine Warehouse to the south. The data also indicate the influence extends to the front portion of the Stop & Shop. Based on these data, the range of influence of the operating SSDS is estimated at approximately 50 to 75 feet.

Upon review of these results, Stantec concludes that the SSDS is operating as intended and installed.

It is recommended that annual OM&M, including indoor air and sub-slab soil gas sampling, continue during the winter heating season (November 1 to March 31).



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We trust that this information meets your needs.

Sincerely

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Tables 1 and 2
Figures 1 and 2
Attachments 1 - 3

cc: R. Ruth, Esq. Sherin Lodgen
J. Connely, Esq. Sherin Lodgen
J. Morgan, Ahold USA, Inc.
J. Salvetti, CEC, Inc.

CERTIFICATION

I, Alexander J. DeNadai, certify that I am a qualified professional engineer in the State of New York as defined in 6 NYCRR Part 375, and that this 2024 Annual Operation, Maintenance, and Monitoring of Sub-Slab Depressurization System Report was prepared in accordance with the applicable statutes and regulations and in substantial conformance with the DER Technical Guidance for Site Investigation and Remediation (DER-10).

Signature

4/15/2025

Date



TABLES

TABLE 1
 Summary of Differential Pressure Readings: Sub-Slab Soil Gas Probes: 2013 - 2024
 Belle Harbor Shopping Center
 Belle Harbor, New York

Store Location	Measuring Point Location	Date Installed	Date Measured	Measured Differential Pressure	
				(in WC)	(in-Hg)
Citibank	SVP-6	Mar 2012	10/31/2013	-0.005	-0.0004
			3/18/2014	-0.002	-0.0002
			3/31/2015	-0.008	-0.0006
			1/31/2018	-0.303	-0.0223
			8/4/2020	NM	NM
			3/31/2022	-0.209	-0.0154
			3/30/2023	-0.634	-0.0466
			3/13/2024	-0.120	-0.0088
Ciros Pizza	SVP-11	Mar 2012	10/31/2013	-2.871	-0.2110
			3/18/2014	-0.254	-0.0187
			3/31/2015	-0.222	-0.0163
			1/31/2018	-0.214	-0.0157
			8/4/2020	NM	NM
			3/31/2022	-0.194	-0.0143
			3/30/2023	-0.148	-0.0109
			3/13/2024	-0.009	-0.0007
Former Bell Boy Cleaner/ Sofias Nail Salon	SV-101	Oct 2013	10/31/2013	-0.041	-0.0030
		Aug 2020	3/18/2014	-0.041	-0.0030
			3/31/2015	-0.041	-0.0030
			1/31/2018	NM	NM
			8/4/2020	-0.800	-0.0588
			3/31/2022	-0.076	-0.0056
			3/30/2023	-0.048	-0.0035
			3/13/2024	-0.076	-0.0056
Former Bell Boy Cleaner/ Sofias Nail Salon	SV-102	Oct 2013	10/31/2013	-6.546	-0.4810
			3/18/2014	-0.558	-0.0410
			3/31/2015	-0.558	-0.0410
			1/31/2018	-0.472	-0.0347
			8/4/2020	NM	NM
			3/31/2022	NM	NM
			3/30/2023	NM	NM
			3/13/2024	-0.087	-0.0064

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 Belle Harbor, New York

Store Location	Measuring Point Location	Date Installed	Date Measured	Measured Differential Pressure	
				(in WC)	(in-Hg)
Former Bell Boy Cleaner/ Sofias Nail Salon	SP-103	Oct 2013	10/31/2013	-0.166	-0.0122
			3/18/2014	-1.007	-0.0740
			3/31/2015	-0.109	-0.0080
			1/31/2018	-0.118	-0.0087
			8/4/2020	-0.114	-0.0084
			3/31/2022	-0.090	-0.0066
			3/30/2023	-0.085	-0.0062
			3/13/2024	-0.002	-0.0001
Former Bell Boy Cleaner/ Sofias Nail Salon	SP-104	Oct 2013	10/31/2013	-1.021	-0.0750
		Aug 2020	3/18/2014	-0.084	-0.0062
			3/31/2015	-0.052	-0.0038
			1/31/2018	NM	NM
			8/4/2020	-0.020	-0.0015
			3/31/2022	-0.019	-0.0014
			3/30/2023	-0.010	-0.0007
			3/13/2024	-0.003	-0.0002
Vacant Unit/ Liquor Warehouse	SVP-9	Mar 2012	10/31/2013	NM	NM
			3/18/2014	-0.010	-0.0007
			3/31/2015	-0.022	-0.0016
			1/31/2018	-0.016	-0.0012
			8/4/2020	-0.021	-0.0015
			3/31/2022	-0.011	-0.0008
			3/30/2023	-0.007	-0.0005
			3/13/2024	-0.014	-0.0010
Vacant Unit/ Liquor Warehouse	SVP-10	Mar 2012	10/31/2013	NM	NM
			3/18/2014	-0.008	-0.0006
			3/31/2015	-0.014	-0.0010
			1/31/2018	-0.011	-0.0008
			8/4/2020	-0.041	-0.0030
			3/31/2022	-0.013	-0.0010
			3/30/2023	-0.080	-0.0059
			3/13/2024	-0.100	-0.0073

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 Belle Harbor, New York

Store Location	Measuring Point Location	Date Installed	Date Measured	Measured Differential Pressure	
				(in WC)	(in-Hg)
Stop & Shop Grocery Store	SVP-103	Jan 2018	10/31/2013	NI	NI
			3/18/2014	NI	NI
			3/31/2015	NI	NI
			1/31/2018	-0.007	-0.0005
			8/4/2020	-0.007	-0.0005
			3/31/2022	-0.012	-0.0009
			3/30/2023	-0.005	-0.0004
			3/13/2024	-0.002	-0.0001
Stop & Shop Grocery Store	SVP-201	Aug 2020	10/31/2013	NI	NI
			3/18/2014	NI	NI
			3/31/2015	NI	NI
			1/31/2018	NI	NI
			8/4/2020	-0.013	-0.0010
			3/31/2022	-0.014	-0.0010
			3/30/2023	-0.008	-0.0006
			3/13/2024	-0.011	-0.0008
Stop & Shop Grocery Store	SVP-202	Aug 2020	10/31/2013	NI	NI
			3/18/2014	NI	NI
			3/31/2015	NI	NI
			1/31/2018	NI	NI
			8/4/2020	-0.012	-0.0009
			3/31/2022	-0.014	-0.0010
			3/30/2023	-0.005	-0.0004
			3/13/2024	-0.007	-0.0005
Stop & Shop Grocery Apron	SVP-203	Aug 2020	10/31/2013	NI	NI
			3/18/2014	NI	NI
			3/31/2015	NI	NI
			1/31/2018	NI	NI
			8/4/2020	-0.045	-0.0033
			3/31/2022	-0.042	-0.0031
			3/30/2023	-0.030	-0.0022
			3/13/2024	-0.002	-0.0001

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 Belle Harbor Shopping Center
 Belle Harbor, New York

Store Location	Measuring Point Location	Date Installed	Date Measured	Measured Differential Pressure	
				(in WC)	(in-Hg)
Stop & Shop Grocery Apron	SVP-204	Aug 2020	10/31/2013	NI	NI
			3/18/2014	NI	NI
			3/31/2015	NI	NI
			1/31/2018	NI	NI
			8/4/2020	-0.006	-0.0004
			3/31/2022	-0.006	-0.0004
			3/30/2023	-0.002	-0.0001
			3/13/2024	-0.001	-0.0001

SSSG = Sub-slab soil gas probe
 in WC = inches of water column
 in-Hg = inches of mercury
 NM = Not Measured, store and/or location not accessible.
 NI = Not Installed.

SVP-103 was installed as a temp point in Apr 2015 by GEI, and then as a perm point in Jan 2018 by Stantec

 SV-101 and SV-104 were initially installed in Oct 2013 and replaced in Aug 2020 due to damage from new flooring installed in the Nail Salon.

TABLE 2
 Summary of Sub-Slab Vapor and Indoor Air Analytical Results: March 2024
 Belle Harbor Shopping Center
 Belle Harbor, New York

Sample Location	NYSDOH Standards ¹		Citibank	Ciros Pizza	Sofias Nail Salon	Liquor Warehouse	Liquor Warehouse	Stop & Shop	Stop & Shop	Stop & Shop	Stop & Shop	Stop & Shop	Stop & Shop	Ambient
	Subsurface Vapors	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Sub-Slab Vapor	Indoor Air	Sub-Slab Vapor	Sub-Slab Vapor	Sub-Slab Vapor	Indoor Air	Indoor Air	Indoor Air	Outdoor Air
Sample ID			IA-7	IA-11	IAQ-1 *	SVP-9	IA-9	SVP-103 **	SVP-203	SVP-204	IA-201	IA-202	IA-203	AMB-1
Collection Date			03/12/24	03/12/24	03/12/24	03/13/24	03/12/24	03/13/24	03/13/24	03/13/24	03/12/24	03/12/24	03/12/24	03/12/24
Units	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Analyte														
1,1,1-Trichloroethane	NS	NS	< 0.109	< 0.109	< 0.109	< 0.109	< 0.109	< 1430	< 0.109	< 0.109	< 1.09	< 1.09	< 1.09	< 1.09
1,1,2,2-Tetrachloroethane	NS	NS	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1810	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37	< 1.37
1,1-Dichloroethane	NS	NS	< 0.809	< 0.809	< 0.809	< 0.809	< 0.809	< 1060	< 0.809	< 0.809	< 0.809	< 0.809	< 0.809	< 0.809
1,1-Dichloroethene	NS	NS	< 0.079	< 0.079	< 0.079	< 0.793	< 0.079	< 1040	< 0.793	< 0.793	< 0.079	< 0.079	< 0.079	< 0.079
1,2,4-Trimethylbenzene	NS	NS	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 1290	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983
1,2-Dichloroethane	NS	NS	< 0.809	< 0.809	< 0.809	< 0.809	< 0.809	< 1060	< 0.809	< 0.809	< 0.81	< 0.81	< 0.81	< 0.81
1,3-Butadiene	NS	NS	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 582	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442	< 0.442
1,4-Dichlorobenzene	NS	NS	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1580	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20	< 1.20
1,4-Dioxane	NS	NS	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 948	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721	< 0.721
2,2,4-Trimethylpentane	NS	NS	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	< 1230	< 0.934	< 0.934	< 0.934	< 0.934	< 0.934	0.986
2-Butanone (MEK)	NS	NS	< 1.47	< 1.47	< 1.47	19.3	< 1.47	< 1940	19.4	12.9	< 1.47	< 1.47	< 1.47	< 1.47
2-Hexanone	NS	NS	< 0.82	< 0.82	< 0.82	4.00	< 0.82	< 1760	< 0.82	2.25	< 0.82	< 0.82	< 0.82	< 0.82
2-Propanol (Isopropanol)	NS	NS	24.8	49.7	2,510 J	< 1.23	26.1	< 1620	1.58	< 1.23	16.1	17.4	19.7	2.35
4-Ethyltoluene	NS	NS	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 1290	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983	< 0.983
4-Methyl-2-pentanone (MIBK)	NS	NS	< 2.05	< 2.05	< 2.05	< 2.05	< 2.05	< 2700	< 2.05	< 2.05	< 2.05	< 2.05	< 2.05	< 2.05
Acetone	NS	NS	56.1	831	13,100 J	67.7	546	< 3140	67.9	37.3	80.3	81.0	57.2	29.9
Benzene	NS	NS	0.725	0.821	0.949	< 0.639	0.719	< 840	0.815	< 0.639	0.716	0.712	0.664	0.895
Bromodichloromethane	NS	NS	< 1.34	< 1.34	< 1.34	< 1.34	< 1.34	< 1760	6.77	2.27	< 1.34	< 1.34	< 1.34	< 1.34
Carbon Disulfide	NS	NS	< 0.623	< 0.623	< 0.623	0.670	< 0.623	< 819	26.5	5.92	< 0.623	< 0.623	< 0.623	< 0.623
Carbon Tetrachloride	NS	NS	0.554	0.560	0.591	< 1.26	0.566	< 1650	< 1.26	< 1.26	0.654	0.610 J	0.598	0.547
Chloroethane	NS	NS	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528	< 694	3.51	< 0.528	< 0.528	< 0.528	< 0.528	< 0.528
Chloroform	NS	NS	< 0.977	< 0.977	6.45	< 0.977	< 0.977	< 1280	73.3	46.2	< 0.977	< 0.977	< 0.977	< 0.977
Chloromethane	NS	NS	1.35	1.33	1.50	0.463	1.25	< 543	< 0.413	< 0.413	1.37	1.35	1.33	1.25
cis-1,2-Dichloroethene	NS	NS	< 0.079	< 0.079	< 0.079	< 0.793	< 0.079	< 1040	1.14	< 0.793	< 0.079	< 0.079	< 0.079	< 0.079
Cyclohexane	NS	NS	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 905	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688	< 0.688
Dichlorodifluoromethane (Freon 12)	NS	NS	3.12 J	2.51 J	2.45	2.55	2.38 J	< 1300	2.32	2.62	2.79 J	2.57 J	2.61 J	2.44 J
Ethanol (Ethyl Alcohol)	NS	NS	456 J	528 J	4,370 J	< 9.42	279 J	< 12400	16.6	< 9.42	266 J	268 J	251 J	12.8 J
Ethyl Acetate	NS	NS	< 1.80	15.1	1,160 J	< 1.80	10.2	< 2370	< 1.80	< 1.80	2.54	2.80	2.63	< 1.80
Ethyl Benzene	NS	NS	< 0.869	< 0.869	1.13	< 0.869	< 0.869	< 1140	< 0.869	< 0.869	< 0.869	< 0.869	< 0.869	< 0.869
Heptane	NS	NS	< 0.820	< 0.820	< 0.820	< 0.820	< 0.820	< 1080	< 0.820	< 0.820	< 0.820	< 0.820	< 0.820	0.897
Hexane	NS	NS	< 0.705	< 0.705	< 0.705	< 0.705	< 0.705	< 927	< 0.705	< 0.705	0.715	< 0.705	1.22	1.41
m,p-Xylene	NS	NS	< 1.74	< 1.74	5.21	< 1.74	< 1.74	< 2280	2.38	< 1.74	< 1.74	< 1.74	< 1.74	< 1.74
Methylene Chloride	NS	60	< 1.74	< 1.74	< 1.74	< 1.74	< 1.74	< 2290	< 1.74	< 1.74	< 1.74	< 1.74	24.0	< 1.74
Naphthalene	NS	NS	< 1.05	< 1.05	< 1.05	< 1.05	< 1.05	< 1380	< 1.05	2.25	< 1.05	< 1.05	< 1.05	< 1.05
o-Xylene	NS	NS	< 0.869	< 0.869	0.916	< 0.869	< 0.869	< 1140	< 0.869	< 0.869	< 0.869	< 0.869	< 0.869	< 0.869
Styrene	NS	NS	< 0.852	< 0.852	< 0.852	< 0.852	< 0.852	< 1120	< 0.852	< 0.852	< 0.852	< 0.852	< 0.852	< 0.852
Tert-butyl Alcohol	NS	NS	< 1.52	< 1.52	7.15	2.80	< 1.52	< 1990	8.58	4.15	< 1.52	< 1.52	< 1.52	< 1.52
Tetrachloroethene (PCE)	NS	30	0.888	0.468	0.705	4.86	0.481	511,000	19.5	354	2.05	2.00	1.54	2.75
Tetrahydrofuran	NS	NS	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	< 1940	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47	< 1.47
Toluene	NS	NS	0.935	0.923	26.9	1.10	1.12	< 991	1.45	< 0.754	1.36	1.43	1.33	1.57
trans-1,2-Dichloroethene	NS	NS	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 1040	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793	< 0.793
Trichloroethene (TCE)	NS	2	0.656	< 0.107	< 0.107	< 1.07	< 0.107	1,610	2.88	< 1.07	< 0.107	< 0.107	< 0.107	< 0.107
Trichlorofluoromethane (Freon 11)	NS	NS	1.49	1.51	< 1.12	< 1.05	1.43	< 1480	1.15	< 1.12	1.48	1.48	1.51	1.46
Vinyl Chloride	NS	NS	< 0.051	< 0.051	< 0.051	< 0.511	< 0.051	< 672	< 0.511	< 0.511	< 0.051	< 0.051	< 0.051	< 0.051
Total VOCs			546.6	1431.9	21,194	103.4	869.2	512,610	256	470	376.1	379.4	365.3	59.3

Notes:
¹ Standards from Final Guidance for Evaluating Soil Vapor Intrusion in the State of New York, NYSDOH October 2006 and Updates
 NS = No Standard
 ug/m3 = micrograms per cubic meter (aka part per billion)
 Only those analytes detected in one or more samples are presented above
Bold = Concentration exceeds Standards

Laboratory Qualifiers
 < = Concentration less than noted reporting limits

Validator Qualifiers
 J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

* Sample IAQ-1 diluted by factor of 130 ** Sample SVP-103 diluted by factor of 1300

FIGURES



MAP SOURCE:

DeLORME 3D TOPOQUADS

USGS FAR ROCKAWAY [NY] QUAD
1992

40.34.923°N, 73.34.923°W (NAD83/WGS84)



NEW YORK

2000 0 2000



Scale in feet

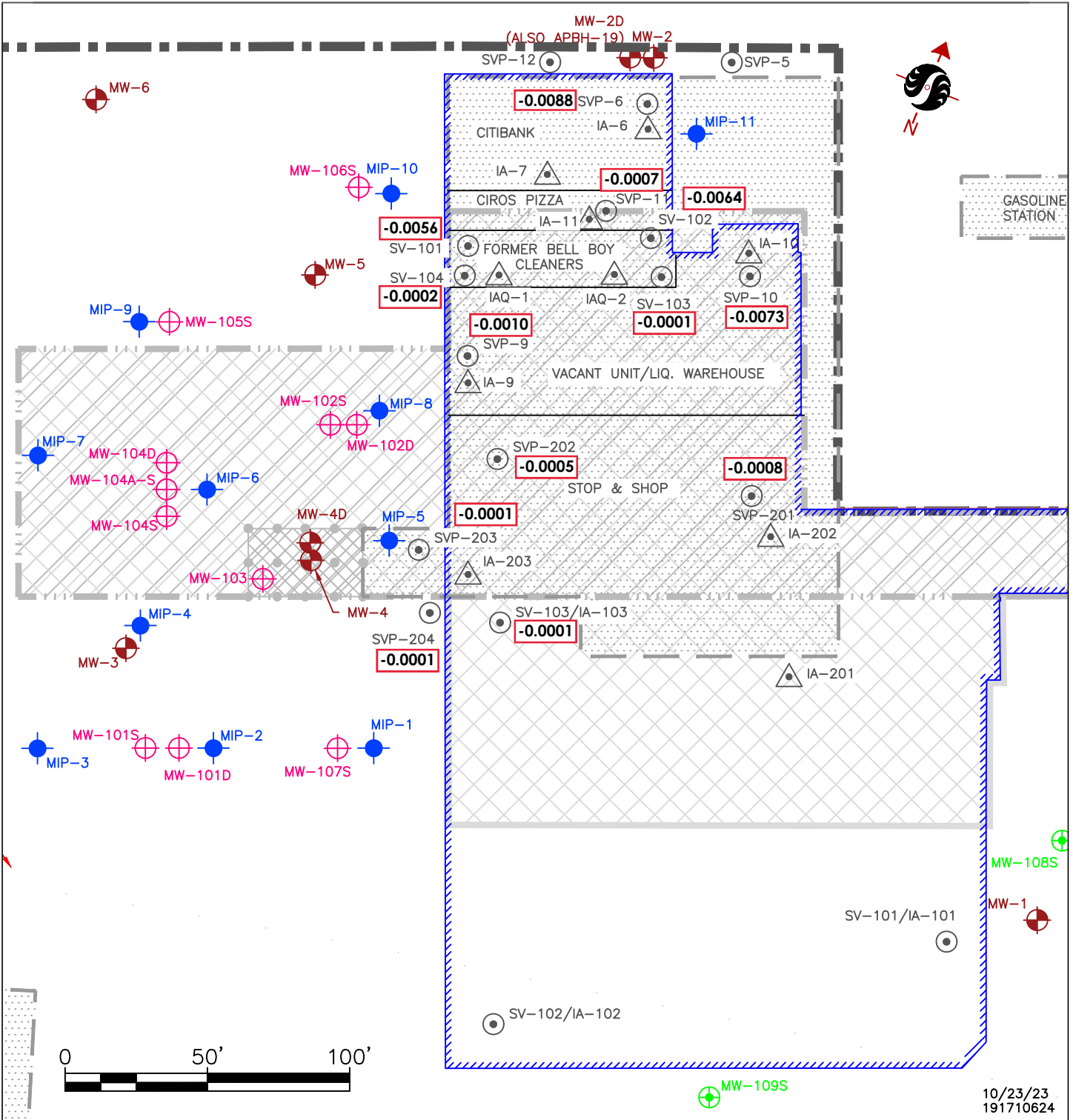


Stantec Consulting Services Inc.

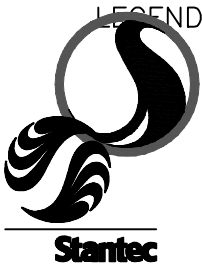
STANTEC OFFICE LOCATION AUBURN, NEW HAMPSHIRE				
DATE PREPARED: 8-02-12	DESIGNED BY: JJW	DRAWN BY: JJW	CHECKED BY: DFM	REVIEWED BY: DFM
REVISION DATE:	REVISION NO:	DRAWN BY:	CHECKED BY:	REVIEWED BY:
PROJECT NAME/FILE NAME: A&P ALOCUS		PROJECT NUMBER/PHASE: 191710624	SCALE: 1:24000	PREPARED FOR: A&P

DRAWING TITLE: SITE LOCATION BELLE HARBOR SHOPPING CENTER 112-15 BEACH CHANNEL DRIVE BELLE HARBOR, NY	FIGURE NO. 1
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\\us0287-ppfss01\workgroup\1917\active\191711713\03_data\gis_cad\Belle harbor sample plan FIG 2_3_7_8 1_31_14_102323CAC.dwg



ORIGINAL SHEET - ANSI A



Stantec Consulting Services, Inc.
5 Dartmouth Drive, Suite 200
Auburn, NH 03032-3984
Tel: 603.669.8672
www.stantec.com

- LEGEND**
- MONITORING WELL (INSTALLED BY OTHERS)
 - MONITORING WELL (INSTALLED BY STANTEC)
 - MIP GEOPROBE®
 - SOIL VAPOR PROBE **-0.0064** MEASURED PRESSURE in-Hg
 - INDOOR AIR SAMPLE LOCATION
 - PRE CIRCA 1954
 - PRE CIRCA 1980
 - PRE CIRCA 1966
 - VCP SITE BOUNDARIES

Client/Project

BELLE HARBOR SHOPPING CENTER
112-15 BEACH CHANNEL DRIVE
QUEENS (FAR ROCKAWAY), NEW YORK

Figure No.

2

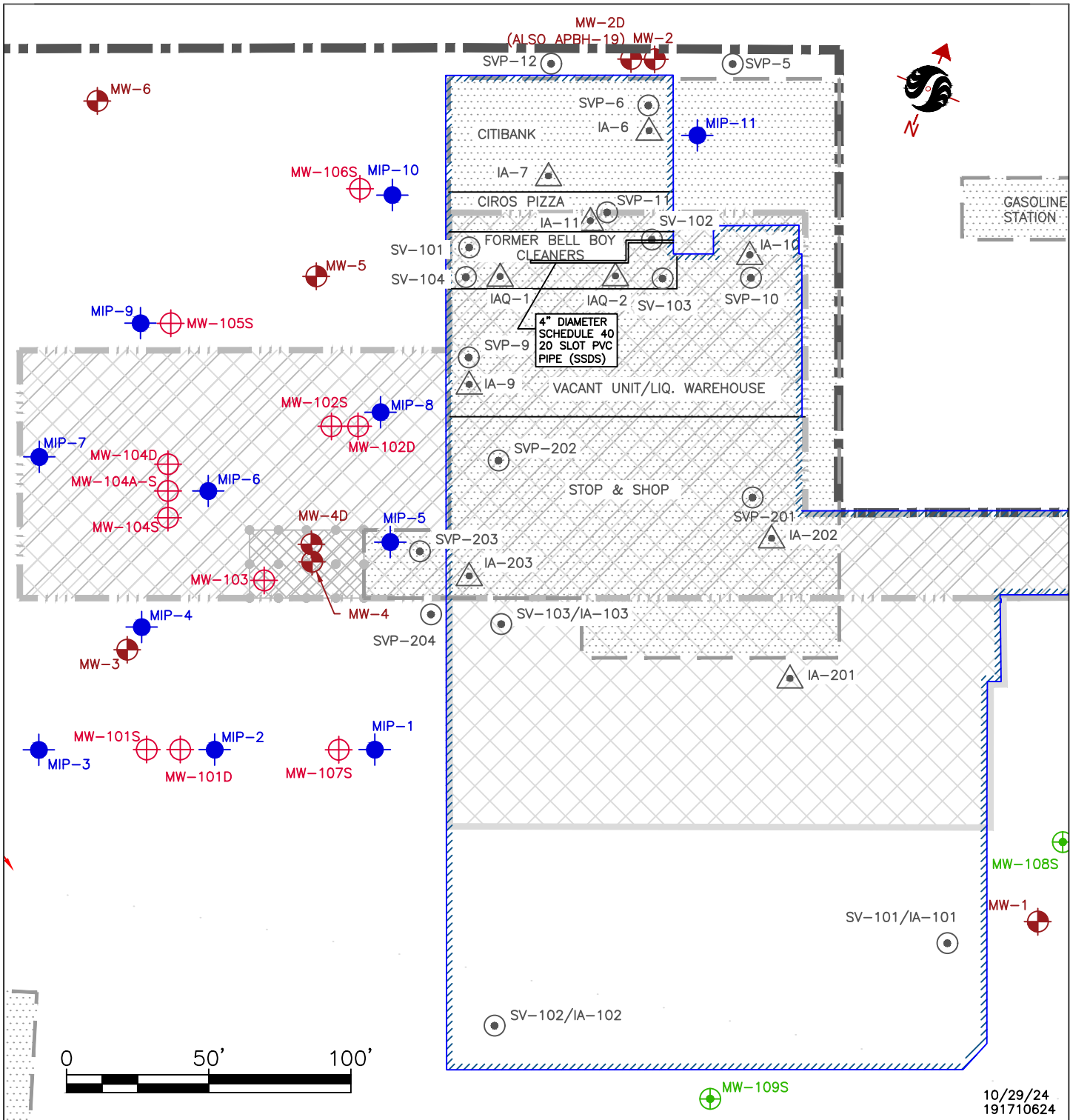
Title

INTERIOR VAPOR
INVESTIGATION SAMPLE
LOCATIONS

10/23/23
191710624

\\US0287-PPFSS01\workgroup\1917\active\191711713\03_data\gis_cad\Belle harbor sample plan FIG 2_3_7_8_1_31_14_102824CAC.dwg

ORIGINAL SHEET - ANSI A



LEGEND

- MW-3 MONITORING WELL (INSTALLED BY WHITESTONE)
- MW-101 MONITORING WELL (INSTALLED BY STANTEC)
- MW-109S MONITORING WELL (INSTALLED BY GEI)
- MIP GEOPROBE
- SVP-5 SOIL VAPOR PROBE LOCATION
- IA-6 INDOOR AIR SAMPLE LOCATION
- PRE CIRCA 1966
- PRE CIRCA 1980
- BCP BOUNDARY



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Client/Project

BELLE HARBOR SHOPPING CENTER
112-15 BEACH CHANNEL DRIVE
QUEENS (FAR ROCKAWAY), NEW YORK

Figure No.

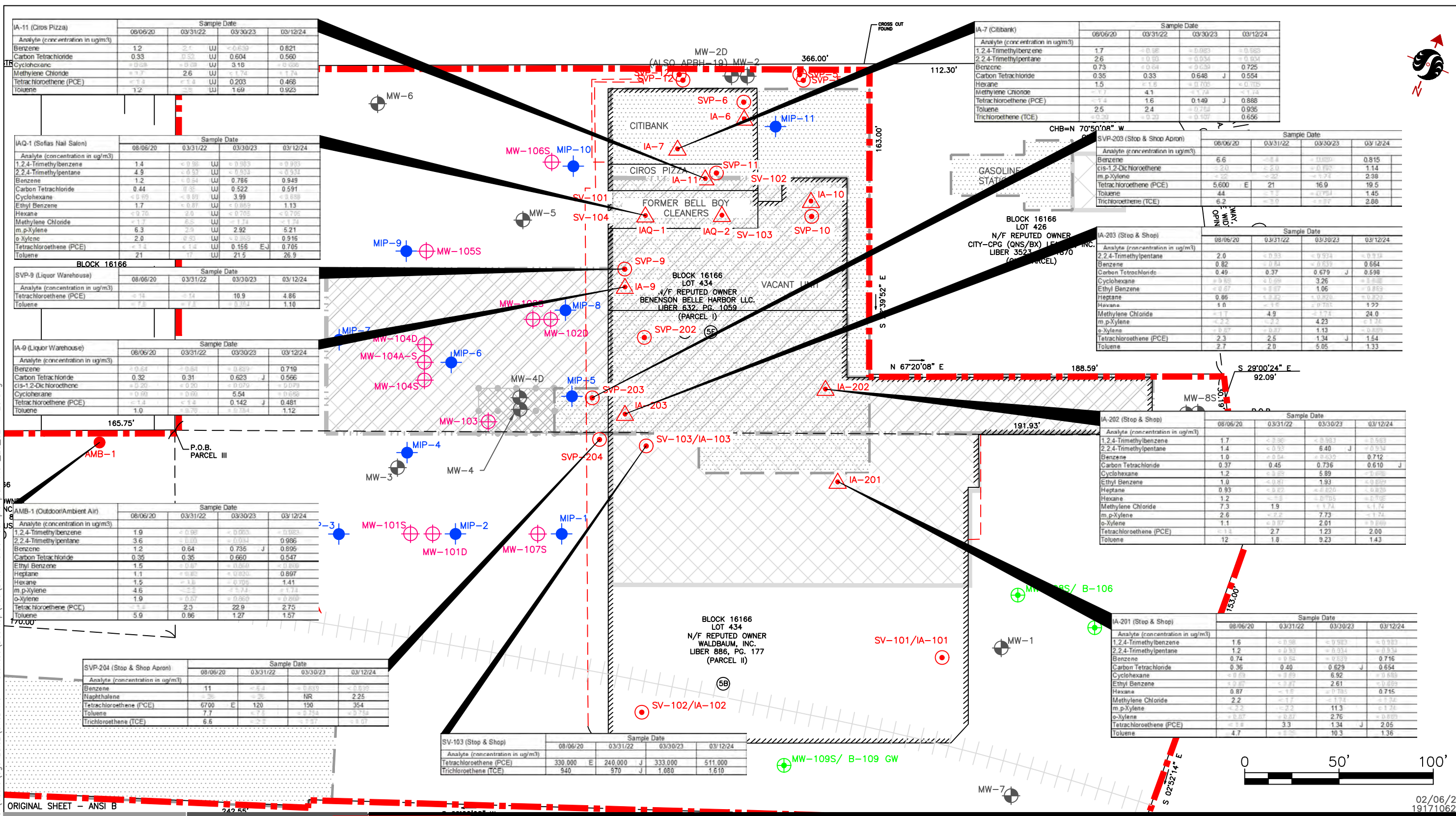
2A

Title

INTERIOR VAPOR
INVESTIGATION SAMPLE
LOCATIONS

10/29/24
191710624

C:\Users\egonzalez_OneDrive - Stantec\Desktop\Belle Harbor sample plan FIG_2a_02-7-25.dwg



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 Fax. 603.669.7636
 www.stantec.com

- Legend**
- MONITOR WELL (INSTALLED BY WHITESTONE)
 - MONITORING WELL (INSTALLED BY STANTEC)
 - MONITORING WELL (INSTALLED BY GEI)
 - SOIL VAPOR PROBE LOCATION
 - INDOOR AIR SAMPLE LOCATION
 - MIP GEOPROBE
 - OUTDOOR/AMBIENT AIR
 - PRE CIRCA 1954
 - PRE CIRCA 1966
 - PRE CIRCA 1980
 - SITE/BCP BOUNDARY

Notes
 SURVEY COMPLETED BY CONTROL POINT ASSOCIATES, INC. SEPTEMBER 2012

Client/Project
 BELLE HARBOR SHOPPING CENTER
 112-15 BEACH CHANNEL DRIVE
 QUEENS (FAR ROCKAWAY), NEW YORK
 Figure No.
3
 Title
 VOC CONCENTRAIONS IN SUB-SLAB
 SOIL GAS AND INDOOR AIR

02/06/25
 191710624

ATTACHMENT 1

Vapor Intrusion Sample Logs: March 2024 Sampling Event



Stantec

5 Dartmouth Drive, Suite 200
Auburn, NH
(603) 496-4674

Sub-Slab Soil Vapor Sample Collection Log

Sample ID: SVP-9

Client:		Date:	<u>3.13.24</u>
Project:		Weather:	
Project #:		Temperature/Pressure:	
Location:		Wind Speed/Direction:	
Sampler(s):		Equipment:	
Background PID Ambient Air Reading:			

SUMMA Canister Information:

Size: 2.7L
 Canister ID: 3411
 Flow Controller ID: 02562
 Pressure Reported by Laboratory: -29.9

Tracer Gas Testing:

Test 1 (before sample collection)				Test 2 (after sample collection)			
Pre-Helium enrichment		Post-Helium enrichment		Pre-Helium enrichment		Post-Helium enrichment	
Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)
<u>0</u>	<u>0</u>	<u>20.2%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>19.7%</u>	<u>0</u>

Differential Pressure Testing:

Test 1 (before sample collection)	Test 2 (after sample collection)
<u>-0.014</u>	<u>-0.007</u>

Sampling Information:

	Time	Pressure (InHg)
Start	<u>1233</u>	<u>-28.83</u>
Check #1	<u>1236</u>	<u>-20.43</u>
Check #2	<u>1238</u>	<u>-15.33</u>
Check #3	<u>1240</u>	<u>-10.76</u>
Check #4	<u>1242</u>	<u>-7.87</u>
Stop	<u>1243</u>	<u>-4.90</u>



Stantec

5 Darnmouth Drive, Suite 200
Auburn, NH
(603) 496-4674

Sub-Slab Soil Vapor Sample Collection Log

Sample ID: SVP-103

Client:		Date:	<u>3.13.24</u>
Project:	<u>Belle Harbor</u>	Weather:	<u>Partly Cloudy</u>
Project #:		Temperature/Pressure:	<u>54°F / 29.95 inHg</u>
Location:		Wind Speed/Direction:	<u>5 SE</u>
Sampler(s):	<u>M. George</u>	Equipment:	
Background PID Ambient Air Reading:	<u>0.0</u>		

SUMMA Canister Information:

Size: 2.7L
 Canister ID: 2364
 Flow Controller ID: 0573
 Pressure Reported by Laboratory: -29.8

Tracer Gas Testing:

Test 1 (before sample collection)				Test 2 (after sample collection)			
Pre-Helium enrichment		Post-Helium enrichment		Pre-Helium enrichment		Post-Helium enrichment	
Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)
<u>0</u>	<u>0</u>	<u>21%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>19.4%</u>	<u>0</u>

Differential Pressure Testing:

Test 1 (before sample collection)	Test 2 (after sample collection)
<u>- 0.002</u>	

Sampling Information:

	Time	Pressure (inHg)
Start	<u>1122</u>	<u>- 29.31</u>
Check #1	<u>1124</u>	<u>- 25.74</u>
Check #2	<u>1127</u>	<u>- 18.52</u>
Check #3	<u>1129</u>	<u>- 13.11</u>
Check #4	<u>1132</u>	<u>- 8.15</u>
Stop	<u>1133</u>	<u>- 4.25</u>



Stantec

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Auburn, NH
(603) 496-4674

Sub-Slab Soil Vapor Sample Collection Log

Sample ID: SVR-204

Client:		Date:	
Project:		Weather:	
Project #:		Temperature/Pressure:	
Location:		Wind Speed/Direction:	
Sampler(s):		Equipment:	
Background PID Ambient Air Reading:	<u>0.0</u>		

SUMMA Canister Information:

Size: 2.7L
 Canister ID: 2736
 Flow Controller ID: 02516
 Pressure Reported by Laboratory: -29.8

Tracer Gas Testing:

Test 1 (before sample collection)				Test 2 (after sample collection)			
Pre-Helium enrichment		Post-Helium enrichment		Pre-Helium enrichment		Post-Helium enrichment	
Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)
<u>0</u>	<u>0</u>	<u>19.7%</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>21.3%</u>	<u>0</u>

Differential Pressure Testing:

Test 1 (before sample collection)	Test 2 (after sample collection)
<u>-0.001</u>	

Sampling Information:

	Time	Pressure (inHg)
Start	<u>11 47</u>	<u>-29.30</u>
Check #1	<u>11 50</u>	<u>-23.19</u>
Check #2	<u>11 52</u>	<u>-18.05</u>
Check #3	<u>11 54</u>	<u>-12.55</u>
Check #4	<u>11 55</u>	<u>-8.97</u>
Stop	<u>11 57</u>	<u>-4.83</u>



Stantec

5 Dartmouth Drive, Suite 200
Auburn, NH
(603) 496-4674

Sub-Slab Soil Vapor Sample Collection Log

Sample ID: SVP-203

Client:		Date:	
Project:		Weather:	
Project #:		Temperature/Pressure:	
Location:		Wind Speed/Direction:	
Sampler(s):		Equipment:	
Background PID Ambient Air Reading:			

SUMMA Canister Information:

Size: 2.7L

Canister ID: 2014

Flow Controller ID: 02410

Pressure Reported by Laboratory: -29.8

Tracer Gas Testing:

Test 1 (before sample collection)				Test 2 (after sample collection)			
Pre-Helium enrichment		Post-Helium enrichment		Pre-Helium enrichment		Post-Helium enrichment	
Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)	Ambient He (ppm)	Downhole He (ppm)
0	0	21.2%	0	0	0	14.7%	0

Differential Pressure Testing:

Test 1 (before sample collection)	Test 2 (after sample collection)
<u>-0.002</u>	<u>-0.001</u>

Sampling Information:

	Time	Pressure (InHg)
Start	<u>1208</u>	<u>-29.66</u>
Check #1	<u>1210</u>	<u>-23.66</u>
Check #2	<u>1212</u>	<u>-20.25</u>
Check #3	<u>1216</u>	<u>-11.50</u>
Check #4	<u>1217</u>	<u>-7.70</u>
Stop	<u>1219</u>	<u>-4.88</u>

ATTACHMENT 2

Laboratory Report: March 2024 Sampling Event



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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2414212

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Project Name: BELLE HARBOR
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Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2414212-01	IA-7	AIR	FAR ROCKAWAY, NY	03/12/24 15:51	03/14/24
L2414212-02	IA-203	AIR	FAR ROCKAWAY, NY	03/12/24 18:00	03/14/24
L2414212-03	IA-202	AIR	FAR ROCKAWAY, NY	03/12/24 18:01	03/14/24
L2414212-04	IA-201	AIR	FAR ROCKAWAY, NY	03/12/24 18:02	03/14/24
L2414212-05	IAQ-1	AIR	FAR ROCKAWAY, NY	03/12/24 18:06	03/14/24
L2414212-06	IA-11	AIR	FAR ROCKAWAY, NY	03/12/24 18:05	03/14/24
L2414212-07	IA-9	AIR	FAR ROCKAWAY, NY	03/12/24 18:30	03/14/24
L2414212-08	AMB-1	AIR	FAR ROCKAWAY, NY	03/12/24 18:35	03/14/24
L2414212-09	SVP-103	SOIL_VAPOR	FAR ROCKAWAY, NY	03/13/24 11:33	03/14/24
L2414212-10	SVP-204	SOIL_VAPOR	FAR ROCKAWAY, NY	03/13/24 11:57	03/14/24
L2414212-11	SVP-203	SOIL_VAPOR	FAR ROCKAWAY, NY	03/13/24 12:19	03/14/24
L2414212-12	SVP-9	SOIL_VAPOR	FAR ROCKAWAY, NY	03/13/24 12:43	03/14/24
L2414212-13	UNUSED CAN	SOIL_VAPOR	FAR ROCKAWAY, NY		03/14/24
L2414212-14	UNUSED CAN	AIR	FAR ROCKAWAY, NY		03/14/24

Project Name: BELLE HARBOR
Project Number: 195601412

Lab Number: L2414212
Report Date: 03/31/24

Case Narrative

The samples were received in accordance with the Chain of Custody and no significant deviations were encountered during the preparation or analysis unless otherwise noted. Sample Receipt, Container Information, and the Chain of Custody are located at the back of the report.

Results contained within this report relate only to the samples submitted under this Alpha Lab Number and meet NELAP requirements for all NELAP accredited parameters unless otherwise noted in the following narrative. The data presented in this report is organized by parameter (i.e. VOC, SVOC, etc.). Sample specific Quality Control data (i.e. Surrogate Spike Recovery) is reported at the end of the target analyte list for each individual sample, followed by the Laboratory Batch Quality Control at the end of each parameter. Tentatively Identified Compounds (TICs), if requested, are reported for compounds identified to be present and are not part of the method/program Target Compound List, even if only a subset of the TCL are being reported. If a sample was re-analyzed or re-extracted due to a required quality control corrective action and if both sets of data are reported, the Laboratory ID of the re-analysis or re-extraction is designated with an "R" or "RE", respectively. When multiple Batch Quality Control elements are reported (e.g. more than one LCS), the associated samples for each element are noted in the grey shaded header line of each data table. Any Laboratory Batch, Sample Specific % recovery or RPD value that is outside the listed Acceptance Criteria is bolded in the report. All specific QC information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications. Soil/sediments, solids and tissues are reported on a dry weight basis unless otherwise noted. Definitions of all data qualifiers and acronyms used in this report are provided in the Glossary located at the back of the report.

In reference to questions H (CAM) or 4 (RCP) when "NO" is checked, the performance criteria for CAM and RCP methods allow for some quality control failures to occur and still be within method compliance. In these instances the specific failure is not narrated but noted in the associated QC table. The information is also incorporated in the Data Usability format of our Data Merger tool where it can be reviewed along with any associated usability implications.

Please see the associated ADEx data file for a comparison of laboratory reporting limits that were achieved with the regulatory Numerical Standards requested on the Chain of Custody.

HOLD POLICY

For samples submitted on hold, Alpha's policy is to hold samples (with the exception of Air canisters) free of charge for 21 calendar days from the date the project is completed. After 21 calendar days, we will dispose of all samples submitted including those put on hold unless you have contacted your Client Service Representative and made arrangements for Alpha to continue to hold the samples. Air canisters will be disposed after 3 business days from the date the project is completed.

Please contact Client Services at 800-624-9220 with any questions.



Project Name: BELLE HARBOR
Project Number: 195601412

Lab Number: L2414212
Report Date: 03/31/24

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on March 8, 2024. The canister certification data is provided as an addendum.

L2414212-05: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2414212-09D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

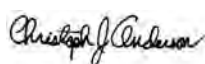
The WG1902103-3 LCS recovery for chloroethane (133%) and 4-methyl-2-pentanone (138%), associated with L2414212-01, -02, -03, -04, -05D, -05, -06, -07, and -08, is above the upper 130% acceptance limit.

All samples associated with this LCS do not have reportable amounts of this analyte.

WG1902103-5D: The relative percent difference for ethyl alcohol (35%) is above the RPD limit of 25%.

WG1902103-5: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete. This certificate of analysis is not complete unless this page accompanies any and all pages of this report.

Authorized Signature: 

Report Date: 03/31/24

Title: Technical Director/Representative



GLOSSARY

Acronyms

DL	- Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
EDL	- Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).
EMPC	- Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.
EPA	- Environmental Protection Agency.
LCS	- Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LCSD	- Laboratory Control Sample Duplicate: Refer to LCS.
LFB	- Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.
LOD	- Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
LOQ	- Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.) Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)
MDL	- Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
MS	- Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.
MSD	- Matrix Spike Sample Duplicate: Refer to MS.
NA	- Not Applicable.
NC	- Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.
NDPA/DPA	- N-Nitrosodiphenylamine/Diphenylamine.
NI	- Not Ignitable.
NP	- Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.
NR	- No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.
RL	- Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.
RPD	- Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.
SRM	- Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.
STLP	- Semi-dynamic Tank Leaching Procedure per EPA Method 1315.
TEF	- Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.
TEQ	- Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.
TIC	- Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

Project Name: BELLE HARBOR
Project Number: 195601412

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Footnotes

- 1 - The reference for this analyte should be considered modified since this analyte is absent from the target analyte list of the original method.

Terms

Analytical Method: Both the document from which the method originates and the analytical reference method. (Example: EPA 8260B is shown as 1,8260B.) The codes for the reference method documents are provided in the References section of the Addendum.

Chlordane: The target compound Chlordane (CAS No. 57-74-9) is reported for GC ECD analyses. Per EPA, this compound "refers to a mixture of chlordane isomers, other chlorinated hydrocarbons and numerous other components." (Reference: USEPA Toxicological Review of Chlordane, In Support of Summary Information on the Integrated Risk Information System (IRIS), December 1997.)

Difference: With respect to Total Oxidizable Precursor (TOP) Assay analysis, the difference is defined as the Post-Treatment value minus the Pre-Treatment value.

Final pH: As it pertains to Sample Receipt & Container Information section of the report, Final pH reflects pH of container determined after adjustment at the laboratory, if applicable. If no adjustment required, value reflects Initial pH.

Frozen Date/Time: With respect to Volatile Organics in soil, Frozen Date/Time reflects the date/time at which associated Reagent Water-preserved vials were initially frozen. Note: If frozen date/time is beyond 48 hours from sample collection, value will be reflected in 'bold'.

Gasoline Range Organics (GRO): Gasoline Range Organics (GRO) results include all chromatographic peaks eluting from Methyl tert butyl ether through Naphthalene, with the exception of GRO analysis in support of State of Ohio programs, which includes all chromatographic peaks eluting from Hexane through Dodecane.

Initial pH: As it pertains to Sample Receipt & Container Information section of the report, Initial pH reflects pH of container determined upon receipt, if applicable.

PAH Total: With respect to Alkylated PAH analyses, the 'PAHs, Total' result is defined as the summation of results for all or a subset of the following compounds: Naphthalene, C1-C4 Naphthalenes, 2-Methylnaphthalene, 1-Methylnaphthalene, Biphenyl, Acenaphthylene, Acenaphthene, Fluorene, C1-C3 Fluorenes, Phenanthrene, C1-C4 Phenanthrenes/Anthracenes, Anthracene, Fluoranthene, Pyrene, C1-C4 Fluoranthenes/Pyrenes, Benz(a)anthracene, Chrysene, C1-C4 Chrysenes, Benzo(b)fluoranthene, Benzo(j)+(k)fluoranthene, Benzo(e)pyrene, Benzo(a)pyrene, Perylene, Indeno(1,2,3-cd)pyrene, Dibenz(ah)+(ac)anthracene, Benzo(g,h,i)perylene. If a 'Total' result is requested, the results of its individual components will also be reported.

PFAS Total: With respect to PFAS analyses, the 'PFAS, Total (5)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA and PFOS. In addition, the 'PFAS, Total (6)' result is defined as the summation of results for: PFHpA, PFHxS, PFOA, PFNA, PFDA and PFOS. For MassDEP DW compliance analysis only, the 'PFAS, Total (6)' result is defined as the summation of results at or above the RL. Note: If a 'Total' result is requested, the results of its individual components will also be reported.

Total: With respect to Organic analyses, a 'Total' result is defined as the summation of results for individual isomers or Aroclors. If a 'Total' result is requested, the results of its individual components will also be reported. This is applicable to 'Total' results for methods 8260, 8081 and 8082.

Data Qualifiers

- A** - Spectra identified as "Aldol Condensates" are byproducts of the extraction/concentration procedures when acetone is introduced in the process.
- B** - The analyte was detected above the reporting limit in the associated method blank. Flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For MCP-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank. For DOD-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte at less than ten times (10x) the concentration found in the blank AND the analyte was detected above one-half the reporting limit (or above the reporting limit for common lab contaminants) in the associated method blank. For NJ-Air-related projects, flag only applies to associated field samples that have detectable concentrations of the analyte above the reporting limit. For NJ-related projects (excluding Air), flag only applies to associated field samples that have detectable concentrations of the analyte, which was detected above the reporting limit in the associated method blank or above five times the reporting limit for common lab contaminants (Phthalates, Acetone, Methylene Chloride, 2-Butanone).
- C** - Co-elution: The target analyte co-elutes with a known lab standard (i.e. surrogate, internal standards, etc.) for co-extracted analyses.
- D** - Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte.
- E** - Concentration of analyte exceeds the range of the calibration curve and/or linear range of the instrument.
- F** - The ratio of quantifier ion response to qualifier ion response falls outside of the laboratory criteria. Results are considered to be an estimated maximum concentration.
- G** - The concentration may be biased high due to matrix interferences (i.e. co-elution) with non-target compound(s). The result should be considered estimated.
- H** - The analysis of pH was performed beyond the regulatory-required holding time of 15 minutes from the time of sample collection.
- I** - The lower value for the two columns has been reported due to obvious interference.
- M** - Reporting Limit (RL) exceeds the MCP CAM Reporting Limit for this analyte.
- NJ** - Presumptive evidence of compound. This represents an estimated concentration for Tentatively Identified Compounds (TICs), where

Report Format: Data Usability Report



Project Name: BELLE HARBOR
Project Number: 195601412

Lab Number: L2414212
Report Date: 03/31/24

Data Qualifiers

the identification is based on a mass spectral library search.

- P** - The RPD between the results for the two columns exceeds the method-specified criteria.
- Q** - The quality control sample exceeds the associated acceptance criteria. For DOD-related projects, LCS and/or Continuing Calibration Standard exceedences are also qualified on all associated sample results. Note: This flag is not applicable for matrix spike recoveries when the sample concentration is greater than 4x the spike added or for batch duplicate RPD when the sample concentrations are less than 5x the RL. (Metals only.)
- R** - Analytical results are from sample re-analysis.
- RE** - Analytical results are from sample re-extraction.
- S** - Analytical results are from modified screening analysis.
- V** - The surrogate associated with this target analyte has a recovery outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- Z** - The batch matrix spike and/or duplicate associated with this target analyte has a recovery/RPD outside the QC acceptance limits. (Applicable to MassDEP DW Compliance samples only.)
- ND** - Not detected at the reporting limit (RL) for the sample.



Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)
Purge time: 11 min

Columns (length x ID x df):
RTX-VMS 20m x 0.18mm x 1um
RTX-VMS 30m x 0.25mm x 1.4um
RTX-502.2 40m x 0.18mm x 1um

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: EST Encon (or equivalent)
Autosampler: EST Centurion (or equivalent)

Column Type: Restek RTX 502.2
Column Length: 105 Meters
df: 3.00 um
ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD
Trap: Supelco K Trap (VOACARB 3000)
Concentrator: Tekmar Velocity / EST Encon
Autosampler: Varian Archon / EST Centurion
Purge time: 11 min

Column Type: DB-VRX
Column Length: 60 Meters
df: 1.40 um
ID: 0.25 mm
Desorb: 1 min

Volatile Organics: Dissolved Gas

Instrument: Agilent 7890 (or equivalent) with FID/TCD

Column Type: Haysep S Column
Column Length: 2 Meters packed
(100/200 mesh)

Autosampler: LEAP Headspace

Purge time: 0.6 min

Volatile Organics in Air Instruments

Volatile Organics in Air:

Instruments: Agilent 6890 GC / 5975 MSD Shimadzu QP2010-SE / QP2020

Concentrator: Entech 7100A or 7200
Autosampler: Entech 7016CA or 7016D

Column Type: Restek RTX-1
Column Length: 60 Meters
df: 1.00 um
ID: 0.25 mm or 0.32 mm

Trap 1: Glass Bead: manufacturer-Entech: 20 cm packing material

Trap 2: Tenax: manufacturer-Entech: 20 cm packing material



Semivolatile Organics Instruments - Westborough

Semivolatile Organics (Acid/Base/Neutral Extractables):

Instrument: Agilent 5973N MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.32 um
Column Length: 30 Meters	ID: 0.25 mm

Polynuclear Aromatic Hydrocarbons by 8270 SIM:

Instrument: Agilent 5973 MSD	Injection volume: 1 ul;2 uL LVI
Column Type: Restek RXI-5SILMS	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Pesticides/PCB/Herbicides:

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Petroleum/EPH:

Instrument: Agilent 6890 w/FID / HP 5890 w/ FID	Injection Volume: 1uL
Column: Restek RTX 5	df: 0.25
Column Length: 30 Meters	
ID: 0.32 mm	



Semivolatile Organic Instruments - Mansfield

Semivolatile Organics (ALK-PAH Extractables):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 1 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8270):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 2 ul
Column Type: ZB-Semivolatiles	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (8270 SIM):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: ZB-5	df: 0.25 um
Column Length: 30 Meters	ID: 0.25 mm

Semivolatile Organics (1,4-Dioxane):

Instrument: Agilent 5973N / 5975 / 5977 MSD	Injection volume: 3 ul
Column Type: RTX-5	df: 0.25um, 0.18 um
Column Length: 30 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (209 Congener):

Instrument: Agilent 5973N / 5975 MSD	Injection volume: 3 ul
Column Type: RTX-5, RTX-PCB	df: 0.25um, 0.18 um
Column Length: 60 Meters	ID: 0.25um, 0.18 mm

Semivolatile Organics (8081):

Instrument: Agilent 6890 / 7890	Injection volume: 1 ul
Column Type: RTX-5 / RTX-CLP II	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Semivolatile Organics (8082):

Instrument: Agilent 6890 w/Dual Micro ECDs	Injection Volume: 1uL
Column A: Restek RTX-CL/STX-CL	df: 0.32
Column B: Restek RTX/STX-CLPesticide II	df: 0.25
Column Length: 30 Meters	ID: 0.32 mm

Semivolatile Organics (SHC Extractables):

Instrument: Agilent 6890	Injection volume: 1 ul
Column Type: RTX-5	df: 0.25 um
Column Length: 60 Meters	ID: 0.25 mm

Sample Delivery Group Summary



Alpha Job Number : L2414212

Received : 14-MAR-2024

Reviewer : Jennifer Jerome

Account Name : Stantec

Project Number : 195601412

Project Name : BELLE HARBOR

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Absent/			

Condition Information

- | | |
|--|------------|
| 1) All samples on COC received? | YES |
| 2) Extra samples received? | NO |
| 3) Are there any sample container discrepancies? | NO |
| 4) Are there any discrepancies between COC & sample labels? | NO |
| 5) Are samples in appropriate containers for requested analysis? | YES |
| 6) Are samples properly preserved for requested analysis? | YES |
| 7) Are samples within holding time for requested analysis? | YES |
| 8) All sampling equipment returned? | YES |

Volatile Organics/VPH

- | | |
|--|-----------|
| 1) Reagent Water Vials Frozen by Client? | NA |
|--|-----------|

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2024, 09:20 pm

Login Number: L2414212

Account: STANTEC-NH-AEL StantecProject: 195601412

Received: 14MAR24 Due Date: 28MAR24

Sample #	Client ID	Mat	PR	Collected
L2414212-01	IA-7	10	S0	12MAR24 15:51
No charge for trip blanks if 4 or more samples ASP-B Package Due Date: 03/28/24				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-02	IA-203	10	S0	12MAR24 18:00
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-03	IA-202	10	S0	12MAR24 18:01
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-04	IA-201	10	S0	12MAR24 18:02
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-05	IAQ-1	10	S0	12MAR24 18:06
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-06	IA-11	10	S0	12MAR24 18:05
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2414212-07	IA-9	10	S0	12MAR24 18:30
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2024, 09:20 pm

Login Number: L2414212
Account: STANTEC-NH-AEL StantecProject: 195601412
Received: 14MAR24 Due Date: 28MAR24

Sample #	Client ID	Mat	PR	Collected
CAN-RENT, FLOW-RENT, TO15-LL, TO15-SIM				
L2414212-08	AMB-1	10	S0	12MAR24 18:35
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, FLOW-RENT, TO15-LL, TO15-SIM				
L2414212-09	SVP-103	11	S0	13MAR24 11:33
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, FLOW-RENT, TO15-LL				
L2414212-10	SVP-204	11	S0	13MAR24 11:57
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, FLOW-RENT, TO15-LL				
L2414212-11	SVP-203	11	S0	13MAR24 12:19
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, FLOW-RENT, TO15-LL				
L2414212-12	SVP-9	11	S0	13MAR24 12:43
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, FLOW-RENT, TO15-LL				
L2414212-13	UNUSED CAN	11	S0	
No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24				
CAN-RENT, CLEAN-FEE, FLOW-RENT				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Mar 31 2024, 09:20 pm

Login Number: L2414212
Account: STANTEC-NH-AEL StantecProject: 195601412
Received: 14MAR24 Due Date: 28MAR24

Sample #	Client ID	Mat PR Collected
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L2414212-14	UNUSED CAN	10 S0
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No charge for trip blanks if 4 or more samples Package Due Date: 03/28/24

CAN-RENT,CLEAN-FEE,FLOW-RENT



AIR ANALYSIS

PAGE 1 OF 2Date Rec'd in Lab: 3/15/24ALPHA Job #: L2414212

CHAIN OF CUSTODY

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288**Project Information**Project Name: Belle Harbor
Project Location: Far Rockaway, NY
Project #: 195601412
Project Manager: Don Moore
ALPHA Quote #:**Report Information - Data Deliverables** FAX
 ADEX
Criteria Checker: _____
(Default based on Regulatory Criteria Indicated)
Other Formats: _____
 EMAIL (standard pdf report)
 Additional Deliverables: _____
Report ID: (if different than Project Manager)**Billing Information** Same as Client info PO # 195601412**Client Information**Client: Stantec
Address: Sparrmouth Dr. Ste. 200
Auburn, NH 03032
Phone: 603-669-8672**Turn-Around Time** Standard RUSH (only confirmed if pre-approved!)

Date Due: _____ Time: _____

Regulatory Requirements/Report Limits

State/Fed Program Res / Comm

Fax: _____

Email: Donald.Moore2@stantec.com These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: **ANALYSIS****All Columns Below Must Be Filled Out**

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH <small>Subtract Non-petroleum HCs</small>	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum											
14212-01	IA-7	3-12-24	0913	1551	-30.12	-8.72	AA	M6	6L	3961	02347	X					
-02	IA-203	3-12-24	0922	1800	-30.22	-3.07	AA	M6	6L	3260	0822	X					
-03	IA-202	3-12-24	0925	1801	-30.26	-4.08	AA	M6	6L	3295	01722	X					
-04	IA-201	3-12-24	0927	1802	-30.06	-3.84	AA	M6	6L	3370	01016	X					
-05	IAQ-1	3-12-24	0948	1806	-29.68	-3.87	AA	M6	6L	2388	01508	X					
-06	IA-11	3-12-24	0955	1805	-30.33	-3.13	AA	M6	6L	2719	01388	X					
-07	IA-9	3-12-24	1000	1830	-30.22	-4.91	AA	M6	6L	3257	0788	X					
-08	AMB-1	3-12-24	1010	1835	-30.34	-4.83	AA	M6	6L	941	01953	X					
-09	SVP-103	3-12-24	1122	1133	-29.31	-4.75	SV	M6	2.7L	2364	0573	X					
-10	SVP-204	3-13-24	1147	1157	-29.30	-4.83	SV	M6	2.7L	2736	02516	X					

***SAMPLE MATRIX CODES**AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

C
S

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: [Signature] 3/15/24
0708

Relinquished By:

Date/Time

Received By:

Date/Time:

[Signature]
3/15/24 500[Signature]
3/14/24 13:55
3/14/24 15:05
3/14/24 20:00
AAL 3/15/24 0500[Signature]
3/14/24 13:55
3/14/24 15:10
3/14/24 20:00
AAL 3/15/24 0708



CHAIN OF CUSTODY

AIR ANALYSIS

PAGE 2 OF 2

Date Rec'd in Lab: 3/15/24

ALPHA Job #: L2414212

320 Forbes Blvd, Mansfield, MA 02048
TEL: 508-822-9300 FAX: 508-822-3288

Project Information

Report Information - Data Deliverables

Billing Information

Project Name: Belle Harbor
Project Location: For Rockaway, NY
Project #: 195601412
Project Manager: Don Moore
ALPHA Quote #:

FAX
 ADEX
Criteria Checker:
(Default based on Regulatory Criteria Indicated)
Other Formats:
 EMAIL (standard pdf report)
 Additional Deliverables:
Report to: (if different than Project Manager)

Same as Client info PD #: 195601412

Client Information

Turn-Around Time

Regulatory Requirements/Report Limits

Client: Stantec
Address: 5 Dartmouth Dr. Ste 200
Avburn, NH 03032
Phone: 603-662-8672

Standard RUSH (only confirmed if pre-approved)

State/Fed Program Res / Comm

Fax:

Date Due: Time:

ANALYSIS

Email: Donald.moore2@stantec.com

These samples have been previously analyzed by Alpha

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List:

TO-15
TO-15 SIM
APH Solvent Non-petroleum HCs
Fixed Gases
Sulfides & Mercaptans by TO-15

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION					Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15 TO-15 SIM APH Solvent Non-petroleum HCs Fixed Gases Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
		End Date	Start Time	End Time	Initial Vacuum	Final Vacuum							
	SVP-203	3-13-24	1208	1219	-29.66	-4.88	SV	M6	2.7L	2014	02410		no 2-4-24
-11	SVP-203	3-13-24	1208	1219	-29.66	-4.88	SV	M6	2.7L	2014	02410	X	
-12	SVP-9	3-13-24	1233	1243	-28.83	-4.90	SV	M6	2.7L	3411	02562	X	

*SAMPLE MATRIX CODES

AA = Ambient Air (Indoor/Outdoor)
SV = Soil Vapor/Landfill Gas/SVE
Other = Please Specify

Container Type

C
S

Please print clearly, legibly and completely. Samples can not be logged in and turnaround time clock will not start until any ambiguities are resolved. All samples submitted are subject to Alpha's Terms and Conditions. See reverse side.

Relinquished By: *Donald Moore* Date/Time: *3/15/24 07:08*
 Received By: *Don Moore* Date/Time: *3/14/24 13:50*
3/14/24 10:00
3/14/24 10:00
3/14/24 10:00
 AAL 3/15/24 0500
 AAL 3/15/24 0500
 AAL 3/15/24 0708

Supporting Documentation

Project Name: BELLE HARBOR

Lab Number: L2414212

Project Number: 195601412

Report Date: 03/31/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2414212-01	IA-7	02347	Flow 4	03/08/24	456273		-	-	-	Pass	10.2	7.3	33
L2414212-01	IA-7	3961	6.0L Can	03/08/24	456273	L2411931-05	Pass	-29.9	-7.8	-	-	-	-
L2414212-02	IA-203	0822	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.0	0
L2414212-02	IA-203	3280	6.0L Can	03/08/24	456273	L2411931-05	Pass	-29.9	-2.7	-	-	-	-
L2414212-03	IA-202	01722	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.3	3
L2414212-03	IA-202	3295	6.0L Can	03/08/24	456273	L2411931-05	Pass	-29.9	-3.5	-	-	-	-
L2414212-04	IA-201	01016	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.3	3
L2414212-04	IA-201	3370	6.0L Can	03/08/24	456273	L2411465-09	Pass	-29.8	-2.7	-	-	-	-
L2414212-05	IAQ-1	01508	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.9	9
L2414212-05	IAQ-1	2388	6.0L Can	03/08/24	456273	L2410898-04	Pass	-29.8	-4.2	-	-	-	-
L2414212-06	IA-11	01388	Flow 3	03/08/24	456273		-	-	-	Pass	10.0	10.9	9
L2414212-06	IA-11	2719	6.0L Can	03/08/24	456273	L2410898-05	Pass	-29.8	-2.2	-	-	-	-
L2414212-07	IA-9	0788	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.1	1
L2414212-07	IA-9	3257	6.0L Can	03/08/24	456273	L2411465-09	Pass	-29.8	-4.1	-	-	-	-
L2414212-08	AMB-1	01953	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.2	2



Project Name: BELLE HARBOR

Lab Number: L2414212

Project Number: 195601412

Report Date: 03/31/24

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controller Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2414212-08	AMB-1	941	6.0L Can	03/08/24	456273	L2410898-03	Pass	-29.9	-3.7	-	-	-	-
L2414212-09	SVP-103	0573	SV200	03/08/24	456273		-	-	-	Pass	208	202	3
L2414212-09	SVP-103	2364	2.7L Can	03/08/24	456273	L2411931-06	Pass	-29.8	-4.0	-	-	-	-
L2414212-10	SVP-204	02516	SV200	03/08/24	456273		-	-	-	Pass	216	210	3
L2414212-10	SVP-204	2736	2.7L Can	03/08/24	456273	L2411931-06	Pass	-29.8	-3.9	-	-	-	-
L2414212-11	SVP-203	02410	SV200	03/08/24	456273		-	-	-	Pass	215	210	2
L2414212-11	SVP-203	2014	2.7L Can	03/08/24	456273	L2411931-06	Pass	-29.8	-3.7	-	-	-	-
L2414212-12	SVP-9	02562	SV200	03/08/24	456273		-	-	-	Pass	215	209	3
L2414212-12	SVP-9	3411	2.7L Can	03/08/24	456273	L2411931-06	Pass	-29.9	-4.2	-	-	-	-
L2414212-13	UNUSED CAN	02519	SV200	03/08/24	456273		-	-	-	Pass	215	210	2
L2414212-13	UNUSED CAN	2429	2.7L Can	03/08/24	456273	L2411931-06	Pass	-29.8	-29.1	-	-	-	-
L2414212-14	UNUSED CAN	01668	Flow 4	03/08/24	456273		-	-	-	Pass	10.0	10.5	5
L2414212-14	UNUSED CAN	2682	6.0L Can	03/08/24	456273	L2411931-05	Pass	-29.9	-28.4	-	-	-	-



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03
 Client ID: CAN 941 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/29/24 19:43
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03 Date Collected: 02/28/24 18:00
 Client ID: CAN 941 SHELF 36 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03 Date Collected: 02/28/24 18:00
 Client ID: CAN 941 SHELF 36 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03
 Client ID: CAN 941 SHELF 36
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03 Date Collected: 02/28/24 18:00
 Client ID: CAN 941 SHELF 36 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	92		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03
 Client ID: CAN 941 SHELF 36
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/29/24 19:43
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03 Date Collected: 02/28/24 18:00
 Client ID: CAN 941 SHELF 36 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-03
 Client ID: CAN 941 SHELF 36
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/29/24 20:22
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04 Date Collected: 02/28/24 18:00
 Client ID: CAN 2388 SHELF 37 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04 Date Collected: 02/28/24 18:00
 Client ID: CAN 2388 SHELF 37 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	94		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	91		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/29/24 20:22
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-04
 Client ID: CAN 2388 SHELF 37
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	94		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	90		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05
 Client ID: CAN 2719 SHELF 38
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 02/29/24 21:01
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05 Date Collected: 02/28/24 18:00
 Client ID: CAN 2719 SHELF 38 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05 Date Collected: 02/28/24 18:00
 Client ID: CAN 2719 SHELF 38 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05
 Client ID: CAN 2719 SHELF 38
 Sample Location:

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05 Date Collected: 02/28/24 18:00
 Client ID: CAN 2719 SHELF 38 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	85		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05
 Client ID: CAN 2719 SHELF 38
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 02/29/24 21:01
 Analyst: JFI

Date Collected: 02/28/24 18:00
 Date Received: 02/29/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05 Date Collected: 02/28/24 18:00
 Client ID: CAN 2719 SHELF 38 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2410898
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2410898-05 Date Collected: 02/28/24 18:00
 Client ID: CAN 2719 SHELF 38 Date Received: 02/29/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	88		60-140
bromochloromethane	92		60-140
chlorobenzene-d5	84		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09
 Client ID: CAN 3257 SHELF 65
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/05/24 01:05
 Analyst: JFI

Date Collected: 03/02/24 13:00
 Date Received: 03/02/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	0.777	0.500	--	1.40	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	0.345	0.200	--	0.820	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09 Date Collected: 03/02/24 13:00
 Client ID: CAN 3257 SHELF 65 Date Received: 03/02/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09 Date Collected: 03/02/24 13:00
 Client ID: CAN 3257 SHELF 65 Date Received: 03/02/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09
 Client ID: CAN 3257 SHELF 65
 Sample Location:

Date Collected: 03/02/24 13:00
 Date Received: 03/02/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09 Date Collected: 03/02/24 13:00
 Client ID: CAN 3257 SHELF 65 Date Received: 03/02/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	91		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	88		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09
 Client ID: CAN 3257 SHELF 65
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/05/24 01:05
 Analyst: JFI

Date Collected: 03/02/24 13:00
 Date Received: 03/02/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09 Date Collected: 03/02/24 13:00
 Client ID: CAN 3257 SHELF 65 Date Received: 03/02/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411465
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411465-09 Date Collected: 03/02/24 13:00
 Client ID: CAN 3257 SHELF 65 Date Received: 03/02/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	90		60-140
bromochloromethane	95		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05
 Client ID: CAN 2975 SHELF 67
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/06/24 23:01
 Analyst: JFI

Date Collected: 03/05/24 18:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05 Date Collected: 03/05/24 18:00
 Client ID: CAN 2975 SHELF 67 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05 Date Collected: 03/05/24 18:00
 Client ID: CAN 2975 SHELF 67 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05
 Client ID: CAN 2975 SHELF 67
 Sample Location:

Date Collected: 03/05/24 18:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05 Date Collected: 03/05/24 18:00
 Client ID: CAN 2975 SHELF 67 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	90		60-140
Bromochloromethane	94		60-140
chlorobenzene-d5	86		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05
 Client ID: CAN 2975 SHELF 67
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/06/24 23:01
 Analyst: JFI

Date Collected: 03/05/24 18:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05 Date Collected: 03/05/24 18:00
 Client ID: CAN 2975 SHELF 67 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-05 Date Collected: 03/05/24 18:00
 Client ID: CAN 2975 SHELF 67 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	91		60-140
bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06
 Client ID: CAN 2992 SHELF 13
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15
 Analytical Date: 03/07/24 02:17
 Analyst: JFI

Date Collected: 03/06/24 11:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Chlorodifluoromethane	ND	0.200	--	ND	0.707	--		1
Propylene	ND	0.500	--	ND	0.861	--		1
Propane	ND	0.500	--	ND	0.902	--		1
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.200	--	ND	1.40	--		1
Methanol	ND	5.00	--	ND	6.55	--		1
Vinyl chloride	ND	0.200	--	ND	0.511	--		1
1,3-Butadiene	ND	0.200	--	ND	0.442	--		1
Butane	ND	0.200	--	ND	0.475	--		1
Bromomethane	ND	0.200	--	ND	0.777	--		1
Chloroethane	ND	0.200	--	ND	0.528	--		1
Ethanol	ND	5.00	--	ND	9.42	--		1
Dichlorofluoromethane	ND	0.200	--	ND	0.842	--		1
Vinyl bromide	ND	0.200	--	ND	0.874	--		1
Acrolein	ND	0.500	--	ND	1.15	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Acetonitrile	ND	0.200	--	ND	0.336	--		1
Trichlorofluoromethane	ND	0.200	--	ND	1.12	--		1
Isopropanol	ND	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06 Date Collected: 03/06/24 11:00
 Client ID: CAN 2992 SHELF 13 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Methylene chloride	ND	0.500	--	ND	1.74	--		1
3-Chloropropene	ND	0.200	--	ND	0.626	--		1
Carbon disulfide	ND	0.200	--	ND	0.623	--		1
Freon-113	ND	0.200	--	ND	1.53	--		1
trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
1,1-Dichloroethane	ND	0.200	--	ND	0.809	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
Vinyl acetate	ND	1.00	--	ND	3.52	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
Xylenes, total	ND	0.600	--	ND	0.869	--		1
cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Ethyl Acetate	ND	0.500	--	ND	1.80	--		1
Chloroform	ND	0.200	--	ND	0.977	--		1
Tetrahydrofuran	ND	0.500	--	ND	1.47	--		1
2,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1
1,2-Dichloroethane	ND	0.200	--	ND	0.809	--		1
n-Hexane	ND	0.200	--	ND	0.705	--		1
Diisopropyl ether	ND	0.200	--	ND	0.836	--		1
tert-Butyl Ethyl Ether	ND	0.200	--	ND	0.836	--		1
1,2-Dichloroethene (total)	ND	1.00	--	ND	1.00	--		1
1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--		1
1,1-Dichloropropene	ND	0.200	--	ND	0.908	--		1
Benzene	ND	0.200	--	ND	0.639	--		1
Carbon tetrachloride	ND	0.200	--	ND	1.26	--		1
Cyclohexane	ND	0.200	--	ND	0.688	--		1
tert-Amyl Methyl Ether	ND	0.200	--	ND	0.836	--		1
Dibromomethane	ND	0.200	--	ND	1.42	--		1
1,2-Dichloropropane	ND	0.200	--	ND	0.924	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06
 Client ID: CAN 2992 SHELF 13
 Sample Location:

Date Collected: 03/06/24 11:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Bromodichloromethane	ND	0.200	--	ND	1.34	--		1
1,4-Dioxane	ND	0.200	--	ND	0.721	--		1
Trichloroethene	ND	0.200	--	ND	1.07	--		1
2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--		1
Methyl Methacrylate	ND	0.500	--	ND	2.05	--		1
Heptane	ND	0.200	--	ND	0.820	--		1
cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--		1
1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--		1
Toluene	ND	0.200	--	ND	0.754	--		1
1,3-Dichloropropane	ND	0.200	--	ND	0.924	--		1
2-Hexanone	ND	0.200	--	ND	0.820	--		1
Dibromochloromethane	ND	0.200	--	ND	1.70	--		1
1,2-Dibromoethane	ND	0.200	--	ND	1.54	--		1
Butyl acetate	ND	0.500	--	ND	2.38	--		1
Octane	ND	0.200	--	ND	0.934	--		1
Tetrachloroethene	ND	0.200	--	ND	1.36	--		1
1,1,1,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
Chlorobenzene	ND	0.200	--	ND	0.921	--		1
Ethylbenzene	ND	0.200	--	ND	0.869	--		1
p/m-Xylene	ND	0.400	--	ND	1.74	--		1
Bromoform	ND	0.200	--	ND	2.07	--		1
Styrene	ND	0.200	--	ND	0.852	--		1
1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--		1
o-Xylene	ND	0.200	--	ND	0.869	--		1
1,2,3-Trichloropropane	ND	0.200	--	ND	1.21	--		1
Nonane	ND	0.200	--	ND	1.05	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06
 Client ID: CAN 2992 SHELF 13
 Sample Location:

Date Collected: 03/06/24 11:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
Bromobenzene	ND	0.200	--	ND	0.793	--		1
2-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
n-Propylbenzene	ND	0.200	--	ND	0.983	--		1
4-Chlorotoluene	ND	0.200	--	ND	1.04	--		1
4-Ethyltoluene	ND	0.200	--	ND	0.983	--		1
1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
tert-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--		1
Decane	ND	0.200	--	ND	1.16	--		1
Benzyl chloride	ND	0.200	--	ND	1.04	--		1
1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1
1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2-Dibromo-3-chloropropane	ND	0.200	--	ND	1.93	--		1
Undecane	ND	0.200	--	ND	1.28	--		1
Dodecane	ND	0.200	--	ND	1.39	--		1
1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Naphthalene	ND	0.200	--	ND	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds				

No Tentatively Identified Compounds



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06 Date Collected: 03/06/24 11:00
 Client ID: CAN 2992 SHELF 13 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air								

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	92		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	87		60-140



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06
 Client ID: CAN 2992 SHELF 13
 Sample Location:
 Matrix: Air
 Analytical Method: 48,TO-15-SIM
 Analytical Date: 03/07/24 02:17
 Analyst: JFI

Date Collected: 03/06/24 11:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--		1
Chloromethane	ND	0.200	--	ND	0.413	--		1
Freon-114	ND	0.050	--	ND	0.349	--		1
Vinyl chloride	ND	0.020	--	ND	0.051	--		1
1,3-Butadiene	ND	0.020	--	ND	0.044	--		1
Bromomethane	ND	0.020	--	ND	0.078	--		1
Chloroethane	ND	0.100	--	ND	0.264	--		1
Acrolein	ND	0.050	--	ND	0.115	--		1
Acetone	ND	1.00	--	ND	2.38	--		1
Trichlorofluoromethane	ND	0.050	--	ND	0.281	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
1,1-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Methylene chloride	ND	0.500	--	ND	1.74	--		1
Freon-113	ND	0.050	--	ND	0.383	--		1
trans-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
1,1-Dichloroethane	ND	0.020	--	ND	0.081	--		1
Methyl tert butyl ether	ND	0.200	--	ND	0.721	--		1
2-Butanone	ND	0.500	--	ND	1.47	--		1
cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--		1
Chloroform	ND	0.020	--	ND	0.098	--		1
1,2-Dichloroethane	ND	0.020	--	ND	0.081	--		1
1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Benzene	ND	0.100	--	ND	0.319	--		1
Carbon tetrachloride	ND	0.020	--	ND	0.126	--		1
1,2-Dichloropropane	ND	0.020	--	ND	0.092	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06 Date Collected: 03/06/24 11:00
 Client ID: CAN 2992 SHELF 13 Date Received: 03/06/24
 Sample Location: Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatiles Organics in Air by SIM								
Bromodichloromethane	ND	0.020	--	ND	0.134	--		1
1,4-Dioxane	ND	0.100	--	ND	0.360	--		1
Trichloroethene	ND	0.020	--	ND	0.107	--		1
cis-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--		1
trans-1,3-Dichloropropene	ND	0.020	--	ND	0.091	--		1
1,1,2-Trichloroethane	ND	0.020	--	ND	0.109	--		1
Toluene	ND	0.100	--	ND	0.377	--		1
Dibromochloromethane	ND	0.020	--	ND	0.170	--		1
1,2-Dibromoethane	ND	0.020	--	ND	0.154	--		1
Tetrachloroethene	ND	0.020	--	ND	0.136	--		1
1,1,1,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
Chlorobenzene	ND	0.100	--	ND	0.461	--		1
Ethylbenzene	ND	0.020	--	ND	0.087	--		1
p/m-Xylene	ND	0.040	--	ND	0.174	--		1
Bromoform	ND	0.020	--	ND	0.207	--		1
Styrene	ND	0.020	--	ND	0.085	--		1
1,1,2,2-Tetrachloroethane	ND	0.020	--	ND	0.137	--		1
o-Xylene	ND	0.020	--	ND	0.087	--		1
Isopropylbenzene	ND	0.200	--	ND	0.983	--		1
4-Ethyltoluene	ND	0.020	--	ND	0.098	--		1
1,3,5-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
1,2,4-Trimethylbenzene	ND	0.020	--	ND	0.098	--		1
Benzyl chloride	ND	0.100	--	ND	0.518	--		1
1,3-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
1,4-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
sec-Butylbenzene	ND	0.200	--	ND	1.10	--		1
p-Isopropyltoluene	ND	0.200	--	ND	1.10	--		1



Project Name: BATCH CANISTER CERTIFICATION
Project Number: CANISTER QC BAT

Lab Number: L2411931
Report Date: 03/31/24

Air Canister Certification Results

Lab ID: L2411931-06
 Client ID: CAN 2992 SHELF 13
 Sample Location:

Date Collected: 03/06/24 11:00
 Date Received: 03/06/24
 Field Prep: Not Specified

Parameter	ppbV			ug/m3			Qualifier	Dilution Factor
	Results	RL	MDL	Results	RL	MDL		
Volatile Organics in Air by SIM								
1,2-Dichlorobenzene	ND	0.020	--	ND	0.120	--		1
n-Butylbenzene	ND	0.200	--	ND	1.10	--		1
1,2,4-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Naphthalene	ND	0.050	--	ND	0.262	--		1
1,2,3-Trichlorobenzene	ND	0.050	--	ND	0.371	--		1
Hexachlorobutadiene	ND	0.050	--	ND	0.533	--		1

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-difluorobenzene	92		60-140
bromochloromethane	97		60-140
chlorobenzene-d5	88		60-140



Organics



Volatile Organics in Air TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Client Sample ID	: IAQ-1	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2414212-05	Analysis Date	: 03/28/24 22:15
Lab File ID	: R223429	DUP File ID	: r223430
Dup Sample ID	: WG1902103-5	DUP Analysis Date	: 03/28/24 22:47

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.495	0.475	4	25
Chloromethane	0.726	0.747	3	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	2320E	2230	4	25
Vinyl bromide	ND	ND	NC	25
Acetone	5500E	5190	6	25
Trichlorofluoromethane	ND	ND	NC	25
Isopropanol	1020E	995	2	25
Tertiary butyl Alcohol	2.36	2.36	0	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	ND	ND	NC	25
Ethyl Acetate	322E	312	3	25
Chloroform	1.32	1.32	0	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Client Sample ID	: IAQ-1	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2414212-05	Analysis Date	: 03/28/24 22:15
Lab File ID	: R223429	DUP File ID	: r223430
Dup Sample ID	: WG1902103-5	DUP Analysis Date	: 03/28/24 22:47

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	0.297	0.293	1	25
Cyclohexane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	7.14	7.26	2	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	0.261	0.272	4	25
p/m-Xylene	1.20	1.21	1	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	0.211	0.216	2	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Client Sample ID	: IAQ-1	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2414212-05	Analysis Date	: 03/28/24 22:15
Lab File ID	: R223429	DUP File ID	: r223430
Dup Sample ID	: WG1902103-5	DUP Analysis Date	: 03/28/24 22:47

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzyl chloride	ND	ND	NC	25
1,3-Dichlorobenzene	ND	ND	NC	25
1,4-Dichlorobenzene	ND	ND	NC	25
1,2-Dichlorobenzene	ND	ND	NC	25
1,2,4-Trichlorobenzene	ND	ND	NC	25
Naphthalene	ND	ND	NC	25
Hexachlorobutadiene	ND	ND	NC	25



Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Client Sample ID	: IAQ-1	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2414212-05	Analysis Date	: 03/29/24 09:23
Lab File ID	: R223442	DUP File ID	: r223443
Dup Sample ID	: WG1902103-5	DUP Analysis Date	: 03/29/24 09:52

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Ethanol	3960	2790	35 Q	25
Acetone	35200	36500	4	25
Isopropanol	1440	1440	0	25
Ethyl Acetate	324	311	4	25



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902103-3 **Analysis Date** : 03/28/24 13:50 **File ID** : r223417
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	10.1	101				-	70-130	-
Chloromethane	10	10.5	105				-	70-130	-
Freon-114	10	11.3	113				-	70-130	-
Vinyl chloride	10	10.6	106				-	70-130	-
1,3-Butadiene	10	11.7	117				-	70-130	-
Bromomethane	10	10.7	107				-	70-130	-
Chloroethane	10	13.3	133 Q				-	70-130	-
Ethanol	50	36.4	73				-	40-160	-
Vinyl bromide	10	10.4	104				-	70-130	-
Acetone	50	59.9	120				-	40-160	-
Trichlorofluoromethane	10	10.9	109				-	70-130	-
Isopropanol	25	25.4	102				-	40-160	-
1,1-Dichloroethene	10	12.0	120				-	70-130	-
Tertiary butyl Alcohol	10	11.1	111				-	70-130	-
Methylene chloride	10	9.69	97				-	70-130	-
3-Chloropropene	10	10.5	105				-	70-130	-
Carbon disulfide	10	8.64	86				-	70-130	-
Freon-113	10	9.52	95				-	70-130	-
trans-1,2-Dichloroethene	10	9.38	94				-	70-130	-
1,1-Dichloroethane	10	9.50	95				-	70-130	-
Methyl tert butyl ether	10	9.78	98				-	70-130	-
2-Butanone	10	9.43	94				-	70-130	-
cis-1,2-Dichloroethene	10	9.75	98				-	70-130	-
Ethyl Acetate	10	10.1	101				-	70-130	-
Chloroform	10	9.96	100				-	70-130	-
Tetrahydrofuran	10	9.72	97				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec Lab Number : L2414212
 Project Name : BELLE HARBOR Project Number : 195601412
 Matrix (Level) : AIR (LOW)
 LCS Sample ID : WG1902103-3 Analysis Date : 03/28/24 13:50 File ID : r223417
 LCSD Sample ID : Analysis Date : File ID :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethane	10	10.6	106				-	70-130	-
n-Hexane	10	12.5	125				-	70-130	-
1,1,1-Trichloroethane	10	12.4	124				-	70-130	-
Benzene	10	10.8	108				-	70-130	-
Carbon tetrachloride	10	12.4	124				-	70-130	-
Cyclohexane	10	11.8	118				-	70-130	-
1,2-Dichloropropane	10	11.8	118				-	70-130	-
Bromodichloromethane	10	13.0	130				-	70-130	-
1,4-Dioxane	10	11.3	113				-	70-130	-
Trichloroethene	10	11.1	111				-	70-130	-
2,2,4-Trimethylpentane	10	12.7	127				-	70-130	-
Heptane	10	12.9	129				-	70-130	-
cis-1,3-Dichloropropene	10	11.8	118				-	70-130	-
4-Methyl-2-pentanone	10	13.8	138 Q				-	70-130	-
trans-1,3-Dichloropropene	10	11.6	116				-	70-130	-
1,1,2-Trichloroethane	10	11.1	111				-	70-130	-
Toluene	10	8.37	84				-	70-130	-
2-Hexanone	10	9.56	96				-	70-130	-
Dibromochloromethane	10	9.04	90				-	70-130	-
1,2-Dibromoethane	10	8.12	81				-	70-130	-
Tetrachloroethene	10	7.85	78				-	70-130	-
Chlorobenzene	10	8.33	83				-	70-130	-
Ethylbenzene	10	8.47	85				-	70-130	-
p/m-Xylene	20	18.1	90				-	70-130	-
Bromoform	10	8.63	86				-	70-130	-
Styrene	10	8.08	81				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902103-3 **Analysis Date** : 03/28/24 13:50 **File ID** : r223417
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	9.00	90				-	70-130	-
o-Xylene	10	9.31	93				-	70-130	-
4-Ethyltoluene	10	8.54	85				-	70-130	-
1,3,5-Trimethylbenzene	10	9.09	91				-	70-130	-
1,2,4-Trimethylbenzene	10	9.21	92				-	70-130	-
Benzyl chloride	10	9.65	96				-	70-130	-
1,3-Dichlorobenzene	10	7.87	79				-	70-130	-
1,4-Dichlorobenzene	10	8.16	82				-	70-130	-
1,2-Dichlorobenzene	10	7.88	79				-	70-130	-
1,2,4-Trichlorobenzene	10	7.00	70				-	70-130	-
Naphthalene	10	8.80	88				-	70-130	-
Hexachlorobutadiene	10	7.56	76				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902670-3 **Analysis Date** : 03/29/24 13:29 **File ID** : r15436789
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Dichlorodifluoromethane	10	10.0	100				-	70-130	-
Chloromethane	10	9.53	95				-	70-130	-
Freon-114	10	10.6	106				-	70-130	-
Vinyl chloride	10	9.11	91				-	70-130	-
1,3-Butadiene	10	10.2	102				-	70-130	-
Bromomethane	10	9.47	95				-	70-130	-
Chloroethane	10	9.14	91				-	70-130	-
Ethanol	50	38.4	77				-	40-160	-
Vinyl bromide	10	9.00	90				-	70-130	-
Acetone	50	47.2	94				-	40-160	-
Trichlorofluoromethane	10	9.44	94				-	70-130	-
Isopropanol	25	21.4	86				-	40-160	-
1,1-Dichloroethene	10	9.27	93				-	70-130	-
Tertiary butyl Alcohol	10	8.44	84				-	70-130	-
Methylene chloride	10	9.33	93				-	70-130	-
3-Chloropropene	10	9.66	97				-	70-130	-
Carbon disulfide	10	8.62	86				-	70-130	-
Freon-113	10	9.27	93				-	70-130	-
trans-1,2-Dichloroethene	10	8.78	88				-	70-130	-
1,1-Dichloroethane	10	9.02	90				-	70-130	-
Methyl tert butyl ether	10	9.57	96				-	70-130	-
2-Butanone	10	9.60	96				-	70-130	-
cis-1,2-Dichloroethene	10	9.26	93				-	70-130	-
Ethyl Acetate	10	8.82	88				-	70-130	-
Chloroform	10	9.52	95				-	70-130	-
Tetrahydrofuran	10	9.38	94				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902670-3 **Analysis Date** : 03/29/24 13:29 **File ID** : r15436789
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,2-Dichloroethane	10	9.48	95				-	70-130	-
n-Hexane	10	8.92	89				-	70-130	-
1,1,1-Trichloroethane	10	9.77	98				-	70-130	-
Benzene	10	9.13	91				-	70-130	-
Carbon tetrachloride	10	10.3	103				-	70-130	-
Cyclohexane	10	9.03	90				-	70-130	-
1,2-Dichloropropane	10	8.99	90				-	70-130	-
Bromodichloromethane	10	9.96	100				-	70-130	-
1,4-Dioxane	10	9.66	97				-	70-130	-
Trichloroethene	10	8.83	88				-	70-130	-
2,2,4-Trimethylpentane	10	9.31	93				-	70-130	-
Heptane	10	10.1	101				-	70-130	-
cis-1,3-Dichloropropene	10	10.0	100				-	70-130	-
4-Methyl-2-pentanone	10	10.2	102				-	70-130	-
trans-1,3-Dichloropropene	10	10.3	103				-	70-130	-
1,1,2-Trichloroethane	10	9.33	93				-	70-130	-
Toluene	10	8.68	87				-	70-130	-
2-Hexanone	10	10.7	107				-	70-130	-
Dibromochloromethane	10	9.72	97				-	70-130	-
1,2-Dibromoethane	10	9.61	96				-	70-130	-
Tetrachloroethene	10	8.77	88				-	70-130	-
Chlorobenzene	10	9.04	90				-	70-130	-
Ethylbenzene	10	9.02	90				-	70-130	-
p/m-Xylene	20	18.5	92				-	70-130	-
Bromoform	10	9.93	99				-	70-130	-
Styrene	10	9.69	97				-	70-130	-



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902670-3 **Analysis Date** : 03/29/24 13:29 **File ID** : r15436789
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
1,1,2,2-Tetrachloroethane	10	9.36	94				-	70-130	-
o-Xylene	10	9.59	96				-	70-130	-
4-Ethyltoluene	10	9.62	96				-	70-130	-
1,3,5-Trimethylbenzene	10	10.1	101				-	70-130	-
1,2,4-Trimethylbenzene	10	9.99	100				-	70-130	-
Benzyl chloride	10	8.85	88				-	70-130	-
1,3-Dichlorobenzene	10	9.66	97				-	70-130	-
1,4-Dichlorobenzene	10	9.64	96				-	70-130	-
1,2-Dichlorobenzene	10	9.60	96				-	70-130	-
1,2,4-Trichlorobenzene	10	8.38	84				-	70-130	-
Naphthalene	10	9.13	91				-	70-130	-
Hexachlorobutadiene	10	8.90	89				-	70-130	-



Method Blank Summary

Form 4

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Lab Sample ID	: WG1902103-4	Lab File ID	: r223419
Instrument ID	: AIRLAB22		
Matrix	: AIR	Analysis Date	: 03/28/24 16:41

Client Sample No.	Lab Sample ID	Analysis Date
WG1902103-3LCS	WG1902103-3	03/28/24 13:50
AMB-1	L2414212-08	03/28/24 19:35
IA-7	L2414212-01	03/28/24 20:09
IA-203	L2414212-02	03/28/24 20:40
IA-202	L2414212-03	03/28/24 21:12
IA-201	L2414212-04	03/28/24 21:43
IAQ-1	L2414212-05	03/28/24 22:15
IAQ-1DUP	WG1902103-5	03/28/24 22:47
IA-11	L2414212-06	03/28/24 23:18
IA-9	L2414212-07	03/28/24 23:50
IAQ-1	L2414212-05D	03/29/24 09:23
IAQ-1DUP	WG1902103-5D	03/29/24 09:52



**Method Blank Summary
Form 4
Air Volatiles**

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Lab Sample ID	: WG1902670-4	Lab File ID	: r15436791
Instrument ID	: AIRLAB15		
Matrix	: AIR	Analysis Date	: 03/29/24 15:45

Client Sample No.	Lab Sample ID	Analysis Date
WG1902670-3LCS	WG1902670-3	03/29/24 13:29
IA002DUP	WG1902670-5	03/29/24 20:09
SVP-204	L2414212-10	03/30/24 03:45
SVP-203	L2414212-11	03/30/24 04:27
SVP-9	L2414212-12	03/30/24 05:08
SVP-103	L2414212-09D	03/30/24 05:47



Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB22	Analysis Date	: 11/29/23 20:41
Tune Standard	: WG1858542-1	Tune File ID	: r221886_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	9.9
75	30.0 - 66.0% of mass 95	31.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.4)1
174	50.0 - 120.0% of mass 95	65.7
175	4.0 - 9.0% of mass 174	4.5 (6.9)1
176	93.0 - 101% of mass 174	63.5 (96.6)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1769916-1	R221890	11/29/23 22:39
STD0.5	R1769916-2	R221891	11/29/23 23:11
STD1.0	R1769916-3	R221892	11/29/23 23:44
STD5.0	R1769916-4	R221893	11/30/23 00:16
STD010	R1769916-5	R221894	11/30/23 00:49
STD020	R1769916-6	R221895	11/30/23 01:19
STD050	R1769916-7	R221896	11/30/23 01:51
STD100	R1769916-8	R221897	11/30/23 02:24
ICV QUANT	R1769916-9	R221900	11/30/23 16:23



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB22	Analysis Date : 03/28/24 12:41
Tune Standard : WG1902103-1	Tune File ID : r223415_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13
75	30.0 - 66.0% of mass 95	37
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.4)1
174	50.0 - 120.0% of mass 95	59.3
175	4.0 - 9.0% of mass 174	4.1 (6.8)1
176	93.0 - 101% of mass 174	56.4 (95.1)1
177	5.0 - 9.0% of mass 176	3.8 (6.7)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1902103-2CCAL	WG1902103-2	R223417	03/28/24 13:50
WG1902103-3LCS	WG1902103-3	R223417	03/28/24 13:50
WG1902103-4BLANK	WG1902103-4	R223419	03/28/24 16:41
AMB-1	L2414212-08	R223424	03/28/24 19:35
IA-7	L2414212-01	R223425	03/28/24 20:09
IA-203	L2414212-02	R223426	03/28/24 20:40
IA-202	L2414212-03	R223427	03/28/24 21:12
IA-201	L2414212-04	R223428	03/28/24 21:43
IAQ-1	L2414212-05	R223429	03/28/24 22:15
WG1902103-5DUP	WG1902103-5	R223430	03/28/24 22:47
IA-11	L2414212-06	R223431	03/28/24 23:18
IA-9	L2414212-07	R223432	03/28/24 23:50
IAQ-1	L2414212-05D	R223442	03/29/24 09:23
WG1902103-5DUP	WG1902103-5D	R223443	03/29/24 09:52



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB15	Analysis Date	: 03/22/24 19:40
Tune Standard	: WG1900348-1	Tune File ID	: r1543626_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	21.9
75	30.0 - 66.0% of mass 95	47
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.6)1
174	50.0 - 120.0% of mass 95	56.9
175	4.0 - 9.0% of mass 174	4.1 (7.3)1
176	93.0 - 101% of mass 174	55.5 (97.5)1
177	5.0 - 9.0% of mass 176	3.6 (6.4)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1809131-1	R1543630	03/22/24 22:17
STD0.5	R1809131-2	R1543631	03/22/24 22:59
STD1.0	R1809131-3	R1543632	03/22/24 23:42
STD5.0	R1809131-4	R1543633	03/23/24 00:23
STD010	R1809131-5	R1543634	03/23/24 01:07
STD020	R1809131-6	R1543635	03/23/24 01:47
STD050	R1809131-7	R1543636	03/23/24 02:28
STD100	R1809131-8	R1543637	03/23/24 03:11
ICV QUANT	R1809131-9	R1543640	03/23/24 11:24



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB15	Analysis Date	: 03/29/24 12:46
Tune Standard	: WG1902670-1	Tune File ID	: r15436787_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	22.9
75	30.0 - 66.0% of mass 95	49.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.3 (.6)1
174	50.0 - 120.0% of mass 95	56.6
175	4.0 - 9.0% of mass 174	3.9 (6.9)1
176	93.0 - 101% of mass 174	53.6 (94.8)1
177	5.0 - 9.0% of mass 176	3.8 (7.1)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1902670-2CCAL	WG1902670-2	R15436789	03/29/24 13:29
WG1902670-3LCS	WG1902670-3	R15436789	03/29/24 13:29
WG1902670-4BLANK	WG1902670-4	R15436791	03/29/24 15:45
WG1902670-5DUP	WG1902670-5	R15436796	03/29/24 20:09
SVP-204	L2414212-10	R15436807	03/30/24 03:45
SVP-203	L2414212-11	R15436808	03/30/24 04:27
SVP-9	L2414212-12	R15436809	03/30/24 05:08
SVP-103	L2414212-09D	R15436810	03/30/24 05:47



Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Sample No : WG1902103-2

Lab Number : L2414212
 Project Number : 195601412
 Analysis Date : 03/28/24 13:50:00
 Lab File ID : R223417

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1902103-2	222450	4.46	633782	5.38	85965	7.35
Upper Limit	311430	4.79	887295	5.71	120351	7.68
Lower Limit	133470	4.13	380269	5.05	51579	7.02
Sample ID						
WG1902103-3 LCS	222450	4.46	633782	5.38	85965	7.35
WG1902103-4 BLANK	214196	4.46	605209	5.39	83556	7.35
AMB-1	204668	4.46	567291	5.39	83958	7.35
IA-7	201787	4.46	560710	5.39	82408	7.35
IA-203	199850	4.46	552397	5.39	82547	7.35
IA-202	199578	4.46	556407	5.39	82400	7.35
IA-201	198460	4.46	546314	5.39	81932	7.35
IAQ-1	212324	4.46	635920	5.39	93761	7.35
IAQ-1 DUP	225407	4.46	680730	5.39	97586	7.35
IA-11	218303	4.46	606590	5.39	88717	7.35
IA-9	212272	4.46	581249	5.39	86960	7.35
IAQ-1	203004	4.48	567641	5.40	83638	7.36
IAQ-1 DUP	198696	4.47	553184	5.40	82361	7.36

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits



**Internal Standard Area and RT Summary
Form 8a
Air Volatiles**

Client : Stantec
Project Name : BELLE HARBOR
Instrument ID : AIRLAB15
Sample No : WG1902670-2

Lab Number : L2414212
Project Number : 195601412
Analysis Date : 03/29/24 13:29:00
Lab File ID : R15436789

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1902670-2	358796	9.23	735074	11.45	162298	16.13
Upper Limit	502314	9.56	1029104	11.78	227217	16.46
Lower Limit	215278	8.90	441044	11.12	97379	15.80
Sample ID						
WG1902670-3 LCS	358796	9.23	735074	11.45	162298	16.13
WG1902670-4 BLANK	336851	9.23	708234	11.45	149629	16.13
IA002 DUP	341326	9.22	706802	11.45	153598	16.12
SVP-204	356144	9.21	760901	11.44	167902	16.12
SVP-203	366814	9.21	771010	11.44	185268	16.12
SVP-9	364024	9.21	771650	11.44	160364	16.12
SVP-103	345849	9.21	733140	11.44	154188	16.12

Area Upper Limit = +40% of internal standard area
Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,1,1-Trichloroethane	71-55-6	0.2	0.0614	ppbV	70-130			25	25	
1,1,2,2-Tetrachloroethane	79-34-5	0.2	0.052	ppbV	70-130			25	25	
1,1,2-Trichloroethane	79-00-5	0.2	0.0582	ppbV	70-130			25	25	
1,1-Dichloroethane	75-34-3	0.2	0.0568	ppbV	70-130			25	25	
1,1-Dichloroethene	75-35-4	0.2	0.0568	ppbV	70-130			25	25	
1,2,3-Trimethylbenzene	526-73-8	0.2	0.0576	ppbV	70-130			25	25	
1,2,4-Trichlorobenzene	120-82-1	0.2	0.1	ppbV	70-130			25	25	
1,2,4-Trimethylbenzene	95-63-6	0.2	0.0577	ppbV	70-130			25	25	
1,2,4,5-Tetramethylbenzene	95-93-2	0.2	0.135	ppbV	70-130			25	25	
1,2-Dibromoethane	106-93-4	0.2	0.0544	ppbV	70-130			25	25	
1,2-Dichlorobenzene	95-50-1	0.2	0.0619	ppbV	70-130			25	25	
1,2-Dichloroethane	107-06-2	0.2	0.0787	ppbV	70-130			25	25	
1,2-Dichloropropane	78-87-5	0.2	0.0631	ppbV	70-130			25	25	
1,3,5-Trimethylbenzene	108-67-8	0.2	0.06	ppbV	70-130			25	25	
1,3-Butadiene	106-99-0	0.2	0.0619	ppbV	70-130			25	25	
1,3-Dichlorobenzene	541-73-1	0.2	0.0777	ppbV	70-130			25	25	
1,4-Dichlorobenzene	106-46-7	0.2	0.0826	ppbV	70-130			25	25	
1,4-Dioxane	123-91-1	0.2	0.0538	ppbV	70-130			25	25	
2,2,4-Trimethylpentane	540-84-1	0.2	0.0692	ppbV	70-130			25	25	
2-Butanone	78-93-3	0.5	0.099	ppbV	70-130			25	25	
2-Hexanone	591-78-6	0.2	0.0912	ppbV	70-130			25	25	
2-Methylthiophene	554-14-3	0.2	0.0622	ppbV	70-130			25	25	
3-Methylthiophene	616-44-4	0.2	0.0634	ppbV	70-130			25	25	
3-Chloropropene	107-05-1	0.2	0.086	ppbV	70-130			25	25	
2-Ethylthiophene	872-55-9	0.2	0.0612	ppbV	70-130			25	25	
4-Ethyltoluene	622-96-8	0.2	0.0554	ppbV	70-130			25	25	
Acetone	67-64-1	1	0.515	ppbV	40-160			25	25	
Benzene	71-43-2	0.2	0.0643	ppbV	70-130			25	25	
Benzyl chloride	100-44-7	0.2	0.0939	ppbV	70-130			25	25	
Benzothiophene	95-15-8	0.5	0.273	ppbV	70-130			25	25	
Bromodichloromethane	75-27-4	0.2	0.0689	ppbV	70-130			25	25	
Bromoform	75-25-2	0.2	0.0596	ppbV	70-130			25	25	
Bromomethane	74-83-9	0.2	0.0547	ppbV	70-130			25	25	
Carbon disulfide	75-15-0	0.2	0.0465	ppbV	70-130			25	25	
Carbon tetrachloride	56-23-5	0.2	0.0686	ppbV	70-130			25	25	
Chlorobenzene	108-90-7	0.2	0.0516	ppbV	70-130			25	25	
Chloroethane	75-00-3	0.2	0.0649	ppbV	70-130			25	25	
Chloroform	67-66-3	0.2	0.0552	ppbV	70-130			25	25	
Chloromethane	74-87-3	0.2	0.0576	ppbV	70-130			25	25	
cis-1,2-Dichloroethene	156-59-2	0.2	0.0595	ppbV	70-130			25	25	
cis-1,3-Dichloropropene	10061-01-5	0.2	0.0674	ppbV	70-130			25	25	
Cyclohexane	110-82-7	0.2	0.0728	ppbV	70-130			25	25	

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 2

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25	
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25	
Ethyl Alcohol	GCDAl06	5	1.74	ppbV	40-160			25	25	
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25	
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25	
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25	
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25	
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25	
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25	
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25	
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25	
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25	
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25	
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25	
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25	
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25	
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25	
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25	
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25	
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25	
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25	
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25	
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25	
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25	
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25	
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25	
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25	
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25	
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25	
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25	
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25	
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25	
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25	
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25	
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25	
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25	
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25	
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25	
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25	
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25	
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25	
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25	

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Date Created: 01/09/24
 Created By: Jason Hebert
 File: PM15856-1
 Page: 3

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria
1,2,3-Trichloropropane	96-18-4	0.2	0.0575	ppbV	70-130			25	25	
Acetonitrile	75-05-8	0.2	0.101	ppbV	70-130			25	25	
Bromobenzene	108-86-1	0.2	0.0579	ppbV	70-130			25	25	
Chlorodifluoromethane	75-45-6	0.2	0.0463	ppbV	70-130			25	25	
Dichlorofluoromethane	75-43-4	0.2	0.112	ppbV	70-130			25	25	
Dibromomethane	74-95-3	0.2	0.0598	ppbV	70-130			25	25	
Pentane	109-66-0	0.2	0.113	ppbV	70-130			25	25	
Octane	111-65-9	0.2	0.0676	ppbV	70-130			25	25	
Tertiary-Amyl Methyl Ether	994-05-8	0.2	0.0672	ppbV	70-130			25	25	
o-Chlorotoluene	95-49-8	0.2	0.0761	ppbV	70-130			25	25	
p-Chlorotoluene	106-43-4	0.2	0.0765	ppbV	70-130			25	25	
2,2-Dichloropropane	594-20-7	0.2	0.0429	ppbV	70-130			25	25	
1,1-Dichloropropene	563-58-6	0.2	0.0593	ppbV	70-130			25	25	
Isopropyl Ether	108-20-3	0.2	0.0631	ppbV	70-130			25	25	
Ethyl-Tert-Butyl-Ether	637-92-3	0.2	0.0731	ppbV	70-130			25	25	
1,2,3-Trichlorobenzene	87-61-6	0.2	0.0738	ppbV	70-130			25	25	
Ethyl ether	60-29-7	0.2	0.0853	ppbV	70-130			25	25	
n-Butylbenzene	104-51-8	0.2	0.0536	ppbV	70-130			25	25	
sec-Butylbenzene	135-98-8	0.2	0.0547	ppbV	70-130			25	25	
tert-Butylbenzene	98-06-6	0.2	0.0551	ppbV	70-130			25	25	
1,2-Dibromo-3-chloropropane	96-12-8	0.2	0.0624	ppbV	70-130			25	25	
p-Isopropyltoluene	99-87-6	0.2	0.0567	ppbV	70-130			25	25	
n-Propylbenzene	103-65-1	0.2	0.0633	ppbV	70-130			25	25	
1,3-Dichloropropane	142-28-9	0.2	0.0536	ppbV	70-130			25	25	
Methanol	67-56-1	5	3.029	ppbV	70-130			25	25	
Acetaldehyde	75-07-0	2.5	1.73	ppbV	70-130			25	25	
Butane	106-97-8	0.2	0.08	ppbV	70-130			25	25	
Nonane (C9)	111-84-2	0.2	0.0737	ppbV	70-130			25	25	
Decane (C10)	124-18-5	0.2	0.0697	ppbV	70-130			25	25	
Undecane	1120-21-4	0.2	0.0709	ppbV	70-130			25	25	
Indane	496-11-7	0.2	0.0591	ppbV	70-130			25	25	
Indene	95-13-6	0.2	0.0711	ppbV	70-130			25	25	
1-Methylnaphthalene	90-12-0	1	0.264	ppbV	70-130			25	25	
Dodecane (C12)	112-40-3	0.2	0.0891	ppbV	70-130			25	25	
Butyl Acetate	123-86-4	0.5	0.208	ppbV	70-130			25	25	
tert-Butyl Alcohol	75-65-0	0.5	0.132	ppbV	70-130			25	25	
2-Methylnaphthalene	91-57-6	1	0.259	ppbV	70-130			25	25	
1,2-Dichloroethane-d4	17060-07-0									70-130
Toluene-d8	2037-26-5									70-130
Bromofluorobenzene	460-00-4									70-130

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Volatiles Sample Data

Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-01
 Client ID : IA-7
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223425
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 15:51
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:09
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.631	0.200	--	3.12	0.989	--	
74-87-3	Chloromethane	0.656	0.200	--	1.35	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	242	5.00	--	456	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	23.6	1.00	--	56.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.266	0.200	--	1.49	1.12	--	
67-63-0	Isopropanol	10.1	0.500	--	24.8	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.227	0.200	--	0.725	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-01
 Client ID : IA-7
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223425
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 15:51
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:09
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.248	0.200	--	0.935	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-01
Client ID : IA-7
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223425
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 15:51
Date Received : 03/14/24
Date Analyzed : 03/28/24 20:09
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-02
 Client ID : IA-203
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223426
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:00
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:40
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.527	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.646	0.200	--	1.33	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	133	5.00	--	251	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	24.1	1.00	--	57.2	2.38	--	
75-69-4	Trichlorofluoromethane	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	8.03	0.500	--	19.7	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	6.90	0.500	--	24.0	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.731	0.500	--	2.63	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.345	0.200	--	1.22	0.705	--	
71-43-2	Benzene	0.208	0.200	--	0.664	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-02
 Client ID : IA-203
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223426
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:00
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:40
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.352	0.200	--	1.33	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-02
Client ID : IA-203
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223426
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:00
Date Received : 03/14/24
Date Analyzed : 03/28/24 20:40
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-03
 Client ID : IA-202
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223427
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:01
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:12
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.520	0.200	--	2.57	0.989	--	
74-87-3	Chloromethane	0.653	0.200	--	1.35	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	142	5.00	--	268	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	34.1	1.00	--	81.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.264	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	7.06	0.500	--	17.4	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.778	0.500	--	2.80	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.223	0.200	--	0.712	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-03
 Client ID : IA-202
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223427
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:01
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:12
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.379	0.200	--	1.43	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-03
Client ID : IA-202
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223427
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:01
Date Received : 03/14/24
Date Analyzed : 03/28/24 21:12
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-04
 Client ID : IA-201
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223428
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:02
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.565	0.200	--	2.79	0.989	--	
74-87-3	Chloromethane	0.662	0.200	--	1.37	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	141	5.00	--	266	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	33.8	1.00	--	80.3	2.38	--	
75-69-4	Trichlorofluoromethane	0.264	0.200	--	1.48	1.12	--	
67-63-0	Isopropanol	6.55	0.500	--	16.1	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.705	0.500	--	2.54	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.203	0.200	--	0.715	0.705	--	
71-43-2	Benzene	0.224	0.200	--	0.716	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-04
 Client ID : IA-201
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223428
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:02
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.361	0.200	--	1.36	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-04
Client ID : IA-201
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223428
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:02
Date Received : 03/14/24
Date Analyzed : 03/28/24 21:43
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-05
 Client ID : IAQ-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223429
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.495	0.200	--	2.45	0.989	--	
74-87-3	Chloromethane	0.726	0.200	--	1.50	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	2320	5.00	--	4370	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5500	1.00	--	13100	2.38	--	E
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	1020	0.500	--	2510	1.23	--	E
75-65-0	Tertiary butyl Alcohol	2.36	0.500	--	7.15	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	322	0.500	--	1160	1.80	--	E
67-66-3	Chloroform	1.32	0.200	--	6.45	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.297	0.200	--	0.949	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-05
 Client ID : IAQ-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223429
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	7.14	0.200	--	26.9	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.261	0.200	--	1.13	0.869	--	
179601-23-1	p/m-Xylene	1.20	0.400	--	5.21	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.211	0.200	--	0.916	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-05
Client ID : IAQ-1
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223429
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:06
Date Received : 03/14/24
Date Analyzed : 03/28/24 22:15
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-05D
Client ID : IAQ-1
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223442
Sample Amount : 1.91 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:06
Date Received : 03/14/24
Date Analyzed : 03/29/24 09:23
Dilution Factor : 130.9
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
64-17-5	Ethanol	3960	654	--	7460	1230	--	
67-64-1	Acetone	35200	131	--	83600	311	--	
67-63-0	Isopropanol	1440	65.4	--	3540	161	--	
141-78-6	Ethyl Acetate	324	65.4	--	1170	236	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-06
 Client ID : IA-11
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223431
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:05
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:18
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.508	0.200	--	2.51	0.989	--	
74-87-3	Chloromethane	0.644	0.200	--	1.33	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	280	5.00	--	528	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	350	1.00	--	831	2.38	--	
75-69-4	Trichlorofluoromethane	0.268	0.200	--	1.51	1.12	--	
67-63-0	Isopropanol	20.2	0.500	--	49.7	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	4.20	0.500	--	15.1	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.257	0.200	--	0.821	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-06
 Client ID : IA-11
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223431
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:05
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:18
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.245	0.200	--	0.923	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-06
Client ID : IA-11
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223431
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:05
Date Received : 03/14/24
Date Analyzed : 03/28/24 23:18
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-07
 Client ID : IA-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223432
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:30
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:50
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.482	0.200	--	2.38	0.989	--	
74-87-3	Chloromethane	0.603	0.200	--	1.25	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	148	5.00	--	279	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	230	1.00	--	546	2.38	--	
75-69-4	Trichlorofluoromethane	0.254	0.200	--	1.43	1.12	--	
67-63-0	Isopropanol	10.6	0.500	--	26.1	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	2.83	0.500	--	10.2	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.225	0.200	--	0.719	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-07
 Client ID : IA-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223432
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:30
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:50
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.296	0.200	--	1.12	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-07
Client ID : IA-9
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223432
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:30
Date Received : 03/14/24
Date Analyzed : 03/28/24 23:50
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-08
 Client ID : AMB-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223424
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:35
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 19:35
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.494	0.200	--	2.44	0.989	--	
74-87-3	Chloromethane	0.606	0.200	--	1.25	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	6.79	5.00	--	12.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	12.6	1.00	--	29.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.259	0.200	--	1.46	1.12	--	
67-63-0	Isopropanol	0.955	0.500	--	2.35	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.401	0.200	--	1.41	0.705	--	
71-43-2	Benzene	0.280	0.200	--	0.895	0.639	--	



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-08
 Client ID : AMB-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223424
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:35
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 19:35
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	0.211	0.200	--	0.986	0.934	--	
142-82-5	Heptane	0.219	0.200	--	0.897	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.417	0.200	--	1.57	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-08
Client ID : AMB-1
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223424
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:35
Date Received : 03/14/24
Date Analyzed : 03/28/24 19:35
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-09D
 Client ID : SVP-103
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436810
 Sample Amount : 0.190 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 11:33
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 05:47
 Dilution Factor : 1316
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	263	--	ND	1300	--	U
74-87-3	Chloromethane	ND	263	--	ND	543.	--	U
76-14-2	Freon-114	ND	263	--	ND	1840	--	U
75-01-4	Vinyl chloride	ND	263	--	ND	672.	--	U
106-99-0	1,3-Butadiene	ND	263	--	ND	582.	--	U
74-83-9	Bromomethane	ND	263	--	ND	1020	--	U
75-00-3	Chloroethane	ND	263	--	ND	694.	--	U
64-17-5	Ethanol	ND	6580	--	ND	12400	--	U
593-60-2	Vinyl bromide	ND	263	--	ND	1150	--	U
67-64-1	Acetone	ND	1320	--	ND	3140	--	U
75-69-4	Trichlorofluoromethane	ND	263	--	ND	1480	--	U
67-63-0	Isopropanol	ND	658	--	ND	1620	--	U
75-35-4	1,1-Dichloroethene	ND	263	--	ND	1040	--	U
75-65-0	Tertiary butyl Alcohol	ND	658	--	ND	1990	--	U
75-09-2	Methylene chloride	ND	658	--	ND	2290	--	U
107-05-1	3-Chloropropene	ND	263	--	ND	823.	--	U
75-15-0	Carbon disulfide	ND	263	--	ND	819.	--	U
76-13-1	Freon-113	ND	263	--	ND	2020	--	U
156-60-5	trans-1,2-Dichloroethene	ND	263	--	ND	1040	--	U
75-34-3	1,1-Dichloroethane	ND	263	--	ND	1060	--	U
1634-04-4	Methyl tert butyl ether	ND	263	--	ND	948.	--	U
78-93-3	2-Butanone	ND	658	--	ND	1940	--	U
156-59-2	cis-1,2-Dichloroethene	ND	263	--	ND	1040	--	U
141-78-6	Ethyl Acetate	ND	658	--	ND	2370	--	U
67-66-3	Chloroform	ND	263	--	ND	1280	--	U
109-99-9	Tetrahydrofuran	ND	658	--	ND	1940	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-09D
 Client ID : SVP-103
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436810
 Sample Amount : 0.190 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 11:33
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 05:47
 Dilution Factor : 1316
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	263	--	ND	1060	--	U
110-54-3	n-Hexane	ND	263	--	ND	927.	--	U
71-55-6	1,1,1-Trichloroethane	ND	263	--	ND	1430	--	U
71-43-2	Benzene	ND	263	--	ND	840.	--	U
56-23-5	Carbon tetrachloride	ND	263	--	ND	1650	--	U
110-82-7	Cyclohexane	ND	263	--	ND	905.	--	U
78-87-5	1,2-Dichloropropane	ND	263	--	ND	1220	--	U
75-27-4	Bromodichloromethane	ND	263	--	ND	1760	--	U
123-91-1	1,4-Dioxane	ND	263	--	ND	948.	--	U
79-01-6	Trichloroethene	300	263	--	1610	1410	--	
540-84-1	2,2,4-Trimethylpentane	ND	263	--	ND	1230	--	U
142-82-5	Heptane	ND	263	--	ND	1080	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	263	--	ND	1190	--	U
108-10-1	4-Methyl-2-pentanone	ND	658	--	ND	2700	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	263	--	ND	1190	--	U
79-00-5	1,1,2-Trichloroethane	ND	263	--	ND	1430	--	U
108-88-3	Toluene	ND	263	--	ND	991.	--	U
591-78-6	2-Hexanone	ND	263	--	ND	1080	--	U
124-48-1	Dibromochloromethane	ND	263	--	ND	2240	--	U
106-93-4	1,2-Dibromoethane	ND	263	--	ND	2020	--	U
127-18-4	Tetrachloroethene	75300	263	--	511000	1780	--	
108-90-7	Chlorobenzene	ND	263	--	ND	1210	--	U
100-41-4	Ethylbenzene	ND	263	--	ND	1140	--	U
179601-23-1	p/m-Xylene	ND	526	--	ND	2280	--	U
75-25-2	Bromoform	ND	263	--	ND	2720	--	U
100-42-5	Styrene	ND	263	--	ND	1120	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-09D
Client ID : SVP-103
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : SOIL_VAPOR
Analytical Method : 48,TO-15
Lab File ID : R15436810
Sample Amount : 0.190 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/13/24 11:33
Date Received : 03/14/24
Date Analyzed : 03/30/24 05:47
Dilution Factor : 1316
Analyst : BJB
Instrument ID : AIRLAB15
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	263	--	ND	1810	--	U
95-47-6	o-Xylene	ND	263	--	ND	1140	--	U
622-96-8	4-Ethyltoluene	ND	263	--	ND	1290	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	263	--	ND	1290	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	263	--	ND	1290	--	U
100-44-7	Benzyl chloride	ND	263	--	ND	1360	--	U
541-73-1	1,3-Dichlorobenzene	ND	263	--	ND	1580	--	U
106-46-7	1,4-Dichlorobenzene	ND	263	--	ND	1580	--	U
95-50-1	1,2-Dichlorobenzene	ND	263	--	ND	1580	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	263	--	ND	1950	--	U
91-20-3	Naphthalene	ND	263	--	ND	1380	--	U
87-68-3	Hexachlorobutadiene	ND	263	--	ND	2810	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-10
 Client ID : SVP-204
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436807
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 11:57
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 03:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.529	0.200	--	2.62	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	15.7	1.00	--	37.3	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	1.37	0.500	--	4.15	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	1.90	0.200	--	5.92	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	4.37	0.500	--	12.9	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	9.47	0.200	--	46.2	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-10
 Client ID : SVP-204
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436807
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 11:57
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 03:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	0.339	0.200	--	2.27	1.34	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	0.548	0.200	--	2.25	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	52.2	0.200	--	354	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-10
 Client ID : SVP-204
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436807
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 11:57
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 03:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	0.430	0.200	--	2.25	1.05	--	
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-11
 Client ID : SVP-203
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436808
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 12:19
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 04:27
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.470	0.200	--	2.32	0.989	--	
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	1.33	0.200	--	3.51	0.528	--	
64-17-5	Ethanol	8.82	5.00	--	16.6	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	28.6	1.00	--	67.9	2.38	--	
75-69-4	Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--	
67-63-0	Isopropanol	0.643	0.500	--	1.58	1.23	--	
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	2.83	0.500	--	8.58	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	8.52	0.200	--	26.5	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	6.59	0.500	--	19.4	1.47	--	
156-59-2	cis-1,2-Dichloroethene	0.288	0.200	--	1.14	0.793	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	15.0	0.200	--	73.3	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-11
 Client ID : SVP-203
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436808
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 12:19
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 04:27
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	0.255	0.200	--	0.815	0.639	--	
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	1.01	0.200	--	6.77	1.34	--	
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	0.535	0.200	--	2.88	1.07	--	
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.385	0.200	--	1.45	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	2.88	0.200	--	19.5	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.548	0.400	--	2.38	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : L2414212-11
Client ID : SVP-203
Sample Location : FAR ROCKAWAY, NY
Sample Matrix : SOIL_VAPOR
Analytical Method : 48,TO-15
Lab File ID : R15436808
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/13/24 12:19
Date Received : 03/14/24
Date Analyzed : 03/30/24 04:27
Dilution Factor : 1
Analyst : BJB
Instrument ID : AIRLAB15
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-12
 Client ID : SVP-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436809
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 12:43
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 05:08
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.515	0.200	--	2.55	0.989	--	
74-87-3	Chloromethane	0.224	0.200	--	0.463	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	26.4	1.00	--	62.7	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	0.923	0.500	--	2.80	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	0.215	0.200	--	0.670	0.623	--	
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	6.54	0.500	--	19.3	1.47	--	
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-12
 Client ID : SVP-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436809
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 12:43
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 05:08
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.291	0.200	--	1.10	0.754	--	
591-78-6	2-Hexanone	0.975	0.200	--	4.00	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	0.717	0.200	--	4.86	1.36	--	
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-12
 Client ID : SVP-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : SOIL_VAPOR
 Analytical Method : 48,TO-15
 Lab File ID : R15436809
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/13/24 12:43
 Date Received : 03/14/24
 Date Analyzed : 03/30/24 05:08
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902103-4
 Client ID : WG1902103-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223419
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/28/24 16:41
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902103-4
 Client ID : WG1902103-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223419
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/28/24 16:41
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Lab ID : WG1902103-4	Date Collected : NA
Client ID : WG1902103-4BLANK	Date Received : NA
Sample Location :	Date Analyzed : 03/28/24 16:41
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15	Analyst : JMB
Lab File ID : R223419	Instrument ID : AIRLAB22
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary Form 1 Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902103-5
 Client ID : IAQ-1DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223430
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:47
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	0.475	0.200	--	2.35	0.989	--	
74-87-3	Chloromethane	0.747	0.200	--	1.54	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	2230	5.00	--	4200E	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5190	1.00	--	12300E	2.38	--	E
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	995	0.500	--	2450E	1.23	--	E
75-65-0	Tertiary butyl Alcohol	2.36	0.500	--	7.15	1.52	--	
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	312	0.500	--	1120E	1.80	--	E
67-66-3	Chloroform	1.32	0.200	--	6.45	0.977	--	
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.293	0.200	--	0.936	0.639	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902103-5
 Client ID : IAQ-1DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R223430
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:47
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	7.26	0.200	--	27.4	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	0.272	0.200	--	1.18	0.869	--	
179601-23-1	p/m-Xylene	1.21	0.400	--	5.26	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.216	0.200	--	0.938	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : WG1902103-5
Client ID : IAQ-1DUP
Sample Location :
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223430
Sample Amount : 250 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:06
Date Received : 03/14/24
Date Analyzed : 03/28/24 22:47
Dilution Factor : 1
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
Project Name : BELLE HARBOR
Lab ID : WG1902103-5D
Client ID : IAQ-1DUP
Sample Location :
Sample Matrix : AIR
Analytical Method : 48,TO-15
Lab File ID : R223443
Sample Amount : 1.91 ml

Lab Number : L2414212
Project Number : 195601412
Date Collected : 03/12/24 18:06
Date Received : 03/14/24
Date Analyzed : 03/29/24 09:52
Dilution Factor : 130.9
Analyst : JMB
Instrument ID : AIRLAB22
GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
64-17-5	Ethanol	2790	654	--	5260	1230	--	
67-64-1	Acetone	36500	131	--	86700	311.	--	
67-63-0	Isopropanol	1440	65.4	--	3540	161.	--	
141-78-6	Ethyl Acetate	311	65.4	--	1120	236.	--	



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902670-4
 Client ID : WG1902670-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R15436791
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/29/24 15:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902670-4
 Client ID : WG1902670-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R15436791
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/29/24 15:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.200	--	ND	1.09	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U
56-23-5	Carbon tetrachloride	ND	0.200	--	ND	1.26	--	U
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
79-01-6	Trichloroethene	ND	0.200	--	ND	1.07	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	ND	0.200	--	ND	0.754	--	U
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
127-18-4	Tetrachloroethene	ND	0.200	--	ND	1.36	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U



Results Summary

Form 1

Volatile Organics in Air

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902670-4
 Client ID : WG1902670-4BLANK
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15
 Lab File ID : R15436791
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : NA
 Date Received : NA
 Date Analyzed : 03/29/24 15:45
 Dilution Factor : 1
 Analyst : BJB
 Instrument ID : AIRLAB15
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
106-46-7	1,4-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.200	--	ND	1.48	--	U
91-20-3	Naphthalene	ND	0.200	--	ND	1.05	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223424.D
 Acq On : 28 Mar 2024 7:35 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-08,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:39:47 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.463	49	204668M4	10.000	ppbV	0.01
Standard Area =	222450		Recovery =		92.01%	
43) 1,4-difluorobenzene	5.390	114	567291	10.000	ppbV	0.01
Standard Area =	633782		Recovery =		89.51%	
67) chlorobenzene-D5	7.353	54	83958	10.000	ppbV #	0.00
Standard Area =	85965		Recovery =		97.67%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.230	85	8140M3	0.494	ppbV	
6) chloromethane	2.335	50	5422	0.606	ppbV	94
7) Freon-114	2.395		0	N.D.		
10) 1,3-butadiene	2.530		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	22308	6.786	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.995	43	83165M6	12.630	ppbV	
21) trichlorofluoromethane	3.076	101	2280	0.259	ppbV	93
22) isopropyl alcohol	3.106	45	10427	0.955	ppbV	99
27) tertiary butyl alcohol	3.405		0	N.D.		
28) methylene chloride	3.435	49	2622	0.162	ppbV	86
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.575		0	N.D.		
31) Freon 113	3.560	101	1693	0.069	ppbV #	89
32) trans-1,2-dichloroethene	3.983		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.177	43	9576	0.288	ppbV	96
38) Ethyl Acetate	4.490	61	329	0.064	ppbV #	1
39) chloroform	4.530		0	N.D.		
40) Tetrahydrofuran	4.730		0	N.D.		
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	4.490	57	8042	0.401	ppbV #	11
50) benzene	5.223	78	11854	0.280	ppbV	95
53) cyclohexane	5.357	56	2450	0.107	ppbV #	89
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223424.D
 Acq On : 28 Mar 2024 7:35 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-08,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:39:47 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

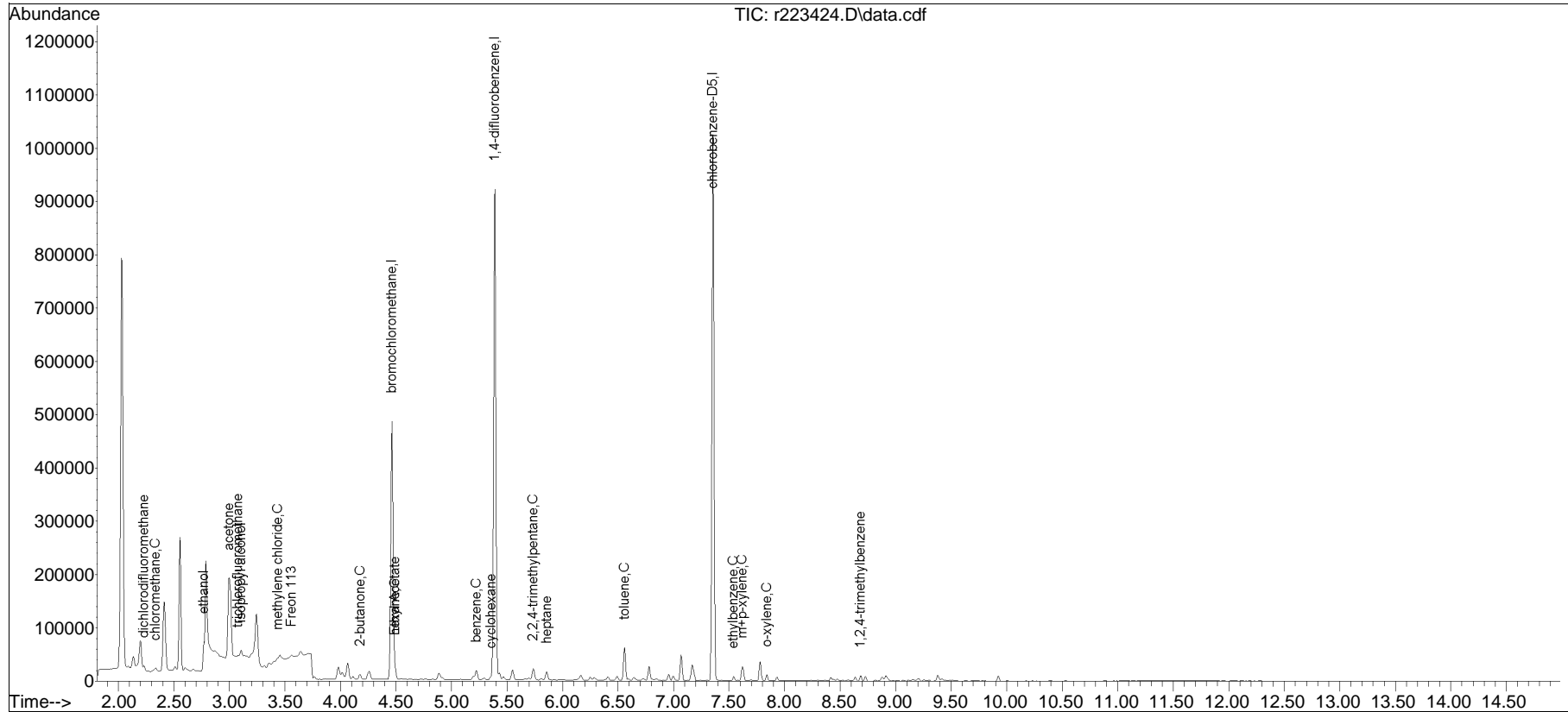
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	5.697		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	13532	0.211	ppbV #	89
62) heptane	5.857	43	5544	0.219	ppbV	94
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	29212	0.417	ppbV	100
72) 2-hexanone	0.000		0		N.D.	d
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.380		0		N.D.	
81) ethylbenzene	7.540	91	4801	0.057	ppbV	96
83) m+p-xylene	7.620	91	12172	0.185	ppbV	91
84) bromoform	0.000		0		N.D.	
85) styrene	7.793		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840	91	5174	0.080	ppbV	88
96) 4-ethyl toluene	8.433		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683	105	4638	0.062	ppbV #	57
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	0.000		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

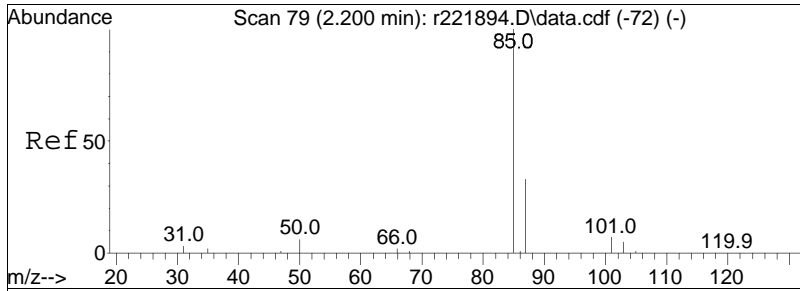
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223424.D
Acq On : 28 Mar 2024 7:35 PM
Operator : AIRLAB22:JMB
Sample : L2414212-08,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

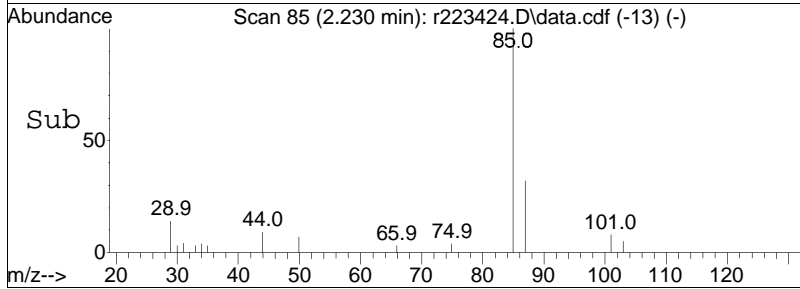
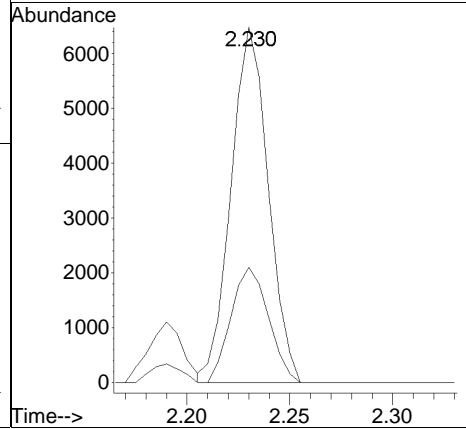
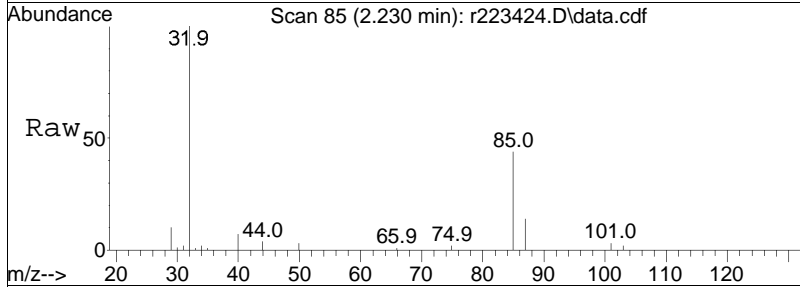
Quant Time: Mar 29 07:39:47 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

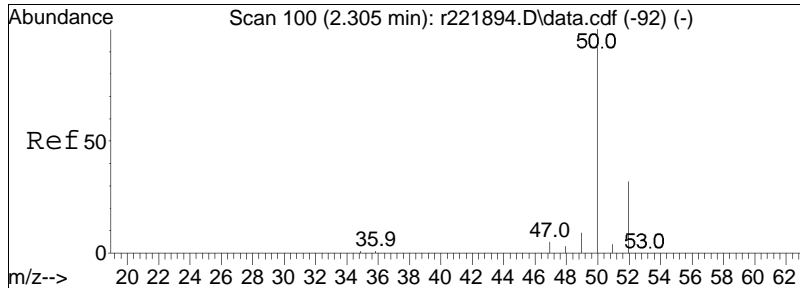




#5
dichlorodifluoromethane
Concen: 0.49 ppbV m
RT: 2.230 min Scan# 85
Delta R.T. 0.030 min
Lab File: r223424.D
Acq: 28 Mar 2024 7:35 PM

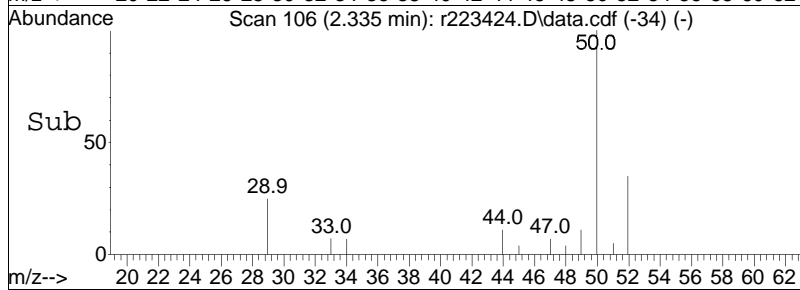
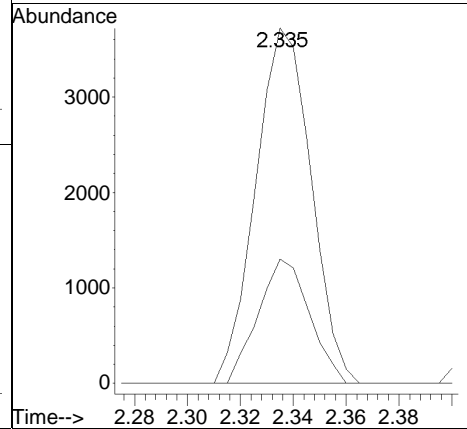
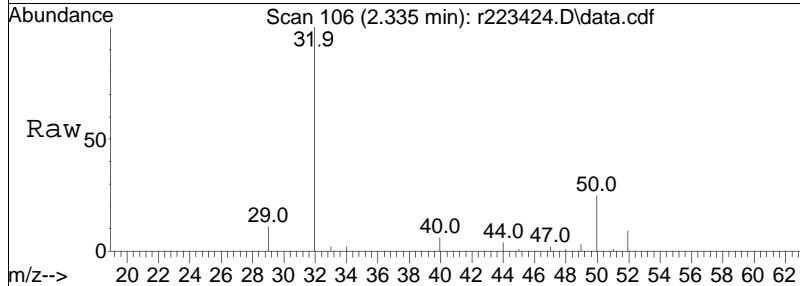
Tgt Ion: 85 Resp: 8140
Ion Ratio Lower Upper
85 100
87 32.4 26.3 39.5

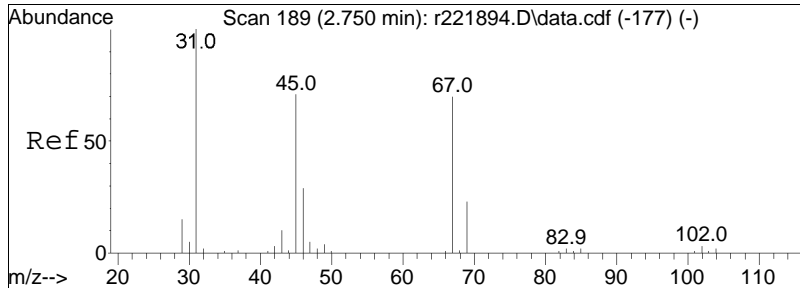




#6
 chloromethane
 Concen: 0.61 ppbV
 RT: 2.335 min Scan# 106
 Delta R.T. 0.030 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

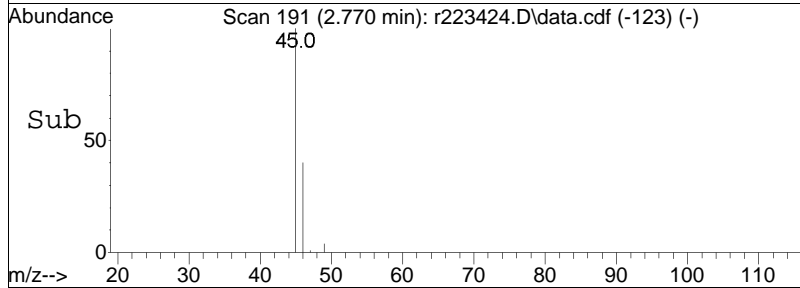
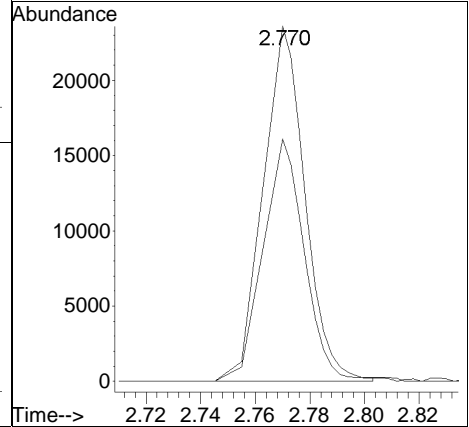
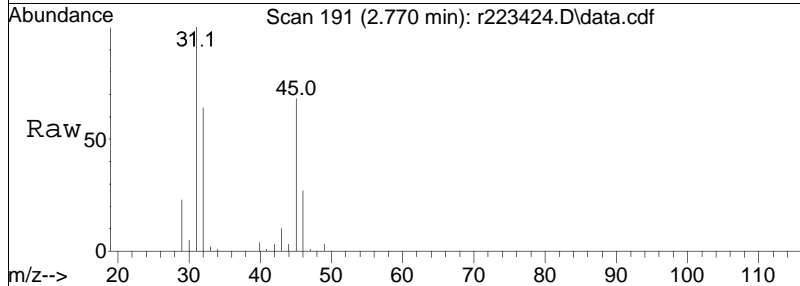
Tgt Ion	Resp	Lower	Upper
50	5422		
50	100		
52	35.0	25.5	38.3

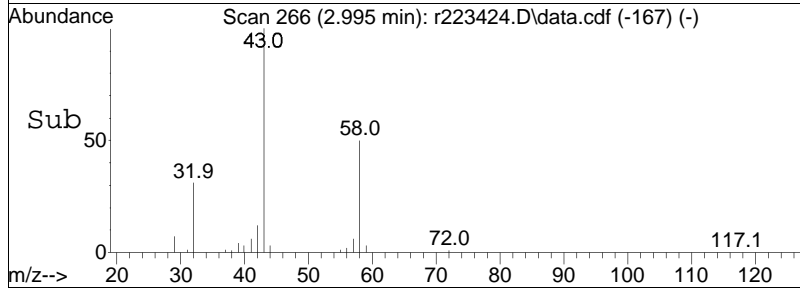
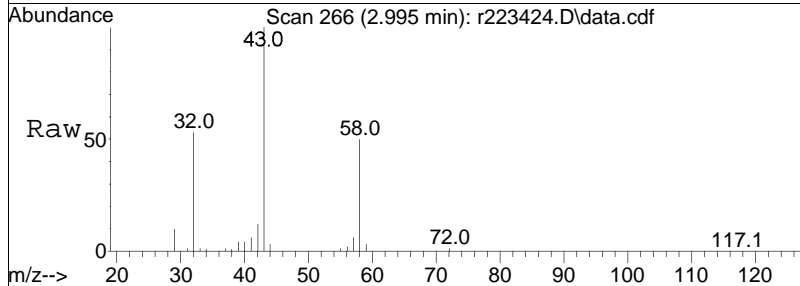
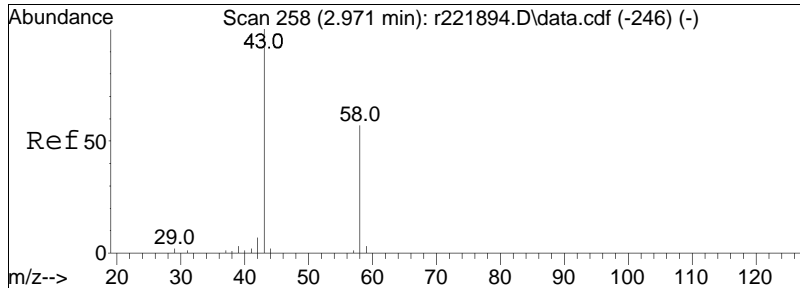




#15
 ethanol
 Concen: 6.79 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

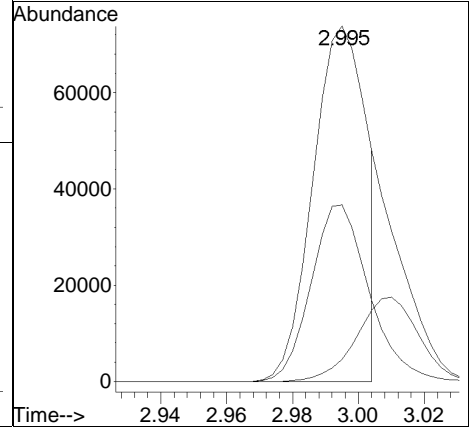
Tgt Ion:	31	Resp:	22308
Ion Ratio	Lower	Upper	
31	100		
45	68.2	56.6	84.8

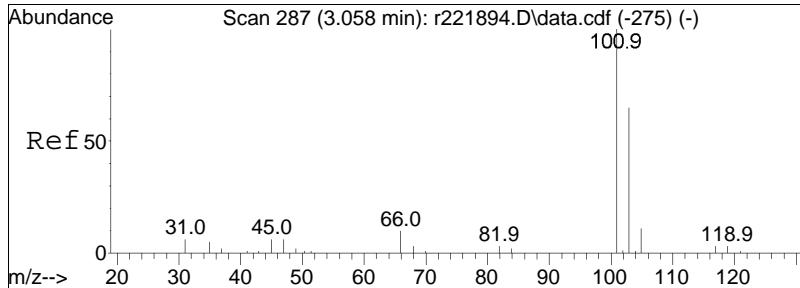




#19
 acetone
 Concen: 12.63 ppbV m
 RT: 2.995 min Scan# 266
 Delta R.T. 0.024 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

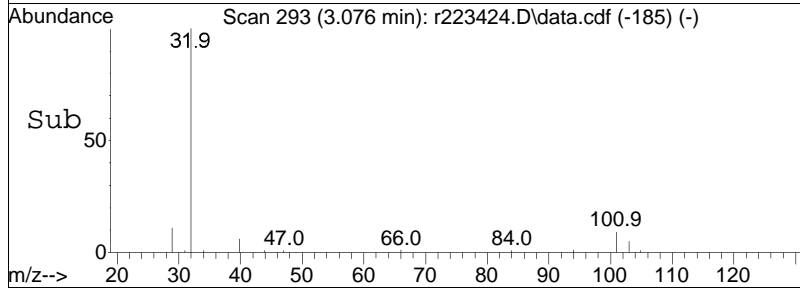
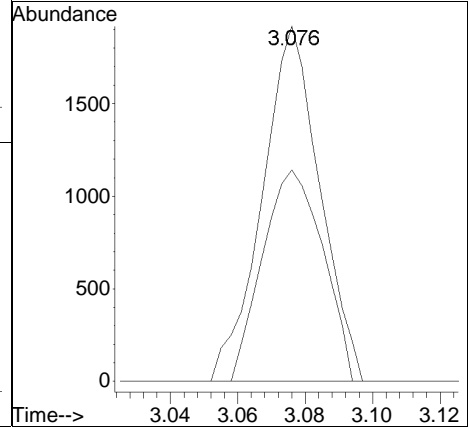
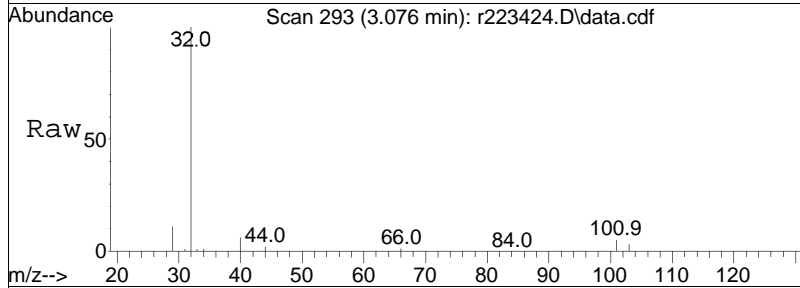
Tgt Ion:	43	58	57	Resp:	83165	Lower	Upper
Ion Ratio	100	49.7	6.2				
		45.5	1.0				
		68.3	1.6#				

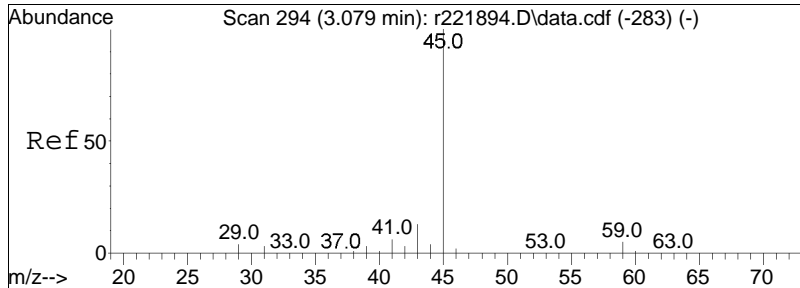




#21
 trichlorofluoromethane
 Concen: 0.26 ppbV
 RT: 3.076 min Scan# 293
 Delta R.T. 0.018 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

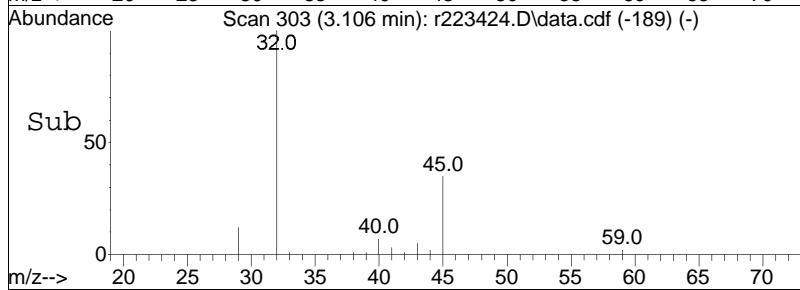
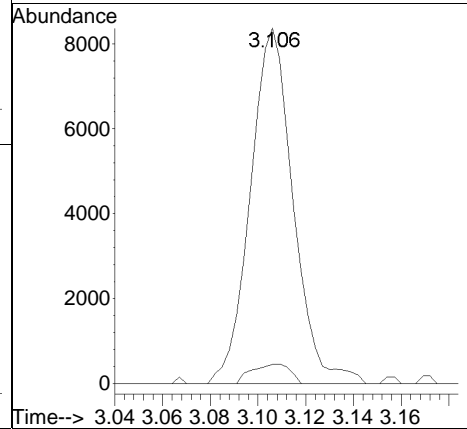
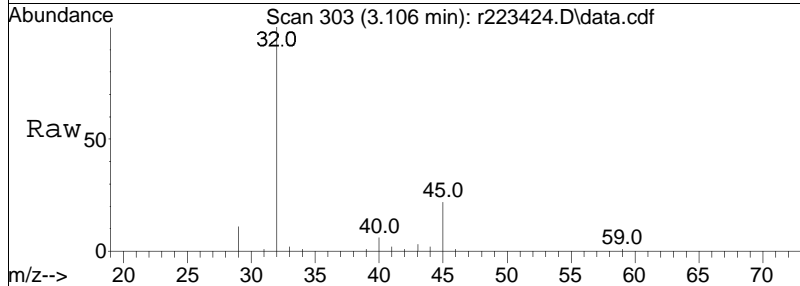
Tgt Ion	Resp	Lower	Upper
101	2280		
101	100		
103	59.5	52.2	78.4

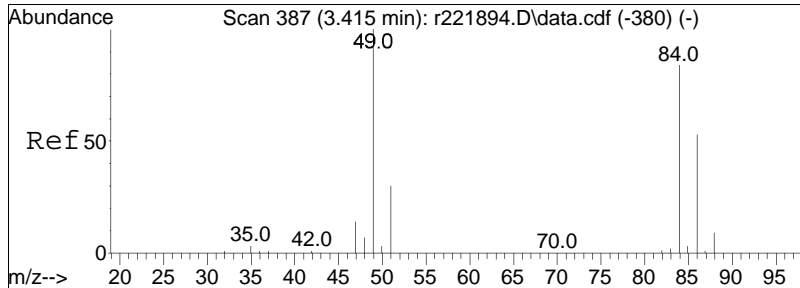




#22
 isopropyl alcohol
 Concen: 0.96 ppbV
 RT: 3.106 min Scan# 303
 Delta R.T. 0.027 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

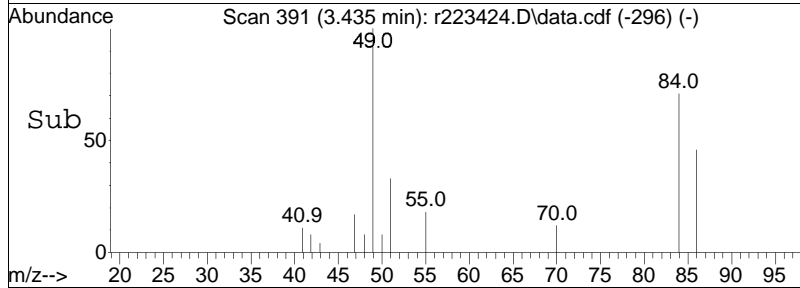
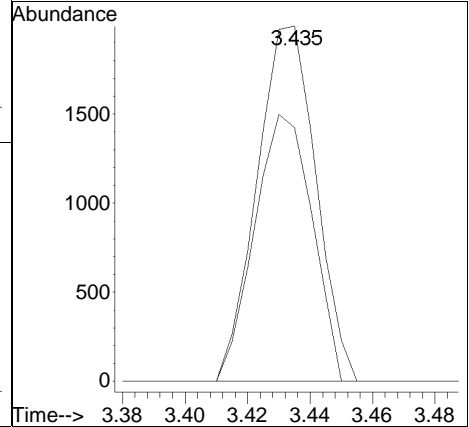
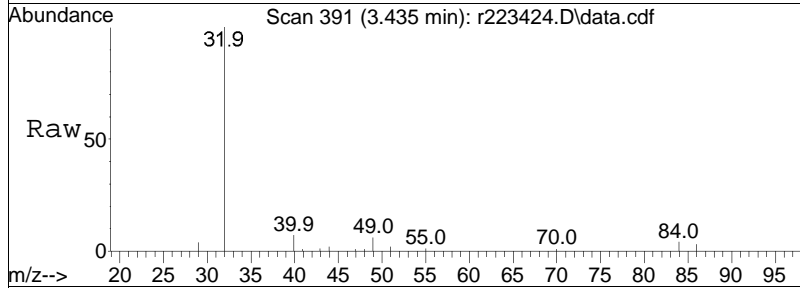
Tgt Ion:	45	59	Resp:	10427
Ion Ratio	100	5.3	Lower	Upper
			4.0	6.0

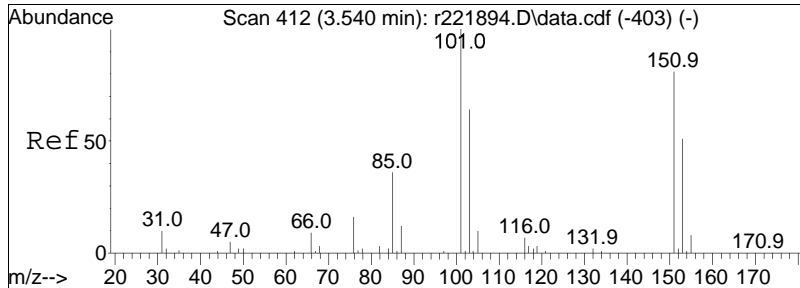




#28
 methylene chloride
 Concen: 0.16 ppbV
 RT: 3.435 min Scan# 391
 Delta R.T. 0.020 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

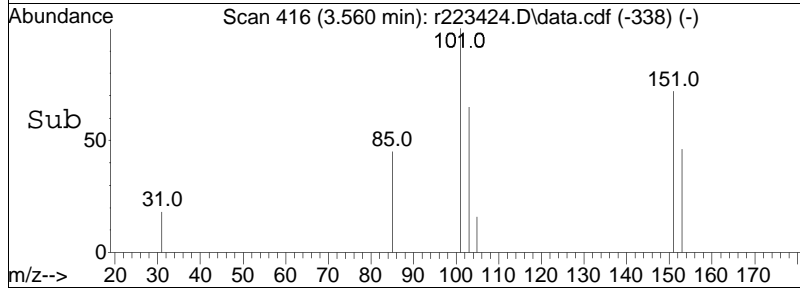
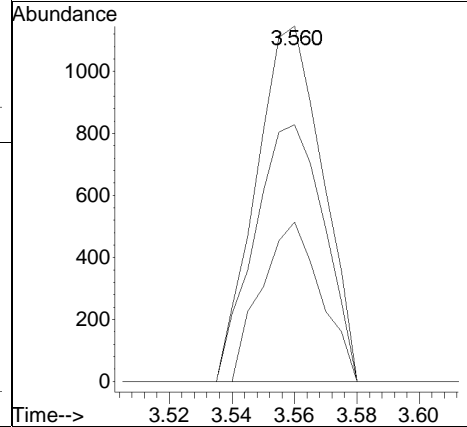
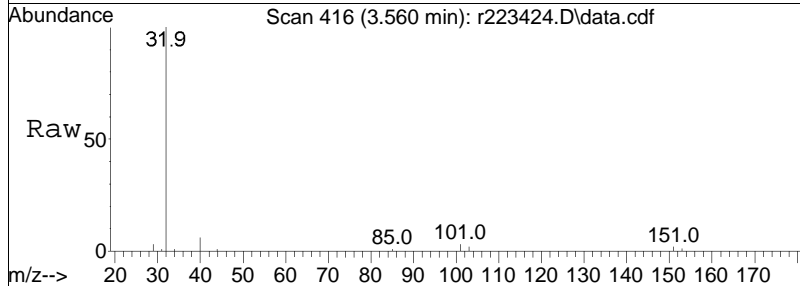
Tgt Ion:	49	84	Resp:	2622
Ion Ratio	100	71.4	Lower	Upper
			67.2	100.8

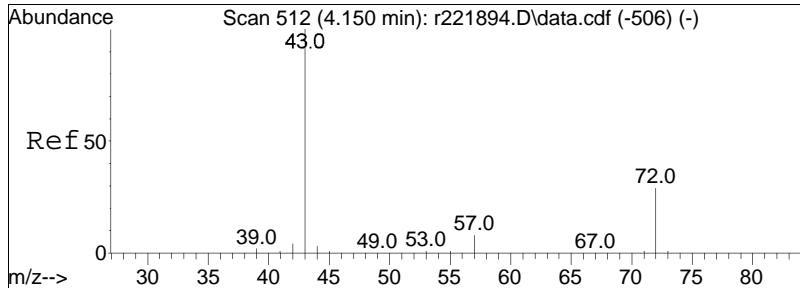




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.560 min Scan# 416
 Delta R.T. 0.020 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

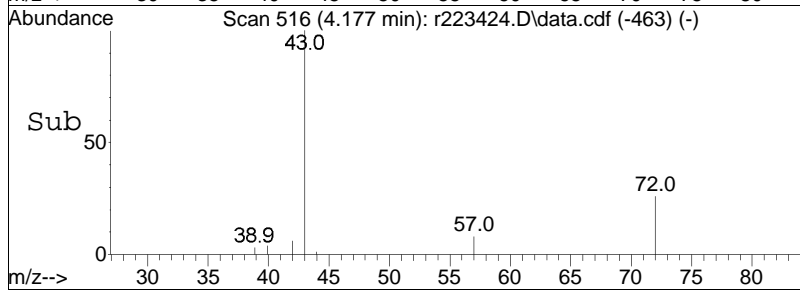
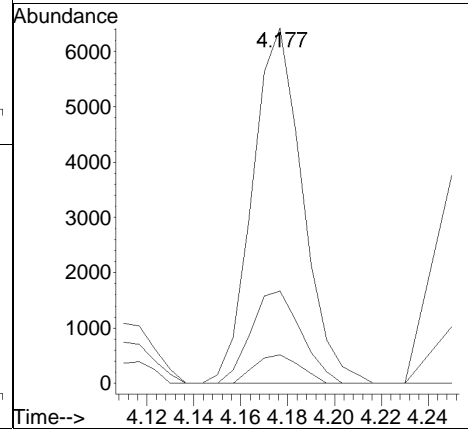
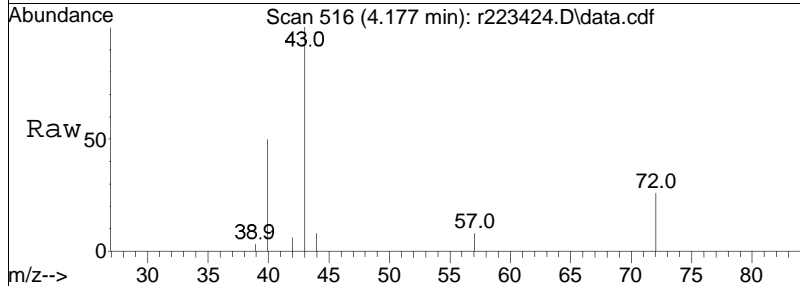
Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.9	28.6	43.0#
151	72.3	64.6	97.0

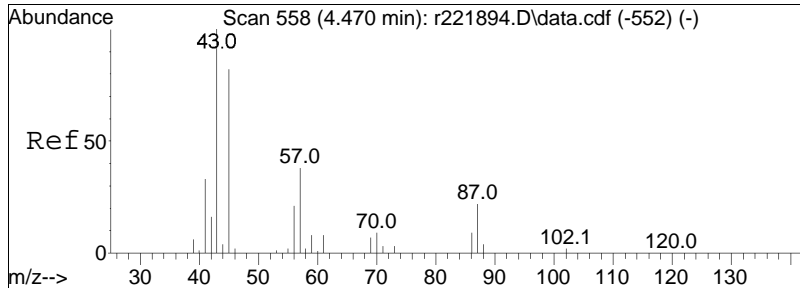




#36
 2-butanone
 Concen: 0.29 ppbV
 RT: 4.177 min Scan# 516
 Delta R.T. 0.027 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

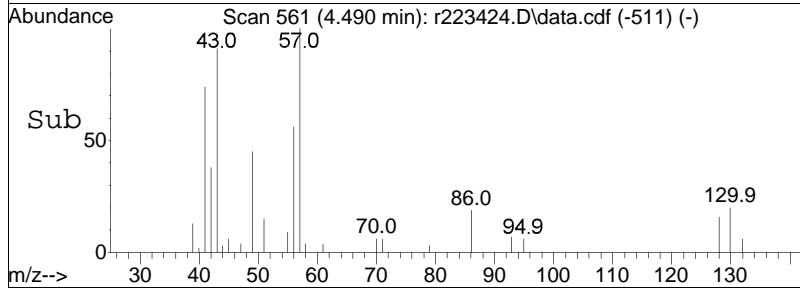
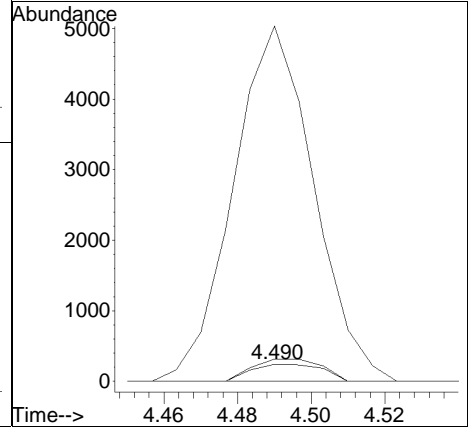
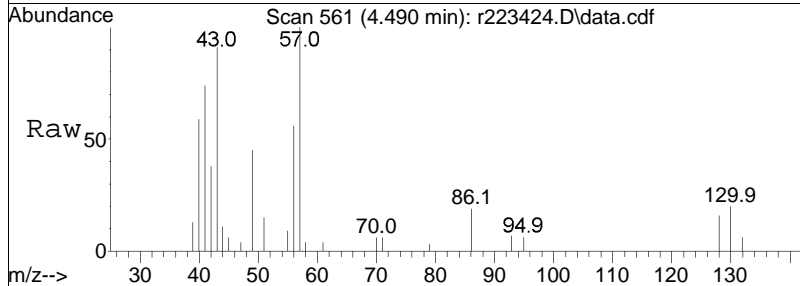
Tgt Ion	Resp	Lower	Upper
43	9576		
72	26.0	23.0	34.6
57	8.1	6.3	9.5

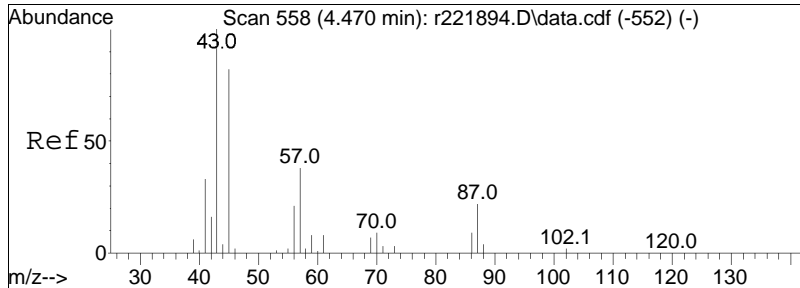




#38
 Ethyl Acetate
 Concen: 0.06 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

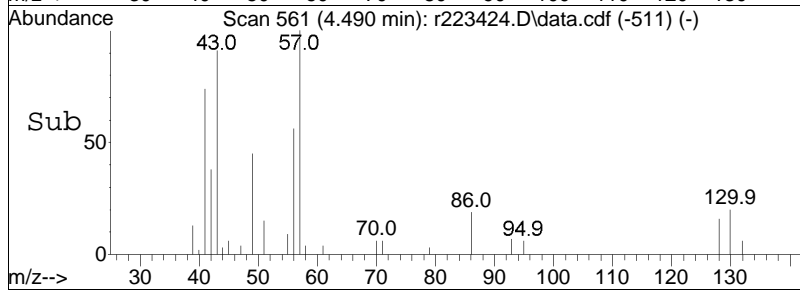
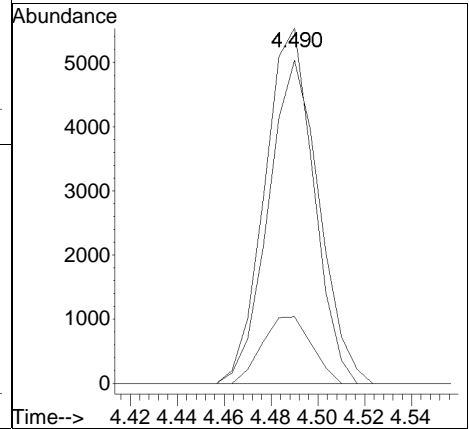
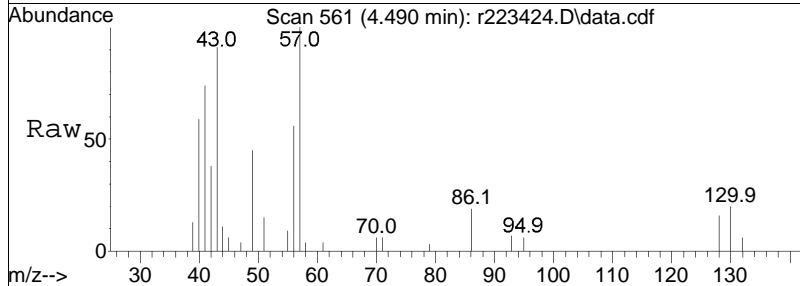
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	130.6	91.7	137.5
43	2080.2	971.0	1456.6#

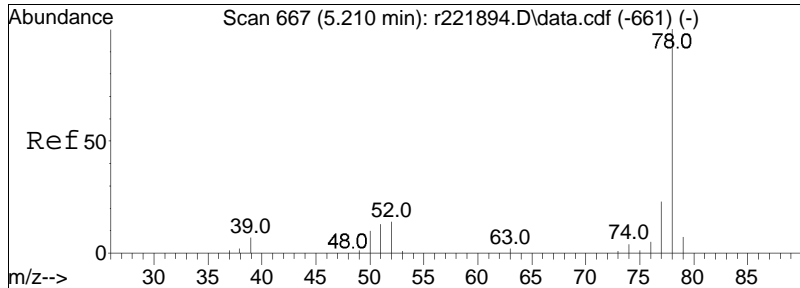




#44
 hexane
 Concen: 0.40 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

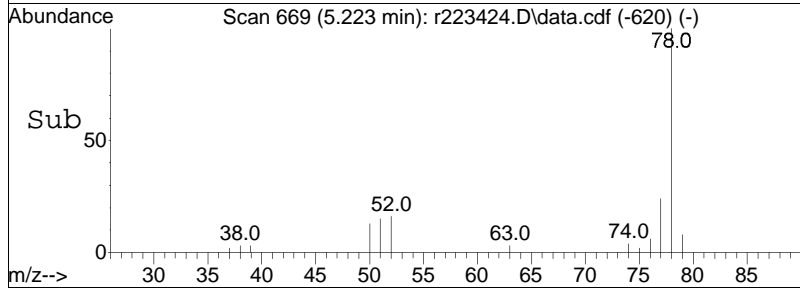
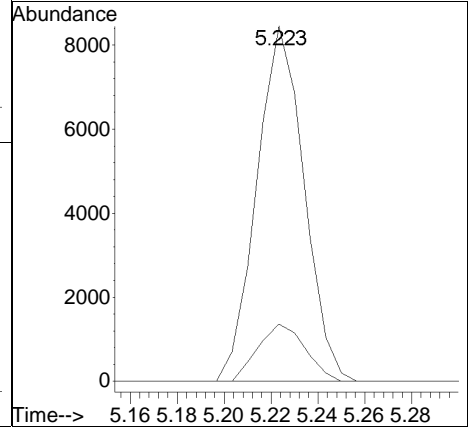
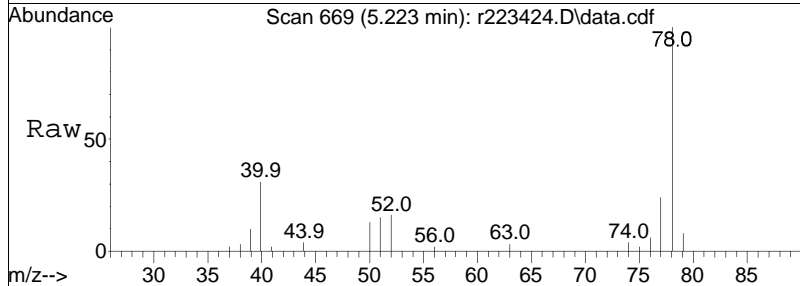
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	90.9	210.8	316.2#
86	18.7	17.9	26.9

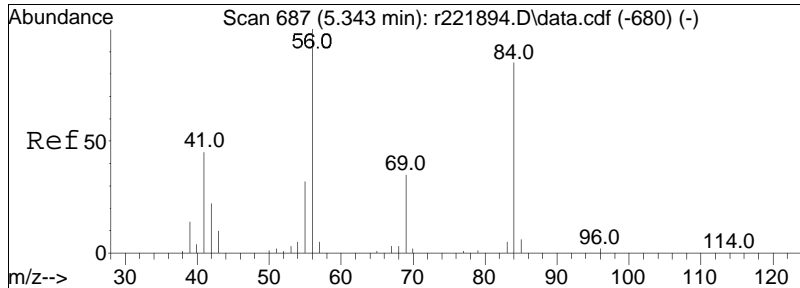




#50
benzene
Concen: 0.28 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223424.D
Acq: 28 Mar 2024 7:35 PM

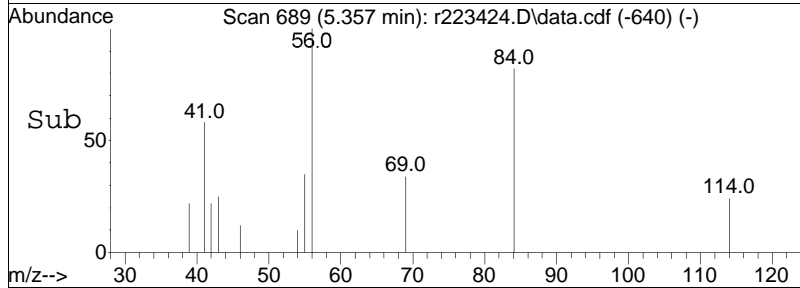
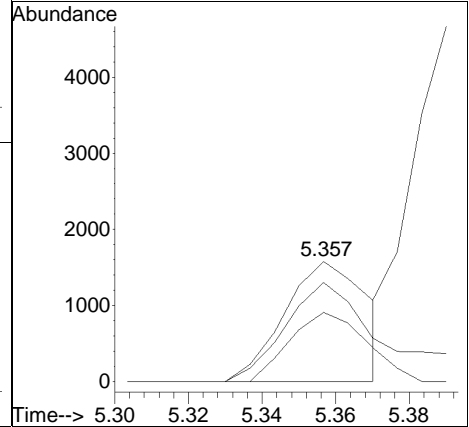
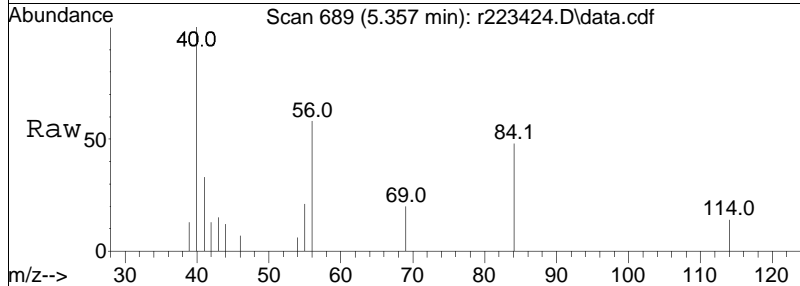
Tgt Ion:	78	Resp:	11854
Ion Ratio	Lower	Upper	
78	100		
52	16.1	11.3	16.9

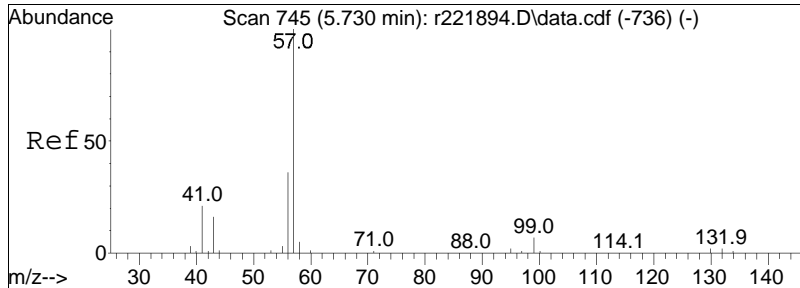




#53
 cyclohexane
 Concen: 0.11 ppbV
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

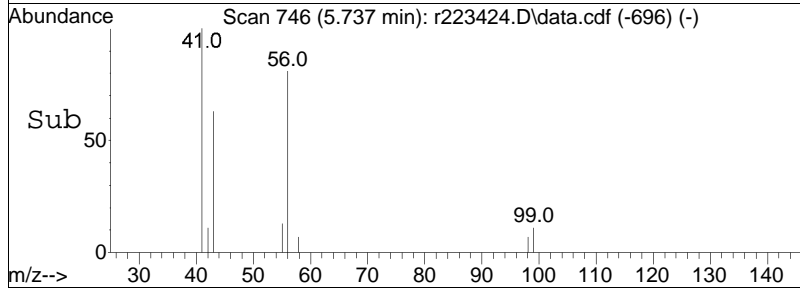
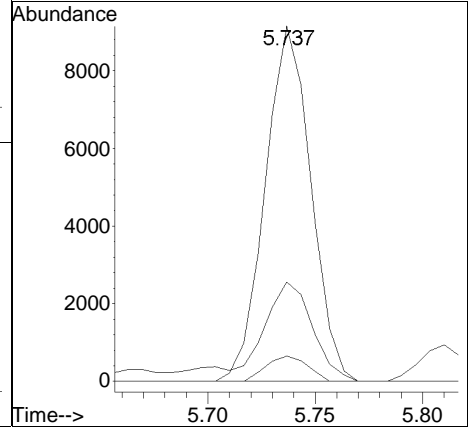
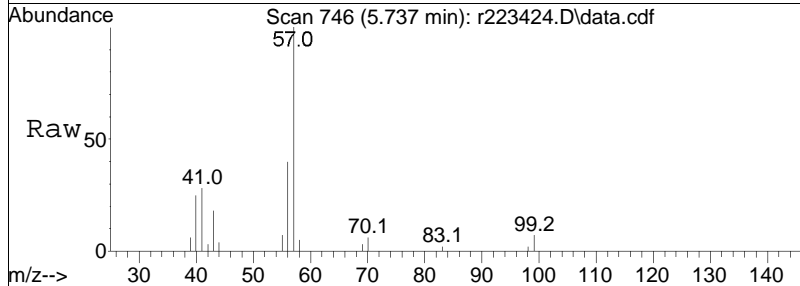
Tgt Ion	Resp	Lower	Upper
56	100		
84	82.4	70.9	106.3
41	57.5	35.8	53.6#

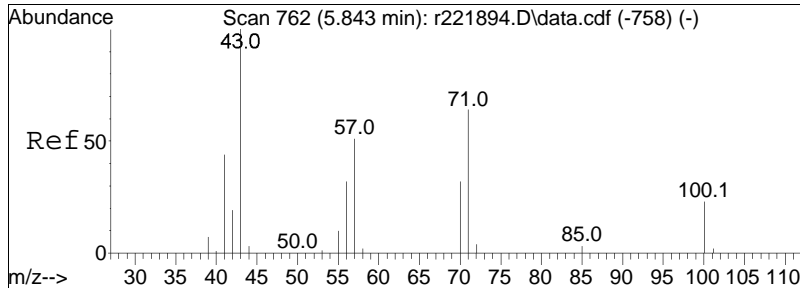




#60
 2,2,4-trimethylpentane
 Concen: 0.21 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

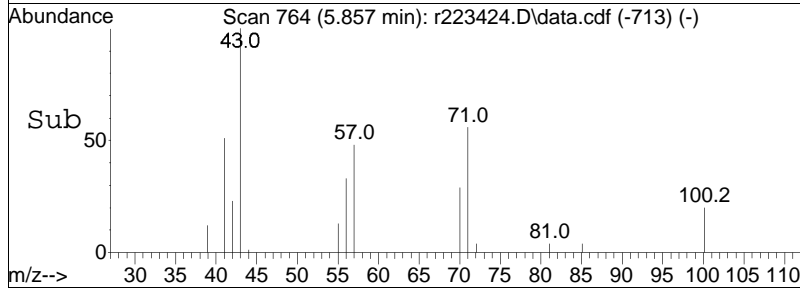
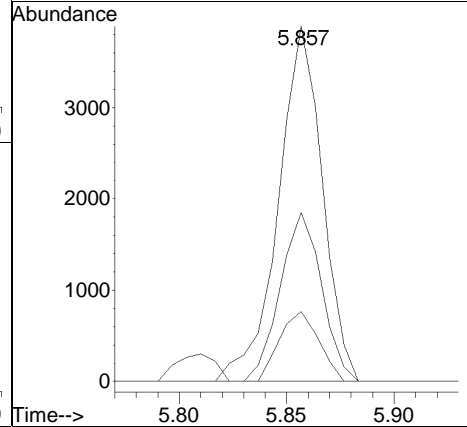
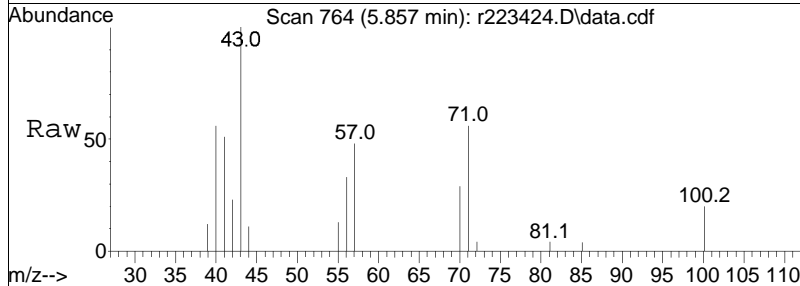
Tgt Ion	Resp	Lower	Upper
57	100		
99	7.1	5.7	8.5
41	28.0	16.9	25.3#

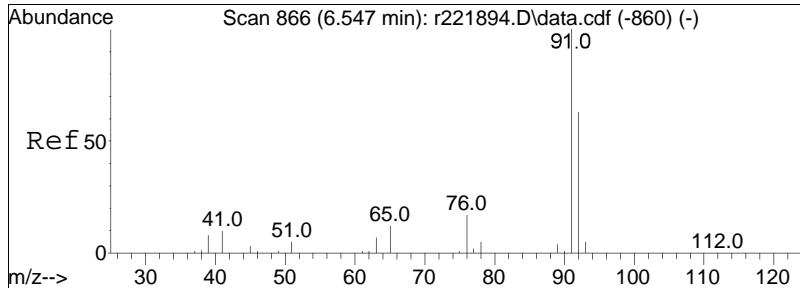




#62
 heptane
 Concen: 0.22 ppbV
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

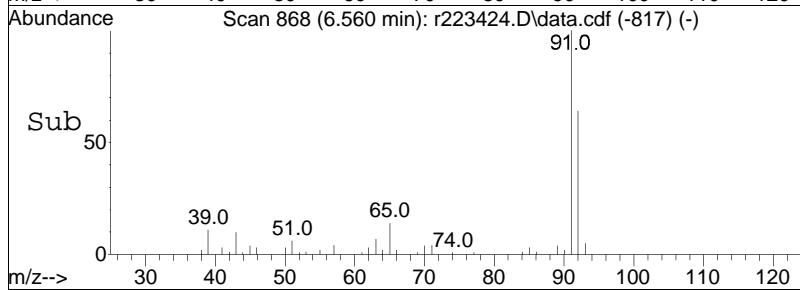
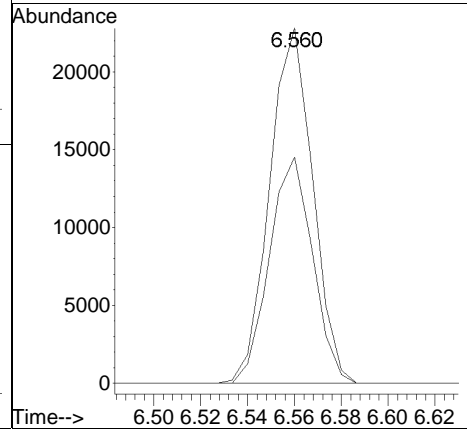
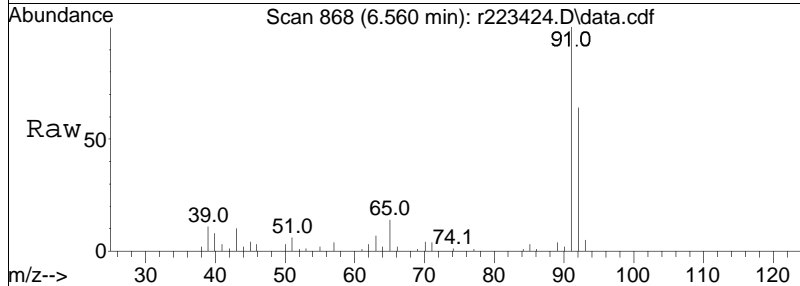
Tgt Ion:	43	Resp:	5544
Ion Ratio	Lower	Upper	
43	100		
57	47.5	40.4	60.6
100	19.7	19.0	28.6

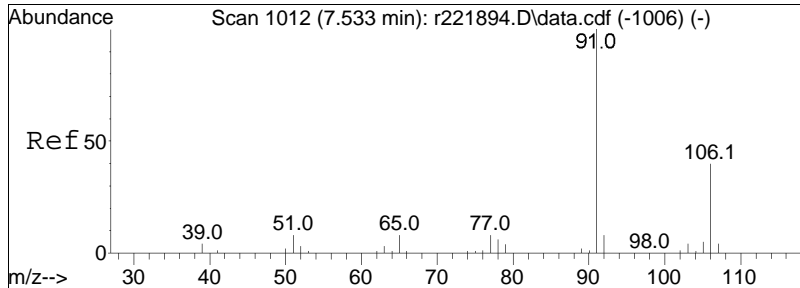




#68
 toluene
 Concen: 0.42 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

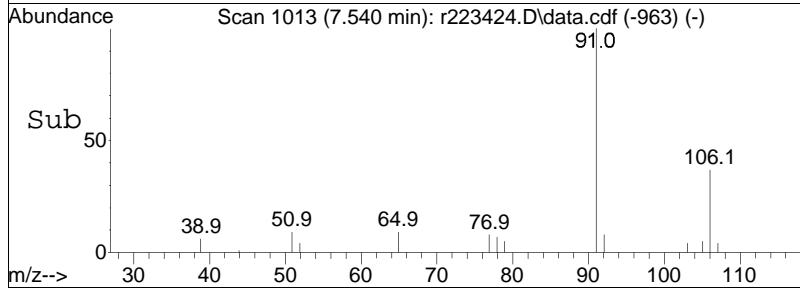
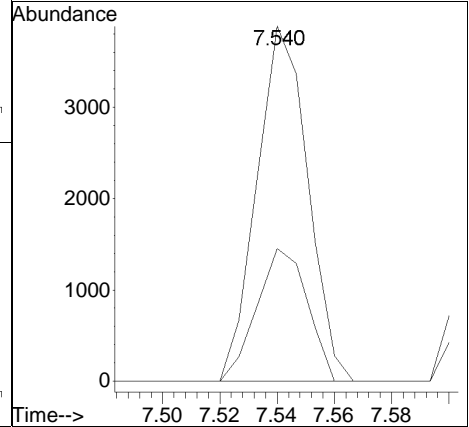
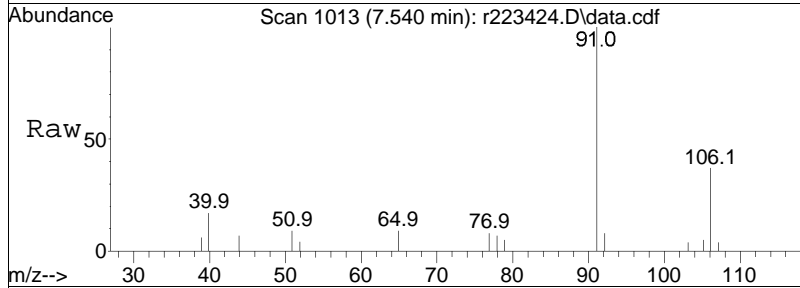
Tgt Ion:	91	Resp:	29212
Ion Ratio	Lower	Upper	
91	100		
92	63.7	50.7	76.1

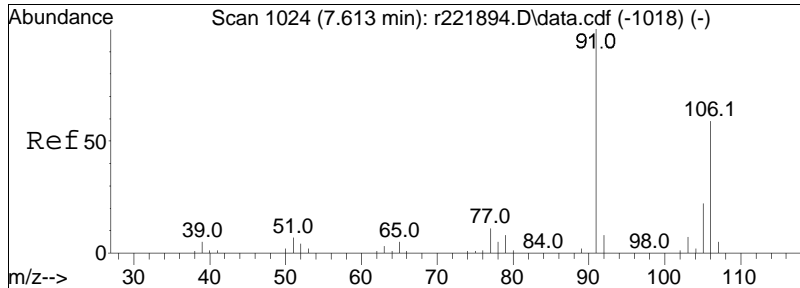




#81
 ethylbenzene
 Concen: 0.06 ppbV
 RT: 7.540 min Scan# 1013
 Delta R.T. 0.007 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

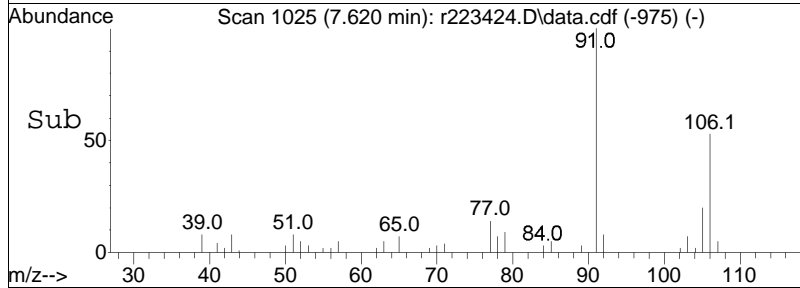
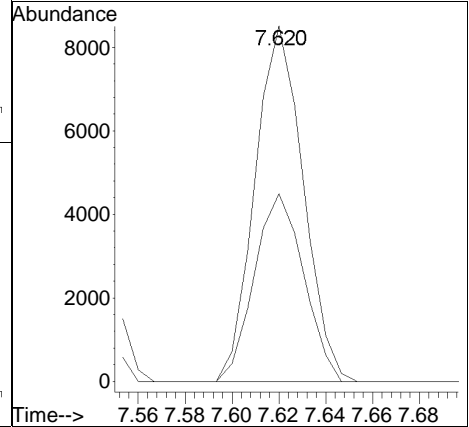
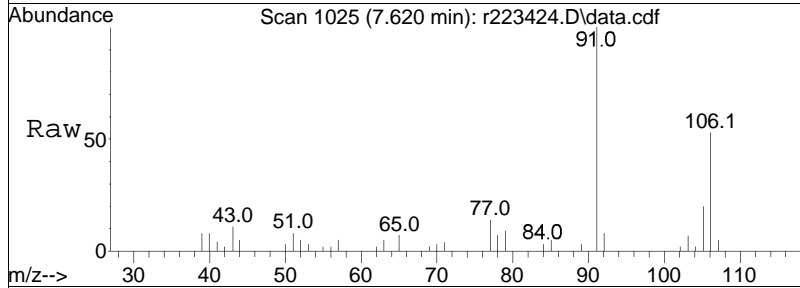
Tgt Ion	Resp	Lower	Upper
91	100		
106	37.4	31.7	47.5

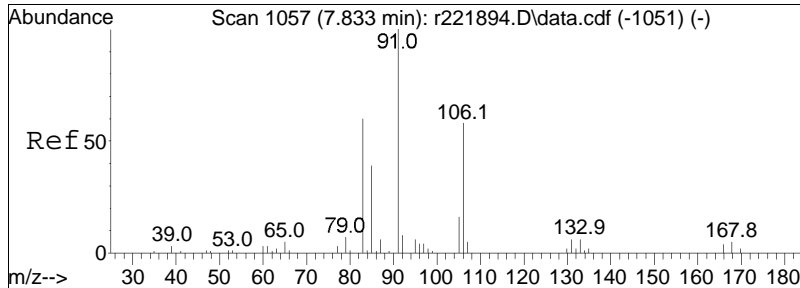




#83
 m+p-xylene
 Concen: 0.18 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

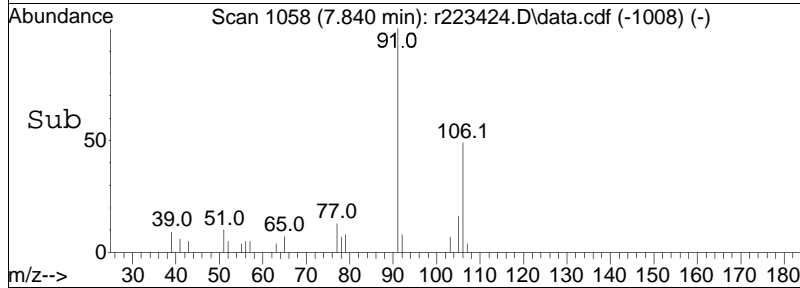
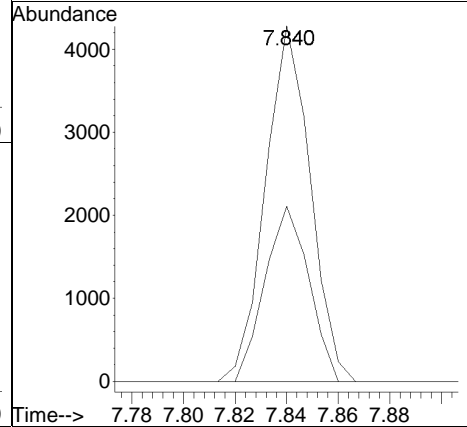
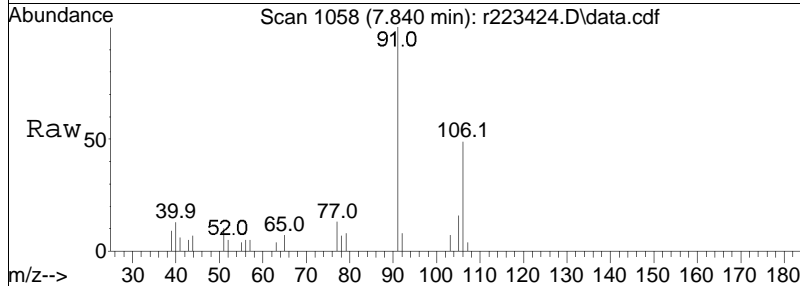
Tgt Ion: 91 Resp: 12172
 Ion Ratio Lower Upper
 91 100
 106 52.8 47.4 71.2

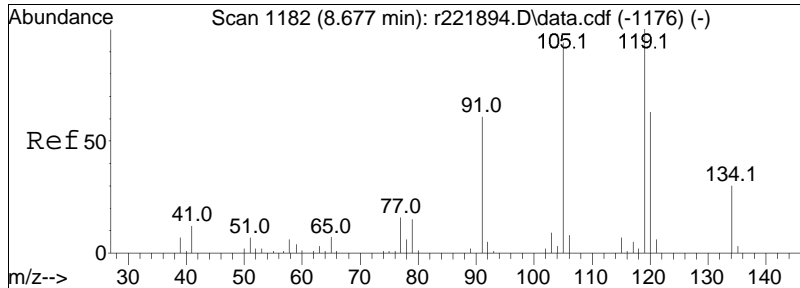




#87
 o-xylene
 Concen: 0.08 ppbV
 RT: 7.840 min Scan# 1058
 Delta R.T. 0.007 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

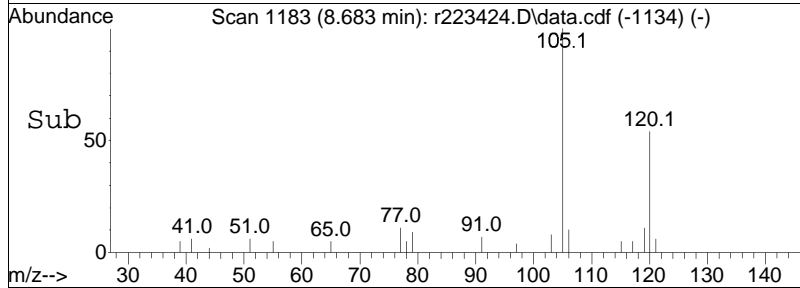
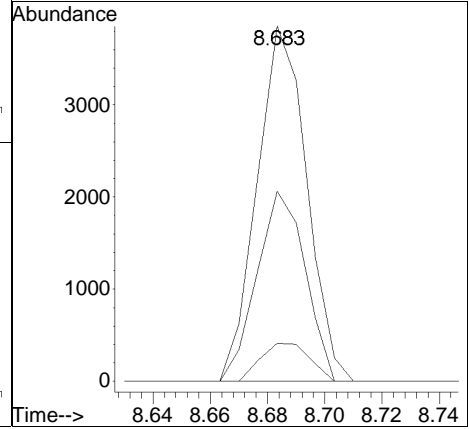
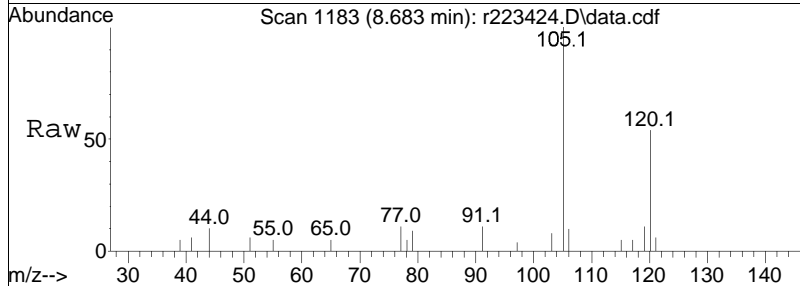
Tgt Ion:	91	Resp:	5174
Ion Ratio	Lower	Upper	
91	100		
106	49.3	46.2	69.4





#99
 1,2,4-trimethylbenzene
 Concen: 0.06 ppbV
 RT: 8.683 min Scan# 1183
 Delta R.T. 0.007 min
 Lab File: r223424.D
 Acq: 28 Mar 2024 7:35 PM

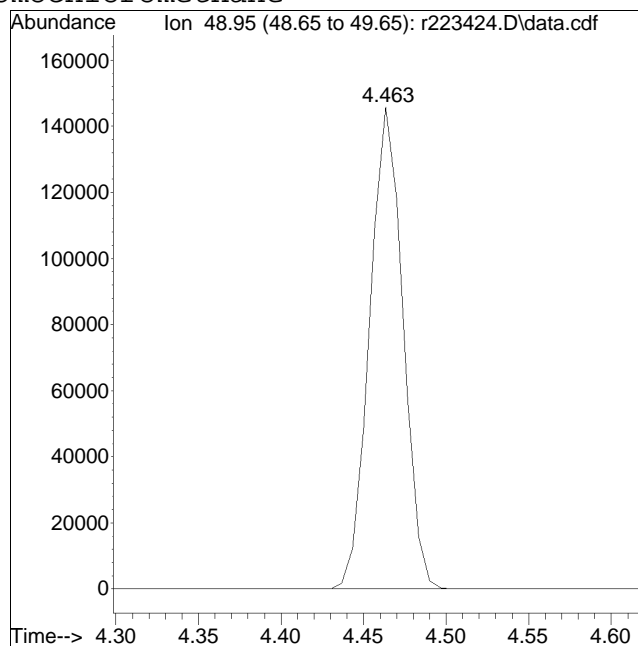
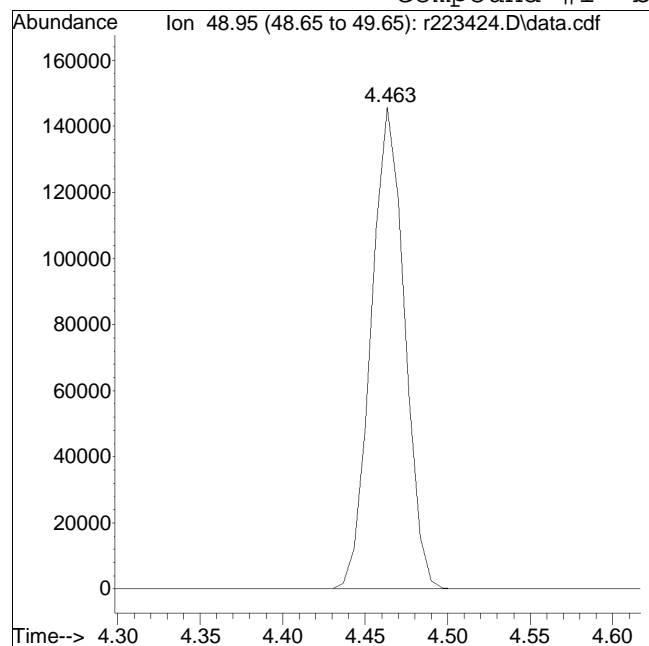
Tgt Ion	Ratio	Lower	Upper
105	100		
120	53.5	53.8	80.8#
91	10.7	52.2	78.2#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223424.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:7: 5 Instrument :
Sample : L2414212-08,3,250,250 Quant Date : 3/29/2024 7:39 am

Compound #1: bromochloromethane



Original Peak Response = 204668

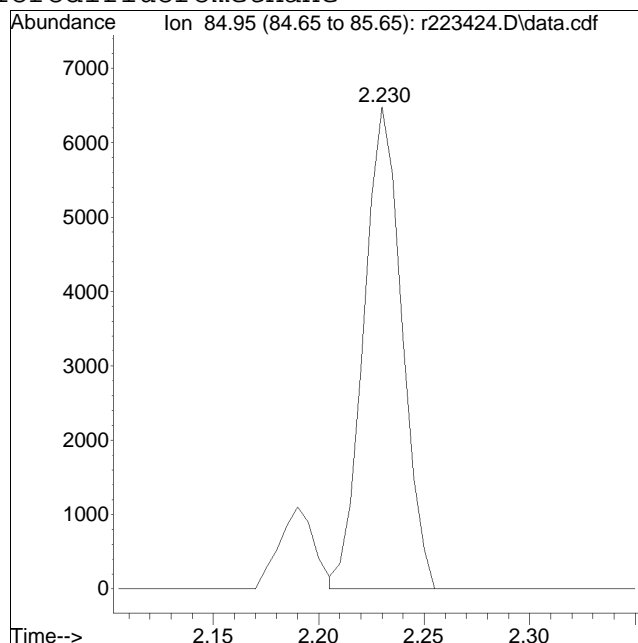
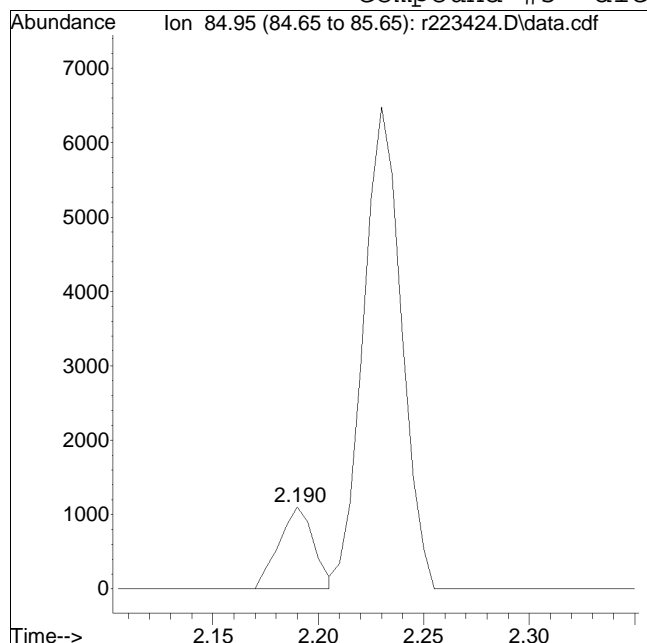
Manual Peak Response = 204668 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223424.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:7: 5 Instrument :
Sample : L2414212-08,3,250,250 Quant Date : 3/29/2024 7:39 am

Compound #5: dichlorodifluoromethane



Original Peak Response = 1270

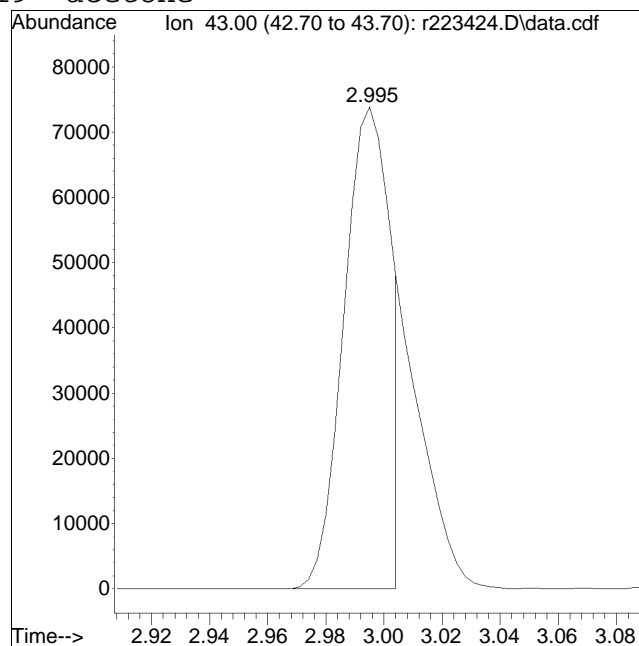
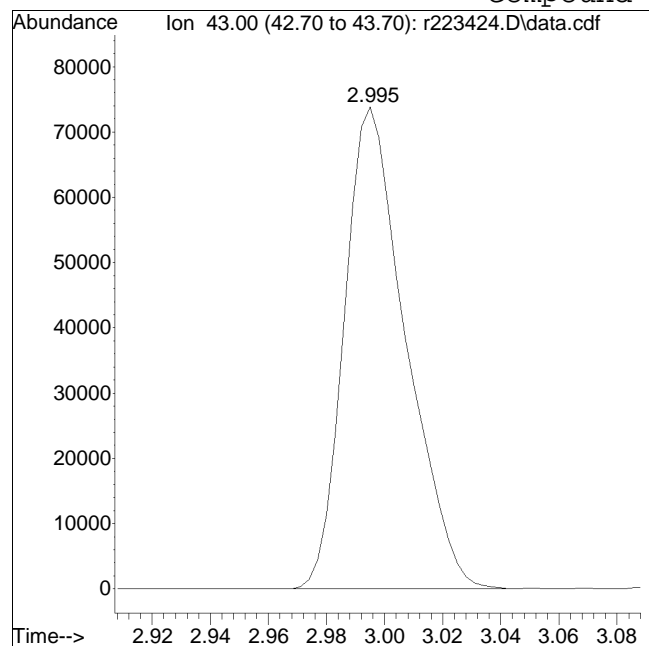
Manual Peak Response = 8140 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223424.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:7: 5 Instrument :
Sample : L2414212-08,3,250,250 Quant Date : 3/29/2024 7:39 am

Compound #19: acetone



Original Peak Response = 108583

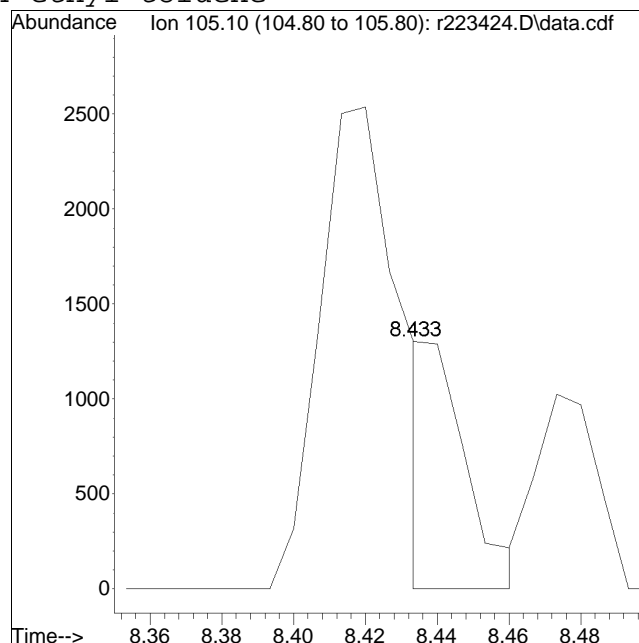
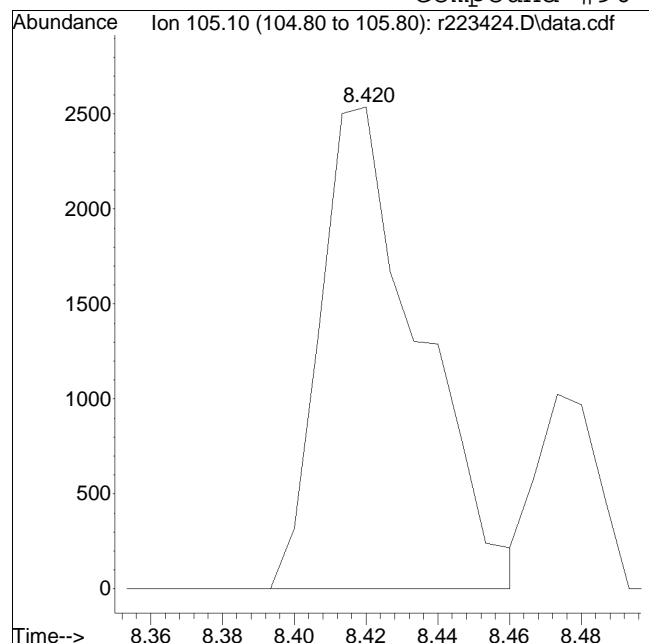
Manual Peak Response = 83165 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223424.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:7: 5 Instrument :
Sample : L2414212-08,3,250,250 Quant Date : 3/29/2024 7:39 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4879

Manual Peak Response = 1013 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223425.D
 Acq On : 28 Mar 2024 8:09 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-01,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:04 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	201787	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	90.71%		
43) 1,4-difluorobenzene	5.390	114	560710	10.000	ppbV	# 0.01
Standard Area =	633782		Recovery =	88.47%		
67) chlorobenzene-D5	7.353	54	82408	10.000	ppbV	# 0.00
Standard Area =	85965		Recovery =	95.86%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.225	85	10249	0.631	ppbV	98
6) chloromethane	2.330	50	5781	0.656	ppbV	95
7) Freon-114	2.390		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	784042	241.908	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.989	43	153087M6	23.581	ppbV	
21) trichlorofluoromethane	3.073	101	2307	0.266	ppbV	98
22) isopropyl alcohol	3.097	45	109076	10.134	ppbV	99
27) tertiary butyl alcohol	3.400	59	2649	0.109	ppbV	# 51
28) methylene chloride	3.430	49	3356	0.210	ppbV	92
29) 3-chloropropene	3.430		0	N.D.		
30) carbon disulfide	3.575		0	N.D.		
31) Freon 113	3.555	101	1652	0.068	ppbV	# 96
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.977		0	N.D.		
36) 2-butanone	4.170	43	11133	0.340	ppbV	95
38) Ethyl Acetate	4.490	61	863	0.169	ppbV	62
39) chloroform	4.523		0	N.D.		
40) Tetrahydrofuran	4.717		0	N.D.		
42) 1,2-dichloroethane	4.877		0	N.D.		
44) hexane	4.483	57	3690	0.186	ppbV	78
50) benzene	5.223	78	9482M4	0.227	ppbV	
53) cyclohexane	5.357	56	1300M4	0.057	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223425.D
 Acq On : 28 Mar 2024 8:09 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-01,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:04 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

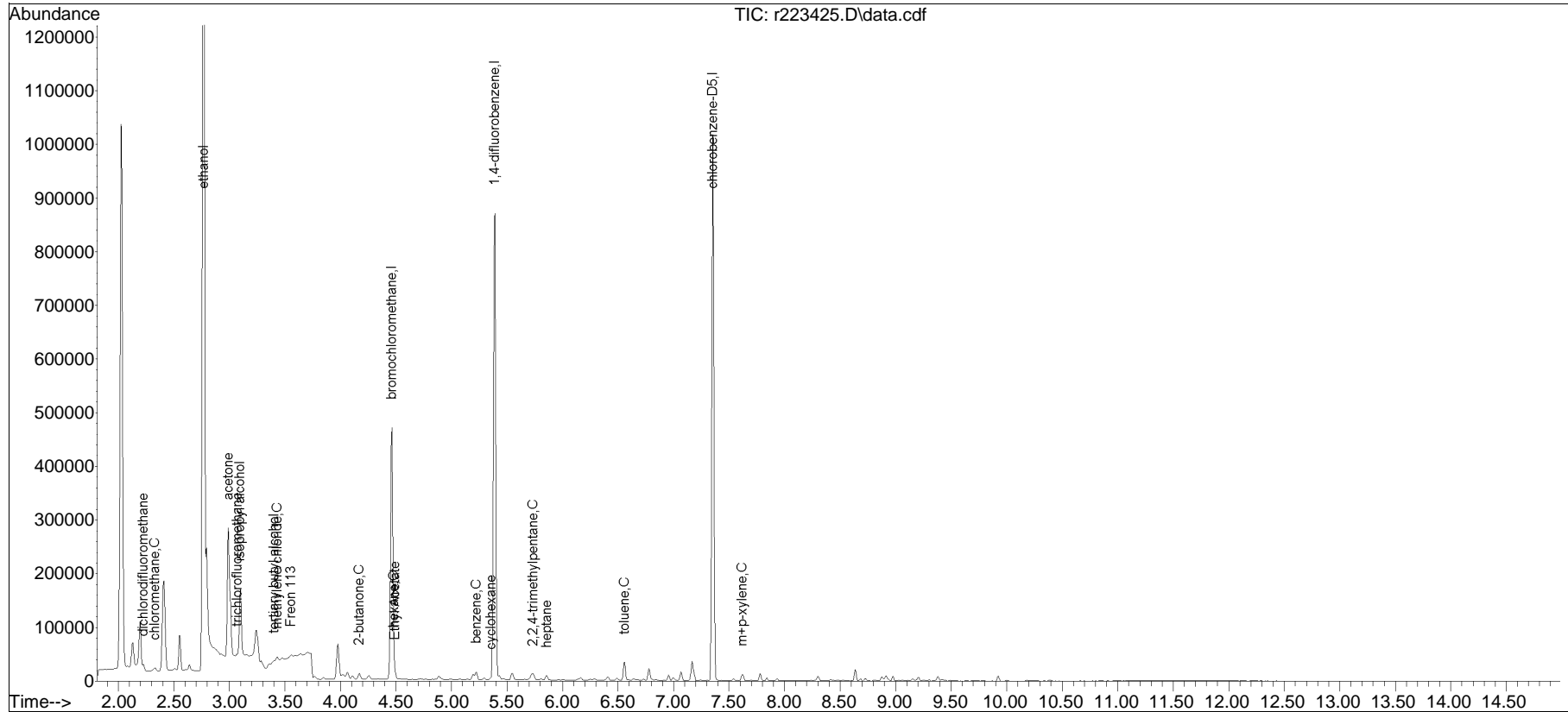
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	6730	0.106	ppbV #	87
62) heptane	5.857	43	3384	0.135	ppbV	94
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	17058	0.248	ppbV	97
72) 2-hexanone	6.640		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.373		0		N.D.	
81) ethylbenzene	7.540		0		N.D.	
83) m+p-xylene	7.620	91	6060	0.094	ppbV	87
84) bromoform	0.000		0		N.D.	
85) styrene	7.787		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.413		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	8.797		0		N.D.	
103) 1,4-dichlorobenzene	8.797		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

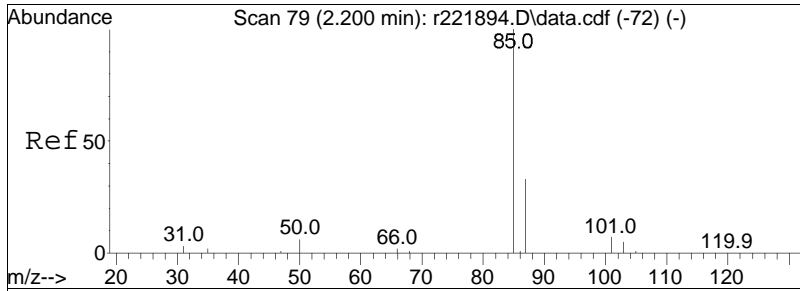
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223425.D
Acq On : 28 Mar 2024 8:09 PM
Operator : AIRLAB22:JMB
Sample : L2414212-01,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

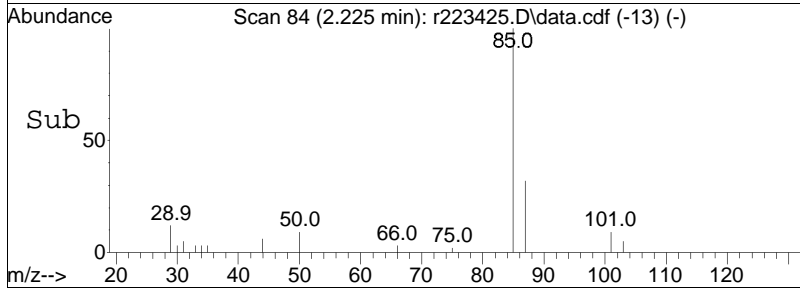
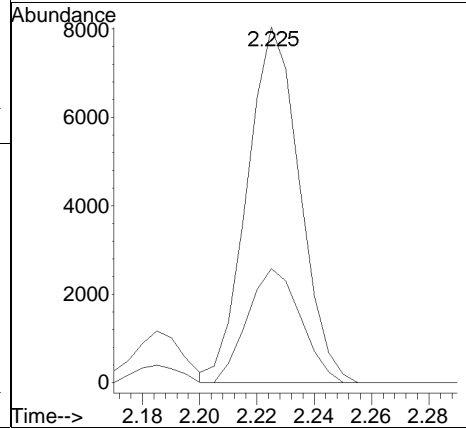
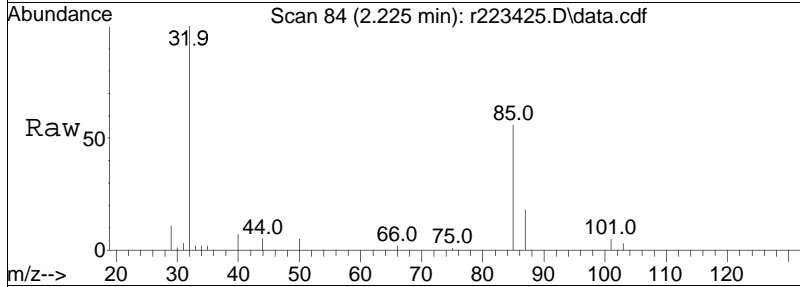
Quant Time: Mar 29 07:40:04 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

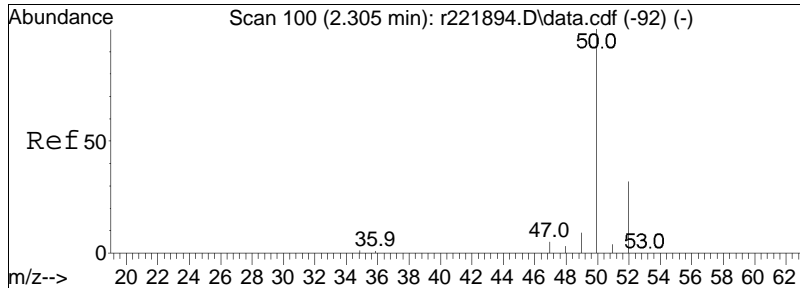




#5
 dichlorodifluoromethane
 Concen: 0.63 ppbV
 RT: 2.225 min Scan# 84
 Delta R.T. 0.025 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

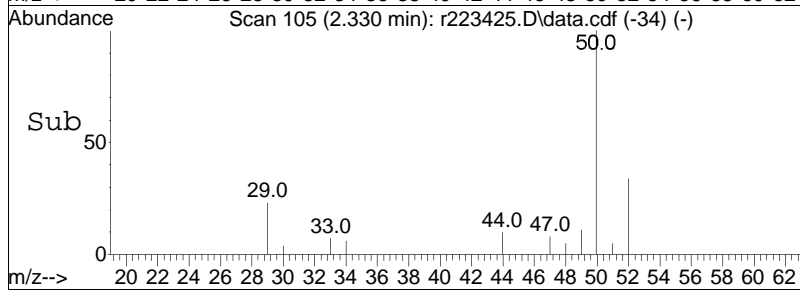
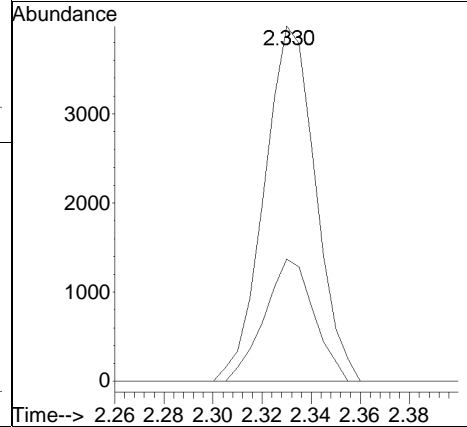
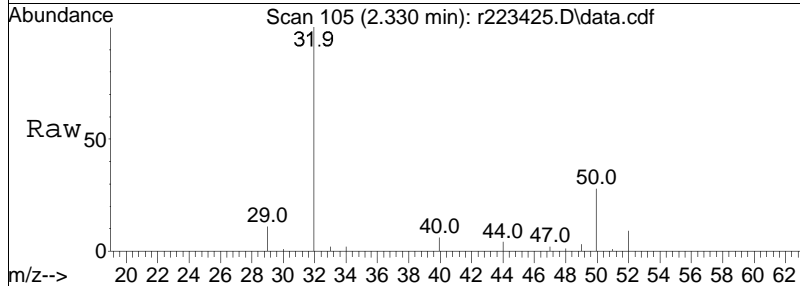
Tgt Ion: 85 Resp: 10249
 Ion Ratio Lower Upper
 85 100
 87 32.0 26.3 39.5

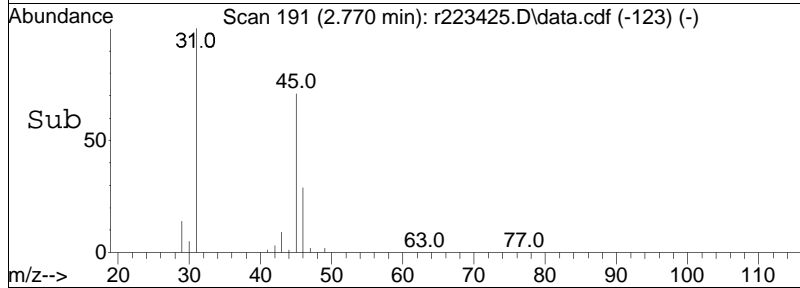
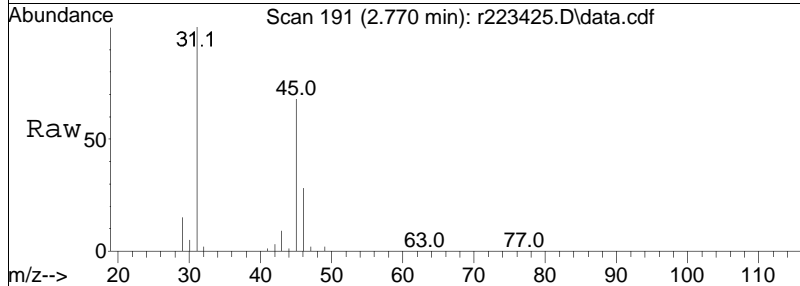
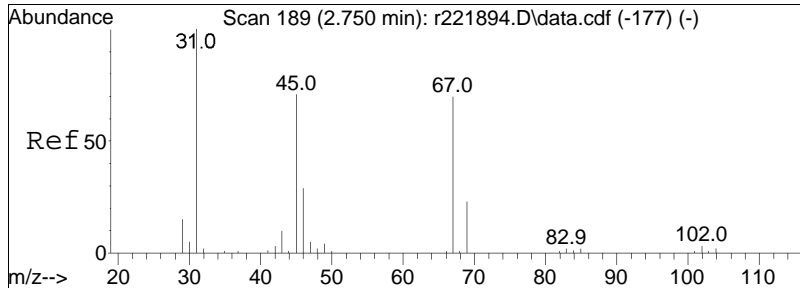




#6
 chloromethane
 Concen: 0.66 ppbV
 RT: 2.330 min Scan# 105
 Delta R.T. 0.025 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

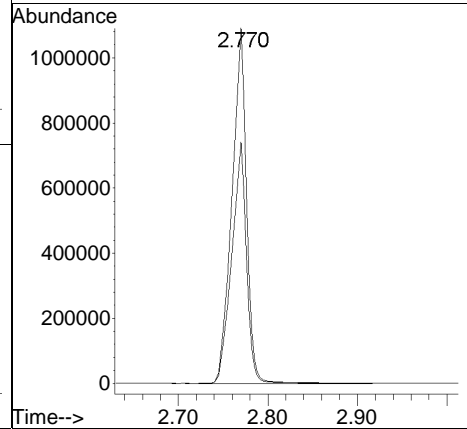
Tgt Ion	Resp	Lower	Upper
50	5781		
50	100		
52	34.4	25.5	38.3

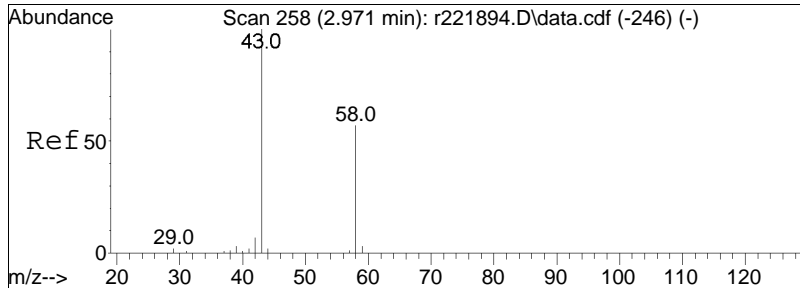




#15
 ethanol
 Concen: 241.91 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

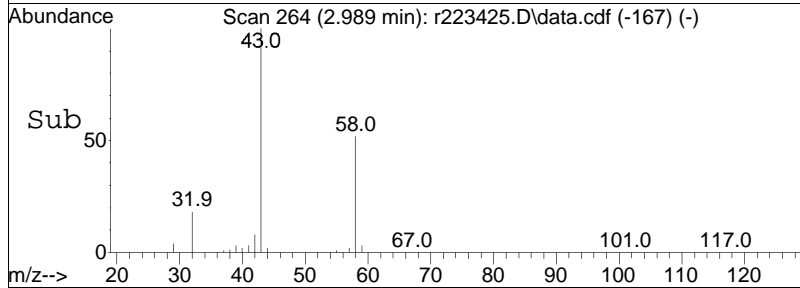
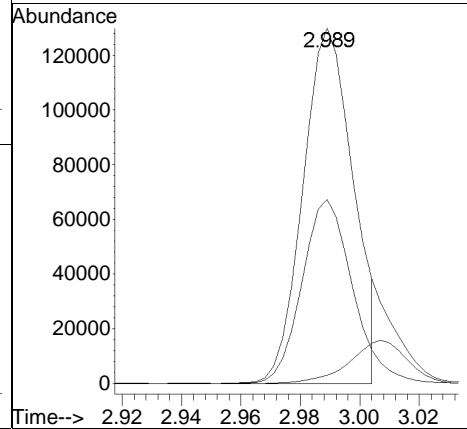
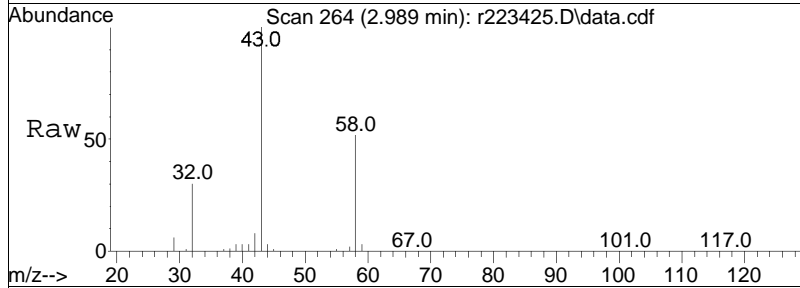
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
31	100		
45	67.9	56.6	84.8

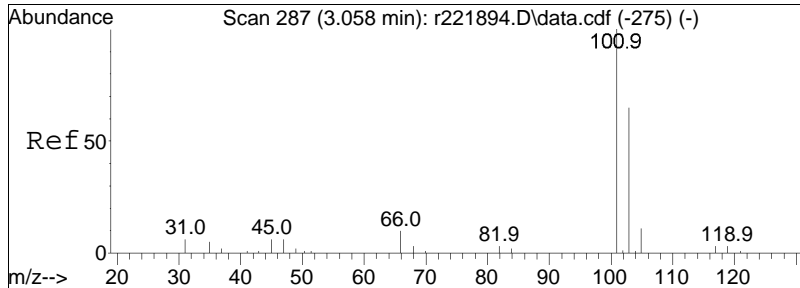




#19
 acetone
 Concen: 23.58 ppbV m
 RT: 2.989 min Scan# 264
 Delta R.T. 0.018 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

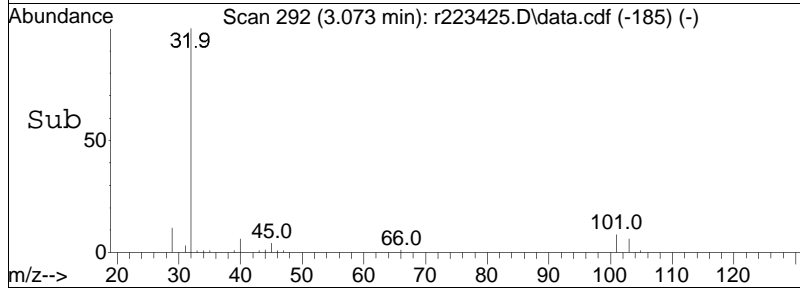
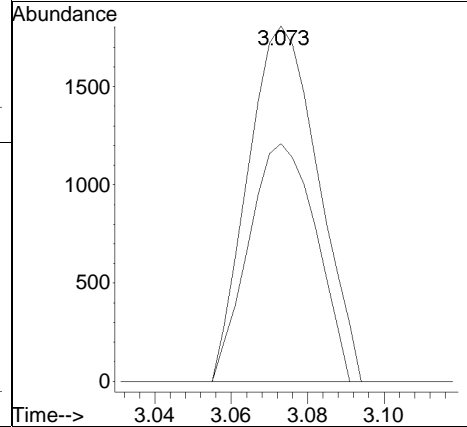
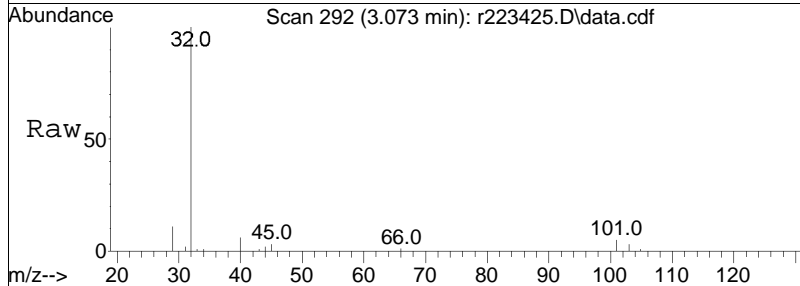
Tgt Ion	Resp	Lower	Upper
43	153087		
58	51.8	45.5	68.3
57	2.3	1.0	1.6#

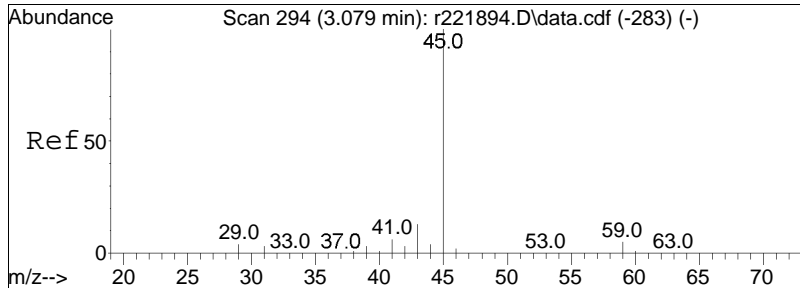




#21
 trichlorofluoromethane
 Concen: 0.27 ppbV
 RT: 3.073 min Scan# 292
 Delta R.T. 0.015 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

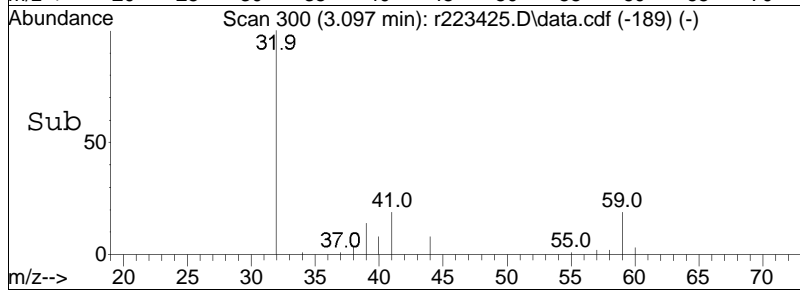
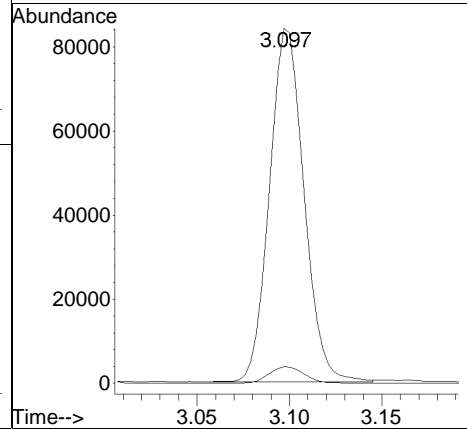
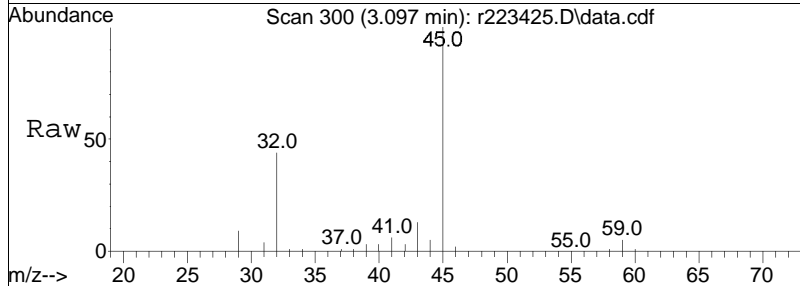
Tgt Ion	Resp	Lower	Upper
101	2307		
101	100		
103	66.9	52.2	78.4

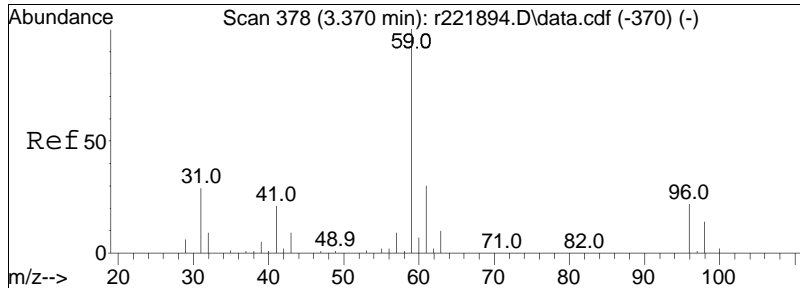




#22
 isopropyl alcohol
 Concen: 10.13 ppbV
 RT: 3.097 min Scan# 300
 Delta R.T. 0.018 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

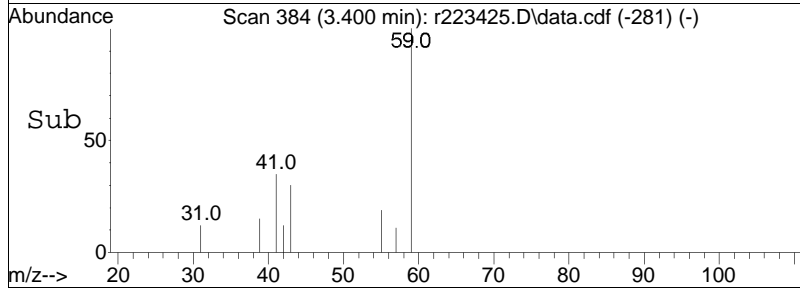
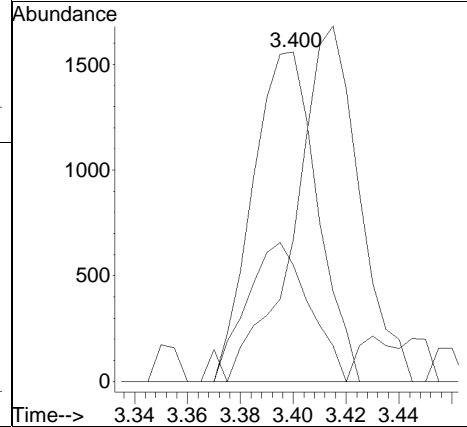
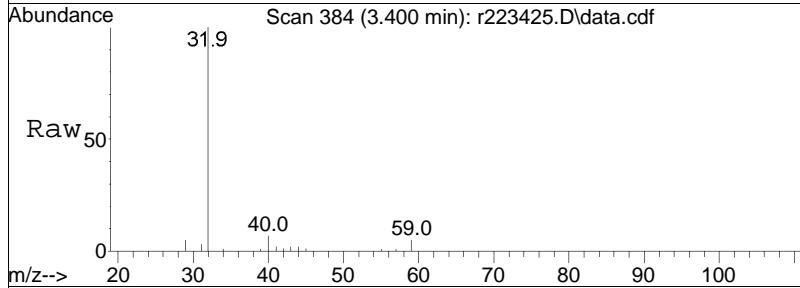
Tgt Ion:	45	59	Resp:	109076
Ion Ratio	100	4.7	Lower	Upper
			4.0	6.0

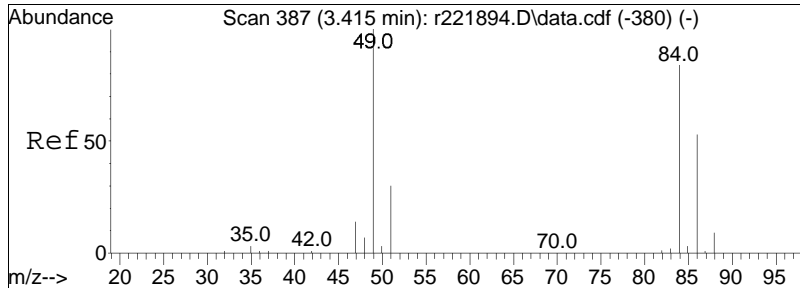




#27
 tertiary butyl alcohol
 Concen: 0.11 ppbV
 RT: 3.400 min Scan# 384
 Delta R.T. 0.030 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

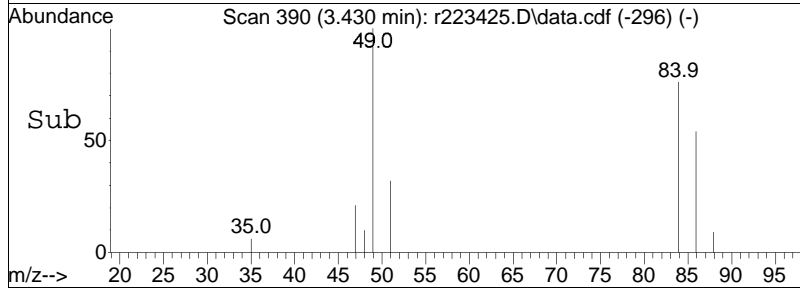
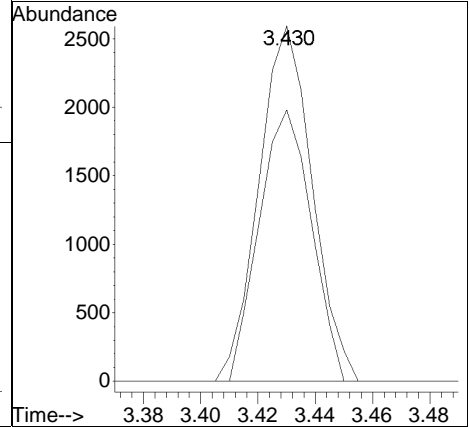
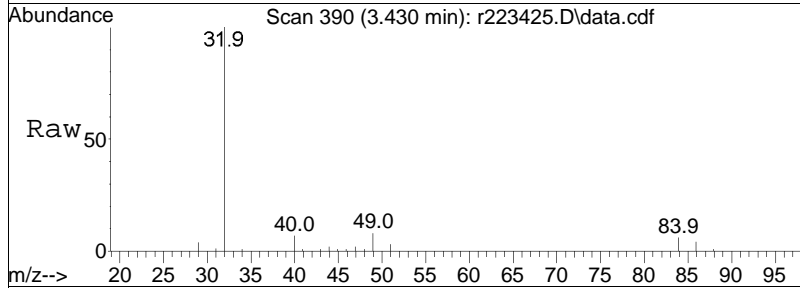
Tgt Ion	Resp	Lower	Upper
59	100		
41	35.3	16.9	25.3#
43	43.2	7.5	11.3#

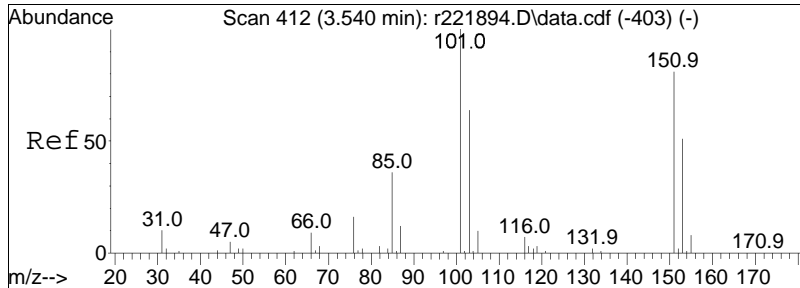




#28
 methylene chloride
 Concen: 0.21 ppbV
 RT: 3.430 min Scan# 390
 Delta R.T. 0.015 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

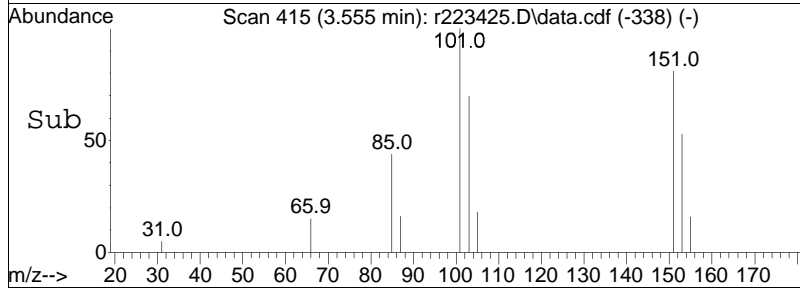
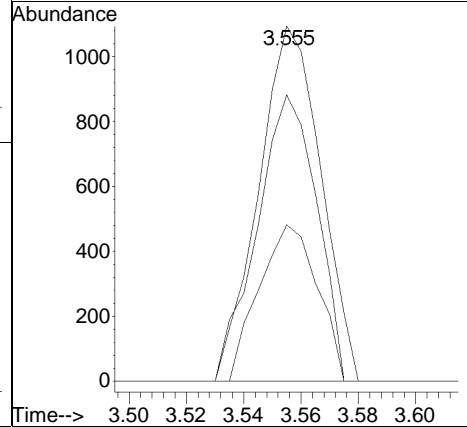
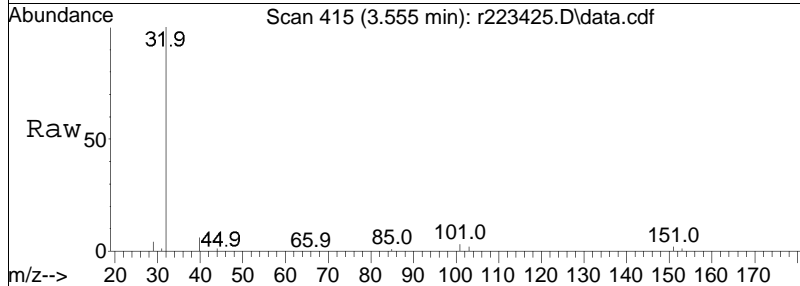
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	76.4	67.2	100.8

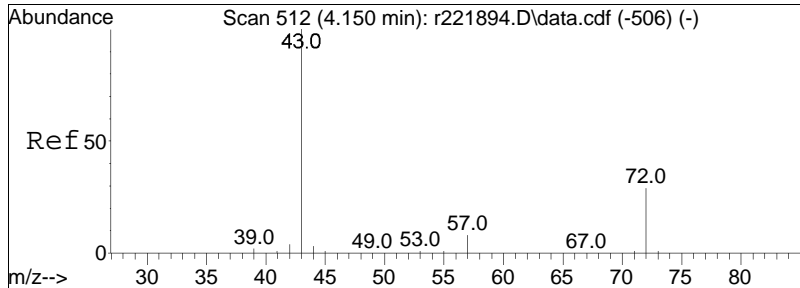




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

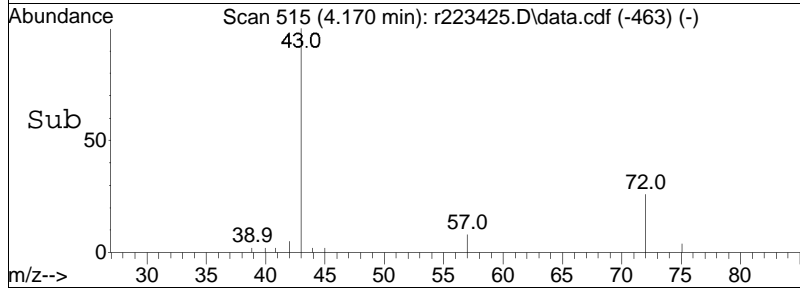
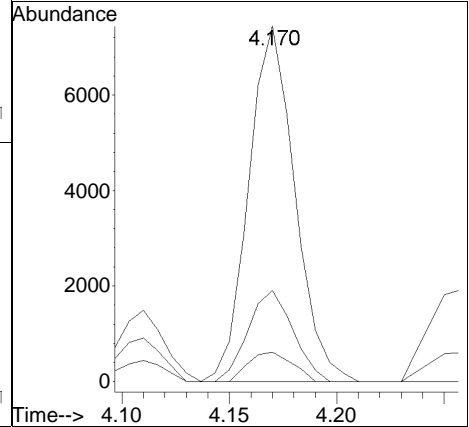
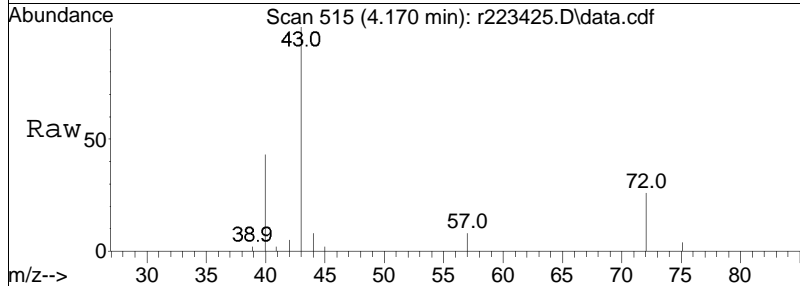
Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.1	28.6	43.0#
151	80.6	64.6	97.0

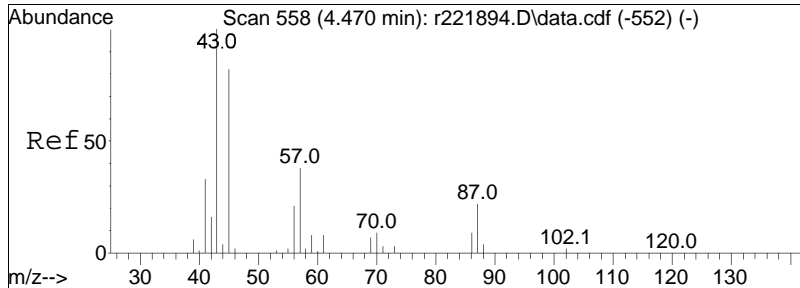




#36
 2-butanone
 Concen: 0.34 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

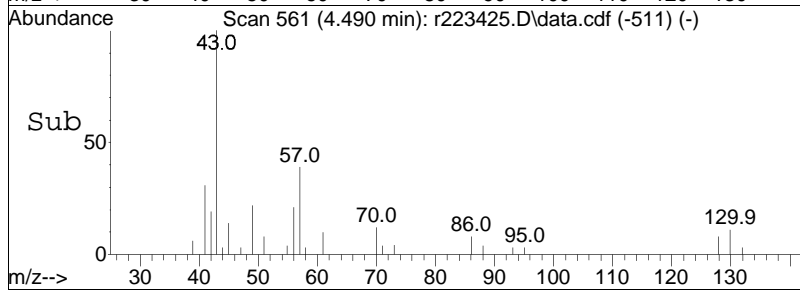
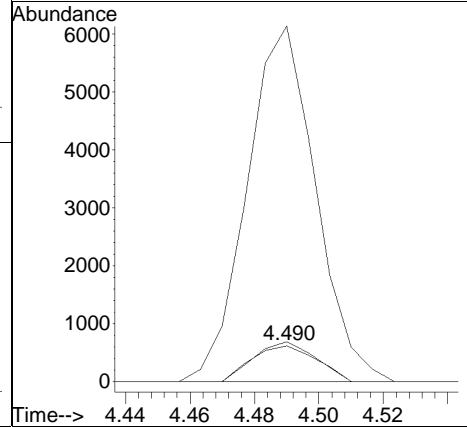
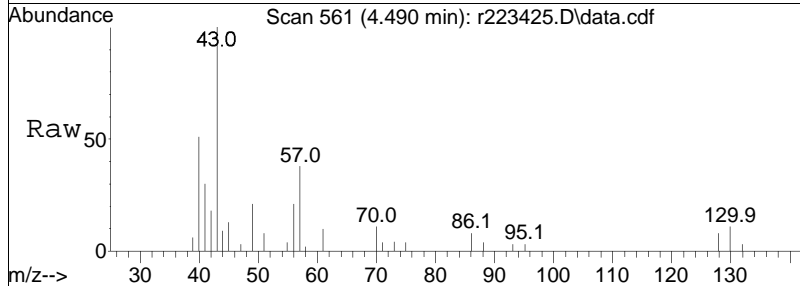
Tgt Ion	Resp	Lower	Upper
43	11133		
43	100		
72	25.6	23.0	34.6
57	8.2	6.3	9.5

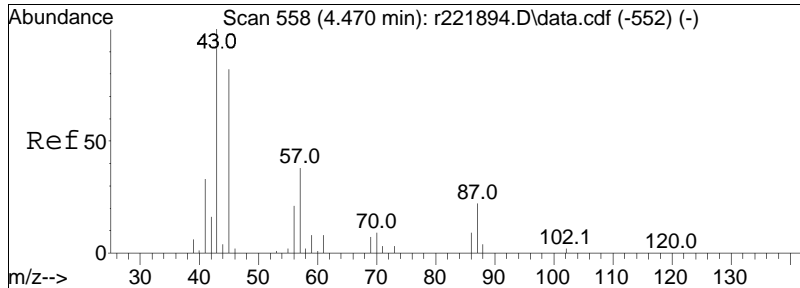




#38
 Ethyl Acetate
 Concen: 0.17 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

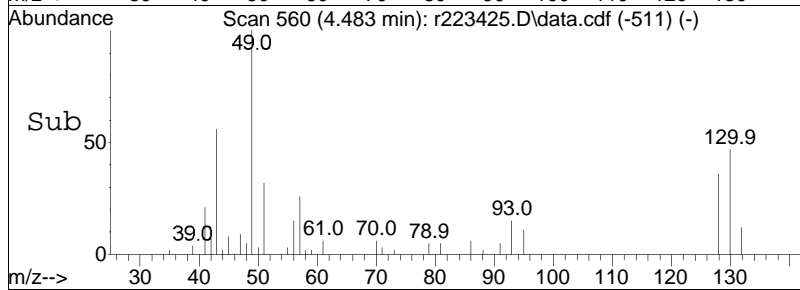
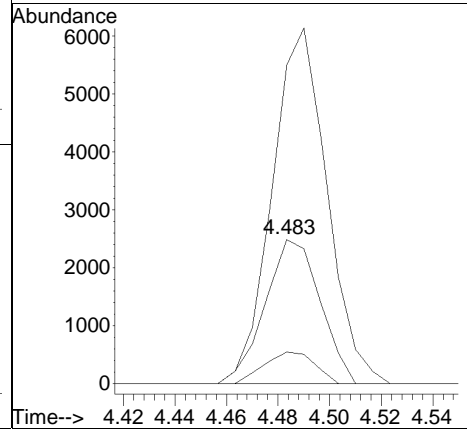
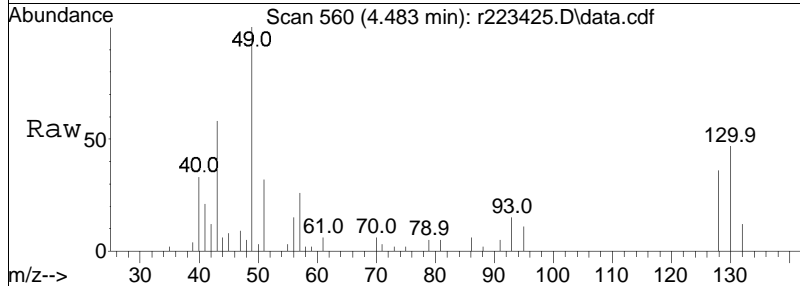
Tgt Ion	Resp	Lower	Upper
61	100		
70	111.7	91.7	137.5
43	999.7	971.0	1456.6

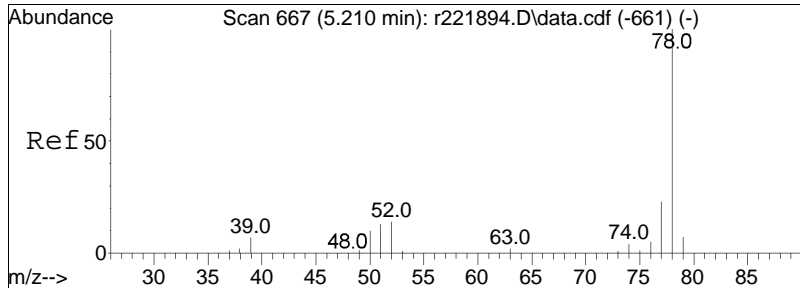




#44
 hexane
 Concen: 0.19 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

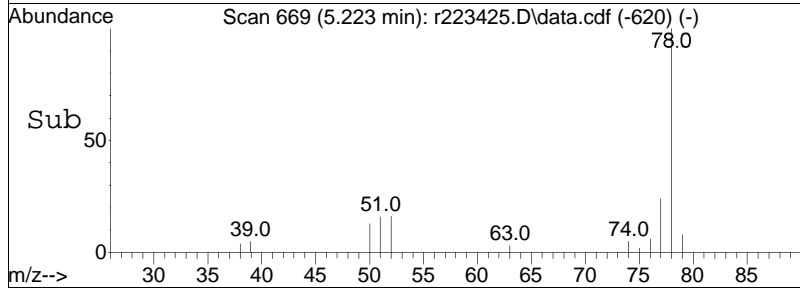
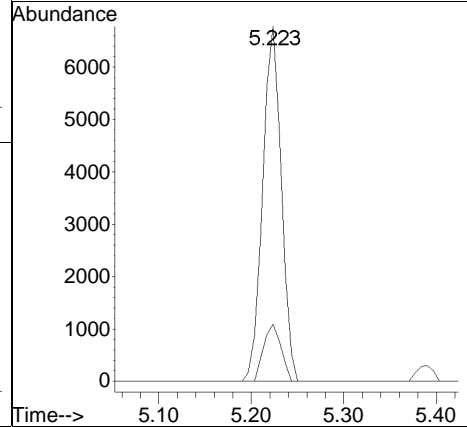
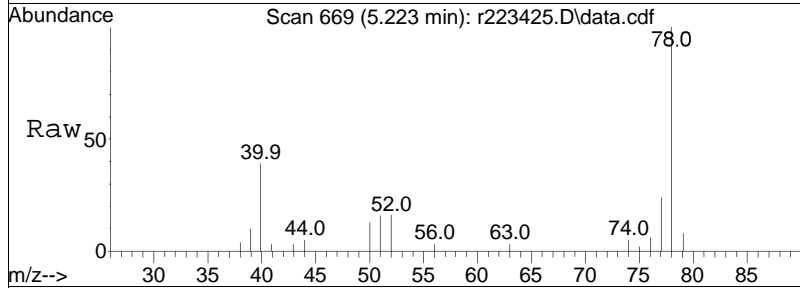
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	221.3	210.8	316.2
86	21.8	17.9	26.9

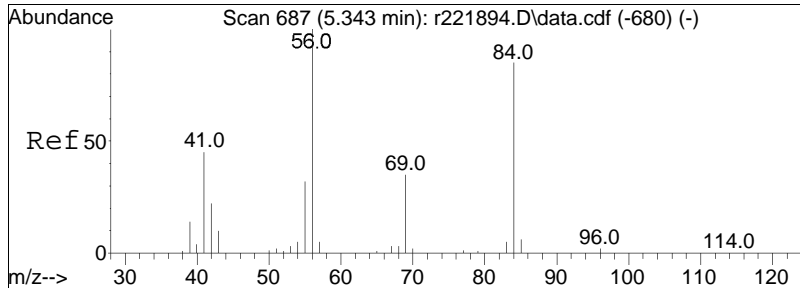




#50
benzene
Concen: 0.23 ppbV m
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223425.D
Acq: 28 Mar 2024 8:09 PM

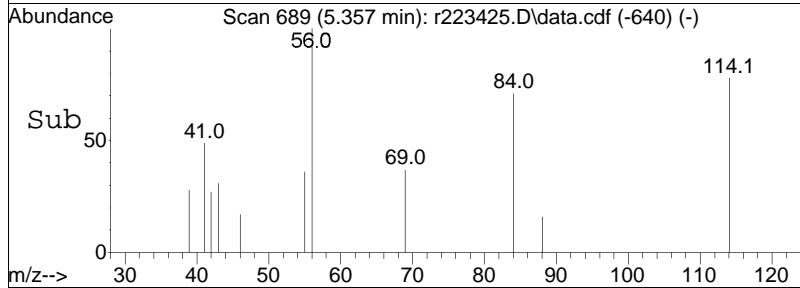
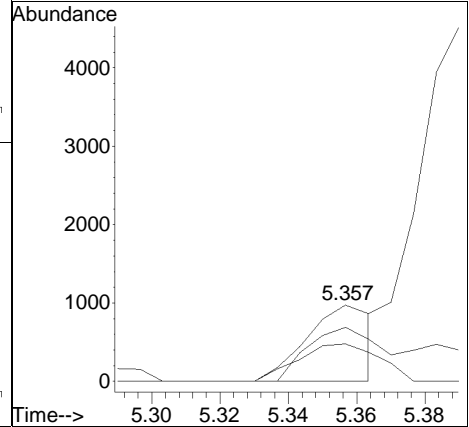
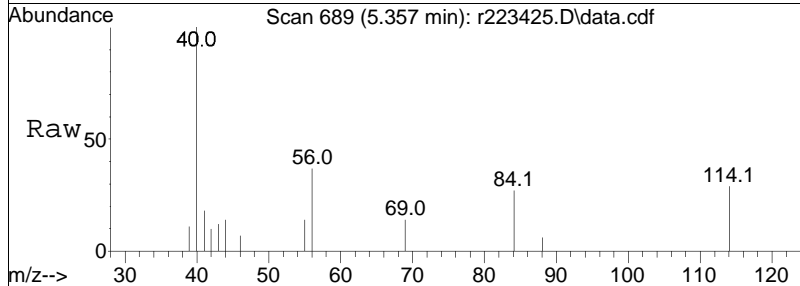
Tgt Ion	Resp	Lower	Upper
78	100		
52	16.1	11.3	16.9

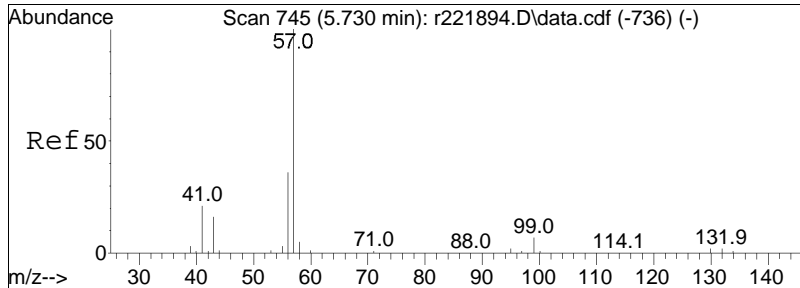




#53
 cyclohexane
 Concen: 0.06 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

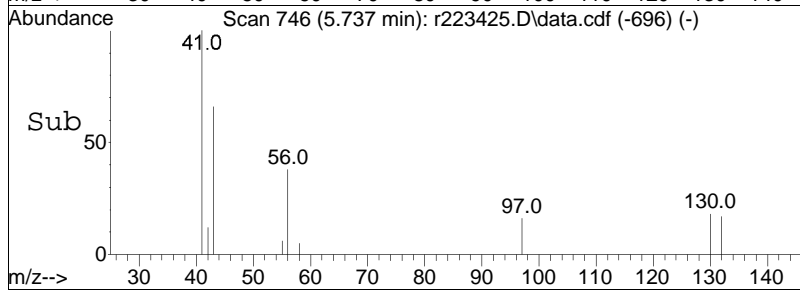
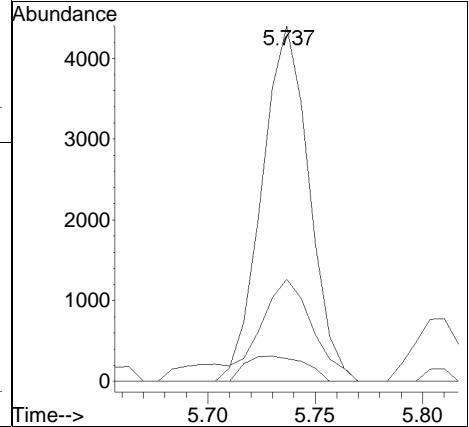
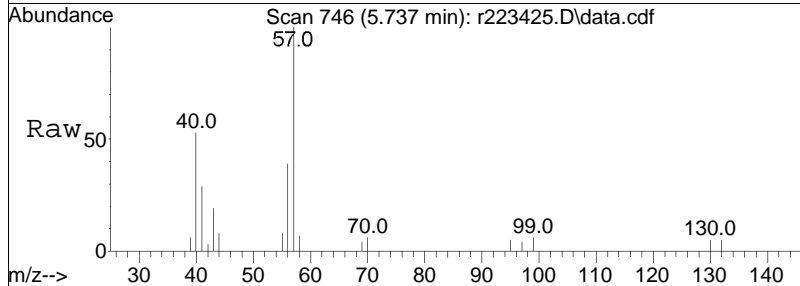
Tgt Ion:	Resp:	Lower	Upper
56	1300		
84	70.8	70.9	106.3#
41	49.1	35.8	53.6

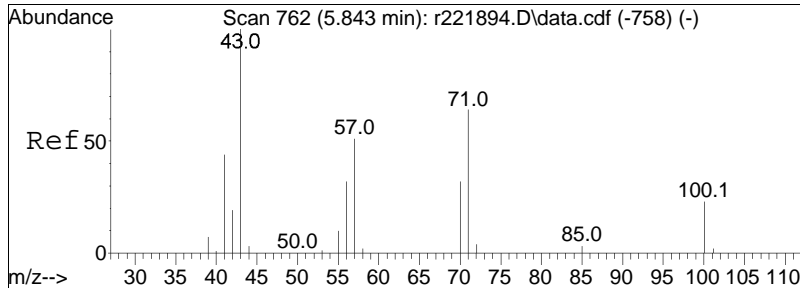




#60
 2,2,4-trimethylpentane
 Concen: 0.11 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

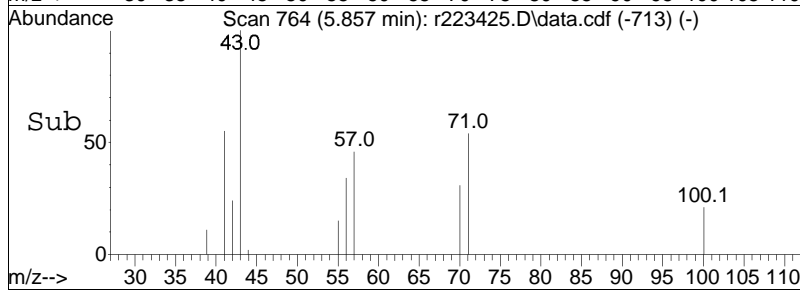
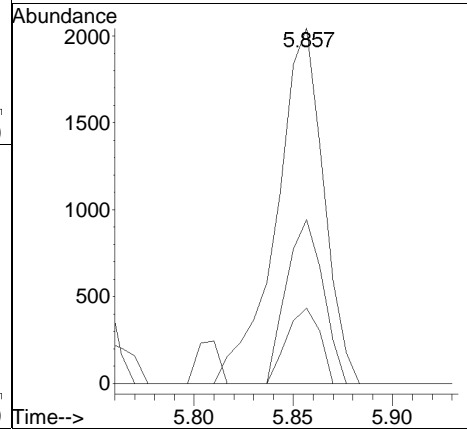
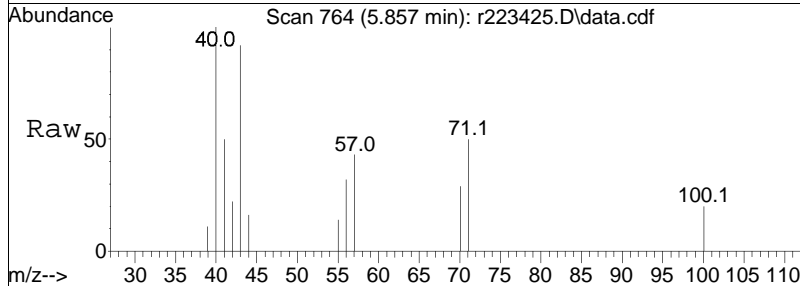
Tgt Ion	Resp	Lower	Upper
57	100		
99	6.4	5.7	8.5
41	28.7	16.9	25.3#

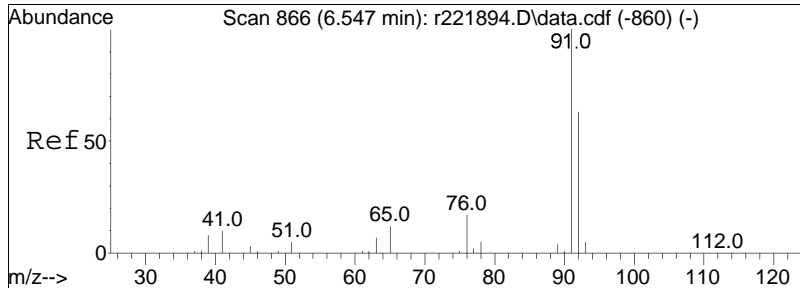




#62
 heptane
 Concen: 0.14 ppbV
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

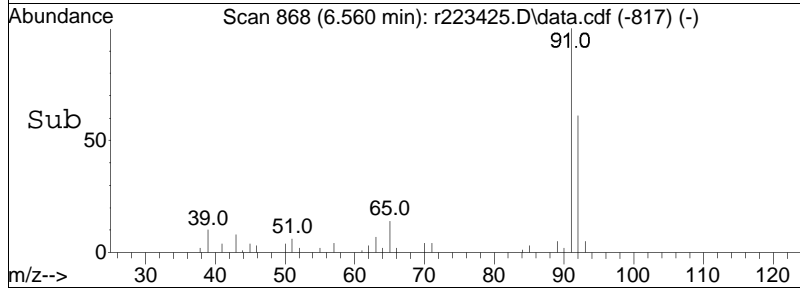
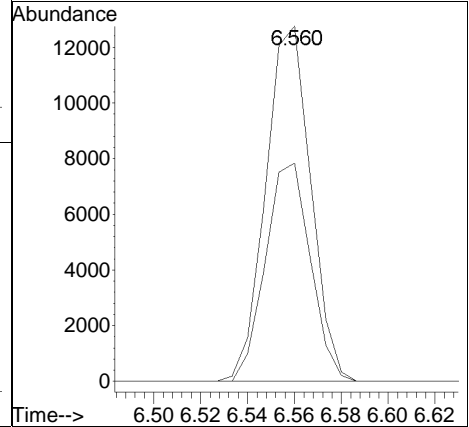
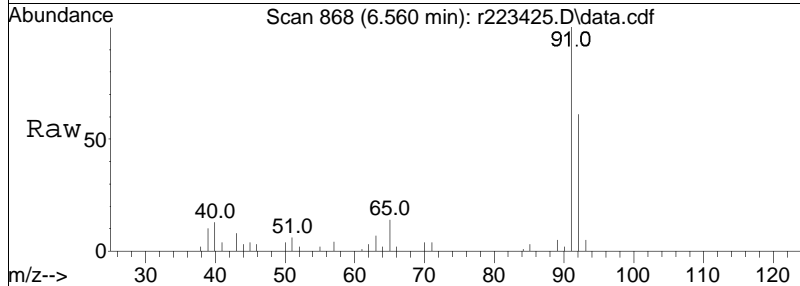
Tgt Ion	Ratio	Lower	Upper
43	100		
57	46.1	40.4	60.6
100	21.2	19.0	28.6

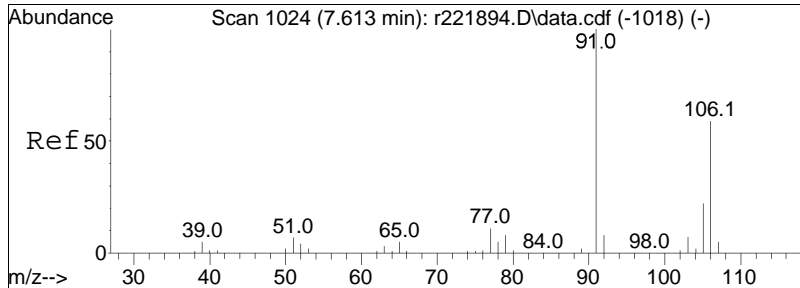




#68
 toluene
 Concen: 0.25 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

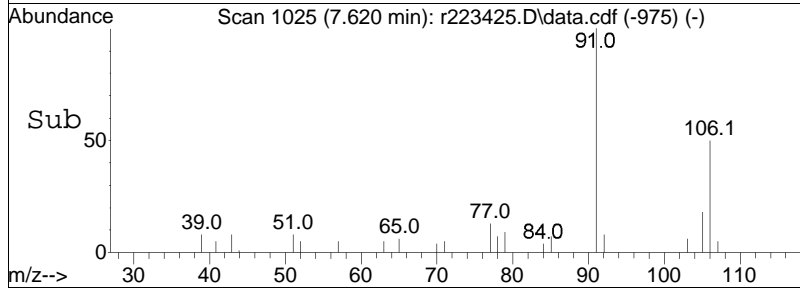
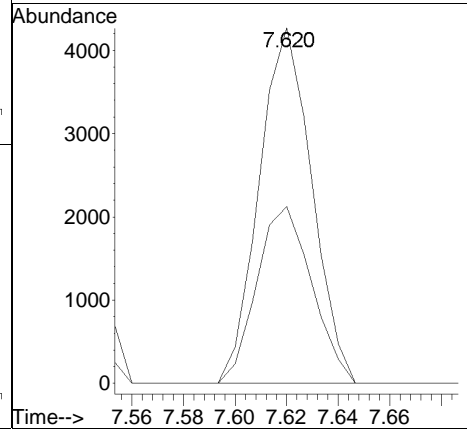
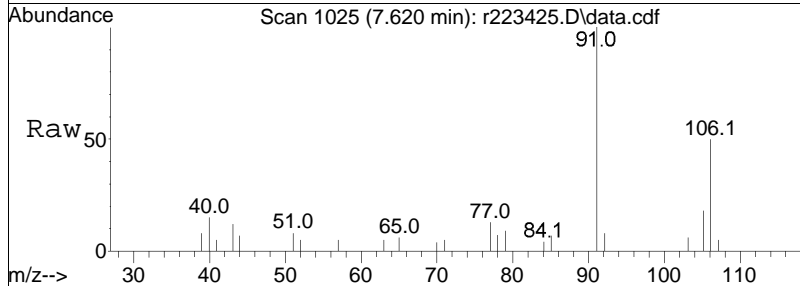
Tgt Ion:	91	Resp:	17058
Ion Ratio	Lower	Upper	
91	100		
92	61.4	50.7	76.1





#83
 m+p-xylene
 Concen: 0.09 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223425.D
 Acq: 28 Mar 2024 8:09 PM

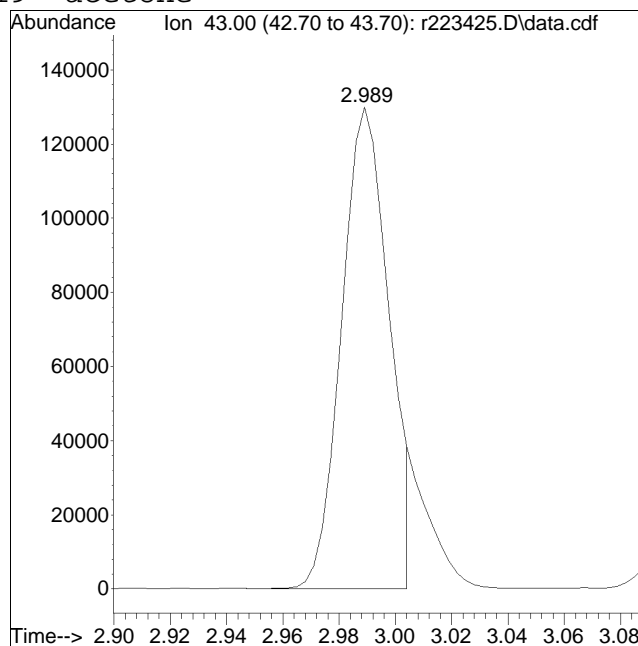
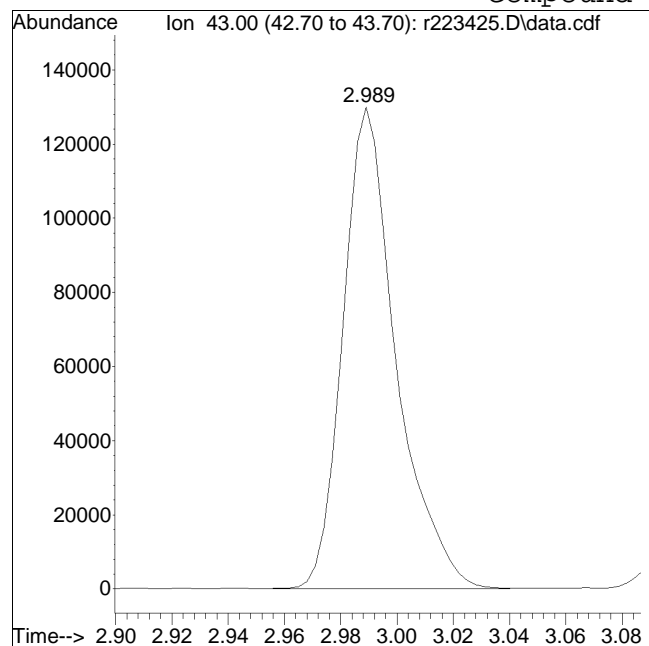
Tgt Ion: 91 Resp: 6060
 Ion Ratio Lower Upper
 91 100
 106 49.8 47.4 71.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223425.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 9 Instrument :
Sample : L2414212-01,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #19: acetone



Original Peak Response = 170866

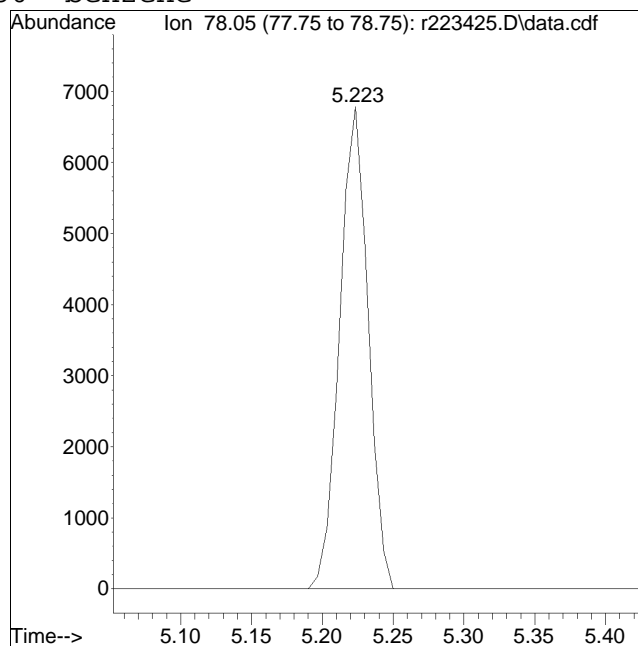
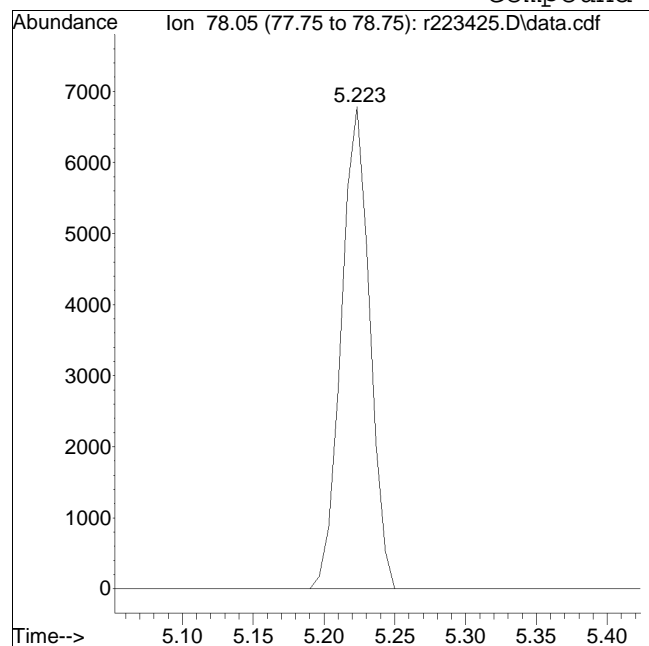
Manual Peak Response = 153087 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223425.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 9 Instrument :
Sample : L2414212-01,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #50: benzene



Original Peak Response = 9482

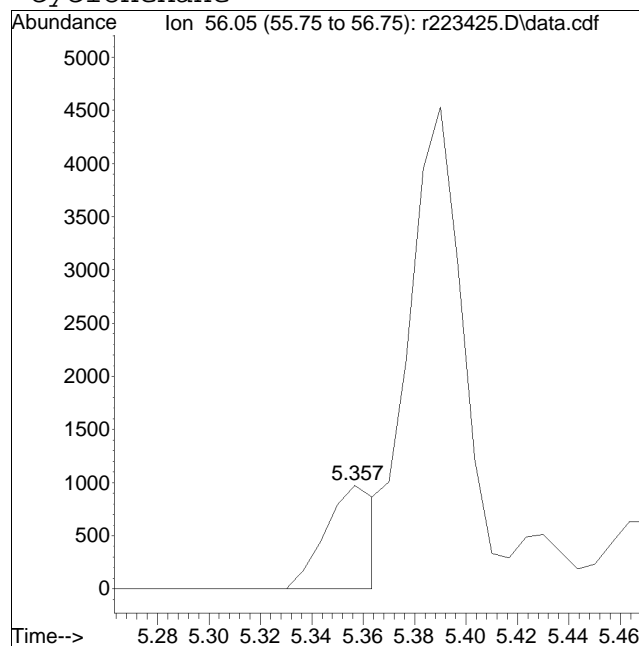
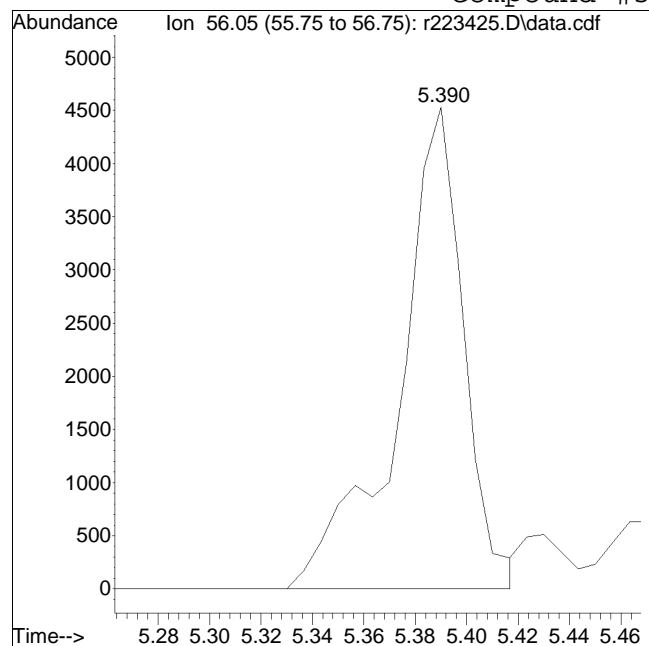
Manual Peak Response = 9482 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223425.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 9 Instrument :
Sample : L2414212-01,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #53: cyclohexane



Original Peak Response = 7924

Manual Peak Response = 1300 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223426.D
 Acq On : 28 Mar 2024 8:40 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-02,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:23 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	199850	10.000	ppbV	0.01
Standard Area =	222450		Recovery =		89.84%	
43) 1,4-difluorobenzene	5.390	114	552397	10.000	ppbV	# 0.01
Standard Area =	633782		Recovery =		87.16%	
67) chlorobenzene-D5	7.353	54	82547	10.000	ppbV	# 0.00
Standard Area =	85965		Recovery =		96.02%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.220	85	8476	0.527	ppbV	97
6) chloromethane	2.325	50	5638	0.646	ppbV	100
7) Freon-114	2.385		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	2.645		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	427596	133.209	ppbV	95
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.986	43	154994M6	24.106	ppbV	
21) trichlorofluoromethane	3.070	101	2299	0.268	ppbV	99
22) isopropyl alcohol	3.097	45	85649	8.034	ppbV	99
27) tertiary butyl alcohol	3.400	59	2144	0.089	ppbV	# 1
28) methylene chloride	3.425	49	109319	6.900	ppbV	92
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.570		0	N.D.		
31) Freon 113	3.555	101	1713	0.071	ppbV	# 85
32) trans-1,2-dichloroethene	3.977		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	4.170	43	9986	0.308	ppbV	95
38) Ethyl Acetate	4.490	61	3693	0.731	ppbV	# 28
39) chloroform	4.523		0	N.D.		
40) Tetrahydrofuran	4.717	42	1723	0.083	ppbV	# 66
42) 1,2-dichloroethane	4.877		0	N.D.		
44) hexane	4.483	57	6746	0.345	ppbV	# 19
50) benzene	5.223	78	8588	0.208	ppbV	# 91
53) cyclohexane	5.357	56	1289M4	0.058	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223426.D
 Acq On : 28 Mar 2024 8:40 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-02,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:23 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

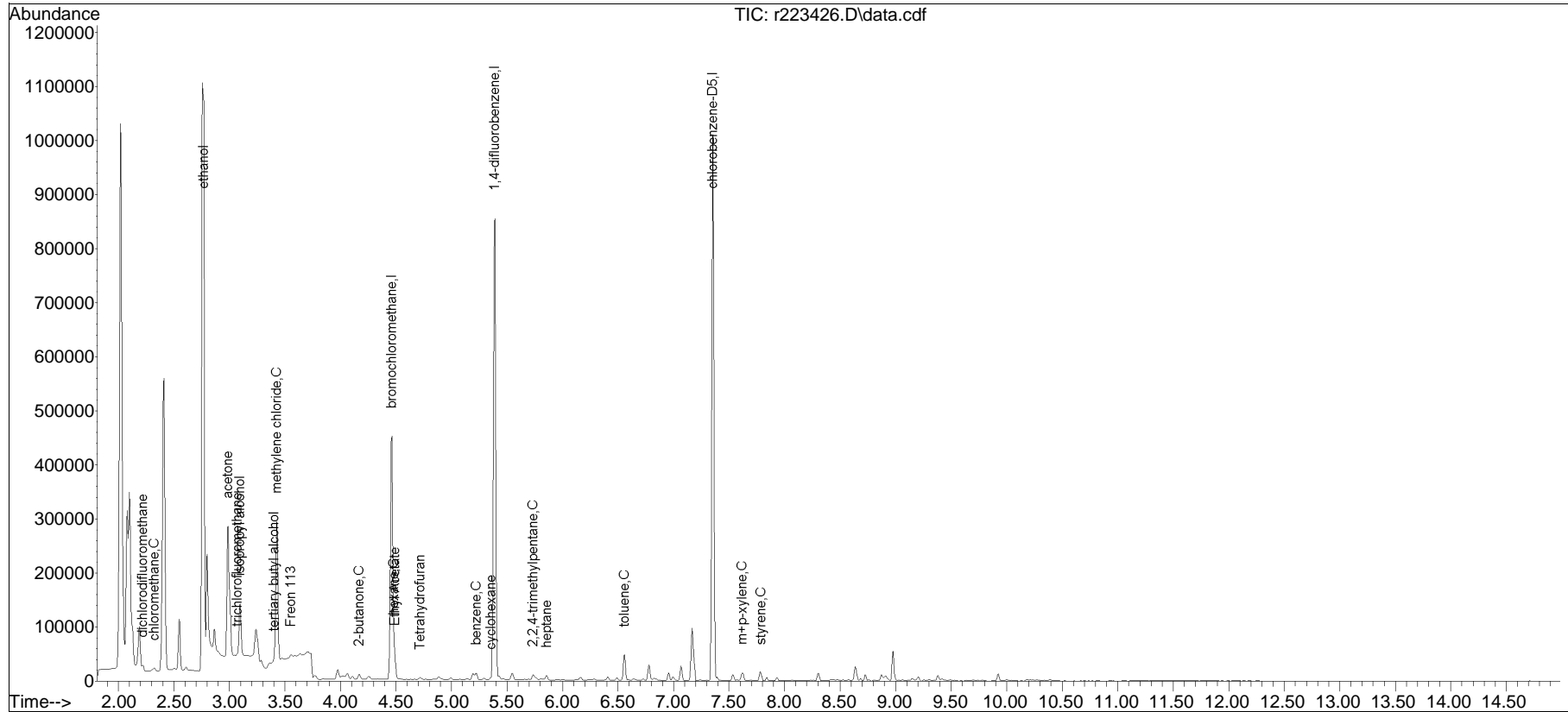
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	6472	0.104	ppbV #	86
62) heptane	5.857	43	3036M6	0.123	ppbV	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	24239	0.352	ppbV	100
72) 2-hexanone	6.640		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.373		0		N.D.	
81) ethylbenzene	7.540		0		N.D.	
83) m+p-xylene	7.620	91	6840	0.105	ppbV	94
84) bromoform	0.000		0		N.D.	
85) styrene	7.787	104	2978	0.051	ppbV	94
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.413		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.797		0		N.D.	
102) 1,3-dichlorobenzene	8.797		0		N.D.	
103) 1,4-dichlorobenzene	8.797		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

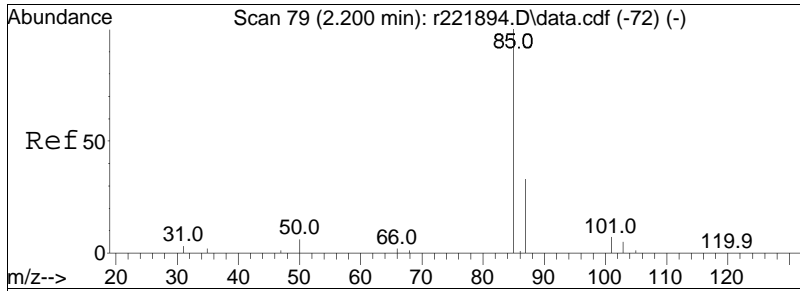
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223426.D
Acq On : 28 Mar 2024 8:40 PM
Operator : AIRLAB22:JMB
Sample : L2414212-02,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

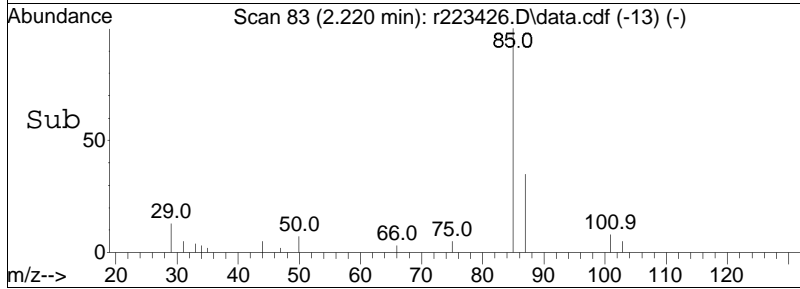
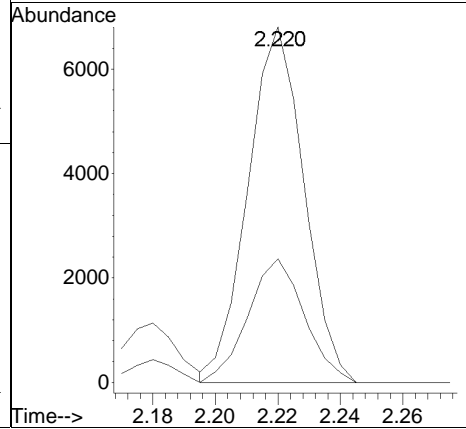
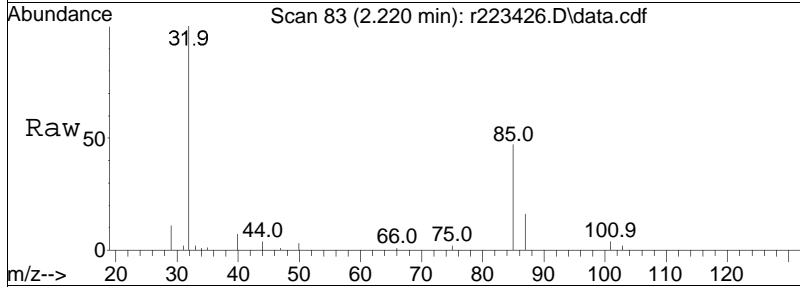
Quant Time: Mar 29 07:40:23 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

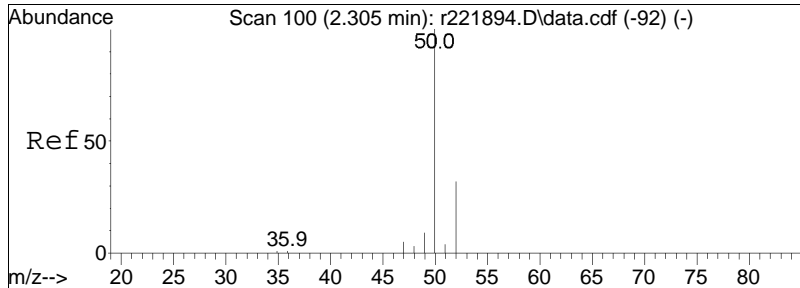




#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 2.220 min Scan# 83
Delta R.T. 0.020 min
Lab File: r223426.D
Acq: 28 Mar 2024 8:40 PM

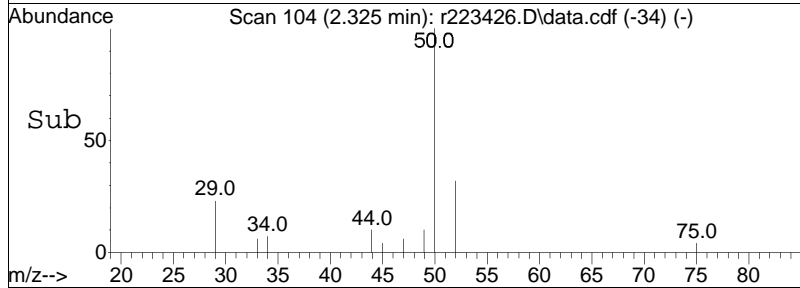
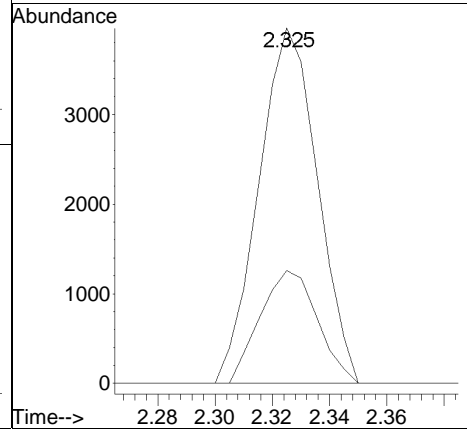
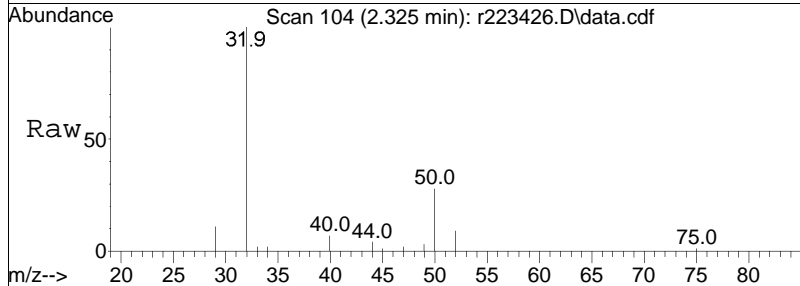
Tgt Ion: 85 Resp: 8476
Ion Ratio Lower Upper
85 100
87 34.8 26.3 39.5

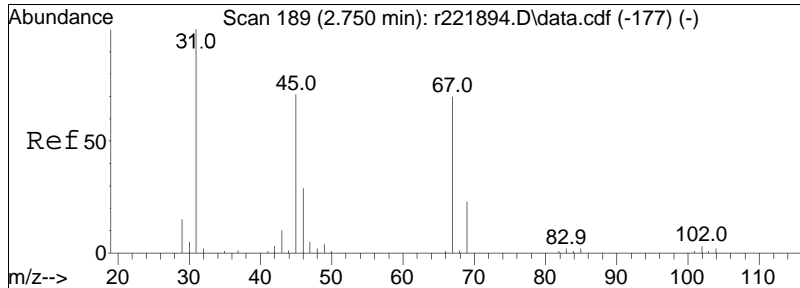




#6
 chloromethane
 Concen: 0.65 ppbV
 RT: 2.325 min Scan# 104
 Delta R.T. 0.020 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

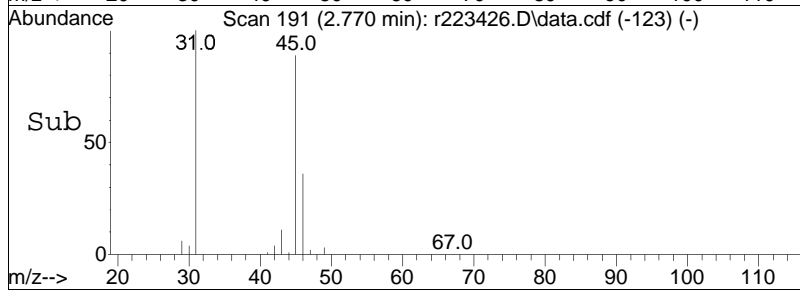
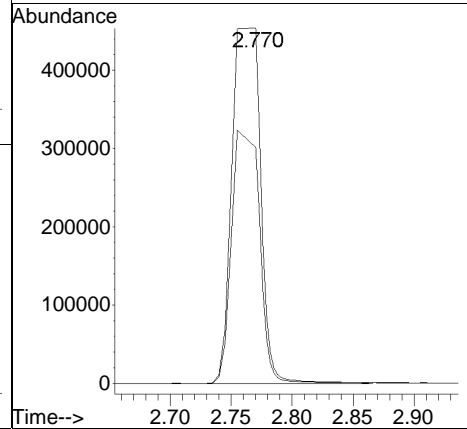
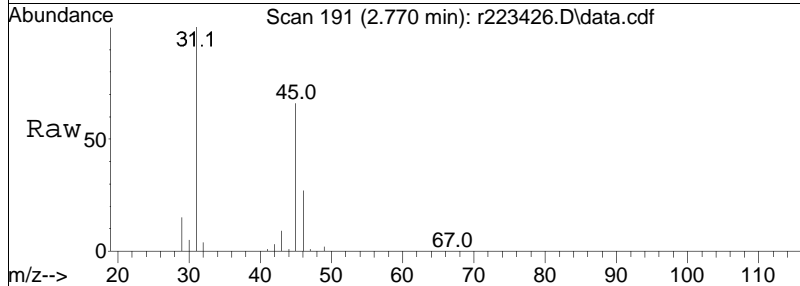
Tgt Ion: 50 Resp: 5638
 Ion Ratio Lower Upper
 50 100
 52 31.7 25.5 38.3

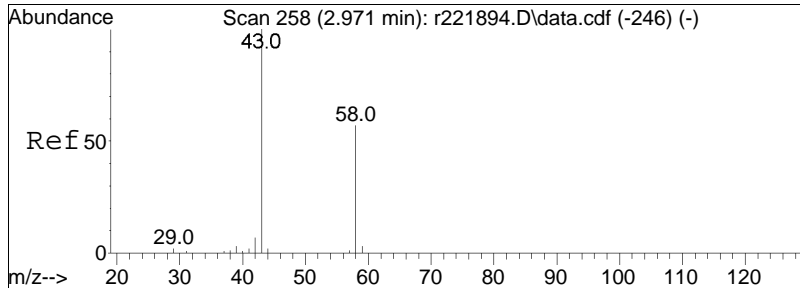




#15
 ethanol
 Concen: 133.21 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

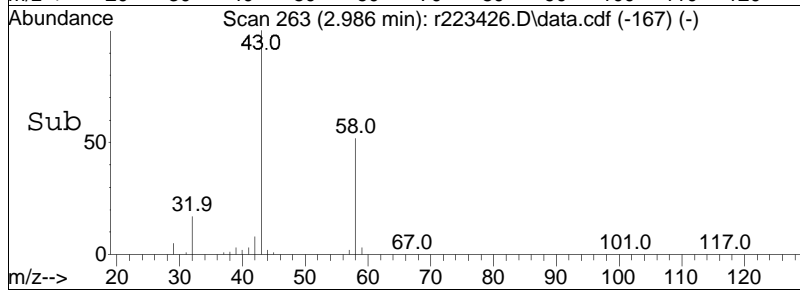
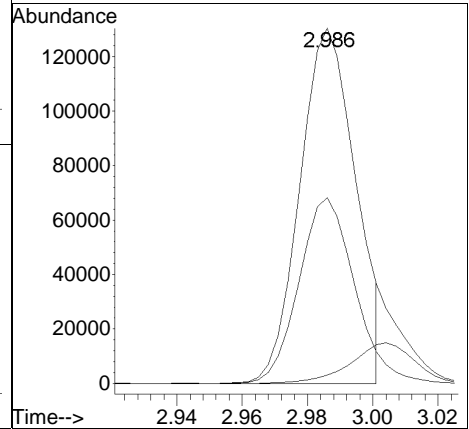
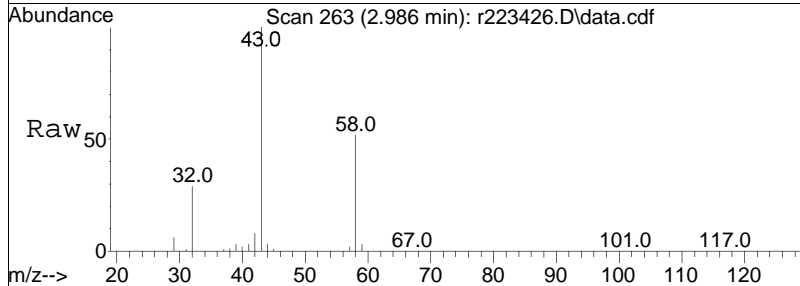
Tgt Ion	Resp	Lower	Upper
31	100		
45	66.4	56.6	84.8

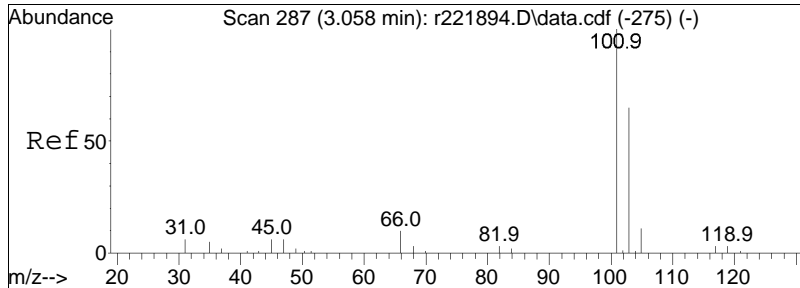




#19
 acetone
 Concen: 24.11 ppbV m
 RT: 2.986 min Scan# 263
 Delta R.T. 0.015 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

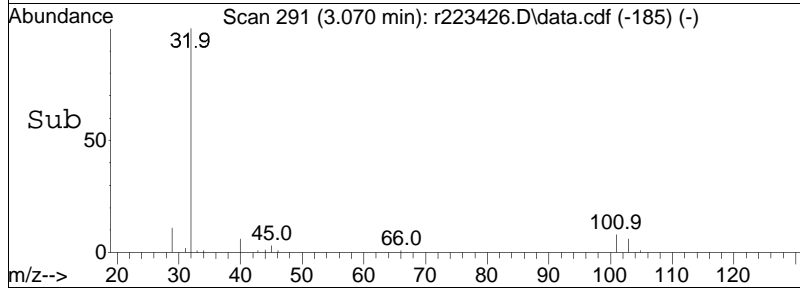
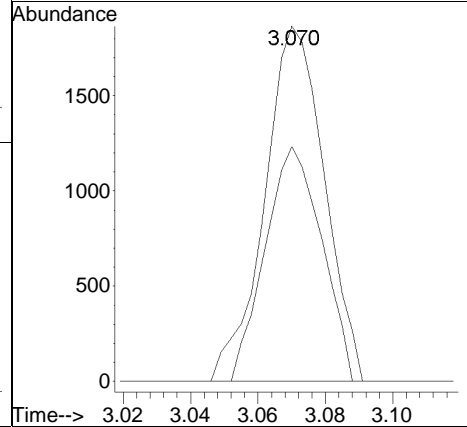
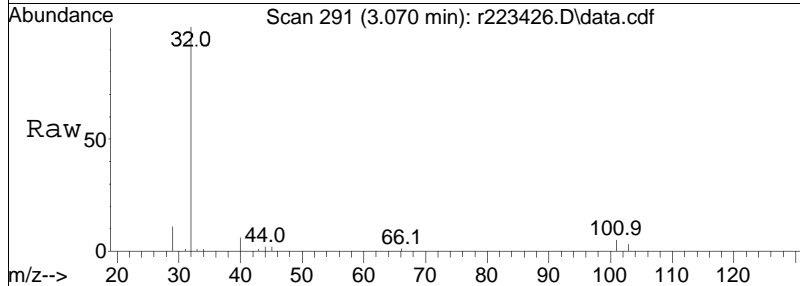
Tgt Ion	Resp	Lower	Upper
43	154994		
58	52.3	45.5	68.3
57	2.3	1.0	1.6#

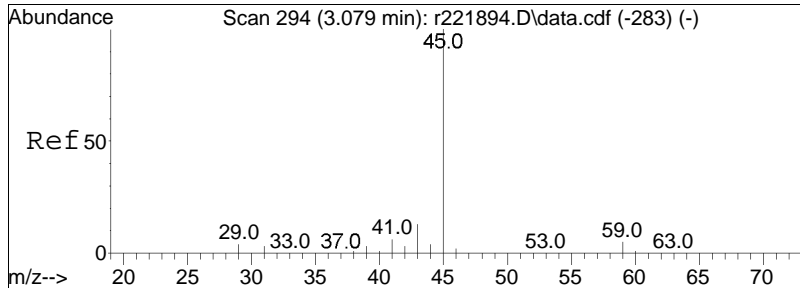




#21
 trichlorofluoromethane
 Concen: 0.27 ppbV
 RT: 3.070 min Scan# 291
 Delta R.T. 0.012 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

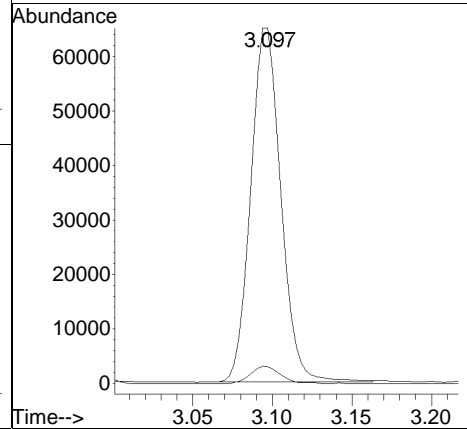
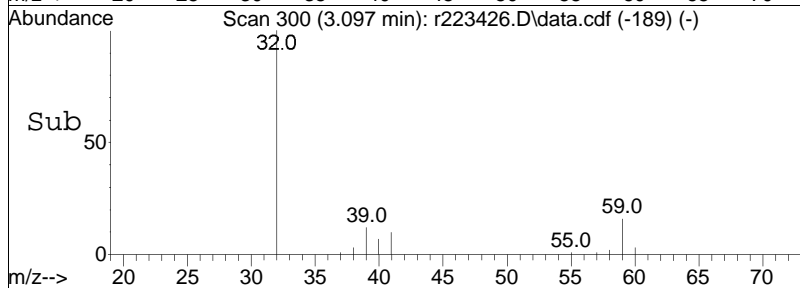
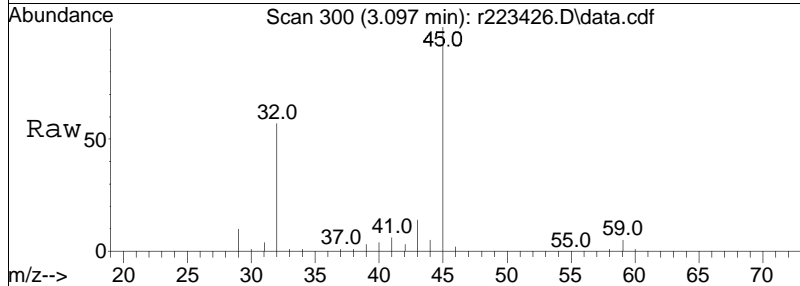
Tgt Ion	Resp	Lower	Upper
101	2299		
101	100		
103	66.1	52.2	78.4

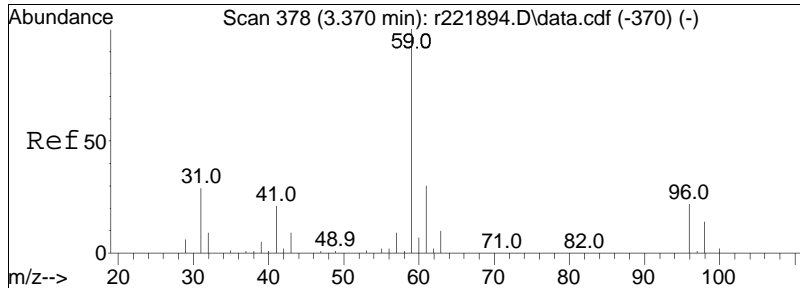




#22
 isopropyl alcohol
 Concen: 8.03 ppbV
 RT: 3.097 min Scan# 300
 Delta R.T. 0.018 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

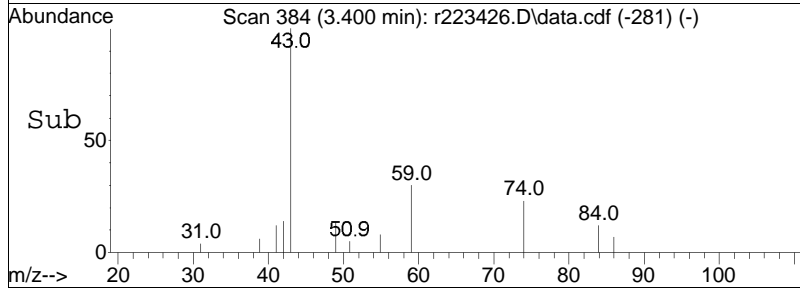
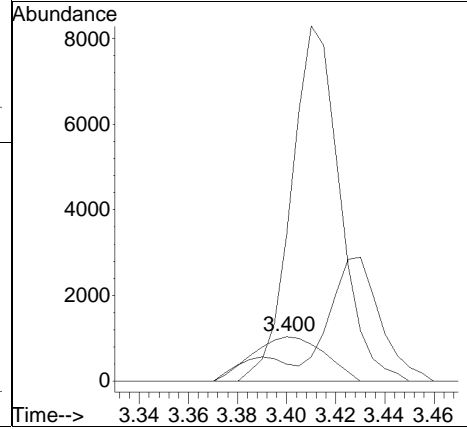
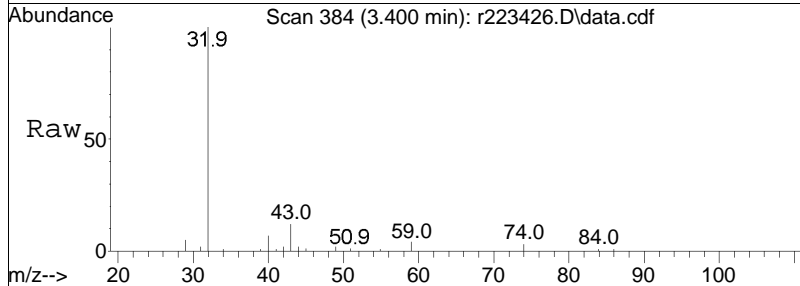
Tgt Ion: 45 Resp: 85649
 Ion Ratio Lower Upper
 45 100
 59 4.7 4.0 6.0

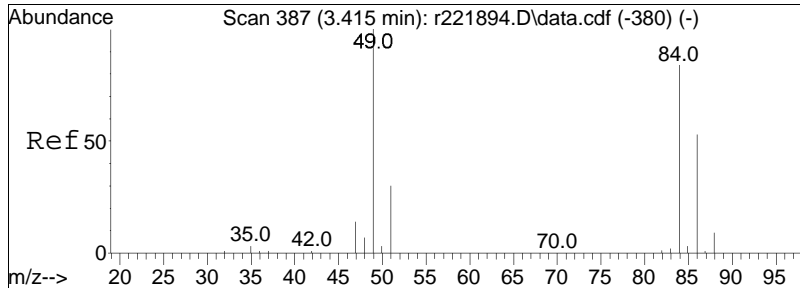




#27
 tertiary butyl alcohol
 Concen: 0.09 ppbV
 RT: 3.400 min Scan# 384
 Delta R.T. 0.030 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

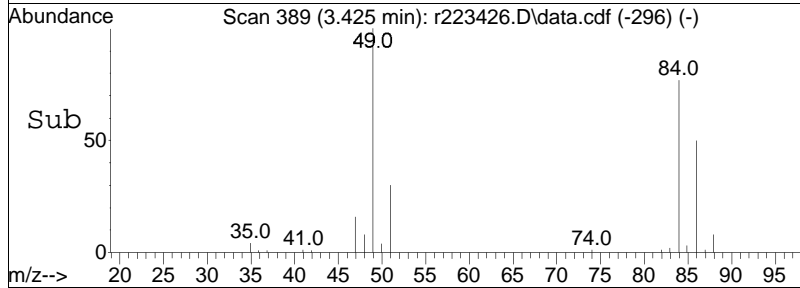
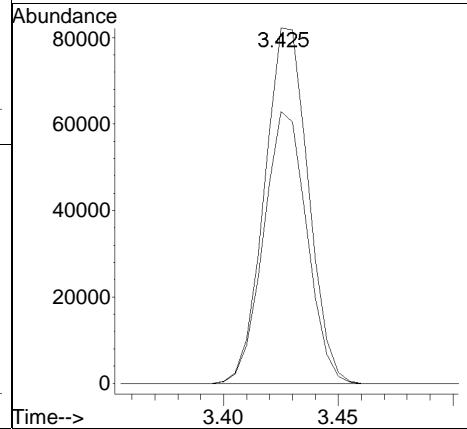
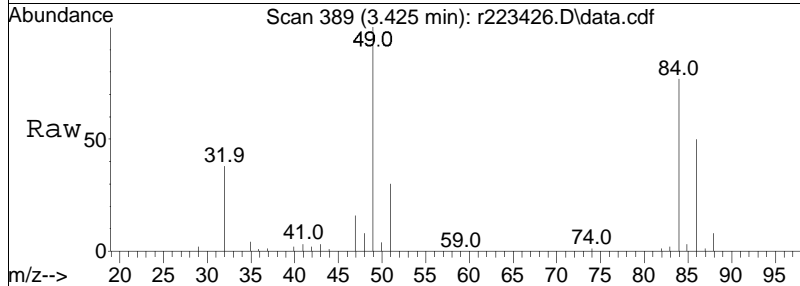
Tgt Ion	Resp	Lower	Upper
59	100		
41	38.4	16.9	25.3#
43	328.9	7.5	11.3#

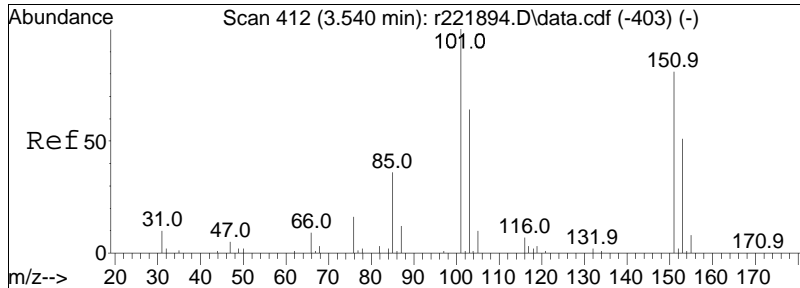




#28
 methylene chloride
 Concen: 6.90 ppbV
 RT: 3.425 min Scan# 389
 Delta R.T. 0.010 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

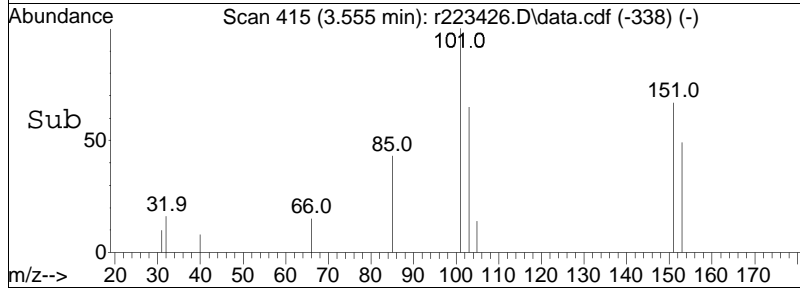
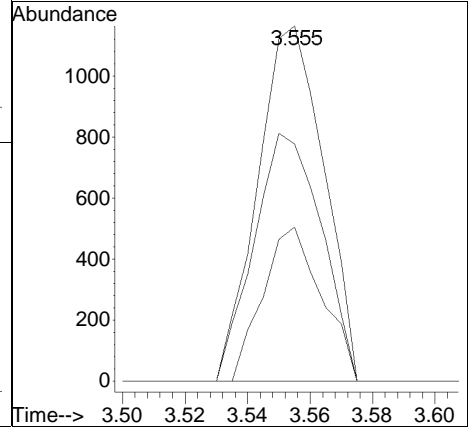
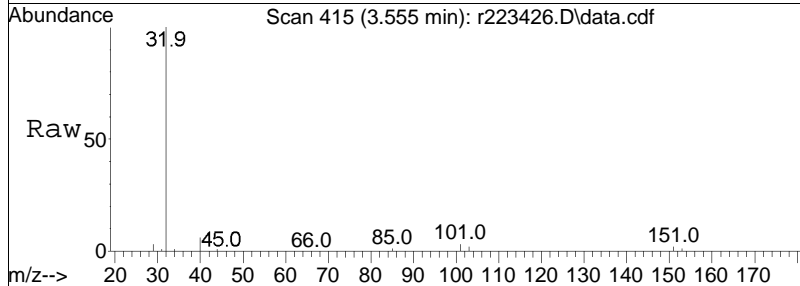
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	76.5	67.2	100.8

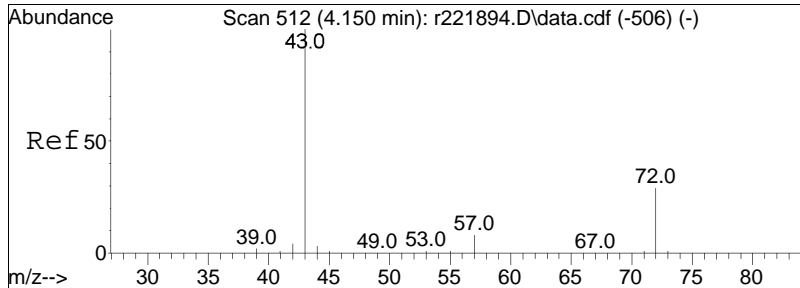




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

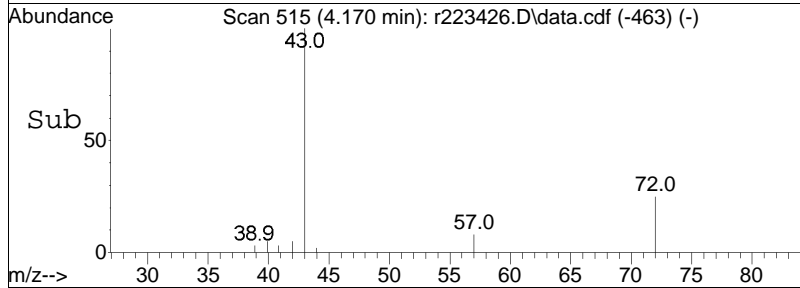
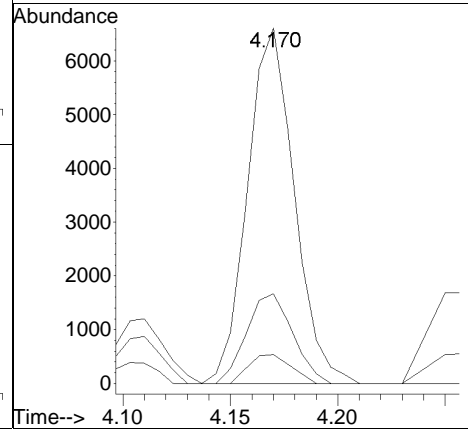
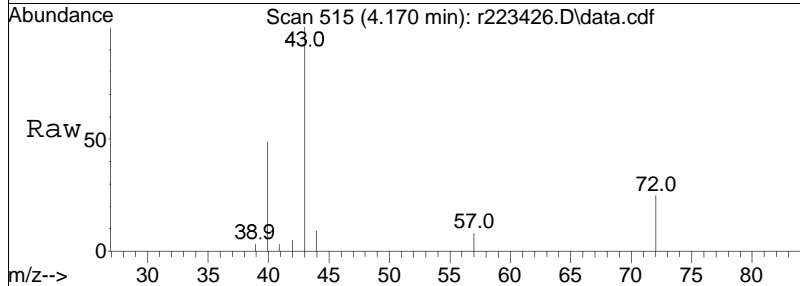
Tgt Ion	Ratio	Lower	Upper
101	100		
85	43.4	28.6	43.0#
151	66.8	64.6	97.0

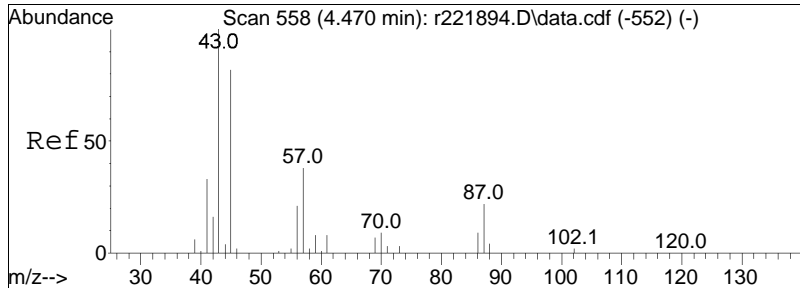




#36
 2-butanone
 Concen: 0.31 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

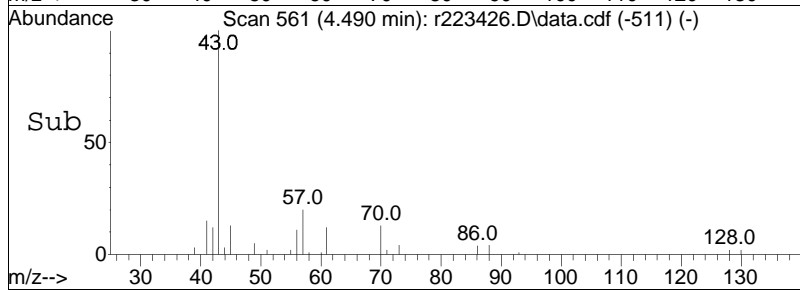
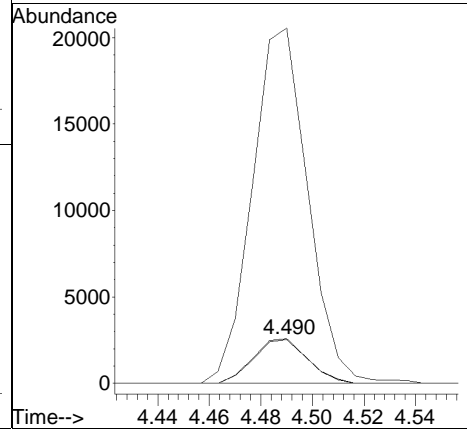
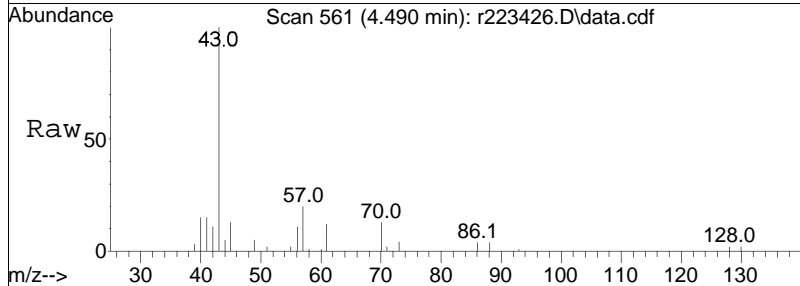
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
72	25.2	23.0	34.6
57	8.1	6.3	9.5

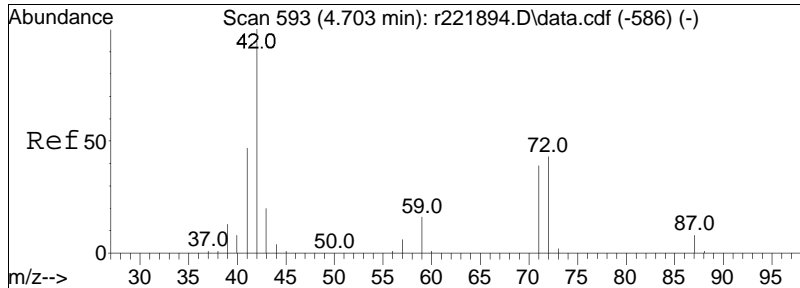




#38
 Ethyl Acetate
 Concen: 0.73 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

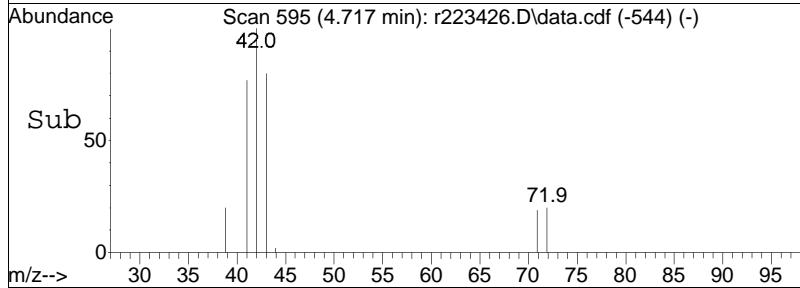
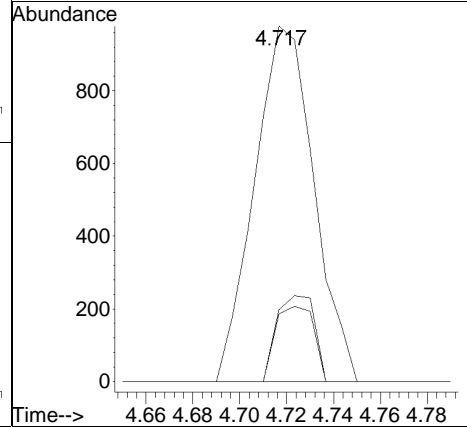
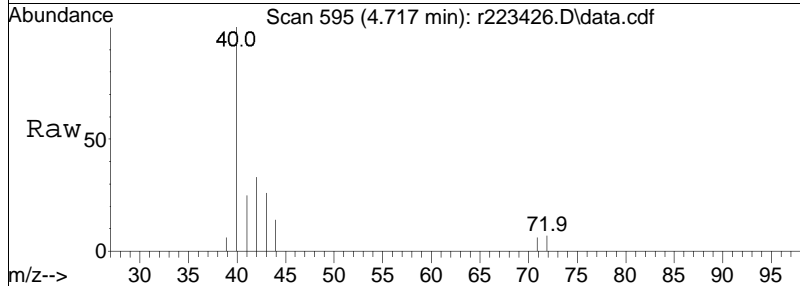
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	102.5	91.7	137.5
43	812.6	971.0	1456.6#

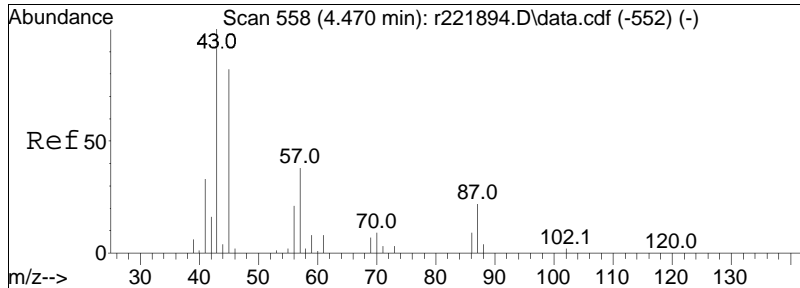




#40
 Tetrahydrofuran
 Concen: 0.08 ppbV
 RT: 4.717 min Scan# 595
 Delta R.T. 0.013 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

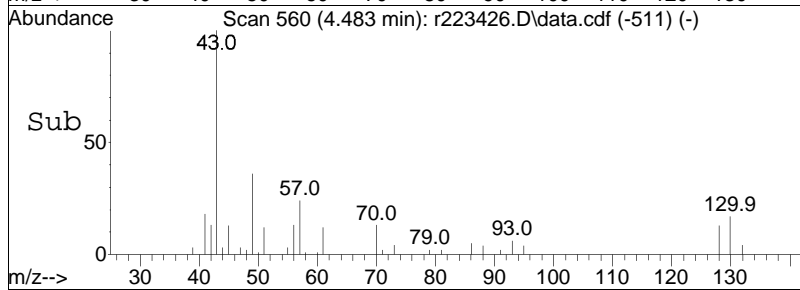
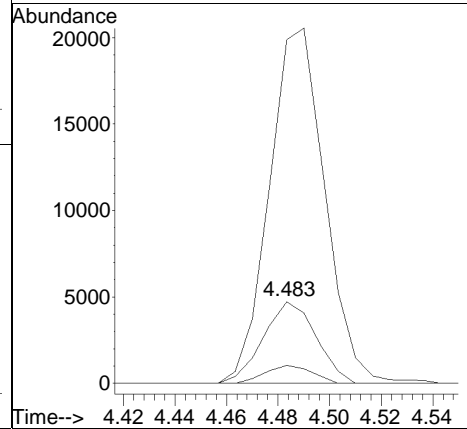
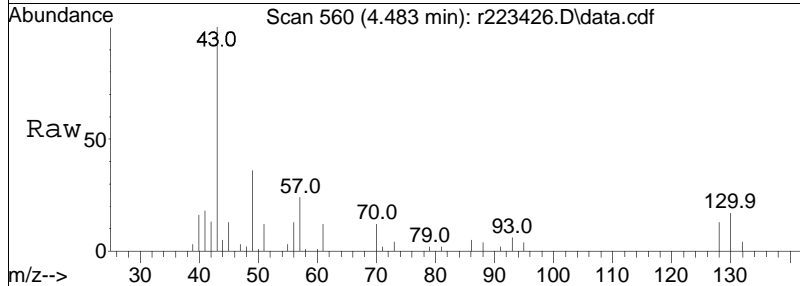
Tgt Ion:	42	Resp:	1723
Ion Ratio	Lower	Upper	
42	100		
71	19.0	31.4	47.2#
72	20.2	34.3	51.5#

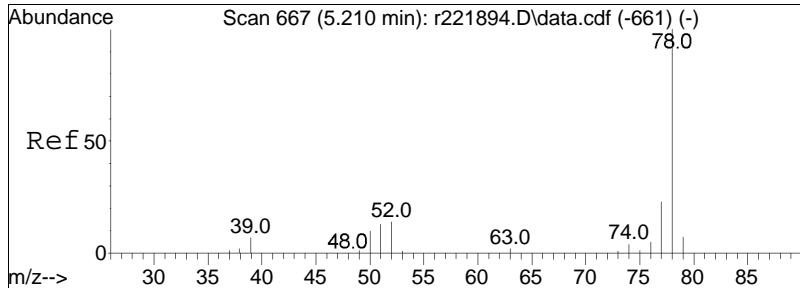




#44
 hexane
 Concen: 0.35 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

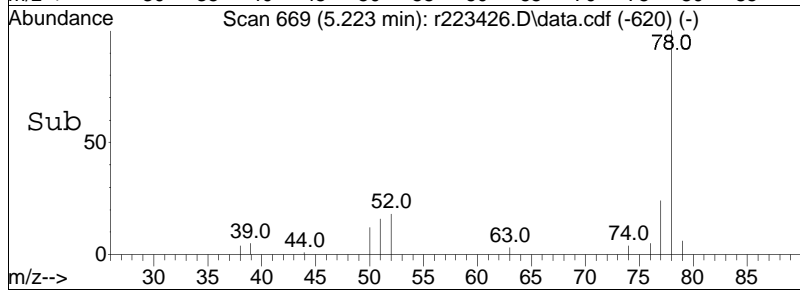
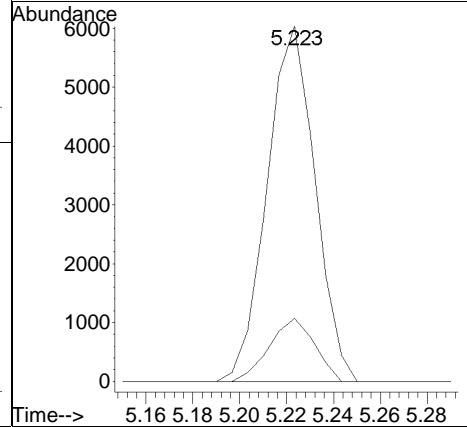
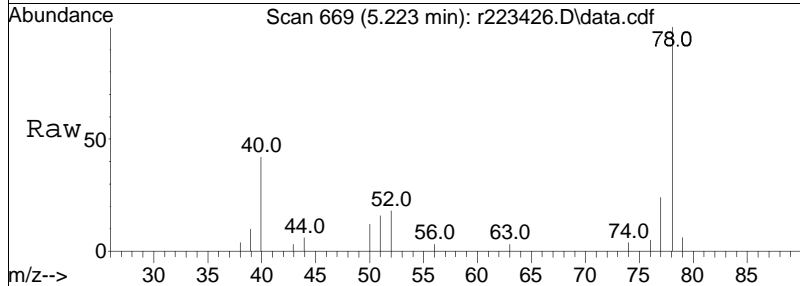
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	421.5	210.8	316.2#
86	22.1	17.9	26.9

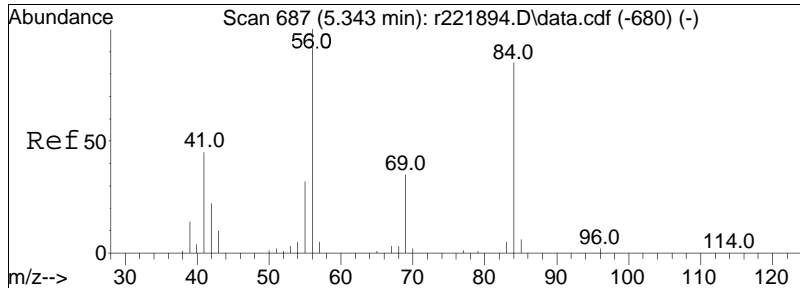




#50
benzene
Concen: 0.21 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223426.D
Acq: 28 Mar 2024 8:40 PM

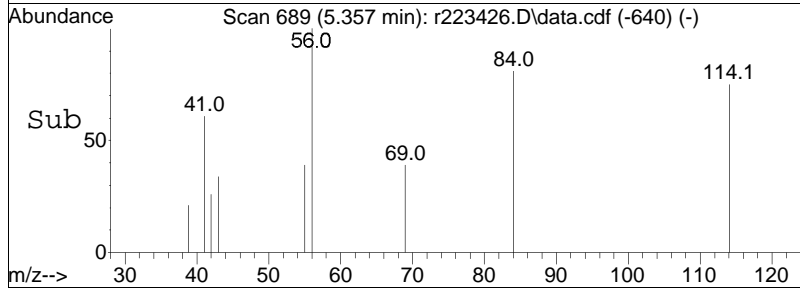
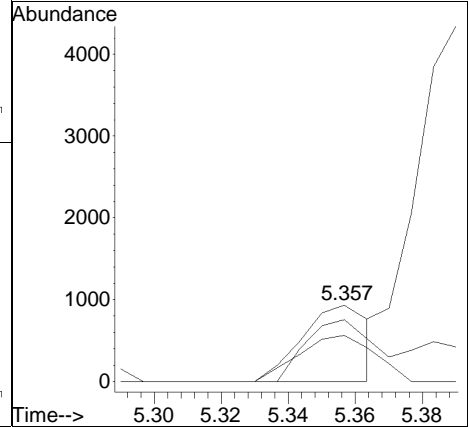
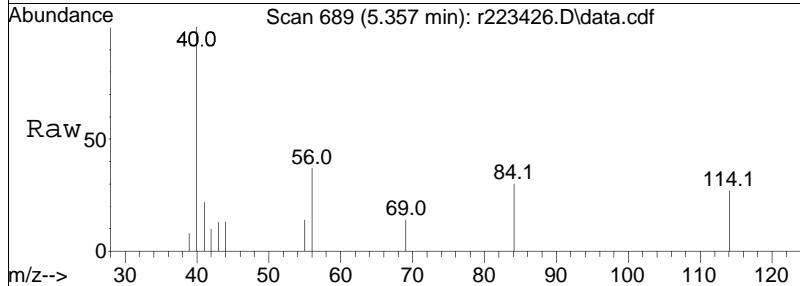
Tgt Ion: 78 Resp: 8588
Ion Ratio Lower Upper
78 100
52 17.7 11.3 16.9#

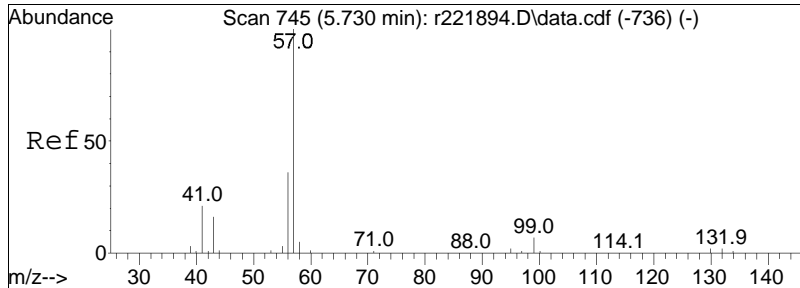




#53
 cyclohexane
 Concen: 0.06 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

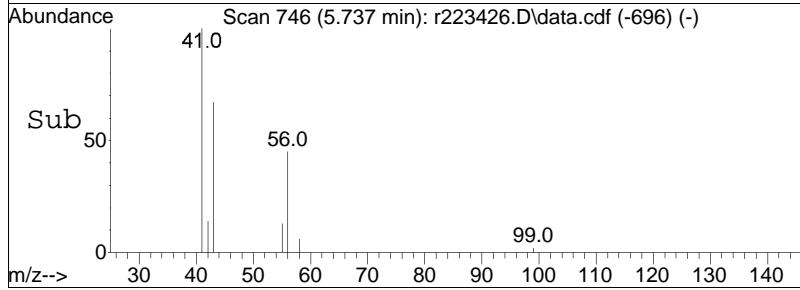
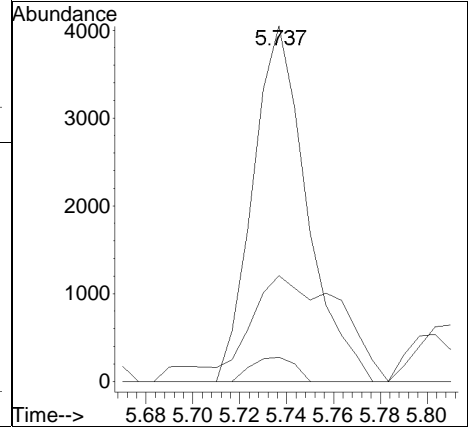
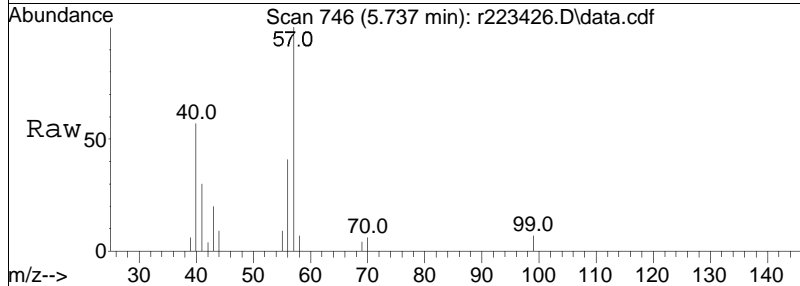
Tgt Ion:	Resp:	Lower	Upper
56	100		
84	81.1	70.9	106.3
41	60.5	35.8	53.6#

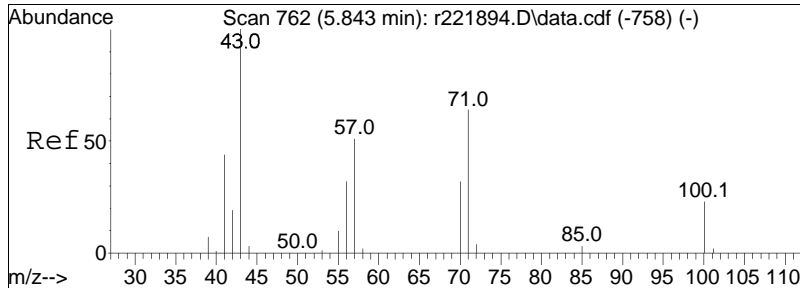




#60
 2,2,4-trimethylpentane
 Concen: 0.10 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

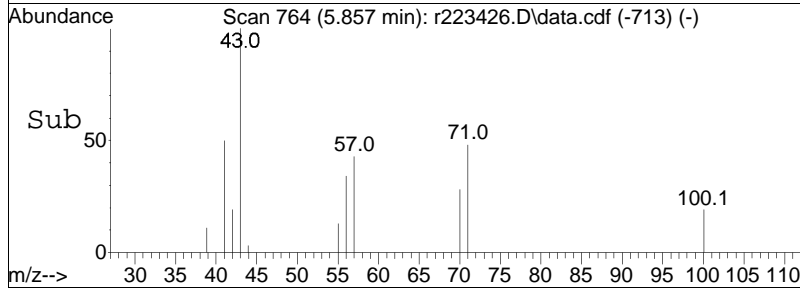
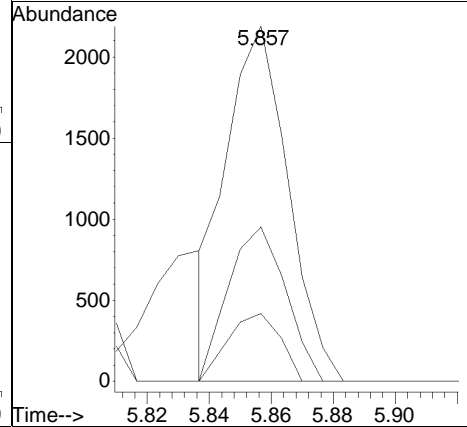
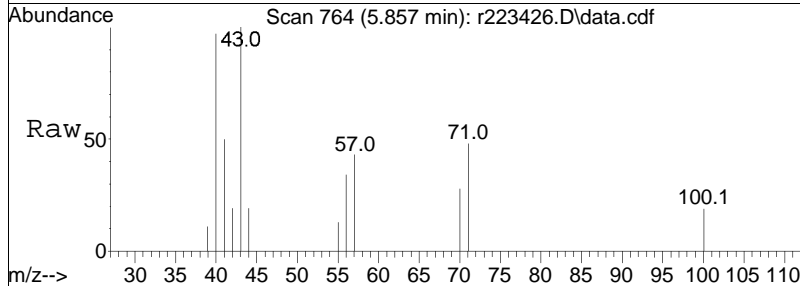
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
99	6.8	5.7	8.5
41	29.8	16.9	25.3#

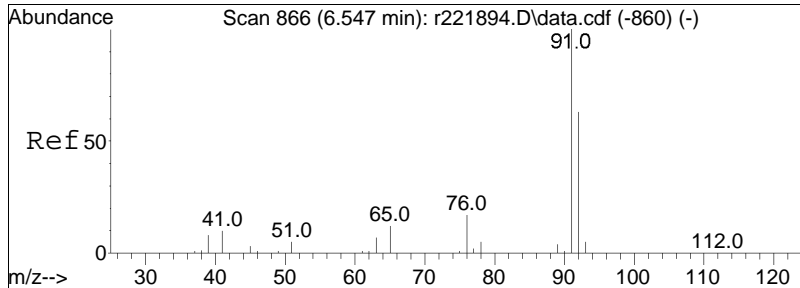




#62
 heptane
 Concen: 0.12 ppbV m
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

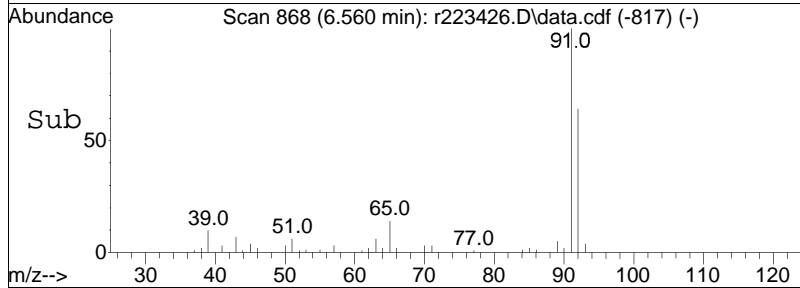
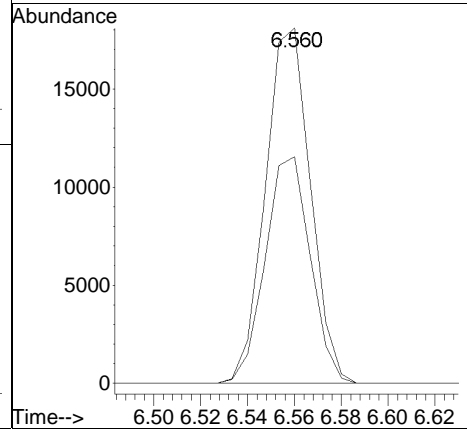
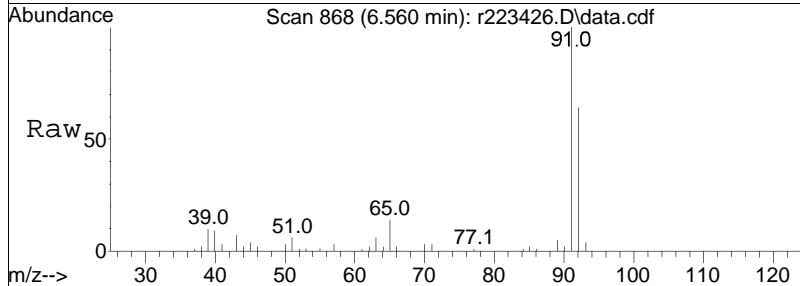
Tgt Ion:	43	Resp:	3036
Ion Ratio	100	Lower	Upper
43	100		
57	43.5	40.4	60.6
100	19.1	19.0	28.6

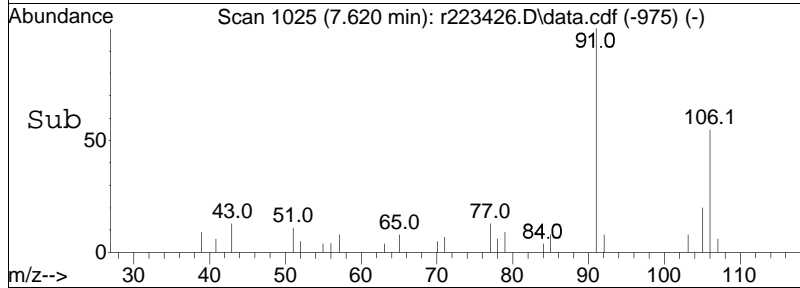
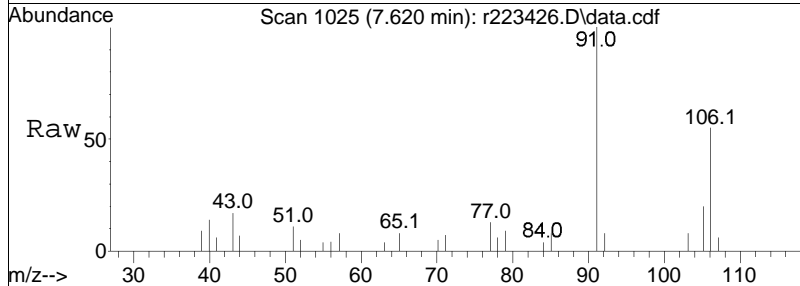
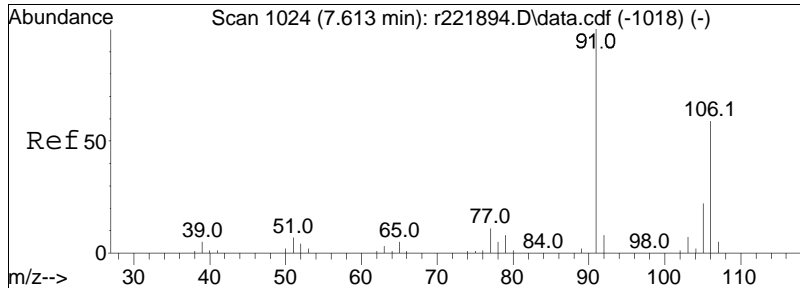




#68
 toluene
 Concen: 0.35 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

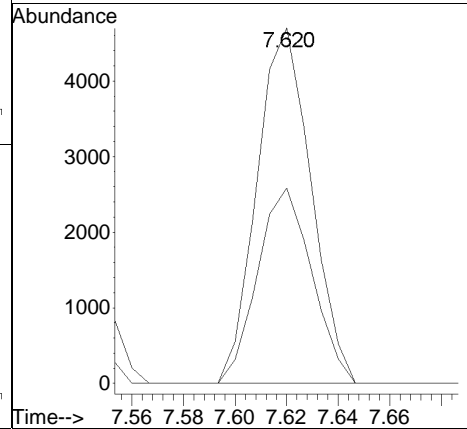
Tgt Ion	Resp	Lower	Upper
91	100		
92	63.8	50.7	76.1

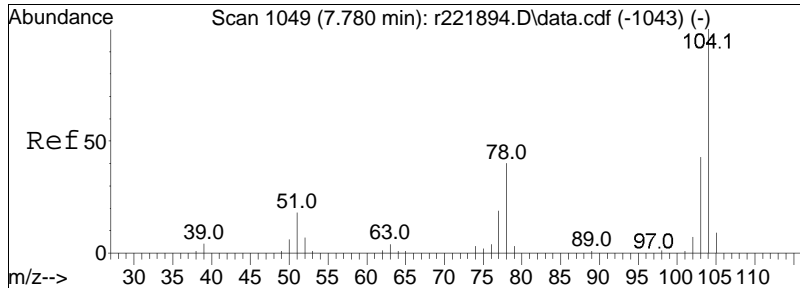




#83
 m+p-xylene
 Concen: 0.11 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

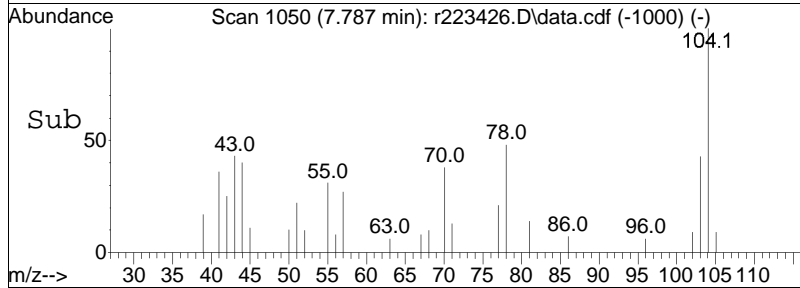
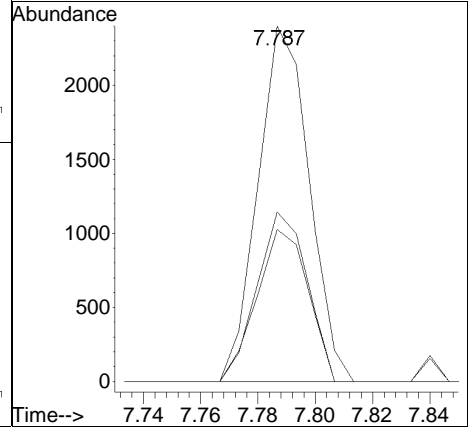
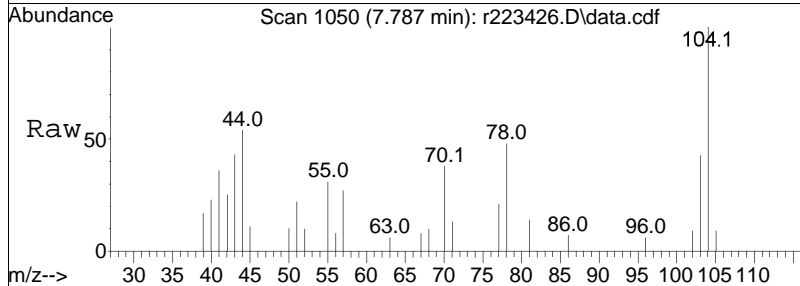
Tgt Ion: 91 Resp: 6840
 Ion Ratio Lower Upper
 91 100
 106 55.0 47.4 71.2





#85
 styrene
 Concen: 0.05 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223426.D
 Acq: 28 Mar 2024 8:40 PM

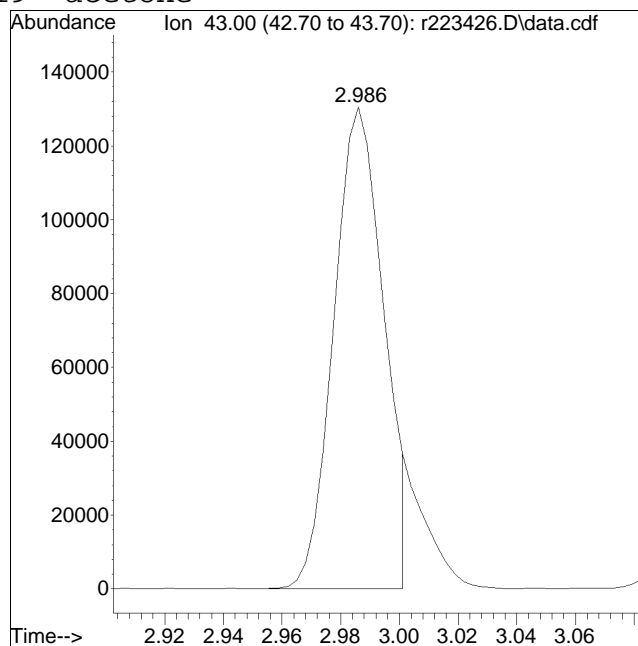
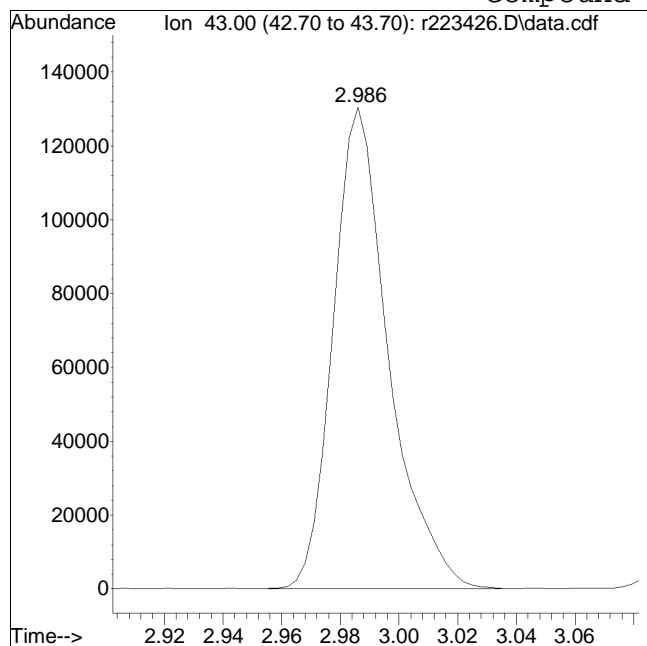
Tgt Ion	Resp	Lower	Upper
104	100		
103	42.8	34.3	51.5
78	47.7	32.3	48.5



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223426.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 0 Instrument :
Sample : L2414212-02,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #19: acetone



Original Peak Response = 171606

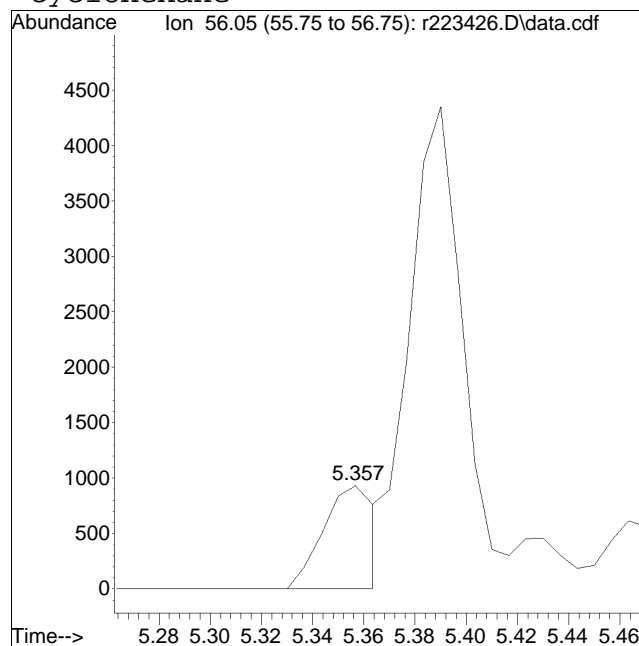
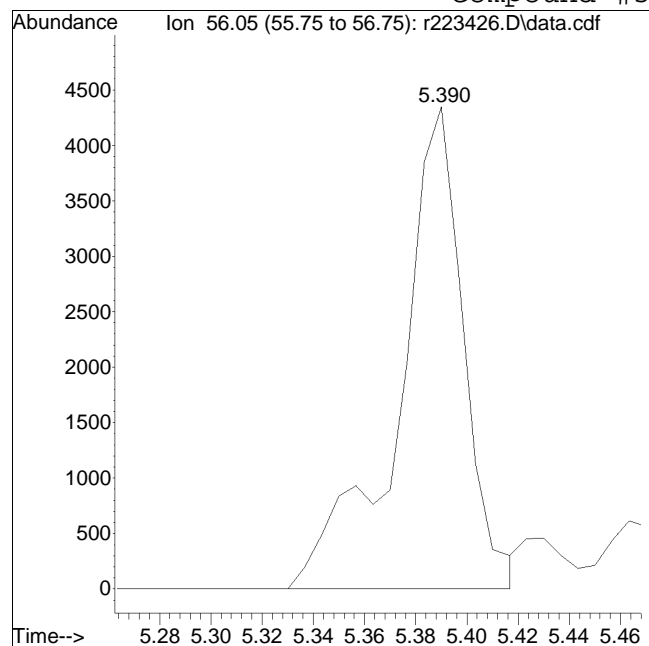
Manual Peak Response = 154994 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223426.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 0 Instrument :
Sample : L2414212-02,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #53: cyclohexane



Original Peak Response = 7611

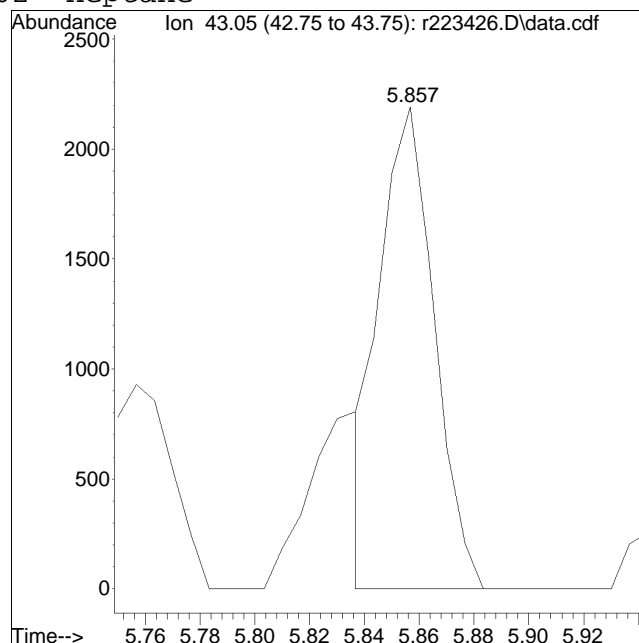
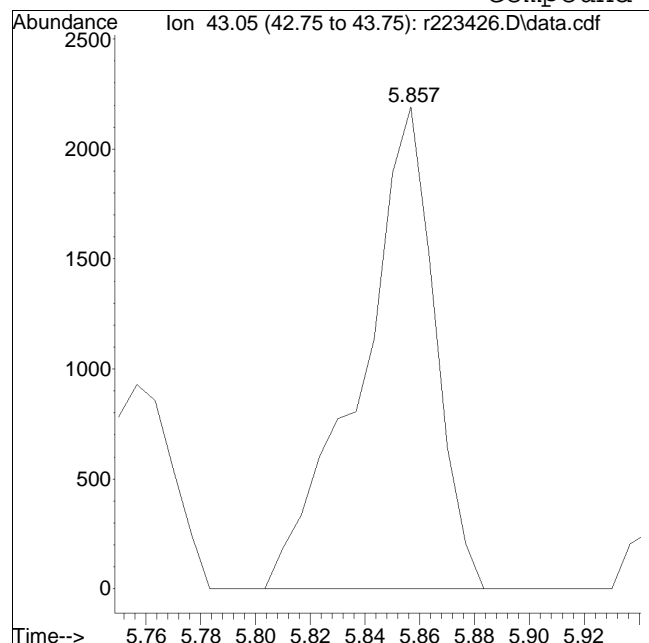
Manual Peak Response = 1289 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223426.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 0 Instrument :
Sample : L2414212-02,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #62: heptane



Original Peak Response = 4117

Manual Peak Response = 3036 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223427.D
 Acq On : 28 Mar 2024 9:12 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-03,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:41 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	199578	10.000	ppbV	0.01
Standard Area =	222450		Recovery =		89.72%	
43) 1,4-difluorobenzene	5.390	114	556407	10.000	ppbV #	0.01
Standard Area =	633782		Recovery =		87.79%	
67) chlorobenzene-D5	7.353	54	82400	10.000	ppbV #	0.00
Standard Area =	85965		Recovery =		95.85%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.220	85	8363	0.520	ppbV	98
6) chloromethane	2.325	50	5698	0.653	ppbV	97
7) Freon-114	2.385		0	N.D.		
10) 1,3-butadiene	2.525		0	N.D.		
13) bromomethane	2.650		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	455147	141.985	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.989	43	219258M6	34.147	ppbV	
21) trichlorofluoromethane	3.073	101	2264	0.264	ppbV	98
22) isopropyl alcohol	3.097	45	75202	7.064	ppbV	100
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	3.430	49	3124	0.197	ppbV	90
29) 3-chloropropene	3.455		0	N.D.		
30) carbon disulfide	3.575		0	N.D.		
31) Freon 113	3.555	101	1680	0.070	ppbV	88
32) trans-1,2-dichloroethene	3.977		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	4.170	43	11767	0.363	ppbV	94
38) Ethyl Acetate	4.490	61	3921	0.778	ppbV #	23
39) chloroform	4.523	83	1239	0.054	ppbV #	95
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	4.877		0	N.D.		
44) hexane	4.483	57	3631	0.185	ppbV #	1
50) benzene	5.223	78	9236	0.223	ppbV	97
53) cyclohexane	5.357	56	1923M6	0.085	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223427.D
 Acq On : 28 Mar 2024 9:12 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-03,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:40:41 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

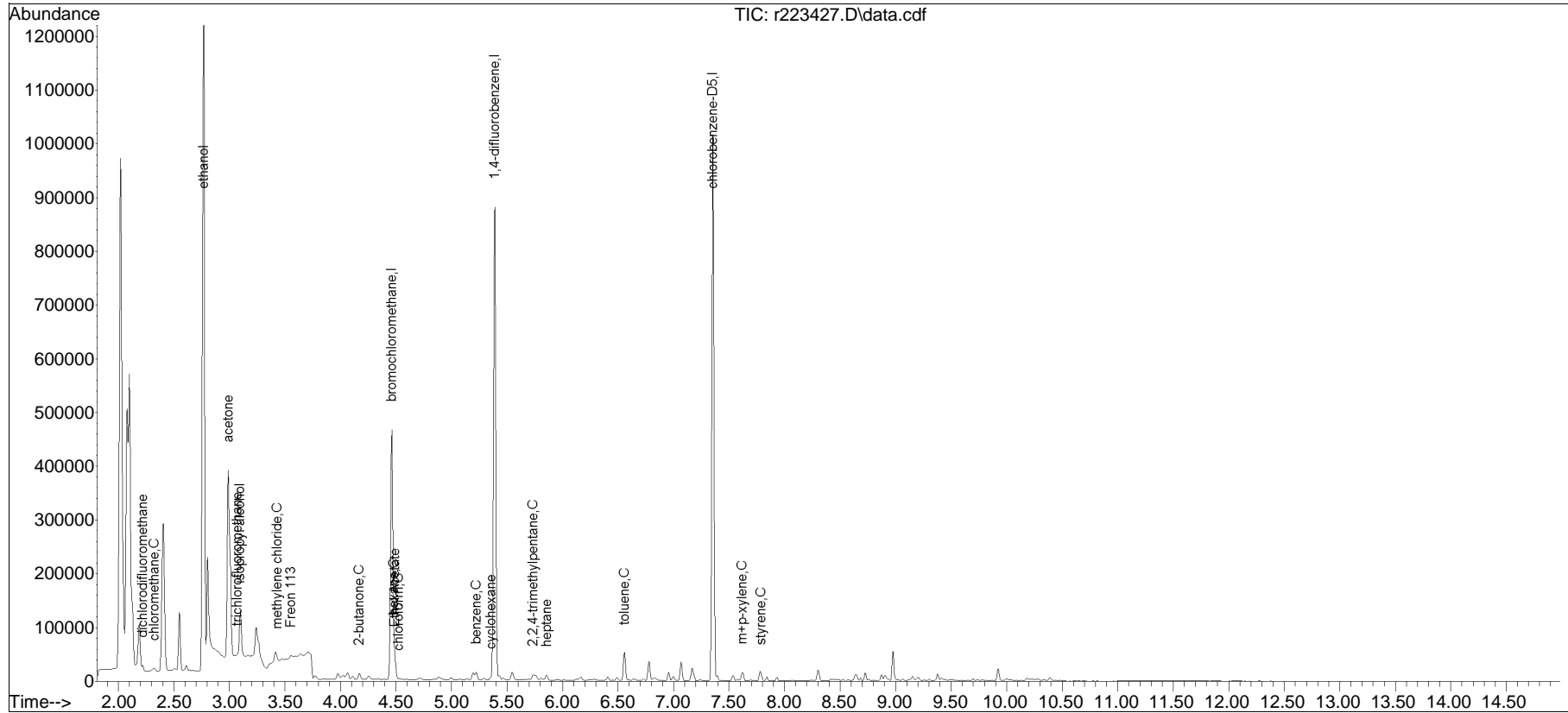
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	8045	0.128	ppbV #	89
62) heptane	5.857	43	3395M6	0.137	ppbV	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	26061	0.379	ppbV	98
72) 2-hexanone	0.000		0		N.D.	d
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.380		0		N.D.	
81) ethylbenzene	7.540		0		N.D.	
83) m+p-xylene	7.620	91	7076	0.109	ppbV	94
84) bromoform	0.000		0		N.D.	
85) styrene	7.787	104	2990	0.052	ppbV #	92
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.413		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	8.797		0		N.D.	
103) 1,4-dichlorobenzene	8.797		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

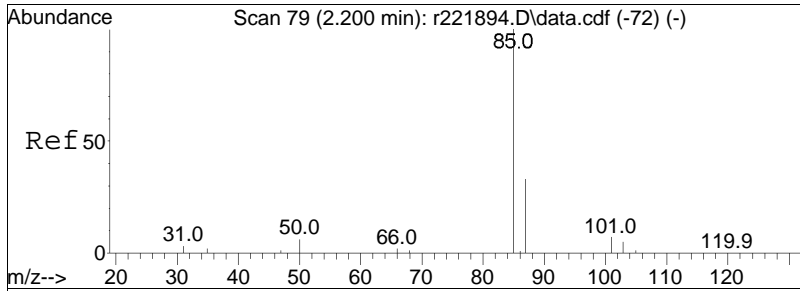
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223427.D
Acq On : 28 Mar 2024 9:12 PM
Operator : AIRLAB22:JMB
Sample : L2414212-03,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

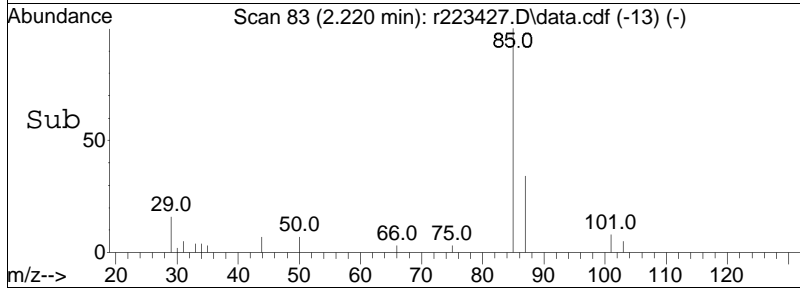
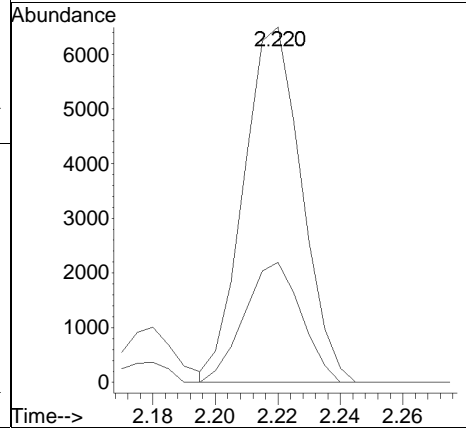
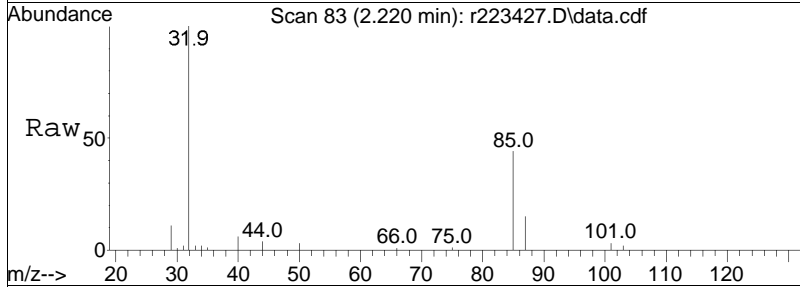
Quant Time: Mar 29 07:40:41 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

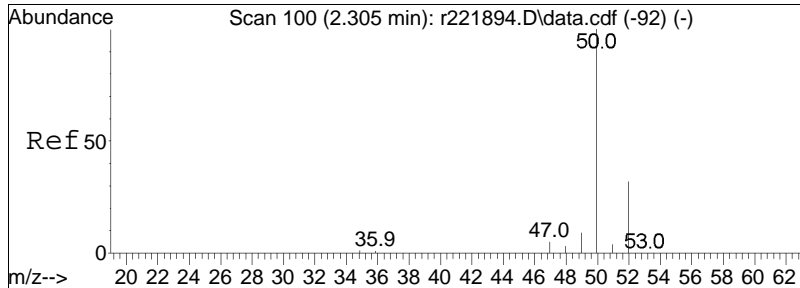




#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 2.220 min Scan# 83
Delta R.T. 0.020 min
Lab File: r223427.D
Acq: 28 Mar 2024 9:12 PM

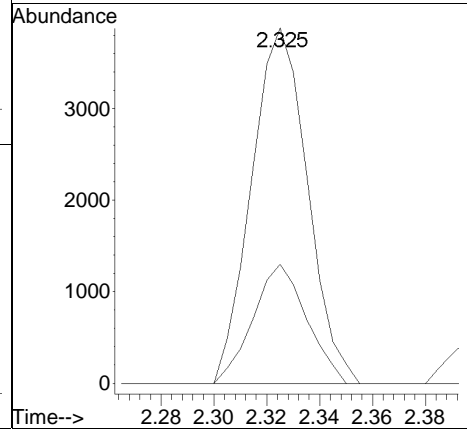
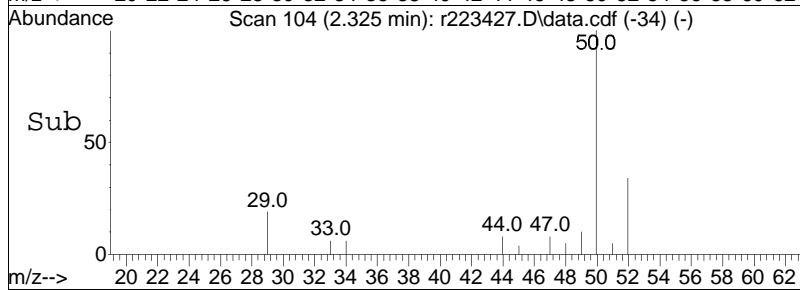
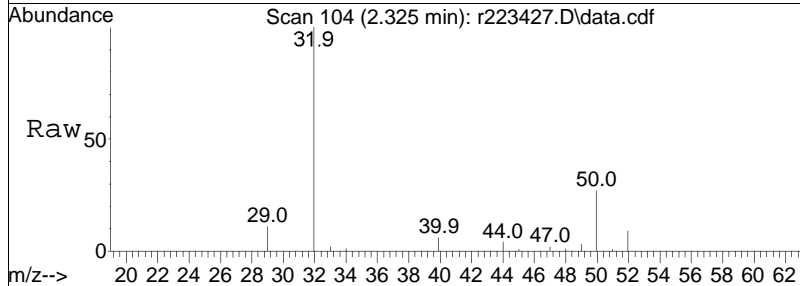
Tgt Ion: 85 Resp: 8363
Ion Ratio Lower Upper
85 100
87 33.8 26.3 39.5

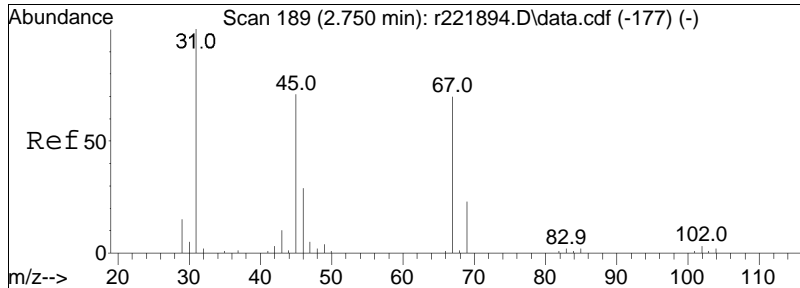




#6
 chloromethane
 Concen: 0.65 ppbV
 RT: 2.325 min Scan# 104
 Delta R.T. 0.020 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

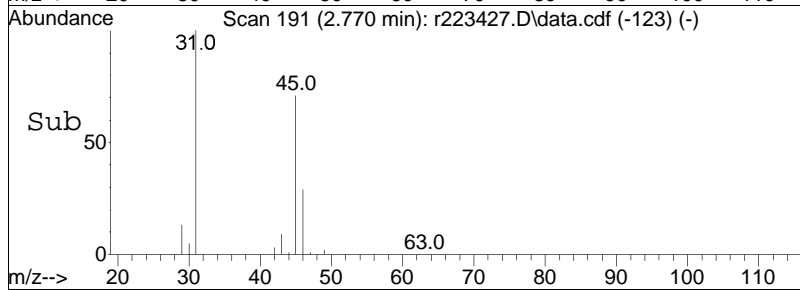
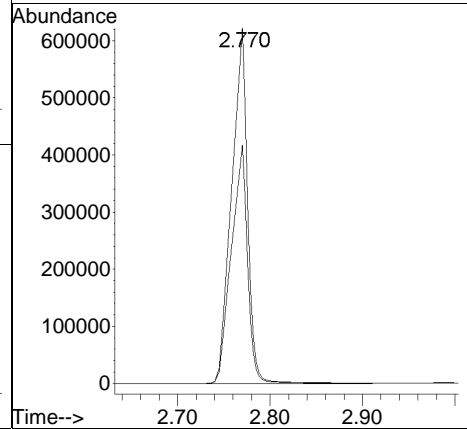
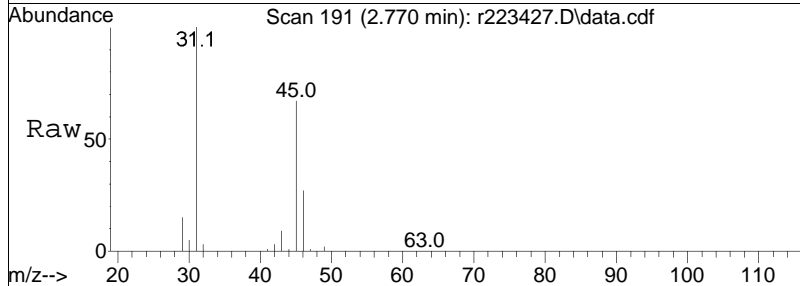
Tgt Ion	Resp	Lower	Upper
50	5698		
50	100		
52	33.5	25.5	38.3

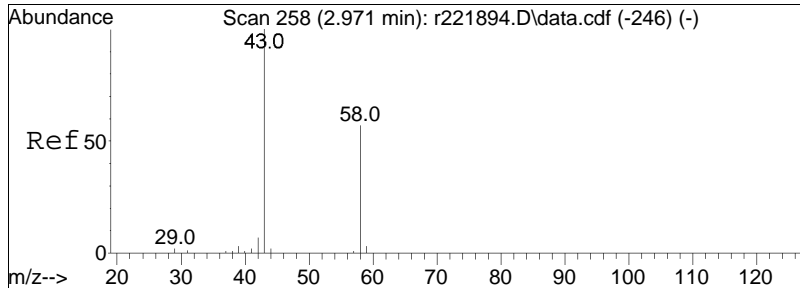




#15
 ethanol
 Concen: 141.98 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

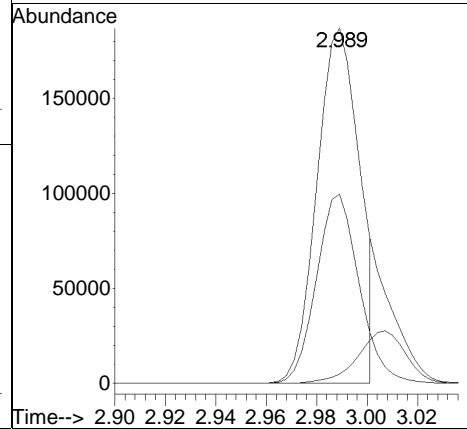
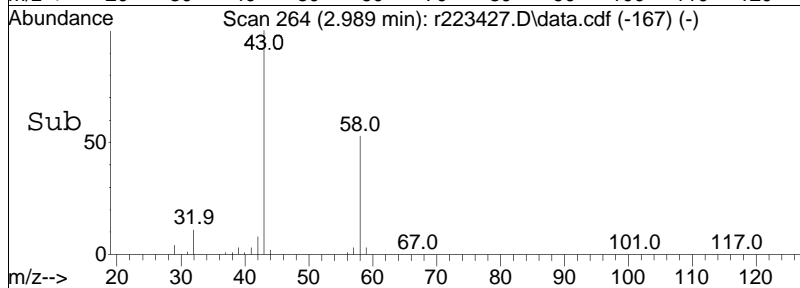
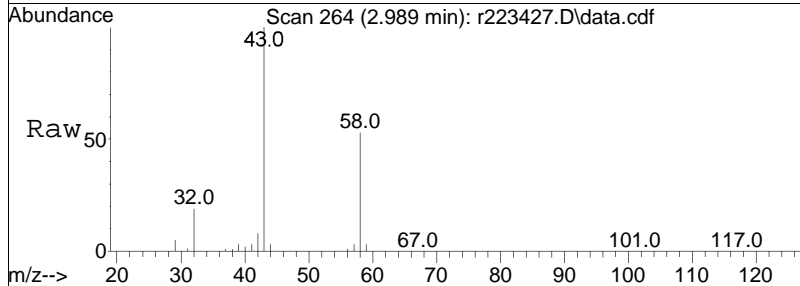
Tgt Ion	Resp	Lower	Upper
31	100		
45	67.1	56.6	84.8

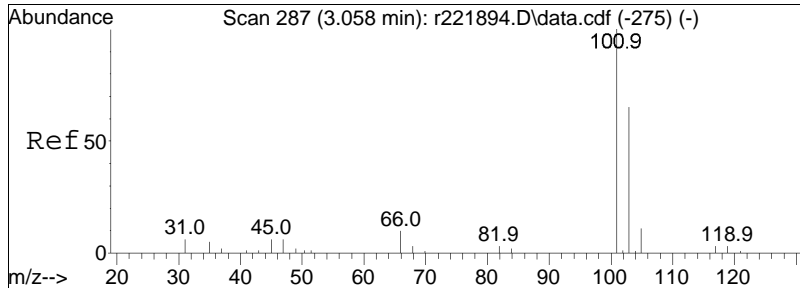




#19
 acetone
 Concen: 34.15 ppbV m
 RT: 2.989 min Scan# 264
 Delta R.T. 0.018 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

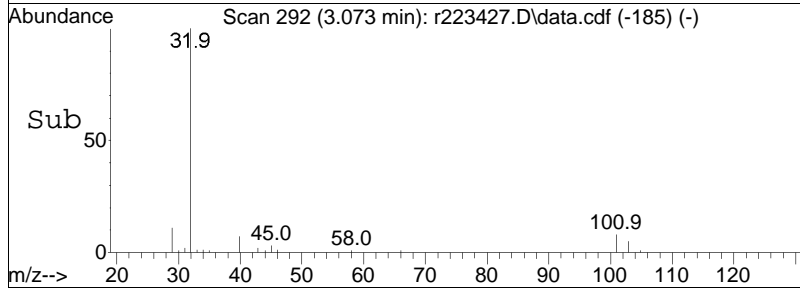
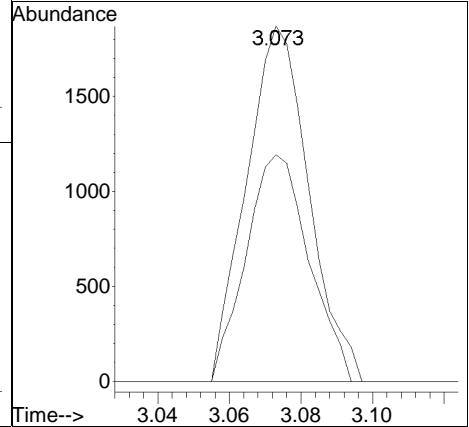
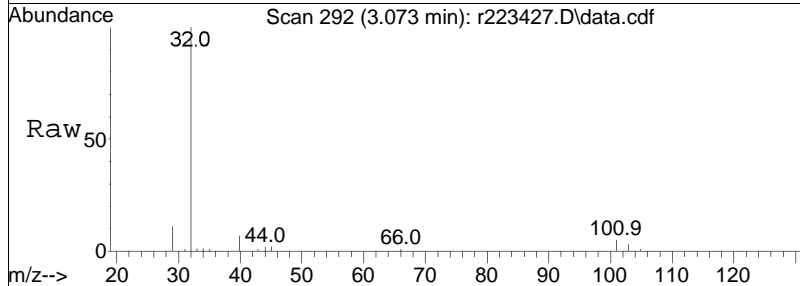
Tgt Ion	Resp	Lower	Upper
43	219258		
58	53.3	45.5	68.3
57	2.6	1.0	1.6#

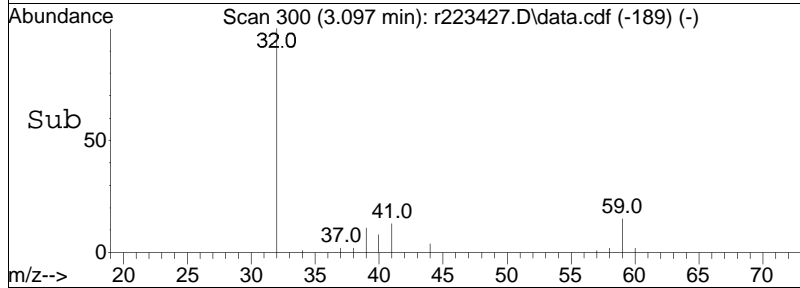
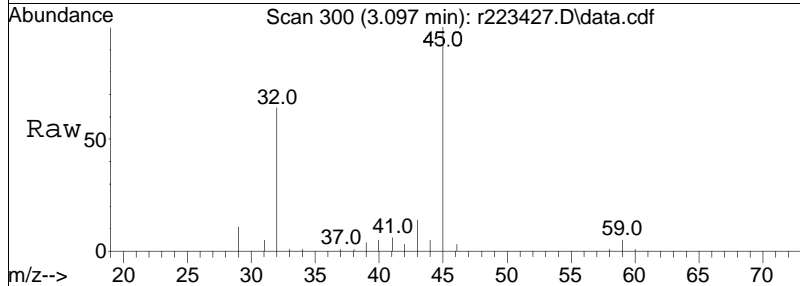
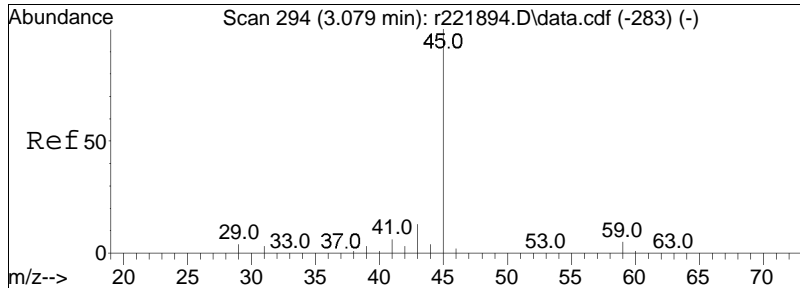




#21
trichlorofluoromethane
Concen: 0.26 ppbV
RT: 3.073 min Scan# 292
Delta R.T. 0.015 min
Lab File: r223427.D
Acq: 28 Mar 2024 9:12 PM

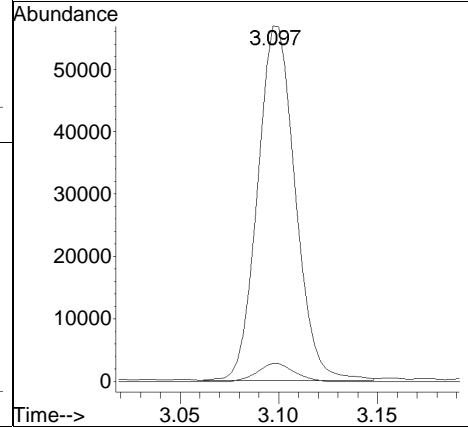
Tgt Ion	Resp	Lower	Upper
101	2264		
101	100		
103	63.8	52.2	78.4

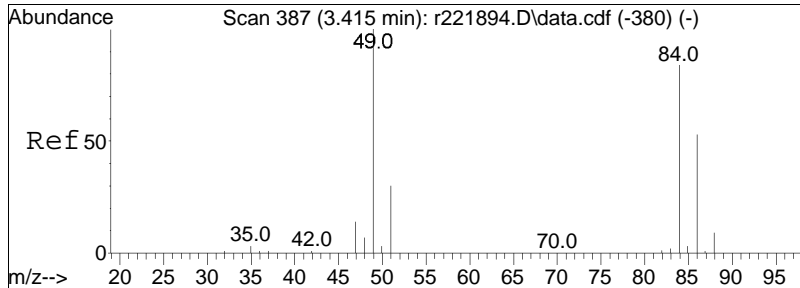




#22
 isopropyl alcohol
 Concen: 7.06 ppbV
 RT: 3.097 min Scan# 300
 Delta R.T. 0.018 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

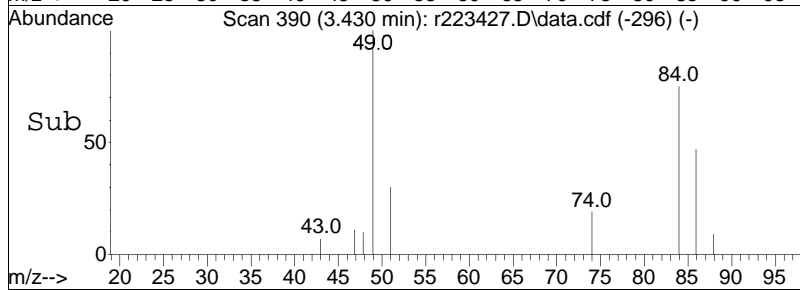
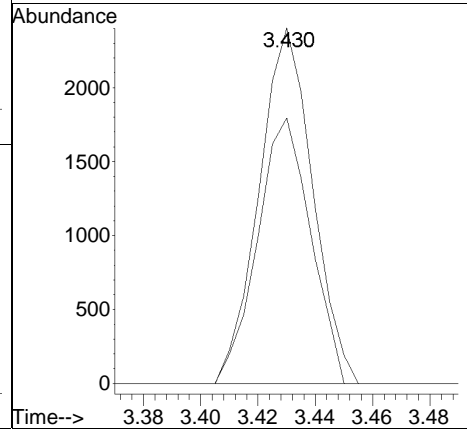
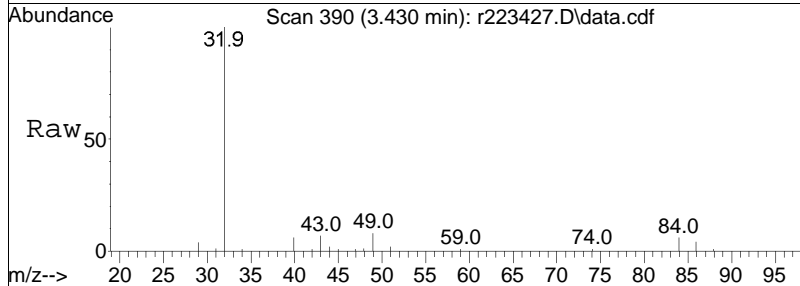
Tgt Ion:	45	Resp:	75202
Ion Ratio	100	Lower	Upper
59	5.1	4.0	6.0

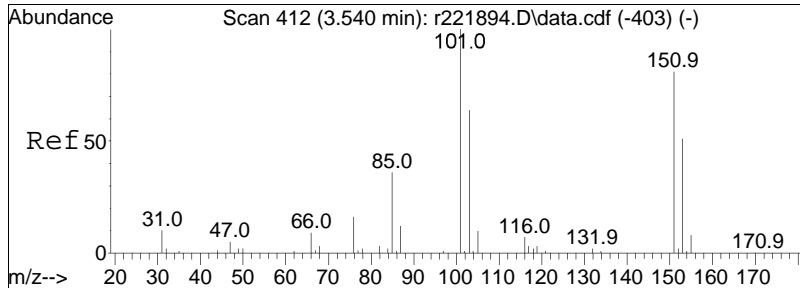




#28
 methylene chloride
 Concen: 0.20 ppbV
 RT: 3.430 min Scan# 390
 Delta R.T. 0.015 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

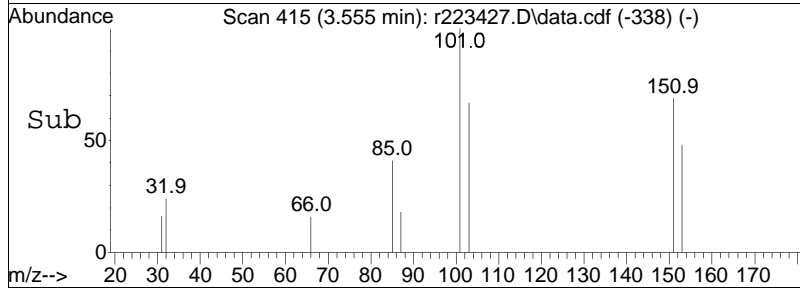
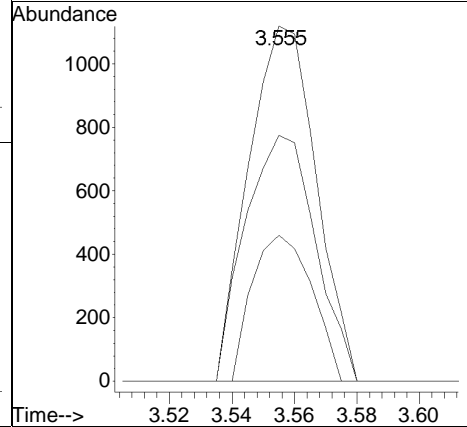
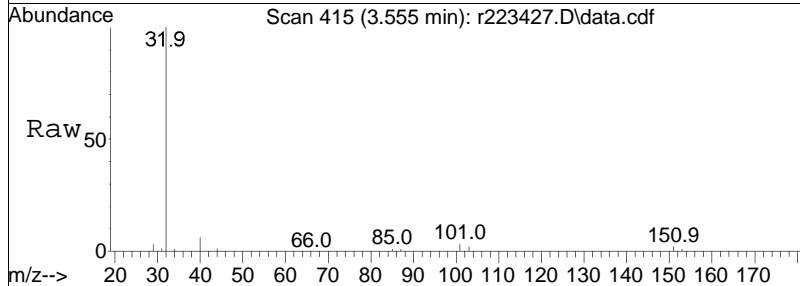
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	74.7	67.2	100.8

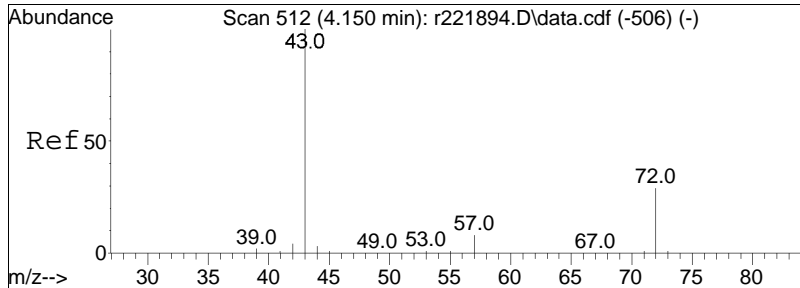




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

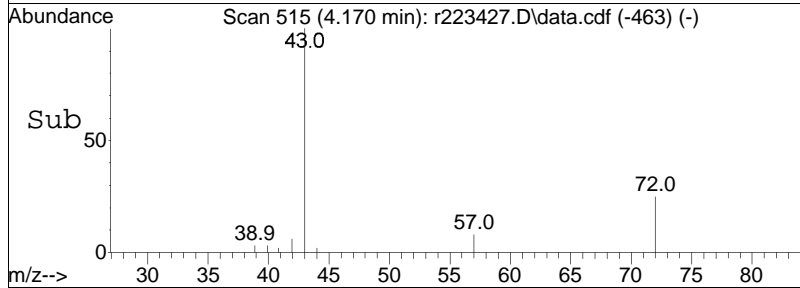
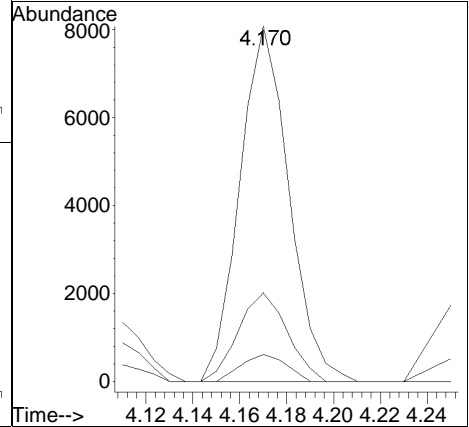
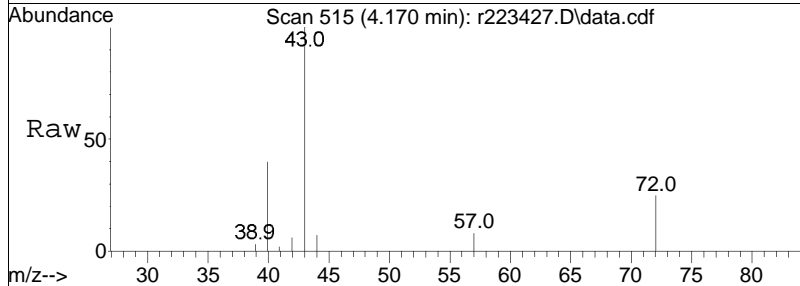
Tgt Ion	Ratio	Lower	Upper
101	100		
85	41.1	28.6	43.0
151	69.3	64.6	97.0

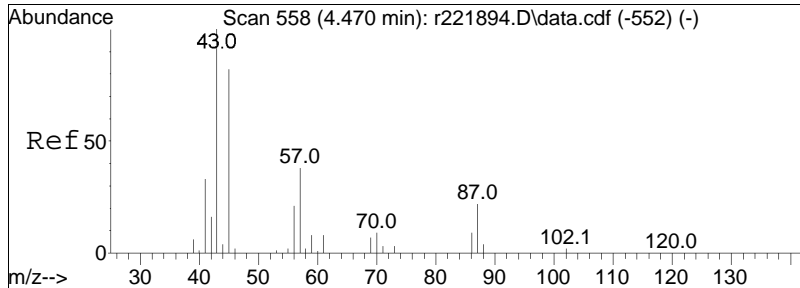




#36
 2-butanone
 Concen: 0.36 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

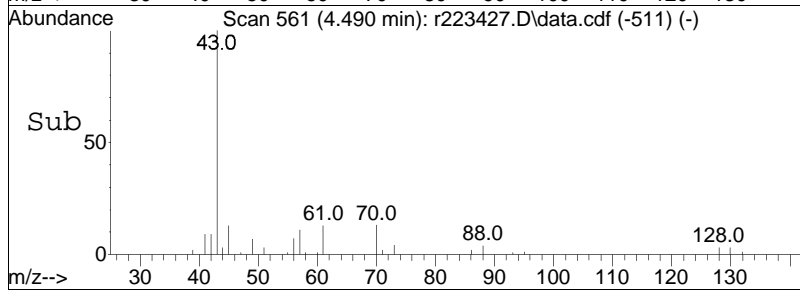
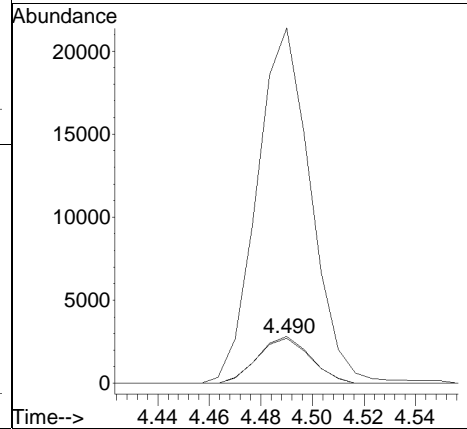
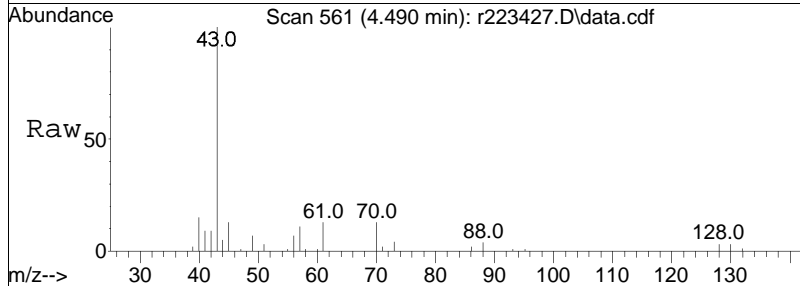
Tgt Ion:	43	Resp:	11767
Ion Ratio	Lower	Upper	
43	100		
72	24.9	23.0	34.6
57	7.6	6.3	9.5

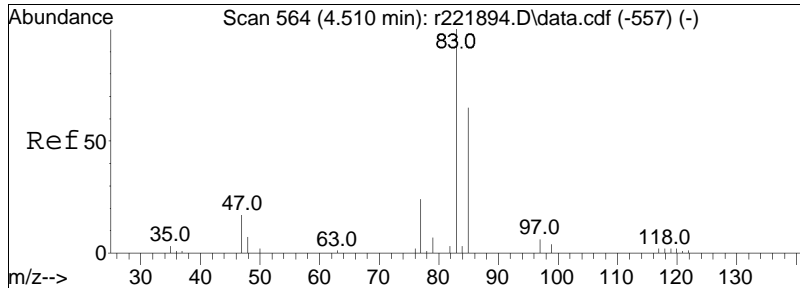




#38
 Ethyl Acetate
 Concen: 0.78 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

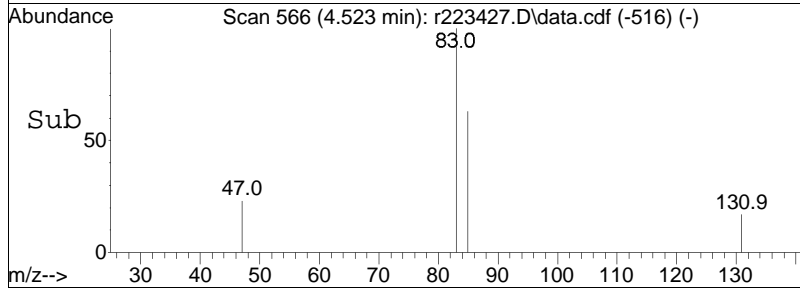
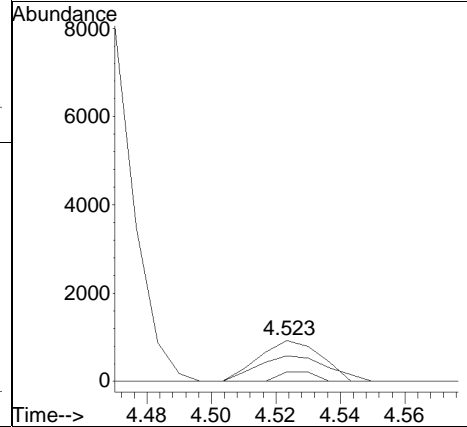
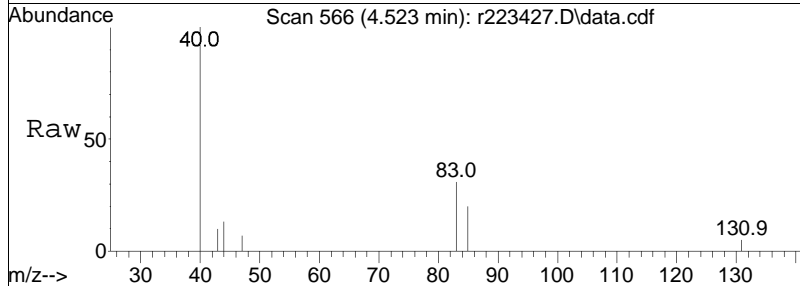
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	104.0	91.7	137.5
43	786.6	971.0	1456.6#

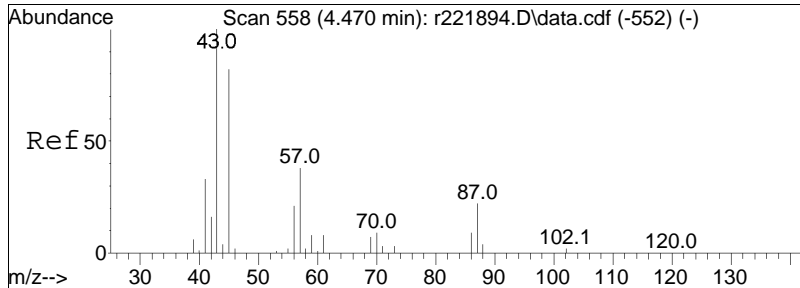




#39
 chloroform
 Concen: 0.05 ppbV
 RT: 4.523 min Scan# 566
 Delta R.T. 0.013 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

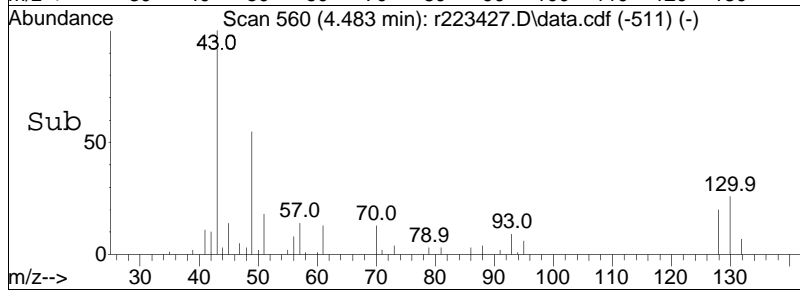
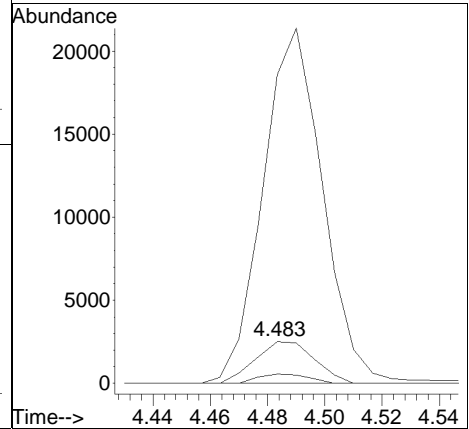
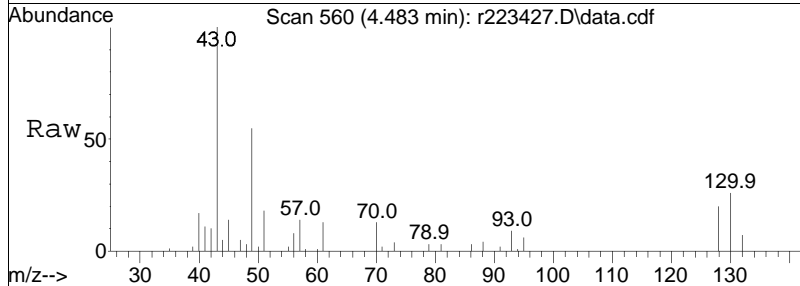
Tgt Ion	Resp	Lower	Upper
83	1239		
85	62.6	52.6	79.0
47	23.2	15.1	22.7#

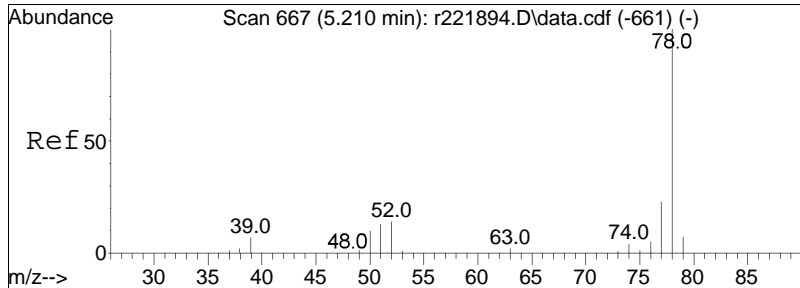




#44
 hexane
 Concen: 0.18 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

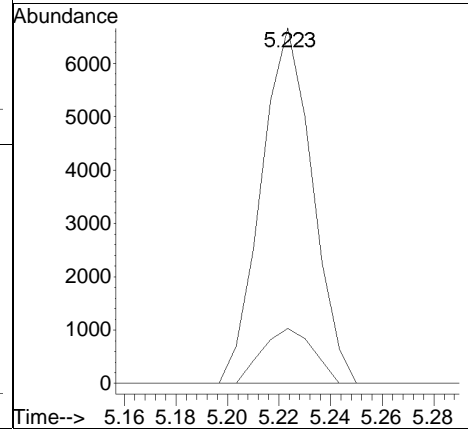
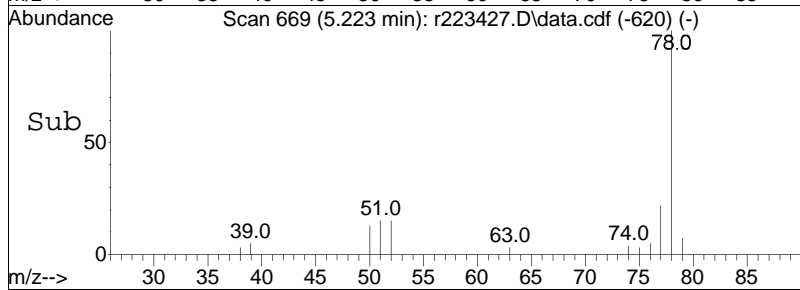
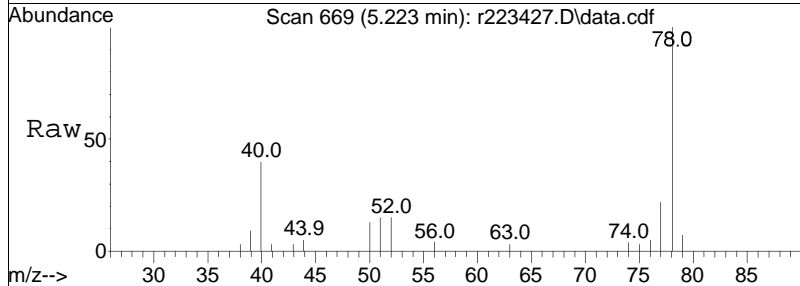
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	739.1	210.8	316.2#
86	22.3	17.9	26.9

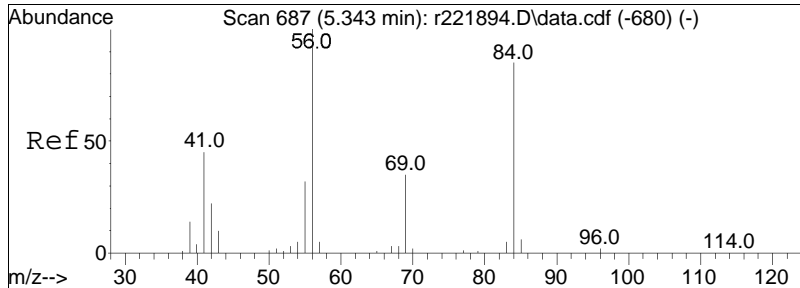




#50
benzene
Concen: 0.22 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223427.D
Acq: 28 Mar 2024 9:12 PM

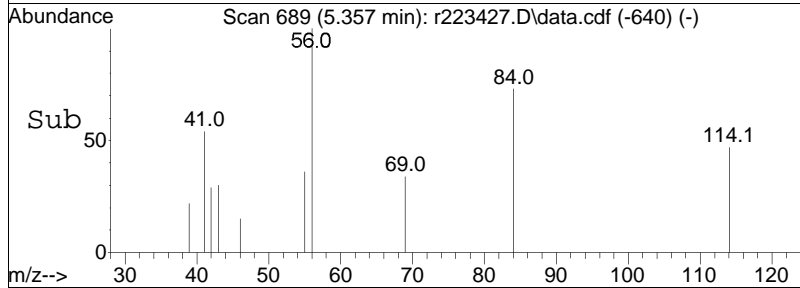
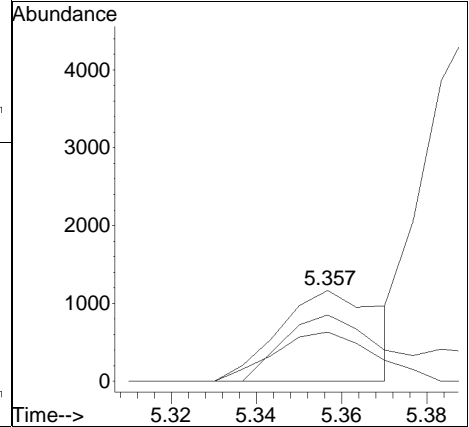
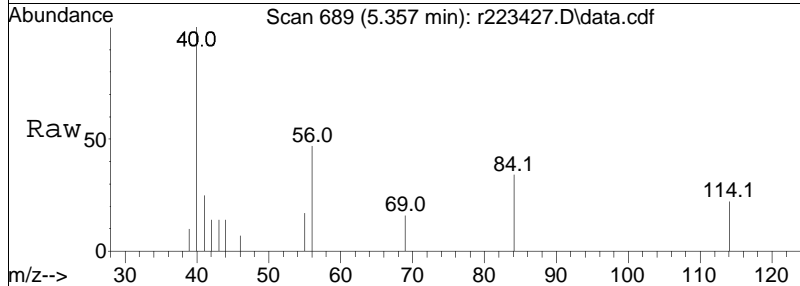
Tgt Ion	Resp	Lower	Upper
78	100		
52	15.5	11.3	16.9

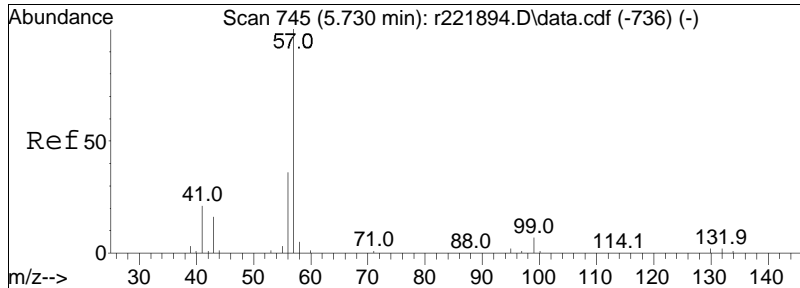




#53
 cyclohexane
 Concen: 0.09 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

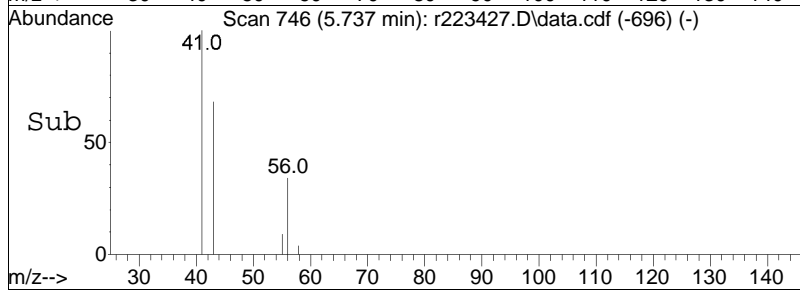
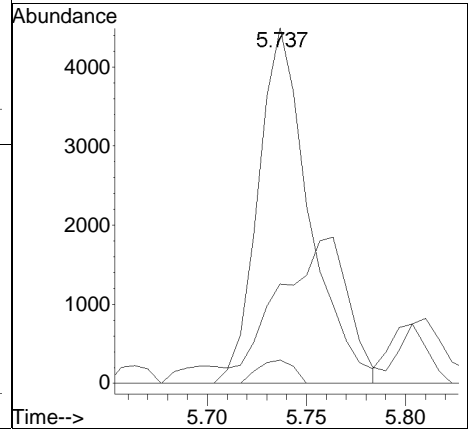
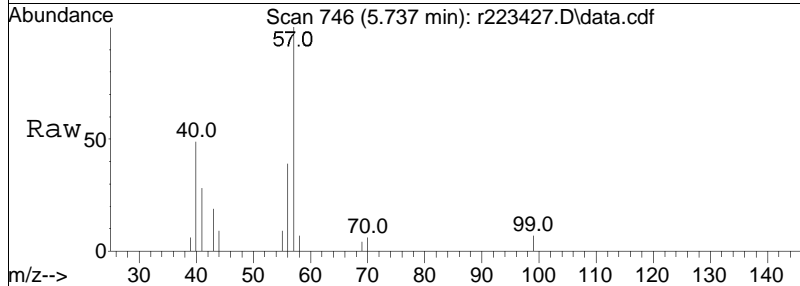
Tgt Ion:	Resp:	Lower	Upper
56	100		
84	73.1	70.9	106.3
41	54.3	35.8	53.6#

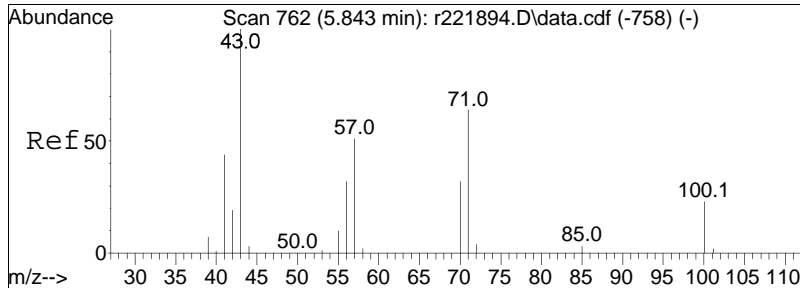




#60
 2,2,4-trimethylpentane
 Concen: 0.13 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

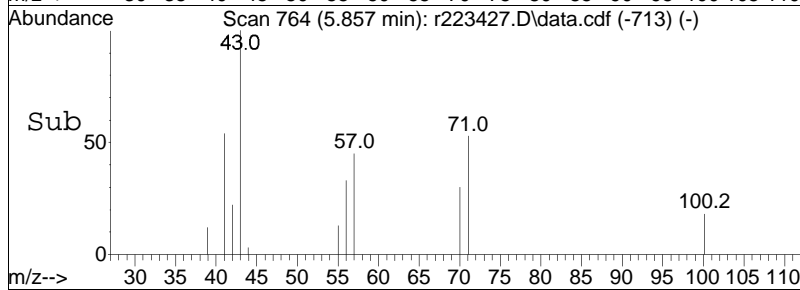
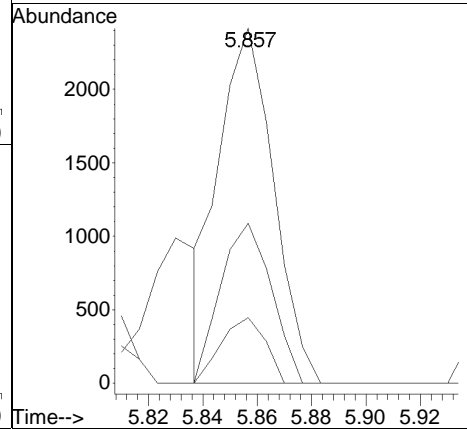
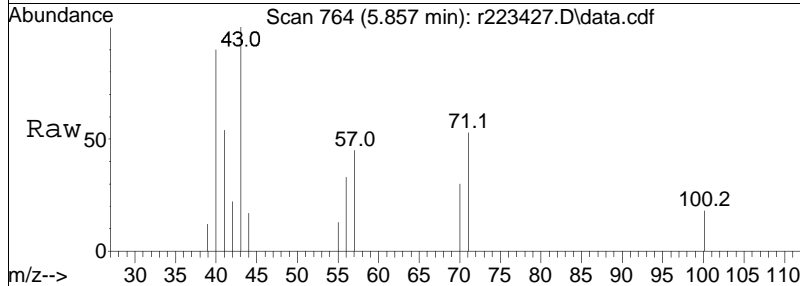
Tgt Ion	Resp	Lower	Upper
57	100		
99	6.6	5.7	8.5
41	28.0	16.9	25.3#

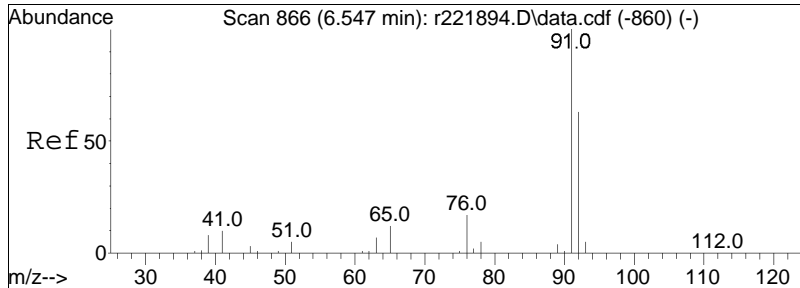




#62
 heptane
 Concen: 0.14 ppbV m
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

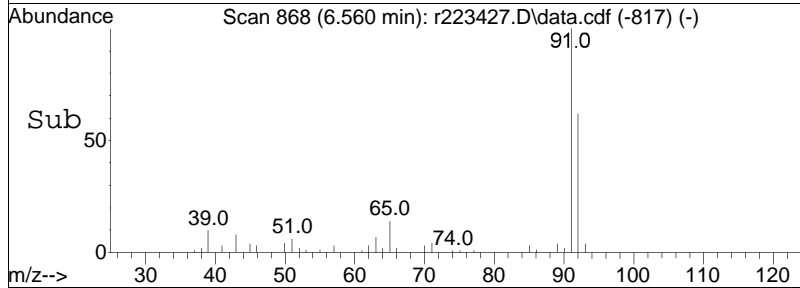
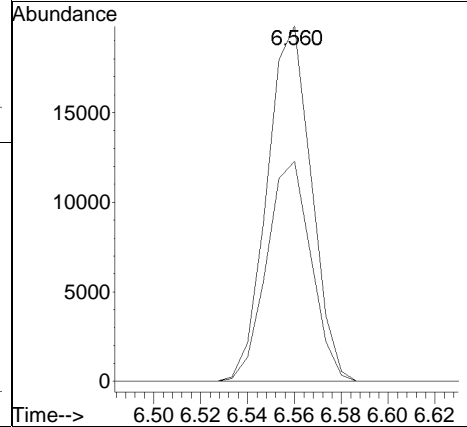
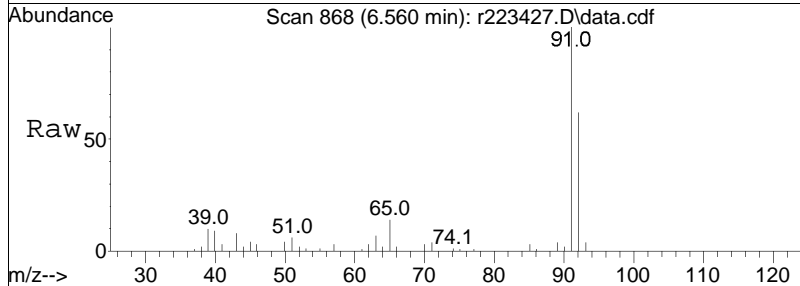
Tgt Ion:	43	Resp:	3395
Ion Ratio	Lower	Upper	
43	100		
57	45.1	40.4	60.6
100	18.5	19.0	28.6#

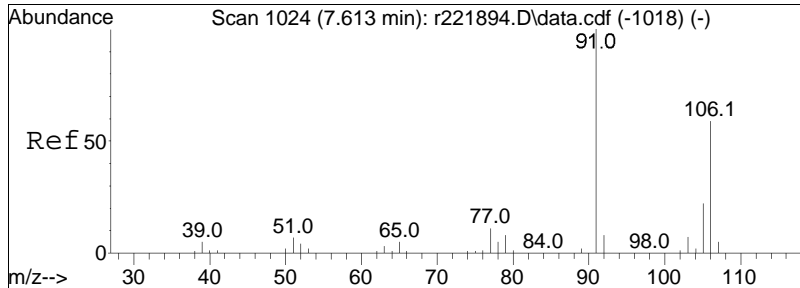




#68
 toluene
 Concen: 0.38 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

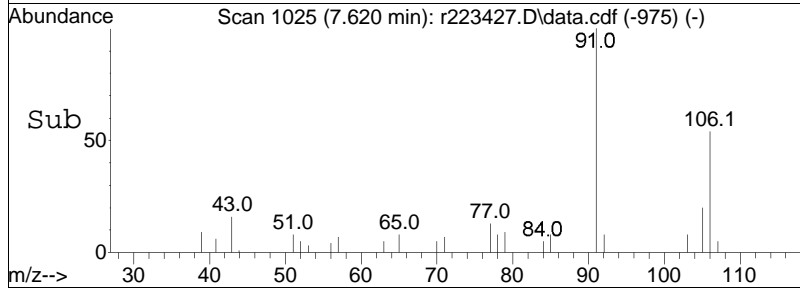
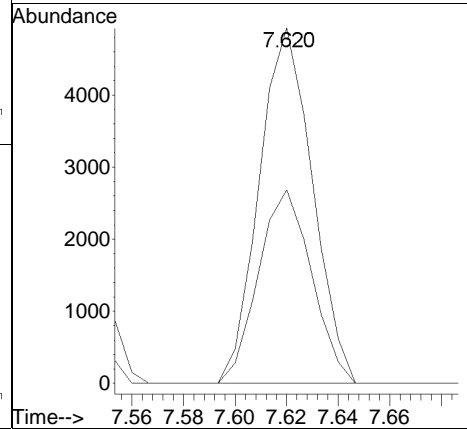
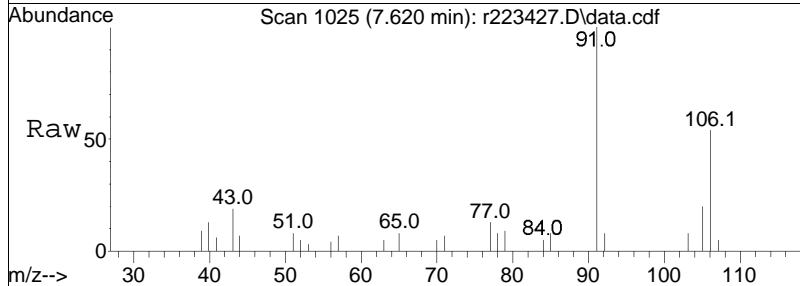
Tgt Ion:	91	Resp:	26061
Ion Ratio	Lower	Upper	
91	100		
92	62.0	50.7	76.1

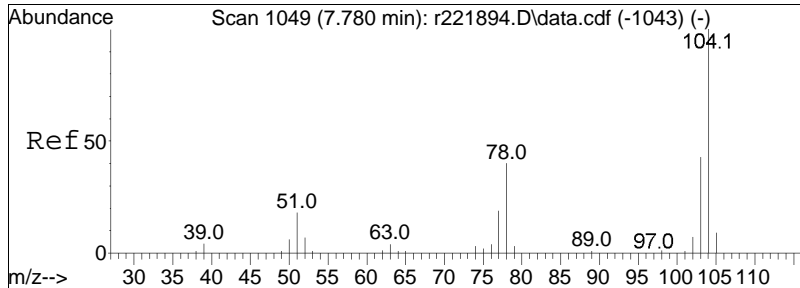




#83
 m+p-xylene
 Concen: 0.11 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

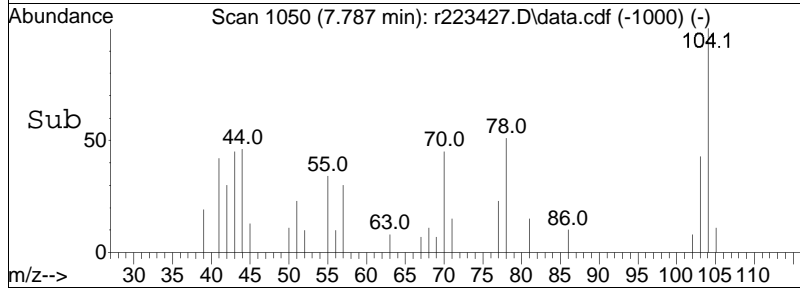
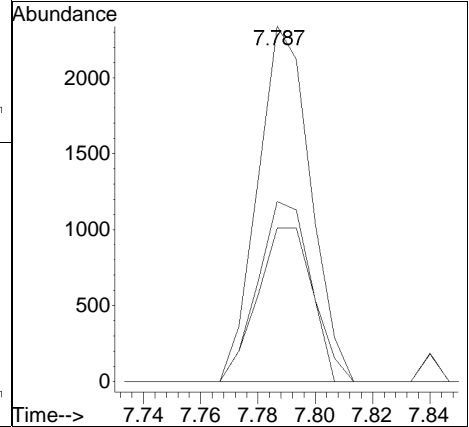
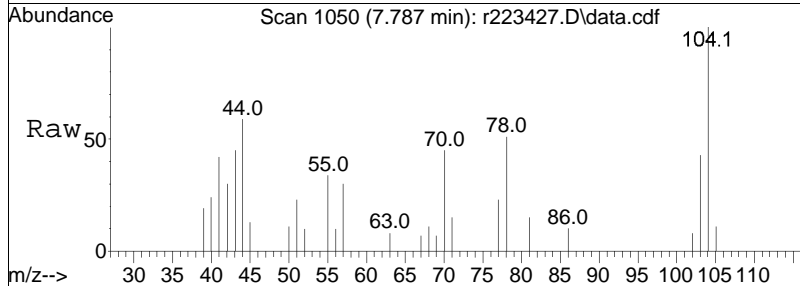
Tgt Ion: 91 Resp: 7076
 Ion Ratio Lower Upper
 91 100
 106 54.5 47.4 71.2





#85
 styrene
 Concen: 0.05 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223427.D
 Acq: 28 Mar 2024 9:12 PM

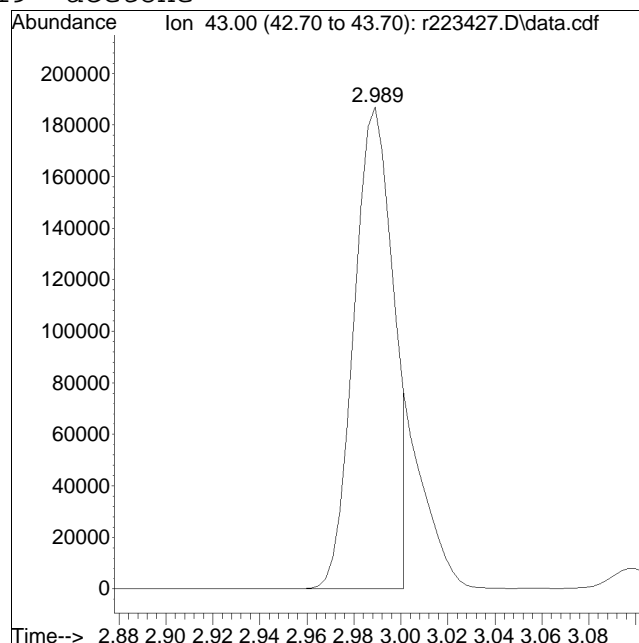
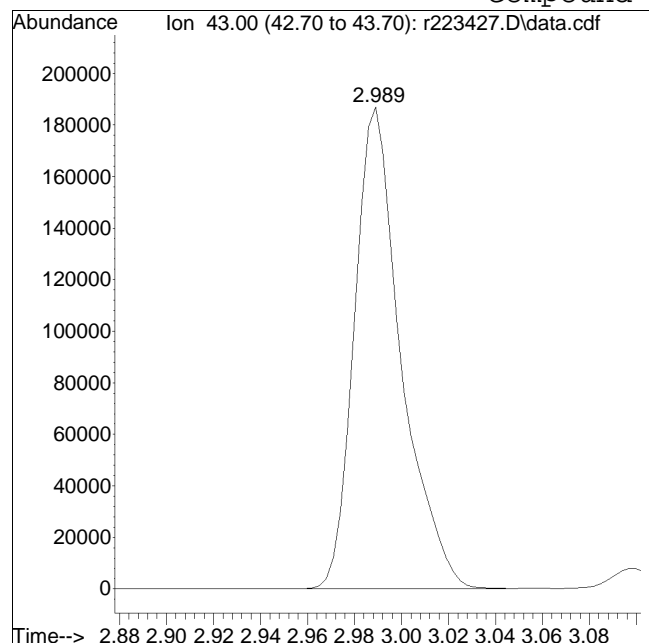
Tgt Ion	Resp	Lower	Upper
104	100		
103	43.2	34.3	51.5
78	50.6	32.3	48.5#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223427.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 2 Instrument :
Sample : L2414212-03,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #19: acetone



Original Peak Response = 258801

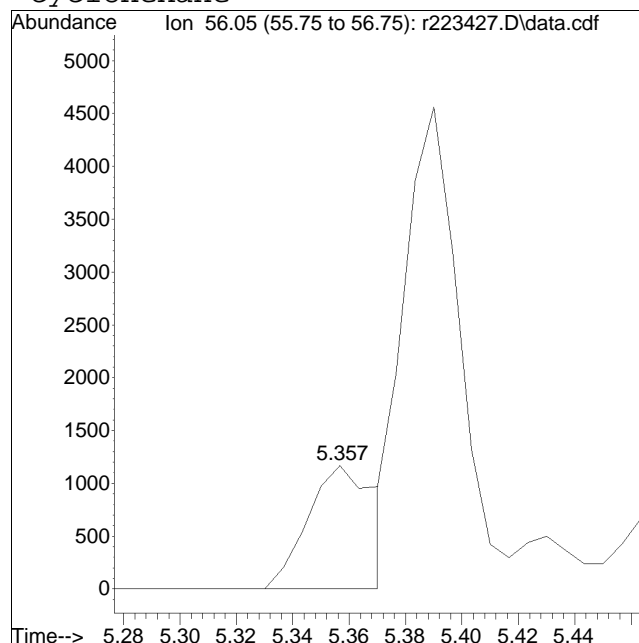
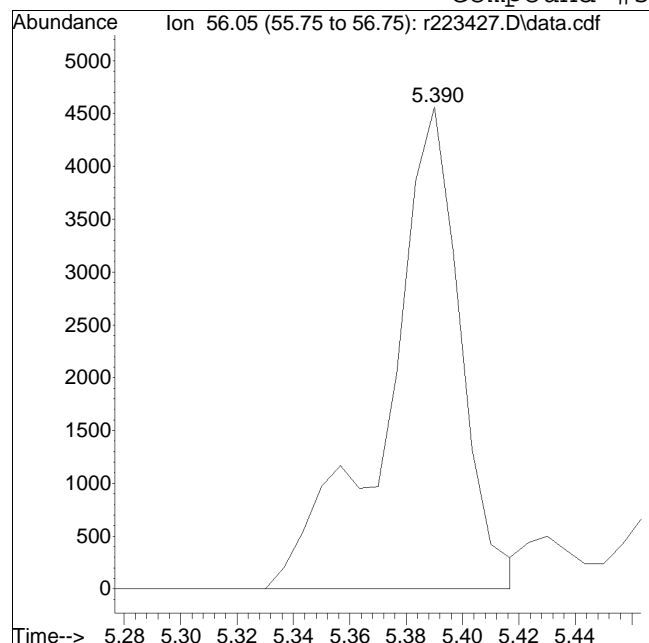
Manual Peak Response = 219258 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223427.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 2 Instrument :
Sample : L2414212-03,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #53: cyclohexane



Original Peak Response = 8208

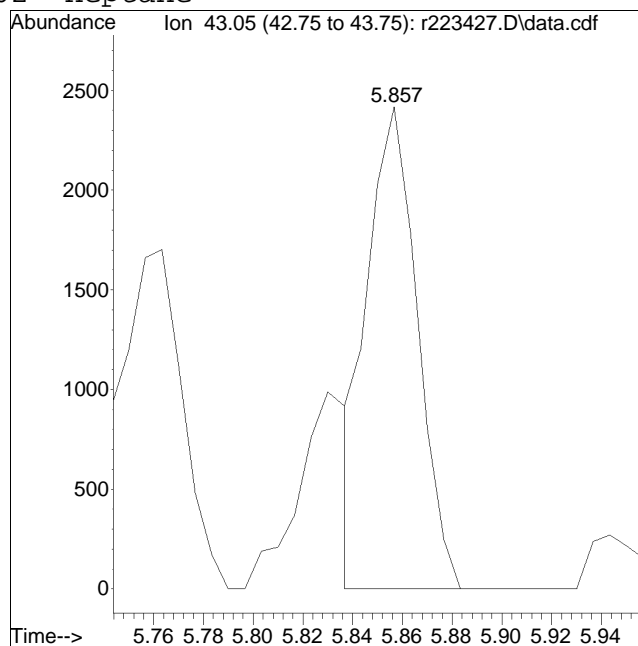
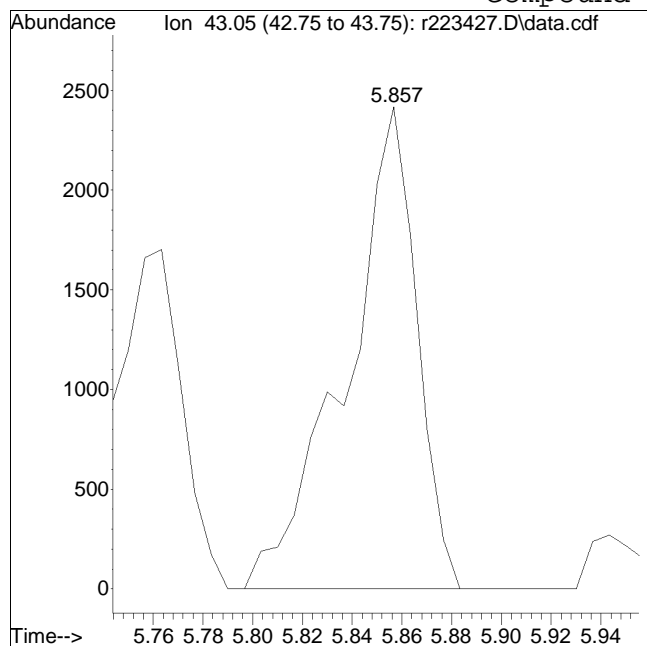
Manual Peak Response = 1923 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223427.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 2 Instrument :
Sample : L2414212-03,3,250,250 Quant Date : 3/29/2024 7:40 am

Compound #62: heptane



Original Peak Response = 4770

Manual Peak Response = 3395 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223428.D
 Acq On : 28 Mar 2024 9:43 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-04,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:41:02 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	198460	10.000	ppbV	0.01
Standard Area =	222450		Recovery =		89.22%	
43) 1,4-difluorobenzene	5.390	114	546314	10.000	ppbV	# 0.01
Standard Area =	633782		Recovery =		86.20%	
67) chlorobenzene-D5	7.353	54	81932	10.000	ppbV	# 0.00
Standard Area =	85965		Recovery =		95.31%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.220	85	9024	0.565	ppbV	100
6) chloromethane	2.325	50	5740	0.662	ppbV	99
7) Freon-114	2.385		0	N.D.		
10) 1,3-butadiene	2.525		0	N.D.		
13) bromomethane	2.645		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	449311	140.954	ppbV	95
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.986	43	216133M6	33.850	ppbV	
21) trichlorofluoromethane	3.073	101	2247	0.264	ppbV	99
22) isopropyl alcohol	3.097	45	69380	6.554	ppbV	100
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	3.430	49	2524	0.160	ppbV	96
29) 3-chloropropene	3.450		0	N.D.		
30) carbon disulfide	3.575		0	N.D.		
31) Freon 113	3.555	101	1688	0.071	ppbV	89
32) trans-1,2-dichloroethene	3.977		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	4.170	43	11816	0.367	ppbV	96
38) Ethyl Acetate	4.490	61	3536	0.705	ppbV	# 25
39) chloroform	4.523	83	1232	0.054	ppbV	# 92
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	4.483	57	3930	0.203	ppbV	# 1
50) benzene	5.223	78	9128	0.224	ppbV	# 93
53) cyclohexane	5.357	56	1654M6	0.075	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223428.D
 Acq On : 28 Mar 2024 9:43 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-04,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:41:02 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

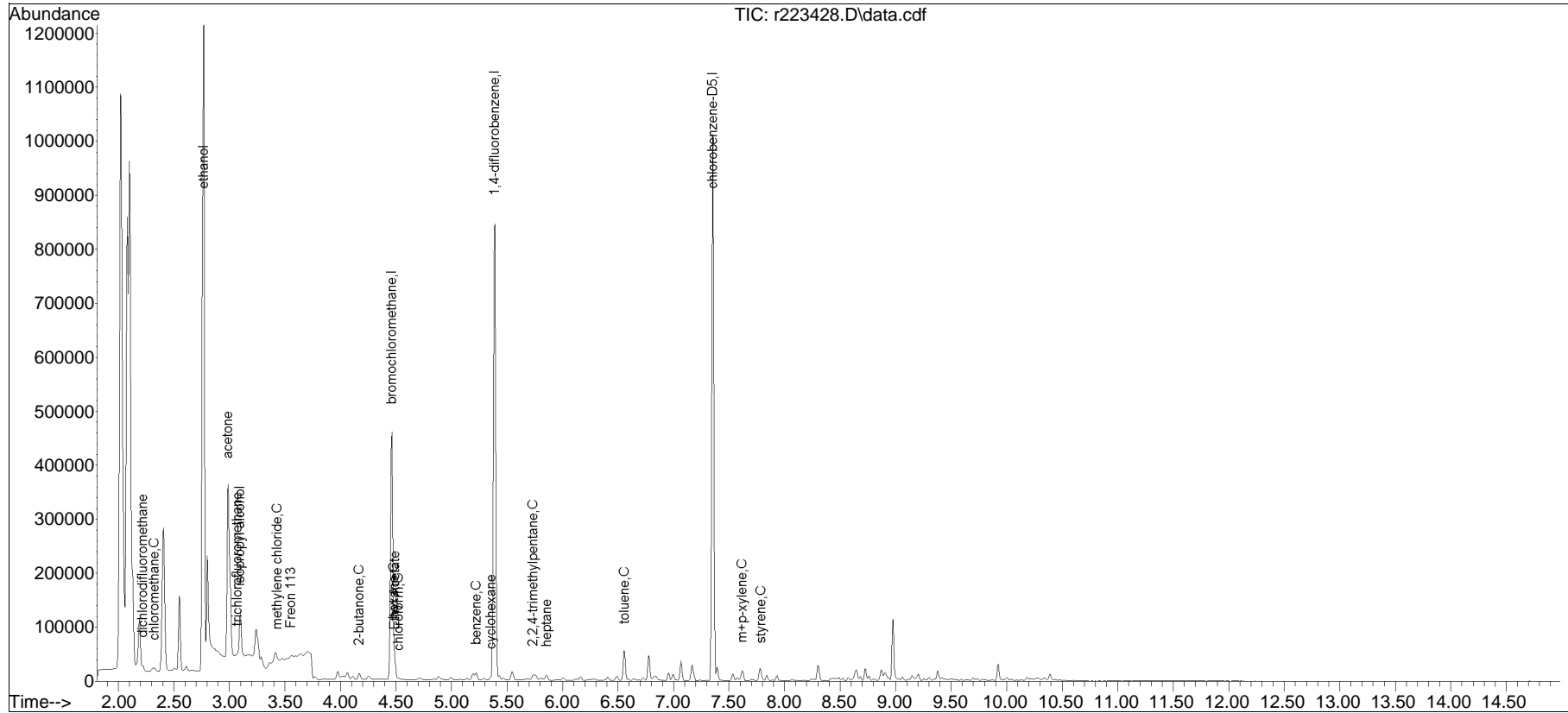
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	7930	0.129	ppbV #	80
62) heptane	5.857	43	3033M6	0.124	ppbV	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.133		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	24644	0.361	ppbV	100
72) 2-hexanone	6.640		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.380		0		N.D.	
81) ethylbenzene	7.540		0		N.D.	
83) m+p-xylene	7.620	91	8248	0.128	ppbV	90
84) bromoform	0.000		0		N.D.	
85) styrene	7.787	104	3200	0.055	ppbV #	90
86) 1,1,2,2-tetrachloroethane	7.860		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.413		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.797		0		N.D.	
102) 1,3-dichlorobenzene	8.803		0		N.D.	
103) 1,4-dichlorobenzene	8.803		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

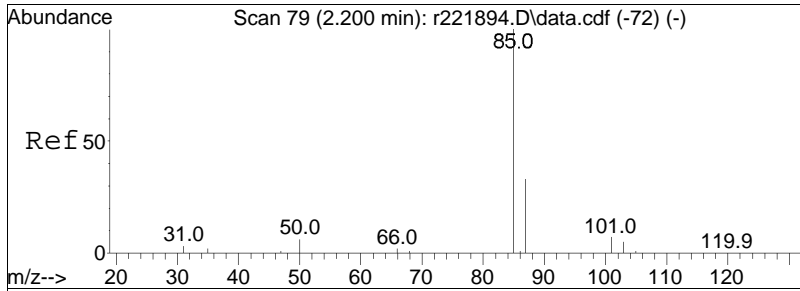
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223428.D
Acq On : 28 Mar 2024 9:43 PM
Operator : AIRLAB22:JMB
Sample : L2414212-04,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

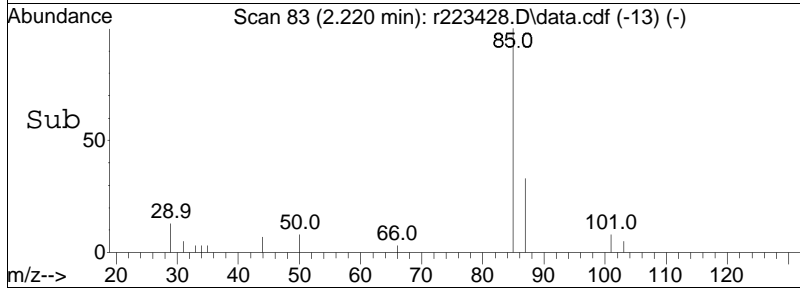
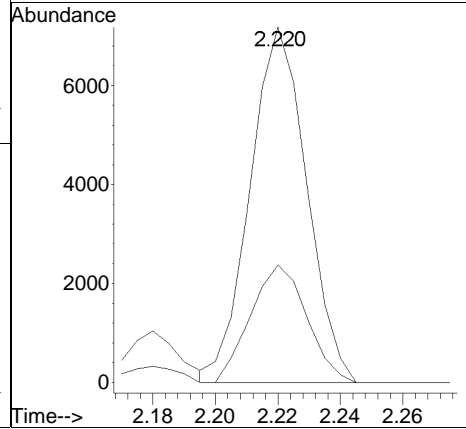
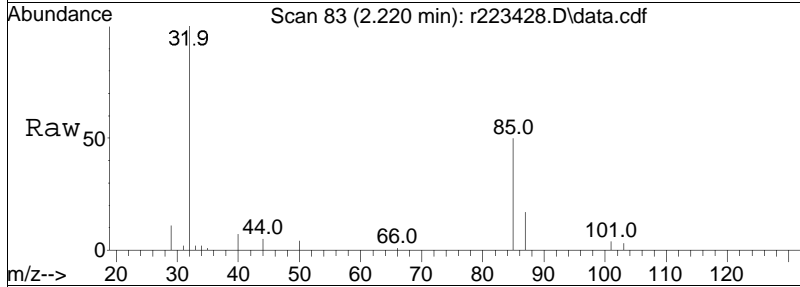
Quant Time: Mar 29 07:41:02 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

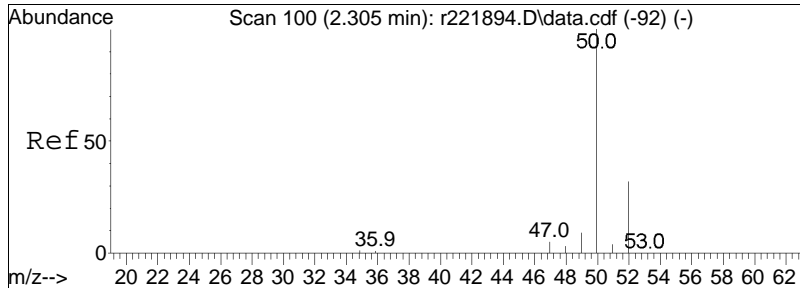




#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 2.220 min Scan# 83
Delta R.T. 0.020 min
Lab File: r223428.D
Acq: 28 Mar 2024 9:43 PM

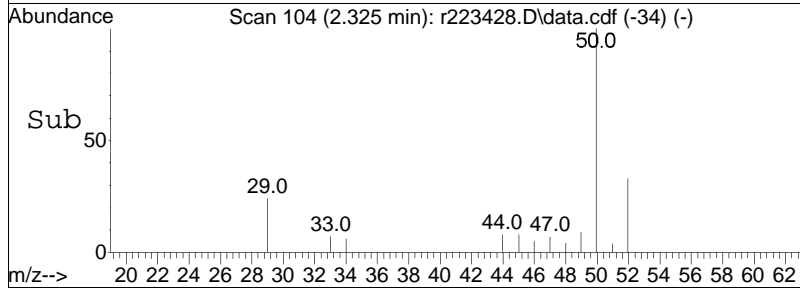
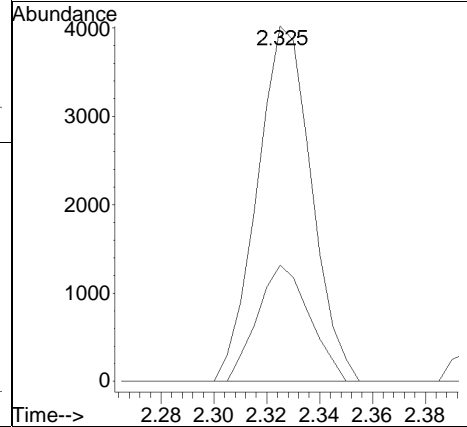
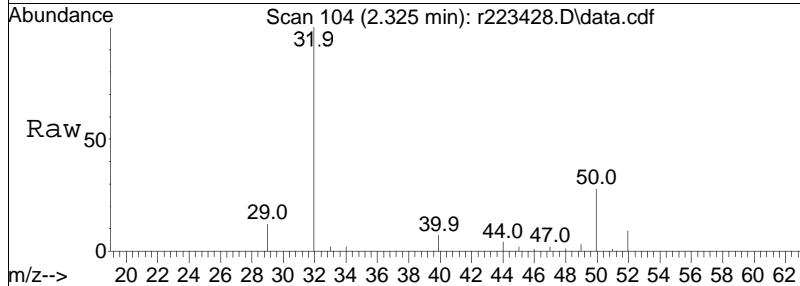
Tgt Ion: 85 Resp: 9024
Ion Ratio Lower Upper
85 100
87 33.0 26.3 39.5

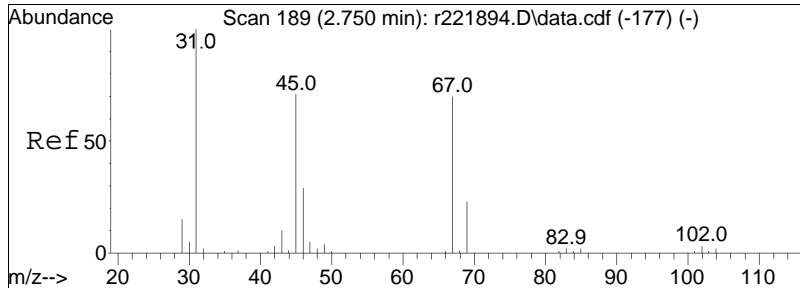




#6
 chloromethane
 Concen: 0.66 ppbV
 RT: 2.325 min Scan# 104
 Delta R.T. 0.020 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

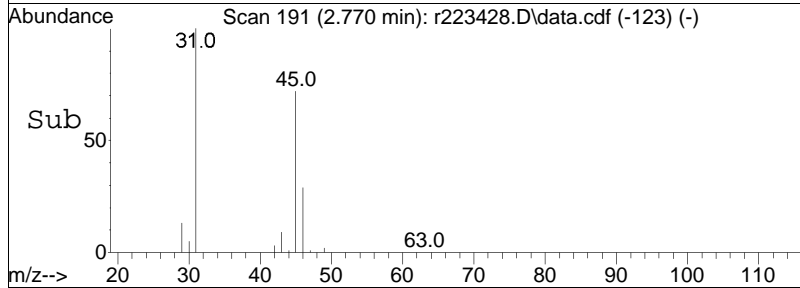
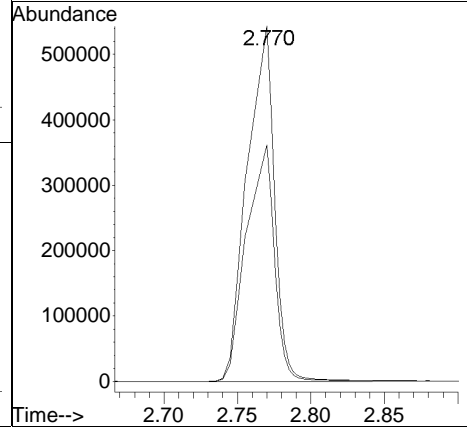
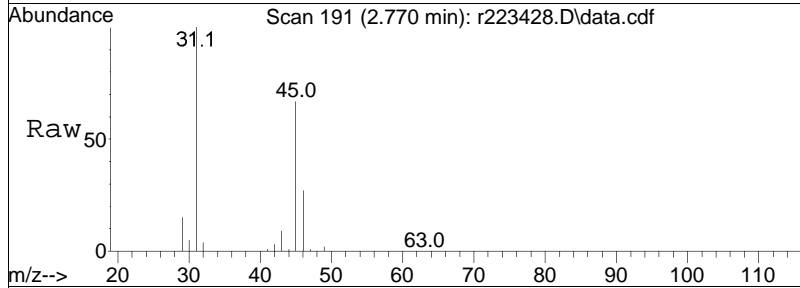
Tgt Ion	Resp	Lower	Upper
50	5740		
52	32.7	25.5	38.3

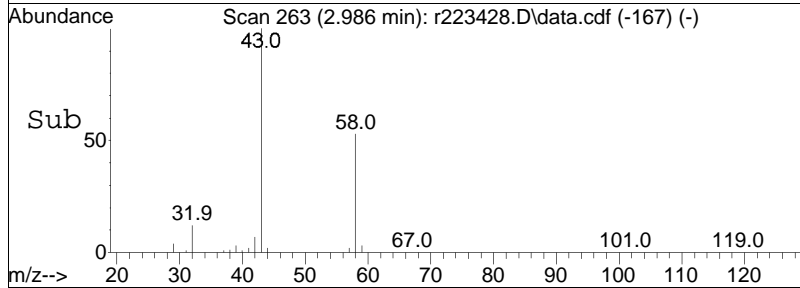
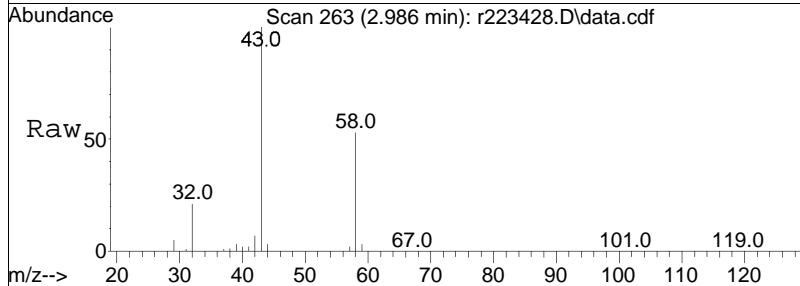
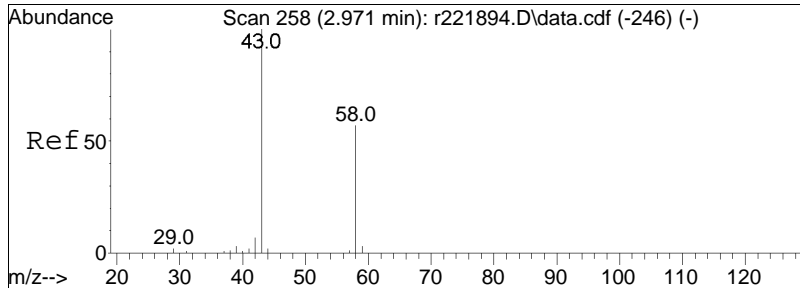




#15
 ethanol
 Concen: 140.95 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

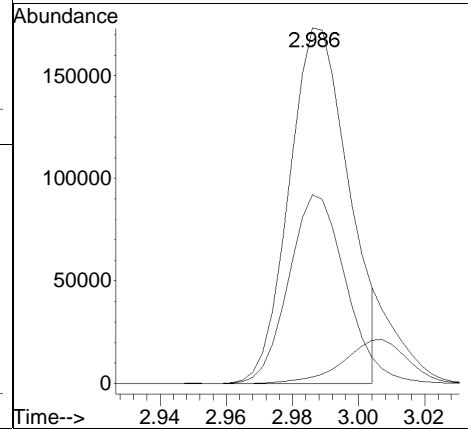
Tgt Ion	Resp	Lower	Upper
31	100		
45	66.6	56.6	84.8

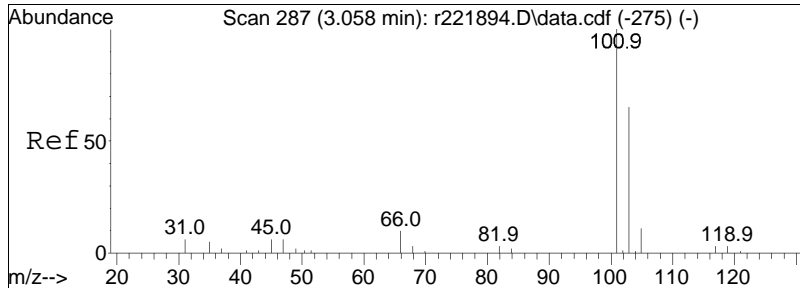




#19
 acetone
 Concen: 33.85 ppbV m
 RT: 2.986 min Scan# 263
 Delta R.T. 0.015 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

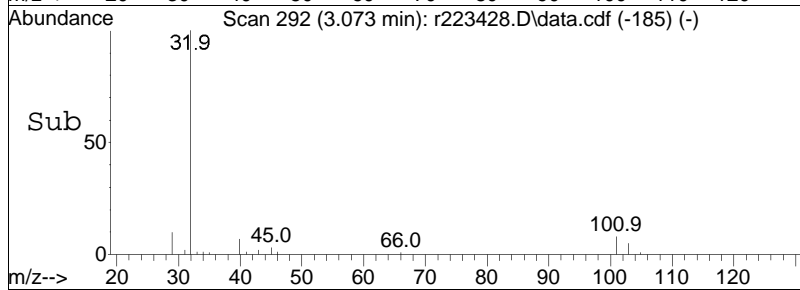
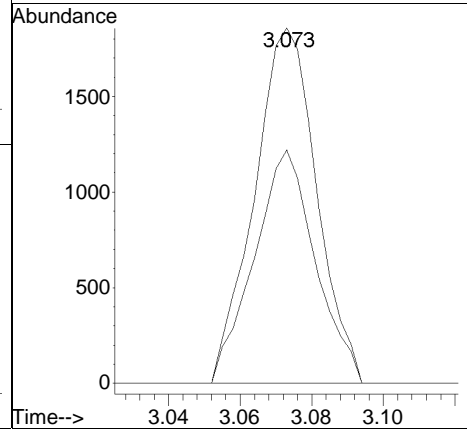
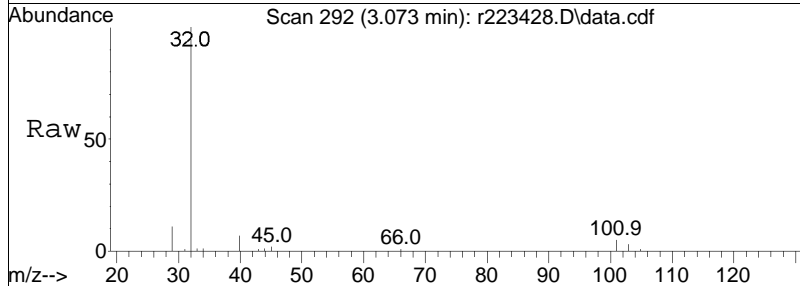
Tgt Ion:	43	Resp:	216133
Ion Ratio	Lower	Upper	
43	100		
58	53.1	45.5	68.3
57	1.8	1.0	1.6#

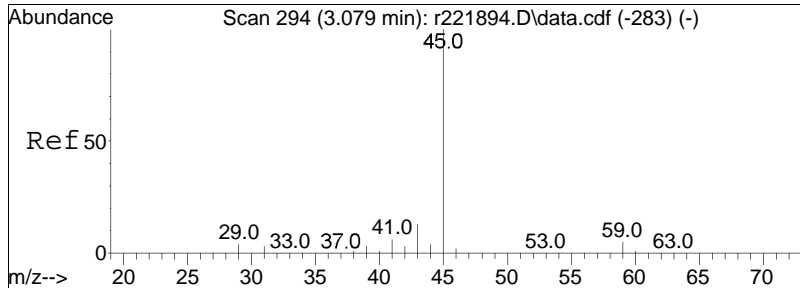




#21
 trichlorofluoromethane
 Concen: 0.26 ppbV
 RT: 3.073 min Scan# 292
 Delta R.T. 0.015 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

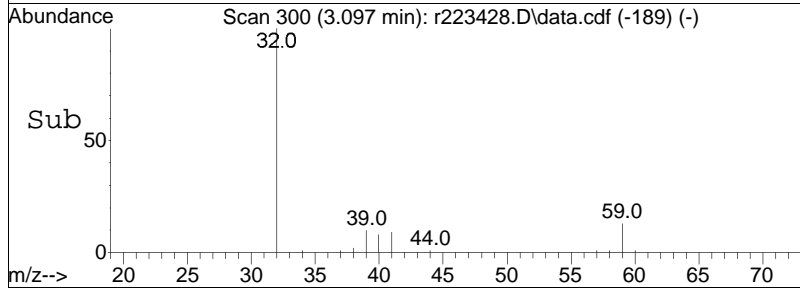
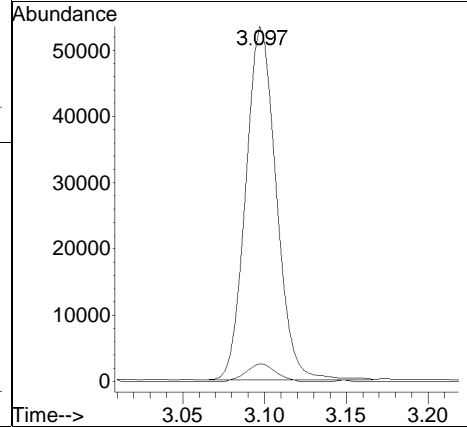
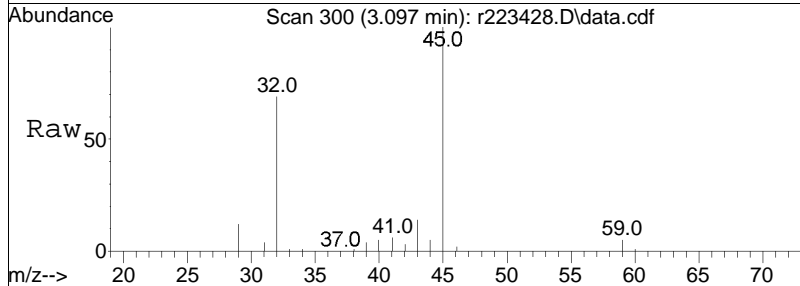
Tgt Ion	Ratio	Lower	Upper
101	100		
103	65.7	52.2	78.4

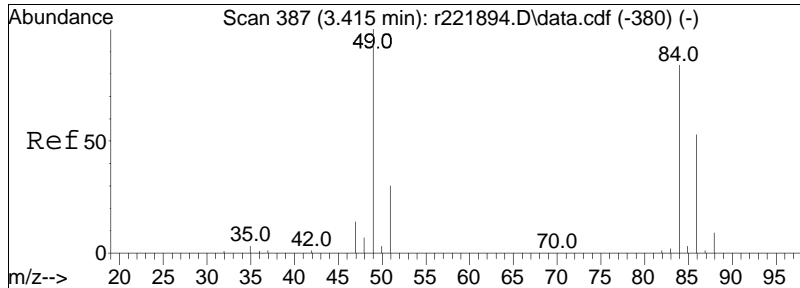




#22
 isopropyl alcohol
 Concen: 6.55 ppbV
 RT: 3.097 min Scan# 300
 Delta R.T. 0.018 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

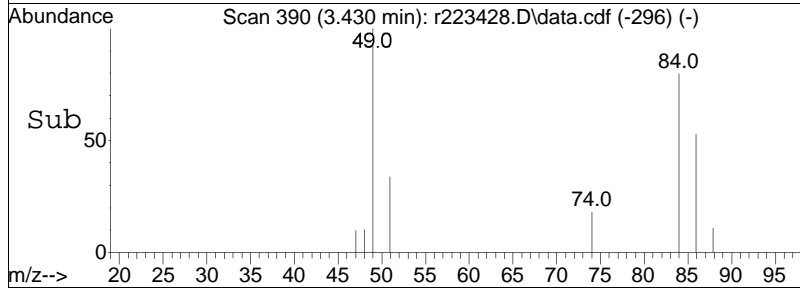
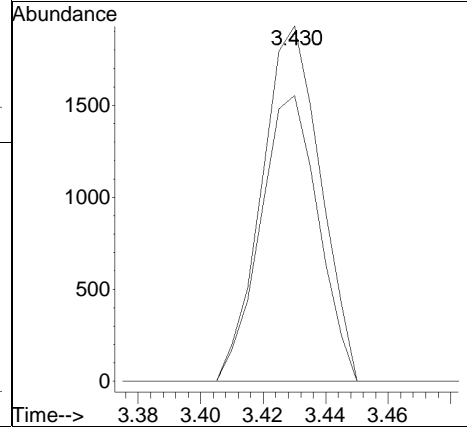
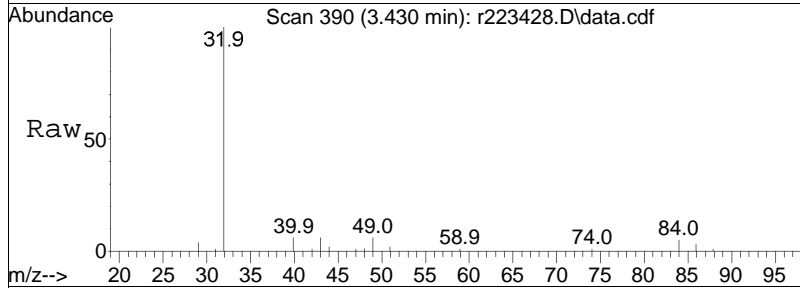
Tgt Ion:	45	Resp:	69380
Ion Ratio	Lower	Upper	
45	100		
59	5.0	4.0	6.0

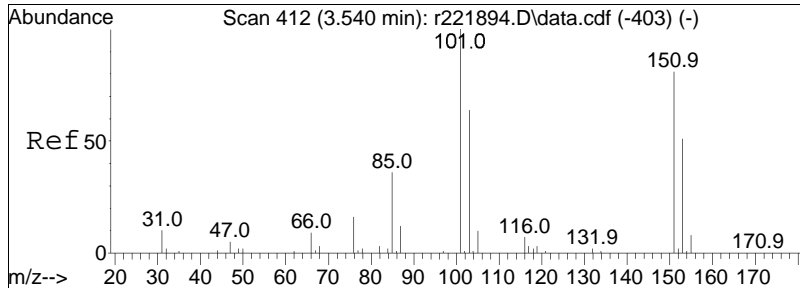




#28
 methylene chloride
 Concen: 0.16 ppbV
 RT: 3.430 min Scan# 390
 Delta R.T. 0.015 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

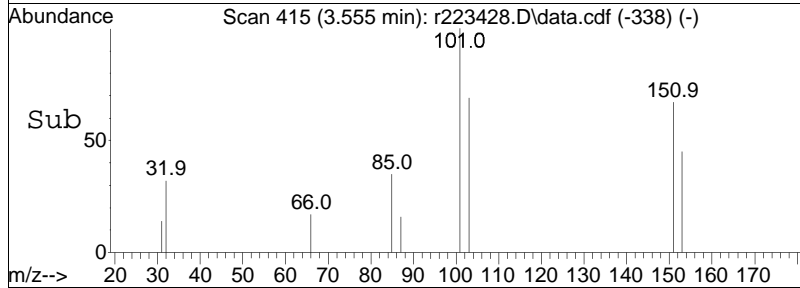
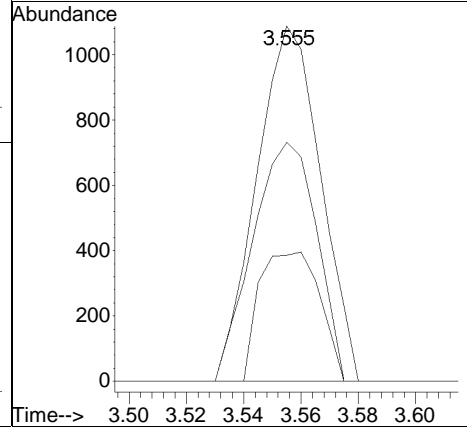
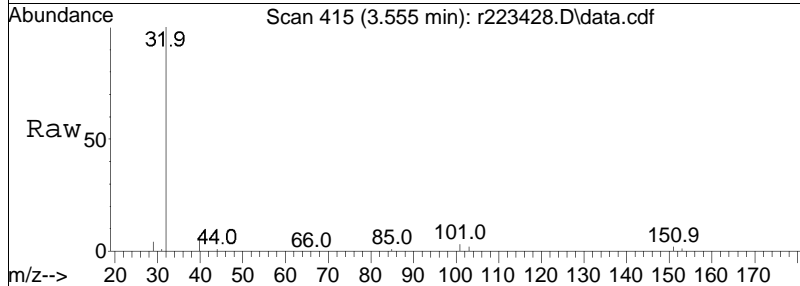
Tgt Ion:	Resp:	Lower	Upper
49	100		
84	80.5	67.2	100.8

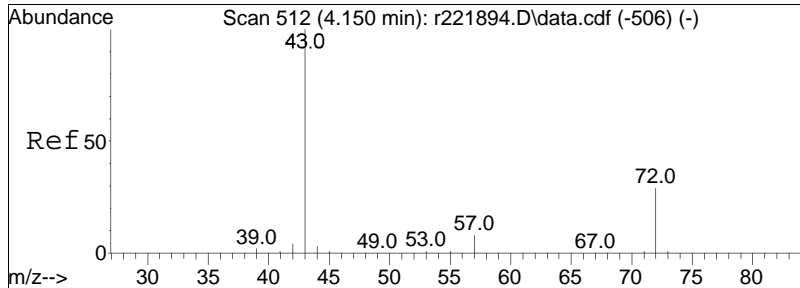




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

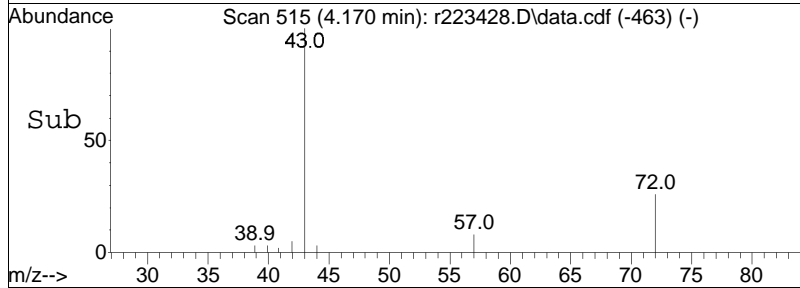
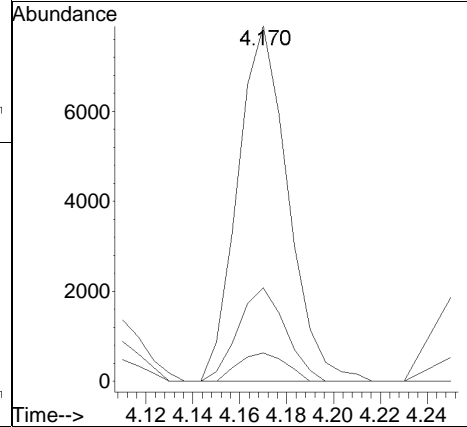
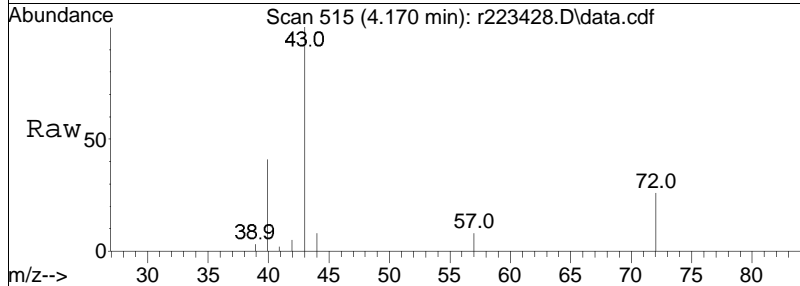
Tgt Ion	Ratio	Lower	Upper
101	100		
85	35.5	28.6	43.0
151	67.3	64.6	97.0

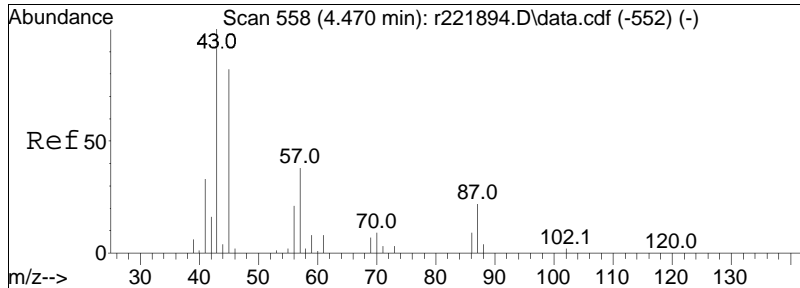




#36
 2-butanone
 Concen: 0.37 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

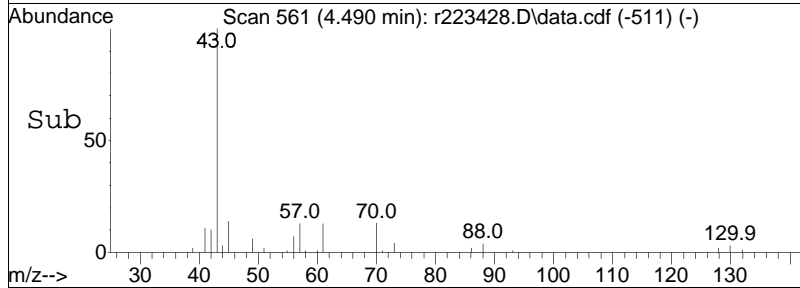
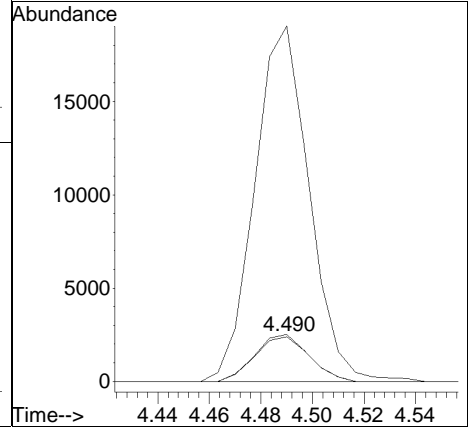
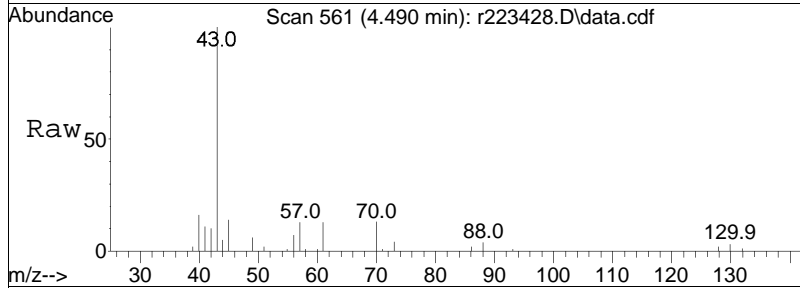
Tgt Ion:	43	Resp:	11816
Ion Ratio	Lower	Upper	
43	100		
72	26.3	23.0	34.6
57	8.0	6.3	9.5

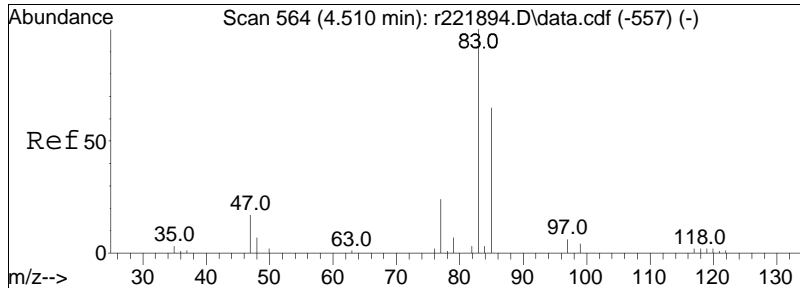




#38
 Ethyl Acetate
 Concen: 0.71 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

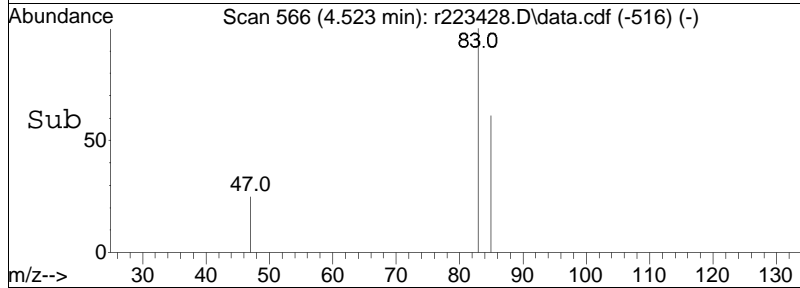
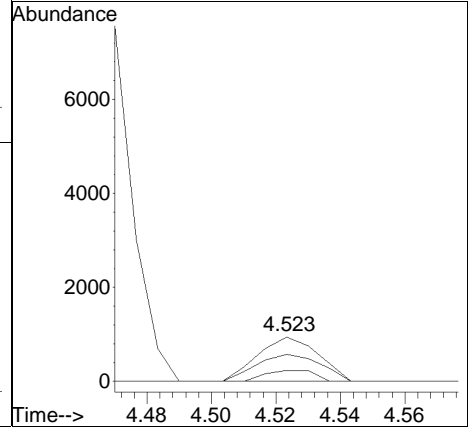
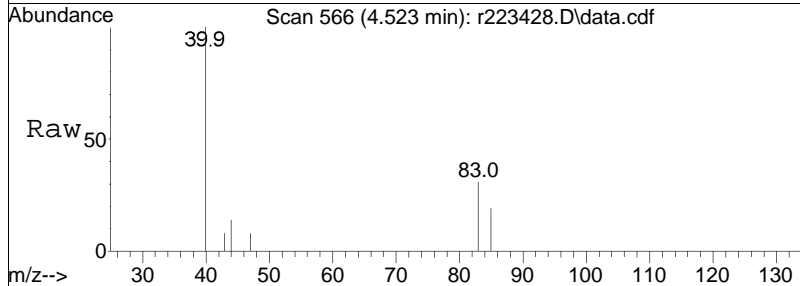
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
70	105.2	91.7	137.5
43	795.5	971.0	1456.6#

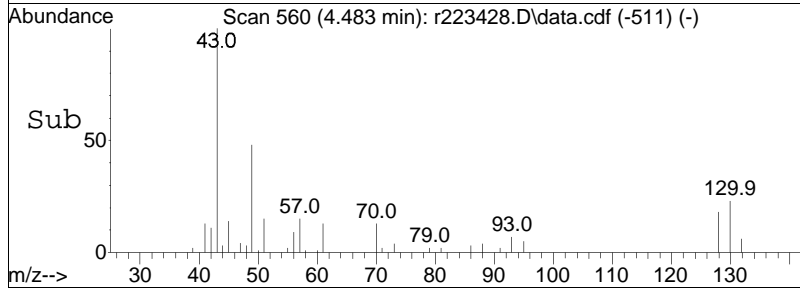
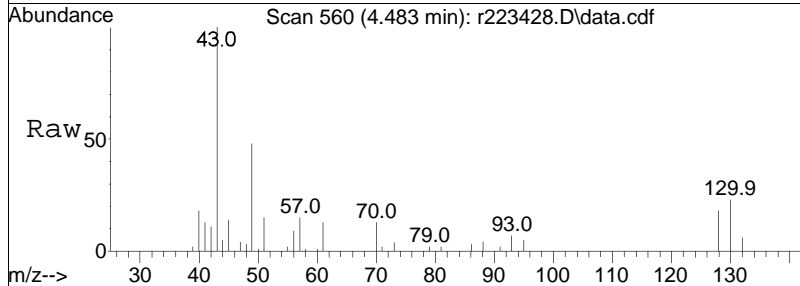
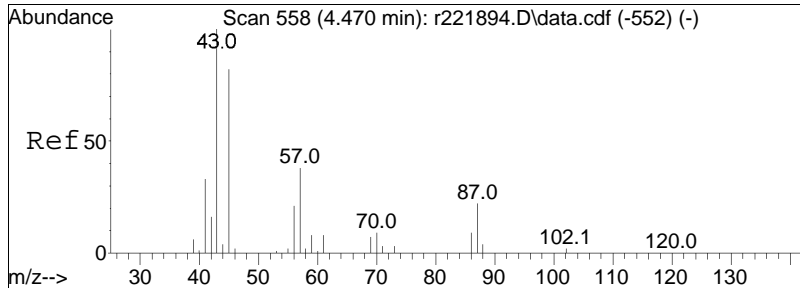




#39
 chloroform
 Concen: 0.05 ppbV
 RT: 4.523 min Scan# 566
 Delta R.T. 0.013 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

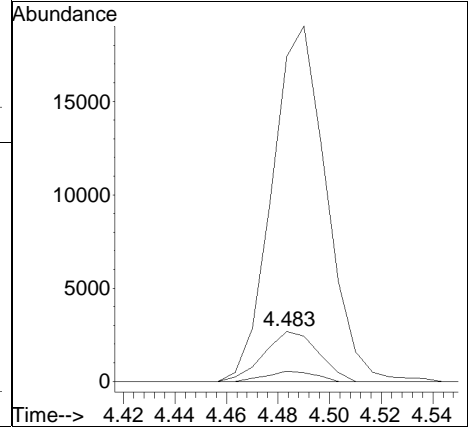
Tgt Ion:	83	Resp:	1232
Ion Ratio	100	Lower	Upper
83	100		
85	61.0	52.6	79.0
47	24.8	15.1	22.7#

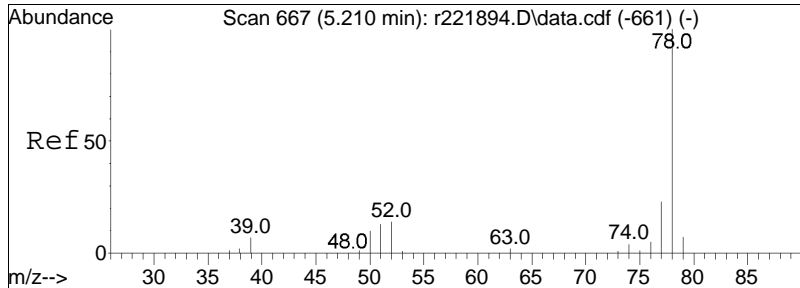




#44
 hexane
 Concen: 0.20 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

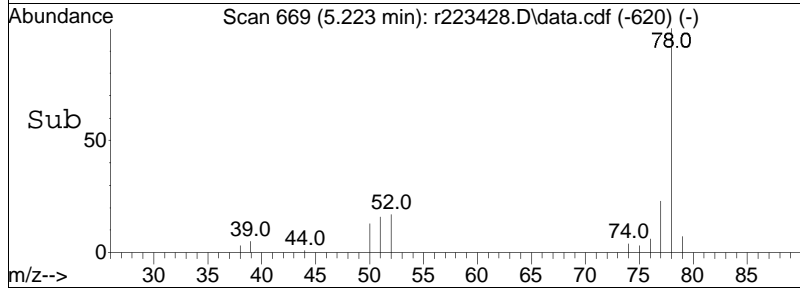
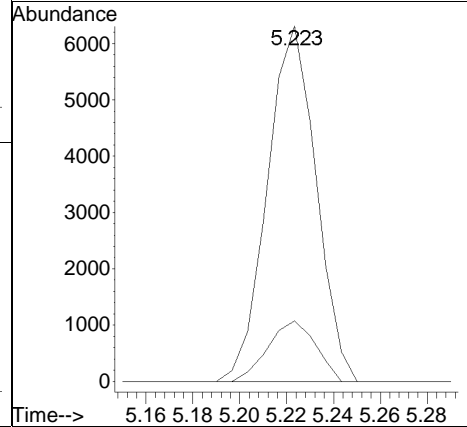
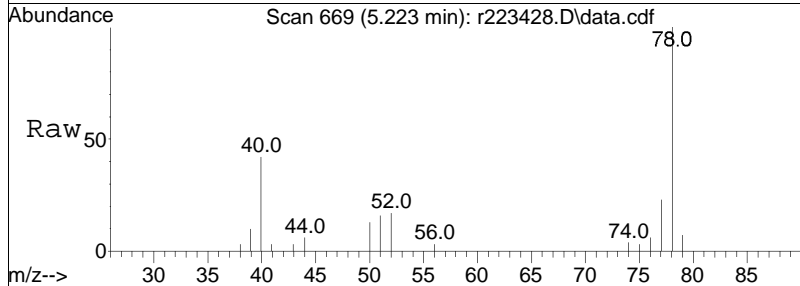
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	651.3	210.8	316.2#
86	20.7	17.9	26.9

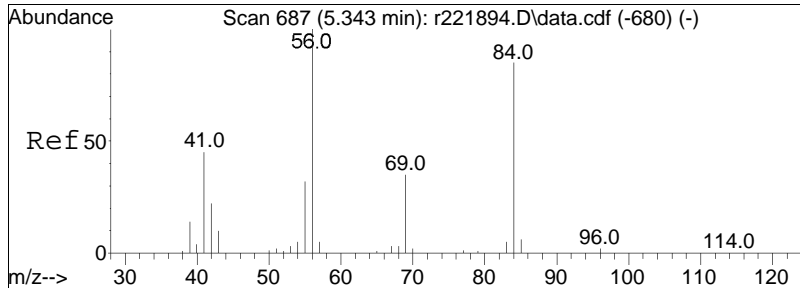




#50
benzene
Concen: 0.22 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223428.D
Acq: 28 Mar 2024 9:43 PM

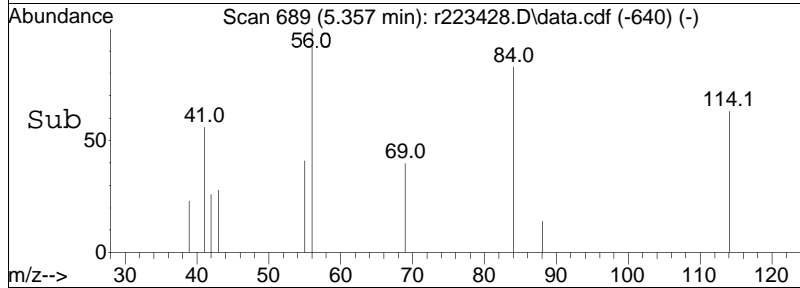
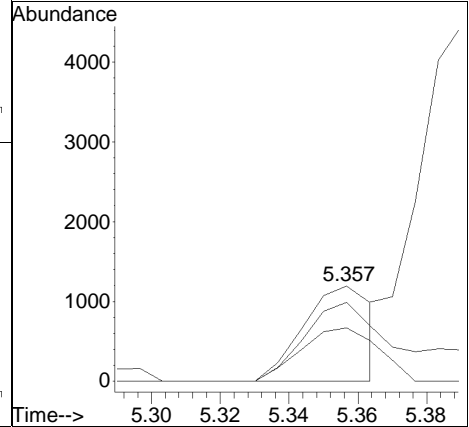
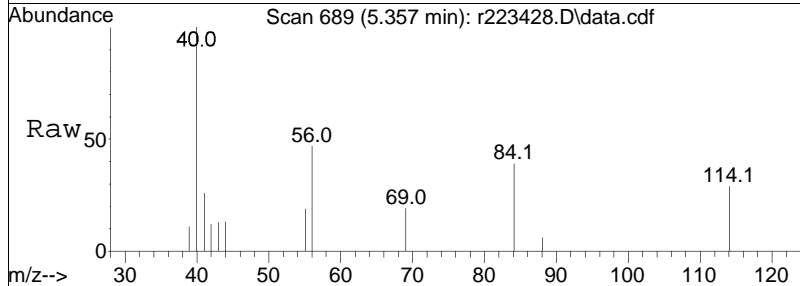
Tgt Ion	Resp	Lower	Upper
78	100		
52	17.0	11.3	16.9#

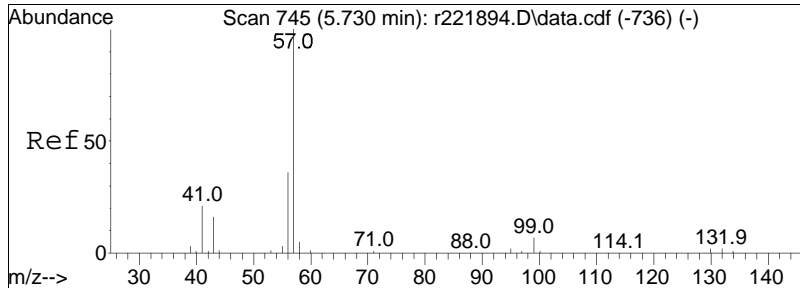




#53
 cyclohexane
 Concen: 0.07 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

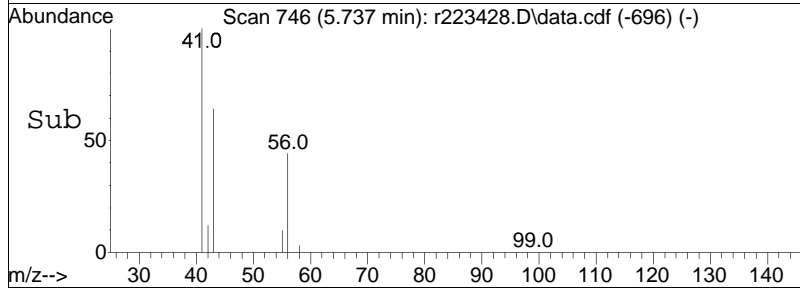
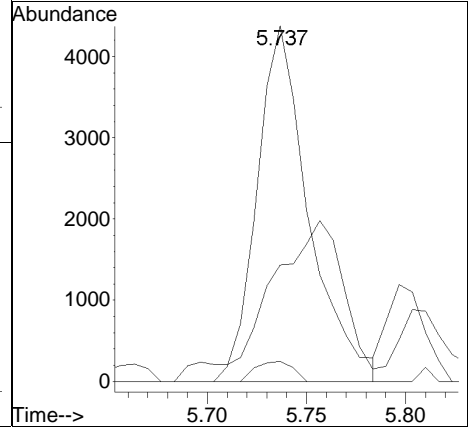
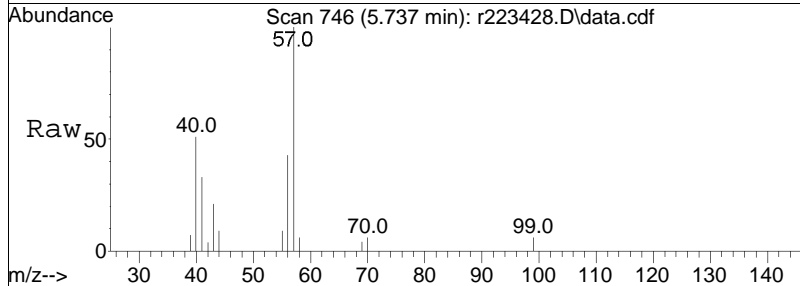
Tgt Ion:	Resp:	Lower	Upper
56	100		
84	82.9	70.9	106.3
41	56.1	35.8	53.6#

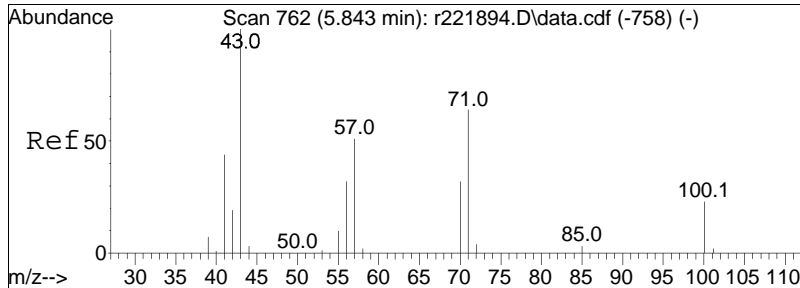




#60
 2,2,4-trimethylpentane
 Concen: 0.13 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

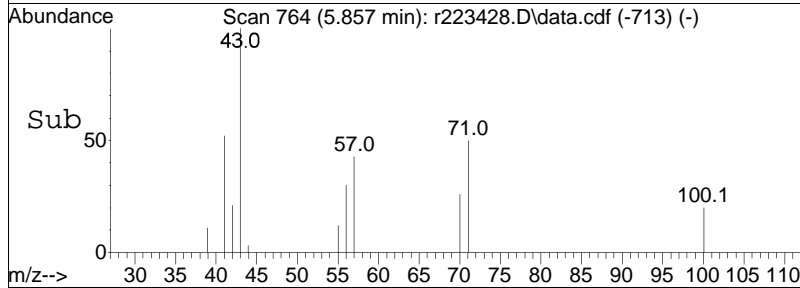
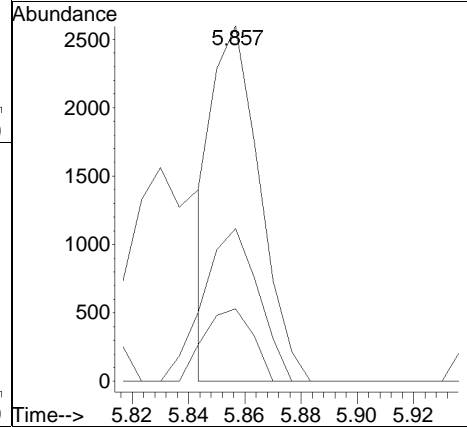
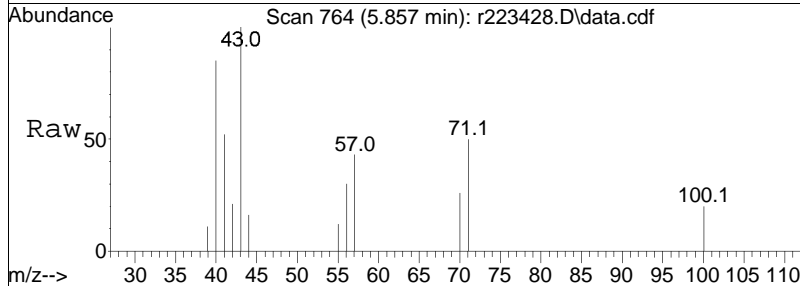
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
99	5.6	5.7	8.5#
41	32.8	16.9	25.3#

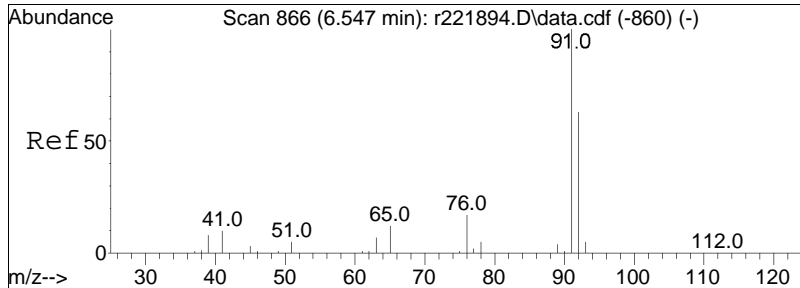




#62
 heptane
 Concen: 0.12 ppbV m
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

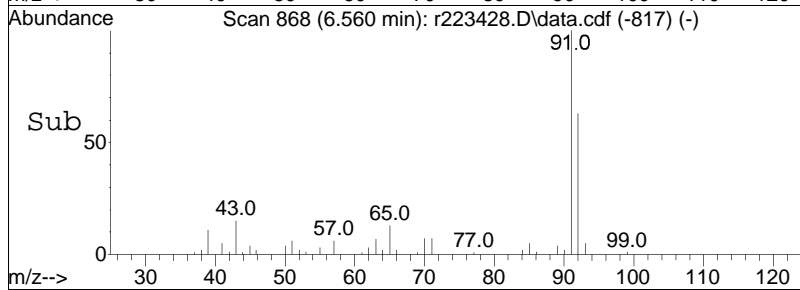
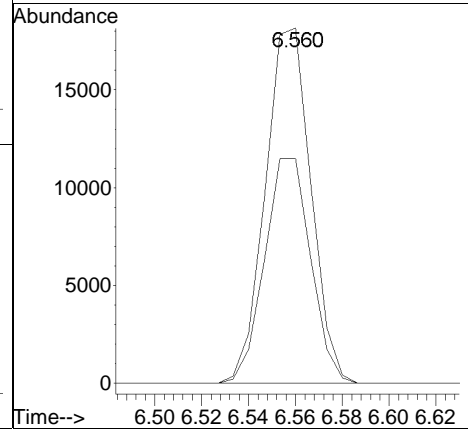
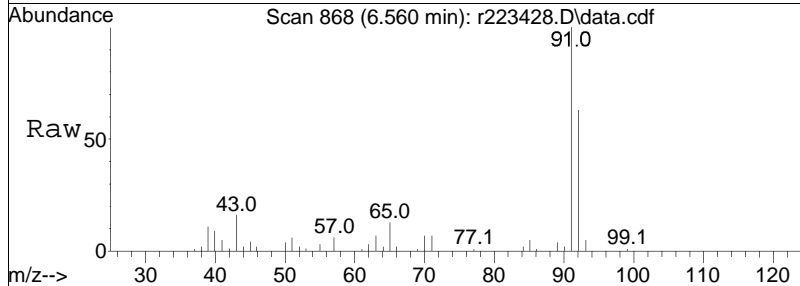
Tgt Ion:	43	Resp:	3033
Ion Ratio	Lower	Upper	
43	100		
57	43.0	40.4	60.6
100	20.4	19.0	28.6

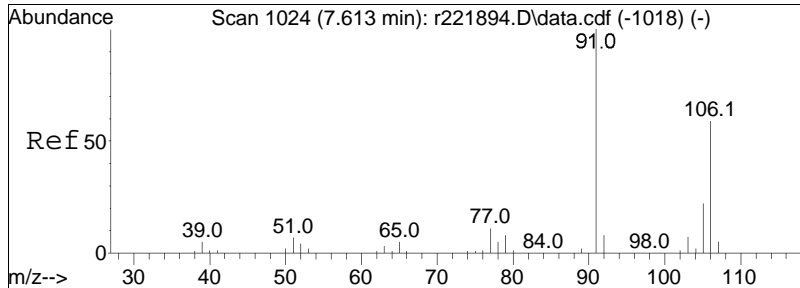




#68
 toluene
 Concen: 0.36 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

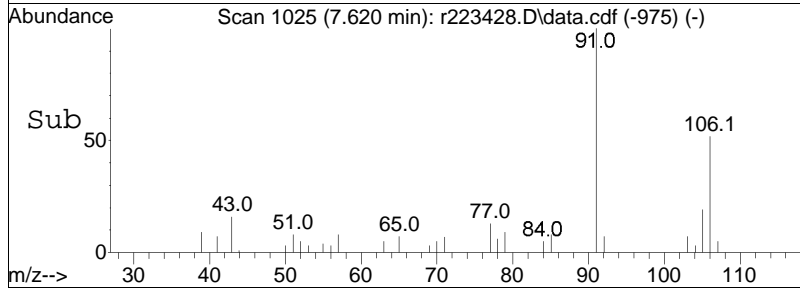
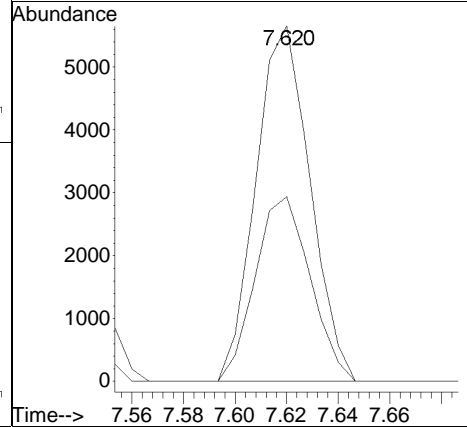
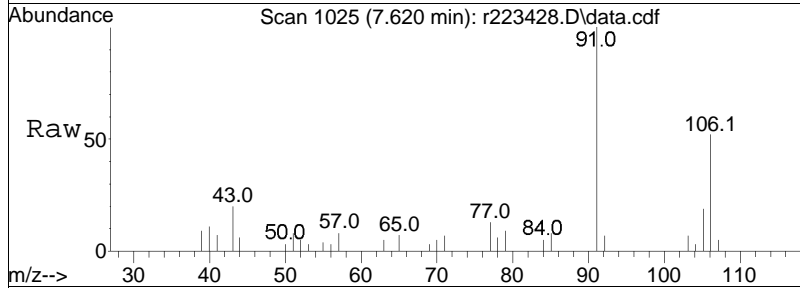
Tgt Ion:	91	Resp:	24644
Ion Ratio	Lower	Upper	
91	100		
92	63.3	50.7	76.1

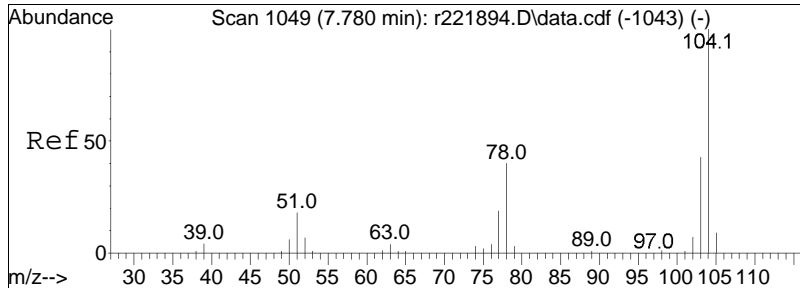




#83
 m+p-xylene
 Concen: 0.13 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

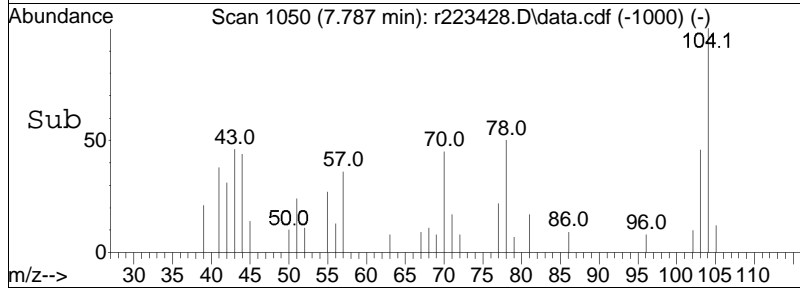
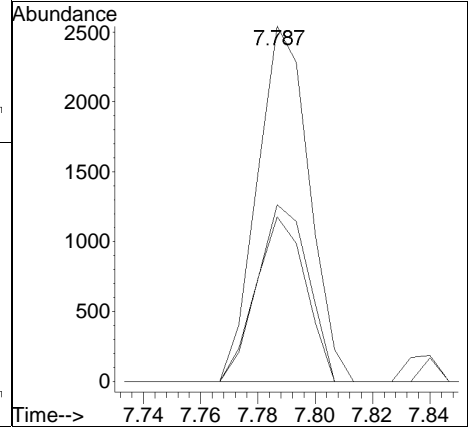
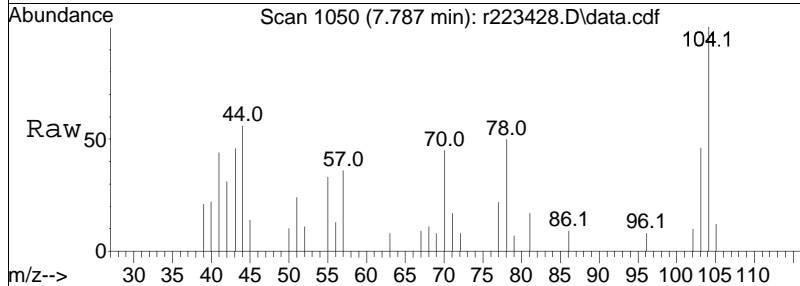
Tgt Ion: 91 Resp: 8248
 Ion Ratio Lower Upper
 91 100
 106 52.0 47.4 71.2





#85
 styrene
 Concen: 0.06 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223428.D
 Acq: 28 Mar 2024 9:43 PM

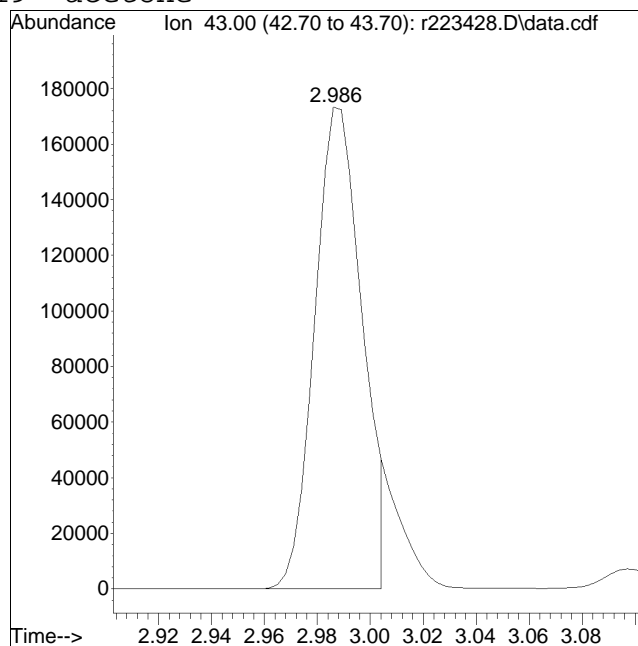
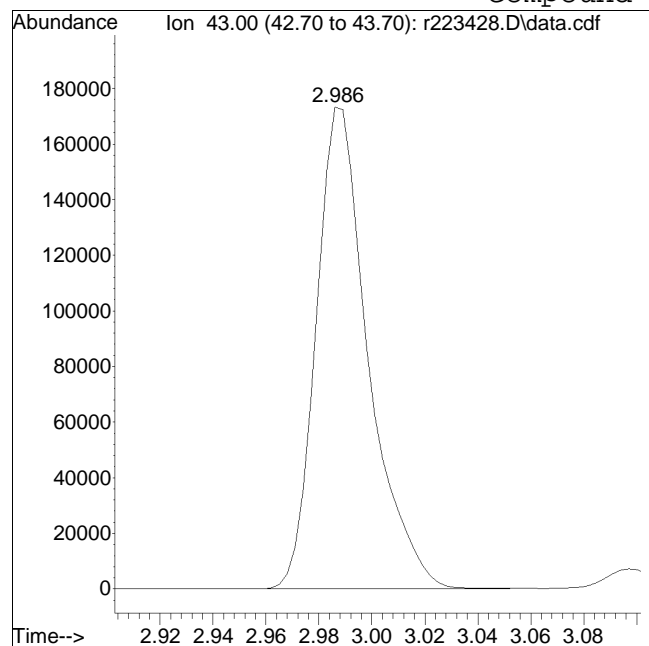
Tgt Ion	Ratio	Lower	Upper
104	100		
103	46.3	34.3	51.5
78	49.7	32.3	48.5#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223428.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 3 Instrument :
Sample : L2414212-04,3,250,250 Quant Date : 3/29/2024 7:41 am

Compound #19: acetone



Original Peak Response = 237468

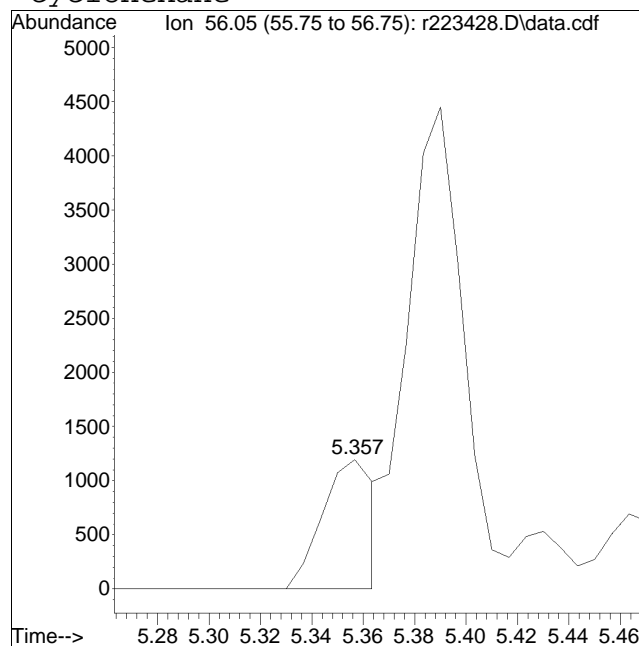
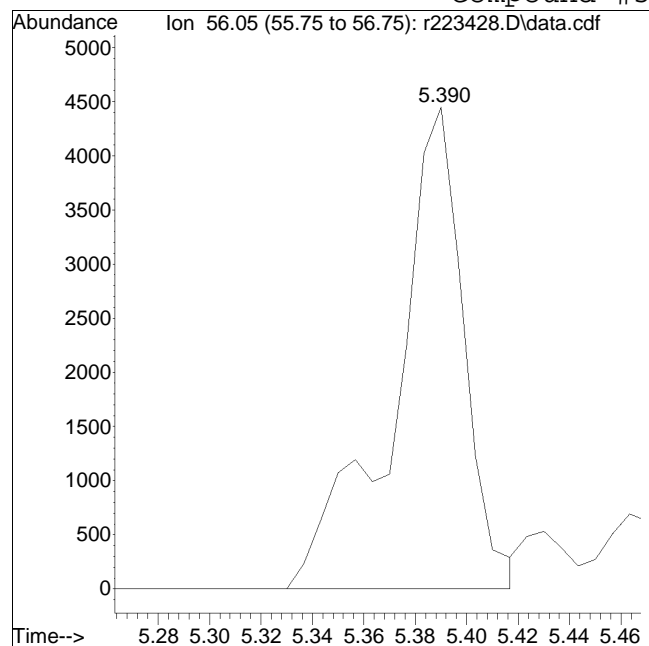
Manual Peak Response = 216133 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223428.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 3 Instrument :
Sample : L2414212-04,3,250,250 Quant Date : 3/29/2024 7:41 am

Compound #53: cyclohexane



Original Peak Response = 8339

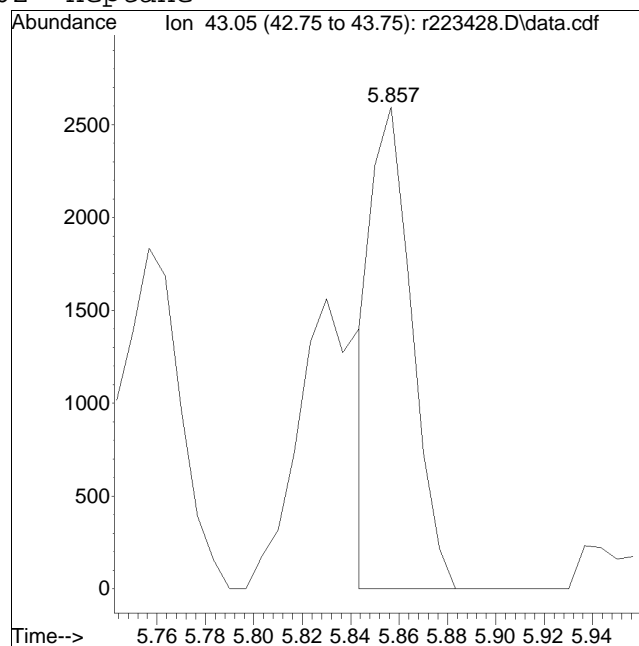
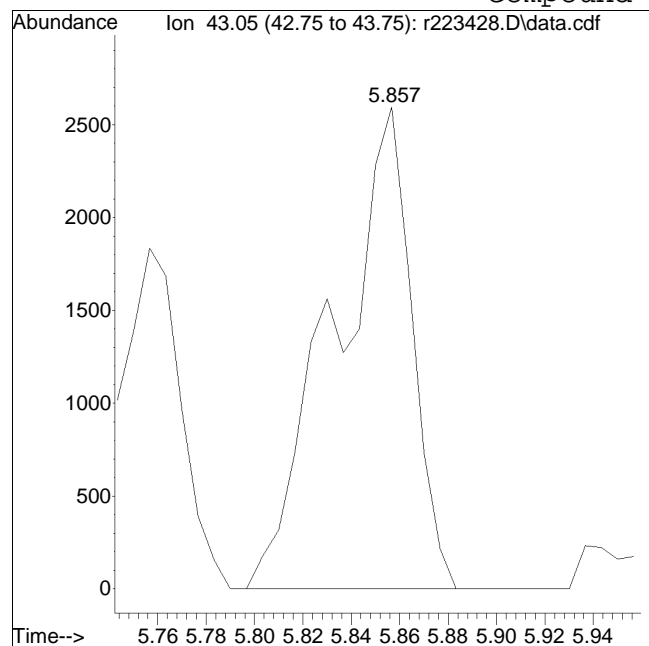
Manual Peak Response = 1654 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223428.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 3 Instrument :
Sample : L2414212-04,3,250,250 Quant Date : 3/29/2024 7:41 am

Compound #62: heptane



Original Peak Response = 5751

Manual Peak Response = 3033 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223429.D
 Acq On : 28 Mar 2024 10:15 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-05,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:41:22 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	212324	10.000	ppbV	0.01
Standard Area = 222450			Recovery = 95.45%			
43) 1,4-difluorobenzene	5.390	114	635920	10.000	ppbV	0.01
Standard Area = 633782			Recovery = 100.34%			
67) chlorobenzene-D5	7.353	54	93761	10.000	ppbV #	0.00
Standard Area = 85965			Recovery = 109.07%			

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.215	85	8461	0.495	ppbV	99
6) chloromethane	2.320	50	6736	0.726	ppbV	98
7) Freon-114	2.375		0	N.D.		
10) 1,3-butadiene	2.520		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.809	31	7912922	2320.284	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	3.031	43	37541421	5495.687	ppbV #	55
21) trichlorofluoromethane	0.000		0	N.D.	d	
22) isopropyl alcohol	3.121	45	11583591	1022.781	ppbV	98
27) tertiary butyl alcohol	3.390	59	60148	2.358	ppbV #	86
28) methylene chloride	3.435	49	4684	0.278	ppbV	90
29) 3-chloropropene	3.445		0	N.D.		
30) carbon disulfide	3.570	76	5429	0.116	ppbV #	46
31) Freon 113	3.555	101	1956	0.076	ppbV	90
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.970		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
38) Ethyl Acetate	4.483	61	1725718	321.721	ppbV #	1
39) chloroform	4.530	83	32262	1.325	ppbV	98
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	4.483	57	3820	0.170	ppbV #	1
50) benzene	5.223	78	14106	0.297	ppbV	96
53) cyclohexane	5.357	56	2189M4	0.085	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223429.D
 Acq On : 28 Mar 2024 10:15 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-05,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:41:22 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

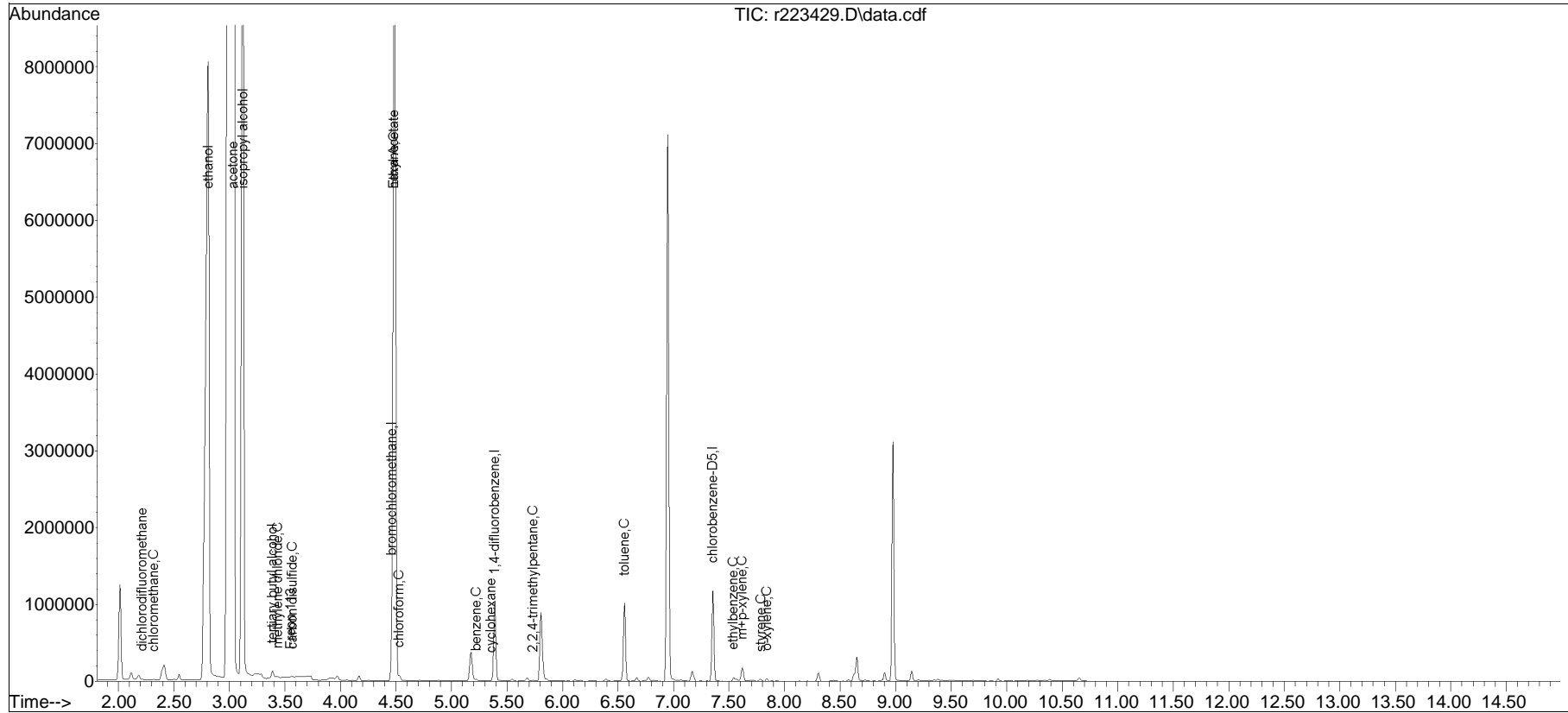
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.	d	
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	5.737	57	6926	0.097	ppbV #	83
62) heptane	0.000		0	N.D.	d	
63) cis-1,3-dichloropropene	6.113		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.	d	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	6.560	91	558247	7.138	ppbV	100
72) 2-hexanone	0.000		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	7.380		0	N.D.		
81) ethylbenzene	7.540	91	24732	0.261	ppbV	96
83) m+p-xylene	7.620	91	88563	1.202	ppbV	92
84) bromoform	0.000		0	N.D.		
85) styrene	7.787	104	4826	0.073	ppbV	94
86) 1,1,2,2-tetrachloroethane	7.720		0	N.D.		
87) o-xylene	7.840	91	15209	0.211	ppbV	93
96) 4-ethyl toluene	8.413		0	N.D.		
97) 1,3,5-trimethylbenzene	8.473		0	N.D.		
99) 1,2,4-trimethylbenzene	8.683		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	8.797		0	N.D.		
103) 1,4-dichlorobenzene	8.797		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
116) naphthalene	9.925		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

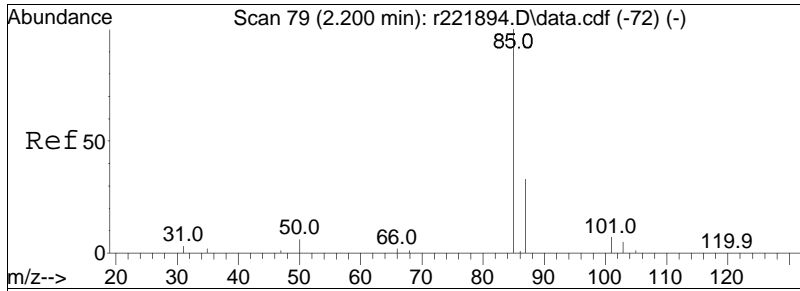
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223429.D
Acq On : 28 Mar 2024 10:15 PM
Operator : AIRLAB22:JMB
Sample : L2414212-05,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

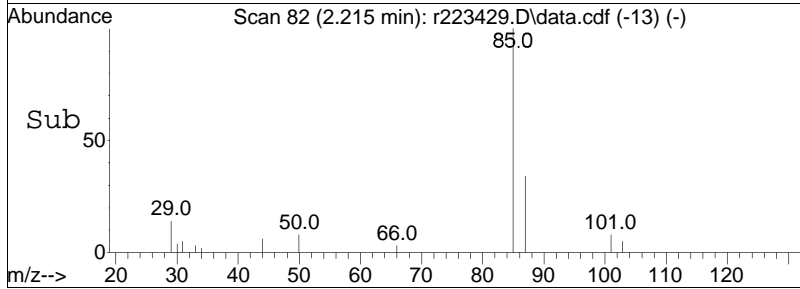
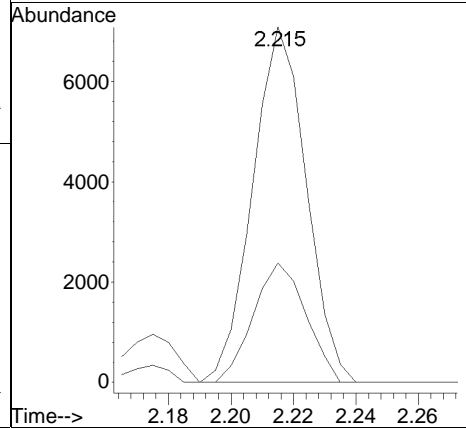
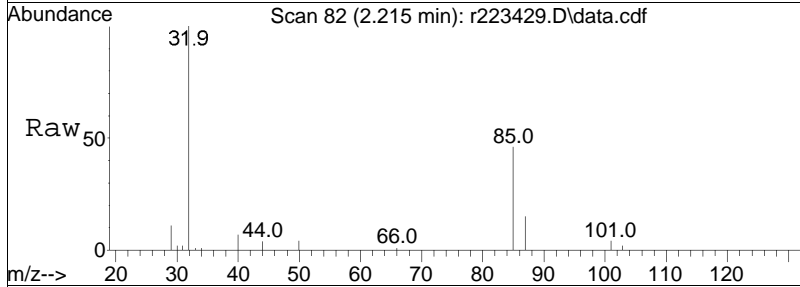
Quant Time: Mar 29 07:41:22 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

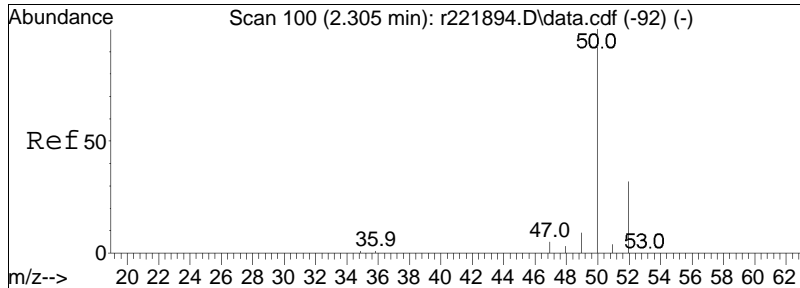




#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 2.215 min Scan# 82
Delta R.T. 0.015 min
Lab File: r223429.D
Acq: 28 Mar 2024 10:15 PM

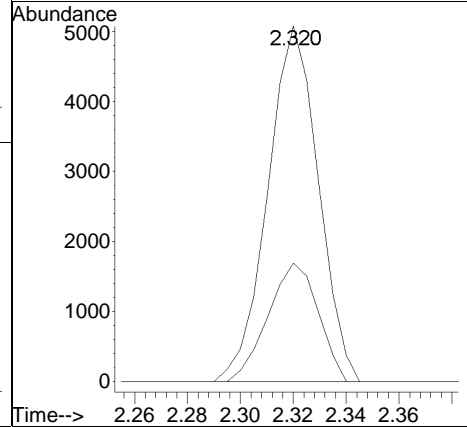
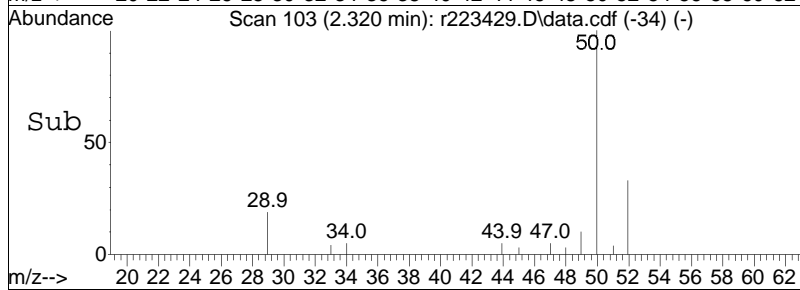
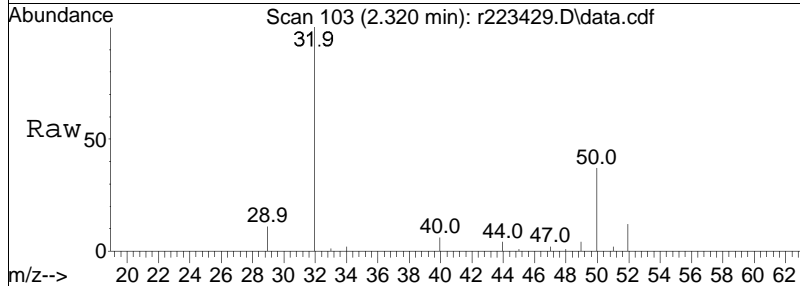
Tgt Ion: 85 Resp: 8461
Ion Ratio Lower Upper
85 100
87 33.6 26.3 39.5

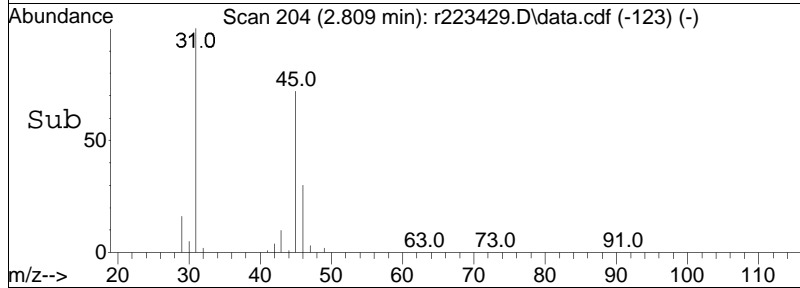
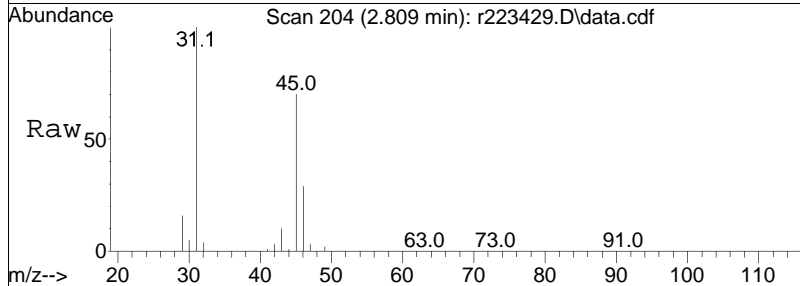
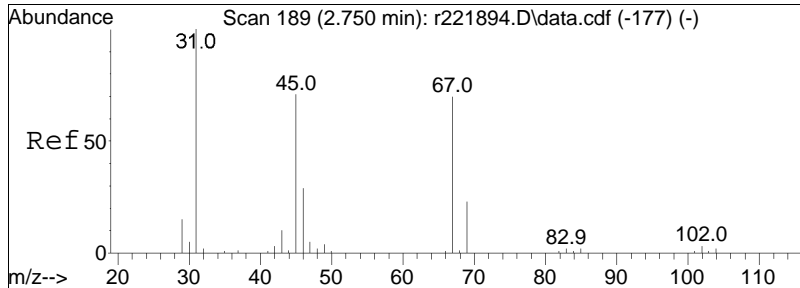




#6
 chloromethane
 Concen: 0.73 ppbV
 RT: 2.320 min Scan# 103
 Delta R.T. 0.015 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

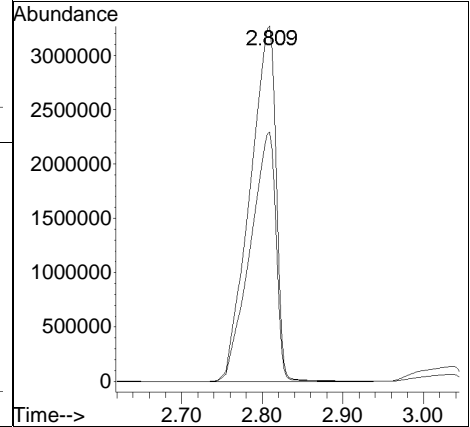
Tgt Ion	Resp	Lower	Upper
50	100		
52	33.3	25.5	38.3

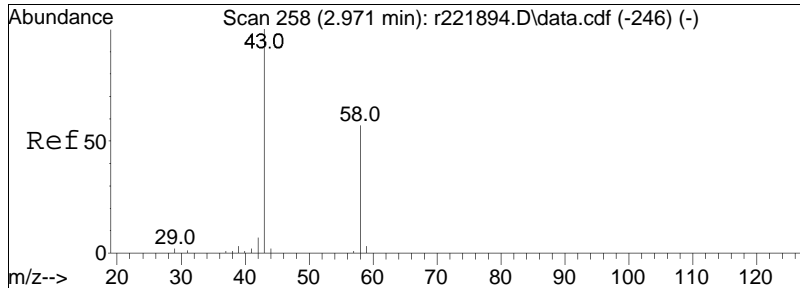




#15
 ethanol
 Concen: 2320.28 ppbV
 RT: 2.809 min Scan# 204
 Delta R.T. 0.059 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

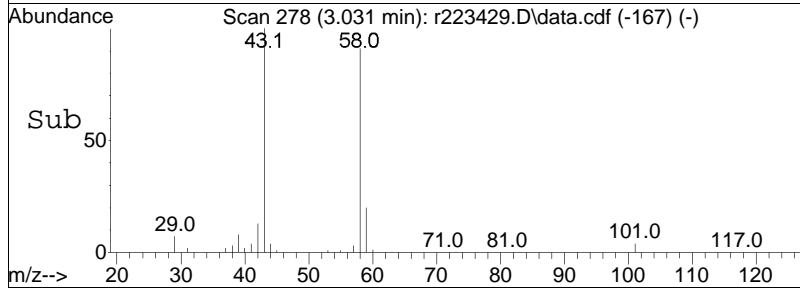
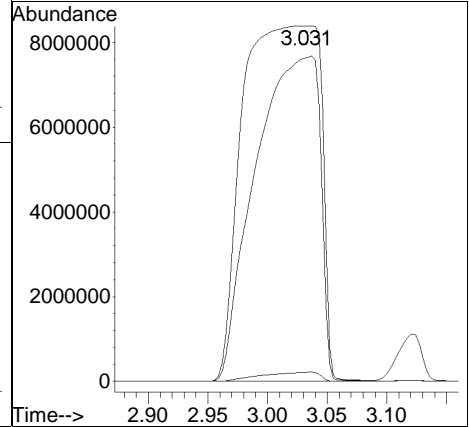
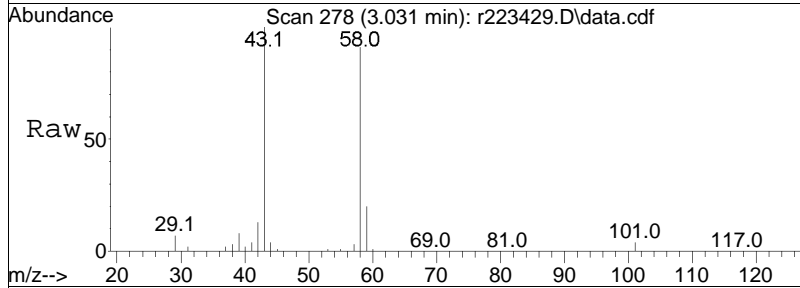
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
31	100		
45	70.2	56.6	84.8

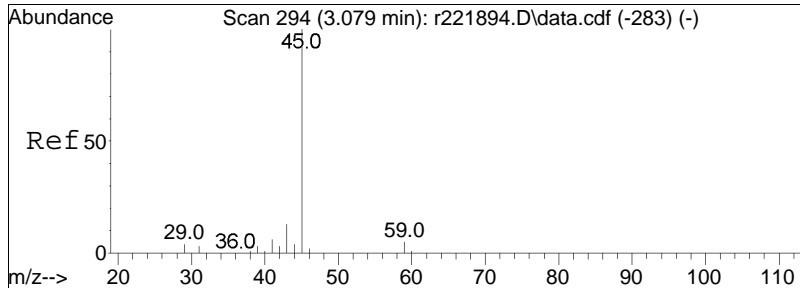




#19
 acetone
 Concen: 5495.69 ppbV
 RT: 3.031 min Scan# 278
 Delta R.T. 0.060 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

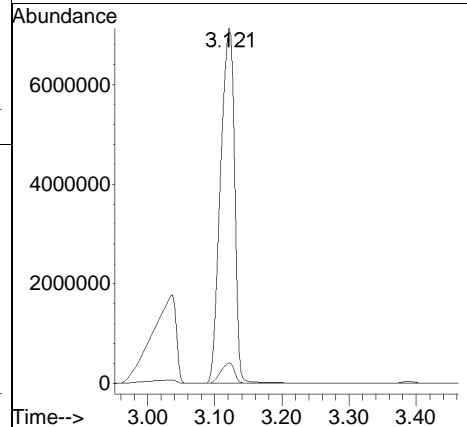
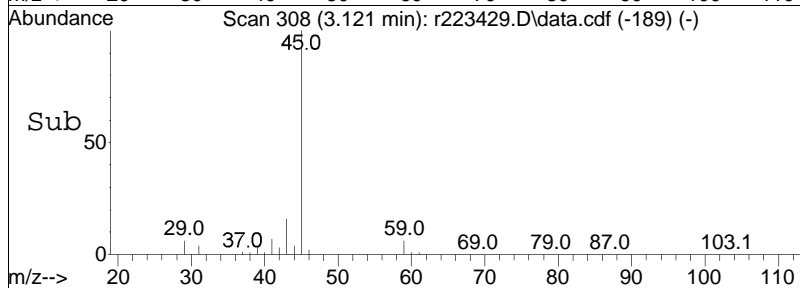
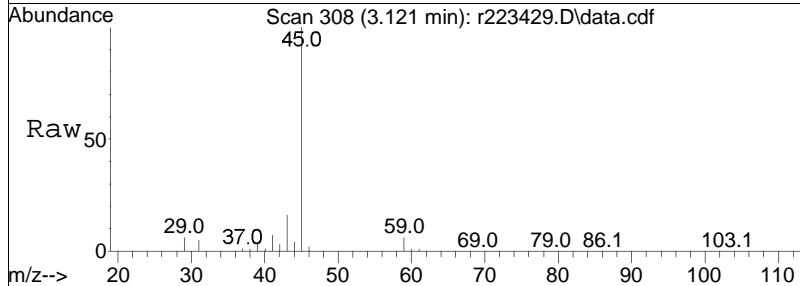
Tgt Ion	Resp	Lower	Upper
43	37541421		
Ion Ratio			
43	100		
58	91.0	45.5	68.3#
57	2.6	1.0	1.6#

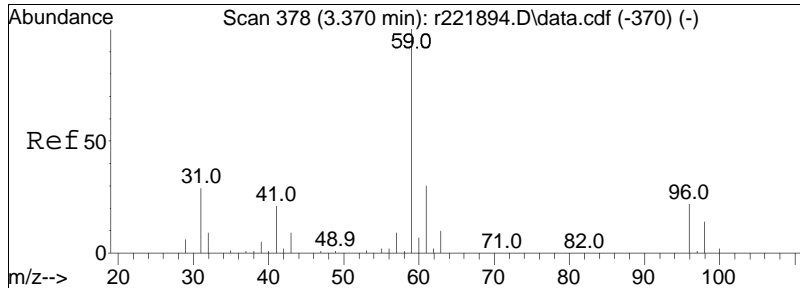




#22
 isopropyl alcohol
 Concen: 1022.78 ppbV
 RT: 3.121 min Scan# 308
 Delta R.T. 0.042 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

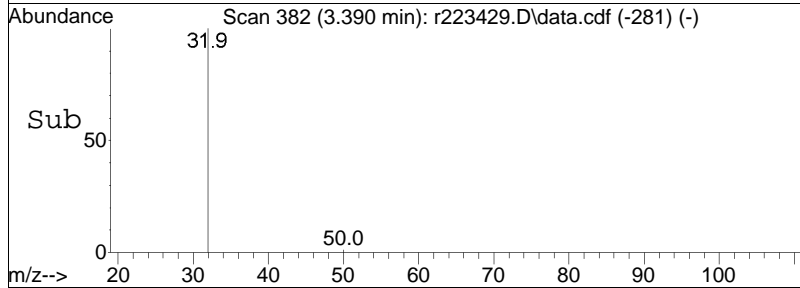
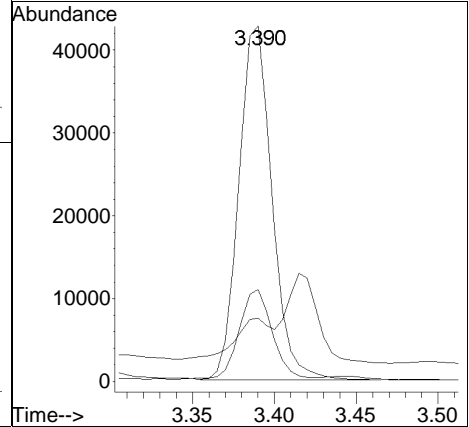
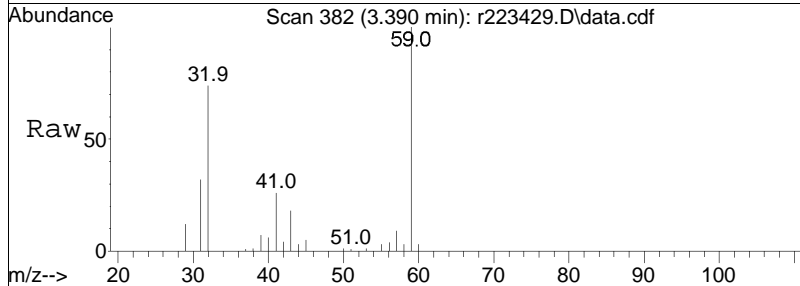
Tgt Ion: 45 Resp: 11583591
 Ion Ratio Lower Upper
 45 100
 59 5.8 4.0 6.0

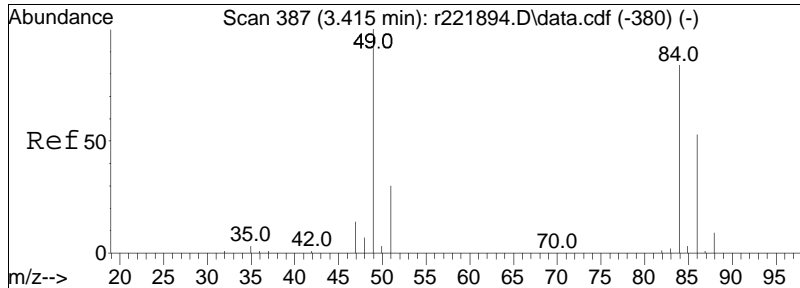




#27
 tertiary butyl alcohol
 Concen: 2.36 ppbV
 RT: 3.390 min Scan# 382
 Delta R.T. 0.020 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

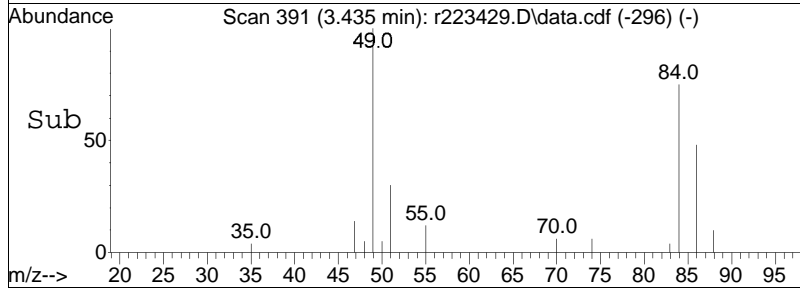
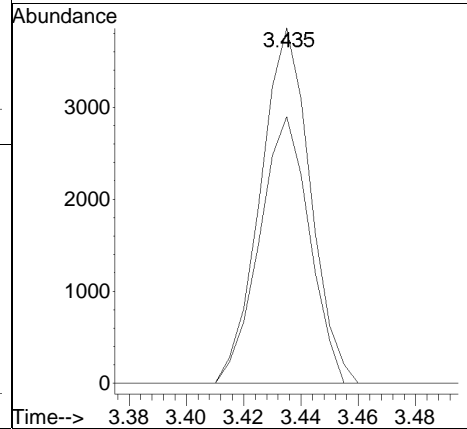
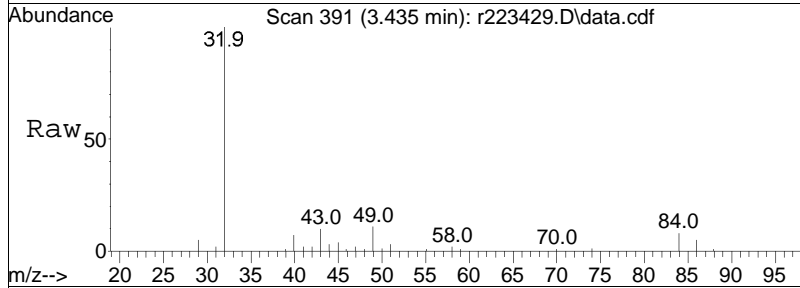
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
59	100		
41	25.9	16.9	25.3#
43	17.8	7.5	11.3#

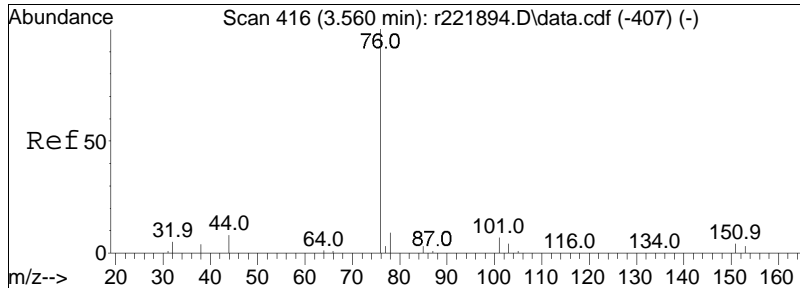




#28
 methylene chloride
 Concen: 0.28 ppbV
 RT: 3.435 min Scan# 391
 Delta R.T. 0.020 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

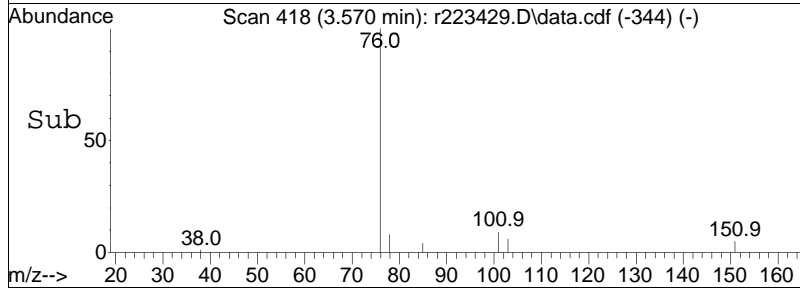
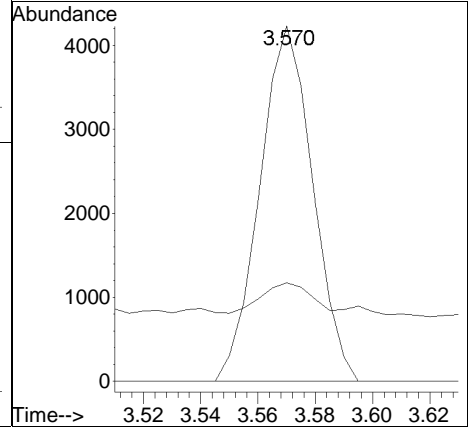
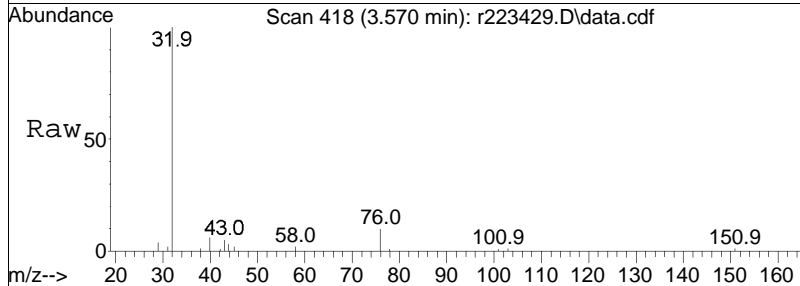
Tgt Ion:	49	84	Resp:	4684
Ion Ratio	100	75.1	Lower	Upper
			67.2	100.8

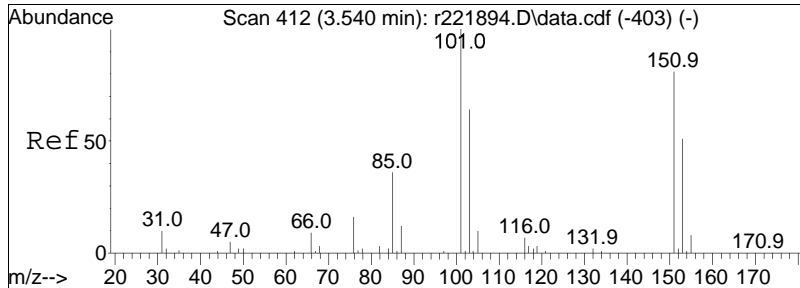




#30
 carbon disulfide
 Concen: 0.12 ppbV
 RT: 3.570 min Scan# 418
 Delta R.T. 0.010 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

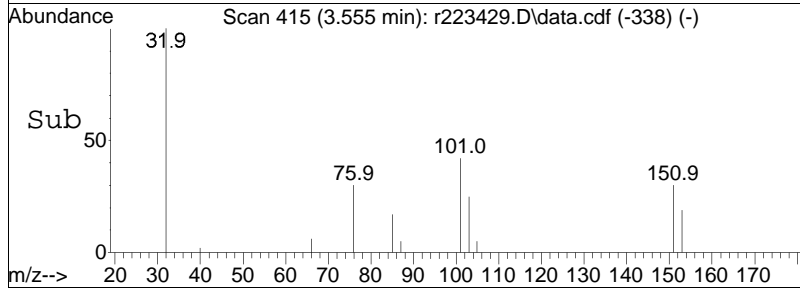
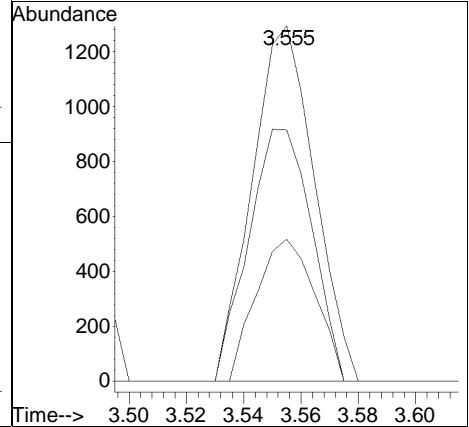
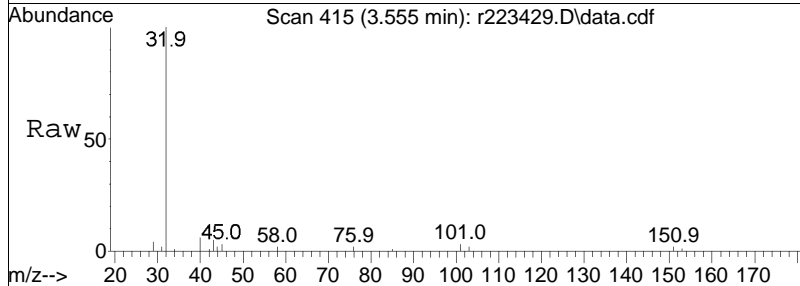
Tgt Ion	Resp	Lower	Upper
76	100		
44	27.8	6.8	10.2#

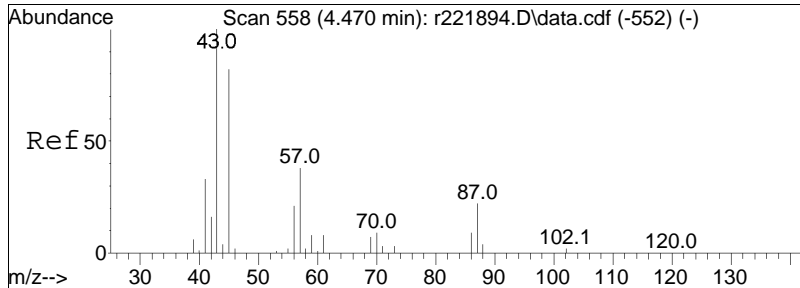




#31
 Freon 113
 Concen: 0.08 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

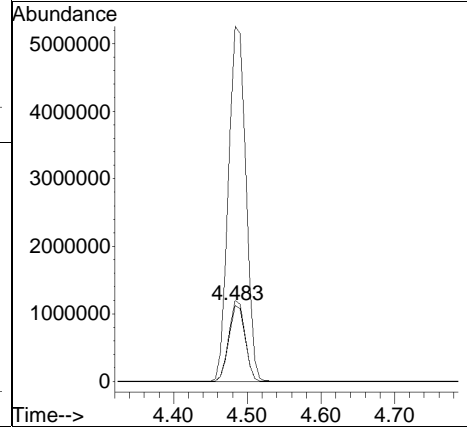
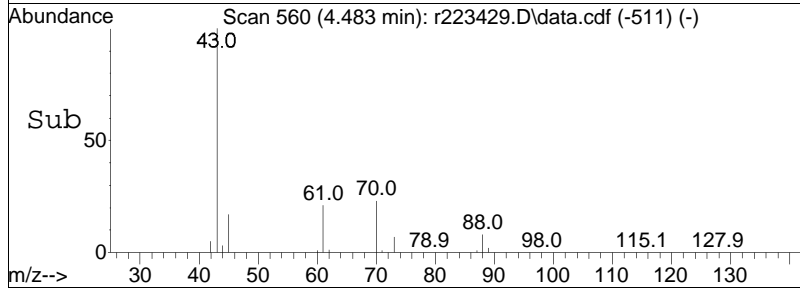
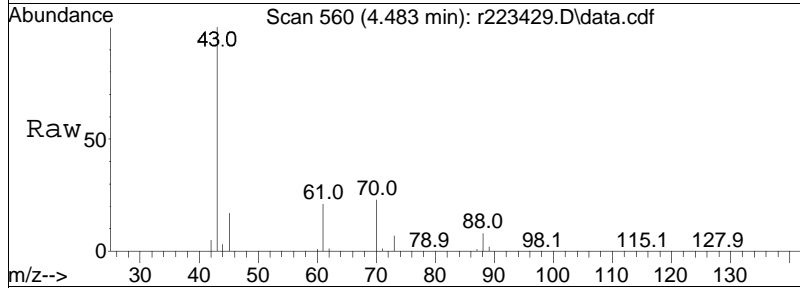
Tgt Ion	Ratio	Lower	Upper
101	100		
85	40.0	28.6	43.0
151	70.7	64.6	97.0

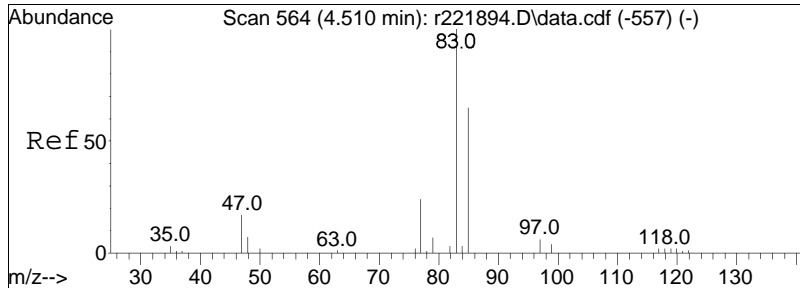




#38
 Ethyl Acetate
 Concen: 321.72 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

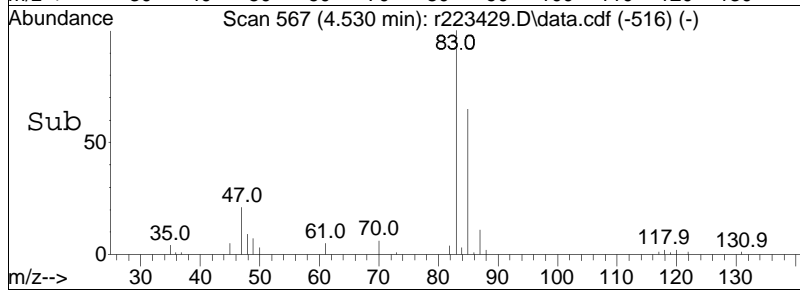
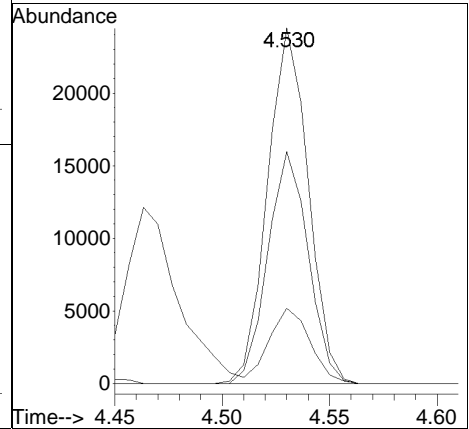
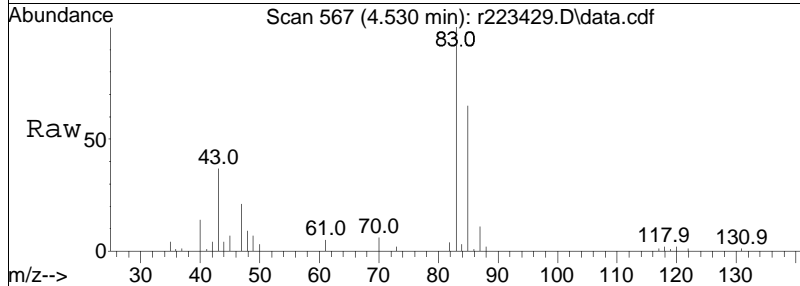
Tgt Ion:	Resp:	Lower	Upper
61	100		
70	106.9	91.7	137.5
43	468.6	971.0	1456.6#

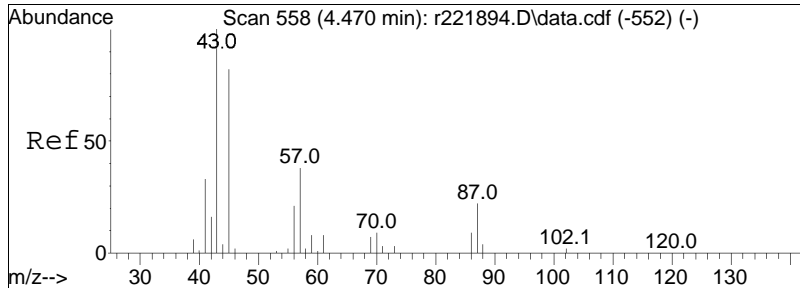




#39
 chloroform
 Concen: 1.33 ppbV
 RT: 4.530 min Scan# 567
 Delta R.T. 0.020 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

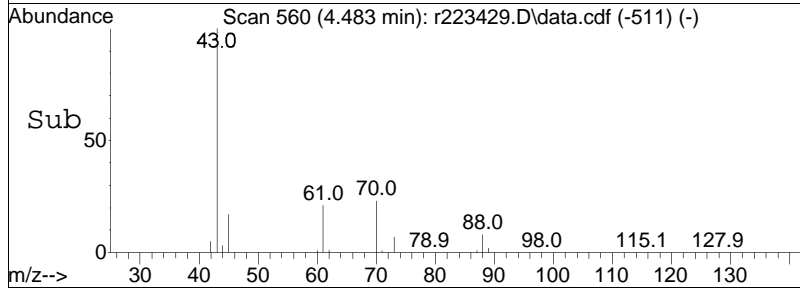
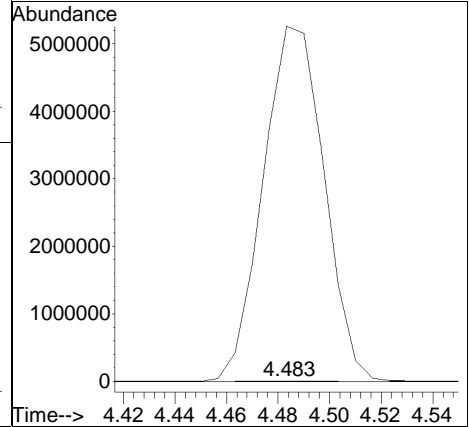
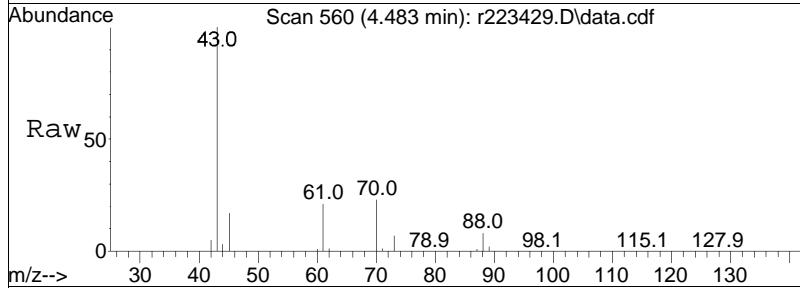
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.6	79.0
47	21.2	15.1	22.7

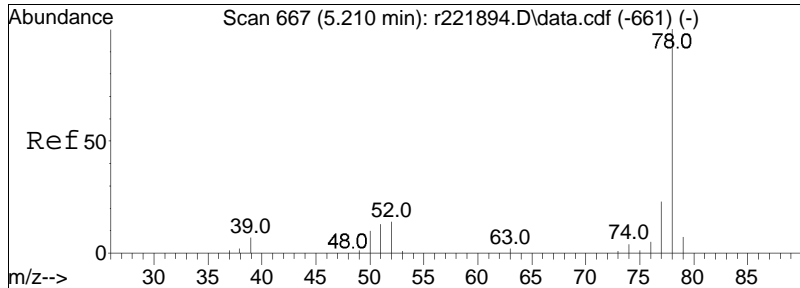




#44
 hexane
 Concen: 0.17 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

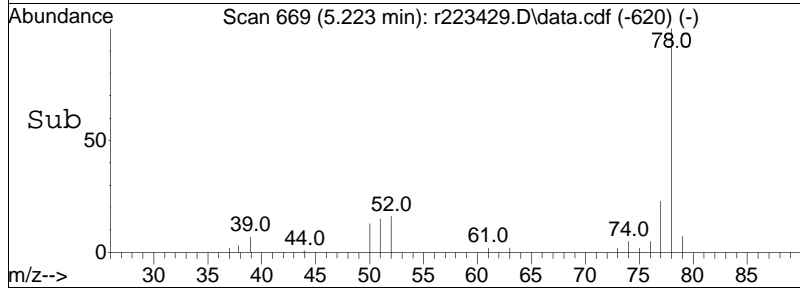
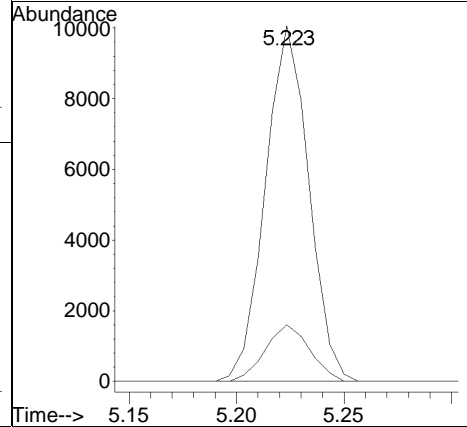
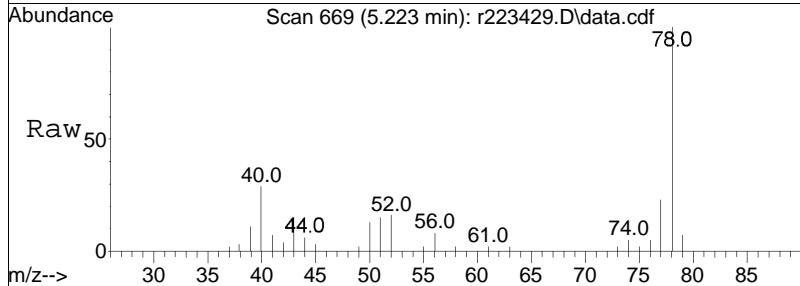
Tgt Ion:	Resp:	Lower	Upper
57	100		
43	215958.1	210.8	316.2#
86	28.1	17.9	26.9#

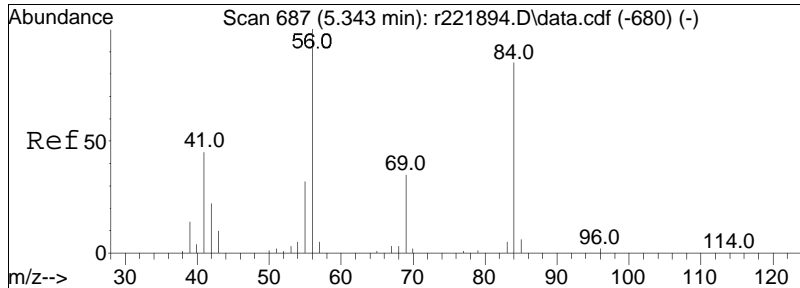




#50
benzene
Concen: 0.30 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223429.D
Acq: 28 Mar 2024 10:15 PM

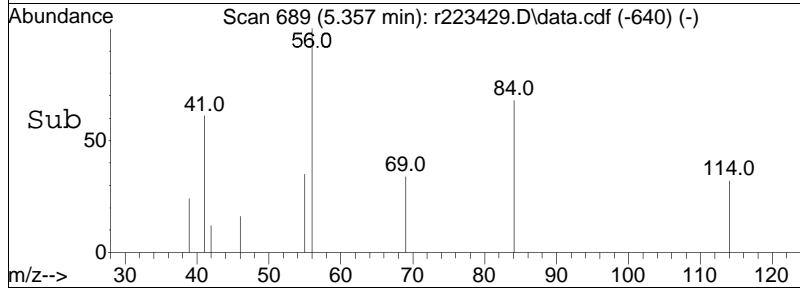
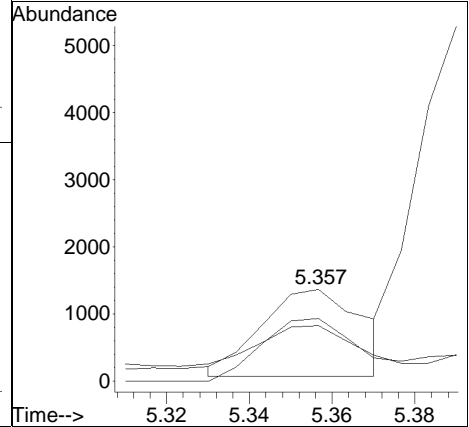
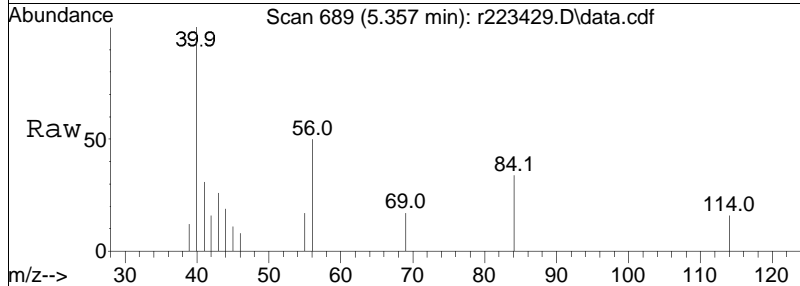
Tgt Ion	Resp	Lower	Upper
78	14106		
52	15.9	11.3	16.9

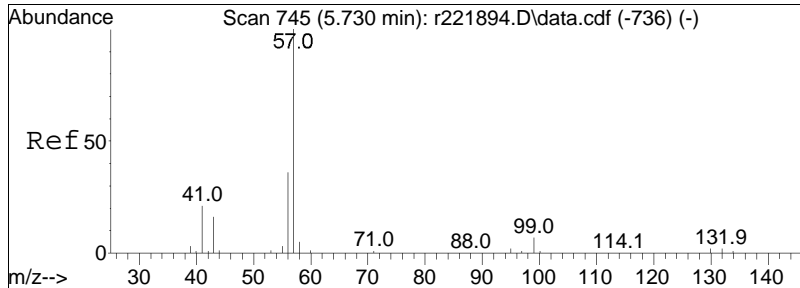




#53
 cyclohexane
 Concen: 0.09 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

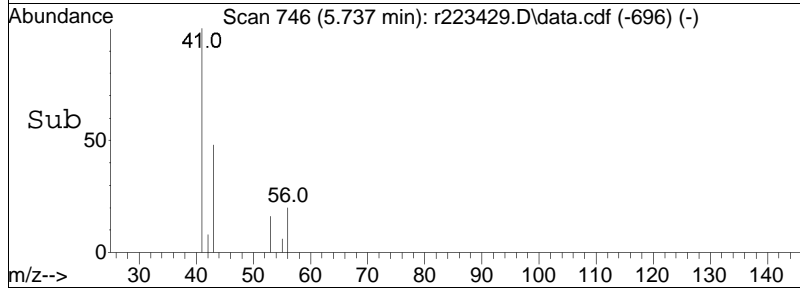
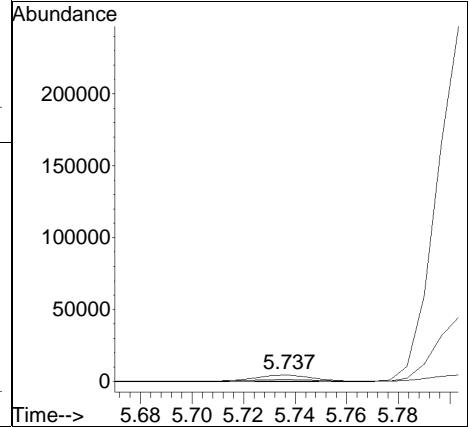
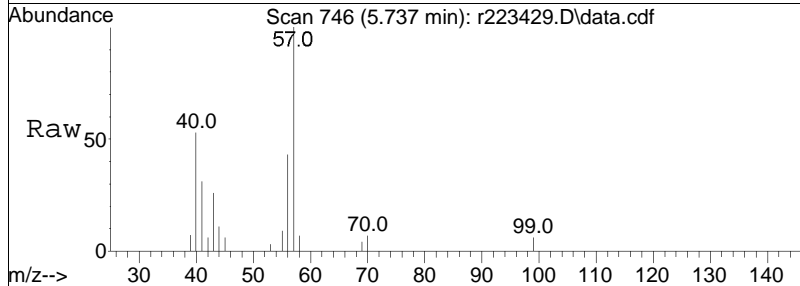
Tgt Ion	Resp	Lower	Upper
56	100		
84	68.4	70.9	106.3#
41	60.6	35.8	53.6#

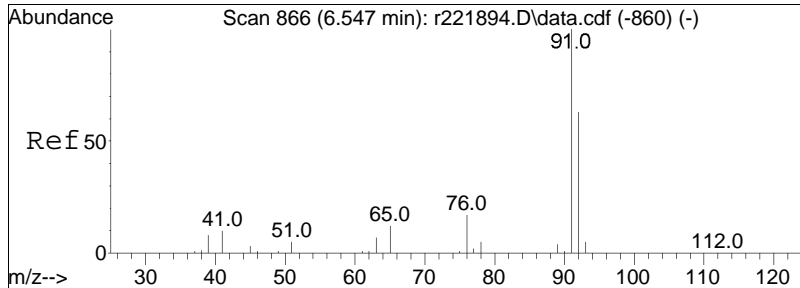




#60
 2,2,4-trimethylpentane
 Concen: 0.10 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

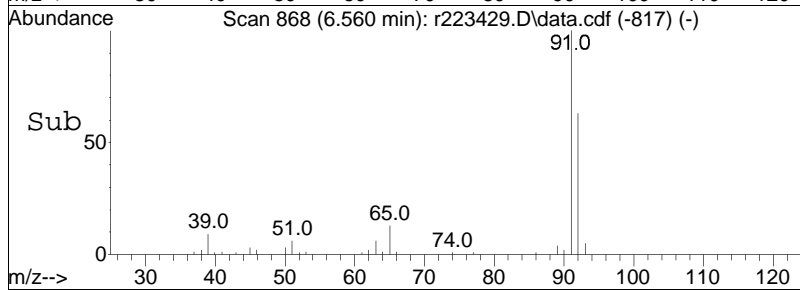
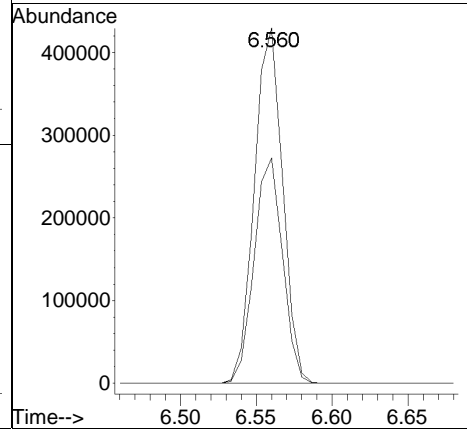
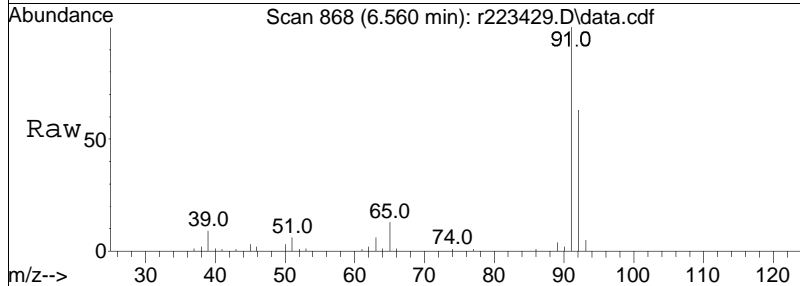
Tgt Ion	Resp	Lower	Upper
57	100		
99	5.7	5.7	8.5
41	31.2	16.9	25.3#

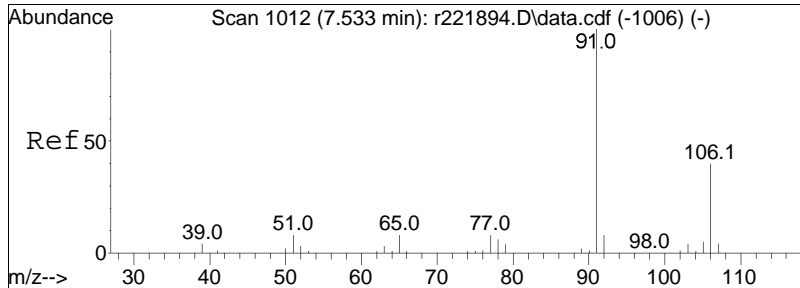




#68
 toluene
 Concen: 7.14 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

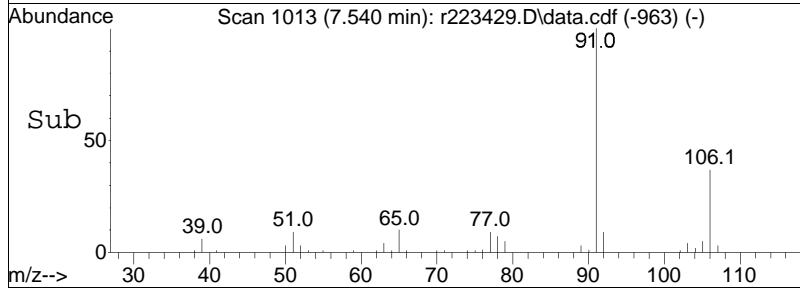
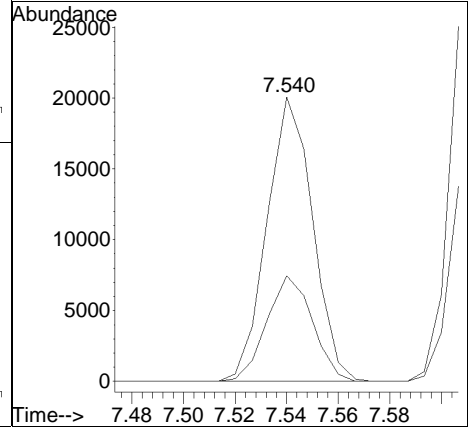
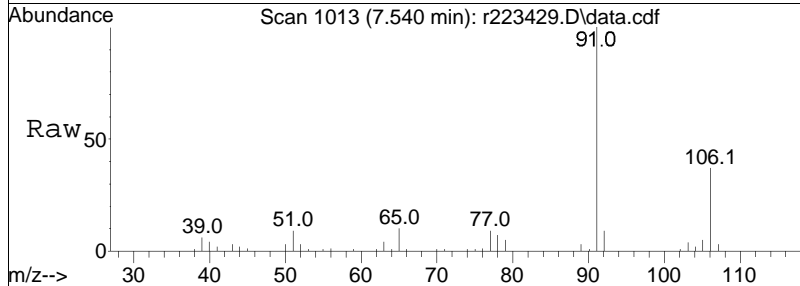
Tgt Ion: 91 Resp: 558247
 Ion Ratio Lower Upper
 91 100
 92 63.5 50.7 76.1

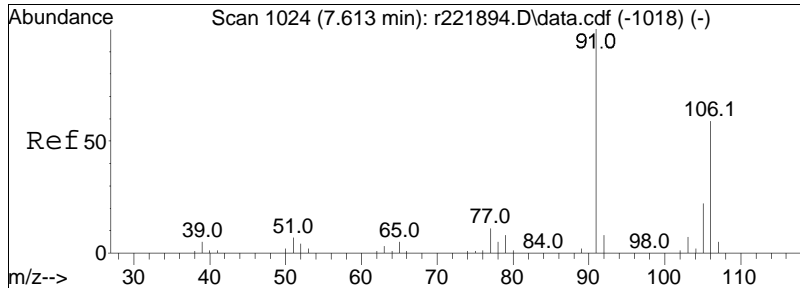




#81
 ethylbenzene
 Concen: 0.26 ppbV
 RT: 7.540 min Scan# 1013
 Delta R.T. 0.007 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

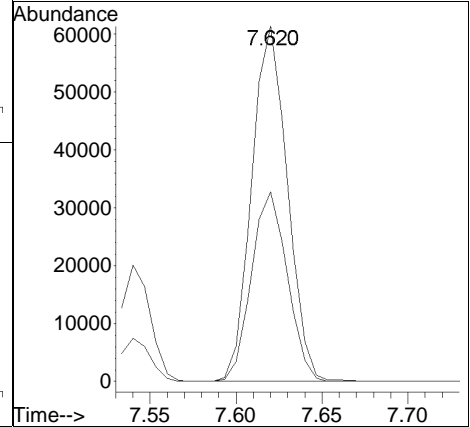
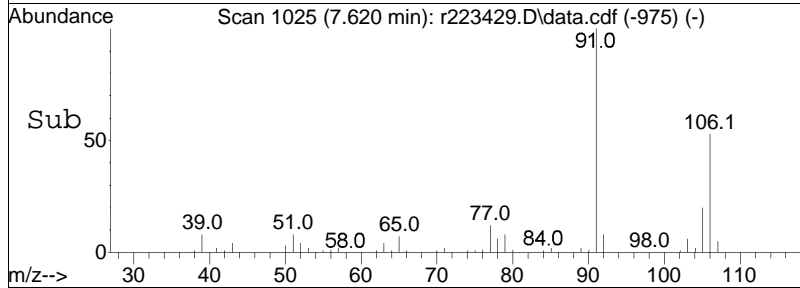
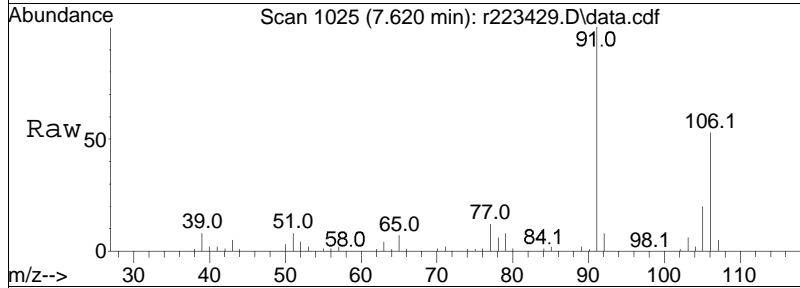
Tgt Ion: 91 Resp: 24732
 Ion Ratio Lower Upper
 91 100
 106 37.1 31.7 47.5

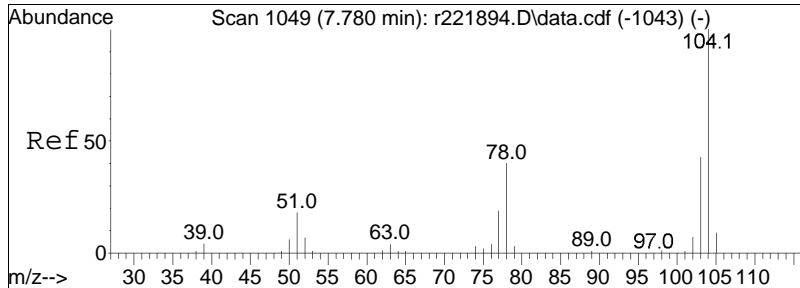




#83
 m+p-xylene
 Concen: 1.20 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

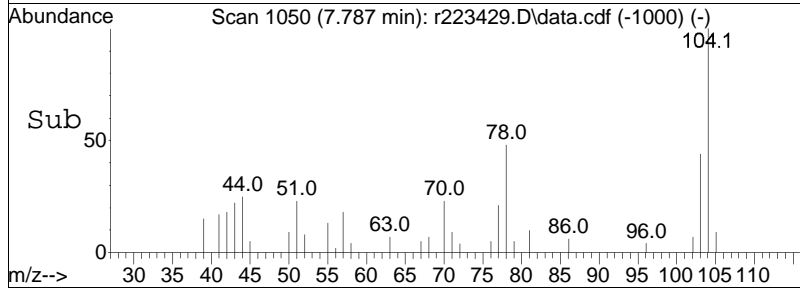
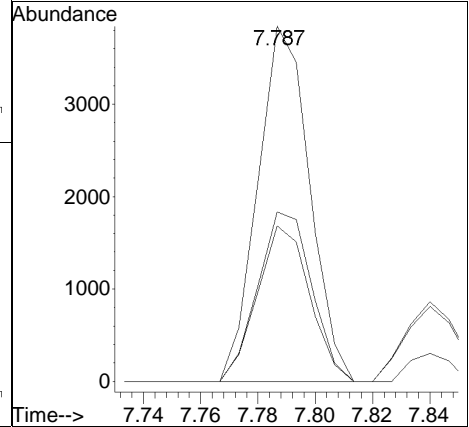
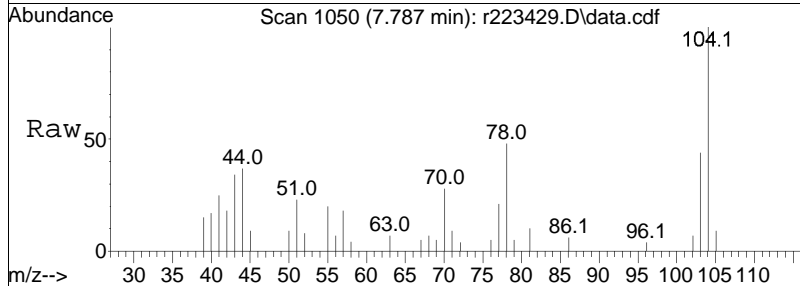
Tgt Ion: 91 Resp: 88563
 Ion Ratio Lower Upper
 91 100
 106 53.4 47.4 71.2

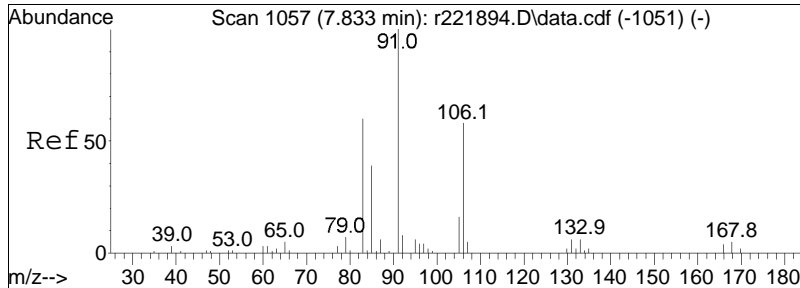




#85
 styrene
 Concen: 0.07 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

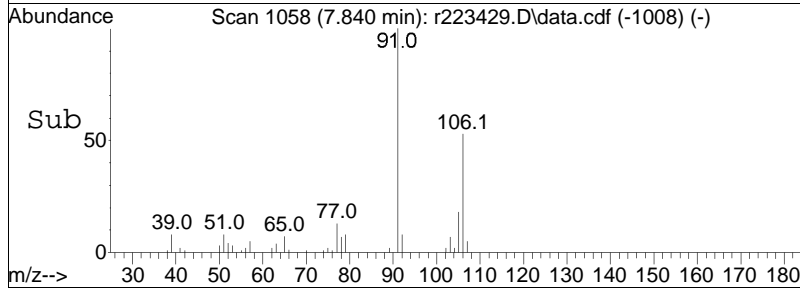
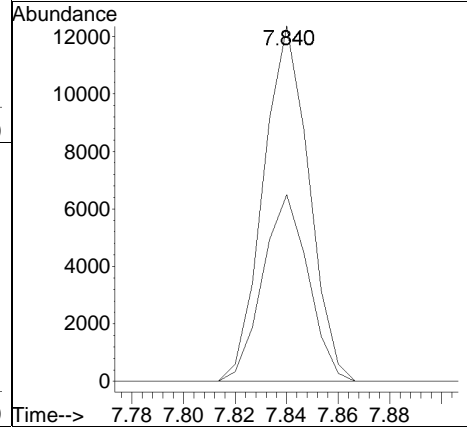
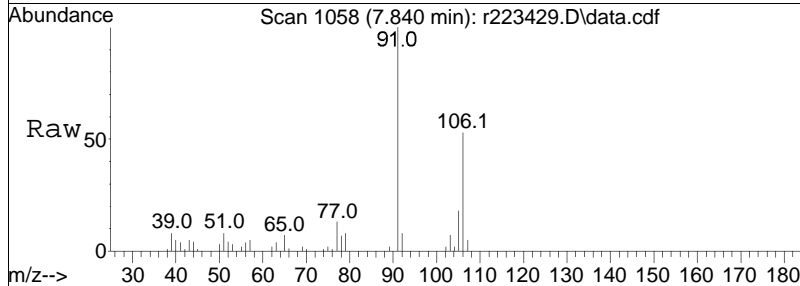
Tgt Ion	Ratio	Lower	Upper
104	100		
103	43.8	34.3	51.5
78	47.7	32.3	48.5





#87
 o-xylene
 Concen: 0.21 ppbV
 RT: 7.840 min Scan# 1058
 Delta R.T. 0.007 min
 Lab File: r223429.D
 Acq: 28 Mar 2024 10:15 PM

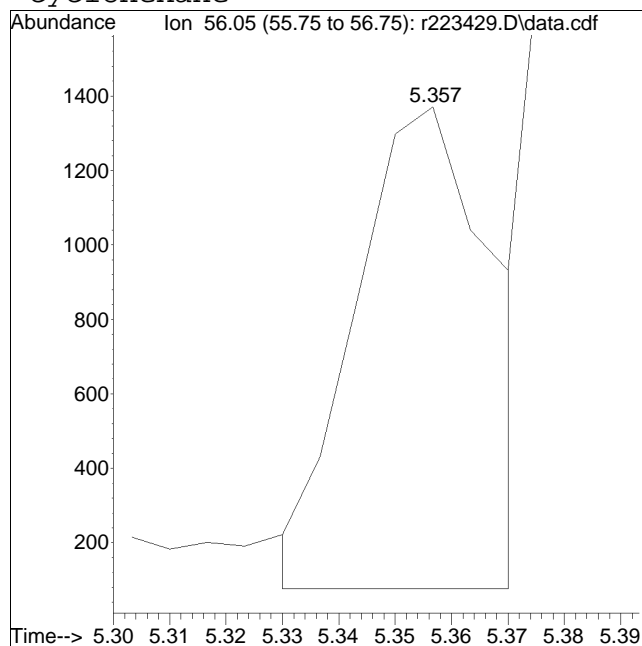
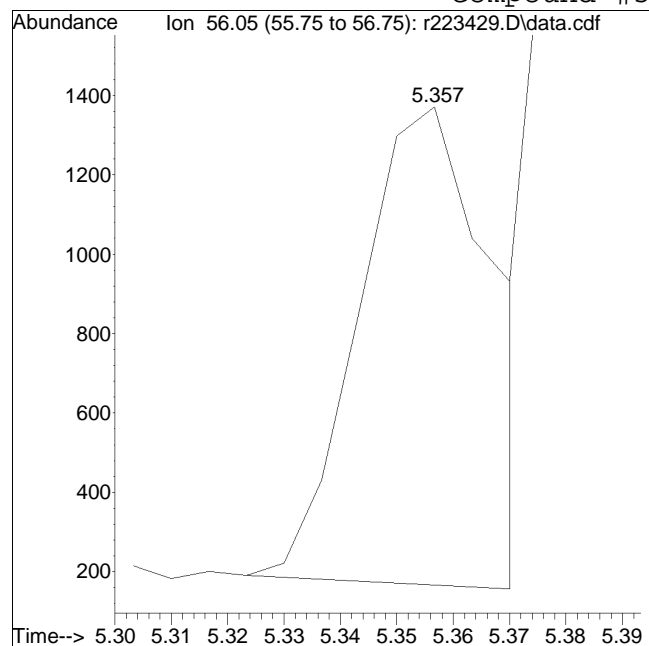
Tgt Ion: 91 Resp: 15209
 Ion Ratio Lower Upper
 91 100
 106 52.6 46.2 69.4



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223429.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:0: 5 Instrument :
Sample : L2414212-05,3,250,250 Quant Date : 3/29/2024 7:41 am

Compound #53: cyclohexane



Original Peak Response = 1973

Manual Peak Response = 2189 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223431.D
 Acq On : 28 Mar 2024 11:18 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-06,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:44:09 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	218303	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	98.14%		
43) 1,4-difluorobenzene	5.390	114	606590	10.000	ppbV	0.01
Standard Area =	633782		Recovery =	95.71%		
67) chlorobenzene-D5	7.353	54	88717	10.000	ppbV	# 0.00
Standard Area =	85965		Recovery =	103.20%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.225	85	8923	0.508	ppbV	100
6) chloromethane	2.330	50	6143	0.644	ppbV	99
7) Freon-114	2.390		0	N.D.		
10) 1,3-butadiene	2.525	54	636M6	0.071	ppbV	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	980823	279.727	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.986	43	2459453	350.178	ppbV	100
21) trichlorofluoromethane	3.073	101	2511	0.268	ppbV	100
22) isopropyl alcohol	3.097	45	235108	20.190	ppbV	100
27) tertiary butyl alcohol	3.395	59	2106	0.080	ppbV	# 31
28) methylene chloride	3.430	49	2424	0.140	ppbV	94
29) 3-chloropropene	3.455		0	N.D.		
30) carbon disulfide	3.575		0	N.D.		
31) Freon 113	3.560	101	1863	0.071	ppbV	91
32) trans-1,2-dichloroethene	3.970		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.977		0	N.D.		
36) 2-butanone	4.170	43	13408	0.378	ppbV	96
38) Ethyl Acetate	4.490	61	23176	4.202	ppbV	# 10
39) chloroform	4.523	83	3527	0.141	ppbV	97
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	0.000		0	N.D.	d	
50) benzene	5.223	78	11650	0.257	ppbV	93
53) cyclohexane	5.357		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223431.D
 Acq On : 28 Mar 2024 11:18 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-06,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:44:09 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

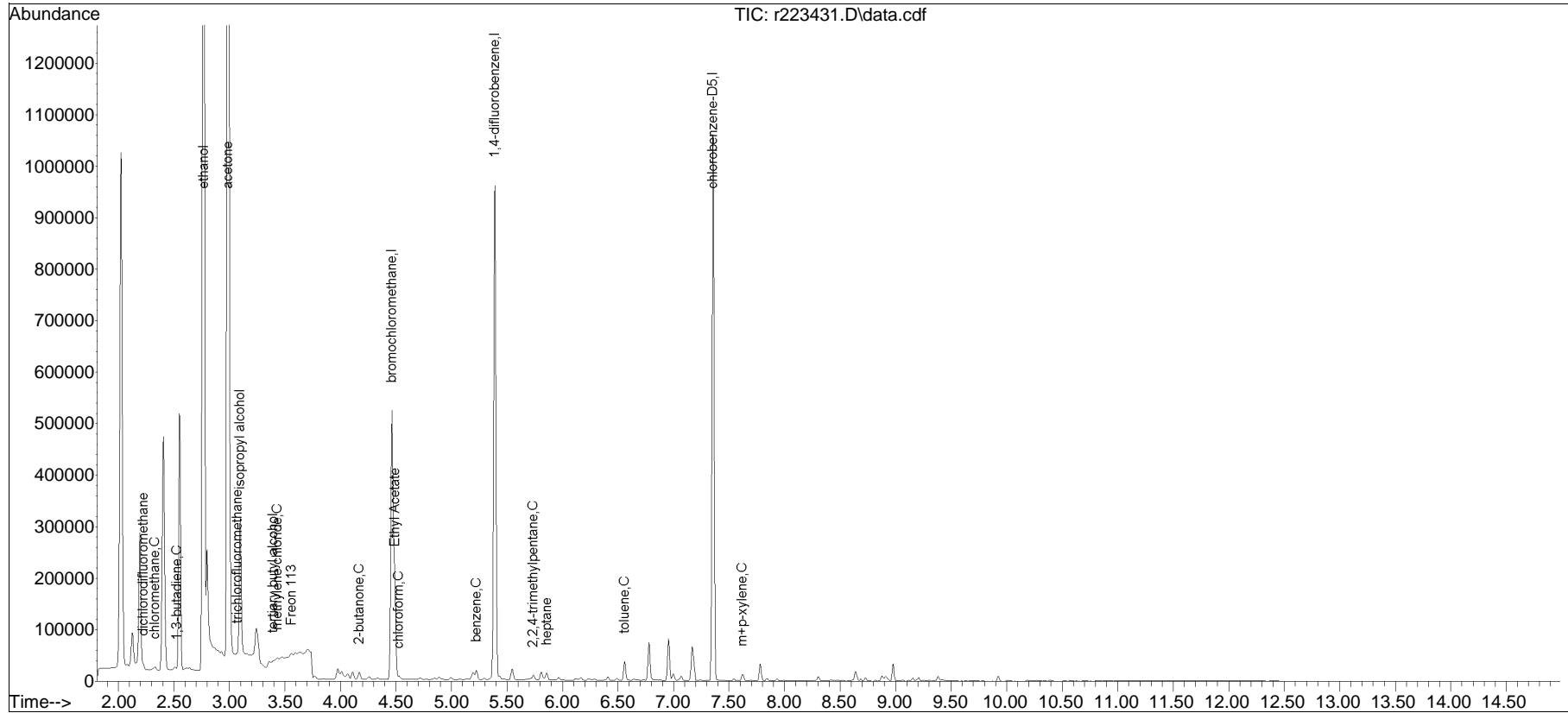
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	5.697		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	5728	0.084	ppbV #	84
62) heptane	5.857	43	4671M6	0.173	ppbV	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	18124	0.245	ppbV	99
72) 2-hexanone	0.000		0		N.D. d	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	7.540		0		N.D.	
83) m+p-xylene	7.620	91	5968	0.086	ppbV	91
84) bromoform	0.000		0		N.D.	
85) styrene	7.793		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.420		0		N.D.	
97) 1,3,5-trimethylbenzene	8.480		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	0.000		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

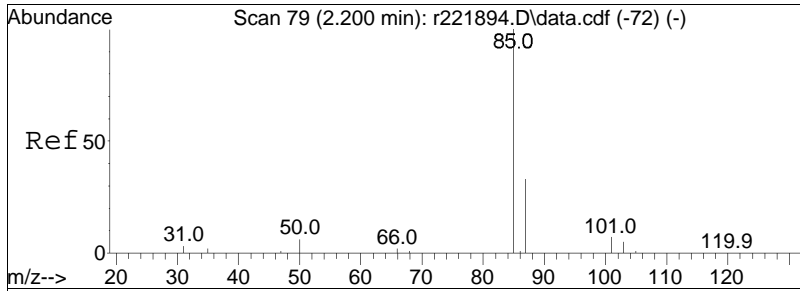
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223431.D
Acq On : 28 Mar 2024 11:18 PM
Operator : AIRLAB22:JMB
Sample : L2414212-06,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

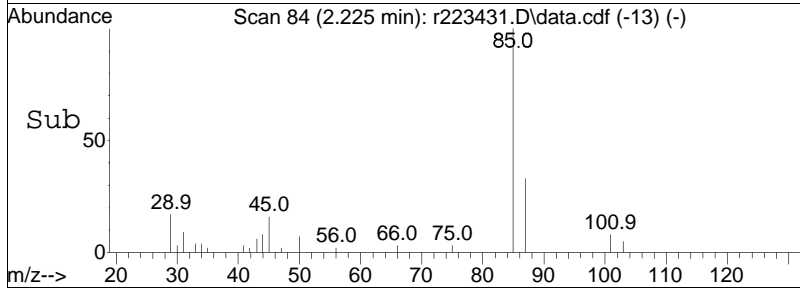
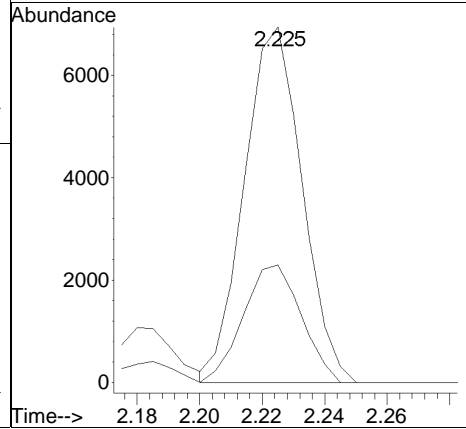
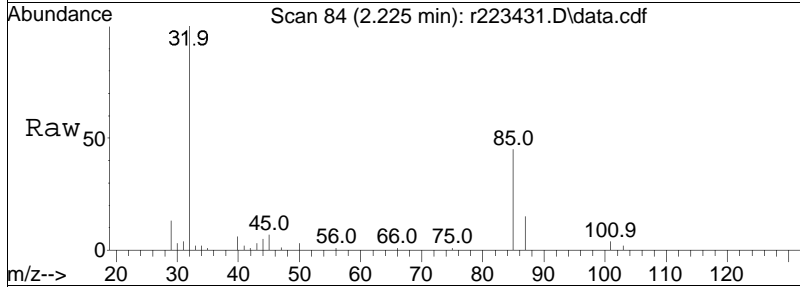
Quant Time: Mar 29 07:44:09 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

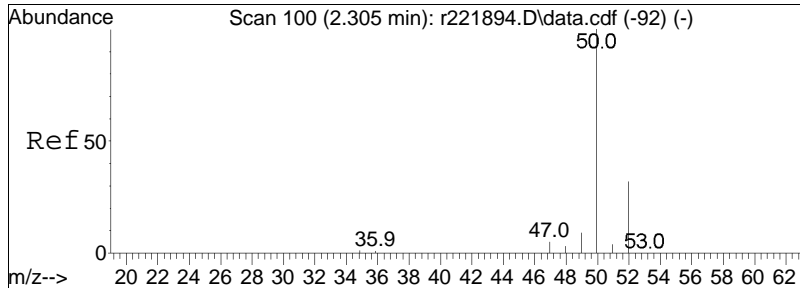




#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 2.225 min Scan# 84
Delta R.T. 0.025 min
Lab File: r223431.D
Acq: 28 Mar 2024 11:18 PM

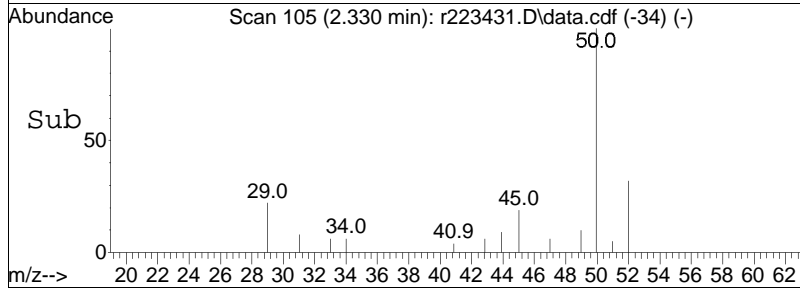
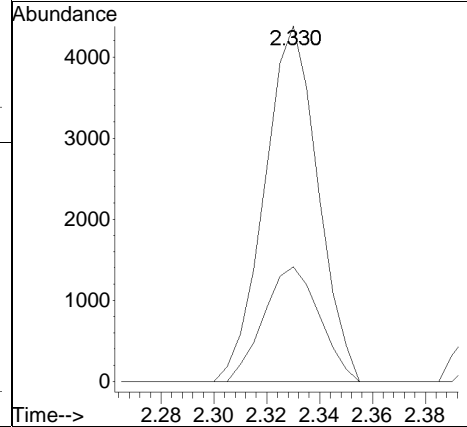
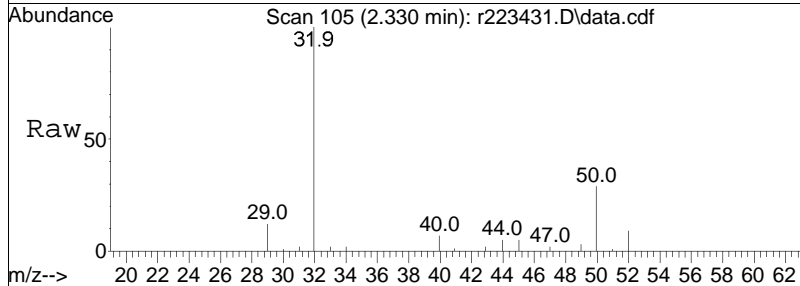
Tgt Ion: 85 Resp: 8923
Ion Ratio Lower Upper
85 100
87 33.1 26.3 39.5

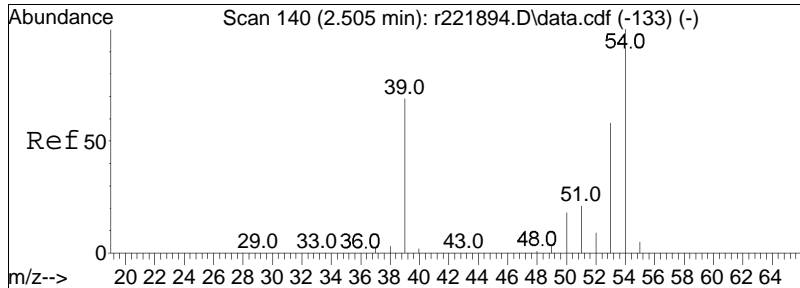




#6
 chloromethane
 Concen: 0.64 ppbV
 RT: 2.330 min Scan# 105
 Delta R.T. 0.025 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

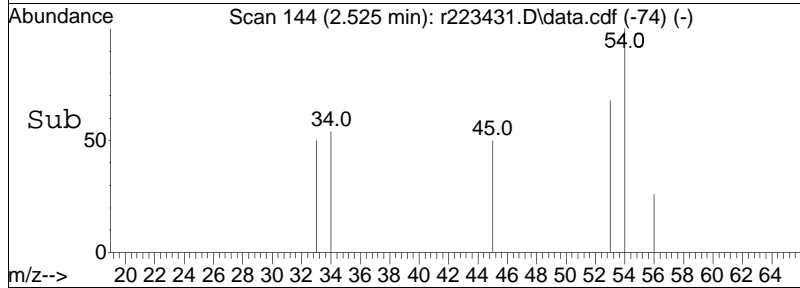
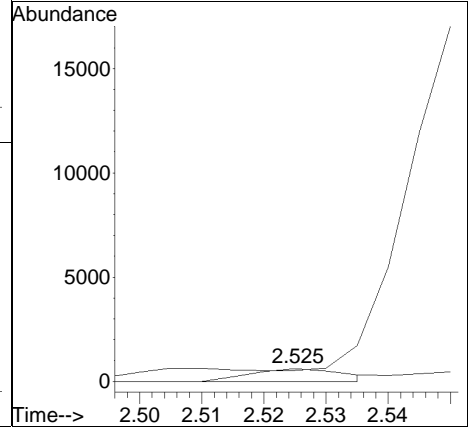
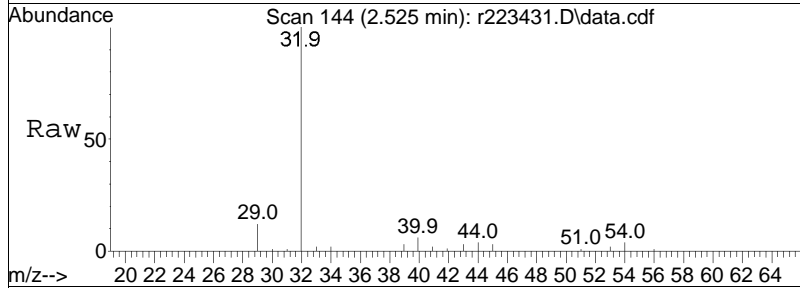
Tgt Ion	Resp	Lower	Upper
50	100		
52	32.2	25.5	38.3

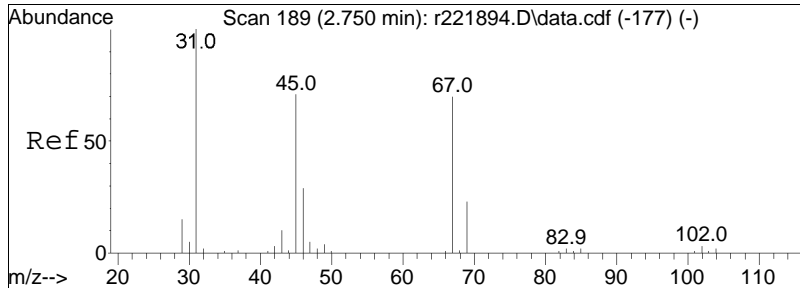




#10
 1,3-butadiene
 Concen: 0.07 ppbV m
 RT: 2.525 min Scan# 144
 Delta R.T. 0.020 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

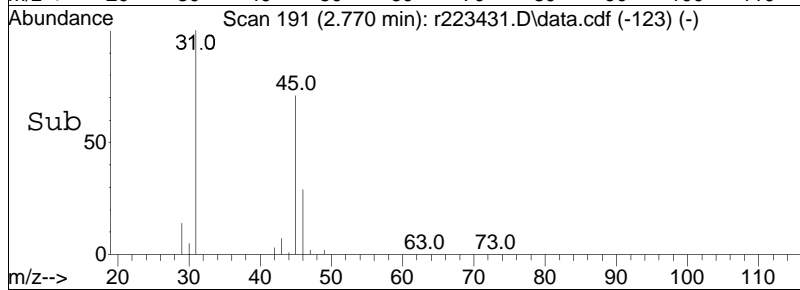
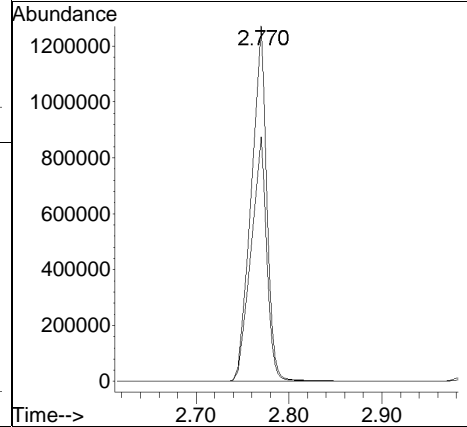
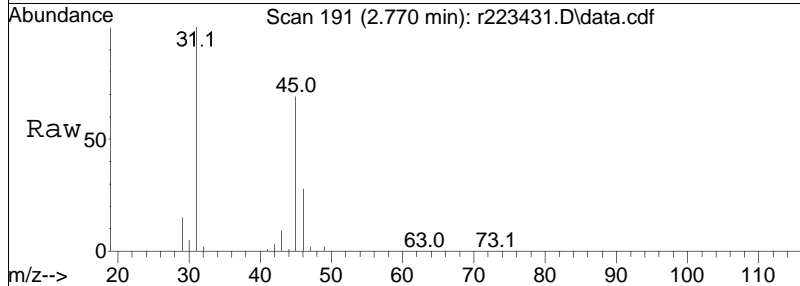
Tgt Ion:	54	Resp:	636
Ion Ratio	Lower	Upper	
54	100		
39	86.1	55.4	83.2#

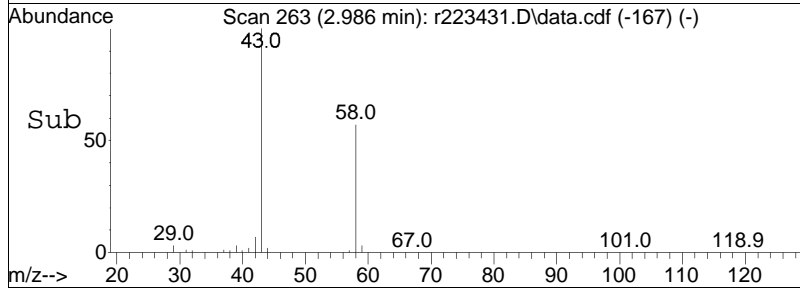
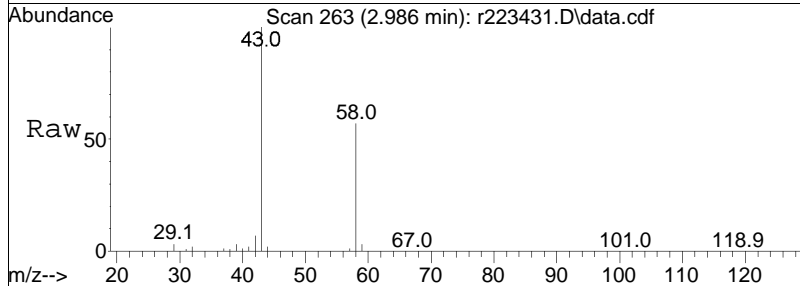
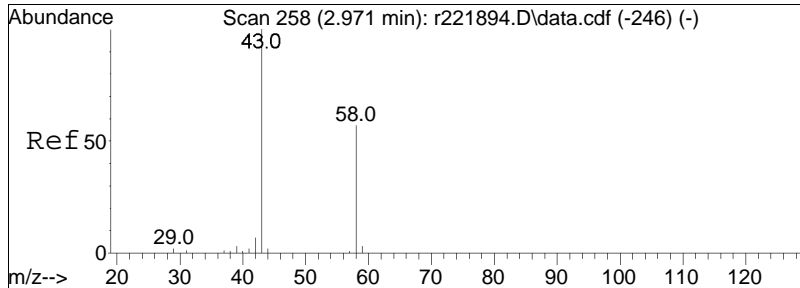




#15
 ethanol
 Concen: 279.73 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

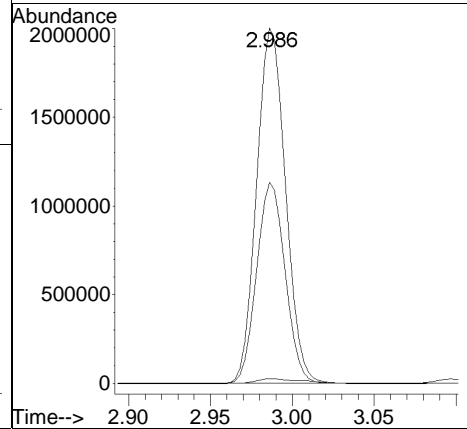
Tgt Ion	Resp	Lower	Upper
31	100		
45	68.9	56.6	84.8

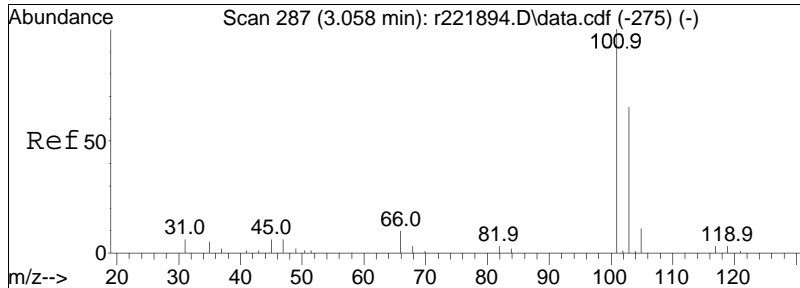




#19
 acetone
 Concen: 350.18 ppbV
 RT: 2.986 min Scan# 263
 Delta R.T. 0.015 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

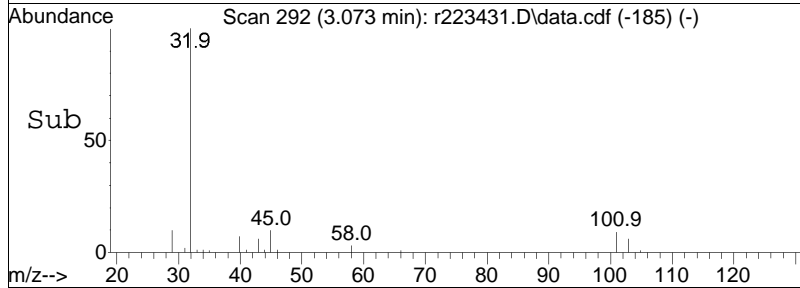
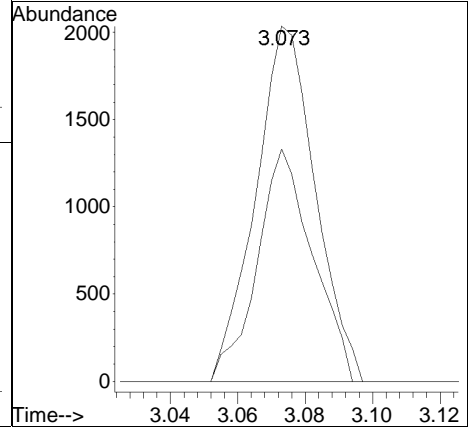
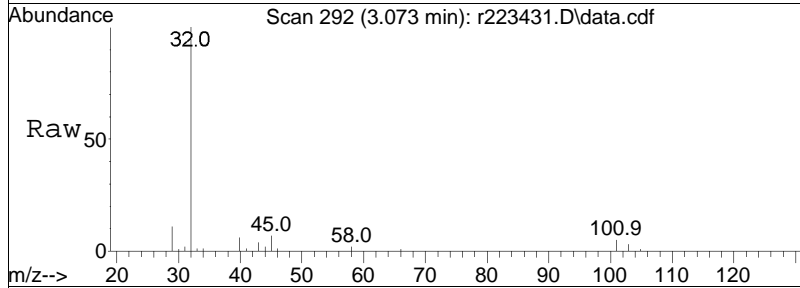
Tgt Ion:	43	Resp:	2459453
Ion Ratio	Lower	Upper	
43	100		
58	56.6	45.5	68.3
57	1.3	1.0	1.6

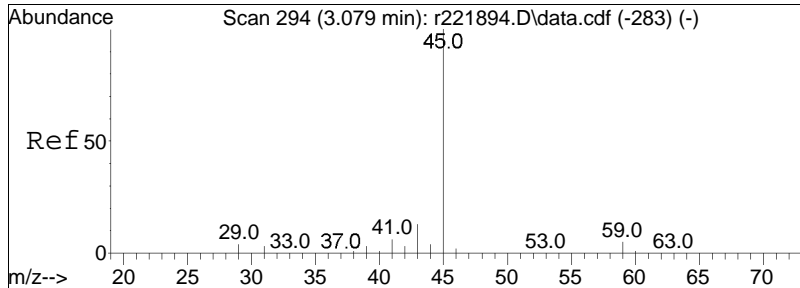




#21
 trichlorofluoromethane
 Concen: 0.27 ppbV
 RT: 3.073 min Scan# 292
 Delta R.T. 0.015 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

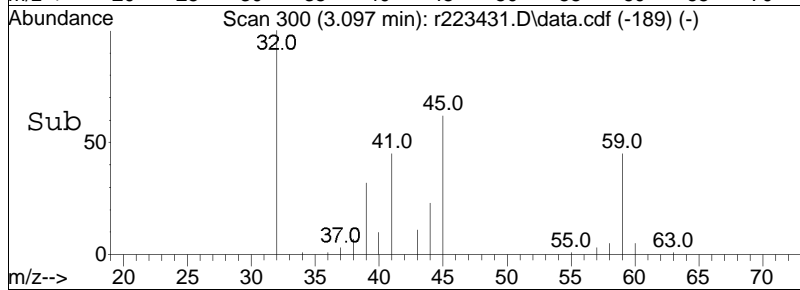
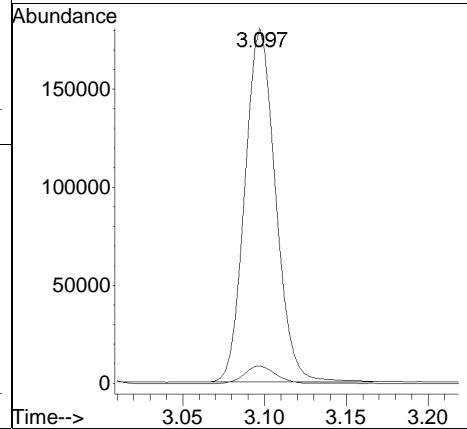
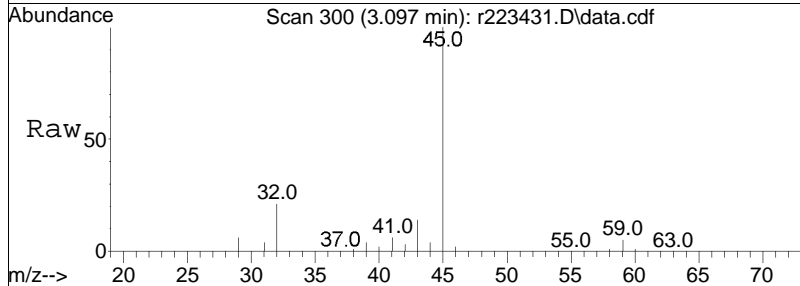
Tgt Ion	Resp	Lower	Upper
101	2511		
101	100		
103	65.4	52.2	78.4

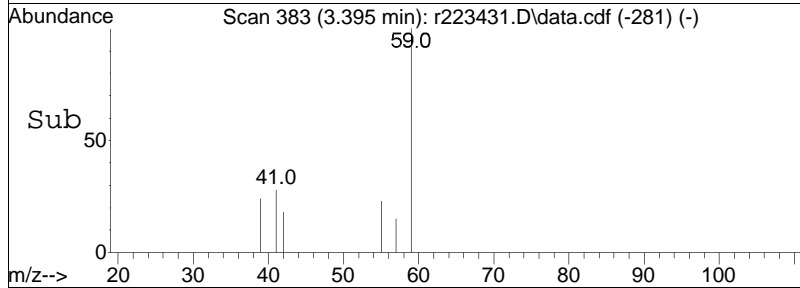
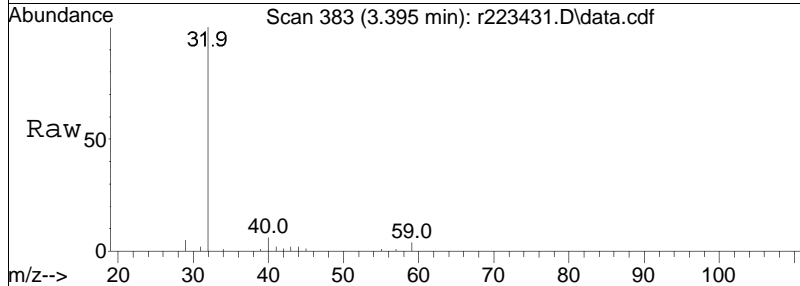
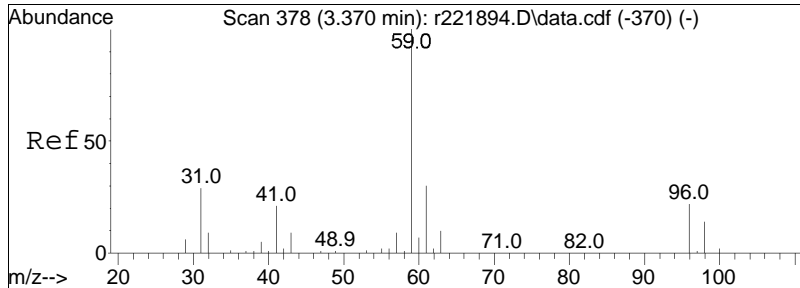




#22
 isopropyl alcohol
 Concen: 20.19 ppbV
 RT: 3.097 min Scan# 300
 Delta R.T. 0.018 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

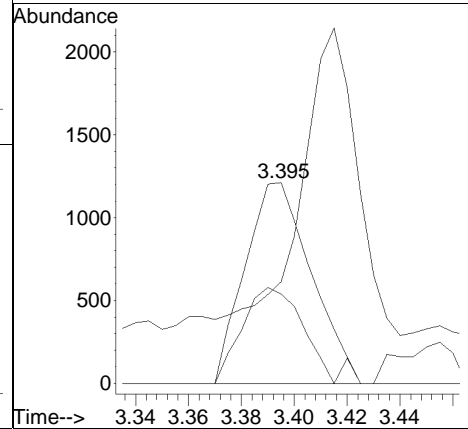
Tgt Ion:	45	Resp:	235108
Ion Ratio	100	Lower	Upper
45	100		
59	4.9	4.0	6.0

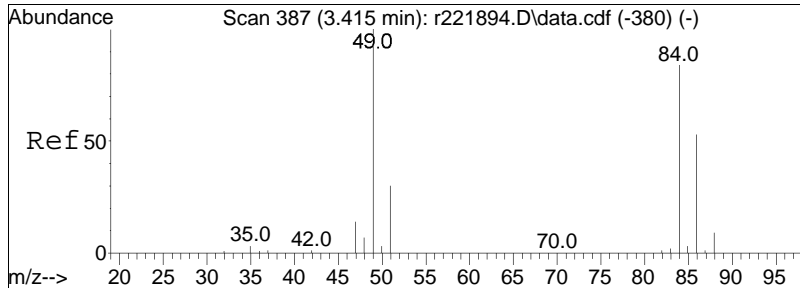




#27
 tertiary butyl alcohol
 Concen: 0.08 ppbV
 RT: 3.395 min Scan# 383
 Delta R.T. 0.025 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

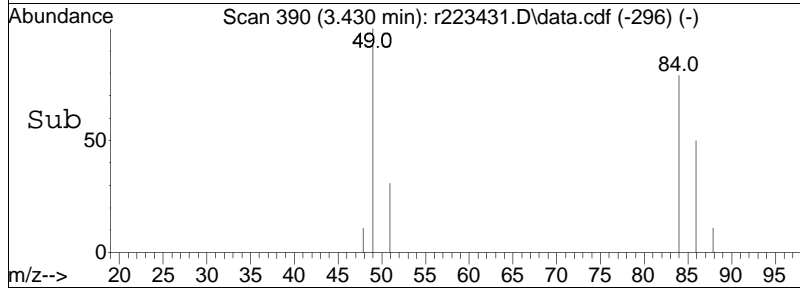
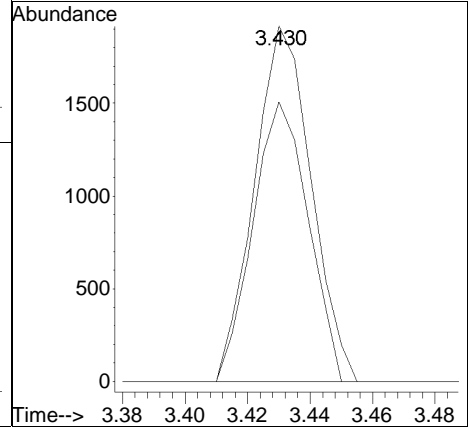
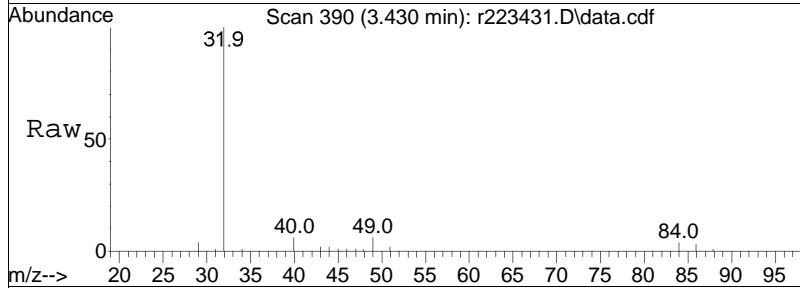
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
59	100		
41	44.5	16.9	25.3#
43	50.6	7.5	11.3#

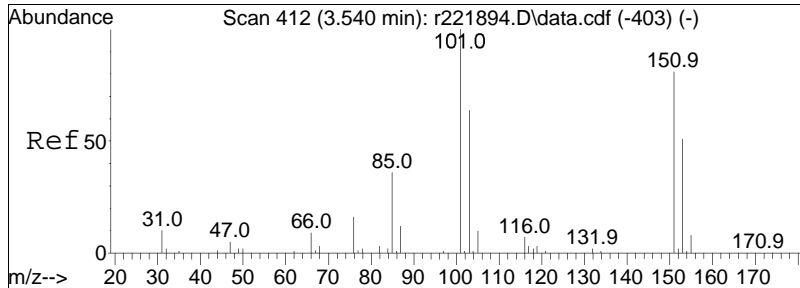




#28
 methylene chloride
 Concen: 0.14 ppbV
 RT: 3.430 min Scan# 390
 Delta R.T. 0.015 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

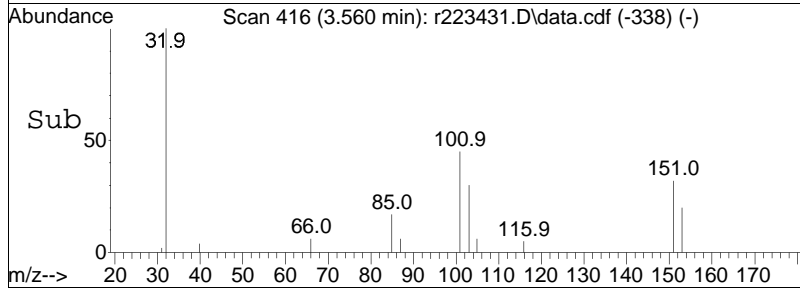
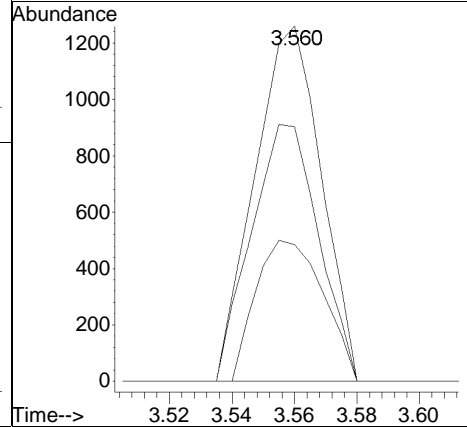
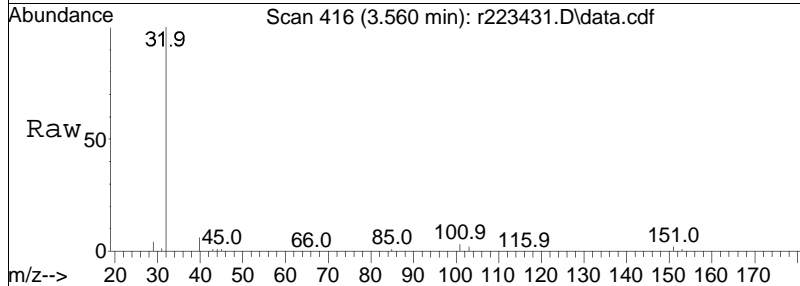
Tgt Ion:	49	84	Resp:	2424
Ion Ratio	100	78.7	Lower	Upper
			67.2	100.8

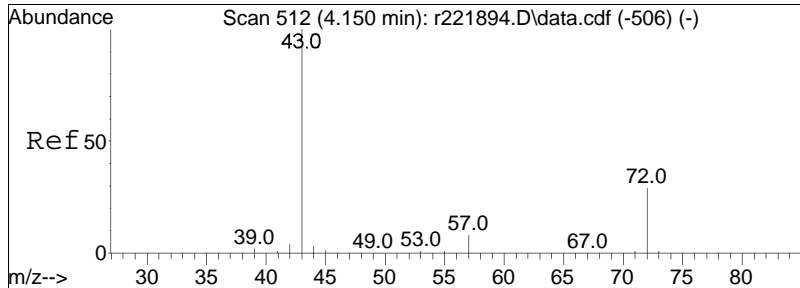




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.560 min Scan# 416
 Delta R.T. 0.020 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

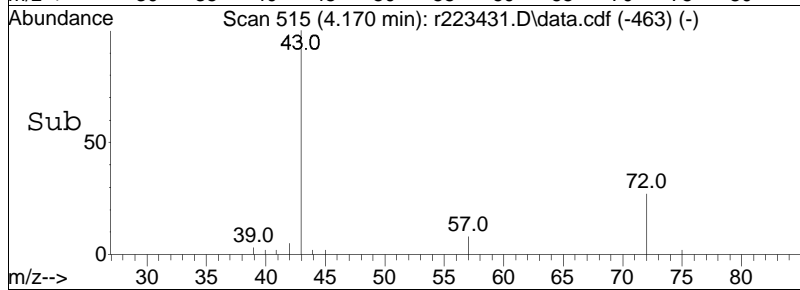
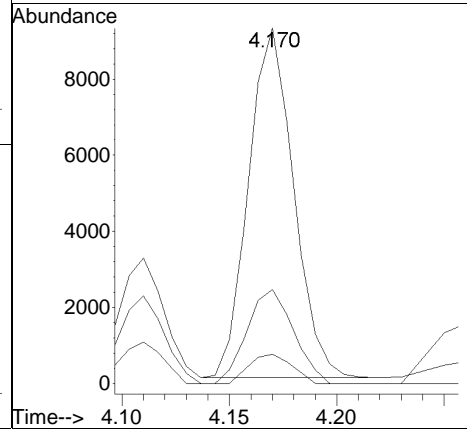
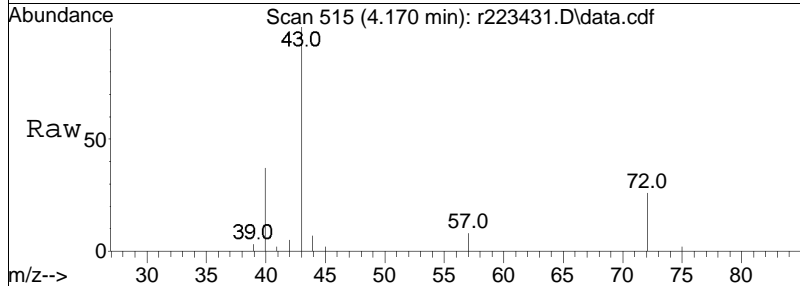
Tgt Ion	Ratio	Lower	Upper
101	100		
85	38.5	28.6	43.0
151	71.7	64.6	97.0

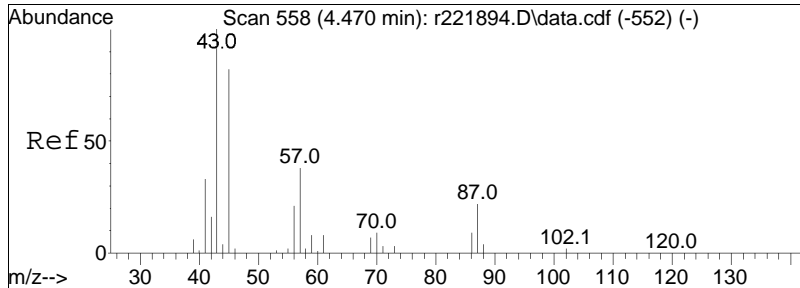




#36
 2-butanone
 Concen: 0.38 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

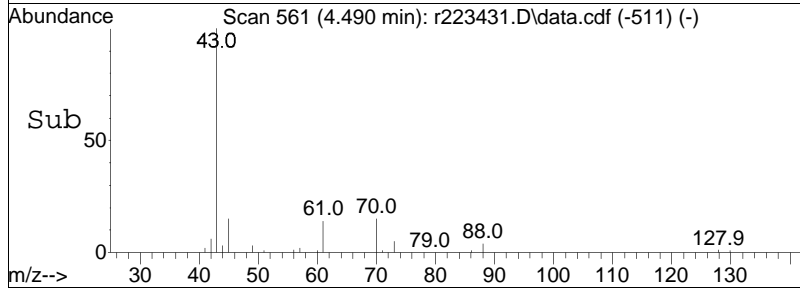
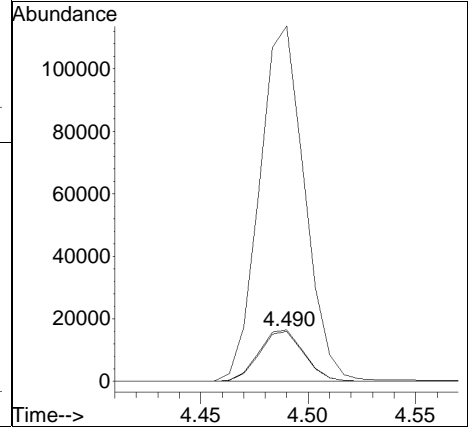
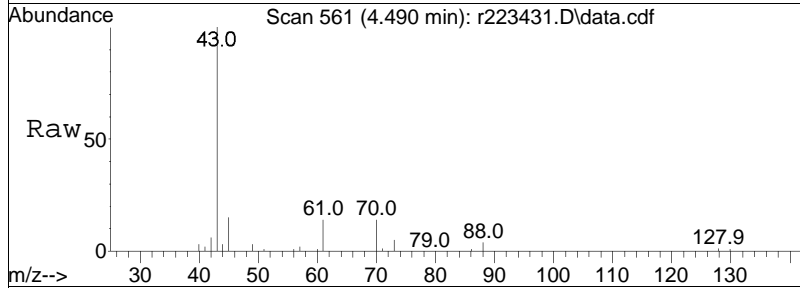
Tgt Ion:	43	Resp:	13408
Ion Ratio	Lower	Upper	
43	100		
72	26.4	23.0	34.6
57	8.2	6.3	9.5

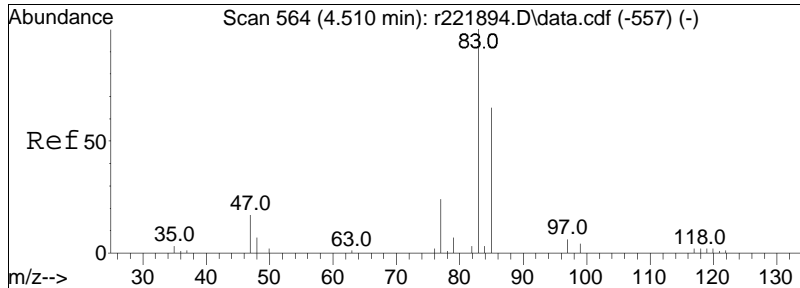




#38
 Ethyl Acetate
 Concen: 4.20 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

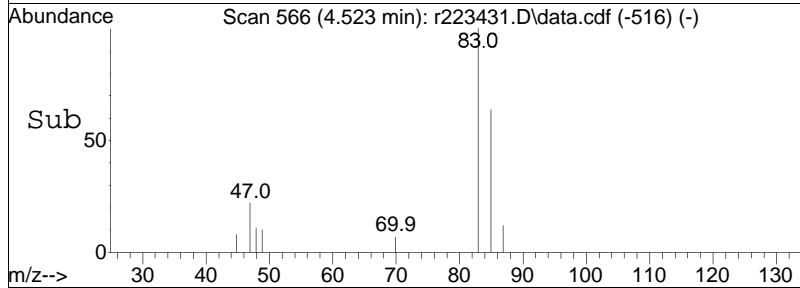
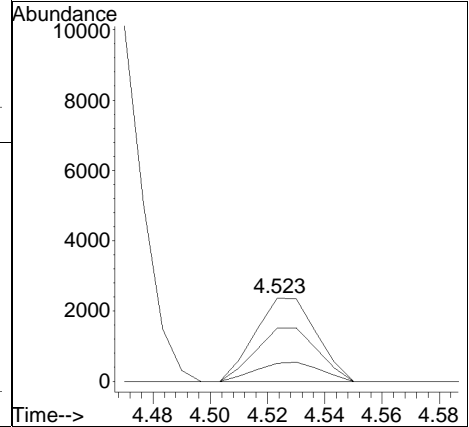
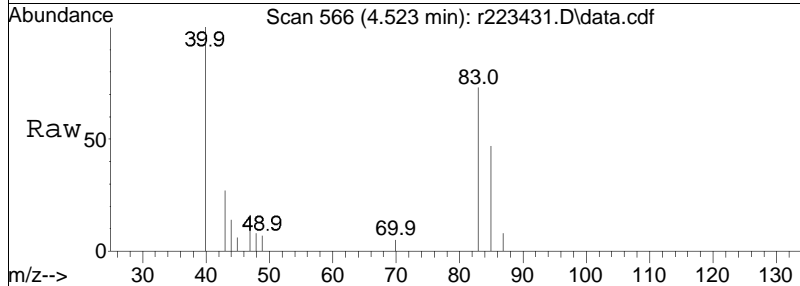
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
70	103.2	91.7	137.5
43	711.8	971.0	1456.6#

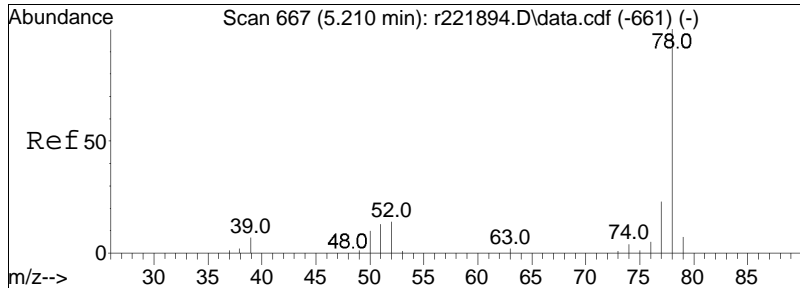




#39
 chloroform
 Concen: 0.14 ppbV
 RT: 4.523 min Scan# 566
 Delta R.T. 0.013 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

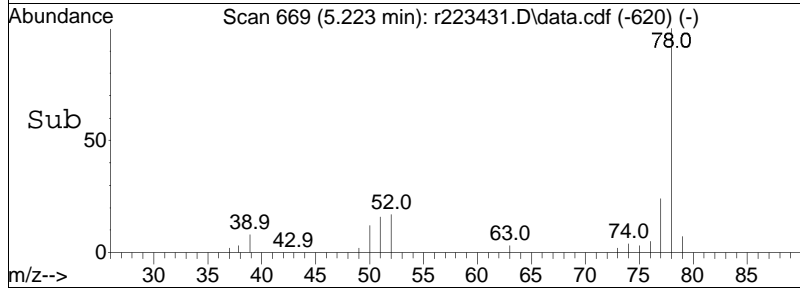
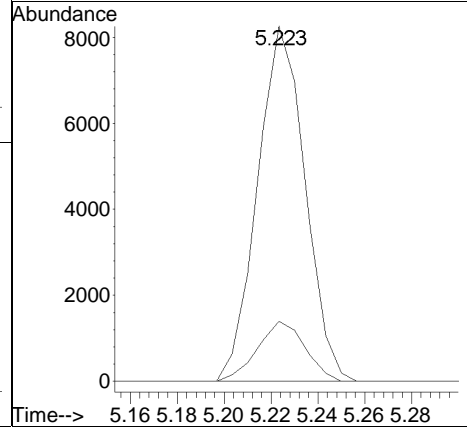
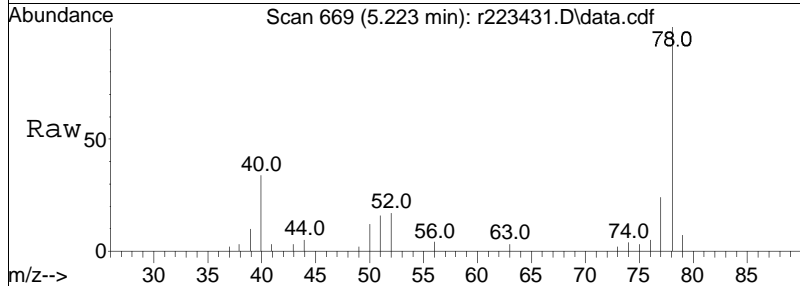
Tgt Ion:	83	Resp:	3527
Ion Ratio	100	Lower	Upper
83	100		
85	63.9	52.6	79.0
47	21.7	15.1	22.7

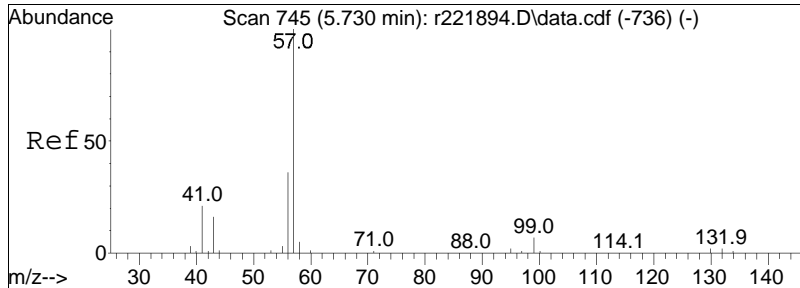




#50
 benzene
 Concen: 0.26 ppbV
 RT: 5.223 min Scan# 669
 Delta R.T. 0.013 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

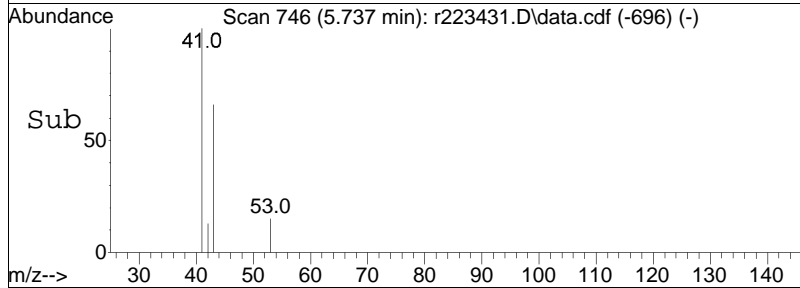
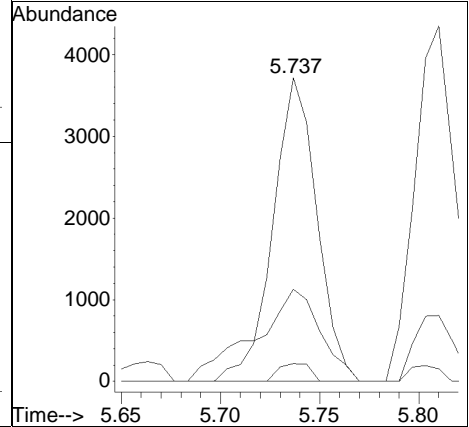
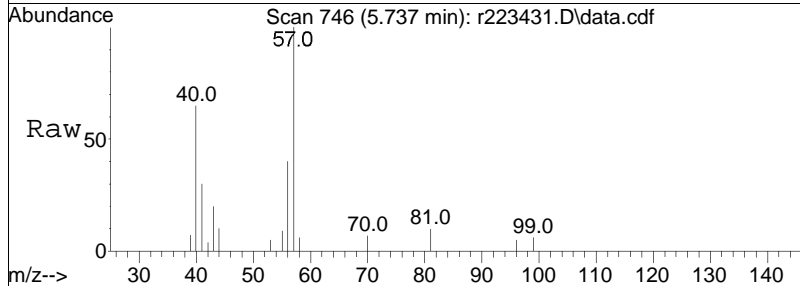
Tgt Ion	Resp	Lower	Upper
78	11650		
52	16.9	11.3	16.9

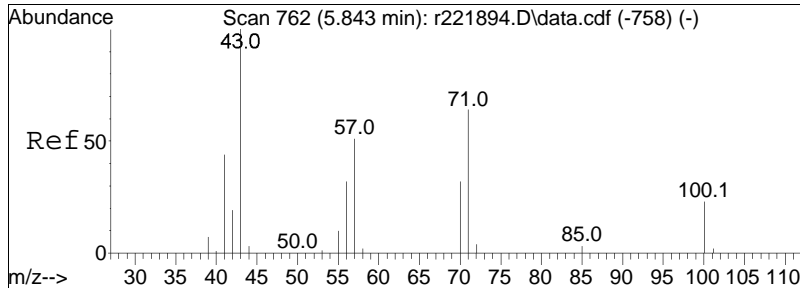




#60
 2,2,4-trimethylpentane
 Concen: 0.08 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

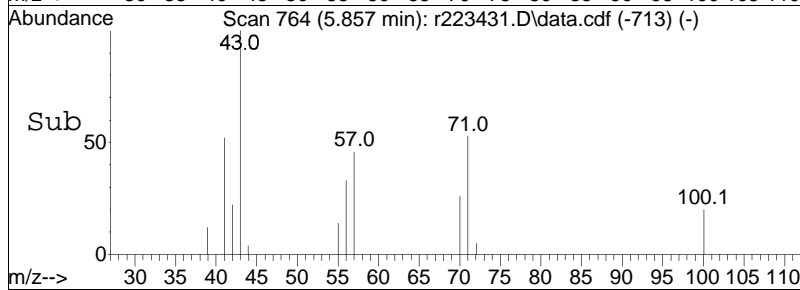
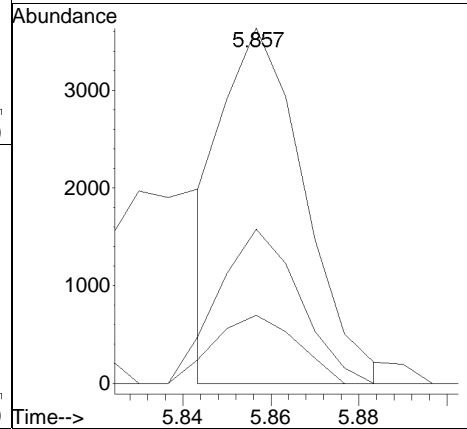
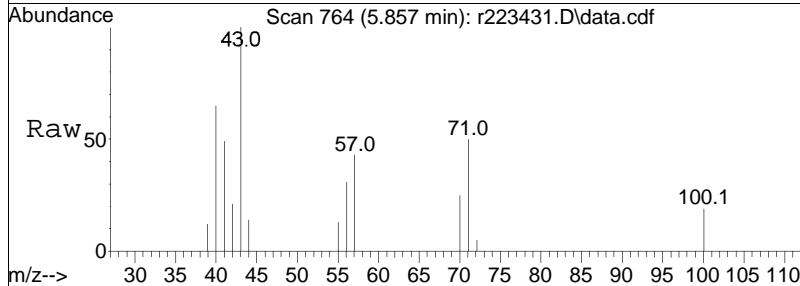
Tgt Ion	Resp	Lower	Upper
57	100		
99	5.8	5.7	8.5
41	30.3	16.9	25.3#

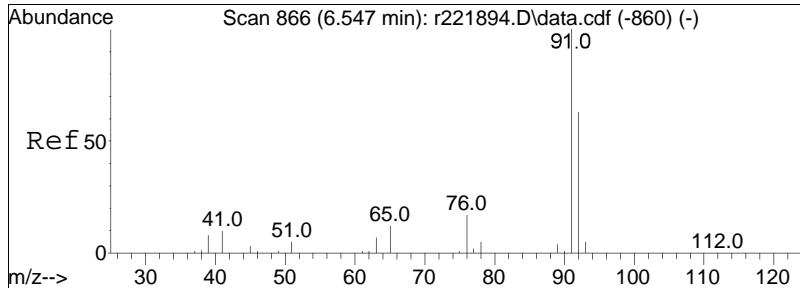




#62
 heptane
 Concen: 0.17 ppbV m
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

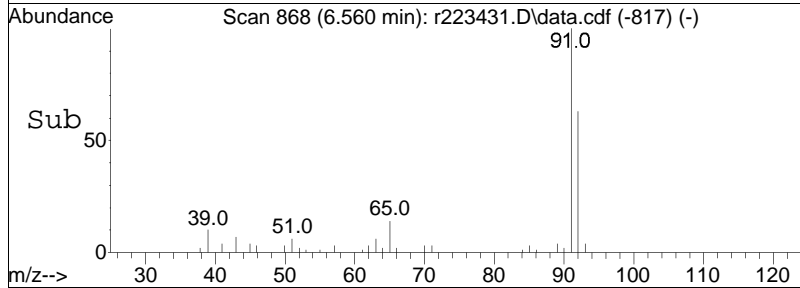
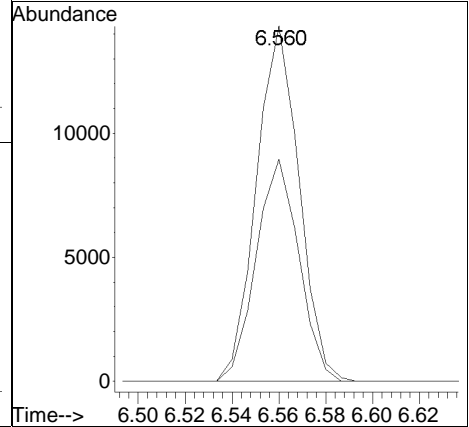
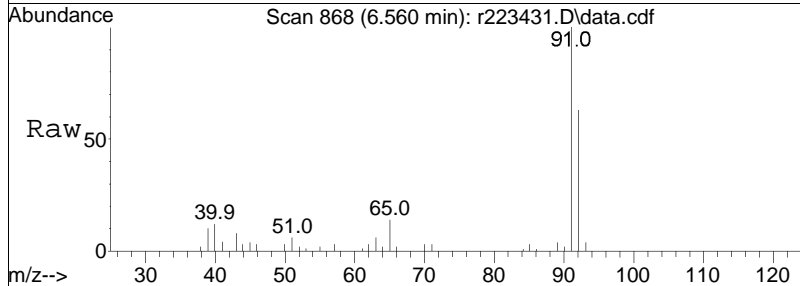
Tgt Ion:	43	Resp:	4671
Ion Ratio	Lower	Upper	
43	100		
57	43.4	40.4	60.6
100	19.2	19.0	28.6

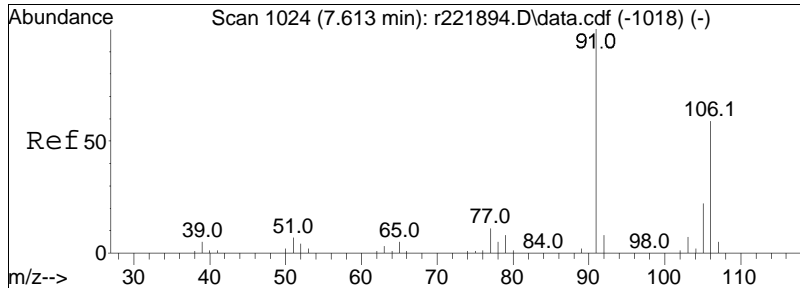




#68
 toluene
 Concen: 0.24 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

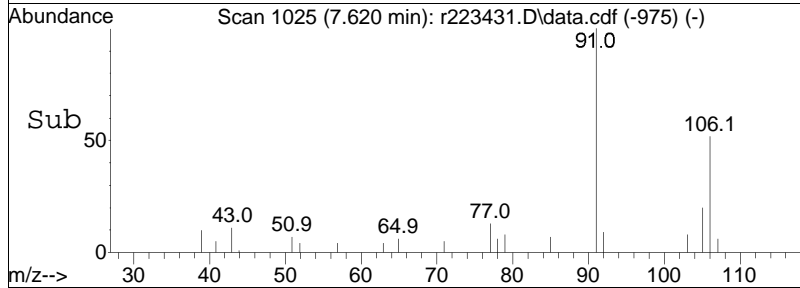
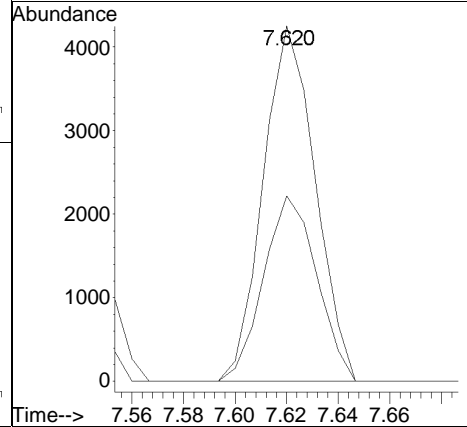
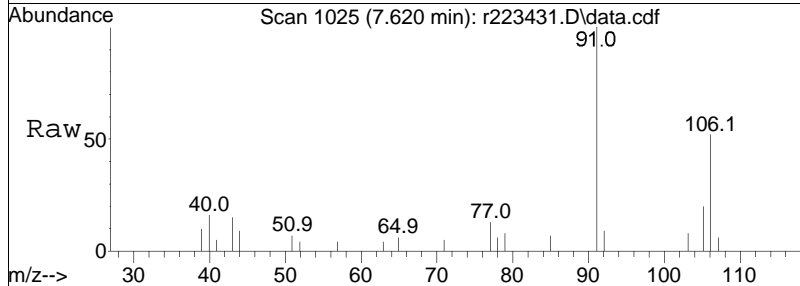
Tgt Ion:	91	Resp:	18124
Ion Ratio	Lower	Upper	
91	100		
92	62.5	50.7	76.1





#83
 m+p-xylene
 Concen: 0.09 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223431.D
 Acq: 28 Mar 2024 11:18 PM

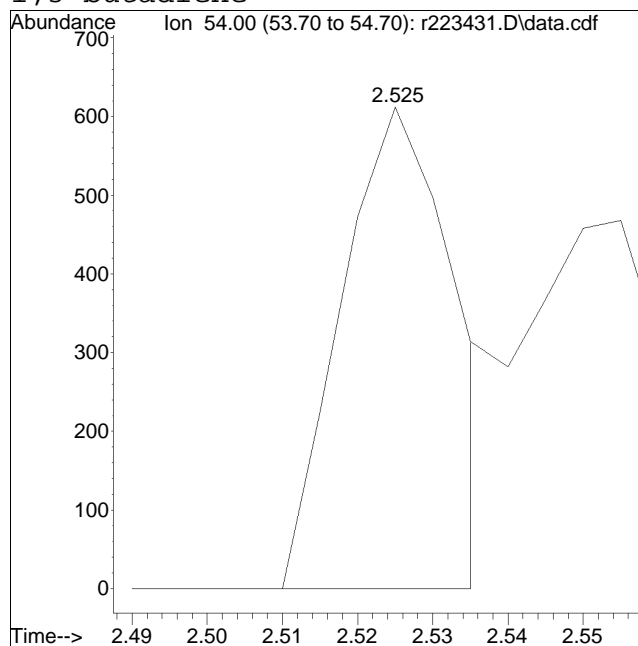
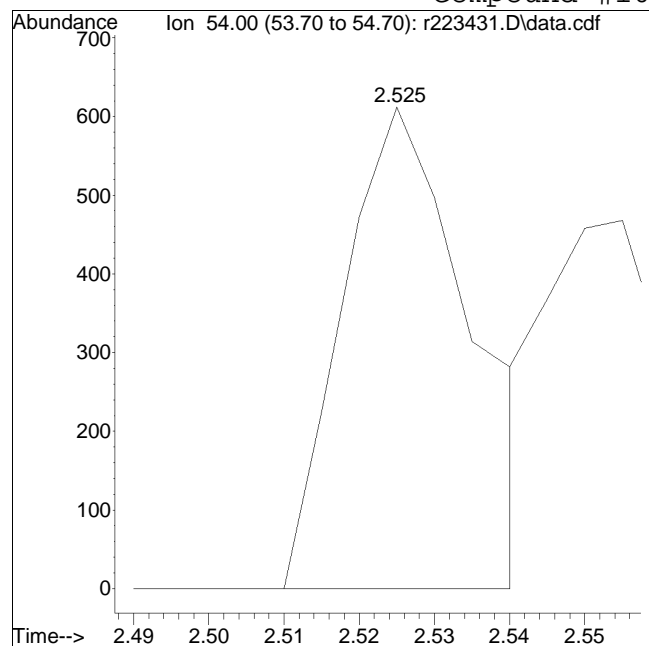
Tgt Ion: 91 Resp: 5968
 Ion Ratio Lower Upper
 91 100
 106 52.2 47.4 71.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223431.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 8 Instrument :
Sample : L2414212-06,3,250,250 Quant Date : 3/29/2024 7:44 am

Compound #10: 1,3-butadiene



Original Peak Response = 721

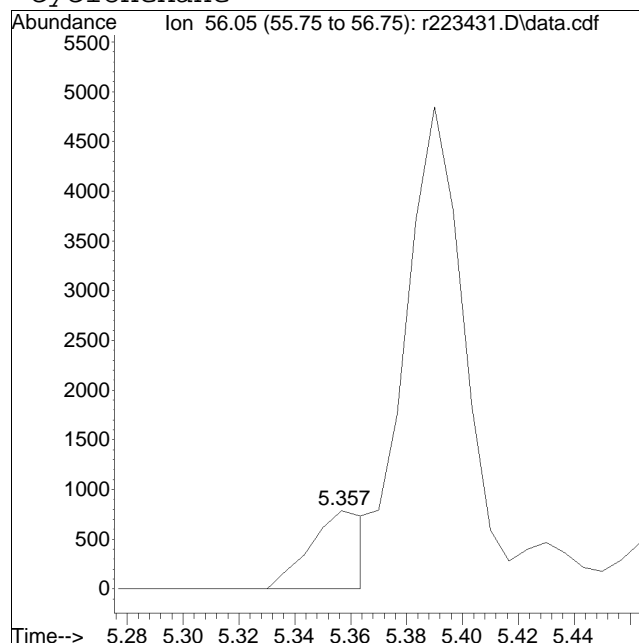
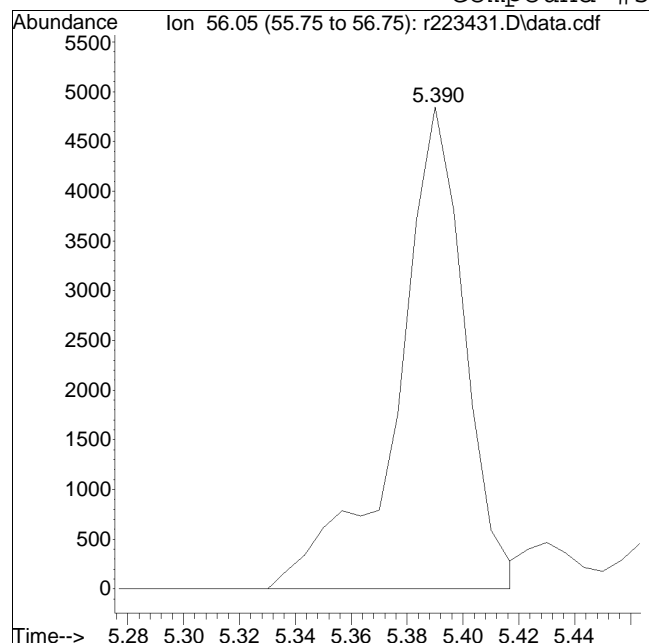
Manual Peak Response = 636 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223431.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 8 Instrument :
Sample : L2414212-06,3,250,250 Quant Date : 3/29/2024 7:44 am

Compound #53: cyclohexane



Original Peak Response = 8122

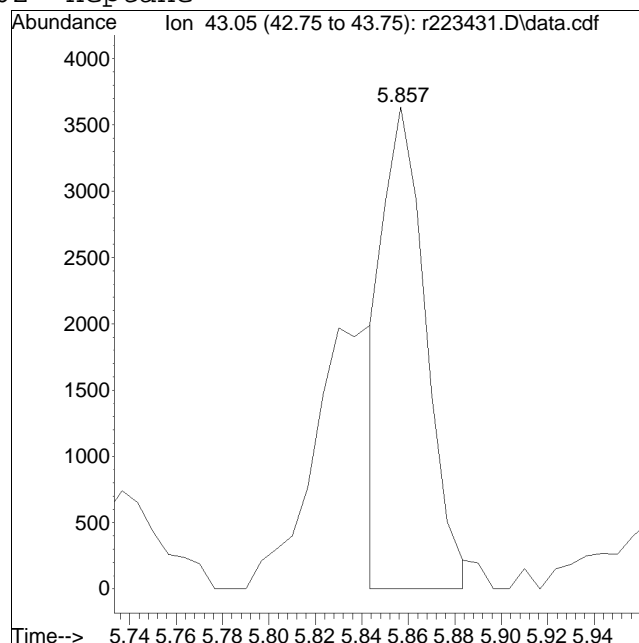
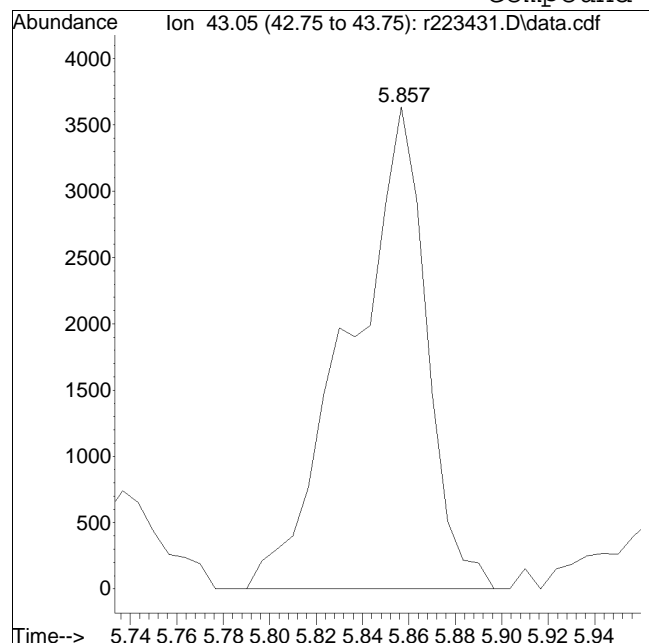
Manual Peak Response = 1064 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223431.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 8 Instrument :
Sample : L2414212-06,3,250,250 Quant Date : 3/29/2024 7:44 am

Compound #62: heptane



Original Peak Response = 8355

Manual Peak Response = 4671 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223432.D
 Acq On : 28 Mar 2024 11:50 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-07,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:44:32 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	212272	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	95.42%		
43) 1,4-difluorobenzene	5.390	114	581249	10.000	ppbV	0.01
Standard Area =	633782		Recovery =	91.71%		
67) chlorobenzene-D5	7.353	54	86960	10.000	ppbV	# 0.00
Standard Area =	85965		Recovery =	101.16%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.220	85	8235	0.482	ppbV	99
6) chloromethane	2.325	50	5595	0.603	ppbV	93
7) Freon-114	2.385		0	N.D.		
10) 1,3-butadiene	2.525		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	503082	147.553	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.989	43	1568778	229.710	ppbV	98
21) trichlorofluoromethane	3.079	101	2317	0.254	ppbV	96
22) isopropyl alcohol	3.100	45	119859	10.586	ppbV	100
27) tertiary butyl alcohol	3.400		0	N.D.		
28) methylene chloride	3.435	49	2720	0.162	ppbV	83
29) 3-chloropropene	3.460		0	N.D.		
30) carbon disulfide	3.580		0	N.D.		
31) Freon 113	3.560	101	1719	0.067	ppbV	89
32) trans-1,2-dichloroethene	3.977		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	3.983		0	N.D.		
36) 2-butanone	4.170	43	10058	0.292	ppbV	95
38) Ethyl Acetate	4.490	61	15188	2.832	ppbV #	12
39) chloroform	4.530		0	N.D.		
40) Tetrahydrofuran	4.723		0	N.D.		
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	0.000		0	N.D.	d	
50) benzene	5.223	78	9756	0.225	ppbV	95
53) cyclohexane	5.357	56	1794M6	0.076	ppbV	
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223432.D
 Acq On : 28 Mar 2024 11:50 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-07,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:44:32 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

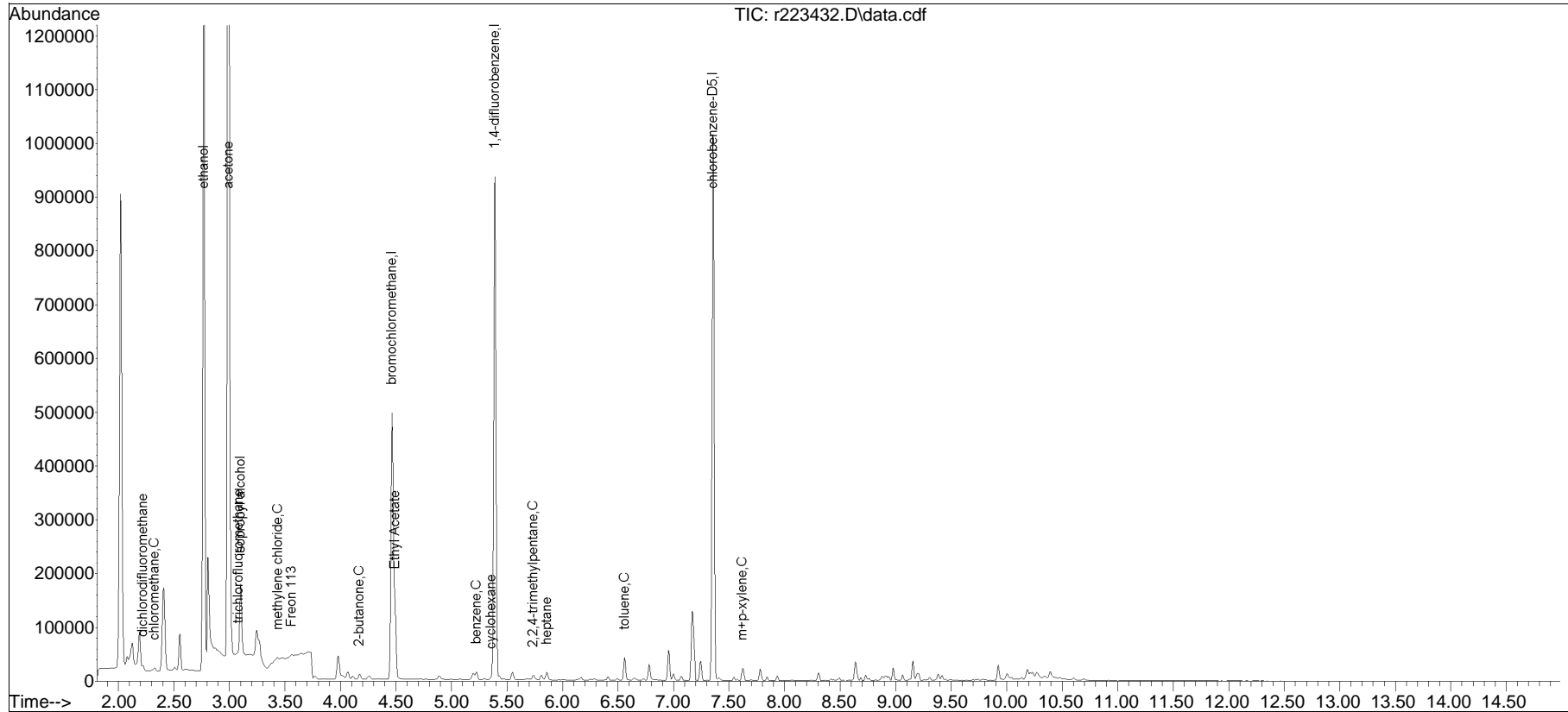
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	5994	0.091	ppbV #	85
62) heptane	5.857	43	4562M6	0.176	ppbV	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	21459	0.296	ppbV	100
72) 2-hexanone	0.000		0		N.D.	d
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.380		0		N.D.	
81) ethylbenzene	7.547		0		N.D.	
83) m+p-xylene	7.620	91	8418	0.123	ppbV	92
84) bromoform	0.000		0		N.D.	
85) styrene	7.793		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	7.840		0		N.D.	
96) 4-ethyl toluene	8.420		0		N.D.	
97) 1,3,5-trimethylbenzene	8.480		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	8.803		0		N.D.	
103) 1,4-dichlorobenzene	8.803		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

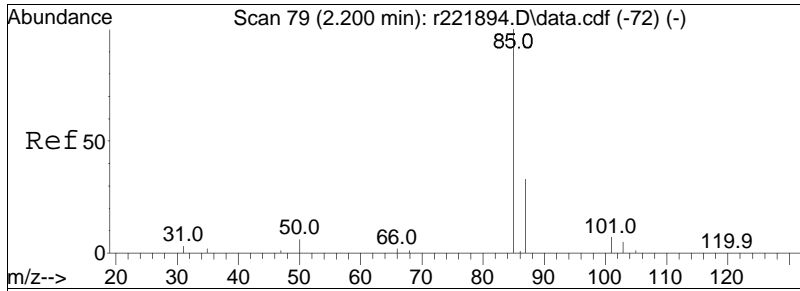
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223432.D
Acq On : 28 Mar 2024 11:50 PM
Operator : AIRLAB22:JMB
Sample : L2414212-07,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

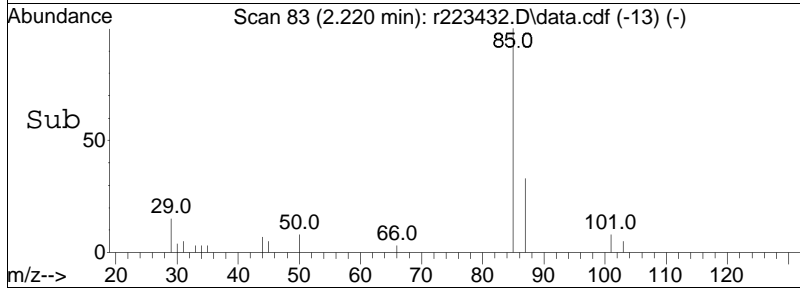
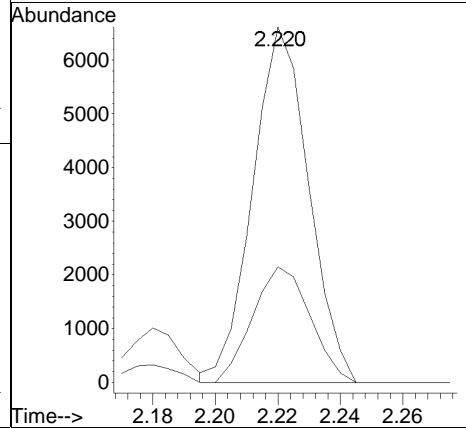
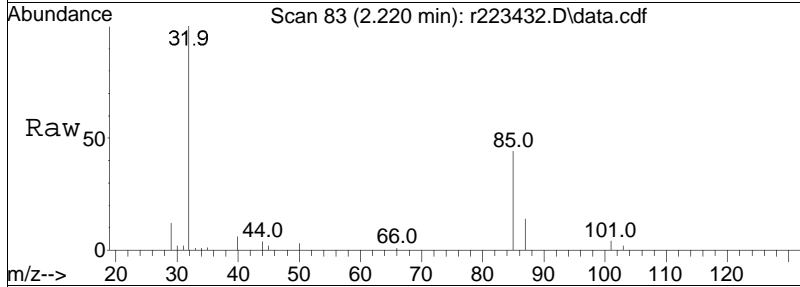
Quant Time: Mar 29 07:44:32 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

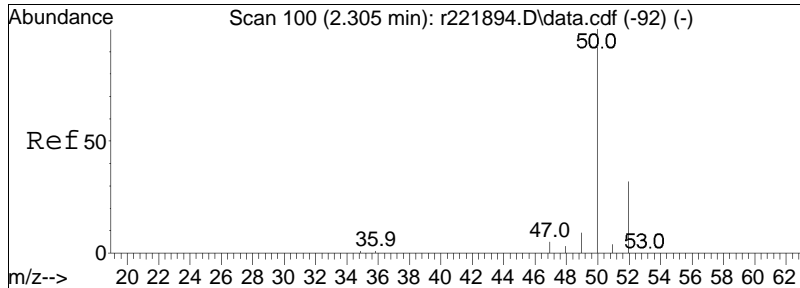




#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 2.220 min Scan# 83
Delta R.T. 0.020 min
Lab File: r223432.D
Acq: 28 Mar 2024 11:50 PM

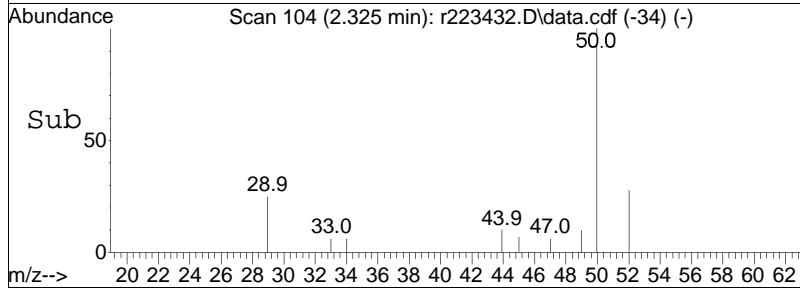
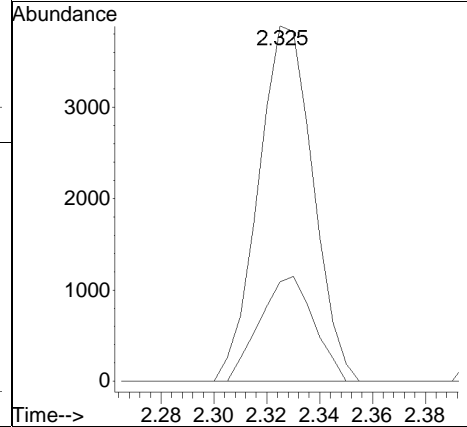
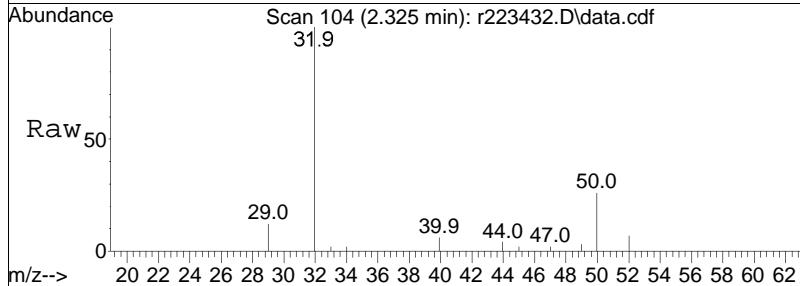
Tgt Ion: 85 Resp: 8235
Ion Ratio Lower Upper
85 100
87 32.5 26.3 39.5

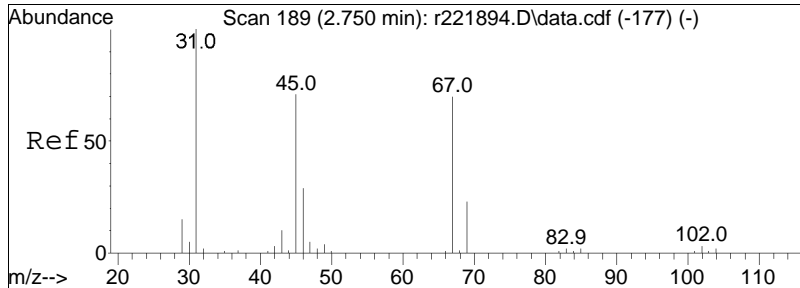




#6
 chloromethane
 Concen: 0.60 ppbV
 RT: 2.325 min Scan# 104
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

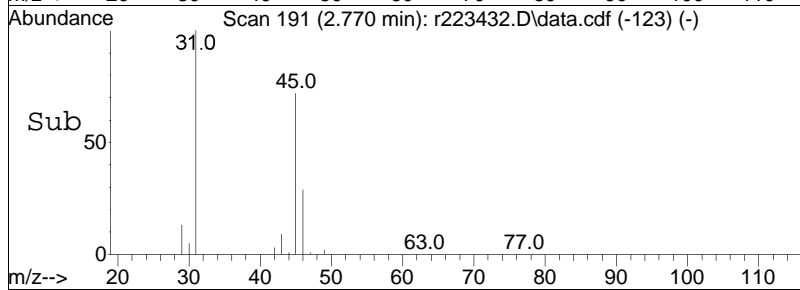
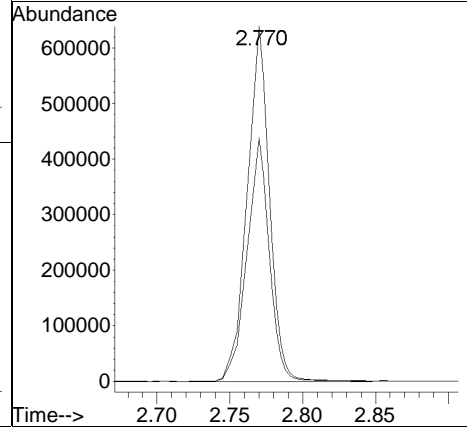
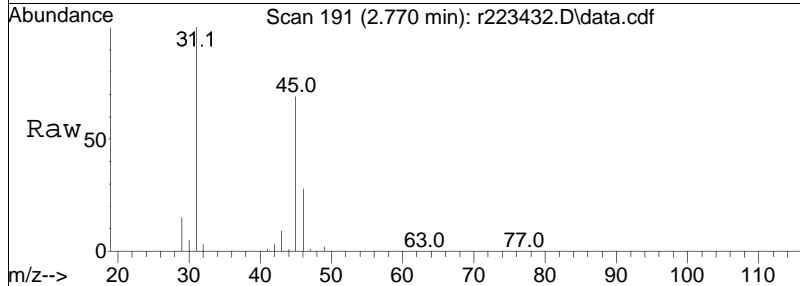
Tgt Ion	Resp	Lower	Upper
50	100		
52	28.0	25.5	38.3

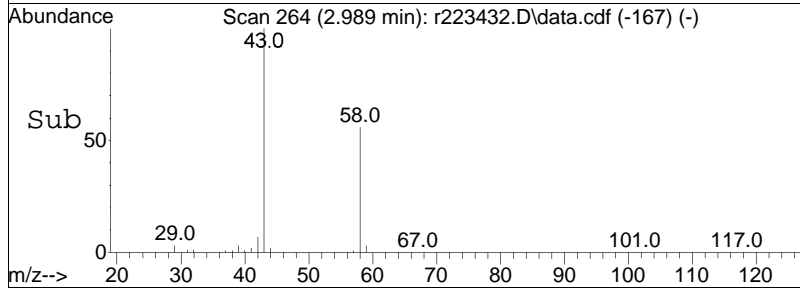
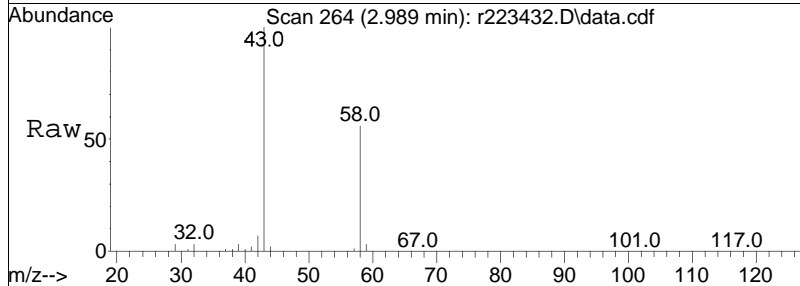
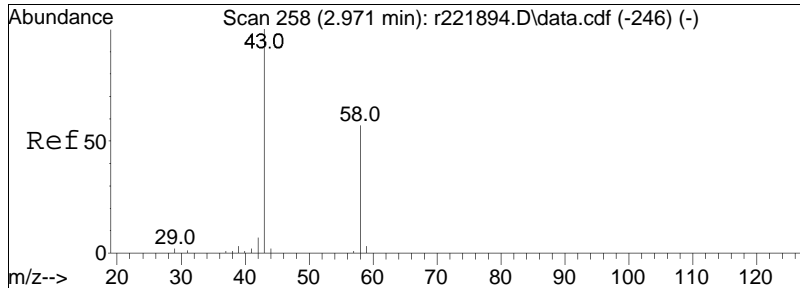




#15
 ethanol
 Concen: 147.55 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

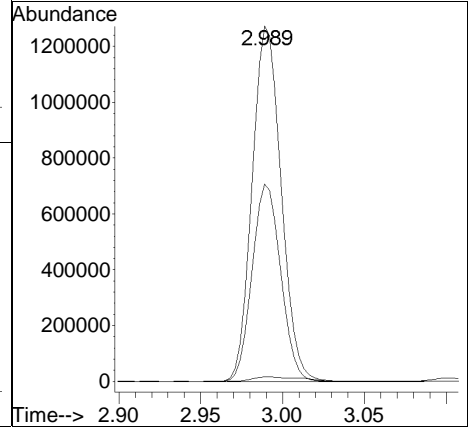
Tgt Ion	Resp	Lower	Upper
31	100		
45	68.5	56.6	84.8

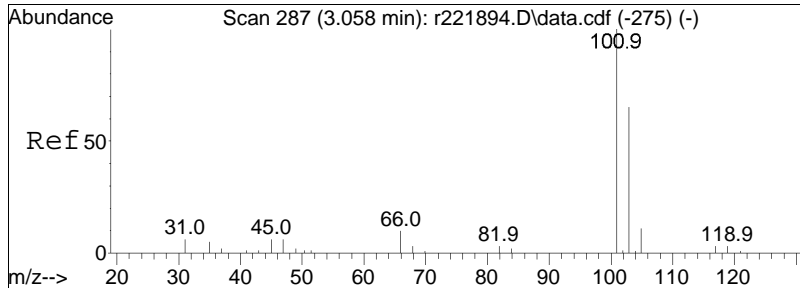




#19
 acetone
 Concen: 229.71 ppbV
 RT: 2.989 min Scan# 264
 Delta R.T. 0.018 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

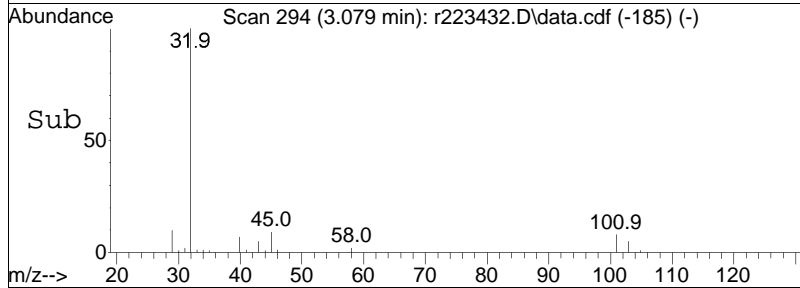
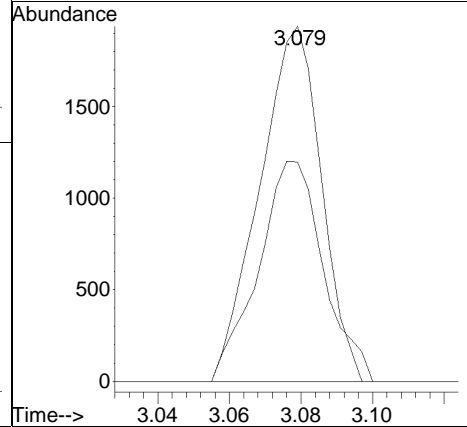
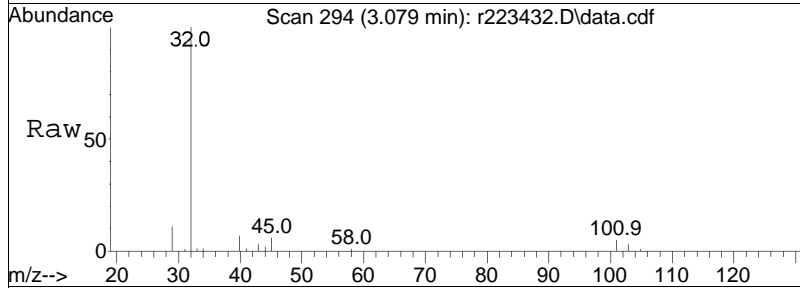
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
58	55.5	45.5	68.3
57	1.3	1.0	1.6

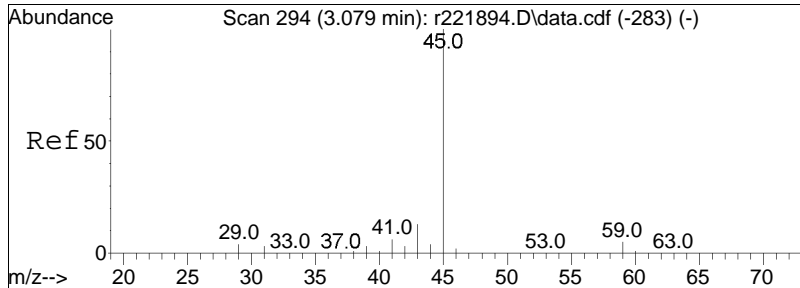




#21
trichlorofluoromethane
Concen: 0.25 ppbV
RT: 3.079 min Scan# 294
Delta R.T. 0.021 min
Lab File: r223432.D
Acq: 28 Mar 2024 11:50 PM

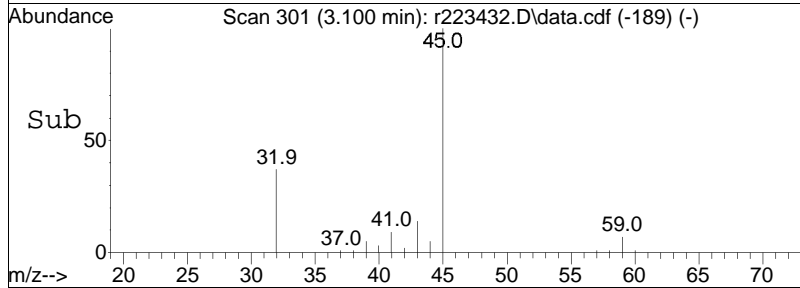
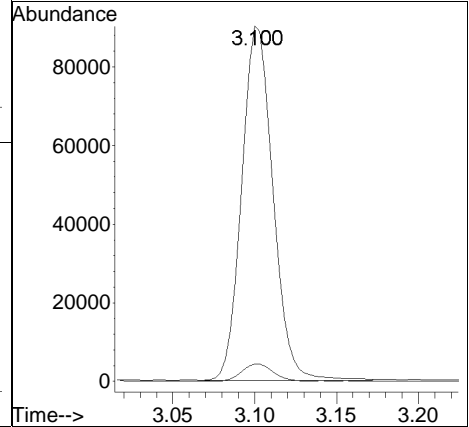
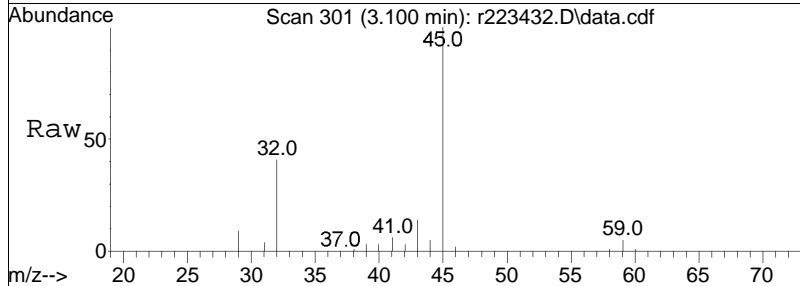
Tgt Ion	Resp	Lower	Upper
101	2317		
101	100		
103	61.8	52.2	78.4

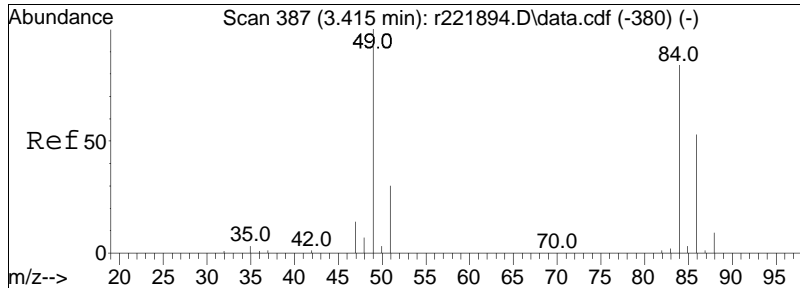




#22
 isopropyl alcohol
 Concen: 10.59 ppbV
 RT: 3.100 min Scan# 301
 Delta R.T. 0.021 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

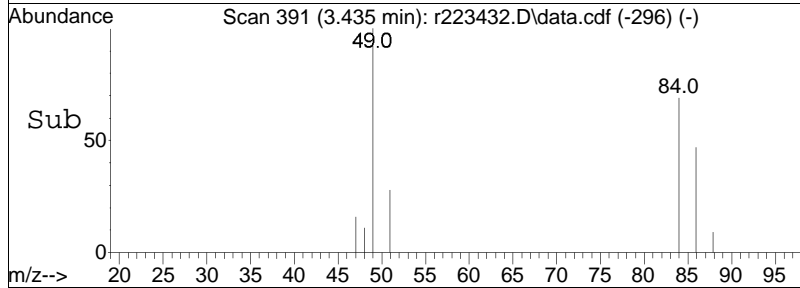
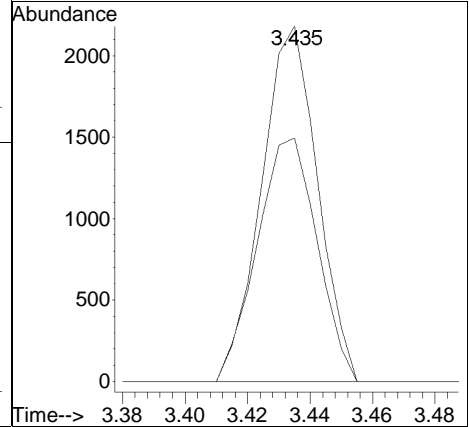
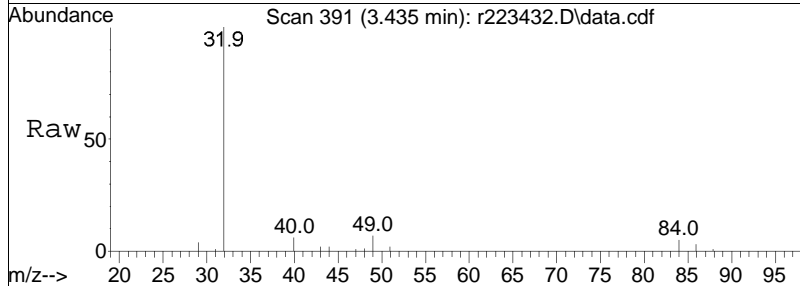
Tgt Ion:	45	59	Resp:	119859
Ion Ratio	100	4.9	Lower	Upper
			4.0	6.0

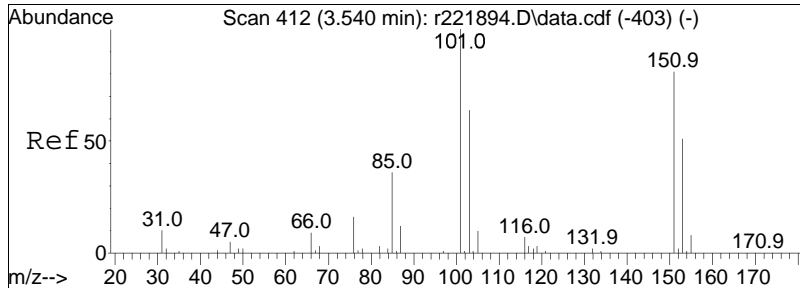




#28
 methylene chloride
 Concen: 0.16 ppbV
 RT: 3.435 min Scan# 391
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

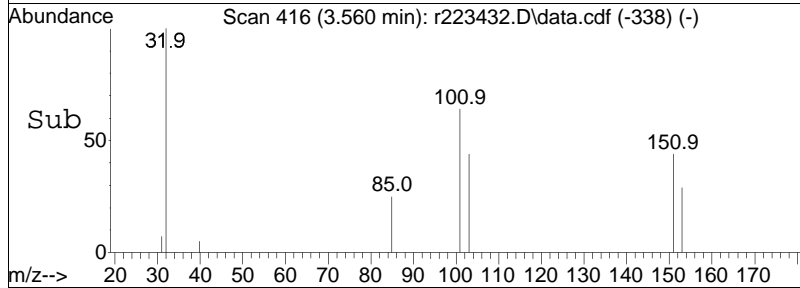
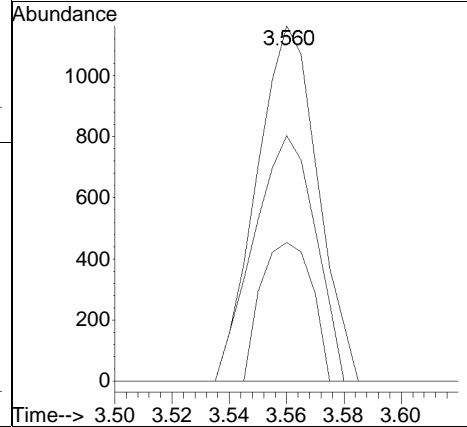
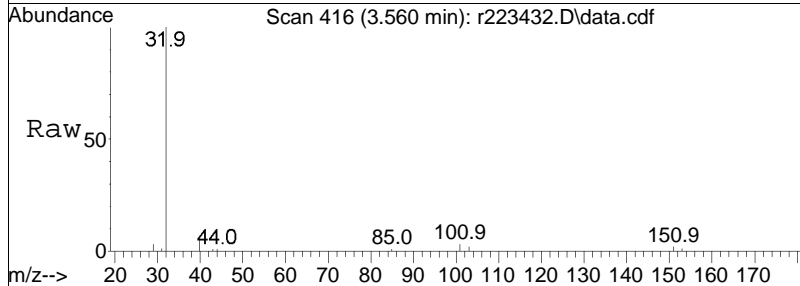
Tgt Ion:	49	84	Resp:	2720
Ion Ratio	100	68.5	Lower	Upper
			67.2	100.8

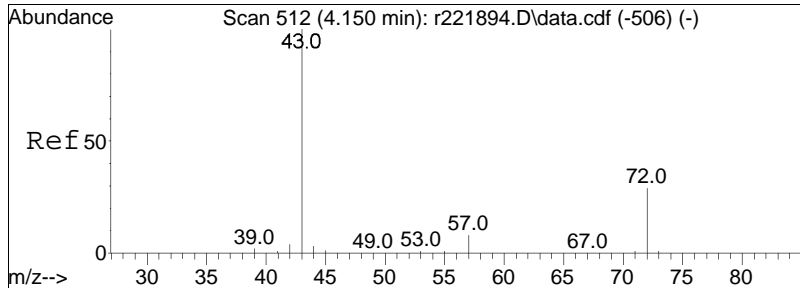




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.560 min Scan# 416
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

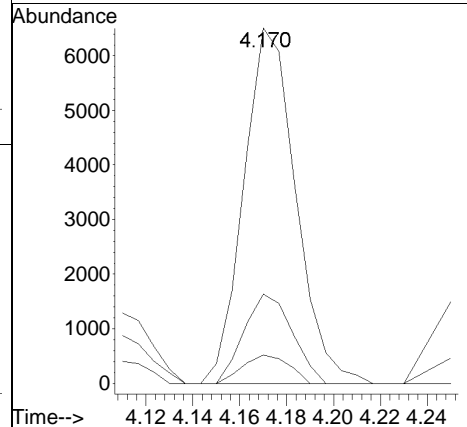
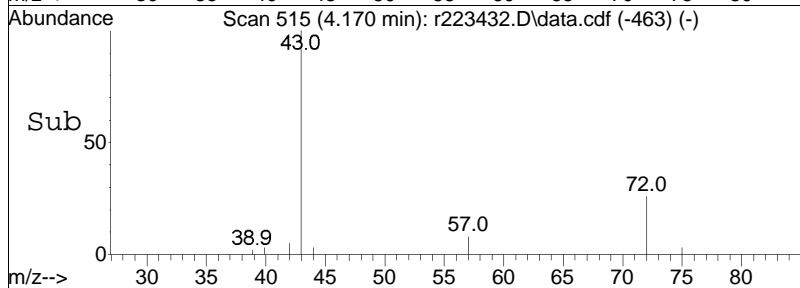
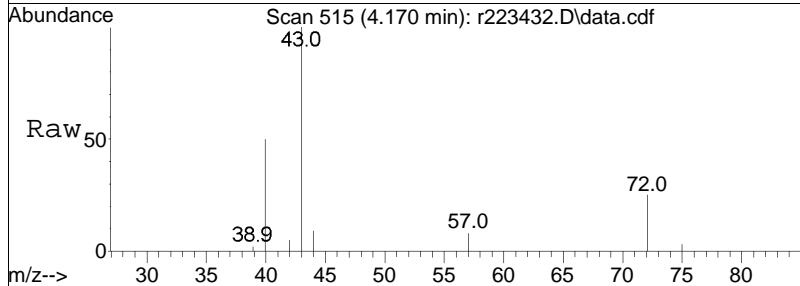
Tgt Ion	Ratio	Lower	Upper
101	100		
85	39.1	28.6	43.0
151	69.2	64.6	97.0

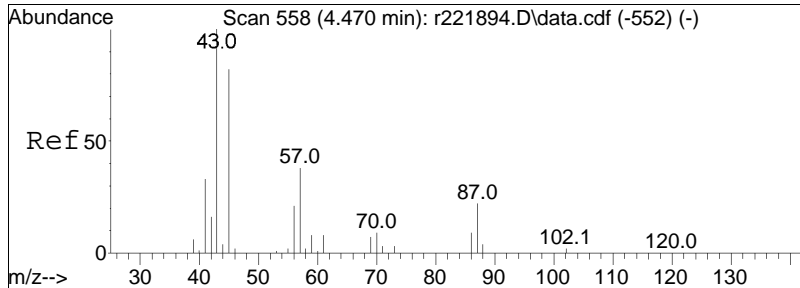




#36
 2-butanone
 Concen: 0.29 ppbV
 RT: 4.170 min Scan# 515
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

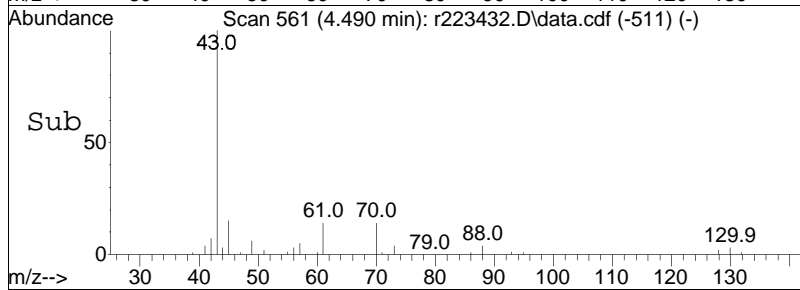
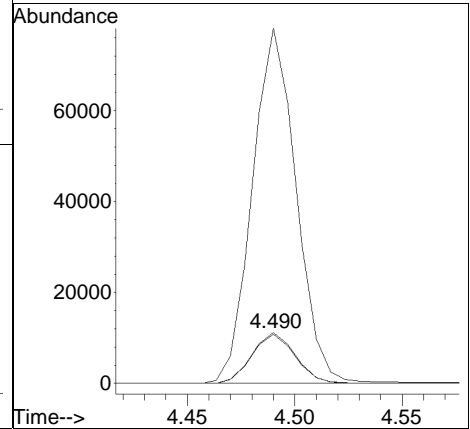
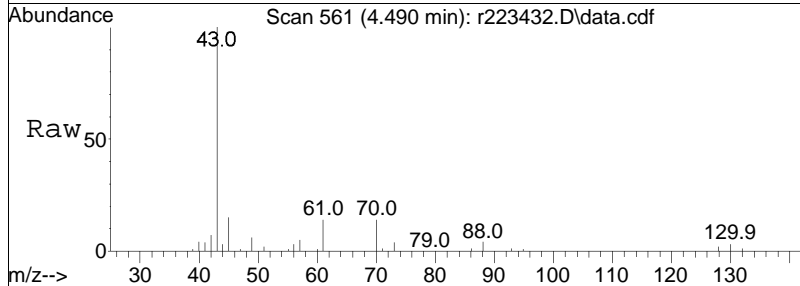
Tgt Ion:	43	72	57	Resp:	10058	Lower	Upper
Ion Ratio	100	25.1	8.0			23.0	34.6
						6.3	9.5

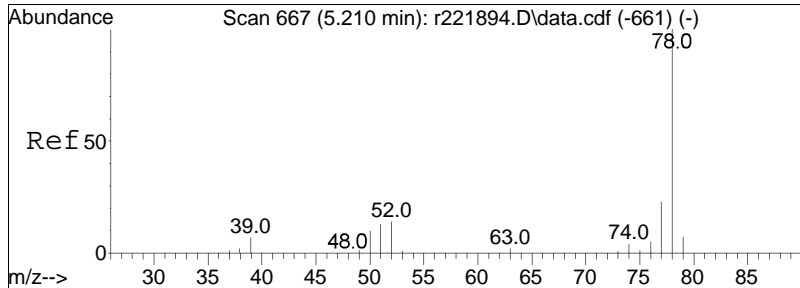




#38
 Ethyl Acetate
 Concen: 2.83 ppbV
 RT: 4.490 min Scan# 561
 Delta R.T. 0.020 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

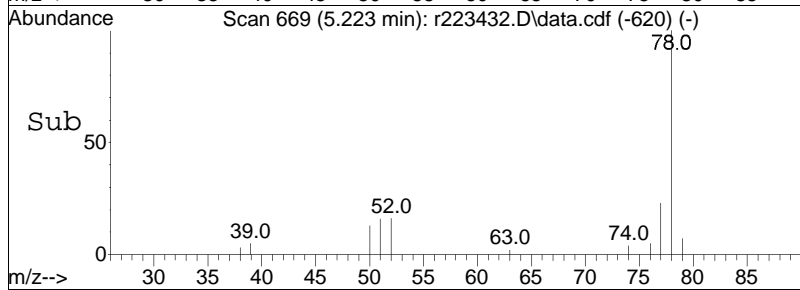
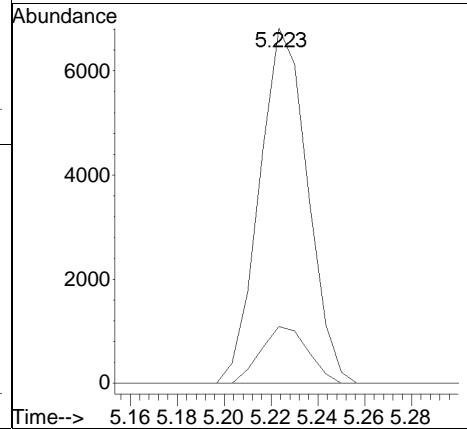
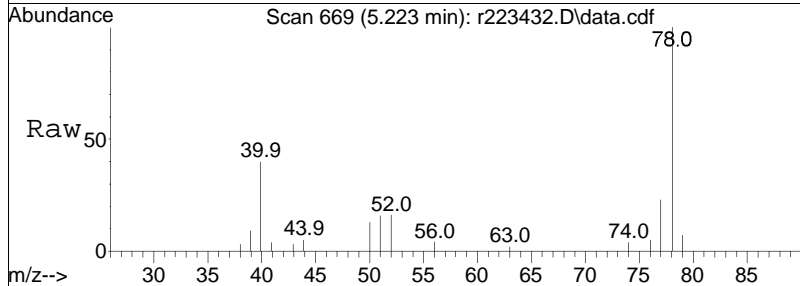
Tgt Ion	Resp	Lower	Upper
61	15188		
Ion Ratio			
61	100		
70	103.5	91.7	137.5
43	722.9	971.0	1456.6#

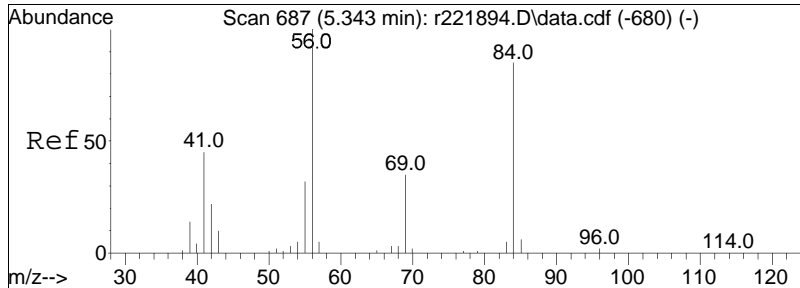




#50
benzene
Concen: 0.23 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223432.D
Acq: 28 Mar 2024 11:50 PM

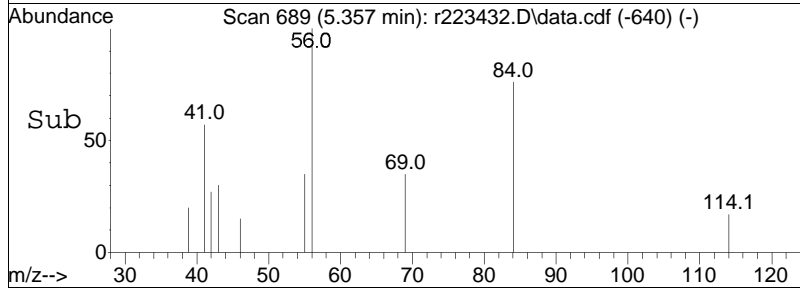
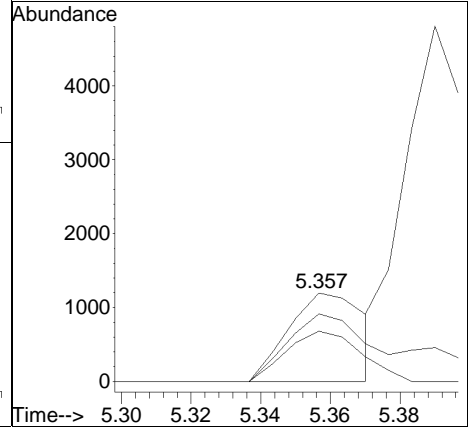
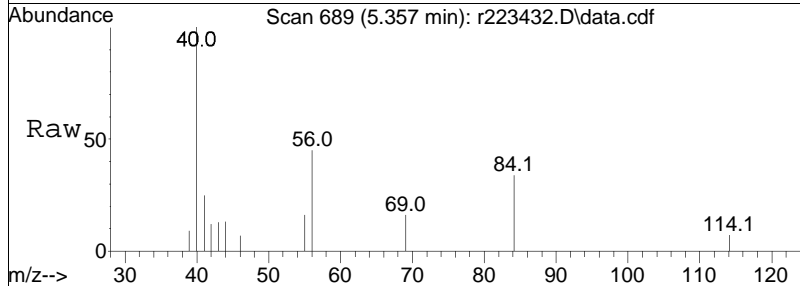
Tgt Ion:	Resp:	Lower	Upper
78	100		
52	16.0	11.3	16.9

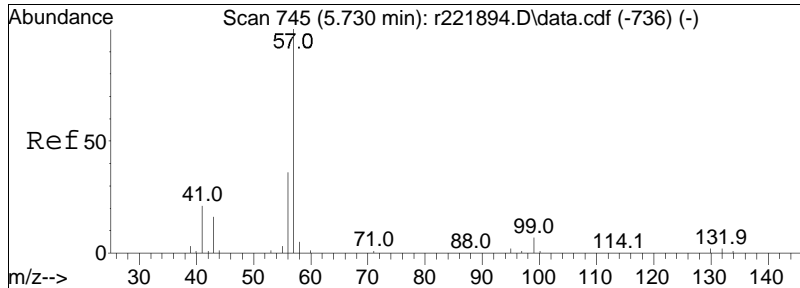




#53
 cyclohexane
 Concen: 0.08 ppbV m
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

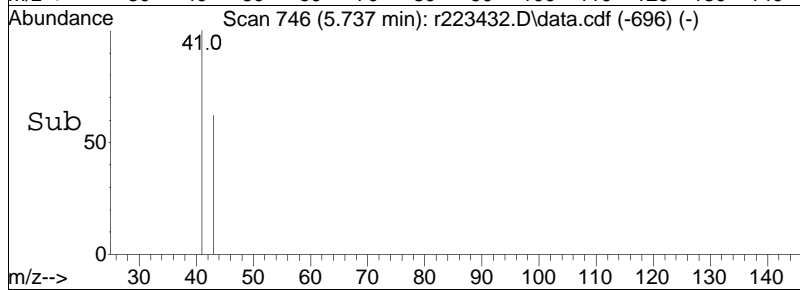
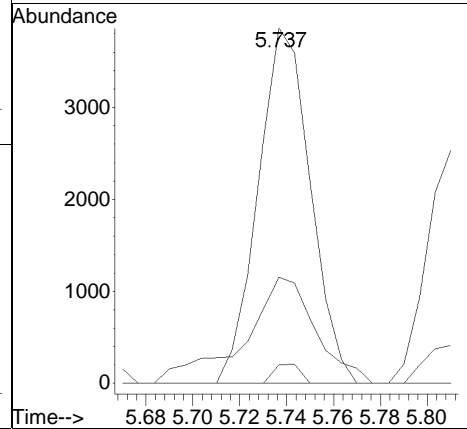
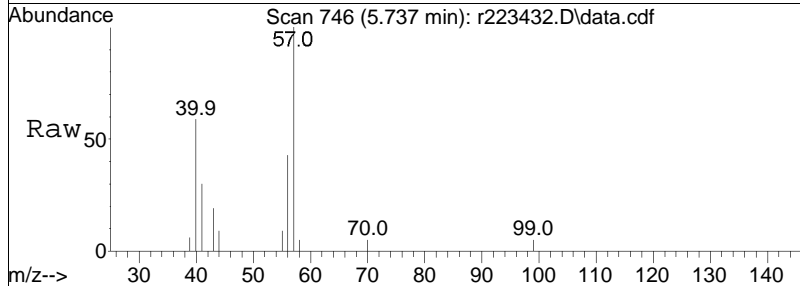
Tgt Ion	Resp	Lower	Upper
56	100		
84	76.4	70.9	106.3
41	56.7	35.8	53.6#

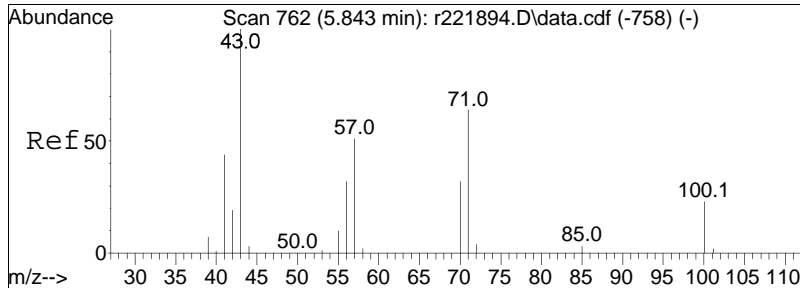




#60
 2,2,4-trimethylpentane
 Concen: 0.09 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

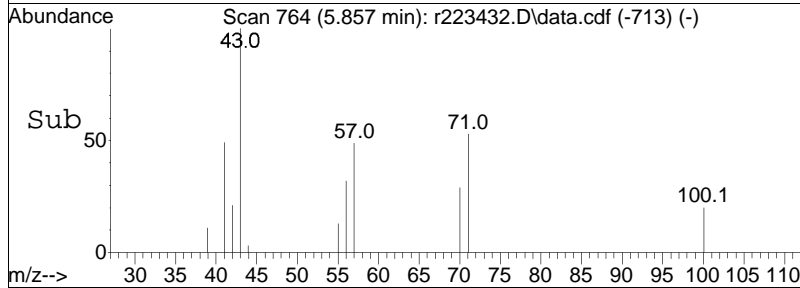
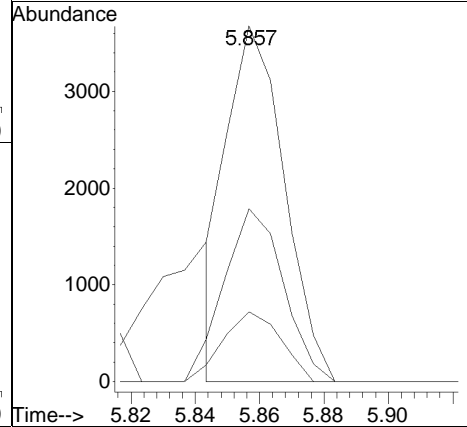
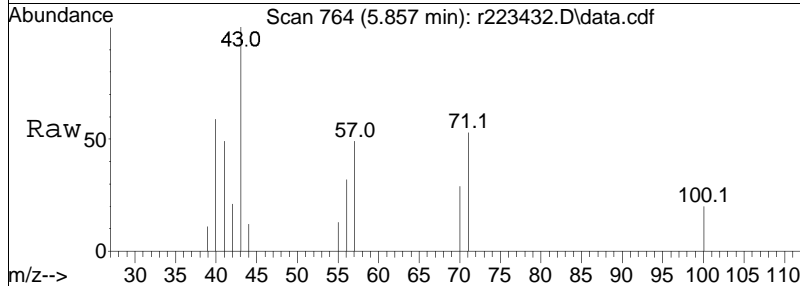
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
99	5.2	5.7	8.5#
41	29.9	16.9	25.3#

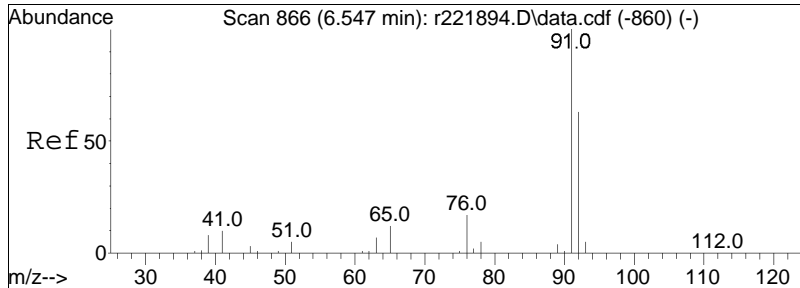




#62
 heptane
 Concen: 0.18 ppbV m
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

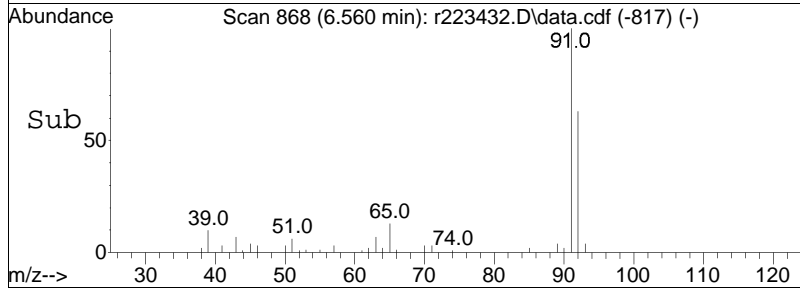
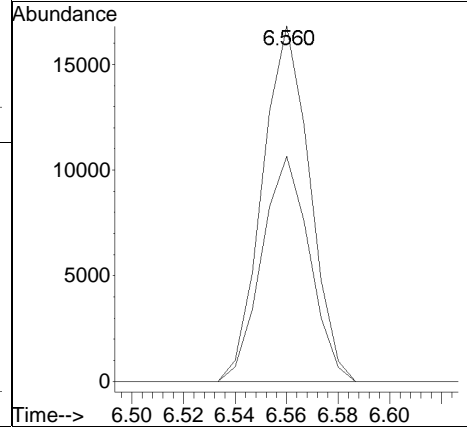
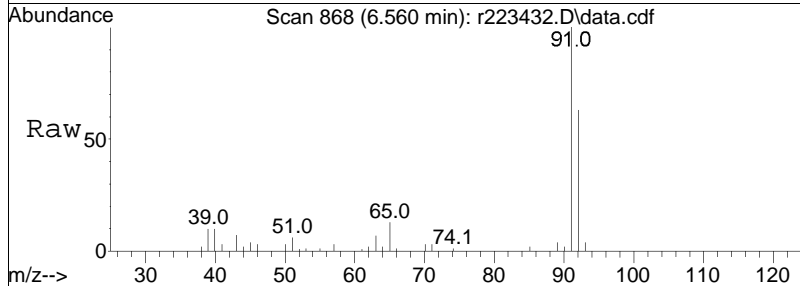
Tgt Ion:	43	Resp:	4562
Ion Ratio	Lower	Upper	
43	100		
57	48.6	40.4	60.6
100	19.6	19.0	28.6

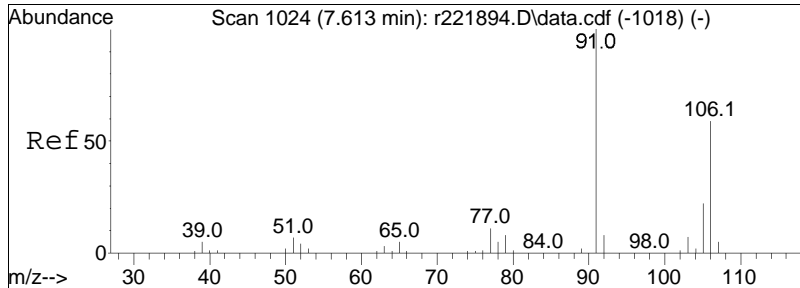




#68
 toluene
 Concen: 0.30 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

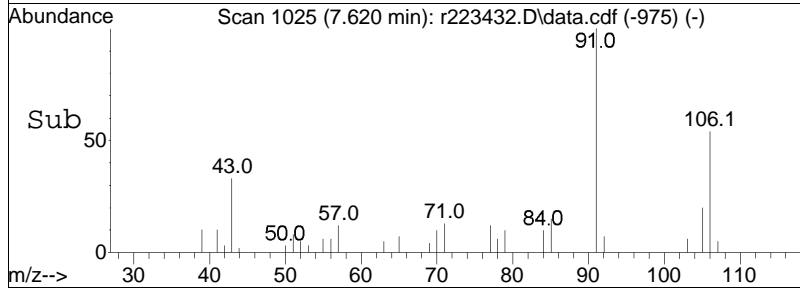
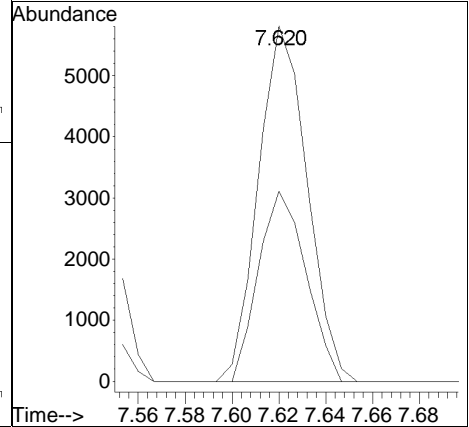
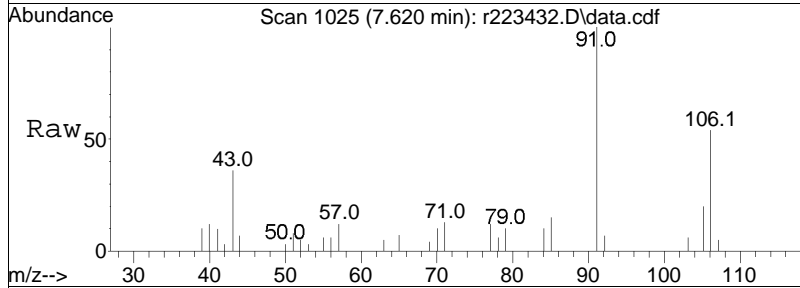
Tgt Ion:	91	Resp:	21459
Ion Ratio	Lower	Upper	
91	100		
92	63.3	50.7	76.1





#83
 m+p-xylene
 Concen: 0.12 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223432.D
 Acq: 28 Mar 2024 11:50 PM

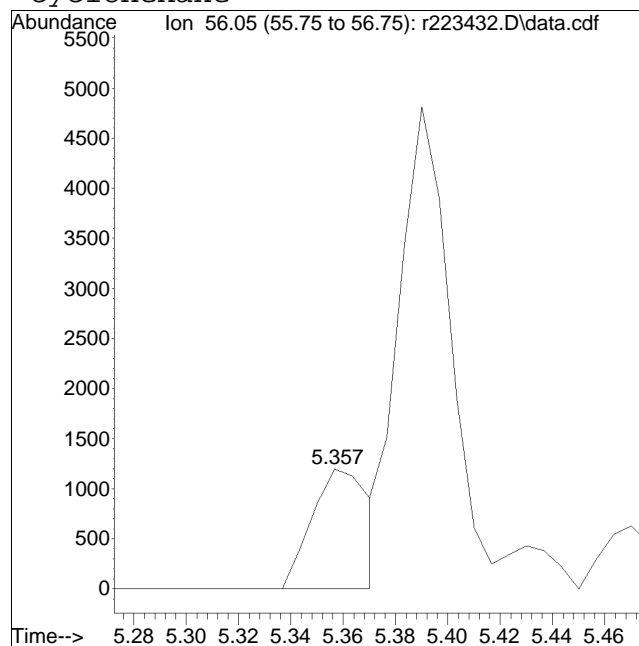
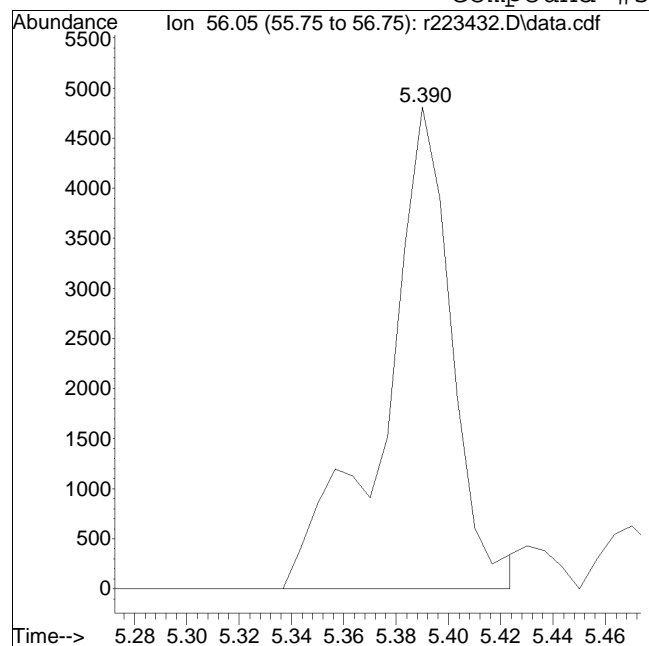
Tgt Ion: 91 Resp: 8418
 Ion Ratio Lower Upper
 91 100
 106 53.5 47.4 71.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223432.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 0 Instrument :
Sample : L2414212-07,3,250,250 Quant Date : 3/29/2024 7:44 am

Compound #53: cyclohexane



Original Peak Response = 8498

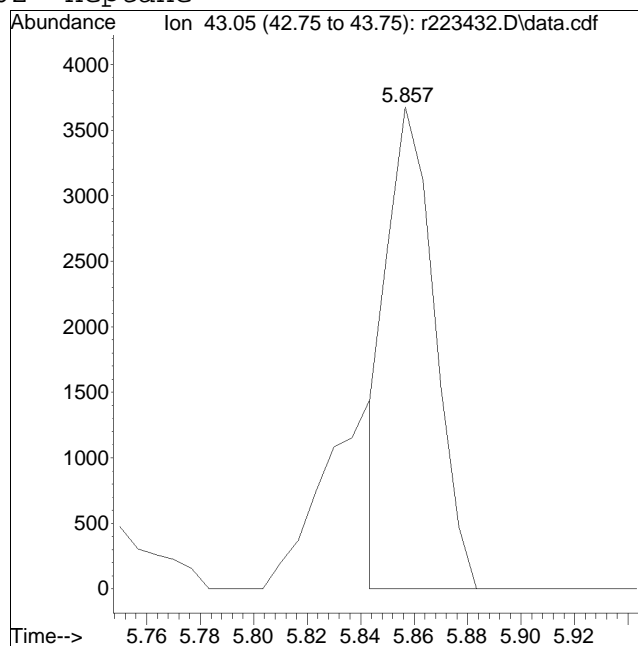
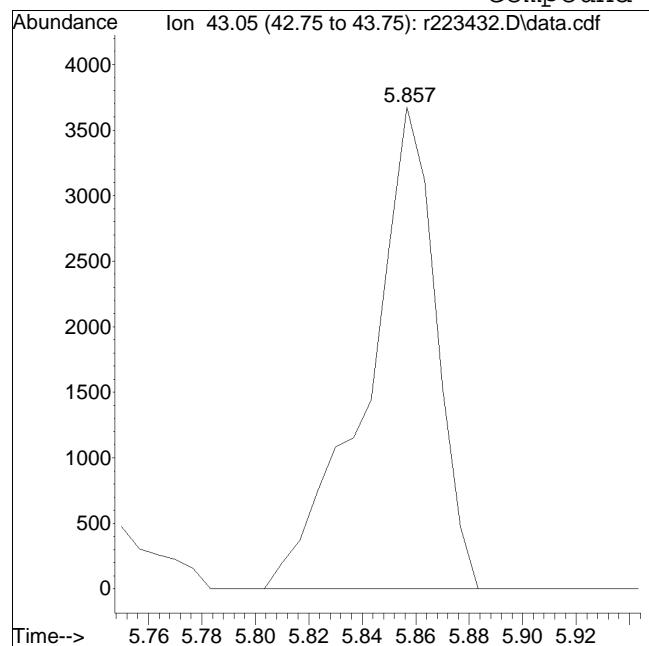
Manual Peak Response = 1794 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223432.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 0 Instrument :
Sample : L2414212-07,3,250,250 Quant Date : 3/29/2024 7:44 am

Compound #62: heptane



Original Peak Response = 6560

Manual Peak Response = 4562 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223442.D
 Acq On : 29 Mar 2024 9:23 AM
 Operator : AIRLAB22:JMB
 Sample : L2414212-05D,3,1.91,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:07 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.477	49	203004	10.000	ppbV	0.03
Standard Area =	222450		Recovery =		91.26%	
43) 1,4-difluorobenzene	5.397	114	567641	10.000	ppbV	0.02
Standard Area =	633782		Recovery =		89.56%	
67) chlorobenzene-D5	7.360	54	83638	10.000	ppbV	# 0.01
Standard Area =	85965		Recovery =		97.29%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.195	85	1148	0.070	ppbV	98
6) chloromethane	2.195		0	N.D.		
7) Freon-114	2.235		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.779	31	98697	30.269	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	3.001	43	1756567	268.949	ppbV	98
21) trichlorofluoromethane	0.000		0	N.D.	d	
22) isopropyl alcohol	3.112	45	119403	11.027	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.415		0	N.D.		
28) methylene chloride	3.445		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	3.585		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
38) Ethyl Acetate	4.497	61	12690	2.474	ppbV #	6
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223442.D
 Acq On : 29 Mar 2024 9:23 AM
 Operator : AIRLAB22:JMB
 Sample : L2414212-05D,3,1.91,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:07 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	0.000		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	5.843		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.147		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.567		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	7.547		0		N.D.	
83) m+p-xylene	7.627		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	7.793		0		N.D.	
86) 1,1,2,2-tetrachloroethane	7.847		0		N.D.	
87) o-xylene	7.847		0		N.D.	
96) 4-ethyl toluene	8.447		0		N.D.	
97) 1,3,5-trimethylbenzene	8.480		0		N.D.	
99) 1,2,4-trimethylbenzene	8.690		0		N.D.	
101) Benzyl Chloride	8.763		0		N.D.	
102) 1,3-dichlorobenzene	8.770		0		N.D.	
103) 1,4-dichlorobenzene	8.803		0		N.D.	
107) 1,2-dichlorobenzene	8.983		0		N.D.	
115) 1,2,4-trichlorobenzene	9.873		0		N.D.	
116) naphthalene	9.932		0		N.D.	
119) hexachlorobutadiene	10.105		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223442.D
Acq On : 29 Mar 2024 9:23 AM
Operator : AIRLAB22:JMB
Sample : L2414212-05D,3,1.91,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

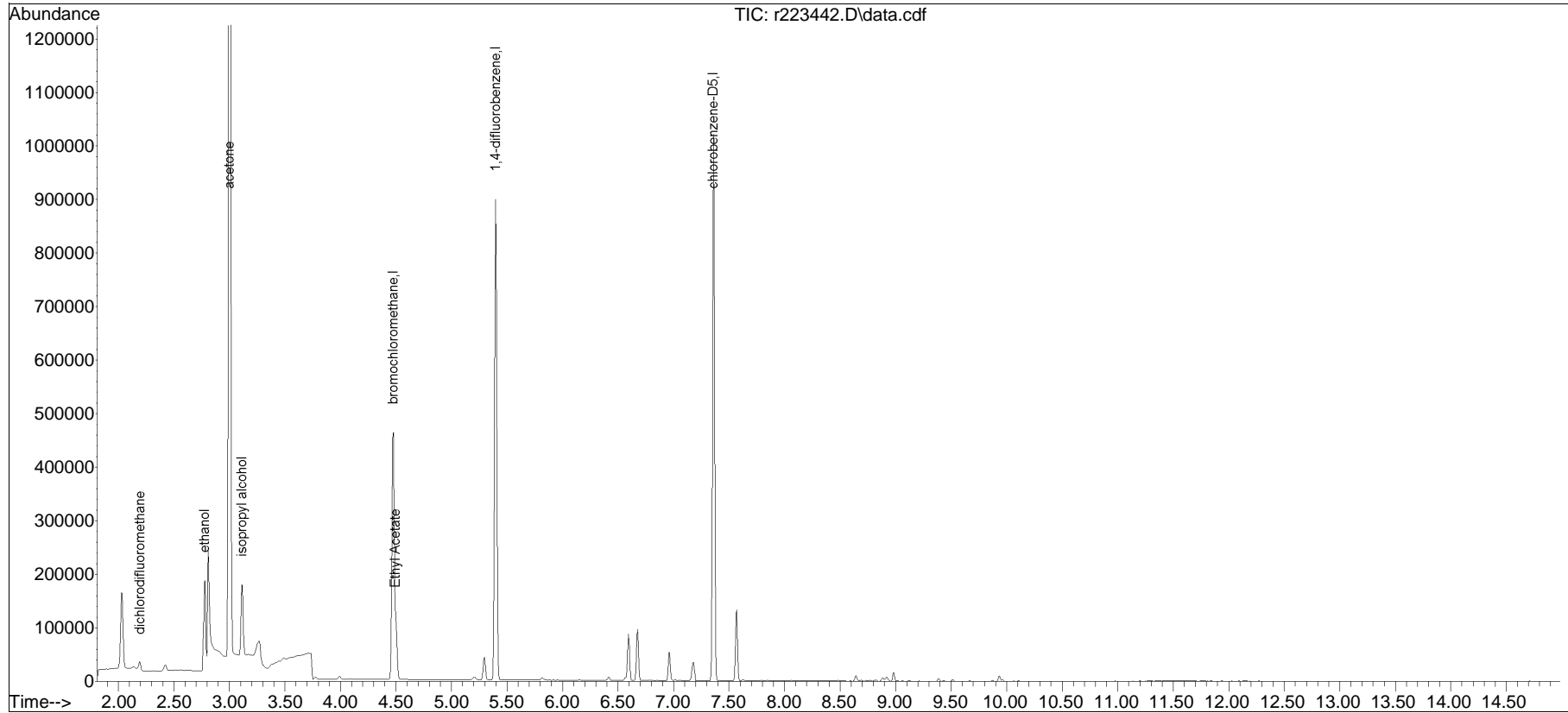
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
Sub List : TO15-NY+Naphthalene - .

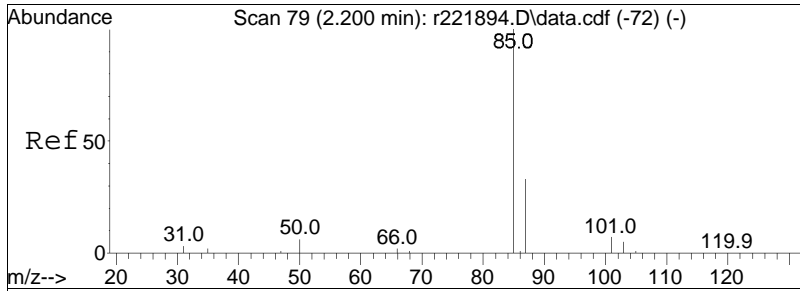
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223442.D
Acq On : 29 Mar 2024 9:23 AM
Operator : AIRLAB22:JMB
Sample : L2414212-05D,3,1.91,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

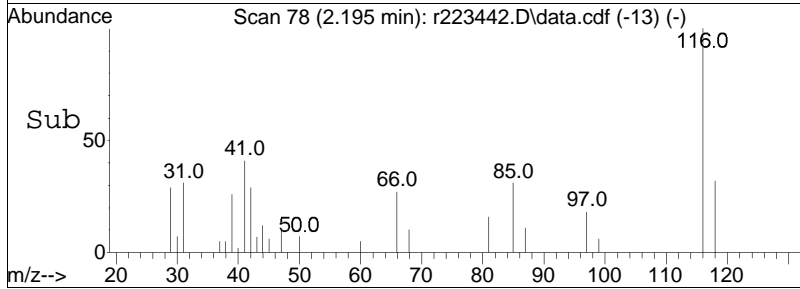
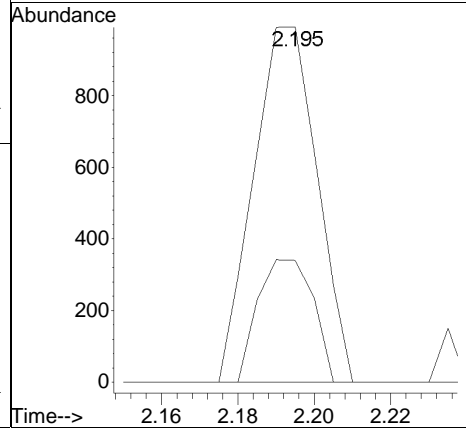
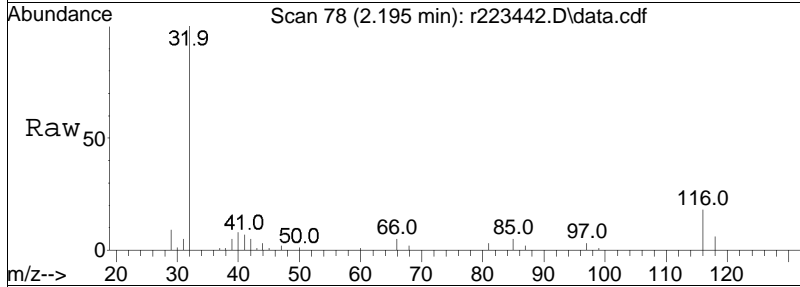
Quant Time: Mar 29 10:37:07 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

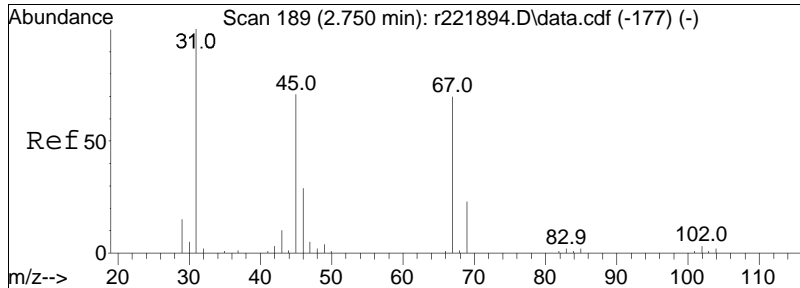




#5
dichlorodifluoromethane
Concen: 0.07 ppbV
RT: 2.195 min Scan# 78
Delta R.T. -0.005 min
Lab File: r223442.D
Acq: 29 Mar 2024 9:23 AM

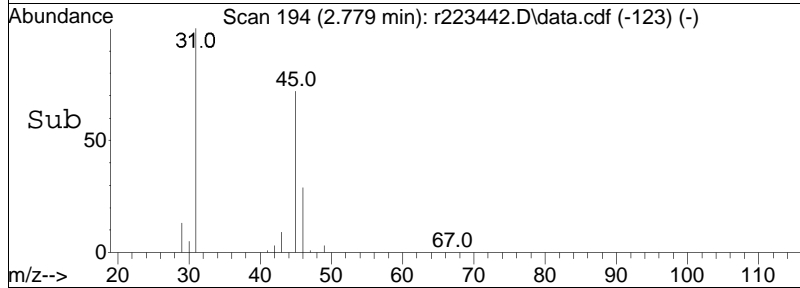
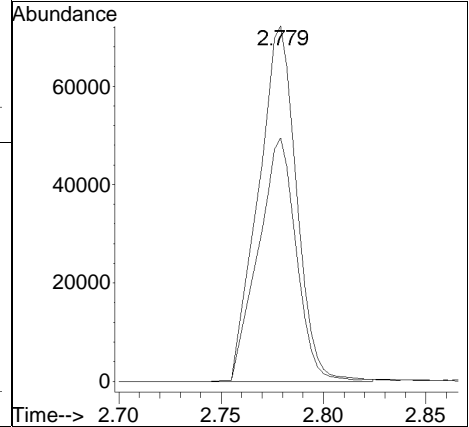
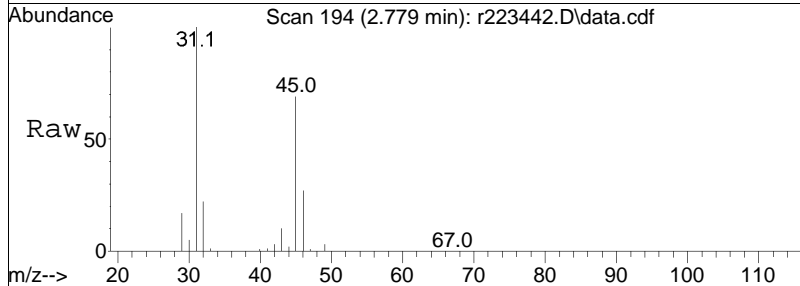
Tgt Ion: 85 Resp: 1148
Ion Ratio Lower Upper
85 100
87 34.3 26.3 39.5

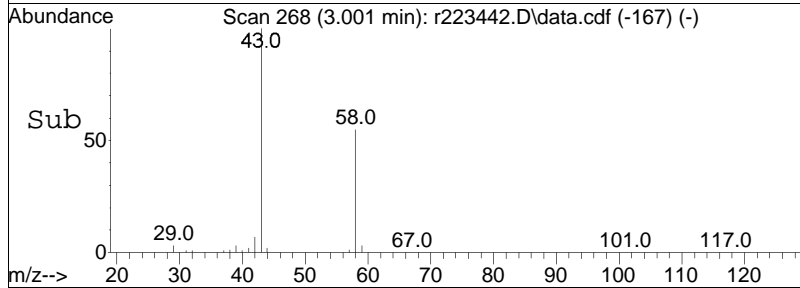
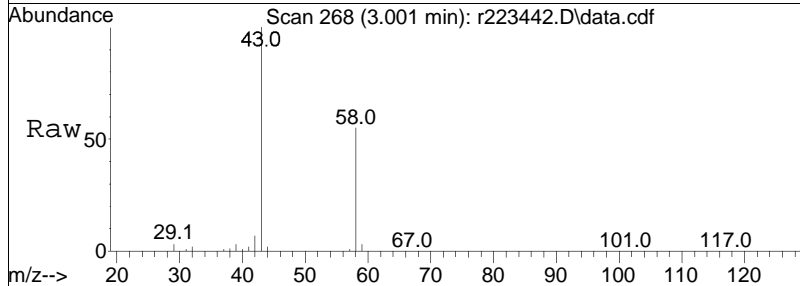
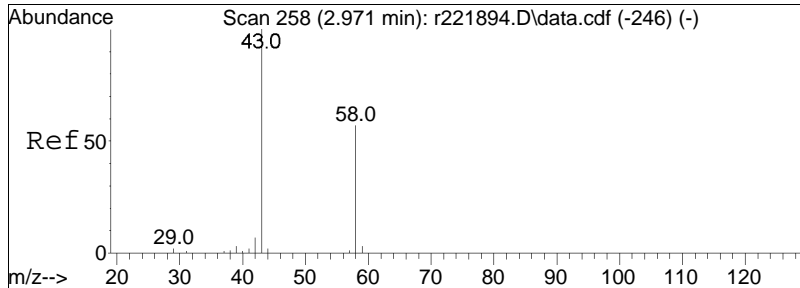




#15
 ethanol
 Concen: 30.27 ppbV
 RT: 2.779 min Scan# 194
 Delta R.T. 0.029 min
 Lab File: r223442.D
 Acq: 29 Mar 2024 9:23 AM

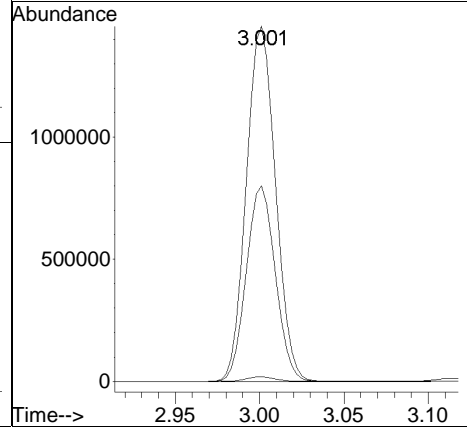
Tgt Ion	Resp	Lower	Upper
31	100		
45	68.5	56.6	84.8

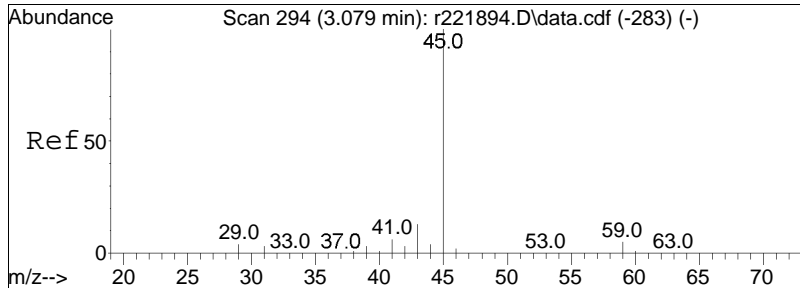




#19
 acetone
 Concen: 268.95 ppbV
 RT: 3.001 min Scan# 268
 Delta R.T. 0.030 min
 Lab File: r223442.D
 Acq: 29 Mar 2024 9:23 AM

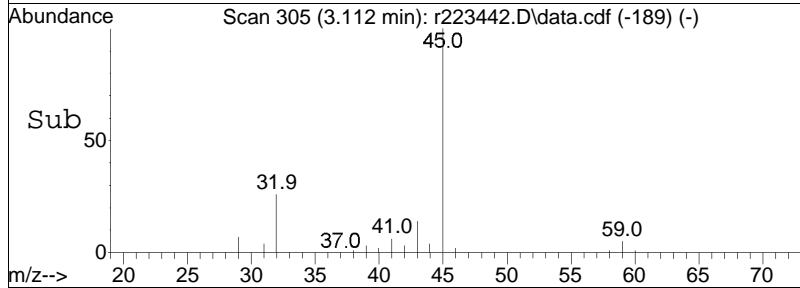
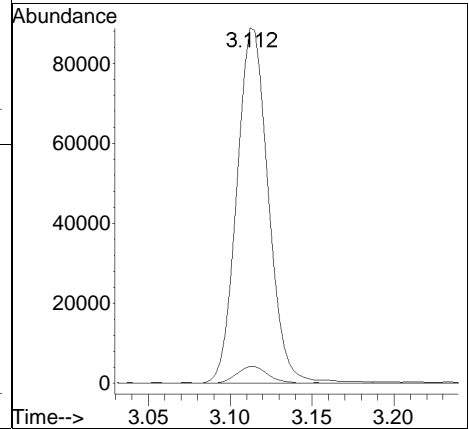
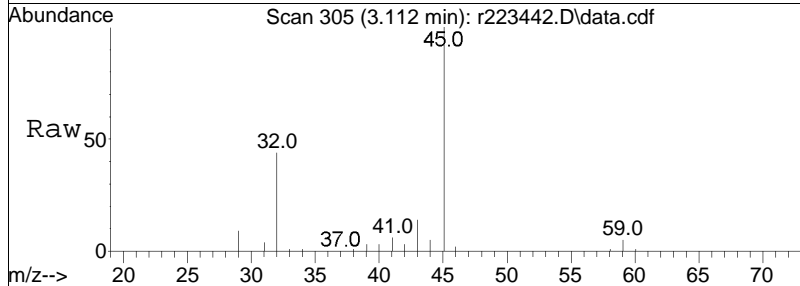
Tgt Ion:	43	Resp:	1756567
Ion Ratio	Lower	Upper	
43	100		
58	55.1	45.5	68.3
57	1.3	1.0	1.6

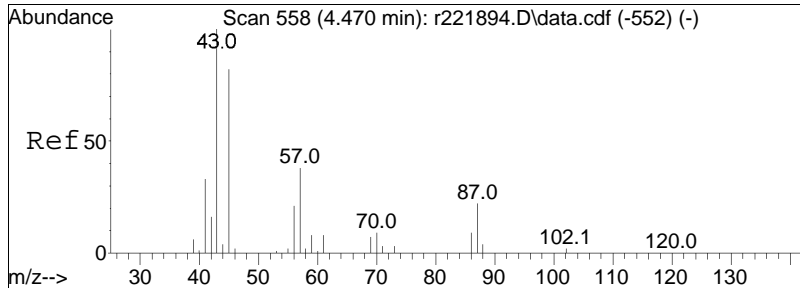




#22
 isopropyl alcohol
 Concen: 11.03 ppbV
 RT: 3.112 min Scan# 305
 Delta R.T. 0.033 min
 Lab File: r223442.D
 Acq: 29 Mar 2024 9:23 AM

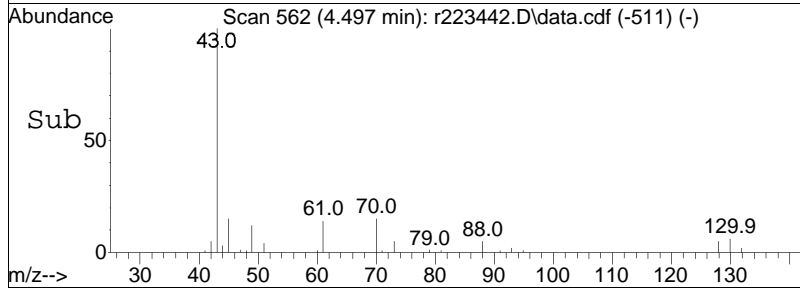
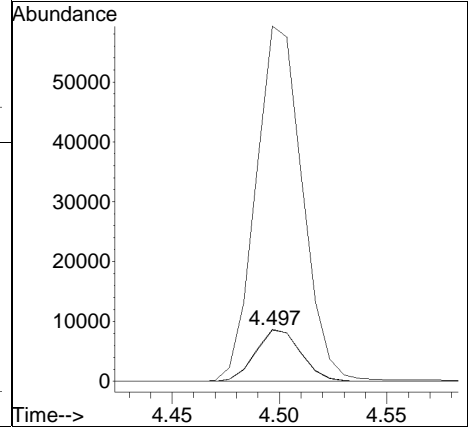
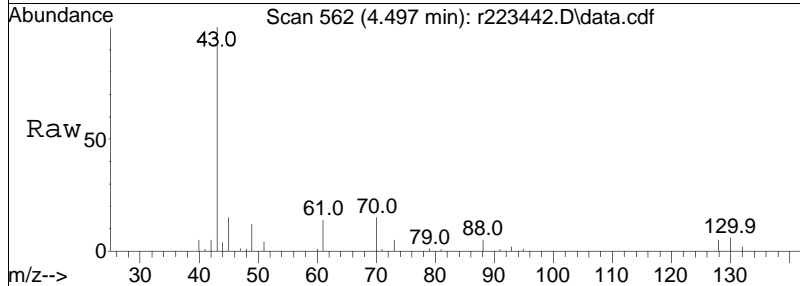
Tgt Ion:	45	59	Resp:	119403
Ion Ratio	100	4.8	Lower	Upper
			4.0	6.0





#38
 Ethyl Acetate
 Concen: 2.47 ppbV
 RT: 4.497 min Scan# 562
 Delta R.T. 0.027 min
 Lab File: r223442.D
 Acq: 29 Mar 2024 9:23 AM

Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
70	101.5	91.7	137.5
43	691.7	971.0	1456.6#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223442.D Operator : AIRLAB22:JMB
Date Inj'd : 3/29/2020 0:9: 3 Instrument :
Sample : L2414212-05D,3,1.91,250 Quant Date : 3/29/2024 10:37 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436807.D
 Acq On : 30 Mar 2024 3:45 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-10,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:09 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.208	49	356144	10.000	ppbV	0.07
Standard Area =	358796		Recovery =	99.26%		
43) 1,4-difluorobenzene	11.440	114	760901	10.000	ppbV	0.07
Standard Area =	735074		Recovery =	103.51%		
67) chlorobenzene-D5	16.117	54	167902	10.000	ppbV	0.05
Standard Area =	162298		Recovery =	103.45%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.048	85	20879	0.529	ppbV	98
6) chloromethane	4.222	50	2101	0.094	ppbV	99
7) Freon-114	4.330		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.080		0	N.D.		
15) ethanol	5.230	31	81908	3.712	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.743	43	438288M6	15.727	ppbV	
21) trichlorofluoromethane	5.927	101	5376	0.192	ppbV	94
22) isopropyl alcohol	6.043	45	11123	0.294	ppbV #	95
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.720	59	53777	1.374	ppbV	93
28) methylene chloride	6.780	49	2605	0.094	ppbV	93
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.092	76	105827	1.896	ppbV	94
31) Freon 113	7.092	101	2111	0.067	ppbV	94
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.150		0	N.D.		
36) 2-butanone	8.525	43	214461	4.373	ppbV	99
37) cis-1,2-dichloroethene	9.025		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.367	83	359967	9.469	ppbV	99
40) Tetrahydrofuran	9.833	42	7473	0.254	ppbV	94
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.275	57	2944	0.072	ppbV #	16

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436807.D
 Acq On : 30 Mar 2024 3:45 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-10,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:09 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	11.027	78	7266	0.104	ppbV	98
52) carbon tetrachloride	11.193	117	3473	0.126	ppbV	99
53) cyclohexane	11.340	56	1809	0.042	ppbV #	88
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	12.193	83	13083	0.339	ppbV	98
58) 1,4-dioxane	12.267		0		N.D.	
59) trichloroethene	12.253	130	980	0.042	ppbV	93
60) 2,2,4-trimethylpentane	12.247		0		N.D.	
62) heptane	12.600	43	3201	0.063	ppbV #	92
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	13.208		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.383	91	12611	0.163	ppbV	99
72) 2-hexanone	14.667	43	29742M3	0.548	ppbV	
74) dibromochloromethane	14.808	129	1374	0.045	ppbV #	93
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	15.517	166	1398757	52.257	ppbV	98
80) chlorobenzene	16.158		0		N.D.	
81) ethylbenzene	16.500	91	9452	0.099	ppbV	98
83) m+p-xylene	16.658	91	24856	0.321	ppbV	95
84) bromoform	0.000		0		N.D.	
85) styrene	16.983		0		N.D.	
86) 1,1,2,2-tetrachloroethane	17.083		0		N.D.	
87) o-xylene	17.083	91	8005	0.102	ppbV	97
96) 4-ethyl toluene	18.142		0		N.D.	
97) 1,3,5-trimethylbenzene	18.200		0		N.D.	
99) 1,2,4-trimethylbenzene	18.542	105	7778M3	0.087	ppbV	
101) Benzyl Chloride	0.000		0		N.D. d	
102) 1,3-dichlorobenzene	18.733		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D. d	
107) 1,2-dichlorobenzene	19.017		0		N.D.	
115) 1,2,4-trichlorobenzene	20.525		0		N.D.	
116) naphthalene	20.642	128	42484	0.430	ppbV	96
119) hexachlorobutadiene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436807.D
Acq On : 30 Mar 2024 3:45 AM
Operator : AIRLAB15:BJB
Sample : L2414212-10,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

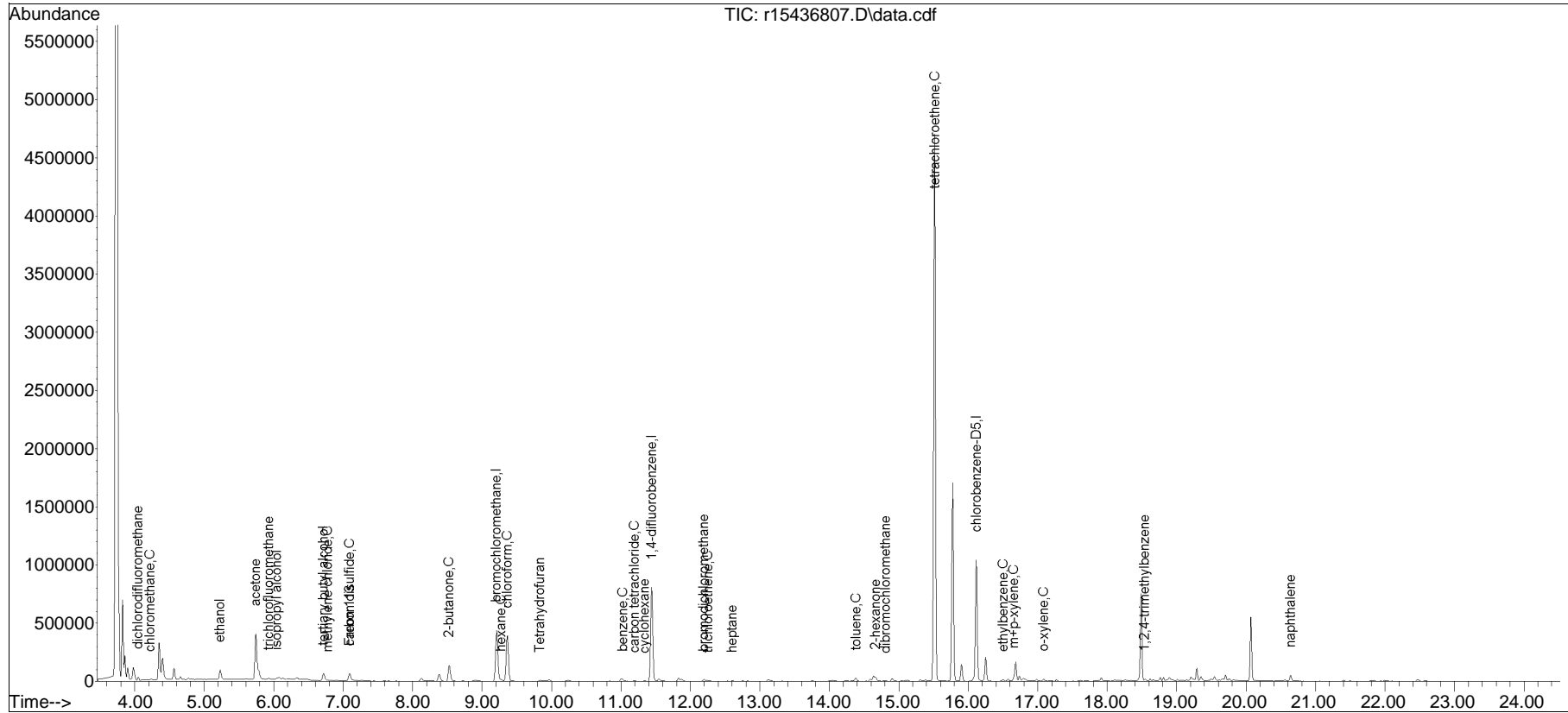
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : TO15-NY+Naphthalene - .

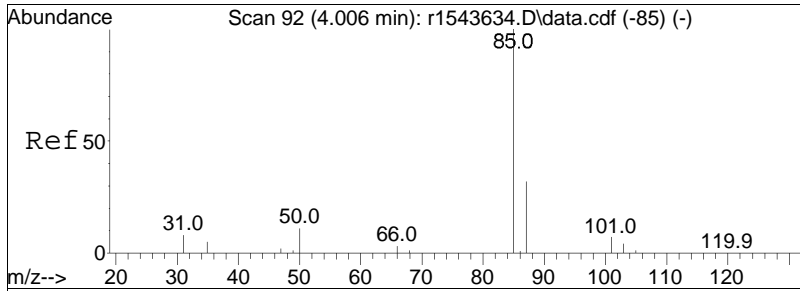
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b15\2024\03\0329T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436807.D
Acq On : 30 Mar 2024 3:45 AM
Operator : AIRLAB15:BJB
Sample : L2414212-10,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

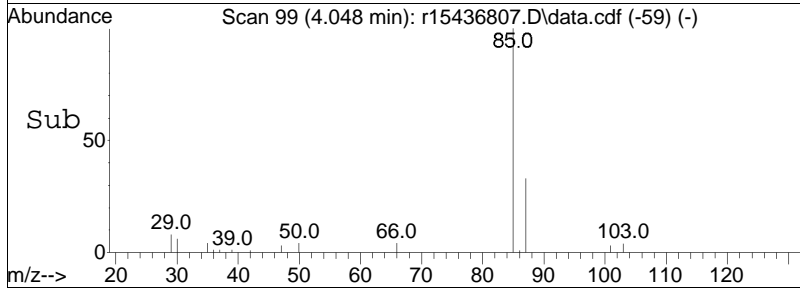
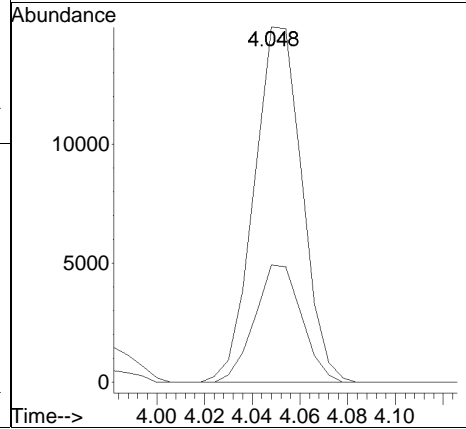
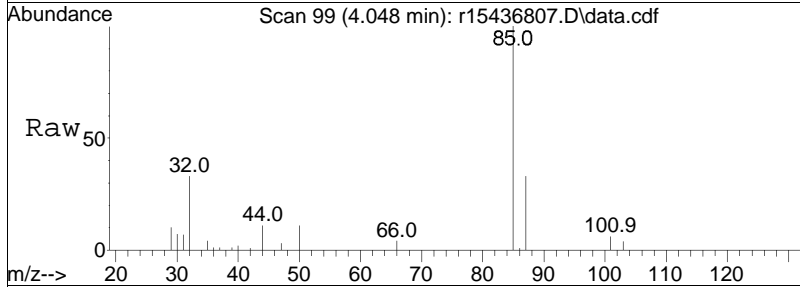
Quant Time: Mar 30 07:30:09 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

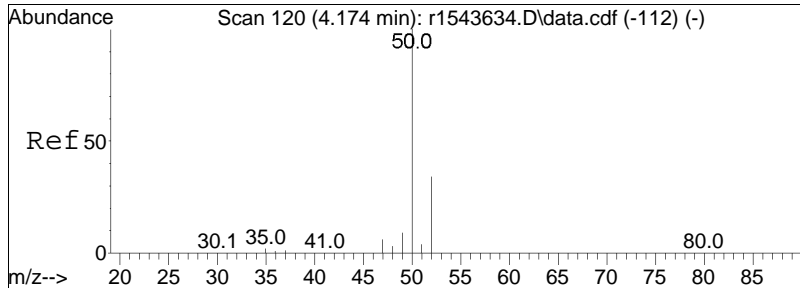




#5
 dichlorodifluoromethane
 Concen: 0.53 ppbV
 RT: 4.048 min Scan# 99
 Delta R.T. 0.042 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

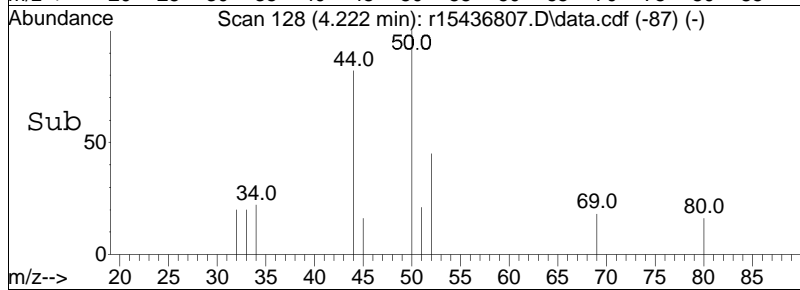
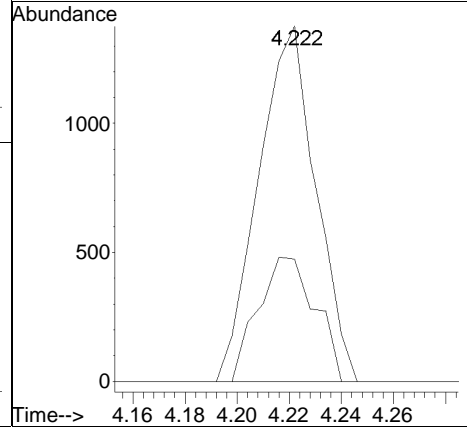
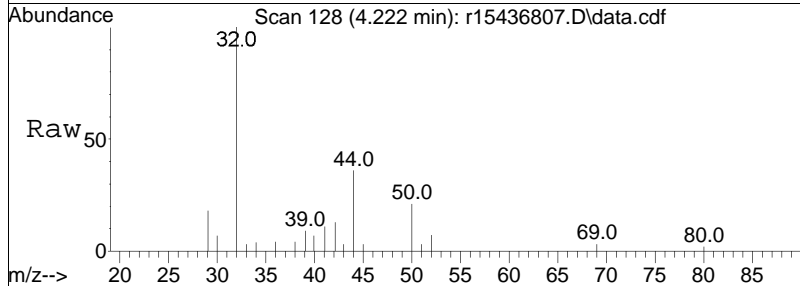
Tgt Ion: 85 Resp: 20879
 Ion Ratio Lower Upper
 85 100
 87 33.0 25.5 38.3

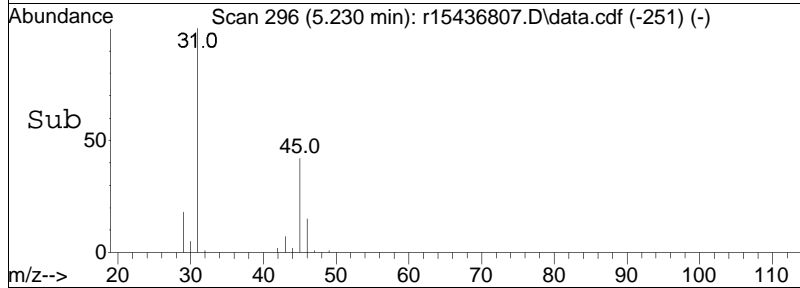
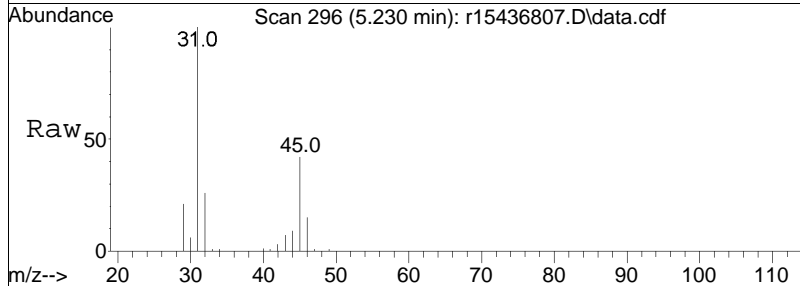
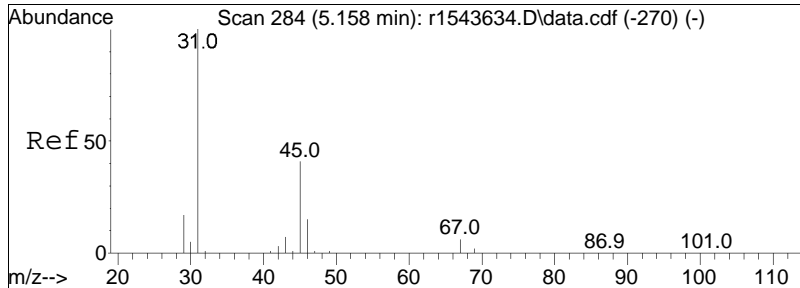




#6
 chloromethane
 Concen: 0.09 ppbV
 RT: 4.222 min Scan# 128
 Delta R.T. 0.048 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

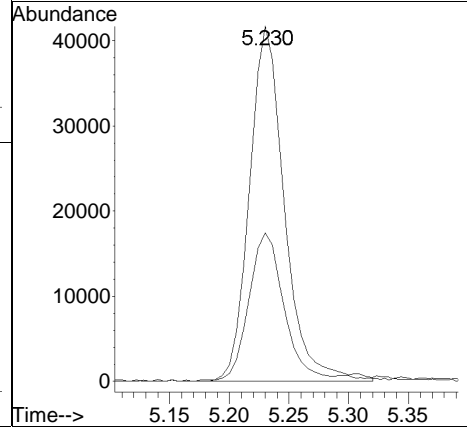
Tgt Ion:	50	52	Resp:	2101
Ion Ratio	100	34.4	Lower	Upper
			27.0	40.4

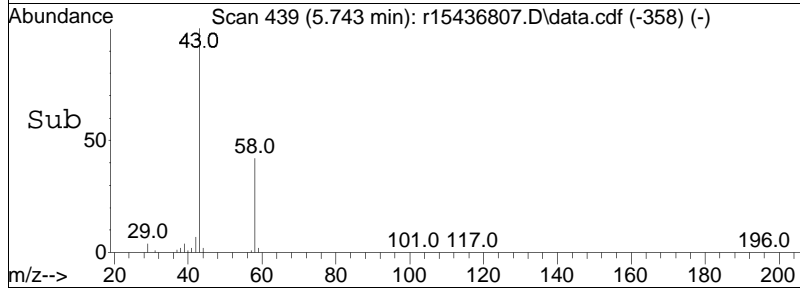
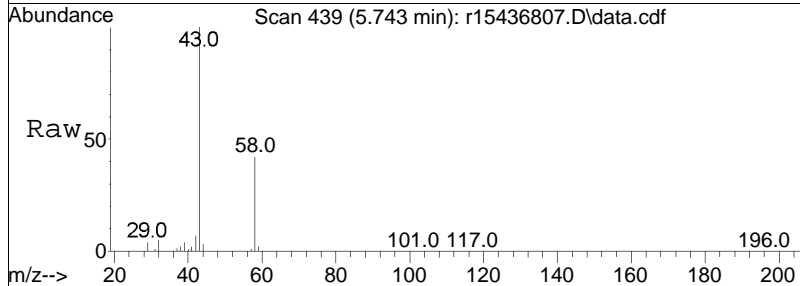
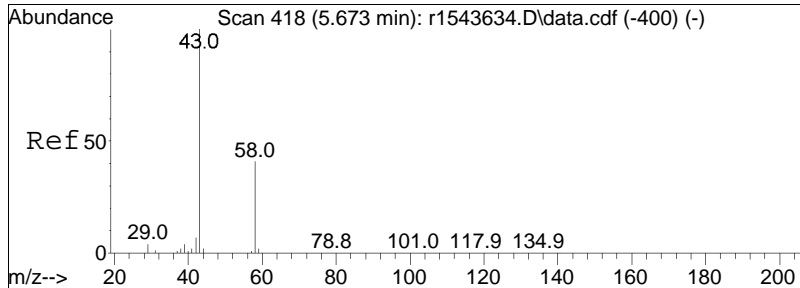




#15
 ethanol
 Concen: 3.71 ppbV
 RT: 5.230 min Scan# 296
 Delta R.T. 0.072 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

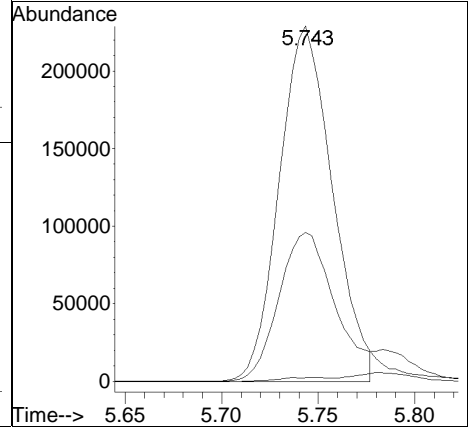
Tgt Ion:	31	Resp:	81908
Ion Ratio	Lower	Upper	
31	100		
45	41.8	33.0	49.4

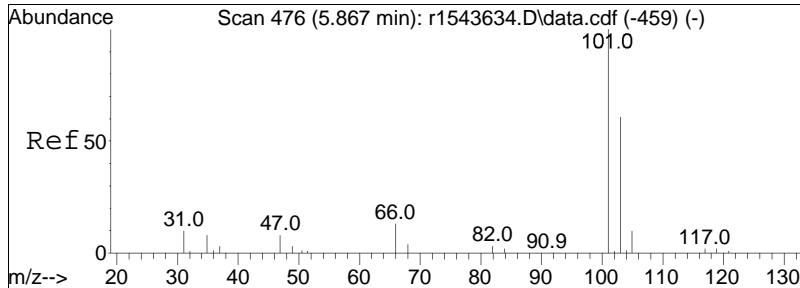




#19
 acetone
 Concen: 15.73 ppbV m
 RT: 5.743 min Scan# 439
 Delta R.T. 0.070 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

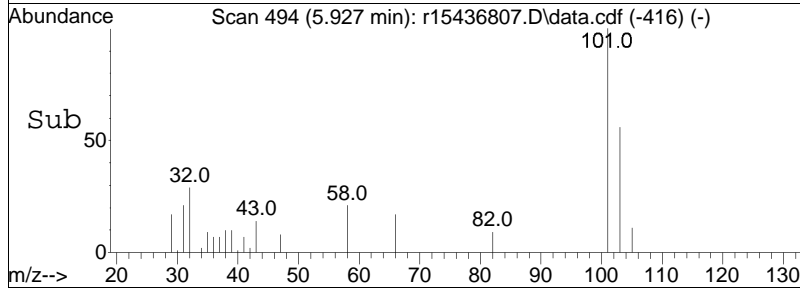
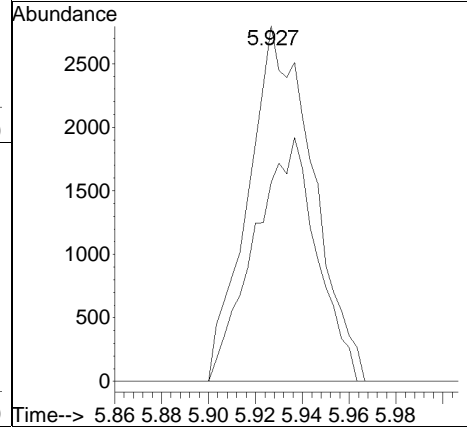
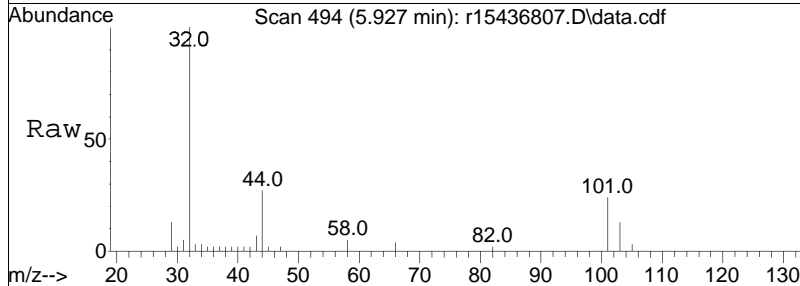
Tgt Ion:	43	58	57	Resp:	438288	Lower	Upper
Ion Ratio	100	42.0	1.1			33.2	49.8

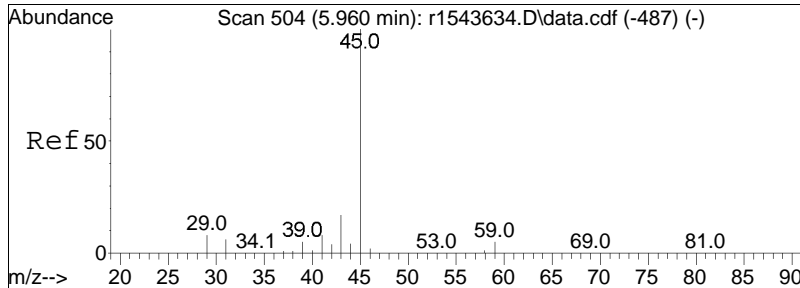




#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 5.927 min Scan# 494
Delta R.T. 0.060 min
Lab File: r15436807.D
Acq: 30 Mar 2024 3:45 AM

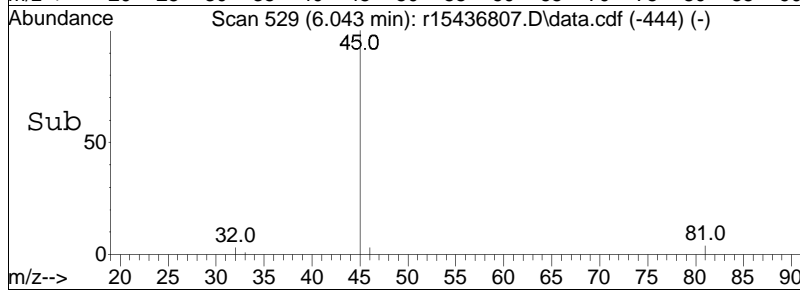
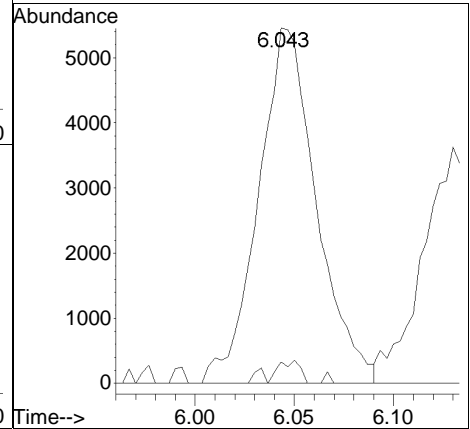
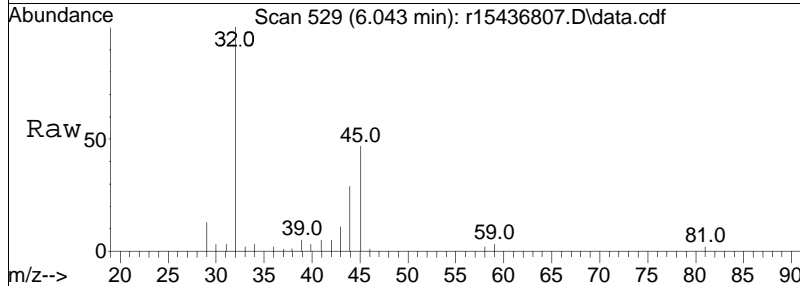
Tgt Ion: 101 Resp: 5376
Ion Ratio Lower Upper
101 100
103 56.0 48.6 73.0

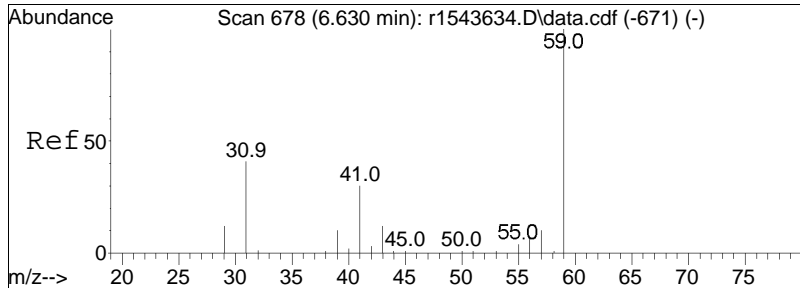




#22
 isopropyl alcohol
 Concen: 0.29 ppbV
 RT: 6.043 min Scan# 529
 Delta R.T. 0.083 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

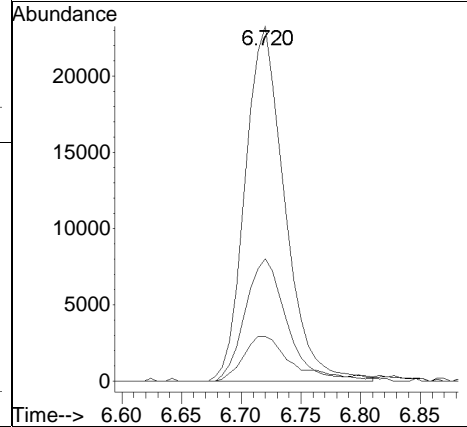
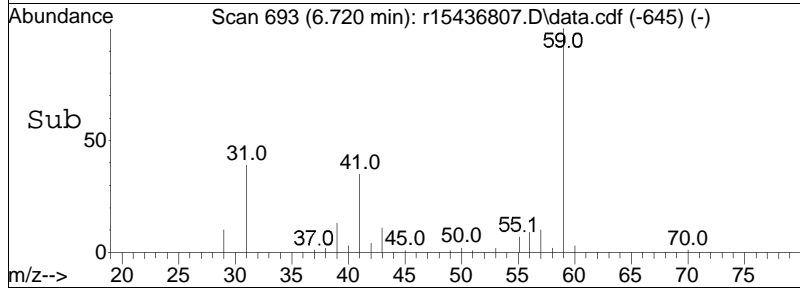
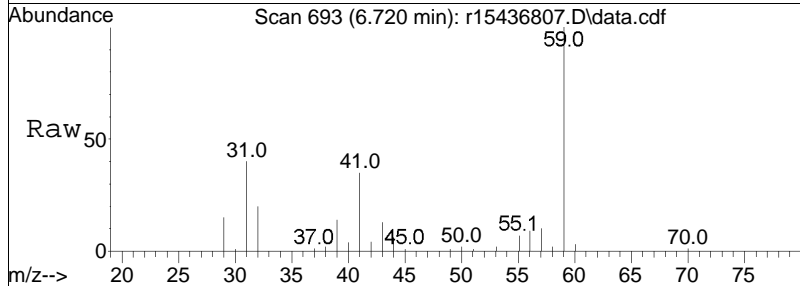
Tgt Ion:	45	Resp:	11123
Ion Ratio	100	Lower	Upper
	59	6.0	3.6 5.4#

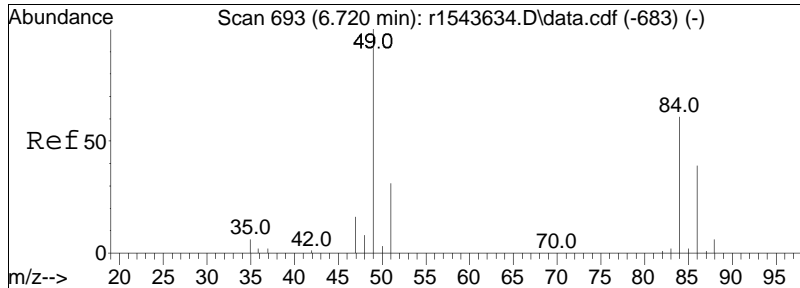




#27
 tertiary butyl alcohol
 Concen: 1.37 ppbV
 RT: 6.720 min Scan# 693
 Delta R.T. 0.090 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

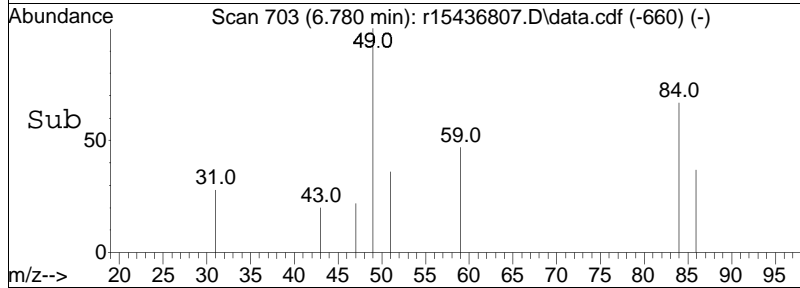
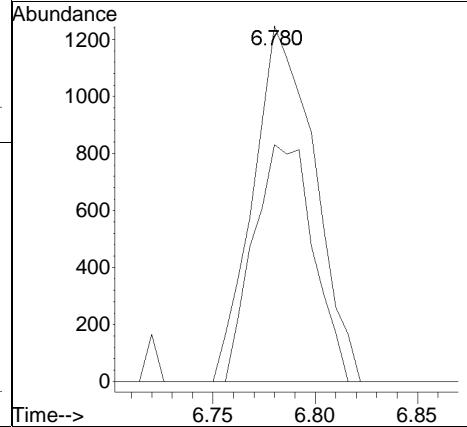
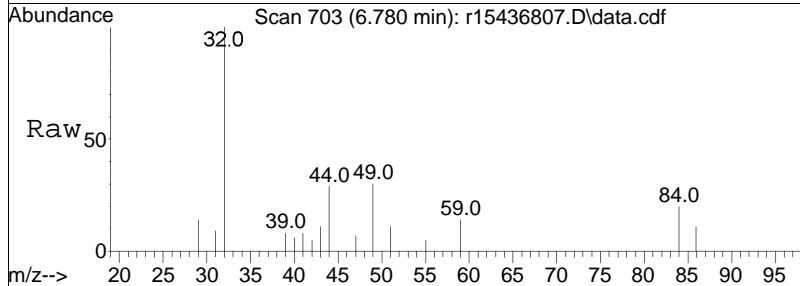
Tgt Ion	Resp	Lower	Upper
59	53777		
41	34.5	23.6	35.4
43	12.6	9.8	14.6

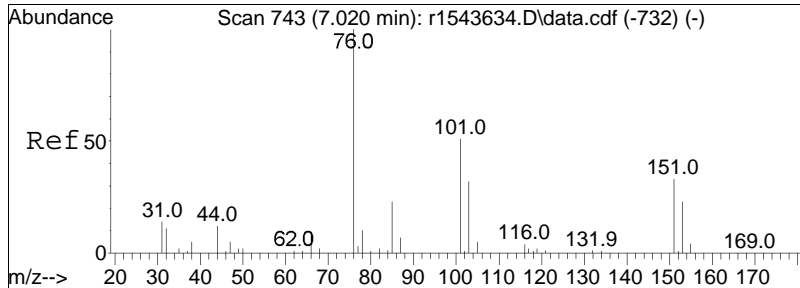




#28
 methylene chloride
 Concen: 0.09 ppbV
 RT: 6.780 min Scan# 703
 Delta R.T. 0.060 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

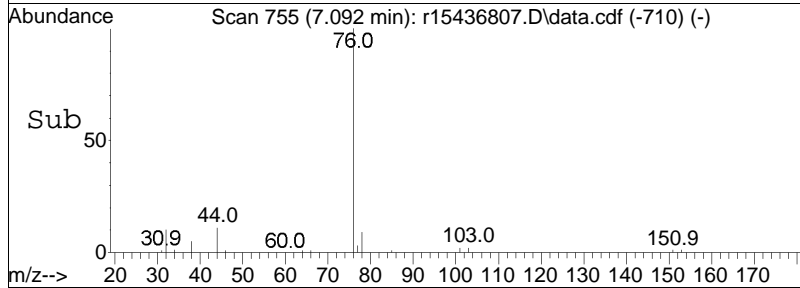
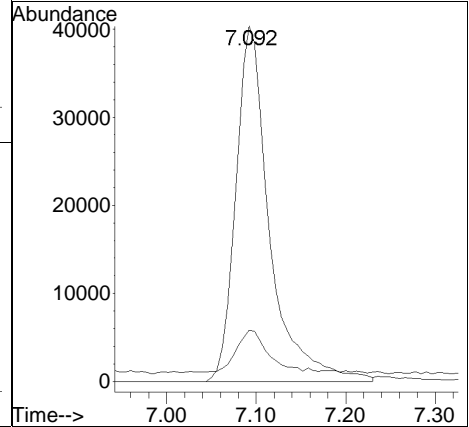
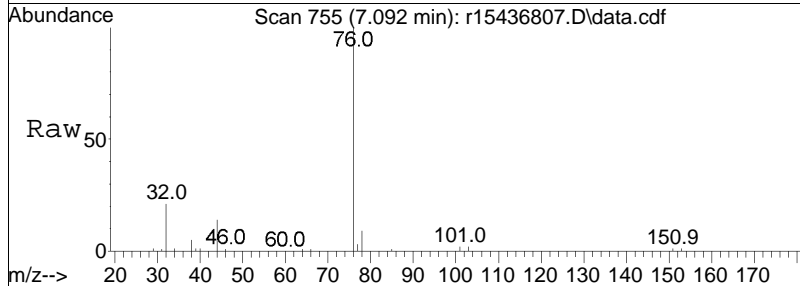
Tgt Ion: 49 Resp: 2605
 Ion Ratio Lower Upper
 49 100
 84 66.6 48.8 73.2

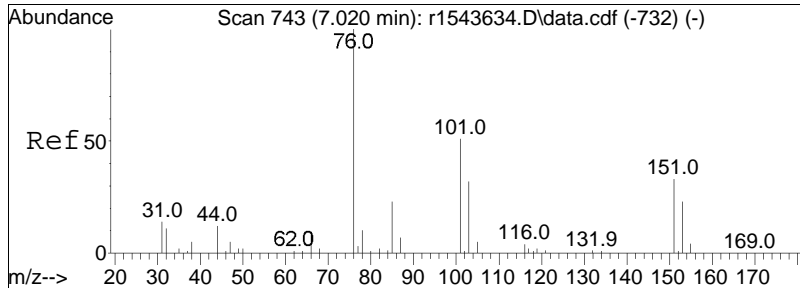




#30
 carbon disulfide
 Concen: 1.90 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

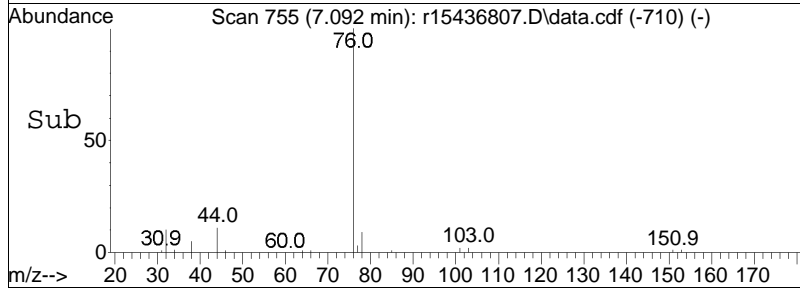
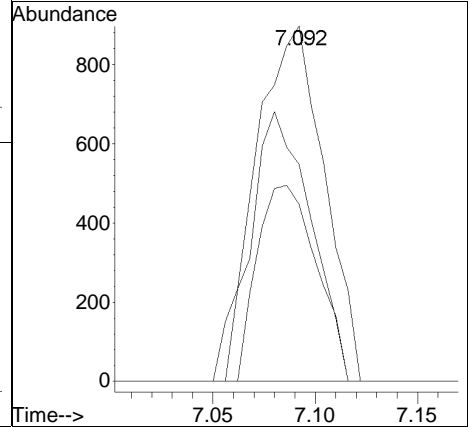
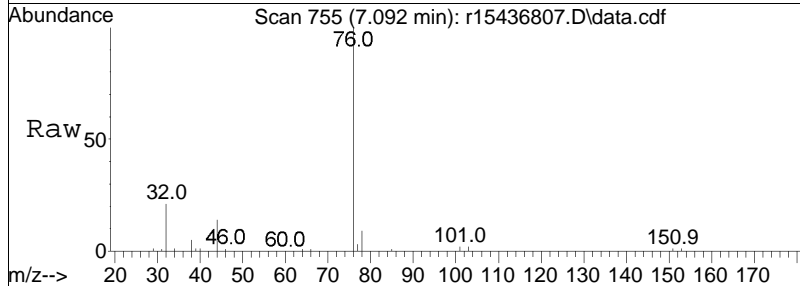
Tgt Ion: 76 Resp: 105827
 Ion Ratio Lower Upper
 76 100
 44 14.4 9.8 14.6

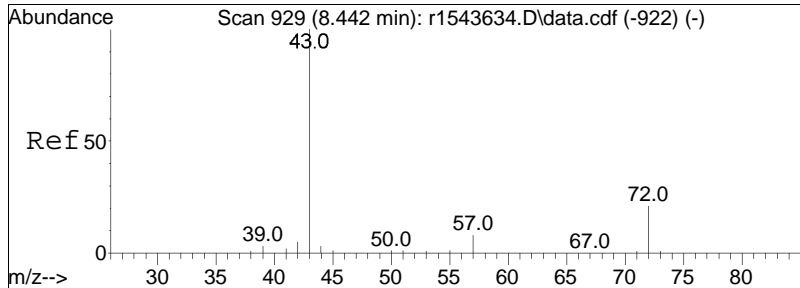




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

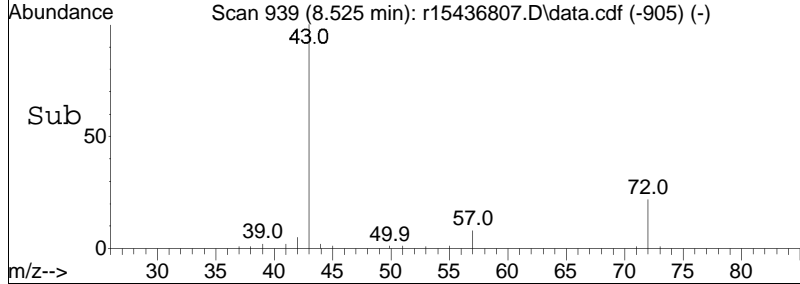
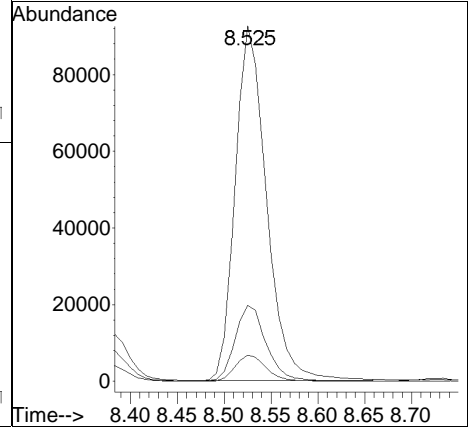
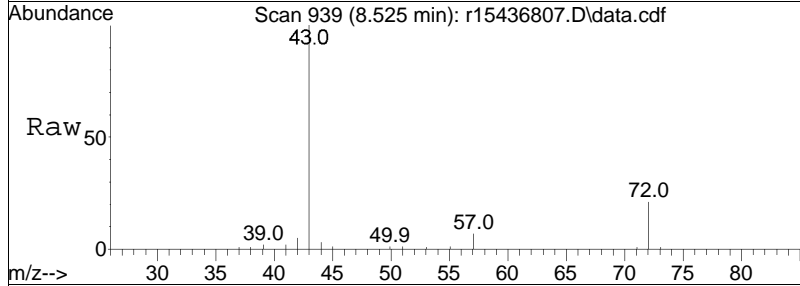
Tgt Ion	Ratio	Lower	Upper
101	100		
85	49.8	36.6	55.0
151	61.1	52.3	78.5

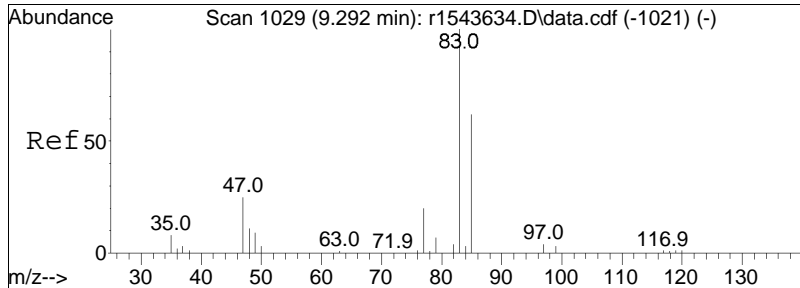




#36
 2-butanone
 Concen: 4.37 ppbV
 RT: 8.525 min Scan# 939
 Delta R.T. 0.083 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

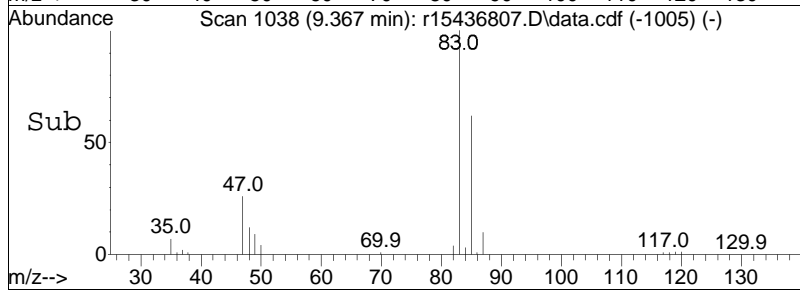
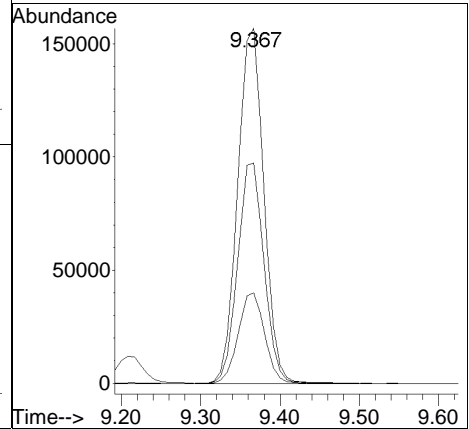
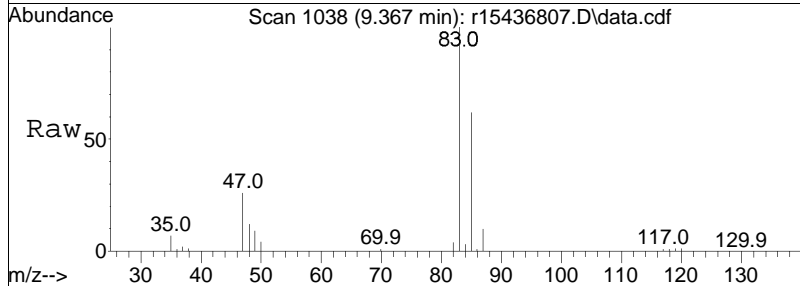
Tgt Ion	Resp	Lower	Upper
43	214461		
72	21.4	16.8	25.2
57	7.4	6.0	9.0

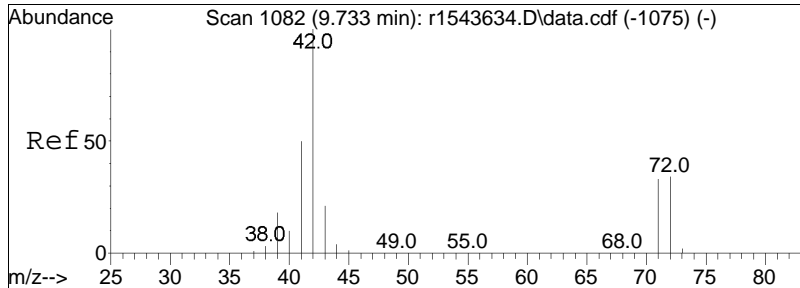




#39
 chloroform
 Concen: 9.47 ppbV
 RT: 9.367 min Scan# 1038
 Delta R.T. 0.075 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

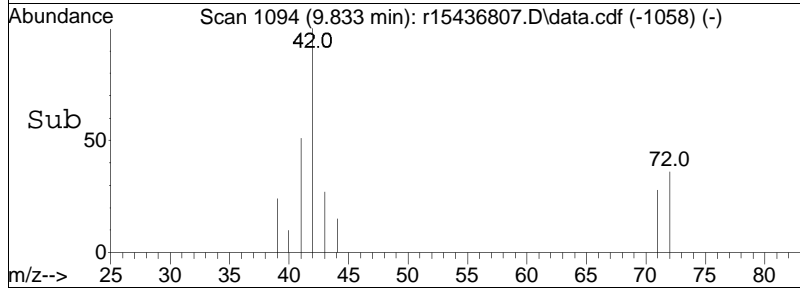
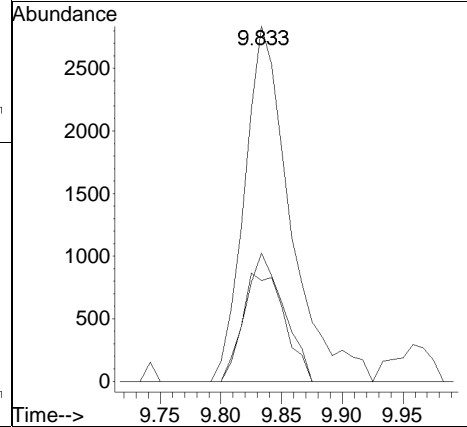
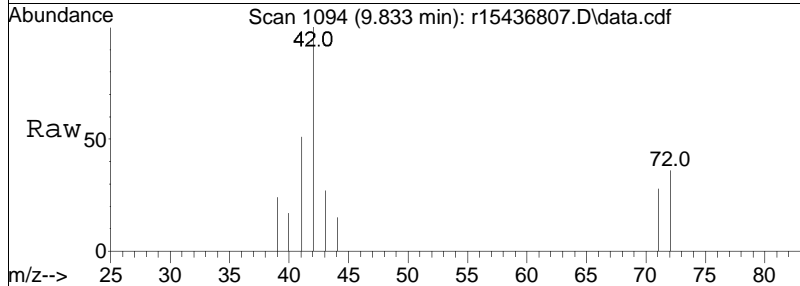
Tgt Ion:	83	Resp:	359967
Ion Ratio	Lower	Upper	
83	100		
85	62.0	50.0	75.0
47	25.5	20.0	30.0

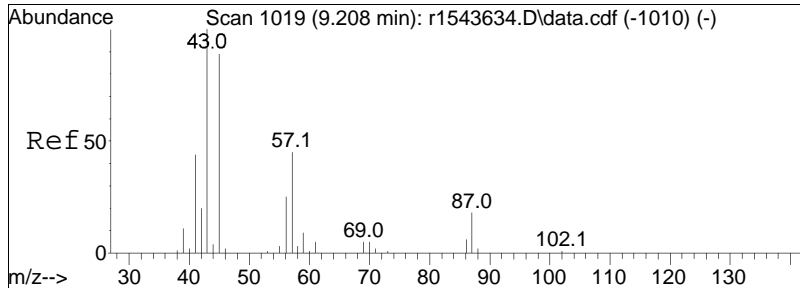




#40
 Tetrahydrofuran
 Concen: 0.25 ppbV
 RT: 9.833 min Scan# 1094
 Delta R.T. 0.100 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

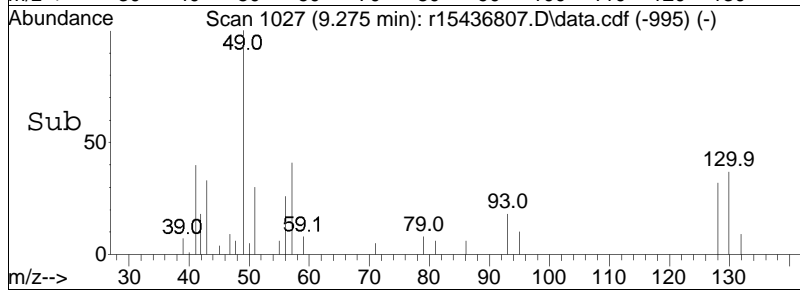
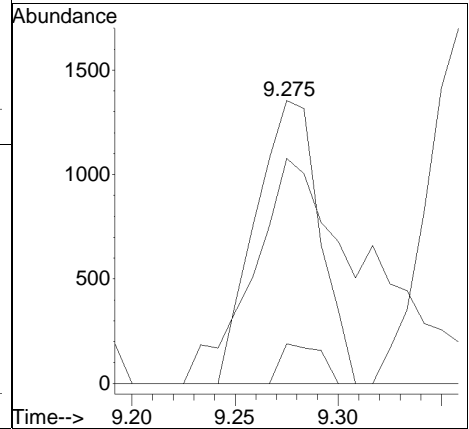
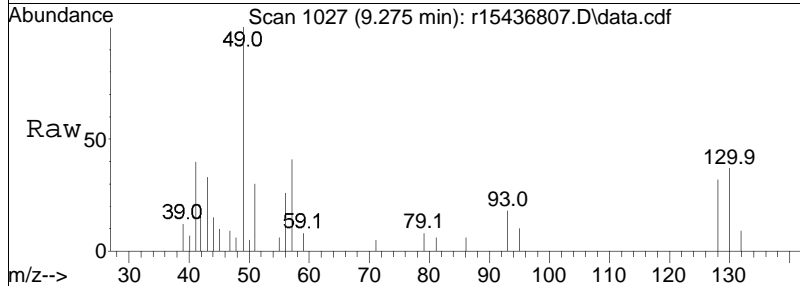
Tgt Ion	Resp	Lower	Upper
42	7473		
71	28.4	26.1	39.1
72	36.1	27.1	40.7

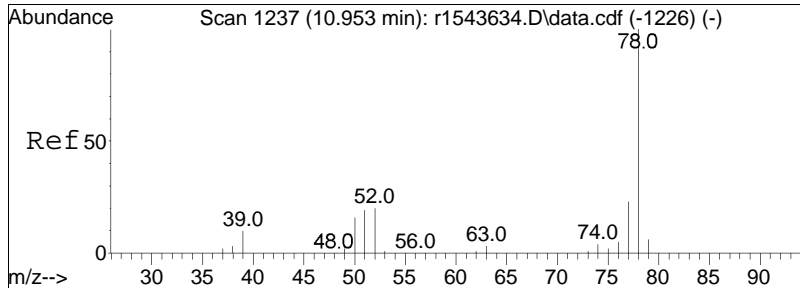




#44
 hexane
 Concen: 0.07 ppbV
 RT: 9.275 min Scan# 1027
 Delta R.T. 0.067 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

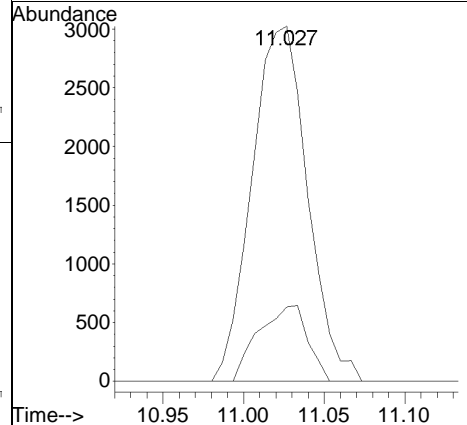
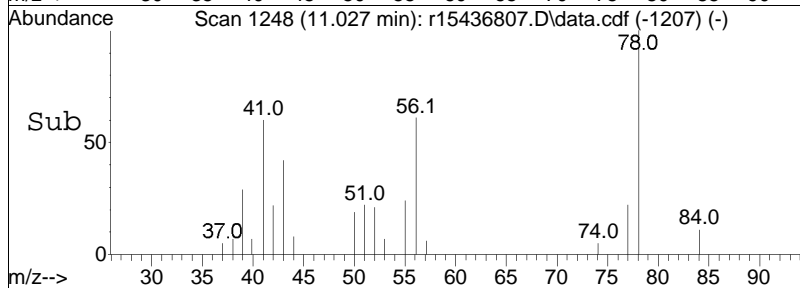
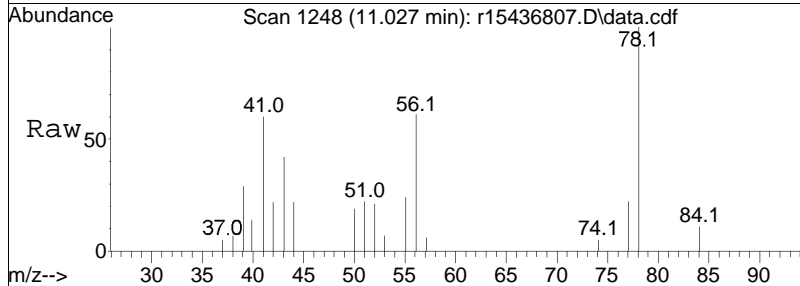
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	79.5	179.7	269.5#
86	14.0	11.3	16.9

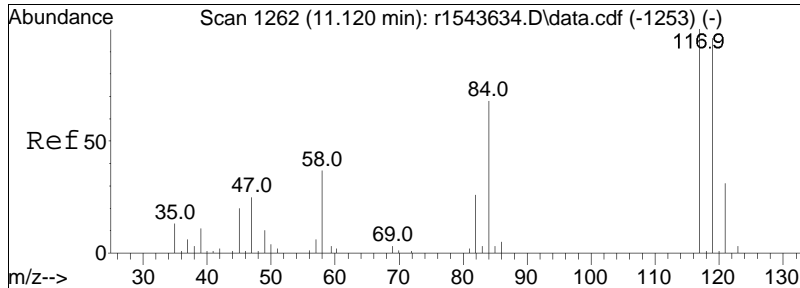




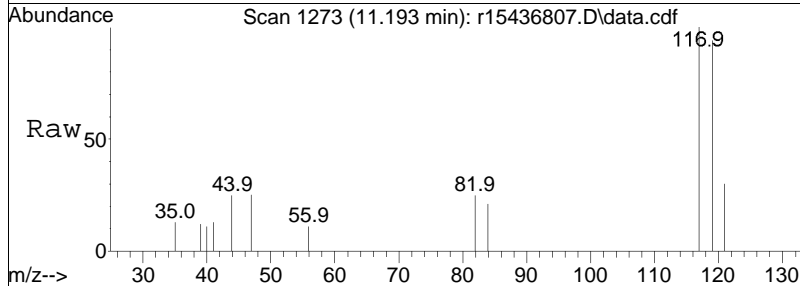
#50
benzene
Concen: 0.10 ppbV
RT: 11.027 min Scan# 1248
Delta R.T. 0.073 min
Lab File: r15436807.D
Acq: 30 Mar 2024 3:45 AM

Tgt Ion: 78 Resp: 7266
Ion Ratio Lower Upper
78 100
52 20.9 16.0 24.0

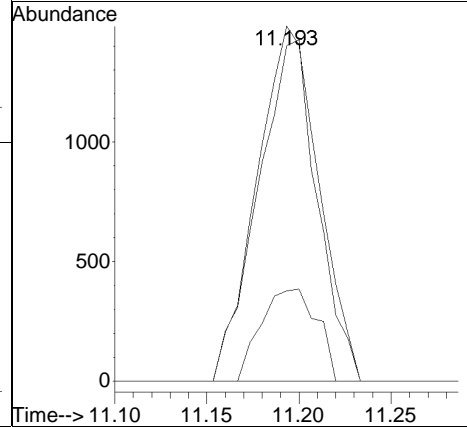
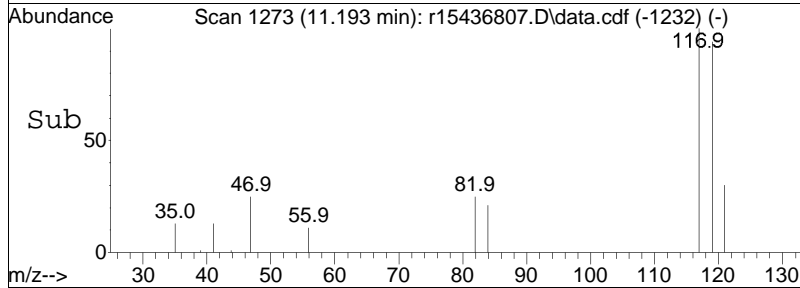


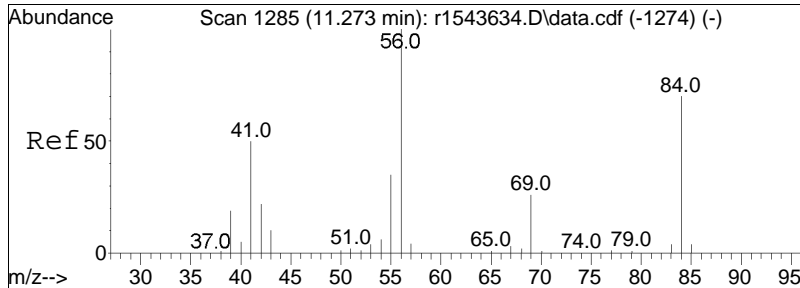


#52
 carbon tetrachloride
 Concen: 0.13 ppbV
 RT: 11.193 min Scan# 1273
 Delta R.T. 0.073 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM



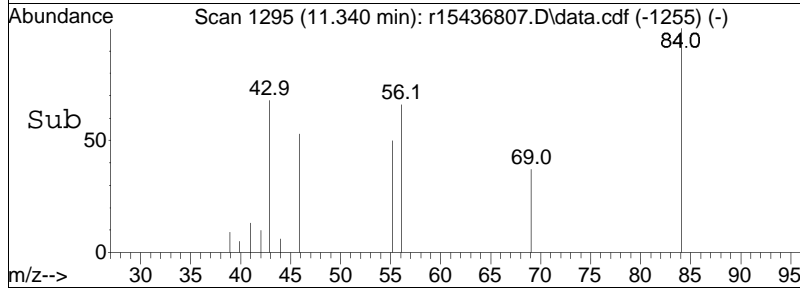
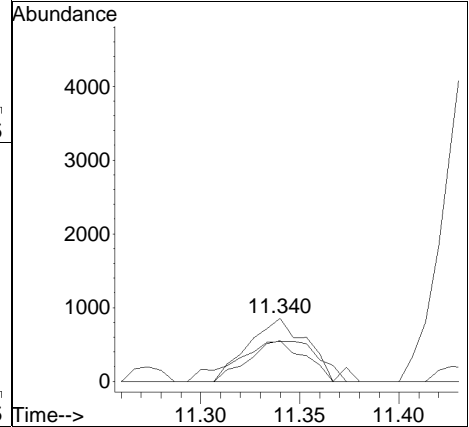
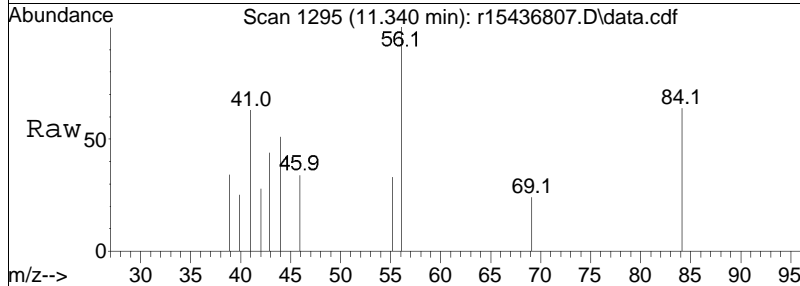
Tgt Ion	Resp	Lower	Upper
117	3473		
117	100		
119	94.5	76.7	115.1
82	25.5	20.9	31.3

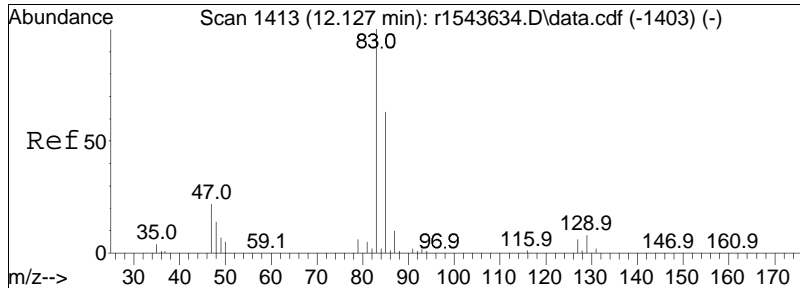




#53
 cyclohexane
 Concen: 0.04 ppbV
 RT: 11.340 min Scan# 1295
 Delta R.T. 0.067 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

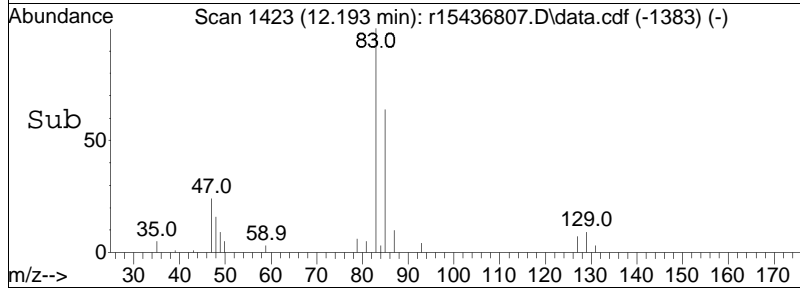
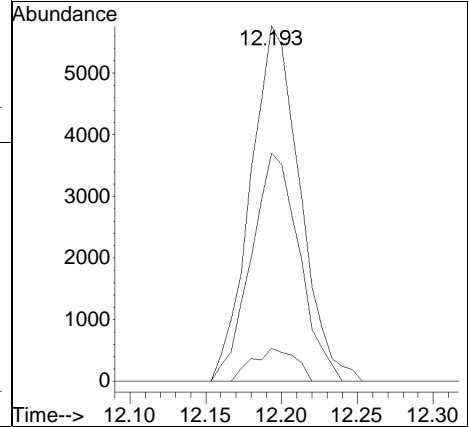
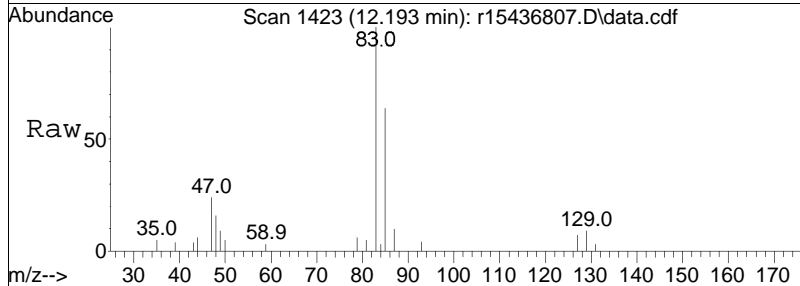
Tgt Ion	Resp	Lower	Upper
56	100		
84	64.4	55.9	83.9
41	63.4	40.3	60.5#

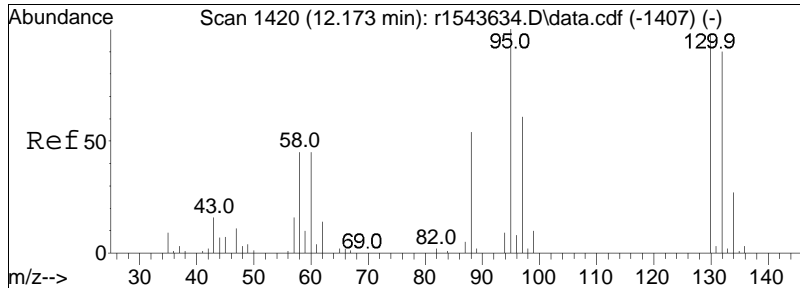




#57
 bromodichloromethane
 Concen: 0.34 ppbV
 RT: 12.193 min Scan# 1423
 Delta R.T. 0.067 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

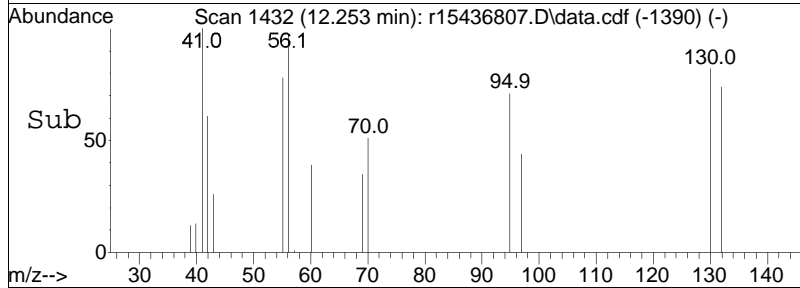
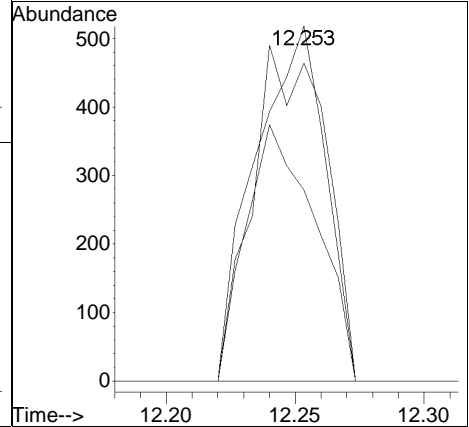
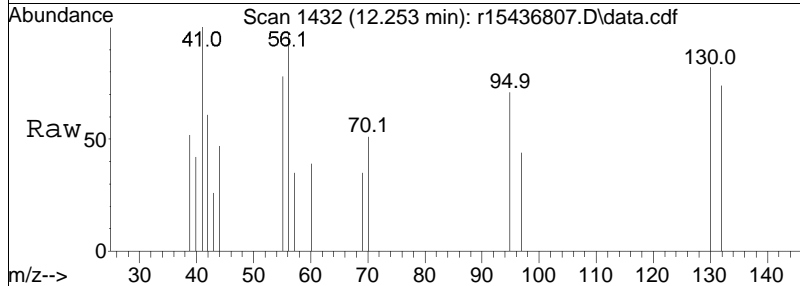
Tgt Ion	Resp	Lower	Upper
83	13083		
85	64.3	50.3	75.5
129	9.3	6.6	10.0

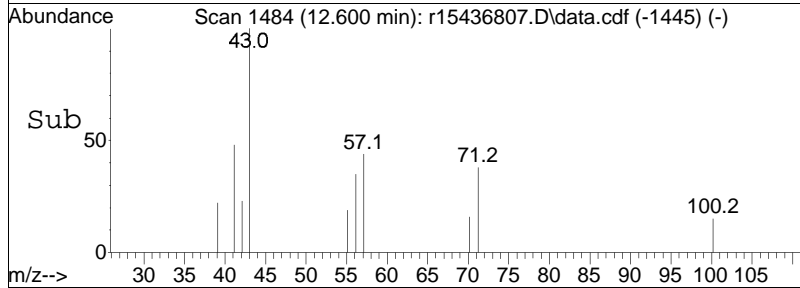
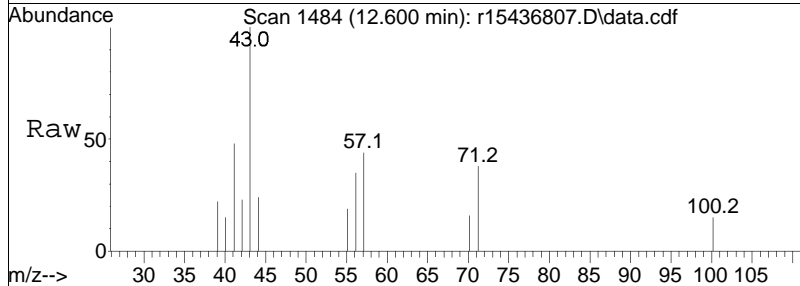
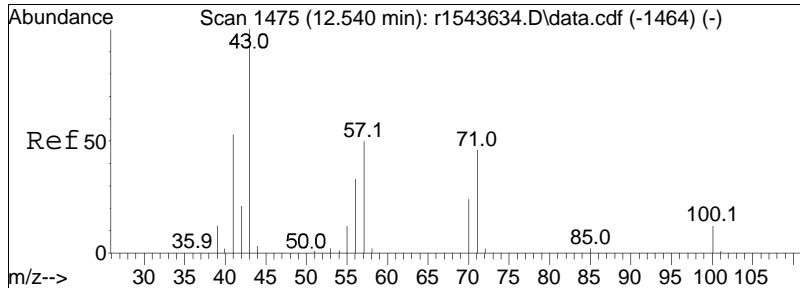




#59
 trichloroethene
 Concen: 0.04 ppbV
 RT: 12.253 min Scan# 1432
 Delta R.T. 0.080 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

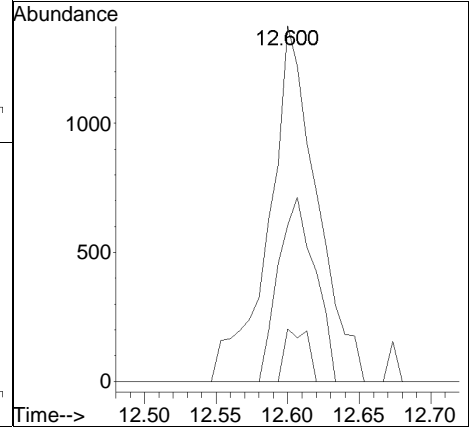
Tgt Ion	Resp	Lower	Upper
130	100		
132	89.6	74.4	111.6
97	53.9	50.4	75.6

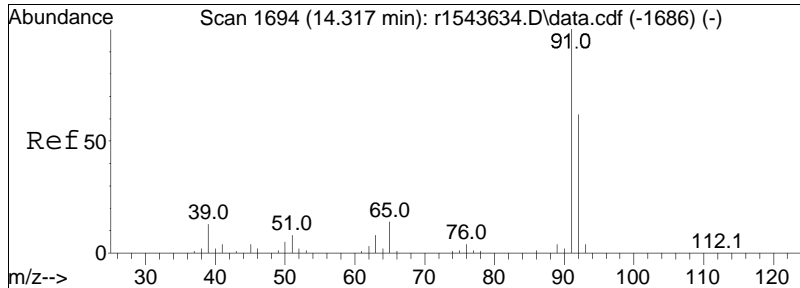




#62
 heptane
 Concen: 0.06 ppbV
 RT: 12.600 min Scan# 1484
 Delta R.T. 0.060 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

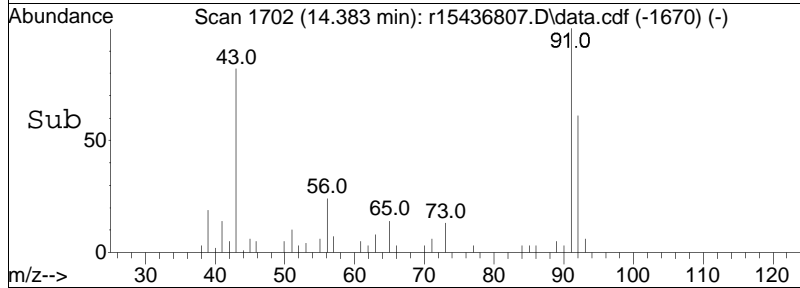
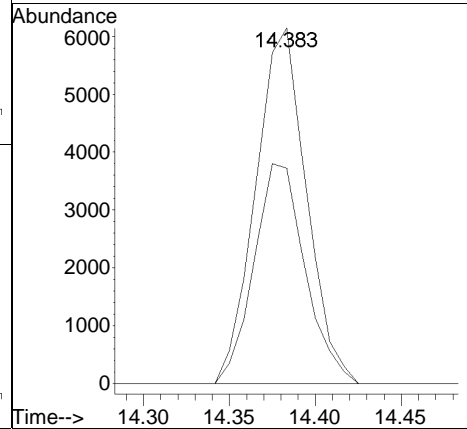
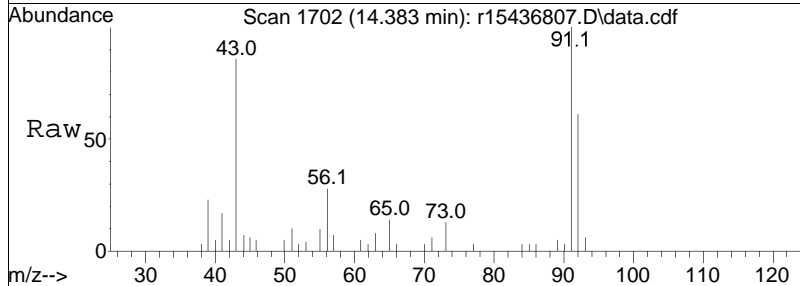
Tgt Ion:	43	Resp:	3201
Ion Ratio	100	Lower	Upper
43	100		
57	44.0	39.8	59.6
100	14.8	9.8	14.8#

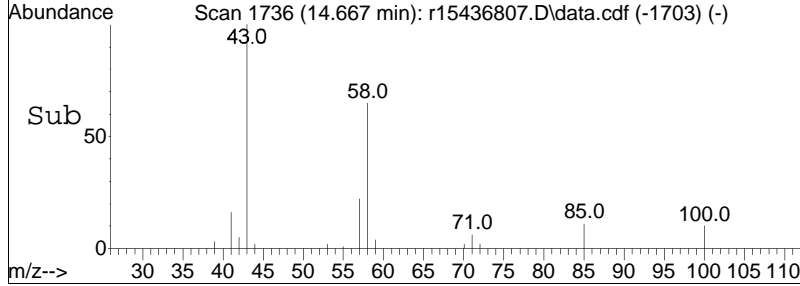
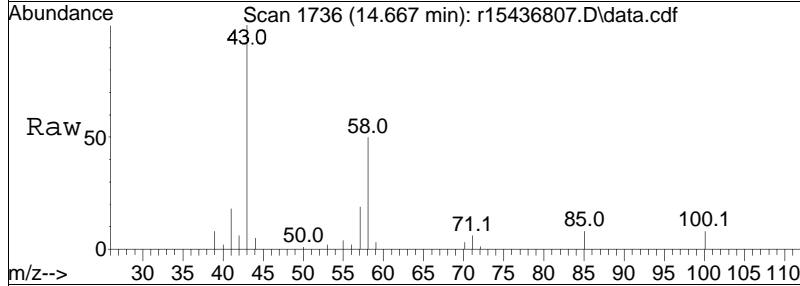
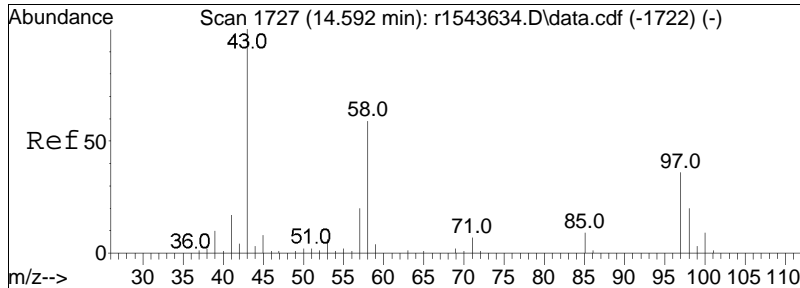




#68
 toluene
 Concen: 0.16 ppbV
 RT: 14.383 min Scan# 1702
 Delta R.T. 0.067 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

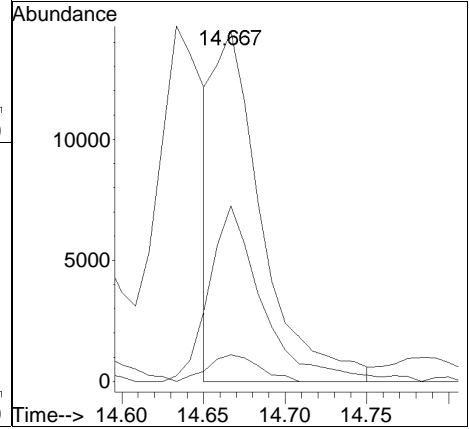
Tgt Ion:	Resp:	Lower	Upper
91	12611		
92	60.5	49.3	73.9

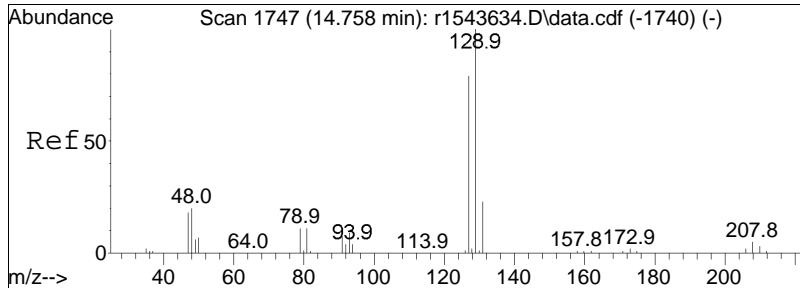




#72
 2-hexanone
 Concen: 0.55 ppbV m
 RT: 14.667 min Scan# 1736
 Delta R.T. 0.075 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

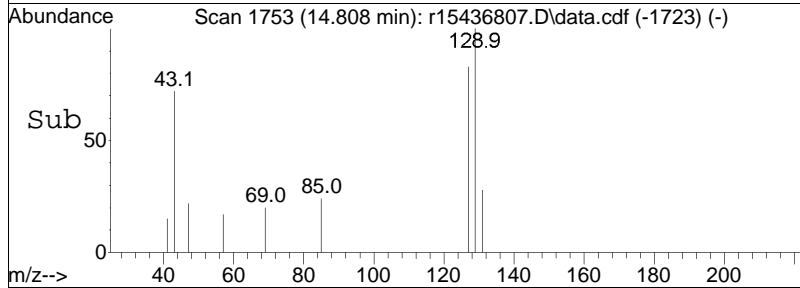
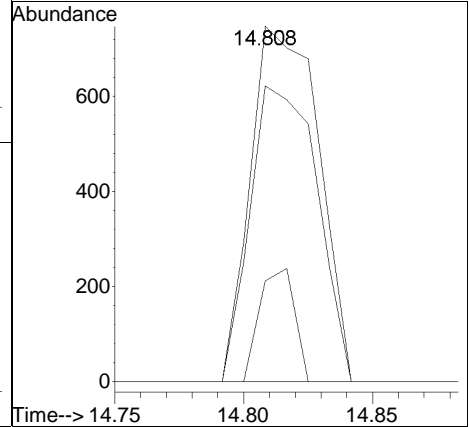
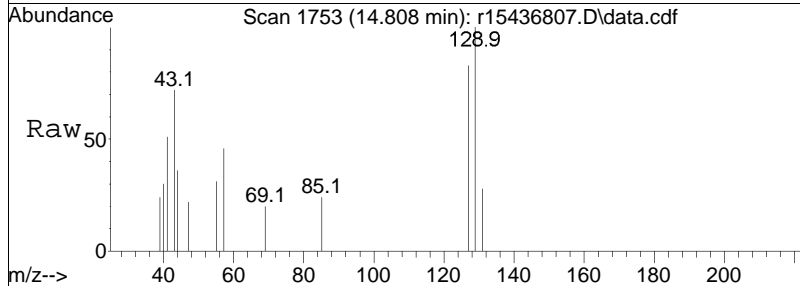
Tgt Ion	Resp	Lower	Upper
43	29742		
58	50.2	47.5	71.3
100	7.6	7.8	11.6#

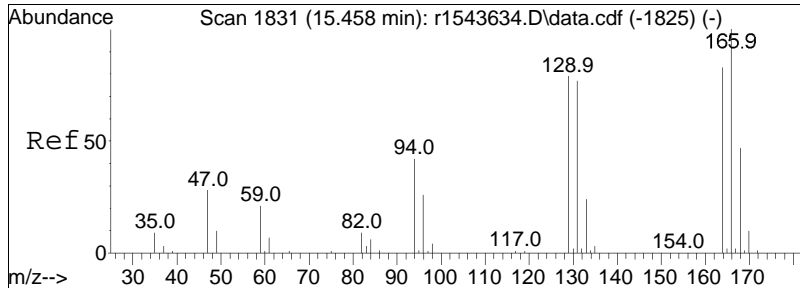




#74
 dibromochloromethane
 Concen: 0.04 ppbV
 RT: 14.808 min Scan# 1753
 Delta R.T. 0.050 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

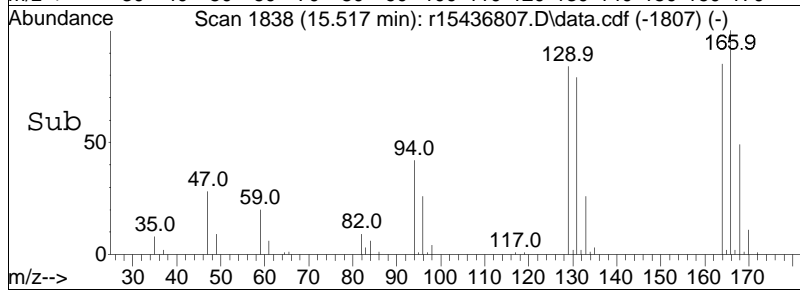
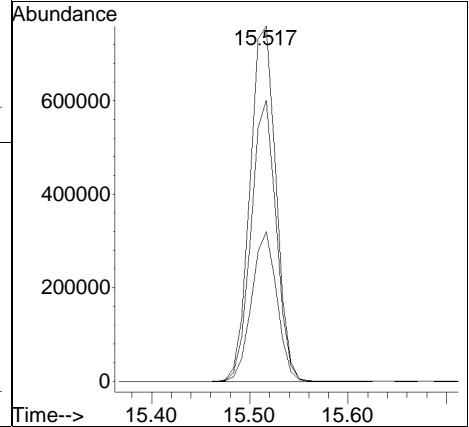
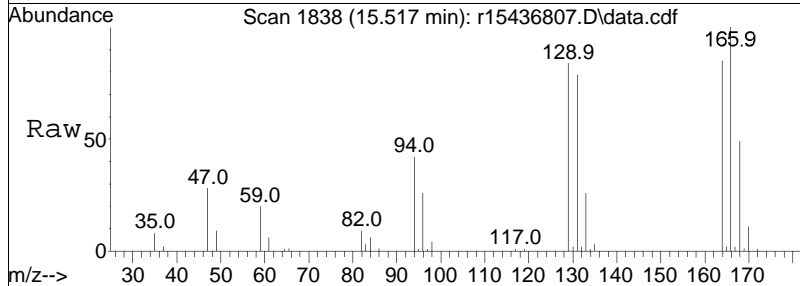
Tgt Ion	Ratio	Lower	Upper
129	100		
127	83.2	62.9	94.3
131	28.3	18.2	27.2#

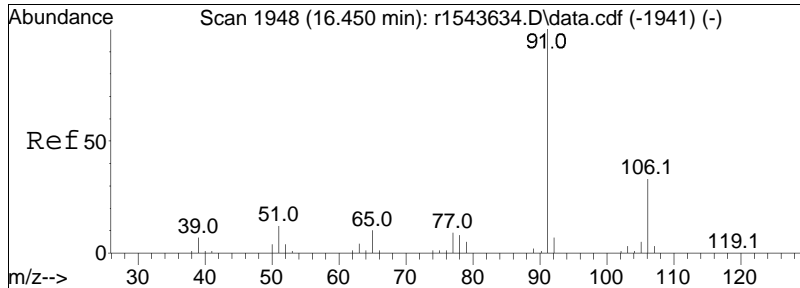




#78
 tetrachloroethene
 Concen: 52.26 ppbV
 RT: 15.517 min Scan# 1838
 Delta R.T. 0.058 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

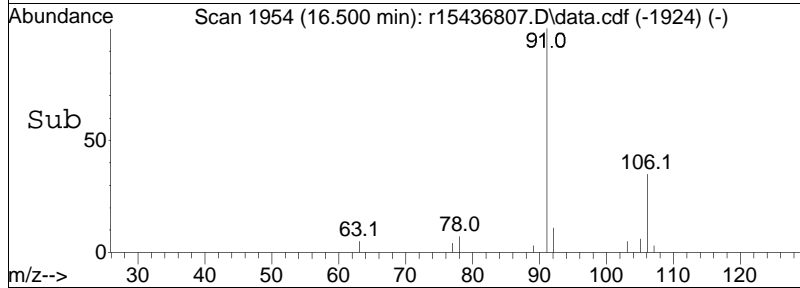
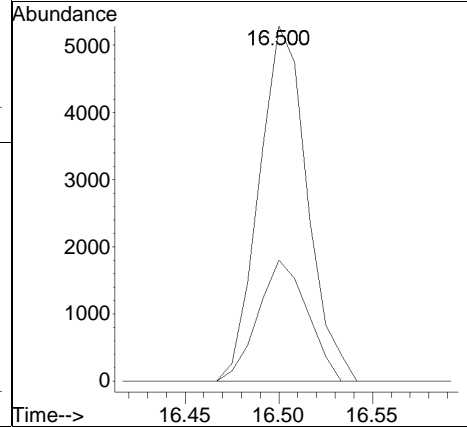
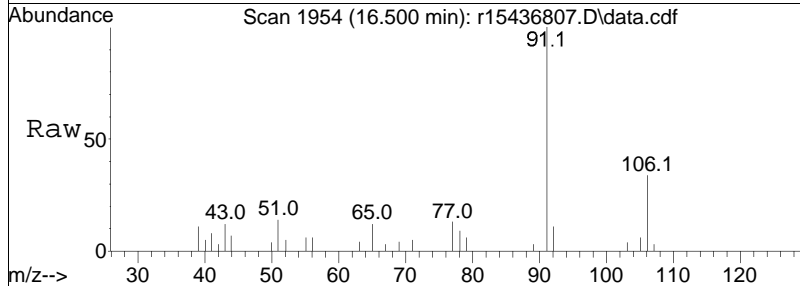
Tgt Ion	Resp	Lower	Upper
166	1398757		
166	100		
131	79.1	61.6	92.4
94	42.1	34.0	51.0

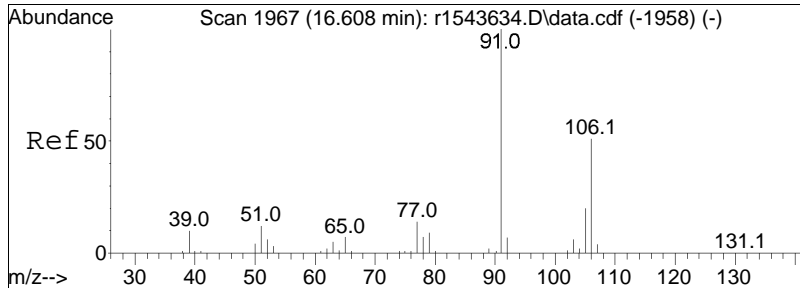




#81
 ethylbenzene
 Concen: 0.10 ppbV
 RT: 16.500 min Scan# 1954
 Delta R.T. 0.050 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

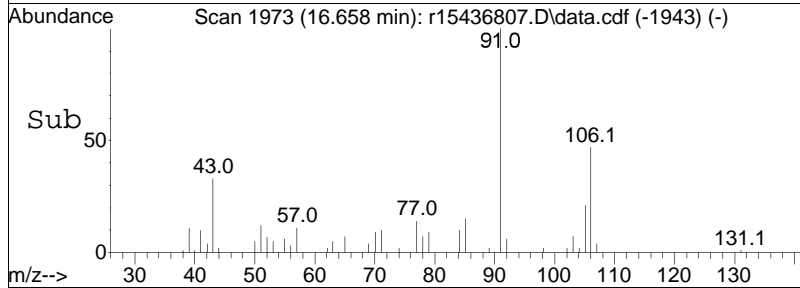
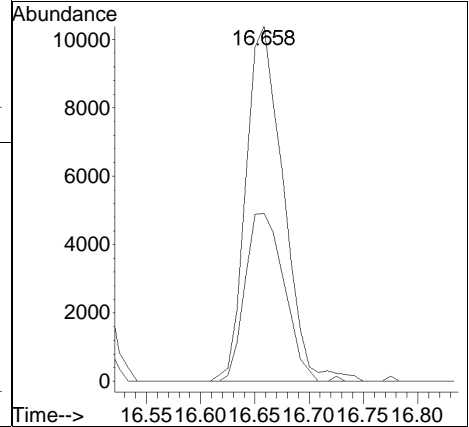
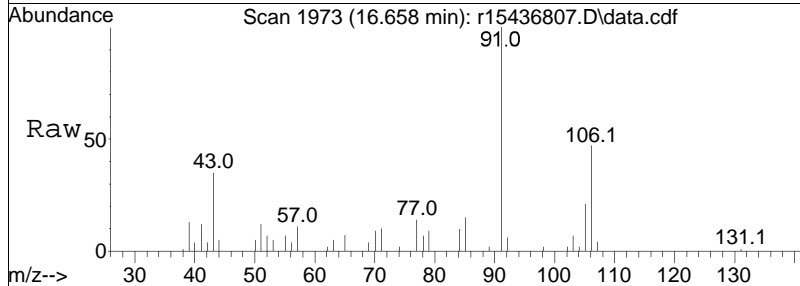
Tgt Ion: 91 Resp: 9452
 Ion Ratio Lower Upper
 91 100
 106 34.1 26.4 39.6

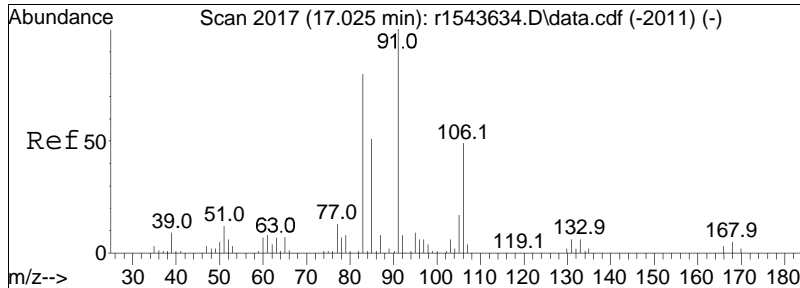




#83
 m+p-xylene
 Concen: 0.32 ppbV
 RT: 16.658 min Scan# 1973
 Delta R.T. 0.050 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

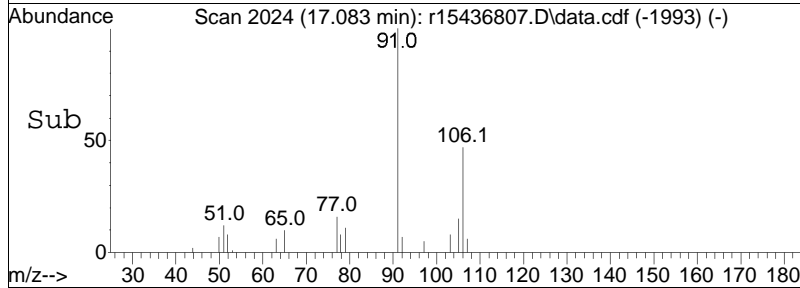
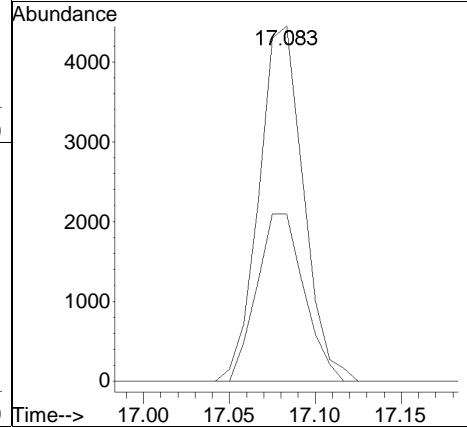
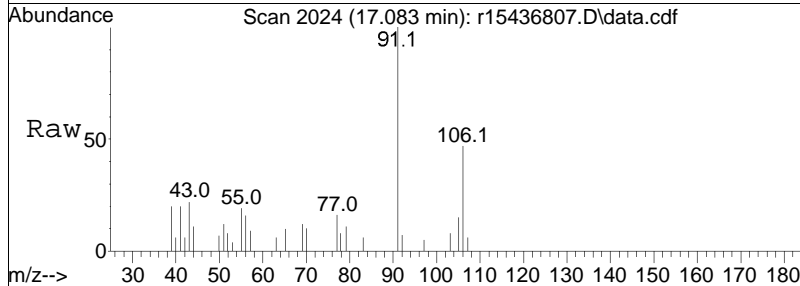
Tgt Ion	Resp	Lower	Upper
91	100		
106	47.3	40.4	60.6

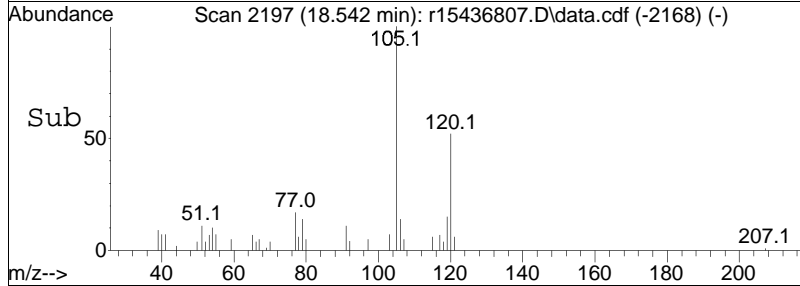
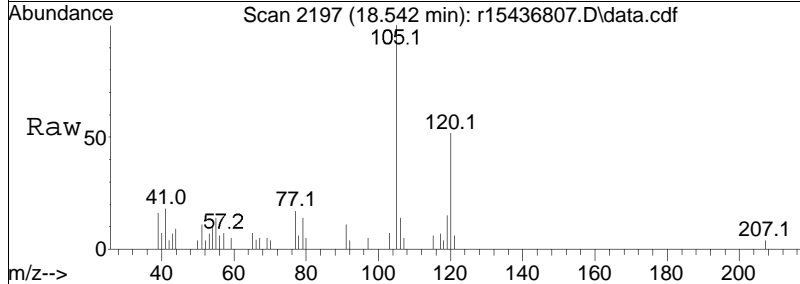
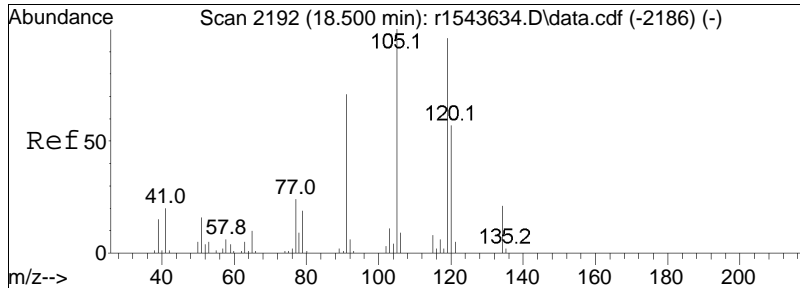




#87
 o-xylene
 Concen: 0.10 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

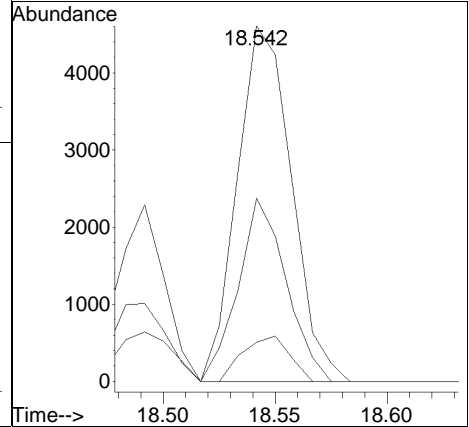
Tgt Ion: 91 Resp: 8005
 Ion Ratio Lower Upper
 91 100
 106 47.1 39.1 58.7

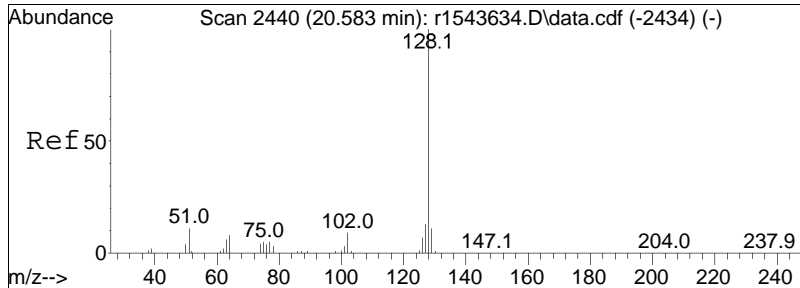




#99
 1,2,4-trimethylbenzene
 Concen: 0.09 ppbV m
 RT: 18.542 min Scan# 2197
 Delta R.T. 0.042 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

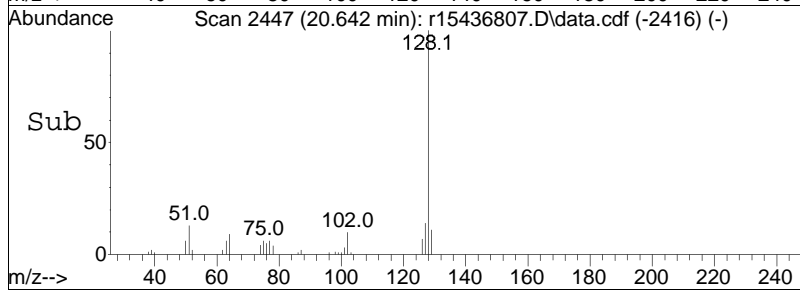
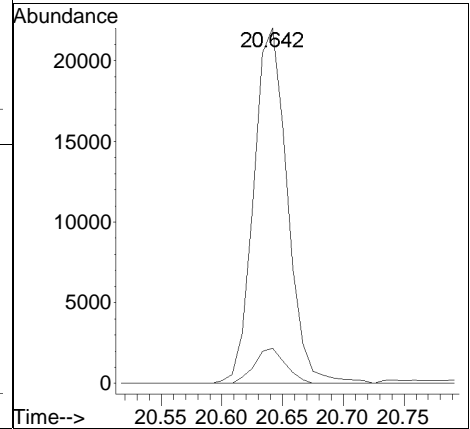
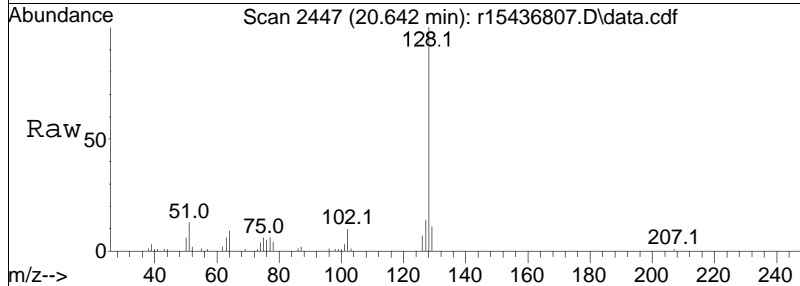
Tgt Ion	Ratio	Lower	Upper
105	100		
120	51.5	45.8	68.8
91	11.0	56.7	85.1#





#116
 naphthalene
 Concen: 0.43 ppbV
 RT: 20.642 min Scan# 2447
 Delta R.T. 0.058 min
 Lab File: r15436807.D
 Acq: 30 Mar 2024 3:45 AM

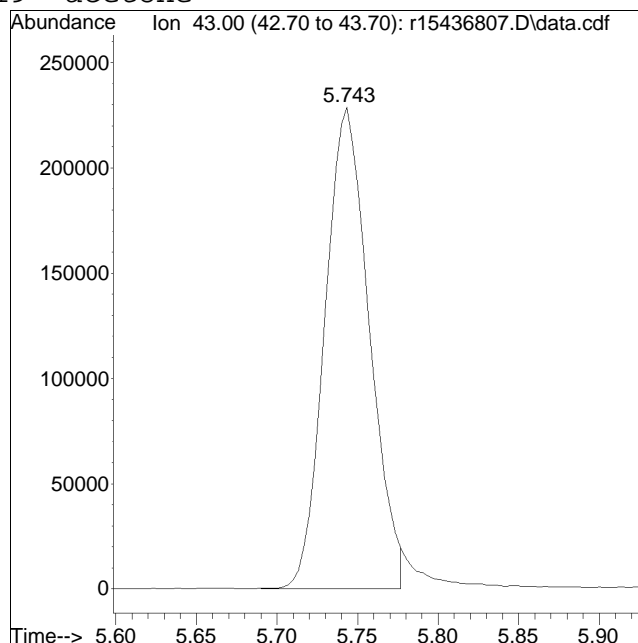
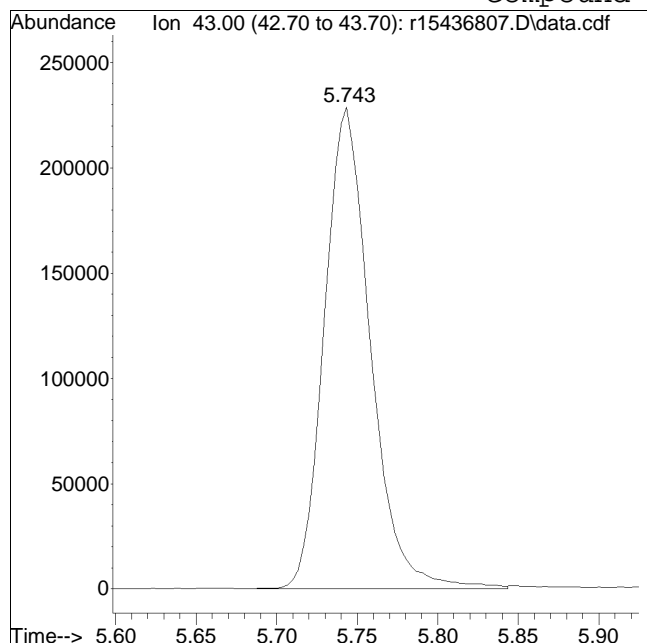
Tgt Ion:	128	Resp:	42484
Ion Ratio	Lower	Upper	
128	100		
102	9.9	6.8	10.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #19: acetone



Original Peak Response = 456345

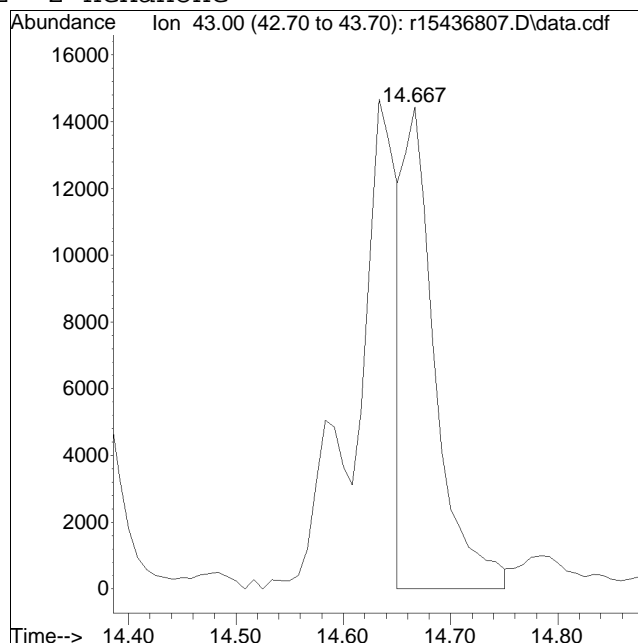
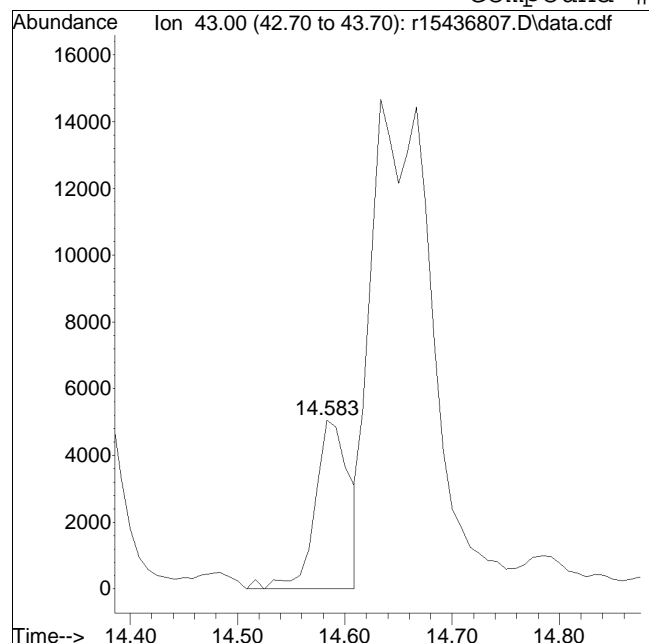
Manual Peak Response = 438288 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #72: 2-hexanone



Original Peak Response = 11305

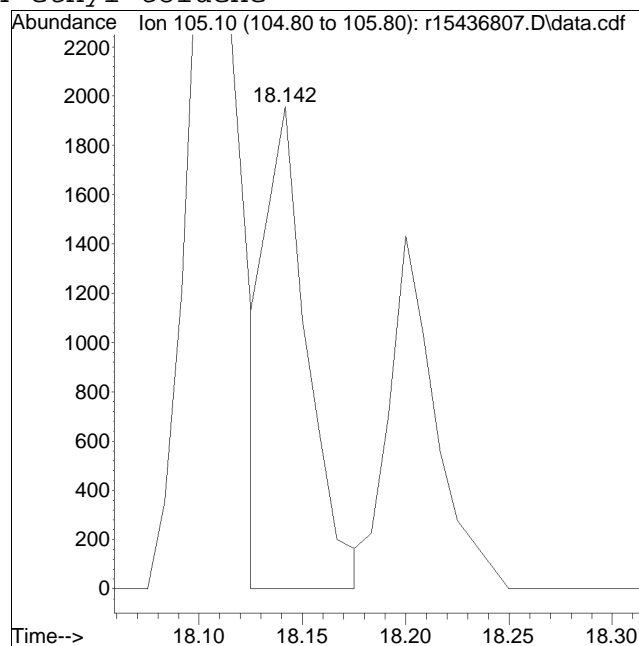
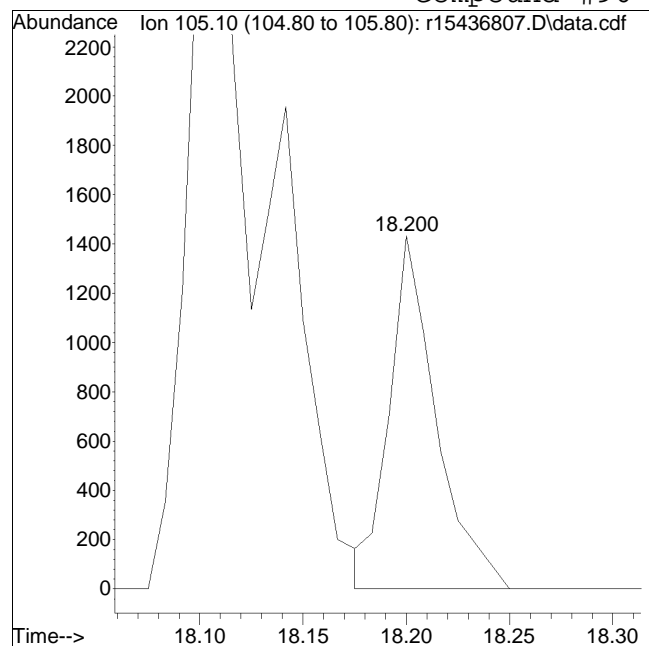
Manual Peak Response = 29742 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #96: 4-ethyl toluene



Original Peak Response = 2726

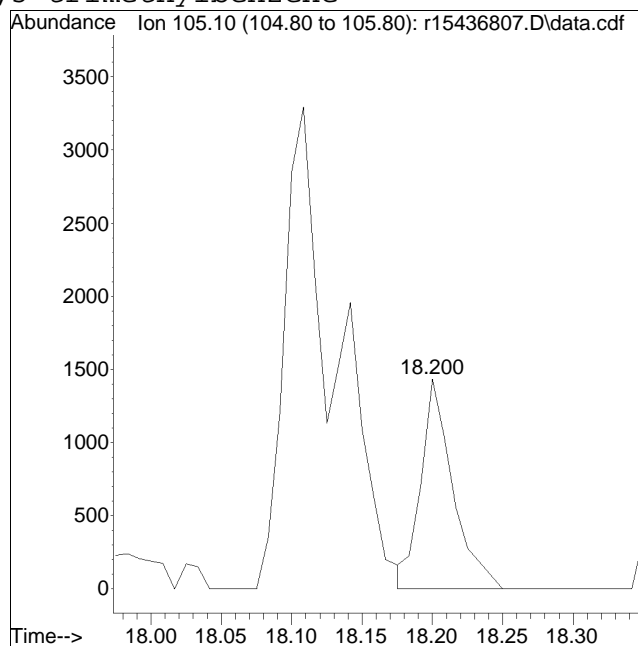
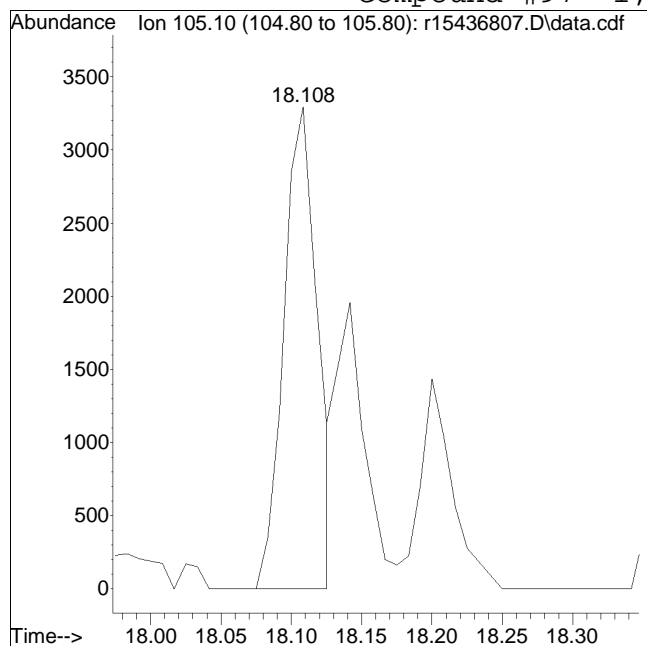
Manual Peak Response = 2785 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 5478

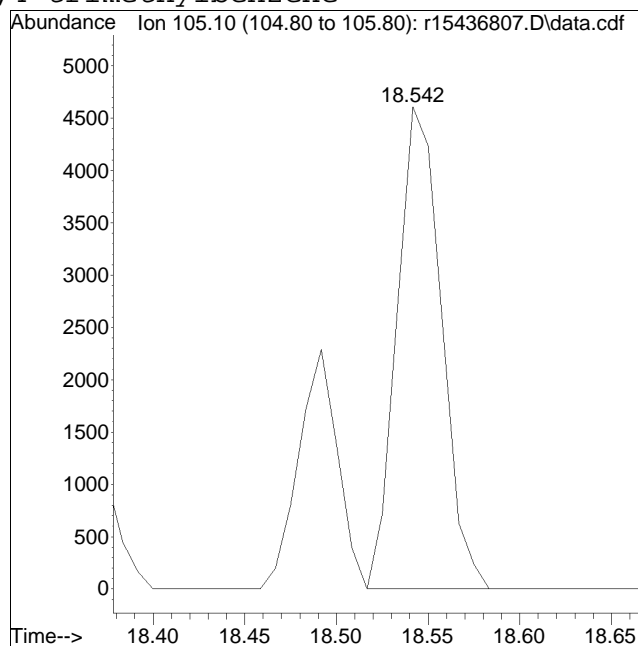
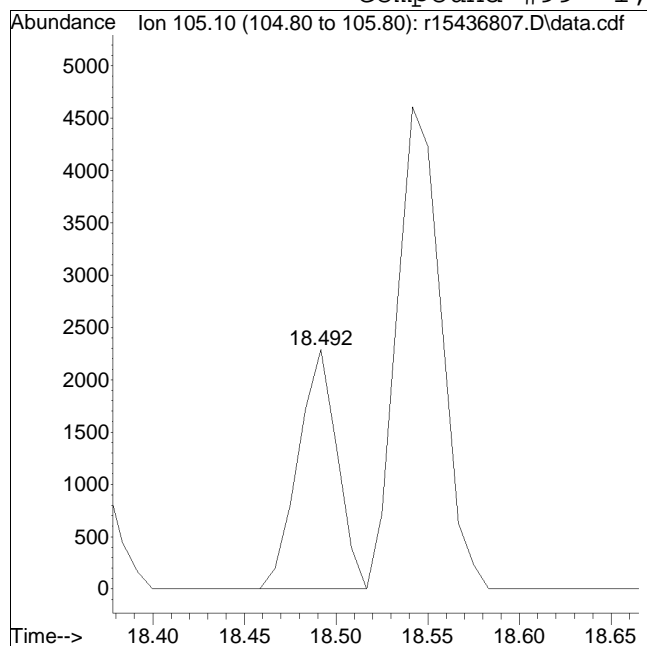
Manual Peak Response = 2726 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 3396

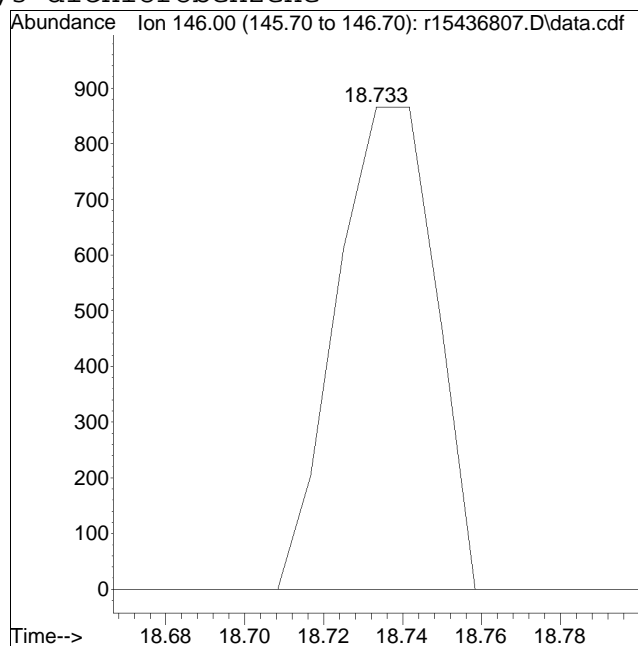
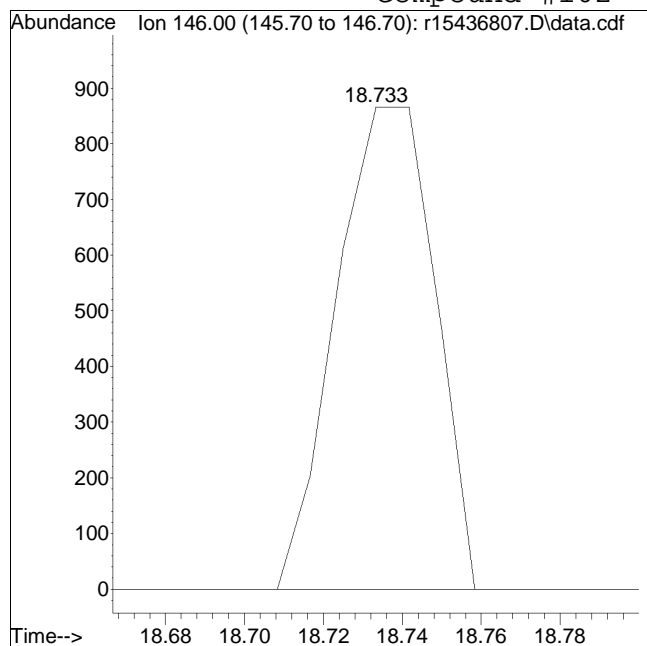
Manual Peak Response = 7778 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436807.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:3: 5 Instrument :
Sample : L2414212-10,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 1507

Manual Peak Response = 1507 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436808.D
 Acq On : 30 Mar 2024 4:27 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-11,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:21 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.208	49	366814	10.000	ppbV	0.07
Standard Area =	358796		Recovery =	102.23%		
43) 1,4-difluorobenzene	11.440	114	771010	10.000	ppbV	0.07
Standard Area =	735074		Recovery =	104.89%		
67) chlorobenzene-D5	16.117	54	185268	10.000	ppbV	0.05
Standard Area =	162298		Recovery =	114.15%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.054	85	19097	0.470	ppbV	99
6) chloromethane	4.222	50	2508	0.109	ppbV	90
7) Freon-114	4.336		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	5.086	64	15623	1.329	ppbV	98
15) ethanol	5.230	31	200448	8.820	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.740	43	820519M6	28.587	ppbV	
21) trichlorofluoromethane	5.933	101	5870	0.204	ppbV	96
22) isopropyl alcohol	6.043	45	25032	0.643	ppbV	98
26) 1,1-dichloroethene	6.582		0	N.D.		
27) tertiary butyl alcohol	6.720	59	113980	2.828	ppbV	93
28) methylene chloride	6.786	49	4733	0.167	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.092	76	489916	8.524	ppbV	99
31) Freon 113	7.092	101	2465	0.076	ppbV	94
32) trans-1,2-dichloroethene	7.842		0	N.D.		
33) 1,1-dichloroethane	8.075		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	8.525	43	332951	6.591	ppbV	99
37) cis-1,2-dichloroethene	9.025	61	8412	0.288	ppbV	87
38) Ethyl Acetate	9.300	61	302	0.039	ppbV #	1
39) chloroform	9.367	83	586437	14.978	ppbV	99
40) Tetrahydrofuran	9.833	42	12907	0.427	ppbV #	93
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.275	57	4214	0.102	ppbV #	18

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436808.D
 Acq On : 30 Mar 2024 4:27 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-11,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:21 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	10.508		0		N.D.	
50) benzene	11.020	78	18112	0.255	ppbV	98
52) carbon tetrachloride	11.193	117	3362	0.121	ppbV	91
53) cyclohexane	11.287		0		N.D.	
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	12.200	83	39547	1.011	ppbV	99
58) 1,4-dioxane	12.273		0		N.D.	
59) trichloroethene	12.247	130	12593	0.535	ppbV	98
60) 2,2,4-trimethylpentane	12.233		0		N.D.	
62) heptane	12.607	43	7206	0.139	ppbV	97
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.383	91	32846	0.385	ppbV	98
72) 2-hexanone	0.000		0		N.D. d	
74) dibromochloromethane	14.817	129	4218	0.125	ppbV	95
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	15.517	166	85162	2.883	ppbV	94
80) chlorobenzene	16.150	112	2685	0.042	ppbV	96
81) ethylbenzene	16.500	91	18329	0.174	ppbV	99
83) m+p-xylene	16.650	91	46912	0.548	ppbV	100
84) bromoform	16.733		0		N.D.	
85) styrene	16.983	104	3661	0.058	ppbV #	90
86) 1,1,2,2-tetrachloroethane	17.000		0		N.D.	
87) o-xylene	17.083	91	15926	0.185	ppbV	96
96) 4-ethyl toluene	18.142	105	3718M3	0.033	ppbV	
97) 1,3,5-trimethylbenzene	18.200	105	3808	0.036	ppbV	99
99) 1,2,4-trimethylbenzene	18.542	105	10467M3	0.106	ppbV	
101) Benzyl Chloride	18.658		0		N.D.	
102) 1,3-dichlorobenzene	18.683		0		N.D.	
103) 1,4-dichlorobenzene	18.733		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	20.525		0		N.D.	
116) naphthalene	20.642	128	3797	0.035	ppbV	98
119) hexachlorobutadiene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436808.D
Acq On : 30 Mar 2024 4:27 AM
Operator : AIRLAB15:BJB
Sample : L2414212-11,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:21 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

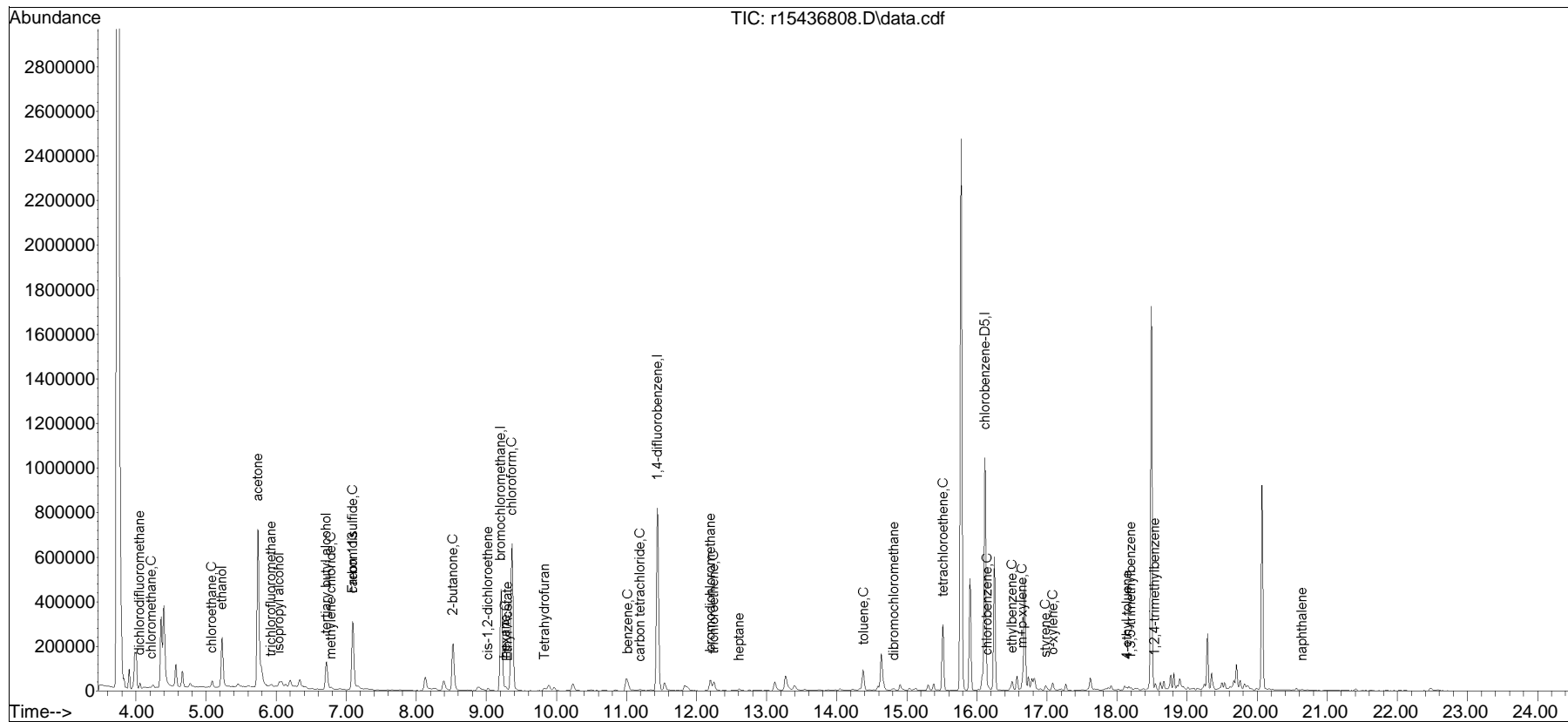
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : TO15-NY+Naphthalene - .

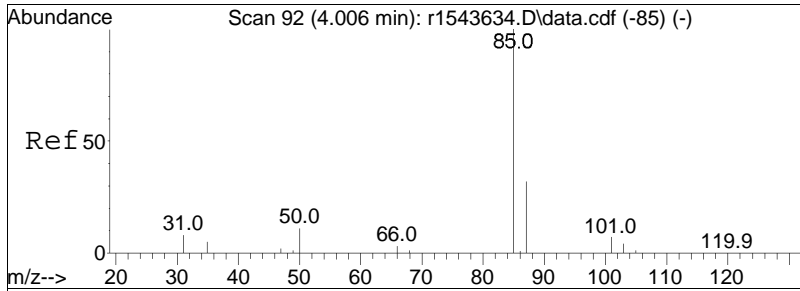
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b15\2024\03\0329T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436808.D
Acq On : 30 Mar 2024 4:27 AM
Operator : AIRLAB15:BJB
Sample : L2414212-11,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

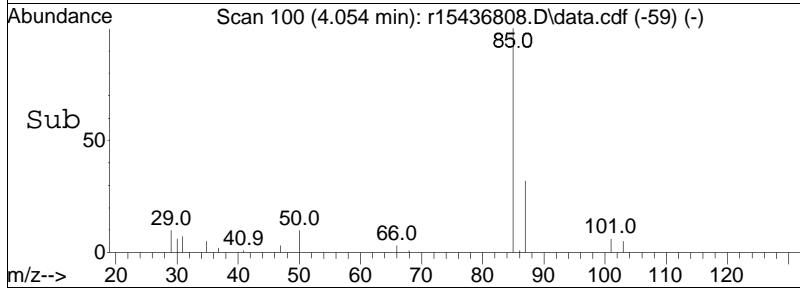
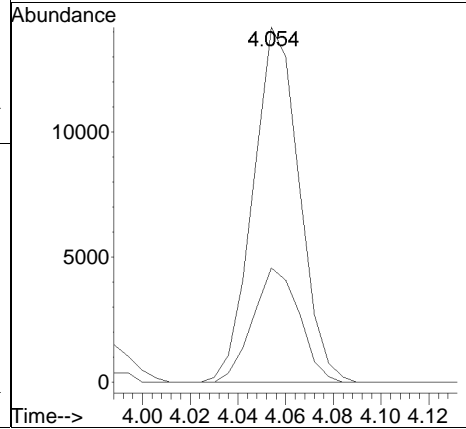
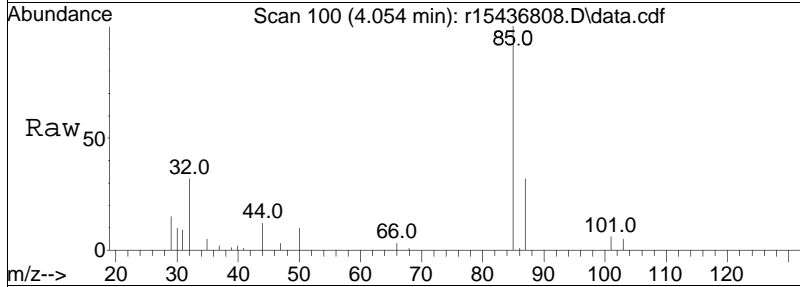
Quant Time: Mar 30 07:30:21 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

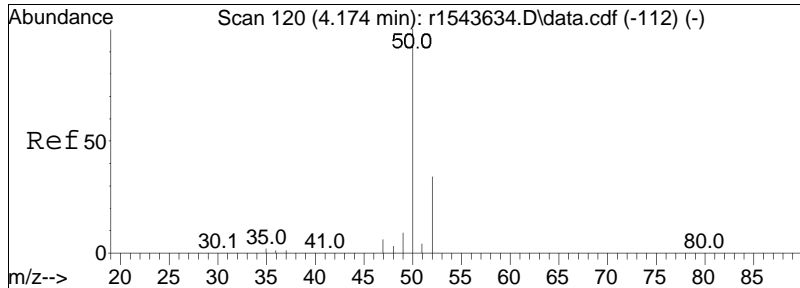




#5
 dichlorodifluoromethane
 Concen: 0.47 ppbV
 RT: 4.054 min Scan# 100
 Delta R.T. 0.048 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

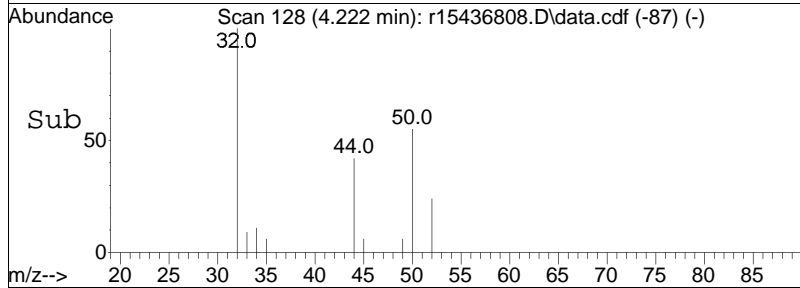
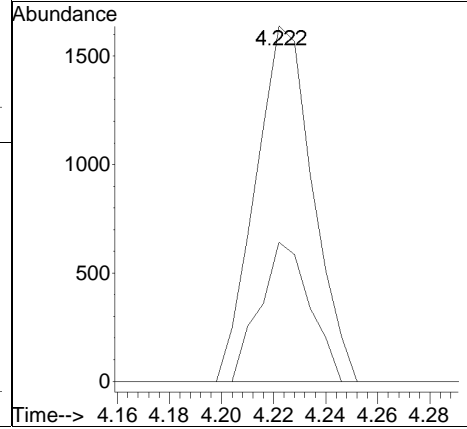
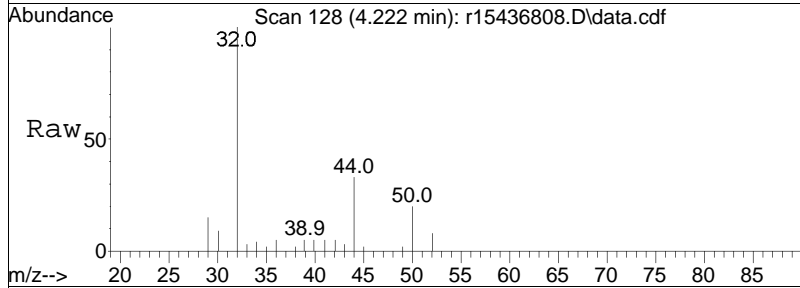
Tgt Ion: 85 Resp: 19097
 Ion Ratio Lower Upper
 85 100
 87 32.2 25.5 38.3

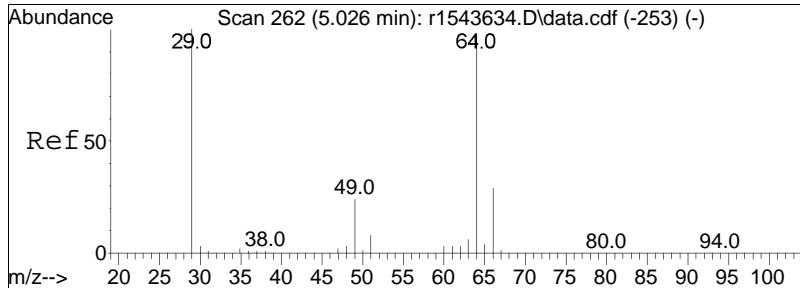




#6
 chloromethane
 Concen: 0.11 ppbV
 RT: 4.222 min Scan# 128
 Delta R.T. 0.048 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

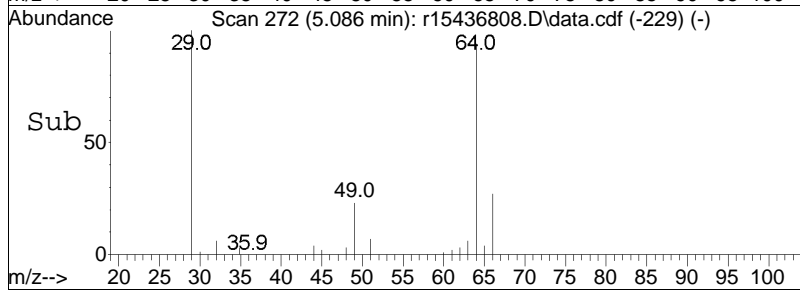
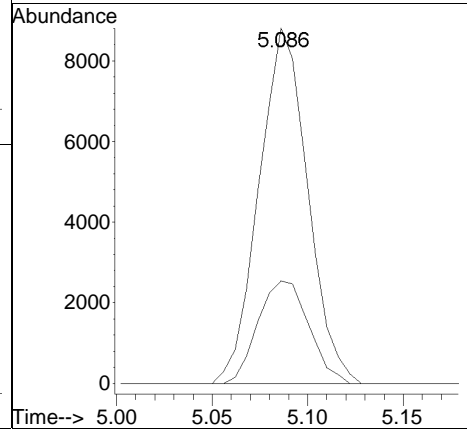
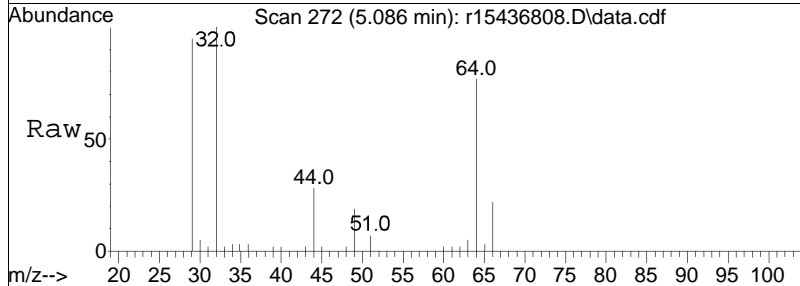
Tgt Ion	Resp	Lower	Upper
50	100		
52	39.2	27.0	40.4

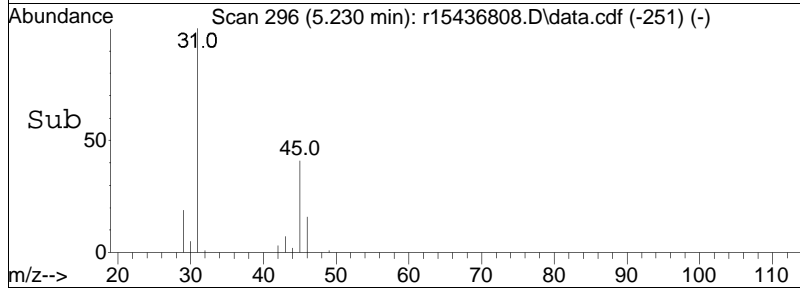
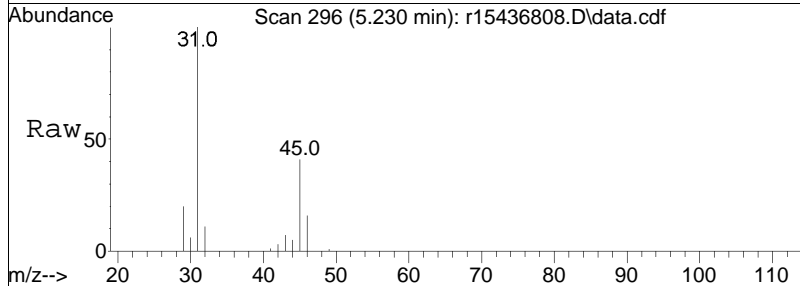
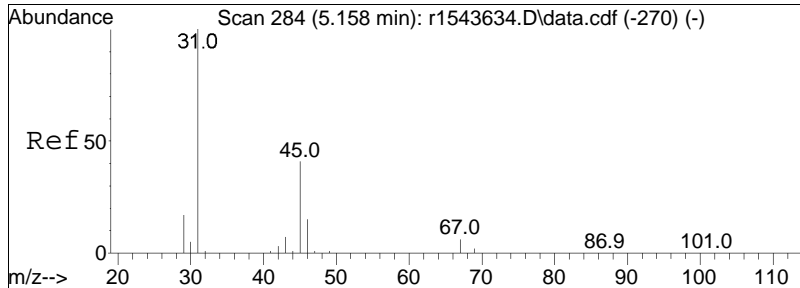




#14
 chloroethane
 Concen: 1.33 ppbV
 RT: 5.086 min Scan# 272
 Delta R.T. 0.060 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

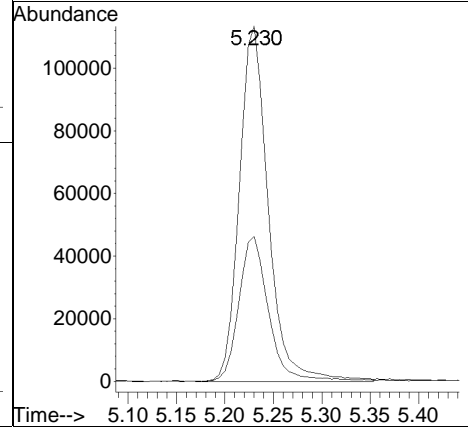
Tgt Ion:	Resp:	Lower	Upper
64	15623		
66	28.9	24.2	36.2

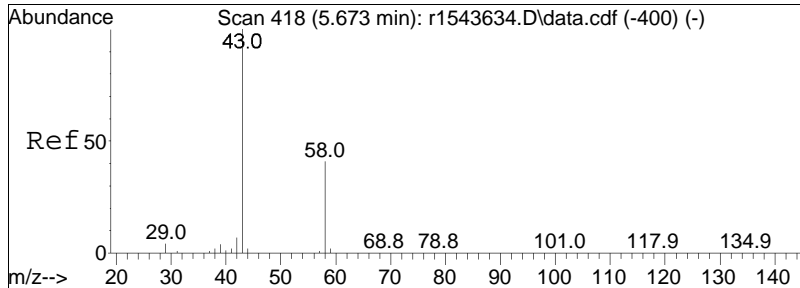




#15
 ethanol
 Concen: 8.82 ppbV
 RT: 5.230 min Scan# 296
 Delta R.T. 0.072 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

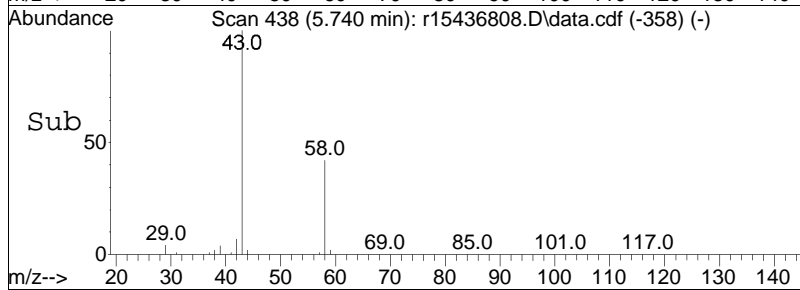
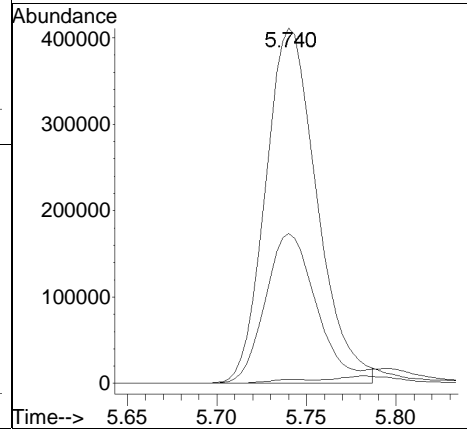
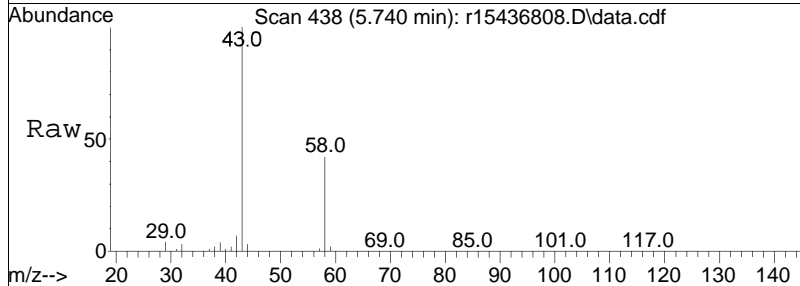
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
31	100		
45	40.9	33.0	49.4

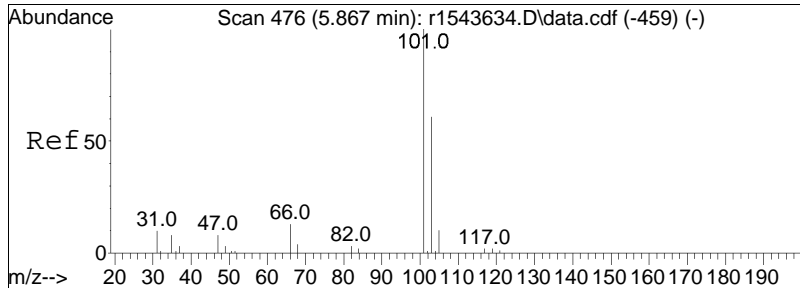




#19
 acetone
 Concen: 28.59 ppbV m
 RT: 5.740 min Scan# 438
 Delta R.T. 0.067 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

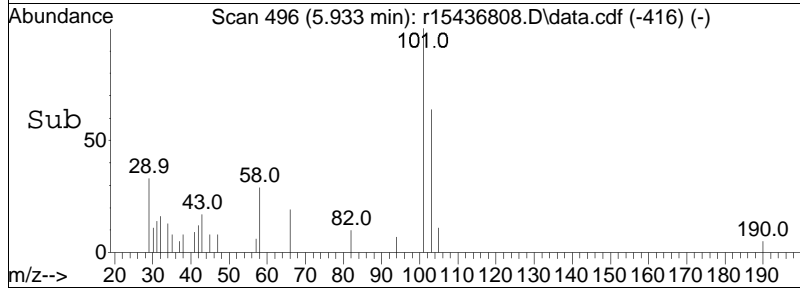
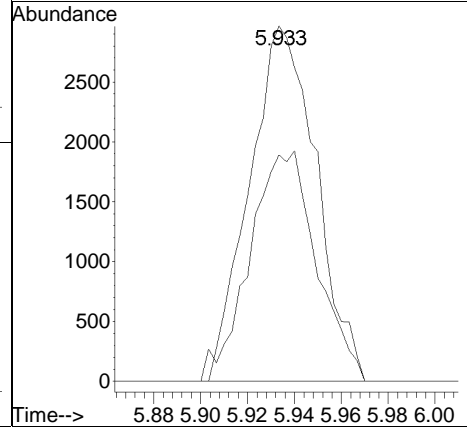
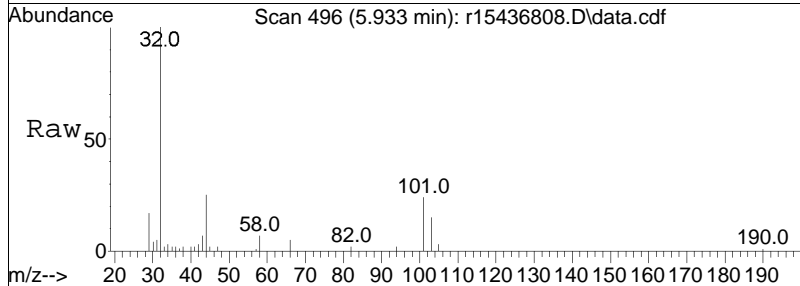
Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.2	33.2	49.8
57	1.1	0.9	1.3

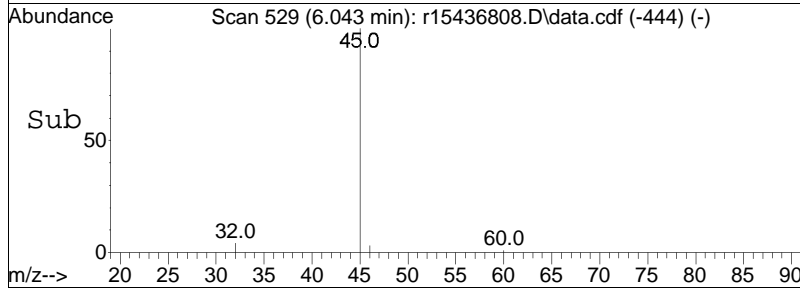
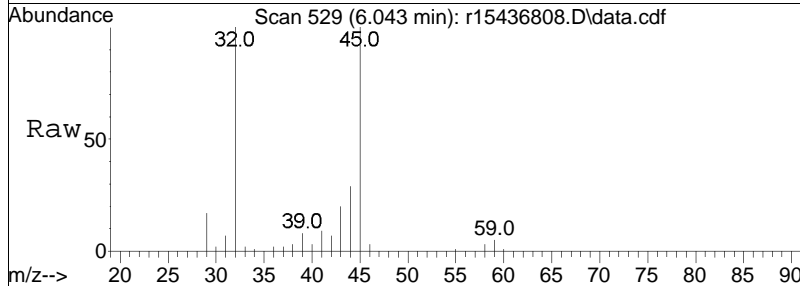
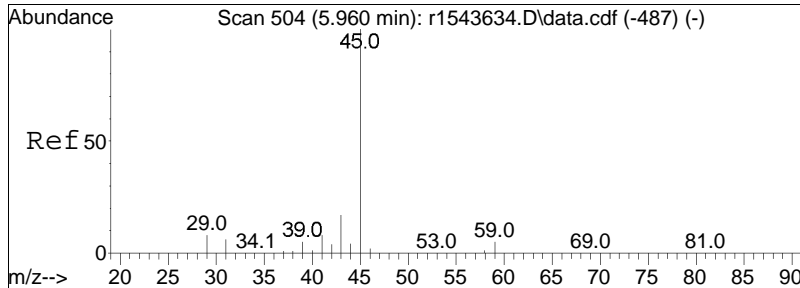




#21
 trichlorofluoromethane
 Concen: 0.20 ppbV
 RT: 5.933 min Scan# 496
 Delta R.T. 0.067 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

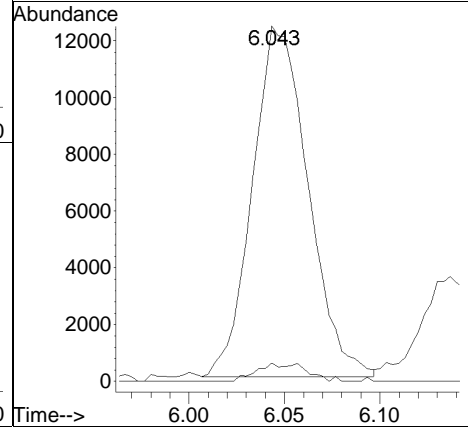
Tgt Ion	Resp	Lower	Upper
101	5870		
101	100		
103	63.7	48.6	73.0

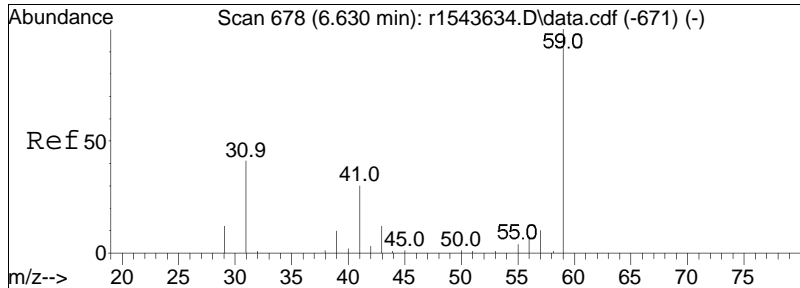




#22
 isopropyl alcohol
 Concen: 0.64 ppbV
 RT: 6.043 min Scan# 529
 Delta R.T. 0.083 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

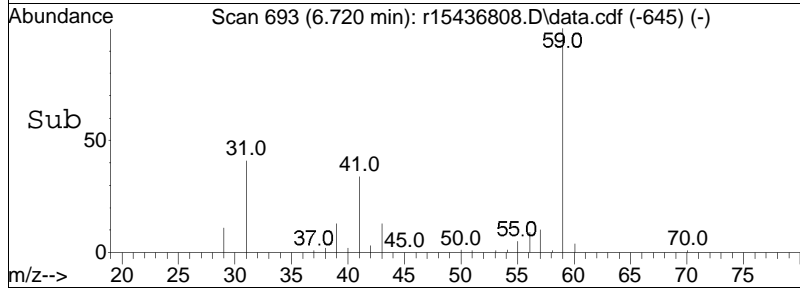
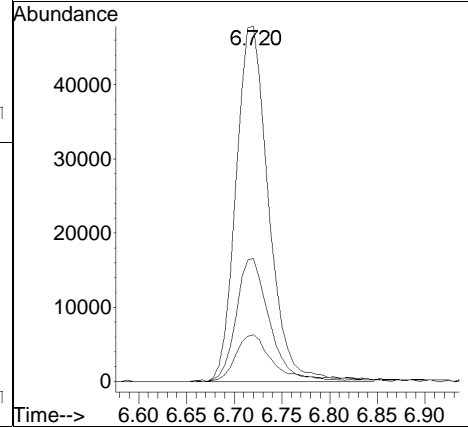
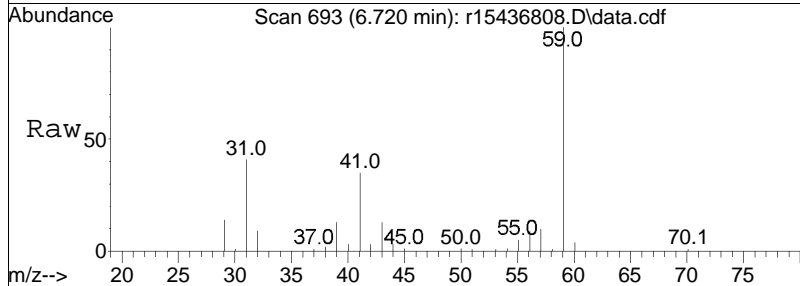
Tgt Ion:	45	59	Resp:	25032	Lower	Upper
Ion Ratio	100	5.2			3.6	5.4

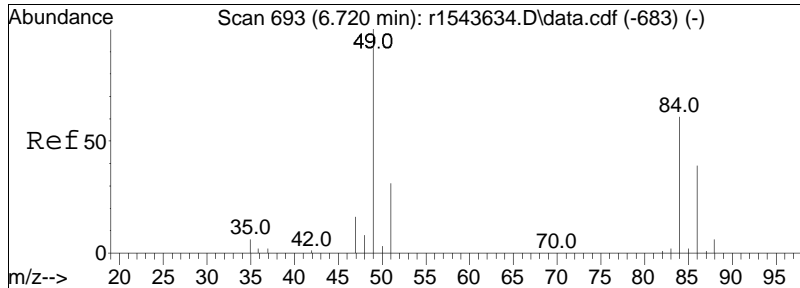




#27
 tertiary butyl alcohol
 Concen: 2.83 ppbV
 RT: 6.720 min Scan# 693
 Delta R.T. 0.090 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

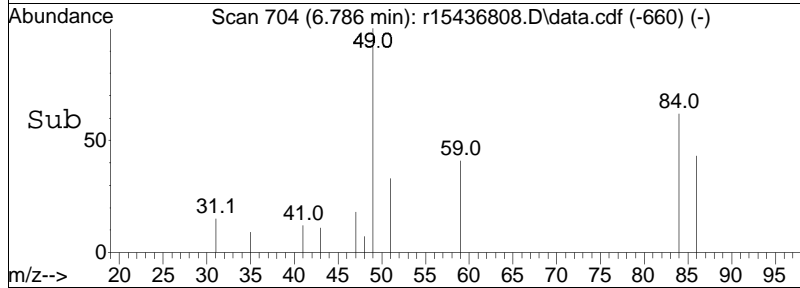
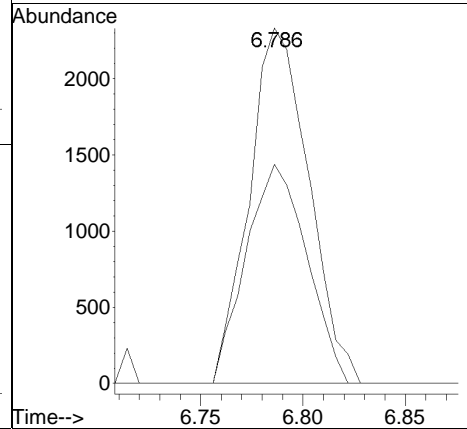
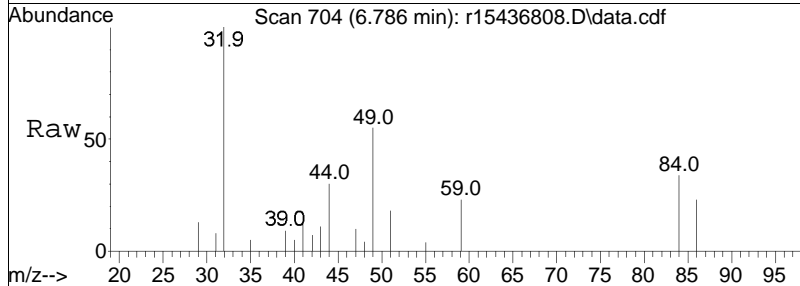
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
59	100		
41	34.6	23.6	35.4
43	13.1	9.8	14.6

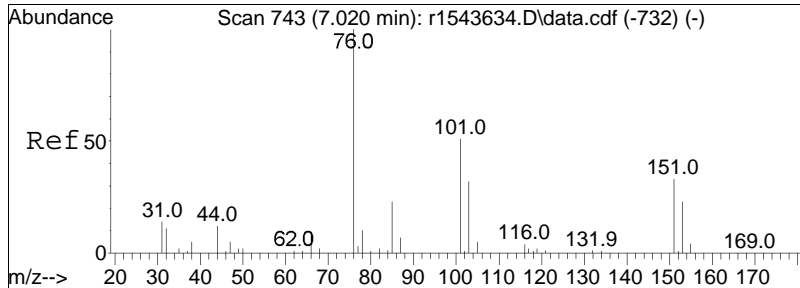




#28
 methylene chloride
 Concen: 0.17 ppbV
 RT: 6.786 min Scan# 704
 Delta R.T. 0.066 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

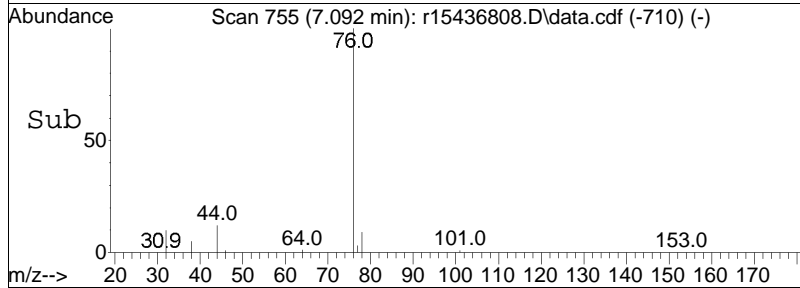
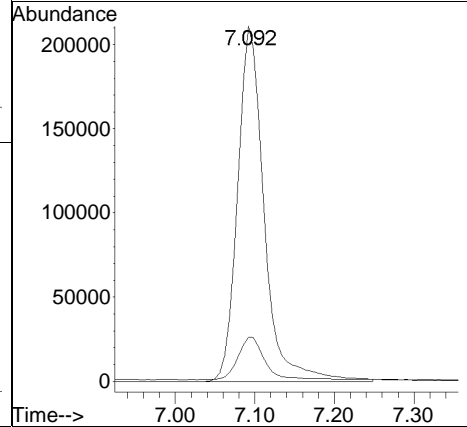
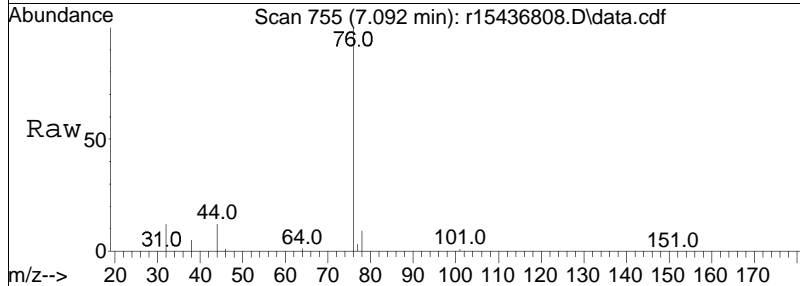
Tgt Ion: 49 Resp: 4733
 Ion Ratio Lower Upper
 49 100
 84 61.7 48.8 73.2

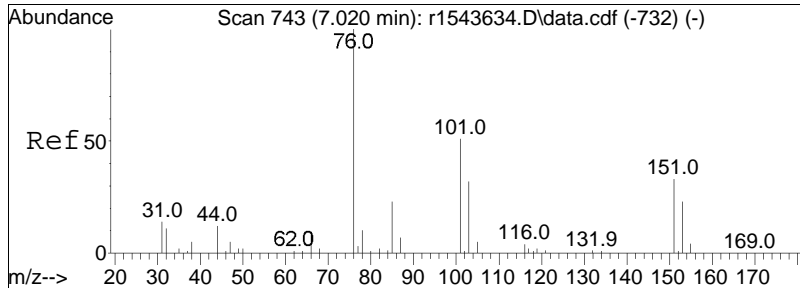




#30
 carbon disulfide
 Concen: 8.52 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

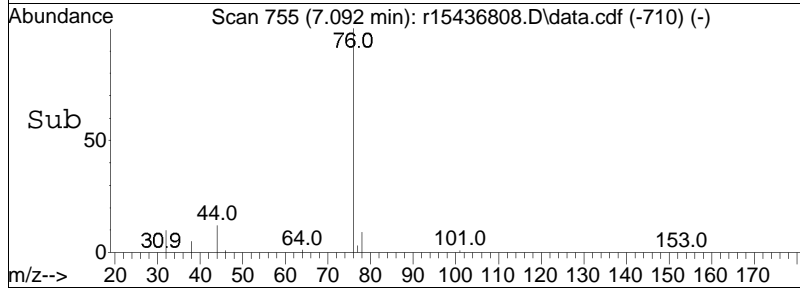
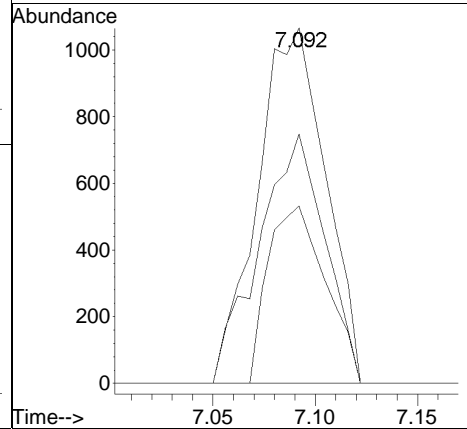
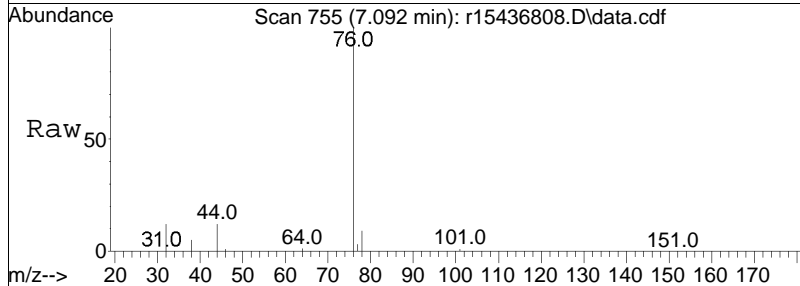
Tgt Ion:	76	Resp:	489916
Ion Ratio	100	Lower	Upper
44	12.4	9.8	14.6

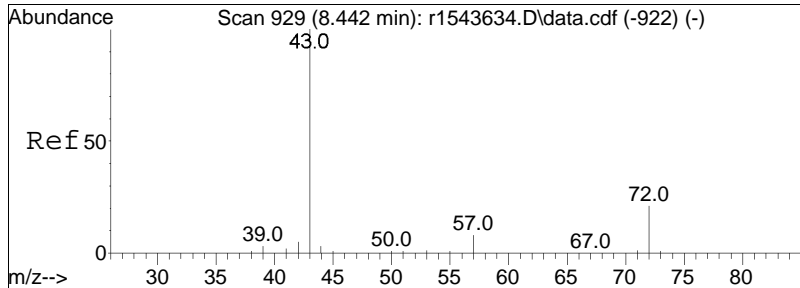




#31
 Freon 113
 Concen: 0.08 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

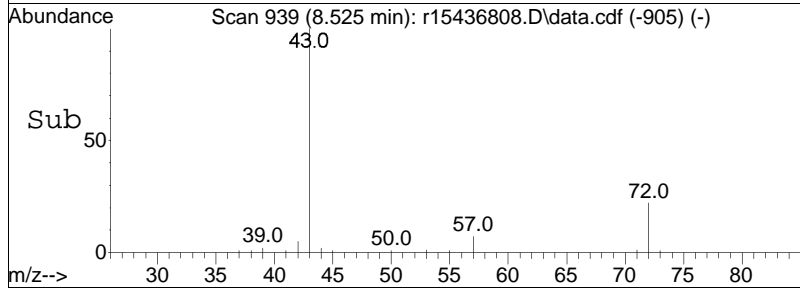
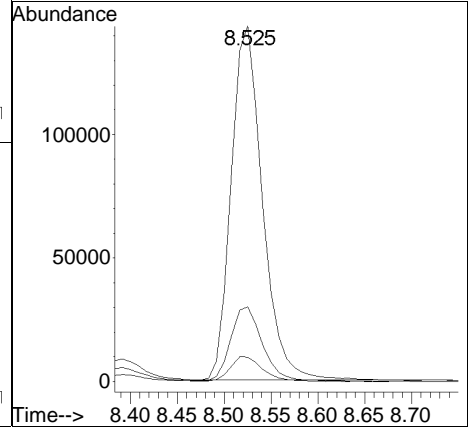
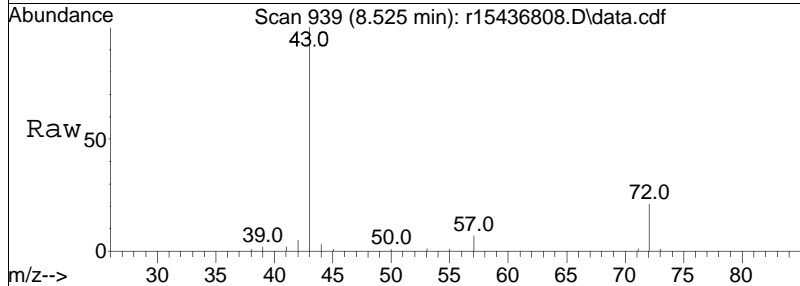
Tgt Ion	Ratio	Lower	Upper	Resp
101	100			2465
85	49.9	36.6	55.0	
151	70.2	52.3	78.5	

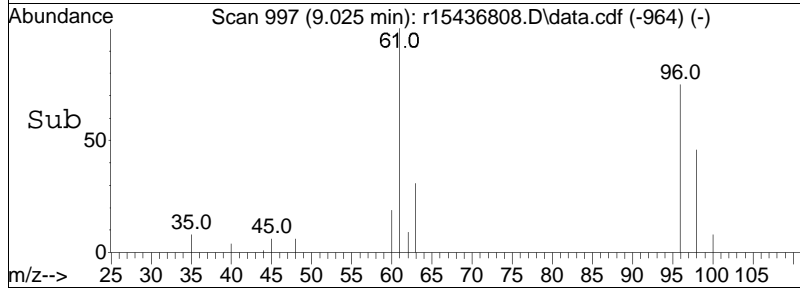
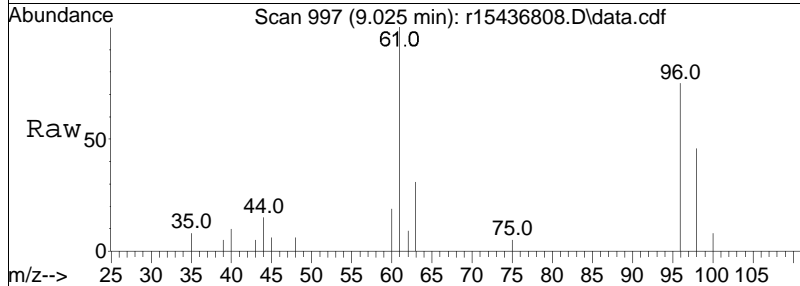
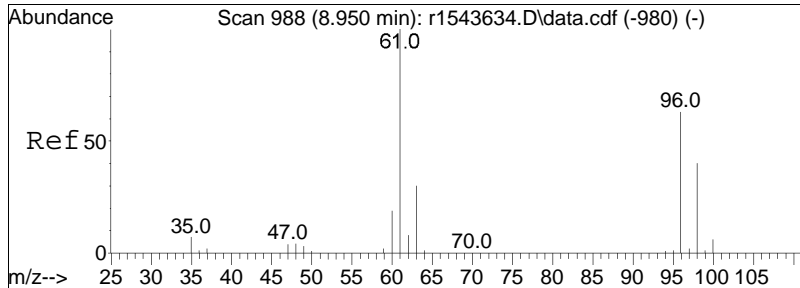




#36
 2-butanone
 Concen: 6.59 ppbV
 RT: 8.525 min Scan# 939
 Delta R.T. 0.083 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

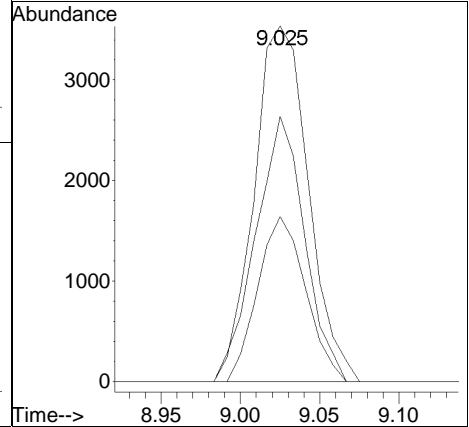
Tgt Ion	Resp	Lower	Upper
43	332951		
72	21.0	16.8	25.2
57	6.8	6.0	9.0

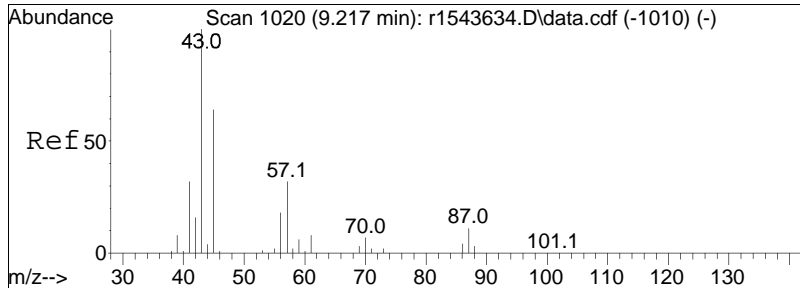




#37
 cis-1,2-dichloroethene
 Concen: 0.29 ppbV
 RT: 9.025 min Scan# 997
 Delta R.T. 0.075 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

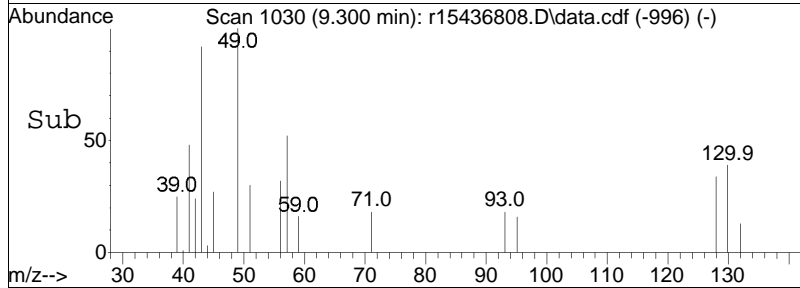
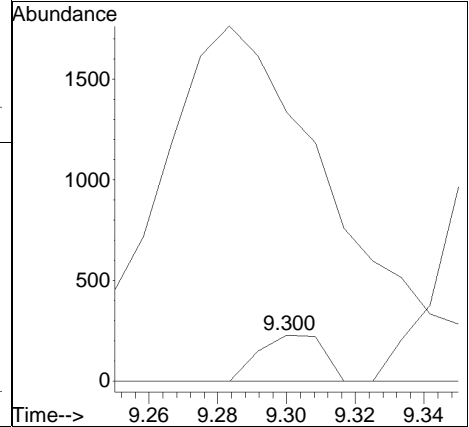
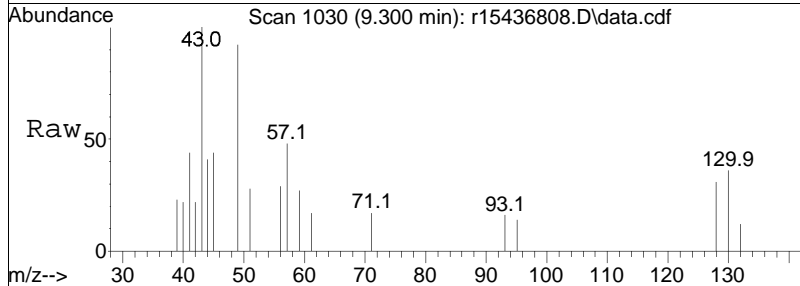
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
96	74.5	50.7	76.1
98	46.4	31.9	47.9

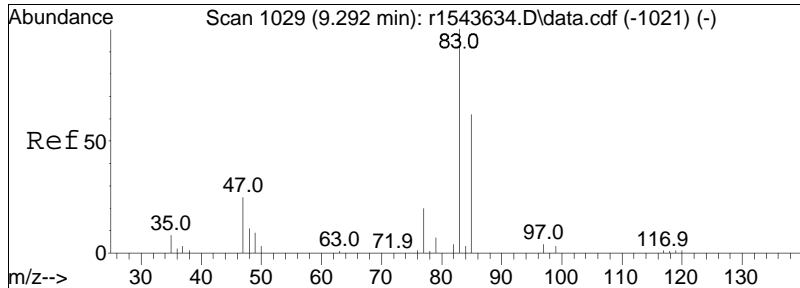




#38
 Ethyl Acetate
 Concen: 0.04 ppbV
 RT: 9.300 min Scan# 1030
 Delta R.T. 0.083 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

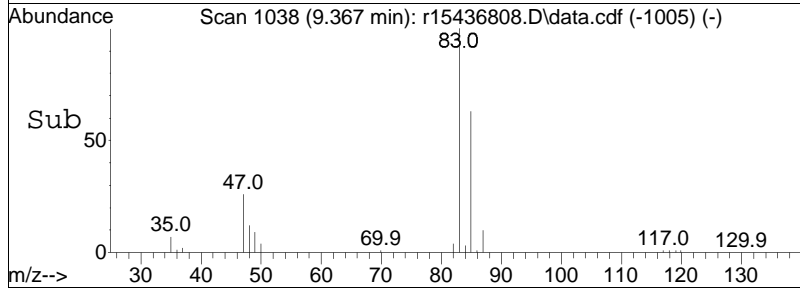
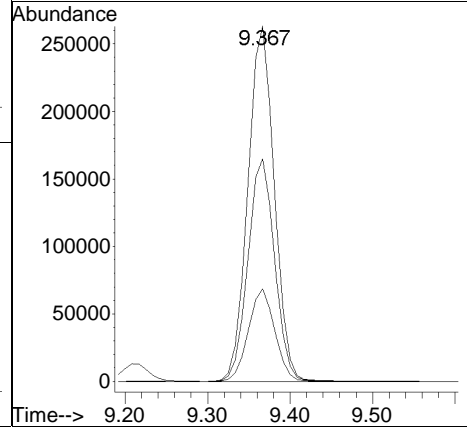
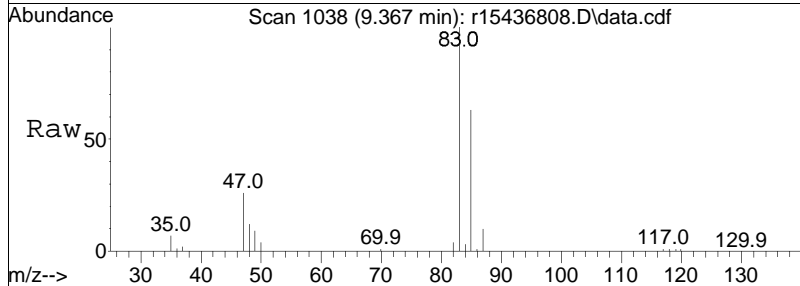
Tgt Ion	Resp	Lower	Upper
61	100		
70	0.0	71.4	107.2#
43	580.4	1000.1	1500.1#

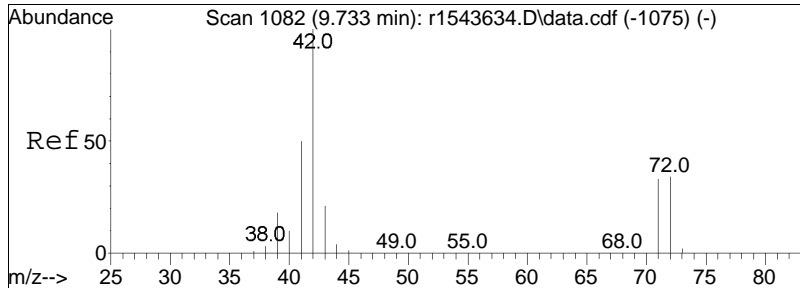




#39
 chloroform
 Concen: 14.98 ppbV
 RT: 9.367 min Scan# 1038
 Delta R.T. 0.075 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

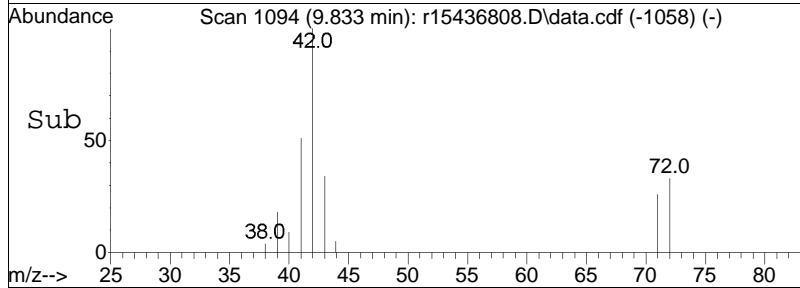
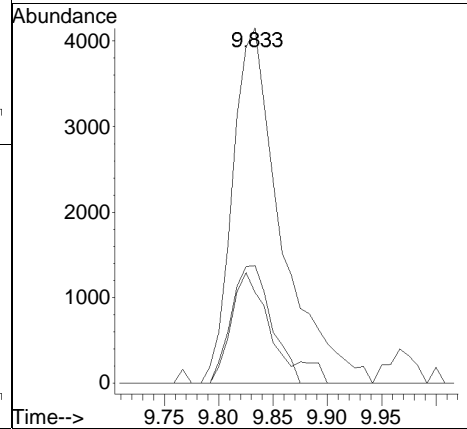
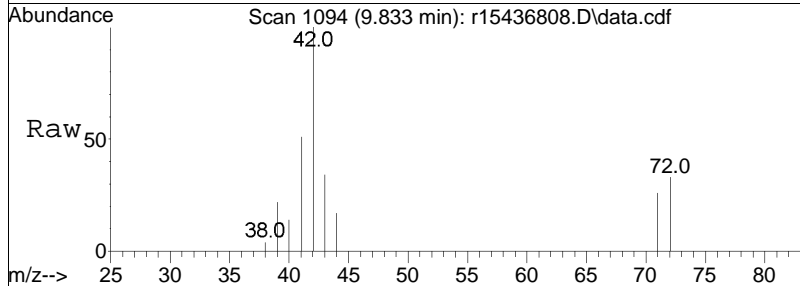
Tgt Ion:	83	Resp:	586437
Ion Ratio	Lower	Upper	
83	100		
85	62.7	50.0	75.0
47	26.1	20.0	30.0

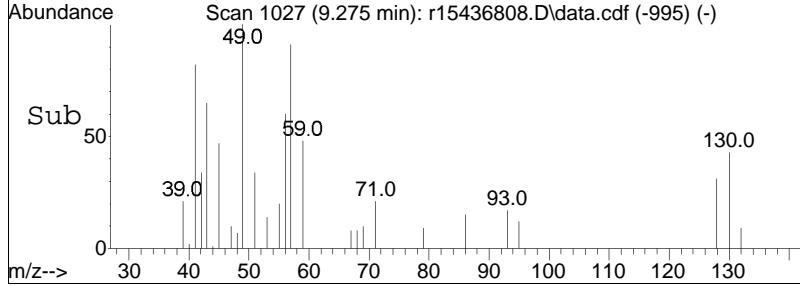
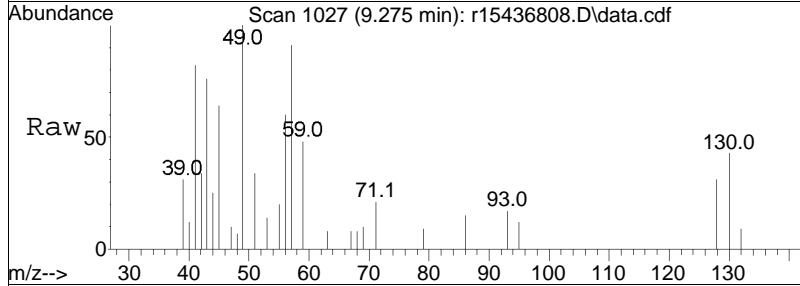
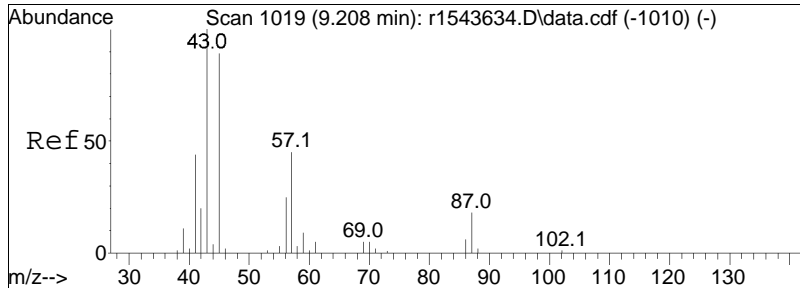




#40
 Tetrahydrofuran
 Concen: 0.43 ppbV
 RT: 9.833 min Scan# 1094
 Delta R.T. 0.100 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

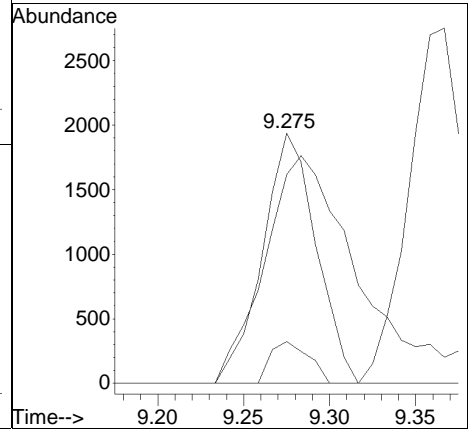
Tgt Ion:	42	Resp:	12907
Ion Ratio	Lower	Upper	
42	100		
71	25.6	26.1	39.1#
72	33.1	27.1	40.7

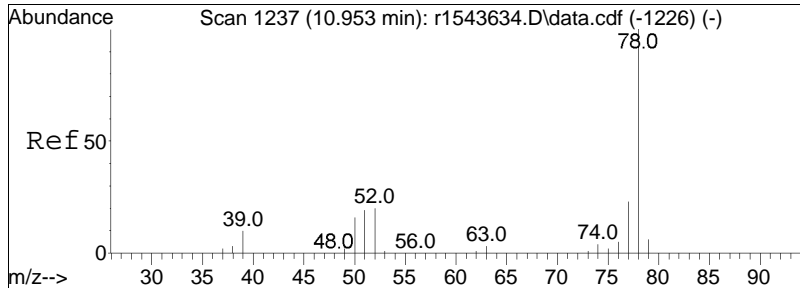




#44
 hexane
 Concen: 0.10 ppbV
 RT: 9.275 min Scan# 1027
 Delta R.T. 0.067 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

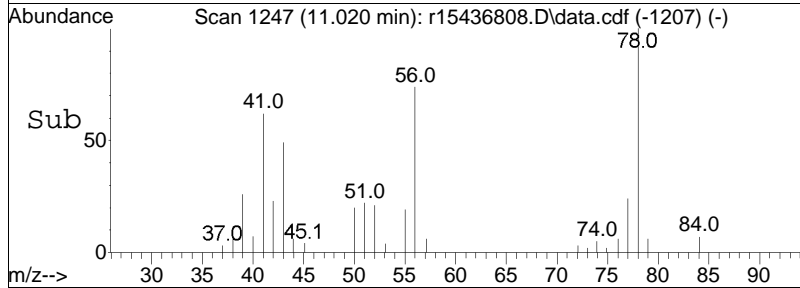
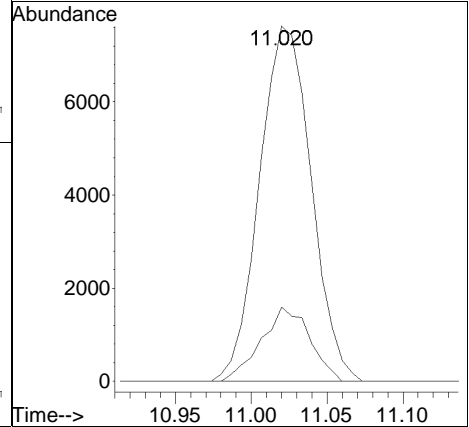
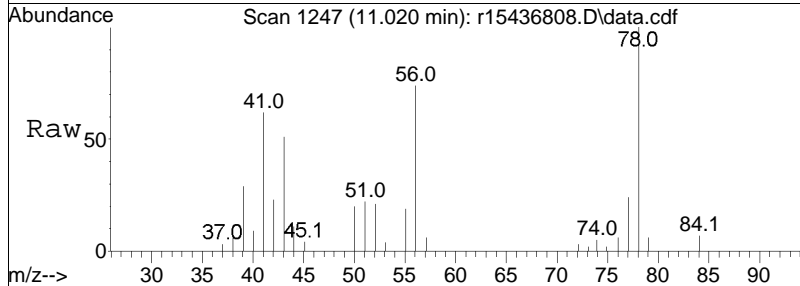
Tgt Ion:	Resp:	Lower	Upper
57	4214		
57	100		
43	83.4	179.7	269.5#
86	16.7	11.3	16.9

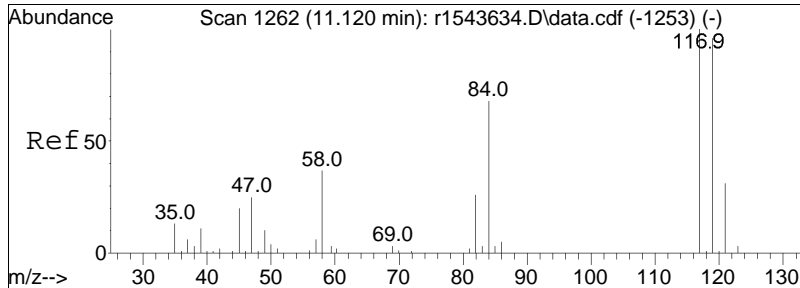




#50
benzene
Concen: 0.25 ppbV
RT: 11.020 min Scan# 1247
Delta R.T. 0.067 min
Lab File: r15436808.D
Acq: 30 Mar 2024 4:27 AM

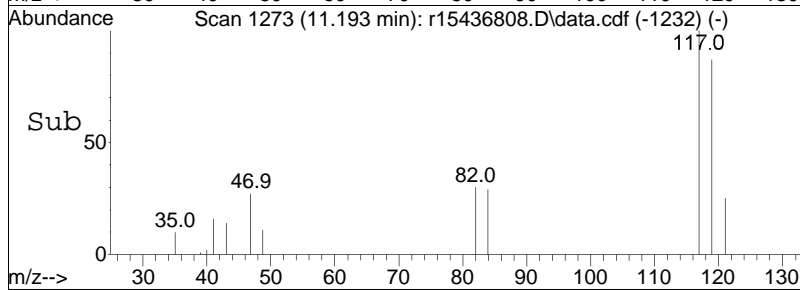
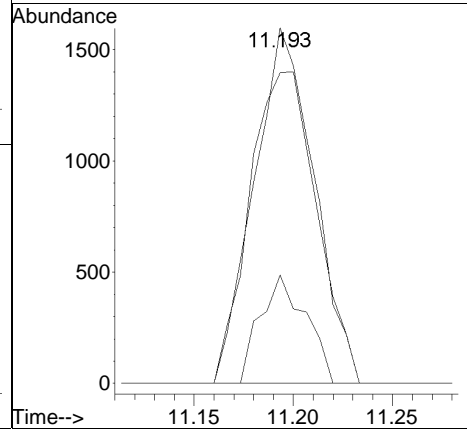
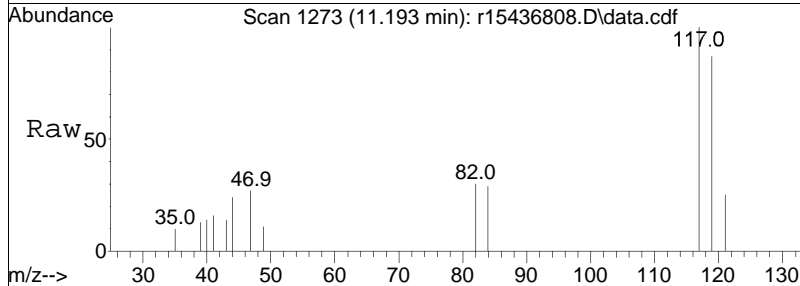
Tgt Ion:	Resp:	Lower	Upper
78	18112		
52	20.9	16.0	24.0

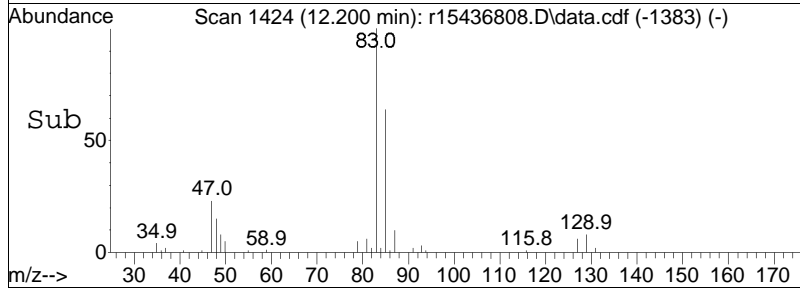
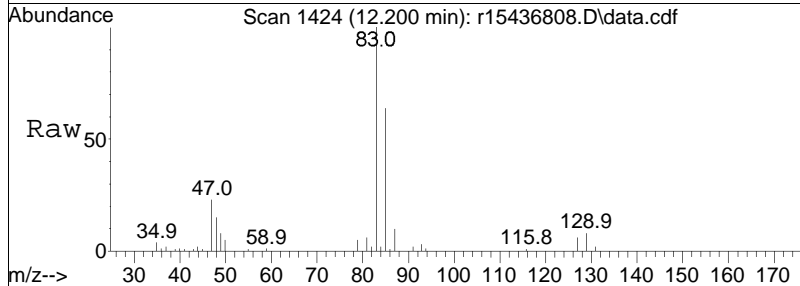
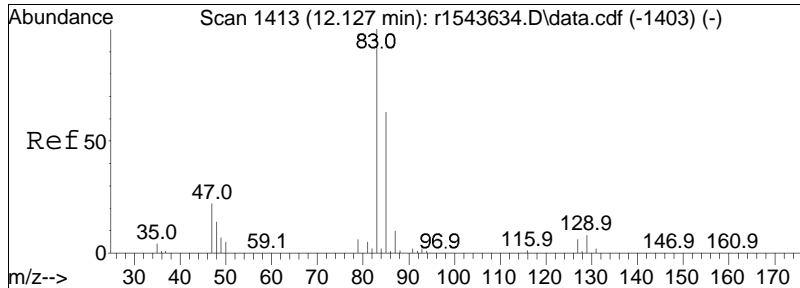




#52
 carbon tetrachloride
 Concen: 0.12 ppbV
 RT: 11.193 min Scan# 1273
 Delta R.T. 0.073 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

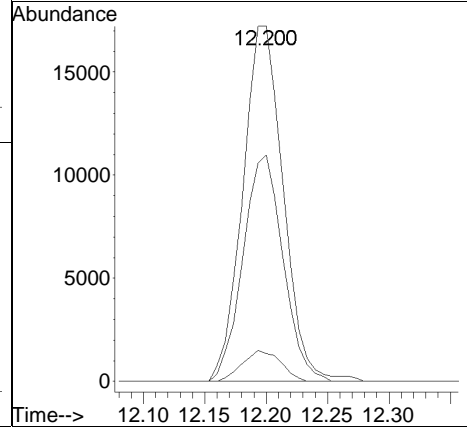
Tgt Ion	Resp	Lower	Upper
117	100		
119	87.4	76.7	115.1
82	30.5	20.9	31.3

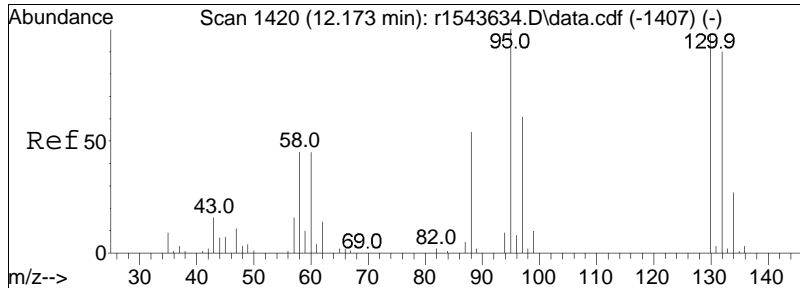




#57
 bromodichloromethane
 Concen: 1.01 ppbV
 RT: 12.200 min Scan# 1424
 Delta R.T. 0.073 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

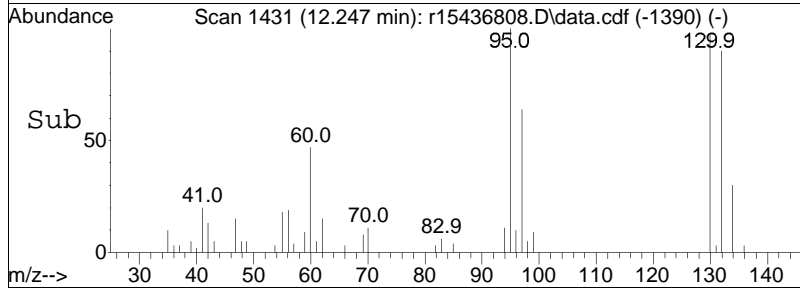
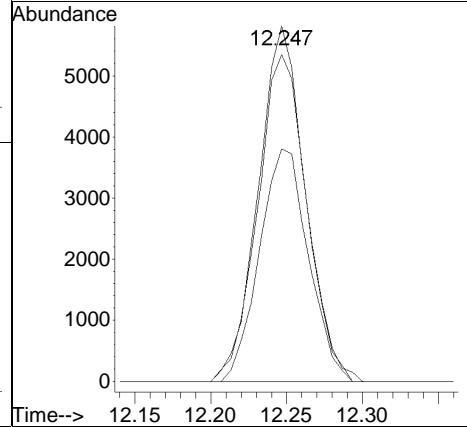
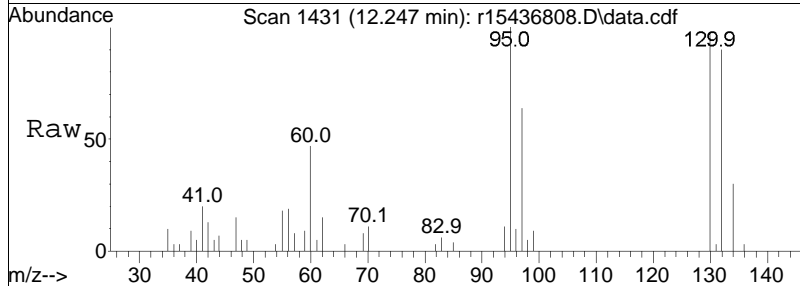
Tgt Ion:	83	Resp:	39547
Ion Ratio	100	Lower	Upper
83	100		
85	63.7	50.3	75.5
129	7.8	6.6	10.0

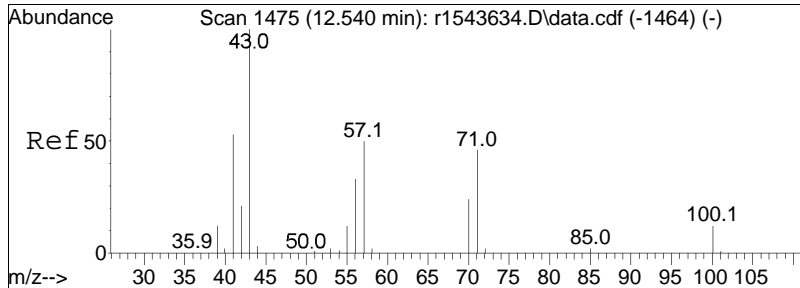




#59
 trichloroethene
 Concen: 0.54 ppbV
 RT: 12.247 min Scan# 1431
 Delta R.T. 0.073 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

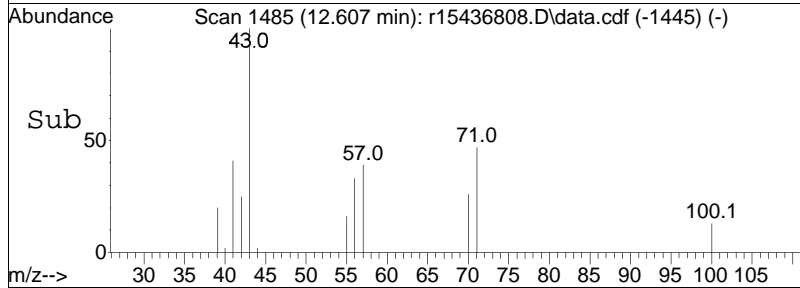
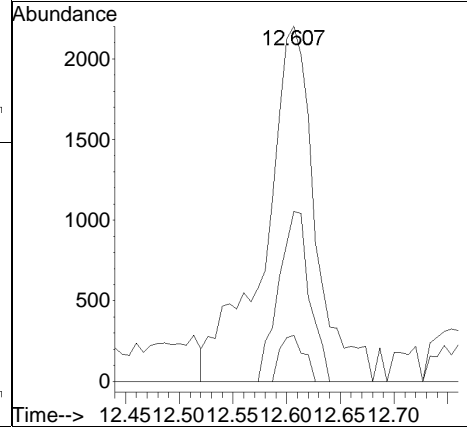
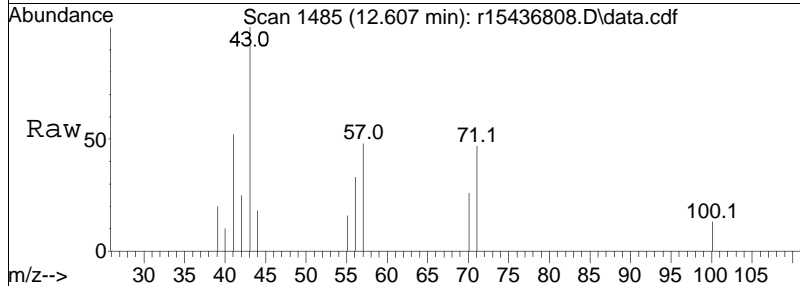
Tgt Ion	Resp	Lower	Upper
130	12593		
130	100		
132	92.0	74.4	111.6
97	65.4	50.4	75.6

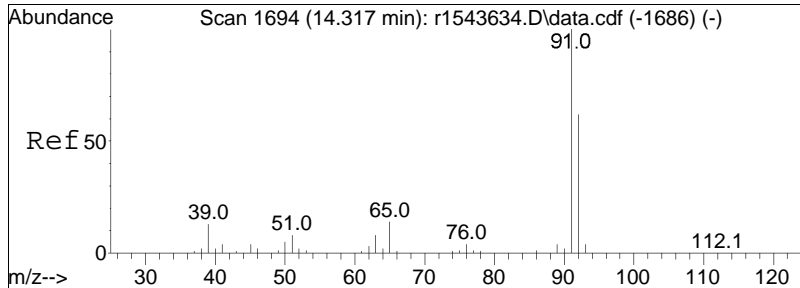




#62
 heptane
 Concen: 0.14 ppbV
 RT: 12.607 min Scan# 1485
 Delta R.T. 0.067 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

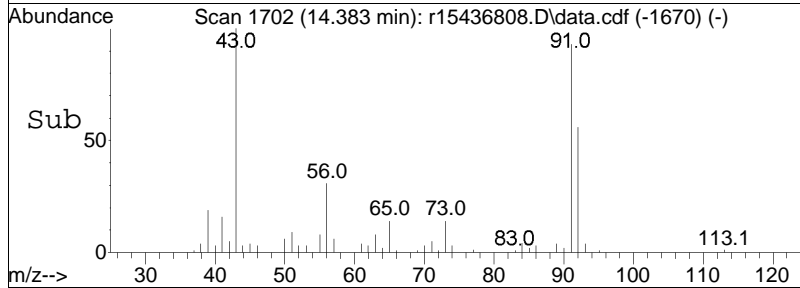
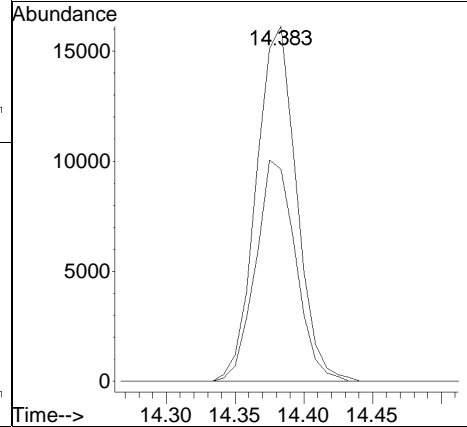
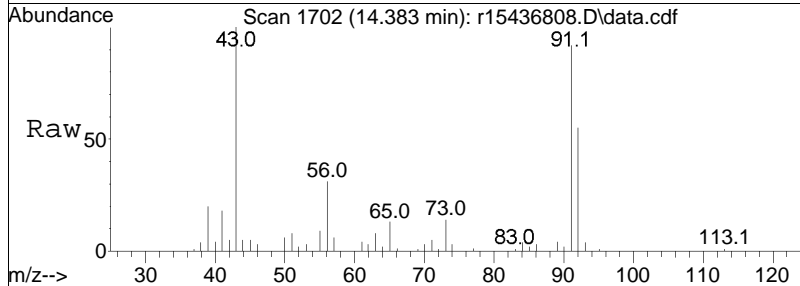
Tgt Ion:	43	Resp:	7206
Ion Ratio	Lower	Upper	
43	100		
57	47.8	39.8	59.6
100	13.0	9.8	14.8

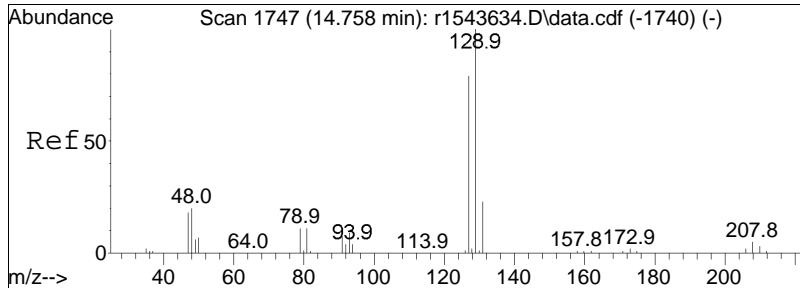




#68
 toluene
 Concen: 0.39 ppbV
 RT: 14.383 min Scan# 1702
 Delta R.T. 0.067 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

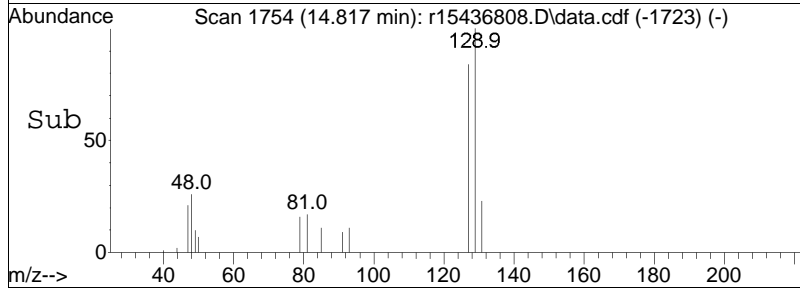
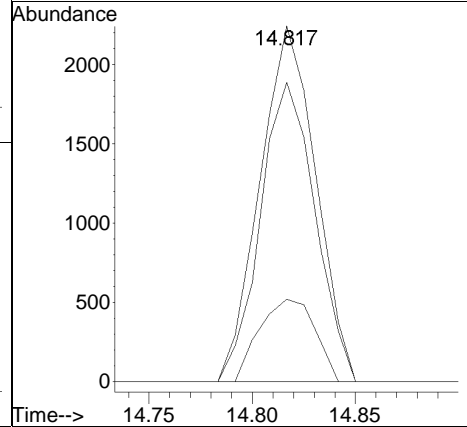
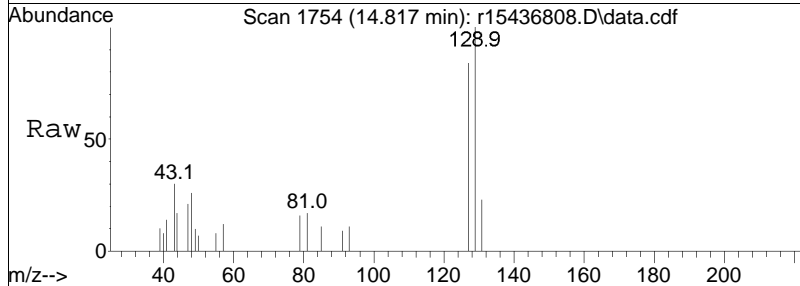
Tgt Ion: 91 Resp: 32846
 Ion Ratio Lower Upper
 91 100
 92 59.7 49.3 73.9

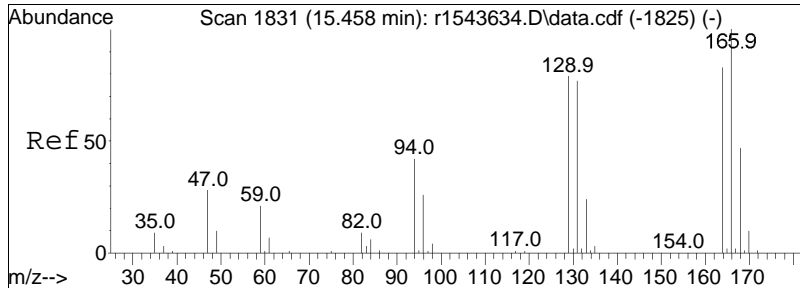




#74
 dibromochloromethane
 Concen: 0.12 ppbV
 RT: 14.817 min Scan# 1754
 Delta R.T. 0.058 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

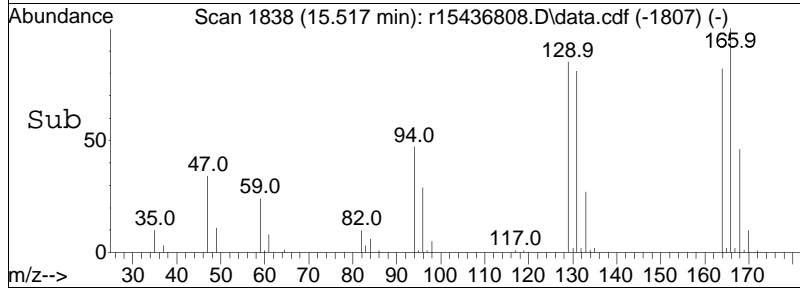
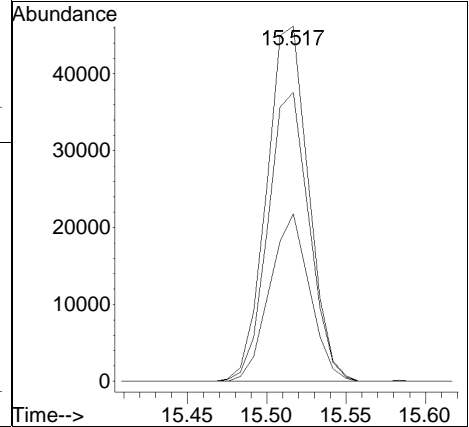
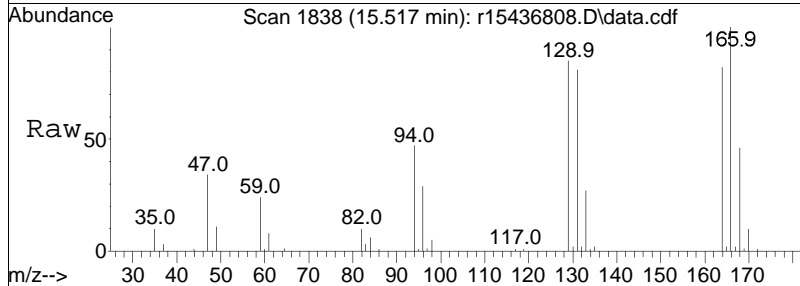
Tgt Ion	Ratio	Lower	Upper
129	100		
127	84.2	62.9	94.3
131	23.1	18.2	27.2

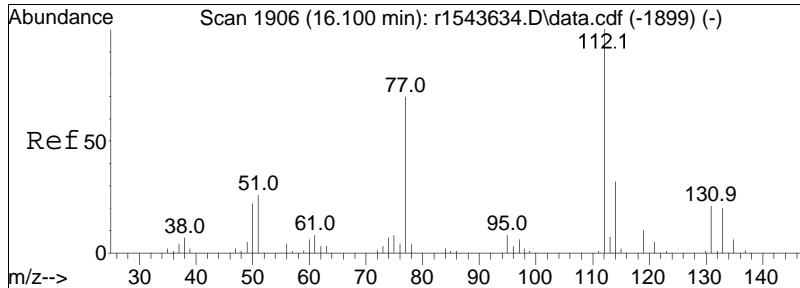




#78
 tetrachloroethene
 Concen: 2.88 ppbV
 RT: 15.517 min Scan# 1838
 Delta R.T. 0.058 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

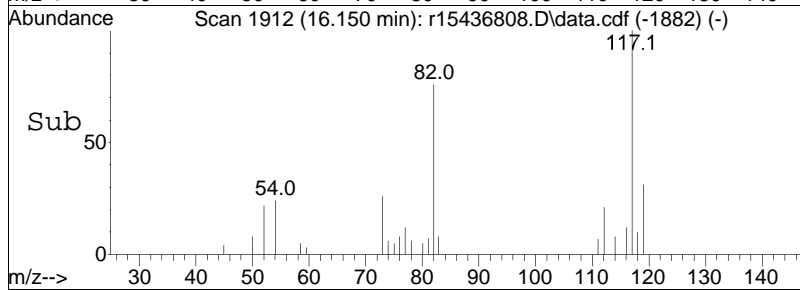
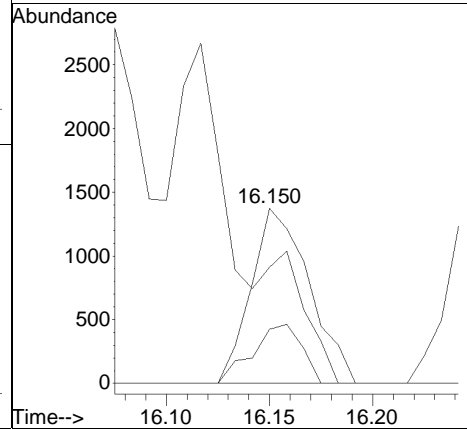
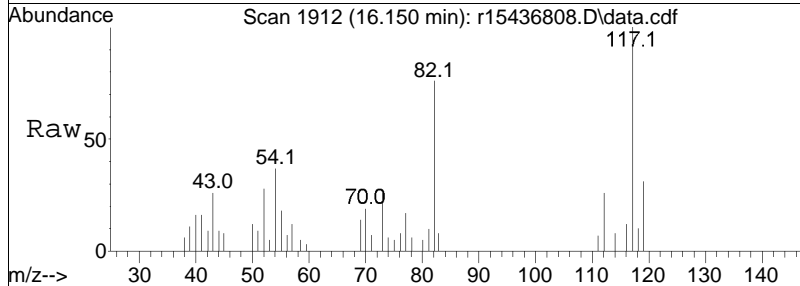
Tgt Ion	Ratio	Lower	Upper
166	100		
131	81.3	61.6	92.4
94	47.2	34.0	51.0

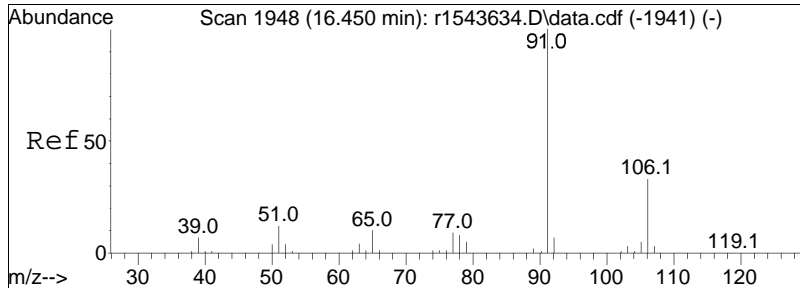




#80
 chlorobenzene
 Concen: 0.04 ppbV
 RT: 16.150 min Scan# 1912
 Delta R.T. 0.050 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

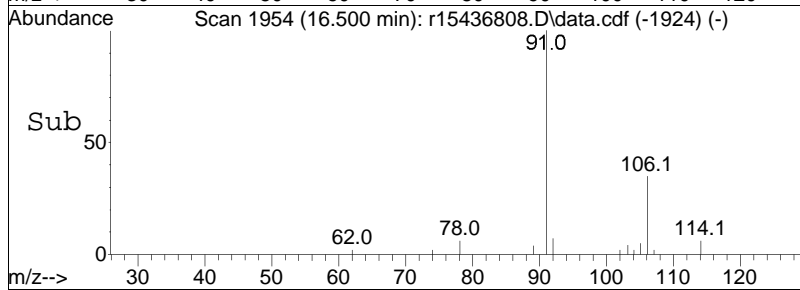
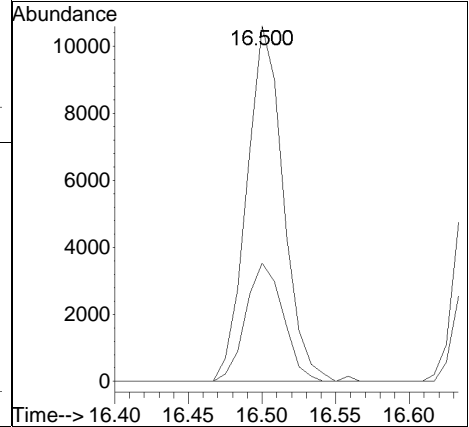
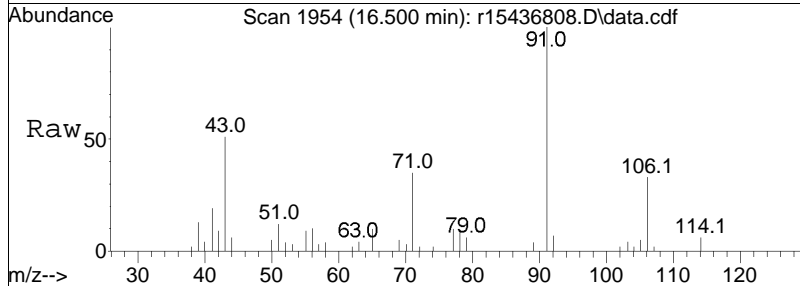
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.0	25.3	37.9
77	66.4	56.3	84.5

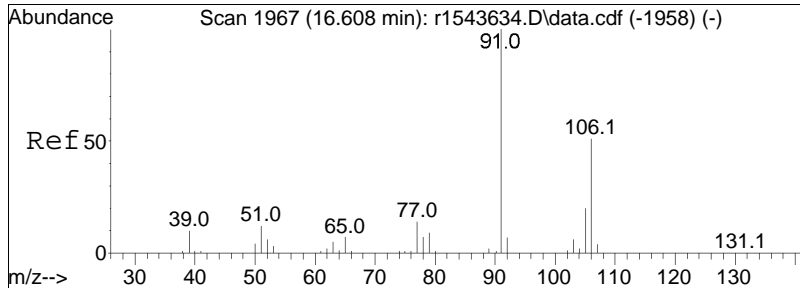




#81
 ethylbenzene
 Concen: 0.17 ppbV
 RT: 16.500 min Scan# 1954
 Delta R.T. 0.050 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

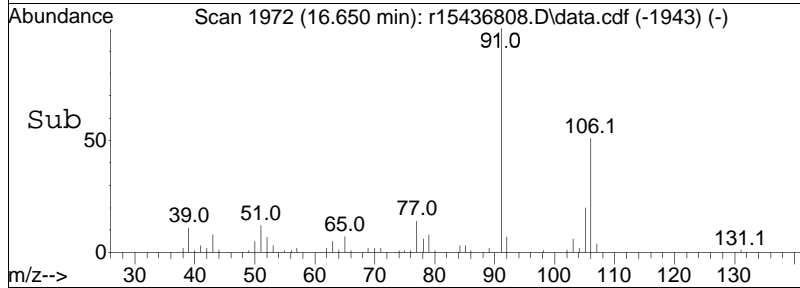
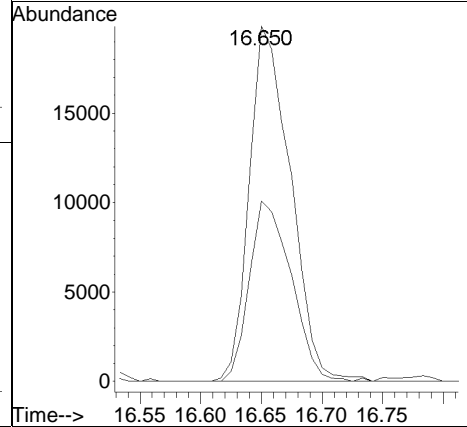
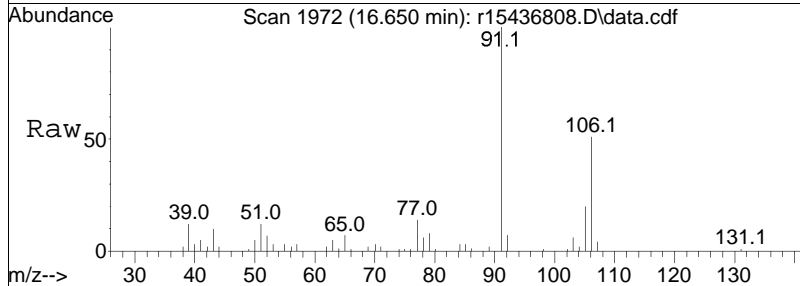
Tgt Ion: 91 Resp: 18329
 Ion Ratio Lower Upper
 91 100
 106 33.3 26.4 39.6

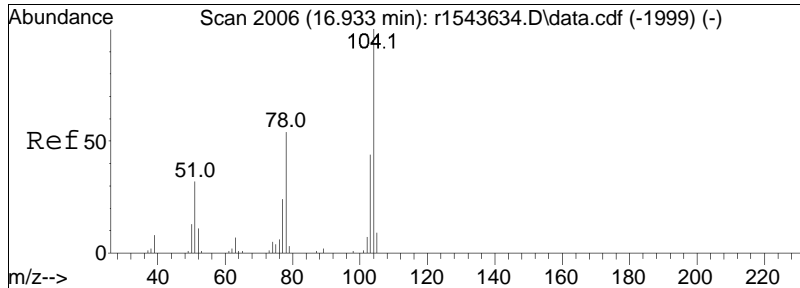




#83
 m+p-xylene
 Concen: 0.55 ppbV
 RT: 16.650 min Scan# 1972
 Delta R.T. 0.042 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

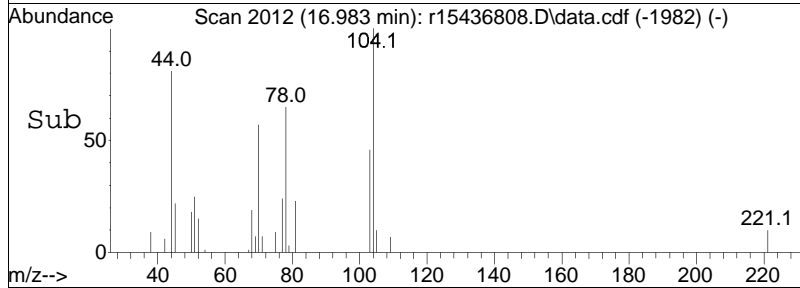
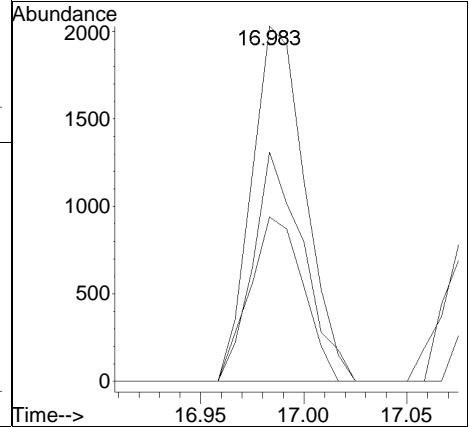
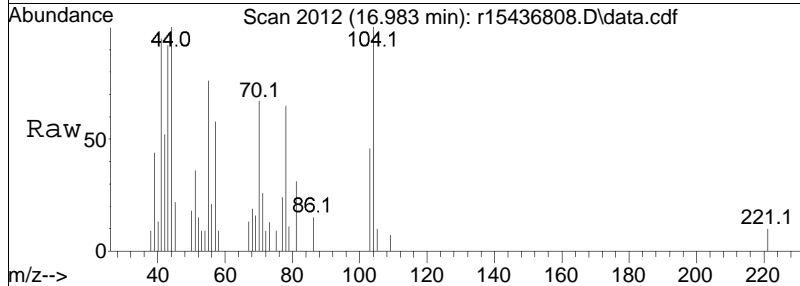
Tgt Ion: 91 Resp: 46912
 Ion Ratio Lower Upper
 91 100
 106 50.7 40.4 60.6

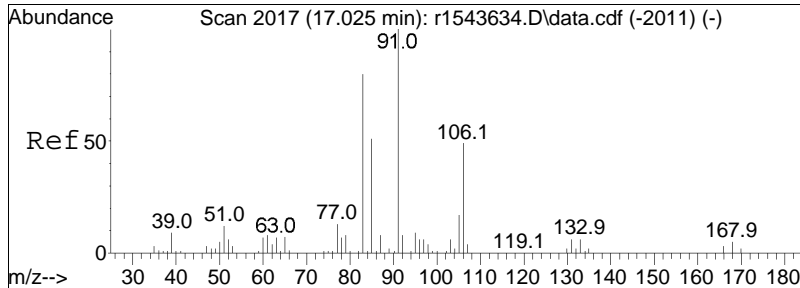




#85
 styrene
 Concen: 0.06 ppbV
 RT: 16.983 min Scan# 2012
 Delta R.T. 0.050 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

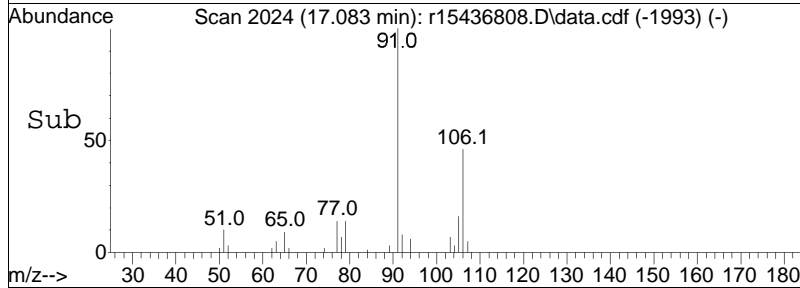
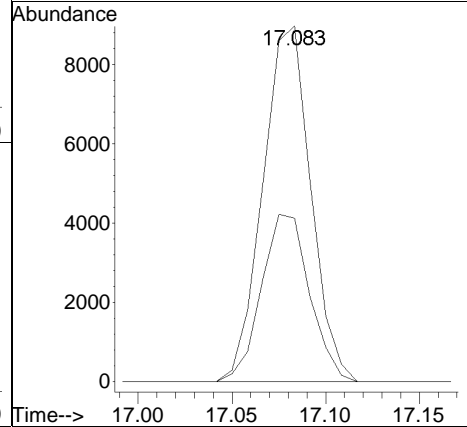
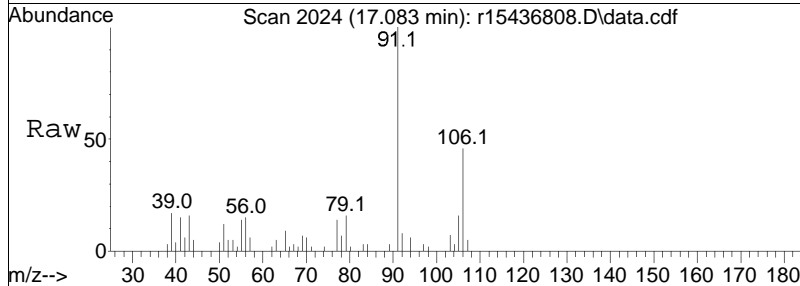
Tgt Ion	Ratio	Lower	Upper
104	100		
103	46.3	35.0	52.4
78	64.5	42.9	64.3#

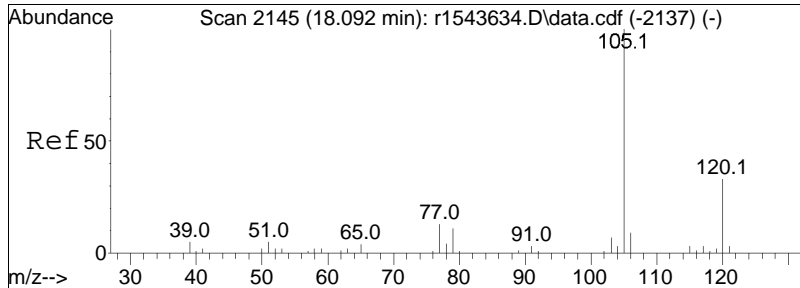




#87
 o-xylene
 Concen: 0.18 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

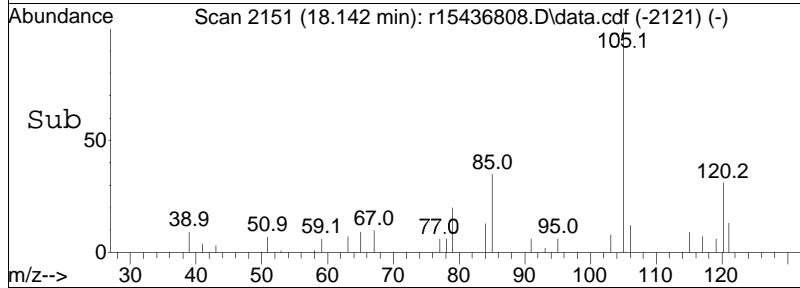
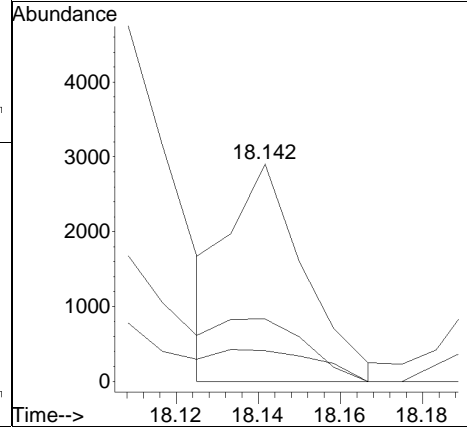
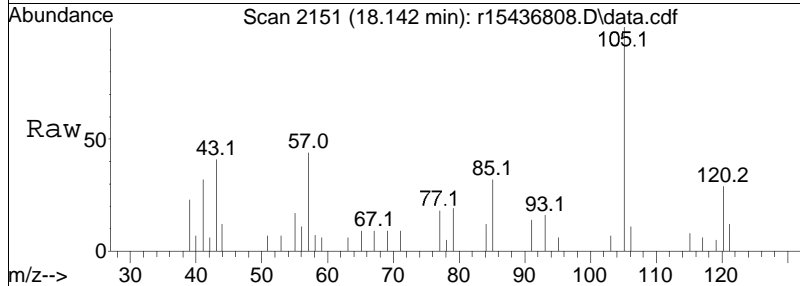
Tgt Ion:	91	Resp:	15926
Ion Ratio	Lower	Upper	
91	100		
106	45.9	39.1	58.7

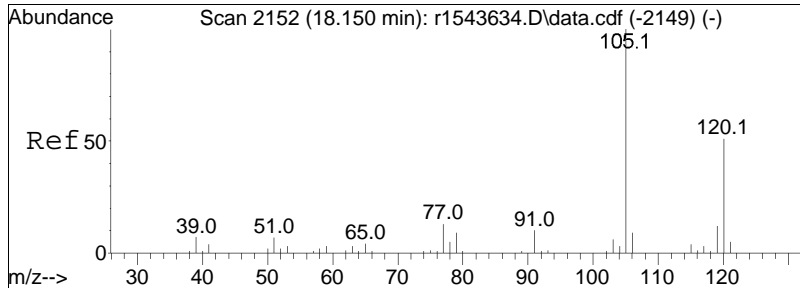




#96
 4-ethyl toluene
 Concen: 0.03 ppbV m
 RT: 18.142 min Scan# 2151
 Delta R.T. 0.050 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

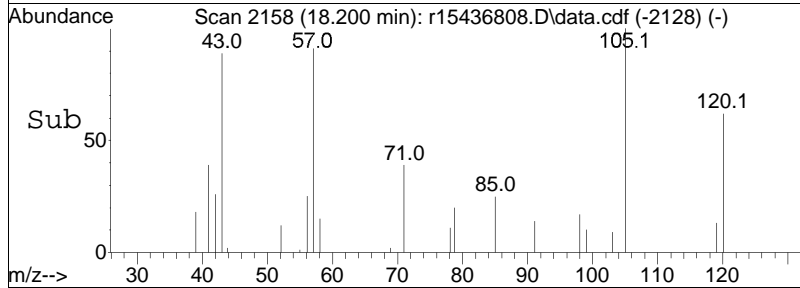
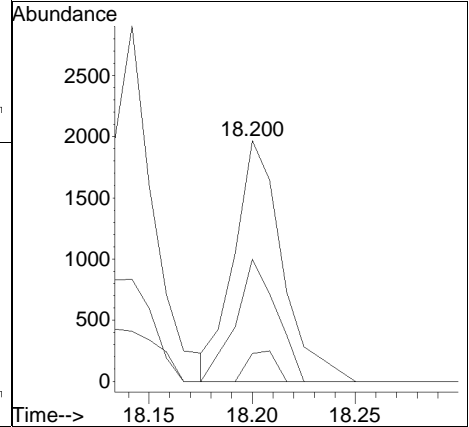
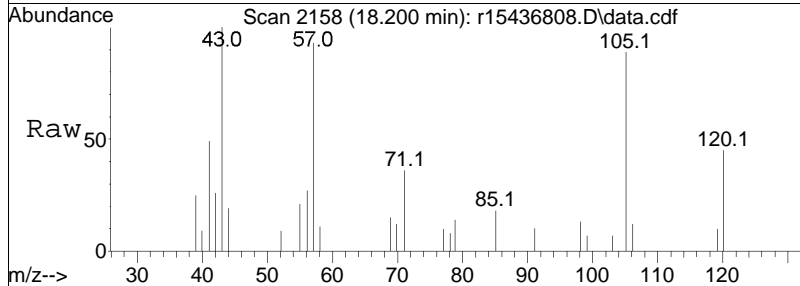
Tgt Ion	Resp	Lower	Upper
105	100		
120	28.7	26.1	39.1
91	14.1	8.2	12.4#

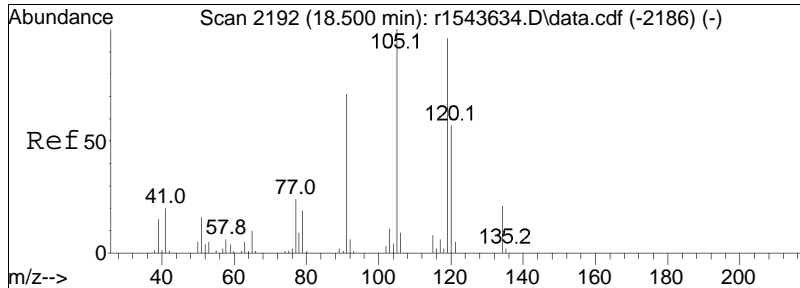




#97
 1,3,5-trimethylbenzene
 Concen: 0.04 ppbV
 RT: 18.200 min Scan# 2158
 Delta R.T. 0.050 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

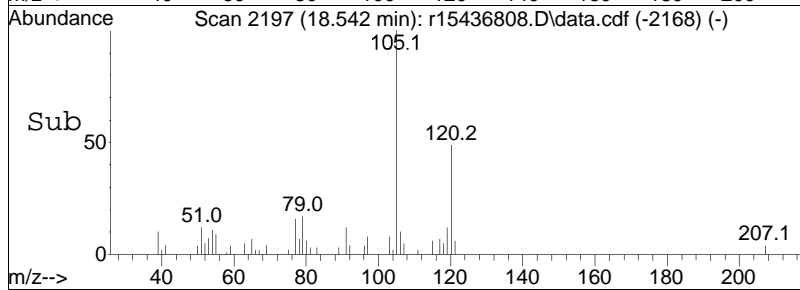
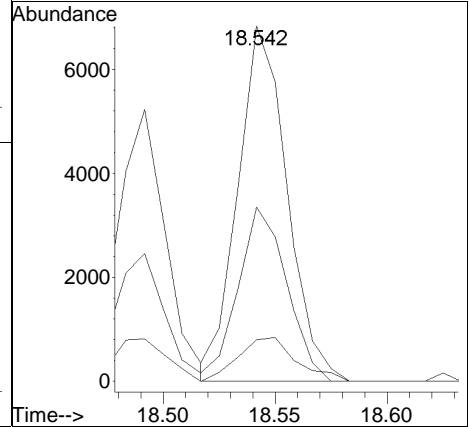
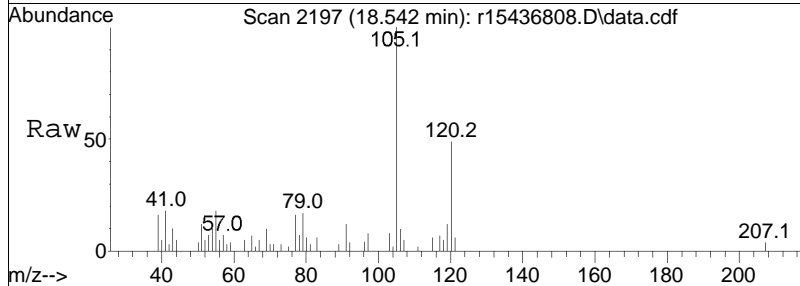
Tgt Ion	Resp	Lower	Upper
105	3808		
105	100		
120	50.8	40.9	61.3
91	11.6	7.9	11.9

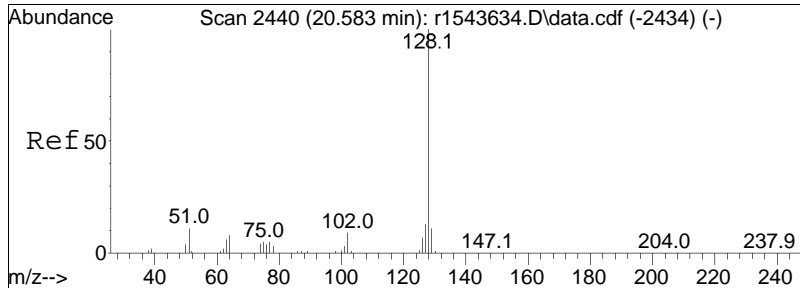




#99
 1,2,4-trimethylbenzene
 Concen: 0.11 ppbV m
 RT: 18.542 min Scan# 2197
 Delta R.T. 0.042 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

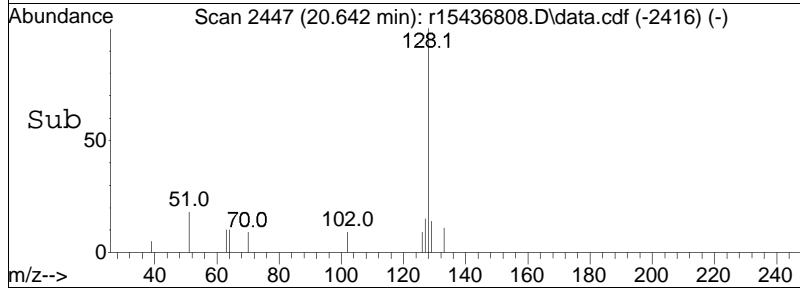
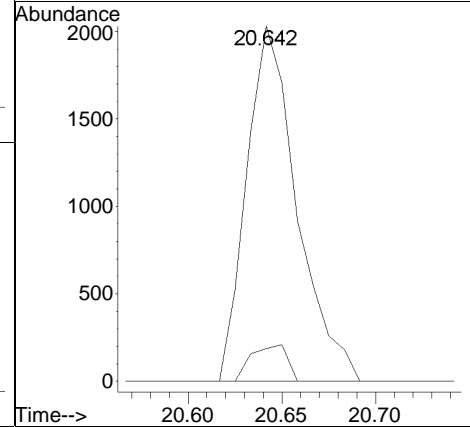
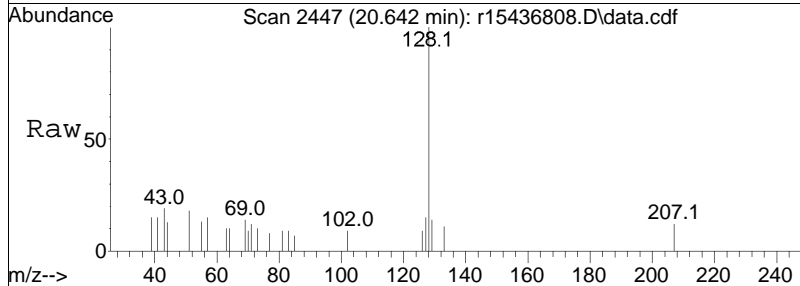
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.0	45.8	68.8
91	11.7	56.7	85.1#





#116
 naphthalene
 Concen: 0.03 ppbV
 RT: 20.642 min Scan# 2447
 Delta R.T. 0.058 min
 Lab File: r15436808.D
 Acq: 30 Mar 2024 4:27 AM

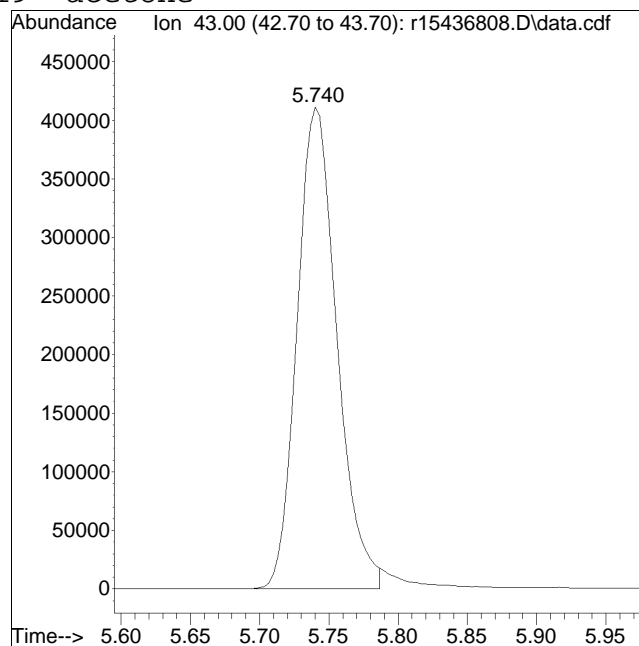
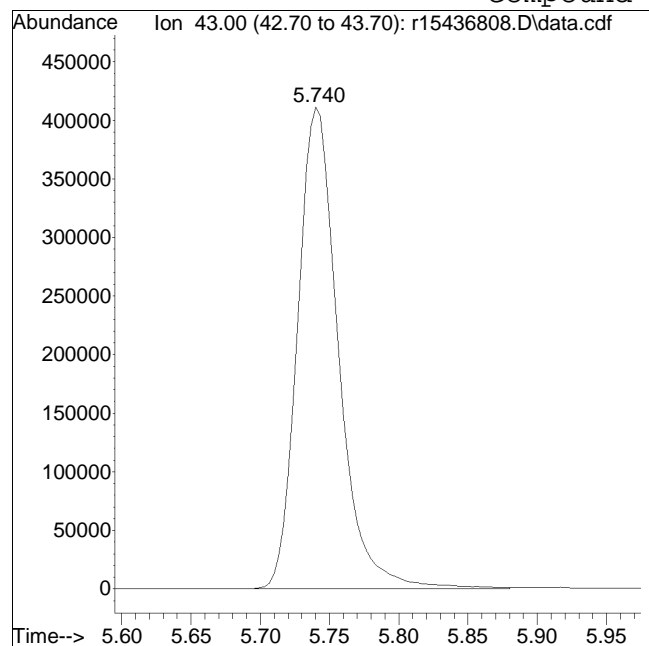
Tgt Ion: 128 Resp: 3797
 Ion Ratio Lower Upper
 128 100
 102 9.3 6.8 10.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436808.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:4: 7 Instrument :
Sample : L2414212-11,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #19: acetone



Original Peak Response = 843408

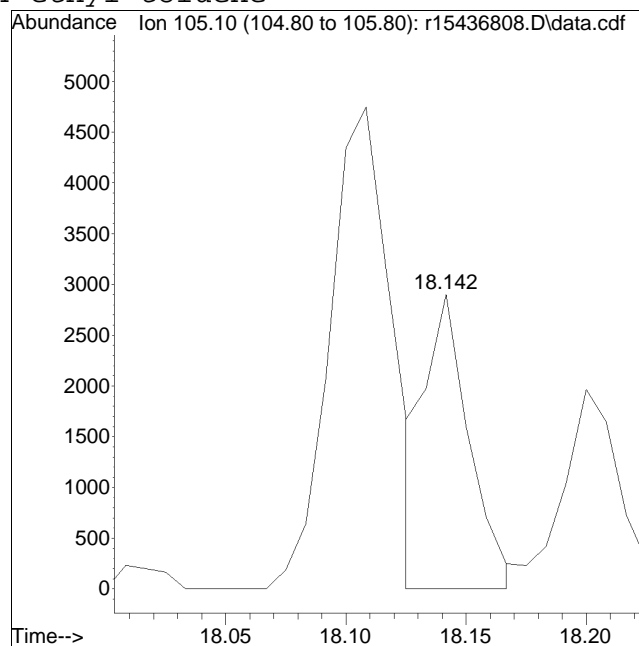
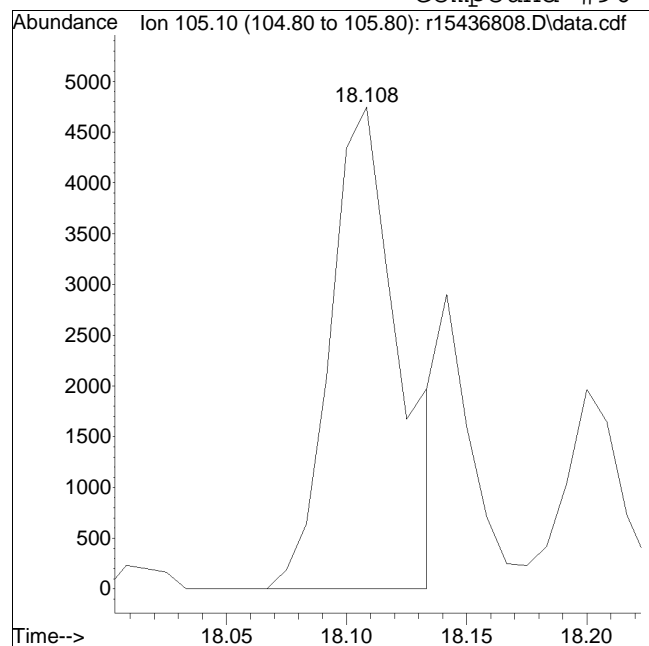
Manual Peak Response = 820519 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436808.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:4: 7 Instrument :
Sample : L2414212-11,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #96: 4-ethyl toluene



Original Peak Response = 9405

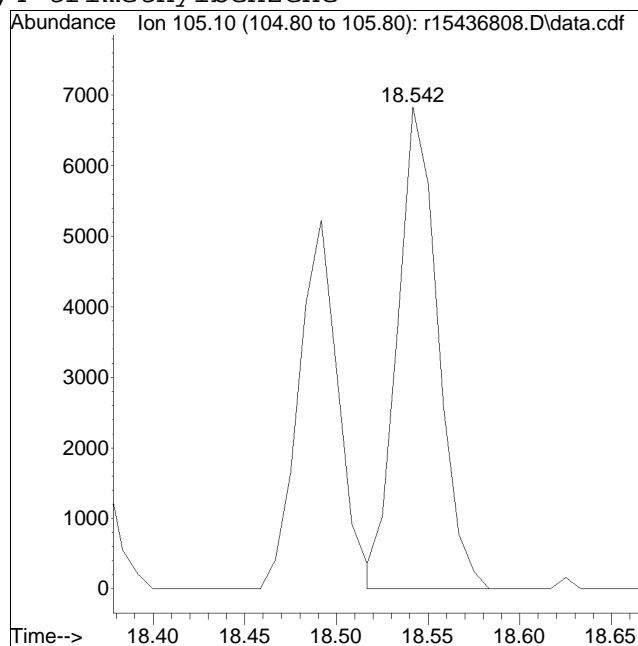
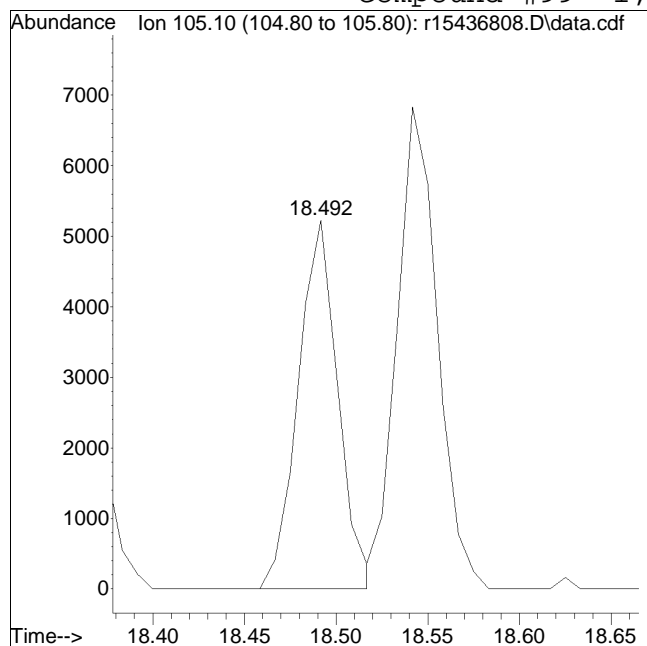
Manual Peak Response = 3718 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436808.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:4: 7 Instrument :
Sample : L2414212-11,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 7862

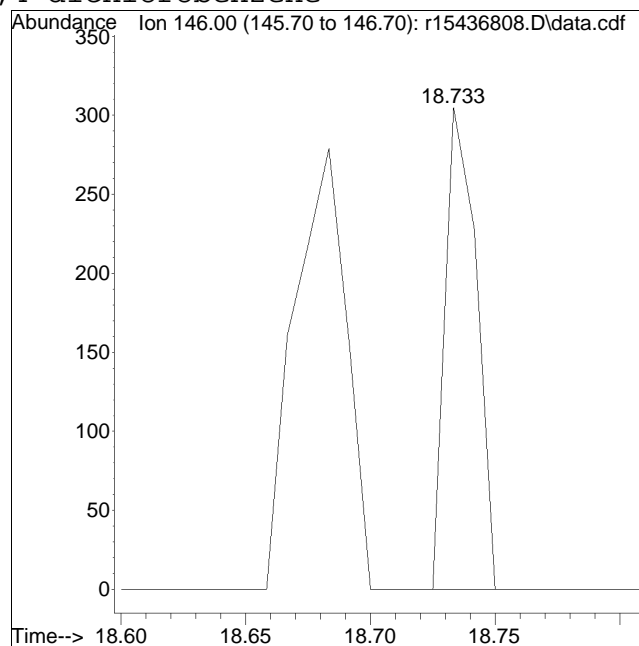
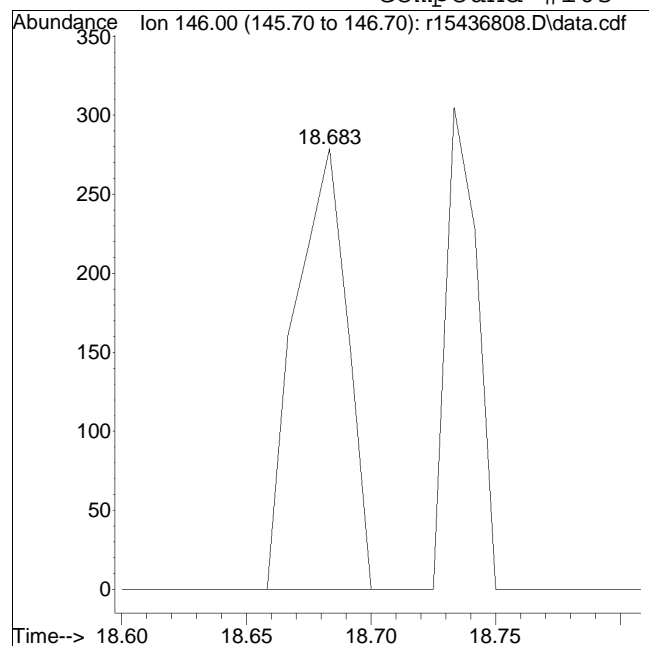
Manual Peak Response = 10467 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436808.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:4: 7 Instrument :
Sample : L2414212-11,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 406

Manual Peak Response = 267 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436809.D
 Acq On : 30 Mar 2024 5:08 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-12,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:38 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.208	49	364024	10.000	ppbV	0.07
Standard Area =	358796		Recovery =	101.46%		
43) 1,4-difluorobenzene	11.440	114	771650	10.000	ppbV	0.07
Standard Area =	735074		Recovery =	104.98%		
67) chlorobenzene-D5	16.117	54	160364	10.000	ppbV	0.05
Standard Area =	162298		Recovery =	98.81%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.054	85	20791	0.515	ppbV	99
6) chloromethane	4.222	50	5103	0.224	ppbV	98
7) Freon-114	4.330		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	4.894		0	N.D.		
14) chloroethane	5.086		0	N.D.		
15) ethanol	5.230	31	67392	2.988	ppbV	99
17) vinyl bromide	5.533		0	N.D.		
19) acetone	5.740	43	753524M6	26.454	ppbV	
21) trichlorofluoromethane	5.927	101	5424	0.190	ppbV	98
22) isopropyl alcohol	6.050	45	15970	0.413	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	6.726	59	36921	0.923	ppbV #	86
28) methylene chloride	6.786	49	4599	0.163	ppbV	92
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.092	76	12263	0.215	ppbV #	43
31) Freon 113	7.092	101	2072	0.064	ppbV	96
32) trans-1,2-dichloroethene	7.842		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	8.525	43	327849	6.540	ppbV	99
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	9.300		0	N.D.		
39) chloroform	9.367	83	2591	0.067	ppbV #	83
40) Tetrahydrofuran	9.833	42	6044	0.201	ppbV	98
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.275	57	3811	0.092	ppbV #	17

Quantitation Report (QT Reviewed)

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 Sample : L2414212-12,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:38 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	11.020	78	6238	0.088	ppbV	98
52) carbon tetrachloride	11.187	117	1697	0.061	ppbV #	88
53) cyclohexane	11.347		0		N.D.	
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	12.247		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	12.247		0		N.D.	
60) 2,2,4-trimethylpentane	12.233		0		N.D.	
62) heptane	12.527		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	13.142		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.375	91	21464	0.291	ppbV	96
72) 2-hexanone	14.667	43	50534M3	0.975	ppbV	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	15.508	166	18332	0.717	ppbV	99
80) chlorobenzene	16.167		0		N.D.	
81) ethylbenzene	16.500	91	5873	0.065	ppbV	93
83) m+p-xylene	16.650	91	18988	0.256	ppbV	100
84) bromoform	0.000		0		N.D.	
85) styrene	16.992	104	1700	0.031	ppbV #	83
86) 1,1,2,2-tetrachloroethane	16.967		0		N.D.	
87) o-xylene	17.083	91	5347	0.072	ppbV	99
96) 4-ethyl toluene	18.142		0		N.D.	
97) 1,3,5-trimethylbenzene	18.200		0		N.D.	
99) 1,2,4-trimethylbenzene	18.542	105	6654M3	0.078	ppbV	
101) Benzyl Chloride	18.542		0		N.D.	
102) 1,3-dichlorobenzene	18.733		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D. d	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	20.642	128	8688	0.092	ppbV	97
119) hexachlorobutadiene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436809.D
Acq On : 30 Mar 2024 5:08 AM
Operator : AIRLAB15:BJB
Sample : L2414212-12,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

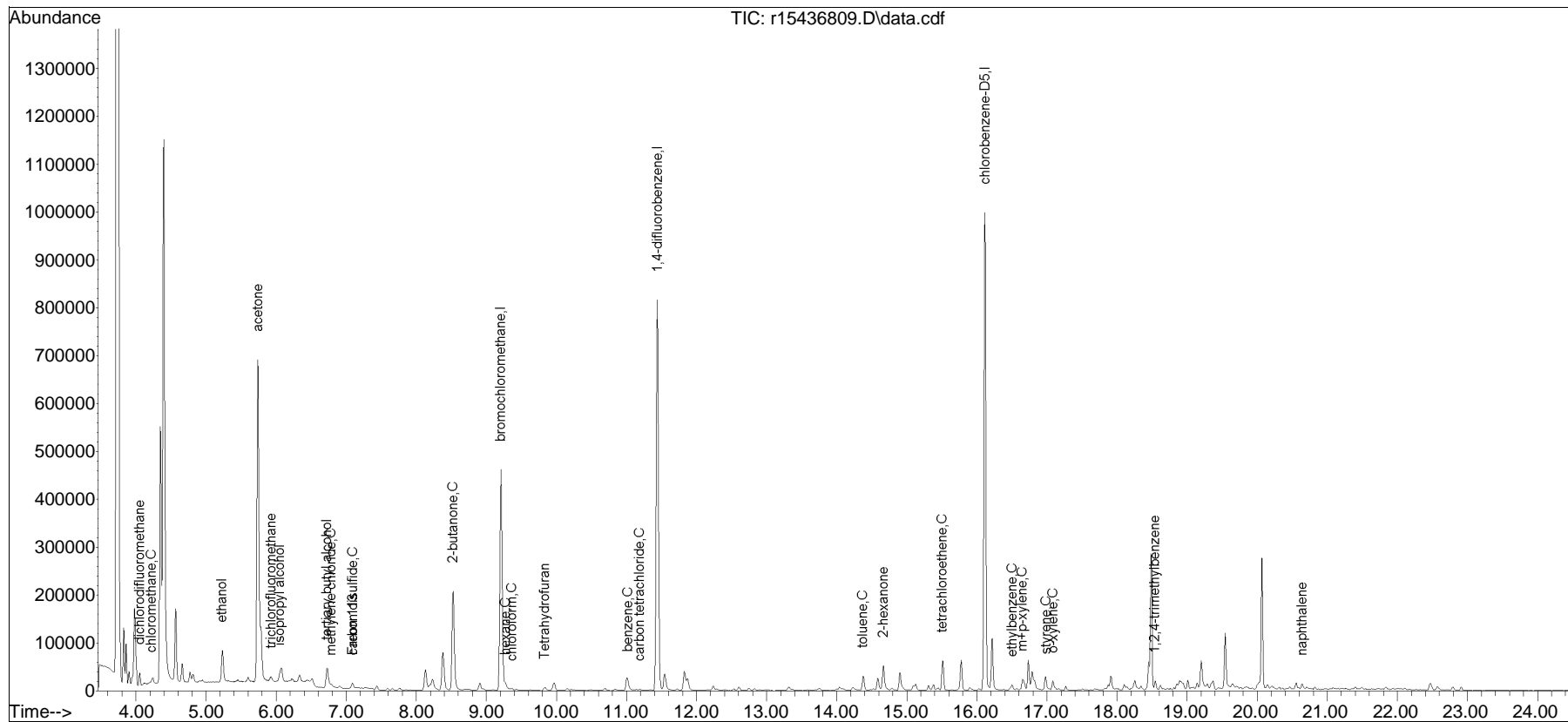
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : TO15-NY+Naphthalene - .

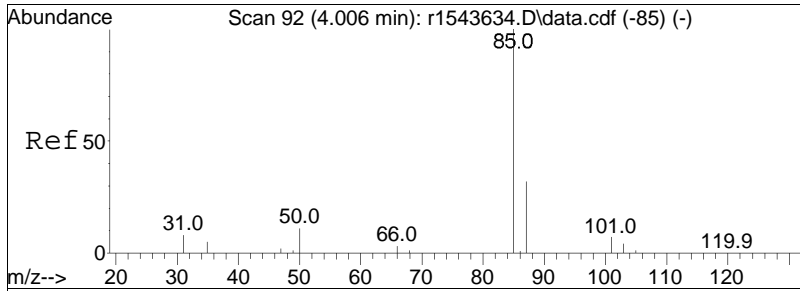
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b15\2024\03\0329T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436809.D
Acq On : 30 Mar 2024 5:08 AM
Operator : AIRLAB15:BJB
Sample : L2414212-12,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

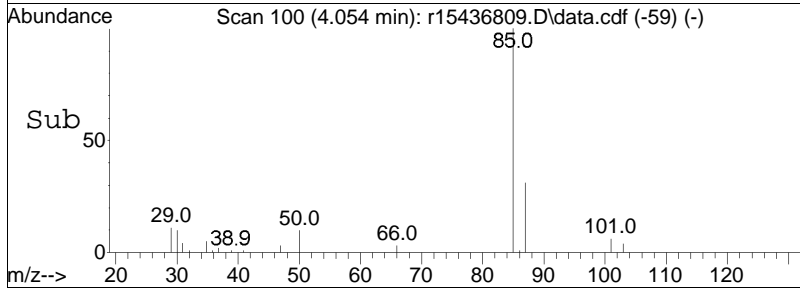
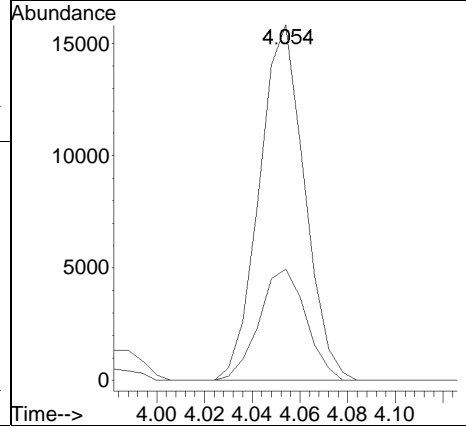
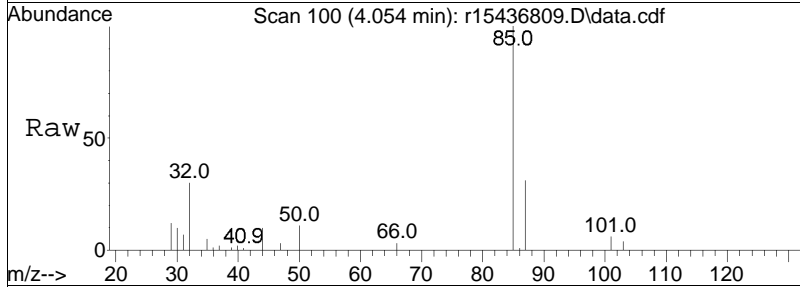
Quant Time: Mar 30 07:30:38 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

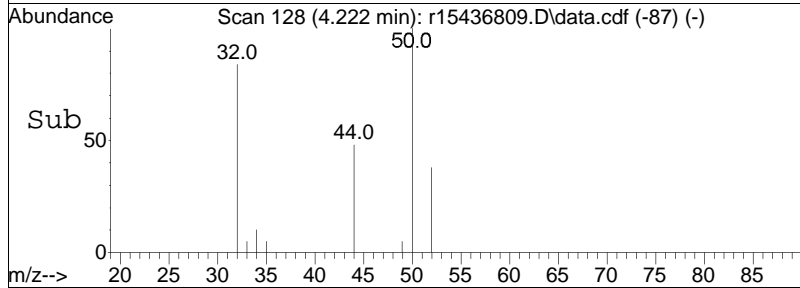
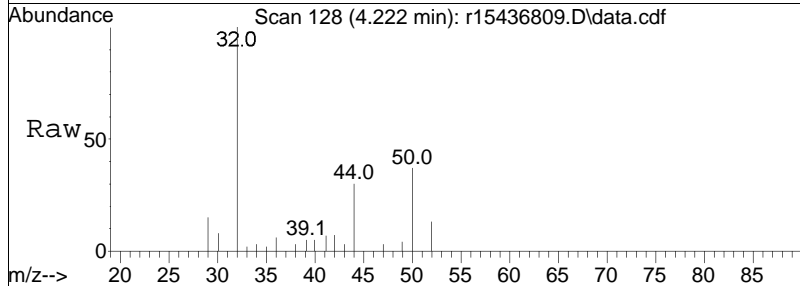
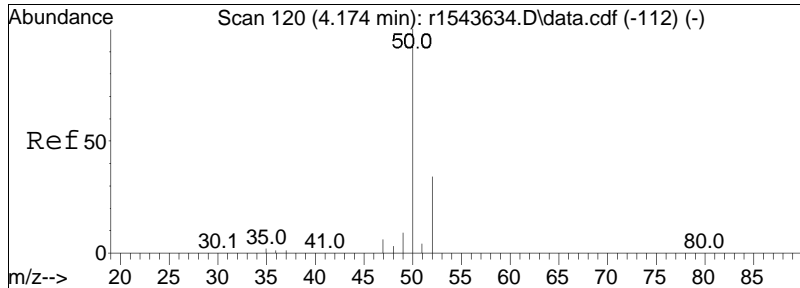




#5
 dichlorodifluoromethane
 Concen: 0.52 ppbV
 RT: 4.054 min Scan# 100
 Delta R.T. 0.048 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

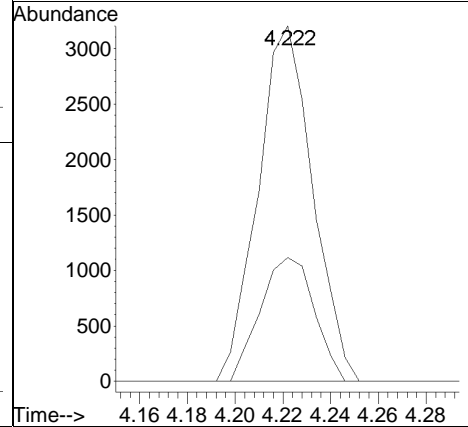
Tgt Ion: 85 Resp: 20791
 Ion Ratio Lower Upper
 85 100
 87 31.3 25.5 38.3

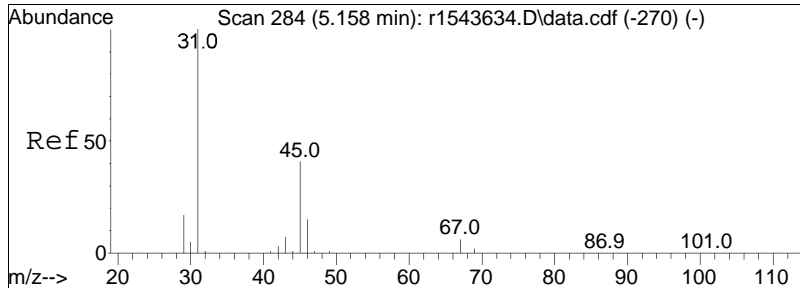




#6
 chloromethane
 Concen: 0.22 ppbV
 RT: 4.222 min Scan# 128
 Delta R.T. 0.048 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

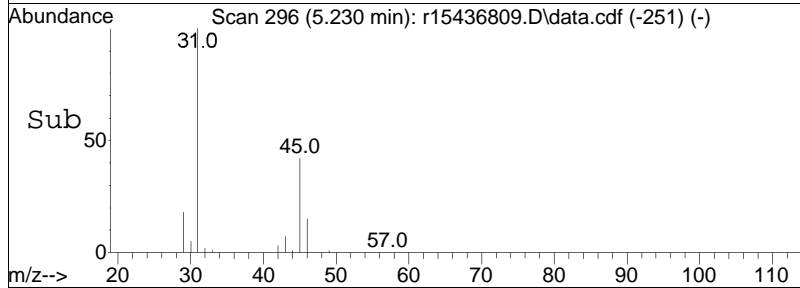
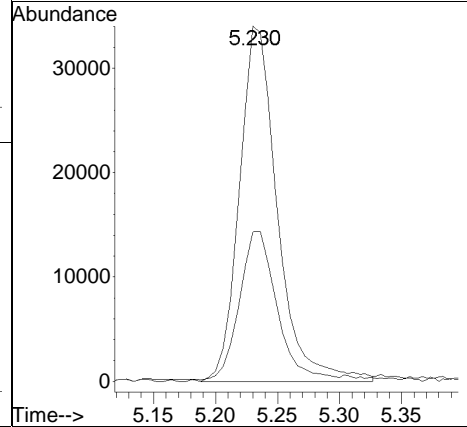
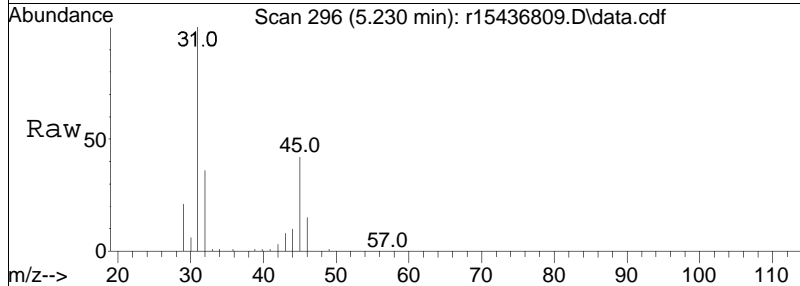
Tgt Ion:	50	Resp:	5103
Ion Ratio	100	Lower	Upper
52	34.9	27.0	40.4

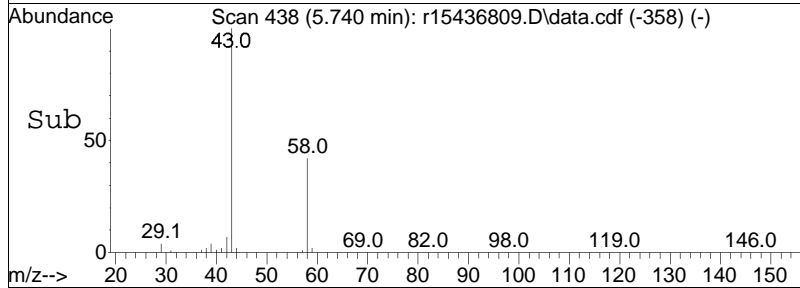
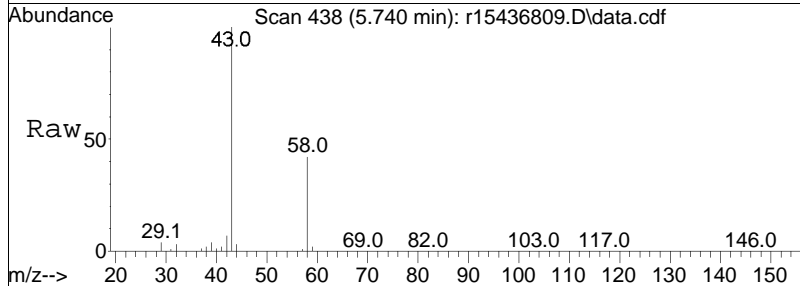
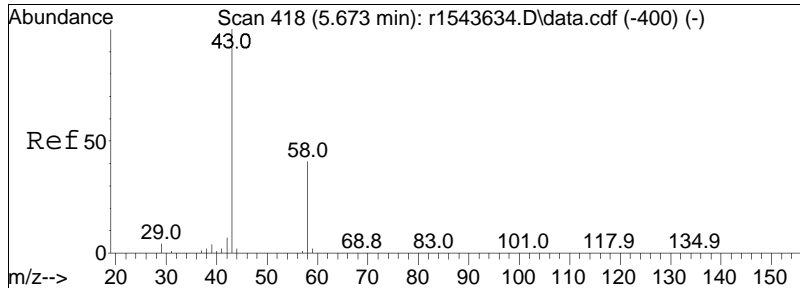




#15
 ethanol
 Concen: 2.99 ppbV
 RT: 5.230 min Scan# 296
 Delta R.T. 0.072 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

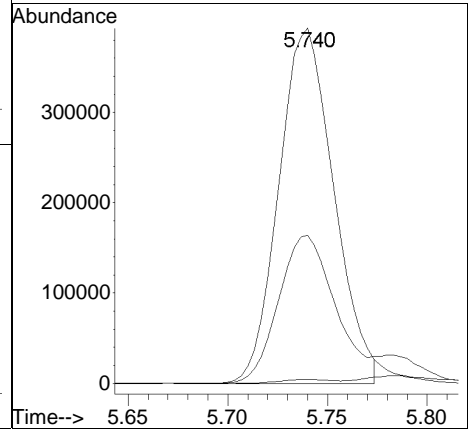
Tgt Ion: 31 Resp: 67392
 Ion Ratio Lower Upper
 31 100
 45 42.1 33.0 49.4

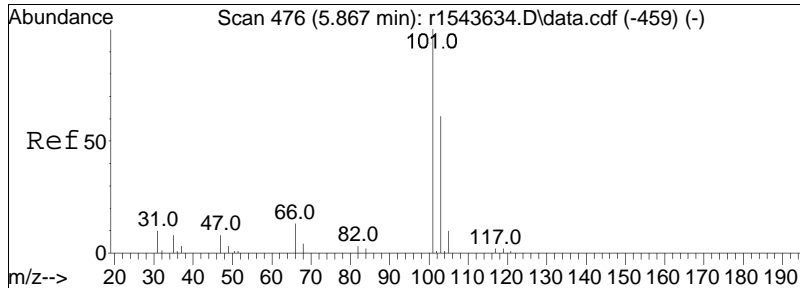




#19
 acetone
 Concen: 26.45 ppbV m
 RT: 5.740 min Scan# 438
 Delta R.T. 0.067 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

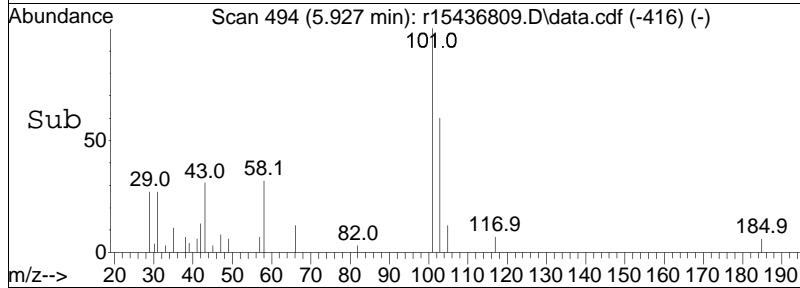
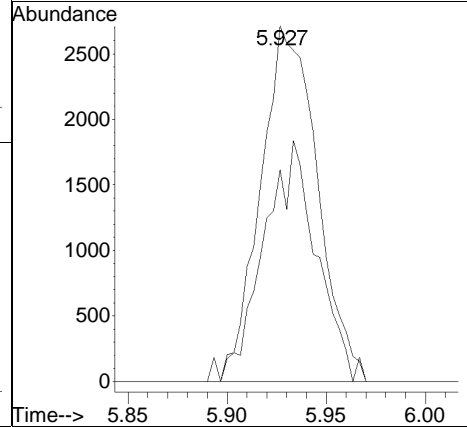
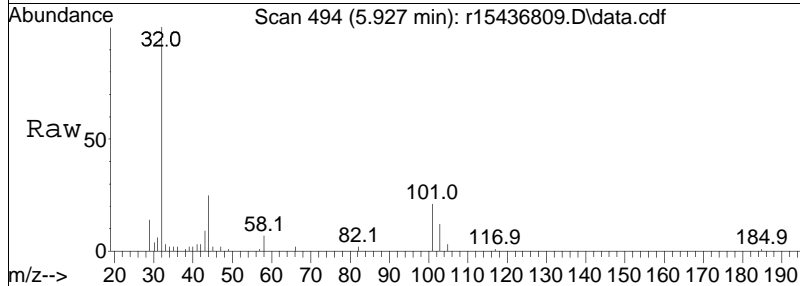
Tgt Ion:	43	58	57	Resp:	753524	Lower	Upper
Ion Ratio	100	41.7	1.2				
		33.2	0.9				
		49.8	1.3				

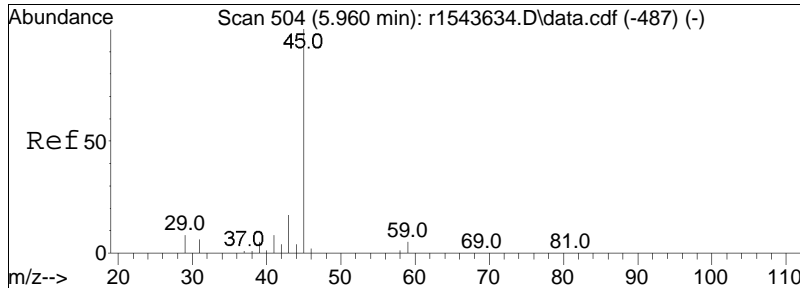




#21
 trichlorofluoromethane
 Concen: 0.19 ppbV
 RT: 5.927 min Scan# 494
 Delta R.T. 0.060 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

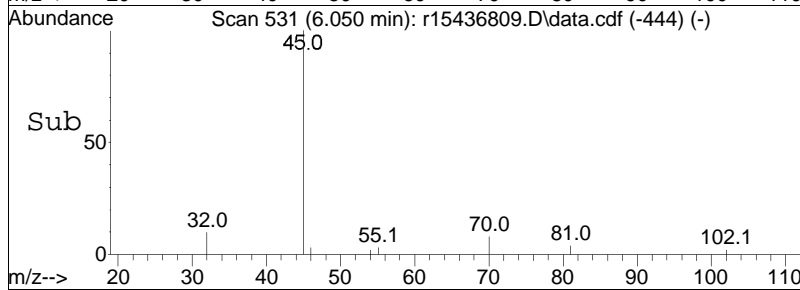
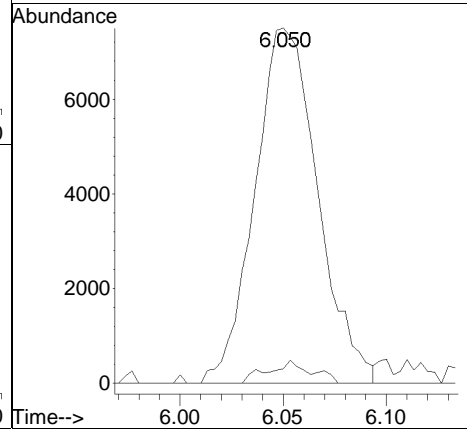
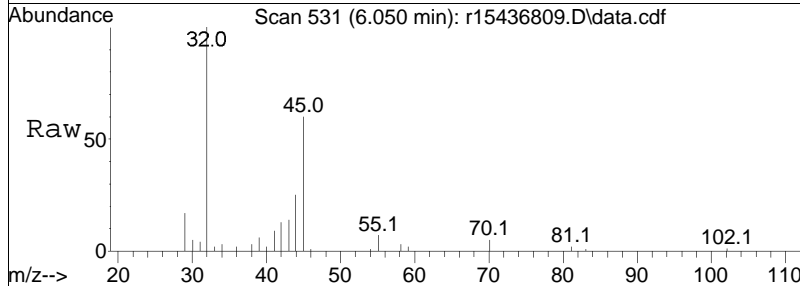
Tgt Ion	Resp	Lower	Upper
101	100		
103	59.5	48.6	73.0

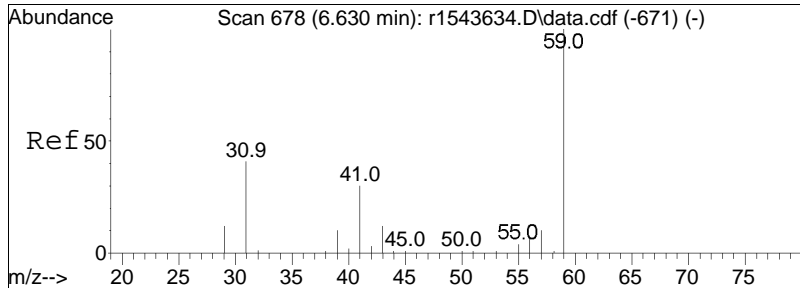




#22
 isopropyl alcohol
 Concen: 0.41 ppbV
 RT: 6.050 min Scan# 531
 Delta R.T. 0.090 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

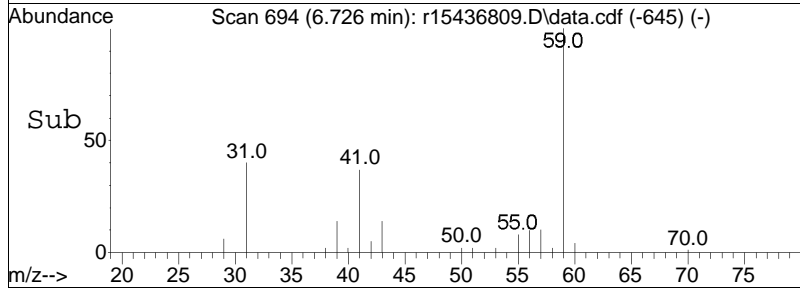
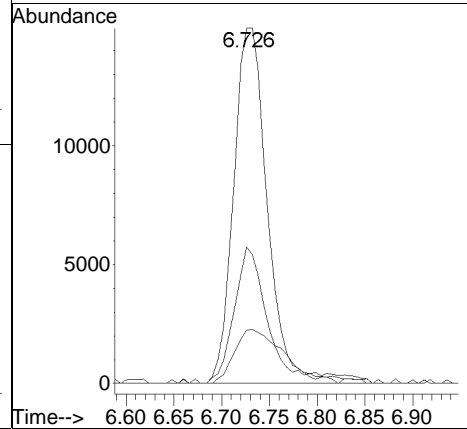
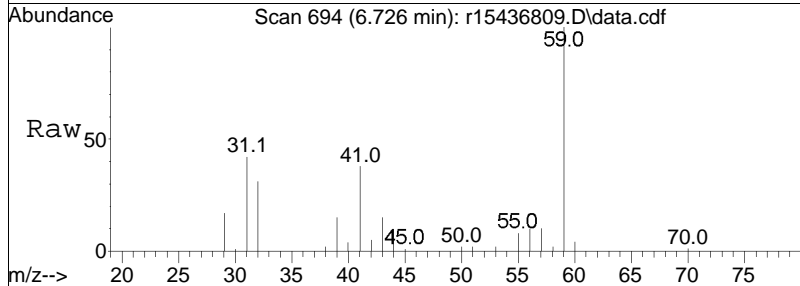
Tgt Ion	Resp	Lower	Upper
45	100		
59	4.1	3.6	5.4

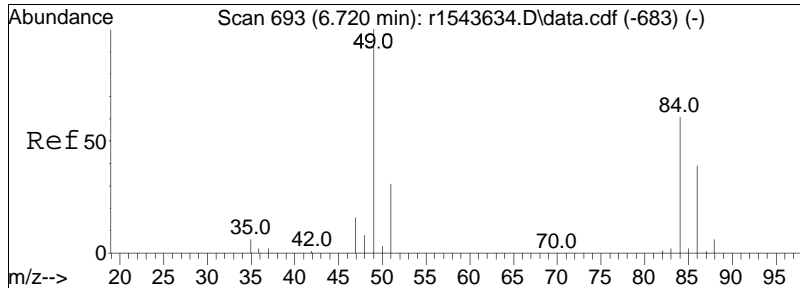




#27
 tertiary butyl alcohol
 Concen: 0.92 ppbV
 RT: 6.726 min Scan# 694
 Delta R.T. 0.096 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

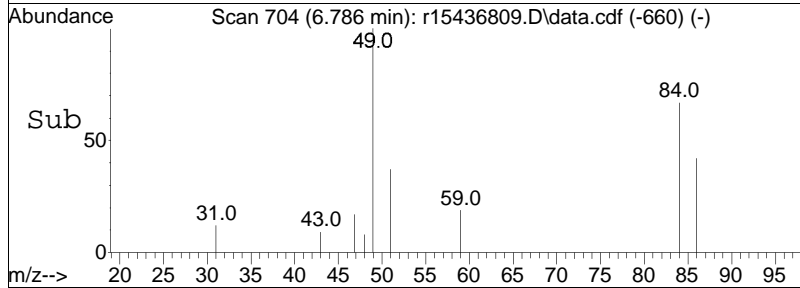
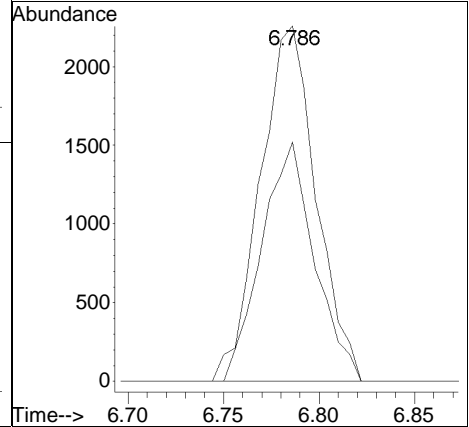
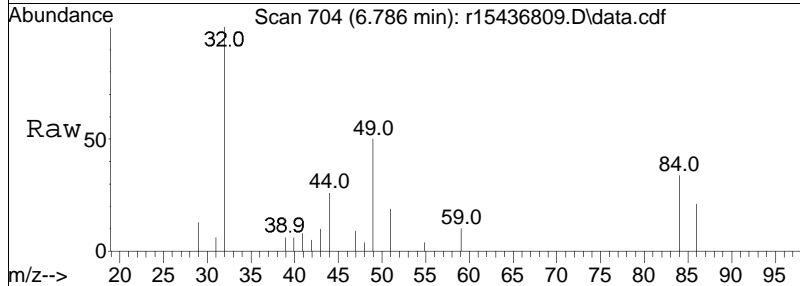
Tgt Ion	Resp	Lower	Upper
59	100		
41	38.4	23.6	35.4#
43	15.0	9.8	14.6#

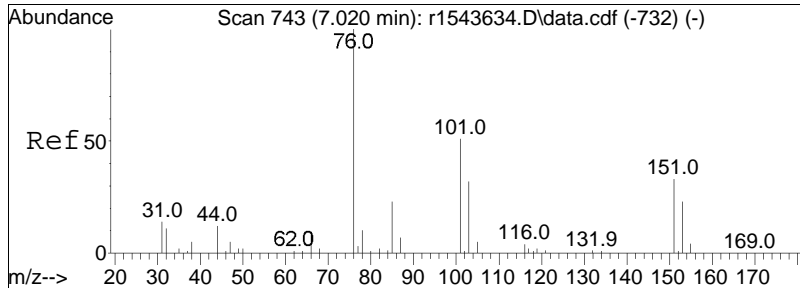




#28
 methylene chloride
 Concen: 0.16 ppbV
 RT: 6.786 min Scan# 704
 Delta R.T. 0.066 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

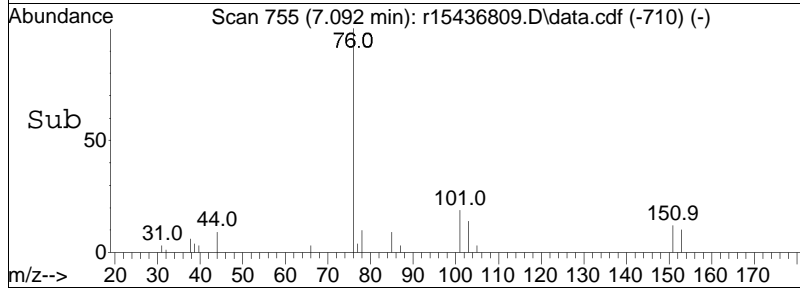
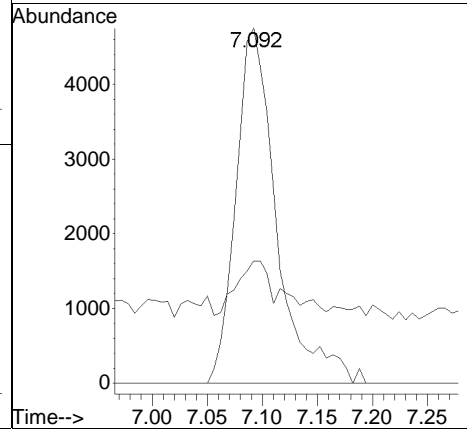
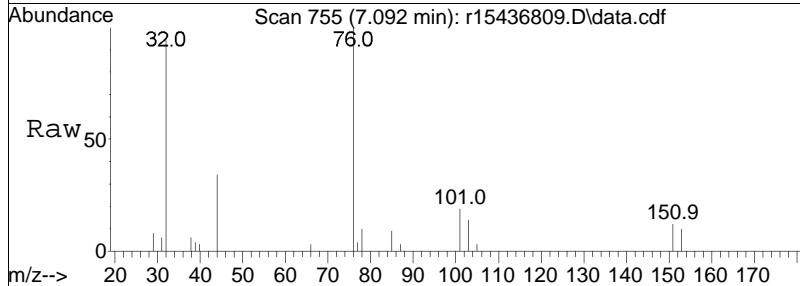
Tgt Ion:	Resp:	Lower	Upper
49	4599		
84	67.4	48.8	73.2

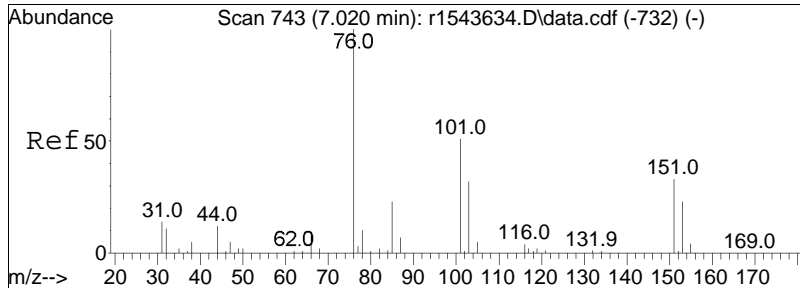




#30
 carbon disulfide
 Concen: 0.21 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

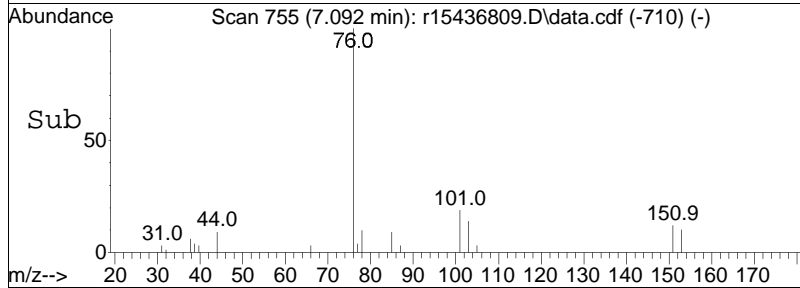
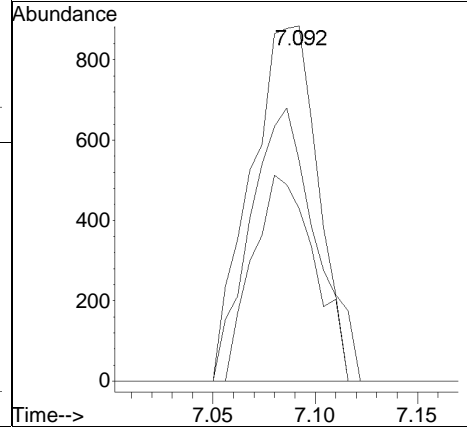
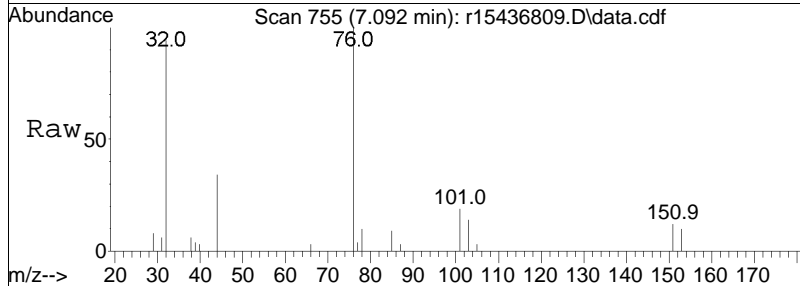
Tgt Ion: 76 Resp: 12263
 Ion Ratio Lower Upper
 76 100
 44 34.4 9.8 14.6#

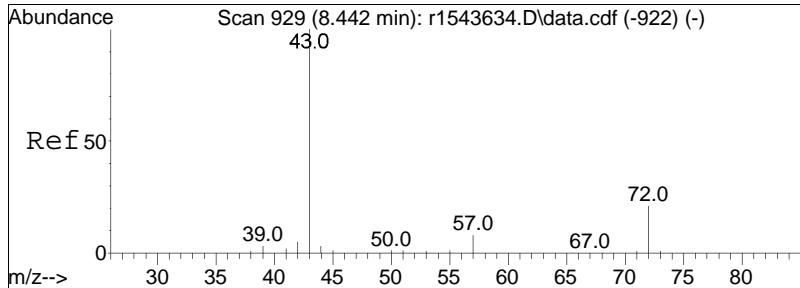




#31
 Freon 113
 Concen: 0.06 ppbV
 RT: 7.092 min Scan# 755
 Delta R.T. 0.072 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

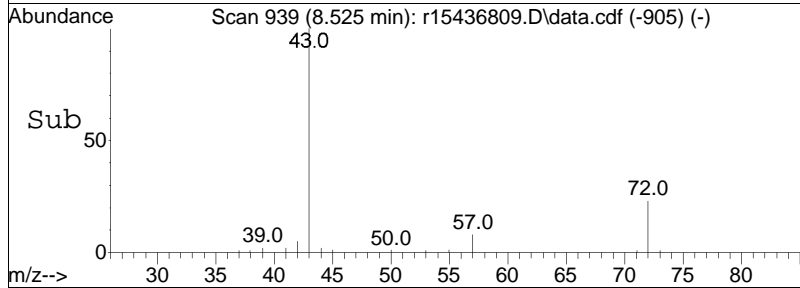
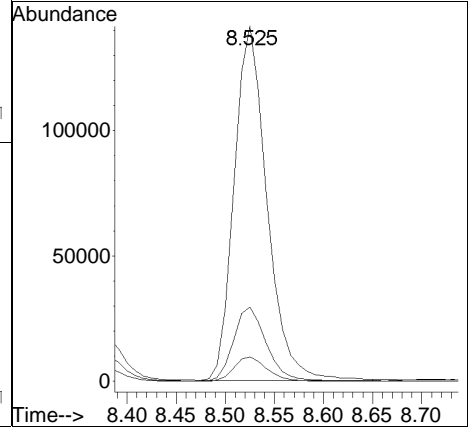
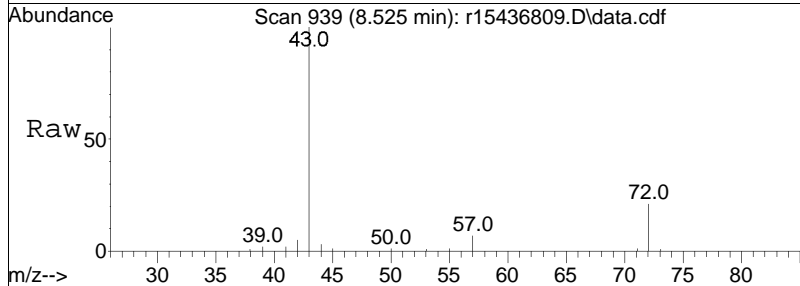
Tgt Ion	Ratio	Lower	Upper
101	100		
85	48.6	36.6	55.0
151	62.2	52.3	78.5

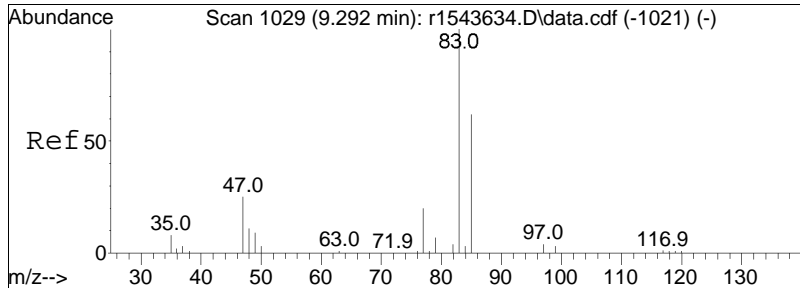




#36
 2-butanone
 Concen: 6.54 ppbV
 RT: 8.525 min Scan# 939
 Delta R.T. 0.083 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

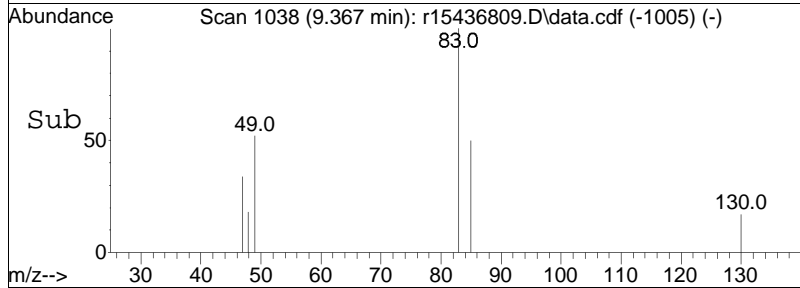
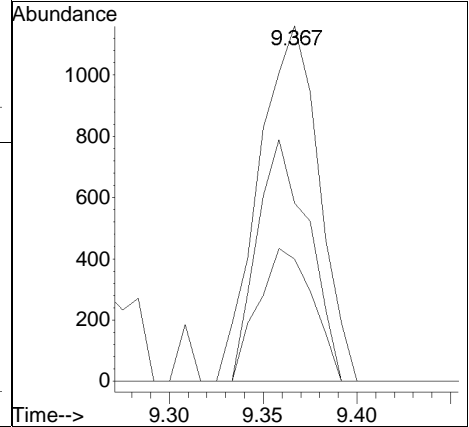
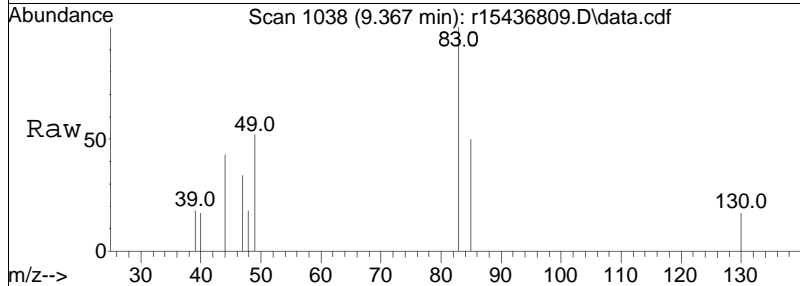
Tgt Ion:	43	Resp:	327849
Ion Ratio	Lower	Upper	
43	100		
72	20.9	16.8	25.2
57	6.9	6.0	9.0

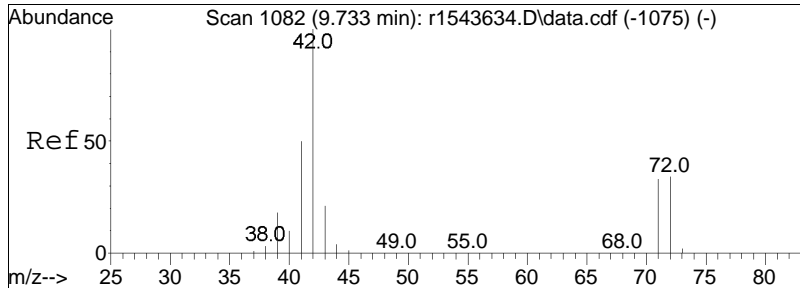




#39
 chloroform
 Concen: 0.07 ppbV
 RT: 9.367 min Scan# 1038
 Delta R.T. 0.075 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

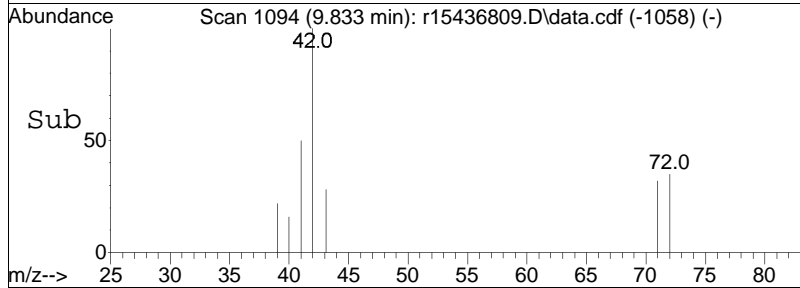
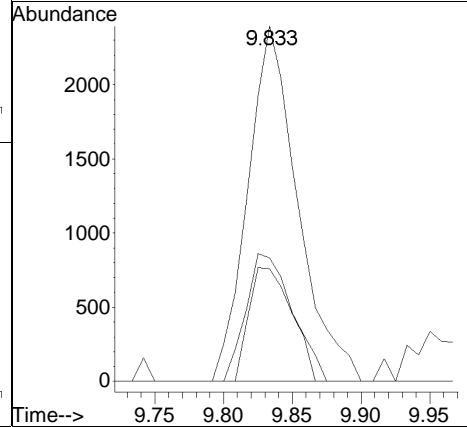
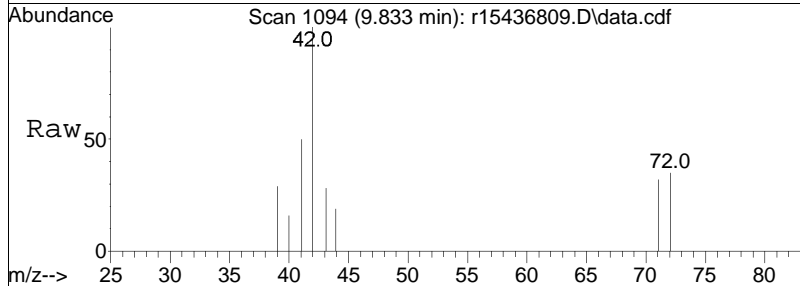
Tgt Ion	Resp	Lower	Upper
83	2591		
85	50.2	50.0	75.0
47	34.4	20.0	30.0#

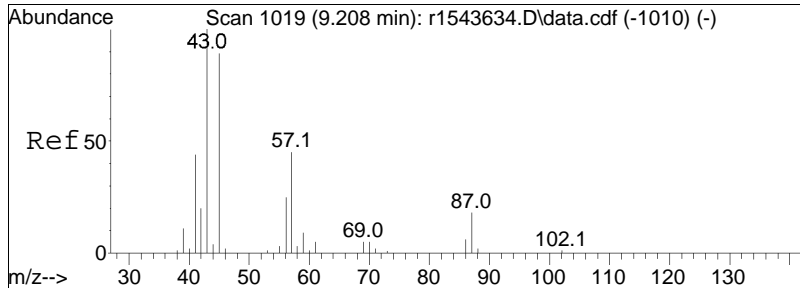




#40
 Tetrahydrofuran
 Concen: 0.20 ppbV
 RT: 9.833 min Scan# 1094
 Delta R.T. 0.100 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

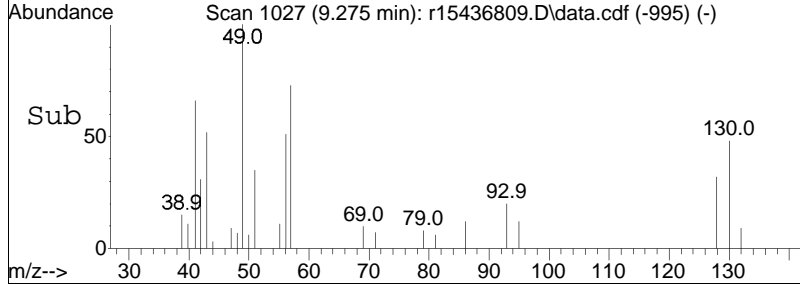
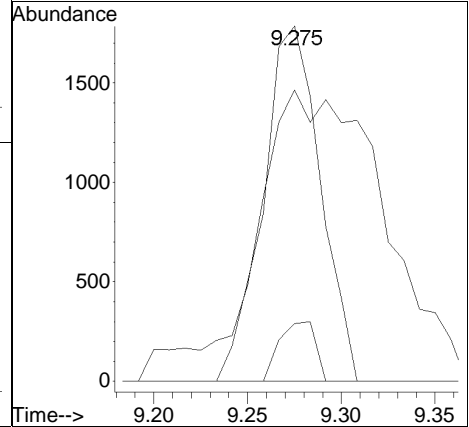
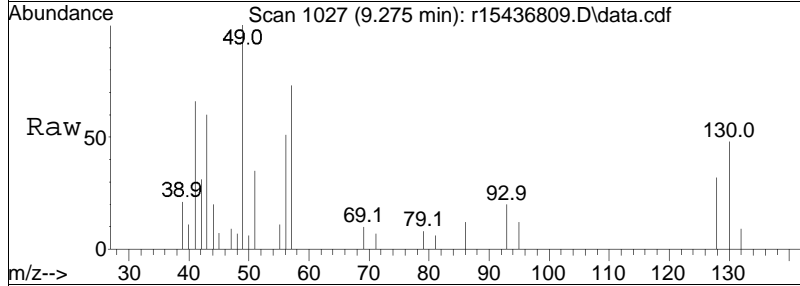
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
42	100		
71	31.7	26.1	39.1
72	34.8	27.1	40.7

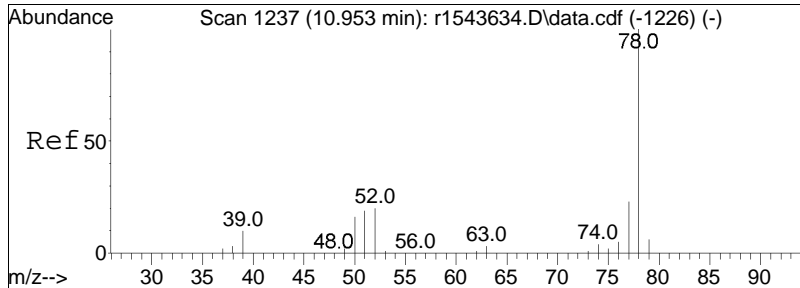




#44
 hexane
 Concen: 0.09 ppbV
 RT: 9.275 min Scan# 1027
 Delta R.T. 0.067 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

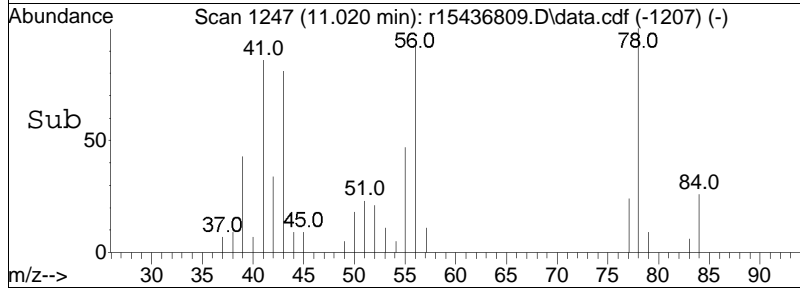
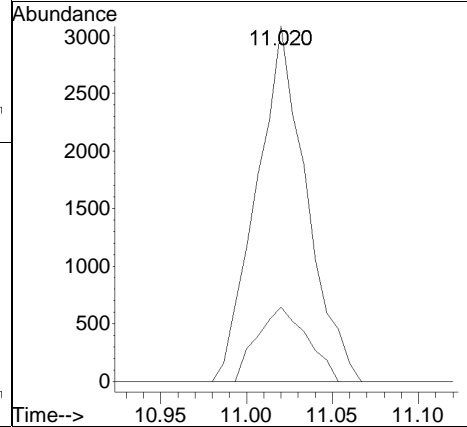
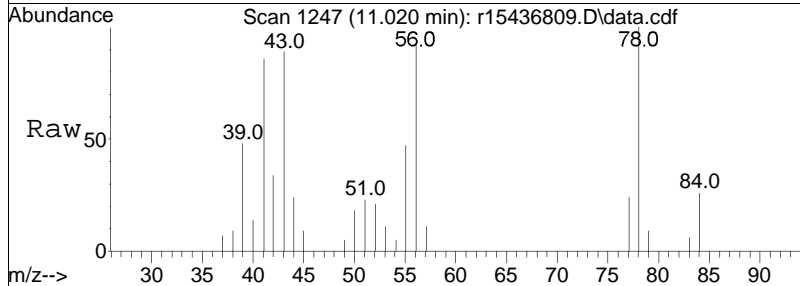
Tgt Ion	Resp	Lower	Upper
57	100		
43	82.0	179.7	269.5#
86	16.2	11.3	16.9

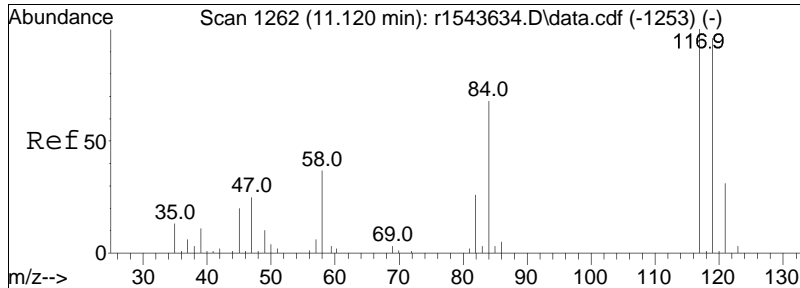




#50
benzene
Concen: 0.09 ppbV
RT: 11.020 min Scan# 1247
Delta R.T. 0.067 min
Lab File: r15436809.D
Acq: 30 Mar 2024 5:08 AM

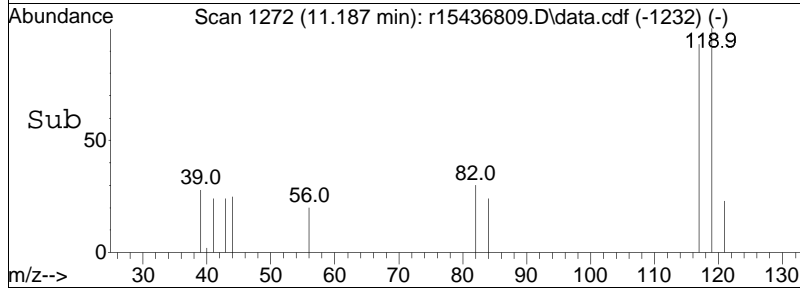
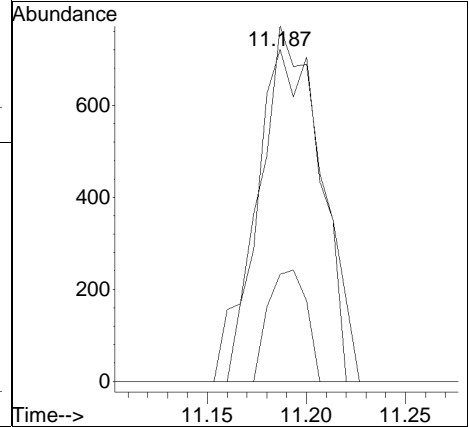
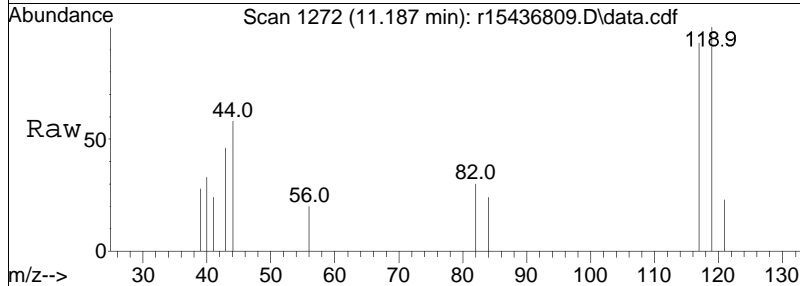
Tgt Ion: 78 Resp: 6238
Ion Ratio Lower Upper
78 100
52 20.9 16.0 24.0

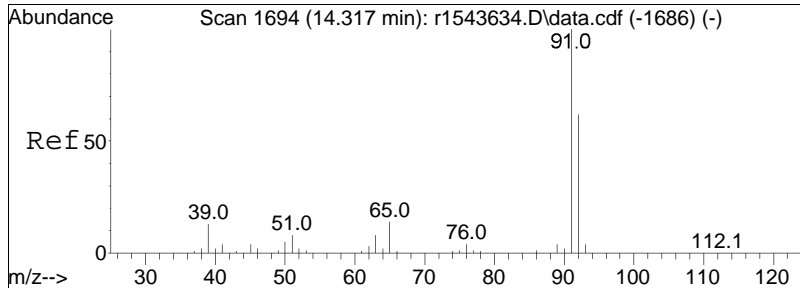




#52
 carbon tetrachloride
 Concen: 0.06 ppbV
 RT: 11.187 min Scan# 1272
 Delta R.T. 0.067 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

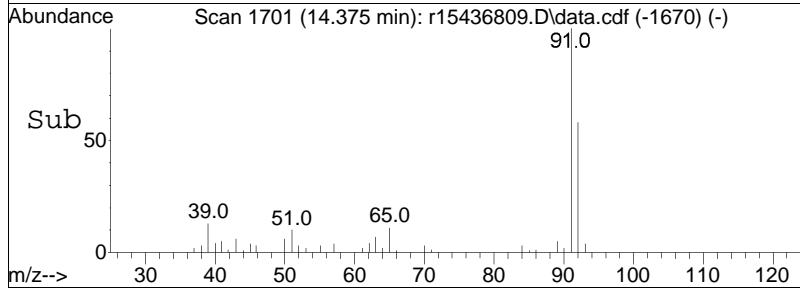
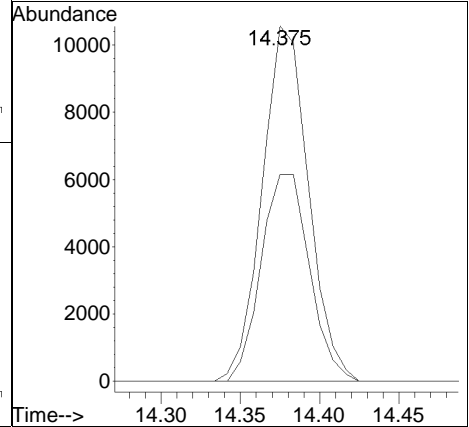
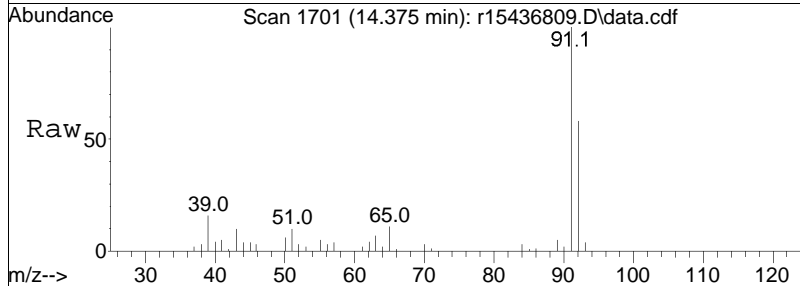
Tgt Ion	Resp	Lower	Upper
117	1697		
117	100		
119	107.1	76.7	115.1
82	32.3	20.9	31.3#

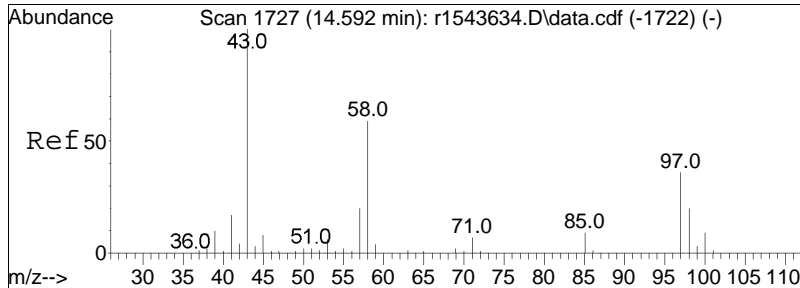




#68
 toluene
 Concen: 0.29 ppbV
 RT: 14.375 min Scan# 1701
 Delta R.T. 0.058 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

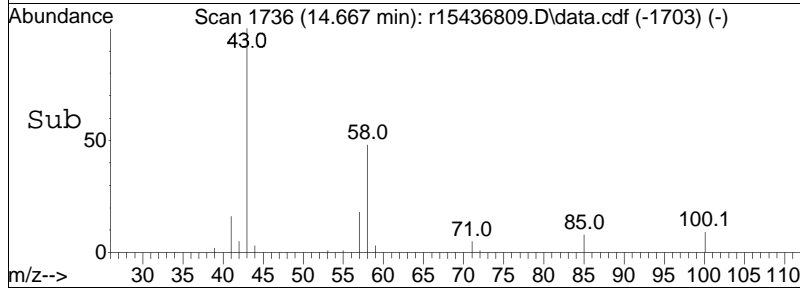
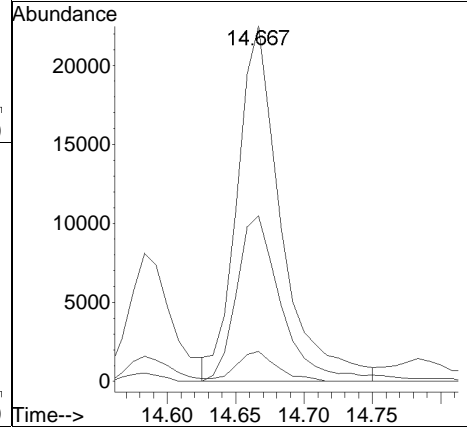
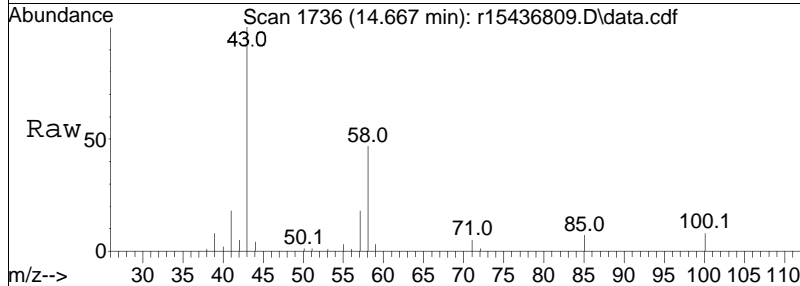
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	58.3	49.3	73.9

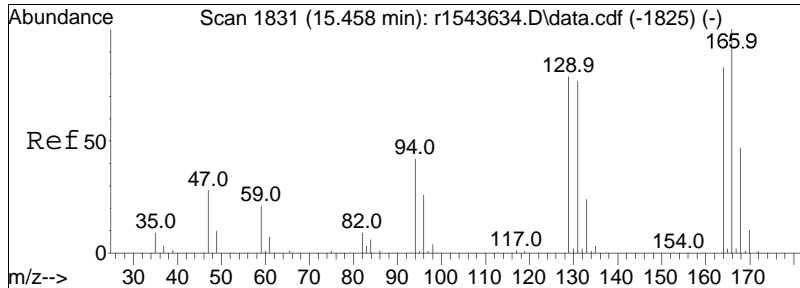




#72
 2-hexanone
 Concen: 0.98 ppbV m
 RT: 14.667 min Scan# 1736
 Delta R.T. 0.075 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

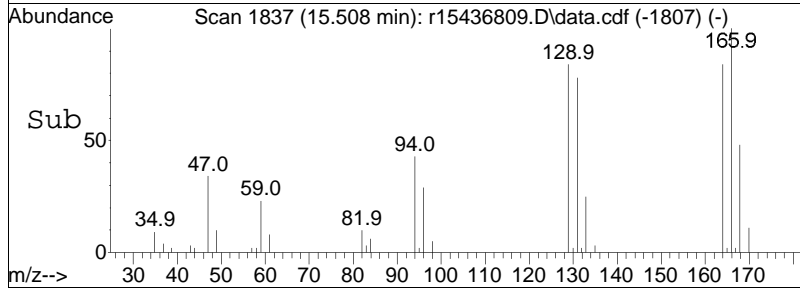
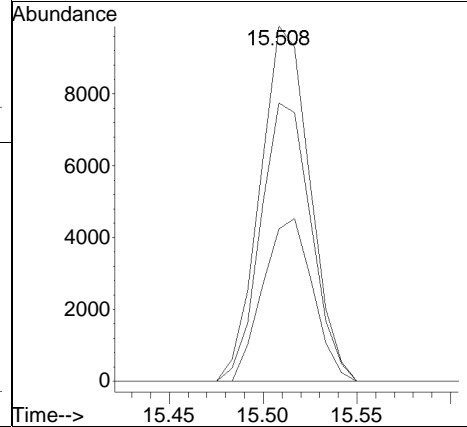
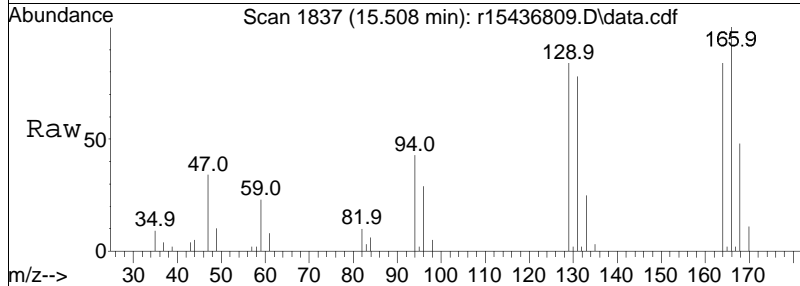
Tgt Ion:	43	Resp:	50534
Ion Ratio	Lower	Upper	
43	100		
58	46.6	47.5	71.3#
100	8.4	7.8	11.6

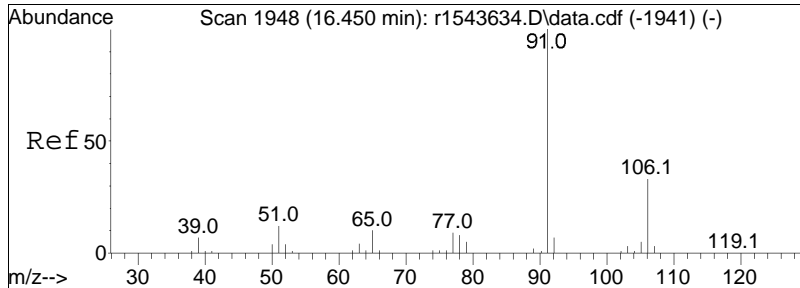




#78
 tetrachloroethene
 Concen: 0.72 ppbV
 RT: 15.508 min Scan# 1837
 Delta R.T. 0.050 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

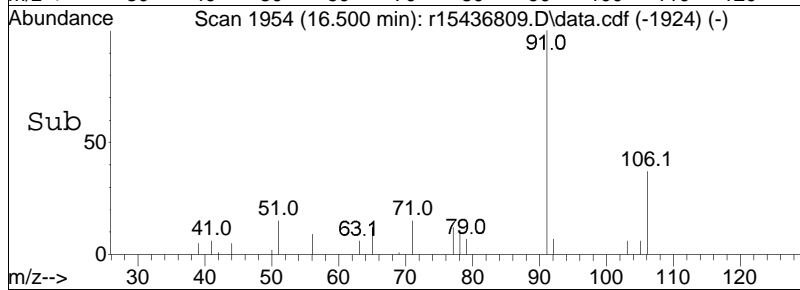
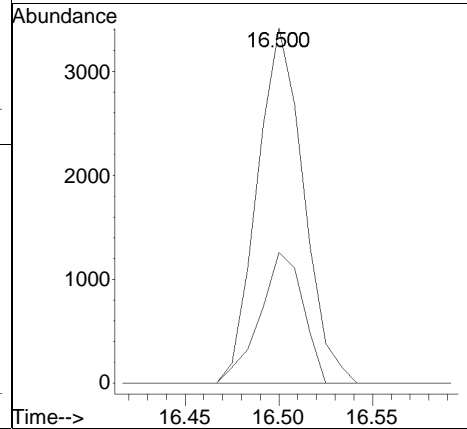
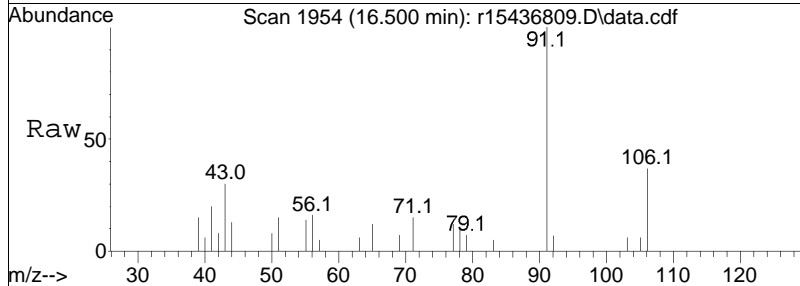
Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.4	61.6	92.4
94	42.9	34.0	51.0

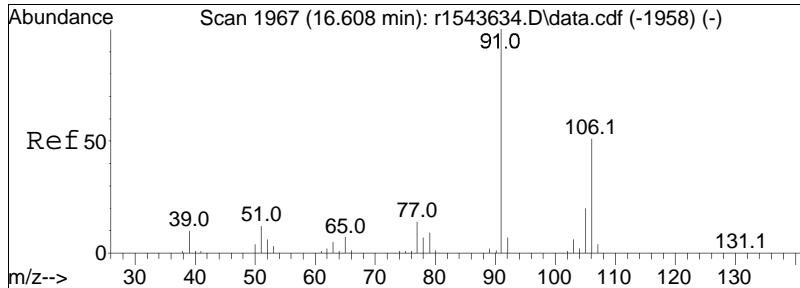




#81
 ethylbenzene
 Concen: 0.06 ppbV
 RT: 16.500 min Scan# 1954
 Delta R.T. 0.050 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

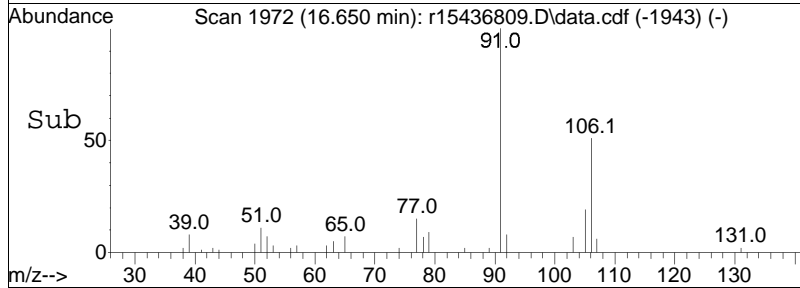
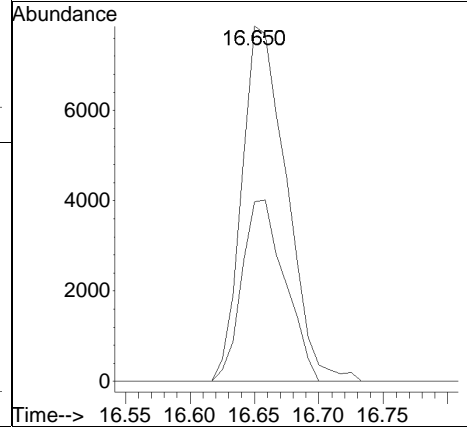
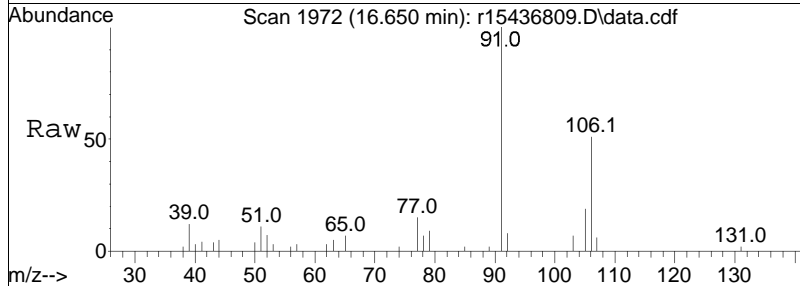
Tgt Ion: 91 Resp: 5873
 Ion Ratio Lower Upper
 91 100
 106 36.8 26.4 39.6

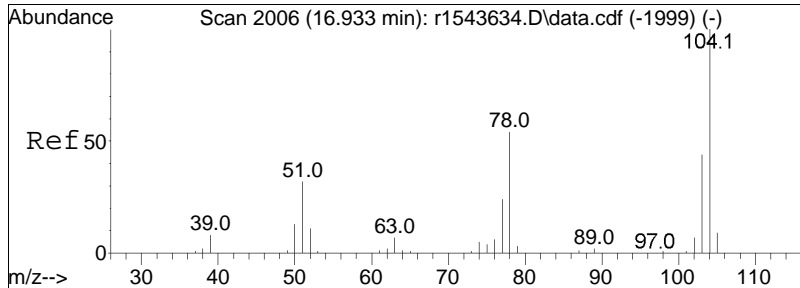




#83
 m+p-xylene
 Concen: 0.26 ppbV
 RT: 16.650 min Scan# 1972
 Delta R.T. 0.042 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

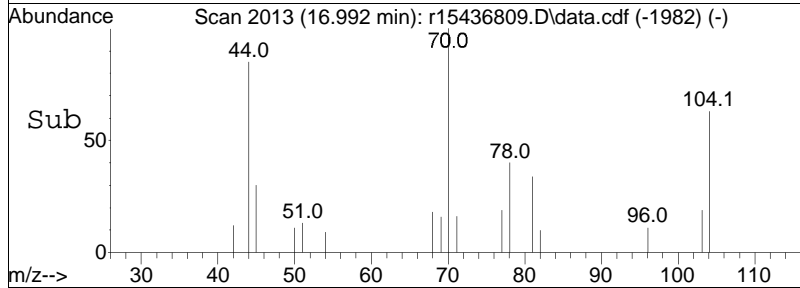
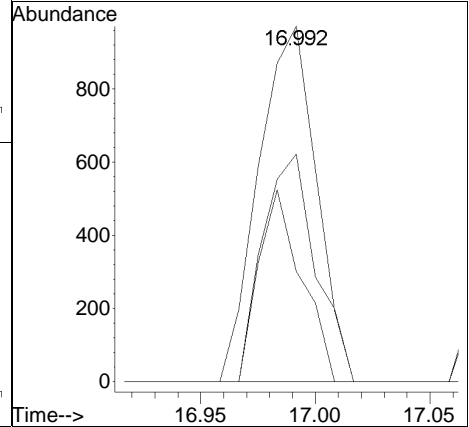
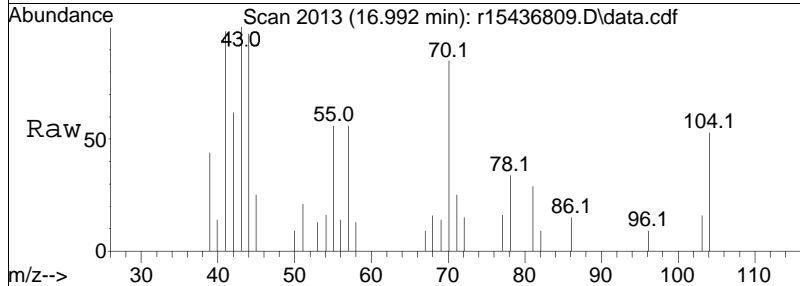
Tgt Ion: 91 Resp: 18988
 Ion Ratio Lower Upper
 91 100
 106 50.6 40.4 60.6

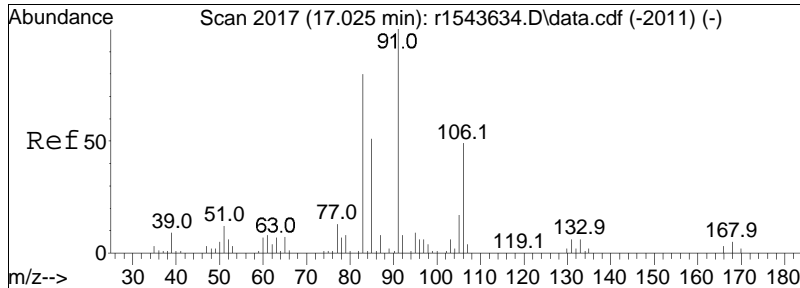




#85
 styrene
 Concen: 0.03 ppbV
 RT: 16.992 min Scan# 2013
 Delta R.T. 0.058 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

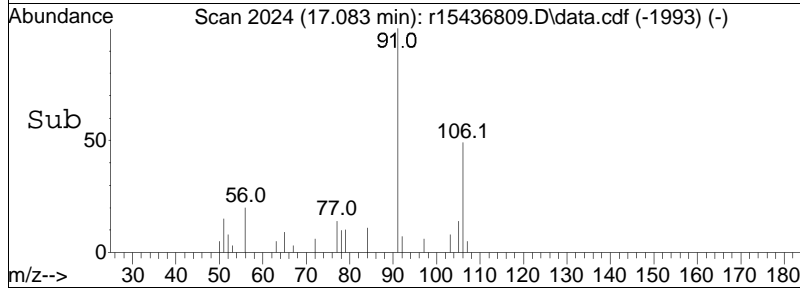
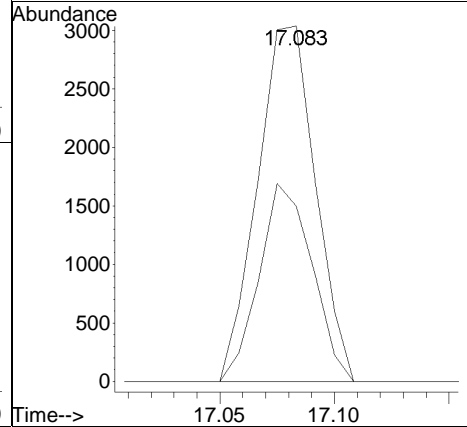
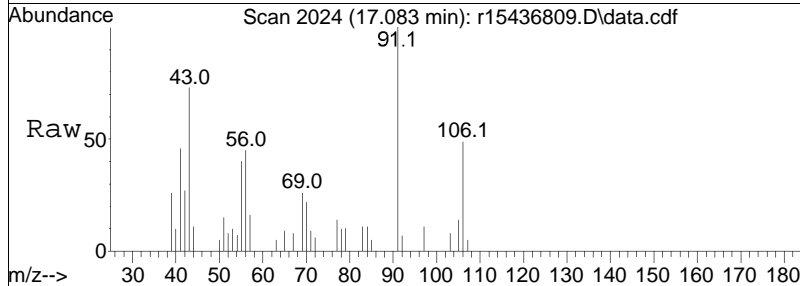
Tgt Ion	Ratio	Lower	Upper
104	100		
103	31.0	35.0	52.4#
78	64.0	42.9	64.3

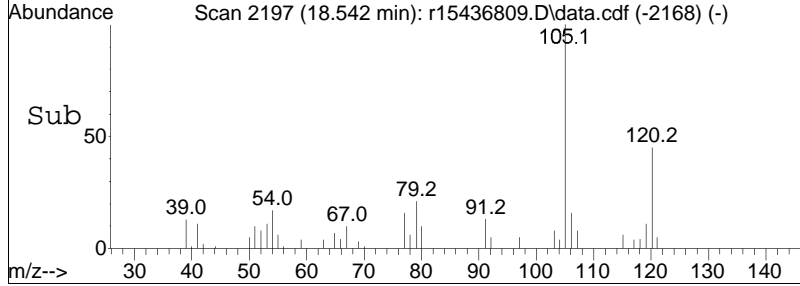
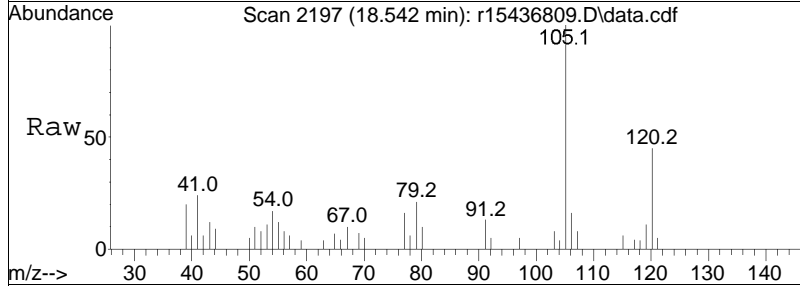
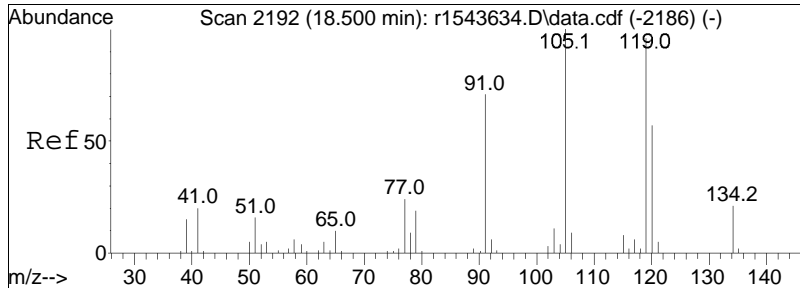




#87
 o-xylene
 Concen: 0.07 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

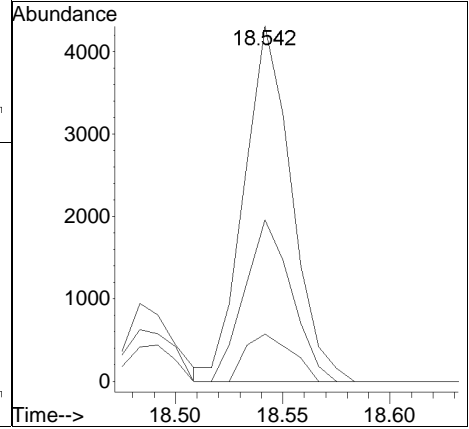
Tgt Ion:	91	Resp:	5347
Ion Ratio	Lower	Upper	
91	100		
106	49.3	39.1	58.7

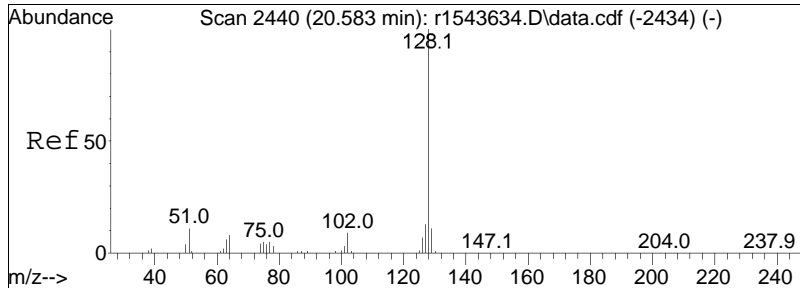




#99
 1,2,4-trimethylbenzene
 Concen: 0.08 ppbV m
 RT: 18.542 min Scan# 2197
 Delta R.T. 0.042 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

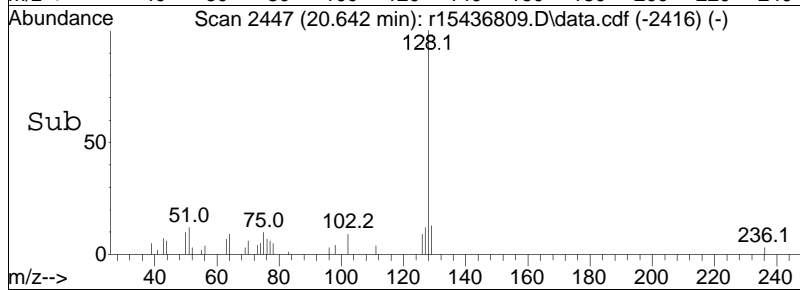
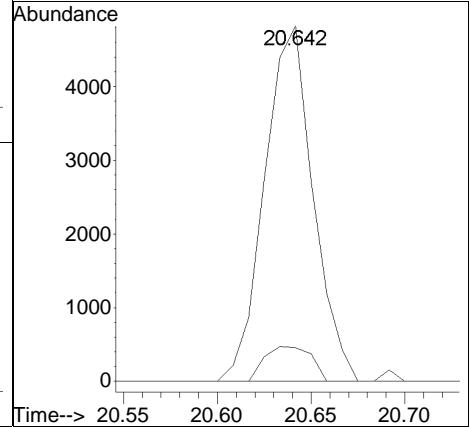
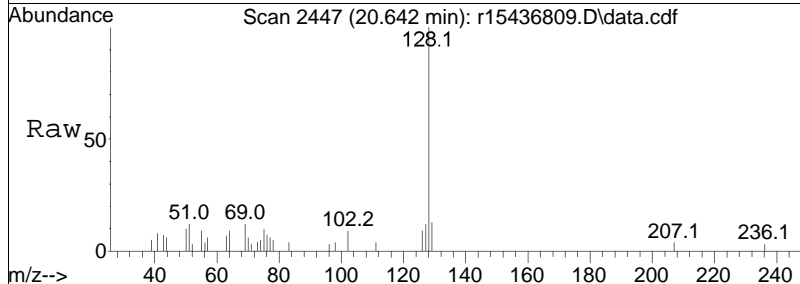
Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.5	45.8	68.8#
91	13.3	56.7	85.1#





#116
 naphthalene
 Concen: 0.09 ppbV
 RT: 20.642 min Scan# 2447
 Delta R.T. 0.058 min
 Lab File: r15436809.D
 Acq: 30 Mar 2024 5:08 AM

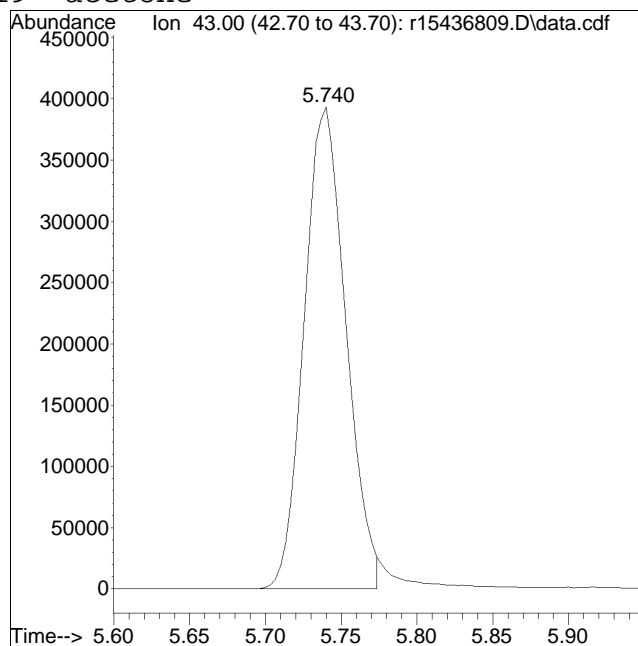
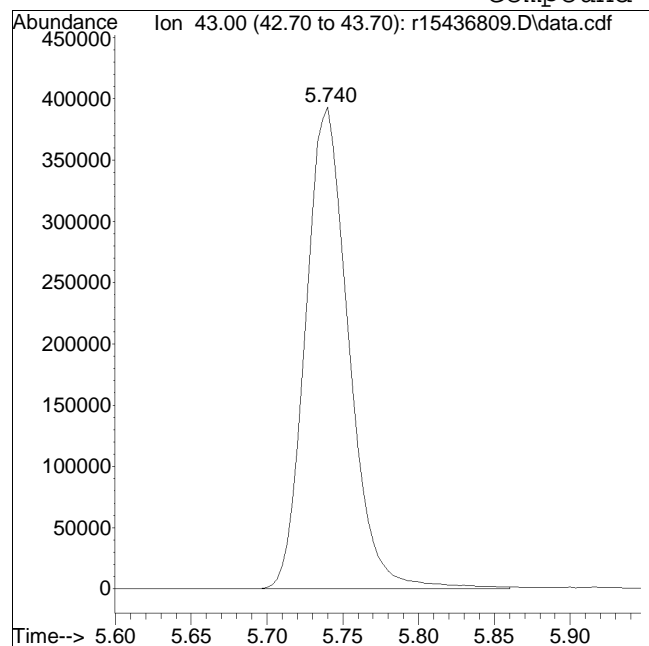
Tgt Ion	Ratio	Lower	Upper
128	100		
102	9.5	6.8	10.2



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436809.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 8 Instrument :
Sample : L2414212-12,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #19: acetone



Original Peak Response = 780324

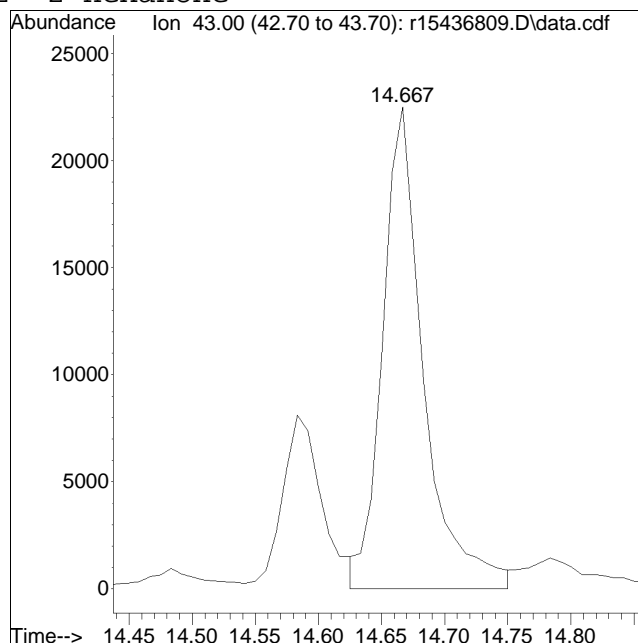
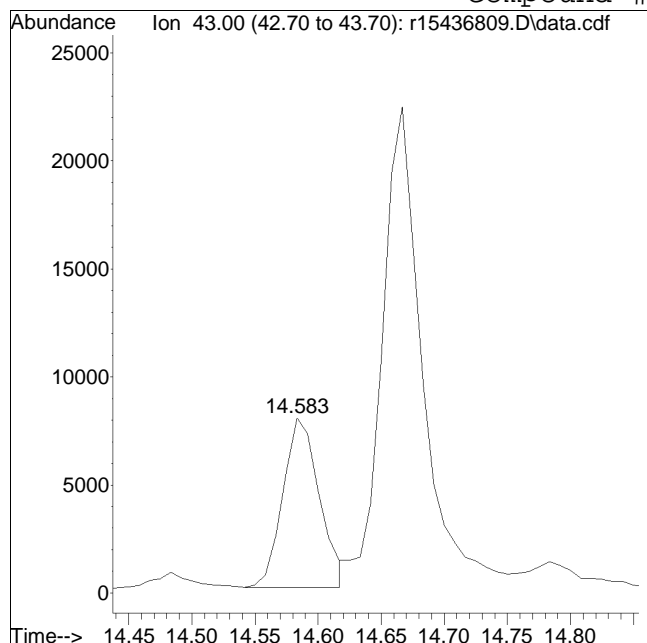
Manual Peak Response = 753524 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436809.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 8 Instrument :
Sample : L2414212-12,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #72: 2-hexanone



Original Peak Response = 15755

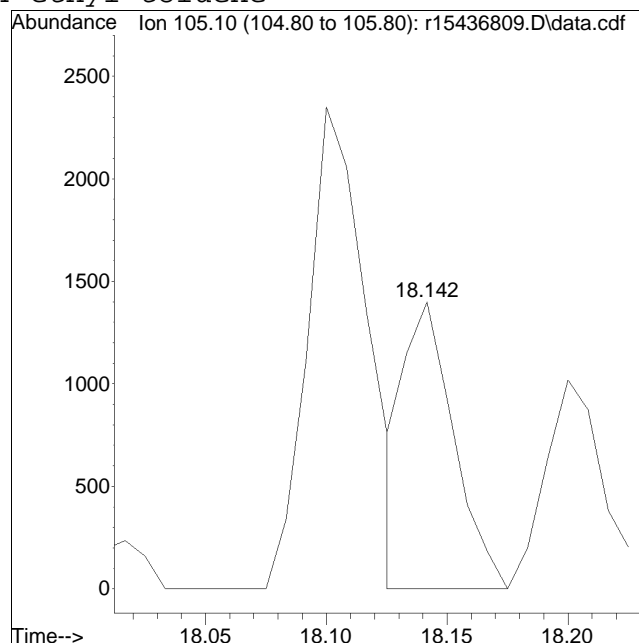
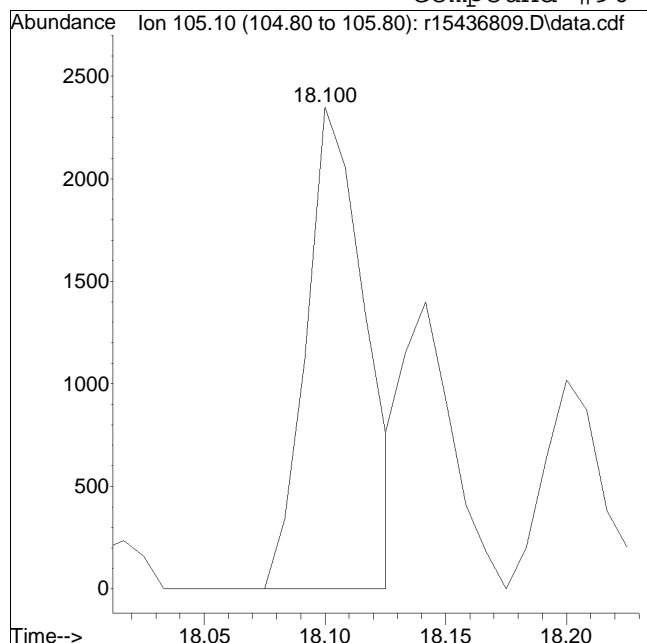
Manual Peak Response = 50534 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436809.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 8 Instrument :
Sample : L2414212-12,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #96: 4-ethyl toluene



Original Peak Response = 3990

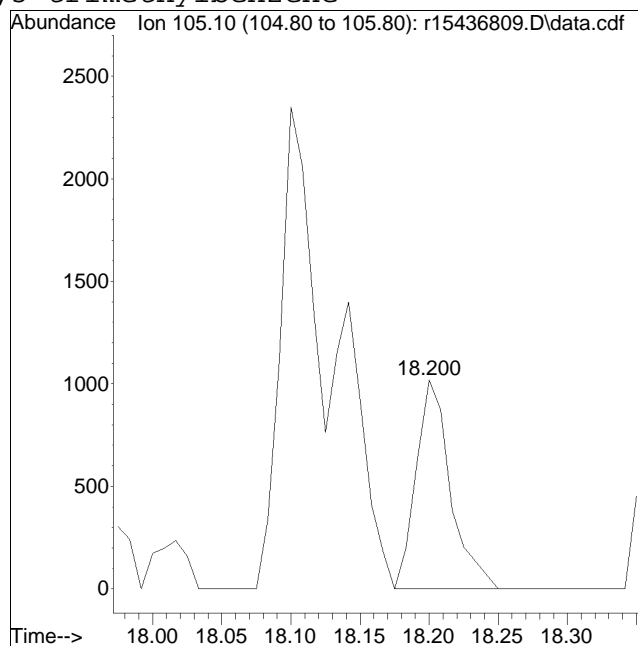
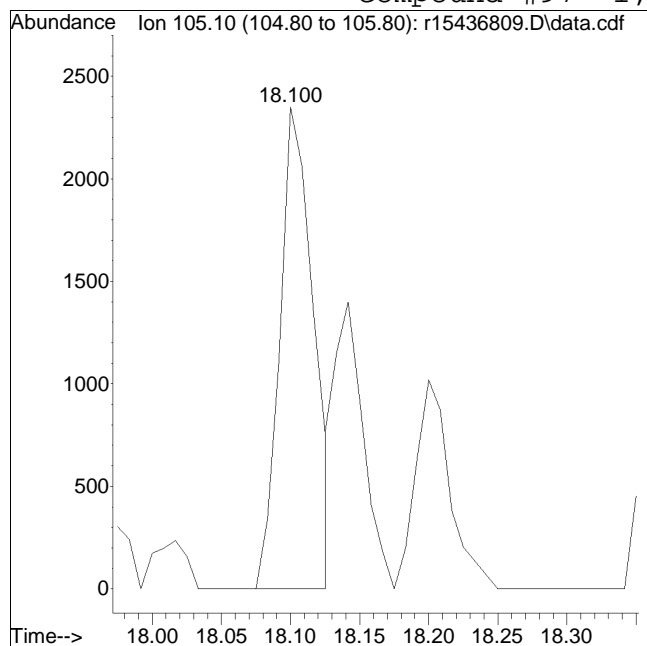
Manual Peak Response = 2034 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436809.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 8 Instrument :
Sample : L2414212-12,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 3990

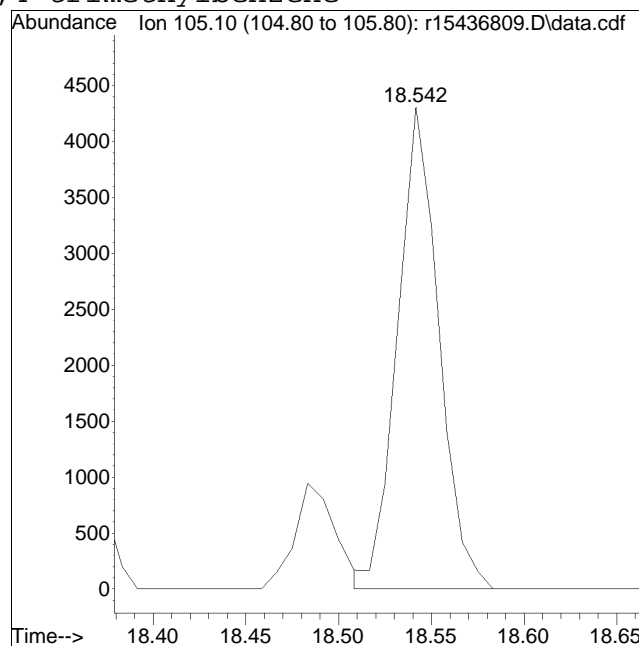
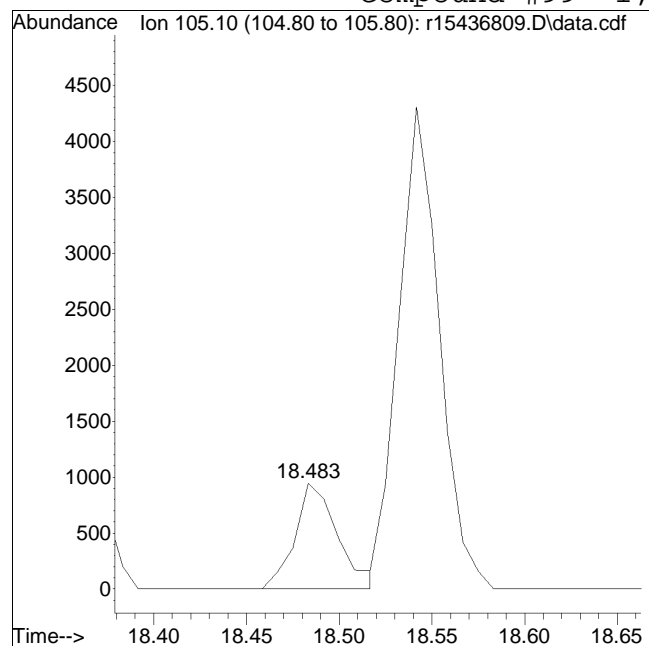
Manual Peak Response = 2075 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436809.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 8 Instrument :
Sample : L2414212-12,3,250,250 Quant Date : 3/30/2024 7:30 am

Compound #99: 1,2,4-trimethylbenzene



Original Peak Response = 1522

Manual Peak Response = 6654 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436810.D
 Acq On : 30 Mar 2024 5:47 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-09D,3,0.19,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:49 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.208	49	345849	10.000	ppbV	0.07
Standard Area =	358796		Recovery =		96.39%	
43) 1,4-difluorobenzene	11.440	114	733140	10.000	ppbV	0.07
Standard Area =	735074		Recovery =		99.74%	
67) chlorobenzene-D5	16.117	54	154188	10.000	ppbV	0.05
Standard Area =	162298		Recovery =		95.00%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.054	85	2530	0.066	ppbV	94
6) chloromethane	4.048		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.254	31	2553	0.119	ppbV	93
17) vinyl bromide	5.547		0	N.D.		
19) acetone	5.673		0	N.D.		
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	6.010		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.792		0	N.D.		
29) 3-chloropropene	6.762		0	N.D.		
30) carbon disulfide	7.092		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	7.842		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.575		0	N.D.		
37) cis-1,2-dichloroethene	9.025	61	1552	0.056	ppbV #	86
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.367	83	1961	0.053	ppbV #	87
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436810.D
 Acq On : 30 Mar 2024 5:47 AM
 Operator : AIRLAB15:BJB
 Sample : L2414212-09D,3,0.19,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:49 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	11.033		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	12.247	130	5107	0.228	ppbV	94
60) 2,2,4-trimethylpentane	12.300		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	13.367		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	14.383		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	15.508	166	1406591	57.223	ppbV	96
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	0.000		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	0.000		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	0.000		0		N.D.	
96) 4-ethyl toluene	0.000		0		N.D.	
97) 1,3,5-trimethylbenzene	18.117		0		N.D.	
99) 1,2,4-trimethylbenzene	18.550		0		N.D.	
101) Benzyl Chloride	0.000		0		N.D.	
102) 1,3-dichlorobenzene	0.000		0		N.D.	
103) 1,4-dichlorobenzene	0.000		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	20.683		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436810.D
Acq On : 30 Mar 2024 5:47 AM
Operator : AIRLAB15:BJB
Sample : L2414212-09D,3,0.19,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:30:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

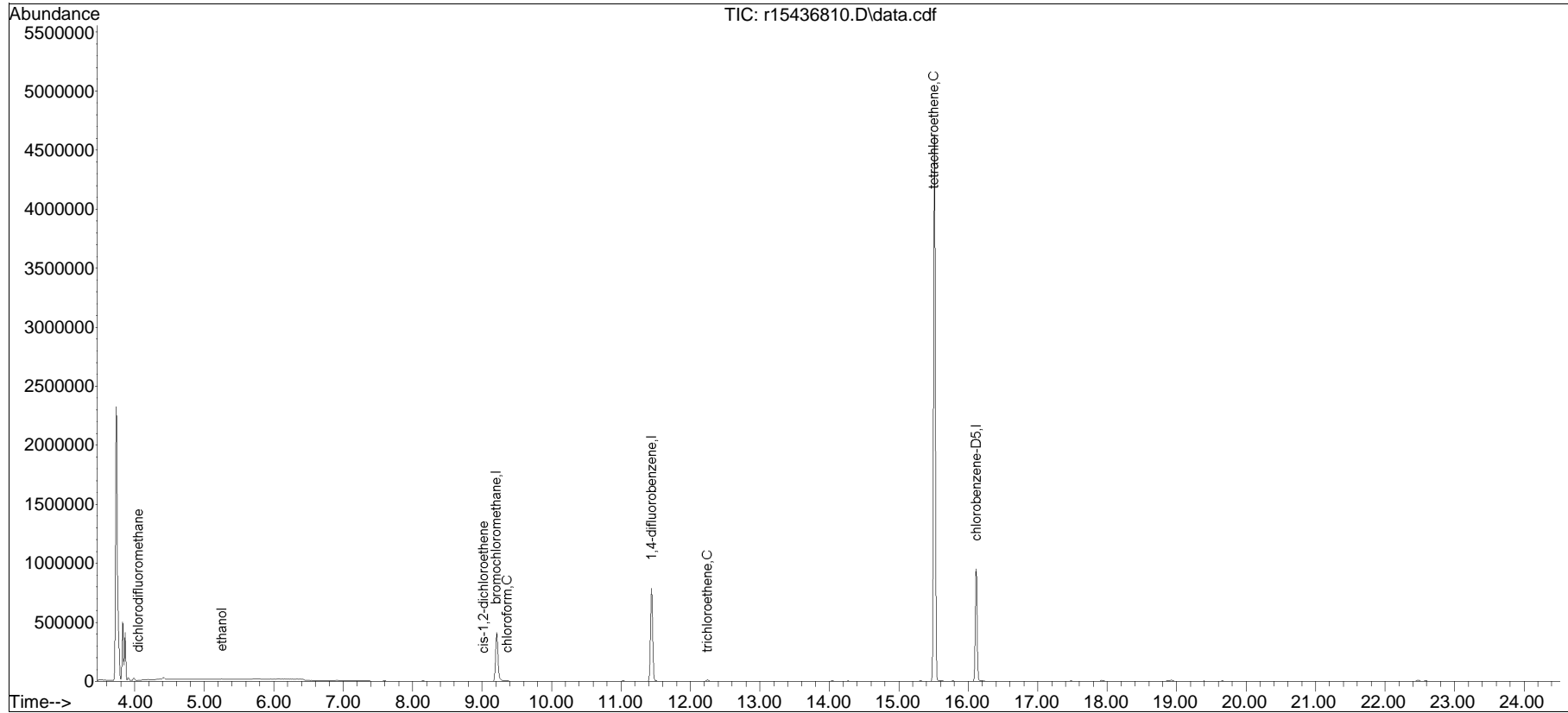
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : TO15-NY+Naphthalene - .

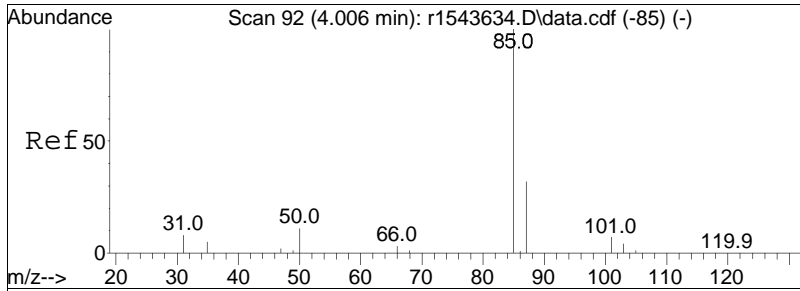
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b15\2024\03\0329T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436810.D
Acq On : 30 Mar 2024 5:47 AM
Operator : AIRLAB15:BJB
Sample : L2414212-09D,3,0.19,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

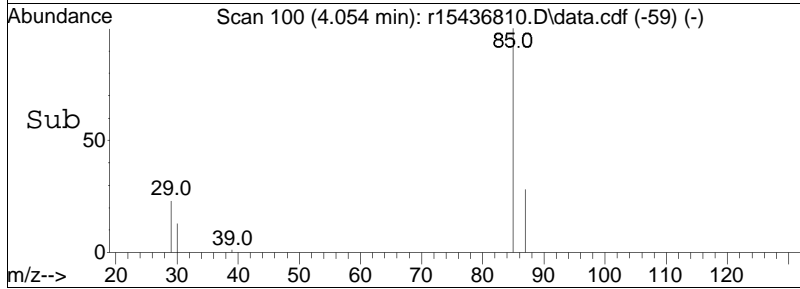
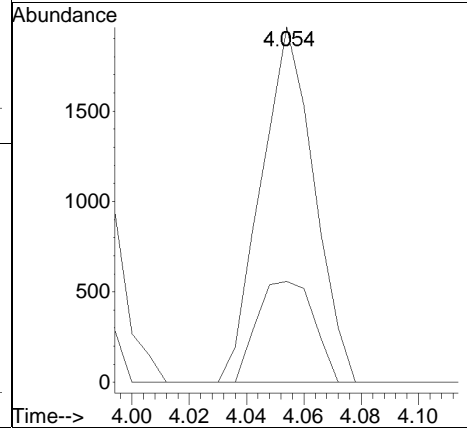
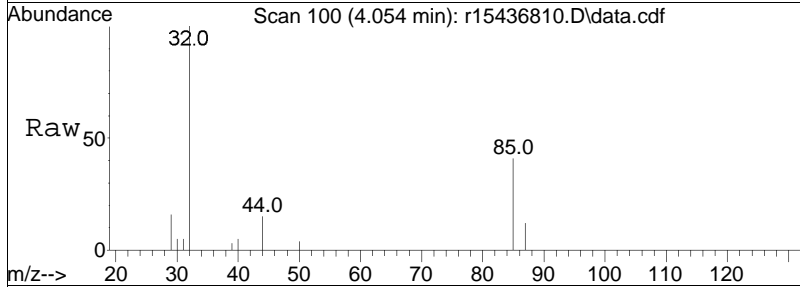
Quant Time: Mar 30 07:30:49 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

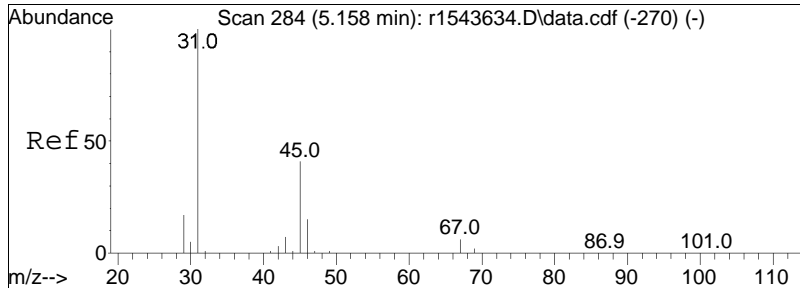




#5
dichlorodifluoromethane
Concen: 0.07 ppbV
RT: 4.054 min Scan# 100
Delta R.T. 0.048 min
Lab File: r15436810.D
Acq: 30 Mar 2024 5:47 AM

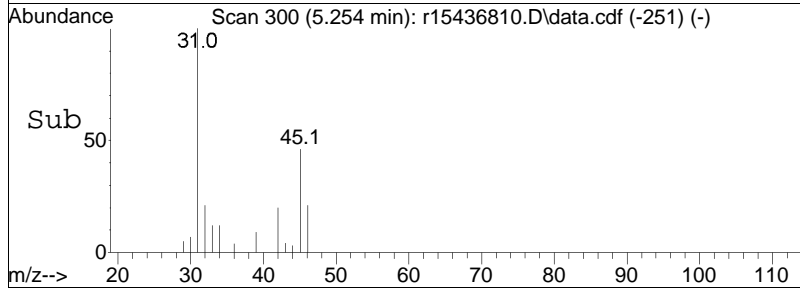
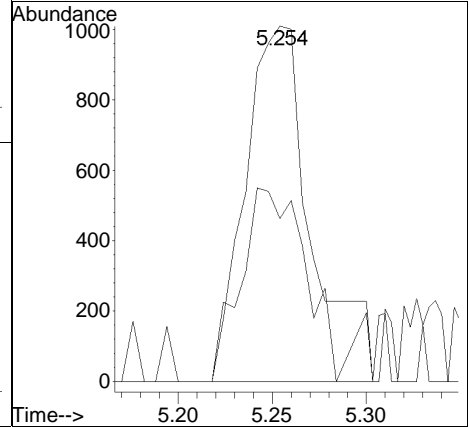
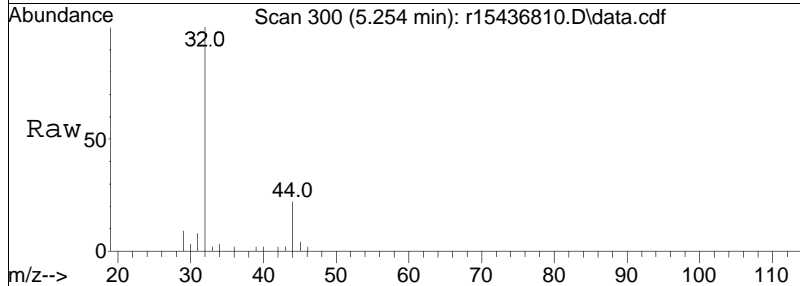
Tgt Ion: 85 Resp: 2530
Ion Ratio Lower Upper
85 100
87 28.4 25.5 38.3

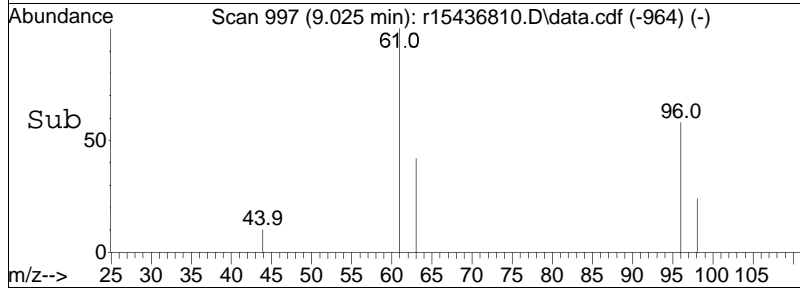
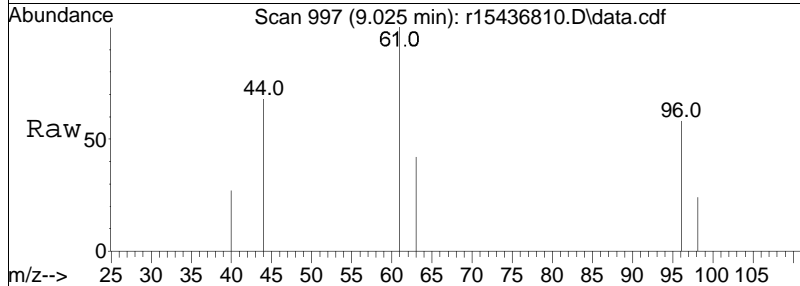
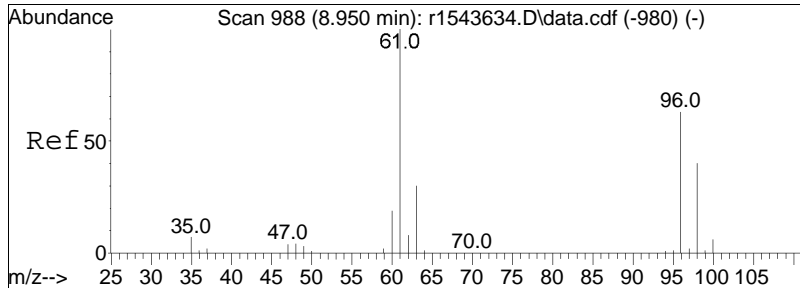




#15
 ethanol
 Concen: 0.12 ppbV
 RT: 5.254 min Scan# 300
 Delta R.T. 0.096 min
 Lab File: r15436810.D
 Acq: 30 Mar 2024 5:47 AM

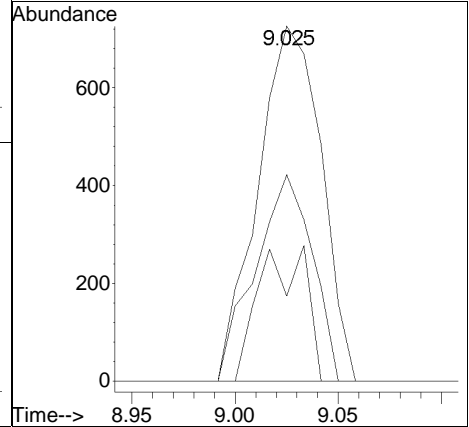
Tgt Ion	Resp	Lower	Upper
31	100		
45	45.8	33.0	49.4

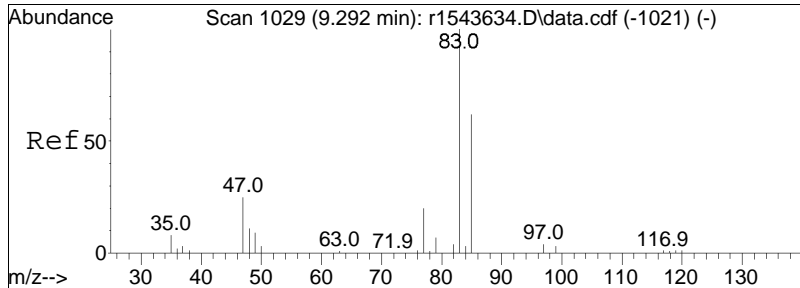




#37
 cis-1,2-dichloroethene
 Concen: 0.06 ppbV
 RT: 9.025 min Scan# 997
 Delta R.T. 0.075 min
 Lab File: r15436810.D
 Acq: 30 Mar 2024 5:47 AM

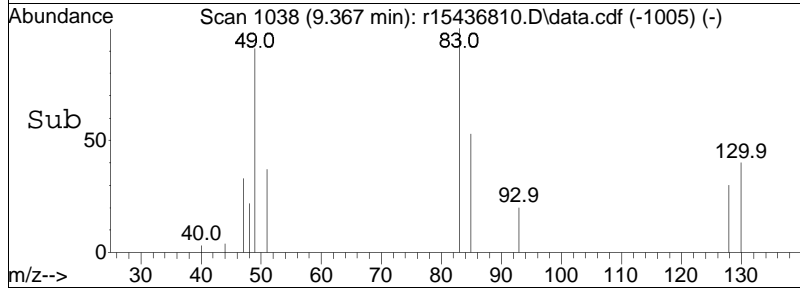
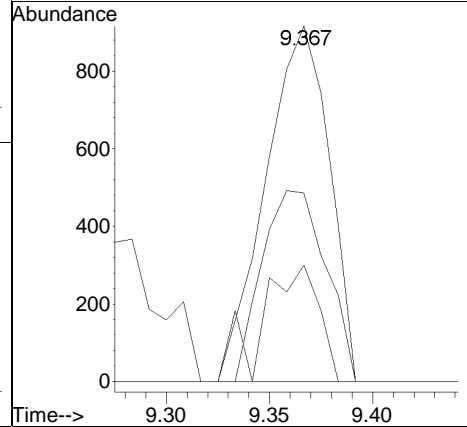
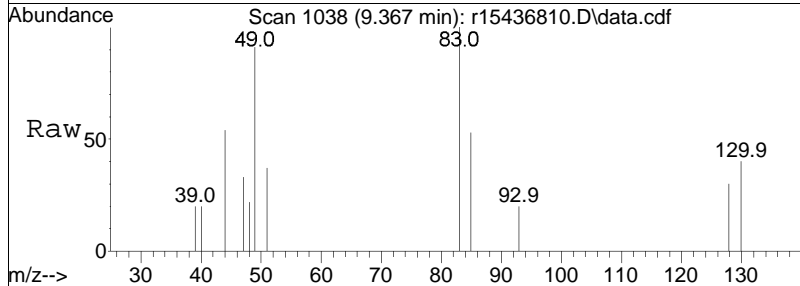
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
96	58.1	50.7	76.1
98	24.0	31.9	47.9#

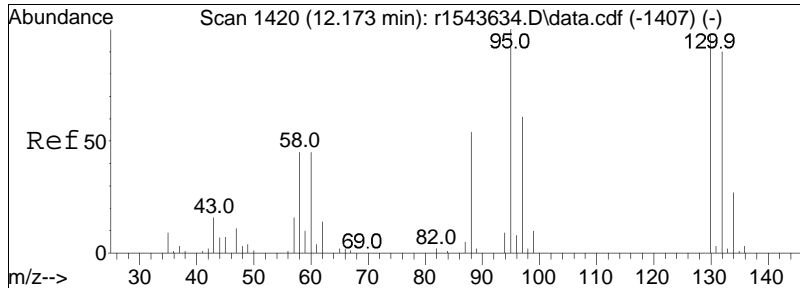




#39
 chloroform
 Concen: 0.05 ppbV
 RT: 9.367 min Scan# 1038
 Delta R.T. 0.075 min
 Lab File: r15436810.D
 Acq: 30 Mar 2024 5:47 AM

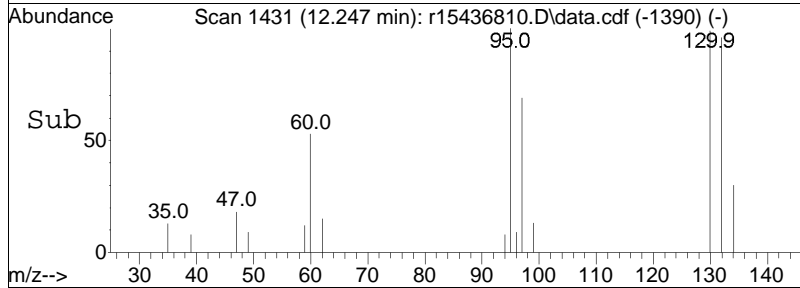
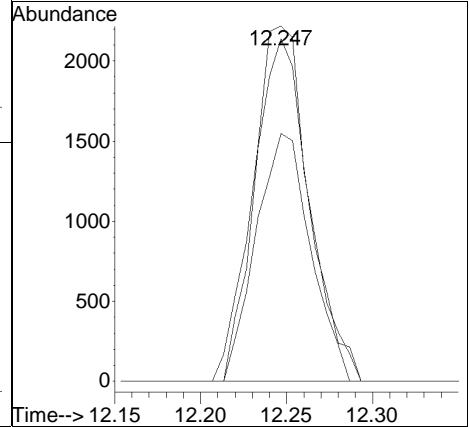
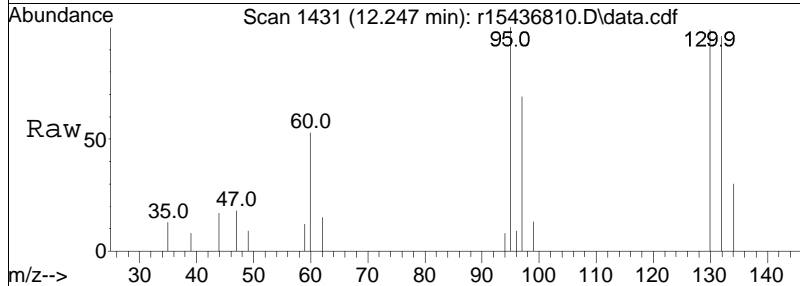
Tgt Ion:	83	Resp:	1961
Ion Ratio	Lower	Upper	
83	100		
85	53.1	50.0	75.0
47	32.8	20.0	30.0#

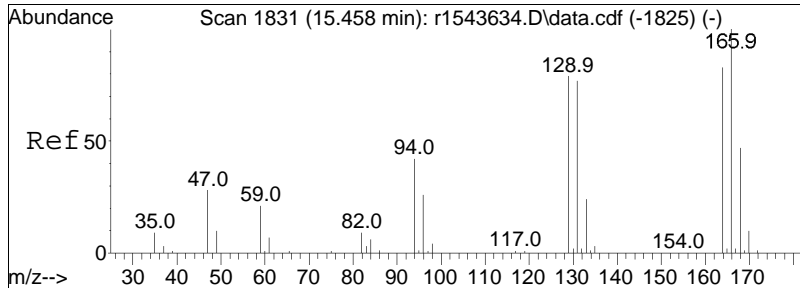




#59
 trichloroethene
 Concen: 0.23 ppbV
 RT: 12.247 min Scan# 1431
 Delta R.T. 0.073 min
 Lab File: r15436810.D
 Acq: 30 Mar 2024 5:47 AM

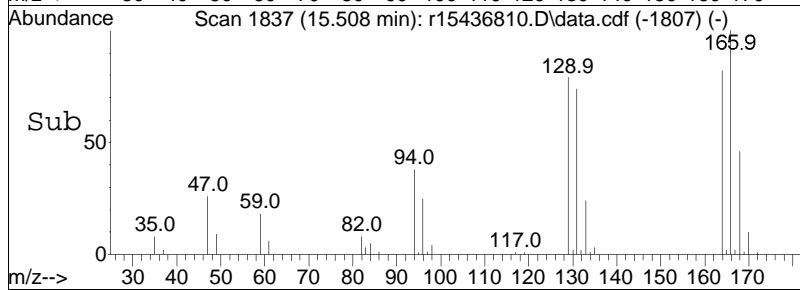
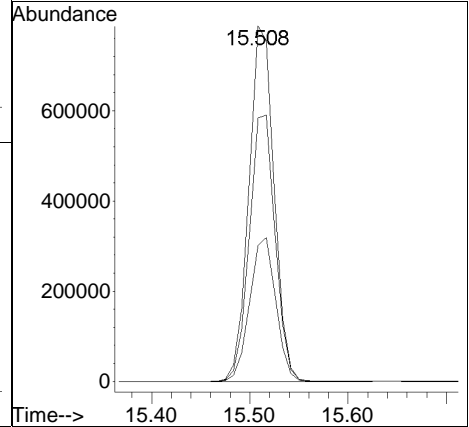
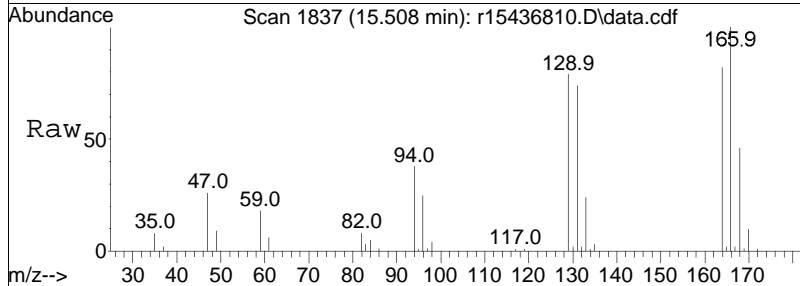
Tgt Ion	Ratio	Lower	Upper
130	100		
132	96.5	74.4	111.6
97	69.7	50.4	75.6





#78
 tetrachloroethene
 Concen: 57.22 ppbV
 RT: 15.508 min Scan# 1837
 Delta R.T. 0.050 min
 Lab File: r15436810.D
 Acq: 30 Mar 2024 5:47 AM

Tgt Ion	Resp	Lower	Upper
166	100		
131	74.2	61.6	92.4
94	38.4	34.0	51.0



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436810.D Operator : AIRLAB15:BJB
Date Inj'd : 3/30/2020 0:5: 7 Instrument :
Sample : L2414212-09D,3,0.19,250 Quant Date : 3/30/2024 7:30 am

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB22	Ical Ref	: ICAL20613
Calibration dates	: 11/29/23 22:39 11/30/23 02:24		

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	0.631	0.729	0.807	0.631	0.728	0.575	0.583	0.653	0.667	12.10
3) propylene		0.593	0.538	0.530	0.498	0.545	0.530	0.541	0.539	5.23
4) propane		0.608	0.500	0.423	0.404	0.381	0.365	0.358	0.434	20.82
5) dichlorodifluoromethane	0.956	0.956	0.898	0.877	0.765	0.761	0.672	0.559	0.805	17.63
6) C chloromethane	0.485	0.458	0.456	0.427	0.428	0.419	0.413	0.409	0.437	6.06
7) Freon-114	1.406	1.390	1.366	1.249	1.201	1.064	0.907	0.750	1.167	20.67
8) C methanol			0.225	0.180	0.175	0.165	0.154	0.146	0.174	16.08
9) C vinyl chloride	0.618	0.619	0.608	0.577	0.568	0.527	0.496	0.452	0.558	11.00
10) C 1,3-butadiene	0.462	0.451	0.449	0.413	0.408	0.395	0.373	0.347	0.412	9.87
11) butane	0.771	0.736	0.737	0.671	0.658	0.621	0.586	0.551	0.666	11.71
12) C acetaldehyde		0.277	0.261	0.222	0.215	0.196	0.177	0.165	0.216	19.27
13) C bromomethane	0.469	0.454	0.442	0.416	0.398	0.370	0.326	0.284	0.395	16.38
14) C chloroethane	0.242	0.235	0.232	0.217	0.215	0.203	0.190	0.179	0.214	10.34
15) ethanol			0.186	0.184	0.169	0.163	0.142	0.121	0.161	15.63
16) dichlorofluoromethane	0.877	0.897	0.779	0.819	0.654	0.614	0.499	0.401	0.693	26.13
17) C vinyl bromide	0.420	0.404	0.406	0.369	0.358	0.346	0.305	0.265	0.359	14.83
18) C acrolein		0.188	0.188	0.176	0.175	0.167	0.161	0.153	0.173	7.67
19) acetone	0.374	0.368	0.363	0.320	0.310	0.298	0.275	0.266	0.322	13.14
20) C acetonitrile	0.359	0.340	0.326	0.303	0.300	0.290	0.280	0.278	0.310	9.54
21) trichlorofluoromethane	0.496	0.482	0.469	0.448	0.434	0.404	0.367	0.337	0.430	13.12
22) isopropyl alcohol	0.634	0.612	0.558	0.533	0.512	0.513	0.469	0.436	0.533	12.55
23) C acrylonitrile	0.396	0.360	0.359	0.338	0.334	0.334	0.307	0.282	0.339	10.23
24) pentane	0.776	0.759	0.725	0.682	0.659	0.631	0.576	0.531	0.667	12.92
25) ethyl ether	0.534	0.484	0.459	0.437	0.429	0.408	0.374	0.354	0.435	13.41
26) C 1,1-dichloroethene	0.874	0.961	0.955	0.882	0.863	0.854	0.666	0.558	0.827	17.11
27) tertiary butyl alcohol		1.298	1.213	1.312	1.265	1.282	1.099	0.941	1.202	11.29
28) C methylene chloride		0.905	0.885	0.801	0.791	0.769	0.734	0.663	0.793	10.55
29) C 3-chloropropene	1.178	1.149	1.149	1.071	1.061	1.058	1.011	0.914	1.074	8.04
30) C carbon disulfide	2.474	2.451	2.429	2.223	2.190	2.170	1.972	1.673	2.198	12.42
31) Freon 113	1.396	1.355	1.350	1.255	1.230	1.174	1.030	0.847	1.205	15.46
32) trans-1,2-dichloroethene	1.211	1.133	1.109	1.034	1.021	1.002	0.904	0.765	1.022	13.64
33) C 1,1-dichloroethane	1.433	1.421	1.421	1.350	1.331	1.284	1.183	1.015	1.305	11.03
34) C MTBE	2.075	2.087	2.070	1.926	1.912	1.891	1.727	1.475	1.895	11.04
35) C vinyl acetate			1.596	1.399	1.443	1.494	1.476	1.360	1.461	5.64
36) C 2-butanone		1.697	1.657	1.690	1.670	1.675	1.581	1.396	1.624	6.62



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Instrument ID : AIRLAB22 **Ical Ref** : ICAL20613
Calibration dates : 11/29/23 22:39 11/30/23 02:24

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37) cis-1,2-dichloroethene	1.057	1.026	1.016	0.964	0.948	0.906	0.822	0.700	0.930	12.83
38) Ethyl Acetate	0.292	0.274	0.283	0.261	0.262	0.253	0.218	0.179	0.253	14.74
39) C chloroform	1.314	1.318	1.302	1.206	1.185	1.113	0.957	0.779	1.147	16.78
40) Tetrahydrofuran	1.137	1.130	1.090	1.034	1.031	1.026	0.964	0.855	1.033	8.95
41) 2,2-dichloropropane	1.071	1.007	1.010	0.971	0.964	0.903	0.765	0.614	0.913	16.58
42) C 1,2-dichloroethane	0.863	0.765	0.736	0.665	0.654	0.611	0.516	0.405	0.652	22.13
43) I 1,4-difluorobenzene	-----ISTD-----									
44) C hexane	0.435	0.413	0.415	0.375	0.363	0.340	0.275	0.214	0.354	21.46
45) diisopropyl ether	0.260	0.256	0.257	0.234	0.233	0.214	0.178	0.140	0.222	19.29
46) tert-butyl ethyl ether	0.757	0.752	0.743	0.699	0.686	0.638	0.536	0.431	0.655	17.78
47) s 1,2-dichloroethane-D4	0.290	0.288	0.293	0.290	0.288	0.279	0.251	0.208	0.273	10.91
48) C 1,1,1-trichloroethane	0.322	0.316	0.315	0.297	0.289	0.269	0.219	0.188	0.277	17.74
49) 1,1-dichloropropene	0.337	0.330	0.331	0.312	0.310	0.295	0.256	0.213	0.298	14.42
50) C benzene	0.850	0.826	0.820	0.769	0.770	0.731	0.651	0.551	0.746	13.53
51) thiophene									0.000	-1.00
52) C carbon tetrachloride	0.291	0.284	0.291	0.270	0.262	0.242	0.194	0.151	0.248	20.51
53) cyclohexane	0.494	0.455	0.453	0.413	0.400	0.386	0.344	0.294	0.405	15.93
54) tert-amyl methyl ether	0.756	0.723	0.721	0.679	0.673	0.640	0.556	0.468	0.652	14.77
55) dibromomethane	0.217	0.213	0.208	0.194	0.187	0.172	0.137	0.106	0.179	22.02
56) C 1,2-dichloropropane	0.280	0.275	0.275	0.259	0.257	0.240	0.201	0.161	0.244	17.30
57) bromodichloromethane	0.378	0.382	0.384	0.348	0.338	0.316	0.248	0.199	0.324	20.87
58) C 1,4-dioxane	0.198	0.186	0.180	0.162	0.168	0.166	0.137	0.106	0.163	17.96
59) C trichloroethene	0.347	0.342	0.339	0.321	0.314	0.292	0.231	0.174	0.295	20.91
60) C 2,2,4-trimethylpentane	1.343	1.333	1.324	1.191	1.163	1.097	0.887	0.689	1.128	20.75
61) methyl methacrylate		0.270	0.271	0.258	0.259	0.247	0.217	0.181	0.243	13.56
62) heptane	0.520	0.513	0.511	0.469	0.459	0.440	0.363	0.292	0.446	18.10
63) C cis-1,3-dichloropropene	0.398	0.401	0.397	0.379	0.378	0.356	0.296	0.240	0.356	16.25
64) C 4-methyl-2-pentanone		0.613	0.600	0.543	0.527	0.486	0.392	0.309	0.496	22.32
65) trans-1,3-dichloropropene	0.327	0.324	0.324	0.303	0.302	0.291	0.253	0.211	0.292	13.98
66) C 1,1,2-trichloroethane	0.300	0.295	0.288	0.276	0.275	0.262	0.225	0.187	0.264	14.71
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	9.358	9.144	9.076	8.643	8.615	8.286	7.466	6.142	8.341	12.81
69) s toluene-D8	1.076	1.067	1.102	1.119	1.160	1.212	1.346	1.458	1.193	11.80
70) 2-methylthiophene									0.000	-1.00
71) 1,3-dichloropropane	4.198	4.094	4.047	3.871	3.894	3.742	3.417	2.924	3.773	11.11
72) 2-hexanone	5.030	5.161	5.267	4.884	4.954	4.944	4.702	4.203	4.893	6.69



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB22	Ical Ref : ICAL20613
Calibration dates : 11/29/23 22:39 11/30/23 02:24	

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73) 3-methylthiophene									0.000	-1.00
74) dibromochloromethane	3.668	3.647	3.589	3.413	3.377	3.327	2.992	2.520	3.317	11.73
75) C 1,2-dibromoethane	3.889	3.927	3.884	3.750	3.760	3.732	3.454	2.996	3.674	8.48
76) butyl acetate		1.136	1.170	1.216	1.260	1.268	1.293	1.205	1.221	4.60
77) octane	3.672	3.751	3.784	3.627	3.563	3.426	2.973	2.469	3.408	13.46
78) C tetrachloroethene	3.579	3.574	3.516	3.409	3.385	3.246	2.850	2.332	3.236	13.46
79) 1,1,1,2-tetrachloroethane	2.954	2.920	2.913	2.759	2.702	2.527	2.123	1.739	2.579	16.91
80) C chlorobenzene	7.159	7.234	7.120	6.830	6.757	6.445	5.565	4.504	6.452	14.79
81) C ethylbenzene	1.095	1.085	1.102	1.059	1.053	1.016	0.902	0.760	1.009	11.84
82) 2-ethylthiophene									0.000	-1.00
83) C m+p-xylene	8.967	9.012	8.981	8.613	8.358	7.652	6.330	4.932	7.856	18.99
84) C bromoform	3.003	3.013	3.028	2.856	2.825	2.738	2.337	1.953	2.719	14.08
85) C styrene	7.180	7.235	7.395	7.395	7.463	7.257	6.635	5.766	7.041	8.18
86) C 1,1,2,2-tetrachloroethane	5.874	5.913	5.919	5.751	5.610	5.155	4.359	3.552	5.266	16.59
87) C o-xylene	8.977	8.941	8.928	8.504	8.186	7.298	5.835	4.695	7.670	21.04
88) 1,2,3-trichloropropane	4.556	4.693	4.614	4.516	4.531	4.411	4.109	3.673	4.388	7.70
89) nonane	6.799	6.855	6.902	6.602	6.461	6.031	5.173	4.391	6.152	14.86
90) s bromofluorobenzene	6.334	6.164	6.444	6.671	6.900	7.041	7.814	8.008	6.922	9.77
91) C isopropylbenzene	1.168	1.169	1.178	1.138	1.119	1.045	0.911	0.760	1.061	14.24
92) bromobenzene	6.408	6.286	6.351	6.130	6.059	5.739	5.007	4.292	5.784	13.05
93) 2-chlorotoluene	3.568	3.474	3.479	3.460	3.438	3.324	2.902	2.370	3.252	12.64
94) n-propylbenzene	4.070	4.115	4.111	4.126	4.107	3.859	3.266	2.631	3.785	14.55
95) 4-chlorotoluene	3.344	3.437	3.458	3.445	3.449	3.323	3.047	2.625	3.266	8.96
96) 4-ethyl toluene	1.252	1.213	1.274	1.228	1.190	1.099	0.998	0.813	1.133	13.91
97) 1,3,5-trimethylbenzene	0.989	1.081	1.025	1.017	0.993	0.947	0.743	0.628	0.928	16.95
98) tert-butylbenzene	1.096	1.101	1.110	1.048	0.992	0.847	0.652	0.530	0.922	24.28
99) 1,2,4-trimethylbenzene	1.047	1.065	1.069	1.029	0.950	0.811	0.623	0.498	0.887	24.93
100) decane	7.859	8.175	8.209	8.131	7.935	7.298	6.250	5.353	7.401	14.27
101) C Benzyl Chloride	4.641	4.817	5.130	5.741	5.952	6.037	5.461	4.800	5.322	10.37
102) 1,3-dichlorobenzene	7.098	7.203	7.211	7.377	7.049	6.407	5.194	4.545	6.511	16.38
103) C 1,4-dichlorobenzene	6.741	7.029	7.055	7.078	6.891	6.146	5.169	3.844	6.244	18.72
104) sec-butylbenzene	1.441	1.491	1.490	1.468	1.421	1.290	1.062	0.868	1.316	17.63
105) 1,2,3-trimethylbenzene	9.624	9.827	9.835	9.215	8.458	7.314	5.650	4.673	8.074	24.79
106) p-isopropyltoluene	1.294	1.334	1.329	1.292	1.189	0.995	0.772	0.620	1.103	25.15
107) 1,2-dichlorobenzene	6.451	6.502	6.657	6.812	6.725	6.134	5.231	4.437	6.119	13.83
108) n-butylbenzene	1.063	1.102	1.108	1.120	1.071	0.953	0.803	0.683	0.988	16.51



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB22	Ical Ref : ICAL20613
Calibration dates : 11/29/23 22:39 11/30/23 02:24	

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109) indan	1.030	1.068	1.076	1.067	1.026	0.938	0.778	0.645	0.954	16.72
110) indene	6.703	6.805	7.088	7.245	7.266	6.831	5.966	5.066	6.621	11.35
111) C 1,2-dibromo-3-chloropr...	2.375	2.419	2.375	2.447	2.296	2.047	1.741	1.598	2.162	15.29
112) undecane	8.191	8.665	8.887	9.249	8.879	7.853	6.546	5.594	7.983	16.07
113) 1,2,4,5-tetramethylben...	1.818	1.902	1.964	1.985	2.065	1.948	1.971	1.971	1.953	3.64
114) dodecane	7.289	8.482	8.953	9.658	8.665	6.882	5.159	4.381	7.434	25.27
115) C 1,2,4-trichlorobenzene	4.622	4.975	5.151	5.883	5.741	4.889	3.929	3.268	4.807	18.20
116) naphthalene	1.145	1.298	1.392	1.458	1.364	1.117	0.853	0.701	1.166	23.16
117) 1,2,3-trichlorobenzene	3.901	4.289	4.554	5.106	4.963	4.358	3.649	3.017	4.229	16.35
118) benzothiophene	1.970	2.353	2.546	2.871	2.621	2.051	1.488	1.190	2.136	27.06
119) C hexachlorobutadiene	4.155	4.585	4.470	4.494	4.069	3.271	2.447	2.023	3.689	26.94
120) 2-methylnaphthalene			2.760	5.762	6.920	5.902	5.744	4.877	5.328	26.58
121) 1-methylnaphthalene			2.786	5.635	6.668	5.879	5.874	5.230	5.345	25.05



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB15	Ical Ref : ICAL20971
Calibration dates : 03/22/24 22:17 03/23/24 03:11	

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoromethane	1.438	1.237	1.083	1.243	1.125	0.870	0.827	0.731	1.069	22.66
3) propylene		0.722	0.627	0.634	0.614	0.448	0.444	0.441	0.561	20.48
4) propane		0.852	0.840	0.980	0.963	0.737	0.714	0.667	0.822	14.84
5) dichlorodifluoromethane	1.117	1.177	1.181	1.407	1.311	0.968	0.900	0.808	1.109	18.49
6) C chloromethane	0.614	0.645	0.644	0.765	0.748	0.556	0.534	0.492	0.625	15.56
7) Freon-114	1.269	1.313	1.333	1.607	1.527	1.142	1.069	0.950	1.276	17.37
8) C methanol			0.561	0.474	0.458	0.339	0.322	0.293	0.408	25.90
9) C vinyl chloride	0.623	0.675	0.689	0.827	0.824	0.619	0.600	0.568	0.678	14.55
10) C 1,3-butadiene	0.536	0.553	0.552	0.693	0.666	0.502	0.488	0.450	0.555	15.23
11) butane	1.150	1.100	1.083	1.278	1.252	0.956	0.918	0.870	1.076	14.03
12) C acetaldehyde		0.425	0.416	0.503	0.483	0.357	0.331	0.284	0.400	20.02
13) C bromomethane	0.454	0.471	0.448	0.583	0.579	0.430	0.415	0.392	0.472	15.22
14) C chloroethane	0.325	0.322	0.315	0.386	0.381	0.286	0.280	0.269	0.320	13.71
15) ethanol			0.691	0.777	0.748	0.572	0.493	0.437	0.620	22.62
16) dichlorofluoromethane	1.544	1.275	1.187	1.328	1.264	0.996	0.908	0.849	1.169	20.11
17) C vinyl bromide	0.386	0.416	0.408	0.517	0.509	0.389	0.378	0.358	0.420	14.30
18) C acrolein		0.323	0.304	0.358	0.353	0.276	0.273	0.261	0.307	12.77
19) acetone	0.789	0.828	0.810	0.964	0.932	0.695	0.653	0.590	0.782	16.70
20) C acetonitrile	0.821	0.681	0.647	0.769	0.760	0.588	0.574	0.545	0.673	15.14
21) trichlorofluoromethane	0.792	0.791	0.799	0.989	0.948	0.683	0.659	0.621	0.785	16.79
22) isopropyl alcohol	1.156	1.119	1.075	1.248	1.218	0.942	0.905	0.834	1.062	14.33
23) C acrylonitrile	0.523	0.557	0.566	0.627	0.628	0.493	0.489	0.461	0.543	11.59
24) pentane	1.243	1.292	1.311	1.543	1.513	1.153	1.109	1.040	1.276	14.18
25) ethyl ether	1.291	1.332	1.305	1.565	1.533	1.157	1.099	0.996	1.285	15.49
26) C 1,1-dichloroethene	0.794	0.855	0.837	1.040	1.036	0.799	0.783	0.760	0.863	12.98
27) tertiary butyl alcohol		1.033	1.007	1.257	1.290	1.044	1.040	1.021	1.099	10.96
28) C methylene chloride		0.790	0.772	0.918	0.916	0.698	0.679	0.649	0.775	14.11
29) C 3-chloropropene	0.805	0.836	0.823	1.015	1.032	0.808	0.804	0.785	0.863	11.58
30) C carbon disulfide	1.363	1.454	1.454	1.872	1.917	1.507	1.508	1.458	1.567	13.23
31) Freon 113	0.883	0.864	0.860	1.042	1.045	0.800	0.801	0.779	0.884	11.84
32) trans-1,2-dichloroethene	0.698	0.762	0.807	1.003	1.012	0.803	0.795	0.782	0.833	13.60
33) C 1,1-dichloroethane	0.970	1.000	1.020	1.249	1.250	0.974	0.952	0.933	1.044	12.44
34) C MTBE	1.265	1.352	1.343	1.695	1.686	1.273	1.231	1.176	1.377	14.61
35) C vinyl acetate	1.227	1.251	1.269	1.540	1.585	1.244	1.252	1.204	1.322	11.40
36) C 2-butanone		1.302	1.350	1.646	1.649	1.265	1.239	1.189	1.377	13.89



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB15	Ical Ref : ICAL20971
Calibration dates : 03/22/24 22:17 03/23/24 03:11	

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37) cis-1,2-dichloroethene	0.714	0.753	0.754	0.955	0.970	0.752	0.740	0.723	0.795	13.14
38) Ethyl Acetate		0.183	0.183	0.241	0.250	0.202	0.209	0.208	0.211	12.31
39) C chloroform	1.036	1.059	1.084	1.328	1.302	0.965	0.919	0.845	1.067	16.06
40) Tetrahydrofuran		0.755	0.762	0.981	0.994	0.772	0.767	0.742	0.825	13.54
41) 2,2-dichloropropane	0.800	0.829	0.825	1.022	1.008	0.748	0.714	0.658	0.825	15.81
42) C 1,2-dichloroethane	0.730	0.731	0.711	0.865	0.842	0.625	0.590	0.567	0.708	15.50
43) I 1,4-difluorobenzene	-----ISTD-----									
44) C hexane	0.470	0.486	0.496	0.631	0.650	0.507	0.522	0.512	0.534	12.67
45) diisopropyl ether	0.221	0.220	0.228	0.290	0.300	0.238	0.245	0.245	0.248	12.26
46) tert-butyl ethyl ether	0.844	0.886	0.893	1.134	1.146	0.883	0.886	0.894	0.946	12.78
47) s 1,2-dichloroethane-D4	0.292	0.293	0.295	0.294	0.289	0.274	0.265	0.265	0.283	4.66
48) C 1,1,1-trichloroethane	0.359	0.371	0.387	0.489	0.486	0.353	0.347	0.339	0.392	15.62
49) 1,1-dichloropropene	0.360	0.383	0.385	0.490	0.489	0.370	0.366	0.360	0.400	13.93
50) C benzene	0.856	0.880	0.883	1.116	1.119	0.846	0.844	0.830	0.922	13.26
51) thiophene	0.488	0.511	0.509	0.664	0.679	0.525	0.534	0.526	0.554	13.29
52) C carbon tetrachloride	0.331	0.346	0.353	0.459	0.456	0.330	0.316	0.298	0.361	17.13
53) cyclohexane	0.520	0.517	0.530	0.658	0.673	0.528	0.539	0.550	0.564	11.24
54) tert-amyl methyl ether	0.664	0.697	0.707	0.905	0.917	0.696	0.701	0.699	0.748	13.55
55) dibromomethane	0.220	0.230	0.236	0.300	0.305	0.240	0.246	0.246	0.253	12.61
56) C 1,2-dichloropropane	0.297	0.309	0.306	0.395	0.400	0.309	0.319	0.330	0.333	12.27
57) bromodichloromethane	0.447	0.465	0.486	0.631	0.633	0.476	0.471	0.451	0.507	15.34
58) C 1,4-dioxane	0.147	0.167	0.175	0.229	0.236	0.190	0.200	0.206	0.194	15.63
59) C trichloroethene	0.273	0.274	0.275	0.357	0.371	0.288	0.298	0.306	0.305	12.54
60) C 2,2,4-trimethylpentane	1.496	1.594	1.619	2.021	2.112	1.590	1.624	1.618	1.709	13.20
61) methyl methacrylate		0.336	0.347	0.480	0.485	0.369	0.373	0.374	0.395	15.61
62) heptane	0.604	0.632	0.651	0.814	0.814	0.614	0.617	0.619	0.671	13.35
63) C cis-1,3-dichloropropene	0.377	0.396	0.415	0.566	0.583	0.433	0.438	0.433	0.455	16.84
64) C 4-methyl-2-pentanone		0.694	0.722	0.959	0.966	0.730	0.732	0.728	0.790	15.01
65) trans-1,3-dichloropropene	0.272	0.314	0.338	0.461	0.473	0.353	0.355	0.349	0.364	18.95
66) C 1,1,2-trichloroethane	0.263	0.276	0.277	0.356	0.362	0.278	0.283	0.292	0.298	12.81
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	4.130	4.244	4.293	5.510	5.541	4.337	4.410	4.331	4.600	12.56
69) s toluene-D8	3.742	3.809	3.770	3.678	3.711	3.906	3.780	3.808	3.775	1.85
70) 2-methylthiophene	2.803	2.900	2.918	3.739	3.747	2.982	3.020	3.004	3.139	12.07
71) 1,3-dichloropropane	2.052	2.323	2.323	2.843	2.806	2.174	2.156	2.090	2.346	13.25
72) 2-hexanone	2.174	2.840	3.011	4.064	4.096	3.203	3.266	3.191	3.231	19.45



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB15	Ical Ref : ICAL20971
Calibration dates : 03/22/24 22:17 03/23/24 03:11	

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73) 3-methylthiophene	2.678	3.044	3.101	4.011	3.999	3.195	3.258	3.249	3.317	13.96
74) dibromochloromethane	1.410	1.562	1.630	2.268	2.294	1.848	1.829	1.766	1.826	17.32
75) C 1,2-dibromoethane	1.724	1.965	1.967	2.561	2.536	1.971	1.970	1.944	2.080	14.47
76) butyl acetate		0.410	0.471	0.668	0.691	0.538	0.552	0.555	0.555	17.92
77) octane	1.637	1.957	1.760	2.203	2.226	1.766	1.805	1.801	1.894	11.39
78) C tetrachloroethene	1.366	1.504	1.476	1.899	1.958	1.510	1.528	1.511	1.594	13.36
79) 1,1,1,2-tetrachloroethane	1.120	1.244	1.280	1.656	1.712	1.387	1.379	1.362	1.393	14.40
80) C chlorobenzene	3.070	3.281	3.138	4.054	4.176	3.261	3.324	3.311	3.452	12.16
81) C ethylbenzene	4.631	5.117	5.170	6.846	6.953	5.588	5.582	5.485	5.671	14.47
82) 2-ethylthiophene	3.050	3.317	3.427	4.409	4.475	3.550	3.497	3.487	3.652	14.03
83) C m+p-xylene	3.858	4.234	4.248	5.671	5.652	4.480	4.484	4.314	4.618	14.57
84) C bromoform	0.928	1.135	1.204	1.798	1.901	1.525	1.579	1.598	1.458	23.17
85) C styrene	2.616	2.921	3.100	4.126	4.233	3.328	3.377	3.360	3.383	16.42
86) C 1,1,2,2-tetrachloroethane	2.876	3.179	3.261	4.349	4.480	3.503	3.532	3.302	3.560	15.90
87) C o-xylene	3.852	4.212	4.312	5.707	5.820	4.534	4.590	4.213	4.655	15.49
88) 1,2,3-trichloropropane	2.423	2.663	2.686	3.443	3.412	2.674	2.660	2.580	2.817	13.70
89) nonane	3.921	4.473	4.508	5.739	5.671	4.483	4.446	4.386	4.703	13.75
90) s bromofluorobenzene	2.448	2.512	2.508	2.587	2.650	2.769	2.710	2.728	2.614	4.51
91) C isopropylbenzene	5.073	5.423	5.426	7.017	6.980	5.485	5.430	5.280	5.764	13.40
92) bromobenzene	3.172	3.486	3.513	4.463	4.453	3.514	3.480	3.375	3.682	13.36
93) 2-chlorotoluene	1.165	1.338	1.379	1.828	1.855	1.526	1.571	1.621	1.535	15.49
94) n-propylbenzene	1.356	1.570	1.642	2.200	2.236	1.830	1.899	1.914	1.831	16.54
95) 4-chlorotoluene	1.215	1.312	1.322	1.789	1.829	1.485	1.532	1.603	1.511	14.82
96) 4-ethyl toluene	4.861	5.523	5.712	7.458	7.524	5.853	5.833	5.806	6.071	15.38
97) 1,3,5-trimethylbenzene	4.468	5.697	4.976	7.253	7.214	5.435	5.582	5.340	5.746	17.33
98) tert-butylbenzene	4.291	5.046	5.177	6.738	6.765	5.298	5.292	4.732	5.417	16.40
99) 1,2,4-trimethylbenzene	4.355	4.807	4.970	6.711	6.633	5.133	5.238	4.940	5.348	16.04
100) decane	3.989	4.579	4.792	6.354	6.395	5.139	5.285	5.163	5.212	15.87
101) C Benzyl Chloride	1.688	2.056	2.340	3.941	4.352	3.642	3.990	4.011	3.253	32.17#
102) 1,3-dichlorobenzene	2.298	2.712	2.808	3.858	3.886	2.995	3.178	3.157	3.112	17.56
103) C 1,4-dichlorobenzene	2.427	2.687	2.822	3.832	3.798	2.940	3.094	3.144	3.093	16.17
104) sec-butylbenzene	6.014	6.972	7.036	9.084	9.039	7.075	7.111	6.835	7.396	14.69
105) 1,2,3-trimethylbenzene	4.940	5.280	5.103	6.411	6.222	4.818	4.737	4.268	5.223	14.15
106) p-isopropyltoluene	6.504	7.277	7.346	9.025	8.679	6.743	6.346	5.543	7.183	16.40
107) 1,2-dichlorobenzene	2.165	2.582	2.624	3.607	3.613	2.807	2.899	2.887	2.898	17.18
108) n-butylbenzene	4.493	5.229	5.474	7.399	7.479	5.880	5.984	5.760	5.962	17.18



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB15	Ical Ref : ICAL20971
Calibration dates : 03/22/24 22:17 03/23/24 03:11	

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109) indan	3.869	4.370	4.513	6.172	6.186	4.863	4.836	4.605	4.927	16.90
110) indene	2.442	2.852	2.983	4.180	4.242	3.334	3.338	3.324	3.337	18.59
111) C 1,2-dibromo-3-chloropr...	1.140	1.284	1.405	1.914	1.967	1.542	1.544	1.491	1.536	18.56
112) undecane	4.048	4.910	5.226	7.156	7.350	5.886	6.090	5.658	5.791	19.08
113) 1,2,4,5-tetramethylben...	0.151	0.203	0.224	0.378	0.383	0.224	0.229	0.225	0.252	32.96#
114) dodecane	2.339	4.286	4.971	6.824	7.614	5.920	6.224	5.732	5.489	29.80
115) C 1,2,4-trichlorobenzene	1.047	1.467	1.723	2.626	2.911	2.207	2.440	2.529	2.119	30.35#
116) naphthalene	3.255	4.528	4.984	7.253	7.890	6.163	6.555	6.440	5.884	25.93
117) 1,2,3-trichlorobenzene	0.917	1.486	1.614	2.259	2.516	1.892	2.205	2.312	1.900	28.06
118) benzothiophene		0.468	0.562	1.213	1.387	0.689	0.762	0.759	0.834	40.63#
119) C hexachlorobutadiene	1.294	1.764	1.791	2.404	2.535	1.878	1.988	1.939	1.949	19.81
120) 2-methylnaphthalene			0.840	2.410	3.295	1.580	2.015	2.140	2.047	40.14#
121) 1-methylnaphthalene			1.540	3.459	4.852	2.383	2.953	3.170	3.060	36.28#



Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Method File : TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023
 Response Via : Initial Calibration

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoro...	0.631	0.729	0.807	0.631	0.728	0.575	0.583	0.653	0.667	12.10
3) propylene	0.593	0.538	0.530	0.498	0.545	0.530	0.541	0.539		5.23
4) propane	0.608	0.500	0.423	0.404	0.381	0.365	0.358	0.434		20.82
5) dichlorodifluo...	0.956	0.956	0.898	0.877	0.765	0.761	0.672	0.559	0.805	17.63
6) C chloromethane	0.485	0.458	0.456	0.427	0.428	0.419	0.413	0.409	0.437	6.06
7) Freon-114	1.406	1.390	1.366	1.249	1.201	1.064	0.907	0.750	1.167	20.67
8) C methanol			0.225	0.180	0.175	0.165	0.154	0.146	0.174	16.08
9) C vinyl chloride	0.618	0.619	0.608	0.577	0.568	0.527	0.496	0.452	0.558	11.00
10) C 1,3-butadiene	0.462	0.451	0.449	0.413	0.408	0.395	0.373	0.347	0.412	9.87
11) butane	0.771	0.736	0.737	0.671	0.658	0.621	0.586	0.551	0.666	11.71
12) C acetaldehyde		0.277	0.261	0.222	0.215	0.196	0.177	0.165	0.216	19.27
13) C bromomethane	0.469	0.454	0.442	0.416	0.398	0.370	0.326	0.284	0.395	16.38
14) C chloroethane	0.242	0.235	0.232	0.217	0.215	0.203	0.190	0.179	0.214	10.34
15) ethanol			0.186	0.184	0.169	0.163	0.142	0.121	0.161	15.63
16) dichlorofluoro...	0.877	0.897	0.779	0.819	0.654	0.614	0.499	0.401	0.693	26.13
17) C vinyl bromide	0.420	0.404	0.406	0.369	0.358	0.346	0.305	0.265	0.359	14.83
18) C acrolein		0.188	0.188	0.176	0.175	0.167	0.161	0.153	0.173	7.67
19) acetone	0.374	0.368	0.363	0.320	0.310	0.298	0.275	0.266	0.322	13.14
20) C acetonitrile	0.359	0.340	0.326	0.303	0.300	0.290	0.280	0.278	0.310	9.54
21) trichlorofluor...	0.496	0.482	0.469	0.448	0.434	0.404	0.367	0.337	0.430	13.12
22) isopropyl alcohol	0.634	0.612	0.558	0.533	0.512	0.513	0.469	0.436	0.533	12.55
23) C acrylonitrile	0.396	0.360	0.359	0.338	0.334	0.334	0.307	0.282	0.339	10.23
24) pentane	0.776	0.759	0.725	0.682	0.659	0.631	0.576	0.531	0.667	12.92
25) ethyl ether	0.534	0.484	0.459	0.437	0.429	0.408	0.374	0.354	0.435	13.41
26) C 1,1-dichloroet...	0.874	0.961	0.955	0.882	0.863	0.854	0.666	0.558	0.827	17.11
27) tertiary butyl...		1.298	1.213	1.312	1.265	1.282	1.099	0.941	1.202	11.29
28) C methylene chlo...		0.905	0.885	0.801	0.791	0.769	0.734	0.663	0.793	10.55
29) C 3-chloropropene	1.178	1.149	1.149	1.071	1.061	1.058	1.011	0.914	1.074	8.04
30) C carbon disulfide	2.474	2.451	2.429	2.223	2.190	2.170	1.972	1.673	2.198	12.42
31) Freon 113	1.396	1.355	1.350	1.255	1.230	1.174	1.030	0.847	1.205	15.46

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Method File : TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023
 Response Via : Initial Calibration

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32) trans-1,2-dich...	1.211	1.133	1.109	1.034	1.021	1.002	0.904	0.765	1.022	13.64
33) C 1,1-dichloroet...	1.433	1.421	1.421	1.350	1.331	1.284	1.183	1.015	1.305	11.03
34) C MTBE	2.075	2.087	2.070	1.926	1.912	1.891	1.727	1.475	1.895	11.04
35) C vinyl acetate		1.596	1.399	1.443	1.494	1.476	1.360	1.461		5.64
36) C 2-butanone	1.697	1.657	1.690	1.670	1.675	1.581	1.396	1.624		6.62
37) cis-1,2-dichlo...	1.057	1.026	1.016	0.964	0.948	0.906	0.822	0.700	0.930	12.83
38) Ethyl Acetate	0.292	0.274	0.283	0.261	0.262	0.253	0.218	0.179	0.253	14.74
39) C chloroform	1.314	1.318	1.302	1.206	1.185	1.113	0.957	0.779	1.147	16.78
40) Tetrahydrofuran	1.137	1.130	1.090	1.034	1.031	1.026	0.964	0.855	1.033	8.95
41) 2,2-dichloropr...	1.071	1.007	1.010	0.971	0.964	0.903	0.765	0.614	0.913	16.58
42) C 1,2-dichloroet...	0.863	0.765	0.736	0.665	0.654	0.611	0.516	0.405	0.652	22.13
43) I 1,4-difluorobenzene	-----ISTD-----									
44) C hexane	0.435	0.413	0.415	0.375	0.363	0.340	0.275	0.214	0.354	21.46
45) diisopropyl ether	0.260	0.256	0.257	0.234	0.233	0.214	0.178	0.140	0.222	19.29
46) tert-butyl eth...	0.757	0.752	0.743	0.699	0.686	0.638	0.536	0.431	0.655	17.78
47) s 1,2-dichloroet...	0.290	0.288	0.293	0.290	0.288	0.279	0.251	0.208	0.273	10.91
48) C 1,1,1-trichlor...	0.322	0.316	0.315	0.297	0.289	0.269	0.219	0.188	0.277	17.74
49) 1,1-dichloropr...	0.337	0.330	0.331	0.312	0.310	0.295	0.256	0.213	0.298	14.42
50) C benzene	0.850	0.826	0.820	0.769	0.770	0.731	0.651	0.551	0.746	13.53
51) thiophene								0.000		-1.00
52) C carbon tetrach...	0.291	0.284	0.291	0.270	0.262	0.242	0.194	0.151	0.248	20.51
53) cyclohexane	0.494	0.455	0.453	0.413	0.400	0.386	0.344	0.294	0.405	15.93
54) tert-amyl meth...	0.756	0.723	0.721	0.679	0.673	0.640	0.556	0.468	0.652	14.77
55) dibromomethane	0.217	0.213	0.208	0.194	0.187	0.172	0.137	0.106	0.179	22.02
56) C 1,2-dichloropr...	0.280	0.275	0.275	0.259	0.257	0.240	0.201	0.161	0.244	17.30
57) bromodichlorom...	0.378	0.382	0.384	0.348	0.338	0.316	0.248	0.199	0.324	20.87
58) C 1,4-dioxane	0.198	0.186	0.180	0.162	0.168	0.166	0.137	0.106	0.163	17.96
59) C trichloroethene	0.347	0.342	0.339	0.321	0.314	0.292	0.231	0.174	0.295	20.91
60) C 2,2,4-trimethy...	1.343	1.333	1.324	1.191	1.163	1.097	0.887	0.689	1.128	20.75
61) methyl methacr...		0.270	0.271	0.258	0.259	0.247	0.217	0.181	0.243	13.56
62) heptane	0.520	0.513	0.511	0.469	0.459	0.440	0.363	0.292	0.446	18.10

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Method File : TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023
 Response Via : Initial Calibration

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C cis-1,3-dichlo...	0.398	0.401	0.397	0.379	0.378	0.356	0.296	0.240	0.356	16.25
64) C 4-methyl-2-pen...		0.613	0.600	0.543	0.527	0.486	0.392	0.309	0.496	22.32
65) trans-1,3-dich...	0.327	0.324	0.324	0.303	0.302	0.291	0.253	0.211	0.292	13.98
66) C 1,1,2-trichlor...	0.300	0.295	0.288	0.276	0.275	0.262	0.225	0.187	0.264	14.71
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	9.358	9.144	9.076	8.643	8.615	8.286	7.466	6.142	8.341	12.81
69) s toluene-D8	1.076	1.067	1.102	1.119	1.160	1.212	1.346	1.458	1.193	11.80
70) 2-methylthiophene									0.000	-1.00
71) 1,3-dichloropr...	4.198	4.094	4.047	3.871	3.894	3.742	3.417	2.924	3.773	11.11
72) 2-hexanone	5.030	5.161	5.267	4.884	4.954	4.944	4.702	4.203	4.893	6.69
73) 3-methylthiophene									0.000	-1.00
74) dibromochlorom...	3.668	3.647	3.589	3.413	3.377	3.327	2.992	2.520	3.317	11.73
75) C 1,2-dibromoethane	3.889	3.927	3.884	3.750	3.760	3.732	3.454	2.996	3.674	8.48
76) butyl acetate		1.136	1.170	1.216	1.260	1.268	1.293	1.205	1.221	4.60
77) octane	3.672	3.751	3.784	3.627	3.563	3.426	2.973	2.469	3.408	13.46
78) C tetrachloroethene	3.579	3.574	3.516	3.409	3.385	3.246	2.850	2.332	3.236	13.46
79) 1,1,1,2-tetrac...	2.954	2.920	2.913	2.759	2.702	2.527	2.123	1.739	2.579	16.91
80) C chlorobenzene	7.159	7.234	7.120	6.830	6.757	6.445	5.565	4.504	6.452	14.79
81) C ethylbenzene	1.095	1.085	1.102	1.059	1.053	1.016	0.902	0.760	1.009	11.84
82) 2-ethylthiophene									0.000	-1.00
83) C m+p-xylene	8.967	9.012	8.981	8.613	8.358	7.652	6.330	4.932	7.856	18.99
84) C bromoform	3.003	3.013	3.028	2.856	2.825	2.738	2.337	1.953	2.719	14.08
85) C styrene	7.180	7.235	7.395	7.395	7.463	7.257	6.635	5.766	7.041	8.18
86) C 1,1,2,2-tetrac...	5.874	5.913	5.919	5.751	5.610	5.155	4.359	3.552	5.266	16.59
87) C o-xylene	8.977	8.941	8.928	8.504	8.186	7.298	5.835	4.695	7.670	21.04
88) 1,2,3-trichlor...	4.556	4.693	4.614	4.516	4.531	4.411	4.109	3.673	4.388	7.70
89) nonane	6.799	6.855	6.902	6.602	6.461	6.031	5.173	4.391	6.152	14.86
90) s bromofluoroben...	6.334	6.164	6.444	6.671	6.900	7.041	7.814	8.008	6.922	9.77
91) C isopropylbenzene	1.168	1.169	1.178	1.138	1.119	1.045	0.911	0.760	1.061	14.24
92) bromobenzene	6.408	6.286	6.351	6.130	6.059	5.739	5.007	4.292	5.784	13.05
93) 2-chlorotoluene	3.568	3.474	3.479	3.460	3.438	3.324	2.902	2.370	3.252	12.64

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Method File : TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023
 Response Via : Initial Calibration

Calibration Files

0.2 =r221890.D 0.5 =r221891.D 1.0 =r221892.D 5.0 =r221893.D 10 =r221894.D 20 =r221895.D
 50 =r221896.D 100 =r221897.D

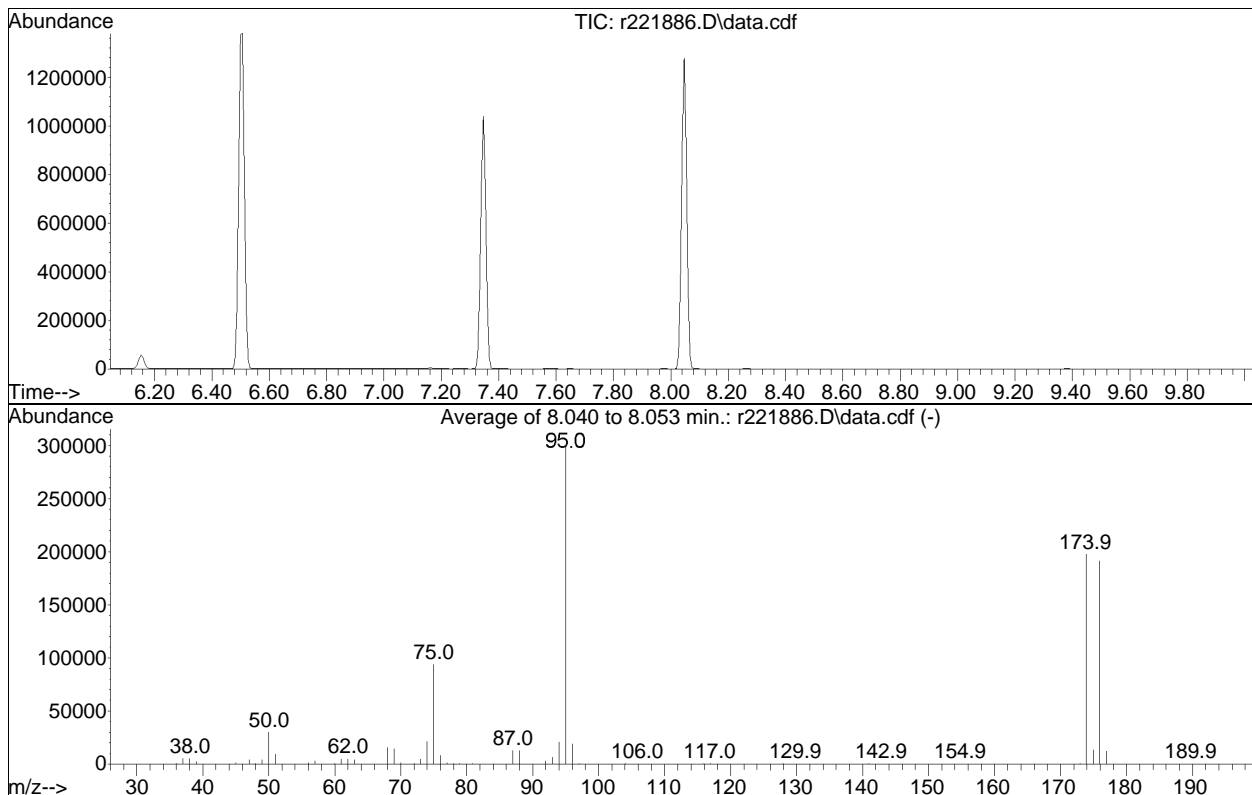
Compound		0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)	n-propylbenzene	4.070	4.115	4.111	4.126	4.107	3.859	3.266	2.631	3.785	14.55
95)	4-chlorotoluene	3.344	3.437	3.458	3.445	3.449	3.323	3.047	2.625	3.266	8.96
96)	4-ethyl toluene	1.252	1.213	1.274	1.228	1.190	1.099	0.998	0.813	1.133	13.91
97)	1,3,5-trimethy...	0.989	1.081	1.025	1.017	0.993	0.947	0.743	0.628	0.928	16.95
98)	tert-butylbenzene	1.096	1.101	1.110	1.048	0.992	0.847	0.652	0.530	0.922	24.28
99)	1,2,4-trimethy...	1.047	1.065	1.069	1.029	0.950	0.811	0.623	0.498	0.887	24.93
100)	decane	7.859	8.175	8.209	8.131	7.935	7.298	6.250	5.353	7.401	14.27
101) C	Benzyl Chloride	4.641	4.817	5.130	5.741	5.952	6.037	5.461	4.800	5.322	10.37
102)	1,3-dichlorobe...	7.098	7.203	7.211	7.377	7.049	6.407	5.194	4.545	6.511	16.38
103) C	1,4-dichlorobe...	6.741	7.029	7.055	7.078	6.891	6.146	5.169	3.844	6.244	18.72
104)	sec-butylbenzene	1.441	1.491	1.490	1.468	1.421	1.290	1.062	0.868	1.316	17.63
105)	1,2,3-trimethy...	9.624	9.827	9.835	9.215	8.458	7.314	5.650	4.673	8.074	24.79
106)	p-isopropyltol...	1.294	1.334	1.329	1.292	1.189	0.995	0.772	0.620	1.103	25.15
107)	1,2-dichlorobe...	6.451	6.502	6.657	6.812	6.725	6.134	5.231	4.437	6.119	13.83
108)	n-butylbenzene	1.063	1.102	1.108	1.120	1.071	0.953	0.803	0.683	0.988	16.51
109)	indan	1.030	1.068	1.076	1.067	1.026	0.938	0.778	0.645	0.954	16.72
110)	indene	6.703	6.805	7.088	7.245	7.266	6.831	5.966	5.066	6.621	11.35
111) C	1,2-dibromo-3-...	2.375	2.419	2.375	2.447	2.296	2.047	1.741	1.598	2.162	15.29
112)	undecane	8.191	8.665	8.887	9.249	8.879	7.853	6.546	5.594	7.983	16.07
113)	1,2,4,5-tetram...	1.818	1.902	1.964	1.985	2.065	1.948	1.971	1.971	1.953	3.64
114)	dodecane	7.289	8.482	8.953	9.658	8.665	6.882	5.159	4.381	7.434	25.27
115) C	1,2,4-trichlor...	4.622	4.975	5.151	5.883	5.741	4.889	3.929	3.268	4.807	18.20
116)	naphthalene	1.145	1.298	1.392	1.458	1.364	1.117	0.853	0.701	1.166	23.16
117)	1,2,3-trichlor...	3.901	4.289	4.554	5.106	4.963	4.358	3.649	3.017	4.229	16.35
118)	benzothiophene	1.970	2.353	2.546	2.871	2.621	2.051	1.488	1.190	2.136	27.06
119) C	hexachlorobuta...	4.155	4.585	4.470	4.494	4.069	3.271	2.447	2.023	3.689	26.94
120)	2-methylnaphth...		2.760	5.762	6.920	5.902	5.744	4.877	5.328	26.58	
121)	1-methylnaphth...		2.786	5.635	6.668	5.879	5.874	5.230	5.345	25.05	

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221886.D
 Acq On : 29 Nov 2023 8:41 PM
 Operator : AIRLAB22:RAY
 Sample : WG1858542-1,3,250,250
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023



Spectrum Information: Average of 8.040 to 8.053 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	9.9	29873	PASS
75	95	30	66	31.2	93793	PASS
95	95	100	100	100.0	300807	PASS
96	95	5	9	6.4	19360	PASS
173	174	0.00	2	0.4	812	PASS
174	95	50	120	65.7	197760	PASS
175	174	4	9	6.9	13567	PASS
176	174	93	101	96.6	191127	PASS
177	176	5	9	6.5	12433	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221890.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	189658	10.000	ppbV	0.01
Standard Area = 192875			Recovery =	98.33%		
43) 1,4-difluorobenzene	5.377	114	652716	10.000	ppbV	0.01
Standard Area = 676282			Recovery =	96.52%		
67) chlorobenzene-D5	7.347	54	71294	10.000	ppbV	0.00
Standard Area = 69834			Recovery =	102.09%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	189189	11.097	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	110.97%		
69) toluene-D8	6.500	98	767278	9.632	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.32%		
90) bromofluorobenzene	8.047	95	451544	9.534	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.34%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.135	51	2392M6	0.160	ppbV	
3) propylene	2.155	41	2344M6	0.169	ppbV	
4) propane	2.170	29	2892	0.325	ppbV #	73
5) dichlorodifluoromethane	2.195	85	3625	0.214	ppbV	94
6) chloromethane	2.300	50	1839	0.215	ppbV	96
7) Freon-114	2.360	85	5335	0.223	ppbV	98
8) methanol	2.390	31	4865	1.373	ppbV #	1
9) vinyl chloride	2.435	62	2345	0.190	ppbV	90
10) 1,3-butadiene	2.505	54	1752	0.201	ppbV #	78
11) butane	2.530	43	2923	0.176	ppbV #	96
12) acetaldehyde	2.375	29	5778	1.230	ppbV #	82
13) bromomethane	2.630	94	1778	0.216	ppbV	98
14) chloroethane	2.705	64	918	0.180	ppbV	92
15) ethanol	2.750	31	5445	1.350	ppbV	92
16) dichlorofluoromethane	2.745	67	3326	0.198	ppbV #	95
17) vinyl bromide	2.863	106	1592	0.205	ppbV	94
18) acrolein	2.911	56	723	0.199	ppbV #	1
19) acetone	2.974	43	7088	0.813	ppbV #	84
20) acetonitrile	2.851	41	1362	0.164	ppbV #	1
21) trichlorofluoromethane	3.055	101	1882	0.189	ppbV	95
22) isopropyl alcohol	3.085	45	6008	0.436	ppbV #	97
23) acrylonitrile	3.187	53	1503	0.213	ppbV	93
24) pentane	3.223	43	2944	0.165	ppbV #	90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221890.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.232	31	2024	0.208	ppbV	95
26) 1,1-dichloroethene	3.355	61	3315	0.184	ppbV	92
27) tertiary butyl alcohol	3.380	59	4895	0.199	ppbV #	94
28) methylene chloride	3.415	49	3822	0.248	ppbV	85
29) 3-chloropropene	3.470	41	4469	0.191	ppbV	97
30) carbon disulfide	3.560	76	9383	0.217	ppbV #	78
31) Freon 113	3.540	101	5297	0.219	ppbV	97
32) trans-1,2-dichloroethene	3.863	61	4593	0.214	ppbV	97
33) 1,1-dichloroethane	3.963	63	5434	0.202	ppbV	97
34) MTBE	3.997	73	7869	0.209	ppbV	98
35) vinyl acetate	4.037	43	5977	0.221	ppbV	99
36) 2-butanone	4.157	43	6442	0.202	ppbV	98
37) cis-1,2-dichloroethene	4.370	61	4008	0.203	ppbV	98
38) Ethyl Acetate	4.477	61	1108	0.210	ppbV	93
39) chloroform	4.510	83	4984	0.210	ppbV #	96
40) Tetrahydrofuran	4.710	42	4312	0.192	ppbV	96
41) 2,2-dichloropropane	4.523	77	4064	0.227	ppbV	95
42) 1,2-dichloroethane	4.870	62	3272	0.243	ppbV	99
44) hexane	4.470	57	5679	0.227	ppbV	88
45) diisopropyl ether	4.470	87	3400	0.232	ppbV	79
46) tert-butyl ethyl ether	4.730	59	9879	0.224	ppbV	97
48) 1,1,1-trichloroethane	4.990	97	4198	0.254	ppbV	97
49) 1,1-dichloropropene	5.143	75	4403	0.231	ppbV	95
50) benzene	5.210	78	11095	0.227	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	3805	0.247	ppbV	99
53) cyclohexane	5.343	56	6449	0.228	ppbV	100
54) tert-amyl methyl ether	5.497	73	9870	0.250	ppbV	98
55) dibromomethane	5.583	93	2832	0.252	ppbV	97
56) 1,2-dichloropropane	5.597	63	3656	0.229	ppbV	98
57) bromodichloromethane	5.690	83	4937	0.239	ppbV	96
58) 1,4-dioxane	5.717	88	2584	0.244	ppbV #	81
59) trichloroethene	5.710	130	4532	0.240	ppbV	98
60) 2,2,4-trimethylpentane	5.723	57	17538	0.230	ppbV	99
61) methyl methacrylate	5.797	41	3690	0.229	ppbV	92
62) heptane	5.843	43	6791	0.225	ppbV	99
63) cis-1,3-dichloropropene	6.107	75	5190	0.242	ppbV	94
64) 4-methyl-2-pentanone	6.127	43	8784	0.272	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	4273	0.250	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	3910	0.245	ppbV	91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221890.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
68) toluene	6.547	91	13344	0.221	ppbV		96
70) 2-methylthiophene	0.000		0	N.D.	d		
71) 1,3-dichloropropane	6.560	76	5986	0.237	ppbV #		93
72) 2-hexanone	6.667	43	7172	0.208	ppbV		96
73) 3-methylthiophene	0.000		0	N.D.	d		
74) dibromochloromethane	6.740	129	5230	0.236	ppbV		99
75) 1,2-dibromoethane	6.853	107	5545	0.223	ppbV		99
76) butyl acetate	6.947	73	1620	0.212	ppbV		92
77) octane	6.987	85	5236	0.209	ppbV		94
78) tetrachloroethene	7.060	166	5103	0.213	ppbV #		92
79) 1,1,1,2-tetrachloroethane	7.360	131	4212	0.238	ppbV		96
80) chlorobenzene	7.367	112	10208	0.221	ppbV		96
81) ethylbenzene	7.533	91	15612	0.215	ppbV		99
82) 2-ethylthiophene	0.000		0	N.D.	d		
83) m+p-xylene	7.613	91	25572	0.450	ppbV		98
84) bromoform	7.653	173	4282	0.228	ppbV		99
85) styrene	7.780	104	10238	0.208	ppbV		99
86) 1,1,2,2-tetrachloroethane	7.827	83	8375	0.223	ppbV		99
87) o-xylene	7.833	91	12800	0.232	ppbV		99
88) 1,2,3-trichloropropane	7.893	75	6497	0.228	ppbV		97
89) nonane	7.927	43	9695	0.216	ppbV		95
91) isopropylbenzene	8.107	105	16660	0.226	ppbV		96
92) bromobenzene	8.160	77	9137	0.233	ppbV		88
93) 2-chlorotoluene	8.347	126	5088M3	0.218	ppbV		
94) n-propylbenzene	8.360	120	5803	0.213	ppbV		87
95) 4-chlorotoluene	8.380	126	4768	0.211	ppbV		96
96) 4-ethyl toluene	8.433	105	17846	0.231	ppbV		96
97) 1,3,5-trimethylbenzene	8.467	105	14096	0.213	ppbV		93
98) tert-butylbenzene	8.677	119	15625	0.230	ppbV		98
99) 1,2,4-trimethylbenzene	8.677	105	14935	0.241	ppbV		93
100) decane	8.723	57	11206	0.206	ppbV		97
101) Benzyl Chloride	8.750	91	6617	0.180	ppbV		99
102) 1,3-dichlorobenzene	8.763	146	10121	0.223	ppbV #		96
103) 1,4-dichlorobenzene	8.797	146	9612M3	0.226	ppbV		
104) sec-butylbenzene	8.817	105	20546	0.226	ppbV		98
105) 1,2,3-trimethylbenzene	8.897	105	13722	0.244	ppbV		92
106) p-isopropyltoluene	8.897	119	18457	0.228	ppbV		98
107) 1,2-dichlorobenzene	8.970	146	9198	0.217	ppbV		99
108) n-butylbenzene	9.110	91	15163	0.218	ppbV		97
109) indan	9.003	117	14691	0.214	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221890.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:51 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

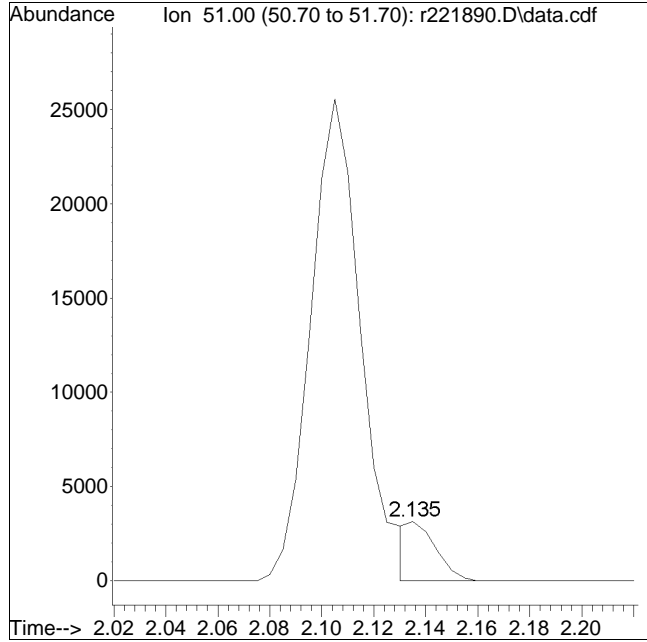
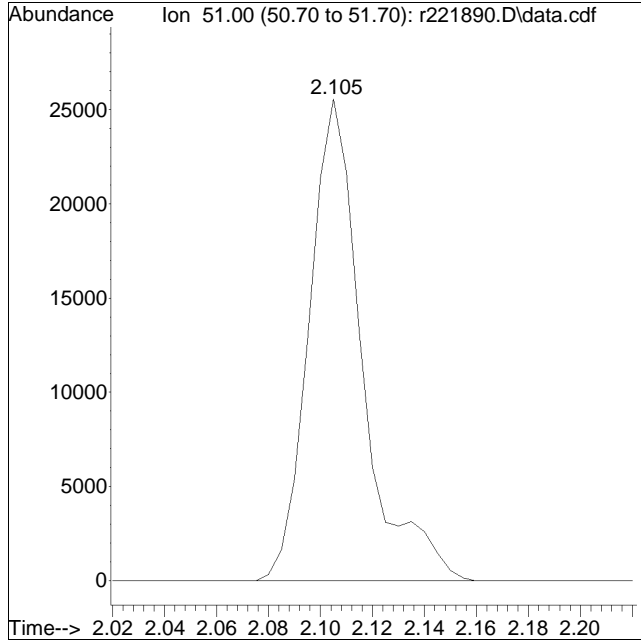
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
110) indene	9.050	115	9558	0.202	ppbV		97
111) 1,2-dibromo-3-chloropr...	9.203	75	3386	0.242	ppbV #		76
112) undecane	9.370	57	11680	0.198	ppbV		96
113) 1,2,4,5-tetramethylben...	9.503	119	2592	0.189	ppbV #		97
114) dodecane	9.918	57	10393	0.184	ppbV		96
115) 1,2,4-trichlorobenzene	9.857	180	6591	0.180	ppbV		92
116) naphthalene	9.918	128	16327	0.181	ppbV #		94
117) 1,2,3-trichlorobenzene	10.053	180	5562	0.174	ppbV		94
118) benzothiophene	9.955	134	28094	0.179	ppbV		99
119) hexachlorobutadiene	10.098	225	5924	0.204	ppbV #		92
120) 2-methylnaphthalene	10.473	142	303	0.008	ppbV #		83
121) 1-methylnaphthalene	10.563	142	311	0.008	ppbV #		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 36524

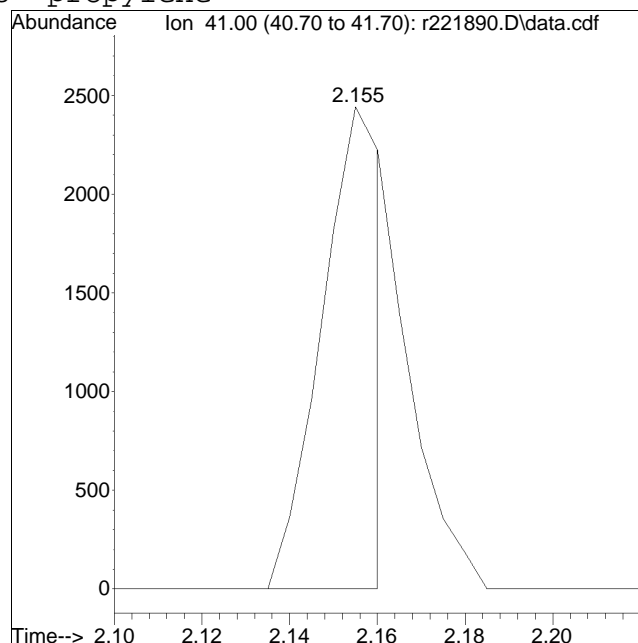
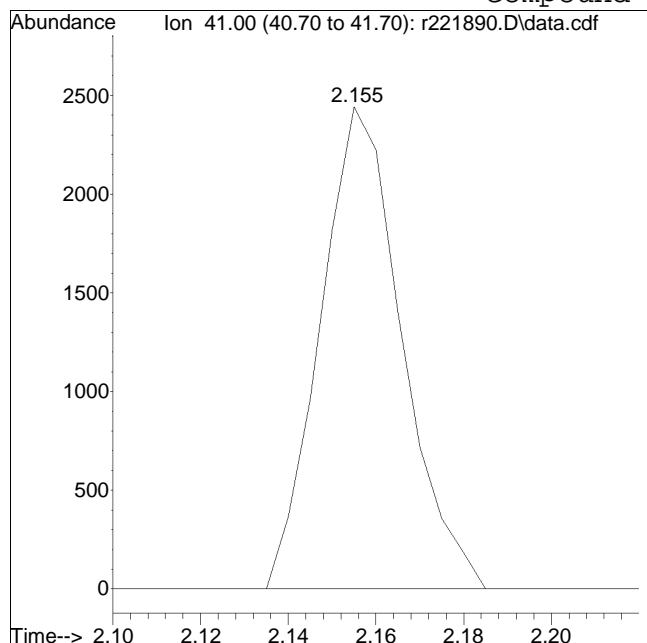
Manual Peak Response = 2392 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #3: propylene



Original Peak Response = 3141

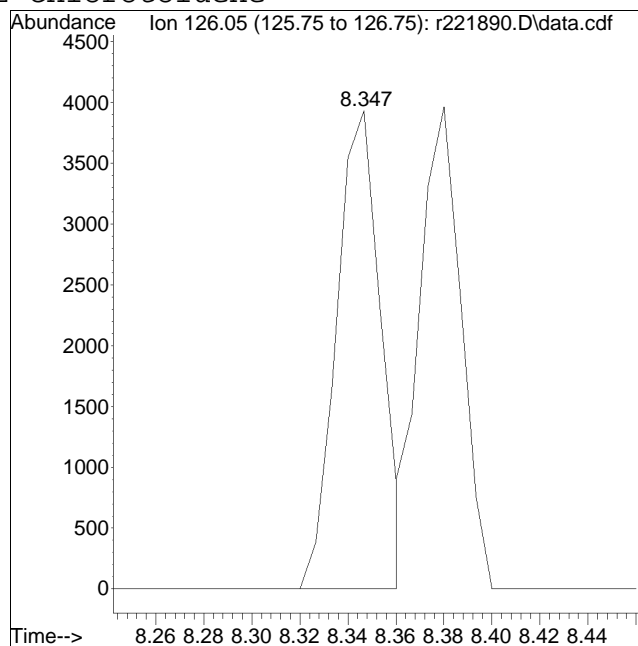
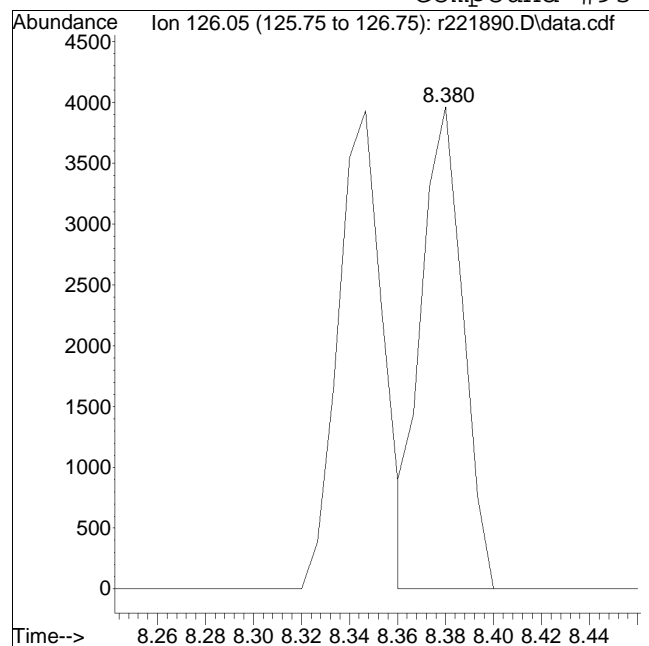
Manual Peak Response = 2344 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 4768

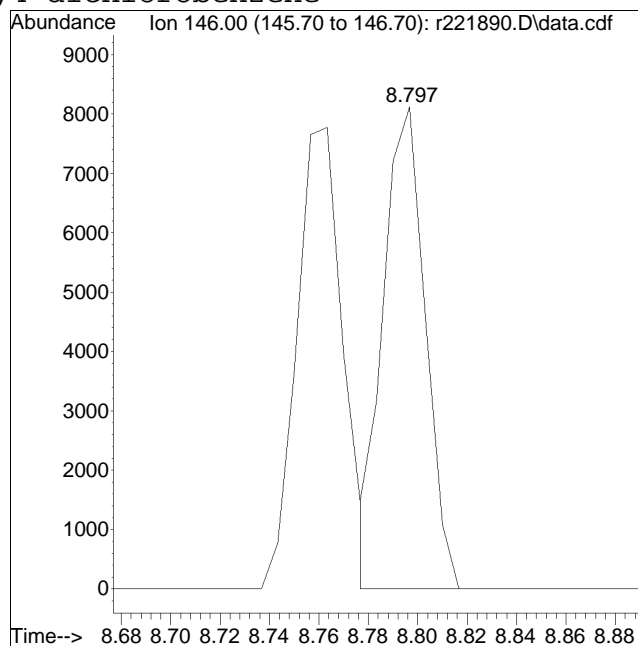
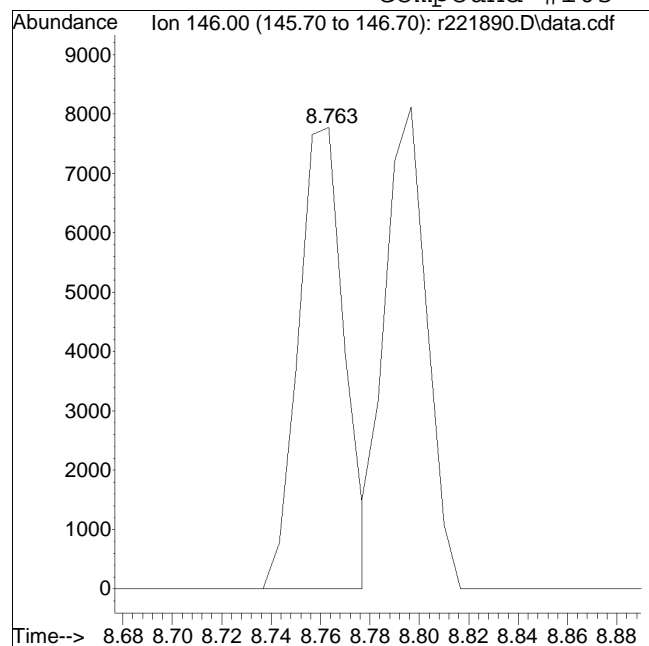
Manual Peak Response = 5088 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221890.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:36 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 10121

Manual Peak Response = 9612 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221891.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188670	10.000	ppbV	0.01
Standard Area = 192875			Recovery =		97.82%	
43) 1,4-difluorobenzene	5.377	114	654198	10.000	ppbV	0.01
Standard Area = 676282			Recovery =		96.73%	
67) chlorobenzene-D5	7.347	54	70758	10.000	ppbV	0.00
Standard Area = 69834			Recovery =		101.32%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	188528	11.034	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =		110.34%	
69) toluene-D8	6.500	98	754778	9.547	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.47%	
90) bromofluorobenzene	8.047	95	436125	9.278	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		92.78%	
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.135	51	6874M6	0.463	ppbV	
3) propylene	2.160	41	5591M6	0.404	ppbV	
4) propane	2.170	29	5737	0.647	ppbV #	87
5) dichlorodifluoromethane	2.200	85	9017	0.535	ppbV	98
6) chloromethane	2.305	50	4317	0.506	ppbV	98
7) Freon-114	2.365	85	13115	0.550	ppbV	97
8) methanol	2.390	31	11317	3.210	ppbV #	24
9) vinyl chloride	2.435	62	5840	0.477	ppbV	94
10) 1,3-butadiene	2.505	54	4257	0.491	ppbV #	80
11) butane	2.530	43	6945	0.421	ppbV	95
12) acetaldehyde	2.375	29	13061	2.795	ppbV	94
13) bromomethane	2.630	94	4283	0.524	ppbV	97
14) chloroethane	2.705	64	2215	0.436	ppbV	98
15) ethanol	2.750	31	10956	2.731	ppbV	90
16) dichlorofluoromethane	2.745	67	8466	0.508	ppbV	98
17) vinyl bromide	2.863	106	3809	0.492	ppbV	95
18) acrolein	2.911	56	1773	0.490	ppbV #	1
19) acetone	2.971	43	17347	2.000	ppbV #	86
20) acetonitrile	2.848	41	3212	0.389	ppbV #	7
21) trichlorofluoromethane	3.055	101	4546	0.458	ppbV	99
22) isopropyl alcohol	3.082	45	14445	1.054	ppbV	99
23) acrylonitrile	3.187	53	3393	0.483	ppbV	97
24) pentane	3.220	43	7157	0.403	ppbV #	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221891.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.229	31	4564	0.471	ppbV	95
26) 1,1-dichloroethene	3.355	61	9070	0.506	ppbV	97
27) tertiary butyl alcohol	3.380	59	12248	0.501	ppbV	96
28) methylene chloride	3.410	49	8534	0.557	ppbV	95
29) 3-chloropropene	3.470	41	10841	0.465	ppbV	98
30) carbon disulfide	3.555	76	23119	0.538	ppbV #	92
31) Freon 113	3.540	101	12781	0.531	ppbV	98
32) trans-1,2-dichloroethene	3.863	61	10688	0.501	ppbV	96
33) 1,1-dichloroethane	3.963	63	13406	0.501	ppbV	96
34) MTBE	3.997	73	19691	0.525	ppbV	98
35) vinyl acetate	4.030	43	14581	0.542	ppbV	98
36) 2-butanone	4.157	43	16007	0.505	ppbV	99
37) cis-1,2-dichloroethene	4.370	61	9680	0.493	ppbV	98
38) Ethyl Acetate	4.477	61	2587	0.494	ppbV	86
39) chloroform	4.510	83	12432	0.525	ppbV	98
40) Tetrahydrofuran	4.710	42	10662	0.478	ppbV	97
41) 2,2-dichloropropane	4.523	77	9495	0.534	ppbV	97
42) 1,2-dichloroethane	4.863	62	7218	0.539	ppbV	97
44) hexane	4.470	57	13510	0.538	ppbV	97
45) diisopropyl ether	4.470	87	8386	0.571	ppbV	78
46) tert-butyl ethyl ether	4.730	59	24586	0.557	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	10324	0.623	ppbV	97
49) 1,1-dichloropropene	5.143	75	10802	0.565	ppbV	92
50) benzene	5.210	78	27024	0.552	ppbV	98
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	9287	0.600	ppbV	98
53) cyclohexane	5.343	56	14877	0.526	ppbV	99
54) tert-amyl methyl ether	5.490	73	23656	0.599	ppbV	98
55) dibromomethane	5.583	93	6976	0.618	ppbV	93
56) 1,2-dichloropropane	5.597	63	8998	0.563	ppbV	99
57) bromodichloromethane	5.690	83	12492	0.602	ppbV	99
58) 1,4-dioxane	5.710	88	6086	0.574	ppbV	89
59) trichloroethene	5.710	130	11180	0.592	ppbV	97
60) 2,2,4-trimethylpentane	5.723	57	43611	0.569	ppbV	99
61) methyl methacrylate	5.797	41	8848	0.548	ppbV	93
62) heptane	5.843	43	16786	0.555	ppbV	97
63) cis-1,3-dichloropropene	6.100	75	13110	0.611	ppbV	92
64) 4-methyl-2-pentanone	6.120	43	20062	0.620	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	10604	0.619	ppbV	94
66) 1,1,2-trichloroethane	6.420	97	9661	0.603	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221891.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	32352	0.540	ppbV	98
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	14483	0.579	ppbV	95
72) 2-hexanone	6.667	43	18260	0.535	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	12901	0.587	ppbV	99
75) 1,2-dibromoethane	6.853	107	13895	0.564	ppbV	99
76) butyl acetate	6.947	73	4020	0.530	ppbV	93
77) octane	6.987	85	13272	0.534	ppbV	97
78) tetrachloroethene	7.060	166	12643	0.532	ppbV	95
79) 1,1,1,2-tetrachloroethane	7.360	131	10329	0.588	ppbV	98
80) chlorobenzene	7.367	112	25592	0.560	ppbV	97
81) ethylbenzene	7.533	91	38390	0.532	ppbV	98
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	63766	1.131	ppbV	99
84) bromoform	7.653	173	10660	0.571	ppbV	97
85) styrene	7.780	104	25598	0.523	ppbV	98
86) 1,1,2,2-tetrachloroethane	7.827	83	20920	0.562	ppbV	99
87) o-xylene	7.833	91	31632	0.578	ppbV	99
88) 1,2,3-trichloropropane	7.893	75	16604	0.587	ppbV	93
89) nonane	7.927	43	24254	0.543	ppbV	96
91) isopropylbenzene	8.107	105	41373	0.565	ppbV	95
92) bromobenzene	8.160	77	22240	0.571	ppbV	86
93) 2-chlorotoluene	8.347	126	12289M3	0.532	ppbV	
94) n-propylbenzene	8.360	120	14558	0.538	ppbV	89
95) 4-chlorotoluene	8.380	126	12161	0.543	ppbV	93
96) 4-ethyl toluene	8.433	105	42917	0.560	ppbV	95
97) 1,3,5-trimethylbenzene	8.467	105	38258	0.583	ppbV	93
98) tert-butylbenzene	8.677	119	38953	0.578	ppbV	99
99) 1,2,4-trimethylbenzene	8.677	105	37690	0.612	ppbV	95
100) decane	8.723	57	28923	0.534	ppbV	97
101) Benzyl Chloride	8.750	91	17043	0.466	ppbV	98
102) 1,3-dichlorobenzene	8.757	146	25485	0.566	ppbV	98
103) 1,4-dichlorobenzene	8.797	146	24867	0.590	ppbV	96
104) sec-butylbenzene	8.817	105	52745	0.584	ppbV	97
105) 1,2,3-trimethylbenzene	8.897	105	34767	0.623	ppbV	94
106) p-isopropyltoluene	8.897	119	47200	0.588	ppbV	97
107) 1,2-dichlorobenzene	8.970	146	23005	0.548	ppbV	97
108) n-butylbenzene	9.110	91	38988	0.564	ppbV	97
109) indan	9.003	117	37787	0.555	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221891.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:36:59 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

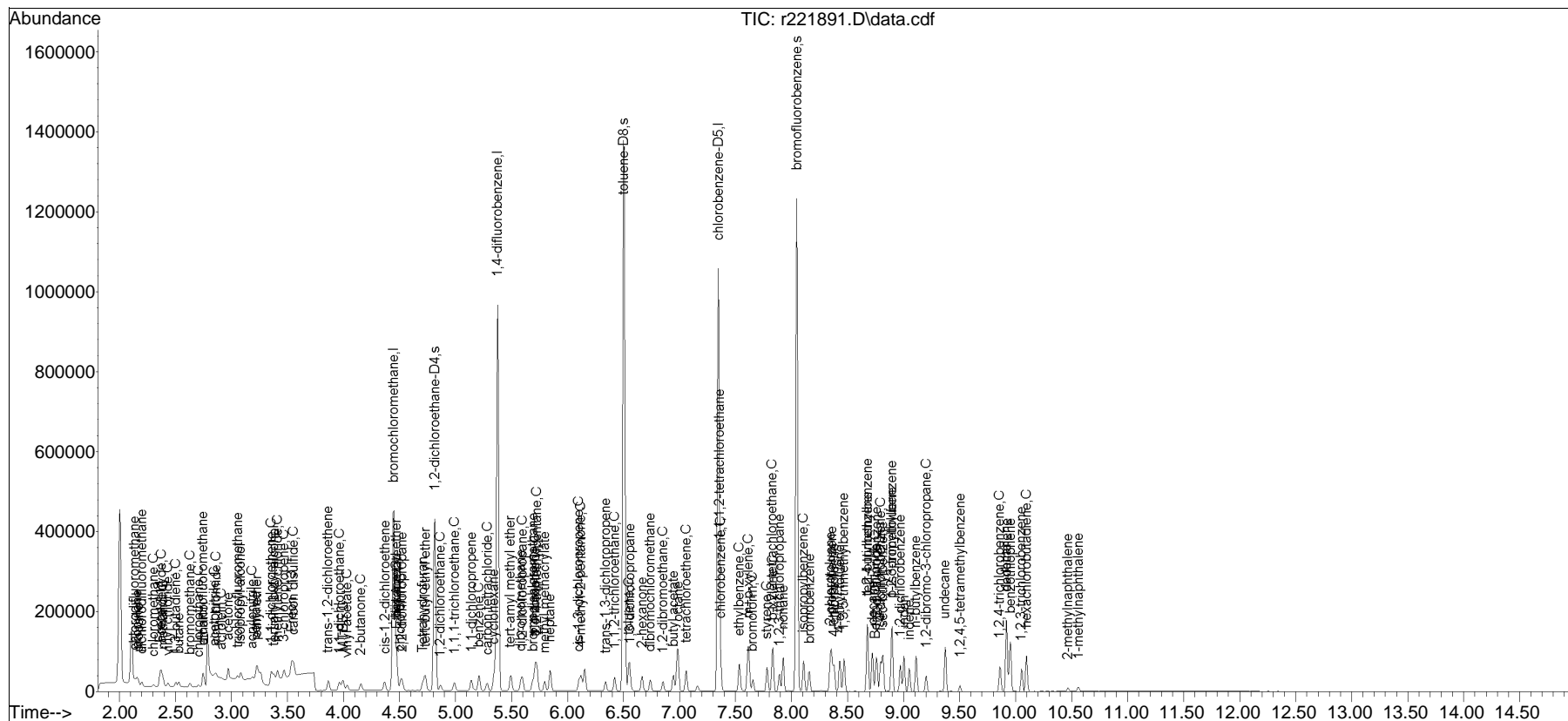
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	24076	0.514	ppbV	98
111) 1,2-dibromo-3-chloropr...	9.203	75	8558	0.616	ppbV #	77
112) undecane	9.370	57	30655	0.522	ppbV	96
113) 1,2,4,5-tetramethylben...	9.503	119	6728	0.494	ppbV	100
114) dodecane	9.918	57	30009	0.535	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	17600	0.484	ppbV	94
116) naphthalene	9.918	128	45930	0.514	ppbV #	95
117) 1,2,3-trichlorobenzene	10.053	180	15174	0.477	ppbV #	93
118) benzothiophene	9.955	134	83262	0.534	ppbV	99
119) hexachlorobutadiene	10.098	225	16220	0.564	ppbV #	90
120) 2-methylnaphthalene	10.465	142	4683	0.122	ppbV	98
121) 1-methylnaphthalene	10.563	142	5298	0.138	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221891.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

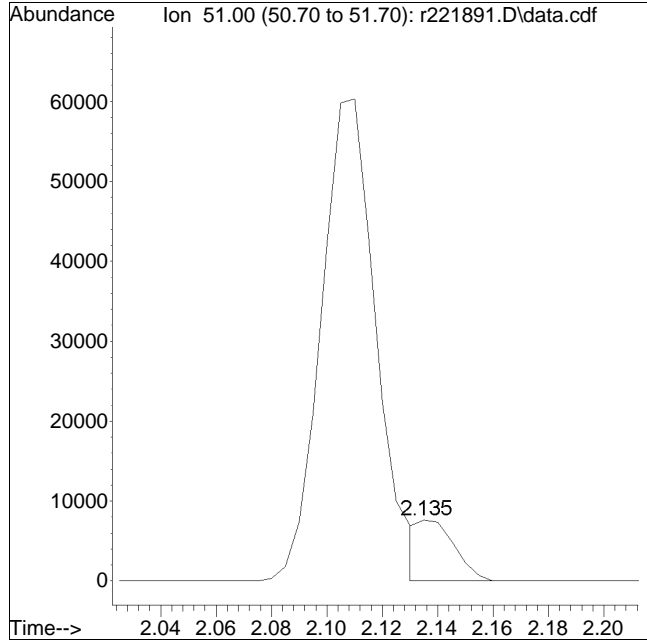
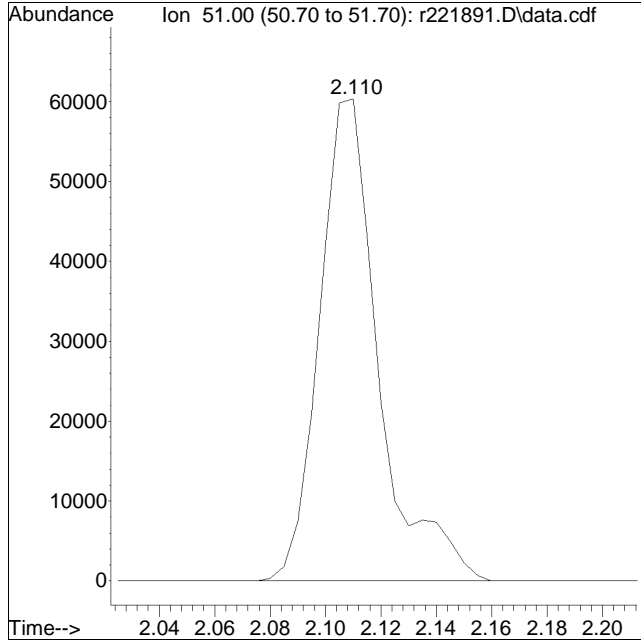
Quant Time: Nov 30 12:36:59 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221891.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:36 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 89460

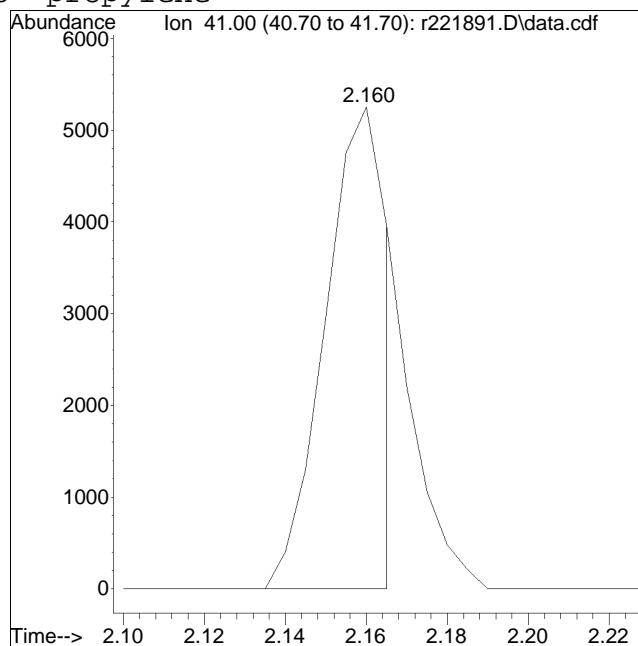
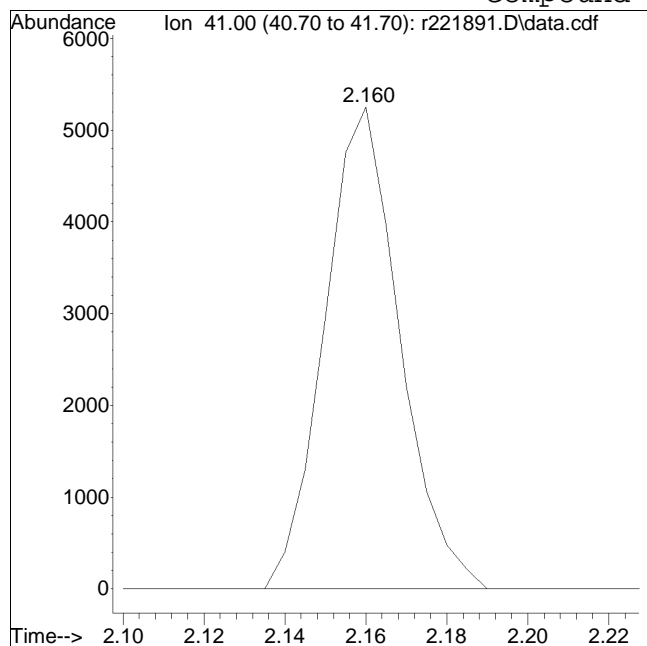
Manual Peak Response = 6874 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221891.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:36 pm

Compound #3: propylene



Original Peak Response = 6778

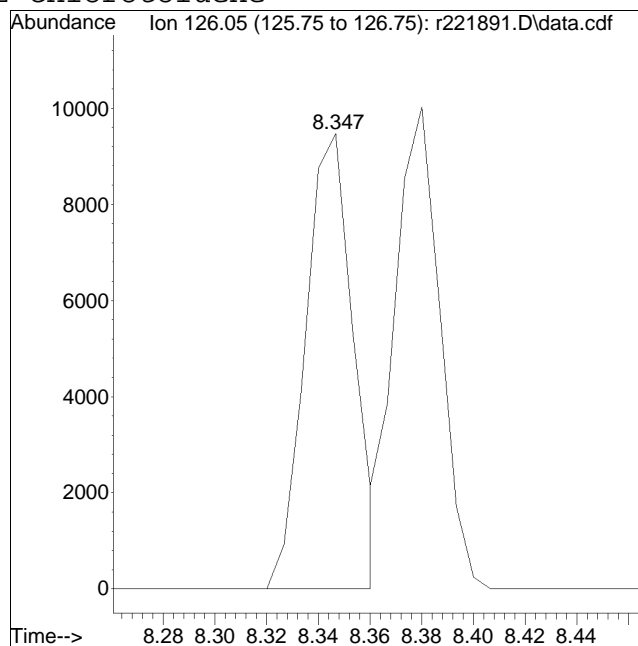
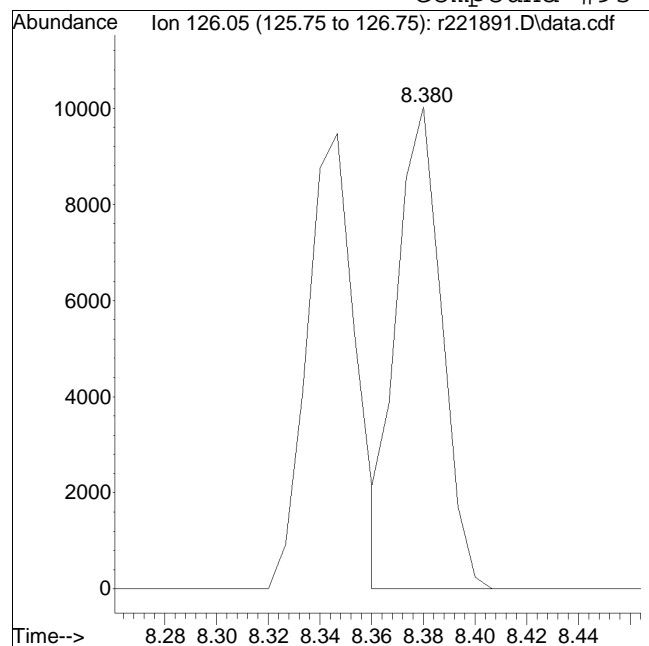
Manual Peak Response = 5591 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221891.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:36 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 12161

Manual Peak Response = 12289 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221892.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188838	10.000	ppbV	0.01
Standard Area = 192875			Recovery =	97.91%		
43) 1,4-difluorobenzene	5.377	114	650210	10.000	ppbV	0.01
Standard Area = 676282			Recovery =	96.14%		
67) chlorobenzene-D5	7.347	54	70057	10.000	ppbV	0.00
Standard Area = 69834			Recovery =	100.32%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	190281	11.204	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	112.04%		
69) toluene-D8	6.507	98	772337	9.867	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	98.67%		
90) bromofluorobenzene	8.047	95	451452	9.700	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	97.00%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.140	51	15248M6	1.027	ppbV	
3) propylene	2.160	41	10155M6	0.734	ppbV	
4) propane	2.175	29	9435	1.064	ppbV #	86
5) dichlorodifluoromethane	2.200	85	16954	1.006	ppbV	99
6) chloromethane	2.305	50	8619	1.010	ppbV	99
7) Freon-114	2.365	85	25786	1.081	ppbV	99
8) methanol	2.390	31	21290	6.033	ppbV #	58
9) vinyl chloride	2.435	62	11480	0.936	ppbV	98
10) 1,3-butadiene	2.505	54	8488	0.978	ppbV	81
11) butane	2.535	43	13911	0.842	ppbV	97
12) acetaldehyde	2.380	29	24664	5.273	ppbV	93
13) bromomethane	2.635	94	8345	1.020	ppbV	97
14) chloroethane	2.710	64	4383	0.861	ppbV	96
15) ethanol	2.755	31	17522	4.364	ppbV	89
16) dichlorofluoromethane	2.750	67	14712	0.881	ppbV	100
17) vinyl bromide	2.866	106	7658	0.989	ppbV	99
18) acrolein	2.914	56	3552	0.981	ppbV #	47
19) acetone	2.974	43	34293	3.951	ppbV #	84
20) acetonitrile	2.854	41	6165	0.746	ppbV #	53
21) trichlorofluoromethane	3.058	101	8850	0.891	ppbV	96
22) isopropyl alcohol	3.085	45	26351	1.921	ppbV #	97
23) acrylonitrile	3.190	53	6771	0.962	ppbV	98
24) pentane	3.226	43	13686	0.771	ppbV #	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221892.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.235	31	8675	0.894	ppbV	96
26) 1,1-dichloroethene	3.360	61	18028	1.005	ppbV	98
27) tertiary butyl alcohol	3.380	59	22914	0.937	ppbV	98
28) methylene chloride	3.415	49	16719	1.090	ppbV	94
29) 3-chloropropene	3.475	41	21698	0.930	ppbV	98
30) carbon disulfide	3.560	76	45862	1.067	ppbV	96
31) Freon 113	3.540	101	25502	1.058	ppbV	97
32) trans-1,2-dichloroethene	3.870	61	20950	0.980	ppbV	98
33) 1,1-dichloroethane	3.963	63	26835	1.002	ppbV	99
34) MTBE	3.997	73	39095	1.042	ppbV	96
35) vinyl acetate	4.037	43	30137	1.120	ppbV	97
36) 2-butanone	4.157	43	31284	0.987	ppbV	97
37) cis-1,2-dichloroethene	4.370	61	19181	0.977	ppbV	96
38) Ethyl Acetate	4.477	61	5336	1.018	ppbV	91
39) chloroform	4.510	83	24580	1.038	ppbV	97
40) Tetrahydrofuran	4.710	42	20574	0.921	ppbV	93
41) 2,2-dichloropropane	4.523	77	19072	1.072	ppbV	97
42) 1,2-dichloroethane	4.870	62	13901	1.037	ppbV	97
44) hexane	4.470	57	26959	1.080	ppbV	96
45) diisopropyl ether	4.470	87	16707	1.144	ppbV	83
46) tert-butyl ethyl ether	4.730	59	48308	1.101	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	20486	1.243	ppbV	97
49) 1,1-dichloropropene	5.143	75	21524	1.133	ppbV	92
50) benzene	5.210	78	53331	1.097	ppbV	100
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	18900	1.229	ppbV	99
53) cyclohexane	5.343	56	29447M6	1.047	ppbV	
54) tert-amyl methyl ether	5.497	73	46886	1.194	ppbV	98
55) dibromomethane	5.583	93	13527	1.206	ppbV	96
56) 1,2-dichloropropane	5.597	63	17878	1.126	ppbV	98
57) bromodichloromethane	5.690	83	24979	1.212	ppbV	98
58) 1,4-dioxane	5.710	88	11693	1.109	ppbV	96
59) trichloroethene	5.710	130	22016	1.172	ppbV	96
60) 2,2,4-trimethylpentane	5.723	57	86093	1.131	ppbV	99
61) methyl methacrylate	5.797	41	17610	1.098	ppbV	92
62) heptane	5.843	43	33248	1.106	ppbV	97
63) cis-1,3-dichloropropene	6.107	75	25838	1.211	ppbV	94
64) 4-methyl-2-pentanone	6.120	43	38996	1.212	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	21056	1.236	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	18750	1.178	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221892.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	63582	1.072	ppbV	98
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	28353	1.144	ppbV	95
72) 2-hexanone	6.667	43	36902	1.091	ppbV	95
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	25142	1.156	ppbV	99
75) 1,2-dibromoethane	6.853	107	27212	1.116	ppbV	99
76) butyl acetate	6.947	73	8196	1.092	ppbV	95
77) octane	6.987	85	26507	1.077	ppbV	97
78) tetrachloroethene	7.060	166	24632	1.046	ppbV	94
79) 1,1,1,2-tetrachloroethane	7.360	131	20406	1.173	ppbV	97
80) chlorobenzene	7.367	112	49882	1.101	ppbV	96
81) ethylbenzene	7.533	91	77179	1.081	ppbV	99
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	125832	2.254	ppbV	99
84) bromoform	7.653	173	21215	1.148	ppbV	98
85) styrene	7.780	104	51810	1.070	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	41464	1.124	ppbV	99
87) o-xylene	7.833	91	62545	1.153	ppbV	100
88) 1,2,3-trichloropropane	7.893	75	32323	1.153	ppbV	94
89) nonane	7.927	43	48350	1.094	ppbV	97
91) isopropylbenzene	8.107	105	82507	1.138	ppbV	96
92) bromobenzene	8.160	77	44492	1.155	ppbV	87
93) 2-chlorotoluene	8.347	126	24374M3	1.065	ppbV	
94) n-propylbenzene	8.360	120	28800	1.075	ppbV	93
95) 4-chlorotoluene	8.380	126	24226	1.093	ppbV	94
96) 4-ethyl toluene	8.433	105	89243	1.177	ppbV	96
97) 1,3,5-trimethylbenzene	8.467	105	71781	1.105	ppbV	94
98) tert-butylbenzene	8.677	119	77758	1.165	ppbV	98
99) 1,2,4-trimethylbenzene	8.677	105	74915	1.229	ppbV	94
100) decane	8.723	57	57511	1.073	ppbV	96
101) Benzyl Chloride	8.750	91	35936	0.993	ppbV	97
102) 1,3-dichlorobenzene	8.763	146	50515	1.134	ppbV #	93
103) 1,4-dichlorobenzene	8.797	146	49424	1.184	ppbV	96
104) sec-butylbenzene	8.817	105	104394	1.167	ppbV	98
105) 1,2,3-trimethylbenzene	8.897	105	68900	1.247	ppbV	94
106) p-isopropyltoluene	8.897	119	93127	1.173	ppbV	98
107) 1,2-dichlorobenzene	8.970	146	46636	1.122	ppbV	99
108) n-butylbenzene	9.110	91	77634	1.135	ppbV	97
109) indan	9.003	117	75377	1.119	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221892.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

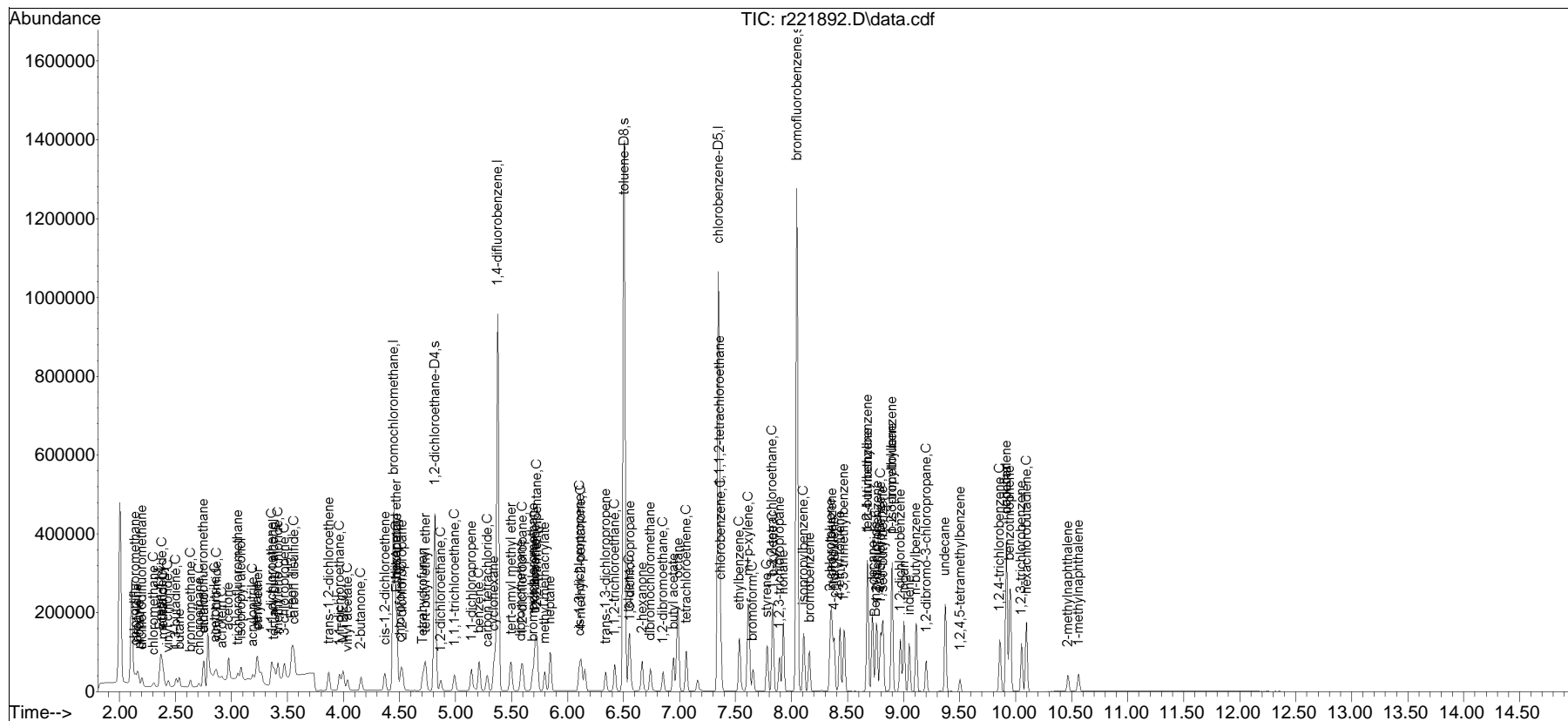
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	49654	1.070	ppbV	100
111) 1,2-dibromo-3-chloropr...	9.203	75	16642	1.210	ppbV #	79
112) undecane	9.370	57	62260	1.072	ppbV	95
113) 1,2,4,5-tetramethylben...	9.503	119	13758	1.020	ppbV	98
114) dodecane	9.918	57	62723	1.129	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	36088	1.002	ppbV	94
116) naphthalene	9.918	128	97529	1.102	ppbV #	96
117) 1,2,3-trichlorobenzene	10.053	180	31907	1.013	ppbV	95
118) benzothiophene	9.947	134	178357	1.156	ppbV	100
119) hexachlorobutadiene	10.098	225	31315	1.100	ppbV #	91
120) 2-methylnaphthalene	10.465	142	19334	0.508	ppbV	95
121) 1-methylnaphthalene	10.563	142	19517	0.512	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221892.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

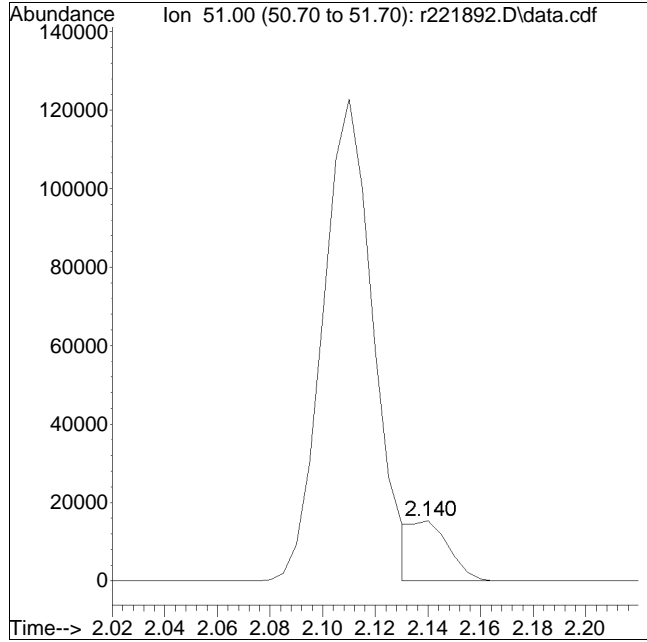
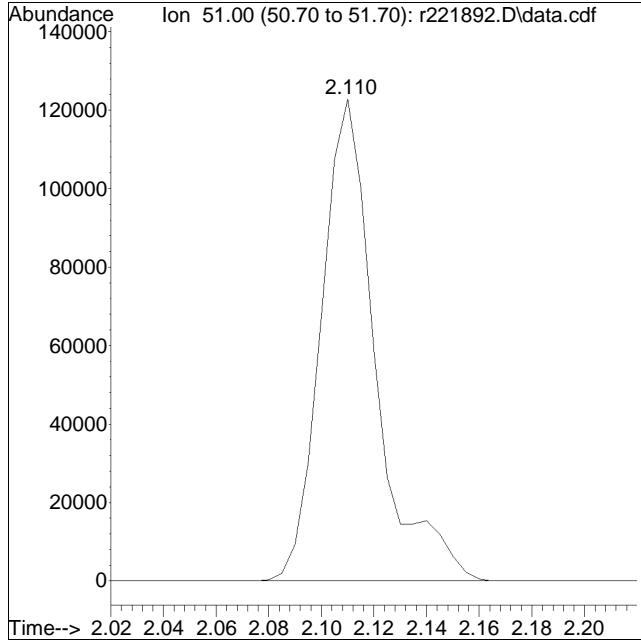
Quant Time: Nov 30 12:37:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 177044

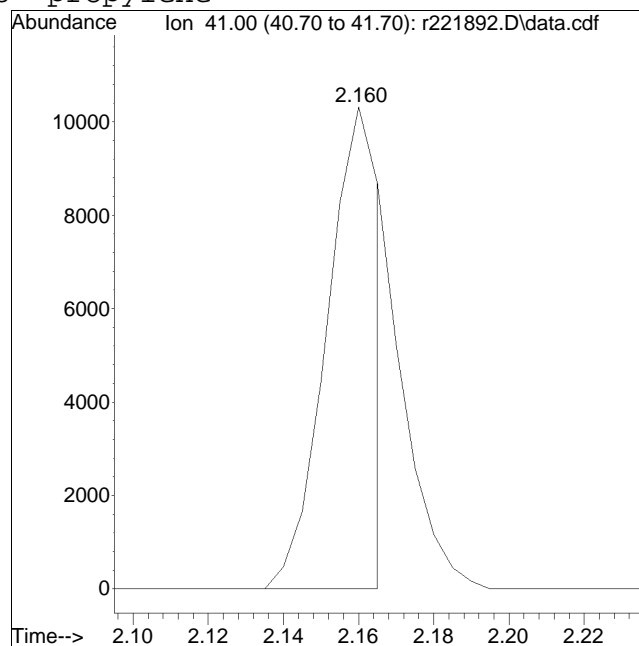
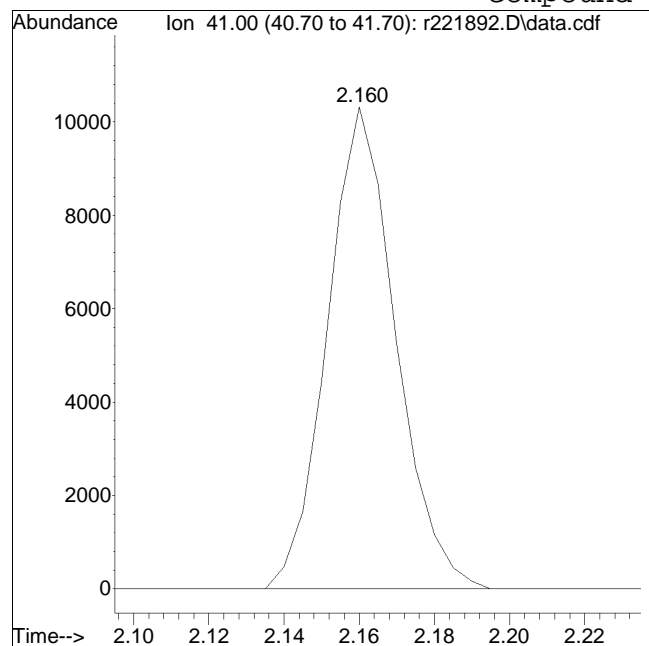
Manual Peak Response = 15248 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 13032

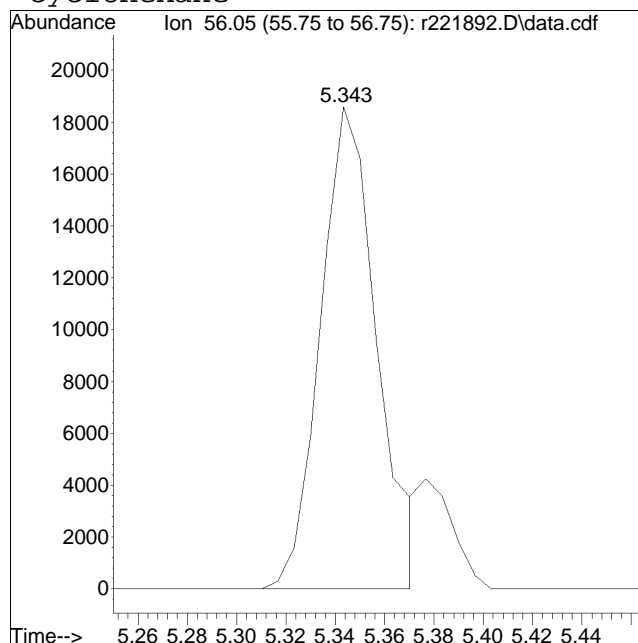
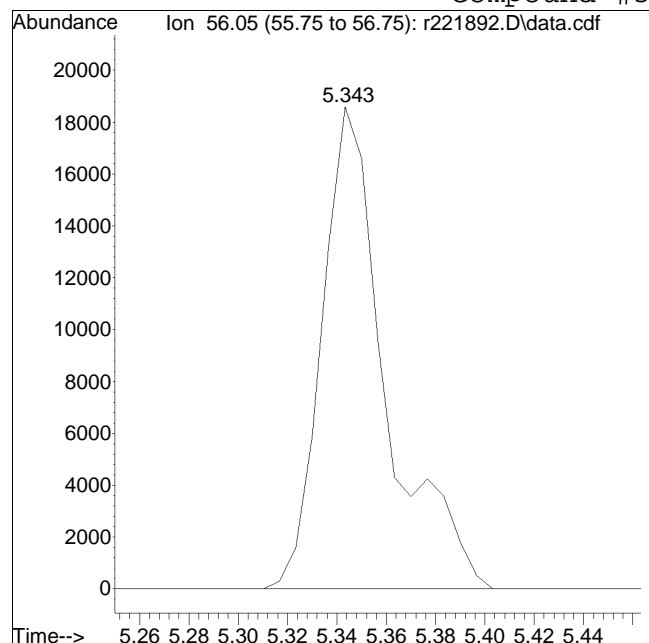
Manual Peak Response = 10155 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #53: cyclohexane



Original Peak Response = 33508

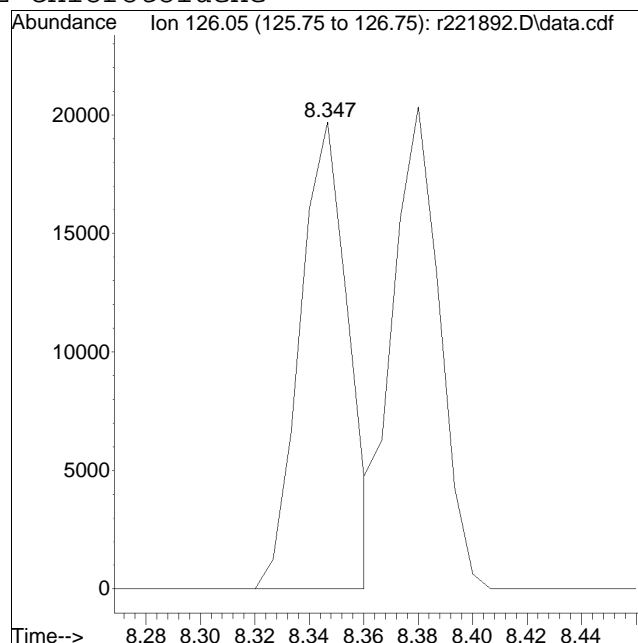
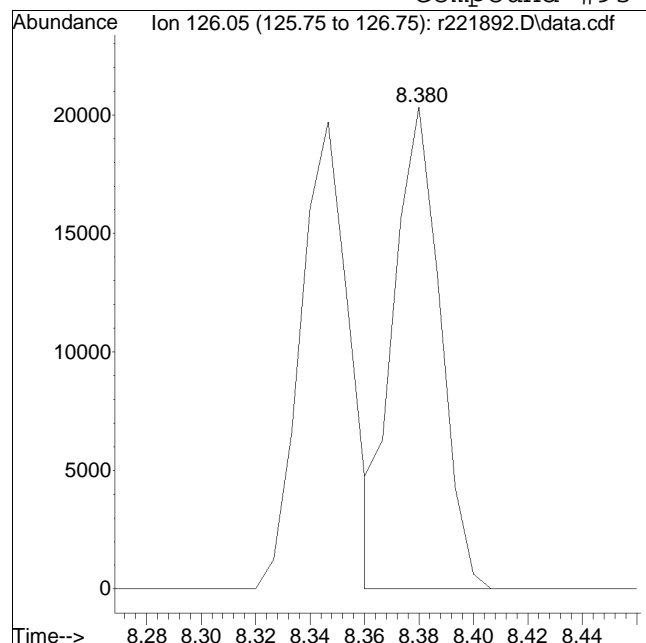
Manual Peak Response = 29447 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221892.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene



M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221893.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	188536	10.000	ppbV	0.01
Standard Area = 192875			Recovery =	97.75%		
43) 1,4-difluorobenzene	5.377	114	660230	10.000	ppbV	0.01
Standard Area = 676282			Recovery =	97.63%		
67) chlorobenzene-D5	7.347	54	69907	10.000	ppbV	0.00
Standard Area = 69834			Recovery =	100.10%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	191425	11.101	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	111.01%		
69) toluene-D8	6.507	98	781917	10.010	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.10%		
90) bromofluorobenzene	8.047	95	466382	10.042	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	100.42%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.135	51	59439M6	4.010	ppbV	
3) propylene	2.155	41	49937M6	3.613	ppbV	
4) propane	2.170	29	39889	4.505	ppbV	95
5) dichlorodifluoromethane	2.200	85	82706	4.915	ppbV	99
6) chloromethane	2.305	50	40257	4.726	ppbV	99
7) Freon-114	2.360	85	117739	4.945	ppbV	97
8) methanol	2.390	31	84776	24.060	ppbV #	84
9) vinyl chloride	2.435	62	54400	4.442	ppbV	99
10) 1,3-butadiene	2.500	54	38920	4.491	ppbV #	79
11) butane	2.530	43	63292	3.839	ppbV	97
12) acetaldehyde	2.375	29	104841	22.449	ppbV	98
13) bromomethane	2.630	94	39244	4.804	ppbV	99
14) chloroethane	2.705	64	20494	4.034	ppbV	99
15) ethanol	2.745	31	86581	21.599	ppbV	90
16) dichlorofluoromethane	2.745	67	77235	4.634	ppbV	99
17) vinyl bromide	2.860	106	34796	4.499	ppbV	98
18) acrolein	2.908	56	16611	4.597	ppbV	97
19) acetone	2.968	43	150778	17.398	ppbV #	85
20) acetonitrile	2.848	41	28574	3.465	ppbV	93
21) trichlorofluoromethane	3.052	101	42259	4.260	ppbV	100
22) isopropyl alcohol	3.076	45	125631	9.173	ppbV	98
23) acrylonitrile	3.184	53	31838	4.531	ppbV	99
24) pentane	3.220	43	64293	3.627	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221893.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.226	31	41155	4.248	ppbV	96
26) 1,1-dichloroethene	3.355	61	83150	4.643	ppbV	96
27) tertiary butyl alcohol	3.370	59	123646	5.064	ppbV	98
28) methylene chloride	3.410	49	75512	4.933	ppbV	92
29) 3-chloropropene	3.470	41	100975	4.337	ppbV	97
30) carbon disulfide	3.555	76	209565	4.882	ppbV	100
31) Freon 113	3.540	101	118298	4.914	ppbV	98
32) trans-1,2-dichloroethene	3.863	61	97462	4.568	ppbV	97
33) 1,1-dichloroethane	3.963	63	127274	4.760	ppbV	98
34) MTBE	3.990	73	181541	4.847	ppbV	96
35) vinyl acetate	4.030	43	131890	4.910	ppbV	98
36) 2-butanone	4.150	43	159291	5.032	ppbV	97
37) cis-1,2-dichloroethene	4.363	61	90896	4.637	ppbV	93
38) Ethyl Acetate	4.470	61	24558	4.693	ppbV	88
39) chloroform	4.510	83	113660	4.807	ppbV	99
40) Tetrahydrofuran	4.703	42	97459	4.371	ppbV	95
41) 2,2-dichloropropane	4.523	77	91510	5.153	ppbV	95
42) 1,2-dichloroethane	4.863	62	62698	4.686	ppbV	98
44) hexane	4.470	57	123758	4.881	ppbV	98
45) diisopropyl ether	4.463	87	77275	5.210	ppbV	85
46) tert-butyl ethyl ether	4.723	59	230657	5.178	ppbV	98
48) 1,1,1-trichloroethane	4.990	97	97982	5.856	ppbV	96
49) 1,1-dichloropropene	5.143	75	103105	5.346	ppbV	92
50) benzene	5.210	78	253861	5.140	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	89113	5.707	ppbV	100
53) cyclohexane	5.343	56	136233	4.769	ppbV	99
54) tert-amyl methyl ether	5.490	73	224121	5.619	ppbV	97
55) dibromomethane	5.583	93	64058	5.624	ppbV	97
56) 1,2-dichloropropane	5.597	63	85619	5.309	ppbV	98
57) bromodichloromethane	5.690	83	114832	5.486	ppbV	100
58) 1,4-dioxane	5.703	88	53350	4.985	ppbV	98
59) trichloroethene	5.710	130	105861	5.552	ppbV	98
60) 2,2,4-trimethylpentane	5.723	57	393179	5.087	ppbV	99
61) methyl methacrylate	5.797	41	85189	5.229	ppbV	91
62) heptane	5.843	43	154964	5.076	ppbV	97
63) cis-1,3-dichloropropene	6.100	75	125214	5.780	ppbV	91
64) 4-methyl-2-pentanone	6.120	43	179301	5.490	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	99870	5.775	ppbV	93
66) 1,1,2-trichloroethane	6.420	97	91261	5.644	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221893.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	302110	5.104	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	135312	5.471	ppbV	94
72) 2-hexanone	6.660	43	170710	5.060	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	119301	5.497	ppbV	99
75) 1,2-dibromoethane	6.853	107	131092	5.387	ppbV	99
76) butyl acetate	6.940	73	42490	5.672	ppbV	86
77) octane	6.987	85	126788	5.161	ppbV	99
78) tetrachloroethene	7.060	166	119169	5.072	ppbV	96
79) 1,1,1,2-tetrachloroethane	7.360	131	96426	5.556	ppbV	99
80) chlorobenzene	7.367	112	238716	5.282	ppbV	98
81) ethylbenzene	7.533	91	370253	5.195	ppbV	97
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	602120	10.810	ppbV	99
84) bromoform	7.653	173	99815	5.413	ppbV	98
85) styrene	7.780	104	258469	5.349	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	201014	5.463	ppbV	100
87) o-xylene	7.833	91	297231	5.493	ppbV	99
88) 1,2,3-trichloropropane	7.893	75	157857	5.645	ppbV	93
89) nonane	7.927	43	230753	5.233	ppbV	97
91) isopropylbenzene	8.107	105	397673	5.496	ppbV	97
92) bromobenzene	8.160	77	214254	5.572	ppbV	87
93) 2-chlorotoluene	8.347	126	120940M3	5.296	ppbV	
94) n-propylbenzene	8.360	120	144217	5.394	ppbV	84
95) 4-chlorotoluene	8.380	126	120398	5.443	ppbV	100
96) 4-ethyl toluene	8.433	105	429074	5.672	ppbV	97
97) 1,3,5-trimethylbenzene	8.467	105	355344	5.484	ppbV	96
98) tert-butylbenzene	8.677	119	366424	5.501	ppbV	99
99) 1,2,4-trimethylbenzene	8.677	105	359689	5.914	ppbV	97
100) decane	8.723	57	284210	5.316	ppbV	98
101) Benzyl Chloride	8.750	91	200685	5.558	ppbV	99
102) 1,3-dichlorobenzene	8.763	146	257852	5.801	ppbV	96
103) 1,4-dichlorobenzene	8.797	146	247413	5.940	ppbV	97
104) sec-butylbenzene	8.817	105	513121	5.748	ppbV	99
105) 1,2,3-trimethylbenzene	8.897	105	322088	5.841	ppbV	96
106) p-isopropyltoluene	8.897	119	451530	5.698	ppbV	100
107) 1,2-dichlorobenzene	8.970	146	238100	5.741	ppbV	99
108) n-butylbenzene	9.110	91	391394	5.735	ppbV	100
109) indan	9.003	117	373109	5.551	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221893.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

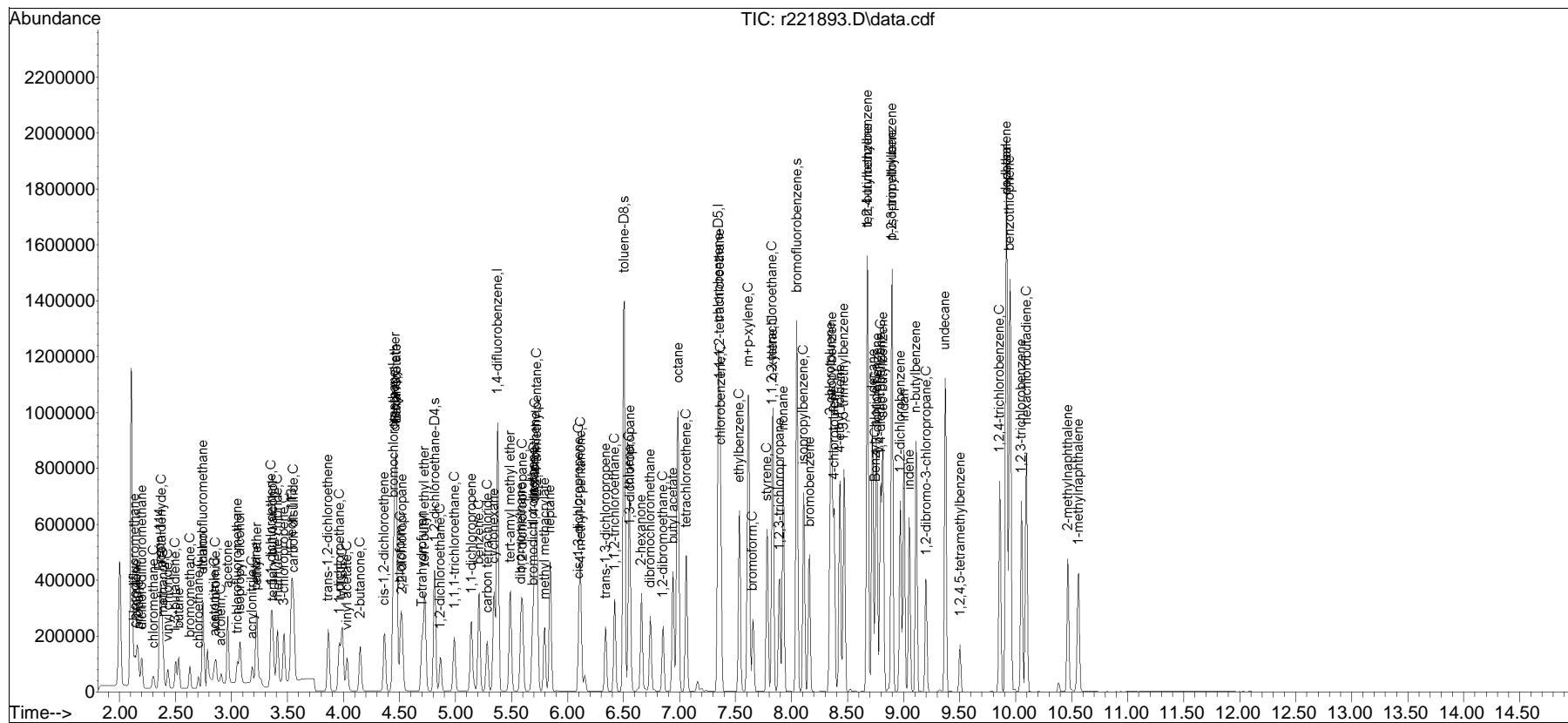
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	253253	5.470	ppbV	100
111) 1,2-dibromo-3-chloropr...	9.203	75	85530	6.234	ppbV	80
112) undecane	9.370	57	323276	5.576	ppbV	97
113) 1,2,4,5-tetramethylben...	9.503	119	69375	5.156	ppbV	100
114) dodecane	9.918	57	337597	6.091	ppbV	100
115) 1,2,4-trichlorobenzene	9.857	180	205635	5.723	ppbV	95
116) naphthalene	9.918	128	509653	5.769	ppbV	99
117) 1,2,3-trichlorobenzene	10.053	180	178473	5.678	ppbV	95
118) benzothiophene	9.947	134	1003501	6.516	ppbV	99
119) hexachlorobutadiene	10.098	225	157096	5.528	ppbV	96
120) 2-methylnaphthalene	10.465	142	201403	5.301	ppbV	96
121) 1-methylnaphthalene	10.563	142	196965	5.174	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221893.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

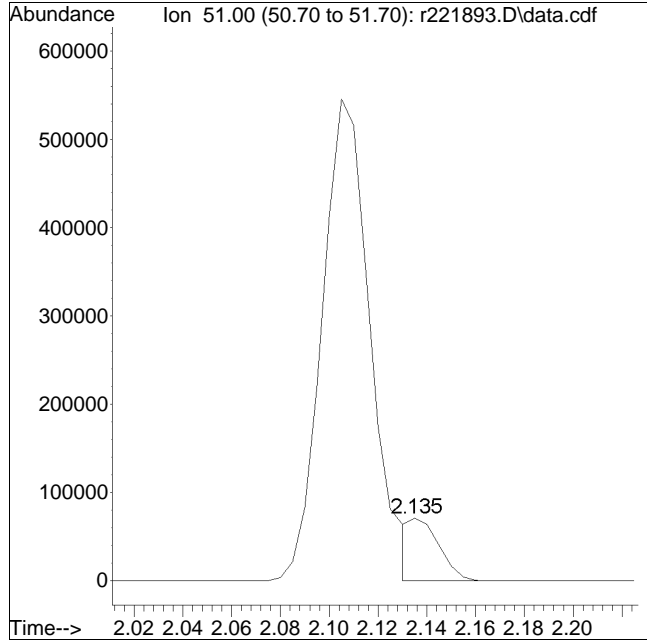
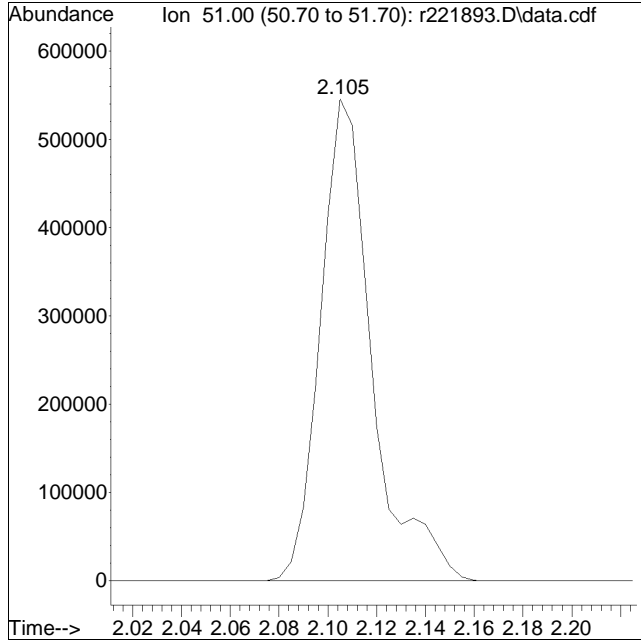
Quant Time: Nov 30 12:37:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221893.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 802764

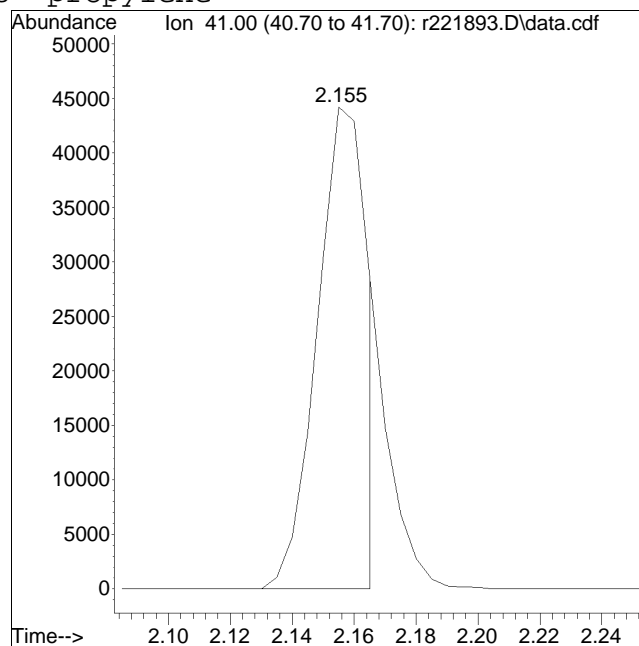
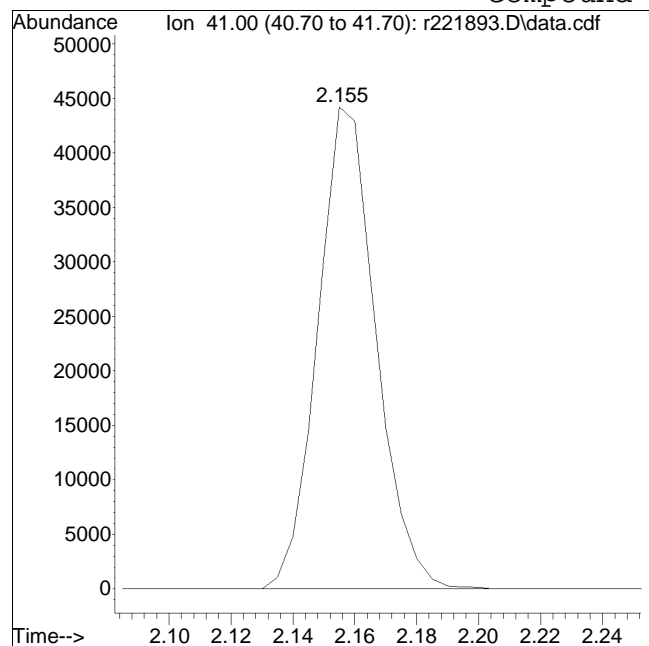
Manual Peak Response = 59439 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221893.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 57733

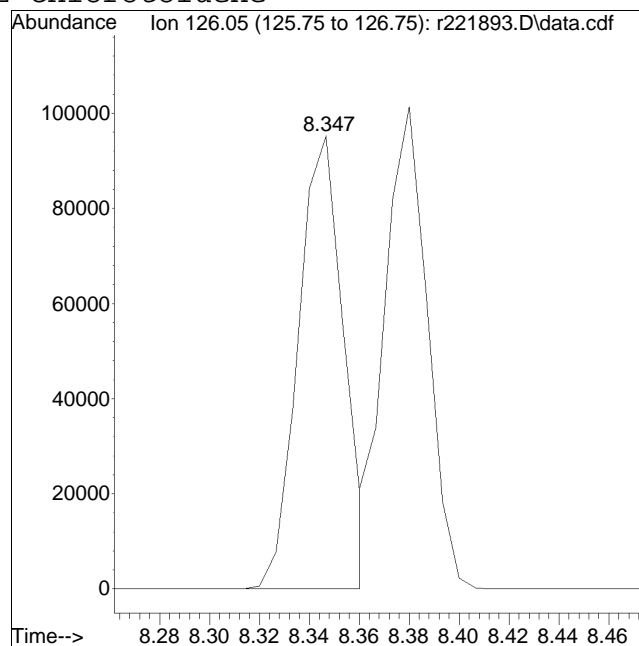
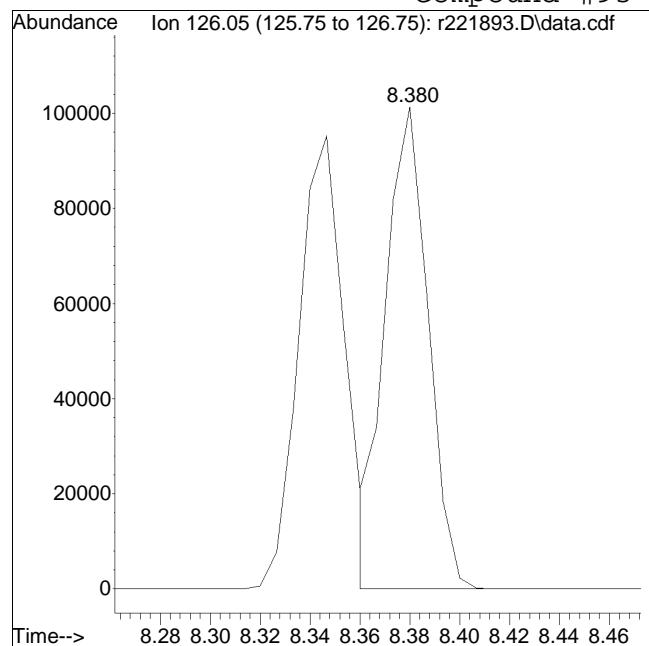
Manual Peak Response = 49937 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221893.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 120398

Manual Peak Response = 120940 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221894.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	192875	10.000	ppbV	0.01
Standard Area = 192875			Recovery = 100.00%			
43) 1,4-difluorobenzene	5.377	114	676282	10.000	ppbV	0.01
Standard Area = 676282			Recovery = 100.00%			
67) chlorobenzene-D5	7.347	54	69834	10.000	ppbV	0.00
Standard Area = 69834			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	194933	11.036	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.36%			
69) toluene-D8	6.507	98	810388	10.386	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.86%			
90) bromofluorobenzene	8.047	95	481887	10.387	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.87%			
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.140	51	140417M6	9.259	ppbV	
3) propylene	2.160	41	96060M6	6.794	ppbV	
4) propane	2.170	29	77992	8.610	ppbV #	92
5) dichlorodifluoromethane	2.200	85	147522	8.570	ppbV	99
6) chloromethane	2.305	50	82571	9.476	ppbV	98
7) Freon-114	2.365	85	231641	9.510	ppbV	98
8) methanol	2.390	31	168686	46.798	ppbV	96
9) vinyl chloride	2.435	62	109501	8.740	ppbV	99
10) 1,3-butadiene	2.505	54	78746	8.881	ppbV #	80
11) butane	2.535	43	126924	7.526	ppbV	97
12) acetaldehyde	2.380	29	206955	43.318	ppbV	95
13) bromomethane	2.635	94	76820	9.193	ppbV	97
14) chloroethane	2.710	64	41443	7.974	ppbV	99
15) ethanol	2.750	31	162929	39.731	ppbV	90
16) dichlorofluoromethane	2.750	67	126062	7.393	ppbV	99
17) vinyl bromide	2.866	106	69048	8.727	ppbV	99
18) acrolein	2.911	56	33773	9.136	ppbV	97
19) acetone	2.971	43	299211	33.748	ppbV #	85
20) acetonitrile	2.851	41	57802	6.851	ppbV	98
21) trichlorofluoromethane	3.058	101	83638	8.242	ppbV	97
22) isopropyl alcohol	3.079	45	246854	17.620	ppbV	98
23) acrylonitrile	3.190	53	64509	8.974	ppbV	99
24) pentane	3.223	43	127135	7.011	ppbV #	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221894.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.232	31	82747	8.348	ppbV	96
26) 1,1-dichloroethene	3.360	61	166538	9.090	ppbV	96
27) tertiary butyl alcohol	3.370	59	244000	9.768	ppbV	99
28) methylene chloride	3.415	49	152617	9.746	ppbV	92
29) 3-chloropropene	3.470	41	204643	8.591	ppbV	95
30) carbon disulfide	3.560	76	422394	9.619	ppbV	100
31) Freon 113	3.540	101	237205	9.632	ppbV	98
32) trans-1,2-dichloroethene	3.870	61	196950	9.023	ppbV	98
33) 1,1-dichloroethane	3.963	63	256666	9.383	ppbV	98
34) MTBE	3.990	73	368829	9.626	ppbV	96
35) vinyl acetate	4.037	43	278361	10.130	ppbV	98
36) 2-butanone	4.150	43	322113	9.946	ppbV	97
37) cis-1,2-dichloroethene	4.370	61	182800	9.115	ppbV	94
38) Ethyl Acetate	4.470	61	50562	9.445	ppbV	98
39) chloroform	4.510	83	228609	9.450	ppbV	99
40) Tetrahydrofuran	4.703	42	198920	8.720	ppbV	95
41) 2,2-dichloropropane	4.523	77	185891	10.231	ppbV	94
42) 1,2-dichloroethane	4.870	62	126182	9.218	ppbV	97
44) hexane	4.470	57	245406	9.449	ppbV	94
45) diisopropyl ether	4.463	87	157778	10.385	ppbV	90
46) tert-butyl ethyl ether	4.723	59	464116	10.171	ppbV	97
48) 1,1,1-trichloroethane	4.990	97	195462	11.404	ppbV	97
49) 1,1-dichloropropene	5.143	75	209353	10.598	ppbV	92
50) benzene	5.210	78	520486	10.289	ppbV	100
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	177175	11.078	ppbV	99
53) cyclohexane	5.343	56	270612	9.248	ppbV	98
54) tert-amyl methyl ether	5.490	73	455214	11.142	ppbV	97
55) dibromomethane	5.583	93	126628	10.854	ppbV	97
56) 1,2-dichloropropane	5.597	63	173864	10.525	ppbV	98
57) bromodichloromethane	5.690	83	228250	10.646	ppbV	100
58) 1,4-dioxane	5.703	88	113425	10.346	ppbV	97
59) trichloroethene	5.710	130	212534	10.882	ppbV	98
60) 2,2,4-trimethylpentane	5.730	57	786254	9.931	ppbV	99
61) methyl methacrylate	5.797	41	175381	10.510	ppbV	89
62) heptane	5.843	43	310237	9.920	ppbV	97
63) cis-1,3-dichloropropene	6.107	75	255388	11.509	ppbV	94
64) 4-methyl-2-pentanone	6.113	43	356717	10.663	ppbV	97
65) trans-1,3-dichloropropene	6.340	75	204471	11.544	ppbV	92
66) 1,1,2-trichloroethane	6.420	97	186089	11.236	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221894.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	601602	10.175	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	271906	11.006	ppbV	92
72) 2-hexanone	6.660	43	345973	10.265	ppbV	96
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	235797	10.877	ppbV	100
75) 1,2-dibromoethane	6.853	107	262569	10.802	ppbV	99
76) butyl acetate	6.940	73	87982	11.757	ppbV	84
77) octane	6.987	85	248802	10.139	ppbV	98
78) tetrachloroethene	7.060	166	236393	10.072	ppbV	98
79) 1,1,1,2-tetrachloroethane	7.360	131	188685	10.882	ppbV	99
80) chlorobenzene	7.367	112	471863	10.453	ppbV	99
81) ethylbenzene	7.533	91	735292	10.328	ppbV	96
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	1167395	20.981	ppbV	97
84) bromoform	7.653	173	197288	10.710	ppbV	98
85) styrene	7.780	104	521157	10.797	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	391791	10.659	ppbV	99
87) o-xylene	7.833	91	571657	10.576	ppbV	96
88) 1,2,3-trichloropropane	7.893	75	316384	11.326	ppbV	93
89) nonane	7.927	43	451209	10.244	ppbV	98
91) isopropylbenzene	8.107	105	781440	10.811	ppbV	99
92) bromobenzene	8.160	77	423136	11.016	ppbV	91
93) 2-chlorotoluene	8.347	126	240064M3	10.524	ppbV	
94) n-propylbenzene	8.360	120	286808	10.738	ppbV	82
95) 4-chlorotoluene	8.380	126	240880	10.900	ppbV	100
96) 4-ethyl toluene	8.433	105	830898	10.995	ppbV	98
97) 1,3,5-trimethylbenzene	8.467	105	693252	10.710	ppbV	98
98) tert-butylbenzene	8.677	119	692470	10.407	ppbV	98
99) 1,2,4-trimethylbenzene	8.677	105	663260	10.917	ppbV	99
100) decane	8.723	57	554140	10.375	ppbV	99
101) Benzyl Chloride	8.750	91	415662	11.524	ppbV	99
102) 1,3-dichlorobenzene	8.763	146	492291	11.087	ppbV	97
103) 1,4-dichlorobenzene	8.797	146	481237	11.565	ppbV	99
104) sec-butylbenzene	8.817	105	992522	11.129	ppbV	100
105) 1,2,3-trimethylbenzene	8.897	105	590668	10.723	ppbV	98
106) p-isopropyltoluene	8.897	119	830121	10.486	ppbV	98
107) 1,2-dichlorobenzene	8.970	146	469634	11.336	ppbV	99
108) n-butylbenzene	9.110	91	747849	10.970	ppbV	99
109) indan	9.003	117	716318	10.669	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221894.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:30:08 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

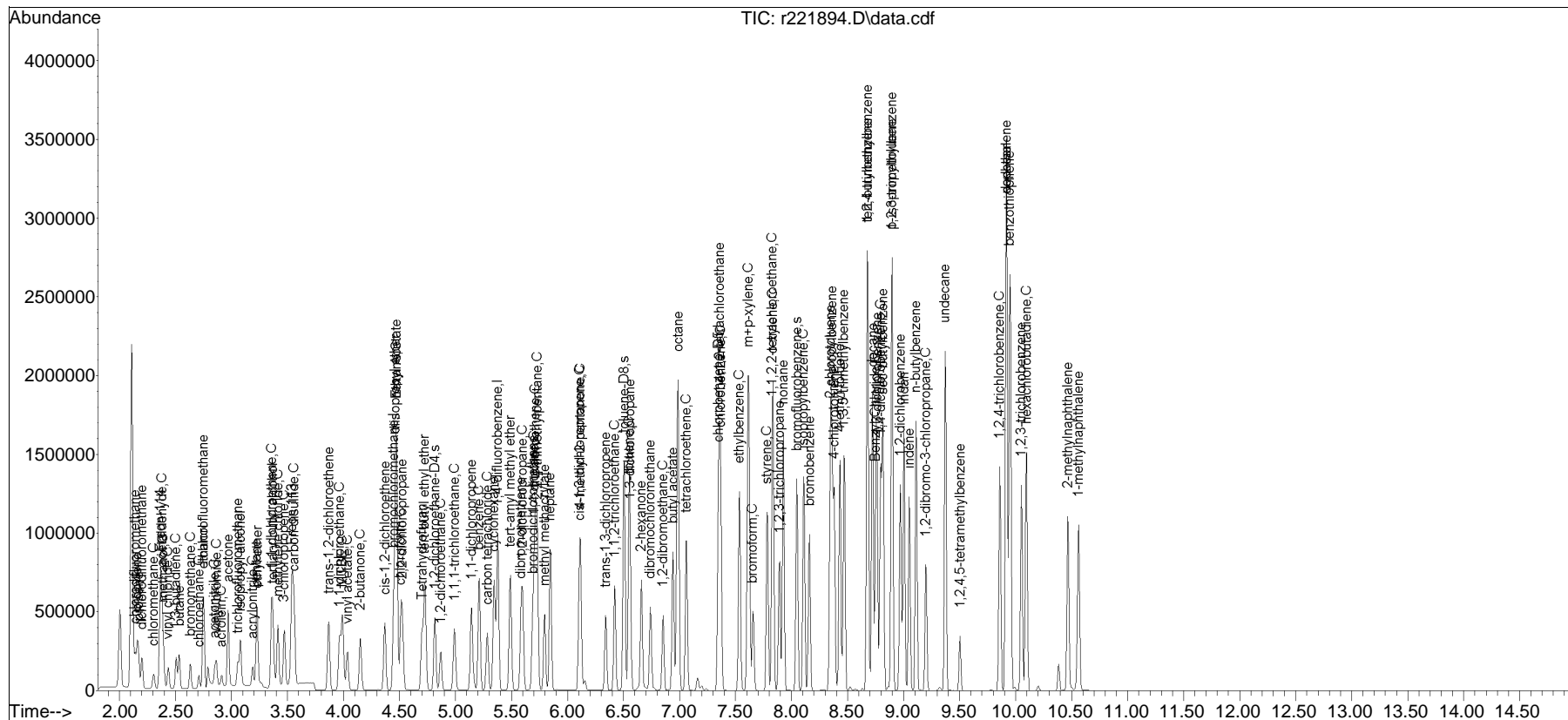
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	507437	10.972	ppbV	98
111) 1,2-dibromo-3-chloropr...	9.197	75	160344	11.698	ppbV	91
112) undecane	9.370	57	620048	10.706	ppbV	96
113) 1,2,4,5-tetramethylben...	9.503	119	144239	10.731	ppbV	99
114) dodecane	9.918	57	605114	10.930	ppbV	98
115) 1,2,4-trichlorobenzene	9.857	180	400929	11.170	ppbV	97
116) naphthalene	9.918	128	952596	10.794	ppbV	100
117) 1,2,3-trichlorobenzene	10.053	180	346557	11.038	ppbV	96
118) benzothiophene	9.947	134	1830297	11.897	ppbV	99
119) hexachlorobutadiene	10.098	225	284166	10.009	ppbV	99
120) 2-methylnaphthalene	10.465	142	483269	12.733	ppbV	97
121) 1-methylnaphthalene	10.563	142	465621	12.245	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221894.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

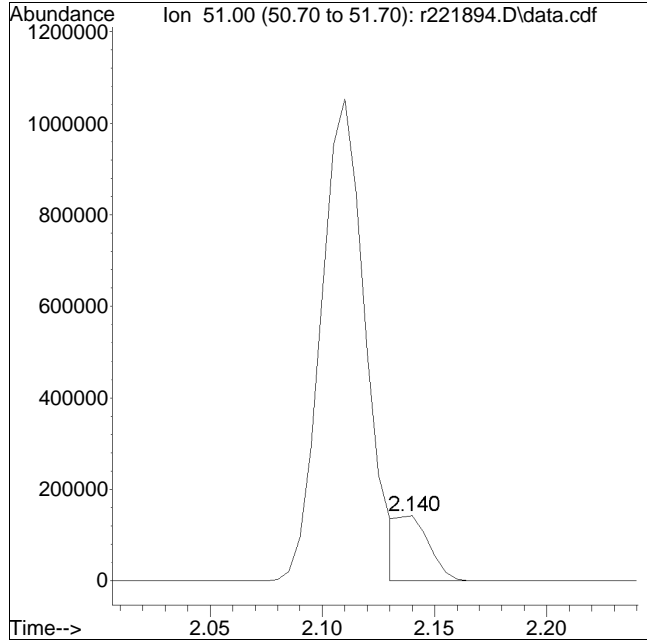
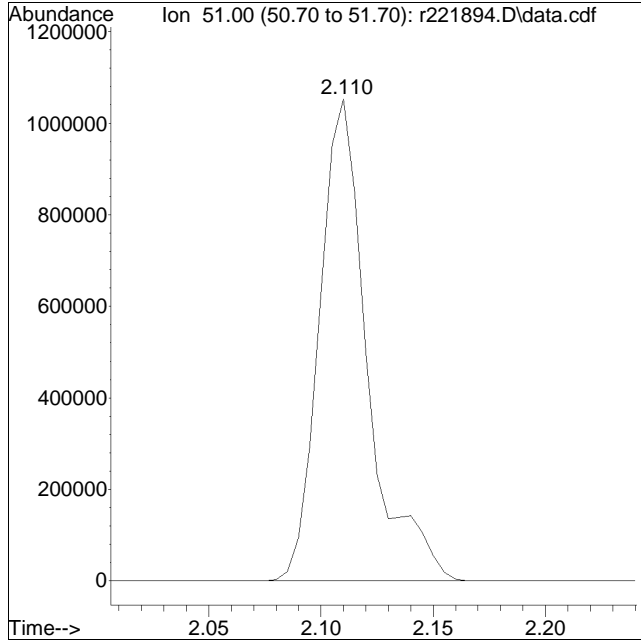
Quant Time: Nov 30 12:30:08 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 1569241

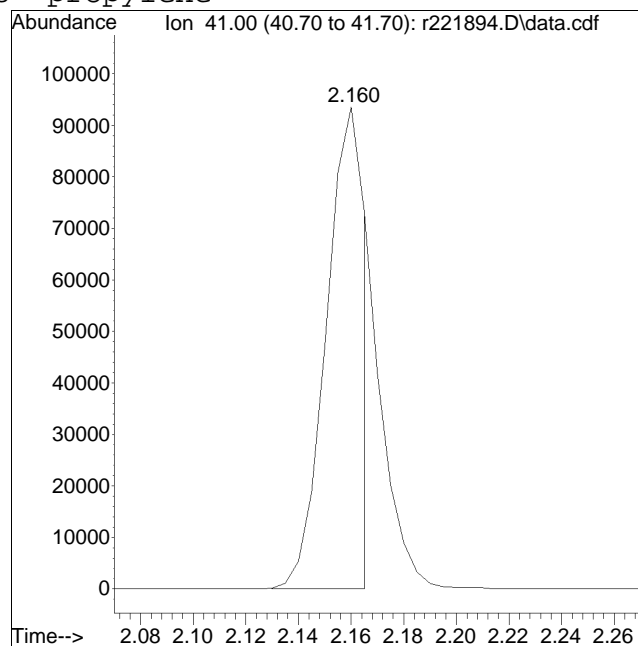
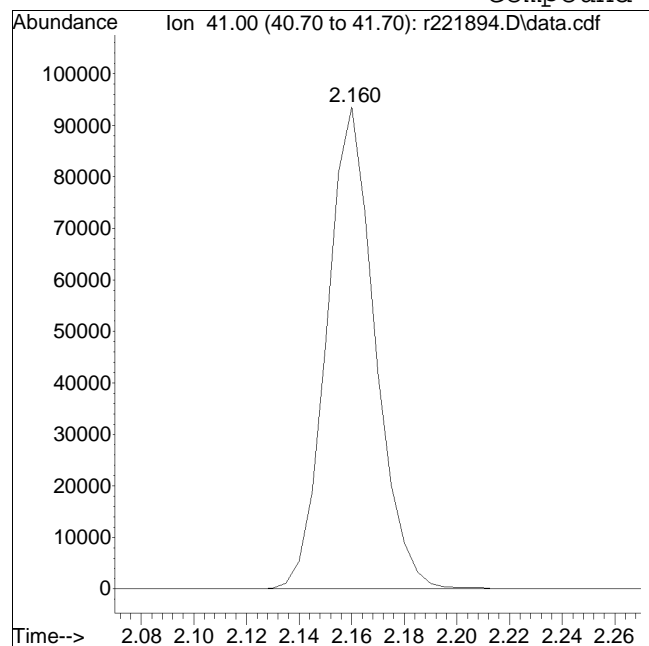
Manual Peak Response = 140417 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #3: propylene



Original Peak Response = 119065

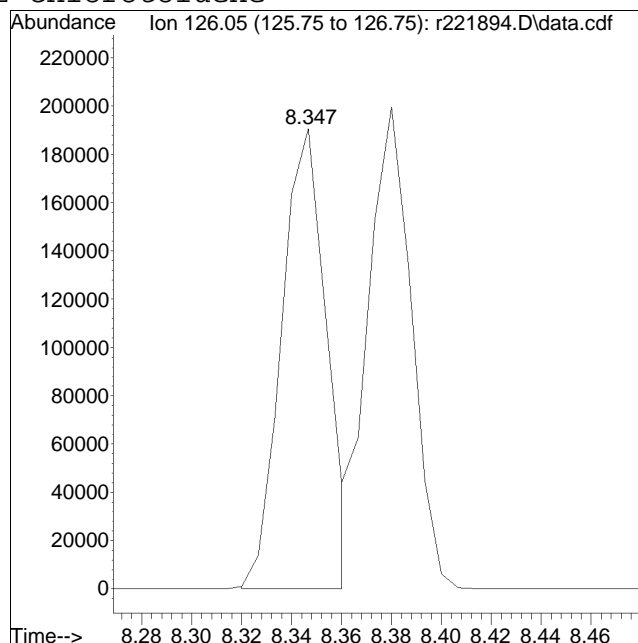
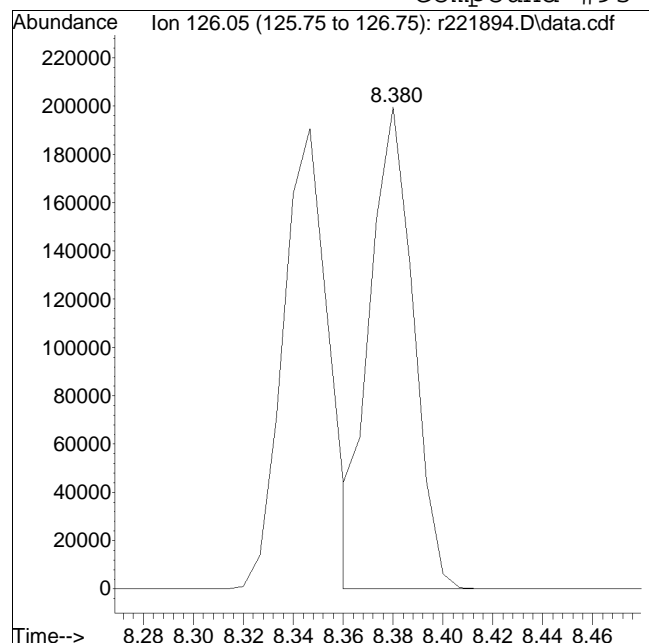
Manual Peak Response = 96060 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221894.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:30 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 240880

Manual Peak Response = 240064 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221895.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	4.450	49	199371	10.000	ppbV	0.01	
Standard Area = 192875			Recovery =	103.37%			
43) 1,4-difluorobenzene	5.377	114	706361	10.000	ppbV	0.01	
Standard Area = 676282			Recovery =	104.45%			
67) chlorobenzene-D5	7.347	54	68673	10.000	ppbV	0.00	
Standard Area = 69834			Recovery =	98.34%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	4.817	65	197026	10.679	ppbV	0.01	
Spiked Amount 10.000	Range 70 - 130		Recovery =	106.79%			
69) toluene-D8	6.500	98	832124	10.845	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.45%			
90) bromofluorobenzene	8.047	95	483526	10.599	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.99%			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	2.140	51	229339M6	14.630	ppbV		
3) propylene	2.160	41	217243M6	14.864	ppbV		
4) propane	2.175	29	151970	16.230	ppbV		94
5) dichlorodifluoromethane	2.200	85	303399	17.051	ppbV		99
6) chloromethane	2.305	50	167107	18.552	ppbV		99
7) Freon-114	2.365	85	424270	16.852	ppbV		98
8) methanol	2.390	31	328608	88.194	ppbV		95
9) vinyl chloride	2.435	62	209941	16.212	ppbV		99
10) 1,3-butadiene	2.505	54	157410	17.175	ppbV #		80
11) butane	2.530	43	247484	14.196	ppbV		97
12) acetaldehyde	2.380	29	390424	79.057	ppbV		97
13) bromomethane	2.630	94	147611	17.089	ppbV		98
14) chloroethane	2.710	64	81121	15.100	ppbV		99
15) ethanol	2.745	31	323983	76.431	ppbV		89
16) dichlorofluoromethane	2.745	67	244876	13.893	ppbV		98
17) vinyl bromide	2.863	106	138163	16.894	ppbV		99
18) acrolein	2.911	56	66551	17.417	ppbV #		94
19) acetone	2.968	43	593507	64.761	ppbV #		86
20) acetonitrile	2.848	41	115764	13.274	ppbV		99
21) trichlorofluoromethane	3.055	101	161235	15.371	ppbV		98
22) isopropyl alcohol	3.076	45	511087	35.291	ppbV		98
23) acrylonitrile	3.187	53	133235	17.931	ppbV		100
24) pentane	3.223	43	251530	13.418	ppbV #		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221895.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.229	31	162560	15.866	ppbV	96
26) 1,1-dichloroethene	3.355	61	340334	17.972	ppbV	92
27) tertiary butyl alcohol	3.365	59	511224	19.800	ppbV	100
28) methylene chloride	3.415	49	306817	18.954	ppbV	92
29) 3-chloropropene	3.470	41	421697	17.127	ppbV	94
30) carbon disulfide	3.560	76	865329	19.063	ppbV	99
31) Freon 113	3.540	101	468302	18.397	ppbV	99
32) trans-1,2-dichloroethene	3.870	61	399512	17.706	ppbV	94
33) 1,1-dichloroethane	3.963	63	512146	18.112	ppbV	98
34) MTBE	3.990	73	753884	19.034	ppbV	96
35) vinyl acetate	4.030	43	595866	20.977	ppbV	99
36) 2-butanone	4.150	43	667694	19.946	ppbV	96
37) cis-1,2-dichloroethene	4.370	61	361111	17.419	ppbV	92
38) Ethyl Acetate	4.470	61	100787	18.214	ppbV	80
39) chloroform	4.510	83	443629	17.741	ppbV	99
40) Tetrahydrofuran	4.697	42	409227	17.354	ppbV	92
41) 2,2-dichloropropane	4.523	77	359978	19.167	ppbV	92
42) 1,2-dichloroethane	4.863	62	243483	17.208	ppbV	95
44) hexane	4.470	57	480252	17.704	ppbV	96
45) diisopropyl ether	4.463	87	302175	19.043	ppbV	95
46) tert-butyl ethyl ether	4.723	59	900664	18.897	ppbV	96
48) 1,1,1-trichloroethane	4.990	97	379504	21.199	ppbV	96
49) 1,1-dichloropropene	5.143	75	416131	20.168	ppbV	91
50) benzene	5.210	78	1033046	19.552	ppbV	100
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	342052	20.477	ppbV	99
53) cyclohexane	5.343	56	545611	17.852	ppbV	97
54) tert-amyl methyl ether	5.483	73	904267	21.191	ppbV	96
55) dibromomethane	5.583	93	242960	19.938	ppbV	97
56) 1,2-dichloropropane	5.597	63	338732	19.632	ppbV	97
57) bromodichloromethane	5.690	83	445938	19.913	ppbV	100
58) 1,4-dioxane	5.697	88	234497	20.479	ppbV	93
59) trichloroethene	5.710	130	411819	20.189	ppbV	99
60) 2,2,4-trimethylpentane	5.723	57	1549103	18.734	ppbV #	97
61) methyl methacrylate	5.790	41	348763	20.011	ppbV	86
62) heptane	5.843	43	621452	19.025	ppbV	98
63) cis-1,3-dichloropropene	6.100	75	502328	21.673	ppbV #	89
64) 4-methyl-2-pentanone	6.113	43	686857	19.658	ppbV	98
65) trans-1,3-dichloropropene	6.340	75	411144	22.223	ppbV	92
66) 1,1,2-trichloroethane	6.420	97	370073	21.393	ppbV	91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221895.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	1138105	19.574	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	513898	21.152	ppbV	91
72) 2-hexanone	6.653	43	679007	20.486	ppbV	97
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	456922	21.433	ppbV	98
75) 1,2-dibromoethane	6.853	107	512550	21.442	ppbV	99
76) butyl acetate	6.940	73	174145	23.665	ppbV	80
77) octane	6.987	85	470516	19.499	ppbV	94
78) tetrachloroethene	7.060	166	445760	19.313	ppbV	96
79) 1,1,1,2-tetrachloroethane	7.353	131	347042	20.354	ppbV	99
80) chlorobenzene	7.367	112	885218	19.941	ppbV	100
81) ethylbenzene	7.533	91	1395497	19.932	ppbV	94
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	2102027	38.417	ppbV	95
84) bromoform	7.653	173	376020	20.758	ppbV	99
85) styrene	7.780	104	996709	20.999	ppbV	99
86) 1,1,2,2-tetrachloroethane	7.827	83	707972	19.586	ppbV	100
87) o-xylene	7.833	91	1002402	18.858	ppbV	94
88) 1,2,3-trichloropropane	7.887	75	605862	22.056	ppbV #	93
89) nonane	7.927	43	828344	19.124	ppbV	100
91) isopropylbenzene	8.107	105	1435163	20.192	ppbV	100
92) bromobenzene	8.160	77	788286	20.869	ppbV	88
93) 2-chlorotoluene	8.347	126	456509M6	20.350	ppbV	
94) n-propylbenzene	8.360	120	530026	20.180	ppbV	75
95) 4-chlorotoluene	8.380	126	456436	21.004	ppbV	92
96) 4-ethyl toluene	8.433	105	1509228	20.308	ppbV	100
97) 1,3,5-trimethylbenzene	8.467	105	1300783	20.436	ppbV	100
98) tert-butylbenzene	8.677	119	1162983	17.774	ppbV	95
99) 1,2,4-trimethylbenzene	8.677	105	1114444	18.653	ppbV	99
100) decane	8.723	57	1002406	19.085	ppbV	98
101) Benzyl Chloride	8.750	91	829127	23.375	ppbV	96
102) 1,3-dichlorobenzene	8.763	146	879934	20.152	ppbV	98
103) 1,4-dichlorobenzene	8.797	146	844091	20.628	ppbV	99
104) sec-butylbenzene	8.817	105	1771654	20.202	ppbV	98
105) 1,2,3-trimethylbenzene	8.897	105	1004574	18.545	ppbV	99
106) p-isopropyltoluene	8.897	119	1366196	17.549	ppbV	94
107) 1,2-dichlorobenzene	8.970	146	842454	20.678	ppbV	98
108) n-butylbenzene	9.110	91	1309434	19.533	ppbV	95
109) indan	9.003	117	1288001	19.508	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221895.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:24 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

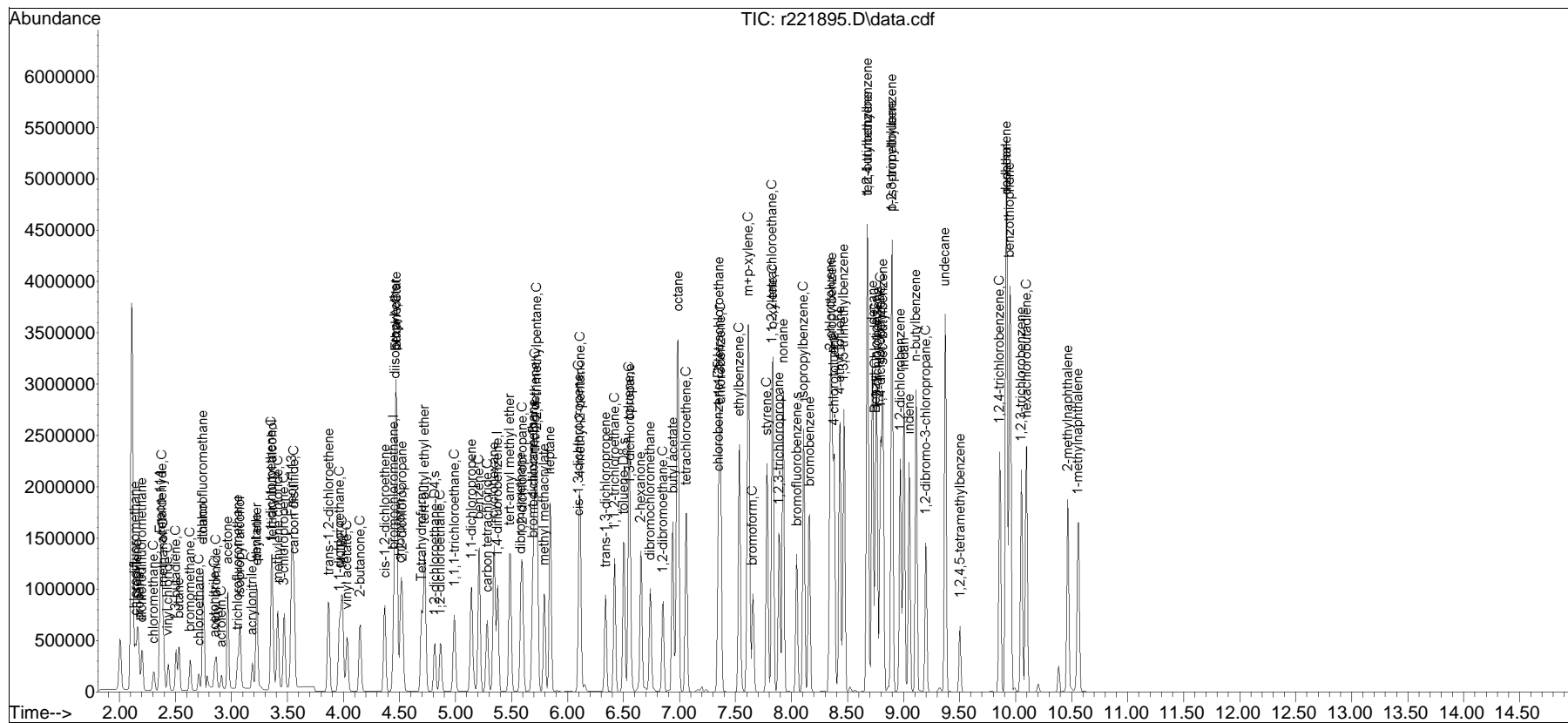
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	938275	20.630	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.197	75	281140	20.858	ppbV	96
112) undecane	9.370	57	1078537	18.937	ppbV	95
113) 1,2,4,5-tetramethylben...	9.503	119	267540	20.241	ppbV	98
114) dodecane	9.918	57	945261	17.362	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	671423	19.022	ppbV	97
116) naphthalene	9.918	128	1533540	17.670	ppbV	100
117) 1,2,3-trichlorobenzene	10.053	180	598531	19.385	ppbV	98
118) benzothiophene	9.947	134	2816316	18.616	ppbV	98
119) hexachlorobutadiene	10.098	225	449295	16.093	ppbV	98
120) 2-methylnaphthalene	10.465	142	810647	21.720	ppbV	96
121) 1-methylnaphthalene	10.555	142	807496	21.594	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221895.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

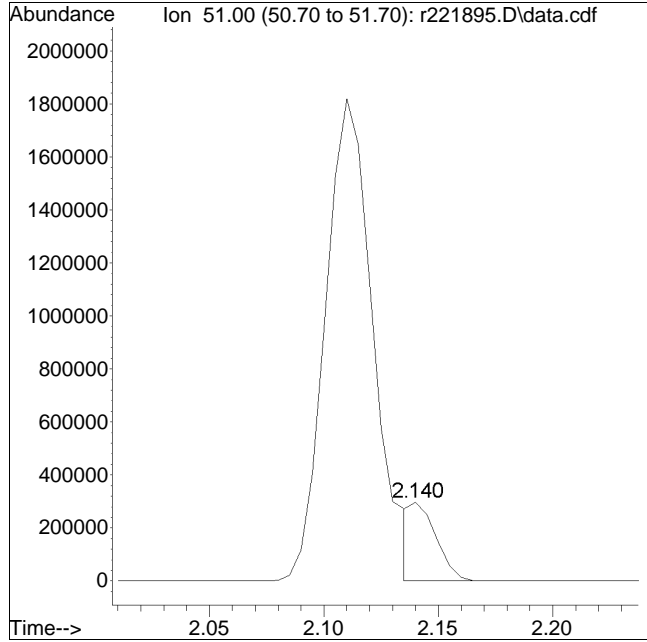
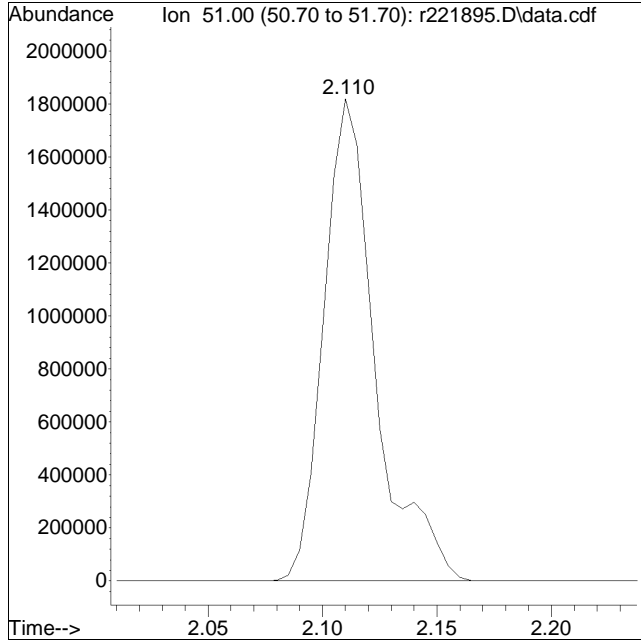
Quant Time: Nov 30 12:37:24 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221895.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 2857806

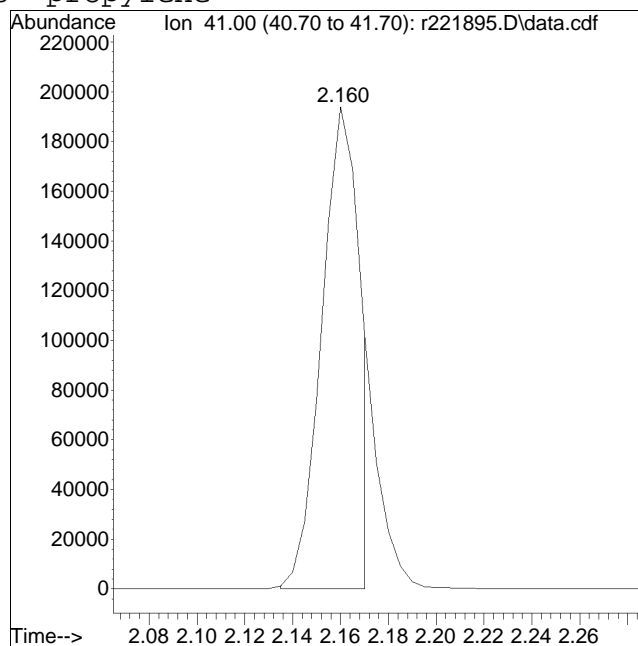
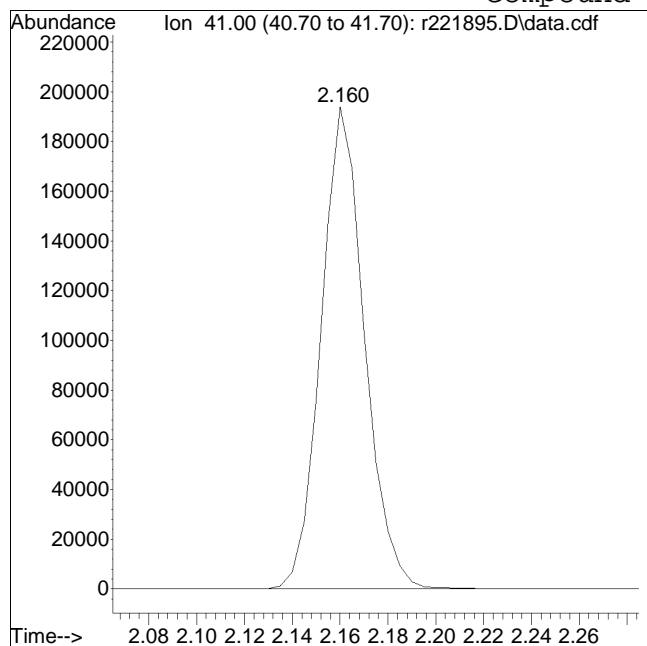
Manual Peak Response = 229339 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221895.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 244272

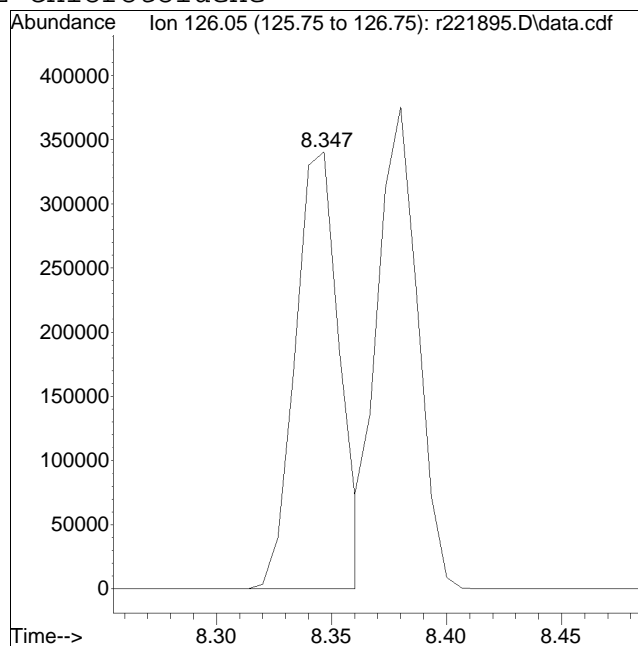
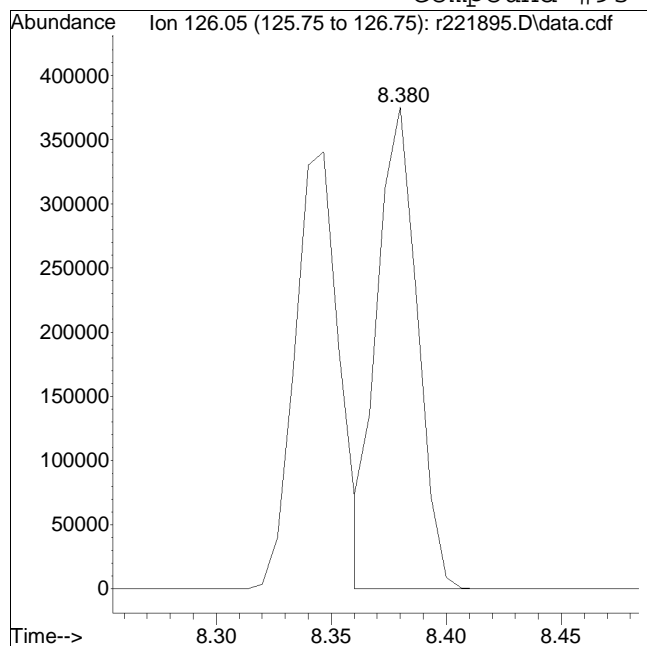
Manual Peak Response = 217243 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221895.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:37 pm

Compound #93: 2-chlorotoluene



Original Peak Response = 456436

Manual Peak Response = 456509 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221896.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	193896	10.000	ppbV	0.01
Standard Area = 192875			Recovery =	100.53%		
43) 1,4-difluorobenzene	5.377	114	715415	10.000	ppbV	0.01
Standard Area = 676282			Recovery =	105.79%		
67) chlorobenzene-D5	7.347	54	61259	10.000	ppbV #	0.00
Standard Area = 69834			Recovery =	87.72%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	179428	9.602	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	96.02%		
69) toluene-D8	6.507	98	824466	12.045	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	120.45%		
90) bromofluorobenzene	8.047	95	478669	11.762	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	117.62%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	2.135	51	564993M6	37.059	ppbV	
3) propylene	2.155	41	513345M6	36.116	ppbV	
4) propane	2.170	29	353667	38.836	ppbV	97
5) dichlorodifluoromethane	2.200	85	651117	37.626	ppbV	100
6) chloromethane	2.300	50	400829	45.756	ppbV	99
7) Freon-114	2.360	85	879179	35.906	ppbV	97
8) methanol	2.390	31	748863	206.661	ppbV #	85
9) vinyl chloride	2.435	62	480959	38.188	ppbV	99
10) 1,3-butadiene	2.505	54	361311	40.535	ppbV	82
11) butane	2.530	43	567843	33.493	ppbV	97
12) acetaldehyde	2.375	29	856248	178.277	ppbV	98
13) bromomethane	2.630	94	315643	37.573	ppbV	98
14) chloroethane	2.710	64	184327	35.280	ppbV	99
15) ethanol	2.745	31	689121	167.162	ppbV	86
16) dichlorofluoromethane	2.750	67	484132	28.243	ppbV	98
17) vinyl bromide	2.866	106	296069	37.223	ppbV	99
18) acrolein	2.911	56	156021	41.984	ppbV #	93
19) acetone	2.968	43	1332563	149.510	ppbV	89
20) acetonitrile	2.851	41	270987	31.951	ppbV	97
21) trichlorofluoromethane	3.058	101	355779	34.876	ppbV	98
22) isopropyl alcohol	3.079	45	1137795	80.784	ppbV	98
23) acrylonitrile	3.187	53	297421	41.159	ppbV	99
24) pentane	3.223	43	558813	30.653	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221896.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.229	31	362223	36.352	ppbV	94
26) 1,1-dichloroethene	3.360	61	645663	35.057	ppbV #	85
27) tertiary butyl alcohol	3.365	59	1065385	42.427	ppbV	98
28) methylene chloride	3.415	49	711580	45.200	ppbV	94
29) 3-chloropropene	3.470	41	980349	40.941	ppbV #	90
30) carbon disulfide	3.560	76	1911797	43.307	ppbV	97
31) Freon 113	3.540	101	998383	40.328	ppbV	97
32) trans-1,2-dichloroethene	3.870	61	876530	39.944	ppbV	89
33) 1,1-dichloroethane	3.963	63	1147118	41.713	ppbV	97
34) MTBE	3.990	73	1674120	43.462	ppbV	96
35) vinyl acetate	4.030	43	1430514	51.783	ppbV	98
36) 2-butanone	4.150	43	1533015	47.088	ppbV	93
37) cis-1,2-dichloroethene	4.370	61	796742	39.518	ppbV	85
38) Ethyl Acetate	4.470	61	210952	39.199	ppbV	60
39) chloroform	4.510	83	927370	38.134	ppbV	99
40) Tetrahydrofuran	4.697	42	934879	40.765	ppbV	88
41) 2,2-dichloropropane	4.523	77	741677	40.606	ppbV #	89
42) 1,2-dichloroethane	4.870	62	500159	36.346	ppbV #	88
44) hexane	4.477	57	982602	35.763	ppbV #	68
45) diisopropyl ether	4.463	87	638159	39.708	ppbV	94
46) tert-butyl ethyl ether	4.723	59	1918977	39.753	ppbV	93
48) 1,1,1-trichloroethane	4.990	97	783323	43.203	ppbV	96
49) 1,1-dichloropropene	5.143	75	916376	43.851	ppbV #	91
50) benzene	5.210	78	2327516	43.494	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	693055	40.964	ppbV	100
53) cyclohexane	5.343	56	1231162	39.773	ppbV	95
54) tert-amyl methyl ether	5.483	73	1989583	46.035	ppbV	94
55) dibromomethane	5.583	93	489044	39.625	ppbV	99
56) 1,2-dichloropropane	5.597	63	718820	41.134	ppbV #	97
57) bromodichloromethane	5.690	83	888669	39.181	ppbV	99
58) 1,4-dioxane	5.697	88	491113	42.348	ppbV	91
59) trichloroethene	5.710	130	825408	39.952	ppbV	100
60) 2,2,4-trimethylpentane	5.730	57	3172922	37.885	ppbV	96
61) methyl methacrylate	5.797	41	776901	44.011	ppbV #	80
62) heptane	5.843	43	1299458	39.278	ppbV #	96
63) cis-1,3-dichloropropene	6.100	75	1059398	45.129	ppbV #	88
64) 4-methyl-2-pentanone	6.113	43	1403563	39.661	ppbV #	96
65) trans-1,3-dichloropropene	6.340	75	903820	48.235	ppbV #	91
66) 1,1,2-trichloroethane	6.420	97	805135	45.955	ppbV #	90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221896.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	2286808	44.091	ppbV	99
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	1046517	48.288	ppbV	87
72) 2-hexanone	6.653	43	1440263	48.713	ppbV #	97
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	916563	48.197	ppbV	99
75) 1,2-dibromoethane	6.853	107	1057803	49.607	ppbV	96
76) butyl acetate	6.940	73	395922	60.314	ppbV	69
77) octane	6.987	85	910645	42.305	ppbV	89
78) tetrachloroethene	7.060	166	872970	42.401	ppbV	97
79) 1,1,1,2-tetrachloroethane	7.353	131	650223	42.751	ppbV	99
80) chlorobenzene	7.367	112	1704380	43.040	ppbV	99
81) ethylbenzene	7.533	91	2761807	44.221	ppbV	91
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.613	91	3877986	79.453	ppbV	89
84) bromoform	7.653	173	715963	44.309	ppbV	99
85) styrene	7.780	104	2032391	48.001	ppbV	97
86) 1,1,2,2-tetrachloroethane	7.827	83	1335060	41.405	ppbV	100
87) o-xylene	7.833	91	1787143	37.691	ppbV	88
88) 1,2,3-trichloropropane	7.887	75	1258613	51.364	ppbV #	93
89) nonane	7.927	43	1584352	41.006	ppbV	95
91) isopropylbenzene	8.107	105	2789453	43.995	ppbV	96
92) bromobenzene	8.160	77	1533566	45.512	ppbV	93
93) 2-chlorotoluene	8.347	126	888940	44.424	ppbV	76
94) n-propylbenzene	8.360	120	1000248	42.692	ppbV	68
95) 4-chlorotoluene	8.380	126	933233	48.142	ppbV	82
96) 4-ethyl toluene	8.433	105	3057301	46.117	ppbV	98
97) 1,3,5-trimethylbenzene	8.467	105	2275084	40.069	ppbV	97
98) tert-butylbenzene	8.677	119	1995619	34.191	ppbV	92
99) 1,2,4-trimethylbenzene	8.683	105	1907185	35.785	ppbV	90
100) decane	8.723	57	1914437	40.861	ppbV	96
101) Benzyl Chloride	8.750	91	1672751	52.867	ppbV	93
102) 1,3-dichlorobenzene	8.763	146	1591002	40.846	ppbV	99
103) 1,4-dichlorobenzene	8.797	146	1583374	43.378	ppbV	99
104) sec-butylbenzene	8.817	105	3252112	41.571	ppbV	95
105) 1,2,3-trimethylbenzene	8.897	105	1730528	35.812	ppbV	98
106) p-isopropyltoluene	8.897	119	2365830	34.068	ppbV	92
107) 1,2-dichlorobenzene	8.970	146	1602364	44.091	ppbV	97
108) n-butylbenzene	9.110	91	2458854	41.117	ppbV	92
109) indan	9.003	117	2383957	40.477	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221896.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:33 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

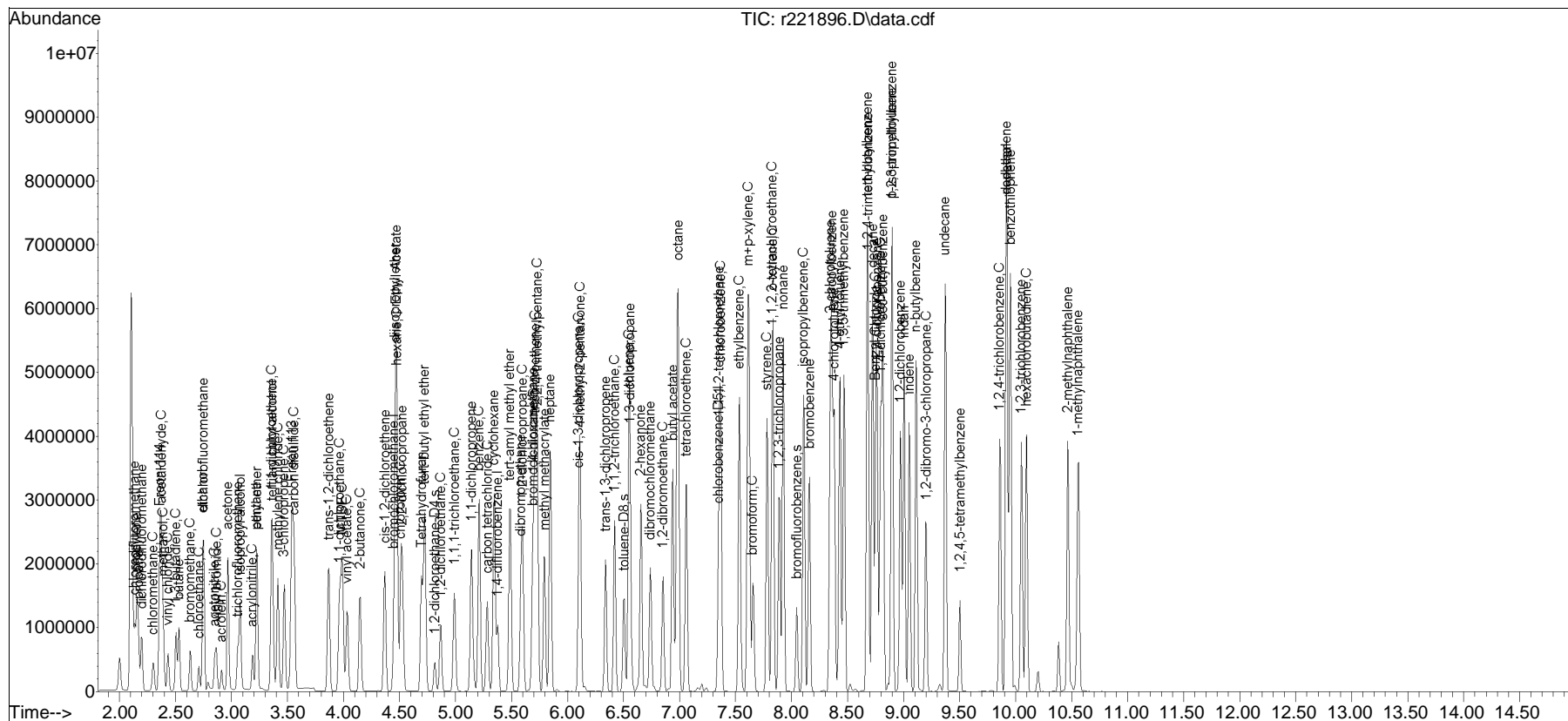
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	1827405	45.042	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.203	75	533190	44.346	ppbV	93
112) undecane	9.370	57	2004888	39.463	ppbV	94
113) 1,2,4,5-tetramethylben...	9.503	119	603838	51.212	ppbV	94
114) dodecane	9.918	57	1580032	32.534	ppbV	97
115) 1,2,4-trichlorobenzene	9.857	180	1203435	38.220	ppbV	98
116) naphthalene	9.918	128	2612588	33.747	ppbV	98
117) 1,2,3-trichlorobenzene	10.053	180	1117523	40.575	ppbV	98
118) benzothiophene	9.955	134	4557516	33.771	ppbV	98
119) hexachlorobutadiene	10.098	225	749646	30.101	ppbV	96
120) 2-methylnaphthalene	10.465	142	1759475	52.848	ppbV	94
121) 1-methylnaphthalene	10.555	142	1799273	53.940	ppbV	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221896.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

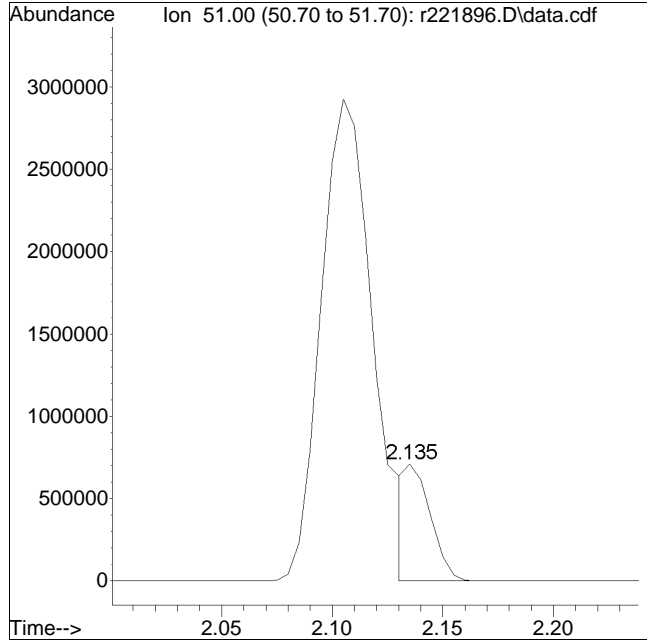
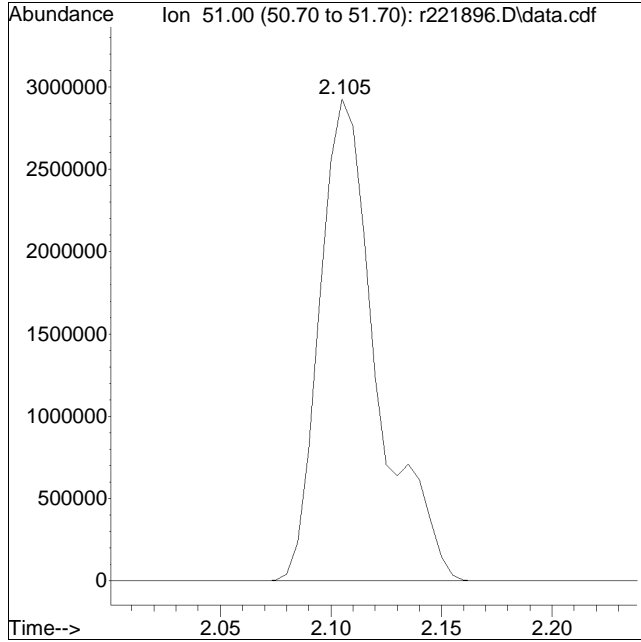
Quant Time: Nov 30 12:37:33 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221896.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 5282460

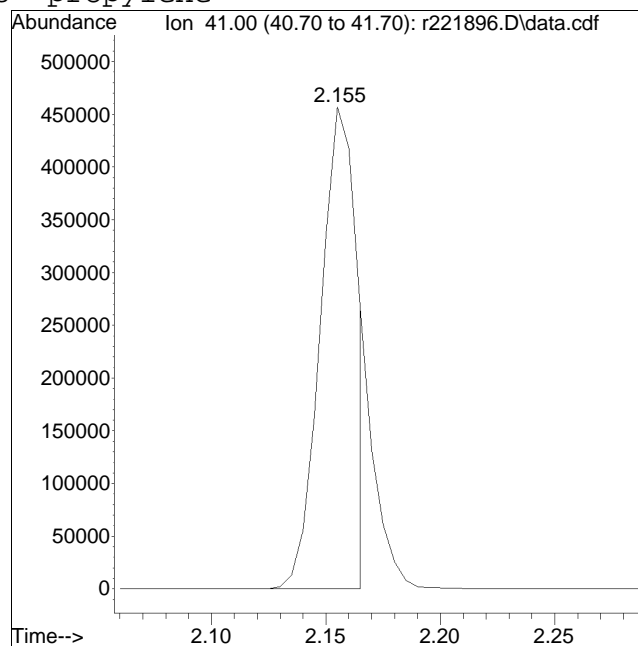
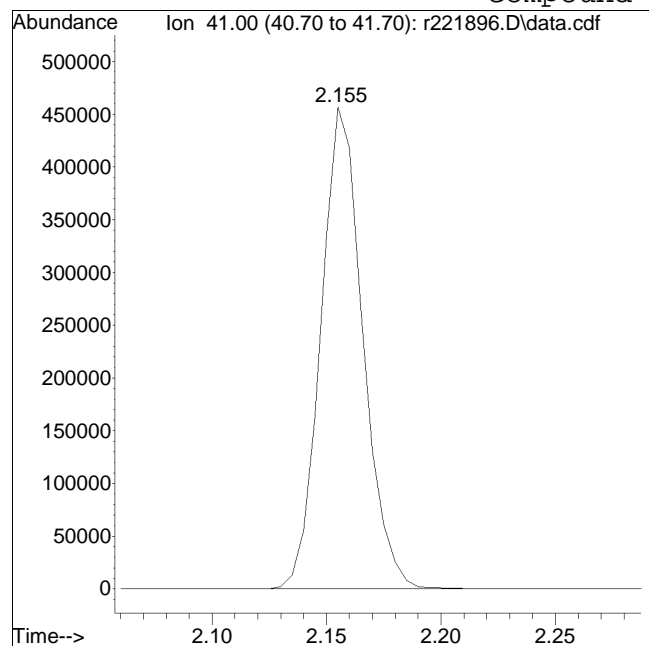
Manual Peak Response = 564993 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221896.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 583147

Manual Peak Response = 513345 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221897.D
 Acq On : 30 Nov 2023 2:24 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.450	49	178654	10.000	ppbV	0.01
Standard Area = 192875			Recovery =	92.63%		
43) 1,4-difluorobenzene	5.377	114	680450	10.000	ppbV	0.01
Standard Area = 676282			Recovery =	100.62%		
67) chlorobenzene-D5	7.347	54	53634	10.000	ppbV #	0.00
Standard Area = 69834			Recovery =	76.80%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	4.817	65	141257	7.948	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	79.48%		
69) toluene-D8	6.507	98	782182	13.052	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery =	130.52%#		
90) bromofluorobenzene	8.047	95	429497	12.054	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	120.54%		
Target Compounds						
2) chlorodifluoromethane	2.135	51	1166704M6	83.056	ppbV	
3) propylene	2.160	41	966372M6	73.788	ppbV	
4) propane	2.170	29	639462	76.210	ppbV	96
5) dichlorodifluoromethane	2.200	85	998635	62.632	ppbV	100
6) chloromethane	2.305	50	731497	90.627	ppbV	99
7) Freon-114	2.365	85	1339043	59.353	ppbV	99
8) methanol	2.390	31	1305493	391.009	ppbV #	88
9) vinyl chloride	2.435	62	807253	69.564	ppbV	99
10) 1,3-butadiene	2.505	54	619084	75.380	ppbV	85
11) butane	2.535	43	984863	63.046	ppbV	98
12) acetaldehyde	2.375	29	1470306	332.246	ppbV	96
13) bromomethane	2.635	94	507772	65.601	ppbV	100
14) chloroethane	2.710	64	320494	66.575	ppbV	100
15) ethanol	2.755	31	1079355	284.160	ppbV #	80
16) dichlorofluoromethane	2.750	67	717018	45.398	ppbV #	98
17) vinyl bromide	2.866	106	473120	64.558	ppbV	99
18) acrolein	2.914	56	273188	79.785	ppbV #	94
19) acetone	2.971	43	2379492	289.749	ppbV	95
20) acetonitrile	2.851	41	496561	63.542	ppbV	97
21) trichlorofluoromethane	3.058	101	601728	64.018	ppbV	99
22) isopropyl alcohol	3.082	45	1946800	150.017	ppbV	98
23) acrylonitrile	3.190	53	503923	75.685	ppbV	99
24) pentane	3.226	43	948323	56.457	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221897.D
 Acq On : 30 Nov 2023 2:24 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	3.229	31	632796	68.924	ppbV	91
26) 1,1-dichloroethene	3.360	61	996620	58.730	ppbV #	82
27) tertiary butyl alcohol	3.370	59	1681787	72.688	ppbV	98
28) methylene chloride	3.415	49	1184906	81.687	ppbV	96
29) 3-chloropropene	3.475	41	1632345	73.985	ppbV #	87
30) carbon disulfide	3.560	76	2989098	73.487	ppbV	95
31) Freon 113	3.540	101	1513843	66.366	ppbV	97
32) trans-1,2-dichloroethene	3.870	61	1366447	67.583	ppbV #	83
33) 1,1-dichloroethane	3.963	63	1814058	71.593	ppbV	97
34) MTBE	3.990	73	2634449	74.229	ppbV	96
35) vinyl acetate	4.037	43	2429200	95.437	ppbV	96
36) 2-butanone	4.150	43	2493724	83.133	ppbV #	88
37) cis-1,2-dichloroethene	4.370	61	1249687	67.272	ppbV #	79
38) Ethyl Acetate	4.470	61	320041	64.544	ppbV	57
39) chloroform	4.517	83	1390868	62.072	ppbV	99
40) Tetrahydrofuran	4.697	42	1527284	72.279	ppbV #	83
41) 2,2-dichloropropane	4.530	77	1097312	65.203	ppbV #	89
42) 1,2-dichloroethane	4.870	62	723669	57.075	ppbV #	82
44) hexane	4.477	57	1456460	55.734	ppbV #	71
45) diisopropyl ether	4.463	87	954566	62.448	ppbV	87
46) tert-butyl ethyl ether	4.723	59	2931481	63.848	ppbV	90
48) 1,1,1-trichloroethane	4.990	97	1277812	74.097	ppbV #	96
49) 1,1-dichloropropene	5.143	75	1451942	73.050	ppbV #	88
50) benzene	5.210	78	3746956	73.616	ppbV	99
51) thiophene	0.000		0	N.D.	d	
52) carbon tetrachloride	5.283	117	1025561	63.732	ppbV	99
53) cyclohexane	5.343	56	2001883	67.994	ppbV	93
54) tert-amyl methyl ether	5.490	73	3186090	77.507	ppbV	93
55) dibromomethane	5.583	93	721565	61.470	ppbV	98
56) 1,2-dichloropropane	5.603	63	1093938	65.817	ppbV #	97
57) bromodichloromethane	5.690	83	1355394	62.830	ppbV	100
58) 1,4-dioxane	5.697	88	720837	65.350	ppbV	90
59) trichloroethene	5.710	130	1184271	60.267	ppbV	100
60) 2,2,4-trimethylpentane	5.730	57	4689226	58.867	ppbV #	95
61) methyl methacrylate	5.797	41	1232078	73.383	ppbV #	72
62) heptane	5.850	43	1986806	63.140	ppbV #	94
63) cis-1,3-dichloropropene	6.107	75	1636450	73.292	ppbV #	91
64) 4-methyl-2-pentanone	6.113	43	2103662	62.499	ppbV #	92
65) trans-1,3-dichloropropene	6.340	75	1434807	80.507	ppbV #	90
66) 1,1,2-trichloroethane	6.420	97	1274240	76.467	ppbV #	88

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221897.D
 Acq On : 30 Nov 2023 2:24 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	6.547	91	3294240	72.544	ppbV	100
70) 2-methylthiophene	0.000		0	N.D.	d	
71) 1,3-dichloropropane	6.560	76	1568422	82.659	ppbV	87
72) 2-hexanone	6.660	43	2254058	87.076	ppbV #	95
73) 3-methylthiophene	0.000		0	N.D.	d	
74) dibromochloromethane	6.740	129	1351689	81.183	ppbV	97
75) 1,2-dibromoethane	6.853	107	1606653	86.058	ppbV	96
76) butyl acetate	6.940	73	646438	112.477	ppbV #	61
77) octane	6.993	85	1324031	70.254	ppbV	90
78) tetrachloroethene	7.060	166	1250821	69.391	ppbV	97
79) 1,1,1,2-tetrachloroethane	7.360	131	932827	70.051	ppbV	100
80) chlorobenzene	7.373	112	2415472	69.668	ppbV	99
81) ethylbenzene	7.533	91	4074558	74.516	ppbV	88
82) 2-ethylthiophene	0.000		0	N.D.	d	
83) m+p-xylene	7.620	91	5290610	123.805	ppbV	89
84) bromoform	7.660	173	1047482	74.041	ppbV	98
85) styrene	7.787	104	3092797	83.431	ppbV	97
86) 1,1,2,2-tetrachloroethane	7.833	83	1904837	67.475	ppbV	100
87) o-xylene	7.840	91	2518030	60.655	ppbV	89
88) 1,2,3-trichloropropane	7.893	75	1970138	91.832	ppbV	92
89) nonane	7.927	43	2355219	69.623	ppbV #	94
91) isopropylbenzene	8.113	105	4073952	73.389	ppbV	96
92) bromobenzene	8.160	77	2302020	78.030	ppbV	95
93) 2-chlorotoluene	8.347	126	1271372	72.568	ppbV	97
94) n-propylbenzene	8.360	120	1410936	68.783	ppbV	66
95) 4-chlorotoluene	8.380	126	1408160	82.969	ppbV	85
96) 4-ethyl toluene	8.433	105	4362016	75.152	ppbV	97
97) 1,3,5-trimethylbenzene	8.473	105	3369073	67.772	ppbV	98
98) tert-butylbenzene	8.677	119	2843666	55.648	ppbV	93
99) 1,2,4-trimethylbenzene	8.683	105	2670310	57.227	ppbV	94
100) decane	8.723	57	2871078	69.992	ppbV #	95
101) Benzyl Chloride	8.750	91	2574658	92.940	ppbV	93
102) 1,3-dichlorobenzene	8.763	146	2437844	71.486	ppbV	99
103) 1,4-dichlorobenzene	8.797	146	2061461	64.504	ppbV	99
104) sec-butylbenzene	8.817	105	4654698	67.959	ppbV	93
105) 1,2,3-trimethylbenzene	8.903	105	2506287	59.240	ppbV	94
106) p-isopropyltoluene	8.897	119	3323795	54.667	ppbV	92
107) 1,2-dichlorobenzene	8.977	146	2379636	74.787	ppbV	99
108) n-butylbenzene	9.117	91	3661348	69.930	ppbV	96
109) indan	9.003	117	3462069	67.139	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221897.D
 Acq On : 30 Nov 2023 2:24 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-LLSTD100
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:37:41 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:56:35 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default - All compounds listed

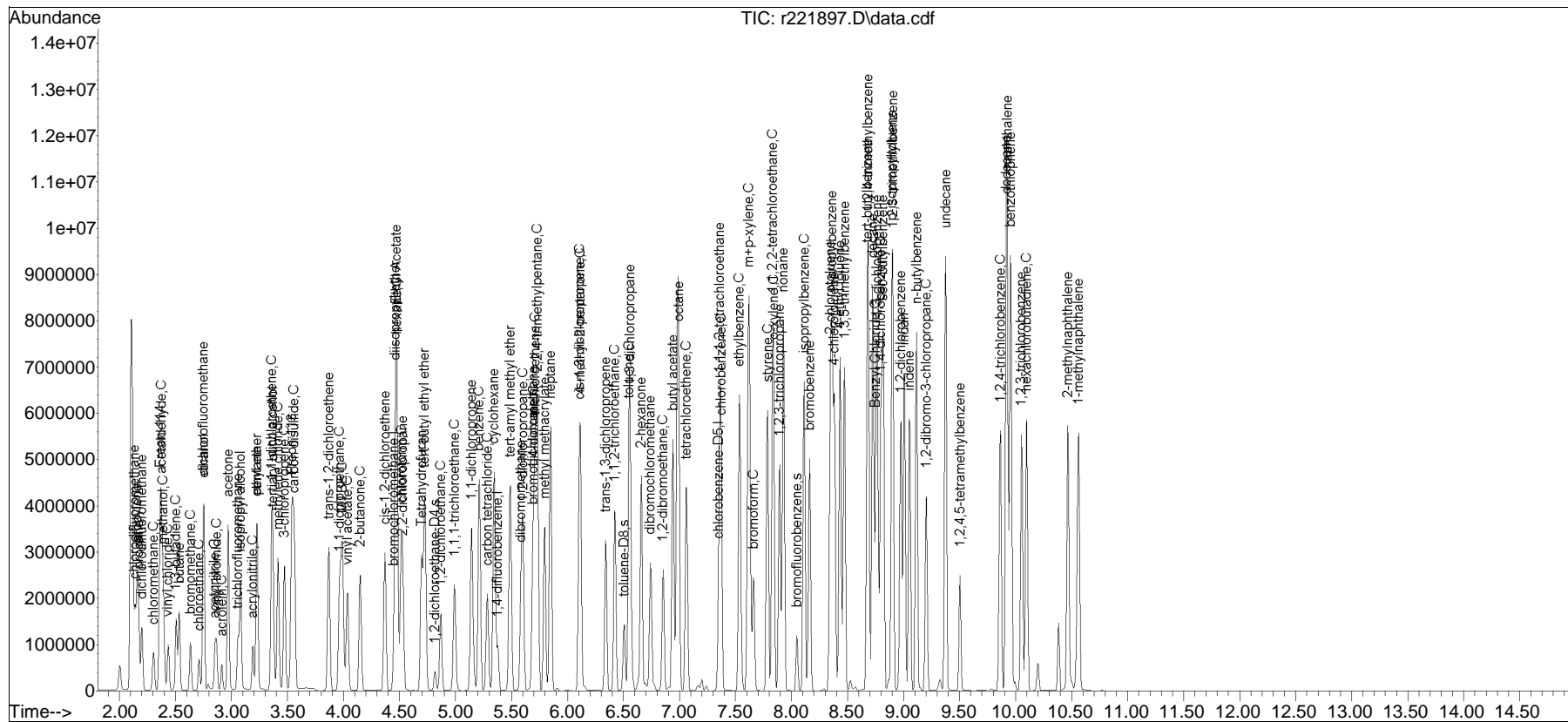
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	9.050	115	2717183	76.495	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.203	75	857050	81.415	ppbV	91
112) undecane	9.377	57	3000195	67.449	ppbV	96
113) 1,2,4,5-tetramethylben...	9.503	119	1056928	102.383	ppbV	93
114) dodecane	9.918	57	2349693	55.260	ppbV	100
115) 1,2,4-trichlorobenzene	9.865	180	1752631	63.575	ppbV	92
116) naphthalene	9.925	128	3759409	55.464	ppbV #	95
117) 1,2,3-trichlorobenzene	10.053	180	1617882	67.093	ppbV	96
118) benzothiophene	9.955	134	6384033	54.031	ppbV #	96
119) hexachlorobutadiene	10.098	225	1084843	49.754	ppbV #	95
120) 2-methylnaphthalene	10.465	142	2615873	89.742	ppbV	94
121) 1-methylnaphthalene	10.563	142	2805004	96.046	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221897.D
Acq On : 30 Nov 2023 2:24 AM
Operator : AIRLAB22:RAY
Sample : ITO15-LLSTD100
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

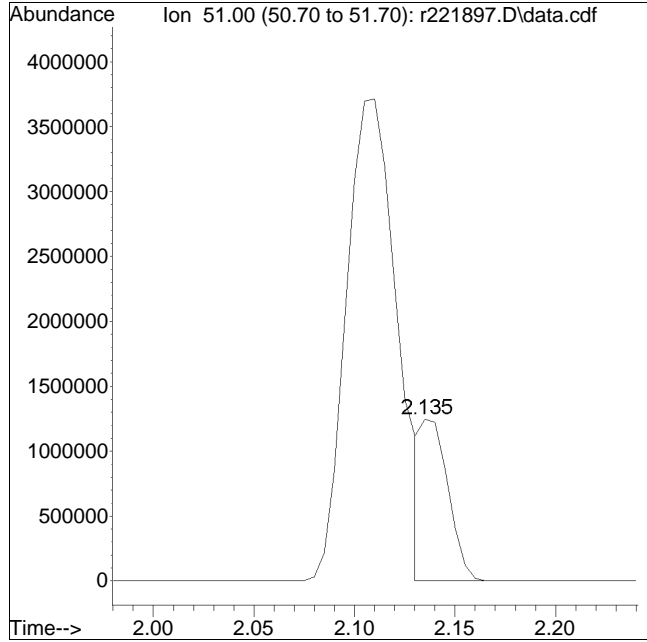
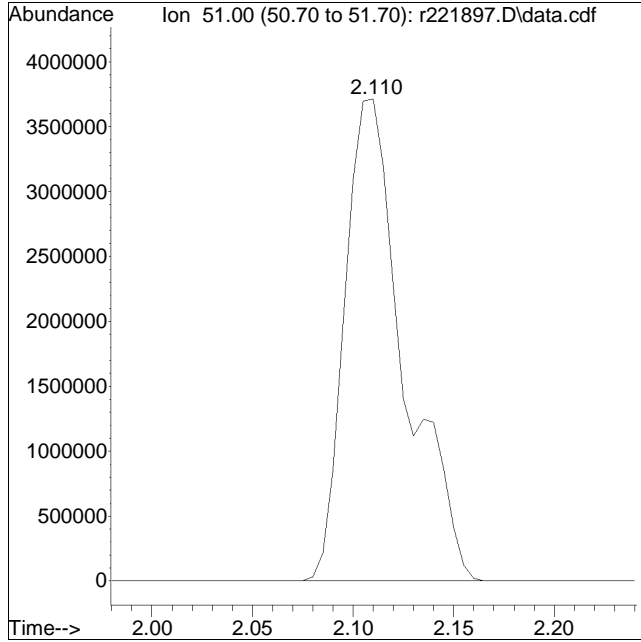
Quant Time: Nov 30 12:37:41 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:56:35 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221897.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 4 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 11/30/2023 12:37 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 7637441

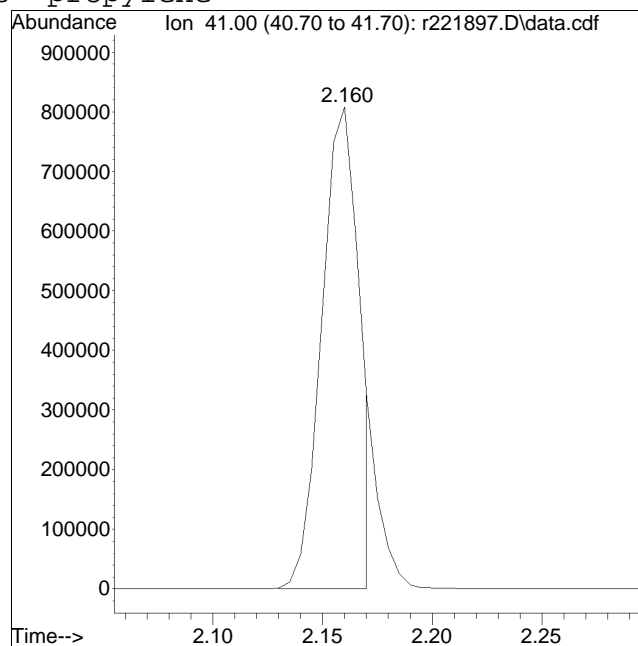
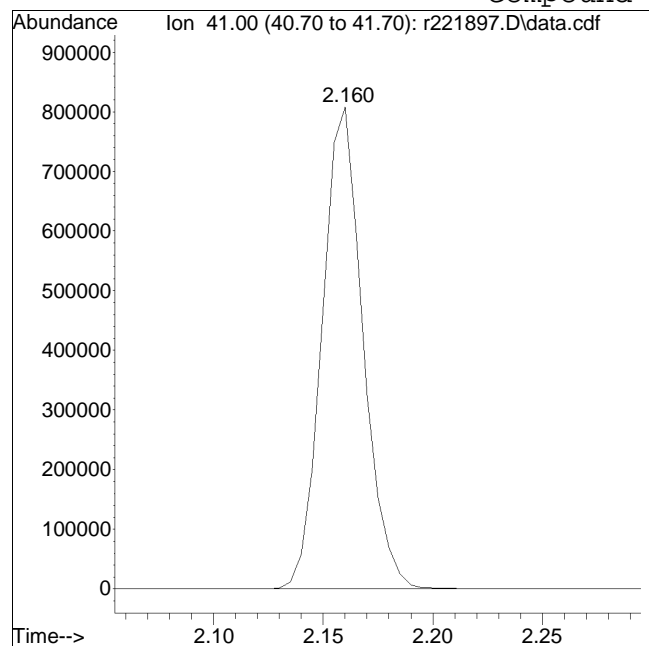
Manual Peak Response = 1166704 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221897.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 4 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 11/30/2023 12:37 pm

Compound #3: propylene



Original Peak Response = 1045397

Manual Peak Response = 966372 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	85	0.00
2	chlorodifluoromethane	0.667	0.893	-33.9#	104	0.00
3	propylene	0.539	0.653	-21.2	111	0.00
4	propane	0.434	0.384	11.5	80	0.00
5	dichlorodifluoromethane	0.805	0.636	21.0	70	0.00
6 C	chloromethane	0.437	0.422	3.4	84	0.00
7	Freon-114	1.167	1.136	2.7	80	0.00
8 C	methanol	0.174	0.150	13.8	73	0.00
9 C	vinyl chloride	0.558	0.480	14.0	72	0.00
10 C	1,3-butadiene	0.412	0.390	5.3	81	0.00
11	butane	0.666	0.560	15.9	72	0.00
13 C	bromomethane	0.395	0.329	16.7	70	0.00
14 C	chloroethane	0.214	0.190	11.2	75	0.00
15	ethanol	0.161	0.157	2.5	79	0.00
16	dichlorofluoromethane	0.693	0.523	24.5	68	0.00
17 C	vinyl bromide	0.359	0.293	18.4	69	0.00
18 C	acrolein	0.173	0.133	23.1	64	0.00
19	acetone	0.322	0.318	1.2	87	0.00
20 C	acetonitrile	0.310	0.267	13.9	75	0.00
21	trichlorofluoromethane	0.430	0.361	16.0	71	0.00
22	isopropyl alcohol	0.533	0.436	18.2	72	0.00
23 C	acrylonitrile	0.339	0.275	18.9	70	0.00
24	pentane	0.667	0.553	17.1	71	0.00
25	ethyl ether	0.435	0.361	17.0	71	0.00
26 C	1,1-dichloroethene	0.827	0.825	0.2	81	0.00
27	tertiary butyl alcohol	1.202	1.070	11.0	72	0.00
28 C	methylene chloride	0.793	0.806	-1.6	86	0.00
29 C	3-chloropropene	1.074	1.082	-0.7	86	0.00
30 C	carbon disulfide	2.198	2.151	2.1	83	0.00
31	Freon 113	1.205	1.223	-1.5	84	0.00
32	trans-1,2-dichloroethene	1.022	0.930	9.0	77	0.00
33 C	1,1-dichloroethane	1.305	1.214	7.0	77	0.00
34 C	MTBE	1.895	1.777	6.2	79	0.00
35 C	vinyl acetate	1.461	1.164	20.3	68	0.00
36 C	2-butanone	1.624	1.408	13.3	71	0.00
37	cis-1,2-dichloroethene	0.930	0.862	7.3	77	0.00
38	Ethyl Acetate	0.253	0.259	-2.4	84	0.00
39 C	chloroform	1.147	0.995	13.3	71	0.00
40	Tetrahydrofuran	1.033	0.946	8.4	78	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.913	0.682	25.3	60#	0.00
42 C	1,2-dichloroethane	0.652	0.440	32.5#	57#	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	86	0.00
44 C	hexane	0.354	0.357	-0.8	84	0.00
45	diisopropyl ether	0.222	0.205	7.7	75	0.00
46	tert-butyl ethyl ether	0.655	0.543	17.1	68	0.00
47 s	1,2-dichloroethane-D4	0.273	0.201	26.4	60#	0.00
48 C	1,1,1-trichloroethane	0.277	0.213	23.1	63	0.00
49	1,1-dichloropropene	0.298	0.272	8.7	75	0.00
50 C	benzene	0.746	0.729	2.3	81	0.00
52 C	carbon tetrachloride	0.248	0.190	23.4	62	0.00
53	cyclohexane	0.405	0.405	0.0	87	0.00
54	tert-amyl methyl ether	0.652	0.587	10.0	75	0.00
55	dibromomethane	0.179	0.166	7.3	76	0.00
56 C	1,2-dichloropropane	0.244	0.243	0.4	81	0.00
57	bromodichloromethane	0.324	0.294	9.3	75	0.00
58 C	1,4-dioxane	0.163	0.169	-3.7	87	0.00
59 C	trichloroethene	0.295	0.305	-3.4	83	0.00
60 C	2,2,4-trimethylpentane	1.128	1.153	-2.2	85	0.00
61	methyl methacrylate	0.243	0.226	7.0	75	0.00
62	heptane	0.446	0.439	1.6	82	0.00
63 C	cis-1,3-dichloropropene	0.356	0.347	2.5	79	0.00
64 C	4-methyl-2-pentanone	0.496	0.480	3.2	78	0.00
65	trans-1,3-dichloropropene	0.292	0.253	13.4	72	0.00
66 C	1,1,2-trichloroethane	0.264	0.269	-1.9	84	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
68 C	toluene	8.341	9.334	-11.9	81	0.00
69 s	toluene-D8	11.925	12.947	-8.6	83	0.00
71	1,3-dichloropropane	3.773	3.758	0.4	72	0.00
72	2-hexanone	4.893	4.893	0.0	74	0.00
74	dibromochloromethane	3.317	3.682	-11.0	82	0.00
75 C	1,2-dibromoethane	3.674	4.001	-8.9	80	0.00
76	butyl acetate	1.221	1.239	-1.5	74	0.00
77	octane	3.408	3.691	-8.3	77	0.00
78 C	tetrachloroethene	3.236	3.714	-14.8	82	0.00
79	1,1,1,2-tetrachloroethane	2.579	2.576	0.1	71	0.00
80 C	chlorobenzene	6.452	7.289	-13.0	81	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CT015-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	10.089	10.965	-8.7	78	0.00
83 C	m+p-xylene	7.856	8.617	-9.7	77	0.00
84 C	bromoform	2.719	3.111	-14.4	82	0.00
85 C	styrene	7.041	8.086	-14.8	81	0.00
86 C	1,1,2,2-tetrachloroethane	5.266	5.915	-12.3	79	0.00
87 C	o-xylene	7.670	8.460	-10.3	77	0.00
88	1,2,3-trichloropropane	4.388	4.331	1.3	71	0.00
89	nonane	6.152	6.176	-0.4	71	0.00
90 s	bromofluorobenzene	6.922	7.319	-5.7	79	0.00
91 C	isopropylbenzene	10.609	11.356	-7.0	76	0.00
92	bromobenzene	5.784	5.999	-3.7	74	0.00
93	2-chlorotoluene	3.252	3.564	-9.6	78	0.00
94	n-propylbenzene	3.785	4.138	-9.3	75	0.00
95	4-chlorotoluene	3.266	3.408	-4.3	74	0.00
96	4-ethyl toluene	11.333	12.472	-10.1	78	0.00
97	1,3,5-trimethylbenzene	9.277	10.557	-13.8	80	0.00
98	tert-butylbenzene	9.219	9.688	-5.1	73	0.00
99	1,2,4-trimethylbenzene	8.866	9.780	-10.3	77	0.00
100	decane	7.401	7.865	-6.3	74	0.00
101 C	Benzyl Chloride	5.322	6.088	-14.4	76	0.00
102	1,3-dichlorobenzene	6.511	7.581	-16.4	80	0.00
103 C	1,4-dichlorobenzene	6.244	7.051	-12.9	77	0.00
104	sec-butylbenzene	13.163	14.142	-7.4	74	0.00
106	p-isopropyltoluene	11.031	11.448	-3.8	72	0.00
107	1,2-dichlorobenzene	6.119	6.877	-12.4	76	0.00
108	n-butylbenzene	9.879	10.783	-9.2	75	0.00
111 C	1,2-dibromo-3-chloropropane	2.162	2.005	7.3	65	0.00
112	undecane	7.983	8.839	-10.7	74	0.00
114	dodecane	7.434	8.480	-14.1	73	0.00
115 C	1,2,4-trichlorobenzene	4.807	5.382	-12.0	70	0.00
116	naphthalene	11.660	12.372	-6.1	68	0.00
117	1,2,3-trichlorobenzene	4.229	4.704	-11.2	71	0.00
119 C	hexachlorobutadiene	3.689	3.973	-7.7	73	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	4.450	49	163418	10.000	ppbV	0.00	
Standard Area = 192875			Recovery =	84.73%			
43) 1,4-difluorobenzene	5.377	114	579275	10.000	ppbV	0.00	
Standard Area = 676282			Recovery =	85.66%			
67) chlorobenzene-D5	7.347	54	52212	10.000	ppbV	0.00	
Standard Area = 69834			Recovery =	74.77%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	4.817	65	116431	7.355	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	73.55%			
69) toluene-D8	6.500	98	676008	10.857	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	108.57%			
90) bromofluorobenzene	8.047	95	382124	10.573	ppbV	0.00	
Spiked Amount 10.000	Range 70 - 130		Recovery =	105.73%			
Target Compounds							
2) chlorodifluoromethane	2.140	51	145879	13.383	ppbV #	93	
3) propylene	2.160	41	106770M6	12.120	ppbV		
4) propane	2.175	29	62758	8.845	ppbV #	94	
5) dichlorodifluoromethane	2.205	85	103914	7.895	ppbV	99	
6) chloromethane	2.305	50	69035	9.667	ppbV	100	
7) Freon-114	2.365	85	185635	9.737	ppbV	97	
8) methanol	2.390	31	122577	43.037	ppbV #	83	
9) vinyl chloride	2.435	62	78522	8.610	ppbV	99	
10) 1,3-butadiene	2.505	54	63800	9.471	ppbV	96	
11) butane	2.535	43	91448	8.398	ppbV	99	
13) bromomethane	2.630	94	53845	8.344	ppbV	99	
14) chloroethane	2.710	64	31090	8.879	ppbV	99	
15) ethanol	2.745	31	128113	48.809	ppbV	94	
16) dichlorofluoromethane	2.745	67	85435	7.548	ppbV	99	
17) vinyl bromide	2.863	106	47946	8.170	ppbV	98	
18) acrolein	2.911	56	21741	7.709	ppbV	98	
19) acetone	2.968	43	259530	49.363	ppbV	95	
20) acetonitrile	2.848	41	43635	8.625	ppbV	97	
21) trichlorofluoromethane	3.055	101	59017	8.406	ppbV	99	
22) isopropyl alcohol	3.079	45	178307	20.455	ppbV	100	
23) acrylonitrile	3.187	53	44983	8.127	ppbV	98	
24) pentane	3.223	43	90360	8.286	ppbV	97	
25) ethyl ether	3.229	31	58984	8.302	ppbV	95	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	3.355	61	134846	9.982	ppbV	90
27) tertiary butyl alcohol	3.370	59	174800	8.902	ppbV	97
28) methylene chloride	3.415	49	131744	10.170	ppbV	100
29) 3-chloropropene	3.470	41	176823	10.076	ppbV	93
30) carbon disulfide	3.560	76	351548	9.789	ppbV	96
31) Freon 113	3.540	101	199843	10.150	ppbV	99
32) trans-1,2-dichloroethene	3.863	61	151932	9.093	ppbV	86
33) 1,1-dichloroethane	3.963	63	198466	9.307	ppbV	99
34) MTBE	3.990	73	290320	9.373	ppbV	96
35) vinyl acetate	4.030	43	190160	7.963	ppbV	96
36) 2-butanone	4.150	43	230142	8.674	ppbV	94
37) cis-1,2-dichloroethene	4.370	61	140813	9.268	ppbV	90
38) Ethyl Acetate	4.470	61	42297	10.245	ppbV	78
39) chloroform	4.510	83	162642	8.681	ppbV	99
40) Tetrahydrofuran	4.697	42	154673	9.159	ppbV	92
41) 2,2-dichloropropane	4.523	77	111418	7.467	ppbV #	96
42) 1,2-dichloroethane	4.863	62	71887	6.748	ppbV #	87
44) hexane	4.470	57	206996	10.104	ppbV	83
45) diisopropyl ether	4.463	87	118870	9.255	ppbV	96
46) tert-butyl ethyl ether	4.723	59	314275	8.281	ppbV	96
48) 1,1,1-trichloroethane	4.990	97	123606	7.712	ppbV #	97
49) 1,1-dichloropropene	5.143	75	157278	9.109	ppbV	93
50) benzene	5.210	78	422350	9.774	ppbV	99
52) carbon tetrachloride	5.283	117	110104	7.662	ppbV	100
53) cyclohexane	5.343	56	234696	10.006	ppbV	98
54) tert-amyl methyl ether	5.490	73	340212	9.006	ppbV	96
55) dibromomethane	5.583	93	96083	9.252	ppbV	99
56) 1,2-dichloropropane	5.597	63	140663	9.972	ppbV	98
57) bromodichloromethane	5.690	83	170527	9.083	ppbV	100
58) 1,4-dioxane	5.703	88	98154	10.408	ppbV	98
59) trichloroethene	5.710	130	176940	10.360	ppbV	99
60) 2,2,4-trimethylpentane	5.723	57	667991	10.219	ppbV	95
61) methyl methacrylate	5.797	41	130830	9.279	ppbV	87
62) heptane	5.843	43	254457	9.849	ppbV	97
63) cis-1,3-dichloropropene	6.100	75	200971	9.756	ppbV #	92
64) 4-methyl-2-pentanone	6.113	43	277780	9.670	ppbV	96
65) trans-1,3-dichloropropene	6.340	75	146744	8.680	ppbV	97
66) 1,1,2-trichloroethane	6.420	97	156094	10.221	ppbV	96
68) toluene	6.547	91	487325	11.189	ppbV	100
71) 1,3-dichloropropane	6.560	76	196226	9.960	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
 Data File : r221900.D
 Acq On : 30 Nov 2023 4:23 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-LLSTD10.0
 Misc : WG1858542
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	6.660	43	255487	10.000	ppbV	95
74) dibromochloromethane	6.740	129	192266	11.103	ppbV	100
75) 1,2-dibromoethane	6.853	107	208912	10.891	ppbV	99
76) butyl acetate	6.940	73	64715	10.151	ppbV	91
77) octane	6.987	85	192739	10.831	ppbV	96
78) tetrachloroethene	7.060	166	193937	11.477	ppbV	98
79) 1,1,1,2-tetrachloroethane	7.353	131	134498	9.987	ppbV	98
80) chlorobenzene	7.367	112	380550	11.297	ppbV	98
81) ethylbenzene	7.533	91	572518	10.868	ppbV	99
83) m+p-xylene	7.613	91	899838	21.938	ppbV	97
84) bromoform	7.653	173	162442	11.442	ppbV	99
85) styrene	7.780	104	422176	11.484	ppbV	97
86) 1,1,2,2-tetrachloroethane	7.827	83	308834	11.232	ppbV	99
87) o-xylene	7.833	91	441727	11.030	ppbV	99
88) 1,2,3-trichloropropane	7.887	75	226150	9.871	ppbV	98
89) nonane	7.927	43	322468	10.040	ppbV	96
91) isopropylbenzene	8.107	105	592932	10.704	ppbV	99
92) bromobenzene	8.153	77	313232	10.372	ppbV	93
93) 2-chlorotoluene	8.340	126	186069	10.959	ppbV #	54
94) n-propylbenzene	8.353	120	216054	10.931	ppbV	82
95) 4-chlorotoluene	8.380	126	177932	10.434	ppbV	89
96) 4-ethyl toluene	8.427	105	651203	11.006	ppbV	99
97) 1,3,5-trimethylbenzene	8.467	105	551209	11.379	ppbV	97
98) tert-butylbenzene	8.677	119	505842	10.509	ppbV	99
99) 1,2,4-trimethylbenzene	8.677	105	510624	11.031	ppbV	94
100) decane	8.717	57	410664	10.627	ppbV	96
101) Benzyl Chloride	8.750	91	317890	11.439	ppbV	97
102) 1,3-dichlorobenzene	8.757	146	395798	11.643	ppbV	95
103) 1,4-dichlorobenzene	8.790	146	368168	11.293	ppbV	94
104) sec-butylbenzene	8.810	105	738362	10.743	ppbV	98
106) p-isopropyltoluene	8.890	119	597716	10.377	ppbV	95
107) 1,2-dichlorobenzene	8.970	146	359046	11.239	ppbV	98
108) n-butylbenzene	9.110	91	562990	10.915	ppbV	99
111) 1,2-dibromo-3-chloropr...	9.197	75	104694	9.274	ppbV	91
112) undecane	9.370	57	461519	11.073	ppbV	99
114) dodecane	9.918	57	442774	11.408	ppbV	99
115) 1,2,4-trichlorobenzene	9.857	180	281030	11.197	ppbV	99
116) naphthalene	9.918	128	645967	10.611	ppbV	99
117) 1,2,3-trichlorobenzene	10.053	180	245615	11.122	ppbV	98
119) hexachlorobutadiene	10.098	225	207442	10.769	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CT015-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129T_I\r221894.D
Sub List : Default-ICV-AP2 - All compounds listed

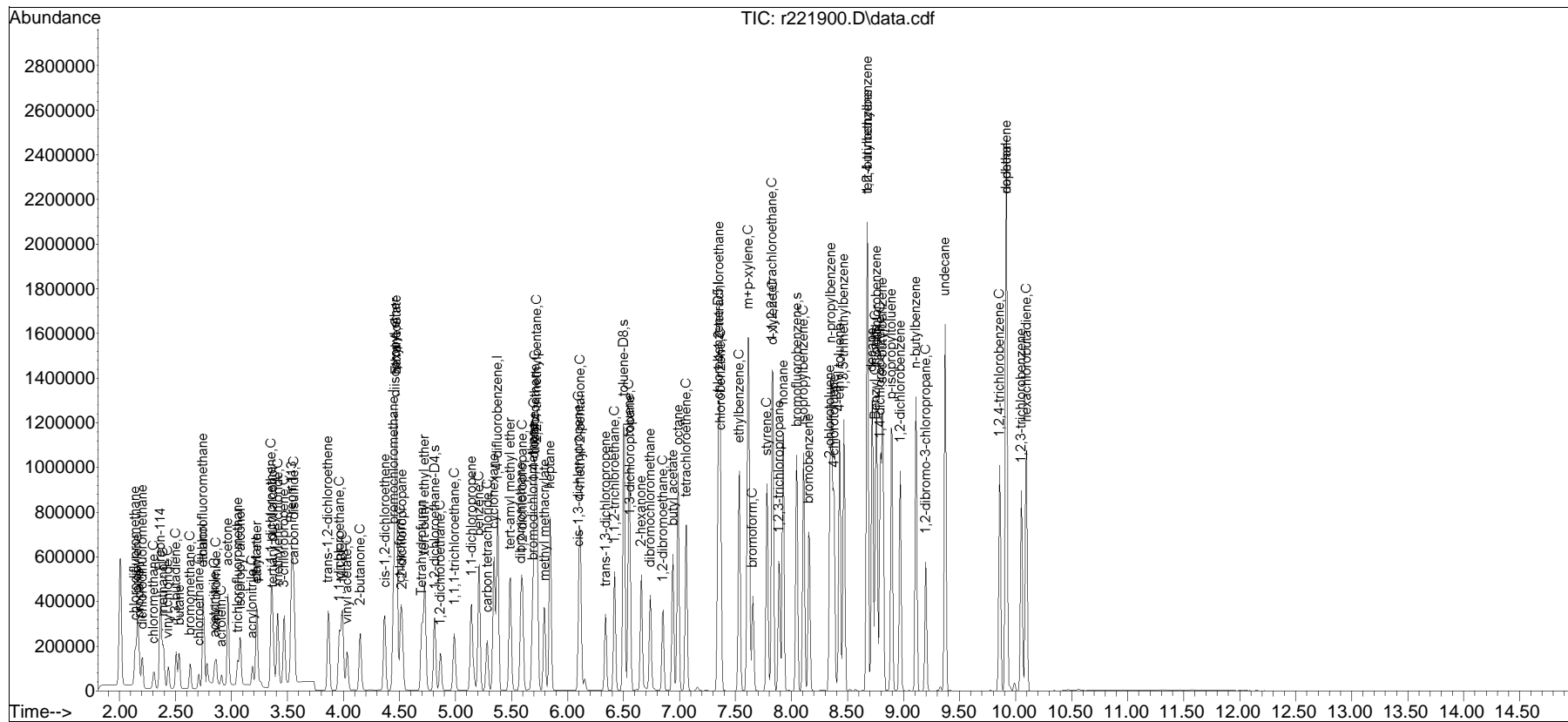
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
----------	------	------	----------	------	-------	----------

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-ICV-AP2 - All compounds listed9T_I\r221894.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129T_I\
Data File : r221900.D
Acq On : 30 Nov 2023 4:23 PM
Operator : AIRLAB22:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1858542
ALS Vial : 0 Sample Multiplier: 1

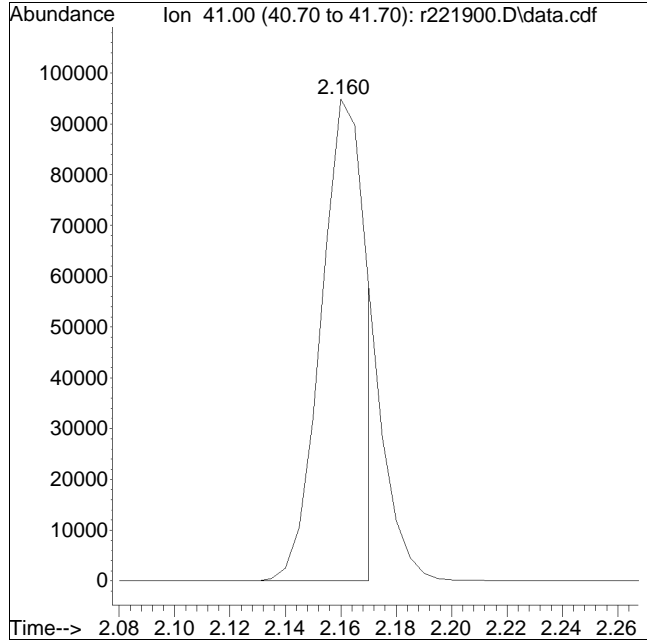
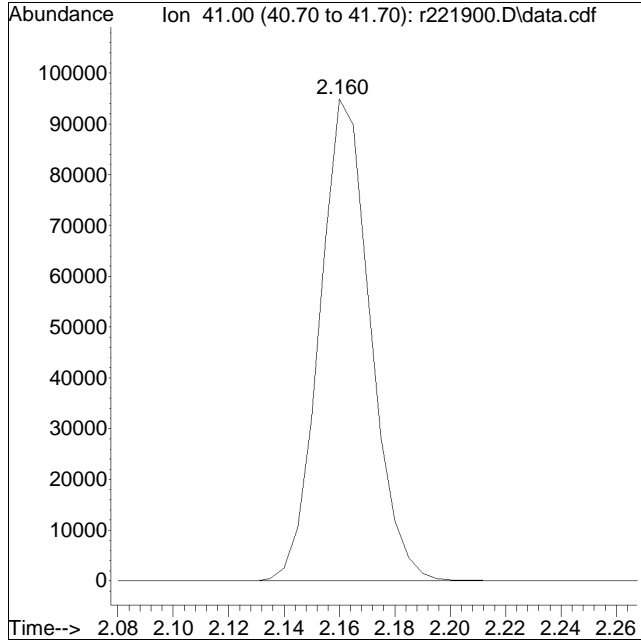
Quant Time: Dec 01 08:47:28 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129T_I\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r221900.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:4: 3 Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 12/1/2023 8:47 am

Compound #3: propylene



Original Peak Response = 120971

Manual Peak Response = 106770 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Method File : TFS15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 18:58:00 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1) I bromochloromethane	-----ISTD-----									
2) chlorodifluoro...	1.438	1.237	1.083	1.243	1.125	0.870	0.827	0.731	1.069	22.66
3) propylene	0.722	0.627	0.634	0.614	0.448	0.444	0.441	0.561	20.48	
4) propane	0.852	0.840	0.980	0.963	0.737	0.714	0.667	0.822	14.84	
5) dichlorodifluo...	1.117	1.177	1.181	1.407	1.311	0.968	0.900	0.808	1.109	18.49
6) C chloromethane	0.614	0.645	0.644	0.765	0.748	0.556	0.534	0.492	0.625	15.56
7) Freon-114	1.269	1.313	1.333	1.607	1.527	1.142	1.069	0.950	1.276	17.37
8) C methanol			0.561	0.474	0.458	0.339	0.322	0.293	0.408	25.90
9) C vinyl chloride	0.623	0.675	0.689	0.827	0.824	0.619	0.600	0.568	0.678	14.55
10) C 1,3-butadiene	0.536	0.553	0.552	0.693	0.666	0.502	0.488	0.450	0.555	15.23
11) butane	1.150	1.100	1.083	1.278	1.252	0.956	0.918	0.870	1.076	14.03
12) C acetaldehyde		0.425	0.416	0.503	0.483	0.357	0.331	0.284	0.400	20.02
13) C bromomethane	0.454	0.471	0.448	0.583	0.579	0.430	0.415	0.392	0.472	15.22
14) C chloroethane	0.325	0.322	0.315	0.386	0.381	0.286	0.280	0.269	0.320	13.71
15) ethanol			0.691	0.777	0.748	0.572	0.493	0.437	0.620	22.62
16) dichlorofluoro...	1.544	1.275	1.187	1.328	1.264	0.996	0.908	0.849	1.169	20.11
17) C vinyl bromide	0.386	0.416	0.408	0.517	0.509	0.389	0.378	0.358	0.420	14.30
18) C acrolein		0.323	0.304	0.358	0.353	0.276	0.273	0.261	0.307	12.77
19) acetone	0.789	0.828	0.810	0.964	0.932	0.695	0.653	0.590	0.782	16.70
20) C acetonitrile	0.821	0.681	0.647	0.769	0.760	0.588	0.574	0.545	0.673	15.14
21) trichlorofluor...	0.792	0.791	0.799	0.989	0.948	0.683	0.659	0.621	0.785	16.79
22) isopropyl alcohol	1.156	1.119	1.075	1.248	1.218	0.942	0.905	0.834	1.062	14.33
23) C acrylonitrile	0.523	0.557	0.566	0.627	0.628	0.493	0.489	0.461	0.543	11.59
24) pentane	1.243	1.292	1.311	1.543	1.513	1.153	1.109	1.040	1.276	14.18
25) ethyl ether	1.291	1.332	1.305	1.565	1.533	1.157	1.099	0.996	1.285	15.49
26) C 1,1-dichloroet...	0.794	0.855	0.837	1.040	1.036	0.799	0.783	0.760	0.863	12.98
27) tertiary butyl...		1.033	1.007	1.257	1.290	1.044	1.040	1.021	1.099	10.96
28) C methylene chlo...		0.790	0.772	0.918	0.916	0.698	0.679	0.649	0.775	14.11
29) C 3-chloropropene	0.805	0.836	0.823	1.015	1.032	0.808	0.804	0.785	0.863	11.58
30) C carbon disulfide	1.363	1.454	1.454	1.872	1.917	1.507	1.508	1.458	1.567	13.23
31) Freon 113	0.883	0.864	0.860	1.042	1.045	0.800	0.801	0.779	0.884	11.84

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Method File : TFS15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 18:58:00 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32) trans-1,2-dich...	0.698	0.762	0.807	1.003	1.012	0.803	0.795	0.782	0.833	13.60
33) C 1,1-dichloroet...	0.970	1.000	1.020	1.249	1.250	0.974	0.952	0.933	1.044	12.44
34) C MTBE	1.265	1.352	1.343	1.695	1.686	1.273	1.231	1.176	1.377	14.61
35) C vinyl acetate	1.227	1.251	1.269	1.540	1.585	1.244	1.252	1.204	1.322	11.40
36) C 2-butanone	1.302	1.350	1.646	1.649	1.265	1.239	1.189	1.377	13.89	
37) cis-1,2-dichlo...	0.714	0.753	0.754	0.955	0.970	0.752	0.740	0.723	0.795	13.14
38) Ethyl Acetate	0.183	0.183	0.241	0.250	0.202	0.209	0.208	0.211	12.31	
39) C chloroform	1.036	1.059	1.084	1.328	1.302	0.965	0.919	0.845	1.067	16.06
40) Tetrahydrofuran	0.755	0.762	0.981	0.994	0.772	0.767	0.742	0.825	13.54	
41) 2,2-dichloropr...	0.800	0.829	0.825	1.022	1.008	0.748	0.714	0.658	0.825	15.81
42) C 1,2-dichloroet...	0.730	0.731	0.711	0.865	0.842	0.625	0.590	0.567	0.708	15.50
43) I 1,4-difluorobenzene	----- ISTD -----									
44) C hexane	0.470	0.486	0.496	0.631	0.650	0.507	0.522	0.512	0.534	12.67
45) diisopropyl ether	0.221	0.220	0.228	0.290	0.300	0.238	0.245	0.245	0.248	12.26
46) tert-butyl eth...	0.844	0.886	0.893	1.134	1.146	0.883	0.886	0.894	0.946	12.78
47) s 1,2-dichloroet...	0.292	0.293	0.295	0.294	0.289	0.274	0.265	0.265	0.283	4.66
48) C 1,1,1-trichlor...	0.359	0.371	0.387	0.489	0.486	0.353	0.347	0.339	0.392	15.62
49) 1,1-dichloropr...	0.360	0.383	0.385	0.490	0.489	0.370	0.366	0.360	0.400	13.93
50) C benzene	0.856	0.880	0.883	1.116	1.119	0.846	0.844	0.830	0.922	13.26
51) thiophene	0.488	0.511	0.509	0.664	0.679	0.525	0.534	0.526	0.554	13.29
52) C carbon tetrach...	0.331	0.346	0.353	0.459	0.456	0.330	0.316	0.298	0.361	17.13
53) cyclohexane	0.520	0.517	0.530	0.658	0.673	0.528	0.539	0.550	0.564	11.24
54) tert-amyl meth...	0.664	0.697	0.707	0.905	0.917	0.696	0.701	0.699	0.748	13.55
55) dibromomethane	0.220	0.230	0.236	0.300	0.305	0.240	0.246	0.246	0.253	12.61
56) C 1,2-dichloropr...	0.297	0.309	0.306	0.395	0.400	0.309	0.319	0.330	0.333	12.27
57) bromodichlorom...	0.447	0.465	0.486	0.631	0.633	0.476	0.471	0.451	0.507	15.34
58) C 1,4-dioxane	0.147	0.167	0.175	0.229	0.236	0.190	0.200	0.206	0.194	15.63
59) C trichloroethene	0.273	0.274	0.275	0.357	0.371	0.288	0.298	0.306	0.305	12.54
60) C 2,2,4-trimethy...	1.496	1.594	1.619	2.021	2.112	1.590	1.624	1.618	1.709	13.20
61) methyl methacr...	0.336	0.347	0.480	0.485	0.369	0.373	0.374	0.395	15.61	
62) heptane	0.604	0.632	0.651	0.814	0.814	0.614	0.617	0.619	0.671	13.35

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Method File : TFS15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 18:58:00 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63) C cis-1,3-dichlo...	0.377	0.396	0.415	0.566	0.583	0.433	0.438	0.433	0.455	16.84
64) C 4-methyl-2-pen...		0.694	0.722	0.959	0.966	0.730	0.732	0.728	0.790	15.01
65) trans-1,3-dich...	0.272	0.314	0.338	0.461	0.473	0.353	0.355	0.349	0.364	18.95
66) C 1,1,2-trichlor...	0.263	0.276	0.277	0.356	0.362	0.278	0.283	0.292	0.298	12.81
67) I chlorobenzene-D5	-----ISTD-----									
68) C toluene	4.130	4.244	4.293	5.510	5.541	4.337	4.410	4.331	4.600	12.56
69) s toluene-D8	3.742	3.809	3.770	3.678	3.711	3.906	3.780	3.808	3.775	1.85
70) 2-methylthiophene	2.803	2.900	2.918	3.739	3.747	2.982	3.020	3.004	3.139	12.07
71) 1,3-dichloropr...	2.052	2.323	2.323	2.843	2.806	2.174	2.156	2.090	2.346	13.25
72) 2-hexanone	2.174	2.840	3.011	4.064	4.096	3.203	3.266	3.191	3.231	19.45
73) 3-methylthiophene	2.678	3.044	3.101	4.011	3.999	3.195	3.258	3.249	3.317	13.96
74) dibromochlorom...	1.410	1.562	1.630	2.268	2.294	1.848	1.829	1.766	1.826	17.32
75) C 1,2-dibromoethane	1.724	1.965	1.967	2.561	2.536	1.971	1.970	1.944	2.080	14.47
76) butyl acetate		0.410	0.471	0.668	0.691	0.538	0.552	0.555	0.555	17.92
77) octane	1.637	1.957	1.760	2.203	2.226	1.766	1.805	1.801	1.894	11.39
78) C tetrachloroethene	1.366	1.504	1.476	1.899	1.958	1.510	1.528	1.511	1.594	13.36
79) 1,1,1,2-tetrac...	1.120	1.244	1.280	1.656	1.712	1.387	1.379	1.362	1.393	14.40
80) C chlorobenzene	3.070	3.281	3.138	4.054	4.176	3.261	3.324	3.311	3.452	12.16
81) C ethylbenzene	4.631	5.117	5.170	6.846	6.953	5.588	5.582	5.485	5.671	14.47
82) 2-ethylthiophene	3.050	3.317	3.427	4.409	4.475	3.550	3.497	3.487	3.652	14.03
83) C m+p-xylene	3.858	4.234	4.248	5.671	5.652	4.480	4.484	4.314	4.618	14.57
84) C bromoform	0.928	1.135	1.204	1.798	1.901	1.525	1.579	1.598	1.458	23.17
85) C styrene	2.616	2.921	3.100	4.126	4.233	3.328	3.377	3.360	3.383	16.42
86) C 1,1,2,2-tetrac...	2.876	3.179	3.261	4.349	4.480	3.503	3.532	3.302	3.560	15.90
87) C o-xylene	3.852	4.212	4.312	5.707	5.820	4.534	4.590	4.213	4.655	15.49
88) 1,2,3-trichlor...	2.423	2.663	2.686	3.443	3.412	2.674	2.660	2.580	2.817	13.70
89) nonane	3.921	4.473	4.508	5.739	5.671	4.483	4.446	4.386	4.703	13.75
90) s bromofluoroben...	2.448	2.512	2.508	2.587	2.650	2.769	2.710	2.728	2.614	4.51
91) C isopropylbenzene	5.073	5.423	5.426	7.017	6.980	5.485	5.430	5.280	5.764	13.40
92) bromobenzene	3.172	3.486	3.513	4.463	4.453	3.514	3.480	3.375	3.682	13.36
93) 2-chlorotoluene	1.165	1.338	1.379	1.828	1.855	1.526	1.571	1.621	1.535	15.49

Response Factor Report

Method Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Method File : TFS15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 18:58:00 2024
 Response Via : Initial Calibration

Calibration Files

0.2 =r1543630.D 0.5 =r1543631.D 1.0 =r1543632.D 5.0 =r1543633.D 10 =r1543634.D 20 =r1543635.D
 50 =r1543636.D 100 =r1543637.D

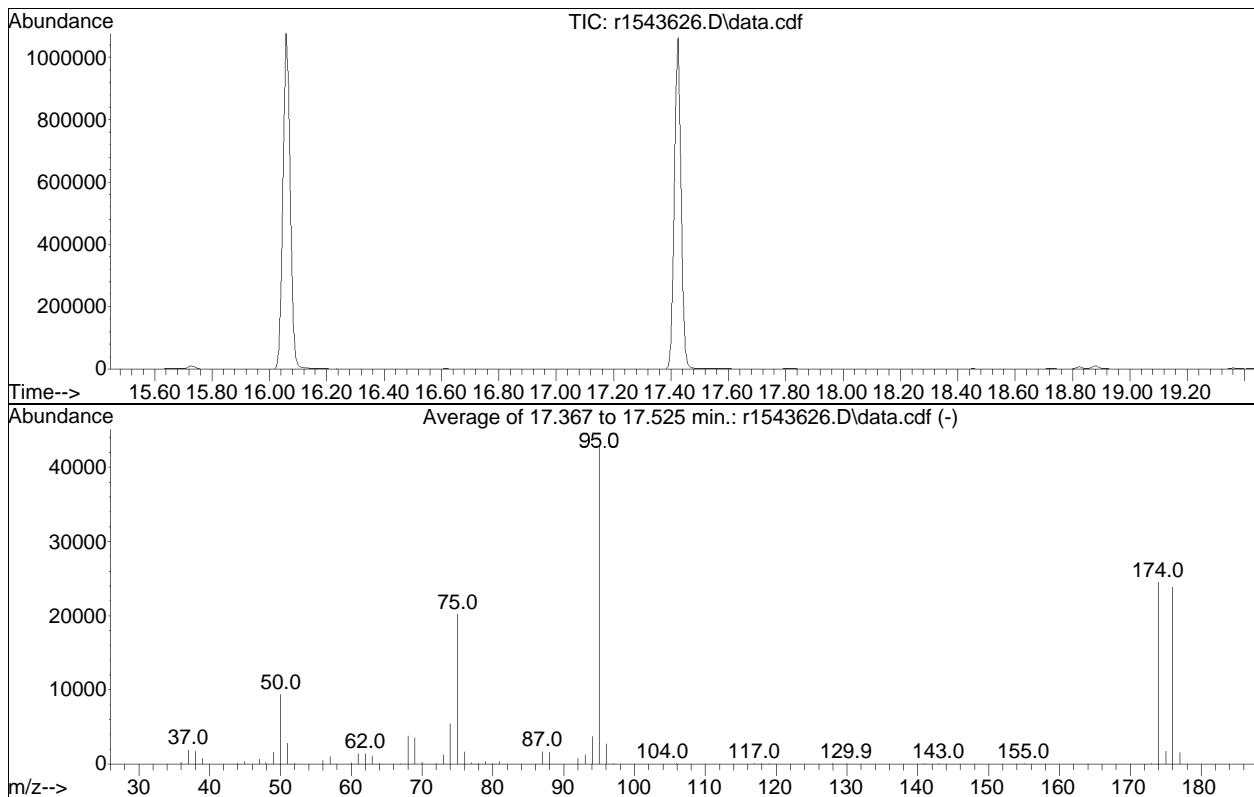
Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94) n-propylbenzene	1.356	1.570	1.642	2.200	2.236	1.830	1.899	1.914	1.831	16.54
95) 4-chlorotoluene	1.215	1.312	1.322	1.789	1.829	1.485	1.532	1.603	1.511	14.82
96) 4-ethyl toluene	4.861	5.523	5.712	7.458	7.524	5.853	5.833	5.806	6.071	15.38
97) 1,3,5-trimethy...	4.468	5.697	4.976	7.253	7.214	5.435	5.582	5.340	5.746	17.33
98) tert-butylbenzene	4.291	5.046	5.177	6.738	6.765	5.298	5.292	4.732	5.417	16.40
99) 1,2,4-trimethy...	4.355	4.807	4.970	6.711	6.633	5.133	5.238	4.940	5.348	16.04
100) decane	3.989	4.579	4.792	6.354	6.395	5.139	5.285	5.163	5.212	15.87
101) C Benzyl Chloride	1.688	2.056	2.340	3.941	4.352	3.642	3.990	4.011	3.253	32.17#
102) 1,3-dichlorobe...	2.298	2.712	2.808	3.858	3.886	2.995	3.178	3.157	3.112	17.56
103) C 1,4-dichlorobe...	2.427	2.687	2.822	3.832	3.798	2.940	3.094	3.144	3.093	16.17
104) sec-butylbenzene	6.014	6.972	7.036	9.084	9.039	7.075	7.111	6.835	7.396	14.69
105) 1,2,3-trimethy...	4.940	5.280	5.103	6.411	6.222	4.818	4.737	4.268	5.223	14.15
106) p-isopropyltol...	6.504	7.277	7.346	9.025	8.679	6.743	6.346	5.543	7.183	16.40
107) 1,2-dichlorobe...	2.165	2.582	2.624	3.607	3.613	2.807	2.899	2.887	2.898	17.18
108) n-butylbenzene	4.493	5.229	5.474	7.399	7.479	5.880	5.984	5.760	5.962	17.18
109) indan	3.869	4.370	4.513	6.172	6.186	4.863	4.836	4.605	4.927	16.90
110) indene	2.442	2.852	2.983	4.180	4.242	3.334	3.338	3.324	3.337	18.59
111) C 1,2-dibromo-3-...	1.140	1.284	1.405	1.914	1.967	1.542	1.544	1.491	1.536	18.56
112) undecane	4.048	4.910	5.226	7.156	7.350	5.886	6.090	5.658	5.791	19.08
113) 1,2,4,5-tetram...	0.151	0.203	0.224	0.378	0.383	0.224	0.229	0.225	0.252	32.96#
114) dodecane	2.339	4.286	4.971	6.824	7.614	5.920	6.224	5.732	5.489	29.80
115) C 1,2,4-trichlor...	1.047	1.467	1.723	2.626	2.911	2.207	2.440	2.529	2.119	30.35#
116) naphthalene	3.255	4.528	4.984	7.253	7.890	6.163	6.555	6.440	5.884	25.93
117) 1,2,3-trichlor...	0.917	1.486	1.614	2.259	2.516	1.892	2.205	2.312	1.900	28.06
118) benzothiophene		0.468	0.562	1.213	1.387	0.689	0.762	0.759	0.834	40.63#
119) C hexachlorobuta...	1.294	1.764	1.791	2.404	2.535	1.878	1.988	1.939	1.949	19.81
120) 2-methylnaphth...			0.840	2.410	3.295	1.580	2.015	2.140	2.047	40.14#
121) 1-methylnaphth...			1.540	3.459	4.852	2.383	2.953	3.170	3.060	36.28#

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543626.D
 Acq On : 22 Mar 2024 7:40 PM
 Operator : AIRLAB15:TJS
 Sample : WG1900348-1,3,250,250
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 18:58:00 2024



Spectrum Information: Average of 17.367 to 17.525 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	21.9	9419	PASS
75	95	30	66	47.0	20255	PASS
95	95	100	100	100.0	43062	PASS
96	95	5	9	6.4	2752	PASS
173	174	0.00	2	0.6	138	PASS
174	95	50	120	56.9	24515	PASS
175	174	4	9	7.3	1787	PASS
176	174	93	101	97.5	23908	PASS
177	176	5	9	6.4	1538	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543630.D
 Acq On : 22 Mar 2024 10:17 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.2
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	364887	10.000	ppbV	0.00
Standard Area =	379489		Recovery =	96.15%		
43) 1,4-difluorobenzene	11.373	114	757549	10.000	ppbV	0.00
Standard Area =	787888		Recovery =	96.15%		
67) chlorobenzene-D5	16.058	54	163463	10.000	ppbV	0.00
Standard Area =	172589		Recovery =	94.71%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.008	65	221492	9.693	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	96.93%		
69) toluene-D8	14.208	98	611618	8.161	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	81.61%		
90) bromofluorobenzene	17.425	95	400138	8.449	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	84.49%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.904	51	10497	0.270	ppbV	99
3) propylene	3.940	41	8622	0.334	ppbV	95
4) propane	3.964	29	6329	0.208	ppbV	98
5) dichlorodifluoromethane	4.012	85	8151	0.197	ppbV	95
6) chloromethane	4.174	50	4481	0.196	ppbV	94
7) Freon-114	4.282	85	9262	0.196	ppbV	96
8) methanol	4.360	31	22635	1.665	ppbV #	34
9) vinyl chloride	4.408	62	4544	0.164	ppbV #	86
10) 1,3-butadiene	4.552	54	3910	0.194	ppbV	97
11) butane	4.612	43	8389	0.181	ppbV	94
12) acetaldehyde	4.318	29	14588M4	1.124	ppbV	
13) bromomethane	4.840	94	3315	0.170	ppbV	95
14) chloroethane	5.026	64	2369	0.172	ppbV	100
15) ethanol	5.182	31	25623M6	1.325	ppbV	
16) dichlorofluoromethane	5.140	67	11265	0.209	ppbV #	93
17) vinyl bromide	5.410	106	2815	0.147	ppbV	87
18) acrolein	5.550	56	2302M6	0.215	ppbV	
19) acetone	5.703	43	28791	0.819	ppbV #	100
20) acetonitrile	5.417	41	5995	0.208	ppbV #	77
21) trichlorofluoromethane	5.867	101	5780	0.162	ppbV	89
22) isopropyl alcohol	6.000	45	21095	0.472	ppbV #	97
23) acrylonitrile	6.213	53	3814M6	0.193	ppbV	
24) pentane	6.270	43	9073	0.158	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543630.D
 Acq On : 22 Mar 2024 10:17 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.2
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.313	31	9425	0.164	ppbV	97
26) 1,1-dichloroethene	6.576	61	5792	0.142	ppbV	94
27) tertiary butyl alcohol	6.690	59	6682	0.134	ppbV #	93
28) methylene chloride	6.720	49	5812	0.200	ppbV	94
29) 3-chloropropene	6.852	41	5874	0.143	ppbV	93
30) carbon disulfide	7.032	76	9950M6	0.148	ppbV	
31) Freon 113	7.020	101	6444	0.153	ppbV	99
32) trans-1,2-dichloroethene	7.775	61	5091M6	0.127	ppbV	
33) 1,1-dichloroethane	8.000	63	7078	0.137	ppbV	99
34) MTBE	8.100	73	9233	0.153	ppbV	98
35) vinyl acetate	8.200	43	8951	0.159	ppbV	99
36) 2-butanone	8.483	43	8944	0.154	ppbV	98
37) cis-1,2-dichloroethene	8.950	61	5210	0.136	ppbV	96
38) Ethyl Acetate	9.242	61	1341	0.134	ppbV #	35
39) chloroform	9.292	83	7562	0.183	ppbV	94
40) Tetrahydrofuran	9.775	42	5233M6	0.143	ppbV	
41) 2,2-dichloropropane	9.317	77	5836	0.181	ppbV	92
42) 1,2-dichloroethane	10.133	62	5329	0.165	ppbV #	92
44) hexane	9.208	57	7126	0.159	ppbV #	42
45) diisopropyl ether	9.217	87	3351M6	0.168	ppbV	
46) tert-butyl ethyl ether	9.842	59	12794	0.157	ppbV	96
48) 1,1,1-trichloroethane	10.425	97	5445	0.160	ppbV	99
49) 1,1-dichloropropene	10.793	75	5449	0.179	ppbV	89
50) benzene	10.953	78	12963	0.184	ppbV	98
51) thiophene	11.100	84	7388	0.173	ppbV	97
52) carbon tetrachloride	11.120	117	5016	0.187	ppbV	96
53) cyclohexane	11.267	56	7876	0.170	ppbV	94
54) tert-amyl methyl ether	11.667	73	10054	0.168	ppbV	100
55) dibromomethane	11.867	93	3329M6	0.154	ppbV	
56) 1,2-dichloropropane	11.900	63	4495	0.147	ppbV	92
57) bromodichloromethane	12.127	83	6771M6	0.183	ppbV	
58) 1,4-dioxane	12.200	88	2232M6	0.139	ppbV	
59) trichloroethene	12.180	130	4132	0.157	ppbV	97
60) 2,2,4-trimethylpentane	12.227	57	22665M6	0.157	ppbV	
61) methyl methacrylate	12.433	41	4908	0.151	ppbV	98
62) heptane	12.540	43	9150	0.169	ppbV	90
63) cis-1,3-dichloropropene	13.192	75	5710	0.162	ppbV #	85
64) 4-methyl-2-pentanone	13.258	43	9410	0.152	ppbV	97
65) trans-1,3-dichloropropene	13.825	75	4115	0.146	ppbV	99
66) 1,1,2-trichloroethane	14.017	97	3986	0.147	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543630.D
 Acq On : 22 Mar 2024 10:17 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.2
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	13502	0.148	ppbV	98
70) 2-methylthiophene	14.383	97	9163	0.140	ppbV	99
71) 1,3-dichloropropane	14.342	76	6708	0.166	ppbV	96
72) 2-hexanone	14.625	43	7108M6	0.120	ppbV	
73) 3-methylthiophene	14.575	97	8754	0.126	ppbV	96
74) dibromochloromethane	14.758	129	4609	0.129	ppbV #	96
75) 1,2-dibromoethane	15.008	107	5635	0.145	ppbV	96
76) butyl acetate	15.258	73	1181	0.116	ppbV	81
77) octane	15.333	85	5353	0.157	ppbV #	92
78) tetrachloroethene	15.458	166	4466	0.145	ppbV #	88
79) 1,1,1,2-tetrachloroethane	16.083	131	3663	0.130	ppbV #	78
80) chlorobenzene	16.100	112	10038	0.159	ppbV	98
81) ethylbenzene	16.450	91	15139	0.129	ppbV	98
82) 2-ethylthiophene	16.483	97	9971	0.130	ppbV	95
83) m+p-xylene	16.617	91	25227	0.272	ppbV	98
84) bromoform	16.683	173	3035	0.102	ppbV	96
85) styrene	16.933	104	8554	0.126	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.025	83	9401	0.147	ppbV	93
87) o-xylene	17.025	91	12594	0.133	ppbV	99
88) 1,2,3-trichloropropane	17.142	75	7921	0.161	ppbV	95
89) nonane	17.217	43	12820	0.149	ppbV	95
91) isopropylbenzene	17.533	105	16585	0.149	ppbV	99
92) bromobenzene	17.617	77	10370M6	0.162	ppbV	
93) 2-chlorotoluene	17.942	126	3810	0.123	ppbV	81
94) n-propylbenzene	17.967	120	4432	0.125	ppbV	89
95) 4-chlorotoluene	18.000	126	3973	0.130	ppbV	92
96) 4-ethyl toluene	18.092	105	15891	0.136	ppbV	98
97) 1,3,5-trimethylbenzene	18.150	105	14608	0.128	ppbV	98
98) tert-butylbenzene	18.492	119	14030	0.138	ppbV	96
99) 1,2,4-trimethylbenzene	18.500	105	14237	0.142	ppbV	92
100) decane	18.575	57	13040	0.126	ppbV #	86
101) Benzyl Chloride	18.625	91	5519	0.082	ppbV	92
102) 1,3-dichlorobenzene	18.633	146	7514	0.124	ppbV	90
103) 1,4-dichlorobenzene	18.692	146	7935	0.132	ppbV #	94
104) sec-butylbenzene	18.717	105	19661	0.138	ppbV	99
105) 1,2,3-trimethylbenzene	18.850	105	16150M6	0.164	ppbV	
106) p-isopropyltoluene	18.850	119	21264	0.171	ppbV	93
107) 1,2-dichlorobenzene	18.975	146	7077	0.121	ppbV #	86
108) n-butylbenzene	19.192	91	14688M6	0.122	ppbV	
109) indan	19.017	117	12649	0.136	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543630.D
 Acq On : 22 Mar 2024 10:17 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.2
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:17 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

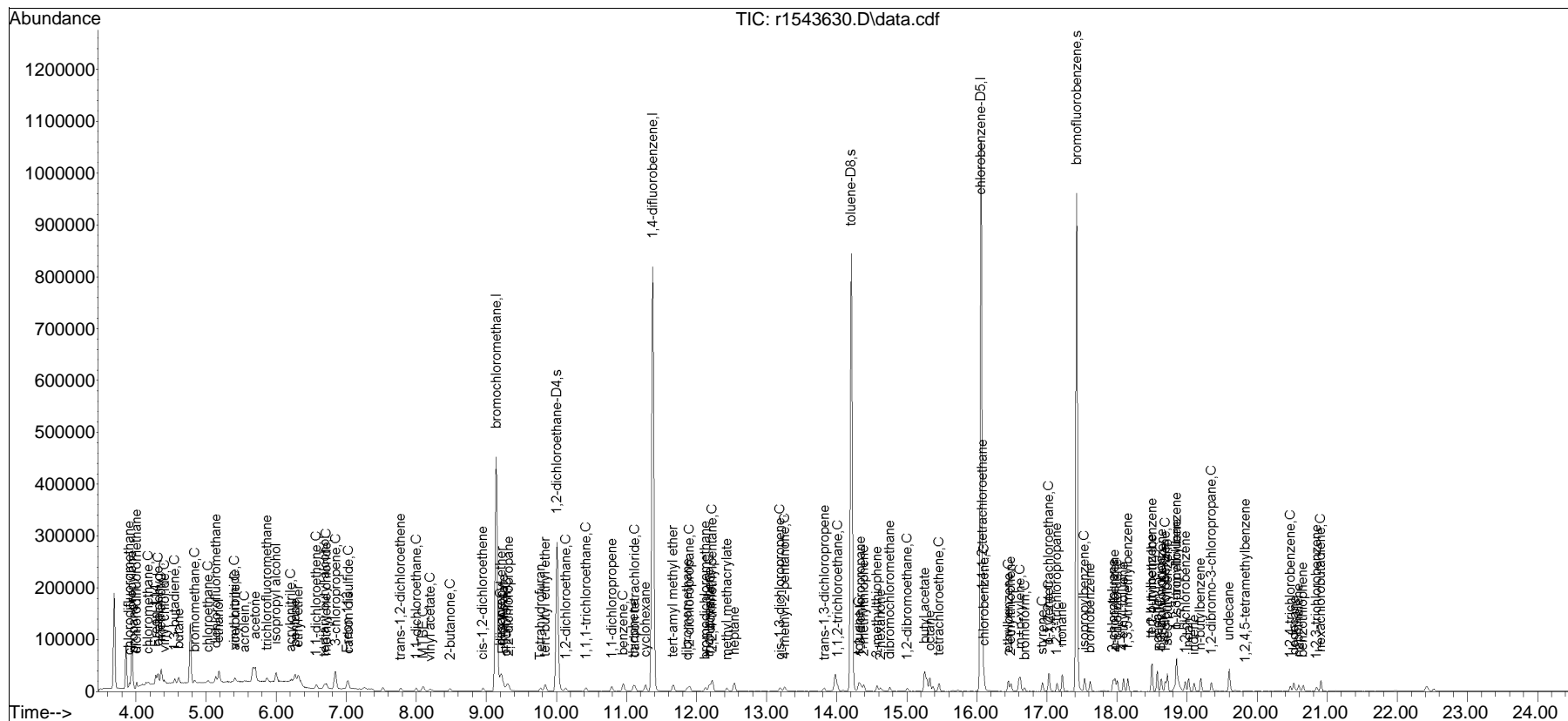
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	7983	0.129	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.350	75	3727	0.138	ppbV #	82
112) undecane	19.600	57	13233	0.114	ppbV #	95
113) 1,2,4,5-tetramethylben...	19.833	119	494	0.102	ppbV #	38
114) dodecane	20.525	57	7646	0.069	ppbV	92
115) 1,2,4-trichlorobenzene	20.475	180	3424	0.078	ppbV #	83
116) naphthalene	20.592	128	10642	0.086	ppbV #	91
117) 1,2,3-trichlorobenzene	20.842	180	2998	0.075	ppbV	94
118) benzothiophene	20.650	134	9797	0.059	ppbV #	96
119) hexachlorobutadiene	20.908	225	4232	0.110	ppbV #	92
120) 2-methylnaphthalene	0.000		0	N.D.		
121) 1-methylnaphthalene	21.958		0	N.D.		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543630.D
Acq On : 22 Mar 2024 10:17 PM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD0.2
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

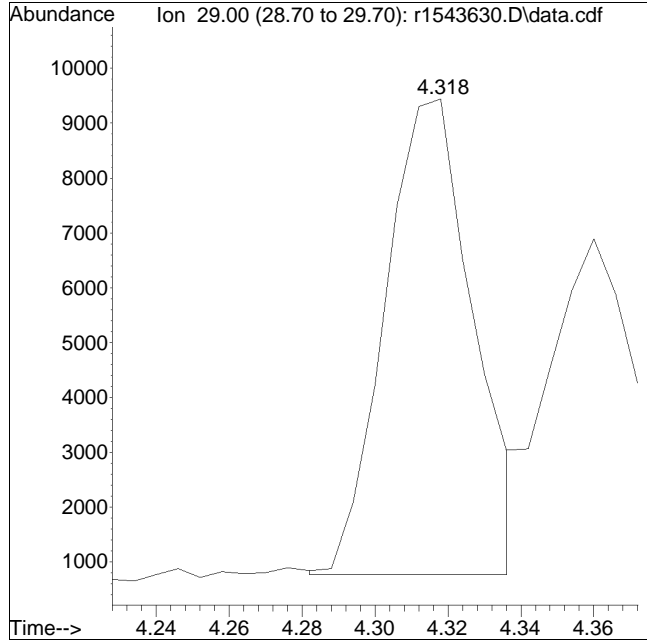
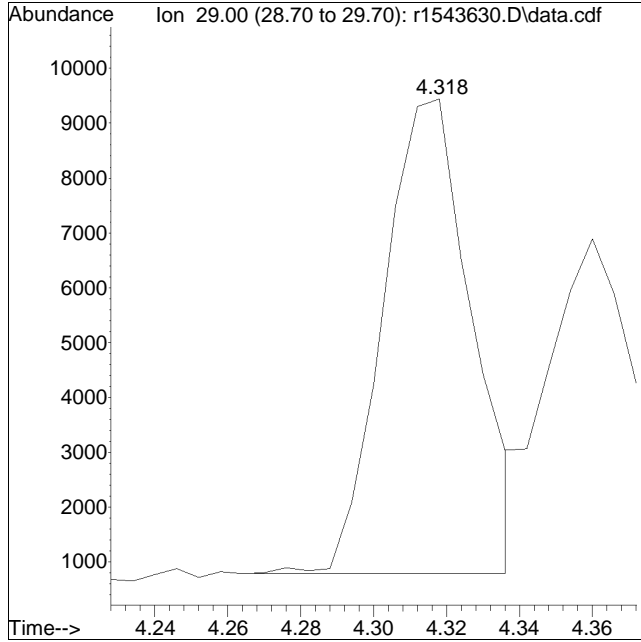
Quant Time: Mar 23 09:48:17 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #12: acetaldehyde



Original Peak Response = 14589

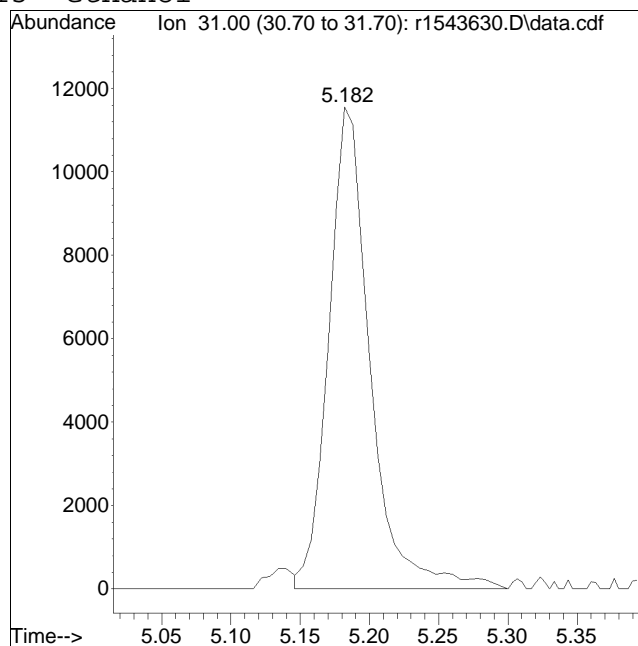
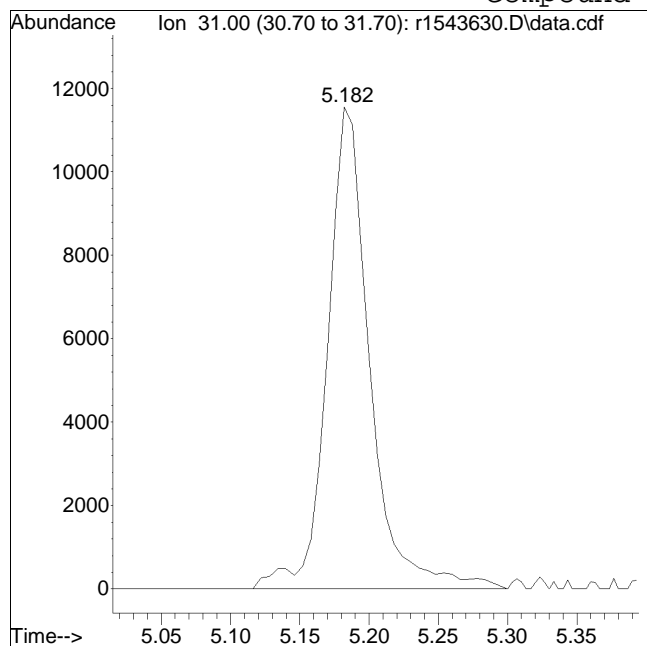
Manual Peak Response = 14588 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #15: ethanol



Original Peak Response = 25999

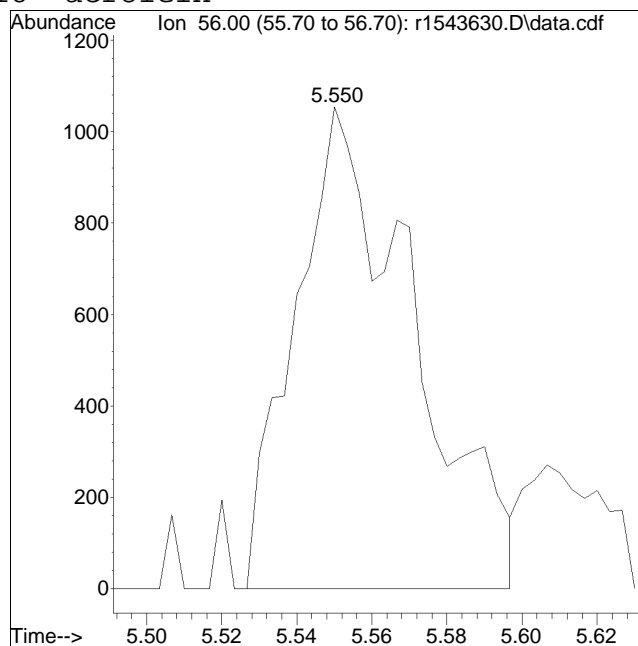
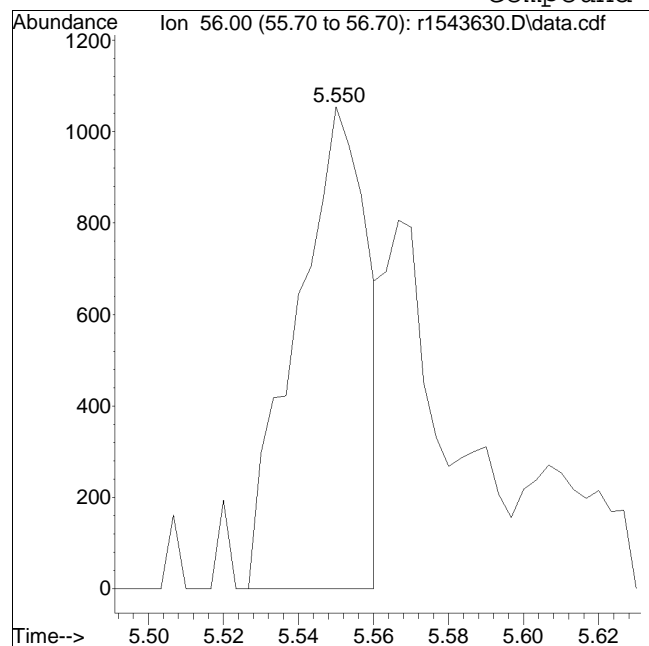
Manual Peak Response = 25623 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #18: acrolein



Original Peak Response = 1381

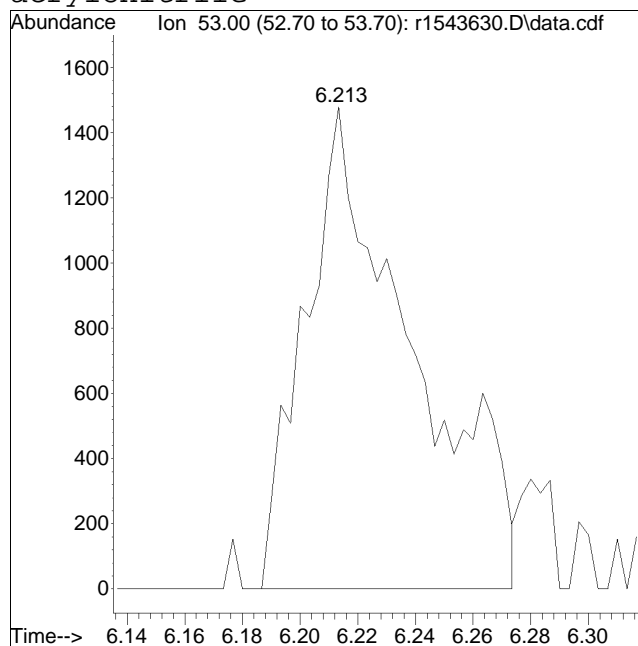
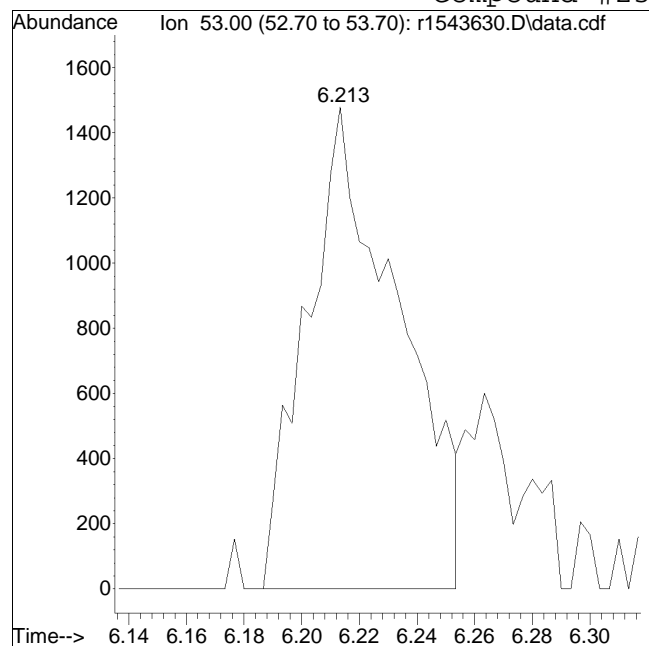
Manual Peak Response = 2302 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #23: acrylonitrile



Original Peak Response = 3283

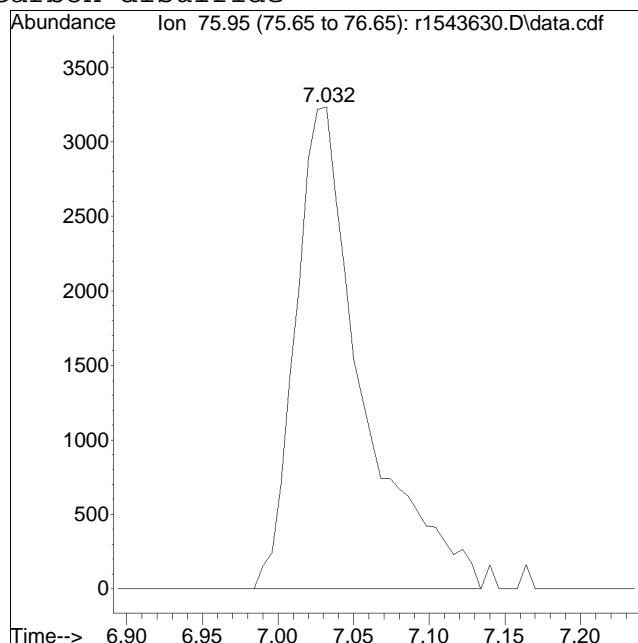
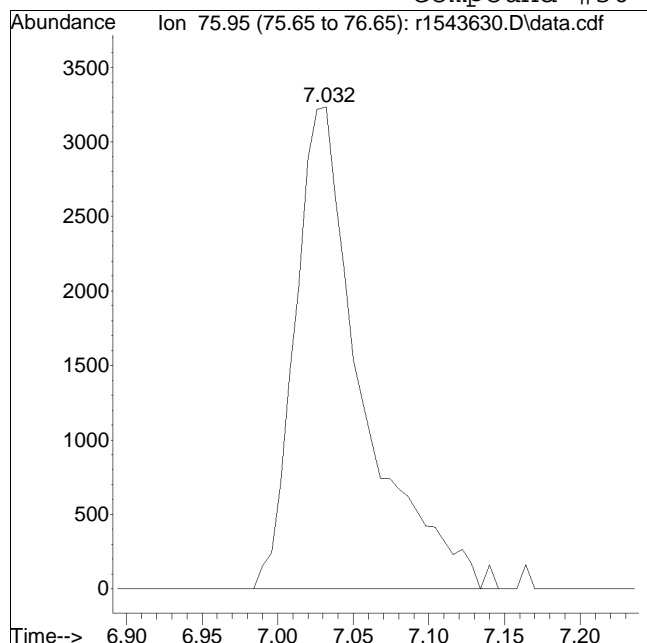
Manual Peak Response = 3814 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #30: carbon disulfide



Original Peak Response = 10008

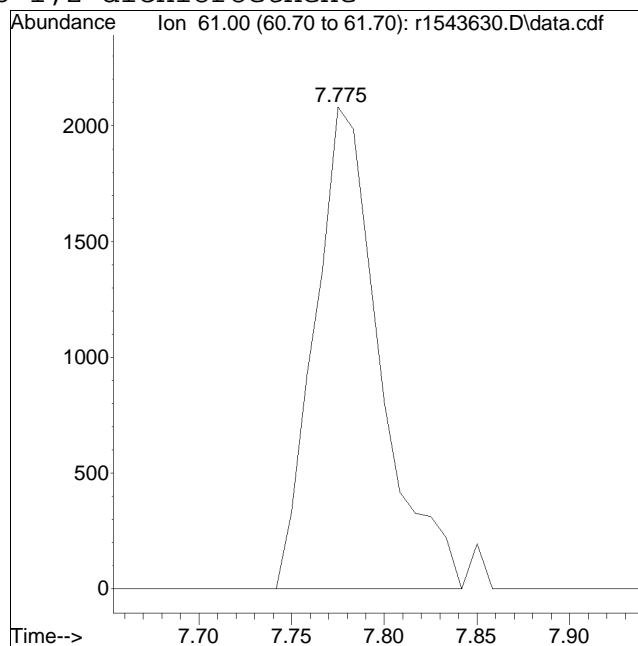
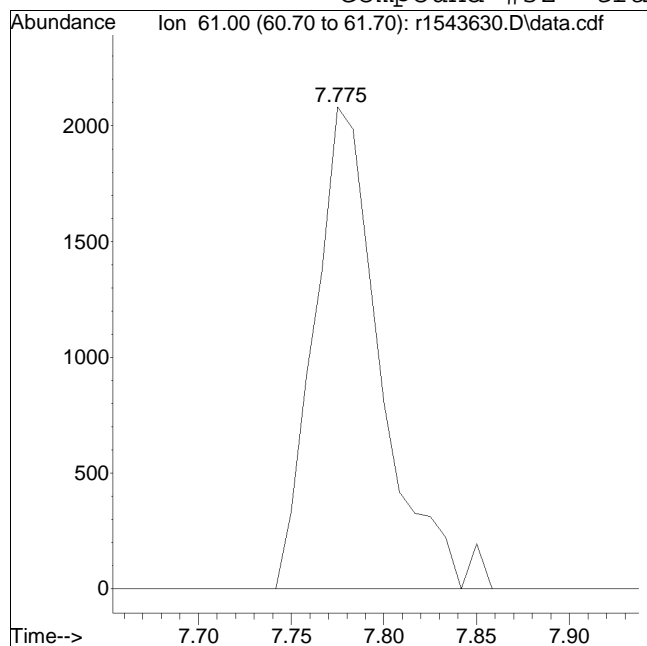
Manual Peak Response = 9950 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 5189

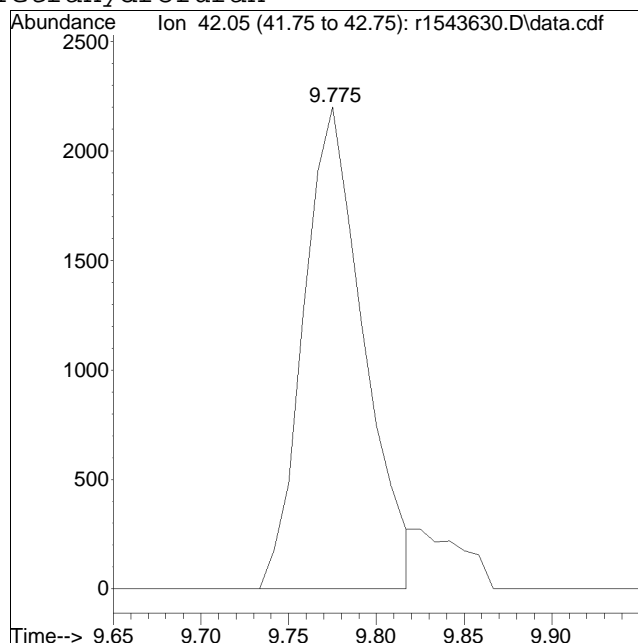
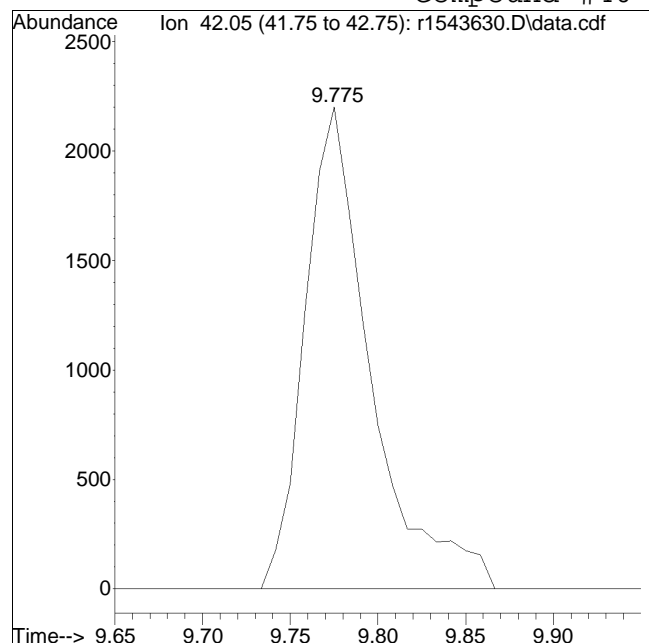
Manual Peak Response = 5091 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #40: Tetrahydrofuran



Original Peak Response = 5752

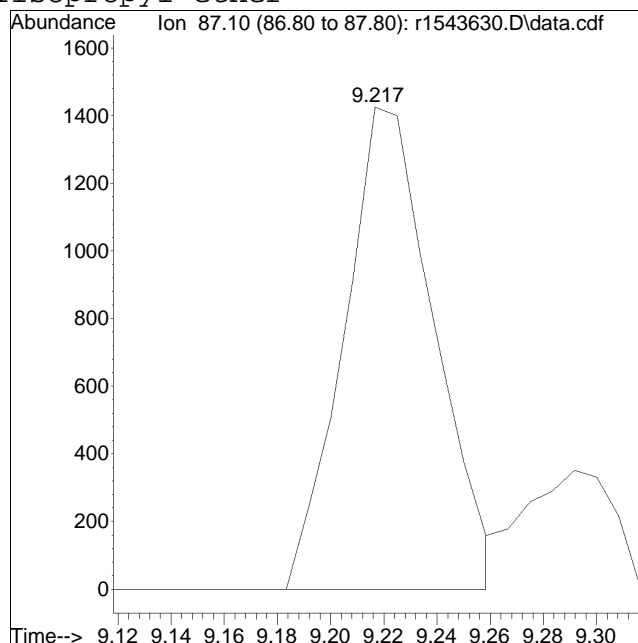
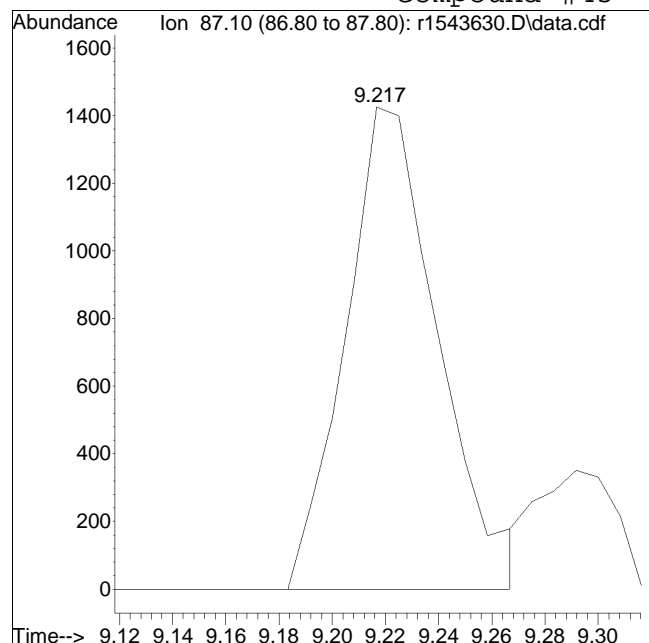
Manual Peak Response = 5233 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #45: diisopropyl ether



Original Peak Response = 3440

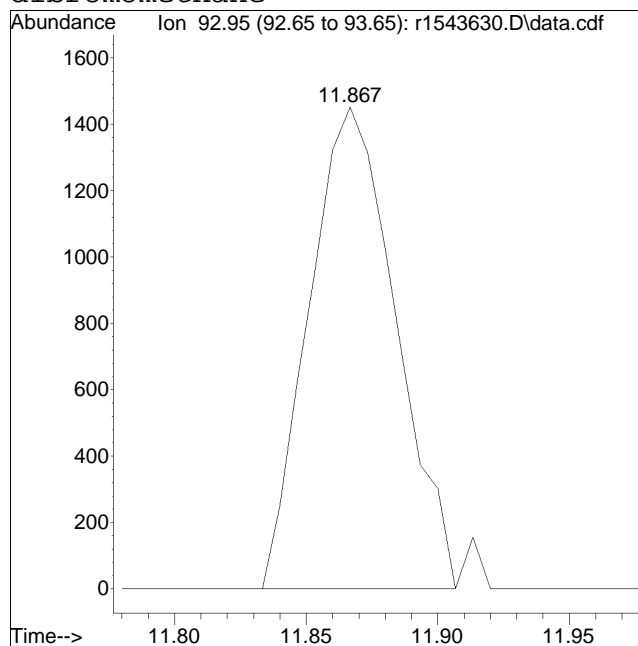
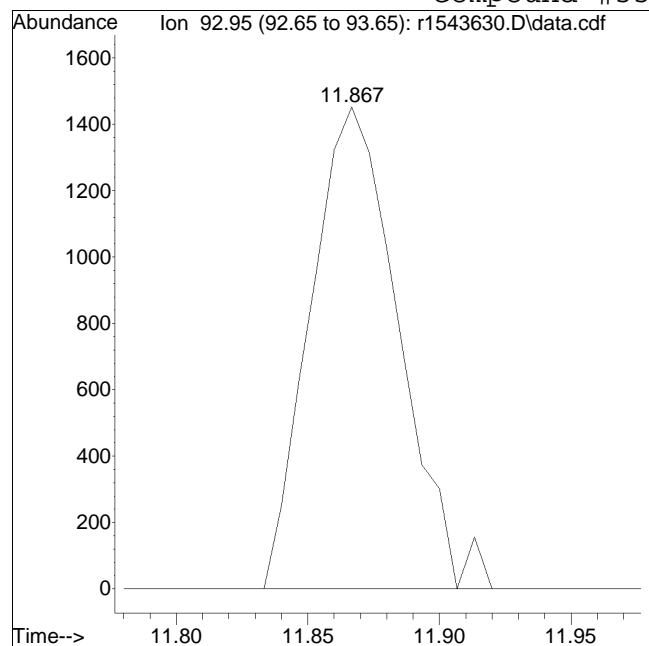
Manual Peak Response = 3351 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #55: dibromomethane



Original Peak Response = 3392

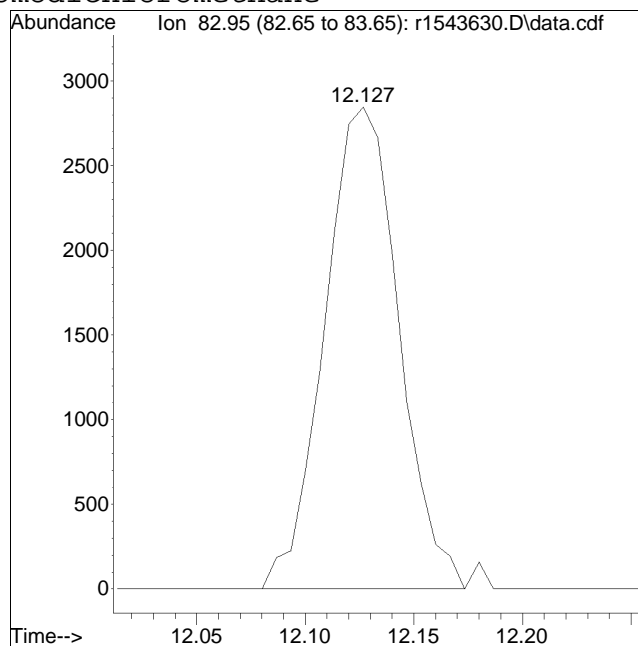
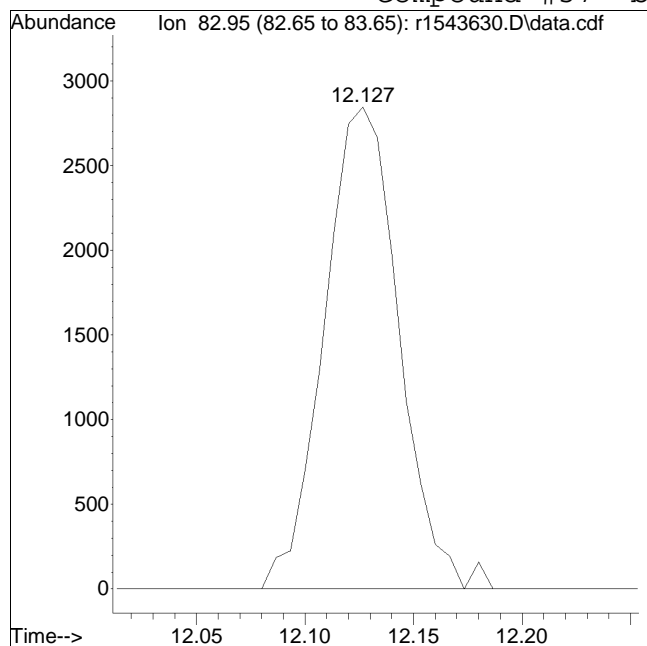
Manual Peak Response = 3329 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #57: bromodichloromethane



Original Peak Response = 6835

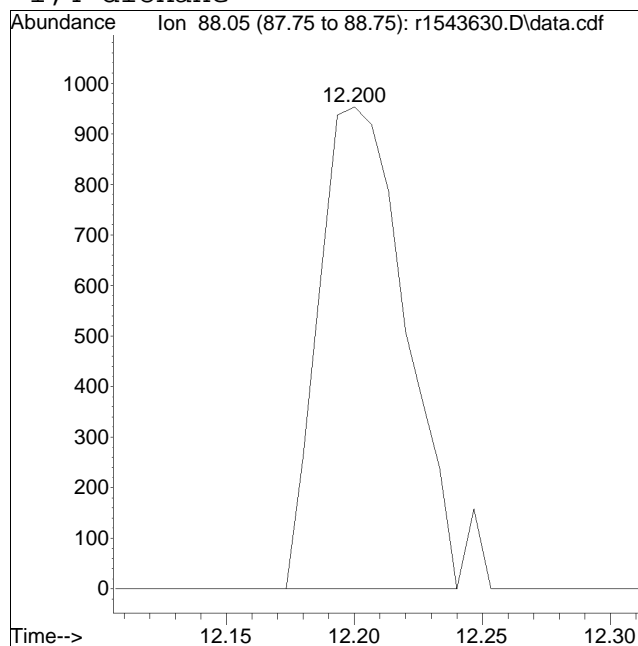
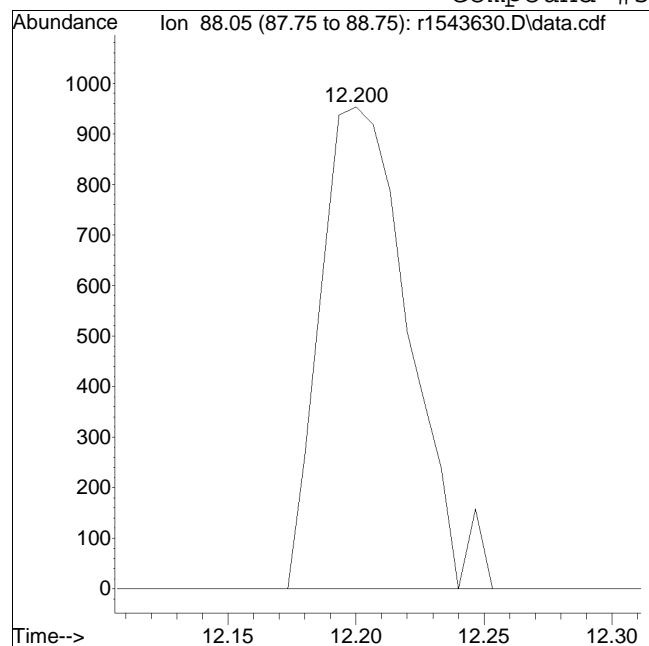
Manual Peak Response = 6771 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #58: 1,4-dioxane



Original Peak Response = 2295

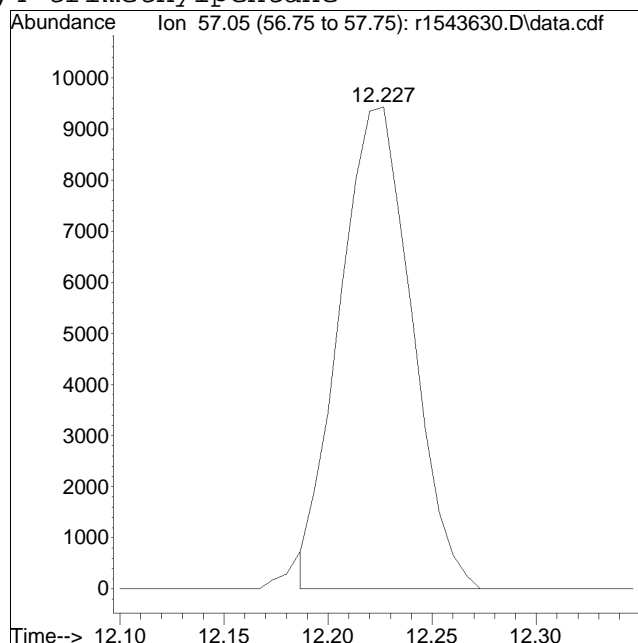
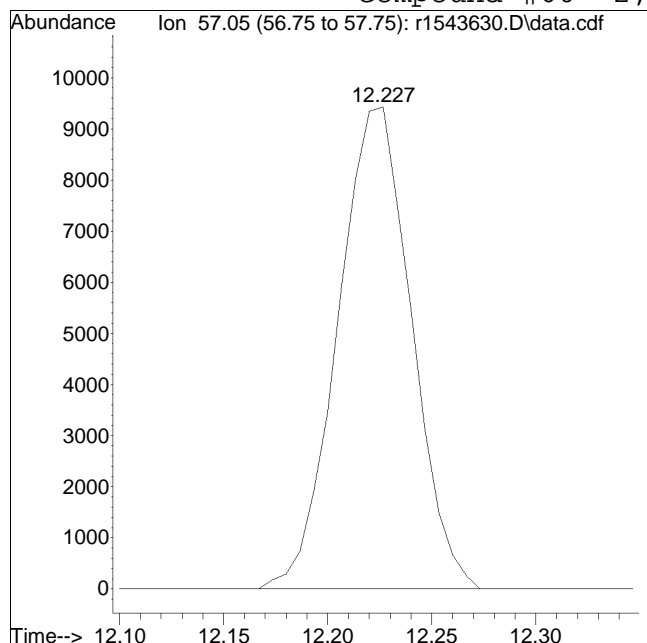
Manual Peak Response = 2232 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 23150

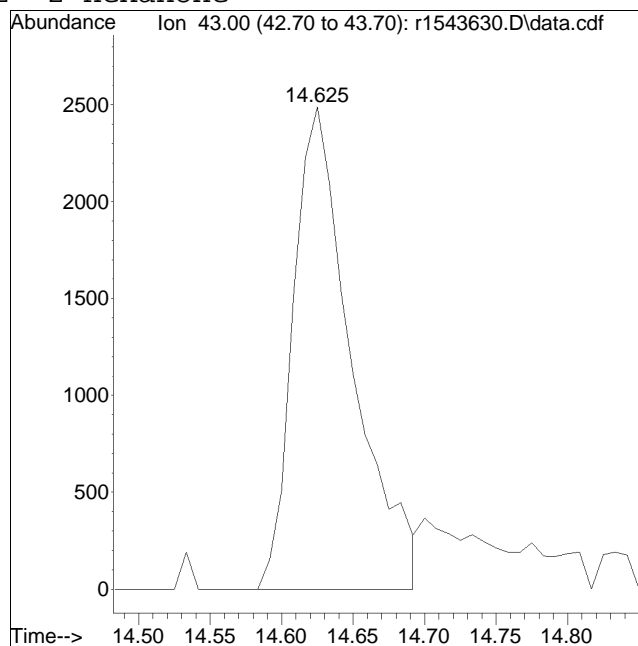
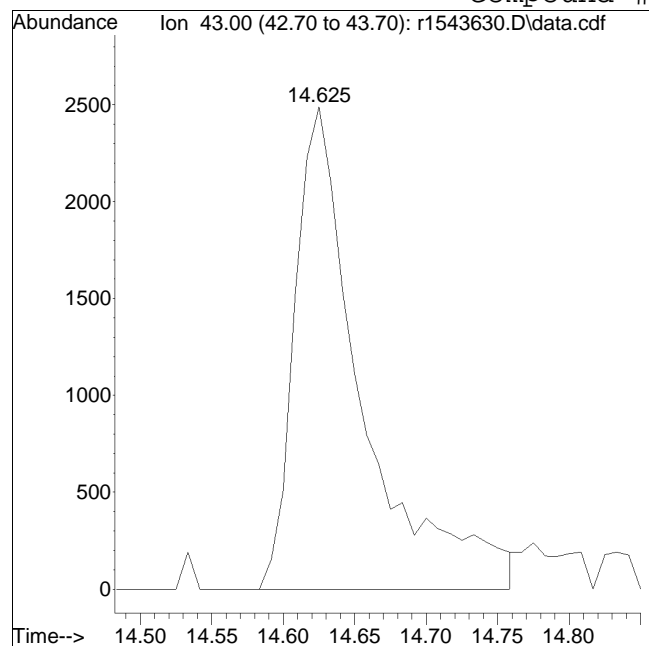
Manual Peak Response = 22665 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #72: 2-hexanone



Original Peak Response = 8180

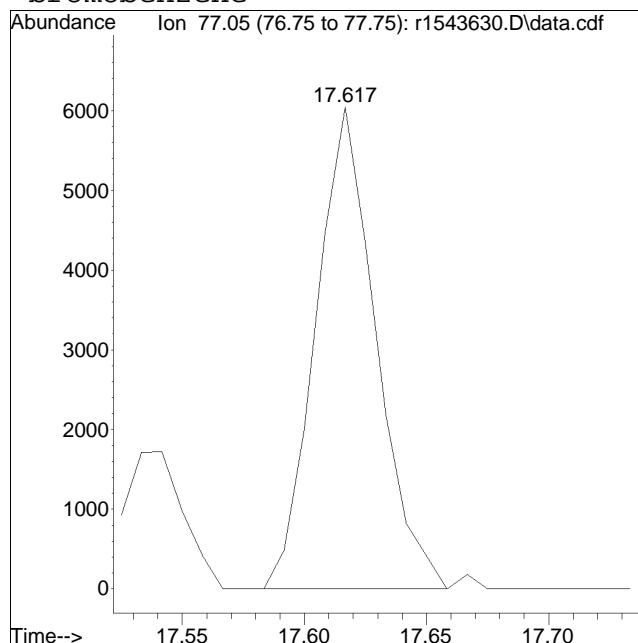
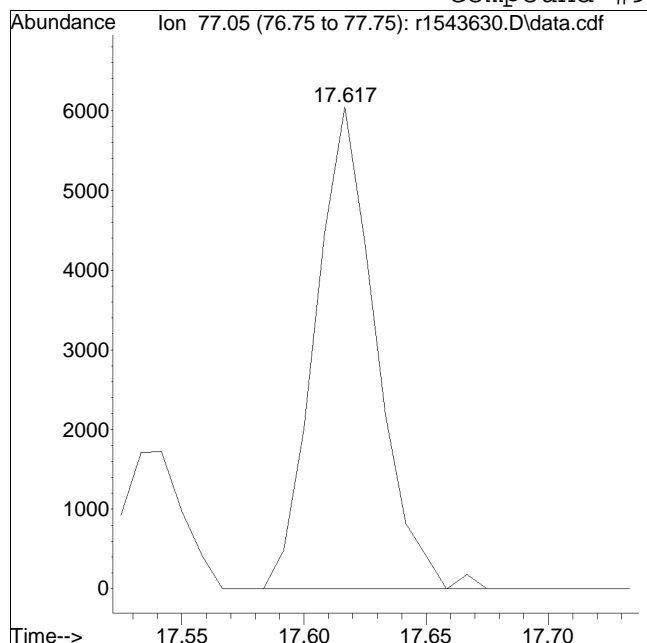
Manual Peak Response = 7108 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #92: bromobenzene



Original Peak Response = 10461

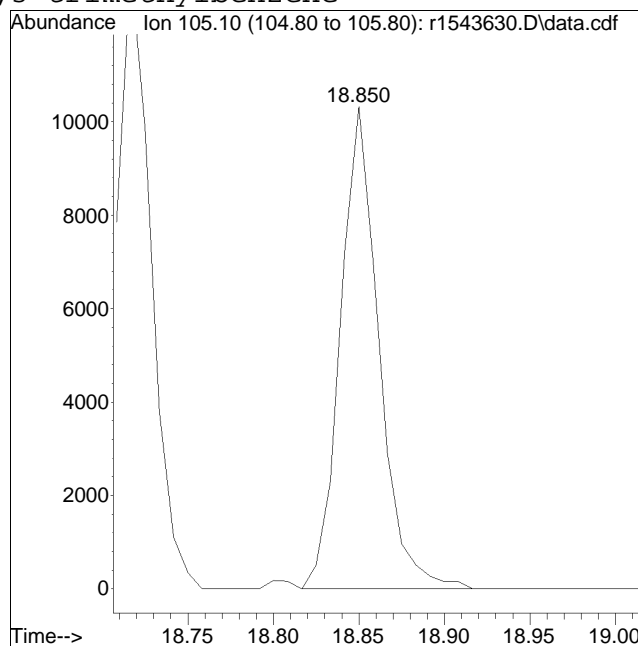
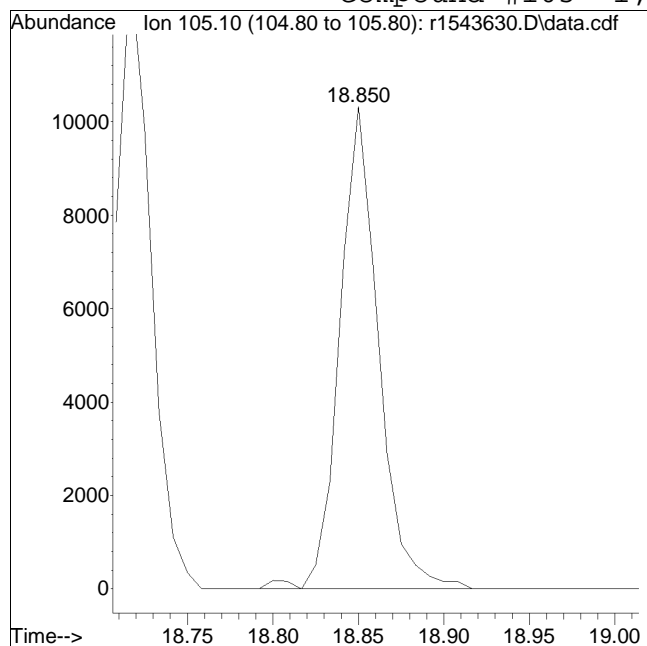
Manual Peak Response = 10370 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #105: 1,2,3-trimethylbenzene



Original Peak Response = 16323

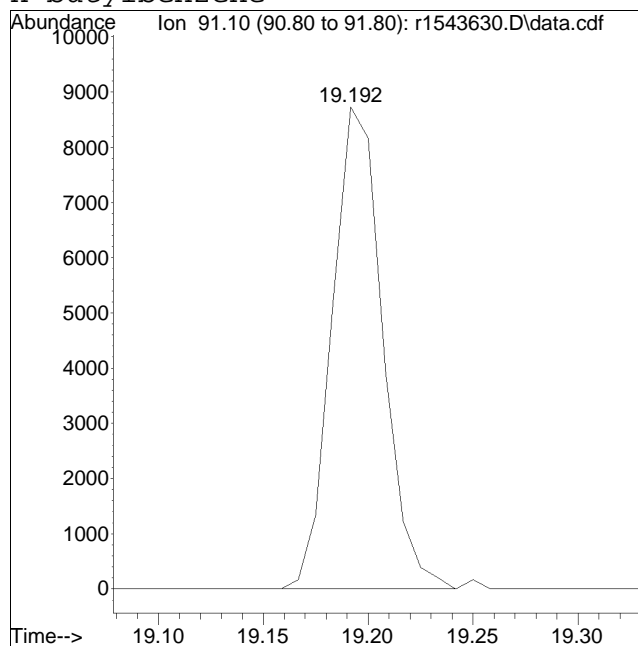
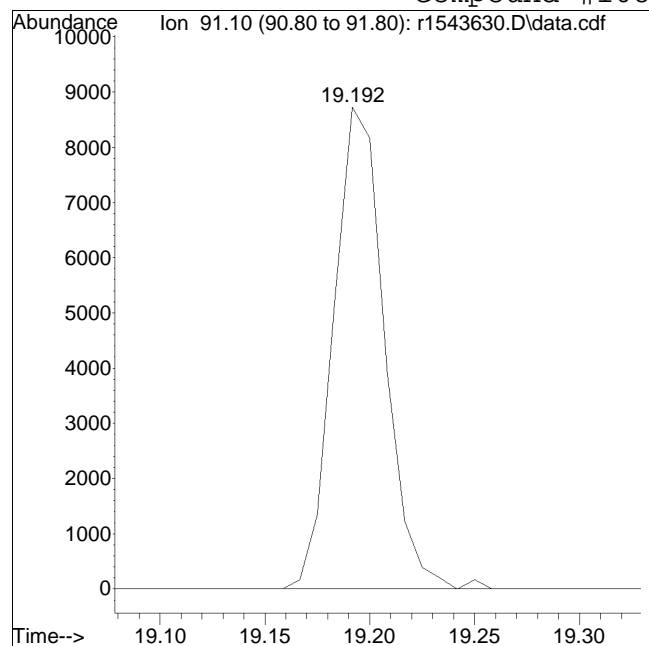
Manual Peak Response = 16150 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543630.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 7 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 3/23/2024 9:48 am

Compound #108: n-butylbenzene



Original Peak Response = 14772

Manual Peak Response = 14688 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543631.D
 Acq On : 22 Mar 2024 10:59 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.5
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:22 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.133	49	365733	10.000	ppbV	0.00
Standard Area =	379489		Recovery =	96.38%		
43) 1,4-difluorobenzene	11.373	114	778188	10.000	ppbV	0.00
Standard Area =	787888		Recovery =	98.77%		
67) chlorobenzene-D5	16.067	54	162718	10.000	ppbV	0.00
Standard Area =	172589		Recovery =	94.28%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.008	65	227958	9.711	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	97.11%		
69) toluene-D8	14.208	98	619754	8.307	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	83.07%		
90) bromofluorobenzene	17.425	95	408761	8.670	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	86.70%		
Target Compounds						
2) chlorodifluoromethane	3.904	51	22623	0.582	ppbV	100
3) propylene	3.934	41	13200M6	0.510	ppbV	
4) propane	3.952	29	15588	0.510	ppbV #	94
5) dichlorodifluoromethane	4.006	85	21525	0.518	ppbV	97
6) chloromethane	4.174	50	11786	0.513	ppbV	98
7) Freon-114	4.276	85	24011	0.506	ppbV	97
8) methanol	4.348	31	53567	3.931	ppbV #	76
9) vinyl chloride	4.402	62	12339	0.444	ppbV	96
10) 1,3-butadiene	4.546	54	10104	0.500	ppbV	99
11) butane	4.606	43	20108	0.432	ppbV	99
12) acetaldehyde	4.306	29	38890	2.991	ppbV	94
13) bromomethane	4.834	94	8619	0.442	ppbV	99
14) chloroethane	5.026	64	5882	0.425	ppbV	94
15) ethanol	5.170	31	62895	3.244	ppbV	98
16) dichlorofluoromethane	5.134	67	23324	0.431	ppbV	99
17) vinyl bromide	5.403	106	7604	0.396	ppbV	95
18) acrolein	5.547	56	5909	0.552	ppbV #	81
19) acetone	5.690	43	75662	2.148	ppbV #	99
20) acetonitrile	5.403	41	12455	0.432	ppbV	95
21) trichlorofluoromethane	5.863	101	14461	0.404	ppbV	100
22) isopropyl alcohol	5.983	45	51147	1.142	ppbV	99
23) acrylonitrile	6.207	53	10189	0.515	ppbV	97
24) pentane	6.263	43	23632	0.411	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543631.D
 Acq On : 22 Mar 2024 10:59 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.5
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:22 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.310	31	24360	0.423	ppbV	94
26) 1,1-dichloroethene	6.570	61	15639	0.383	ppbV	98
27) tertiary butyl alcohol	6.666	59	18887	0.377	ppbV #	89
28) methylene chloride	6.714	49	14443	0.495	ppbV	93
29) 3-chloropropene	6.846	41	15289	0.372	ppbV	98
30) carbon disulfide	7.026	76	26597	0.396	ppbV #	78
31) Freon 113	7.014	101	15796	0.374	ppbV	94
32) trans-1,2-dichloroethene	7.775	61	13932M6	0.346	ppbV	
33) 1,1-dichloroethane	7.992	63	18294	0.354	ppbV	98
34) MTBE	8.083	73	24719	0.409	ppbV	98
35) vinyl acetate	8.192	43	22871	0.406	ppbV	100
36) 2-butanone	8.467	43	23811M6	0.409	ppbV	
37) cis-1,2-dichloroethene	8.950	61	13769	0.358	ppbV	98
38) Ethyl Acetate	9.233	61	3351	0.335	ppbV	57
39) chloroform	9.292	83	19363	0.468	ppbV	99
40) Tetrahydrofuran	9.758	42	13808	0.376	ppbV	98
41) 2,2-dichloropropane	9.317	77	15166	0.469	ppbV	95
42) 1,2-dichloroethane	10.133	62	13363	0.413	ppbV	99
44) hexane	9.200	57	18894	0.412	ppbV #	45
45) diisopropyl ether	9.217	87	8550	0.418	ppbV	88
46) tert-butyl ethyl ether	9.825	59	34461	0.411	ppbV	96
48) 1,1,1-trichloroethane	10.425	97	14434	0.412	ppbV	97
49) 1,1-dichloropropene	10.787	75	14898	0.475	ppbV	99
50) benzene	10.947	78	34232	0.472	ppbV	99
51) thiophene	11.100	84	19890	0.454	ppbV	96
52) carbon tetrachloride	11.120	117	13444	0.488	ppbV	95
53) cyclohexane	11.267	56	20122	0.423	ppbV	95
54) tert-amyl methyl ether	11.660	73	27108	0.440	ppbV	97
55) dibromomethane	11.867	93	8958	0.402	ppbV	99
56) 1,2-dichloropropane	11.893	63	12034	0.384	ppbV	95
57) bromodichloromethane	12.127	83	18076	0.475	ppbV	99
58) 1,4-dioxane	12.187	88	6513	0.396	ppbV	97
59) trichloroethene	12.180	130	10645	0.395	ppbV	96
60) 2,2,4-trimethylpentane	12.220	57	62040	0.418	ppbV	99
61) methyl methacrylate	12.427	41	13056	0.392	ppbV	98
62) heptane	12.540	43	24597	0.443	ppbV	99
63) cis-1,3-dichloropropene	13.192	75	15426	0.426	ppbV	99
64) 4-methyl-2-pentanone	13.242	43	26997	0.425	ppbV	99
65) trans-1,3-dichloropropene	13.817	75	12225	0.422	ppbV	95
66) 1,1,2-trichloroethane	14.008	97	10730	0.386	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543631.D
 Acq On : 22 Mar 2024 10:59 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.5
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:22 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	34527	0.379	ppbV	99
70) 2-methylthiophene	14.383	97	23593	0.363	ppbV	98
71) 1,3-dichloropropane	14.350	76	18899	0.469	ppbV	99
72) 2-hexanone	14.617	43	23104	0.392	ppbV	94
73) 3-methylthiophene	14.575	97	24763	0.358	ppbV	99
74) dibromochloromethane	14.758	129	12707	0.358	ppbV	90
75) 1,2-dibromoethane	15.008	107	15991	0.413	ppbV	99
76) butyl acetate	15.250	73	3337	0.329	ppbV	74
77) octane	15.333	85	15923	0.470	ppbV	91
78) tetrachloroethene	15.458	166	12240	0.400	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.092	131	10120	0.360	ppbV	94
80) chlorobenzene	16.100	112	26693	0.424	ppbV	98
81) ethylbenzene	16.450	91	41631	0.357	ppbV	96
82) 2-ethylthiophene	16.492	97	26989	0.355	ppbV	99
83) m+p-xylene	16.617	91	68894	0.746	ppbV	100
84) bromoform	16.683	173	9237	0.312	ppbV	96
85) styrene	16.933	104	23766	0.351	ppbV	95
86) 1,1,2,2-tetrachloroethane	17.025	83	25867	0.406	ppbV	92
87) o-xylene	17.033	91	34267	0.365	ppbV	99
88) 1,2,3-trichloropropane	17.142	75	21664	0.442	ppbV	95
89) nonane	17.225	43	36389	0.424	ppbV	95
91) isopropylbenzene	17.542	105	44120	0.398	ppbV	100
92) bromobenzene	17.617	77	28364	0.444	ppbV	95
93) 2-chlorotoluene	17.942	126	10888	0.353	ppbV	90
94) n-propylbenzene	17.967	120	12773	0.362	ppbV	91
95) 4-chlorotoluene	18.000	126	10675	0.350	ppbV	88
96) 4-ethyl toluene	18.092	105	44937	0.387	ppbV	100
97) 1,3,5-trimethylbenzene	18.158	105	46348	0.409	ppbV	95
98) tert-butylbenzene	18.500	119	41050	0.406	ppbV	100
99) 1,2,4-trimethylbenzene	18.500	105	39109	0.392	ppbV	94
100) decane	18.575	57	37252	0.362	ppbV	94
101) Benzyl Chloride	18.625	91	16730	0.251	ppbV	96
102) 1,3-dichlorobenzene	18.633	146	22063	0.365	ppbV	95
103) 1,4-dichlorobenzene	18.683	146	21861	0.366	ppbV	97
104) sec-butylbenzene	18.717	105	56724	0.401	ppbV	98
105) 1,2,3-trimethylbenzene	18.850	105	42958	0.438	ppbV	95
106) p-isopropyltoluene	18.850	119	59205	0.480	ppbV	98
107) 1,2-dichlorobenzene	18.975	146	21008	0.361	ppbV	94
108) n-butylbenzene	19.192	91	42544	0.354	ppbV	97
109) indan	19.025	117	35551	0.383	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543631.D
 Acq On : 22 Mar 2024 10:59 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD0.5
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:22 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

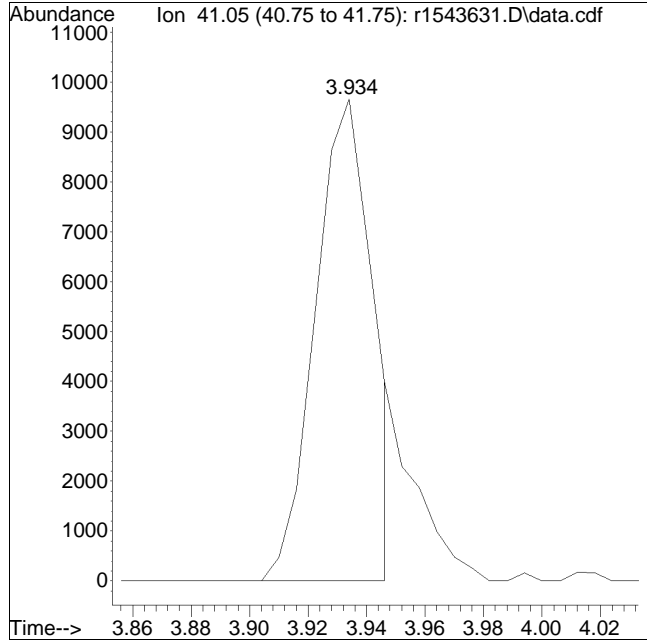
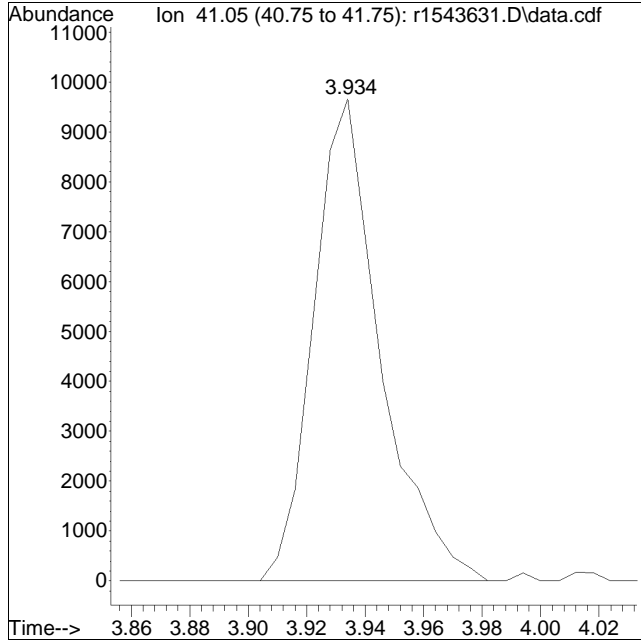
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	23200	0.378	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.350	75	10443	0.387	ppbV	85
112) undecane	19.600	57	39948	0.347	ppbV	94
113) 1,2,4,5-tetramethylben...	19.833	119	1652	0.341	ppbV #	88
114) dodecane	20.517	57	34872	0.317	ppbV	90
115) 1,2,4-trichlorobenzene	20.467	180	11934	0.273	ppbV	93
116) naphthalene	20.592	128	36843	0.299	ppbV	97
117) 1,2,3-trichlorobenzene	20.842	180	12094	0.303	ppbV	99
118) benzothiophene	20.650	134	38111	0.232	ppbV	99
119) hexachlorobutadiene	20.908	225	14353	0.376	ppbV	92
120) 2-methylnaphthalene	21.742	142	4062	0.102	ppbV #	89
121) 1-methylnaphthalene	21.942	142	9092	0.155	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543631.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 15325

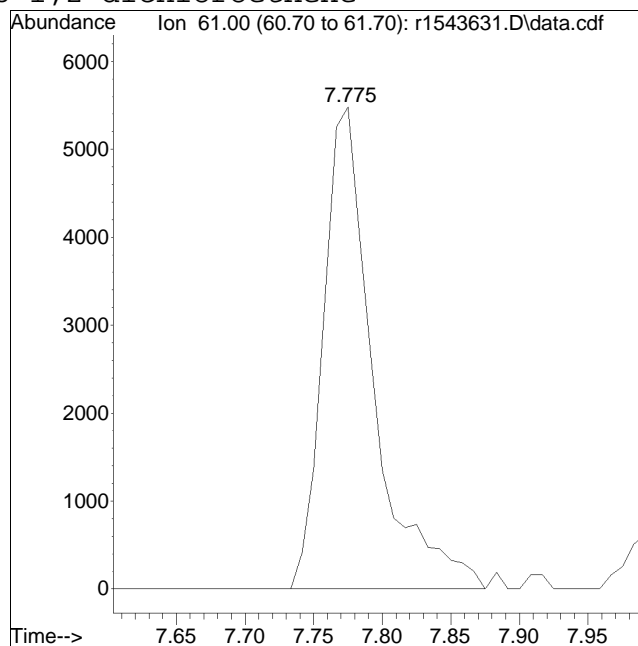
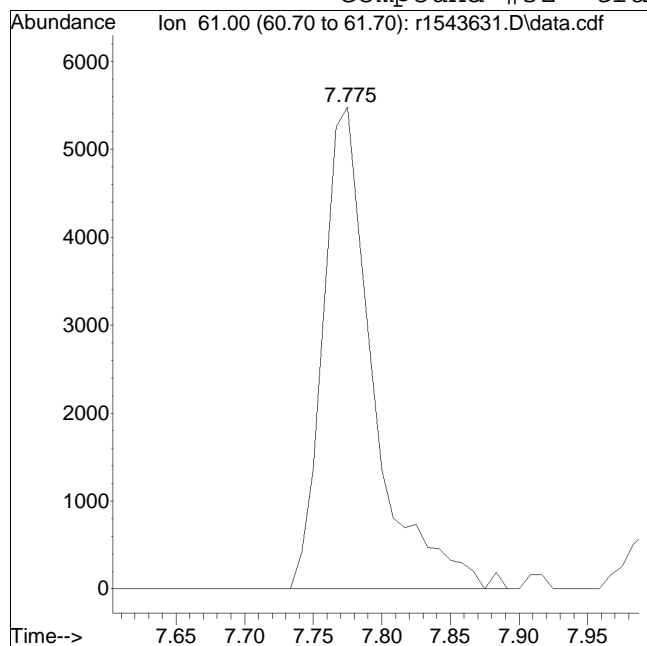
Manual Peak Response = 13200 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543631.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 3/23/2024 9:48 am

Compound #32: trans-1,2-dichloroethene



Original Peak Response = 14027

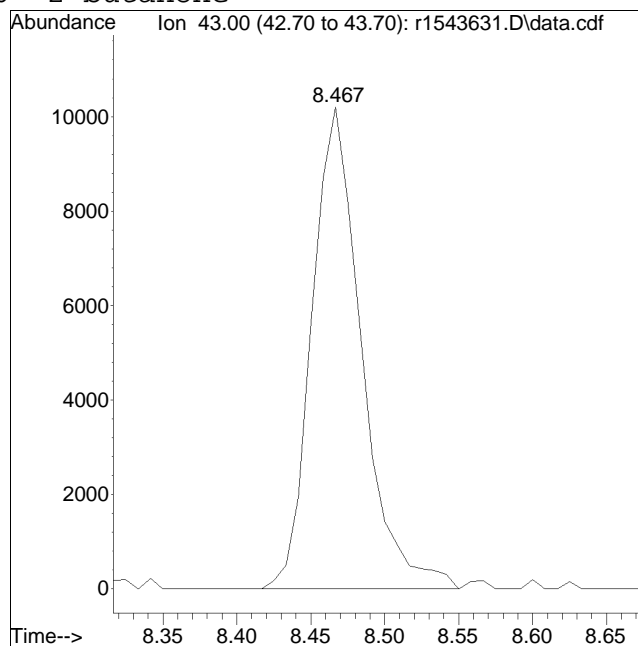
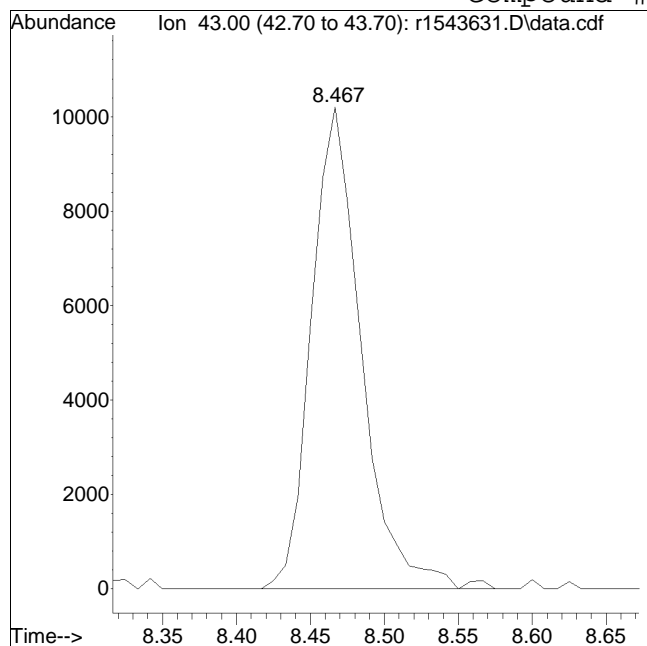
Manual Peak Response = 13932 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543631.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 3/23/2024 9:48 am

Compound #36: 2-butanone



Original Peak Response = 23979

Manual Peak Response = 23811 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543632.D
 Acq On : 22 Mar 2024 11:42 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:27 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	371040	10.000	ppbV	0.00
Standard Area = 379489			Recovery =		97.77%	
43) 1,4-difluorobenzene	11.373	114	781666	10.000	ppbV	0.00
Standard Area = 787888			Recovery =		99.21%	
67) chlorobenzene-D5	16.058	54	166929	10.000	ppbV	0.00
Standard Area = 172589			Recovery =		96.72%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.008	65	230441	9.773	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		97.73%	
69) toluene-D8	14.208	98	629270	8.222	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		82.22%	
90) bromofluorobenzene	17.425	95	418670	8.657	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		86.57%	
Target Compounds						
2) chlorodifluoromethane	3.904	51	40180	1.018	ppbV	100
3) propylene	3.934	41	23265M6	0.887	ppbV	
4) propane	3.958	29	31176	1.005	ppbV	96
5) dichlorodifluoromethane	4.006	85	43814	1.040	ppbV	99
6) chloromethane	4.174	50	23883	1.025	ppbV	100
7) Freon-114	4.282	85	49443	1.027	ppbV	99
8) methanol	4.354	31	104092	7.530	ppbV	88
9) vinyl chloride	4.402	62	25581	0.907	ppbV	99
10) 1,3-butadiene	4.552	54	20481	1.000	ppbV	94
11) butane	4.606	43	40187	0.852	ppbV	96
12) acetaldehyde	4.306	29	77147	5.848	ppbV	97
13) bromomethane	4.834	94	16621	0.839	ppbV	100
14) chloroethane	5.026	64	11704	0.834	ppbV	99
15) ethanol	5.170	31	128175	6.516	ppbV	99
16) dichlorofluoromethane	5.134	67	44038	0.803	ppbV	99
17) vinyl bromide	5.407	106	15133	0.777	ppbV	96
18) acrolein	5.543	56	11292	1.040	ppbV #	90
19) acetone	5.687	43	150258	4.204	ppbV	100
20) acetonitrile	5.397	41	24019	0.821	ppbV	100
21) trichlorofluoromethane	5.867	101	29664	0.817	ppbV	94
22) isopropyl alcohol	5.983	45	99718	2.195	ppbV	100
23) acrylonitrile	6.203	53	20990	1.046	ppbV	96
24) pentane	6.270	43	48651	0.835	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543632.D
 Acq On : 22 Mar 2024 11:42 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:27 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.303	31	48421	0.830	ppbV	96
26) 1,1-dichloroethene	6.570	61	31069	0.750	ppbV	99
27) tertiary butyl alcohol	6.660	59	37369	0.735	ppbV	95
28) methylene chloride	6.720	49	28659	0.969	ppbV	96
29) 3-chloropropene	6.846	41	30539	0.733	ppbV	95
30) carbon disulfide	7.026	76	53963	0.791	ppbV #	89
31) Freon 113	7.014	101	31923	0.745	ppbV	97
32) trans-1,2-dichloroethene	7.775	61	29942	0.733	ppbV	94
33) 1,1-dichloroethane	8.000	63	37857	0.721	ppbV	99
34) MTBE	8.083	73	49841	0.814	ppbV	97
35) vinyl acetate	8.192	43	47087	0.825	ppbV	100
36) 2-butanone	8.458	43	50073	0.848	ppbV	99
37) cis-1,2-dichloroethene	8.950	61	27991	0.718	ppbV	98
38) Ethyl Acetate	9.233	61	6805	0.671	ppbV #	49
39) chloroform	9.292	83	40237	0.959	ppbV	99
40) Tetrahydrofuran	9.750	42	28264	0.759	ppbV	97
41) 2,2-dichloropropane	9.317	77	30624	0.933	ppbV	95
42) 1,2-dichloroethane	10.133	62	26375	0.803	ppbV	98
44) hexane	9.208	57	38762	0.841	ppbV	77
45) diisopropyl ether	9.208	87	17832	0.867	ppbV	96
46) tert-butyl ethyl ether	9.825	59	69823	0.828	ppbV	99
48) 1,1,1-trichloroethane	10.417	97	30261	0.860	ppbV	98
49) 1,1-dichloropropene	10.787	75	30096	0.956	ppbV	99
50) benzene	10.947	78	68995	0.948	ppbV	98
51) thiophene	11.100	84	39778	0.904	ppbV	97
52) carbon tetrachloride	11.120	117	27587	0.997	ppbV	100
53) cyclohexane	11.267	56	41430	0.867	ppbV	99
54) tert-amyl methyl ether	11.653	73	55270	0.893	ppbV	98
55) dibromomethane	11.867	93	18436	0.824	ppbV	98
56) 1,2-dichloropropane	11.900	63	23908	0.759	ppbV	94
57) bromodichloromethane	12.127	83	37996	0.994	ppbV	98
58) 1,4-dioxane	12.187	88	13676	0.827	ppbV	97
59) trichloroethene	12.173	130	21530	0.795	ppbV	94
60) 2,2,4-trimethylpentane	12.227	57	126524M6	0.848	ppbV	
61) methyl methacrylate	12.427	41	27133	0.811	ppbV	99
62) heptane	12.540	43	50896	0.912	ppbV	94
63) cis-1,3-dichloropropene	13.192	75	32450	0.892	ppbV	95
64) 4-methyl-2-pentanone	13.242	43	56407	0.885	ppbV	95
65) trans-1,3-dichloropropene	13.817	75	26441	0.909	ppbV	99
66) 1,1,2-trichloroethane	14.008	97	21634	0.776	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543632.D
 Acq On : 22 Mar 2024 11:42 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:27 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	71658	0.767	ppbV	93
70) 2-methylthiophene	14.383	97	48709	0.731	ppbV	98
71) 1,3-dichloropropane	14.342	76	38783	0.939	ppbV	96
72) 2-hexanone	14.608	43	50258	0.832	ppbV	97
73) 3-methylthiophene	14.575	97	51766	0.729	ppbV	99
74) dibromochloromethane	14.758	129	27205	0.748	ppbV	96
75) 1,2-dibromoethane	15.008	107	32830	0.826	ppbV	96
76) butyl acetate	15.242	73	7867	0.757	ppbV	92
77) octane	15.325	85	29383	0.846	ppbV	91
78) tetrachloroethene	15.458	166	24647	0.785	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.083	131	21361	0.740	ppbV	93
80) chlorobenzene	16.100	112	52375	0.810	ppbV	98
81) ethylbenzene	16.450	91	86307	0.722	ppbV	97
82) 2-ethylthiophene	16.483	97	57201	0.732	ppbV	99
83) m+p-xylene	16.608	91	141832	1.498	ppbV	96
84) bromoform	16.683	173	20093	0.661	ppbV	98
85) styrene	16.933	104	51749	0.746	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.025	83	54434	0.832	ppbV	97
87) o-xylene	17.025	91	71974	0.747	ppbV	97
88) 1,2,3-trichloropropane	17.142	75	44836	0.892	ppbV	99
89) nonane	17.225	43	75244	0.855	ppbV	95
91) isopropylbenzene	17.542	105	90580	0.796	ppbV	98
92) bromobenzene	17.617	77	58645	0.895	ppbV	93
93) 2-chlorotoluene	17.942	126	23023	0.728	ppbV	96
94) n-propylbenzene	17.967	120	27406	0.757	ppbV	96
95) 4-chlorotoluene	18.000	126	22071	0.706	ppbV	92
96) 4-ethyl toluene	18.092	105	95344	0.800	ppbV	96
97) 1,3,5-trimethylbenzene	18.150	105	83068	0.714	ppbV	97
98) tert-butylbenzene	18.492	119	86414	0.832	ppbV	99
99) 1,2,4-trimethylbenzene	18.500	105	82972	0.811	ppbV	97
100) decane	18.575	57	79995	0.757	ppbV	94
101) Benzyl Chloride	18.617	91	39060	0.571	ppbV	97
102) 1,3-dichlorobenzene	18.633	146	46878	0.756	ppbV	96
103) 1,4-dichlorobenzene	18.683	146	47110	0.769	ppbV	99
104) sec-butylbenzene	18.717	105	117445	0.809	ppbV	99
105) 1,2,3-trimethylbenzene	18.850	105	85184	0.846	ppbV	95
106) p-isopropyltoluene	18.842	119	122625M6	0.968	ppbV	
107) 1,2-dichlorobenzene	18.967	146	43797	0.733	ppbV	97
108) n-butylbenzene	19.192	91	91378	0.740	ppbV	99
109) indan	19.017	117	75341	0.791	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543632.D
 Acq On : 22 Mar 2024 11:42 PM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD1.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:27 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

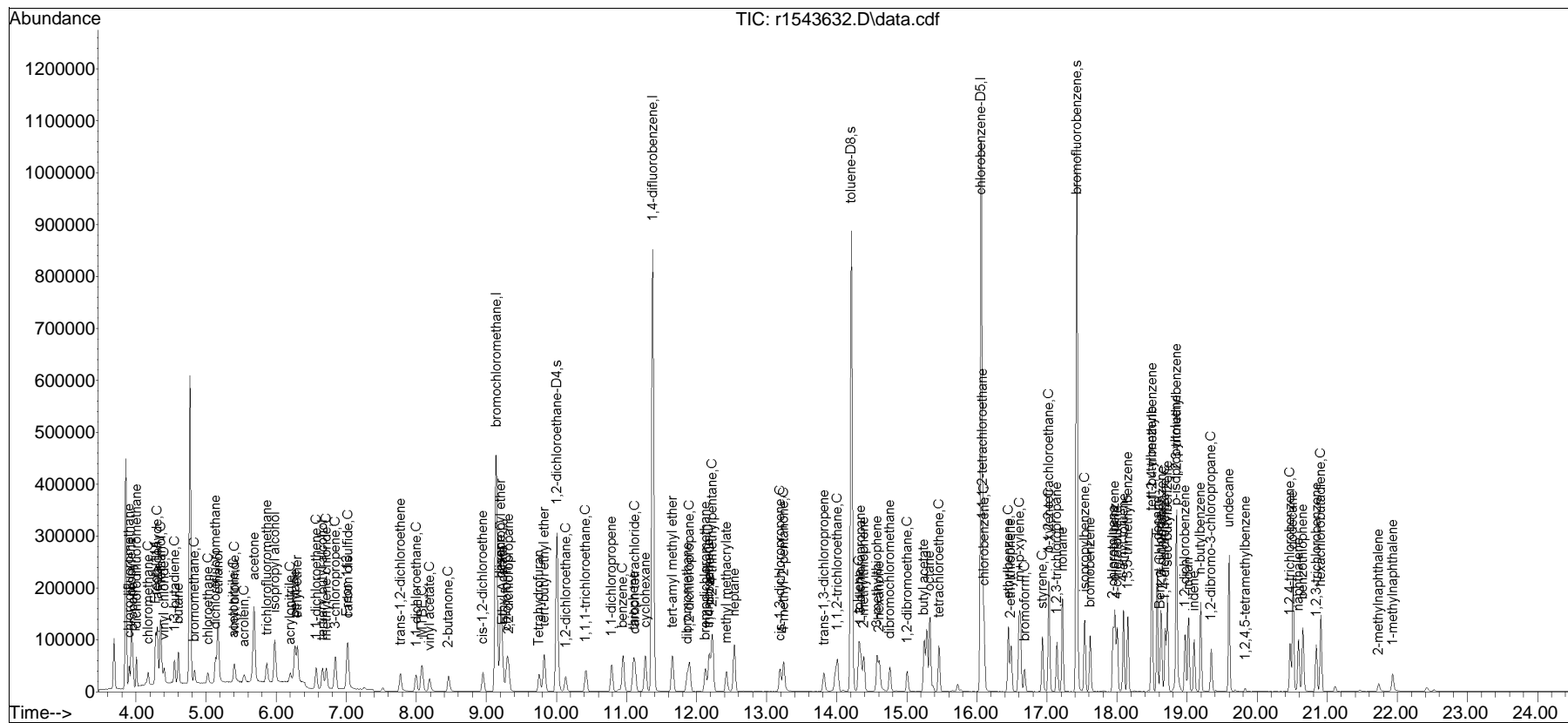
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	49789	0.791	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.342	75	23452	0.848	ppbV	92
112) undecane	19.600	57	87229	0.739	ppbV	95
113) 1,2,4,5-tetramethylben...	19.833	119	3737	0.753	ppbV	94
114) dodecane	20.508	57	82980	0.735	ppbV	94
115) 1,2,4-trichlorobenzene	20.467	180	28756	0.642	ppbV	98
116) naphthalene	20.592	128	83194	0.658	ppbV	96
117) 1,2,3-trichlorobenzene	20.842	180	26942	0.657	ppbV	98
118) benzothiophene	20.650	134	93749	0.555	ppbV	99
119) hexachlorobutadiene	20.908	225	29892	0.763	ppbV	96
120) 2-methylnaphthalene	21.733	142	14017	0.343	ppbV	97
121) 1-methylnaphthalene	21.933	142	25715	0.427	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543632.D
Acq On : 22 Mar 2024 11:42 PM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD1.0
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

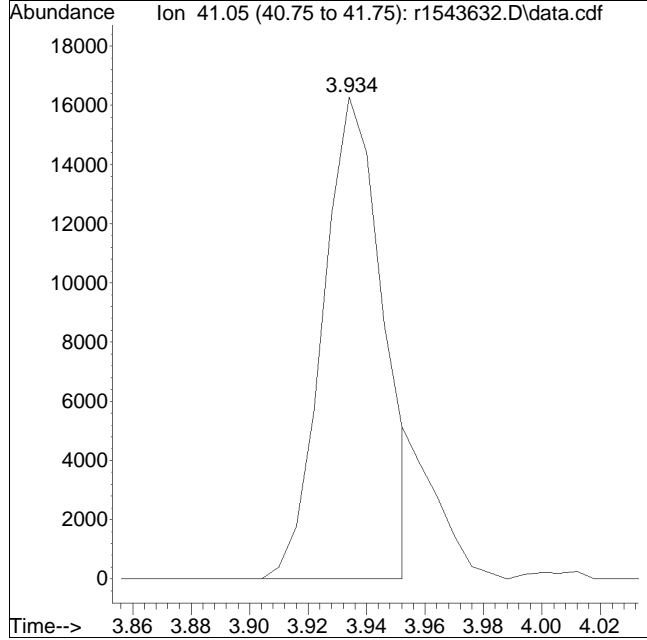
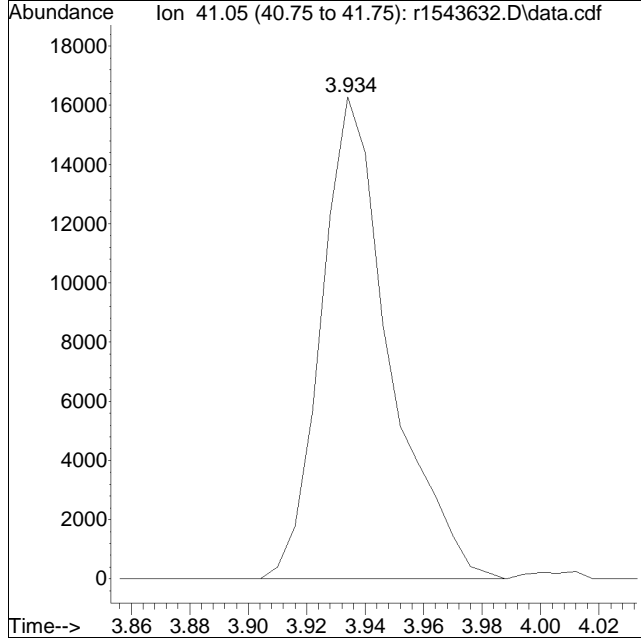
Quant Time: Mar 23 09:48:27 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543632.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 26442

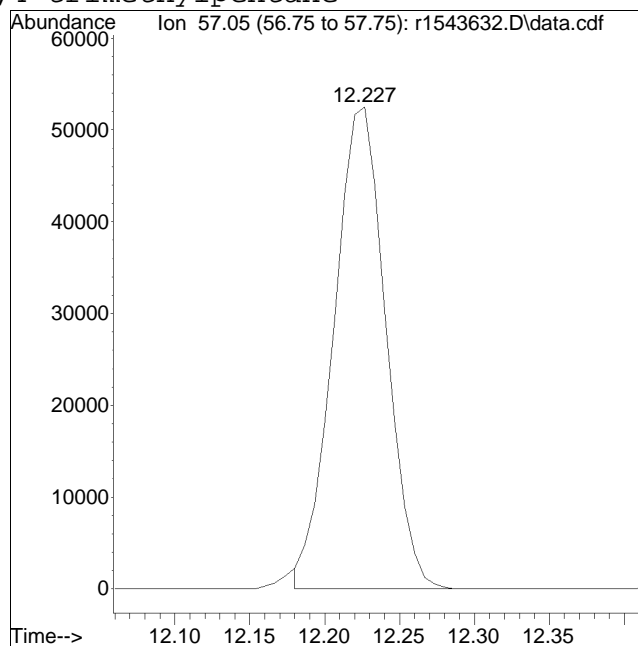
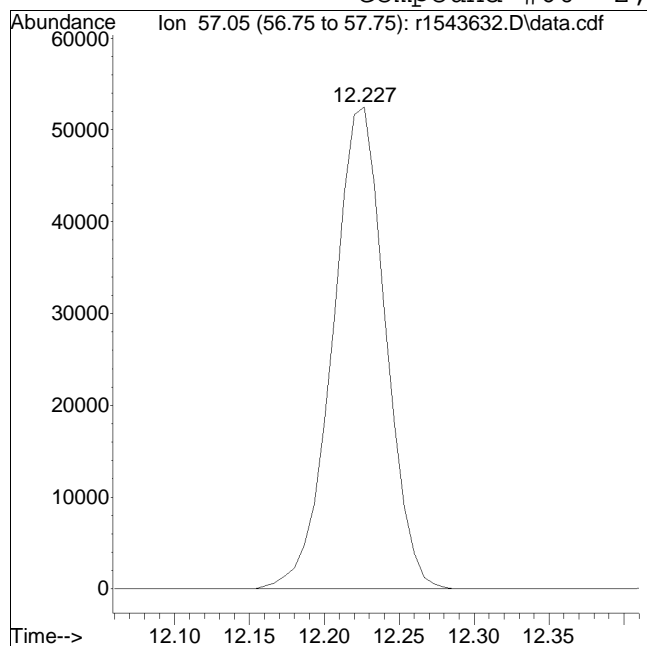
Manual Peak Response = 23265 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543632.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 3/23/2024 9:48 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 128380

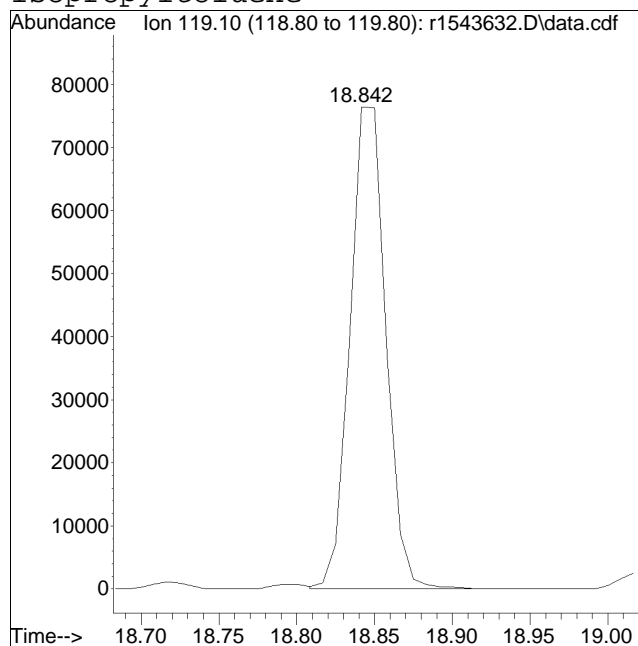
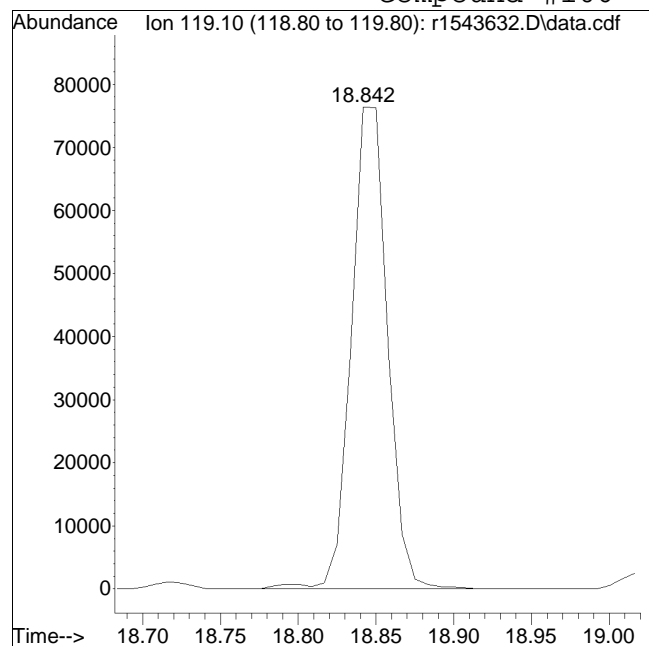
Manual Peak Response = 126524 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543632.D Operator : AIRLAB15:TJS
Date Inj'd : 3/22/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 3/23/2024 9:48 am

Compound #106: p-isopropyltoluene



Original Peak Response = 123806

Manual Peak Response = 122625 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543633.D
 Acq On : 23 Mar 2024 12:23 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD5.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	370985	10.000	ppbV	0.00
Standard Area =	379489		Recovery =		97.76%	
43) 1,4-difluorobenzene	11.373	114	772160	10.000	ppbV	0.00
Standard Area =	787888		Recovery =		98.00%	
67) chlorobenzene-D5	16.058	54	167580	10.000	ppbV	0.00
Standard Area =	172589		Recovery =		97.10%	
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.008	65	226968	9.745	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		97.45%	
69) toluene-D8	14.208	98	616356	8.022	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		80.22%	
90) bromofluorobenzene	17.425	95	433529	8.929	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		89.29%	
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.904	51	230527	5.842	ppbV	99
3) propylene	3.934	41	117630M6	4.483	ppbV	
4) propane	3.958	29	181774	5.864	ppbV	99
5) dichlorodifluoromethane	4.006	85	261078	6.199	ppbV	100
6) chloromethane	4.174	50	141862	6.089	ppbV	99
7) Freon-114	4.276	85	298059	6.195	ppbV	96
8) methanol	4.342	31	439901	31.827	ppbV	97
9) vinyl chloride	4.402	62	153310	5.435	ppbV	98
10) 1,3-butadiene	4.546	54	128530	6.276	ppbV	100
11) butane	4.606	43	236979	5.023	ppbV	99
12) acetaldehyde	4.300	29	466874	35.393	ppbV	98
13) bromomethane	4.834	94	108076	5.459	ppbV	97
14) chloroethane	5.020	64	71601	5.101	ppbV	99
15) ethanol	5.158	31	720485	36.634	ppbV	99
16) dichlorofluoromethane	5.134	67	246374	4.492	ppbV	98
17) vinyl bromide	5.403	106	95861	4.926	ppbV	99
18) acrolein	5.533	56	66463	6.120	ppbV	97
19) acetone	5.673	43	893977	25.016	ppbV	100
20) acetonitrile	5.390	41	142585	4.875	ppbV	100
21) trichlorofluoromethane	5.867	101	183376	5.049	ppbV	100
22) isopropyl alcohol	5.960	45	578631	12.739	ppbV	99
23) acrylonitrile	6.193	53	116319	5.797	ppbV	100
24) pentane	6.267	43	286292	4.914	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543633.D
 Acq On : 23 Mar 2024 12:23 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD5.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.297	31	290244	4.973	ppbV	99
26) 1,1-dichloroethene	6.570	61	192989	4.661	ppbV	98
27) tertiary butyl alcohol	6.636	59	233221	4.588	ppbV	97
28) methylene chloride	6.714	49	170348	5.761	ppbV	97
29) 3-chloropropene	6.846	41	188222	4.520	ppbV	99
30) carbon disulfide	7.020	76	347227	5.092	ppbV	98
31) Freon 113	7.014	101	193284	4.514	ppbV	95
32) trans-1,2-dichloroethene	7.775	61	186003	4.557	ppbV	99
33) 1,1-dichloroethane	8.000	63	231724	4.416	ppbV	98
34) MTBE	8.067	73	314351	5.133	ppbV	99
35) vinyl acetate	8.183	43	285724	5.006	ppbV	99
36) 2-butanone	8.450	43	305319	5.172	ppbV	99
37) cis-1,2-dichloroethene	8.950	61	177207	4.548	ppbV	100
38) Ethyl Acetate	9.225	61	44612	4.400	ppbV	59
39) chloroform	9.292	83	246286	5.873	ppbV	99
40) Tetrahydrofuran	9.733	42	181990	4.889	ppbV	99
41) 2,2-dichloropropane	9.317	77	189625	5.778	ppbV	98
42) 1,2-dichloroethane	10.133	62	160408	4.884	ppbV	98
44) hexane	9.200	57	243779	5.353	ppbV	83
45) diisopropyl ether	9.200	87	111954	5.511	ppbV	94
46) tert-butyl ethyl ether	9.817	59	437758	5.255	ppbV	98
48) 1,1,1-trichloroethane	10.417	97	188925	5.434	ppbV	99
49) 1,1-dichloropropene	10.787	75	189081	6.079	ppbV	99
50) benzene	10.947	78	430880	5.990	ppbV	98
51) thiophene	11.100	84	256445	5.902	ppbV	98
52) carbon tetrachloride	11.120	117	177092	6.481	ppbV	97
53) cyclohexane	11.267	56	253911	5.379	ppbV	99
54) tert-amyl methyl ether	11.640	73	349310	5.713	ppbV	100
55) dibromomethane	11.867	93	115653	5.235	ppbV	98
56) 1,2-dichloropropane	11.893	63	152390	4.896	ppbV	98
57) bromodichloromethane	12.127	83	243676	6.454	ppbV	100
58) 1,4-dioxane	12.167	88	88452	5.413	ppbV	98
59) trichloroethene	12.173	130	137733	5.148	ppbV	95
60) 2,2,4-trimethylpentane	12.220	57	780386M6	5.295	ppbV	
61) methyl methacrylate	12.413	41	185415	5.612	ppbV	98
62) heptane	12.533	43	314181	5.698	ppbV	97
63) cis-1,3-dichloropropene	13.183	75	218548	6.081	ppbV	98
64) 4-methyl-2-pentanone	13.225	43	370441	5.884	ppbV	98
65) trans-1,3-dichloropropene	13.808	75	177992	6.194	ppbV	98
66) 1,1,2-trichloroethane	14.008	97	137500	4.990	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543633.D
 Acq On : 23 Mar 2024 12:23 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD5.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	461722	4.923	ppbV	97
70) 2-methylthiophene	14.383	97	313264	4.680	ppbV	98
71) 1,3-dichloropropane	14.342	76	238207	5.746	ppbV	98
72) 2-hexanone	14.592	43	340525	5.613	ppbV	98
73) 3-methylthiophene	14.575	97	336065	4.711	ppbV	97
74) dibromochloromethane	14.758	129	190038	5.203	ppbV	98
75) 1,2-dibromoethane	15.000	107	214558	5.379	ppbV	99
76) butyl acetate	15.233	73	55933	5.361	ppbV	95
77) octane	15.325	85	184571	5.295	ppbV	97
78) tetrachloroethene	15.458	166	159121	5.047	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.083	131	138733	4.790	ppbV	95
80) chlorobenzene	16.100	112	339720	5.236	ppbV	98
81) ethylbenzene	16.450	91	573645	4.779	ppbV	100
82) 2-ethylthiophene	16.483	97	369415	4.712	ppbV	98
83) m+p-xylene	16.608	91	950295	9.998	ppbV	99
84) bromoform	16.675	173	150633	4.938	ppbV	99
85) styrene	16.933	104	345702	4.962	ppbV	99
86) 1,1,2,2-tetrachloroethane	17.025	83	364361	5.550	ppbV	99
87) o-xylene	17.025	91	478220	4.943	ppbV	100
88) 1,2,3-trichloropropane	17.142	75	288481	5.718	ppbV	99
89) nonane	17.217	43	480863	5.444	ppbV	96
91) isopropylbenzene	17.533	105	587917	5.143	ppbV	99
92) bromobenzene	17.617	77	373961	5.684	ppbV	93
93) 2-chlorotoluene	17.942	126	153133	4.826	ppbV	94
94) n-propylbenzene	17.967	120	184371	5.073	ppbV	96
95) 4-chlorotoluene	18.000	126	149892	4.778	ppbV	97
96) 4-ethyl toluene	18.092	105	624874	5.220	ppbV	99
97) 1,3,5-trimethylbenzene	18.150	105	607687	5.201	ppbV	100
98) tert-butylbenzene	18.492	119	564569	5.416	ppbV	99
99) 1,2,4-trimethylbenzene	18.500	105	562306	5.476	ppbV	97
100) decane	18.575	57	532393	5.019	ppbV	97
101) Benzyl Chloride	18.617	91	330246	4.813	ppbV	98
102) 1,3-dichlorobenzene	18.625	146	323236	5.191	ppbV	97
103) 1,4-dichlorobenzene	18.683	146	321107	5.220	ppbV	98
104) sec-butylbenzene	18.717	105	761163	5.222	ppbV	99
105) 1,2,3-trimethylbenzene	18.850	105	537213	5.313	ppbV	99
106) p-isopropyltoluene	18.842	119	756166	5.947	ppbV	100
107) 1,2-dichlorobenzene	18.967	146	302251	5.042	ppbV	99
108) n-butylbenzene	19.192	91	619933	5.004	ppbV	98
109) indan	19.017	117	517177	5.406	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543633.D
 Acq On : 23 Mar 2024 12:23 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD5.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

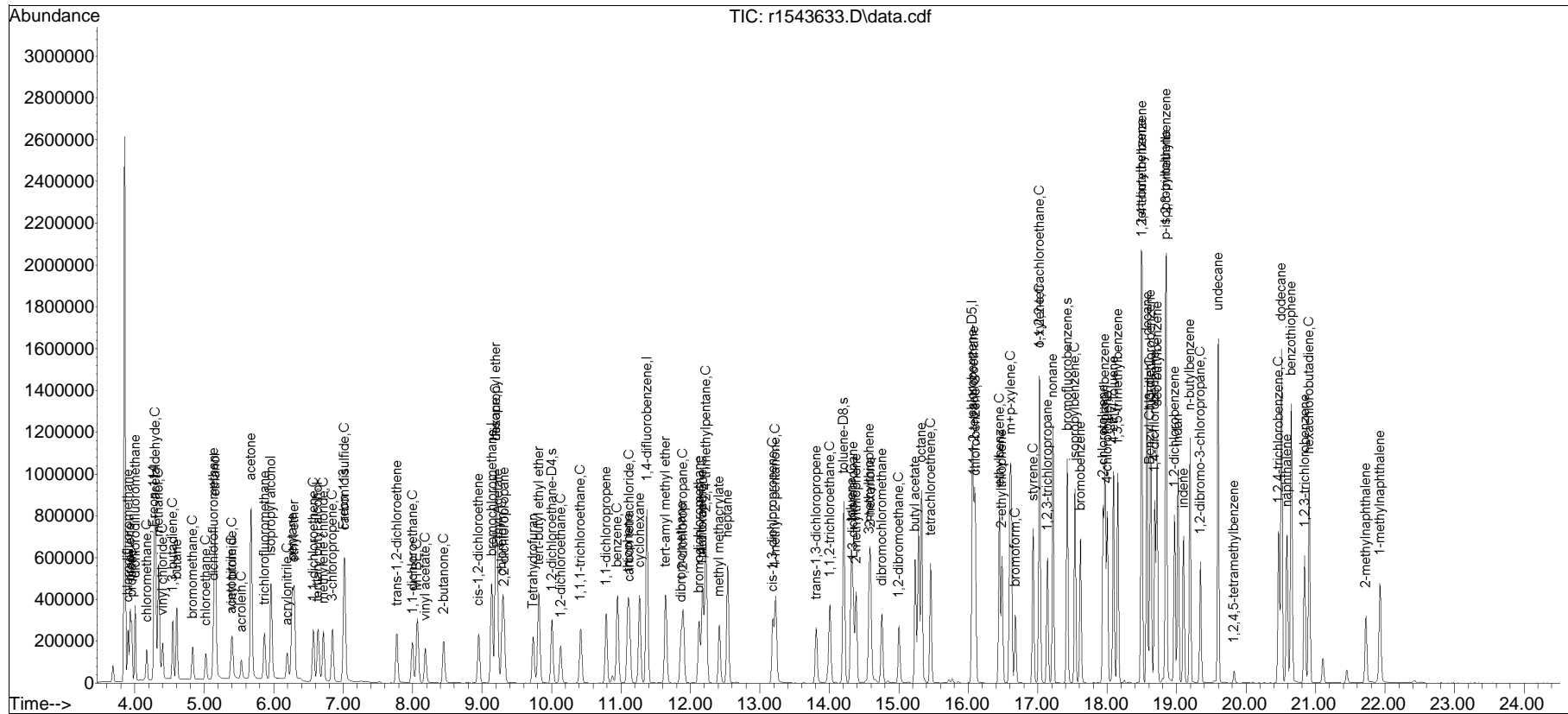
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	350257	5.542	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.342	75	160391	5.779	ppbV	99
112) undecane	19.600	57	599570	5.058	ppbV	97
113) 1,2,4,5-tetramethylben...	19.825	119	31632	6.349	ppbV	99
114) dodecane	20.508	57	571814	5.044	ppbV	98
115) 1,2,4-trichlorobenzene	20.467	180	220040	4.890	ppbV	98
116) naphthalene	20.592	128	607757	4.791	ppbV	100
117) 1,2,3-trichlorobenzene	20.842	180	189304	4.599	ppbV	96
118) benzothiophene	20.650	134	1016723	5.999	ppbV	99
119) hexachlorobutadiene	20.908	225	201443	5.125	ppbV	96
120) 2-methylnaphthalene	21.725	142	201946	4.919	ppbV	98
121) 1-methylnaphthalene	21.925	142	289851	4.792	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543633.D
Acq On : 23 Mar 2024 12:23 AM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD5.0
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

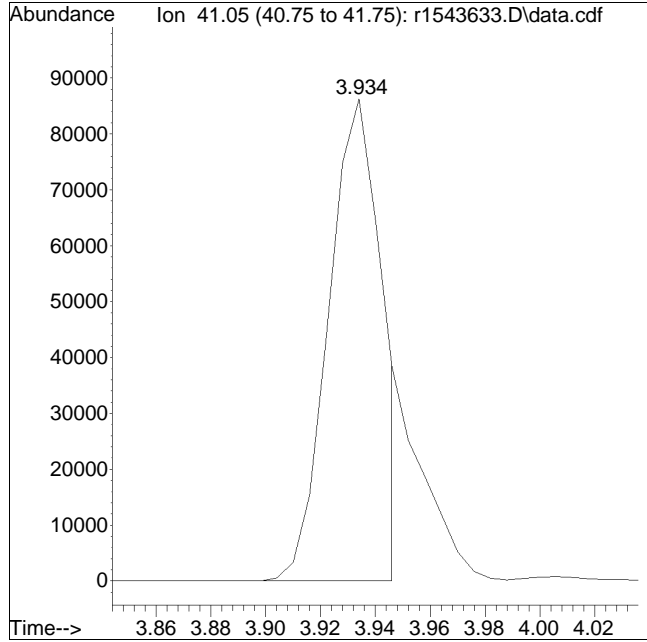
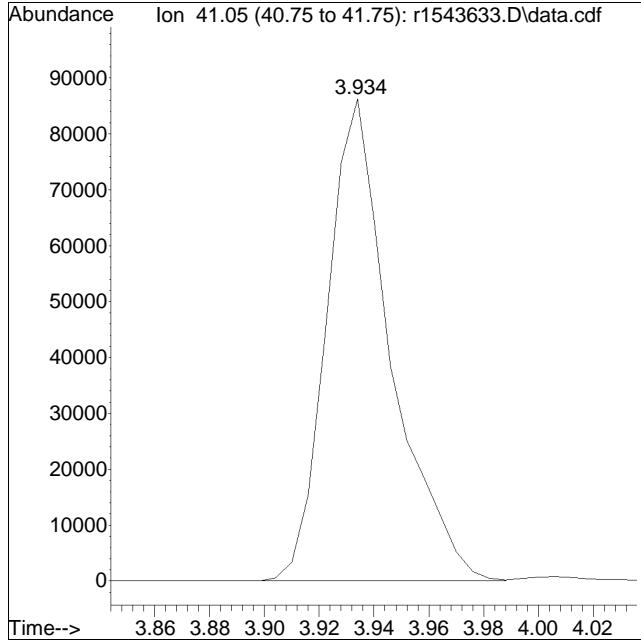
Quant Time: Mar 23 09:48:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543633.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 140457

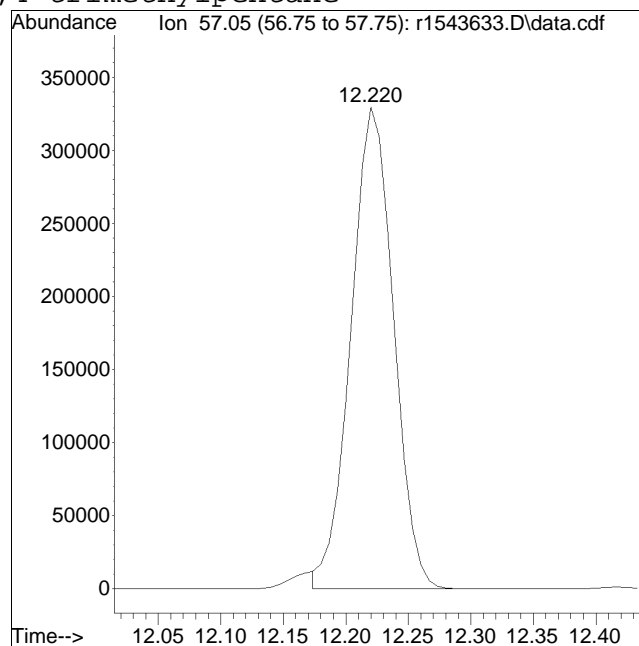
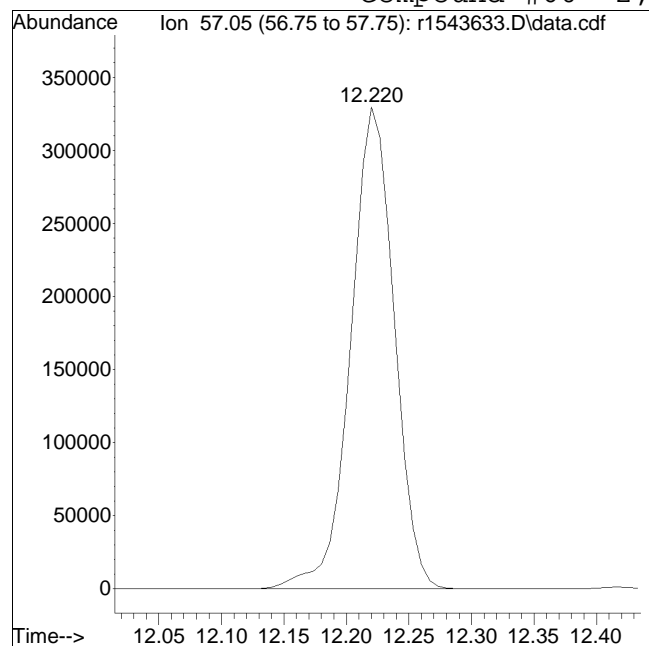
Manual Peak Response = 117630 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543633.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:2: 3 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 3/23/2024 9:48 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 797280

Manual Peak Response = 780386 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543634.D
 Acq On : 23 Mar 2024 1:07 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD010
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:45:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 19 10:25:56 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	9.142	49	379489	10.000	ppbV	#-0.05	
Standard Area =	379489		Recovery =	100.00%			
43) 1,4-difluorobenzene	11.373	114	787888	10.000	ppbV	-0.05	
Standard Area =	787888		Recovery =	100.00%			
67) chlorobenzene-D5	16.067	54	172589	10.000	ppbV	-0.03	
Standard Area =	172589		Recovery =	100.00%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	10.008	65	227868	9.538	ppbV	-0.06	
Spiked Amount	10.000	Range 70 - 130	Recovery =	95.38%			
69) toluene-D8	14.208	98	640399	7.901	ppbV	-0.05	
Spiked Amount	10.000	Range 70 - 130	Recovery =	79.01%			
90) bromofluorobenzene	17.425	95	457364	9.107	ppbV	-0.03	
Spiked Amount	10.000	Range 70 - 130	Recovery =	91.07%			
Target Compounds							
2) chlorodifluoromethane	3.904	51	426943	10.604	ppbV #	93	
3) propylene	3.934	41	232845M6	8.394	ppbV		
4) propane	3.958	29	365530	11.556	ppbV #	89	
5) dichlorodifluoromethane	4.006	85	497625	11.578	ppbV	99	
6) chloromethane	4.174	50	283749	12.023	ppbV	97	
7) Freon-114	4.282	85	579533	11.829	ppbV	97	
8) methanol	4.342	31	869971	63.064	ppbV	98	
9) vinyl chloride	4.402	62	312621	10.706	ppbV	99	
10) 1,3-butadiene	4.546	54	252570	12.190	ppbV #	77	
11) butane	4.606	43	475184	9.677	ppbV	96	
12) acetaldehyde	4.300	29	916399	70.049	ppbV #	78	
13) bromomethane	4.834	94	219893	10.776	ppbV	98	
14) chloroethane	5.026	64	144544	9.865	ppbV	100	
15) ethanol	5.158	31	1420164	73.800	ppbV	88	
16) dichlorofluoromethane	5.134	67	479858	8.303	ppbV	99	
17) vinyl bromide	5.403	106	193193	9.483	ppbV	99	
18) acrolein	5.533	56	133909	12.161	ppbV	97	
19) acetone	5.673	43	1768219	47.343	ppbV #	89	
20) acetonitrile	5.390	41	288384	9.441	ppbV	99	
21) trichlorofluoromethane	5.867	101	359897	9.431	ppbV	95	
22) isopropyl alcohol	5.960	45	1155131	24.489	ppbV	99	
23) acrylonitrile	6.197	53	238375	11.519	ppbV	97	
24) pentane	6.267	43	574142	9.444	ppbV	99	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543634.D
 Acq On : 23 Mar 2024 1:07 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD010
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:45:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 19 10:25:56 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.297	31	581836	9.617	ppbV	97
26) 1,1-dichloroethene	6.570	61	392989	8.969	ppbV	98
27) tertiary butyl alcohol	6.630	59	489609	9.089	ppbV	97
28) methylene chloride	6.720	49	347577	11.485	ppbV	93
29) 3-chloropropene	6.846	41	391600	8.927	ppbV	98
30) carbon disulfide	7.020	76	727474	10.268	ppbV	100
31) Freon 113	7.020	101	396490	8.766	ppbV	94
32) trans-1,2-dichloroethene	7.775	61	383865	8.872	ppbV	96
33) 1,1-dichloroethane	8.000	63	474205	8.510	ppbV	98
34) MTBE	8.067	73	639732	10.040	ppbV	98
35) vinyl acetate	8.183	43	601588	10.088	ppbV	99
36) 2-butanone	8.442	43	625808	10.149	ppbV	99
37) cis-1,2-dichloroethene	8.950	61	368196	8.926	ppbV	96
38) Ethyl Acetate	9.217	61	94982	8.766	ppbV #	32
39) chloroform	9.292	83	493935	11.511	ppbV	97
40) Tetrahydrofuran	9.733	42	377129	9.624	ppbV	100
41) 2,2-dichloropropane	9.317	77	382400	11.362	ppbV #	87
42) 1,2-dichloroethane	10.133	62	319694	9.265	ppbV #	93
44) hexane	9.208	57	512000	10.940	ppbV	85
45) diisopropyl ether	9.200	87	236397	11.374	ppbV	88
46) tert-butyl ethyl ether	9.817	59	902956	10.476	ppbV	96
48) 1,1,1-trichloroethane	10.425	97	382940	10.544	ppbV	96
49) 1,1-dichloropropene	10.787	75	385084	12.238	ppbV	91
50) benzene	10.953	78	881923	12.111	ppbV	97
51) thiophene	11.100	84	534876	12.144	ppbV	95
52) carbon tetrachloride	11.120	117	359532	13.121	ppbV	98
53) cyclohexane	11.273	56	530526	10.940	ppbV	96
54) tert-amyl methyl ether	11.640	73	722783	11.594	ppbV	100
55) dibromomethane	11.867	93	240653	10.530	ppbV	97
56) 1,2-dichloropropane	11.900	63	315272	9.713	ppbV	97
57) bromodichloromethane	12.127	83	498449	13.170	ppbV	98
58) 1,4-dioxane	12.167	88	185862	11.061	ppbV	98
59) trichloroethene	12.173	130	292059	10.544	ppbV	96
60) 2,2,4-trimethylpentane	12.227	57	1663885	10.972	ppbV	98
61) methyl methacrylate	12.420	41	381913	11.241	ppbV	97
62) heptane	12.540	43	641358	11.412	ppbV	96
63) cis-1,3-dichloropropene	13.192	75	459517	12.636	ppbV	92
64) 4-methyl-2-pentanone	13.225	43	760763	11.897	ppbV	94
65) trans-1,3-dichloropropene	13.808	75	372631	12.844	ppbV	90
66) 1,1,2-trichloroethane	14.008	97	284857	9.936	ppbV #	83

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543634.D
 Acq On : 23 Mar 2024 1:07 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD010
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:45:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 19 10:25:56 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	956397	9.662	ppbV	96
70) 2-methylthiophene	14.383	97	646636	9.099	ppbV #	97
71) 1,3-dichloropropane	14.342	76	484242	11.332	ppbV	92
72) 2-hexanone	14.592	43	706849	11.205	ppbV	93
73) 3-methylthiophene	14.575	97	690208	9.120	ppbV #	98
74) dibromochloromethane	14.758	129	395894	10.324	ppbV	98
75) 1,2-dibromoethane	15.008	107	437655	10.500	ppbV	94
76) butyl acetate	15.233	73	119195	10.976	ppbV	97
77) octane	15.333	85	384144	10.618	ppbV	96
78) tetrachloroethene	15.458	166	337950	10.258	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.083	131	295546	9.680	ppbV	99
80) chlorobenzene	16.100	112	720671	10.692	ppbV	96
81) ethylbenzene	16.450	91	1199982	9.445	ppbV	96
82) 2-ethylthiophene	16.492	97	772320	9.301	ppbV #	92
83) m+p-xylene	16.608	91	1950982	19.444	ppbV	95
84) bromoform	16.683	173	328073	10.189	ppbV	98
85) styrene	16.933	104	730567	9.977	ppbV	94
86) 1,1,2,2-tetrachloroethane	17.025	83	773199	11.372	ppbV	100
87) o-xylene	17.025	91	1004473	9.861	ppbV	97
88) 1,2,3-trichloropropane	17.142	75	588846	11.331	ppbV	96
89) nonane	17.225	43	978829	10.683	ppbV	91
91) isopropylbenzene	17.542	105	1204663	10.092	ppbV	99
92) bromobenzene	17.617	77	768490	11.344	ppbV	91
93) 2-chlorotoluene	17.942	126	320098M3	9.562	ppbV	
94) n-propylbenzene	17.967	120	385932	10.153	ppbV	86
95) 4-chlorotoluene	18.000	126	315737	9.551	ppbV	96
96) 4-ethyl toluene	18.092	105	1298479	10.391	ppbV	99
97) 1,3,5-trimethylbenzene	18.150	105	1245084	10.175	ppbV	97
98) tert-butylbenzene	18.500	119	1167542	10.755	ppbV	93
99) 1,2,4-trimethylbenzene	18.500	105	1144721	10.680	ppbV	96
100) decane	18.575	57	1103631	9.870	ppbV	89
101) Benzyl Chloride	18.617	91	751132	10.298	ppbV	98
102) 1,3-dichlorobenzene	18.633	146	670700M3	10.279	ppbV	
103) 1,4-dichlorobenzene	18.683	146	655419	10.110	ppbV	93
104) sec-butylbenzene	18.717	105	1560038	10.249	ppbV	93
105) 1,2,3-trimethylbenzene	18.850	105	1073895	10.151	ppbV	91
106) p-isopropyltoluene	18.842	119	1497925	11.410	ppbV	91
107) 1,2-dichlorobenzene	18.967	146	623586	9.884	ppbV #	90
108) n-butylbenzene	19.192	91	1290730	9.904	ppbV	97
109) indan	19.017	117	1067685	10.725	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543634.D
 Acq On : 23 Mar 2024 1:07 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD010
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:45:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Tue Mar 19 10:25:56 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

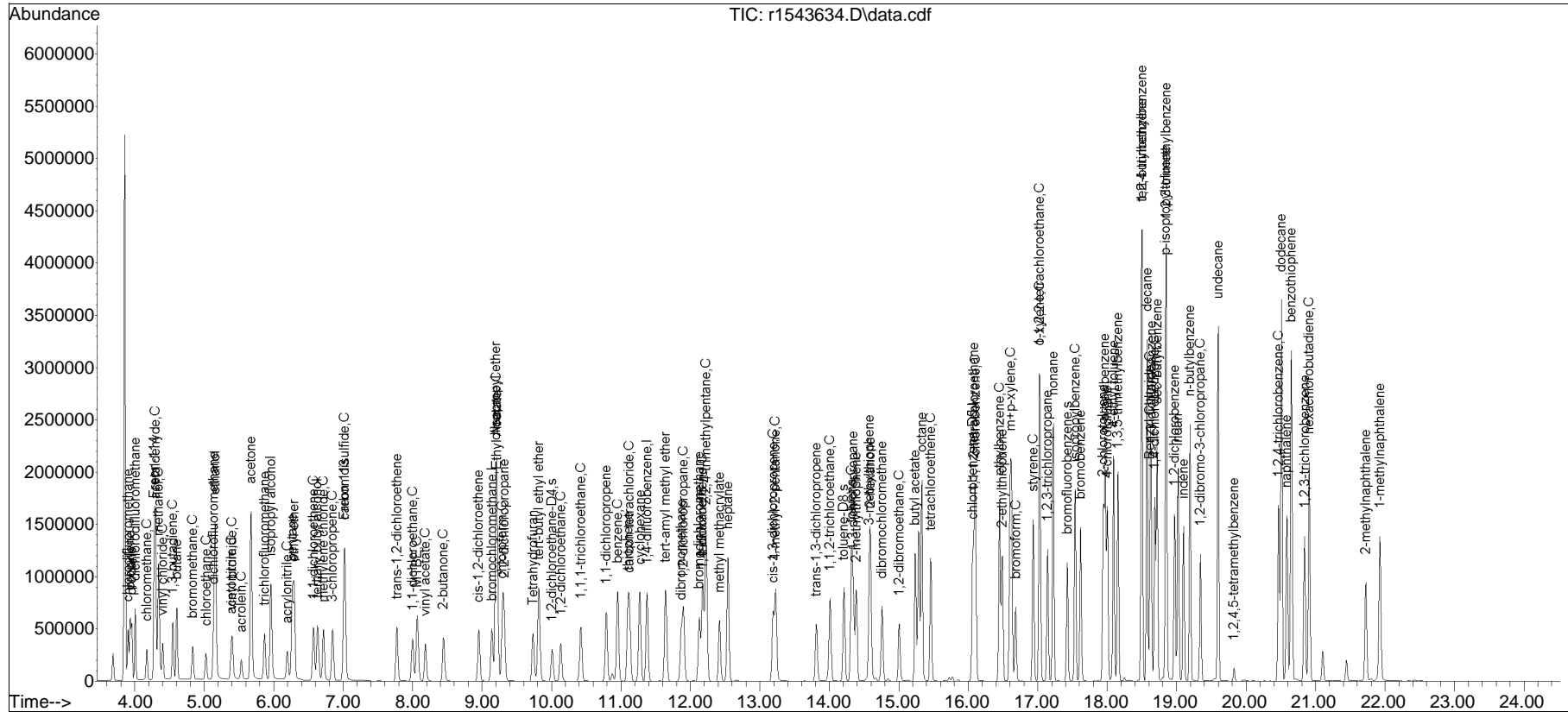
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	732156	11.180	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.342	75	339547	11.888	ppbV	88
112) undecane	19.600	57	1268600	10.181	ppbV	95
113) 1,2,4,5-tetramethylben...	19.825	119	66119	12.722	ppbV	93
114) dodecane	20.508	57	1314112	11.003	ppbV	90
115) 1,2,4-trichlorobenzene	20.467	180	502449	10.534	ppbV	94
116) naphthalene	20.583	128	1361724	10.156	ppbV	99
117) 1,2,3-trichlorobenzene	20.842	180	434248	9.951	ppbV #	89
118) benzothiophene	20.650	134	2394286	13.097	ppbV	98
119) hexachlorobutadiene	20.908	225	437431	10.601	ppbV	95
120) 2-methylnaphthalene	21.725	142	568744	12.844	ppbV	97
121) 1-methylnaphthalene	21.925	142	837336	13.003	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543634.D
Acq On : 23 Mar 2024 1:07 AM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD010
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

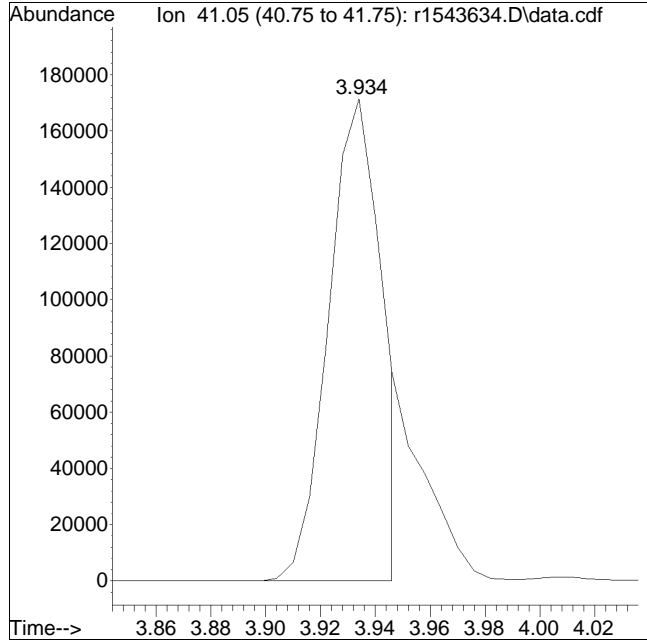
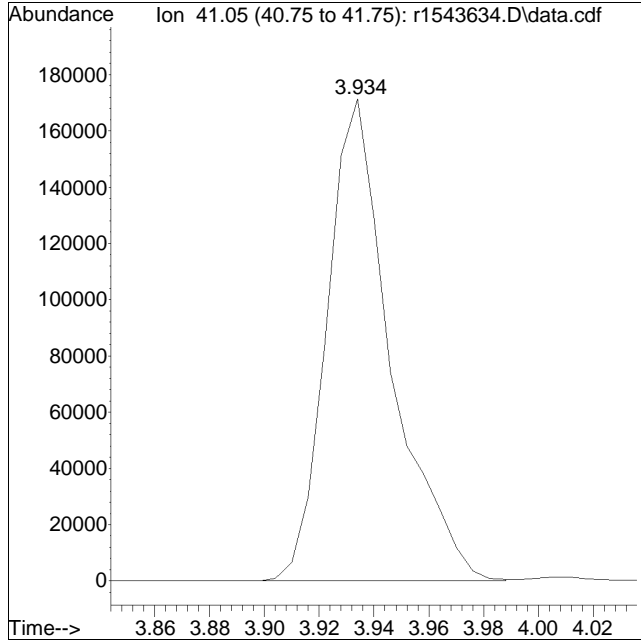
Quant Time: Mar 23 09:45:54 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 19 10:25:56 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543634.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 7 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 3/23/2024 9:45 am

Compound #3: propylene



Original Peak Response = 279198

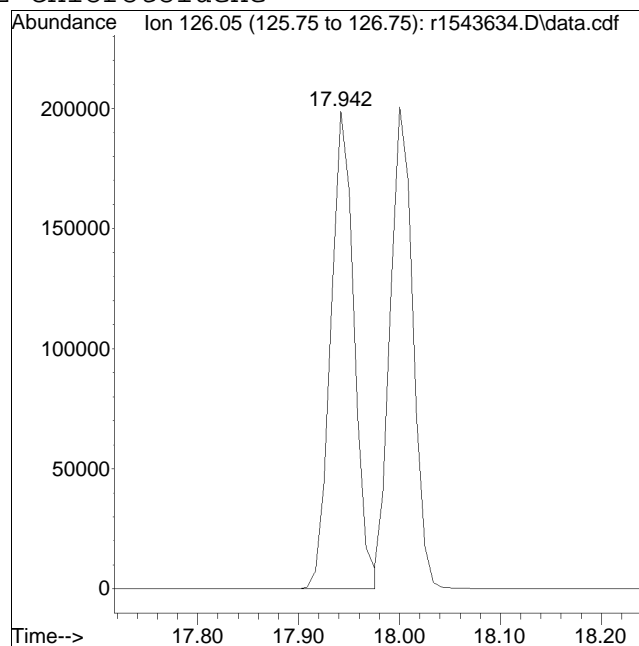
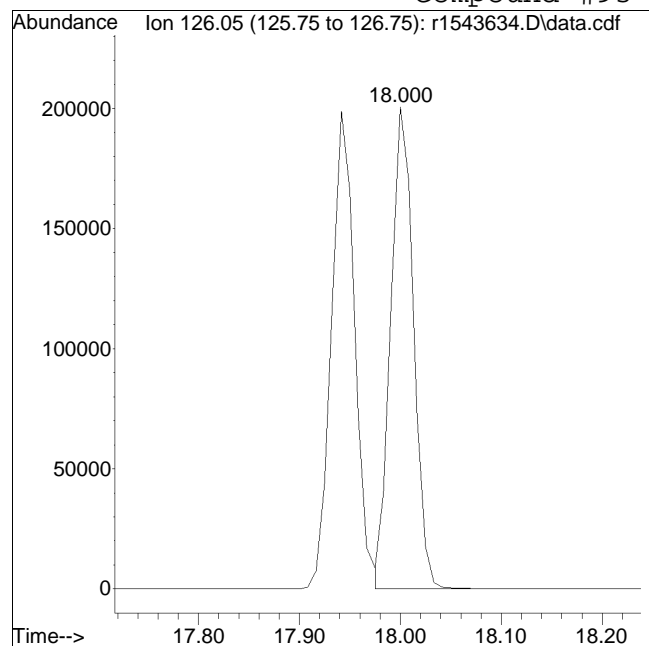
Manual Peak Response = 232845 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543634.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 7 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 3/23/2024 9:45 am

Compound #93: 2-chlorotoluene



Original Peak Response = 315737

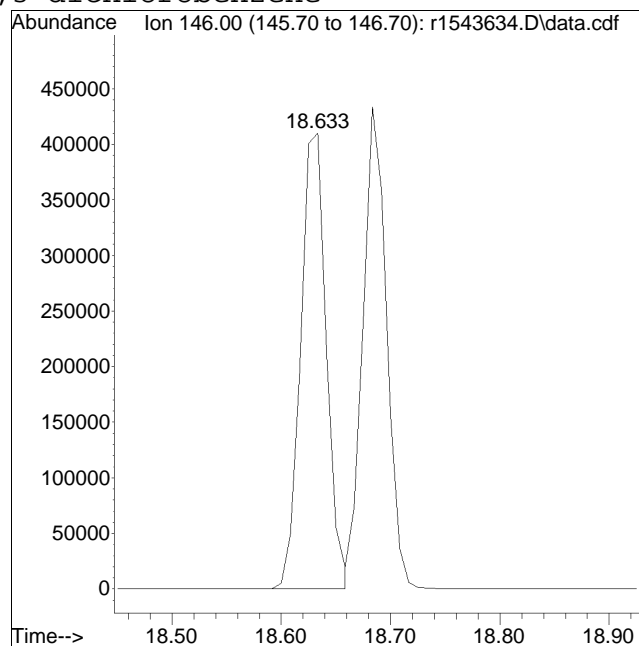
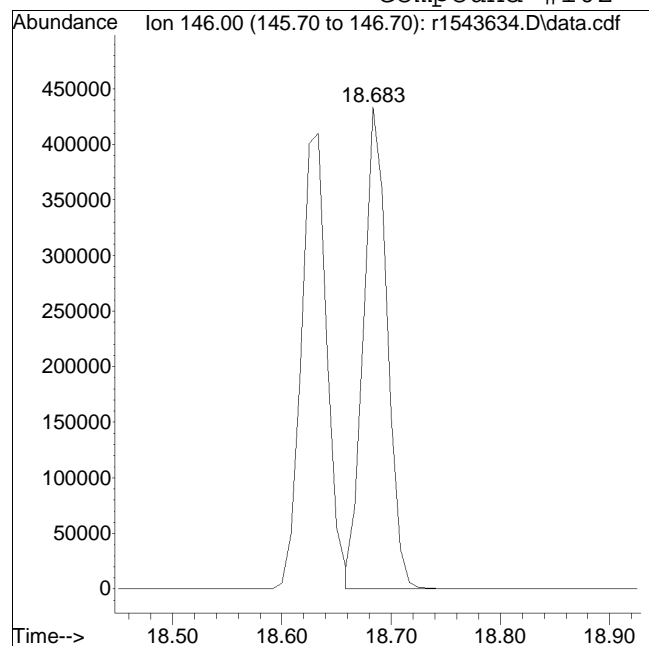
Manual Peak Response = 320098 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543634.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 7 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 3/23/2024 9:45 am

Compound #102: 1,3-dichlorobenzene



Original Peak Response = 655419

Manual Peak Response = 670700 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543635.D
 Acq On : 23 Mar 2024 1:47 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD020
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:37 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.142	49	387311	10.000	ppbV	0.00
Standard Area =	379489		Recovery =	102.06%		
43) 1,4-difluorobenzene	11.373	114	815834	10.000	ppbV	0.00
Standard Area =	787888		Recovery =	103.55%		
67) chlorobenzene-D5	16.067	54	171102	10.000	ppbV	0.00
Standard Area =	172589		Recovery =	99.14%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.008	65	223738	9.092	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	90.92%		
69) toluene-D8	14.208	98	668370	8.520	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	85.20%		
90) bromofluorobenzene	17.425	95	473803	9.558	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	95.58%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.904	51	674198	16.365	ppbV	100
3) propylene	3.934	41	347091M6	12.672	ppbV	
4) propane	3.958	29	570532	17.628	ppbV	99
5) dichlorodifluoromethane	4.006	85	749501	17.046	ppbV	100
6) chloromethane	4.174	50	430710	17.707	ppbV	99
7) Freon-114	4.282	85	884926	17.617	ppbV	99
8) methanol	4.348	31	1312393	90.949	ppbV	98
9) vinyl chloride	4.408	62	479528	16.283	ppbV	100
10) 1,3-butadiene	4.552	54	388501	18.171	ppbV	99
11) butane	4.606	43	740662	15.037	ppbV	100
12) acetaldehyde	4.300	29	1382922	100.419	ppbV	98
13) bromomethane	4.834	94	333219	16.121	ppbV	100
14) chloroethane	5.026	64	221267	15.100	ppbV	99
15) ethanol	5.164	31	2214126	107.835	ppbV	98
16) dichlorofluoromethane	5.140	67	771427	13.473	ppbV	100
17) vinyl bromide	5.410	106	300942	14.812	ppbV	99
18) acrolein	5.537	56	213854	18.861	ppbV	99
19) acetone	5.677	43	2691033	72.129	ppbV	97
20) acetonitrile	5.393	41	455568	14.918	ppbV	99
21) trichlorofluoromethane	5.870	101	529344	13.961	ppbV	100
22) isopropyl alcohol	5.963	45	1824132	38.468	ppbV	100
23) acrylonitrile	6.197	53	381695	18.222	ppbV	98
24) pentane	6.270	43	892758	14.677	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543635.D
 Acq On : 23 Mar 2024 1:47 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD020
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:37 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.297	31	896071	14.707	ppbV	98
26) 1,1-dichloroethene	6.576	61	618647	14.312	ppbV	99
27) tertiary butyl alcohol	6.630	59	808552	15.235	ppbV	97
28) methylene chloride	6.720	49	540382	17.505	ppbV	95
29) 3-chloropropene	6.852	41	625607	14.389	ppbV	98
30) carbon disulfide	7.026	76	1167587	16.399	ppbV	99
31) Freon 113	7.020	101	620046	13.871	ppbV	99
32) trans-1,2-dichloroethene	7.775	61	622019	14.598	ppbV	97
33) 1,1-dichloroethane	8.000	63	754342	13.769	ppbV	99
34) MTBE	8.067	73	986085	15.423	ppbV	98
35) vinyl acetate	8.183	43	963755	16.173	ppbV	99
36) 2-butanone	8.442	43	979976	15.902	ppbV	100
37) cis-1,2-dichloroethene	8.958	61	582579	14.321	ppbV	99
38) Ethyl Acetate	9.225	61	156598	14.793	ppbV #	55
39) chloroform	9.300	83	747798	17.081	ppbV	97
40) Tetrahydrofuran	9.733	42	597849	15.385	ppbV	100
41) 2,2-dichloropropane	9.317	77	579479	16.912	ppbV	99
42) 1,2-dichloroethane	10.133	62	484254	14.124	ppbV	99
44) hexane	9.208	57	827731	17.203	ppbV	92
45) diisopropyl ether	9.200	87	388414	18.096	ppbV	90
46) tert-butyl ethyl ether	9.817	59	1441383	16.378	ppbV	99
48) 1,1,1-trichloroethane	10.425	97	576392	15.690	ppbV	98
49) 1,1-dichloropropene	10.787	75	604480	18.393	ppbV	97
50) benzene	10.953	78	1381204	18.174	ppbV	98
51) thiophene	11.100	84	857126	18.670	ppbV	96
52) carbon tetrachloride	11.127	117	538474	18.653	ppbV	99
53) cyclohexane	11.273	56	861341	17.271	ppbV	98
54) tert-amyl methyl ether	11.640	73	1135986	17.583	ppbV	99
55) dibromomethane	11.867	93	390871	16.747	ppbV	98
56) 1,2-dichloropropane	11.900	63	504773	15.349	ppbV	96
57) bromodichloromethane	12.127	83	776914	19.474	ppbV	100
58) 1,4-dioxane	12.167	88	310350	17.976	ppbV	97
59) trichloroethene	12.180	130	469365	16.604	ppbV	100
60) 2,2,4-trimethylpentane	12.227	57	2594650M6	16.662	ppbV	
61) methyl methacrylate	12.420	41	601446	17.228	ppbV	99
62) heptane	12.540	43	1002038	17.200	ppbV	99
63) cis-1,3-dichloropropene	13.192	75	707133	18.622	ppbV	99
64) 4-methyl-2-pentanone	13.225	43	1190958	17.904	ppbV	98
65) trans-1,3-dichloropropene	13.817	75	575915	18.969	ppbV	98
66) 1,1,2-trichloroethane	14.008	97	454222	15.602	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543635.D
 Acq On : 23 Mar 2024 1:47 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD020
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:37 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.317	91	1484161	15.497	ppbV	97
70) 2-methylthiophene	14.392	97	1020518	14.934	ppbV	100
71) 1,3-dichloropropane	14.350	76	744048	17.577	ppbV	99
72) 2-hexanone	14.592	43	1096113	17.695	ppbV	99
73) 3-methylthiophene	14.575	97	1093315	15.012	ppbV	97
74) dibromochloromethane	14.758	129	632500	16.959	ppbV	99
75) 1,2-dibromoethane	15.008	107	674649	16.567	ppbV	99
76) butyl acetate	15.233	73	184030	17.275	ppbV	97
77) octane	15.333	85	604362	16.982	ppbV	99
78) tetrachloroethene	15.458	166	516745	16.053	ppbV	98
79) 1,1,1,2-tetrachloroethane	16.092	131	474764	16.053	ppbV	99
80) chlorobenzene	16.100	112	1115808	16.843	ppbV	97
81) ethylbenzene	16.450	91	1912386	15.603	ppbV	100
82) 2-ethylthiophene	16.492	97	1214975	15.178	ppbV	99
83) m+p-xylene	16.617	91	3065908	31.591	ppbV	99
84) bromoform	16.683	173	521900	16.757	ppbV	99
85) styrene	16.933	104	1138793	16.009	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.025	83	1198728	17.884	ppbV	99
87) o-xylene	17.033	91	1551585	15.706	ppbV	100
88) 1,2,3-trichloropropane	17.142	75	914957	17.763	ppbV	98
89) nonane	17.225	43	1534020	17.011	ppbV	98
91) isopropylbenzene	17.542	105	1877074	16.084	ppbV	98
92) bromobenzene	17.617	77	1202636	17.902	ppbV	99
93) 2-chlorotoluene	17.942	126	522106	16.115	ppbV	99
94) n-propylbenzene	17.967	120	626397	16.882	ppbV	96
95) 4-chlorotoluene	18.000	126	508182	15.864	ppbV	94
96) 4-ethyl toluene	18.092	105	2002796	16.387	ppbV	98
97) 1,3,5-trimethylbenzene	18.158	105	1859783	15.590	ppbV	97
98) tert-butylbenzene	18.500	119	1812878	17.035	ppbV	96
99) 1,2,4-trimethylbenzene	18.500	105	1756632	16.756	ppbV	98
100) decane	18.575	57	1758581	16.238	ppbV	97
101) Benzyl Chloride	18.617	91	1246422	17.792	ppbV	98
102) 1,3-dichlorobenzene	18.633	146	1025045	16.124	ppbV	99
103) 1,4-dichlorobenzene	18.683	146	1006071	16.017	ppbV	96
104) sec-butylbenzene	18.717	105	2421126	16.270	ppbV	98
105) 1,2,3-trimethylbenzene	18.850	105	1648757	15.970	ppbV	97
106) p-isopropyltoluene	18.850	119	2307525	17.775	ppbV	98
107) 1,2-dichlorobenzene	18.967	146	960429	15.691	ppbV	97
108) n-butylbenzene	19.192	91	2012007	15.906	ppbV	100
109) indan	19.025	117	1664115	17.036	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543635.D
 Acq On : 23 Mar 2024 1:47 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD020
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:37 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

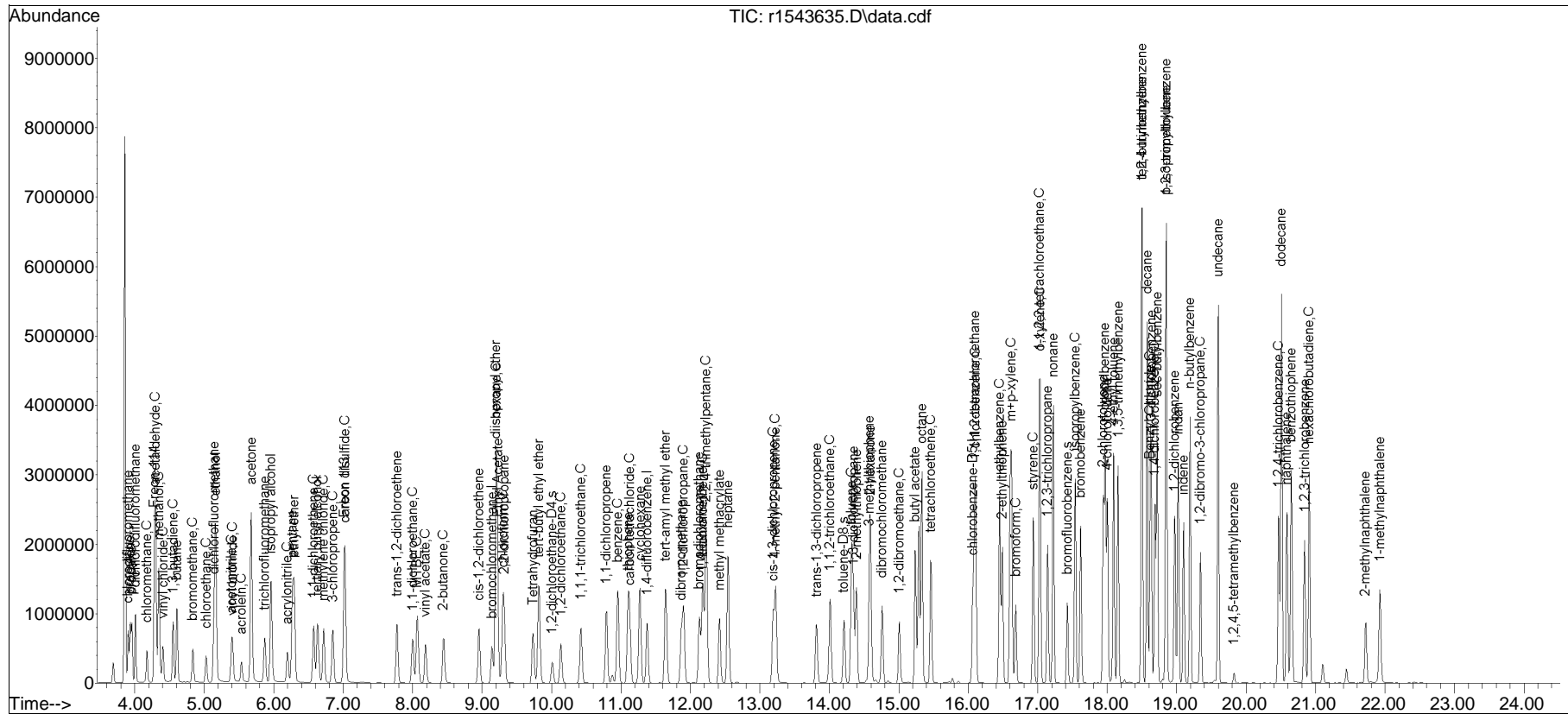
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	1141023	17.682	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.342	75	527778	18.623	ppbV	95
112) undecane	19.600	57	2014206	16.643	ppbV	98
113) 1,2,4,5-tetramethylben...	19.825	119	76761	15.090	ppbV	98
114) dodecane	20.508	57	2025864	17.501	ppbV	97
115) 1,2,4-trichlorobenzene	20.467	180	755115	16.435	ppbV	99
116) naphthalene	20.583	128	2108897	16.284	ppbV	99
117) 1,2,3-trichlorobenzene	20.842	180	647612	15.409	ppbV	98
118) benzothiophene	20.650	134	2357673	13.624	ppbV	99
119) hexachlorobutadiene	20.908	225	642778	16.016	ppbV	96
120) 2-methylnaphthalene	21.717	142	540774	12.900	ppbV	98
121) 1-methylnaphthalene	21.925	142	815590	13.205	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543635.D
Acq On : 23 Mar 2024 1:47 AM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD020
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

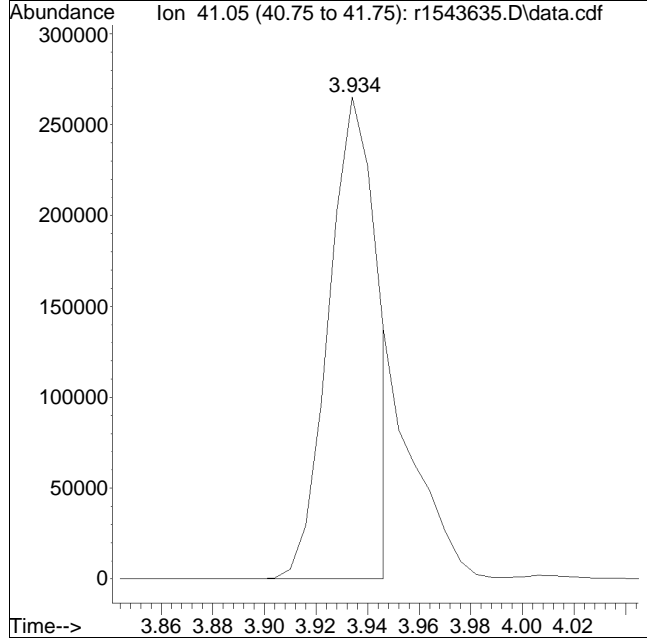
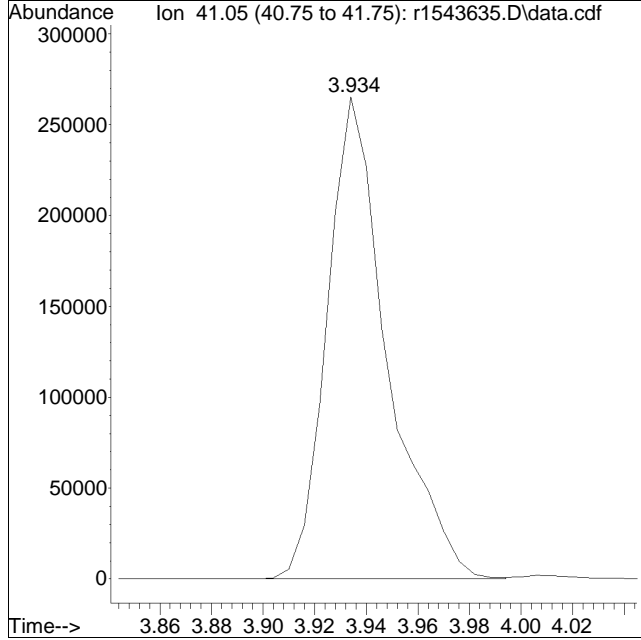
Quant Time: Mar 23 09:48:37 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543635.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 7 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 431480

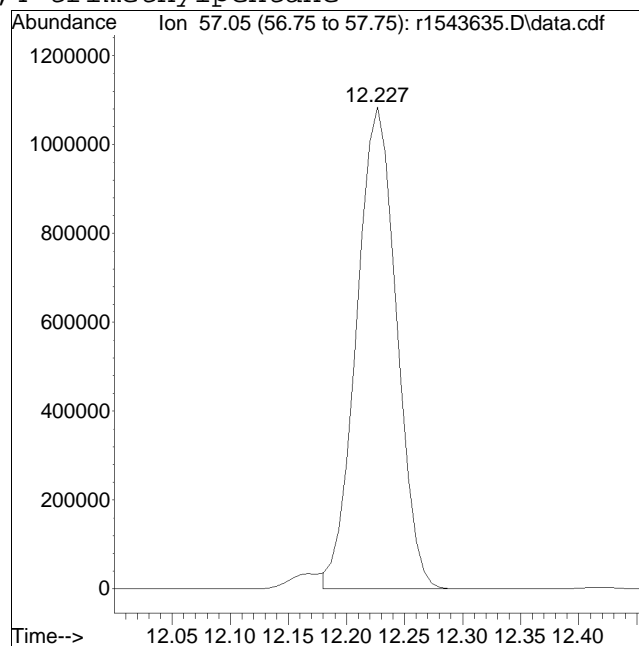
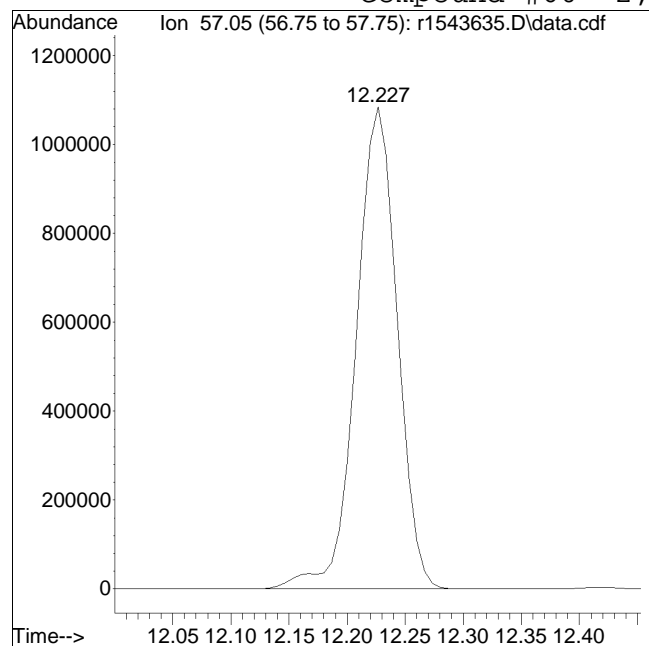
Manual Peak Response = 347091 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543635.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 7 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 3/23/2024 9:48 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 2667808

Manual Peak Response = 2594650 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543636.D
 Acq On : 23 Mar 2024 2:28 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD050
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:42 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.150	49	403673	10.000	ppbV	0.00
Standard Area =	379489		Recovery =	106.37%		
43) 1,4-difluorobenzene	11.380	114	831118	10.000	ppbV	0.00
Standard Area =	787888		Recovery =	105.49%		
67) chlorobenzene-D5	16.067	54	176931	10.000	ppbV	# 0.00
Standard Area =	172589		Recovery =	102.52%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.017	65	220240	8.785	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.85%		
69) toluene-D8	14.208	98	668724	8.243	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	82.43%		
90) bromofluorobenzene	17.425	95	479451	9.353	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	93.53%		
Target Compounds						
						Qvalue
2) chlorodifluoromethane	3.904	51	1669252	38.876	ppbV	100
3) propylene	3.934	41	895639M6	31.372	ppbV	
4) propane	3.958	29	1441123	42.722	ppbV	99
5) dichlorodifluoromethane	4.006	85	1816082	39.628	ppbV	98
6) chloromethane	4.174	50	1078013	42.523	ppbV	98
7) Freon-114	4.282	85	2158449	41.227	ppbV	98
8) methanol	4.348	31	3253721	216.343	ppbV	98
9) vinyl chloride	4.408	62	1211657	39.476	ppbV	100
10) 1,3-butadiene	4.552	54	985842	44.242	ppbV	98
11) butane	4.606	43	1853409	36.104	ppbV	100
12) acetaldehyde	4.300	29	3336904	232.484	ppbV	94
13) bromomethane	4.834	94	837940	38.897	ppbV	100
14) chloroethane	5.026	64	564609	36.970	ppbV	100
15) ethanol	5.170	31	4974482	232.452	ppbV	97
16) dichlorofluoromethane	5.140	67	1833180	30.719	ppbV	100
17) vinyl bromide	5.410	106	763824	36.071	ppbV	100
18) acrolein	5.537	56	550232	46.560	ppbV	98
19) acetone	5.677	43	6586997	169.398	ppbV	98
20) acetonitrile	5.393	41	1159341	36.425	ppbV	100
21) trichlorofluoromethane	5.873	101	1329393	33.641	ppbV	96
22) isopropyl alcohol	5.967	45	4567254	92.411	ppbV	99
23) acrylonitrile	6.203	53	986792	45.199	ppbV	100
24) pentane	6.273	43	2238693	35.312	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543636.D
 Acq On : 23 Mar 2024 2:28 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD050
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:42 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.297	31	2218382	34.934	ppbV	98
26) 1,1-dichloroethene	6.576	61	1580021	35.072	ppbV	97
27) tertiary butyl alcohol	6.630	59	2098245	37.933	ppbV	96
28) methylene chloride	6.720	49	1371054	42.614	ppbV	95
29) 3-chloropropene	6.852	41	1622065	35.796	ppbV	97
30) carbon disulfide	7.026	76	3044326	41.026	ppbV	97
31) Freon 113	7.020	101	1615947	34.685	ppbV	96
32) trans-1,2-dichloroethene	7.775	61	1605227	36.145	ppbV	96
33) 1,1-dichloroethane	8.000	63	1921523	33.651	ppbV	99
34) MTBE	8.067	73	2483811	37.274	ppbV	97
35) vinyl acetate	8.192	43	2527486	40.695	ppbV	99
36) 2-butanone	8.450	43	2501028	38.939	ppbV	98
37) cis-1,2-dichloroethene	8.958	61	1494334	35.244	ppbV	96
38) Ethyl Acetate	9.225	61	421259	38.181	ppbV #	51
39) chloroform	9.300	83	1855595	40.666	ppbV	98
40) Tetrahydrofuran	9.733	42	1548087	38.223	ppbV	99
41) 2,2-dichloropropane	9.325	77	1440360	40.332	ppbV	98
42) 1,2-dichloroethane	10.133	62	1191110	33.333	ppbV	99
44) hexane	9.208	57	2168198	44.235	ppbV	78
45) diisopropyl ether	9.208	87	1017510	46.533	ppbV	86
46) tert-butyl ethyl ether	9.817	59	3681805	41.066	ppbV	98
48) 1,1,1-trichloroethane	10.425	97	1440596	38.493	ppbV	98
49) 1,1-dichloropropene	10.793	75	1519436	45.382	ppbV	97
50) benzene	10.960	78	3506140	45.287	ppbV	99
51) thiophene	11.107	84	2218706	47.438	ppbV	96
52) carbon tetrachloride	11.133	117	1314872	44.709	ppbV	99
53) cyclohexane	11.273	56	2240918	44.108	ppbV	98
54) tert-amyl methyl ether	11.647	73	2913756	44.271	ppbV	99
55) dibromomethane	11.873	93	1021091	42.943	ppbV	99
56) 1,2-dichloropropane	11.900	63	1325359	39.559	ppbV	96
57) bromodichloromethane	12.133	83	1955248	48.110	ppbV	98
58) 1,4-dioxane	12.167	88	829778	47.179	ppbV	97
59) trichloroethene	12.180	130	1237250	42.964	ppbV	99
60) 2,2,4-trimethylpentane	12.227	57	6748197M6	42.537	ppbV	
61) methyl methacrylate	12.420	41	1548266	43.534	ppbV	98
62) heptane	12.540	43	2565150	43.221	ppbV	97
63) cis-1,3-dichloropropene	13.192	75	1821514	47.087	ppbV	99
64) 4-methyl-2-pentanone	13.225	43	3041148	44.879	ppbV	96
65) trans-1,3-dichloropropene	13.817	75	1475255	47.697	ppbV	98
66) 1,1,2-trichloroethane	14.008	97	1175976	39.651	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543636.D
 Acq On : 23 Mar 2024 2:28 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD050
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:42 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.325	91	3901206	39.393	ppbV	100
70) 2-methylthiophene	14.392	97	2671667	37.807	ppbV	98
71) 1,3-dichloropropane	14.350	76	1907396	43.576	ppbV	99
72) 2-hexanone	14.592	43	2889128	45.103	ppbV	95
73) 3-methylthiophene	14.583	97	2882081	38.269	ppbV	98
74) dibromochloromethane	14.758	129	1617621	41.944	ppbV	96
75) 1,2-dibromoethane	15.008	107	1743133	41.394	ppbV	97
76) butyl acetate	15.233	73	488688	44.362	ppbV	94
77) octane	15.333	85	1596806	43.390	ppbV	95
78) tetrachloroethene	15.458	166	1352111	40.620	ppbV	95
79) 1,1,1,2-tetrachloroethane	16.092	131	1219887	39.889	ppbV	97
80) chlorobenzene	16.108	112	2940678	42.926	ppbV	99
81) ethylbenzene	16.450	91	4937742	38.960	ppbV	99
82) 2-ethylthiophene	16.492	97	3093991	37.377	ppbV	97
83) m+p-xylene	16.617	91	7932795	79.047	ppbV	98
84) bromoform	16.683	173	1396883	43.374	ppbV	97
85) styrene	16.933	104	2987040	40.607	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.025	83	3124211	45.074	ppbV	98
87) o-xylene	17.033	91	4061002	39.754	ppbV	98
88) 1,2,3-trichloropropane	17.142	75	2353344	44.182	ppbV	98
89) nonane	17.225	43	3933563	42.183	ppbV	95
91) isopropylbenzene	17.542	105	4803959	39.806	ppbV	96
92) bromobenzene	17.617	77	3078786	44.320	ppbV	99
93) 2-chlorotoluene	17.942	126	1390063	41.491	ppbV	94
94) n-propylbenzene	17.975	120	1679856	43.781	ppbV	90
95) 4-chlorotoluene	18.008	126	1355238	40.914	ppbV	93
96) 4-ethyl toluene	18.092	105	5160215	40.830	ppbV	96
97) 1,3,5-trimethylbenzene	18.158	105	4937897	40.028	ppbV	97
98) tert-butylbenzene	18.500	119	4681184	42.537	ppbV #	90
99) 1,2,4-trimethylbenzene	18.500	105	4633739	42.743	ppbV	99
100) decane	18.575	57	4675638	41.752	ppbV	95
101) Benzyl Chloride	18.625	91	3530129	48.730	ppbV	97
102) 1,3-dichlorobenzene	18.633	146	2811122	42.761	ppbV	92
103) 1,4-dichlorobenzene	18.692	146	2737260	42.143	ppbV	99
104) sec-butylbenzene	18.717	105	6290590	40.879	ppbV	93
105) 1,2,3-trimethylbenzene	18.850	105	4190997	39.257	ppbV	98
106) p-isopropyltoluene	18.850	119	5614224M6	41.822	ppbV	
107) 1,2-dichlorobenzene	18.975	146	2564499	40.517	ppbV	95
108) n-butylbenzene	19.192	91	5293483	40.468	ppbV	92
109) indan	19.025	117	4278119	42.354	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543636.D
 Acq On : 23 Mar 2024 2:28 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-SIMSTD050
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:42 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

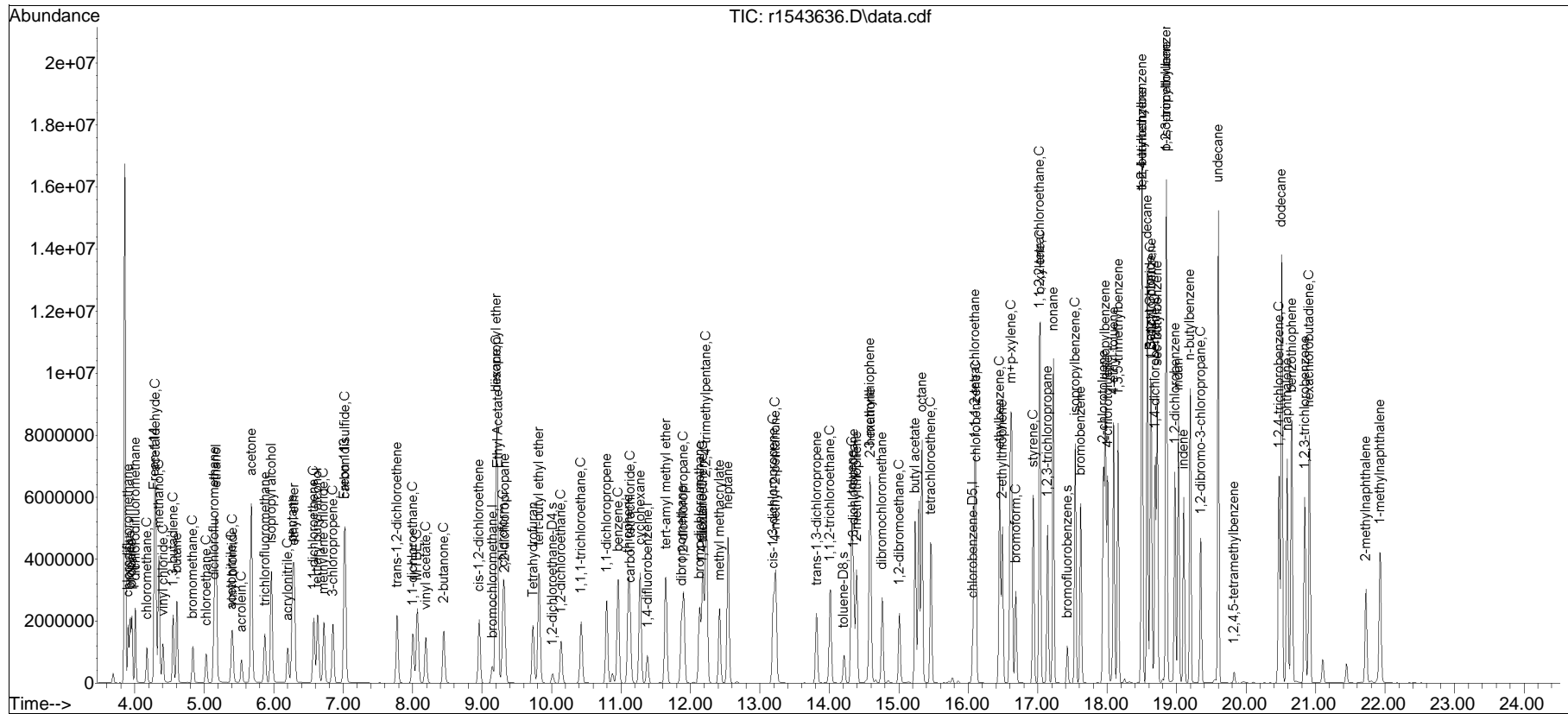
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.100	115	2952594	44.247	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.350	75	1365967	46.612	ppbV	99
112) undecane	19.600	57	5387903	43.053	ppbV	97
113) 1,2,4,5-tetramethylben...	19.825	119	202739	38.542	ppbV	97
114) dodecane	20.508	57	5506210	46.000	ppbV	95
115) 1,2,4-trichlorobenzene	20.475	180	2158849	45.439	ppbV	98
116) naphthalene	20.592	128	5799287	43.304	ppbV	99
117) 1,2,3-trichlorobenzene	20.842	180	1950642	44.885	ppbV	92
118) benzothiophene	20.658	134	6745426	37.696	ppbV	99
119) hexachlorobutadiene	20.908	225	1758832	42.381	ppbV	93
120) 2-methylnaphthalene	21.725	142	1782533	41.122	ppbV	97
121) 1-methylnaphthalene	21.925	142	2611961	40.896	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543636.D
Acq On : 23 Mar 2024 2:28 AM
Operator : AIRLAB15:TJS
Sample : ITO15-SIMSTD050
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

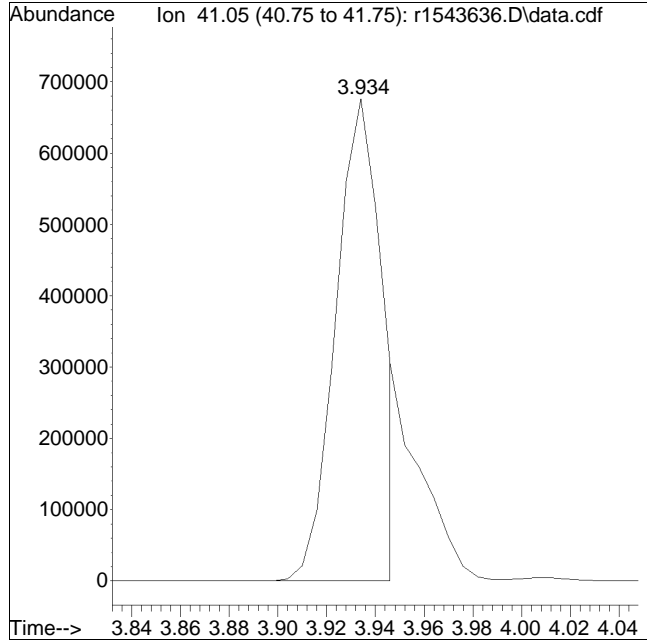
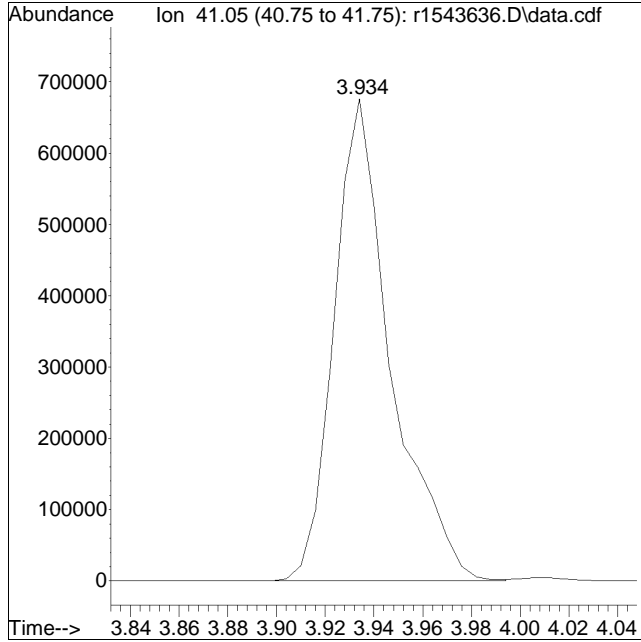
Quant Time: Mar 23 09:48:42 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543636.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:2: 8 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 1096397

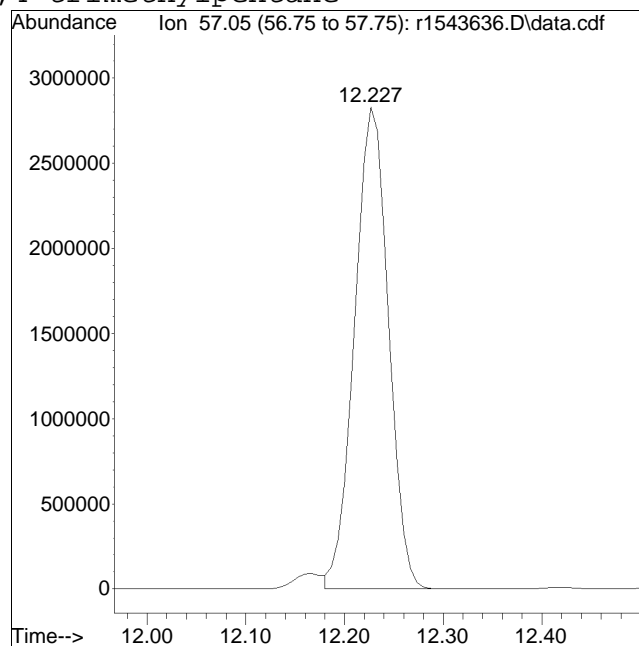
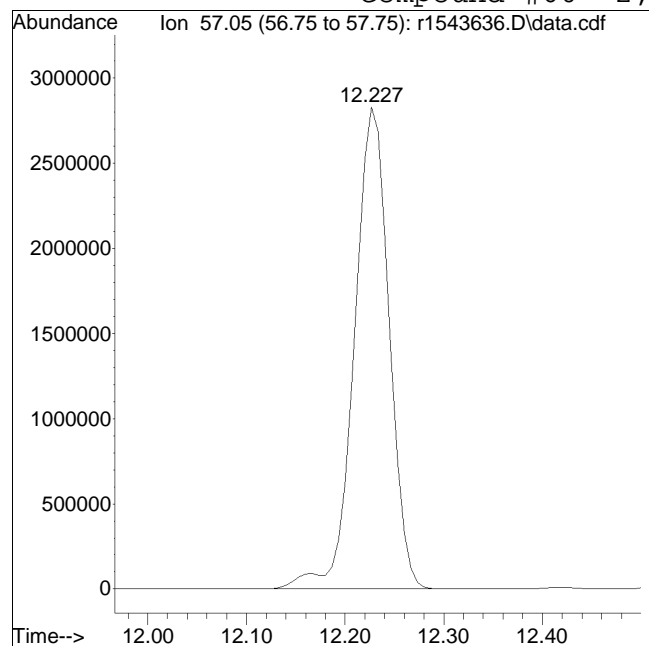
Manual Peak Response = 895639 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543636.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:2: 8 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 3/23/2024 9:48 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 6943707

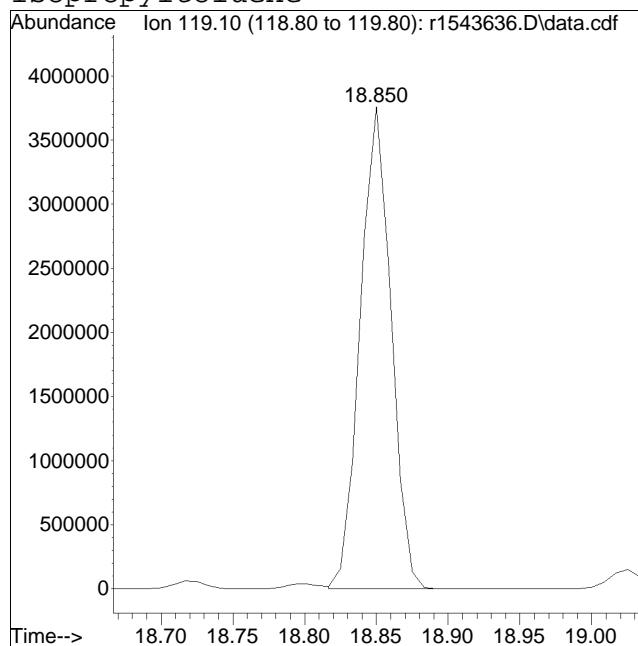
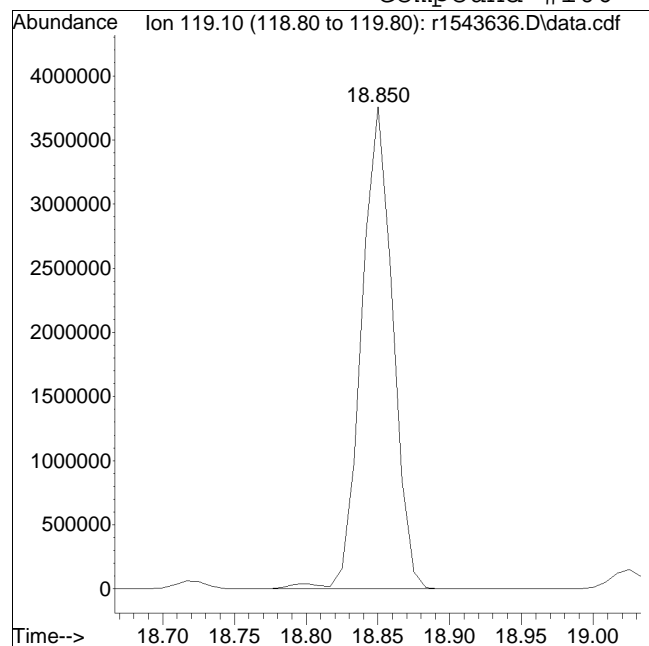
Manual Peak Response = 6748197 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543636.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:2: 8 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 3/23/2024 9:48 am

Compound #106: p-isopropyltoluene



Original Peak Response = 5683961

Manual Peak Response = 5614224 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543637.D
 Acq On : 23 Mar 2024 3:11 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-LLSTD100
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:47 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.150	49	423386	10.000	ppbV	0.00
Standard Area =	379489		Recovery =	111.57%		
43) 1,4-difluorobenzene	11.380	114	844408	10.000	ppbV	0.00
Standard Area =	787888		Recovery =	107.17%		
67) chlorobenzene-D5	16.067	54	183430	10.000	ppbV	0.00
Standard Area =	172589		Recovery =	106.28%		
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	10.017	65	223490	8.774	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	87.74%		
69) toluene-D8	14.217	98	698593	8.306	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	83.06%		
90) bromofluorobenzene	17.433	95	500376	9.415	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	94.15%		
Target Compounds						
2) chlorodifluoromethane	3.910	51	3093112	68.684	ppbV	100
3) propylene	3.934	41	1866116M6	62.323	ppbV	
4) propane	3.964	29	2822531	79.778	ppbV	98
5) dichlorodifluoromethane	4.012	85	3421682	71.187	ppbV	97
6) chloromethane	4.180	50	2083120	78.344	ppbV	100
7) Freon-114	4.288	85	4022236	73.249	ppbV	96
8) methanol	4.354	31	6193533	392.641	ppbV	98
9) vinyl chloride	4.408	62	2404506	74.691	ppbV	99
10) 1,3-butadiene	4.558	54	1904940	81.509	ppbV	96
11) butane	4.612	43	3682485	68.394	ppbV	100
12) acetaldehyde	4.306	29	6022653	400.065	ppbV	91
13) bromomethane	4.840	94	1660014	73.470	ppbV	99
14) chloroethane	5.032	64	1139391	71.133	ppbV	100
15) ethanol	5.182	31	9243881	411.845	ppbV	93
16) dichlorofluoromethane	5.146	67	3594593	57.430	ppbV	100
17) vinyl bromide	5.413	106	1514538	68.193	ppbV	97
18) acrolein	5.540	56	1106830	89.298	ppbV	97
19) acetone	5.683	43	12493235	306.329	ppbV	95
20) acetonitrile	5.403	41	2308510	69.154	ppbV	99
21) trichlorofluoromethane	5.877	101	2628196	63.411	ppbV	100
22) isopropyl alcohol	5.980	45	8824501	170.237	ppbV	99
23) acrylonitrile	6.210	53	1949953	85.157	ppbV	97
24) pentane	6.277	43	4404307	66.237	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543637.D
 Acq On : 23 Mar 2024 3:11 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-LLSTD100
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:47 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.300	31	4215155	63.287	ppbV	95
26) 1,1-dichloroethene	6.582	61	3219027	68.127	ppbV	97
27) tertiary butyl alcohol	6.642	59	4324847	74.545	ppbV	95
28) methylene chloride	6.726	49	2746878	81.401	ppbV	94
29) 3-chloropropene	6.858	41	3322693	69.912	ppbV	96
30) carbon disulfide	7.032	76	6174981	79.341	ppbV	96
31) Freon 113	7.026	101	3299564	67.525	ppbV	94
32) trans-1,2-dichloroethene	7.783	61	3310249	71.066	ppbV	95
33) 1,1-dichloroethane	8.008	63	3951001	65.971	ppbV	99
34) MTBE	8.075	73	4976998	71.211	ppbV	96
35) vinyl acetate	8.192	43	5097630	78.255	ppbV	97
36) 2-butanone	8.458	43	5033938	74.725	ppbV	98
37) cis-1,2-dichloroethene	8.967	61	3061501	68.845	ppbV	96
38) Ethyl Acetate	9.233	61	879577	76.010	ppbV #	31
39) chloroform	9.308	83	3579017	74.784	ppbV	97
40) Tetrahydrofuran	9.733	42	3141902	73.963	ppbV	98
41) 2,2-dichloropropane	9.333	77	2785365	74.363	ppbV #	95
42) 1,2-dichloroethane	10.142	62	2402173	64.093	ppbV	99
44) hexane	9.217	57	4325972	86.867	ppbV	77
45) diisopropyl ether	9.208	87	2071635	93.250	ppbV	74
46) tert-butyl ethyl ether	9.825	59	7545203	82.832	ppbV	99
48) 1,1,1-trichloroethane	10.433	97	2866160	75.379	ppbV	99
49) 1,1-dichloropropene	10.800	75	3036022	89.252	ppbV	96
50) benzene	10.960	78	7009171	89.108	ppbV	98
51) thiophene	11.113	84	4440140	93.441	ppbV	97
52) carbon tetrachloride	11.133	117	2514629	84.158	ppbV	96
53) cyclohexane	11.280	56	4642428	89.939	ppbV	98
54) tert-amyl methyl ether	11.653	73	5903807	88.289	ppbV	99
55) dibromomethane	11.880	93	2079152	86.065	ppbV	95
56) 1,2-dichloropropane	11.913	63	2785260	81.826	ppbV	95
57) bromodichloromethane	12.140	83	3811510	92.308	ppbV	99
58) 1,4-dioxane	12.173	88	1738662	97.300	ppbV	98
59) trichloroethene	12.187	130	2586805	88.415	ppbV	97
60) 2,2,4-trimethylpentane	12.233	57	13660795	84.755	ppbV	97
61) methyl methacrylate	12.427	41	3158997	87.427	ppbV	96
62) heptane	12.553	43	5222907	86.617	ppbV	96
63) cis-1,3-dichloropropene	13.200	75	3654936	92.994	ppbV	100
64) 4-methyl-2-pentanone	13.233	43	6143680	89.237	ppbV	93
65) trans-1,3-dichloropropene	13.825	75	2949476	93.860	ppbV	98
66) 1,1,2-trichloroethane	14.025	97	2468209	81.911	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543637.D
 Acq On : 23 Mar 2024 3:11 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-LLSTD100
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:47 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.333	91	7945186	77.386	ppbV	98
70) 2-methylthiophene	14.400	97	5511096	75.225	ppbV	99
71) 1,3-dichloropropane	14.358	76	3834388	84.495	ppbV	99
72) 2-hexanone	14.600	43	5853255	88.139	ppbV	94
73) 3-methylthiophene	14.583	97	5959177	76.324	ppbV	98
74) dibromochloromethane	14.767	129	3240287	81.043	ppbV	99
75) 1,2-dibromoethane	15.017	107	3565198	81.664	ppbV	98
76) butyl acetate	15.242	73	1018685	89.198	ppbV	89
77) octane	15.342	85	3304226	86.604	ppbV	96
78) tetrachloroethene	15.467	166	2771632	80.314	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.100	131	2497585	78.776	ppbV	98
80) chlorobenzene	16.108	112	6073654	85.518	ppbV	95
81) ethylbenzene	16.458	91	10060955	76.570	ppbV	97
82) 2-ethylthiophene	16.500	97	6396534	74.536	ppbV	96
83) m+p-xylene	16.625	91	15826820	152.119	ppbV	94
84) bromoform	16.692	173	2930536	87.771	ppbV	94
85) styrene	16.942	104	6162527	80.807	ppbV	95
86) 1,1,2,2-tetrachloroethane	17.033	83	6056522	84.283	ppbV	97
87) o-xylene	17.042	91	7728147	72.973	ppbV	90
88) 1,2,3-trichloropropane	17.150	75	4731741	85.686	ppbV	96
89) nonane	17.233	43	8044528	83.211	ppbV #	96
91) isopropylbenzene	17.542	105	9685433	77.411	ppbV	94
92) bromobenzene	17.625	77	6190902	85.963	ppbV	93
93) 2-chlorotoluene	17.950	126	2972985	85.595	ppbV	85
94) n-propylbenzene	17.975	120	3510963	88.262	ppbV #	63
95) 4-chlorotoluene	18.008	126	2939996	85.612	ppbV	79
96) 4-ethyl toluene	18.100	105	10649320	81.277	ppbV	98
97) 1,3,5-trimethylbenzene	18.158	105	9795386	76.591	ppbV	95
98) tert-butylbenzene	18.508	119	8680600	76.085	ppbV #	88
99) 1,2,4-trimethylbenzene	18.508	105	9060866	80.619	ppbV	92
100) decane	18.583	57	9469949	81.567	ppbV #	97
101) Benzyl Chloride	18.625	91	7357705	97.967	ppbV	93
102) 1,3-dichlorobenzene	18.642	146	5790877	84.967	ppbV	92
103) 1,4-dichlorobenzene	18.692	146	5766651	85.637	ppbV	94
104) sec-butylbenzene	18.725	105	12538271	78.593	ppbV #	85
105) 1,2,3-trimethylbenzene	18.858	105	7828472	70.731	ppbV	93
106) p-isopropyltoluene	18.858	119	10166924	73.053	ppbV	92
107) 1,2-dichlorobenzene	18.983	146	5296138	80.710	ppbV	98
108) n-butylbenzene	19.200	91	10565137	77.908	ppbV #	85
109) indan	19.033	117	8446846	80.663	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543637.D
 Acq On : 23 Mar 2024 3:11 AM
 Operator : AIRLAB15:TJS
 Sample : ITO15-LLSTD100
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 23 09:48:47 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Mar 23 09:47:48 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default - All compounds listed

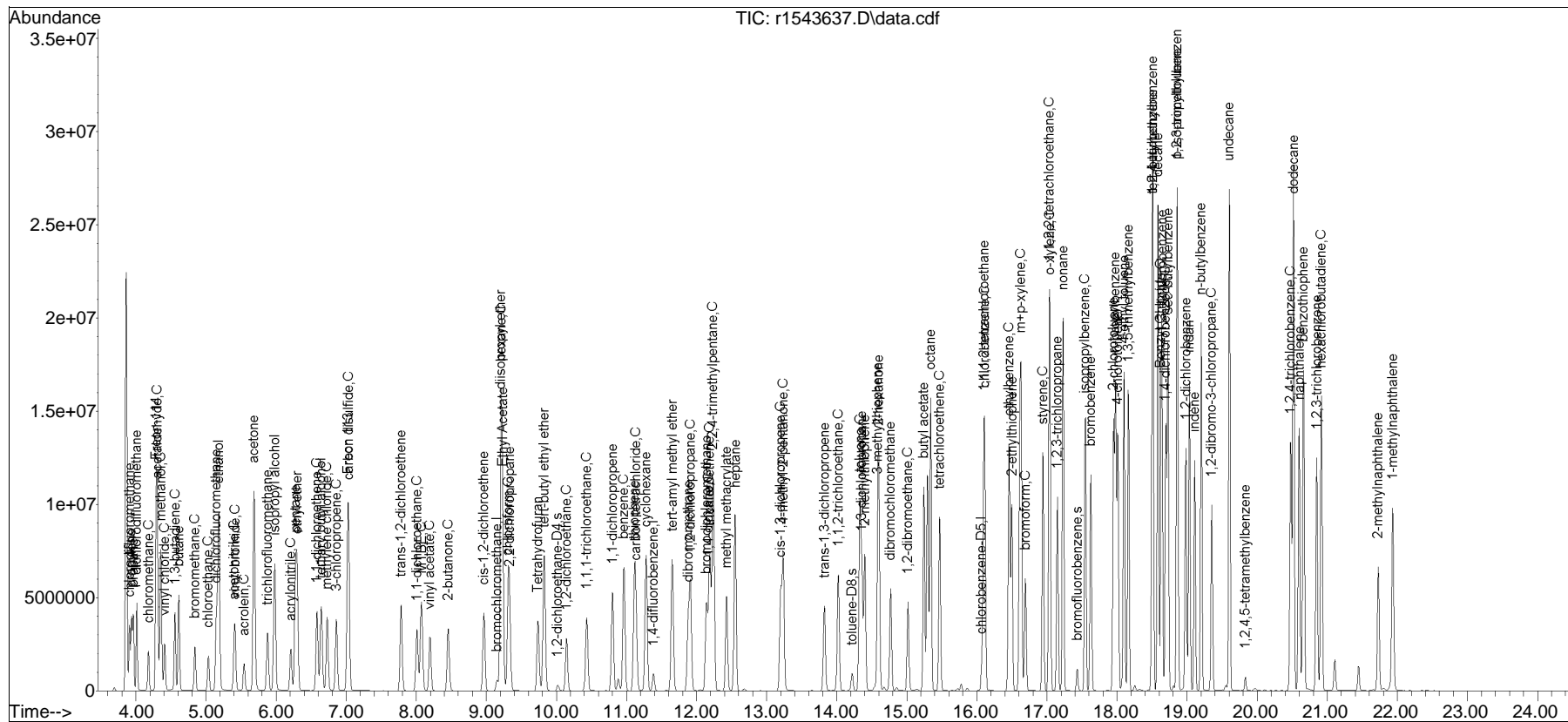
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.108	115	6097622	88.140	ppbV	96
111) 1,2-dibromo-3-chloropr...	19.350	75	2734519	90.005	ppbV #	88
112) undecane	19.600	57	10379039	79.997	ppbV #	98
113) 1,2,4,5-tetramethylben...	19.833	119	412400	75.621	ppbV	99
114) dodecane	20.517	57	10514205	84.726	ppbV	99
115) 1,2,4-trichlorobenzene	20.475	180	4639213	94.185	ppbV	96
116) naphthalene	20.600	128	11812473	85.080	ppbV	99
117) 1,2,3-trichlorobenzene	20.850	180	4240716	94.123	ppbV	95
118) benzothiophene	20.658	134	13917711	75.021	ppbV	99
119) hexachlorobutadiene	20.917	225	3557368	82.681	ppbV	93
120) 2-methylnaphthalene	21.725	142	3924785	87.335	ppbV	93
121) 1-methylnaphthalene	21.933	142	5814681	87.817	ppbV	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed4\03\0322T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543637.D
Acq On : 23 Mar 2024 3:11 AM
Operator : AIRLAB15:TJS
Sample : ITO15-LLSTD100
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

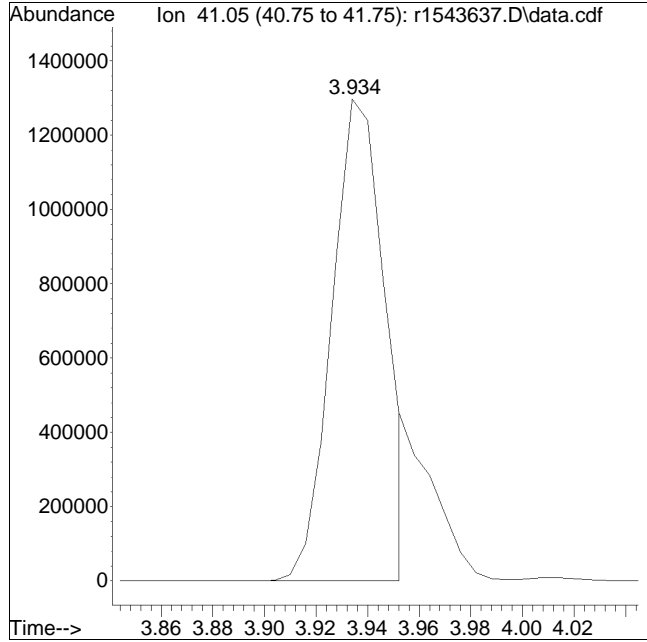
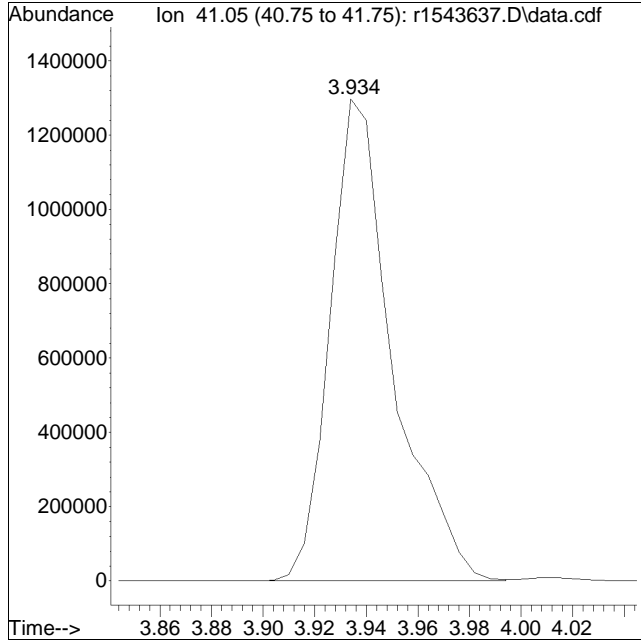
Quant Time: Mar 23 09:48:47 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 23 09:47:48 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543637.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:3: 1 Instrument :
Sample : ITO15-LLSTD100 Quant Date : 3/23/2024 9:48 am

Compound #3: propylene



Original Peak Response = 2194703

Manual Peak Response = 1866116 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CTO15-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	98	0.02
2	chlorodifluoromethane	1.069	0.842	21.2	73	0.02
3	propylene	0.561	0.572	-2.0	91	0.02
4	propane	0.822	0.757	7.9	77	0.02
5	dichlorodifluoromethane	1.109	1.010	8.9	75	0.02
6 C	chloromethane	0.625	0.562	10.1	73	0.02
7	Freon-114	1.276	1.296	-1.6	83	0.02
8 C	methanol	0.408	0.310	24.0	66	0.02
9 C	vinyl chloride	0.678	0.683	-0.7	81	0.02
10 C	1,3-butadiene	0.555	0.544	2.0	80	0.02
11	butane	1.076	1.007	6.4	78	0.02
13 C	bromomethane	0.472	0.490	-3.8	82	0.02
14 C	chloroethane	0.320	0.326	-1.9	83	0.02
15	ethanol	0.620	0.554	10.6	72	0.02
16	dichlorofluoromethane	1.169	1.044	10.7	81	0.02
17 C	vinyl bromide	0.420	0.402	4.3	77	0.02
18 C	acrolein	0.307	0.279	9.1	77	0.02
19	acetone	0.782	0.755	3.5	79	0.02
20 C	acetonitrile	0.673	0.626	7.0	80	0.02
21	trichlorofluoromethane	0.785	0.772	1.7	79	0.02
22	isopropyl alcohol	1.062	0.955	10.1	77	0.02
23 C	acrylonitrile	0.543	0.513	5.5	80	0.02
24	pentane	1.276	1.218	4.5	79	0.03
25	ethyl ether	1.285	1.171	8.9	74	0.02
26 C	1,1-dichloroethene	0.863	0.944	-9.4	89	0.02
27	tertiary butyl alcohol	1.099	1.182	-7.6	89	0.03
28 C	methylene chloride	0.775	0.766	1.2	82	0.02
29 C	3-chloropropene	0.863	0.953	-10.4	90	0.03
30 C	carbon disulfide	1.567	1.527	2.6	78	0.02
31	Freon 113	0.884	0.924	-4.5	86	0.02
32	trans-1,2-dichloroethene	0.833	0.877	-5.3	85	0.02
33 C	1,1-dichloroethane	1.044	1.103	-5.7	86	0.03
34 C	MTBE	1.377	1.376	0.1	80	0.03
35 C	vinyl acetate	1.322	1.160	12.3	71	0.03
36 C	2-butanone	1.377	1.384	-0.5	82	0.03
37	cis-1,2-dichloroethene	0.795	0.863	-8.6	87	0.03
38	Ethyl Acetate	0.211	0.231	-9.5	90	0.03
39 C	chloroform	1.067	1.021	4.3	77	0.03
40	Tetrahydrofuran	0.825	0.845	-2.4	83	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CT015-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.825	0.734	11.0	71	0.03
42 C	1,2-dichloroethane	0.708	0.667	5.8	77	0.03
43 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.03
44 C	hexane	0.534	0.557	-4.3	87	0.02
45	diisopropyl ether	0.248	0.247	0.4	83	0.03
46	tert-butyl ethyl ether	0.946	0.928	1.9	82	0.03
47 s	1,2-dichloroethane-D4	0.283	0.038	86.6#	13#	0.03
48 C	1,1,1-trichloroethane	0.392	0.369	5.9	77	0.02
49	1,1-dichloropropene	0.400	0.386	3.5	80	0.03
50 C	benzene	0.922	0.875	5.1	79	0.03
52 C	carbon tetrachloride	0.361	0.326	9.7	73	0.03
53	cyclohexane	0.564	0.593	-5.1	89	0.02
54	tert-amyl methyl ether	0.748	0.713	4.7	79	0.03
55	dibromomethane	0.253	0.254	-0.4	84	0.03
56 C	1,2-dichloropropane	0.333	0.344	-3.3	87	0.03
57	bromodichloromethane	0.507	0.495	2.4	80	0.03
58 C	1,4-dioxane	0.194	0.224	-15.5	96	0.03
59 C	trichloroethene	0.305	0.317	-3.9	87	0.03
60 C	2,2,4-trimethylpentane	1.709	1.839	-7.6	88	0.03
61	methyl methacrylate	0.395	0.424	-7.3	89	0.02
62	heptane	0.671	0.665	0.9	83	0.03
63 C	cis-1,3-dichloropropene	0.455	0.449	1.3	78	0.03
64 C	4-methyl-2-pentanone	0.790	0.791	-0.1	83	0.03
65	trans-1,3-dichloropropene	0.364	0.359	1.4	77	0.03
66 C	1,1,2-trichloroethane	0.298	0.305	-2.3	86	0.03
67 I	chlorobenzene-D5	1.000	1.000	0.0	96	0.02
68 C	toluene	4.600	4.843	-5.3	84	0.03
69 s	toluene-D8	3.775	1.734	54.1#	45#	0.02
71	1,3-dichloropropane	2.346	2.184	6.9	75	0.03
72	2-hexanone	3.231	3.555	-10.0	84	0.03
74	dibromochloromethane	1.826	2.013	-10.2	85	0.03
75 C	1,2-dibromoethane	2.080	2.059	1.0	78	0.02
76	butyl acetate	0.555	0.544	2.0	76	0.03
77	octane	1.894	1.834	3.2	79	0.02
78 C	tetrachloroethene	1.594	1.621	-1.7	80	0.02
79	1,1,1,2-tetrachloroethane	1.393	1.432	-2.8	81	0.03
80 C	chlorobenzene	3.452	3.440	0.3	79	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CT015-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81 C	ethylbenzene	5.671	6.088	-7.4	84	0.02
83 C	m+p-xylene	4.618	4.865	-5.3	83	0.02
84 C	bromoform	1.458	1.632	-11.9	83	0.02
85 C	styrene	3.383	3.587	-6.0	82	0.02
86 C	1,1,2,2-tetrachloroethane	3.560	3.719	-4.5	80	0.02
87 C	o-xylene	4.655	5.017	-7.8	83	0.03
88	1,2,3-trichloropropane	2.817	2.738	2.8	77	0.02
89	nonane	4.703	4.511	4.1	77	0.02
90 s	bromofluorobenzene	2.614	3.761	-43.9#	137	0.02
91 C	isopropylbenzene	5.764	5.927	-2.8	82	0.02
92	bromobenzene	3.682	3.606	2.1	78	0.02
93	2-chlorotoluene	1.535	1.583	-3.1	82	0.02
94	n-propylbenzene	1.831	1.902	-3.9	82	0.03
95	4-chlorotoluene	1.511	1.532	-1.4	81	0.02
96	4-ethyl toluene	6.071	6.124	-0.9	78	0.02
97	1,3,5-trimethylbenzene	5.746	6.160	-7.2	82	0.03
98	tert-butylbenzene	5.417	5.601	-3.4	80	0.02
99	1,2,4-trimethylbenzene	5.348	5.432	-1.6	79	0.02
100	decane	5.212	5.394	-3.5	81	0.02
101 C	Benzyl Chloride	3.253	3.439	-5.7	76	0.02
102	1,3-dichlorobenzene	3.112	3.179	-2.2	79	0.00
103 C	1,4-dichlorobenzene	3.093	3.118	-0.8	79	0.02
104	sec-butylbenzene	7.396	7.286	1.5	78	0.02
106	p-isopropyltoluene	7.183	6.407	10.8	71	0.02
107	1,2-dichlorobenzene	2.898	2.987	-3.1	80	0.02
108	n-butylbenzene	5.962	6.518	-9.3	84	0.02
111 C	1,2-dibromo-3-chloropropane	1.536	1.514	1.4	74	0.02
112	undecane	5.791	6.122	-5.7	80	0.00
114	dodecane	5.489	6.092	-11.0	77	0.02
115 C	1,2,4-trichlorobenzene	2.119	2.056	3.0	68	0.02
116	naphthalene	5.884	6.422	-9.1	78	0.02
117	1,2,3-trichlorobenzene	1.900	1.977	-4.1	76	0.02
119 C	hexachlorobutadiene	1.949	1.900	2.5	72	0.02

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CTO15-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
Internal Standards							
1) bromochloromethane	9.167	49	370241	10.000	ppbV	0.02	
Standard Area =	379489		Recovery =	97.56%			
43) 1,4-difluorobenzene	11.400	114	799993	10.000	ppbV	0.03	
Standard Area =	787888		Recovery =	101.54%			
67) chlorobenzene-D5	16.083	54	166281	10.000	ppbV	0.02	
Standard Area =	172589		Recovery =	96.35%			
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	10.033	65	30364	1.339	ppbV	0.03	
Spiked Amount	10.000	Range 70 - 130	Recovery =	13.39%#			
69) toluene-D8	14.233	98	288389	4.594	ppbV	0.02	
Spiked Amount	10.000	Range 70 - 130	Recovery =	45.94%#			
90) bromofluorobenzene	17.442	95	625361	14.387	ppbV	0.02	
Spiked Amount	10.000	Range 70 - 130	Recovery =	143.87%#			
Target Compounds							
							Qvalue
2) chlorodifluoromethane	3.922	51	311696	7.873	ppbV	99	
3) propylene	3.952	41	211607M6	10.182	ppbV		
4) propane	3.976	29	280318	9.212	ppbV	100	
5) dichlorodifluoromethane	4.024	85	373780	9.106	ppbV	98	
6) chloromethane	4.192	50	208145	9.001	ppbV	99	
7) Freon-114	4.300	85	479863	10.155	ppbV	99	
8) methanol	4.360	31	573871	37.994	ppbV	97	
9) vinyl chloride	4.420	62	252917	10.075	ppbV	99	
10) 1,3-butadiene	4.570	54	201322	9.800	ppbV	94	
11) butane	4.624	43	372938	9.363	ppbV	98	
13) bromomethane	4.852	94	181275	10.381	ppbV	96	
14) chloroethane	5.044	64	120537	10.162	ppbV	97	
15) ethanol	5.182	31	1025768	44.717	ppbV	99	
16) dichlorofluoromethane	5.158	67	386508	8.930	ppbV	99	
17) vinyl bromide	5.427	106	148719	9.564	ppbV	100	
18) acrolein	5.557	56	103268	9.086	ppbV	98	
19) acetone	5.697	43	1396736	48.211	ppbV	99	
20) acetonitrile	5.413	41	231938	9.304	ppbV	98	
21) trichlorofluoromethane	5.890	101	285989	9.837	ppbV	99	
22) isopropyl alcohol	5.983	45	884380	22.492	ppbV	100	
23) acrylonitrile	6.217	53	189950	9.451	ppbV	98	
24) pentane	6.293	43	450809	9.545	ppbV	100	
25) ethyl ether	6.317	31	433457	9.113	ppbV	97	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CTO15-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.594	61	349613	10.942	ppbV	98
27) tertiary butyl alcohol	6.660	59	437787	10.760	ppbV	97
28) methylene chloride	6.744	49	283696	9.892	ppbV	93
29) 3-chloropropene	6.876	41	352801	11.037	ppbV	97
30) carbon disulfide	7.044	76	565354	9.745	ppbV	97
31) Freon 113	7.044	101	342160	10.451	ppbV	99
32) trans-1,2-dichloroethene	7.800	61	324867	10.538	ppbV	98
33) 1,1-dichloroethane	8.025	63	408518	10.573	ppbV	99
34) MTBE	8.092	73	509470	9.990	ppbV	96
35) vinyl acetate	8.208	43	429579	8.780	ppbV	98
36) 2-butanone	8.467	43	512327	10.048	ppbV	99
37) cis-1,2-dichloroethene	8.975	61	319524	10.851	ppbV	97
38) Ethyl Acetate	9.250	61	85613	10.966	ppbV #	42
39) chloroform	9.317	83	378004	9.565	ppbV	98
40) Tetrahydrofuran	9.758	42	312818	10.245	ppbV	99
41) 2,2-dichloropropane	9.342	77	271576	8.886	ppbV	95
42) 1,2-dichloroethane	10.158	62	247133	9.432	ppbV	99
44) hexane	9.233	57	445831	10.430	ppbV	91
45) diisopropyl ether	9.225	87	197239	9.925	ppbV	83
46) tert-butyl ethyl ether	9.842	59	742670	9.816	ppbV	99
48) 1,1,1-trichloroethane	10.450	97	295388	9.431	ppbV	98
49) 1,1-dichloropropene	10.813	75	308909	9.648	ppbV	99
50) benzene	10.980	78	700392	9.499	ppbV	99
52) carbon tetrachloride	11.147	117	260948	9.033	ppbV	99
53) cyclohexane	11.293	56	474510	10.510	ppbV	97
54) tert-amyl methyl ether	11.667	73	570129	9.524	ppbV	99
55) dibromomethane	11.893	93	202960	10.036	ppbV	98
56) 1,2-dichloropropane	11.927	63	275296	10.331	ppbV	96
57) bromodichloromethane	12.153	83	396296	9.763	ppbV	98
58) 1,4-dioxane	12.193	88	179221	11.559	ppbV	96
59) trichloroethene	12.200	130	253244	10.375	ppbV	98
60) 2,2,4-trimethylpentane	12.253	57	1470978	10.758	ppbV	97
61) methyl methacrylate	12.440	41	339176	10.742	ppbV	98
62) heptane	12.567	43	531657	9.910	ppbV	97
63) cis-1,3-dichloropropene	13.217	75	359586	9.873	ppbV	99
64) 4-methyl-2-pentanone	13.250	43	633164	10.019	ppbV	96
65) trans-1,3-dichloropropene	13.833	75	287349	9.857	ppbV	97
66) 1,1,2-trichloroethane	14.033	97	243873	10.217	ppbV	95
68) toluene	14.342	91	805380	10.530	ppbV	100
71) 1,3-dichloropropane	14.367	76	363098	9.308	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
 Data File : r1543640.D
 Acq On : 23 Mar 2024 11:24 AM
 Operator : AIRLAB15:TJS
 Sample : CTO15-LLSTD10.0
 Misc : WG1900348
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
 Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.617	43	591062	11.003	ppbV	98
74) dibromochloromethane	14.783	129	334678	11.024	ppbV	99
75) 1,2-dibromoethane	15.025	107	342356	9.900	ppbV	98
76) butyl acetate	15.258	73	90493	9.805	ppbV	97
77) octane	15.350	85	304916	9.679	ppbV	96
78) tetrachloroethene	15.475	166	269617	10.171	ppbV	96
79) 1,1,1,2-tetrachloroethane	16.108	131	238063	10.281	ppbV	98
80) chlorobenzene	16.125	112	571975	9.965	ppbV	99
81) ethylbenzene	16.467	91	1012345	10.735	ppbV	98
83) m+p-xylene	16.633	91	1617965	21.072	ppbV	96
84) bromoform	16.700	173	271309	11.187	ppbV	95
85) styrene	16.950	104	596473	10.605	ppbV	97
86) 1,1,2,2-tetrachloroethane	17.042	83	618376	10.446	ppbV	99
87) o-xylene	17.050	91	834163	10.777	ppbV	96
88) 1,2,3-trichloropropane	17.158	75	455258	9.718	ppbV	98
89) nonane	17.242	43	750100	9.591	ppbV	96
91) isopropylbenzene	17.558	105	985488	10.282	ppbV	98
92) bromobenzene	17.633	77	599645	9.794	ppbV	97
93) 2-chlorotoluene	17.958	126	263206	10.310	ppbV	100
94) n-propylbenzene	17.992	120	316196	10.386	ppbV	97
95) 4-chlorotoluene	18.017	126	254697	10.138	ppbV	98
96) 4-ethyl toluene	18.108	105	1018368	10.088	ppbV	98
97) 1,3,5-trimethylbenzene	18.175	105	1024320	10.722	ppbV	98
98) tert-butylbenzene	18.517	119	931348	10.339	ppbV	99
99) 1,2,4-trimethylbenzene	18.517	105	903217	10.156	ppbV	100
100) decane	18.592	57	896843	10.349	ppbV	95
101) Benzyl Chloride	18.633	91	571830	10.572	ppbV	99
102) 1,3-dichlorobenzene	18.642	146	528627	10.217	ppbV	92
103) 1,4-dichlorobenzene	18.700	146	518427	10.080	ppbV	100
104) sec-butylbenzene	18.733	105	1211557	9.852	ppbV	98
106) p-isopropyltoluene	18.858	119	1065388	8.920	ppbV	93
107) 1,2-dichlorobenzene	18.983	146	496755	10.309	ppbV	96
108) n-butylbenzene	19.208	91	1083890	10.933	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.358	75	251781	9.859	ppbV	96
112) undecane	19.608	57	1017988	10.573	ppbV	96
114) dodecane	20.525	57	1012919	11.098	ppbV	96
115) 1,2,4-trichlorobenzene	20.483	180	341842	9.703	ppbV	99
116) naphthalene	20.600	128	1067910	10.916	ppbV	99
117) 1,2,3-trichlorobenzene	20.858	180	328818	10.406	ppbV	98
119) hexachlorobutadiene	20.925	225	315895	9.746	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543640.D
Acq On : 23 Mar 2024 11:24 AM
Operator : AIRLAB15:TJS
Sample : CTO15-LLSTD10.0
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 24 19:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0322T_I\r1543634.D
Sub List : Default-ICV-AP2 - All compounds listed

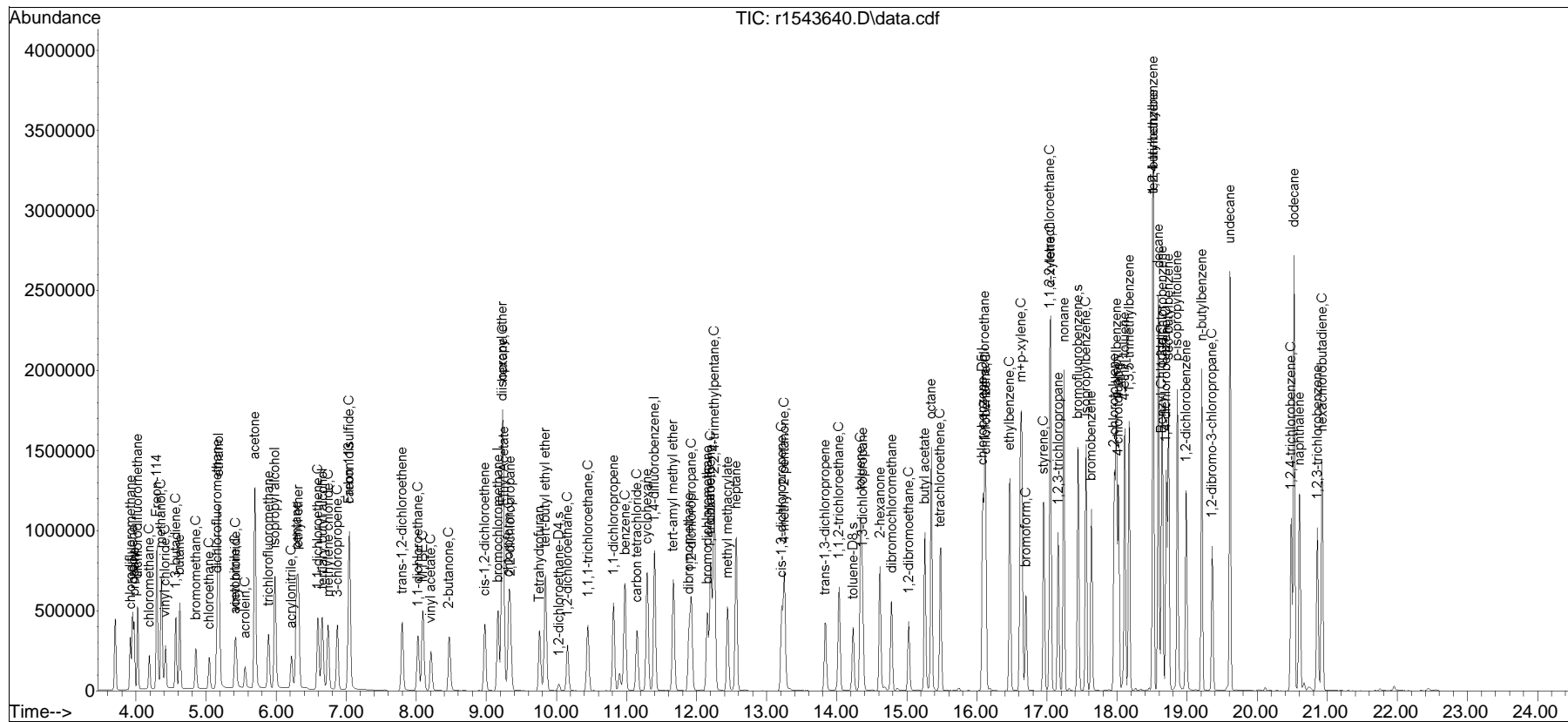
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-ICV-AP2 - All compounds listed2T_I\r1543634.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0322T_I\
Data File : r1543640.D
Acq On : 23 Mar 2024 11:24 AM
Operator : AIRLAB15:TJS
Sample : CTO15-LLSTD10.0
Misc : WG1900348
ALS Vial : 0 Sample Multiplier: 1

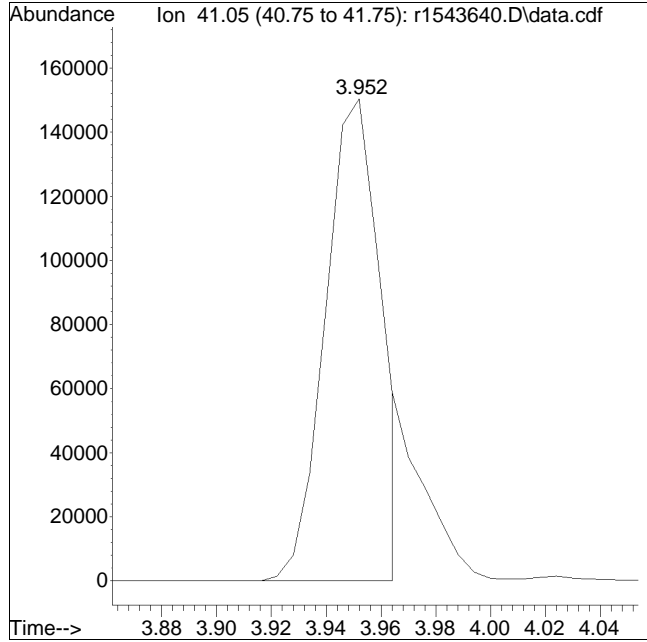
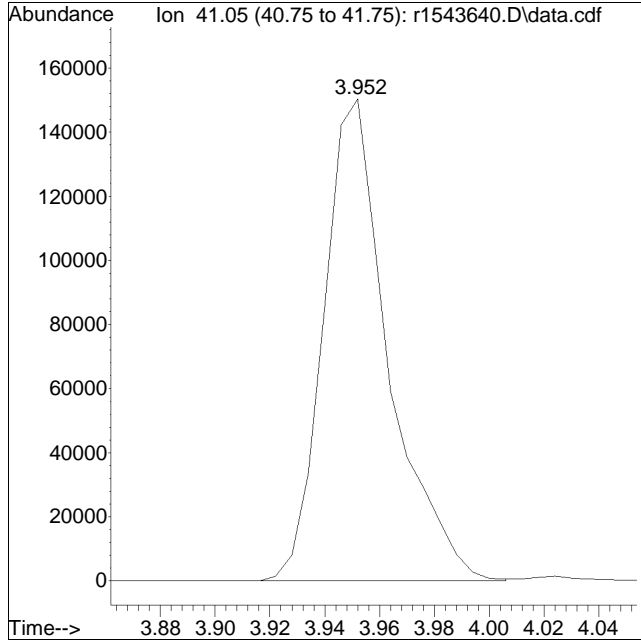
Quant Time: Mar 24 19:00:07 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0322T_I\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r1543640.D Operator : AIRLAB15:TJS
Date Inj'd : 3/23/2020 0:1: 4 Instrument :
Sample : CTO15-LLSTD10.0 Quant Date : 3/24/2024 7:00 pm

Compound #3: propylene



Original Peak Response = 247209

Manual Peak Response = 211607 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Lab File ID : R223417
 Sample No : WG1902103-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/28/24 13:50
 Init. Calib. Date(s) : 11/29/23 11/30/23
 Init. Calib. Times : 22:39 02:24

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	115	.01
chlorodifluoromethane	0.667	0.826	-	-23.8	30	131	.02
propylene	0.539	0.601	-	-11.5	30	139	.02
propane	0.434	0.44	-	-1.4	30	126	.02
dichlorodifluoromethane	0.805	0.817	-	-1.5	30	123	.02
chloromethane	0.437	0.46	-	-5.3	30	124	.02
Freon-114	1.167	1.321	-	-13.2	30	127	.02
methanol	0.174	0.17	-	2.3	30	112	.02
vinyl chloride	0.558	0.593	-	-6.3	30	121	.02
1,3-butadiene	0.412	0.481	-	-16.7	30	136	.02
butane	0.666	0.743	-	-11.6	30	130	.01
bromomethane	0.395	0.421	-	-6.6	30	122	.02
chloroethane	0.214	0.284	-	-32.7*	30	153	.02
ethanol	0.161	0.117	-	27.3	30	80	.02
dichlorofluoromethane	0.693	0.393	-	43.3*	30	69	.02
vinyl bromide	0.359	0.375	-	-4.5	30	121	.01
acrolein	0.173	0.182	-	-5.2	30	120	.02
acetone	0.322	0.385	-	-19.6	30	143	.02
acetonitrile	0.31	0.339	-	-9.4	30	130	.02
trichlorofluoromethane	0.43	0.469	-	-9.1	30	125	.02
isopropyl alcohol	0.533	0.542	-	-1.7	30	122	.01
acrylonitrile	0.339	0.375	-	-10.6	30	129	.02
pentane	0.667	0.756	-	-13.3	30	132	.02
ethyl ether	0.435	0.553	-	-27.1	30	149	.01
1,1-dichloroethene	0.827	0.993	-	-20.1	30	133	.01
tertiary butyl alcohol	1.202	1.329	-	-10.6	30	121	.01
methylene chloride	0.793	0.768	-	3.2	30	112	.02
3-chloropropene	1.074	1.124	-	-4.7	30	122	.01
carbon disulfide	2.198	1.898	-	13.6	30	100	.02
Freon 113	1.205	1.147	-	4.8	30	108	.02
trans-1,2-dichloroethene	1.022	0.959	-	6.2	30	108	.01
1,1-dichloroethane	1.305	1.24	-	5	30	107	.01
MTBE	1.895	1.854	-	2.2	30	112	.01
vinyl acetate	1.461	1.292	-	11.6	30	103	0
2-butanone	1.624	1.532	-	5.7	30	106	.01
cis-1,2-dichloroethene	0.93	0.906	-	2.6	30	110	.01
Ethyl Acetate	0.253	0.256	-	-1.2	30	113	.01
chloroform	1.147	1.141	-	0.5	30	111	.01
Tetrahydrofuran	1.033	1.005	-	2.7	30	112	0
2,2-dichloropropane	0.913	0.927	-	-1.5	30	111	.01
1,2-dichloroethane	0.652	0.691	-	-6	30	122	0
1,4-difluorobenzene	1	1	-	0	30	94	0
hexane	0.354	0.442	-	-24.9	30	114	.01

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Lab File ID : R223417
 Sample No : WG1902103-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/28/24 13:50
 Init. Calib. Date(s) : 11/29/23 11/30/23
 Init. Calib. Times : 22:39 02:24

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.222	0.243	-	-9.5	30	98	.01
tert-butyl ethyl ether	0.655	0.772	-	-17.9	30	105	.01
1,1,1-trichloroethane	0.277	0.343	-	-23.8	30	111	.01
1,1-dichloropropene	0.298	0.357	-	-19.8	30	108	0
benzene	0.746	0.802	-	-7.5	30	98	.01
carbon tetrachloride	0.248	0.309	-	-24.6	30	110	0
cyclohexane	0.405	0.479	-	-18.3	30	112	.01
tert-amyl methyl ether	0.652	0.741	-	-13.7	30	103	0
dibromomethane	0.179	0.203	-	-13.4	30	101	0
1,2-dichloropropane	0.244	0.288	-	-18	30	105	.01
bromodichloromethane	0.324	0.423	-	-30.6*	30	117	0
1,4-dioxane	0.163	0.184	-	-12.9	30	103	0
trichloroethene	0.295	0.326	-	-10.5	30	97	0
2,2,4-trimethylpentane	1.128	1.431	-	-26.9	30	115	0
methyl methacrylate	0.243	0.352	-	-44.9*	30	127	0
heptane	0.446	0.577	-	-29.4	30	118	.01
cis-1,3-dichloropropene	0.356	0.42	-	-18	30	104	0
4-methyl-2-pentanone	0.496	0.684	-	-37.9*	30	122	.01
trans-1,3-dichloropropene	0.292	0.339	-	-16.1	30	105	0
1,1,2-trichloroethane	0.264	0.292	-	-10.6	30	100	0
chlorobenzene-D5	1	1	-	0	30	123	0
toluene	8.341	6.982	-	16.3	30	100	0
1,3-dichloropropane	3.773	3.248	-	13.9	30	103	0
2-hexanone	4.893	4.677	-	4.4	30	116	0
dibromochloromethane	3.317	2.997	-	9.6	30	109	0
1,2-dibromoethane	3.674	2.983	-	18.8	30	98	0
butyl acetate	1.221	1.005	-	17.7	30	98	0
octane	3.408	2.917	-	14.4	30	101	0
tetrachloroethene	3.236	2.54	-	21.5	30	92	0
1,1,1,2-tetrachloroethane	2.579	2.19	-	15.1	30	100	0
chlorobenzene	6.452	5.377	-	16.7	30	98	0
ethylbenzene	10.089	8.546	-	15.3	30	100	0
m+p-xylene	7.856	7.11	-	9.5	30	105	0
bromoform	2.719	2.347	-	13.7	30	102	0
styrene	7.041	5.686	-	19.2	30	94	0
1,1,2,2-tetrachloroethane	5.266	4.742	-	10	30	104	0
o-xylene	7.67	7.142	-	6.9	30	107	0
1,2,3-trichloropropane	4.388	3.823	-	12.9	30	104	0
nonane	6.152	5.888	-	4.3	30	112	0
isopropylbenzene	10.609	9.315	-	12.2	30	102	0
bromobenzene	5.784	5.156	-	10.9	30	105	0
2-chlorotoluene	3.252	2.802	-	13.8	30	100	0
n-propylbenzene	3.785	3.248	-	14.2	30	97	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Lab File ID : R223417
 Sample No : WG1902103-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/28/24 13:50
 Init. Calib. Date(s) : 11/29/23 11/30/23
 Init. Calib. Times : 22:39 02:24

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	3.266	2.488	-	23.8	30	89	0
4-ethyl toluene	11.333	9.678	-	14.6	30	100	0
1,3,5-trimethylbenzene	9.277	8.436	-	9.1	30	105	0
tert-butylbenzene	9.219	8.485	-	8	30	105	0
1,2,4-trimethylbenzene	8.866	8.165	-	7.9	30	106	0
decane	7.401	6.876	-	7.1	30	107	0
Benzyl Chloride	5.322	5.135	-	3.5	30	106	0
1,3-dichlorobenzene	6.511	5.125	-	21.3	30	89	0
1,4-dichlorobenzene	6.244	5.097	-	18.4	30	91	0
sec-butylbenzene	13.163	11.722	-	10.9	30	102	0
p-isopropyltoluene	11.031	9.684	-	12.2	30	100	0
1,2-dichlorobenzene	6.119	4.819	-	21.2	30	88	0
n-butylbenzene	9.879	9.105	-	7.8	30	105	0
1,2-dibromo-3-chloropropan	2.162	2.081	-	3.7	30	112	0
undecane	7.983	7.506	-	6	30	104	0
dodecane	7.434	6.763	-	9	30	96	0
1,2,4-trichlorobenzene	4.807	3.363	-	30	30	72	0
naphthalene	11.66	10.265	-	12	30	93	0
1,2,3-trichlorobenzene	4.229	3.145	-	25.6	30	78	0
hexachlorobutadiene	3.689	2.788	-	24.4	30	84	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB15
 Lab File ID : R15436789
 Sample No : WG1902670-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/29/24 13:29
 Init. Calib. Date(s) : 03/22/24 03/23/24
 Init. Calib. Times : 22:17 03:11

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	95	.08
chlorodifluoromethane	1.069	0.887	-	17	30	75	.05
propylene	0.561	0.524	-	6.6	30	81	.05
propane	0.822	0.712	-	13.4	30	70	.05
dichlorodifluoromethane	1.109	1.112	-	-0.3	30	80	.06
chloromethane	0.625	0.595	-	4.8	30	75	.06
Freon-114	1.276	1.36	-	-6.6	30	84	.06
methanol	0.408	0.315	-	22.8	30	65	.07
vinyl chloride	0.678	0.618	-	8.8	30	71	.07
1,3-butadiene	0.555	0.563	-	-1.4	30	80	.07
butane	1.076	0.974	-	9.5	30	74	.07
bromomethane	0.472	0.446	-	5.5	30	73	.07
chloroethane	0.32	0.293	-	8.4	30	73	.07
ethanol	0.62	0.476	-	23.2	30	60	.07
dichlorofluoromethane	1.169	0.951	-	18.6	30	71	.07
vinyl bromide	0.42	0.378	-	10	30	70	.08
acrolein	0.307	0.268	-	12.7	30	72	.08
acetone	0.782	0.738	-	5.6	30	75	.08
acetonitrile	0.673	0.559	-	16.9	30	70	.08
trichlorofluoromethane	0.785	0.741	-	5.6	30	74	.08
isopropyl alcohol	1.062	0.907	-	14.6	30	70	.08
acrylonitrile	0.543	0.506	-	6.8	30	76	.08
pentane	1.276	1.364	-	-6.9	30	85	.08
ethyl ether	1.285	1.379	-	-7.3	30	85	.08
1,1-dichloroethene	0.863	0.8	-	7.3	30	73	.08
tertiary butyl alcohol	1.099	0.927	-	15.7	30	68	.08
methylene chloride	0.775	0.723	-	6.7	30	75	.08
3-chloropropene	0.863	0.834	-	3.4	30	76	.08
carbon disulfide	1.567	1.351	-	13.8	30	67	.08
Freon 113	0.884	0.82	-	7.2	30	74	.08
trans-1,2-dichloroethene	0.833	0.731	-	12.2	30	68	.08
1,1-dichloroethane	1.044	0.941	-	9.9	30	71	.08
MTBE	1.377	1.318	-	4.3	30	74	.08
vinyl acetate	1.322	1.093	-	17.3	30	65	.08
2-butanone	1.377	1.322	-	4	30	76	.08
cis-1,2-dichloroethene	0.795	0.737	-	7.3	30	72	.08
Ethyl Acetate	0.211	0.186	-	11.8	30	70	.08
chloroform	1.067	1.017	-	4.7	30	74	.08
Tetrahydrofuran	0.825	0.774	-	6.2	30	74	.08
2,2-dichloropropane	0.825	0.785	-	4.8	30	74	.08
1,2-dichloroethane	0.708	0.671	-	5.2	30	75	.08
1,4-difluorobenzene	1	1	-	0	30	93	.08
hexane	0.534	0.477	-	10.7	30	68	.08

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB15
 Lab File ID : R15436789
 Sample No : WG1902670-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/29/24 13:29
 Init. Calib. Date(s) : 03/22/24 03/23/24
 Init. Calib. Times : 22:17 03:11

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.248	0.207	-	16.5	30	64	.08
tert-butyl ethyl ether	0.946	0.803	-	15.1	30	65	.08
1,1,1-trichloroethane	0.392	0.382	-	2.6	30	73	.08
1,1-dichloropropene	0.4	0.406	-	-1.5	30	77	.09
benzene	0.922	0.842	-	8.7	30	70	.08
carbon tetrachloride	0.361	0.371	-	-2.8	30	76	.09
cyclohexane	0.564	0.509	-	9.8	30	71	.08
tert-amyl methyl ether	0.748	0.688	-	8	30	70	.08
dibromomethane	0.253	0.228	-	9.9	30	70	.08
1,2-dichloropropane	0.333	0.299	-	10.2	30	70	.08
bromodichloromethane	0.507	0.505	-	0.4	30	75	.08
1,4-dioxane	0.194	0.187	-	3.6	30	74	.08
trichloroethene	0.305	0.269	-	11.8	30	68	.08
2,2,4-trimethylpentane	1.709	1.591	-	6.9	30	70	.08
methyl methacrylate	0.395	0.431	-	-9.1	30	83	.07
heptane	0.671	0.676	-	-0.7	30	78	.07
cis-1,3-dichloropropene	0.455	0.457	-	-0.4	30	73	.08
4-methyl-2-pentanone	0.79	0.807	-	-2.2	30	78	.08
trans-1,3-dichloropropene	0.364	0.377	-	-3.6	30	74	.07
1,1,2-trichloroethane	0.298	0.278	-	6.7	30	72	.08
chlorobenzene-D5	1	1	-	0	30	94	.06
toluene	4.6	3.992	-	13.2	30	68	.07
1,3-dichloropropane	2.346	2.179	-	7.1	30	73	.07
2-hexanone	3.231	3.463	-	-7.2	30	80	.07
dibromochloromethane	1.826	1.776	-	2.7	30	73	.07
1,2-dibromoethane	2.08	1.999	-	3.9	30	74	.06
butyl acetate	0.555	0.519	-	6.5	30	71	.07
octane	1.894	1.579	-	16.6	30	67	.06
tetrachloroethene	1.594	1.399	-	12.2	30	67	.06
1,1,1,2-tetrachloroethane	1.393	1.269	-	8.9	30	70	.07
chlorobenzene	3.452	3.119	-	9.6	30	70	.07
ethylbenzene	5.671	5.117	-	9.8	30	69	.06
m+p-xylene	4.618	4.274	-	7.4	30	71	.06
bromoform	1.458	1.448	-	0.7	30	72	.06
styrene	3.383	3.278	-	3.1	30	73	.06
1,1,2,2-tetrachloroethane	3.56	3.334	-	6.3	30	70	.06
o-xylene	4.655	4.463	-	4.1	30	72	.06
1,2,3-trichloropropane	2.817	2.689	-	4.5	30	74	.06
nonane	4.703	4.444	-	5.5	30	74	.05
isopropylbenzene	5.764	5.636	-	2.2	30	76	.05
bromobenzene	3.682	3.487	-	5.3	30	74	.06
2-chlorotoluene	1.535	1.343	-	12.5	30	68	.06
n-propylbenzene	1.831	1.614	-	11.9	30	68	.06

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB15
 Lab File ID : R15436789
 Sample No : WG1902670-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/29/24 13:29
 Init. Calib. Date(s) : 03/22/24 03/23/24
 Init. Calib. Times : 22:17 03:11

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	1.511	1.329	-	12	30	68	.06
4-ethyl toluene	6.071	5.838	-	3.8	30	73	.05
1,3,5-trimethylbenzene	5.746	5.815	-	-1.2	30	76	.06
tert-butylbenzene	5.417	5.108	-	5.7	30	71	.05
1,2,4-trimethylbenzene	5.348	5.343	-	0.1	30	76	.05
decane	5.212	4.691	-	10	30	69	.05
Benzyl Chloride	3.253	2.878	-	11.5	30	62	.05
1,3-dichlorobenzene	3.112	3.004	-	3.5	30	73	.05
1,4-dichlorobenzene	3.093	2.983	-	3.6	30	74	.06
sec-butylbenzene	7.396	7.075	-	4.3	30	74	.05
p-isopropyltoluene	7.183	6.256	-	12.9	30	68	.06
1,2-dichlorobenzene	2.898	2.784	-	3.9	30	72	.06
n-butylbenzene	5.962	5.744	-	3.7	30	72	.05
1,2-dibromo-3-chloropropan	1.536	1.511	-	1.6	30	72	.05
undecane	5.791	5.341	-	7.8	30	68	.05
dodecane	5.489	5.16	-	6	30	64	.06
1,2,4-trichlorobenzene	2.119	1.776	-	16.2	30	57	.06
naphthalene	5.884	5.372	-	8.7	30	64	.06
1,2,3-trichlorobenzene	1.9	1.738	-	8.5	30	65	.06
hexachlorobutadiene	1.949	1.736	-	10.9	30	64	.06

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	115	0.01
2	chlorodifluoromethane	0.667	0.826	-23.8	131	0.02
3	propylene	0.539	0.601	-11.5	139	0.02
4	propane	0.434	0.440	-1.4	126	0.02
5	dichlorodifluoromethane	0.805	0.817	-1.5	123	0.02
6 C	chloromethane	0.437	0.460	-5.3	124	0.02
7	Freon-114	1.167	1.321	-13.2	127	0.02
8 C	methanol	0.174	0.170	2.3	112	0.02
9 C	vinyl chloride	0.558	0.593	-6.3	121	0.02
10 C	1,3-butadiene	0.412	0.481	-16.7	136	0.02
11	butane	0.666	0.743	-11.6	130	0.01
13 C	bromomethane	0.395	0.421	-6.6	122	0.02
14 C	chloroethane	0.214	0.284	-32.7#	153#	0.02
15	ethanol	0.161	0.117	27.3	80	0.02
16	dichlorofluoromethane	0.693	0.393	43.3#	69	0.02
17 C	vinyl bromide	0.359	0.375	-4.5	121	0.01
18 C	acrolein	0.173	0.182	-5.2	120	0.02
19	acetone	0.322	0.385	-19.6	143#	0.02
20 C	acetonitrile	0.310	0.339	-9.4	130	0.02
21	trichlorofluoromethane	0.430	0.469	-9.1	125	0.02
22	isopropyl alcohol	0.533	0.542	-1.7	122	0.01
23 C	acrylonitrile	0.339	0.375	-10.6	129	0.02
24	pentane	0.667	0.756	-13.3	132	0.02
25	ethyl ether	0.435	0.553	-27.1	149#	0.01
26 C	1,1-dichloroethene	0.827	0.993	-20.1	133	0.01
27	tertiary butyl alcohol	1.202	1.329	-10.6	121	0.01
28 C	methylene chloride	0.793	0.768	3.2	112	0.02
29 C	3-chloropropene	1.074	1.124	-4.7	122	0.01
30 C	carbon disulfide	2.198	1.898	13.6	100	0.02
31	Freon 113	1.205	1.147	4.8	108	0.02
32	trans-1,2-dichloroethene	1.022	0.959	6.2	108	0.01
33 C	1,1-dichloroethane	1.305	1.240	5.0	107	0.01
34 C	MTBE	1.895	1.854	2.2	112	0.01
35 C	vinyl acetate	1.461	1.292	11.6	103	0.00
36 C	2-butanone	1.624	1.532	5.7	106	0.01
37	cis-1,2-dichloroethene	0.930	0.906	2.6	110	0.01
38	Ethyl Acetate	0.253	0.256	-1.2	113	0.01
39 C	chloroform	1.147	1.141	0.5	111	0.01
40	Tetrahydrofuran	1.033	1.005	2.7	112	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.913	0.927	-1.5	111	0.01
42 C	1,2-dichloroethane	0.652	0.691	-6.0	122	0.00
43 I	1,4-difluorobenzene	1.000	1.000	0.0	94	0.00
44 C	hexane	0.354	0.442	-24.9	114	0.01
45	diisopropyl ether	0.222	0.243	-9.5	98	0.01
46	tert-butyl ethyl ether	0.655	0.772	-17.9	105	0.01
48 C	1,1,1-trichloroethane	0.277	0.343	-23.8	111	0.01
49	1,1-dichloropropene	0.298	0.357	-19.8	108	0.00
50 C	benzene	0.746	0.802	-7.5	98	0.01
52 C	carbon tetrachloride	0.248	0.309	-24.6	110	0.00
53	cyclohexane	0.405	0.479	-18.3	112	0.01
54	tert-amyl methyl ether	0.652	0.741	-13.7	103	0.00
55	dibromomethane	0.179	0.203	-13.4	101	0.00
56 C	1,2-dichloropropane	0.244	0.288	-18.0	105	0.01
57	bromodichloromethane	0.324	0.423	-30.6#	117	0.00
58 C	1,4-dioxane	0.163	0.184	-12.9	103	0.00
59 C	trichloroethene	0.295	0.326	-10.5	97	0.00
60 C	2,2,4-trimethylpentane	1.128	1.431	-26.9	115	0.00
61	methyl methacrylate	0.243	0.352	-44.9#	127	0.00
62	heptane	0.446	0.577	-29.4	118	0.01
63 C	cis-1,3-dichloropropene	0.356	0.420	-18.0	104	0.00
64 C	4-methyl-2-pentanone	0.496	0.684	-37.9#	122	0.01
65	trans-1,3-dichloropropene	0.292	0.339	-16.1	105	0.00
66 C	1,1,2-trichloroethane	0.264	0.292	-10.6	100	0.00
67 I	chlorobenzene-D5	1.000	1.000	0.0	123	0.00
68 C	toluene	8.341	6.982	16.3	100	0.00
71	1,3-dichloropropane	3.773	3.248	13.9	103	0.00
72	2-hexanone	4.893	4.677	4.4	116	0.00
74	dibromochloromethane	3.317	2.997	9.6	109	0.00
75 C	1,2-dibromoethane	3.674	2.983	18.8	98	0.00
76	butyl acetate	1.221	1.005	17.7	98	0.00
77	octane	3.408	2.917	14.4	101	0.00
78 C	tetrachloroethene	3.236	2.540	21.5	92	0.00
79	1,1,1,2-tetrachloroethane	2.579	2.190	15.1	100	0.00
80 C	chlorobenzene	6.452	5.377	16.7	98	0.00
81 C	ethylbenzene	10.089	8.546	15.3	100	0.00
83 C	m+p-xylene	7.856	7.110	9.5	105	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	2.719	2.347	13.7	102	0.00
85 C	styrene	7.041	5.686	19.2	94	0.00
86 C	1,1,2,2-tetrachloroethane	5.266	4.742	10.0	104	0.00
87 C	o-xylene	7.670	7.142	6.9	107	0.00
88	1,2,3-trichloropropane	4.388	3.823	12.9	104	0.00
89	nonane	6.152	5.888	4.3	112	0.00
91 C	isopropylbenzene	10.609	9.315	12.2	102	0.00
92	bromobenzene	5.784	5.156	10.9	105	0.00
93	2-chlorotoluene	3.252	2.802	13.8	100	0.00
94	n-propylbenzene	3.785	3.248	14.2	97	0.00
95	4-chlorotoluene	3.266	2.488	23.8	89	0.00
96	4-ethyl toluene	11.333	9.678	14.6	100	0.00
97	1,3,5-trimethylbenzene	9.277	8.436	9.1	105	0.00
98	tert-butylbenzene	9.219	8.485	8.0	105	0.00
99	1,2,4-trimethylbenzene	8.866	8.165	7.9	106	0.00
100	decane	7.401	6.876	7.1	107	0.00
101 C	Benzyl Chloride	5.322	5.135	3.5	106	0.00
102	1,3-dichlorobenzene	6.511	5.125	21.3	89	0.00
103 C	1,4-dichlorobenzene	6.244	5.097	18.4	91	0.00
104	sec-butylbenzene	13.163	11.722	10.9	102	0.00
106	p-isopropyltoluene	11.031	9.684	12.2	100	0.00
107	1,2-dichlorobenzene	6.119	4.819	21.2	88	0.00
108	n-butylbenzene	9.879	9.105	7.8	105	0.00
111 C	1,2-dibromo-3-chloropropane	2.162	2.081	3.7	112	0.00
112	undecane	7.983	7.506	6.0	104	0.00
114	dodecane	7.434	6.763	9.0	96	0.00
115 C	1,2,4-trichlorobenzene	4.807	3.363	30.0#	72	0.00
116	naphthalene	11.660	10.265	12.0	93	0.00
117	1,2,3-trichlorobenzene	4.229	3.145	25.6	78	0.00
119 C	hexachlorobutadiene	3.689	2.788	24.4	84	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	222450	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	100.00%		
43) 1,4-difluorobenzene	5.383	114	633782	10.000	ppbV	0.00
Standard Area =	633782		Recovery =	100.00%		
67) chlorobenzene-D5	7.353	54	85965	10.000	ppbV	0.00
Standard Area =	85965		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	2.160	51	183647	12.377	ppbV	99
3) propylene	2.180	41	133694M6	11.149	ppbV	
4) propane	2.195	29	97933	10.140	ppbV #	90
5) dichlorodifluoromethane	2.225	85	181666	10.140	ppbV	100
6) chloromethane	2.330	50	102262	10.520	ppbV	99
7) Freon-114	2.390	85	293825	11.323	ppbV	93
8) methanol	2.415	31	189250	48.813	ppbV #	83
9) vinyl chloride	2.455	62	132016	10.634	ppbV	100
10) 1,3-butadiene	2.525	54	107061	11.675	ppbV	95
11) butane	2.550	43	165255	11.149	ppbV	99
13) bromomethane	2.650	94	93671	10.663	ppbV	99
14) chloroethane	2.725	64	63245	13.269	ppbV	99
15) ethanol	2.770	31	130009	36.387	ppbV	96
16) dichlorofluoromethane	2.770	67	87420	5.674	ppbV	99
17) vinyl bromide	2.881	106	83513	10.454	ppbV	97
18) acrolein	2.929	56	40451	10.536	ppbV	97
19) acetone	2.986	43	428665	59.896	ppbV	97
20) acetonitrile	2.866	41	75318	10.937	ppbV	99
21) trichlorofluoromethane	3.073	101	104397	10.924	ppbV	100
22) isopropyl alcohol	3.094	45	301542	25.413	ppbV	100
23) acrylonitrile	3.205	53	83433	11.073	ppbV	98
24) pentane	3.241	43	168142	11.326	ppbV	97
25) ethyl ether	3.247	31	123113	12.730	ppbV	95
26) 1,1-dichloroethene	3.370	61	220838	12.010	ppbV	91
27) tertiary butyl alcohol	3.385	59	295672	11.062	ppbV	95
28) methylene chloride	3.430	49	170881	9.690	ppbV	91
29) 3-chloropropene	3.485	41	250091	10.469	ppbV	94
30) carbon disulfide	3.575	76	422251	8.637	ppbV	96
31) Freon 113	3.555	101	255230	9.523	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	3.883	61	213384	9.382	ppbV	93
33) 1,1-dichloroethane	3.977	63	275825	9.503	ppbV	100
34) MTBE	4.003	73	412478	9.783	ppbV	98
35) vinyl acetate	4.043	43	287434	8.842	ppbV	97
36) 2-butanone	4.163	43	340696	9.433	ppbV	96
37) cis-1,2-dichloroethene	4.383	61	201556	9.746	ppbV	90
38) Ethyl Acetate	4.483	61	57021	10.146	ppbV	91
39) chloroform	4.523	83	253913	9.956	ppbV	98
40) Tetrahydrofuran	4.710	42	223504	9.723	ppbV	96
41) 2,2-dichloropropane	4.537	77	206288	10.157	ppbV	93
42) 1,2-dichloroethane	4.877	62	153624	10.594	ppbV	96
44) hexane	4.483	57	279855	12.486	ppbV	99
45) diisopropyl ether	4.477	87	154134	10.969	ppbV	79
46) tert-butyl ethyl ether	4.737	59	489547	11.790	ppbV	97
48) 1,1,1-trichloroethane	5.003	97	217480	12.402	ppbV	95
49) 1,1-dichloropropene	5.150	75	226141	11.971	ppbV	93
50) benzene	5.223	78	508303	10.752	ppbV	96
52) carbon tetrachloride	5.290	117	195768	12.451	ppbV	100
53) cyclohexane	5.357	56	303360	11.822	ppbV	91
54) tert-amyl methyl ether	5.497	73	469504	11.360	ppbV	97
55) dibromomethane	5.590	93	128517	11.310	ppbV	93
56) 1,2-dichloropropane	5.610	63	182547	11.828	ppbV #	97
57) bromodichloromethane	5.697	83	268060	13.050	ppbV	99
58) 1,4-dioxane	5.710	88	116827	11.323	ppbV	93
59) trichloroethene	5.717	130	206840	11.069	ppbV	98
60) 2,2,4-trimethylpentane	5.737	57	906770	12.679	ppbV	96
61) methyl methacrylate	5.803	41	223140	14.464	ppbV	90
62) heptane	5.857	43	365533	12.931	ppbV	95
63) cis-1,3-dichloropropene	6.113	75	266042	11.804	ppbV	94
64) 4-methyl-2-pentanone	6.127	43	433534	13.793	ppbV	94
65) trans-1,3-dichloropropene	6.347	75	214645	11.604	ppbV	95
66) 1,1,2-trichloroethane	6.427	97	185352	11.093	ppbV	94
68) toluene	6.553	91	600170	8.370	ppbV	100
71) 1,3-dichloropropane	6.567	76	279178	8.607	ppbV	91
72) 2-hexanone	6.667	43	402095	9.559	ppbV	95
74) dibromochloromethane	6.747	129	257604	9.035	ppbV	99
75) 1,2-dibromoethane	6.860	107	256430	8.119	ppbV	99
76) butyl acetate	6.947	73	86424	8.233	ppbV	86
77) octane	6.993	85	250732	8.558	ppbV	89
78) tetrachloroethene	7.067	166	218344	7.848	ppbV #	91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-2,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

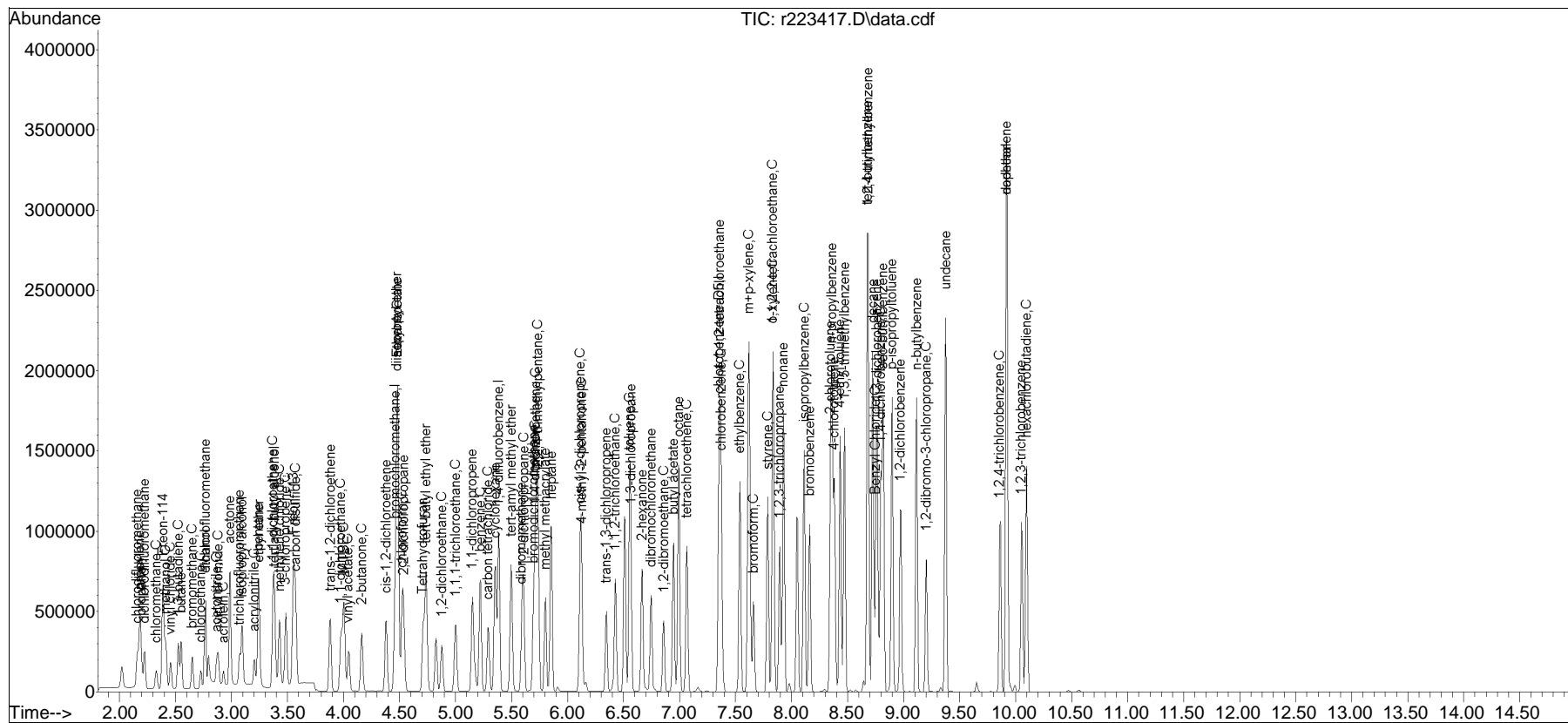
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	7.360	131	188266	8.490	ppbV	99
80) chlorobenzene	7.373	112	462208	8.334	ppbV	94
81) ethylbenzene	7.540	91	734630	8.470	ppbV	97
83) m+p-xylene	7.620	91	1222434	18.102	ppbV	96
84) bromoform	7.660	173	201793	8.633	ppbV	100
85) styrene	7.787	104	488808	8.076	ppbV	94
86) 1,1,2,2-tetrachloroethane	7.833	83	407614	9.003	ppbV	98
87) o-xylene	7.833	91	613940	9.311	ppbV	97
88) 1,2,3-trichloropropane	7.893	75	328627	8.712	ppbV	98
89) nonane	7.927	43	506179	9.572	ppbV	96
91) isopropylbenzene	8.113	105	800752	8.780	ppbV	98
92) bromobenzene	8.160	77	443246	8.914	ppbV	94
93) 2-chlorotoluene	8.347	126	240886	8.617	ppbV	86
94) n-propylbenzene	8.360	120	279207	8.580	ppbV	82
95) 4-chlorotoluene	8.380	126	213920	7.619	ppbV	87
96) 4-ethyl toluene	8.433	105	831931	8.539	ppbV	99
97) 1,3,5-trimethylbenzene	8.473	105	725172	9.093	ppbV	96
98) tert-butylbenzene	8.677	119	729428	9.204	ppbV	97
99) 1,2,4-trimethylbenzene	8.683	105	701934	9.210	ppbV	93
100) decane	8.723	57	591114	9.290	ppbV	96
101) Benzyl Chloride	8.750	91	441392	9.647	ppbV	96
102) 1,3-dichlorobenzene	8.763	146	440569	7.872	ppbV	95
103) 1,4-dichlorobenzene	8.797	146	438125	8.162	ppbV	95
104) sec-butylbenzene	8.817	105	1007642	8.905	ppbV	98
106) p-isopropyltoluene	8.897	119	832516	8.779	ppbV	99
107) 1,2-dichlorobenzene	8.970	146	414242	7.876	ppbV	95
108) n-butylbenzene	9.117	91	782725	9.217	ppbV	93
111) 1,2-dibromo-3-chloropr...	9.203	75	178926	9.626	ppbV #	77
112) undecane	9.377	57	645226	9.402	ppbV #	95
114) dodecane	9.918	57	581415	9.098	ppbV	95
115) 1,2,4-trichlorobenzene	9.857	180	289118	6.996	ppbV	94
116) naphthalene	9.918	128	882413	8.803	ppbV	98
117) 1,2,3-trichlorobenzene	10.053	180	270320	7.435	ppbV	95
119) hexachlorobutadiene	10.098	225	239683	7.557	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed8T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223417.D
Acq On : 28 Mar 2024 1:50 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-2,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

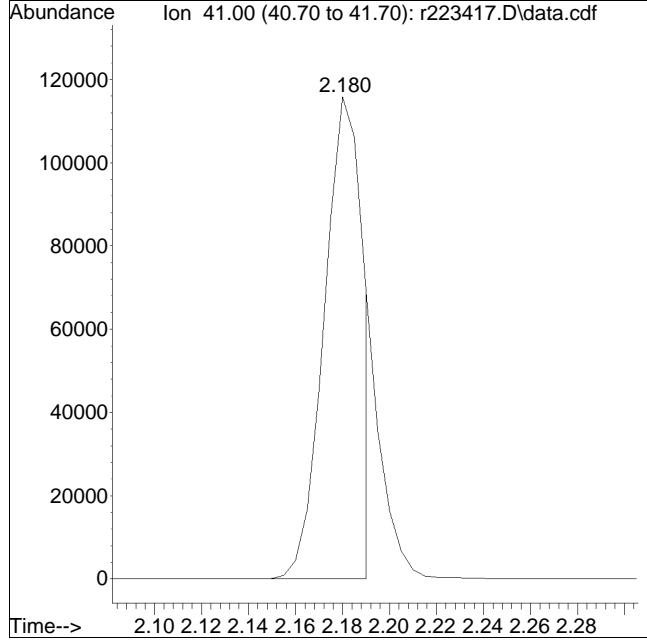
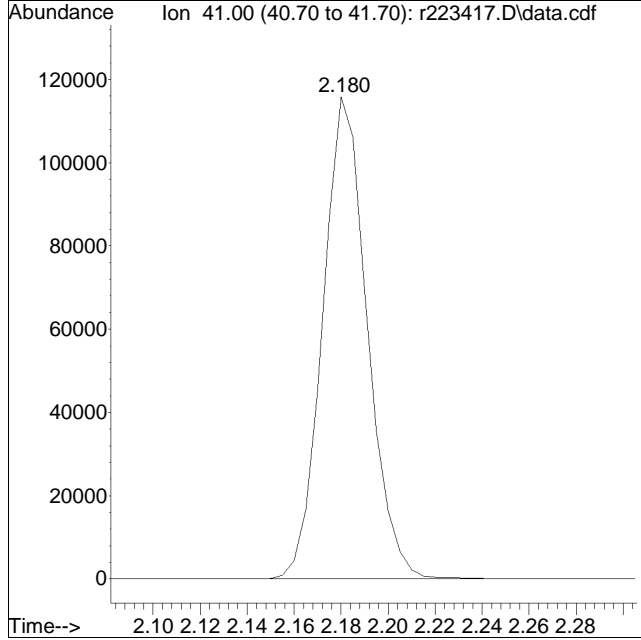
Quant Time: Mar 28 14:18:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223417.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 0 Instrument :
Sample : WG1902103-2,3,250,250 Quant Date : 3/28/2024 2:18 pm

Compound #3: propylene



Original Peak Response = 152538

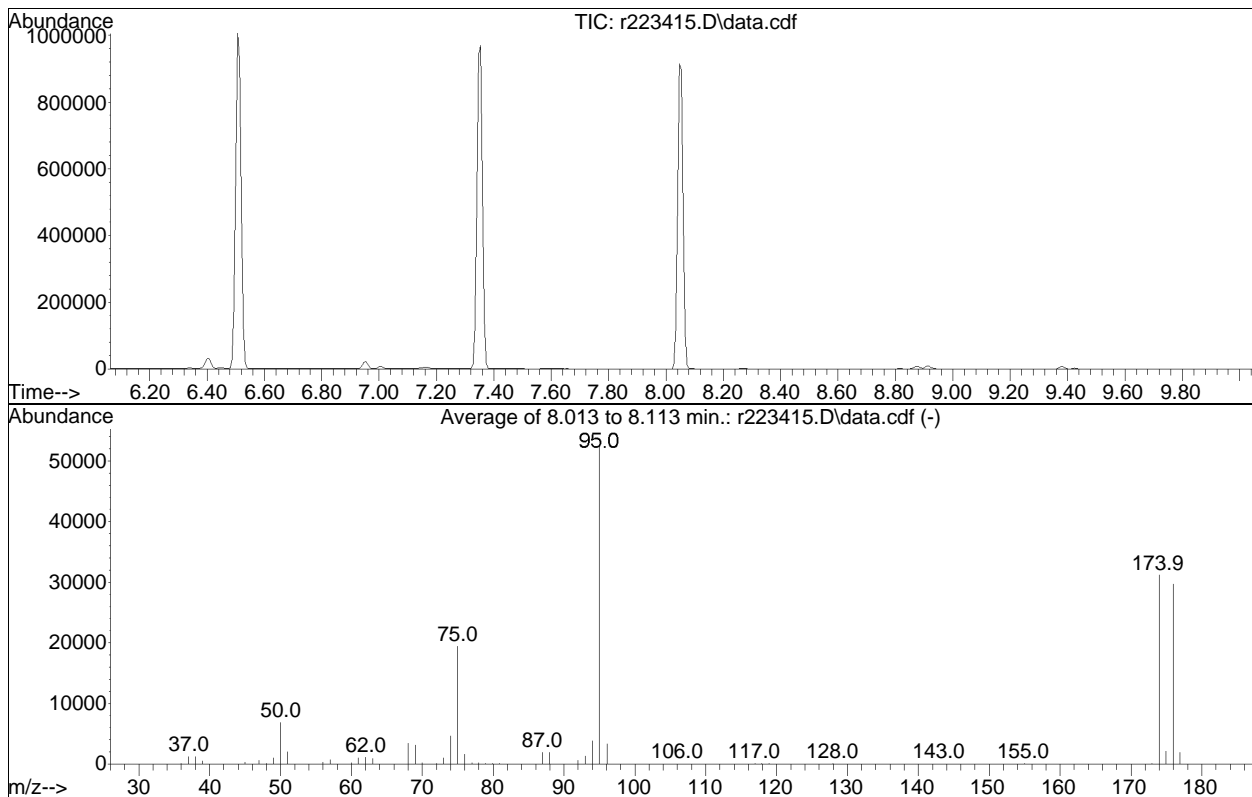
Manual Peak Response = 133694 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223415.D
 Acq On : 28 Mar 2024 12:41 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-1,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 08:46:43 2023



Spectrum Information: Average of 8.013 to 8.113 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.0	6865	PASS
75	95	30	66	37.0	19499	PASS
95	95	100	100	100.0	52698	PASS
96	95	5	9	6.5	3406	PASS
173	174	0.00	2	0.4	136	PASS
174	95	50	120	59.3	31273	PASS
175	174	4	9	6.8	2135	PASS
176	174	93	101	95.1	29737	PASS
177	176	5	9	6.7	2005	PASS

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	95	0.08
2	chlorodifluoromethane	1.069	0.887	17.0	75	0.05
3	propylene	0.561	0.524	6.6	81	0.05
4	propane	0.822	0.712	13.4	70	0.05
5	dichlorodifluoromethane	1.109	1.112	-0.3	80	0.06
6 C	chloromethane	0.625	0.595	4.8	75	0.06
7	Freon-114	1.276	1.360	-6.6	84	0.06
8 C	methanol	0.408	0.315	22.8	65	0.07
9 C	vinyl chloride	0.678	0.618	8.8	71	0.07
10 C	1,3-butadiene	0.555	0.563	-1.4	80	0.07
11	butane	1.076	0.974	9.5	74	0.07
13 C	bromomethane	0.472	0.446	5.5	73	0.07
14 C	chloroethane	0.320	0.293	8.4	73	0.07
15	ethanol	0.620	0.476	23.2	60	0.07
16	dichlorofluoromethane	1.169	0.951	18.6	71	0.07
17 C	vinyl bromide	0.420	0.378	10.0	70	0.08
18 C	acrolein	0.307	0.268	12.7	72	0.08
19	acetone	0.782	0.738	5.6	75	0.08
20 C	acetonitrile	0.673	0.559	16.9	70	0.08
21	trichlorofluoromethane	0.785	0.741	5.6	74	0.08
22	isopropyl alcohol	1.062	0.907	14.6	70	0.08
23 C	acrylonitrile	0.543	0.506	6.8	76	0.08
24	pentane	1.276	1.364	-6.9	85	0.08
25	ethyl ether	1.285	1.379	-7.3	85	0.08
26 C	1,1-dichloroethene	0.863	0.800	7.3	73	0.08
27	tertiary butyl alcohol	1.099	0.927	15.7	68	0.08
28 C	methylene chloride	0.775	0.723	6.7	75	0.08
29 C	3-chloropropene	0.863	0.834	3.4	76	0.08
30 C	carbon disulfide	1.567	1.351	13.8	67	0.08
31	Freon 113	0.884	0.820	7.2	74	0.08
32	trans-1,2-dichloroethene	0.833	0.731	12.2	68	0.08
33 C	1,1-dichloroethane	1.044	0.941	9.9	71	0.08
34 C	MTBE	1.377	1.318	4.3	74	0.08
35 C	vinyl acetate	1.322	1.093	17.3	65	0.08
36 C	2-butanone	1.377	1.322	4.0	76	0.08
37	cis-1,2-dichloroethene	0.795	0.737	7.3	72	0.08
38	Ethyl Acetate	0.211	0.186	11.8	70	0.08
39 C	chloroform	1.067	1.017	4.7	74	0.08
40	Tetrahydrofuran	0.825	0.774	6.2	74	0.08

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	0.825	0.785	4.8	74	0.08
42 C	1,2-dichloroethane	0.708	0.671	5.2	75	0.08
43 I	1,4-difluorobenzene	1.000	1.000	0.0	93	0.08
44 C	hexane	0.534	0.477	10.7	68	0.08
45	diisopropyl ether	0.248	0.207	16.5	64	0.08
46	tert-butyl ethyl ether	0.946	0.803	15.1	65	0.08
48 C	1,1,1-trichloroethane	0.392	0.382	2.6	73	0.08
49	1,1-dichloropropene	0.400	0.406	-1.5	77	0.09
50 C	benzene	0.922	0.842	8.7	70	0.08
52 C	carbon tetrachloride	0.361	0.371	-2.8	76	0.09
53	cyclohexane	0.564	0.509	9.8	71	0.08
54	tert-amyl methyl ether	0.748	0.688	8.0	70	0.08
55	dibromomethane	0.253	0.228	9.9	70	0.08
56 C	1,2-dichloropropane	0.333	0.299	10.2	70	0.08
57	bromodichloromethane	0.507	0.505	0.4	75	0.08
58 C	1,4-dioxane	0.194	0.187	3.6	74	0.08
59 C	trichloroethene	0.305	0.269	11.8	68	0.08
60 C	2,2,4-trimethylpentane	1.709	1.591	6.9	70	0.08
61	methyl methacrylate	0.395	0.431	-9.1	83	0.07
62	heptane	0.671	0.676	-0.7	78	0.07
63 C	cis-1,3-dichloropropene	0.455	0.457	-0.4	73	0.08
64 C	4-methyl-2-pentanone	0.790	0.807	-2.2	78	0.08
65	trans-1,3-dichloropropene	0.364	0.377	-3.6	74	0.07
66 C	1,1,2-trichloroethane	0.298	0.278	6.7	72	0.08
67 I	chlorobenzene-D5	1.000	1.000	0.0	94	0.06
68 C	toluene	4.600	3.992	13.2	68	0.07
71	1,3-dichloropropane	2.346	2.179	7.1	73	0.07
72	2-hexanone	3.231	3.463	-7.2	80	0.07
74	dibromochloromethane	1.826	1.776	2.7	73	0.07
75 C	1,2-dibromoethane	2.080	1.999	3.9	74	0.06
76	butyl acetate	0.555	0.519	6.5	71	0.07
77	octane	1.894	1.579	16.6	67	0.06
78 C	tetrachloroethene	1.594	1.399	12.2	67	0.06
79	1,1,1,2-tetrachloroethane	1.393	1.269	8.9	70	0.07
80 C	chlorobenzene	3.452	3.119	9.6	70	0.07
81 C	ethylbenzene	5.671	5.117	9.8	69	0.06
83 C	m+p-xylene	4.618	4.274	7.4	71	0.06

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84 C	bromoform	1.458	1.448	0.7	72	0.06
85 C	styrene	3.383	3.278	3.1	73	0.06
86 C	1,1,2,2-tetrachloroethane	3.560	3.334	6.3	70	0.06
87 C	o-xylene	4.655	4.463	4.1	72	0.06
88	1,2,3-trichloropropane	2.817	2.689	4.5	74	0.06
89	nonane	4.703	4.444	5.5	74	0.05
91 C	isopropylbenzene	5.764	5.636	2.2	76	0.05
92	bromobenzene	3.682	3.487	5.3	74	0.06
93	2-chlorotoluene	1.535	1.343	12.5	68	0.06
94	n-propylbenzene	1.831	1.614	11.9	68	0.06
95	4-chlorotoluene	1.511	1.329	12.0	68	0.06
96	4-ethyl toluene	6.071	5.838	3.8	73	0.05
97	1,3,5-trimethylbenzene	5.746	5.815	-1.2	76	0.06
98	tert-butylbenzene	5.417	5.108	5.7	71	0.05
99	1,2,4-trimethylbenzene	5.348	5.343	0.1	76	0.05
100	decane	5.212	4.691	10.0	69	0.05
101 C	Benzyl Chloride	3.253	2.878	11.5	62	0.05
102	1,3-dichlorobenzene	3.112	3.004	3.5	73	0.05
103 C	1,4-dichlorobenzene	3.093	2.983	3.6	74	0.06
104	sec-butylbenzene	7.396	7.075	4.3	74	0.05
106	p-isopropyltoluene	7.183	6.256	12.9	68	0.06
107	1,2-dichlorobenzene	2.898	2.784	3.9	72	0.06
108	n-butylbenzene	5.962	5.744	3.7	72	0.05
111 C	1,2-dibromo-3-chloropropane	1.536	1.511	1.6	72	0.05
112	undecane	5.791	5.341	7.8	68	0.05
114	dodecane	5.489	5.160	6.0	64	0.06
115 C	1,2,4-trichlorobenzene	2.119	1.776	16.2	57#	0.06
116	naphthalene	5.884	5.372	8.7	64	0.06
117	1,2,3-trichlorobenzene	1.900	1.738	8.5	65	0.06
119 C	hexachlorobutadiene	1.949	1.736	10.9	64	0.06

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.225	49	358796	10.000	ppbV	0.08
Standard Area =	358796		Recovery =	100.00%		
43) 1,4-difluorobenzene	11.453	114	735074	10.000	ppbV	0.08
Standard Area =	735074		Recovery =	100.00%		
67) chlorobenzene-D5	16.125	54	162298	10.000	ppbV	0.06
Standard Area =	162298		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) chlorodifluoromethane	3.958	51	318402	8.299	ppbV	98
3) propylene	3.988	41	188168M6	9.343	ppbV	
4) propane	4.012	29	255642	8.669	ppbV	97
5) dichlorodifluoromethane	4.066	85	398934	10.029	ppbV	100
6) chloromethane	4.234	50	213494	9.526	ppbV	100
7) Freon-114	4.342	85	487989	10.656	ppbV	92
8) methanol	4.408	31	564300	38.553	ppbV	99
9) vinyl chloride	4.468	62	221595	9.109	ppbV	100
10) 1,3-butadiene	4.612	54	202167	10.155	ppbV	92
11) butane	4.672	43	349605	9.058	ppbV	99
13) bromomethane	4.900	94	160200	9.467	ppbV	99
14) chloroethane	5.098	64	105063	9.140	ppbV	99
15) ethanol	5.230	31	854669	38.447	ppbV	99
16) dichlorofluoromethane	5.206	67	341371	8.139	ppbV	99
17) vinyl bromide	5.480	106	135608	8.999	ppbV	98
18) acrolein	5.610	56	96057	8.722	ppbV	97
19) acetone	5.750	43	1324607	47.180	ppbV	99
20) acetonitrile	5.467	41	200716	8.309	ppbV	98
21) trichlorofluoromethane	5.947	101	265986	9.441	ppbV	98
22) isopropyl alcohol	6.037	45	813747	21.355	ppbV	99
23) acrylonitrile	6.277	53	181391	9.313	ppbV	98
24) pentane	6.347	43	489524	10.695	ppbV	100
25) ethyl ether	6.373	31	494720	10.732	ppbV	96
26) 1,1-dichloroethene	6.654	61	287135	9.273	ppbV	98
27) tertiary butyl alcohol	6.714	59	332562	8.435	ppbV	92
28) methylene chloride	6.798	49	259421	9.334	ppbV	93
29) 3-chloropropene	6.930	41	299124	9.657	ppbV	99
30) carbon disulfide	7.104	76	484786	8.623	ppbV	97
31) Freon 113	7.098	101	294262	9.274	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
32) trans-1,2-dichloroethene	7.858	61	262341	8.782	ppbV	100
33) 1,1-dichloroethane	8.083	63	337764	9.021	ppbV	99
34) MTBE	8.150	73	472970	9.570	ppbV	97
35) vinyl acetate	8.267	43	392079	8.269	ppbV	97
36) 2-butanone	8.525	43	474500	9.603	ppbV	99
37) cis-1,2-dichloroethene	9.033	61	264375	9.265	ppbV	99
38) Ethyl Acetate	9.300	61	66690	8.815	ppbV	83
39) chloroform	9.375	83	364773	9.525	ppbV	99
40) Tetrahydrofuran	9.817	42	277664	9.384	ppbV	100
41) 2,2-dichloropropane	9.400	77	281691	9.511	ppbV	99
42) 1,2-dichloroethane	10.217	62	240666	9.478	ppbV	99
44) hexane	9.292	57	350548	8.925	ppbV	78
45) diisopropyl ether	9.283	87	152291	8.340	ppbV	76
46) tert-butyl ethyl ether	9.900	59	590374	8.492	ppbV	97
48) 1,1,1-trichloroethane	10.508	97	281071	9.766	ppbV	99
49) 1,1-dichloropropene	10.873	75	298274	10.139	ppbV	98
50) benzene	11.033	78	618623	9.131	ppbV	99
52) carbon tetrachloride	11.207	117	272656	10.272	ppbV	96
53) cyclohexane	11.353	56	374471	9.027	ppbV	96
54) tert-amyl methyl ether	11.720	73	505388	9.189	ppbV	98
55) dibromomethane	11.947	93	167333	9.005	ppbV	98
56) 1,2-dichloropropane	11.980	63	220018	8.986	ppbV	98
57) bromodichloromethane	12.207	83	371544	9.961	ppbV	97
58) 1,4-dioxane	12.247	88	137652	9.662	ppbV	98
59) trichloroethene	12.253	130	197975	8.827	ppbV	95
60) 2,2,4-trimethylpentane	12.307	57	1169712	9.310	ppbV	95
61) methyl methacrylate	12.493	41	316464	10.907	ppbV	98
62) heptane	12.613	43	497057	10.083	ppbV	94
63) cis-1,3-dichloropropene	13.267	75	336216	10.046	ppbV	100
64) 4-methyl-2-pentanone	13.300	43	592865	10.210	ppbV	95
65) trans-1,3-dichloropropene	13.883	75	277074	10.344	ppbV	97
66) 1,1,2-trichloroethane	14.083	97	204700	9.333	ppbV	98
68) toluene	14.383	91	647853	8.678	ppbV	98
71) 1,3-dichloropropane	14.408	76	353626	9.288	ppbV	97
72) 2-hexanone	14.658	43	561973	10.718	ppbV	89
74) dibromochloromethane	14.825	129	288189	9.725	ppbV	97
75) 1,2-dibromoethane	15.067	107	324414	9.611	ppbV	95
76) butyl acetate	15.300	73	84270	9.355	ppbV	91
77) octane	15.392	85	256249	8.334	ppbV	90
78) tetrachloroethene	15.517	166	226988	8.773	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-2,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

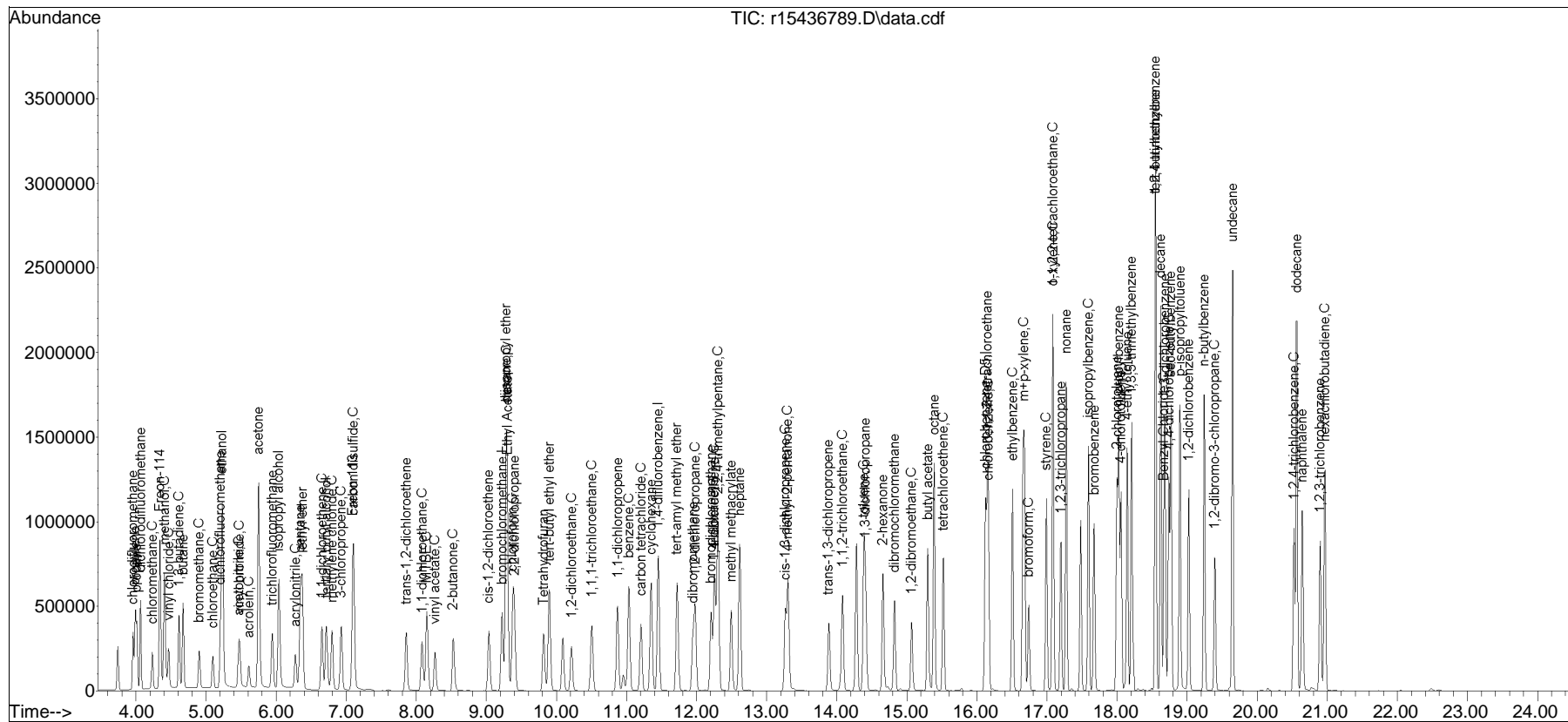
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.150	131	205941	9.112	ppbV	97
80) chlorobenzene	16.167	112	506170	9.035	ppbV	97
81) ethylbenzene	16.508	91	830413	9.022	ppbV	98
83) m+p-xylene	16.667	91	1387432	18.513	ppbV	98
84) bromoform	16.742	173	235083	9.931	ppbV	97
85) styrene	16.992	104	531949	9.690	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.083	83	541088	9.365	ppbV	100
87) o-xylene	17.083	91	724366	9.588	ppbV	97
88) 1,2,3-trichloropropane	17.200	75	436381	9.543	ppbV	99
89) nonane	17.275	43	721256	9.449	ppbV	92
91) isopropylbenzene	17.592	105	914722	9.778	ppbV	98
92) bromobenzene	17.675	77	565889	9.469	ppbV	91
93) 2-chlorotoluene	18.000	126	217890	8.744	ppbV	78
94) n-propylbenzene	18.025	120	261882	8.813	ppbV	97
95) 4-chlorotoluene	18.058	126	215678M3	8.795	ppbV	
96) 4-ethyl toluene	18.142	105	947560	9.617	ppbV	97
97) 1,3,5-trimethylbenzene	18.208	105	943763	10.121	ppbV	97
98) tert-butylbenzene	18.550	119	829036	9.429	ppbV	98
99) 1,2,4-trimethylbenzene	18.550	105	867196	9.990	ppbV	98
100) decane	18.625	57	761284	9.000	ppbV	92
101) Benzyl Chloride	18.667	91	467149	8.849	ppbV	99
102) 1,3-dichlorobenzene	18.683	146	487561	9.655	ppbV	99
103) 1,4-dichlorobenzene	18.742	146	484130M3	9.644	ppbV	
104) sec-butylbenzene	18.767	105	1148234	9.566	ppbV	98
106) p-isopropyltoluene	18.900	119	1015315	8.709	ppbV	99
107) 1,2-dichlorobenzene	19.025	146	451757	9.605	ppbV	98
108) n-butylbenzene	19.242	91	932178	9.634	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.392	75	245254	9.839	ppbV	95
112) undecane	19.650	57	866814	9.224	ppbV	94
114) dodecane	20.567	57	837452	9.401	ppbV	92
115) 1,2,4-trichlorobenzene	20.525	180	288215	8.381	ppbV #	91
116) naphthalene	20.642	128	871798	9.130	ppbV	99
117) 1,2,3-trichlorobenzene	20.900	180	282043	9.145	ppbV	97
119) hexachlorobutadiene	20.967	225	281686	8.904	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed9T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436789.D
Acq On : 29 Mar 2024 1:29 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-2,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

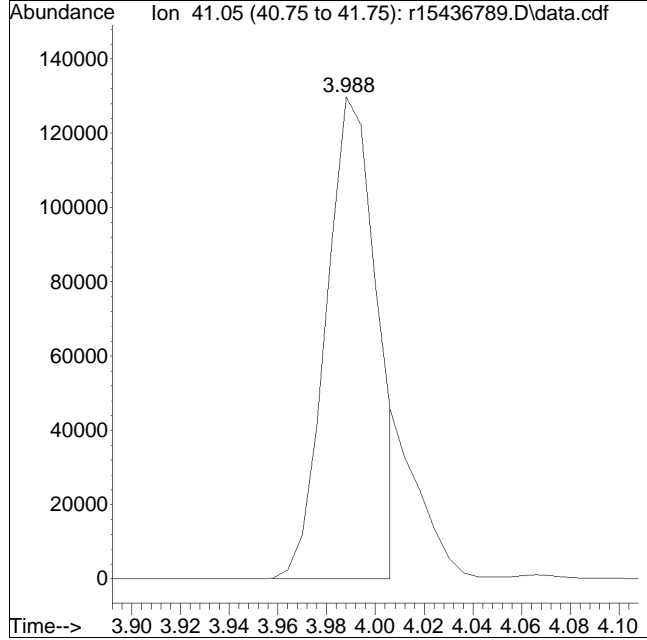
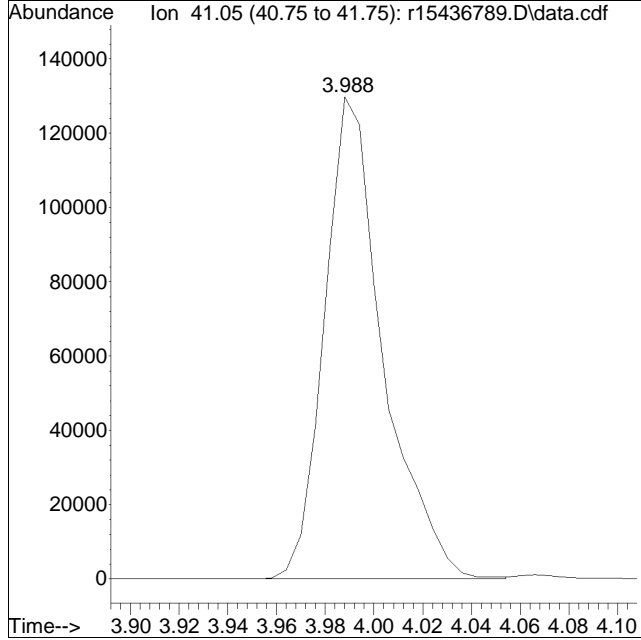
Quant Time: Mar 29 14:50:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436789.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:1: 9 Instrument :
Sample : WG1902670-2,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #3: propylene



Original Peak Response = 216986

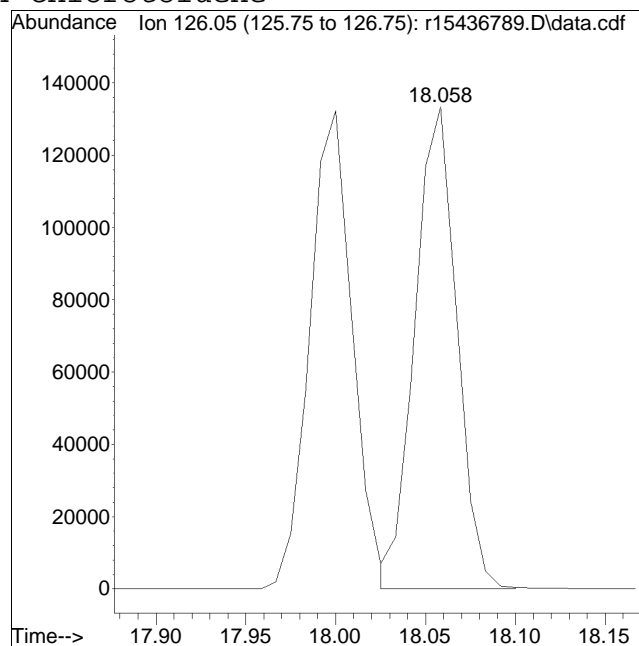
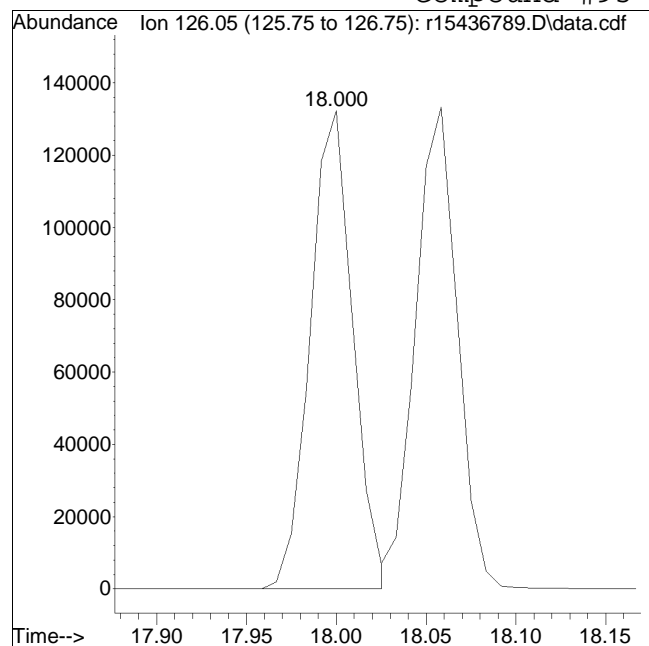
Manual Peak Response = 188168 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436789.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:1: 9 Instrument :
Sample : WG1902670-2,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #95: 4-chlorotoluene



Original Peak Response = 217890

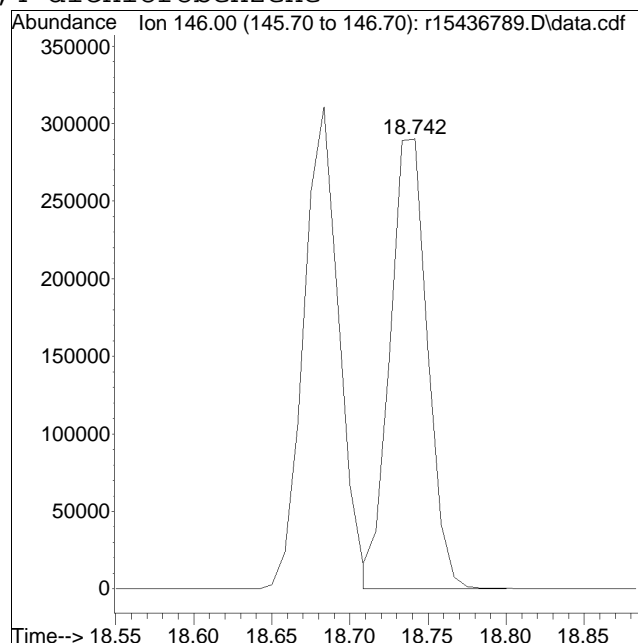
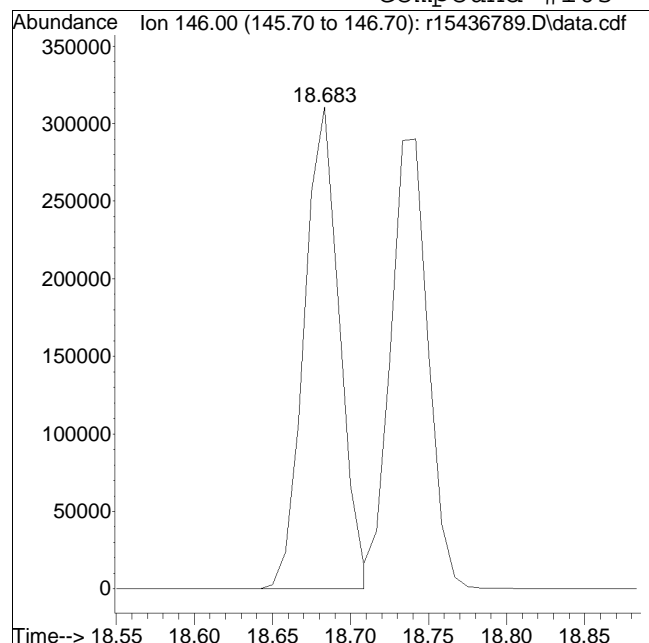
Manual Peak Response = 215678 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436789.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:1: 9 Instrument :
Sample : WG1902670-2,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 487561

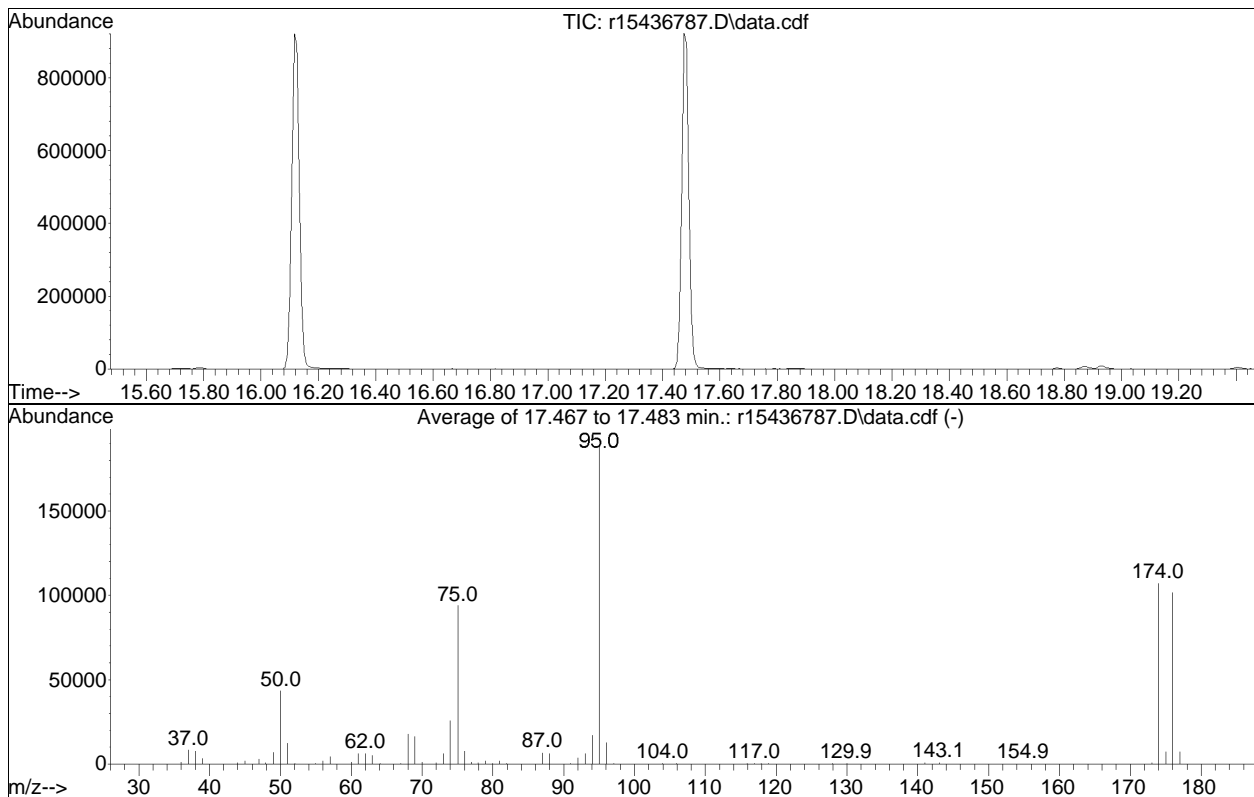
Manual Peak Response = 484130 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436787.D
 Acq On : 29 Mar 2024 12:46 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-1,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab15\2024\03\0329SIM\TSIM15_240322.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Mar 24 19:26:00 2024



Spectrum Information: Average of 17.467 to 17.483 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	22.9	43344	PASS
75	95	30	66	49.6	93927	PASS
95	95	100	100	100.0	189323	PASS
96	95	5	9	6.6	12585	PASS
173	174	0.00	2	0.6	614	PASS
174	95	50	120	56.6	107150	PASS
175	174	4	9	6.9	7365	PASS
176	174	93	101	94.8	101552	PASS
177	176	5	9	7.1	7188	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223419.D
 Acq On : 28 Mar 2024 4:41 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-4,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:37:02 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.463	49	214196	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	96.29%		
43) 1,4-difluorobenzene	5.390	114	605209	10.000	ppbV	0.01
Standard Area =	633782		Recovery =	95.49%		
67) chlorobenzene-D5	7.353	54	83556	10.000	ppbV #	0.00
Standard Area =	85965		Recovery =	97.20%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	d	
6) chloromethane	2.175		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	520	0.151	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.998	43	1461	0.212	ppbV #	82
21) trichlorofluoromethane	0.000		0	N.D.	d	
22) isopropyl alcohol	3.106	45	1533	0.134	ppbV #	85
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	3.435		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	3.555		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	4.177		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	4.730		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223419.D
 Acq On : 28 Mar 2024 4:41 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-4,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:37:02 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	0.000		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	d
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.140		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	0.000		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	0.000		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	0.000		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	0.000		0		N.D.	
96) 4-ethyl toluene	8.473		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.817		0		N.D.	
101) Benzyl Chloride	8.683		0		N.D.	
102) 1,3-dichlorobenzene	8.763		0		N.D.	
103) 1,4-dichlorobenzene	8.763		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	9.865		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	9.955		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223419.D
Acq On : 28 Mar 2024 4:41 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-4,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:37:02 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

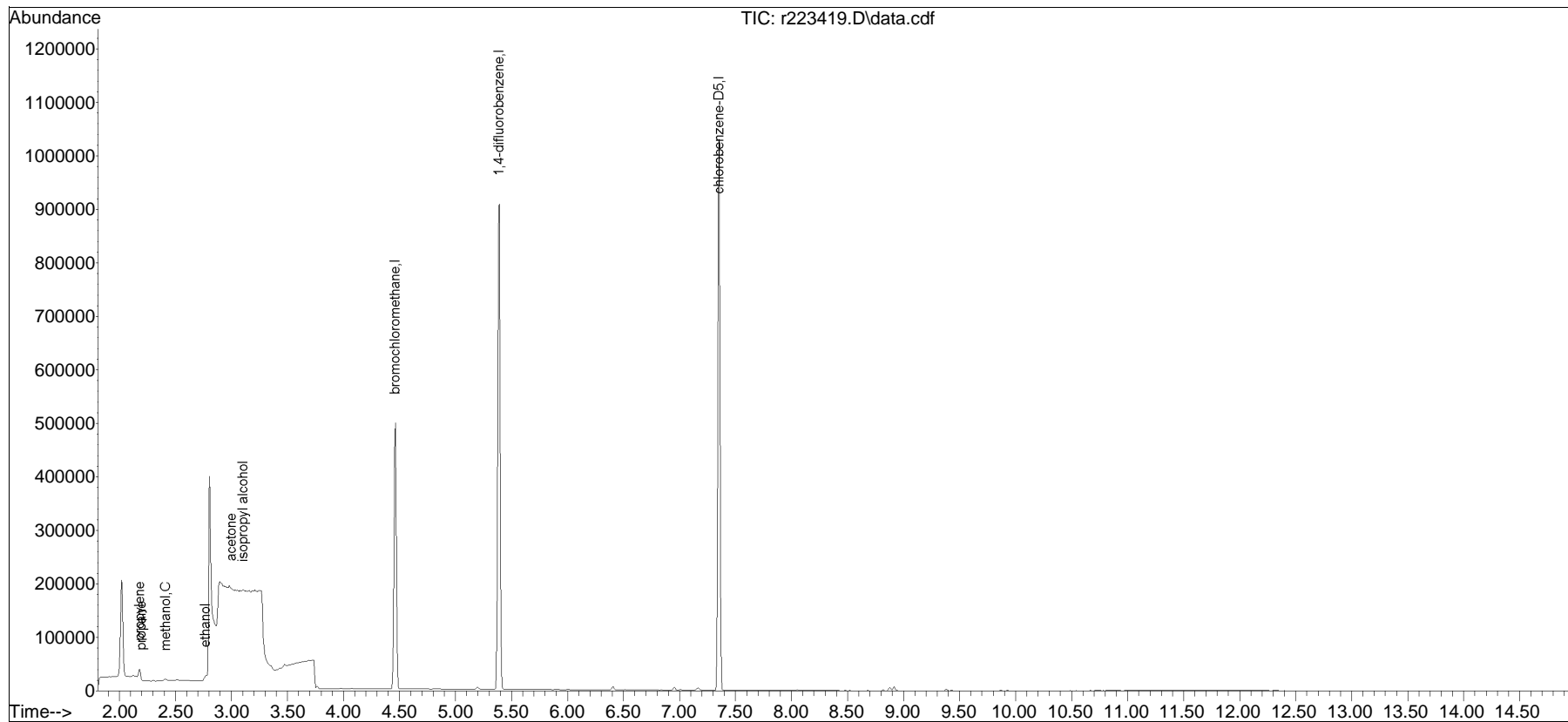
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
Sub List : Default-LCS-AP2 - All compounds listed

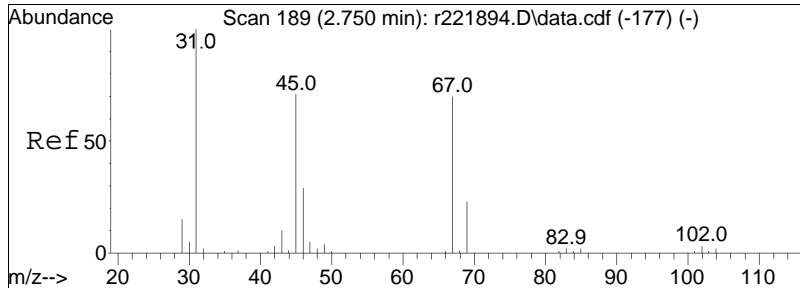
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed8T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223419.D
Acq On : 28 Mar 2024 4:41 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-4,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

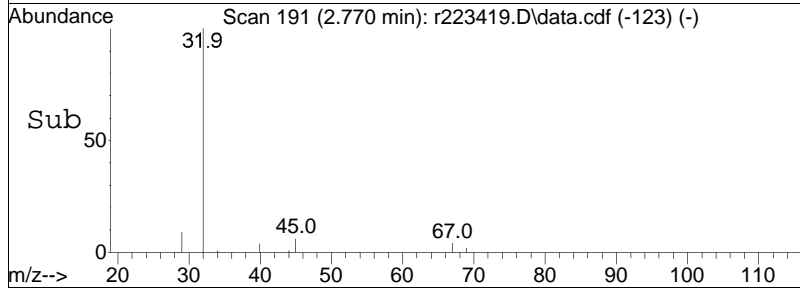
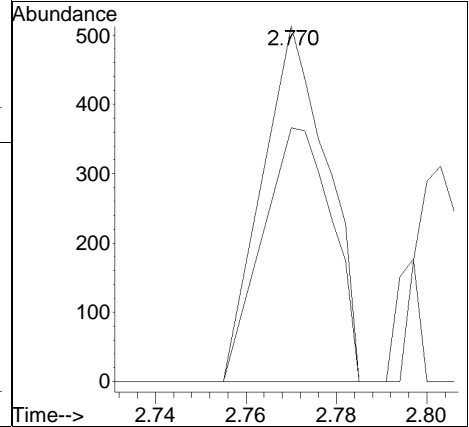
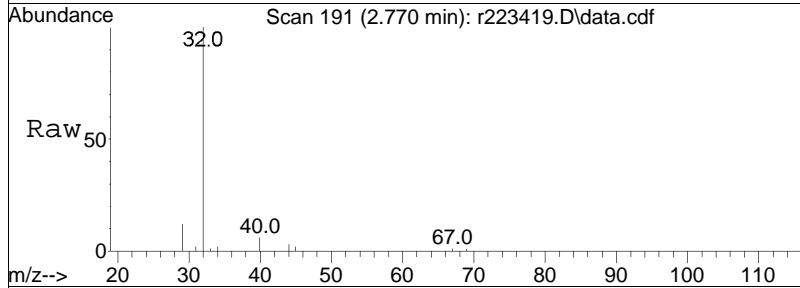
Quant Time: Mar 29 07:37:02 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

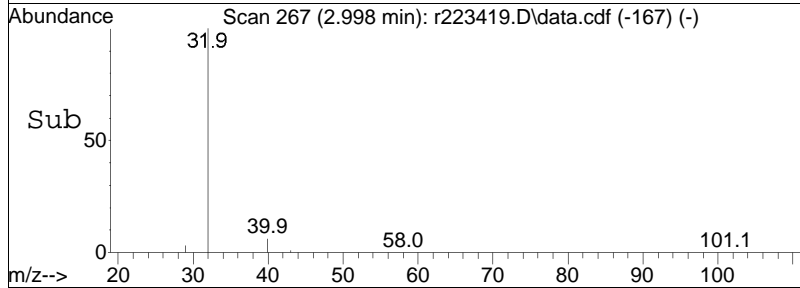
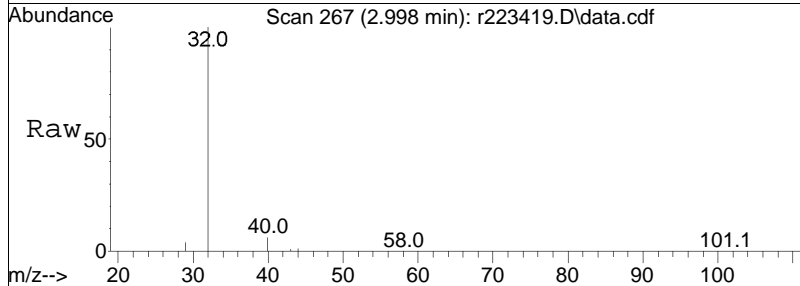
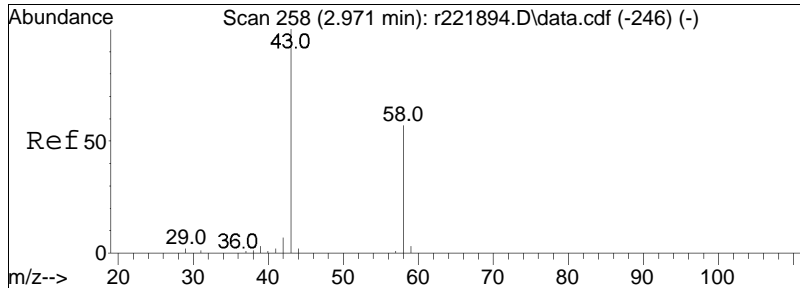




#15
 ethanol
 Concen: 0.15 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223419.D
 Acq: 28 Mar 2024 4:41 PM

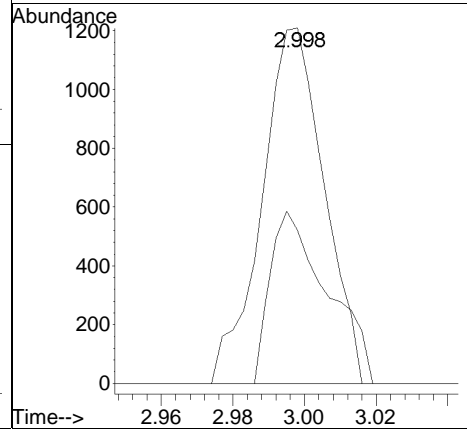
Tgt Ion:	31	45	Resp:	100	71.3	56.6	520	84.8
Ion Ratio	Lower	Upper						

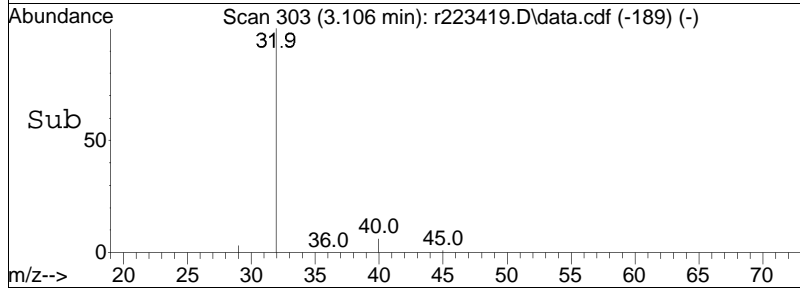
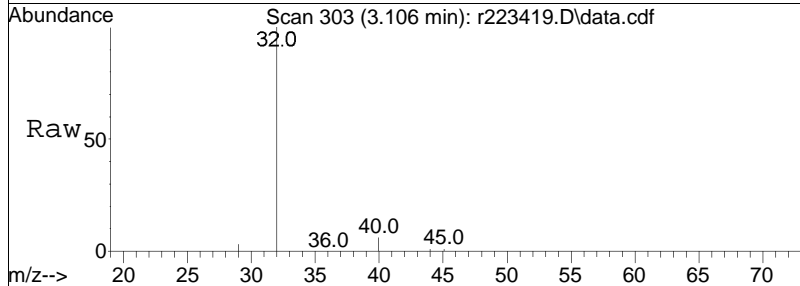
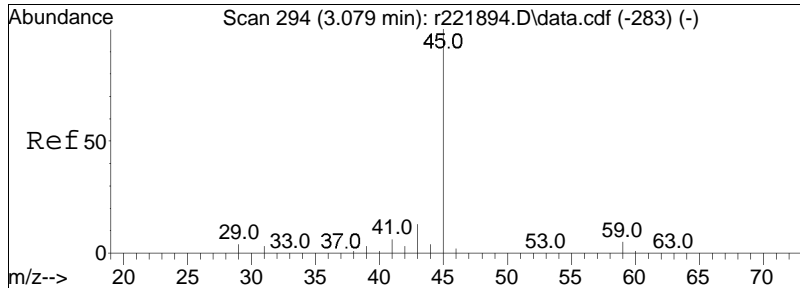




#19
 acetone
 Concen: 0.21 ppbV
 RT: 2.998 min Scan# 267
 Delta R.T. 0.027 min
 Lab File: r223419.D
 Acq: 28 Mar 2024 4:41 PM

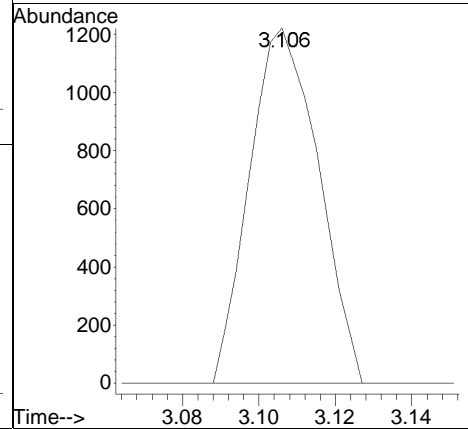
Tgt Ion:	43	Resp:	1461
Ion Ratio	Lower	Upper	
43	100		
58	43.1	45.5	68.3#
57	0.0	1.0	1.6#





#22
 isopropyl alcohol
 Concen: 0.13 ppbV
 RT: 3.106 min Scan# 303
 Delta R.T. 0.027 min
 Lab File: r223419.D
 Acq: 28 Mar 2024 4:41 PM

Tgt Ion:	45	59	Ratio	100	0.0	Resp:	1533	Lower	4.0	Upper	6.0#
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Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223419.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:4: 1 Instrument :
Sample : WG1902103-4,3,250,250 Quant Date : 3/29/2024 7:37 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436791.D
 Acq On : 29 Mar 2024 3:45 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-4,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 18:28:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.225	49	336851	10.000	ppbV	0.08
Standard Area =	358796		Recovery =		93.88%	
43) 1,4-difluorobenzene	11.453	114	708234	10.000	ppbV	0.08
Standard Area =	735074		Recovery =		96.35%	
67) chlorobenzene-D5	16.125	54	149629	10.000	ppbV	0.06
Standard Area =	162298		Recovery =		92.19%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.	d	
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.266		0	N.D.		
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.790		0	N.D.		
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	6.090	45	1637	0.046	ppbV #	86
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.804		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436791.D
 Acq On : 29 Mar 2024 3:45 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-4,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 18:28:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	11.040		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	0.000		0		N.D.	
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	0.000		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	0.000		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	0.000		0		N.D.	
83) m+p-xylene	0.000		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	0.000		0		N.D.	
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.	
87) o-xylene	0.000		0		N.D.	
96) 4-ethyl toluene	0.000		0		N.D.	
97) 1,3,5-trimethylbenzene	0.000		0		N.D.	
99) 1,2,4-trimethylbenzene	0.000		0		N.D.	
101) Benzyl Chloride	0.000		0		N.D.	
102) 1,3-dichlorobenzene	18.692		0		N.D.	
103) 1,4-dichlorobenzene	18.692		0		N.D.	
107) 1,2-dichlorobenzene	19.033		0		N.D.	
115) 1,2,4-trichlorobenzene	20.567		0		N.D.	
116) naphthalene	20.692		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436791.D
Acq On : 29 Mar 2024 3:45 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-4,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 18:28:54 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

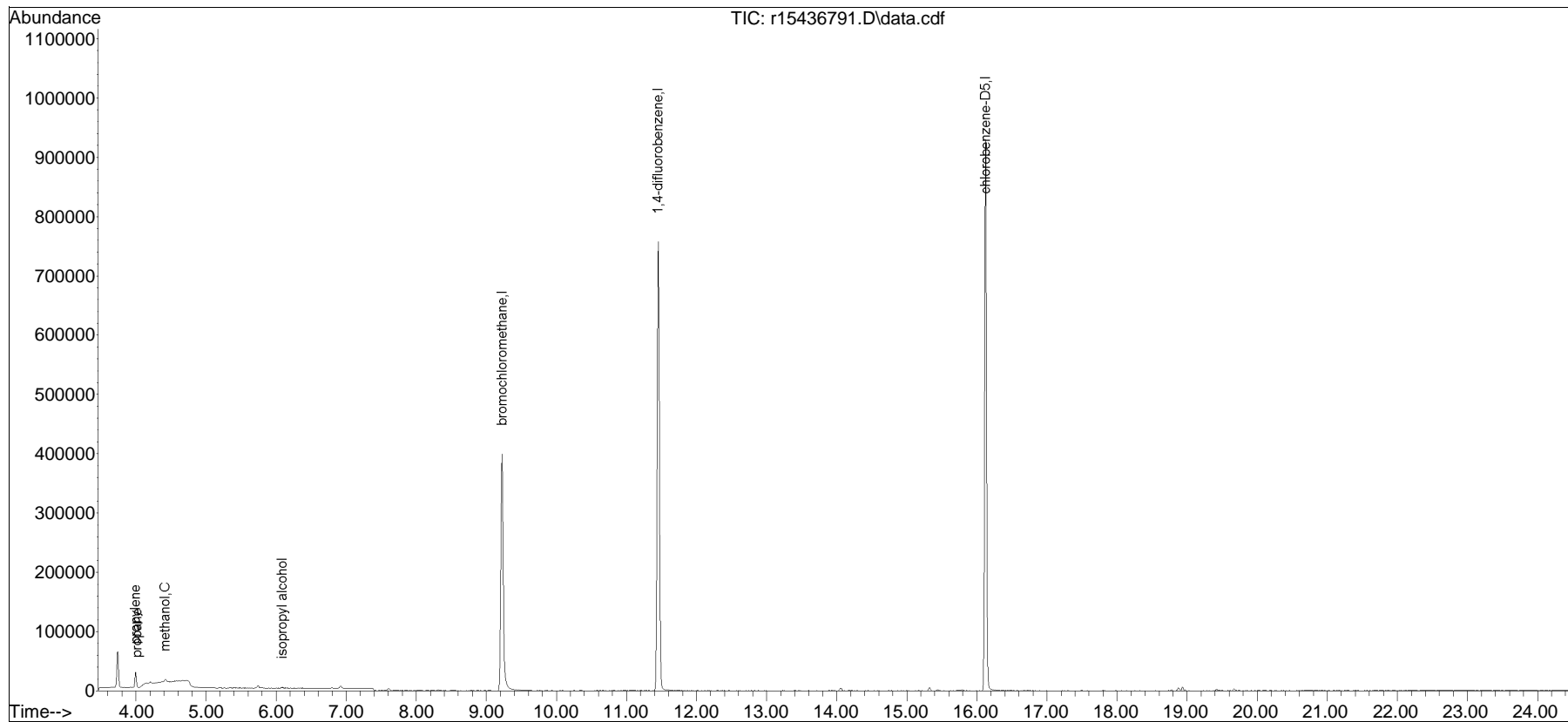
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : Default-LCS-AP2 - All compounds listed

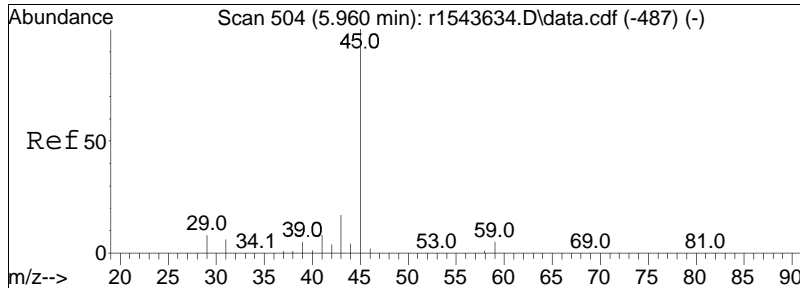
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed9T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436791.D
Acq On : 29 Mar 2024 3:45 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-4,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

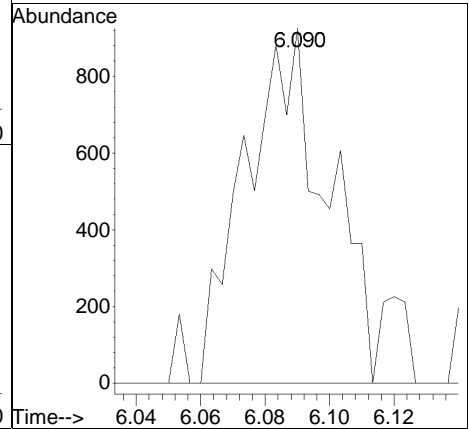
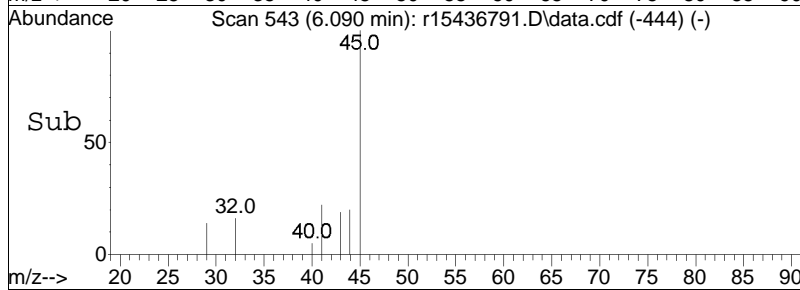
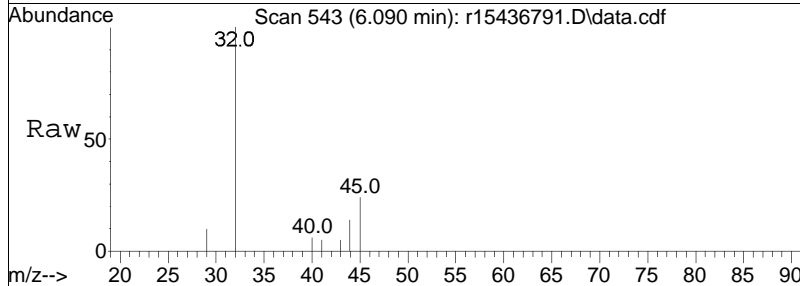
Quant Time: Mar 29 18:28:54 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration





#22
 isopropyl alcohol
 Concen: 0.05 ppbV
 RT: 6.090 min Scan# 543
 Delta R.T. 0.130 min
 Lab File: r15436791.D
 Acq: 29 Mar 2024 3:45 PM

Tgt Ion:	45	Resp:	1637
Ion Ratio	100	Lower	Upper
59	0.0	3.6	5.4#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436791.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:3: 5 Instrument :
Sample : WG1902670-4,3,250,250 Quant Date : 3/29/2024 6:28 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-3,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	115	0.01
2	chlorodifluoromethane	10.000	12.377	-23.8	131	0.02
3	propylene	10.000	11.149	-11.5	139	0.02
4	propane	10.000	10.140	-1.4	126	0.02
5	dichlorodifluoromethane	10.000	10.140	-1.4	123	0.02
6 C	chloromethane	10.000	10.520	-5.2	124	0.02
7	Freon-114	10.000	11.323	-13.2	127	0.02
8 C	methanol	50.000	48.813	2.4	112	0.02
9 C	vinyl chloride	10.000	10.634	-6.3	121	0.02
10 C	1,3-butadiene	10.000	11.675	-16.8	136	0.02
11	butane	10.000	11.149	-11.5	130	0.01
13 C	bromomethane	10.000	10.663	-6.6	122	0.02
14 C	chloroethane	10.000	13.269	-32.7#	153	0.02
15	ethanol	50.000	36.387	27.2	80	0.02
16	dichlorofluoromethane	10.000	5.674	43.3#	69	0.02
17 C	vinyl bromide	10.000	10.454	-4.5	121	0.01
18 C	acrolein	10.000	10.536	-5.4	120	0.02
19	acetone	50.000	59.896	-19.8	143	0.02
20 C	acetonitrile	10.000	10.937	-9.4	130	0.02
21	trichlorofluoromethane	10.000	10.924	-9.2	125	0.02
22	isopropyl alcohol	25.000	25.413	-1.7	122	0.01
23 C	acrylonitrile	10.000	11.073	-10.7	129	0.02
24	pentane	10.000	11.326	-13.3	132	0.02
25	ethyl ether	10.000	12.730	-27.3	149	0.01
26 C	1,1-dichloroethene	10.000	12.010	-20.1	133	0.01
27	tertiary butyl alcohol	10.000	11.062	-10.6	121	0.01
28 C	methylene chloride	10.000	9.690	3.1	112	0.02
29 C	3-chloropropene	10.000	10.469	-4.7	122	0.01
30 C	carbon disulfide	10.000	8.637	13.6	100	0.02
31	Freon 113	10.000	9.523	4.8	108	0.02
32	trans-1,2-dichloroethene	10.000	9.382	6.2	108	0.01
33 C	1,1-dichloroethane	10.000	9.503	5.0	107	0.01
34 C	MTBE	10.000	9.783	2.2	112	0.01
35 C	vinyl acetate	10.000	8.842	11.6	103	0.00
36 C	2-butanone	10.000	9.433	5.7	106	0.01
37	cis-1,2-dichloroethene	10.000	9.746	2.5	110	0.01
38	Ethyl Acetate	10.000	10.146	-1.5	113	0.01
39 C	chloroform	10.000	9.956	0.4	111	0.01
40	Tetrahydrofuran	10.000	9.723	2.8	112	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-3,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	10.157	-1.6	111	0.01
42 C	1,2-dichloroethane	10.000	10.594	-5.9	122	0.00
43 I	1,4-difluorobenzene	10.000	10.000	0.0	94	0.00
44 C	hexane	10.000	12.486	-24.9	114	0.01
45	diisopropyl ether	10.000	10.969	-9.7	98	0.01
46	tert-butyl ethyl ether	10.000	11.790	-17.9	105	0.01
48 C	1,1,1-trichloroethane	10.000	12.402	-24.0	111	0.01
49	1,1-dichloropropene	10.000	11.971	-19.7	108	0.00
50 C	benzene	10.000	10.752	-7.5	98	0.01
52 C	carbon tetrachloride	10.000	12.451	-24.5	110	0.00
53	cyclohexane	10.000	11.822	-18.2	112	0.01
54	tert-amyl methyl ether	10.000	11.360	-13.6	103	0.00
55	dibromomethane	10.000	11.310	-13.1	101	0.00
56 C	1,2-dichloropropane	10.000	11.828	-18.3	105	0.01
57	bromodichloromethane	10.000	13.050	-30.5#	117	0.00
58 C	1,4-dioxane	10.000	11.323	-13.2	103	0.00
59 C	trichloroethene	10.000	11.069	-10.7	97	0.00
60 C	2,2,4-trimethylpentane	10.000	12.679	-26.8	115	0.00
61	methyl methacrylate	10.000	14.464	-44.6#	127	0.00
62	heptane	10.000	12.931	-29.3	118	0.01
63 C	cis-1,3-dichloropropene	10.000	11.804	-18.0	104	0.00
64 C	4-methyl-2-pentanone	10.000	13.793	-37.9#	122	0.01
65	trans-1,3-dichloropropene	10.000	11.604	-16.0	105	0.00
66 C	1,1,2-trichloroethane	10.000	11.093	-10.9	100	0.00
67 I	chlorobenzene-D5	10.000	10.000	0.0	123	0.00
68 C	toluene	10.000	8.370	16.3	100	0.00
71	1,3-dichloropropane	10.000	8.607	13.9	103	0.00
72	2-hexanone	10.000	9.559	4.4	116	0.00
74	dibromochloromethane	10.000	9.035	9.6	109	0.00
75 C	1,2-dibromoethane	10.000	8.119	18.8	98	0.00
76	butyl acetate	10.000	8.233	17.7	98	0.00
77	octane	10.000	8.558	14.4	101	0.00
78 C	tetrachloroethene	10.000	7.848	21.5	92	0.00
79	1,1,1,2-tetrachloroethane	10.000	8.490	15.1	100	0.00
80 C	chlorobenzene	10.000	8.334	16.7	98	0.00
81 C	ethylbenzene	10.000	8.470	15.3	100	0.00
83 C	m+p-xylene	20.000	18.102	9.5	105	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-3,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	8.633	13.7	102	0.00
85 C	styrene	10.000	8.076	19.2	94	0.00
86 C	1,1,2,2-tetrachloroethane	10.000	9.003	10.0	104	0.00
87 C	o-xylene	10.000	9.311	6.9	107	0.00
88	1,2,3-trichloropropane	10.000	8.712	12.9	104	0.00
89	nonane	10.000	9.572	4.3	112	0.00
91 C	isopropylbenzene	10.000	8.780	12.2	102	0.00
92	bromobenzene	10.000	8.914	10.9	105	0.00
93	2-chlorotoluene	10.000	8.617	13.8	100	0.00
94	n-propylbenzene	10.000	8.580	14.2	97	0.00
95	4-chlorotoluene	10.000	7.619	23.8	89	0.00
96	4-ethyl toluene	10.000	8.539	14.6	100	0.00
97	1,3,5-trimethylbenzene	10.000	9.093	9.1	105	0.00
98	tert-butylbenzene	10.000	9.204	8.0	105	0.00
99	1,2,4-trimethylbenzene	10.000	9.210	7.9	106	0.00
100	decane	10.000	9.290	7.1	107	0.00
101 C	Benzyl Chloride	10.000	9.647	3.5	106	0.00
102	1,3-dichlorobenzene	10.000	7.872	21.3	89	0.00
103 C	1,4-dichlorobenzene	10.000	8.162	18.4	91	0.00
104	sec-butylbenzene	10.000	8.905	11.0	102	0.00
106	p-isopropyltoluene	10.000	8.779	12.2	100	0.00
107	1,2-dichlorobenzene	10.000	7.876	21.2	88	0.00
108	n-butylbenzene	10.000	9.217	7.8	105	0.00
111 C	1,2-dibromo-3-chloropropane	10.000	9.626	3.7	112	0.00
112	undecane	10.000	9.402	6.0	104	0.00
114	dodecane	10.000	9.098	9.0	96	0.00
115 C	1,2,4-trichlorobenzene	10.000	6.996	30.0#	72	0.00
116	naphthalene	10.000	8.803	12.0	93	0.00
117	1,2,3-trichlorobenzene	10.000	7.435	25.7	78	0.00
119 C	hexachlorobutadiene	10.000	7.557	24.4	84	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-3,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	222450	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	100.00%		
43) 1,4-difluorobenzene	5.383	114	633782	10.000	ppbV	0.00
Standard Area =	633782		Recovery =	100.00%		
67) chlorobenzene-D5	7.353	54	85965	10.000	ppbV	0.00
Standard Area =	85965		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.225	85	181666	10.140	ppbV	100
6) chloromethane	2.330	50	102262	10.520	ppbV	99
7) Freon-114	2.390	85	293825	11.323	ppbV	93
9) vinyl chloride	2.455	62	132016	10.634	ppbV	100
10) 1,3-butadiene	2.525	54	107061	11.675	ppbV	95
13) bromomethane	2.650	94	93671	10.663	ppbV	99
14) chloroethane	2.725	64	63245	13.269	ppbV	99
15) ethanol	2.770	31	130009	36.387	ppbV	96
17) vinyl bromide	2.881	106	83513	10.454	ppbV	97
19) acetone	2.986	43	428665	59.896	ppbV	97
21) trichlorofluoromethane	3.073	101	104397	10.924	ppbV	100
22) isopropyl alcohol	3.094	45	301542	25.413	ppbV	100
26) 1,1-dichloroethene	3.370	61	220838	12.010	ppbV	91
27) tertiary butyl alcohol	3.385	59	295672	11.062	ppbV	95
28) methylene chloride	3.430	49	170881	9.690	ppbV	91
29) 3-chloropropene	3.485	41	250091	10.469	ppbV	94
30) carbon disulfide	3.575	76	422251	8.637	ppbV	96
31) Freon 113	3.555	101	255230	9.523	ppbV	93
32) trans-1,2-dichloroethene	3.883	61	213384	9.382	ppbV	93
33) 1,1-dichloroethane	3.977	63	275825	9.503	ppbV	100
34) MTBE	4.003	73	412478	9.783	ppbV	98
36) 2-butanone	4.163	43	340696	9.433	ppbV	96
37) cis-1,2-dichloroethene	4.383	61	201556	9.746	ppbV	90
38) Ethyl Acetate	4.483	61	57021	10.146	ppbV	91
39) chloroform	4.523	83	253913	9.956	ppbV	98
40) Tetrahydrofuran	4.710	42	223504	9.723	ppbV	96
42) 1,2-dichloroethane	4.877	62	153624	10.594	ppbV	96
44) hexane	4.483	57	279855	12.486	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223417.D
 Acq On : 28 Mar 2024 1:50 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-3,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	5.003	97	217480	12.402	ppbV	95
50) benzene	5.223	78	508303	10.752	ppbV	96
52) carbon tetrachloride	5.290	117	195768	12.451	ppbV	100
53) cyclohexane	5.357	56	303360	11.822	ppbV	91
56) 1,2-dichloropropane	5.610	63	182547	11.828	ppbV #	97
57) bromodichloromethane	5.697	83	268060	13.050	ppbV	99
58) 1,4-dioxane	5.710	88	116827	11.323	ppbV	93
59) trichloroethene	5.717	130	206840	11.069	ppbV	98
60) 2,2,4-trimethylpentane	5.737	57	906770	12.679	ppbV	96
62) heptane	5.857	43	365533	12.931	ppbV	95
63) cis-1,3-dichloropropene	6.113	75	266042	11.804	ppbV	94
64) 4-methyl-2-pentanone	6.127	43	433534	13.793	ppbV	94
65) trans-1,3-dichloropropene	6.347	75	214645	11.604	ppbV	95
66) 1,1,2-trichloroethane	6.427	97	185352	11.093	ppbV	94
68) toluene	6.553	91	600170	8.370	ppbV	100
72) 2-hexanone	6.667	43	402095	9.559	ppbV	95
74) dibromochloromethane	6.747	129	257604	9.035	ppbV	99
75) 1,2-dibromoethane	6.860	107	256430	8.119	ppbV	99
78) tetrachloroethene	7.067	166	218344	7.848	ppbV #	91
80) chlorobenzene	7.373	112	462208	8.334	ppbV	94
81) ethylbenzene	7.540	91	734630	8.470	ppbV	97
83) m+p-xylene	7.620	91	1222434	18.102	ppbV	96
84) bromoform	7.660	173	201793	8.633	ppbV	100
85) styrene	7.787	104	488808	8.076	ppbV	94
86) 1,1,2,2-tetrachloroethane	7.833	83	407614	9.003	ppbV	98
87) o-xylene	7.833	91	613940	9.311	ppbV	97
96) 4-ethyl toluene	8.433	105	831931	8.539	ppbV	99
97) 1,3,5-trimethylbenzene	8.473	105	725172	9.093	ppbV	96
99) 1,2,4-trimethylbenzene	8.683	105	701934	9.210	ppbV	93
101) Benzyl Chloride	8.750	91	441392	9.647	ppbV	96
102) 1,3-dichlorobenzene	8.763	146	440569	7.872	ppbV	95
103) 1,4-dichlorobenzene	8.797	146	438125	8.162	ppbV	95
107) 1,2-dichlorobenzene	8.970	146	414242	7.876	ppbV	95
115) 1,2,4-trichlorobenzene	9.857	180	289118	6.996	ppbV	94
116) naphthalene	9.918	128	882413	8.803	ppbV	98
119) hexachlorobutadiene	10.098	225	239683	7.557	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223417.D
Acq On : 28 Mar 2024 1:50 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-3,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 14:18:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

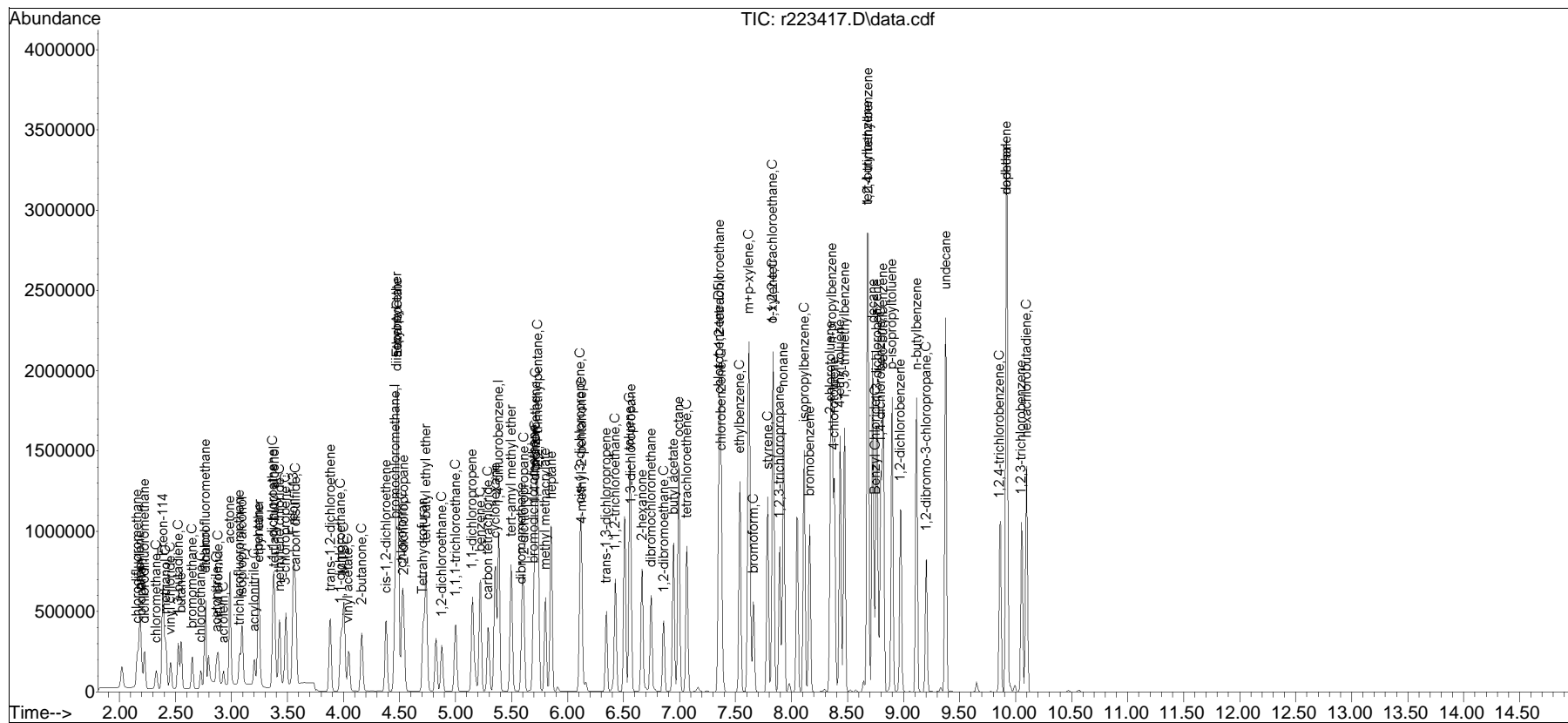
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
Sub List : Default-LCS-AP2 - All compounds listed

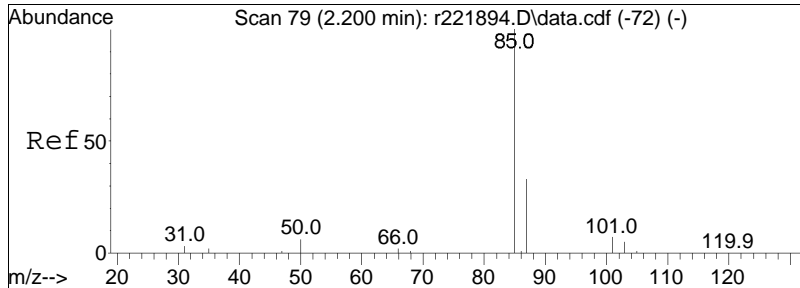
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed8T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223417.D
Acq On : 28 Mar 2024 1:50 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-3,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

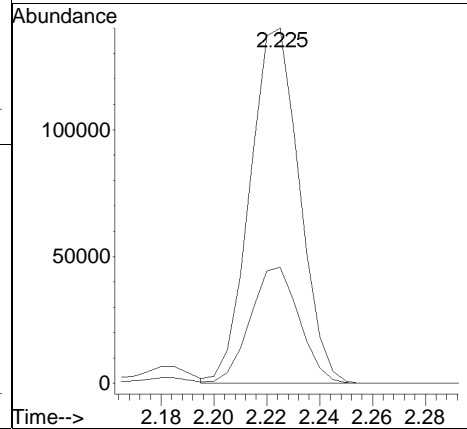
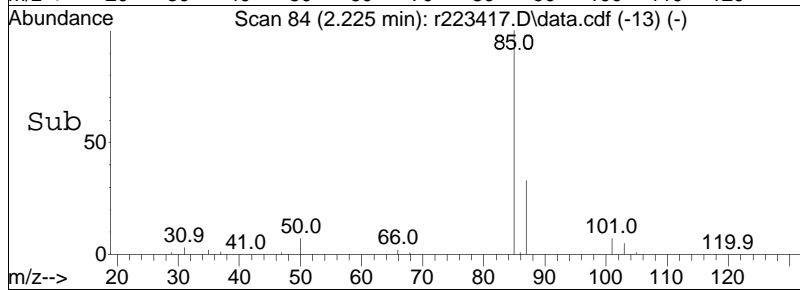
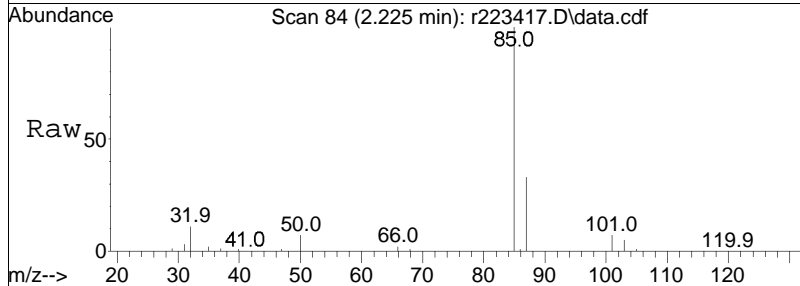
Quant Time: Mar 28 14:18:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

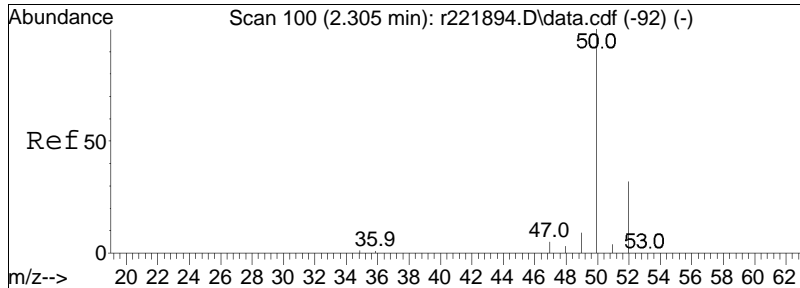




#5
 dichlorodifluoromethane
 Concen: 10.14 ppbV
 RT: 2.225 min Scan# 84
 Delta R.T. 0.025 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

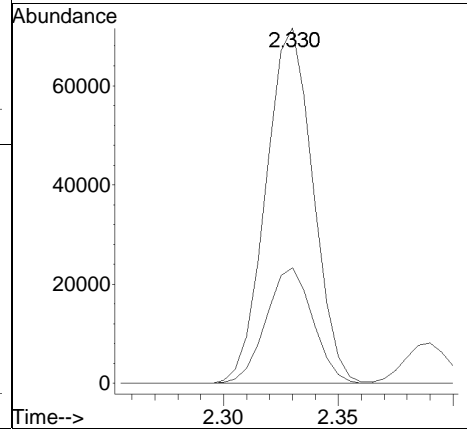
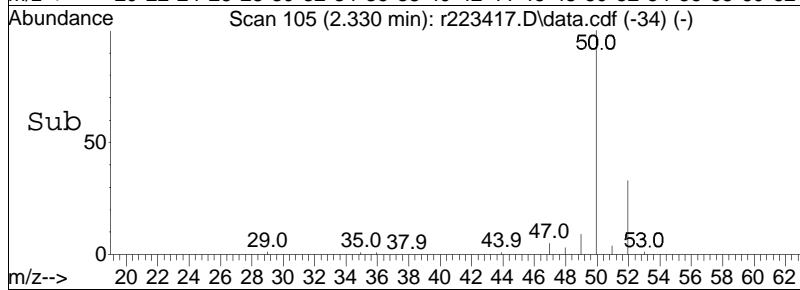
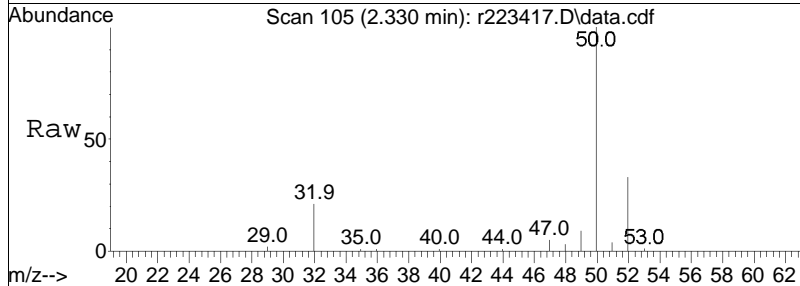
Tgt Ion: 85 Resp: 181666
 Ion Ratio Lower Upper
 85 100
 87 32.7 26.3 39.5

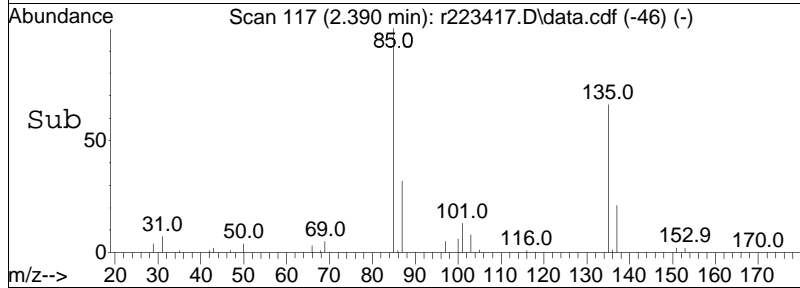
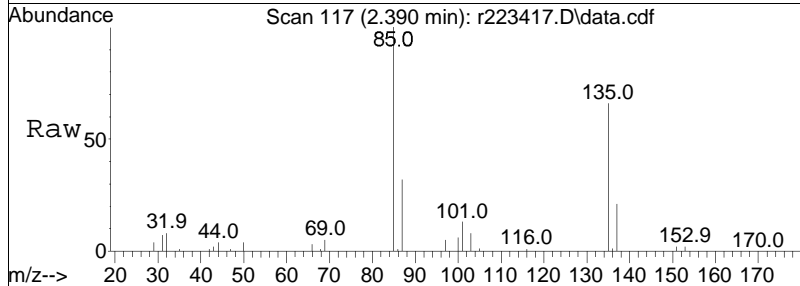
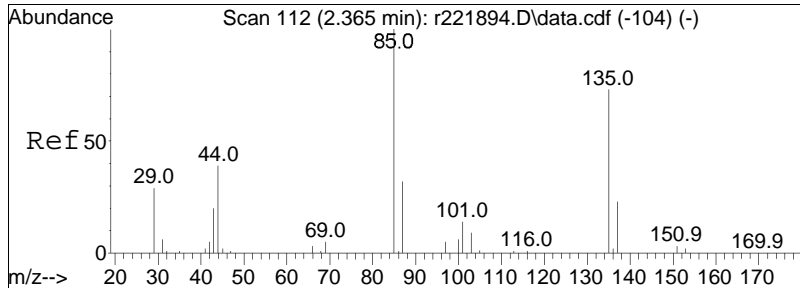




#6
 chloromethane
 Concen: 10.52 ppbV
 RT: 2.330 min Scan# 105
 Delta R.T. 0.025 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

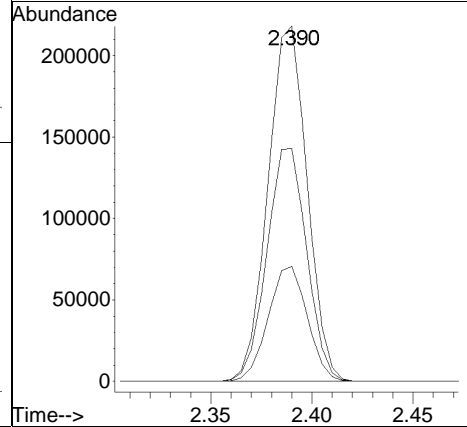
Tgt Ion: 50 Resp: 102262
 Ion Ratio Lower Upper
 50 100
 52 32.6 25.5 38.3

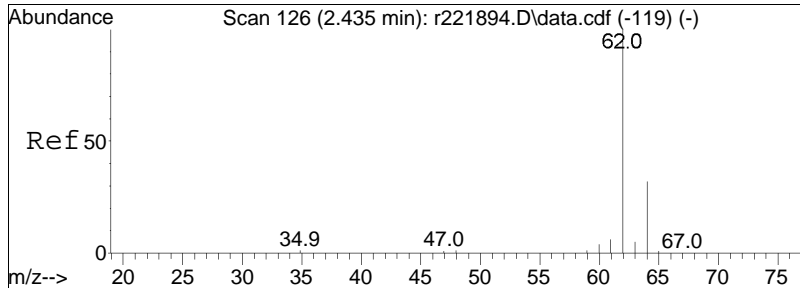




#7
 Freon-114
 Concen: 11.32 ppbV
 RT: 2.390 min Scan# 117
 Delta R.T. 0.025 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

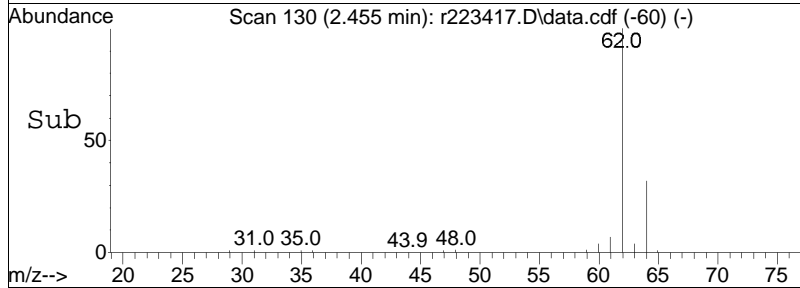
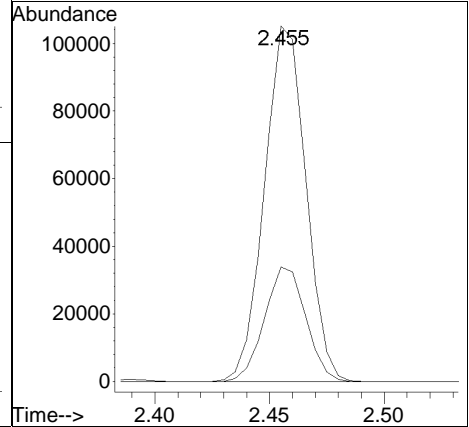
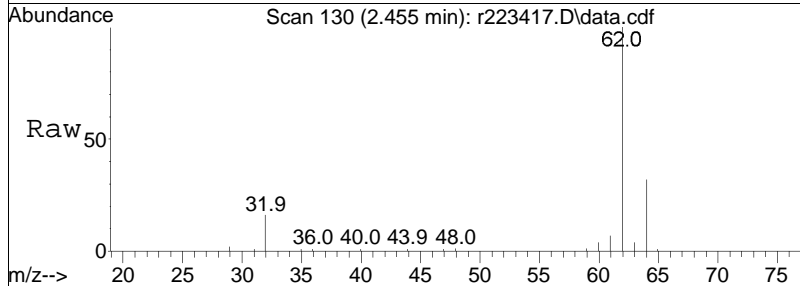
Tgt Ion:	85	Resp:	293825
Ion Ratio	Lower	Upper	
85	100		
87	32.4	25.8	38.6
135	65.5	58.7	88.1

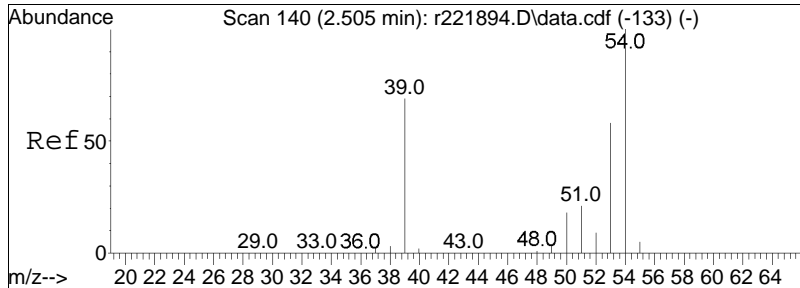




#9
 vinyl chloride
 Concen: 10.63 ppbV
 RT: 2.455 min Scan# 130
 Delta R.T. 0.020 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

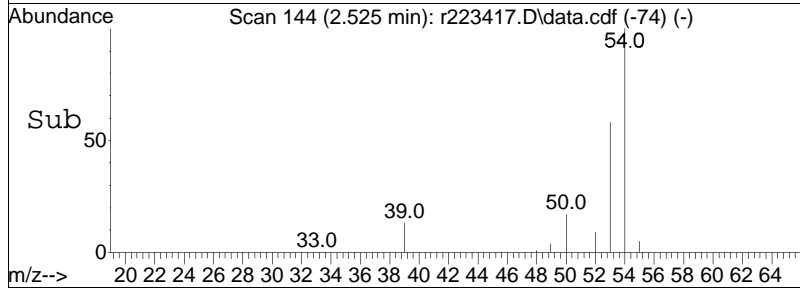
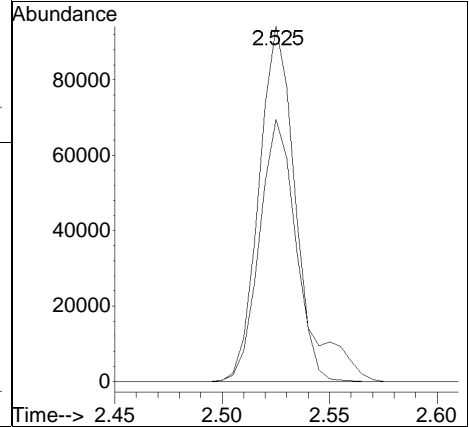
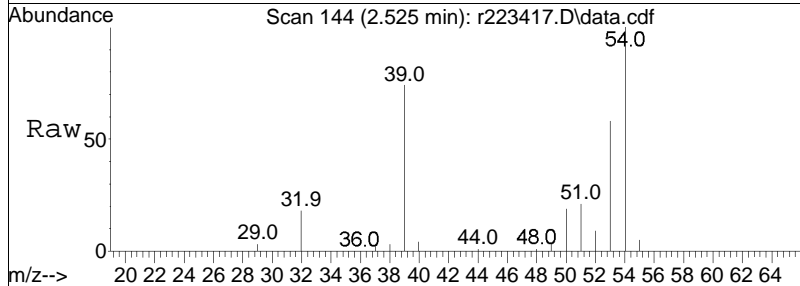
Tgt Ion:	Resp:	Lower	Upper
62	100		
64	32.2	25.7	38.5

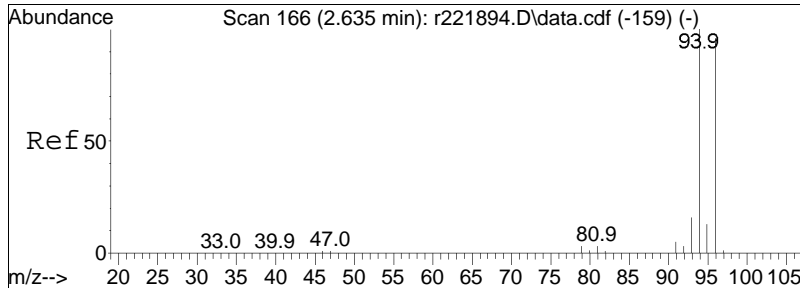




#10
 1,3-butadiene
 Concen: 11.68 ppbV
 RT: 2.525 min Scan# 144
 Delta R.T. 0.020 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

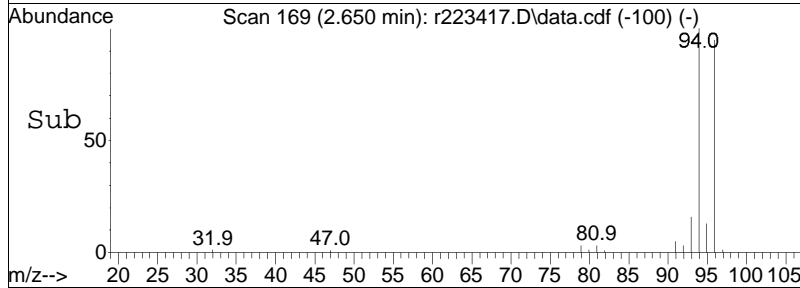
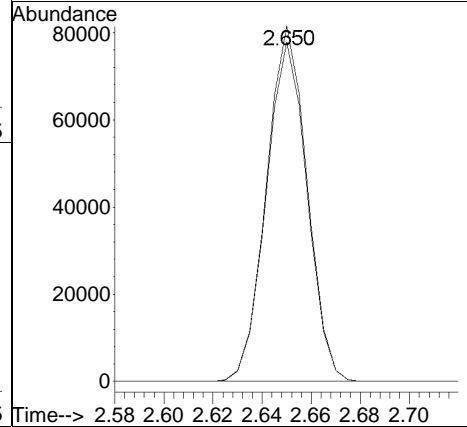
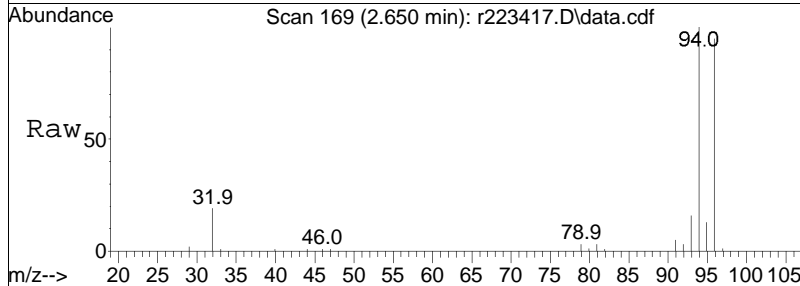
Tgt Ion	Resp	Lower	Upper
54	100		
39	73.8	55.4	83.2

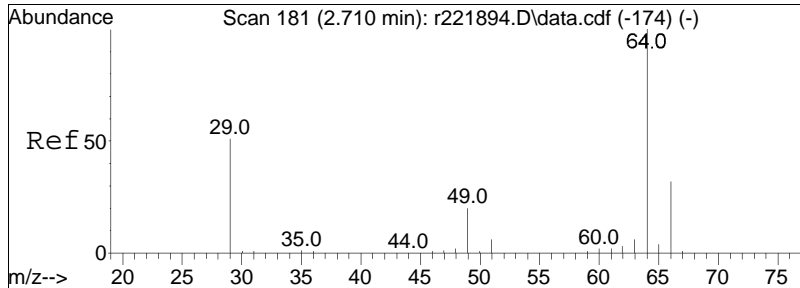




#13
 bromomethane
 Concen: 10.66 ppbV
 RT: 2.650 min Scan# 169
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

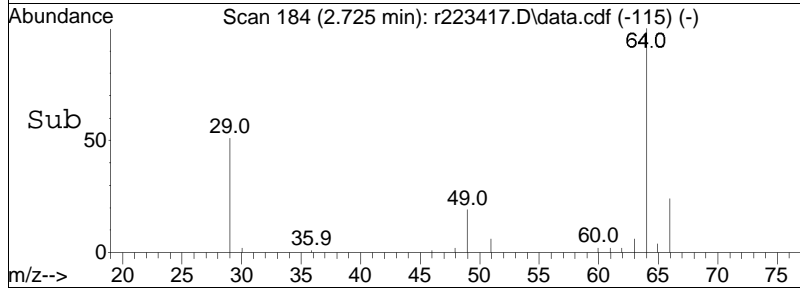
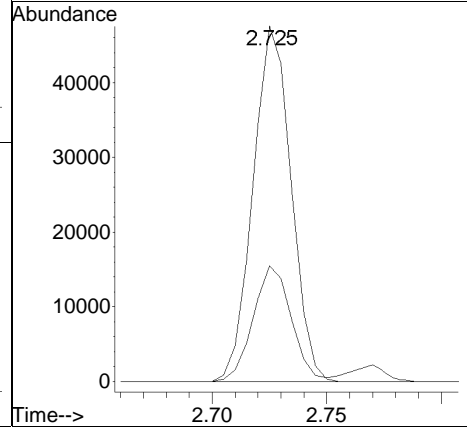
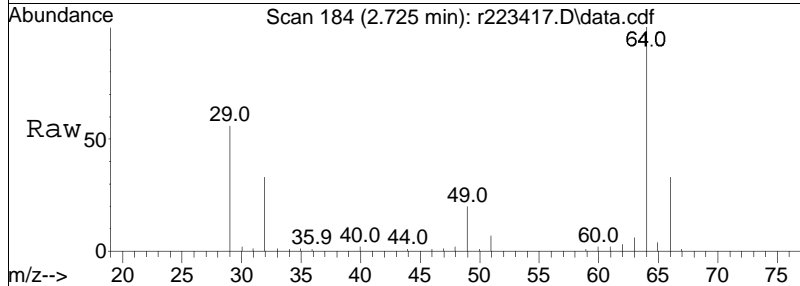
Tgt Ion: 94 Resp: 93671
 Ion Ratio Lower Upper
 94 100
 96 95.5 77.1 115.7

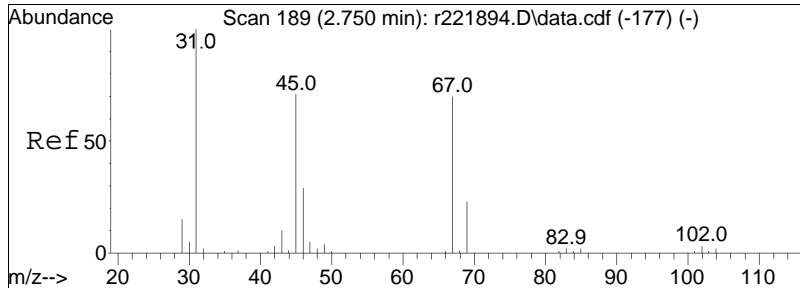




#14
 chloroethane
 Concen: 13.27 ppbV
 RT: 2.725 min Scan# 184
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

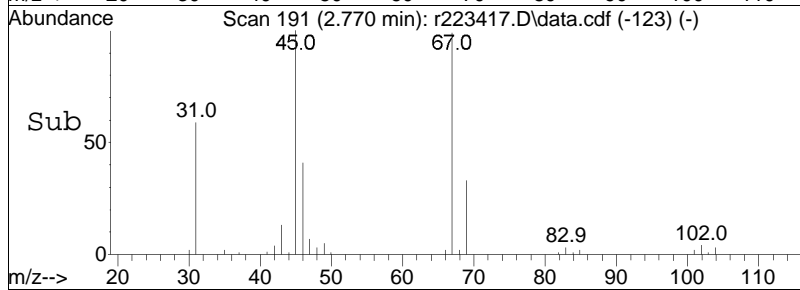
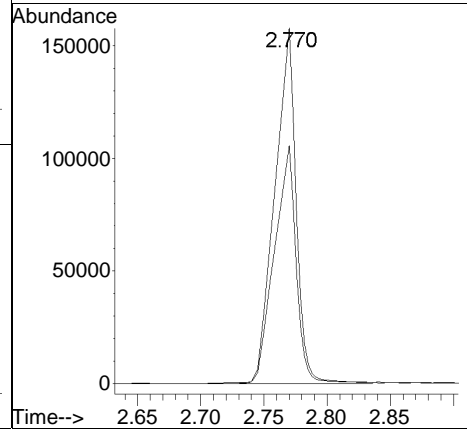
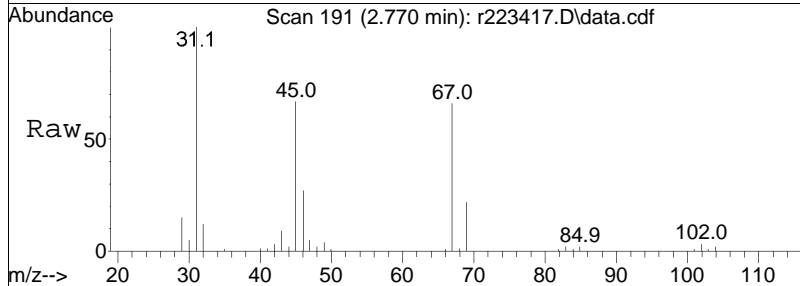
Tgt Ion: 64 Resp: 63245
 Ion Ratio Lower Upper
 64 100
 66 32.5 25.4 38.0

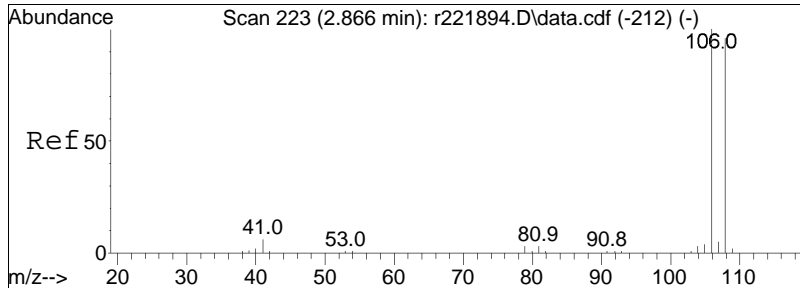




#15
 ethanol
 Concen: 36.39 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

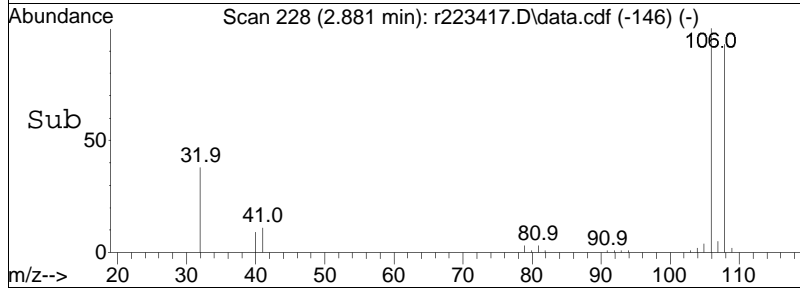
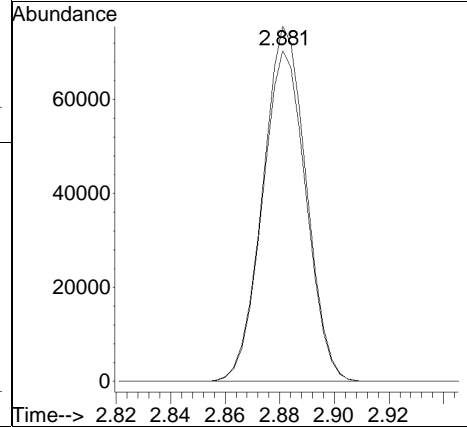
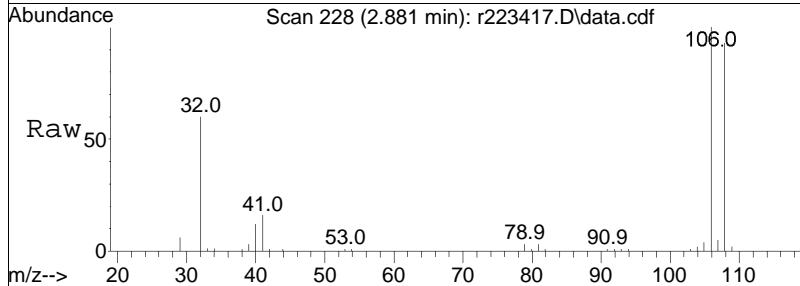
Tgt Ion:	31	Resp:	130009
Ion Ratio	Lower	Upper	
31	100		
45	67.0	56.6	84.8

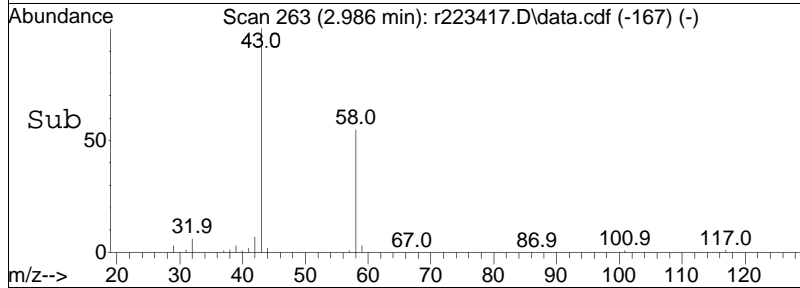
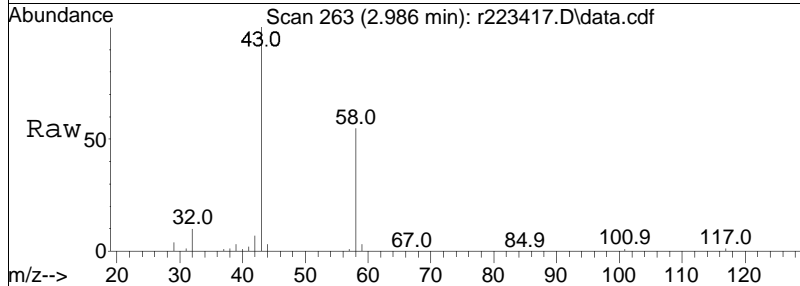
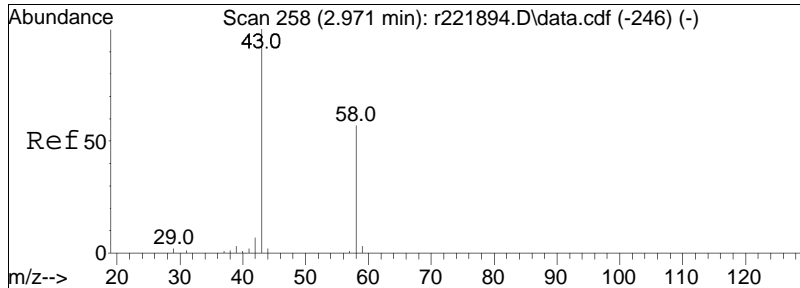




#17
 vinyl bromide
 Concen: 10.45 ppbV
 RT: 2.881 min Scan# 228
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

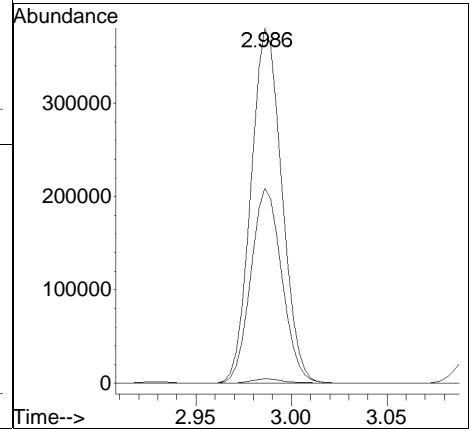
Tgt Ion: 106 Resp: 83513
 Ion Ratio Lower Upper
 106 100
 108 93.1 76.7 115.1

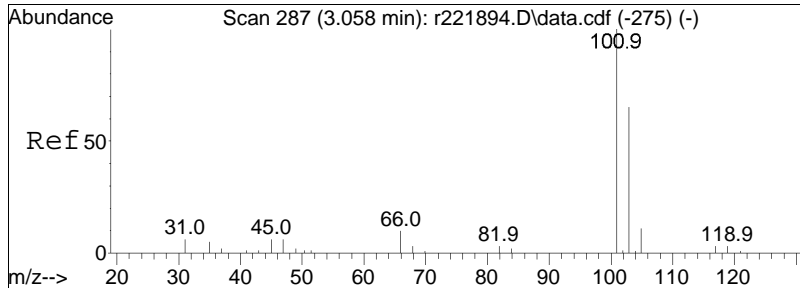




#19
 acetone
 Concen: 59.90 ppbV
 RT: 2.986 min Scan# 263
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

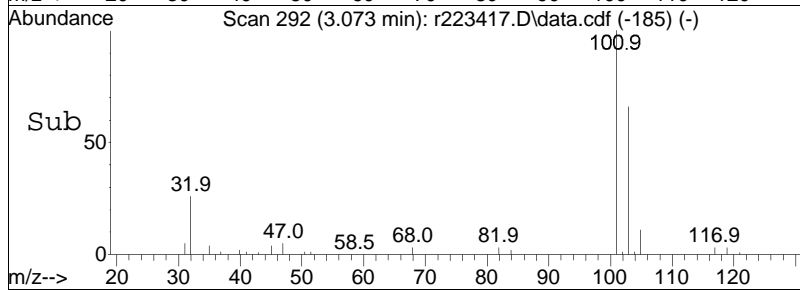
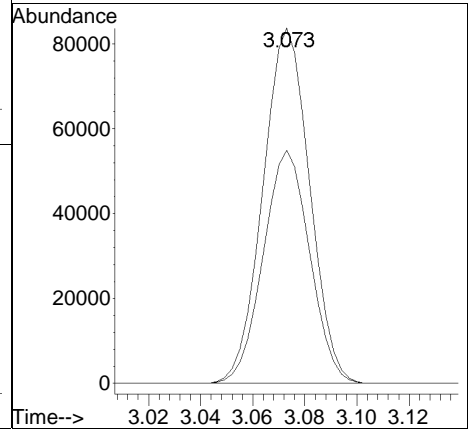
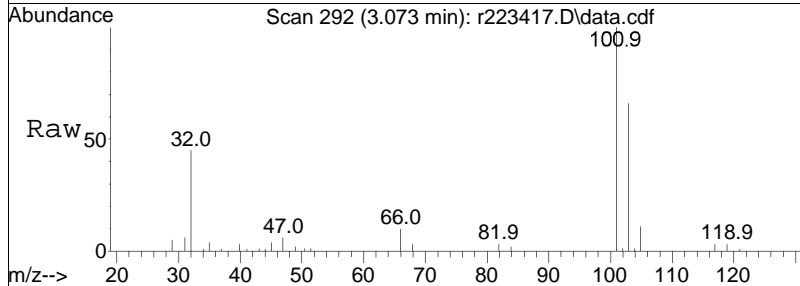
Tgt Ion	Resp	Lower	Upper
43	428665		
43	100		
58	54.9	45.5	68.3
57	1.3	1.0	1.6

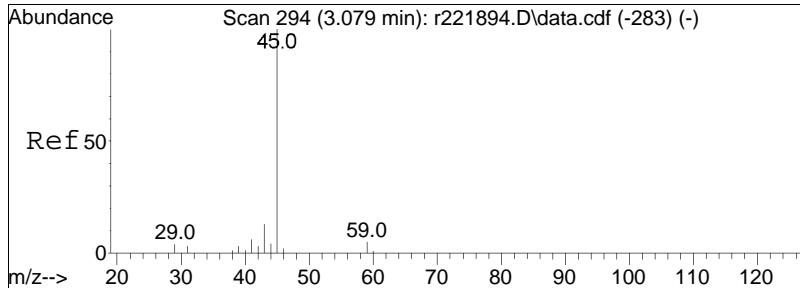




#21
 trichlorofluoromethane
 Concen: 10.92 ppbV
 RT: 3.073 min Scan# 292
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

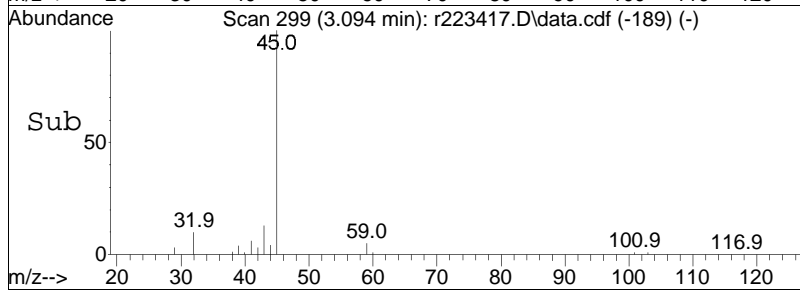
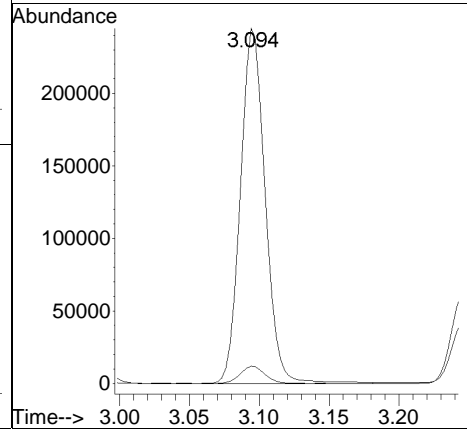
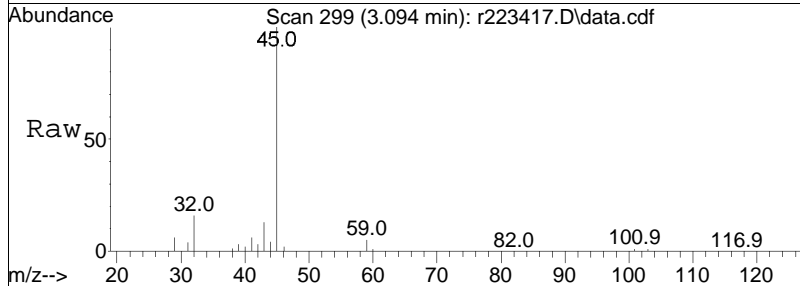
Tgt Ion: 101 Resp: 104397
 Ion Ratio Lower Upper
 101 100
 103 65.6 52.2 78.4

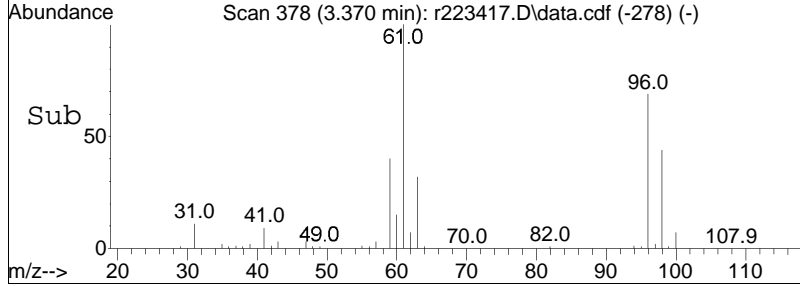
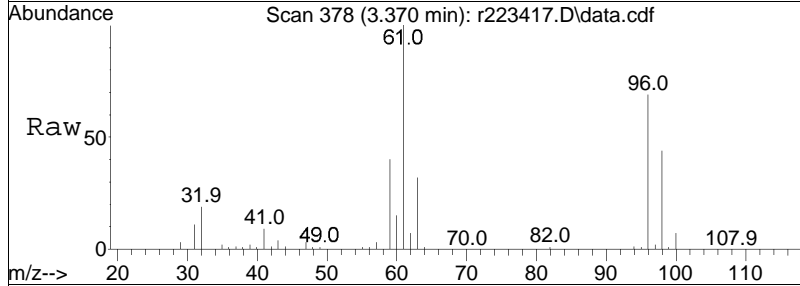
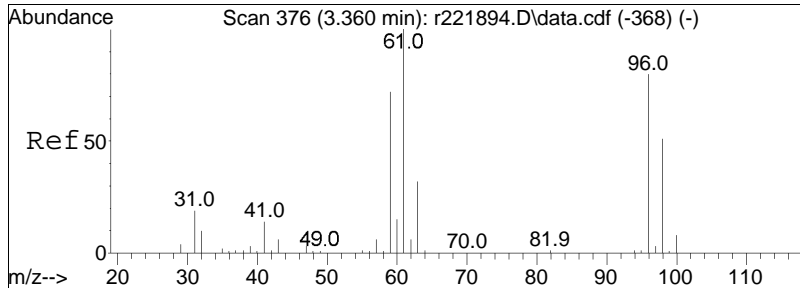




#22
 isopropyl alcohol
 Concen: 25.41 ppbV
 RT: 3.094 min Scan# 299
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

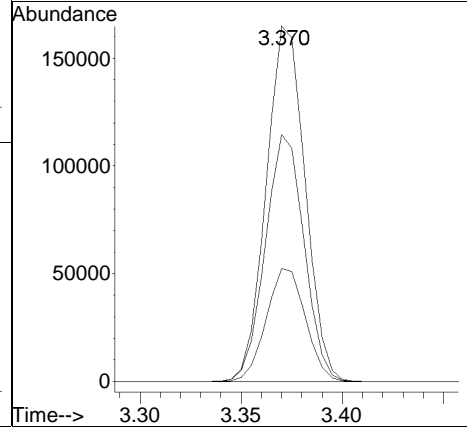
Tgt Ion	Resp	Lower	Upper
45	100		
59	4.8	4.0	6.0

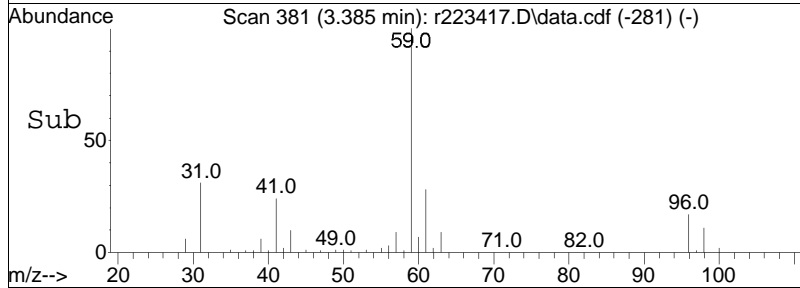
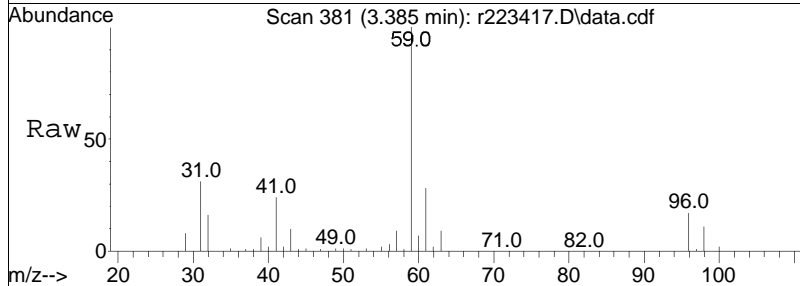
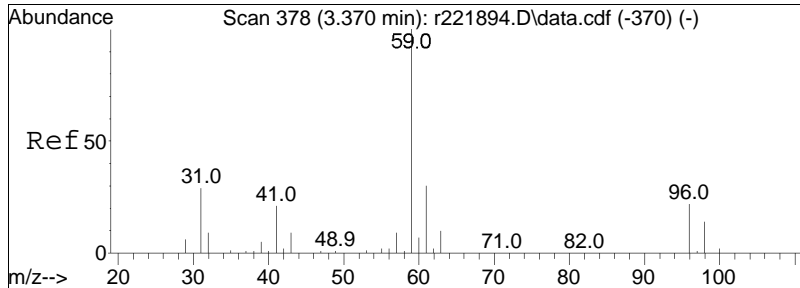




#26
 1,1-dichloroethene
 Concen: 12.01 ppbV
 RT: 3.370 min Scan# 378
 Delta R.T. 0.010 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

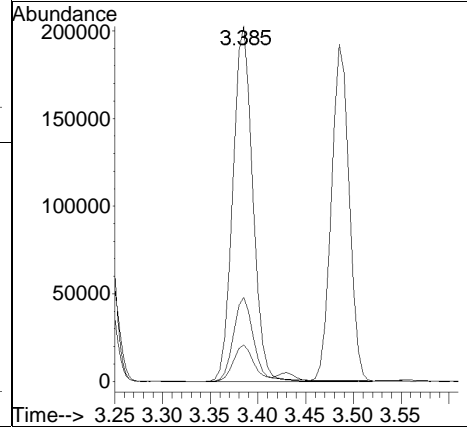
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	69.5	64.1	96.1
63	31.8	25.8	38.8

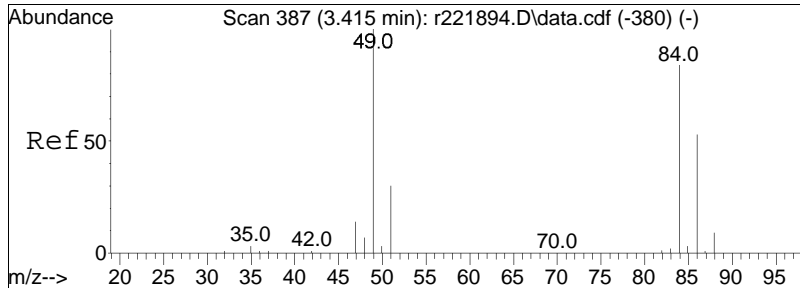




#27
 tertiary butyl alcohol
 Concen: 11.06 ppbV
 RT: 3.385 min Scan# 381
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

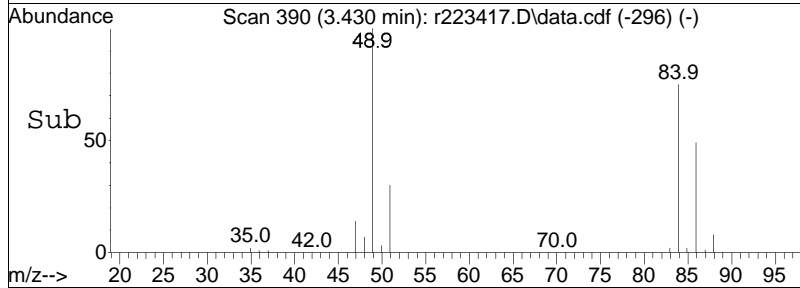
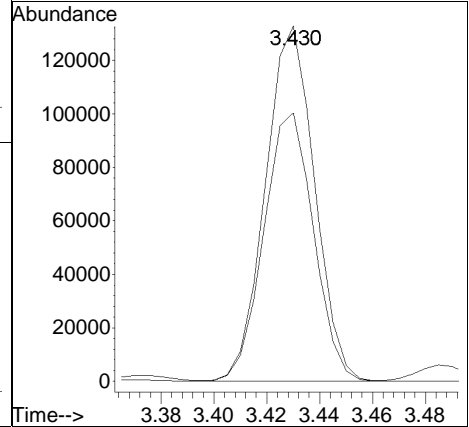
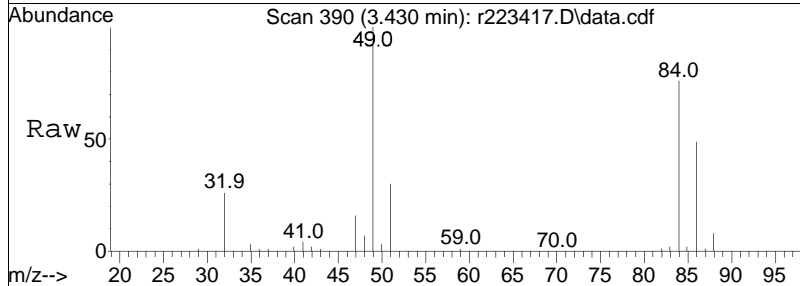
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
59	100		
41	23.7	16.9	25.3
43	10.3	7.5	11.3

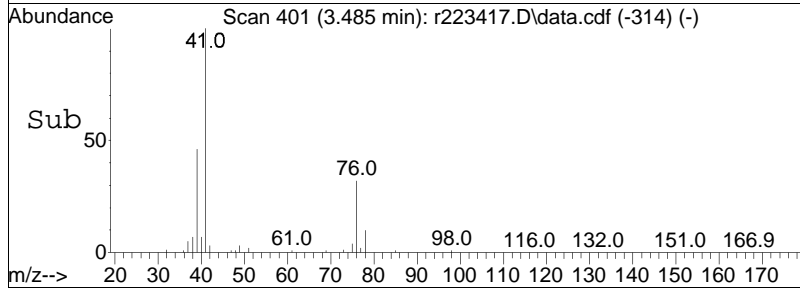
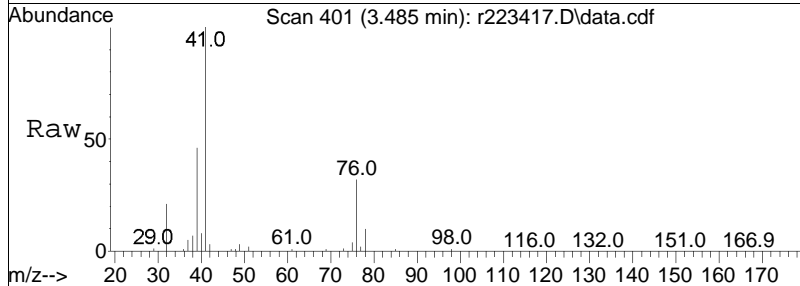
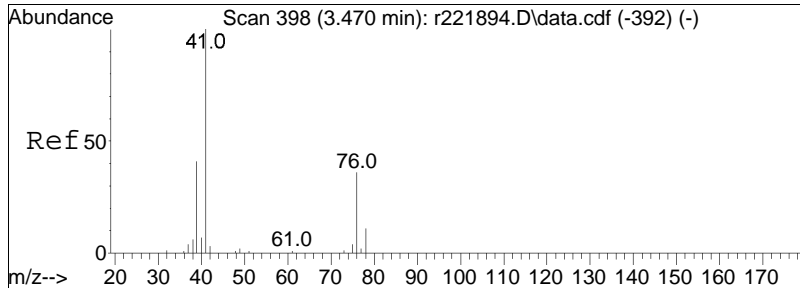




#28
 methylene chloride
 Concen: 9.69 ppbV
 RT: 3.430 min Scan# 390
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

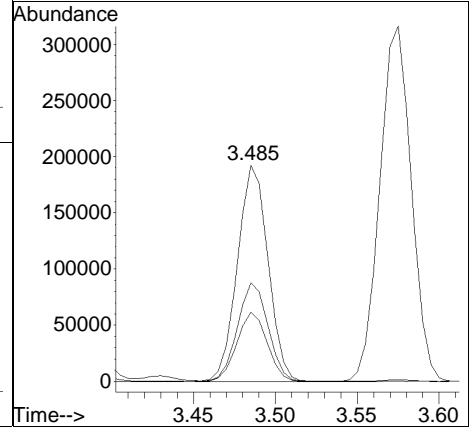
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	75.6	67.2	100.8

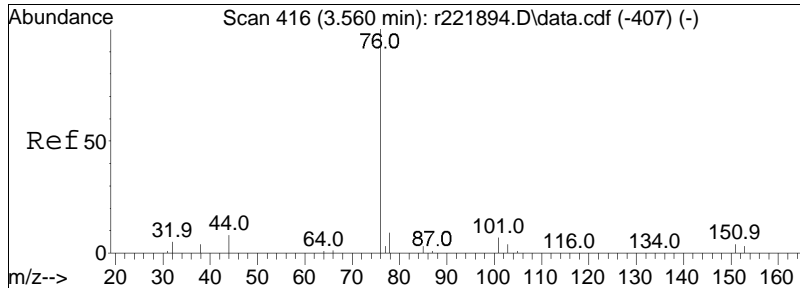




#29
 3-chloropropene
 Concen: 10.47 ppbV
 RT: 3.485 min Scan# 401
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

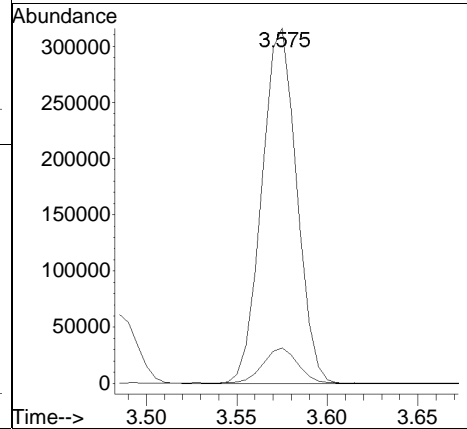
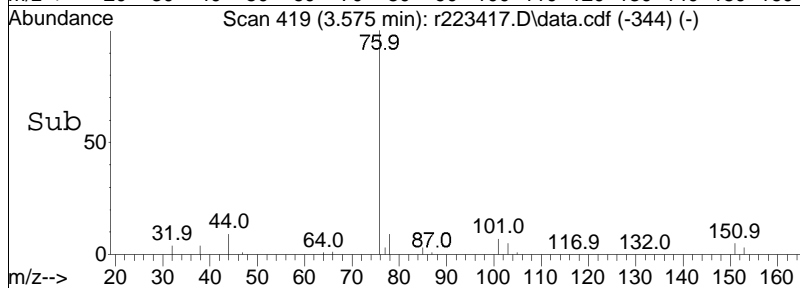
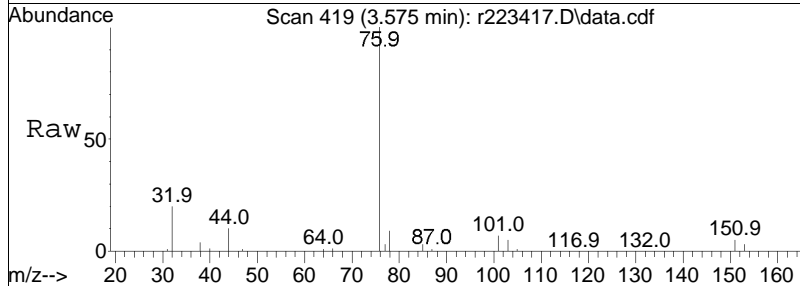
Tgt Ion:	41	Resp:	250091
Ion Ratio	Lower	Upper	
41	100		
39	45.6	33.0	49.6
76	32.0	28.3	42.5

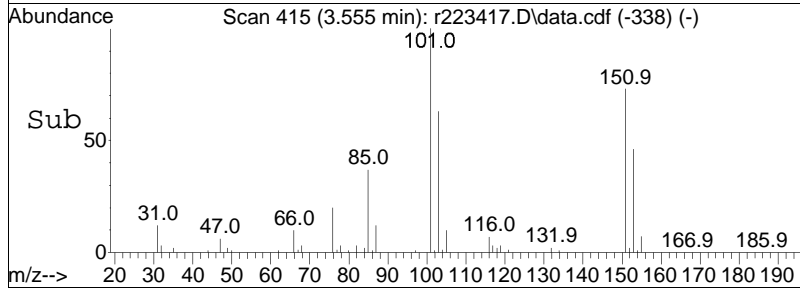
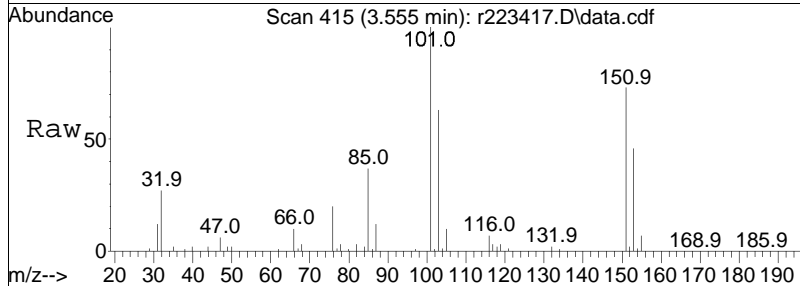
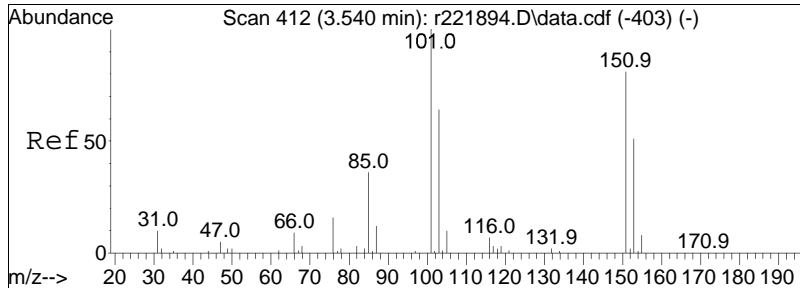




#30
 carbon disulfide
 Concen: 8.64 ppbV
 RT: 3.575 min Scan# 419
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

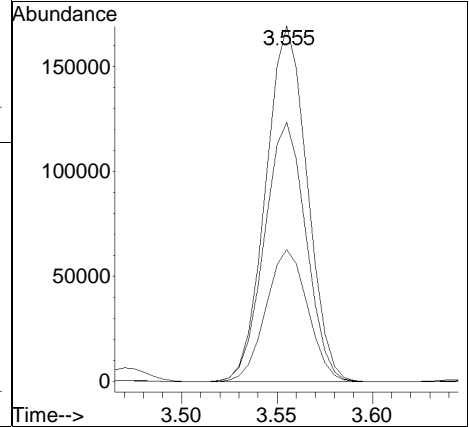
Tgt Ion	Resp	Lower	Upper
76	422251		
44	10.0	6.8	10.2

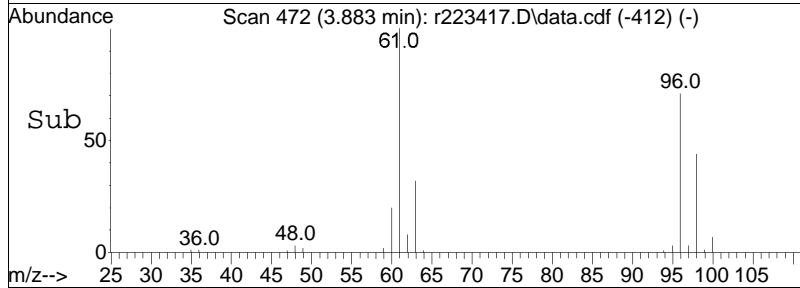
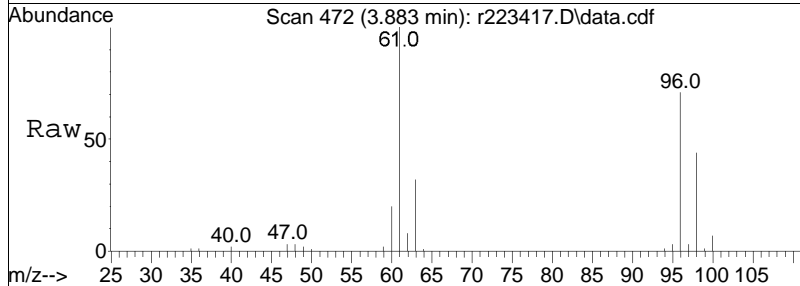
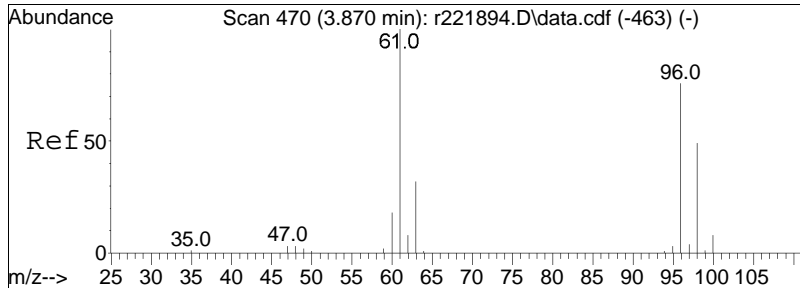




#31
 Freon 113
 Concen: 9.52 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

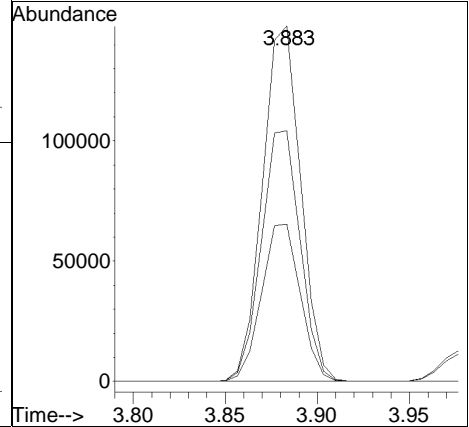
Tgt Ion	Resp	Lower	Upper
101	255230		
101	100		
85	37.1	28.6	43.0
151	72.9	64.6	97.0

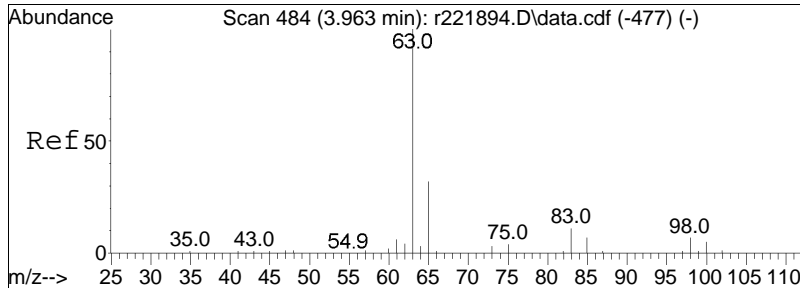




#32
 trans-1,2-dichloroethene
 Concen: 9.38 ppbV
 RT: 3.883 min Scan# 472
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

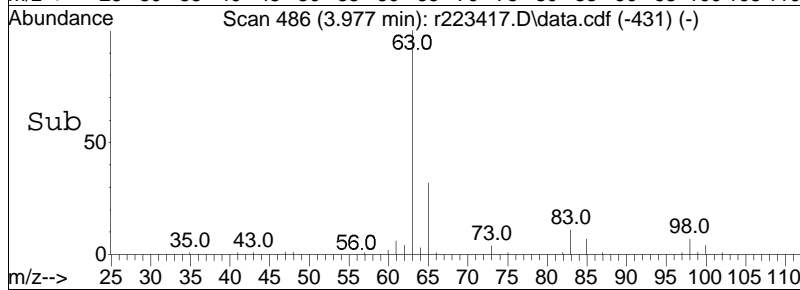
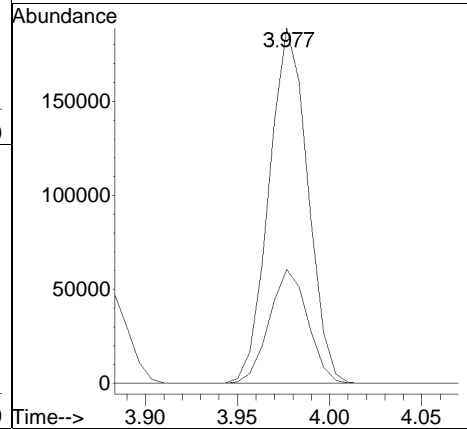
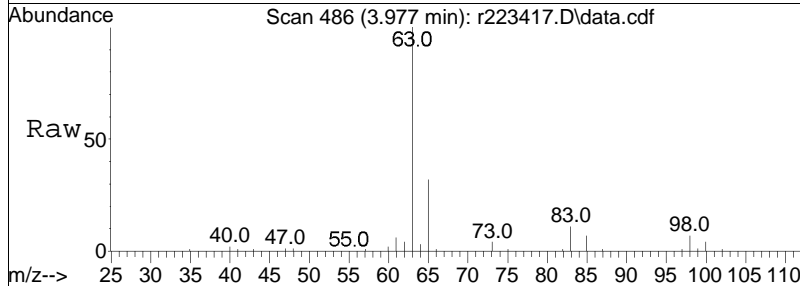
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	70.5	61.0	91.6
98	44.3	39.0	58.6

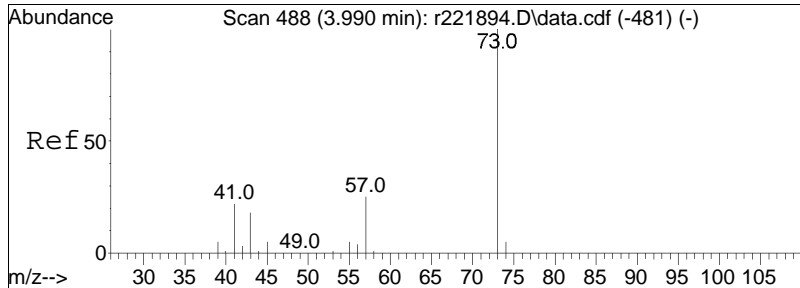




#33
 1,1-dichloroethane
 Concen: 9.50 ppbV
 RT: 3.977 min Scan# 486
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

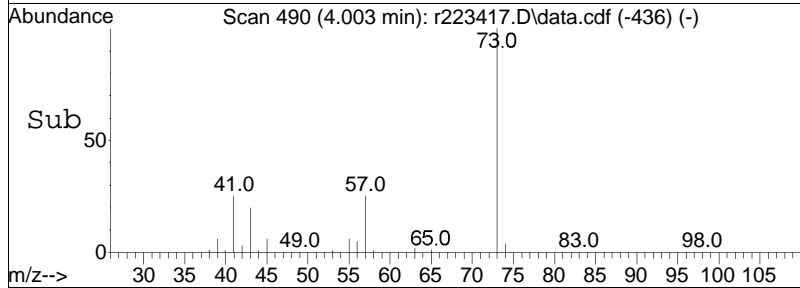
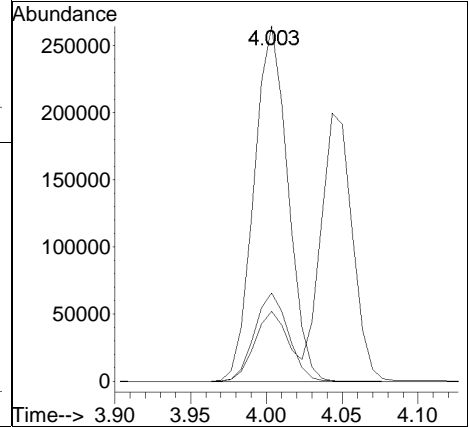
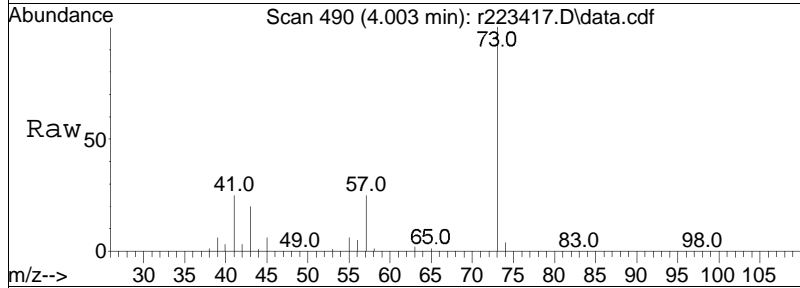
Tgt Ion:	Resp:	Lower	Upper
63	100		
65	32.0	25.5	38.3

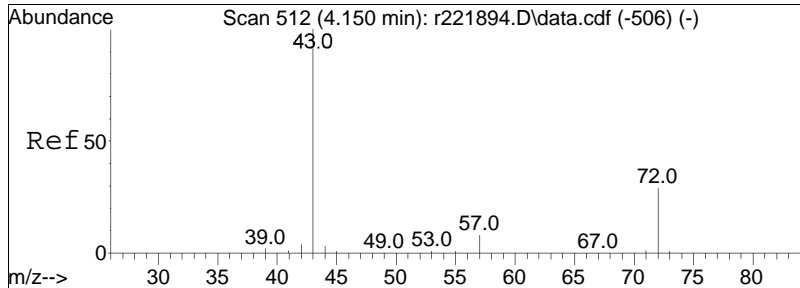




#34
 MTBE
 Concen: 9.78 ppbV
 RT: 4.003 min Scan# 490
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

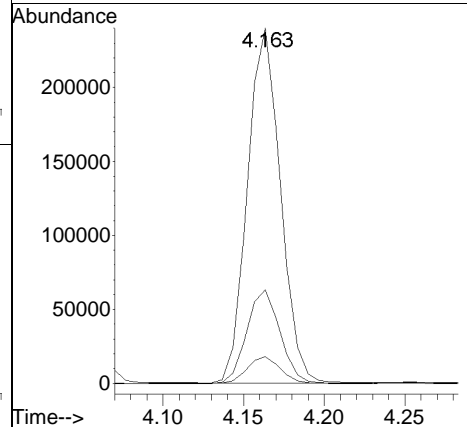
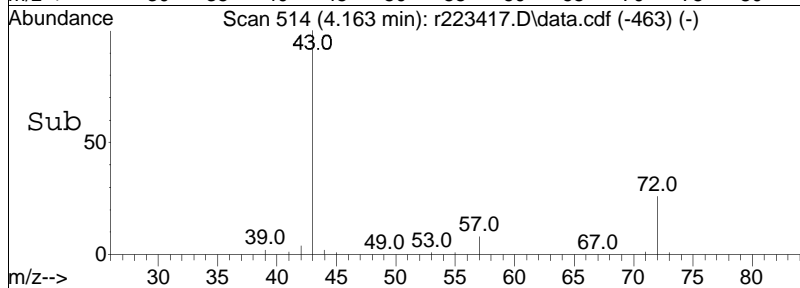
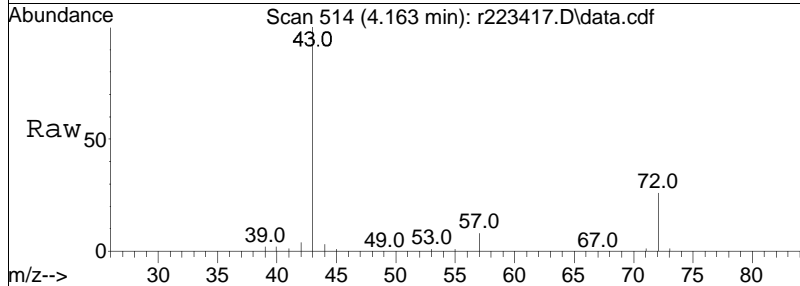
Tgt Ion:	73	Resp:	412478
Ion Ratio	Lower	Upper	
73	100		
57	24.9	19.8	29.6
43	19.7	14.1	21.1

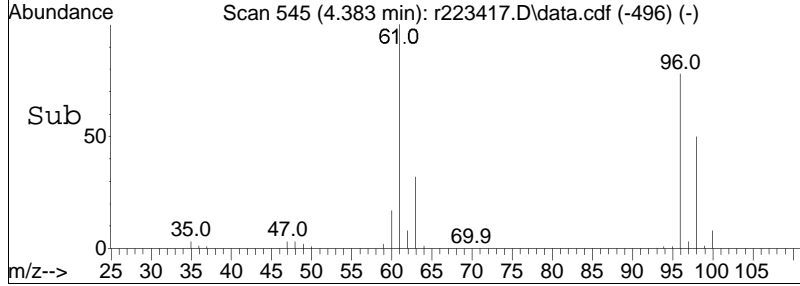
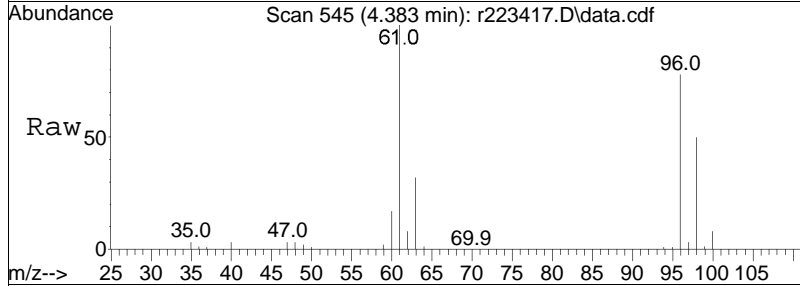
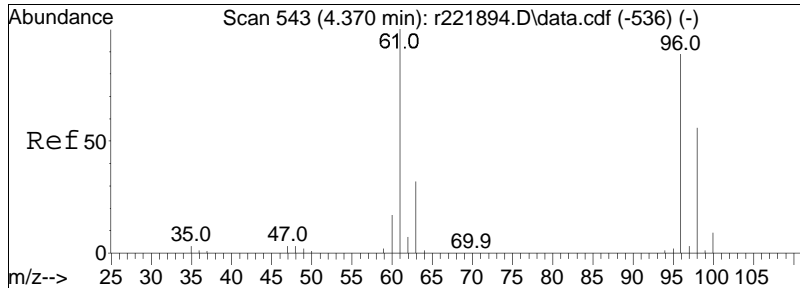




#36
 2-butanone
 Concen: 9.43 ppbV
 RT: 4.163 min Scan# 514
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

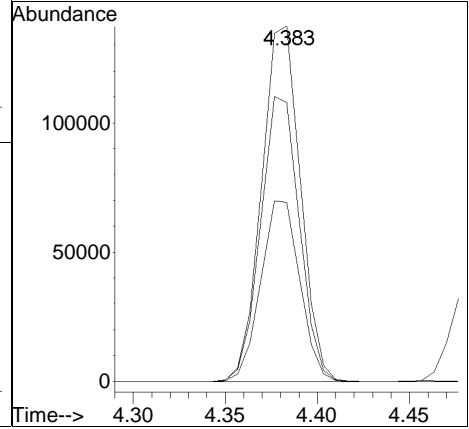
Tgt Ion	Resp	Lower	Upper
43	340696		
Ion Ratio			
43	100		
72	26.3	23.0	34.6
57	7.5	6.3	9.5

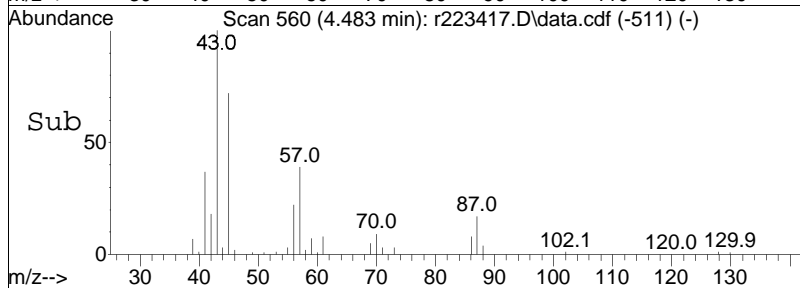
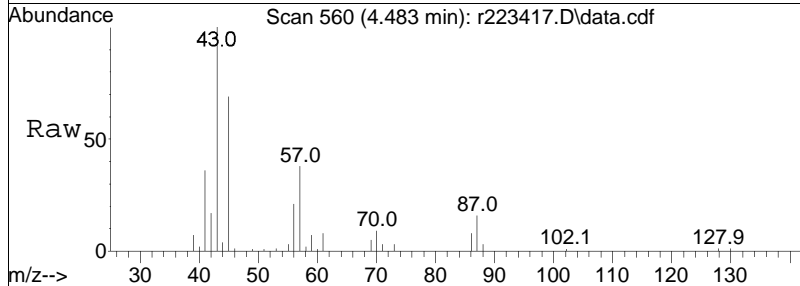
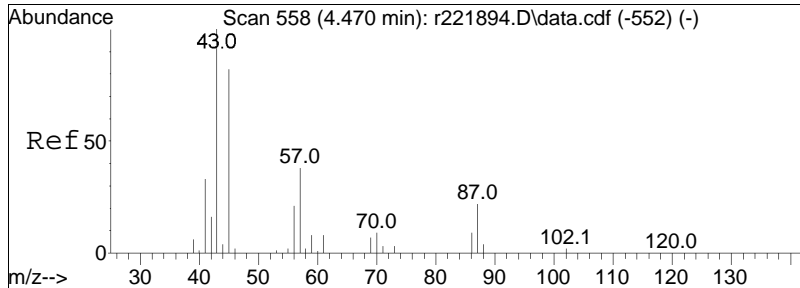




#37
 cis-1,2-dichloroethene
 Concen: 9.75 ppbV
 RT: 4.383 min Scan# 545
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

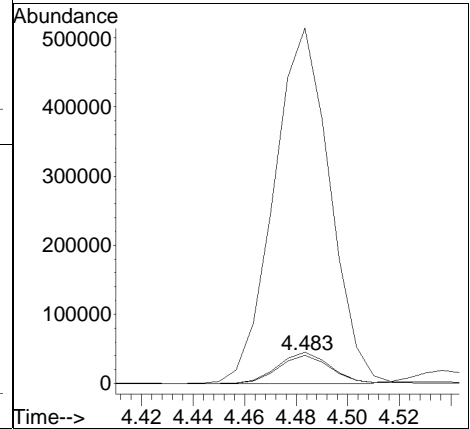
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	78.5	71.0	106.4
98	50.4	44.8	67.2

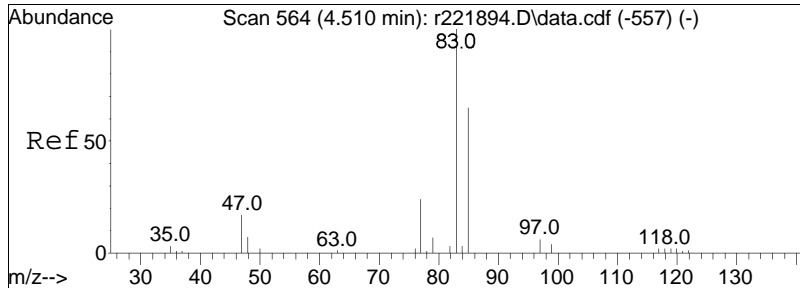




#38
 Ethyl Acetate
 Concen: 10.15 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

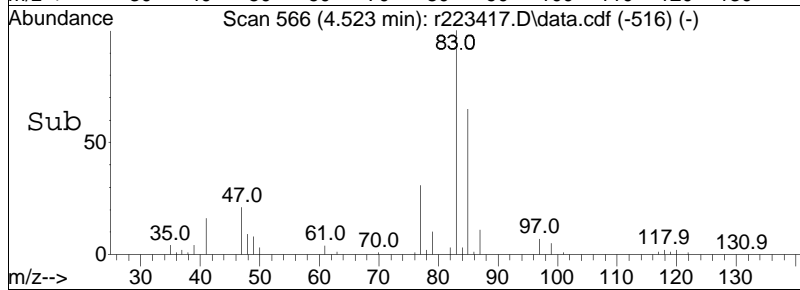
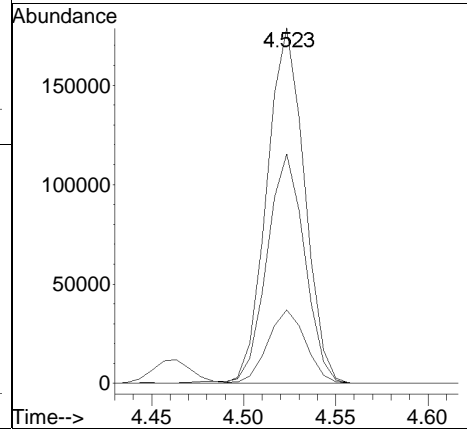
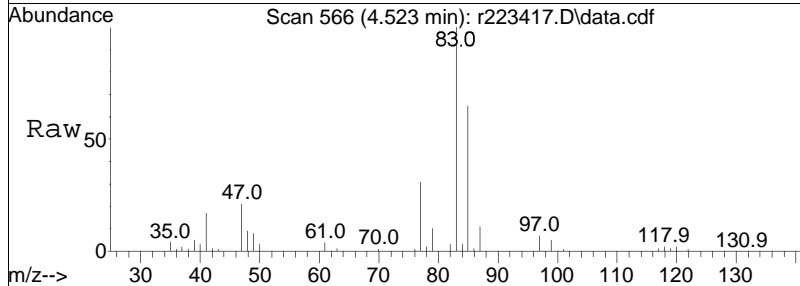
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	111.3	91.7	137.5
43	1264.2	971.0	1456.6

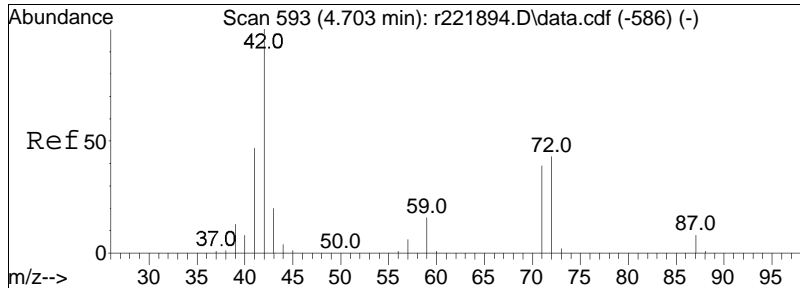




#39
 chloroform
 Concen: 9.96 ppbV
 RT: 4.523 min Scan# 566
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

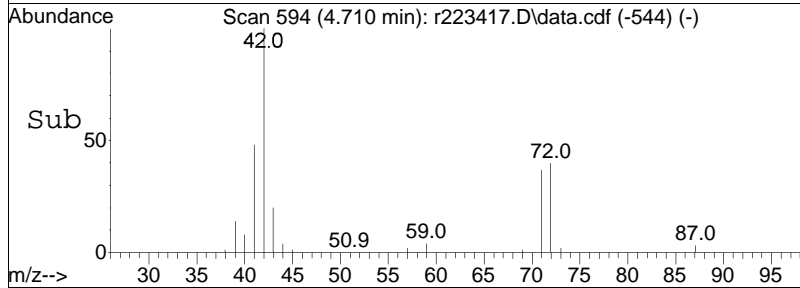
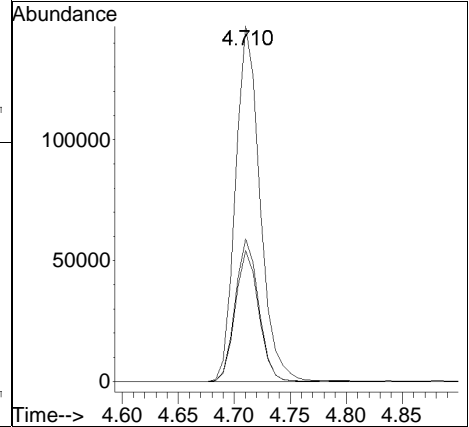
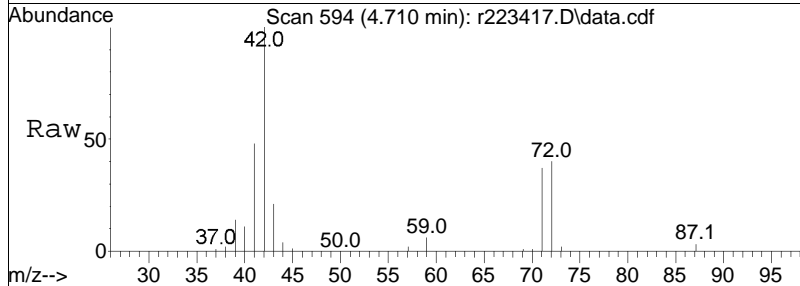
Tgt Ion:	83	Resp:	253913
Ion Ratio	Lower	Upper	
83	100		
85	64.6	52.6	79.0
47	20.7	15.1	22.7

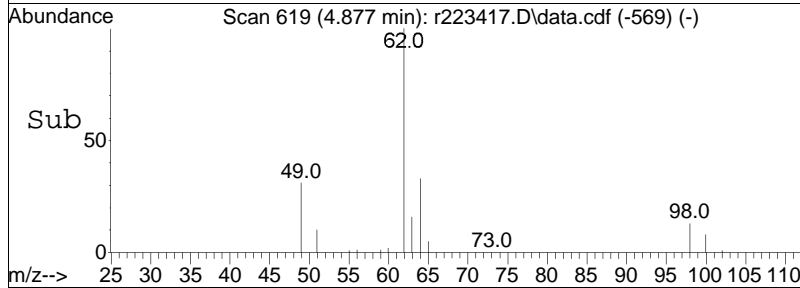
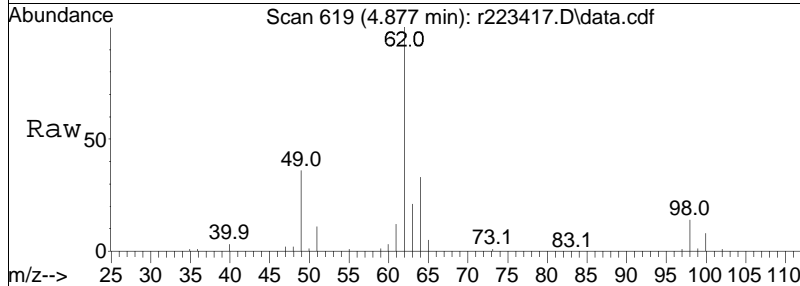
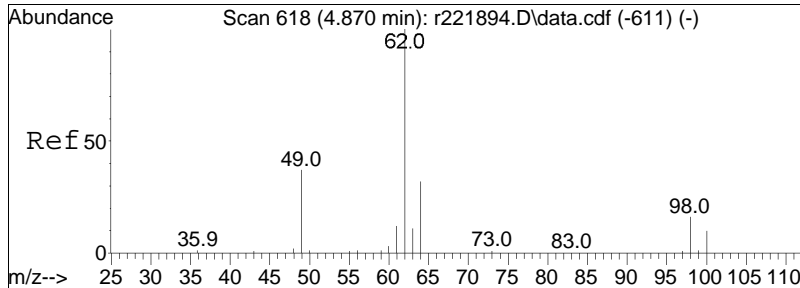




#40
 Tetrahydrofuran
 Concen: 9.72 ppbV
 RT: 4.710 min Scan# 594
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

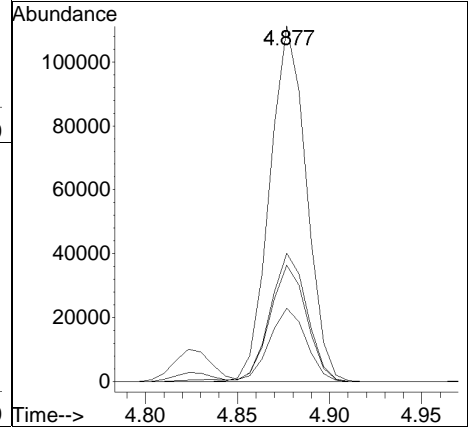
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
42	100		
71	36.8	31.4	47.2
72	40.1	34.3	51.5

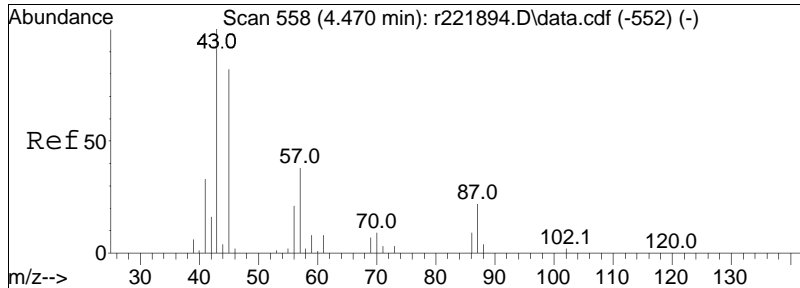




#42
 1,2-dichloroethane
 Concen: 10.59 ppbV
 RT: 4.877 min Scan# 619
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

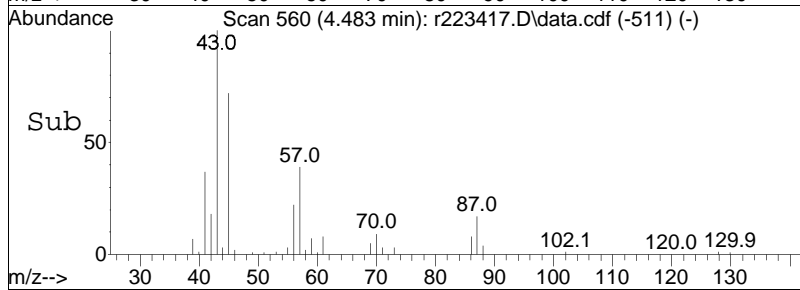
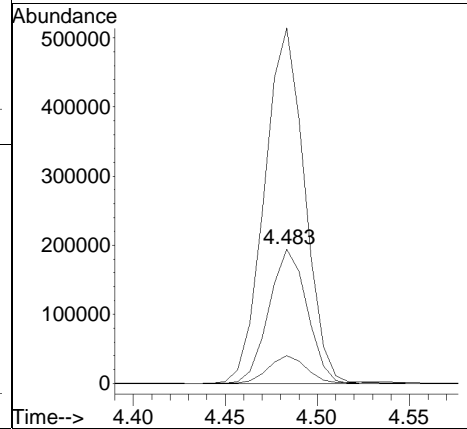
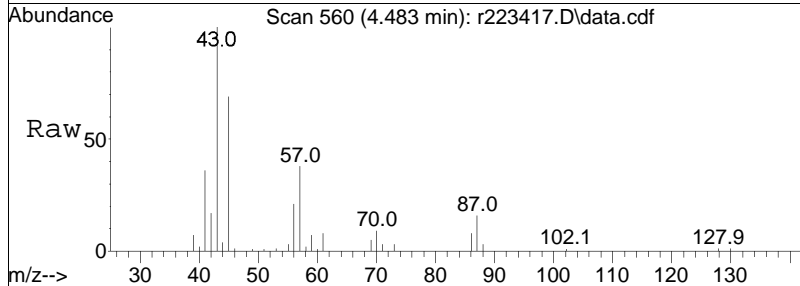
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
62	100		
64	32.7	26.4	39.6
49	36.0	32.0	48.0
63	20.6	18.3	27.5

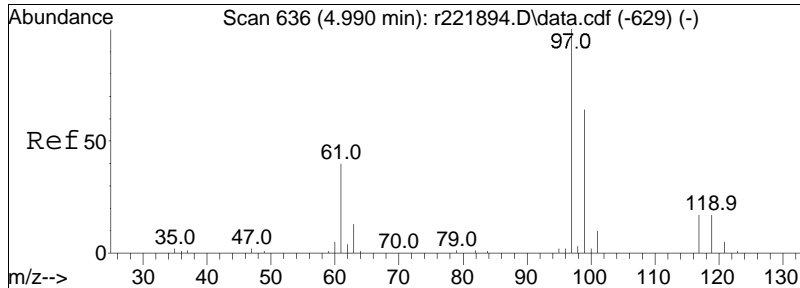




#44
 hexane
 Concen: 12.49 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

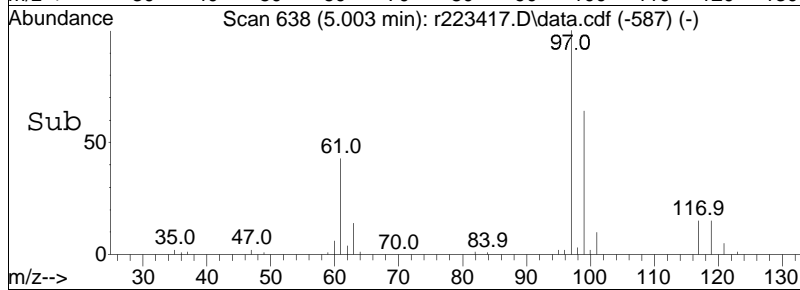
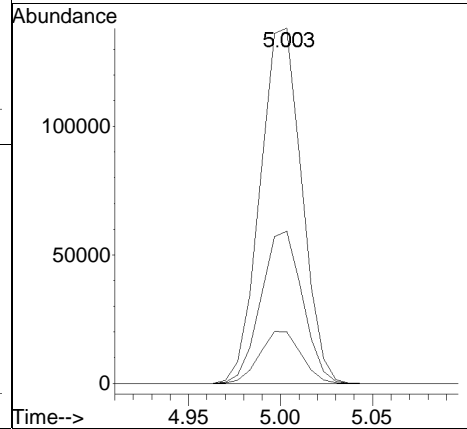
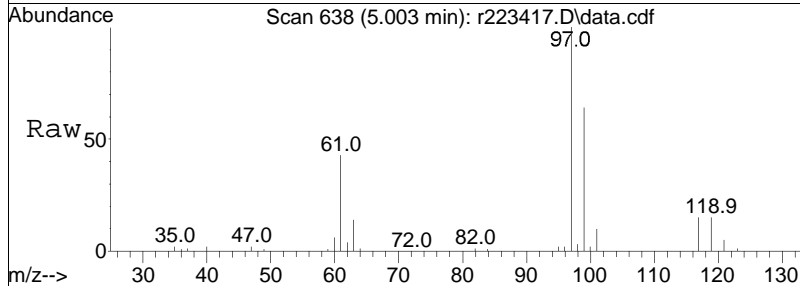
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	264.6	210.8	316.2
86	20.7	17.9	26.9

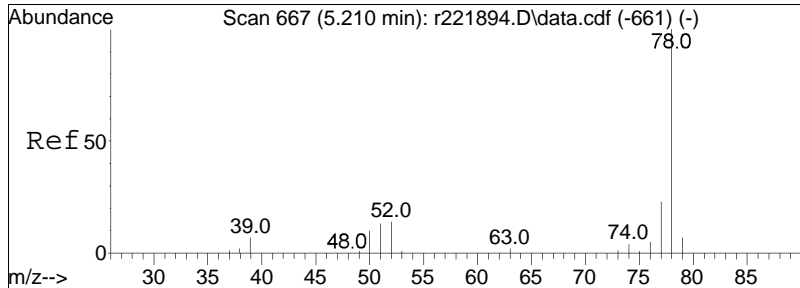




#48
 1,1,1-trichloroethane
 Concen: 12.40 ppbV
 RT: 5.003 min Scan# 638
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

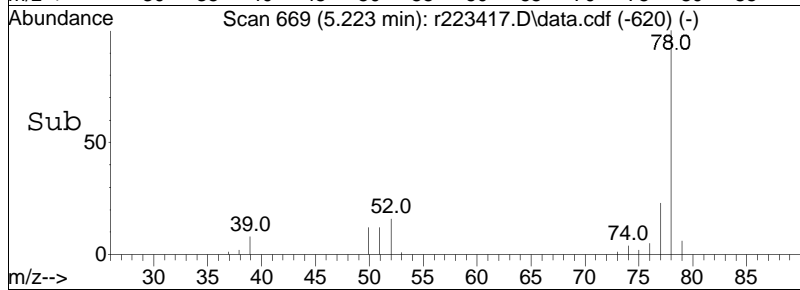
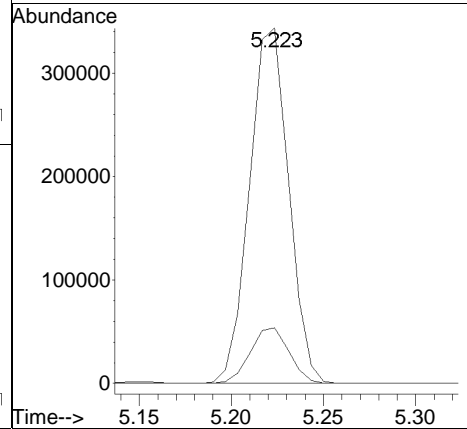
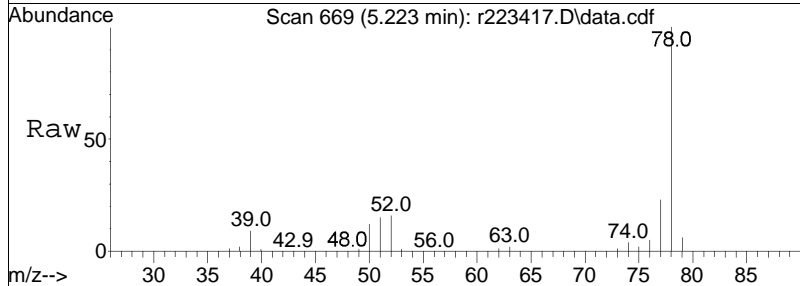
Tgt Ion	Resp	Lower	Upper
97	217480		
61	42.8	31.7	47.5
119	14.5	13.4	20.2

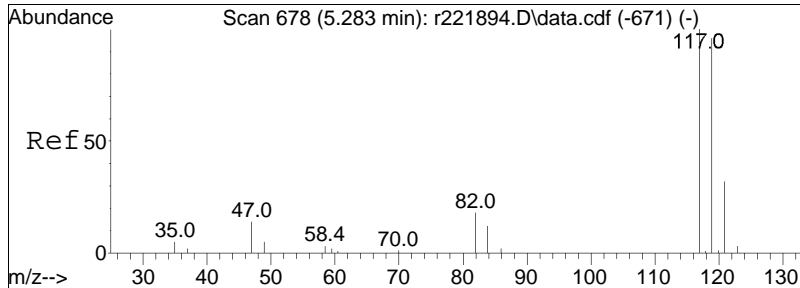




#50
benzene
Concen: 10.75 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223417.D
Acq: 28 Mar 2024 1:50 PM

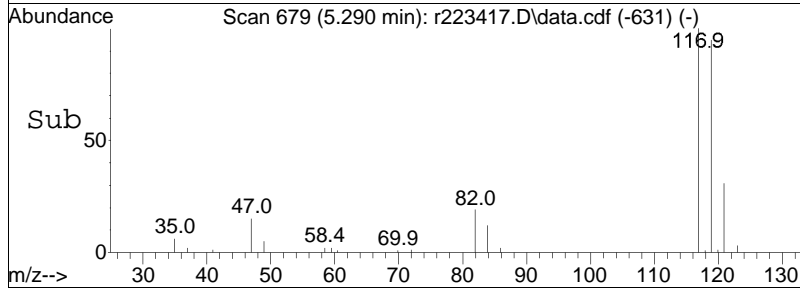
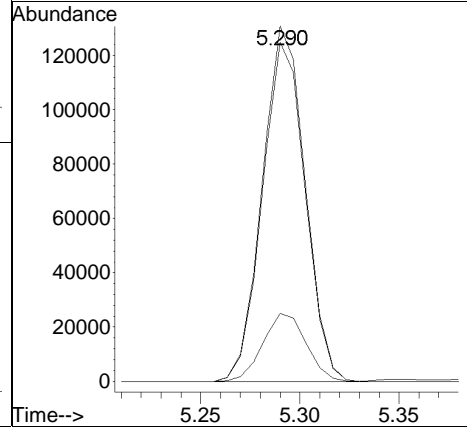
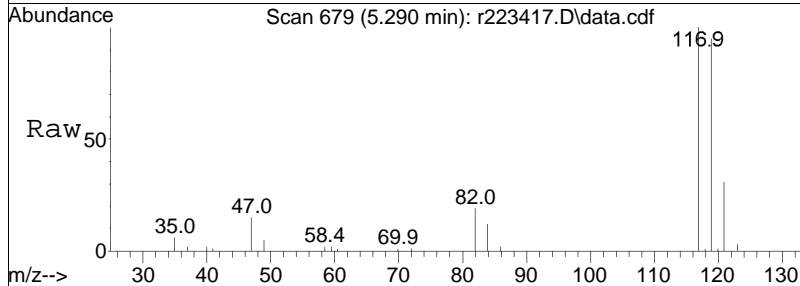
Tgt Ion: 78 Resp: 508303
Ion Ratio Lower Upper
78 100
52 15.7 11.3 16.9

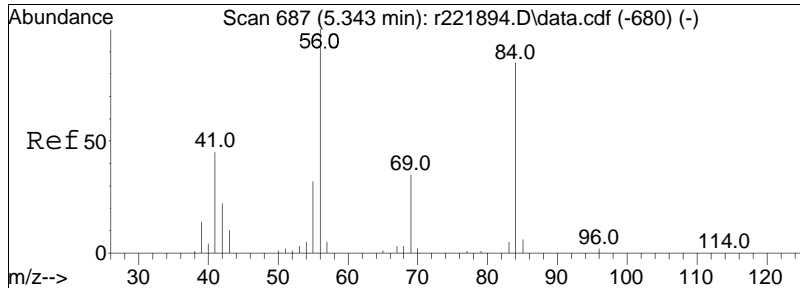




#52
 carbon tetrachloride
 Concen: 12.45 ppbV
 RT: 5.290 min Scan# 679
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

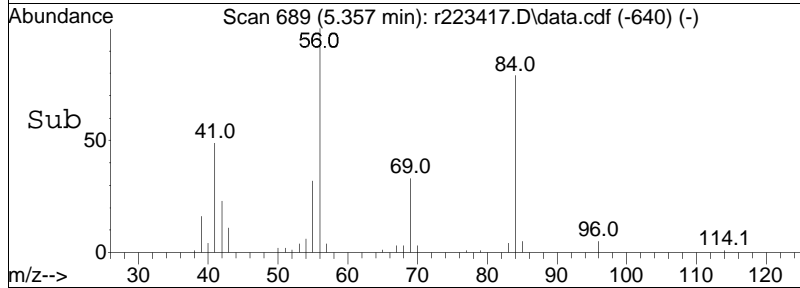
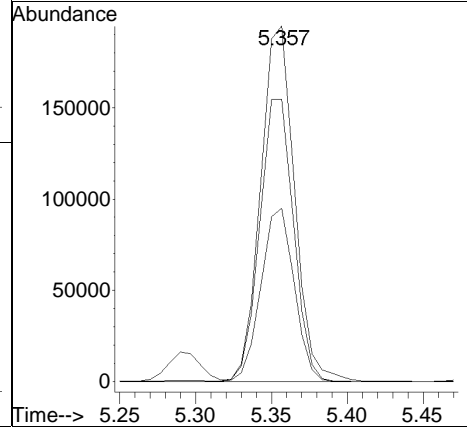
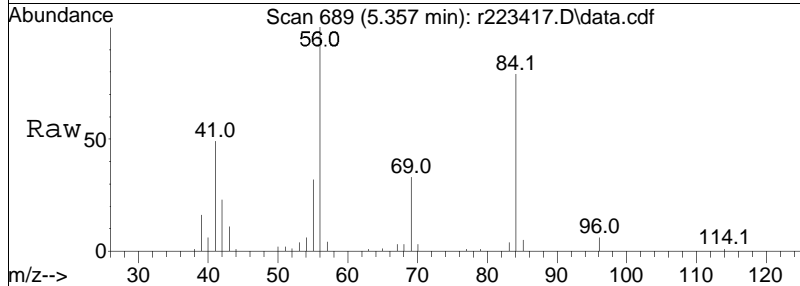
Tgt Ion	Resp	Lower	Upper
117	100		
119	95.5	76.5	114.7
82	19.2	14.7	22.1

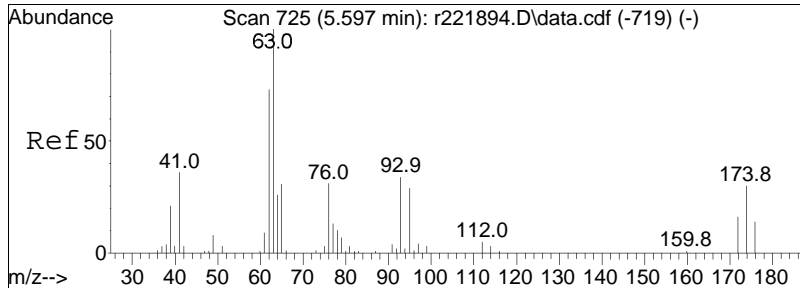




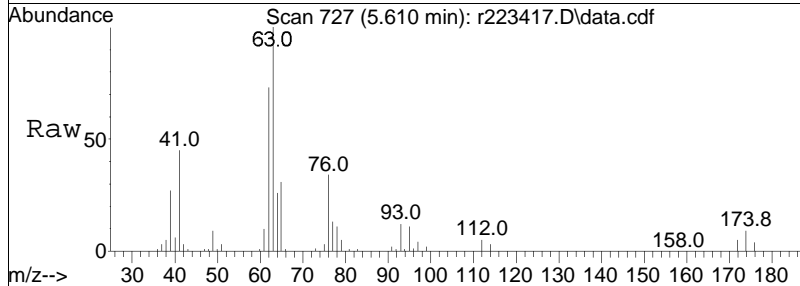
#53
 cyclohexane
 Concen: 11.82 ppbV
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
56	100		
84	79.4	70.9	106.3
41	48.7	35.8	53.6

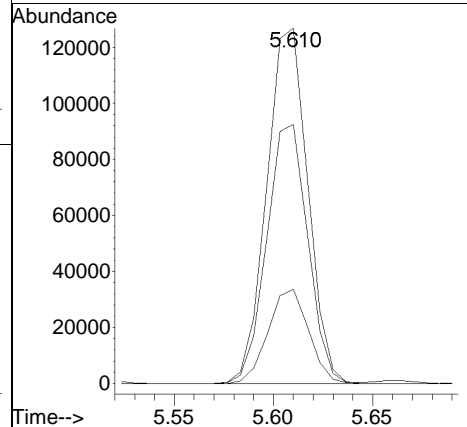
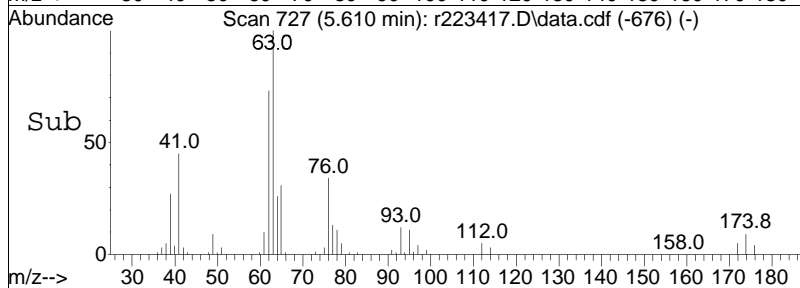


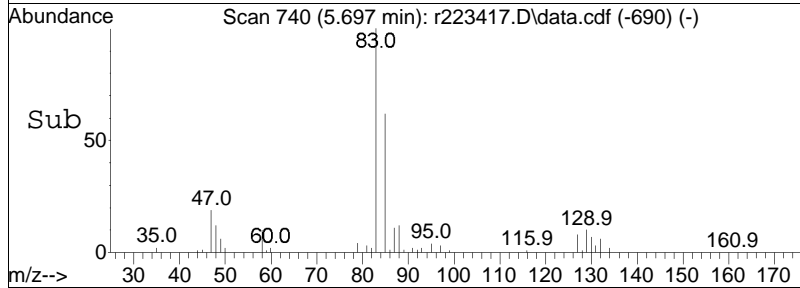
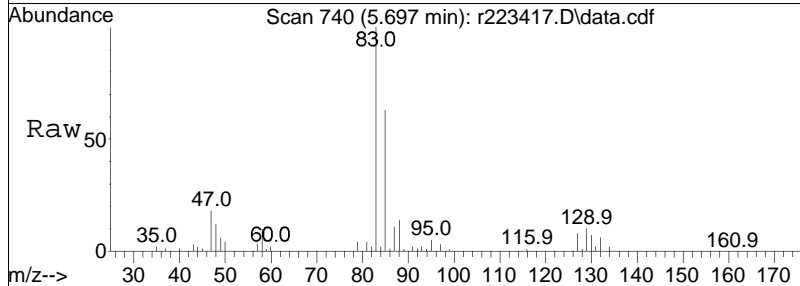
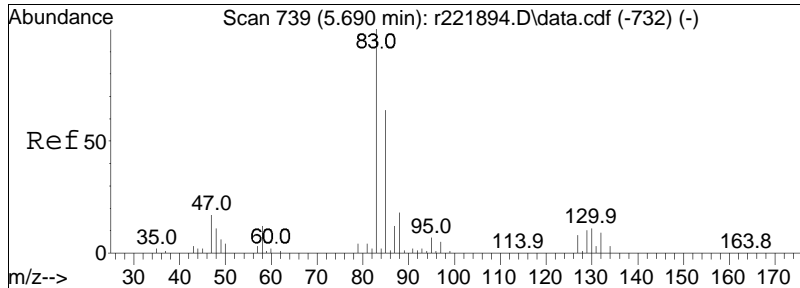


#56
 1,2-dichloropropane
 Concen: 11.83 ppbV
 RT: 5.610 min Scan# 727
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM



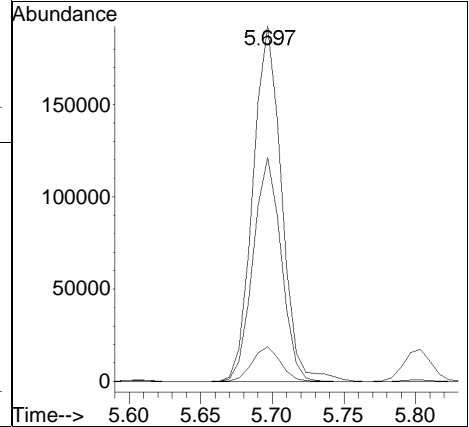
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
63	100		
62	72.9	58.5	87.7
39	26.5	16.8	25.2#

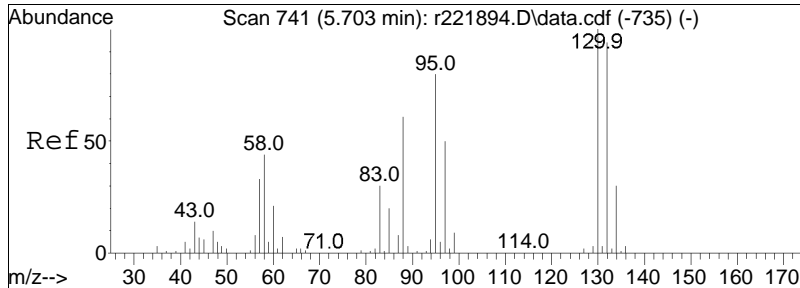




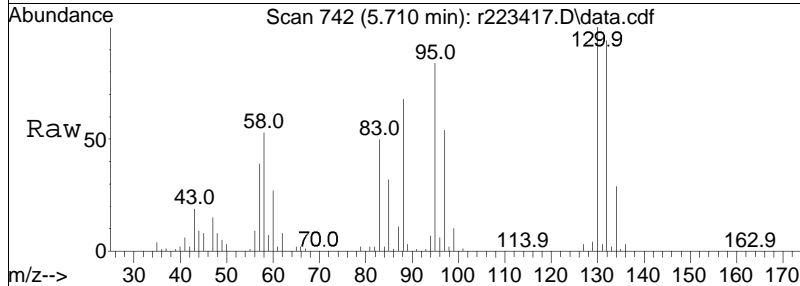
#57
 bromodichloromethane
 Concen: 13.05 ppbV
 RT: 5.697 min Scan# 740
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
83	100		
85	63.0	51.4	77.0
129	9.8	8.2	12.2

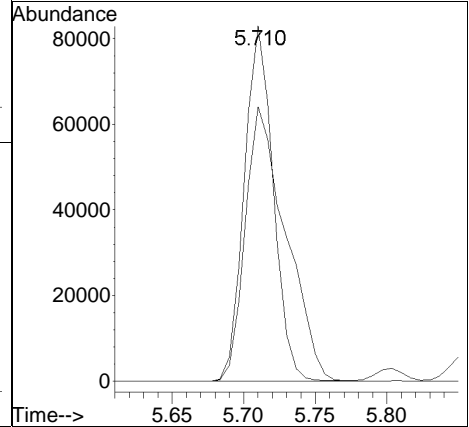
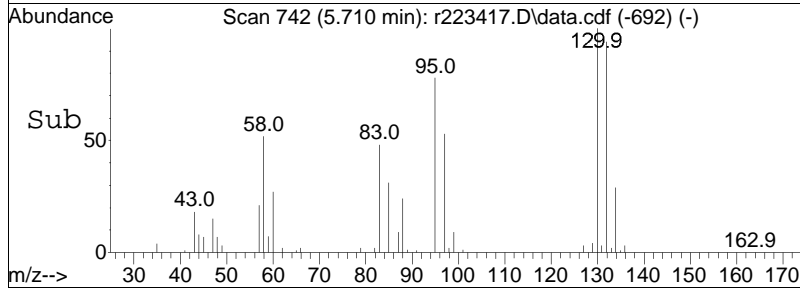


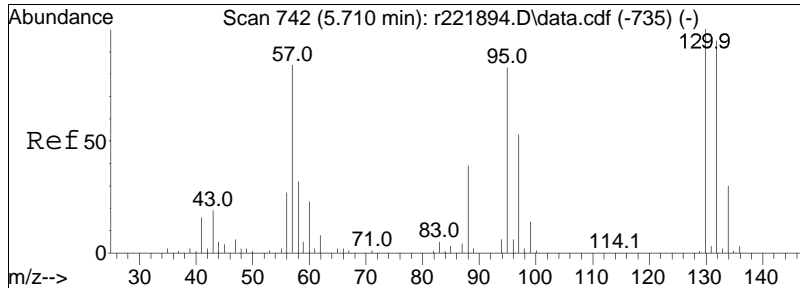


#58
 1,4-dioxane
 Concen: 11.32 ppbV
 RT: 5.710 min Scan# 742
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM



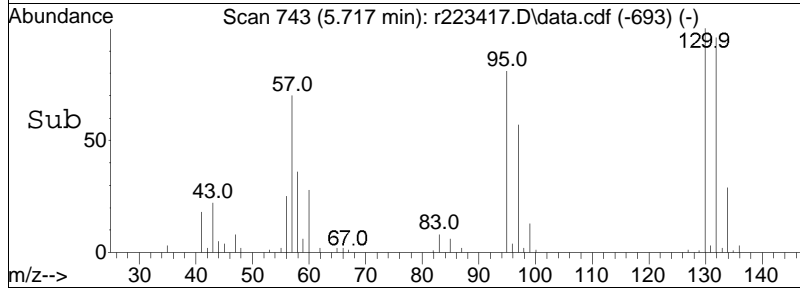
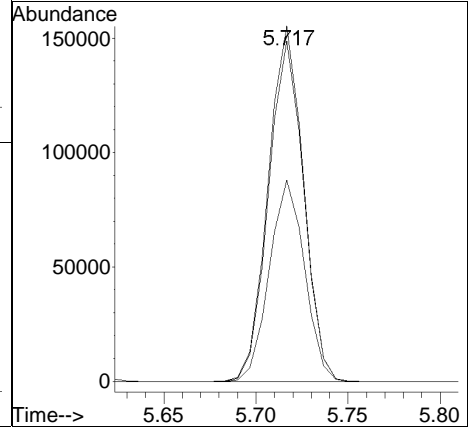
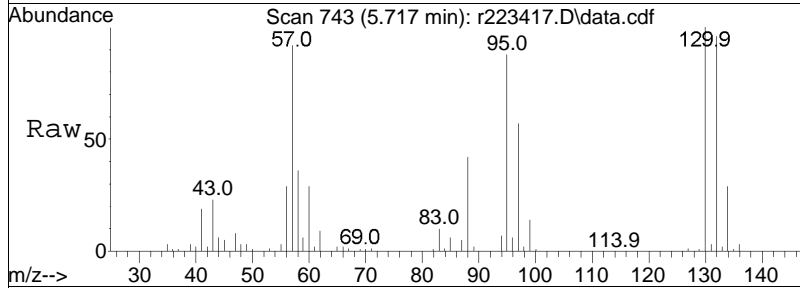
Tgt Ion: 88 Resp: 116827
 Ion Ratio Lower Upper
 88 100
 58 77.3 57.2 85.8

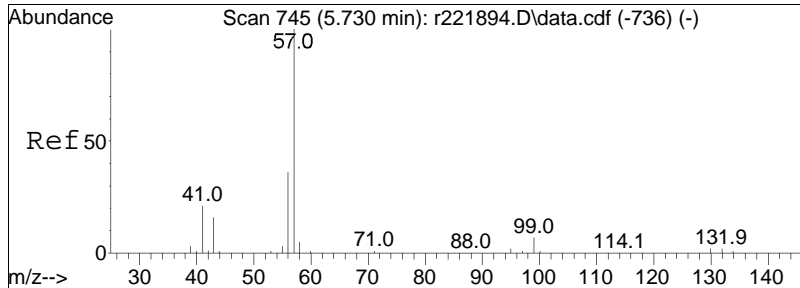




#59
 trichloroethene
 Concen: 11.07 ppbV
 RT: 5.717 min Scan# 743
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

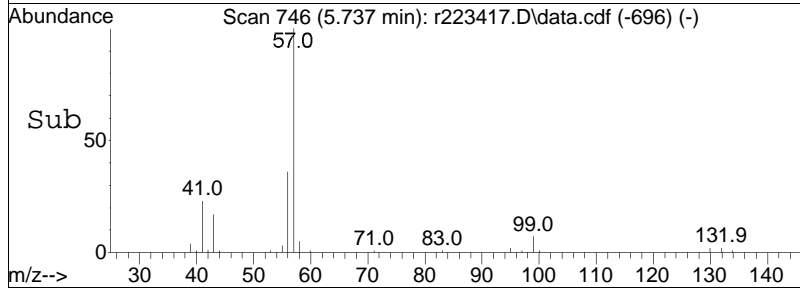
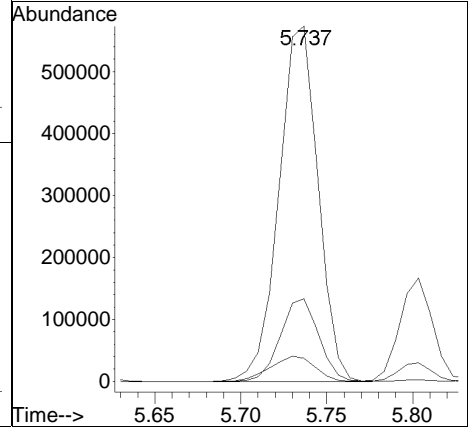
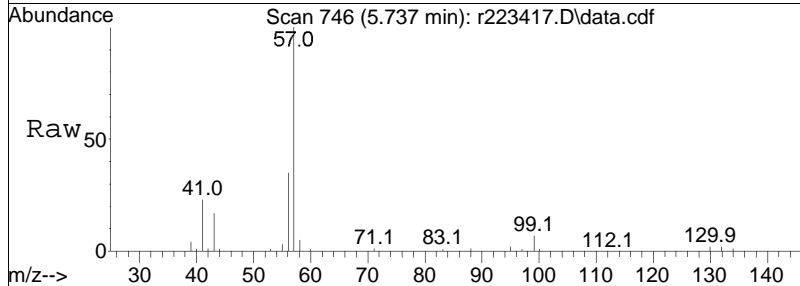
Tgt Ion	Ratio	Lower	Upper
130	100		
132	95.8	75.9	113.9
97	56.7	42.5	63.7

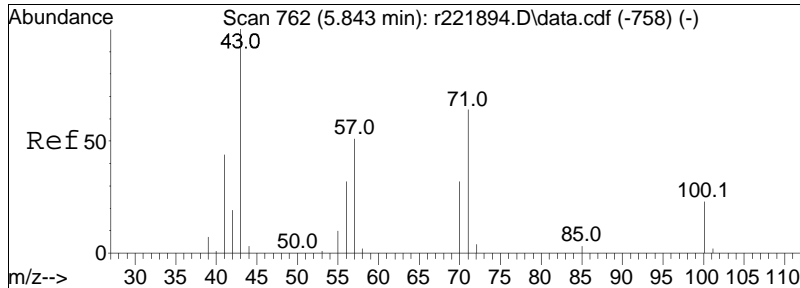




#60
 2,2,4-trimethylpentane
 Concen: 12.68 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

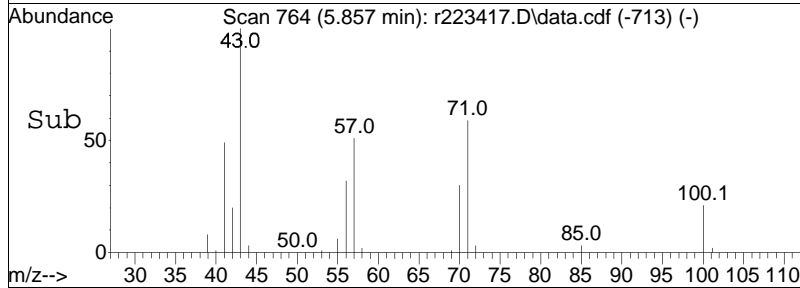
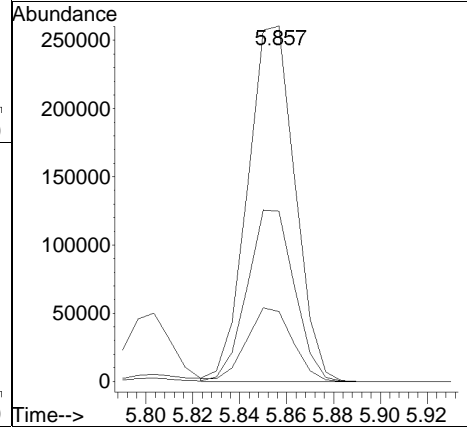
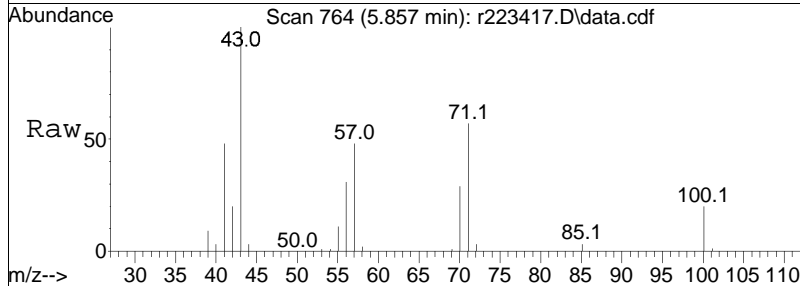
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
99	6.5	5.7	8.5
41	23.3	16.9	25.3

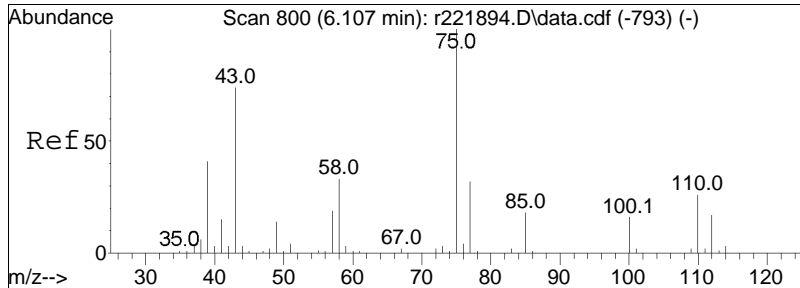




#62
 heptane
 Concen: 12.93 ppbV
 RT: 5.857 min Scan# 764
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

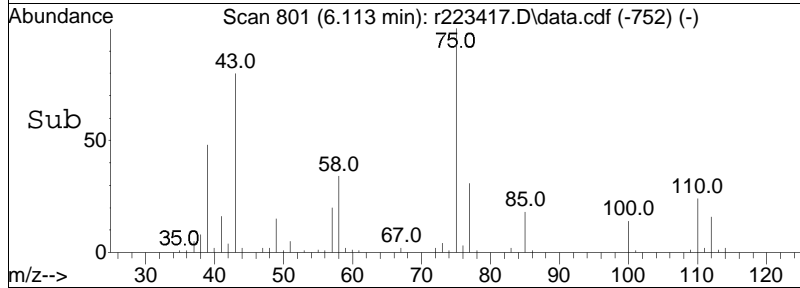
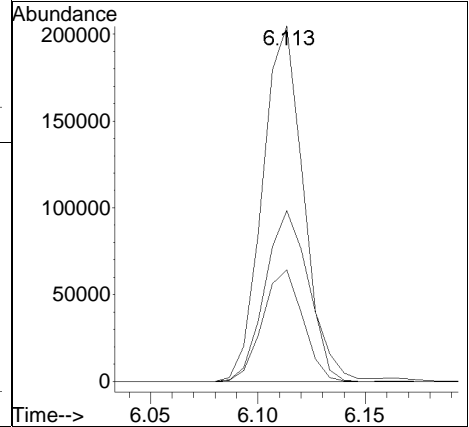
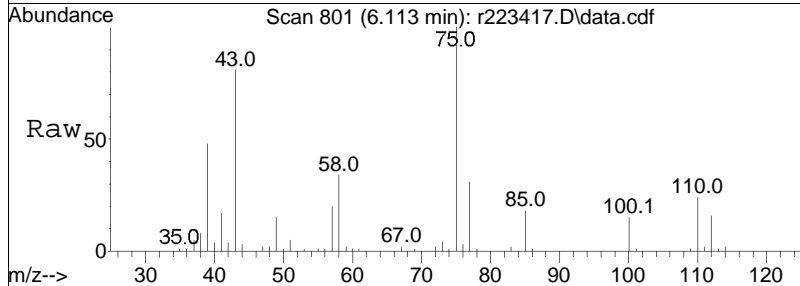
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
43	100		
57	47.9	40.4	60.6
100	19.7	19.0	28.6

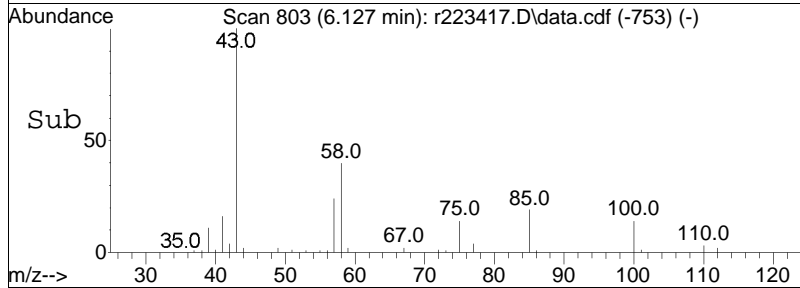
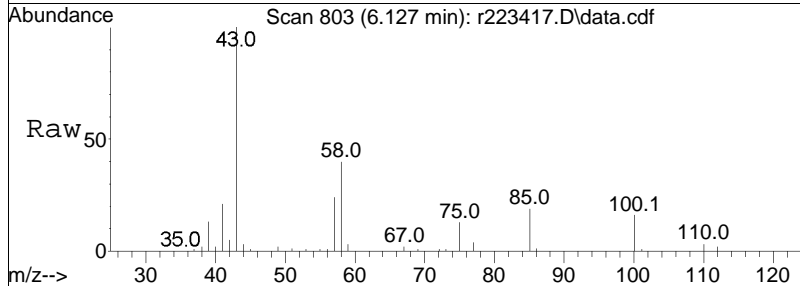
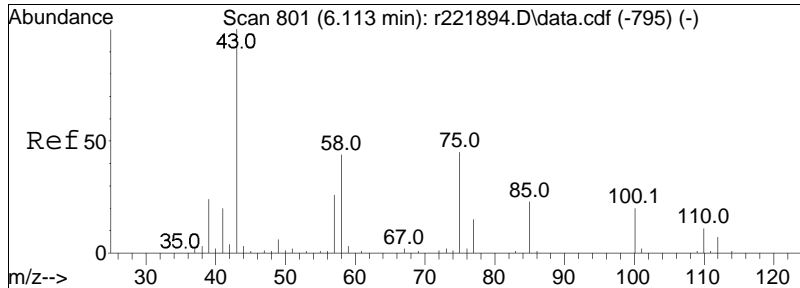




#63
 cis-1,3-dichloropropene
 Concen: 11.80 ppbV
 RT: 6.113 min Scan# 801
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

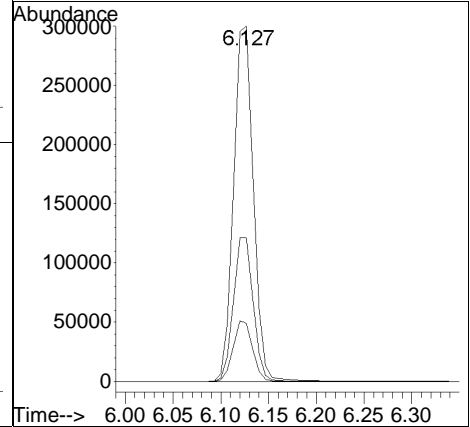
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
39	48.0	33.2	49.8
77	31.4	25.7	38.5

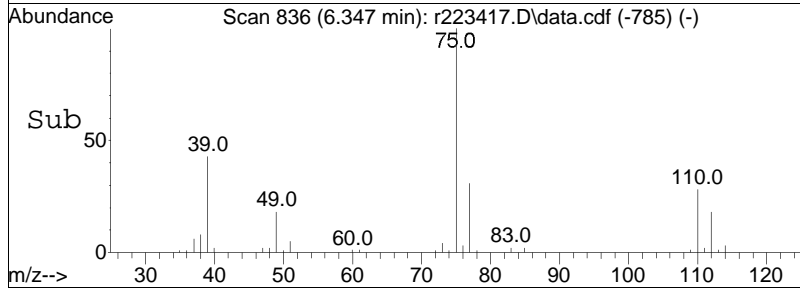
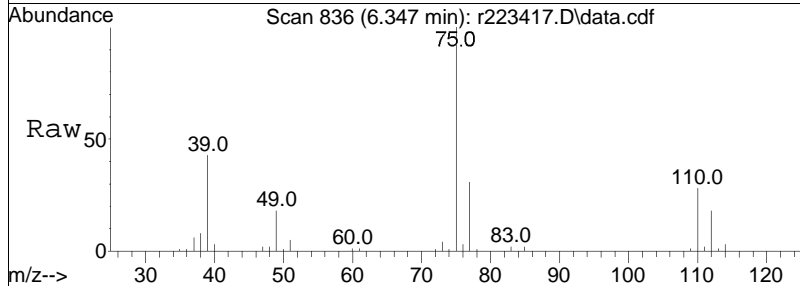
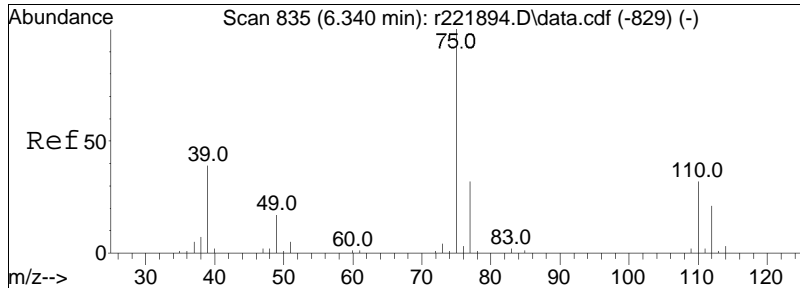




#64
 4-methyl-2-pentanone
 Concen: 13.79 ppbV
 RT: 6.127 min Scan# 803
 Delta R.T. 0.013 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

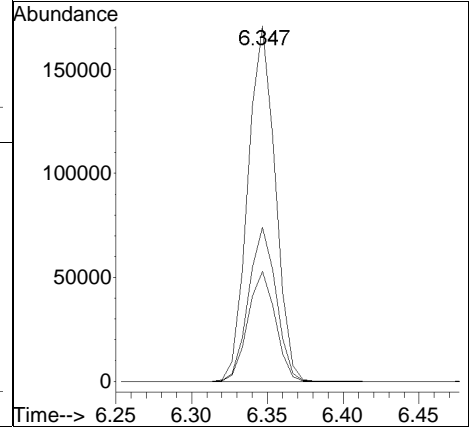
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
43	100		
58	40.4	34.9	52.3
100	16.4	16.1	24.1

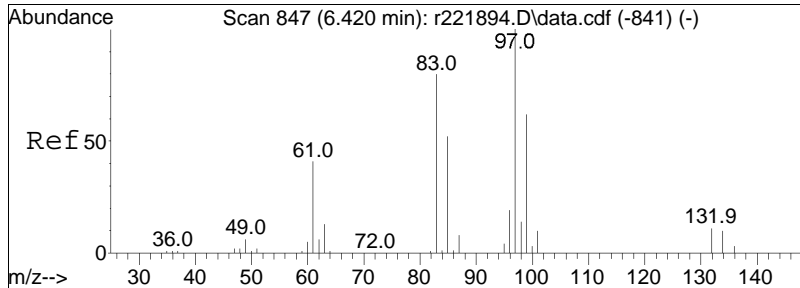




#65
 trans-1,3-dichloropropene
 Concen: 11.60 ppbV
 RT: 6.347 min Scan# 836
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

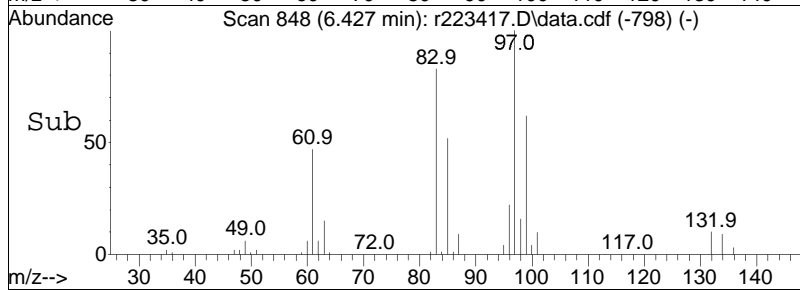
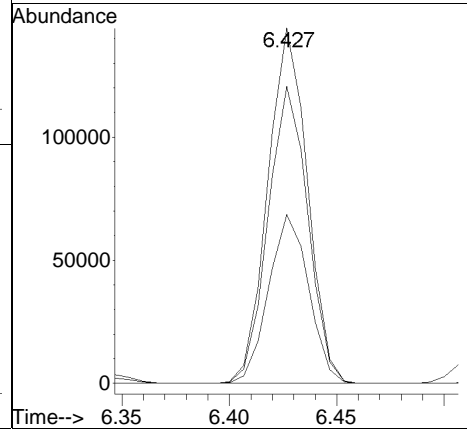
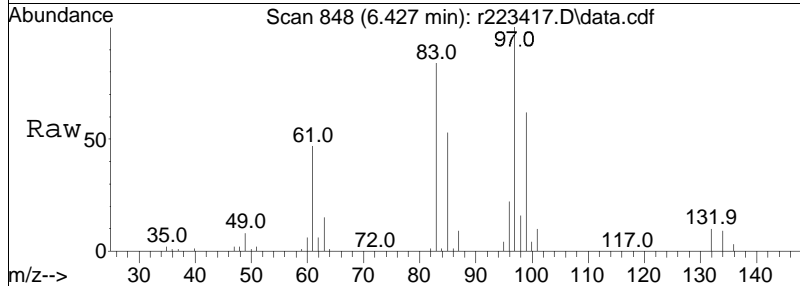
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.0	25.5	38.3
39	43.4	30.8	46.2

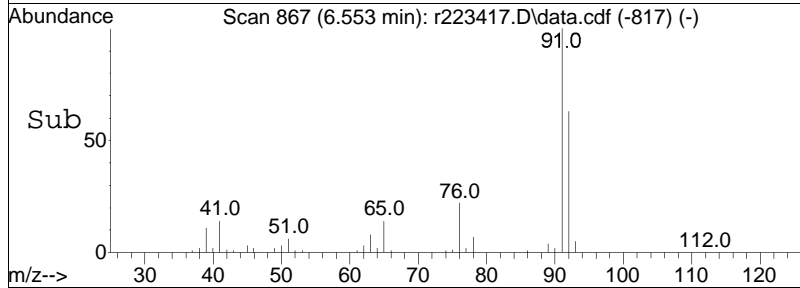
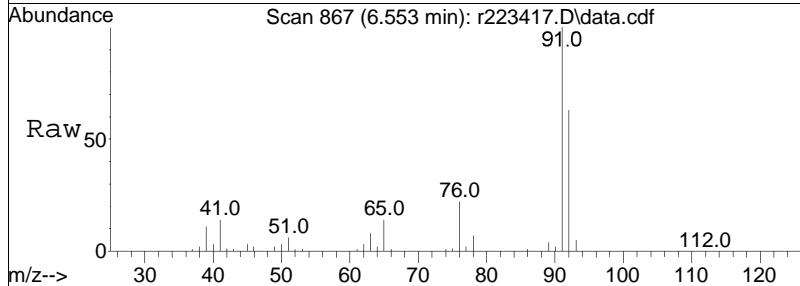
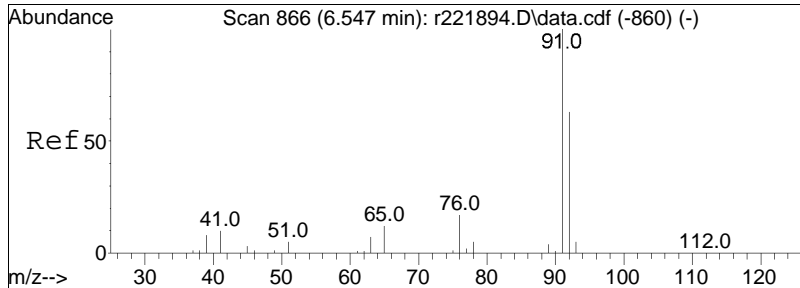




#66
 1,1,2-trichloroethane
 Concen: 11.09 ppbV
 RT: 6.427 min Scan# 848
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

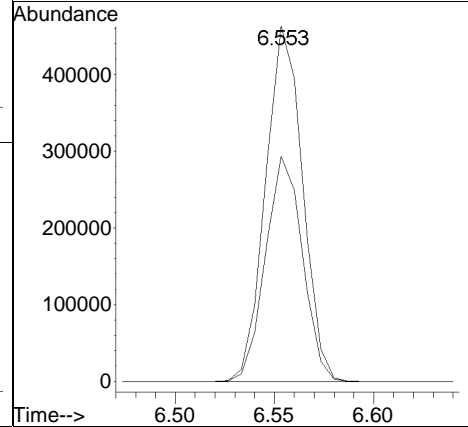
Tgt Ion	Resp	Lower	Upper
97	100		
83	83.5	64.0	96.0
61	47.5	32.5	48.7

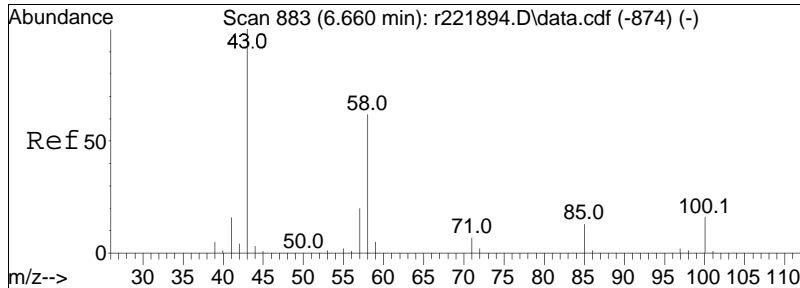




#68
 toluene
 Concen: 8.37 ppbV
 RT: 6.553 min Scan# 867
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

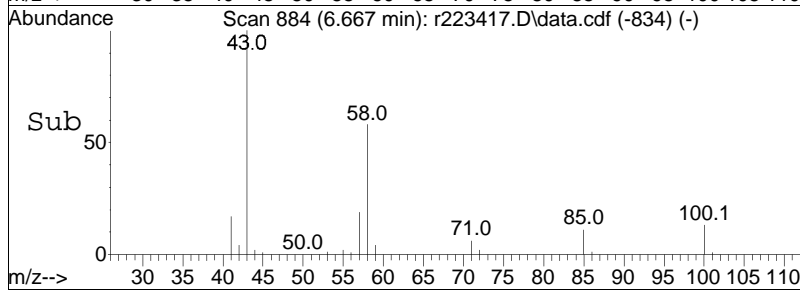
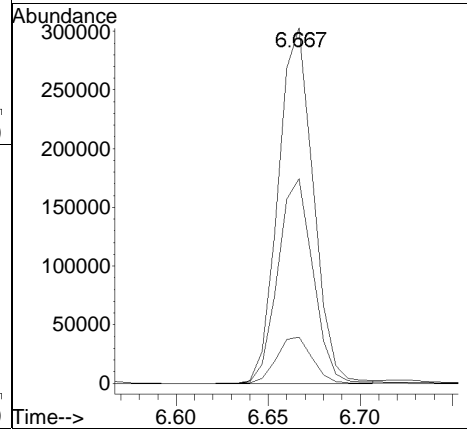
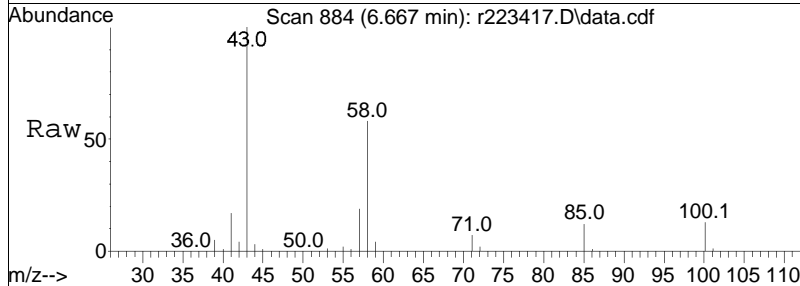
Tgt Ion:	91	Resp:	600170
Ion Ratio	Lower	Upper	
91	100		
92	63.4	50.7	76.1

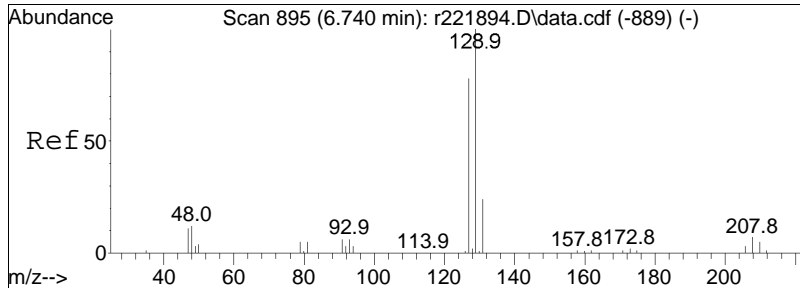




#72
 2-hexanone
 Concen: 9.56 ppbV
 RT: 6.667 min Scan# 884
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

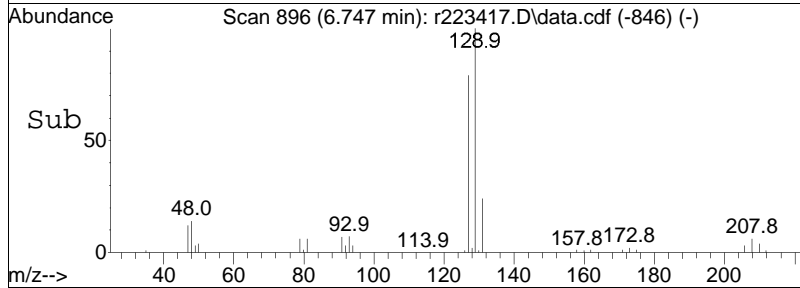
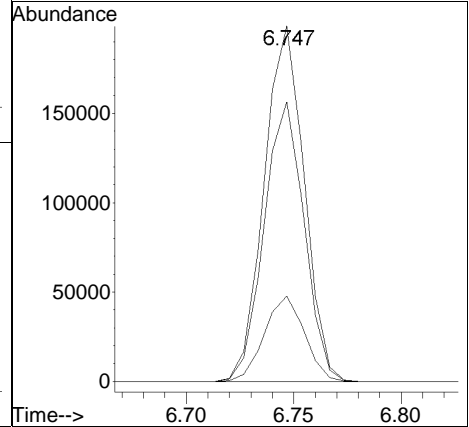
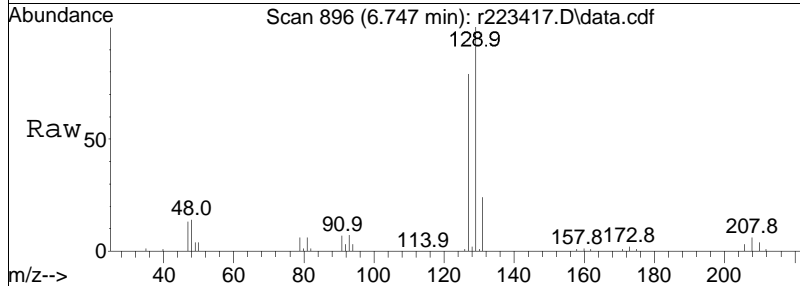
Tgt Ion:	43	Resp:	402095
Ion Ratio	Lower	Upper	
43	100		
58	57.6	49.2	73.8
100	13.1	12.4	18.6

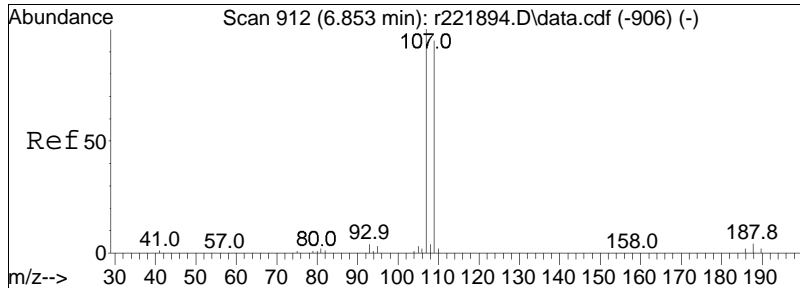




#74
 dibromochloromethane
 Concen: 9.04 ppbV
 RT: 6.747 min Scan# 896
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

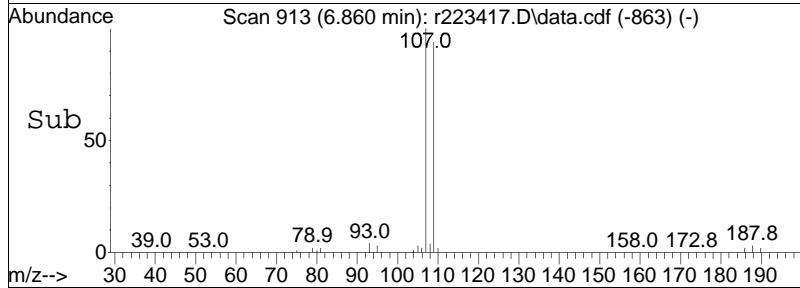
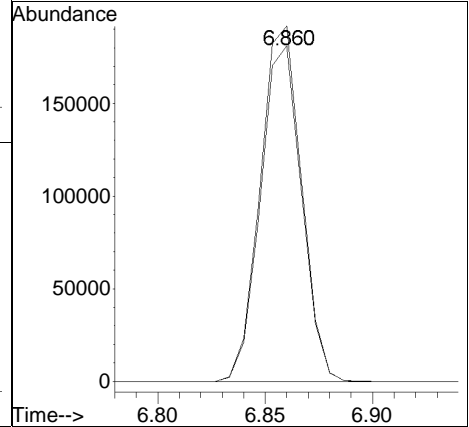
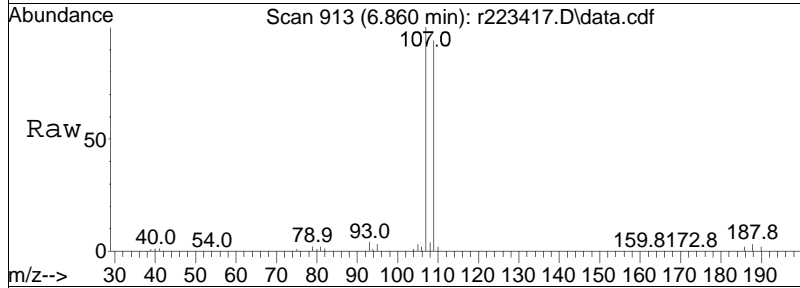
Tgt Ion	Resp	Lower	Upper
129	257604		
129	100		
127	78.7	62.3	93.5
131	24.0	19.3	28.9

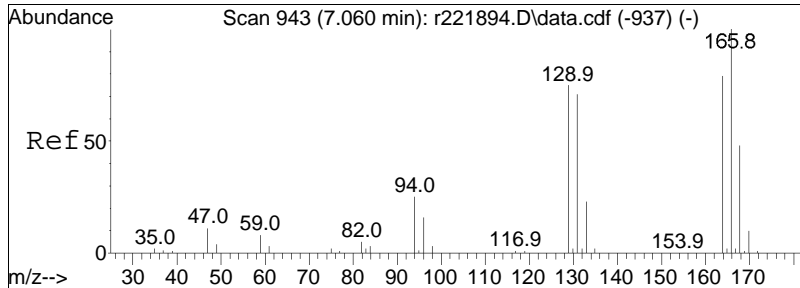




#75
 1,2-dibromoethane
 Concen: 8.12 ppbV
 RT: 6.860 min Scan# 913
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

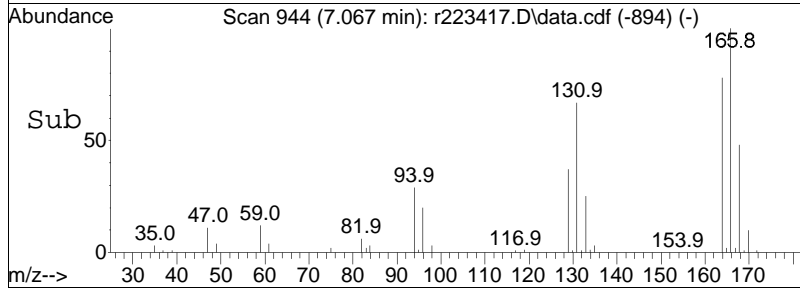
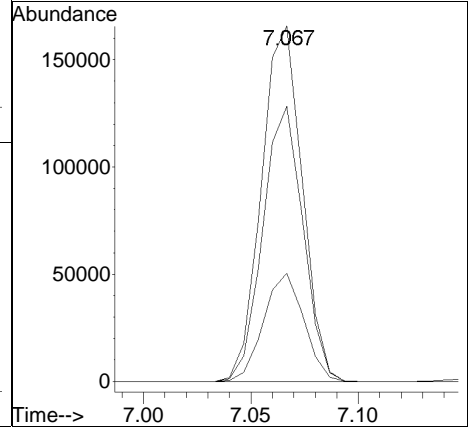
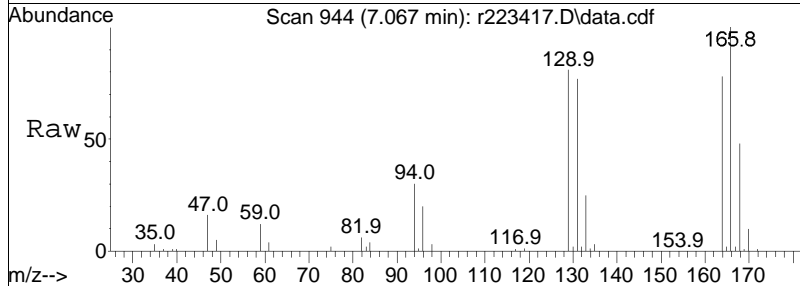
Tgt Ion	Resp	Lower	Upper
107	100		
109	94.4	76.1	114.1

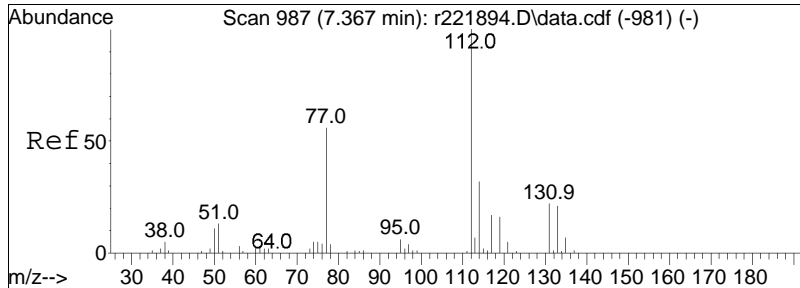




#78
 tetrachloroethene
 Concen: 7.85 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

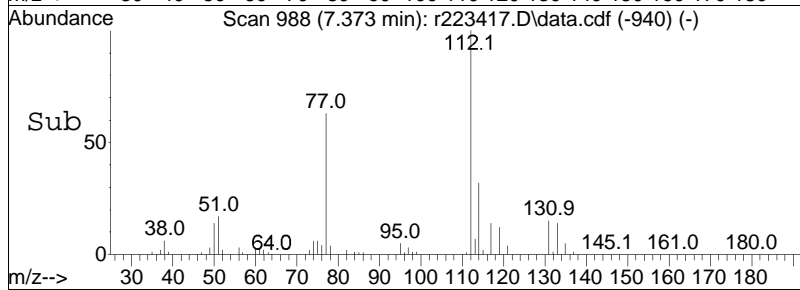
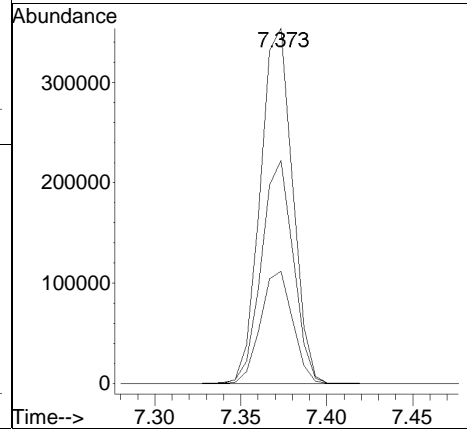
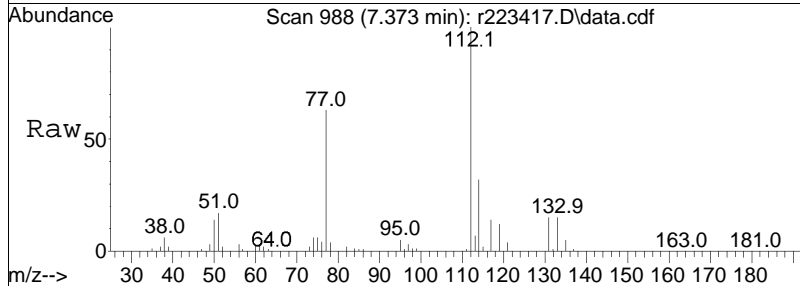
Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.4	56.9	85.3
94	30.4	19.8	29.8#

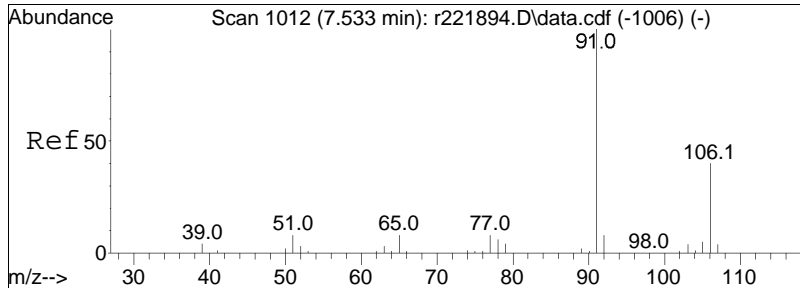




#80
 chlorobenzene
 Concen: 8.33 ppbV
 RT: 7.373 min Scan# 988
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

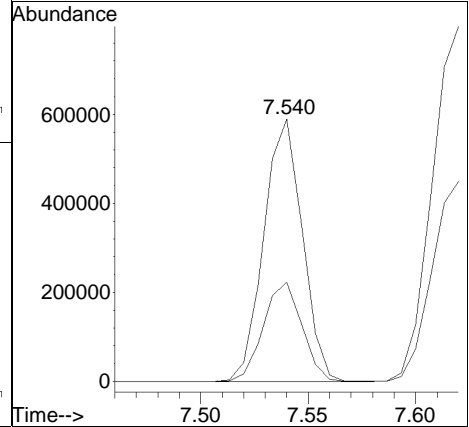
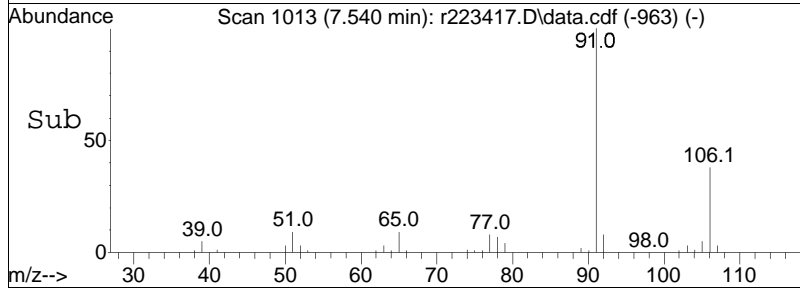
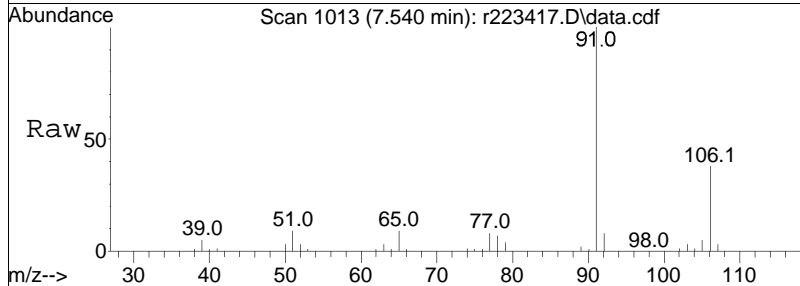
Tgt Ion	Resp	Lower	Upper
112	462208		
114	31.6	25.8	38.6
77	62.8	45.0	67.6

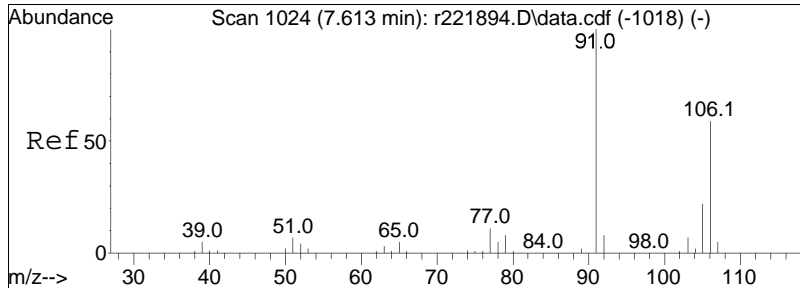




#81
 ethylbenzene
 Concen: 8.47 ppbV
 RT: 7.540 min Scan# 1013
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

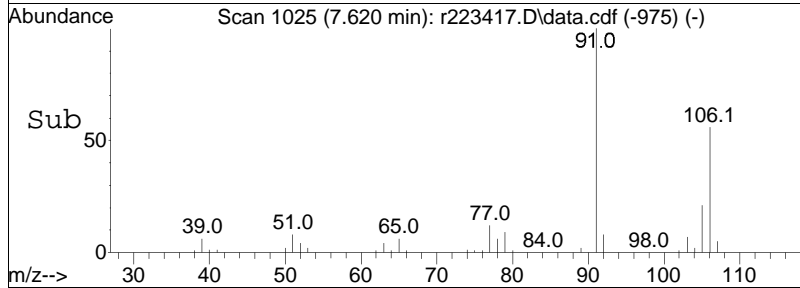
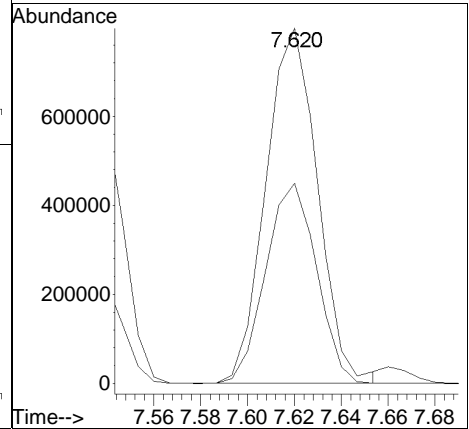
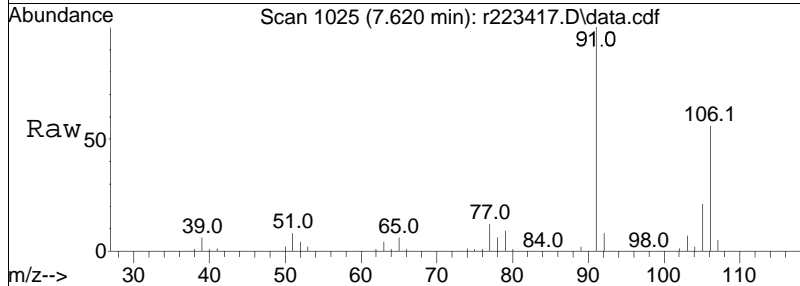
Tgt Ion:	91	106	Resp:	734630
Ion Ratio	100	37.8	Lower	Upper
			31.7	47.5

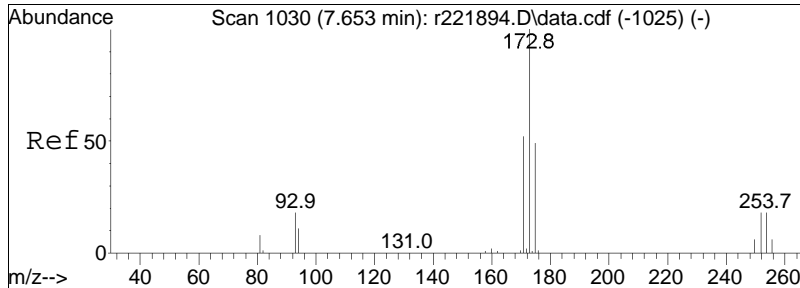




#83
 m+p-xylene
 Concen: 18.10 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

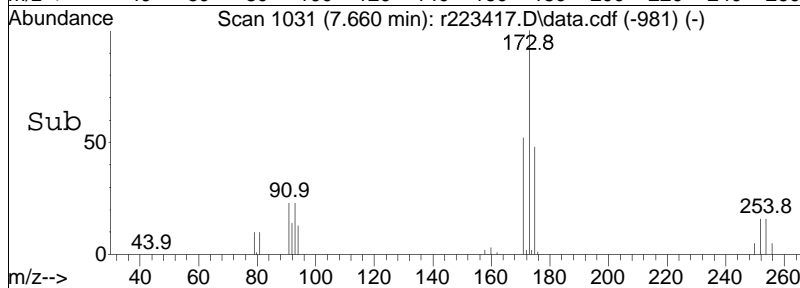
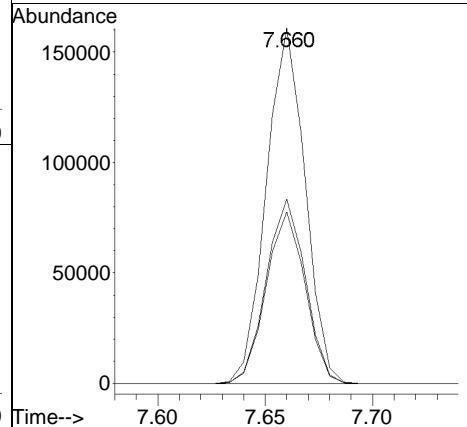
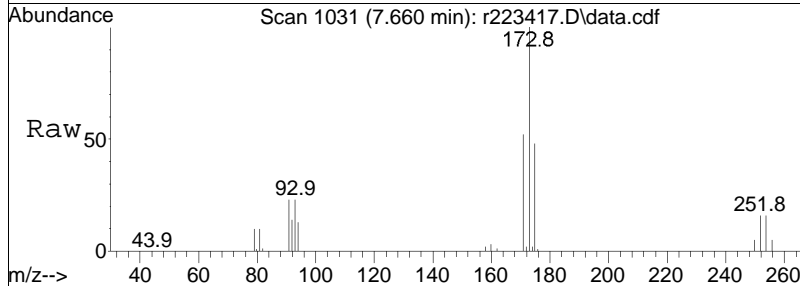
Tgt Ion: 91 Resp: 1222434
 Ion Ratio Lower Upper
 91 100
 106 56.3 47.4 71.2

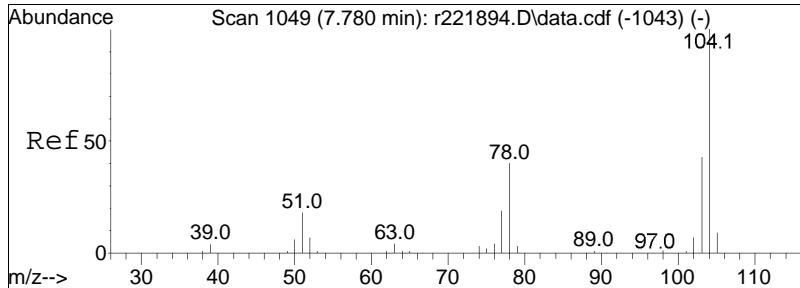




#84
 bromoform
 Concen: 8.63 ppbV
 RT: 7.660 min Scan# 1031
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

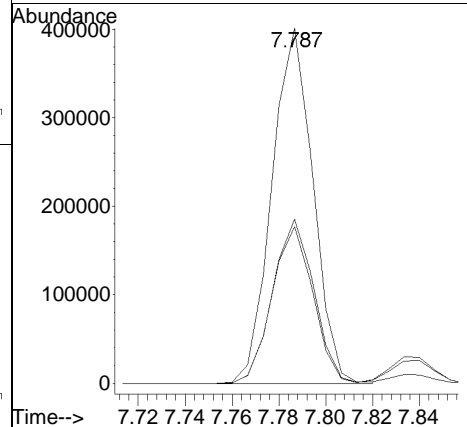
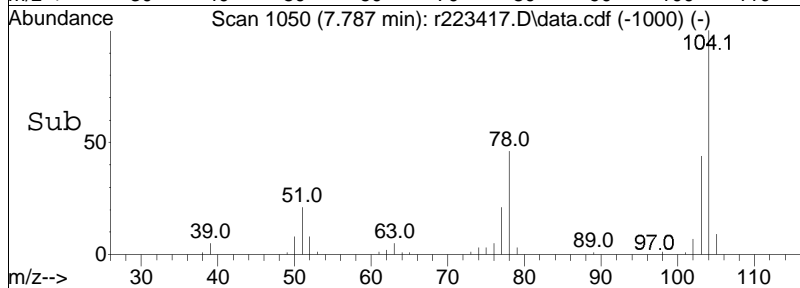
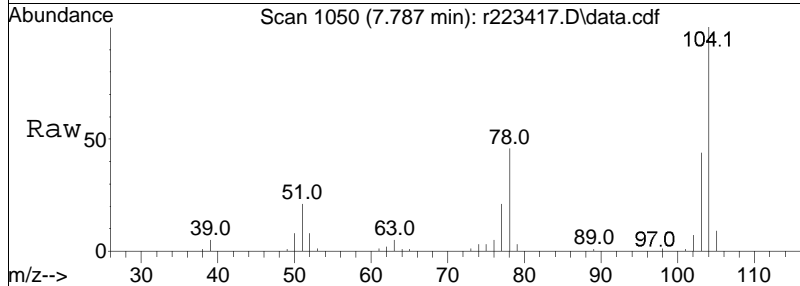
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.3	38.8	58.2
171	51.9	41.7	62.5

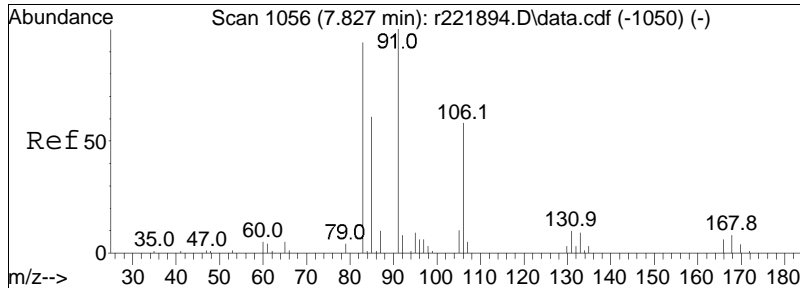




#85
 styrene
 Concen: 8.08 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

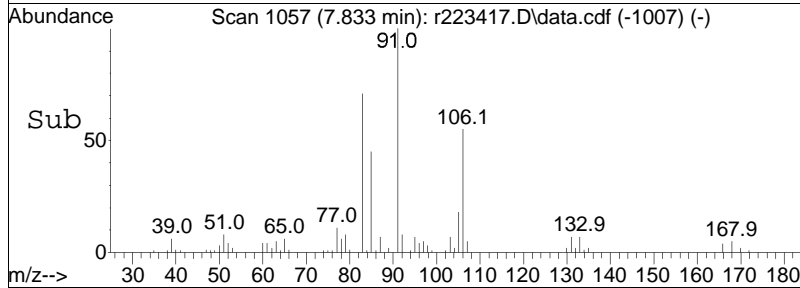
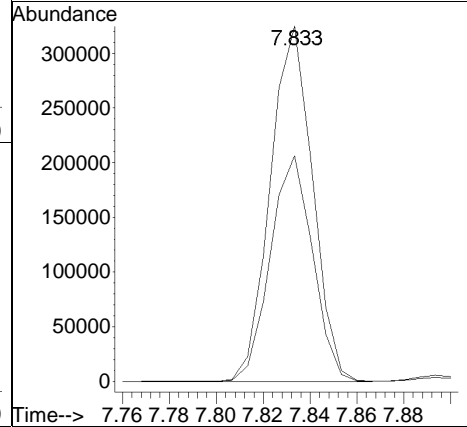
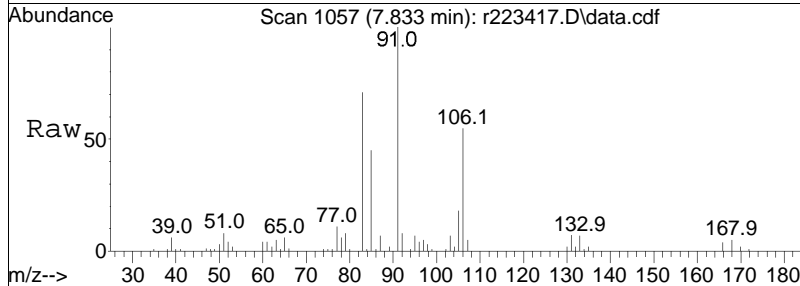
Tgt Ion	Resp	Lower	Upper
104	100		
103	44.1	34.3	51.5
78	46.2	32.3	48.5

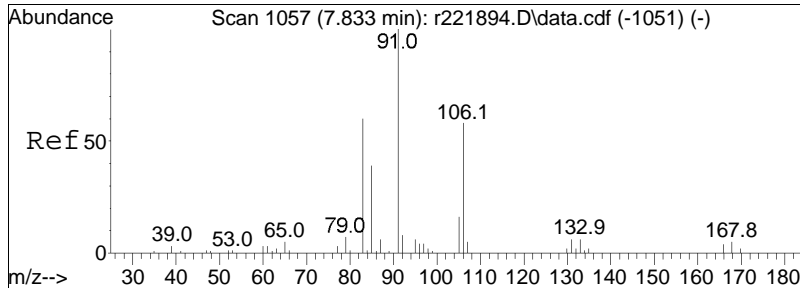




#86
 1,1,2,2-tetrachloroethane
 Concen: 9.00 ppbV
 RT: 7.833 min Scan# 1057
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

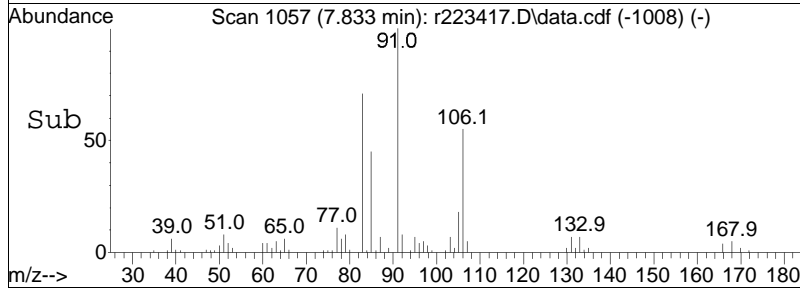
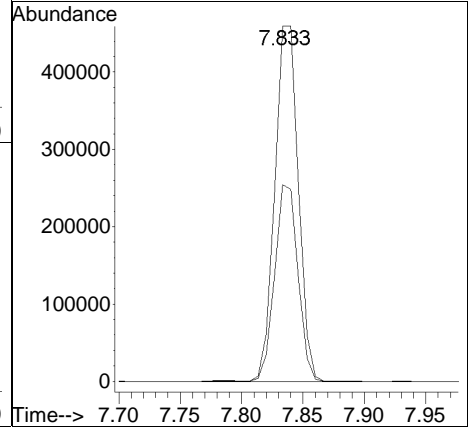
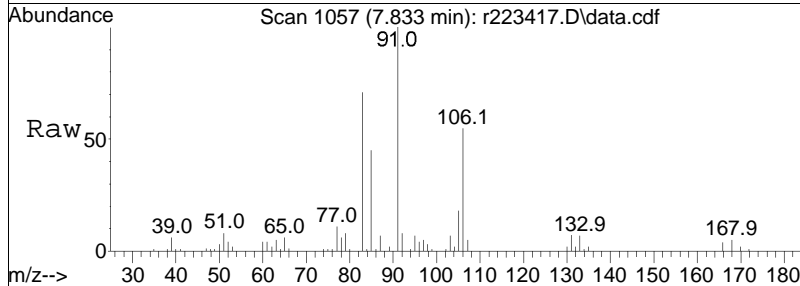
Tgt Ion: 83 Resp: 407614
 Ion Ratio Lower Upper
 83 100
 85 63.5 51.8 77.8

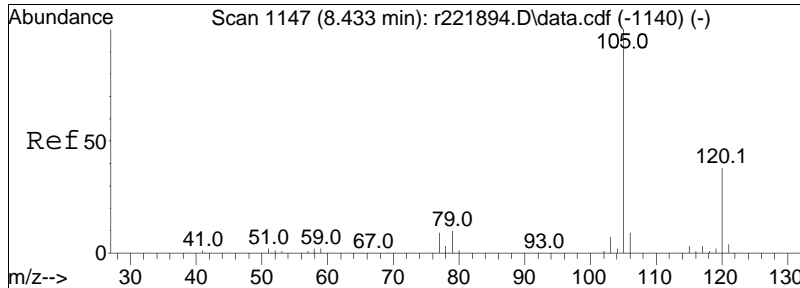




#87
 o-xylene
 Concen: 9.31 ppbV
 RT: 7.833 min Scan# 1057
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

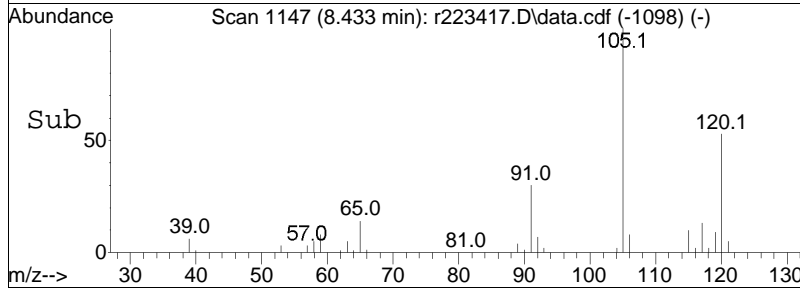
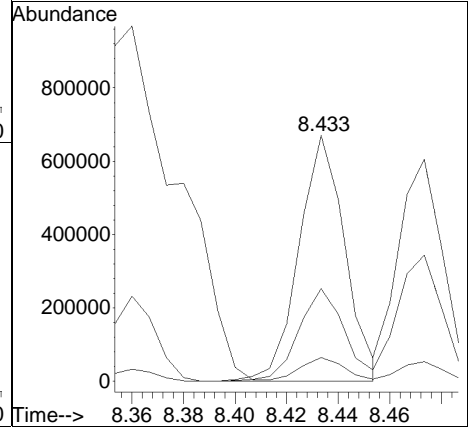
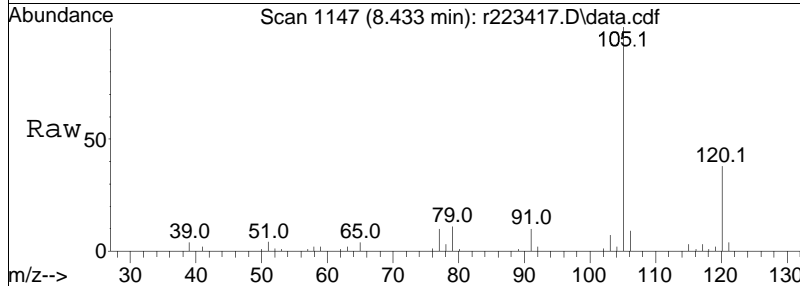
Tgt Ion	Resp	Ion Ratio	Lower	Upper
91	613940	100		
106		55.4	46.2	69.4

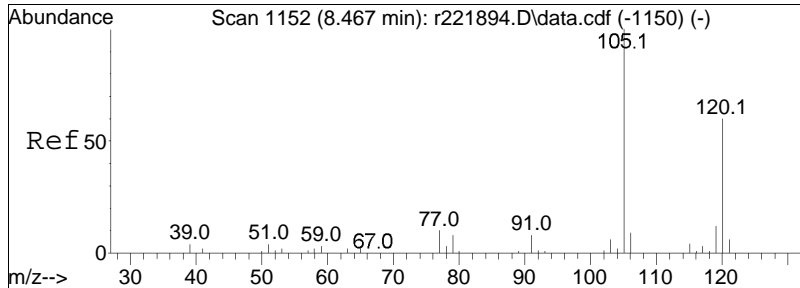




#96
 4-ethyl toluene
 Concen: 8.54 ppbV
 RT: 8.433 min Scan# 1147
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

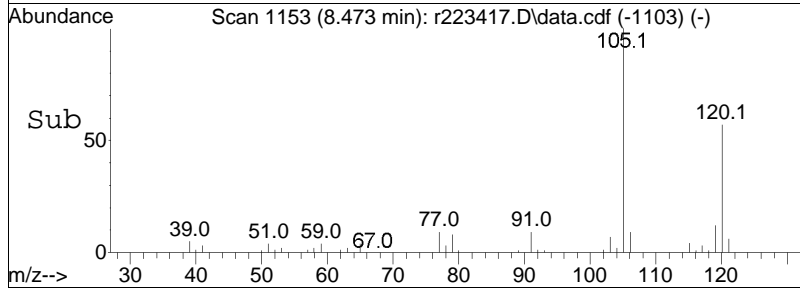
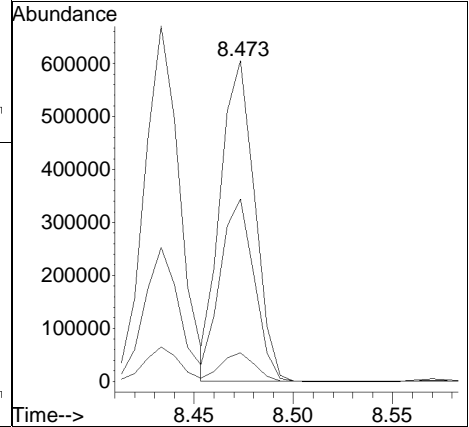
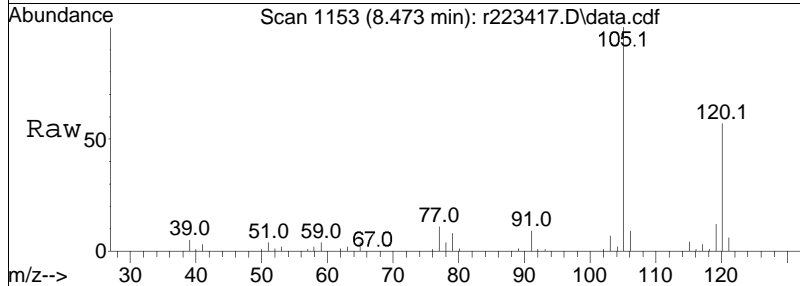
Tgt Ion	Resp	Lower	Upper
105	100		
120	37.7	30.7	46.1
91	9.7	7.2	10.8

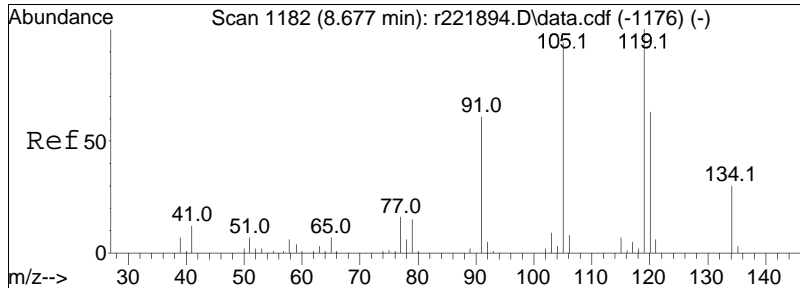




#97
 1,3,5-trimethylbenzene
 Concen: 9.09 ppbV
 RT: 8.473 min Scan# 1153
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

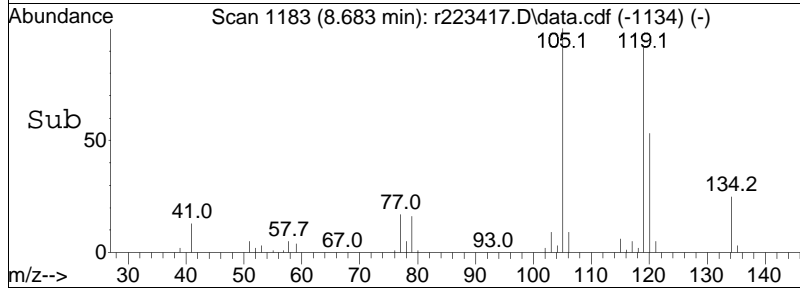
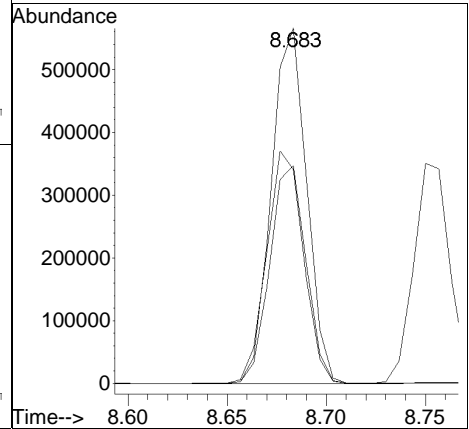
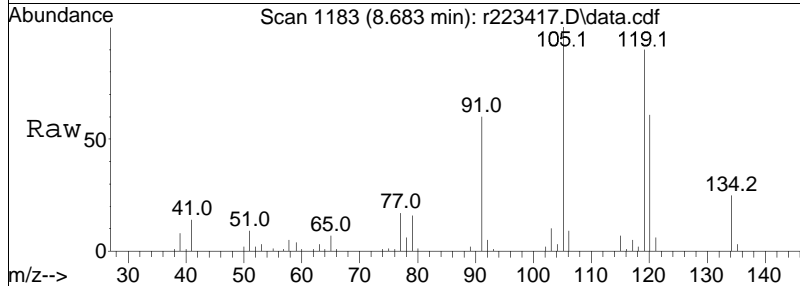
Tgt Ion	Resp	Lower	Upper
105	100		
120	56.9	47.8	71.8
91	8.9	6.6	10.0

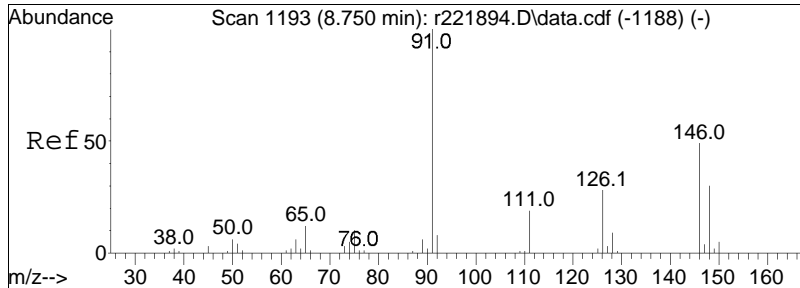




#99
 1,2,4-trimethylbenzene
 Concen: 9.21 ppbV
 RT: 8.683 min Scan# 1183
 Delta R.T. 0.007 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

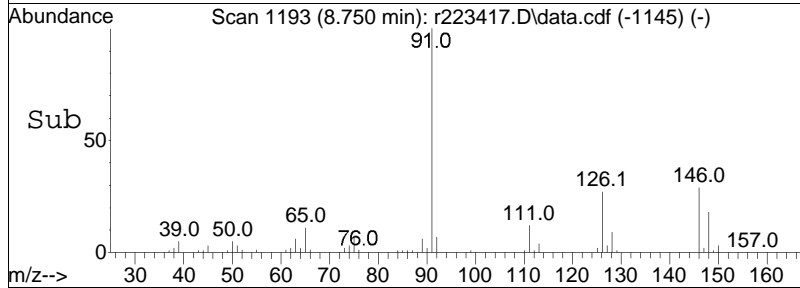
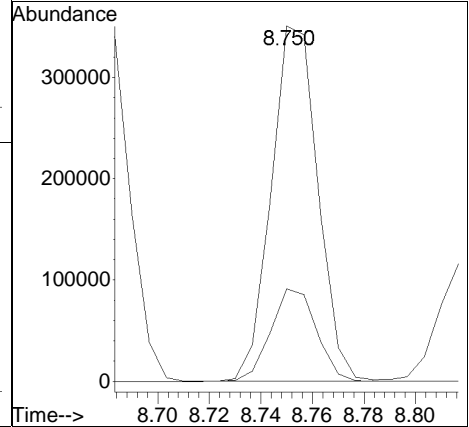
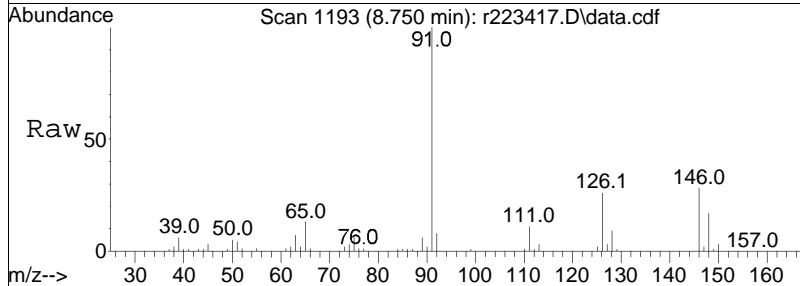
Tgt Ion	Resp	Lower	Upper
105	100		
120	61.3	53.8	80.8
91	60.2	52.2	78.2

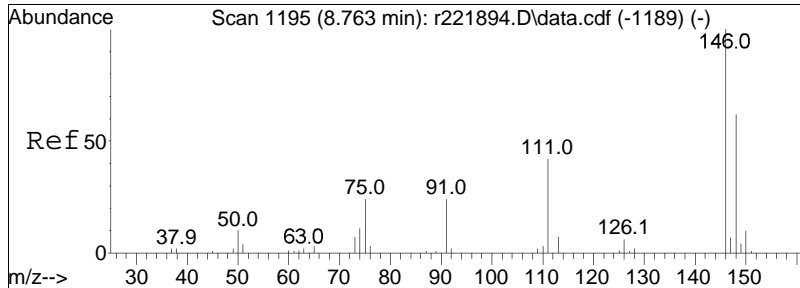




#101
 Benzyl Chloride
 Concen: 9.65 ppbV
 RT: 8.750 min Scan# 1193
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

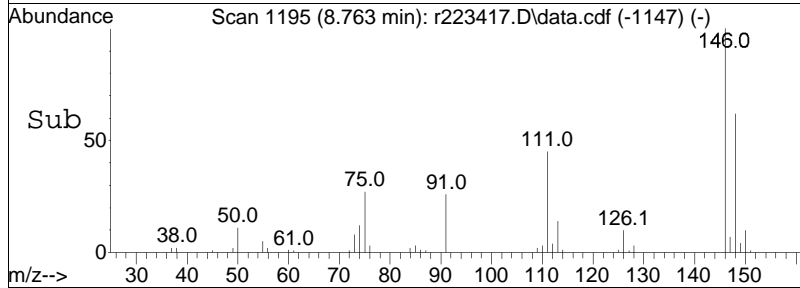
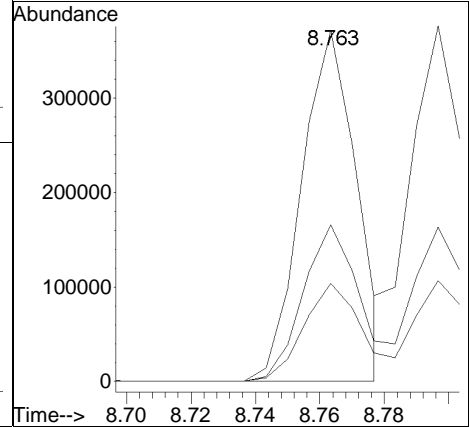
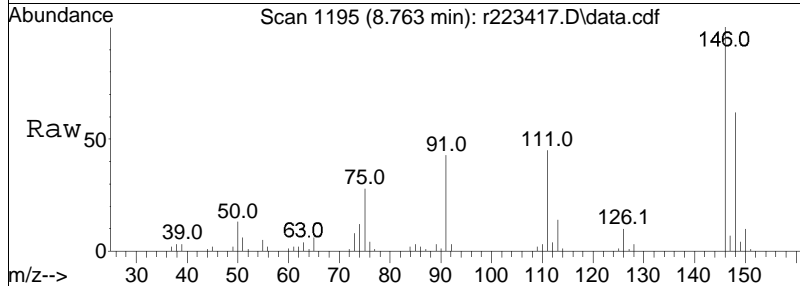
Tgt Ion:	Resp:	Lower	Upper
91	100		
126	26.1	22.4	33.6

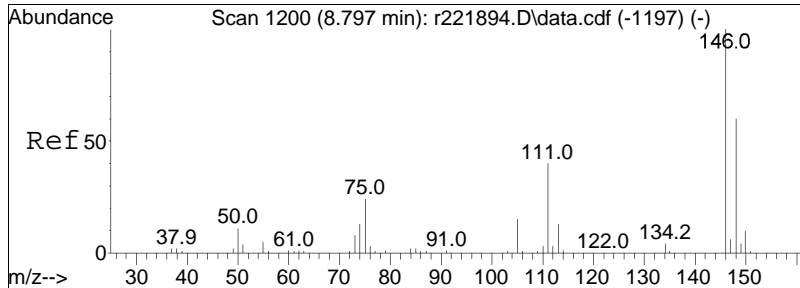




#102
 1,3-dichlorobenzene
 Concen: 7.87 ppbV
 RT: 8.763 min Scan# 1195
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

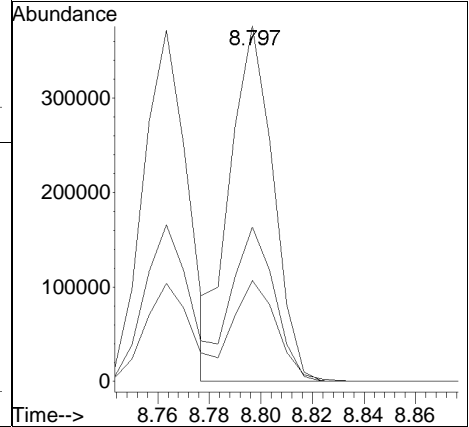
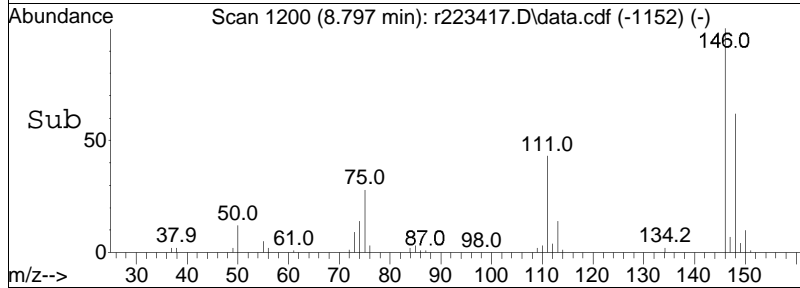
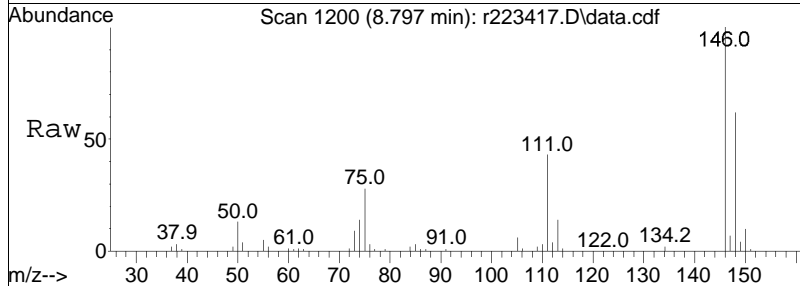
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.6	33.8	50.8
75	27.9	19.2	28.8

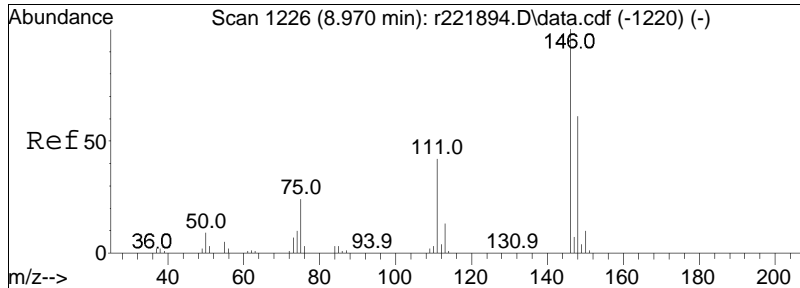




#103
 1,4-dichlorobenzene
 Concen: 8.16 ppbV
 RT: 8.797 min Scan# 1200
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

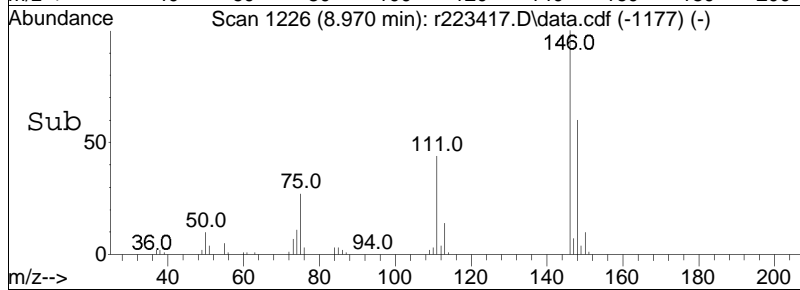
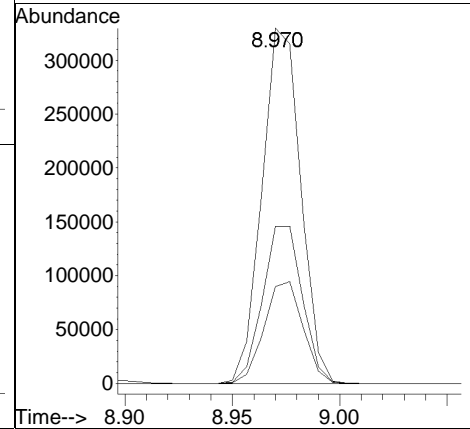
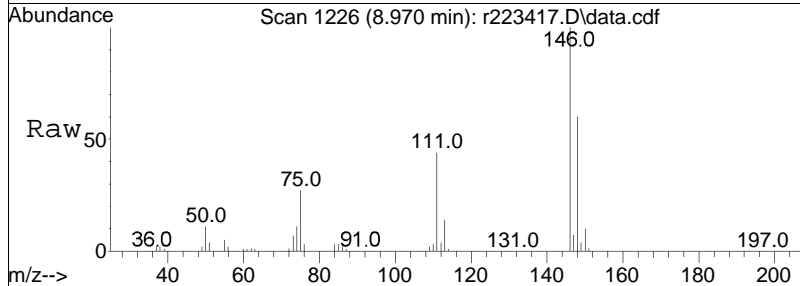
Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.4	32.6	49.0
75	28.4	19.7	29.5

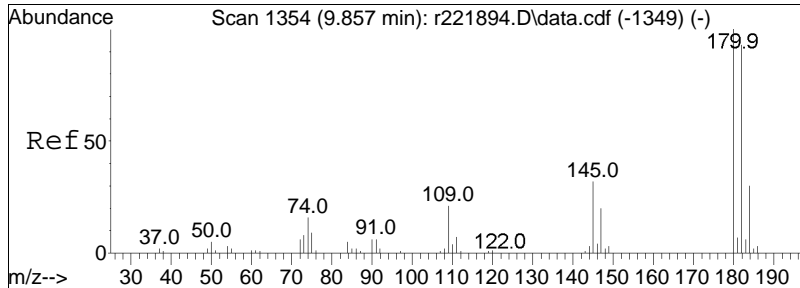




#107
 1,2-dichlorobenzene
 Concen: 7.88 ppbV
 RT: 8.970 min Scan# 1226
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

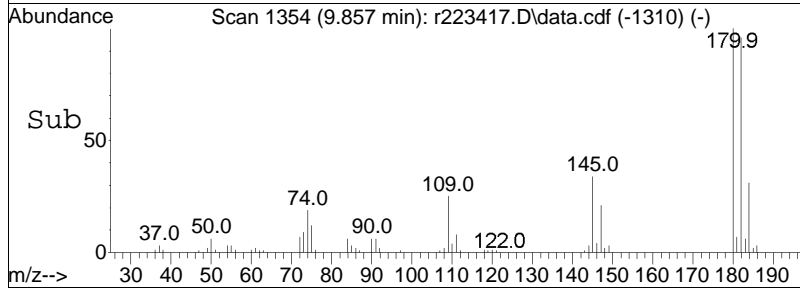
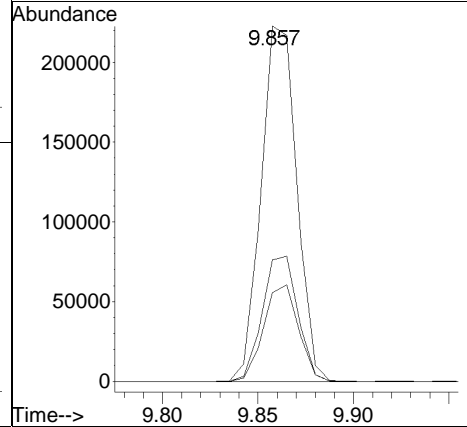
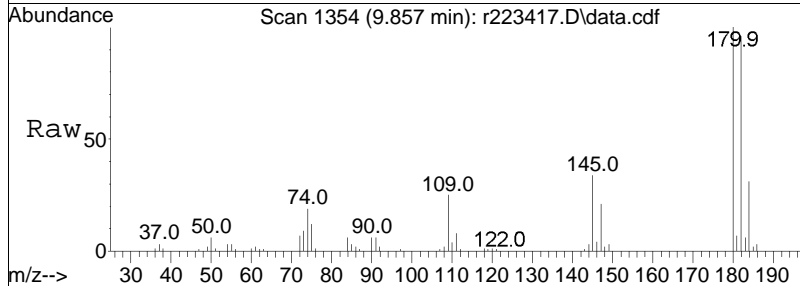
Tgt Ion	Ratio	Lower	Upper
146	100		
111	44.1	33.5	50.3
75	27.2	18.8	28.2

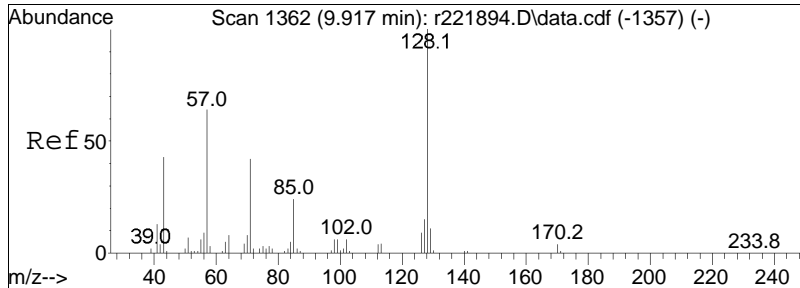




#115
 1,2,4-trichlorobenzene
 Concen: 7.00 ppbV
 RT: 9.857 min Scan# 1354
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

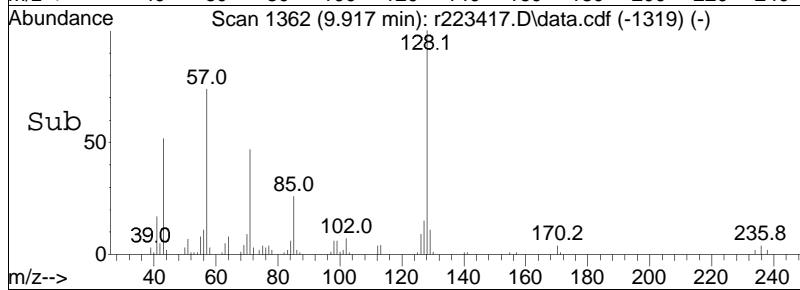
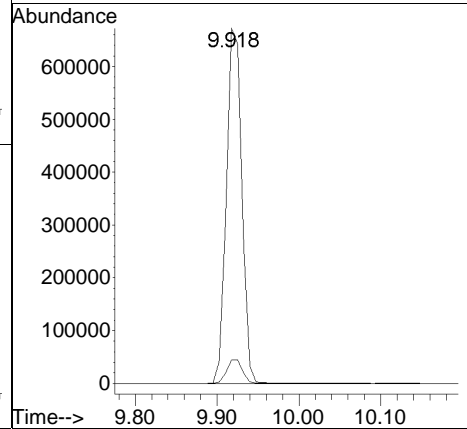
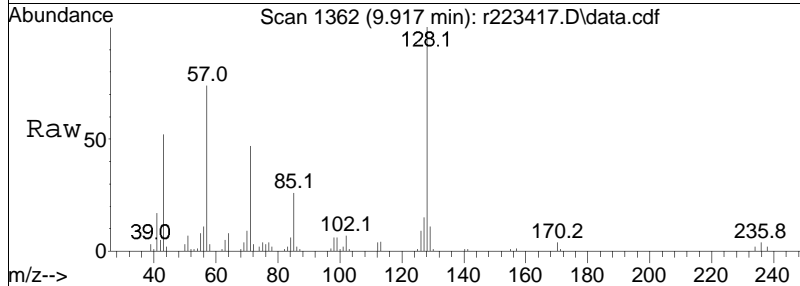
Tgt Ion	Ratio	Lower	Upper
180	100		
145	34.2	25.6	38.4
109	25.0	17.0	25.4

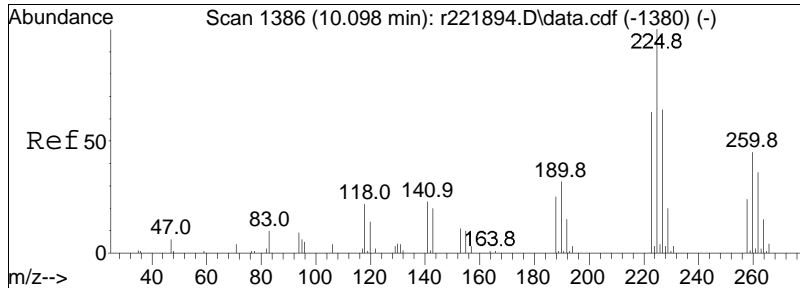




#116
 naphthalene
 Concen: 8.80 ppbV
 RT: 9.918 min Scan# 1362
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

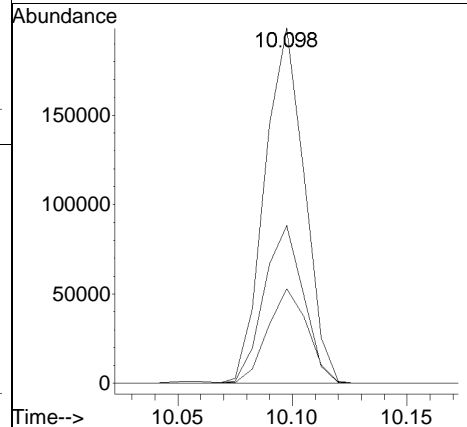
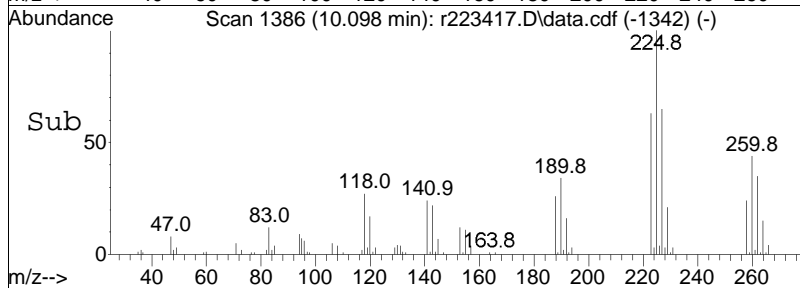
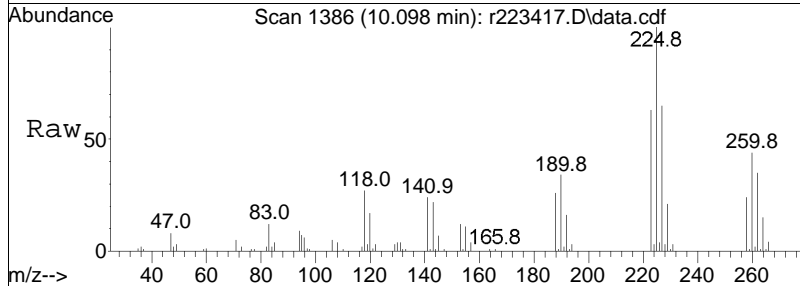
Tgt Ion	Resp	Lower	Upper
128	100		
102	6.6	4.7	7.1





#119
 hexachlorobutadiene
 Concen: 7.56 ppbV
 RT: 10.098 min Scan# 1386
 Delta R.T. 0.000 min
 Lab File: r223417.D
 Acq: 28 Mar 2024 1:50 PM

Tgt Ion	Ratio	Lower	Upper
225	100		
260	44.4	36.3	54.5
118	26.6	18.4	27.6



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-3,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	95	0.08
2	chlorodifluoromethane	10.000	8.299	17.0	75	0.05
3	propylene	10.000	9.343	6.6	81	0.05
4	propane	10.000	8.669	13.3	70	0.05
5	dichlorodifluoromethane	10.000	10.029	-0.3	80	0.06
6 C	chloromethane	10.000	9.526	4.7	75	0.06
7	Freon-114	10.000	10.656	-6.6	84	0.06
8 C	methanol	50.000	38.553	22.9	65	0.07
9 C	vinyl chloride	10.000	9.109	8.9	71	0.07
10 C	1,3-butadiene	10.000	10.155	-1.5	80	0.07
11	butane	10.000	9.058	9.4	74	0.07
13 C	bromomethane	10.000	9.467	5.3	73	0.07
14 C	chloroethane	10.000	9.140	8.6	73	0.07
15	ethanol	50.000	38.447	23.1	60	0.07
16	dichlorofluoromethane	10.000	8.139	18.6	71	0.07
17 C	vinyl bromide	10.000	8.999	10.0	70	0.08
18 C	acrolein	10.000	8.722	12.8	72	0.08
19	acetone	50.000	47.180	5.6	75	0.08
20 C	acetonitrile	10.000	8.309	16.9	70	0.08
21	trichlorofluoromethane	10.000	9.441	5.6	74	0.08
22	isopropyl alcohol	25.000	21.355	14.6	70	0.08
23 C	acrylonitrile	10.000	9.313	6.9	76	0.08
24	pentane	10.000	10.695	-7.0	85	0.08
25	ethyl ether	10.000	10.732	-7.3	85	0.08
26 C	1,1-dichloroethene	10.000	9.273	7.3	73	0.08
27	tertiary butyl alcohol	10.000	8.435	15.6	68	0.08
28 C	methylene chloride	10.000	9.334	6.7	75	0.08
29 C	3-chloropropene	10.000	9.657	3.4	76	0.08
30 C	carbon disulfide	10.000	8.623	13.8	67	0.08
31	Freon 113	10.000	9.274	7.3	74	0.08
32	trans-1,2-dichloroethene	10.000	8.782	12.2	68	0.08
33 C	1,1-dichloroethane	10.000	9.021	9.8	71	0.08
34 C	MTBE	10.000	9.570	4.3	74	0.08
35 C	vinyl acetate	10.000	8.269	17.3	65	0.08
36 C	2-butanone	10.000	9.603	4.0	76	0.08
37	cis-1,2-dichloroethene	10.000	9.265	7.3	72	0.08
38	Ethyl Acetate	10.000	8.815	11.9	70	0.08
39 C	chloroform	10.000	9.525	4.7	74	0.08
40	Tetrahydrofuran	10.000	9.384	6.2	74	0.08

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-3,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41	2,2-dichloropropane	10.000	9.511	4.9	74	0.08
42 C	1,2-dichloroethane	10.000	9.478	5.2	75	0.08
43 I	1,4-difluorobenzene	10.000	10.000	0.0	93	0.08
44 C	hexane	10.000	8.925	10.7	68	0.08
45	diisopropyl ether	10.000	8.340	16.6	64	0.08
46	tert-butyl ethyl ether	10.000	8.492	15.1	65	0.08
48 C	1,1,1-trichloroethane	10.000	9.766	2.3	73	0.08
49	1,1-dichloropropene	10.000	10.139	-1.4	77	0.09
50 C	benzene	10.000	9.131	8.7	70	0.08
52 C	carbon tetrachloride	10.000	10.272	-2.7	76	0.09
53	cyclohexane	10.000	9.027	9.7	71	0.08
54	tert-amyl methyl ether	10.000	9.189	8.1	70	0.08
55	dibromomethane	10.000	9.005	9.9	70	0.08
56 C	1,2-dichloropropane	10.000	8.986	10.1	70	0.08
57	bromodichloromethane	10.000	9.961	0.4	75	0.08
58 C	1,4-dioxane	10.000	9.662	3.4	74	0.08
59 C	trichloroethene	10.000	8.827	11.7	68	0.08
60 C	2,2,4-trimethylpentane	10.000	9.310	6.9	70	0.08
61	methyl methacrylate	10.000	10.907	-9.1	83	0.07
62	heptane	10.000	10.083	-0.8	78	0.07
63 C	cis-1,3-dichloropropene	10.000	10.046	-0.5	73	0.08
64 C	4-methyl-2-pentanone	10.000	10.210	-2.1	78	0.08
65	trans-1,3-dichloropropene	10.000	10.344	-3.4	74	0.07
66 C	1,1,2-trichloroethane	10.000	9.333	6.7	72	0.08
67 I	chlorobenzene-D5	10.000	10.000	0.0	94	0.06
68 C	toluene	10.000	8.678	13.2	68	0.07
71	1,3-dichloropropane	10.000	9.288	7.1	73	0.07
72	2-hexanone	10.000	10.718	-7.2	80	0.07
74	dibromochloromethane	10.000	9.725	2.8	73	0.07
75 C	1,2-dibromoethane	10.000	9.611	3.9	74	0.06
76	butyl acetate	10.000	9.355	6.4	71	0.07
77	octane	10.000	8.334	16.7	67	0.06
78 C	tetrachloroethene	10.000	8.773	12.3	67	0.06
79	1,1,1,2-tetrachloroethane	10.000	9.112	8.9	70	0.07
80 C	chlorobenzene	10.000	9.035	9.6	70	0.07
81 C	ethylbenzene	10.000	9.022	9.8	69	0.06
83 C	m+p-xylene	20.000	18.513	7.4	71	0.06

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-3,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84 C	bromoform	10.000	9.931	0.7	72	0.06
85 C	styrene	10.000	9.690	3.1	73	0.06
86 C	1,1,2,2-tetrachloroethane	10.000	9.365	6.3	70	0.06
87 C	o-xylene	10.000	9.588	4.1	72	0.06
88	1,2,3-trichloropropane	10.000	9.543	4.6	74	0.06
89	nonane	10.000	9.449	5.5	74	0.05
91 C	isopropylbenzene	10.000	9.778	2.2	76	0.05
92	bromobenzene	10.000	9.469	5.3	74	0.06
93	2-chlorotoluene	10.000	8.744	12.6	68	0.06
94	n-propylbenzene	10.000	8.813	11.9	68	0.06
95	4-chlorotoluene	10.000	8.795	12.1	68	0.06
96	4-ethyl toluene	10.000	9.617	3.8	73	0.05
97	1,3,5-trimethylbenzene	10.000	10.121	-1.2	76	0.06
98	tert-butylbenzene	10.000	9.429	5.7	71	0.05
99	1,2,4-trimethylbenzene	10.000	9.990	0.1	76	0.05
100	decane	10.000	9.000	10.0	69	0.05
101 C	Benzyl Chloride	10.000	8.849	11.5	62	0.05
102	1,3-dichlorobenzene	10.000	9.655	3.5	73	0.05
103 C	1,4-dichlorobenzene	10.000	9.644	3.6	74	0.06
104	sec-butylbenzene	10.000	9.566	4.3	74	0.05
106	p-isopropyltoluene	10.000	8.709	12.9	68	0.06
107	1,2-dichlorobenzene	10.000	9.605	3.9	72	0.06
108	n-butylbenzene	10.000	9.634	3.7	72	0.05
111 C	1,2-dibromo-3-chloropropane	10.000	9.839	1.6	72	0.05
112	undecane	10.000	9.224	7.8	68	0.05
114	dodecane	10.000	9.401	6.0	64	0.06
115 C	1,2,4-trichlorobenzene	10.000	8.381	16.2	57	0.06
116	naphthalene	10.000	9.130	8.7	64	0.06
117	1,2,3-trichlorobenzene	10.000	9.145	8.6	65	0.06
119 C	hexachlorobutadiene	10.000	8.904	11.0	64	0.06

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-3,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.225	49	358796	10.000	ppbV	0.08
Standard Area =	358796		Recovery =	100.00%		
43) 1,4-difluorobenzene	11.453	114	735074	10.000	ppbV	0.08
Standard Area =	735074		Recovery =	100.00%		
67) chlorobenzene-D5	16.125	54	162298	10.000	ppbV	0.06
Standard Area =	162298		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.066	85	398934	10.029	ppbV	100
6) chloromethane	4.234	50	213494	9.526	ppbV	100
7) Freon-114	4.342	85	487989	10.656	ppbV	92
9) vinyl chloride	4.468	62	221595	9.109	ppbV	100
10) 1,3-butadiene	4.612	54	202167	10.155	ppbV	92
13) bromomethane	4.900	94	160200	9.467	ppbV	99
14) chloroethane	5.098	64	105063	9.140	ppbV	99
15) ethanol	5.230	31	854669	38.447	ppbV	99
17) vinyl bromide	5.480	106	135608	8.999	ppbV	98
19) acetone	5.750	43	1324607	47.180	ppbV	99
21) trichlorofluoromethane	5.947	101	265986	9.441	ppbV	98
22) isopropyl alcohol	6.037	45	813747	21.355	ppbV	99
26) 1,1-dichloroethene	6.654	61	287135	9.273	ppbV	98
27) tertiary butyl alcohol	6.714	59	332562	8.435	ppbV	92
28) methylene chloride	6.798	49	259421	9.334	ppbV	93
29) 3-chloropropene	6.930	41	299124	9.657	ppbV	99
30) carbon disulfide	7.104	76	484786	8.623	ppbV	97
31) Freon 113	7.098	101	294262	9.274	ppbV	97
32) trans-1,2-dichloroethene	7.858	61	262341	8.782	ppbV	100
33) 1,1-dichloroethane	8.083	63	337764	9.021	ppbV	99
34) MTBE	8.150	73	472970	9.570	ppbV	97
36) 2-butanone	8.525	43	474500	9.603	ppbV	99
37) cis-1,2-dichloroethene	9.033	61	264375	9.265	ppbV	99
38) Ethyl Acetate	9.300	61	66690	8.815	ppbV	83
39) chloroform	9.375	83	364773	9.525	ppbV	99
40) Tetrahydrofuran	9.817	42	277664	9.384	ppbV	100
42) 1,2-dichloroethane	10.217	62	240666	9.478	ppbV	99
44) hexane	9.292	57	350548	8.925	ppbV	78

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436789.D
 Acq On : 29 Mar 2024 1:29 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-3,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	10.508	97	281071	9.766	ppbV	99
50) benzene	11.033	78	618623	9.131	ppbV	99
52) carbon tetrachloride	11.207	117	272656	10.272	ppbV	96
53) cyclohexane	11.353	56	374471	9.027	ppbV	96
56) 1,2-dichloropropane	11.980	63	220018	8.986	ppbV	98
57) bromodichloromethane	12.207	83	371544	9.961	ppbV	97
58) 1,4-dioxane	12.247	88	137652	9.662	ppbV	98
59) trichloroethene	12.253	130	197975	8.827	ppbV	95
60) 2,2,4-trimethylpentane	12.307	57	1169712	9.310	ppbV	95
62) heptane	12.613	43	497057	10.083	ppbV	94
63) cis-1,3-dichloropropene	13.267	75	336216	10.046	ppbV	100
64) 4-methyl-2-pentanone	13.300	43	592865	10.210	ppbV	95
65) trans-1,3-dichloropropene	13.883	75	277074	10.344	ppbV	97
66) 1,1,2-trichloroethane	14.083	97	204700	9.333	ppbV	98
68) toluene	14.383	91	647853	8.678	ppbV	98
72) 2-hexanone	14.658	43	561973	10.718	ppbV	89
74) dibromochloromethane	14.825	129	288189	9.725	ppbV	97
75) 1,2-dibromoethane	15.067	107	324414	9.611	ppbV	95
78) tetrachloroethene	15.517	166	226988	8.773	ppbV	97
80) chlorobenzene	16.167	112	506170	9.035	ppbV	97
81) ethylbenzene	16.508	91	830413	9.022	ppbV	98
83) m+p-xylene	16.667	91	1387432	18.513	ppbV	98
84) bromoform	16.742	173	235083	9.931	ppbV	97
85) styrene	16.992	104	531949	9.690	ppbV	98
86) 1,1,2,2-tetrachloroethane	17.083	83	541088	9.365	ppbV	100
87) o-xylene	17.083	91	724366	9.588	ppbV	97
96) 4-ethyl toluene	18.142	105	947560	9.617	ppbV	97
97) 1,3,5-trimethylbenzene	18.208	105	943763	10.121	ppbV	97
99) 1,2,4-trimethylbenzene	18.550	105	867196	9.990	ppbV	98
101) Benzyl Chloride	18.667	91	467149	8.849	ppbV	99
102) 1,3-dichlorobenzene	18.683	146	487561	9.655	ppbV	99
103) 1,4-dichlorobenzene	18.742	146	484130M3	9.644	ppbV	
107) 1,2-dichlorobenzene	19.025	146	451757	9.605	ppbV	98
115) 1,2,4-trichlorobenzene	20.525	180	288215	8.381	ppbV #	91
116) naphthalene	20.642	128	871798	9.130	ppbV	99
119) hexachlorobutadiene	20.967	225	281686	8.904	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436789.D
Acq On : 29 Mar 2024 1:29 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-3,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

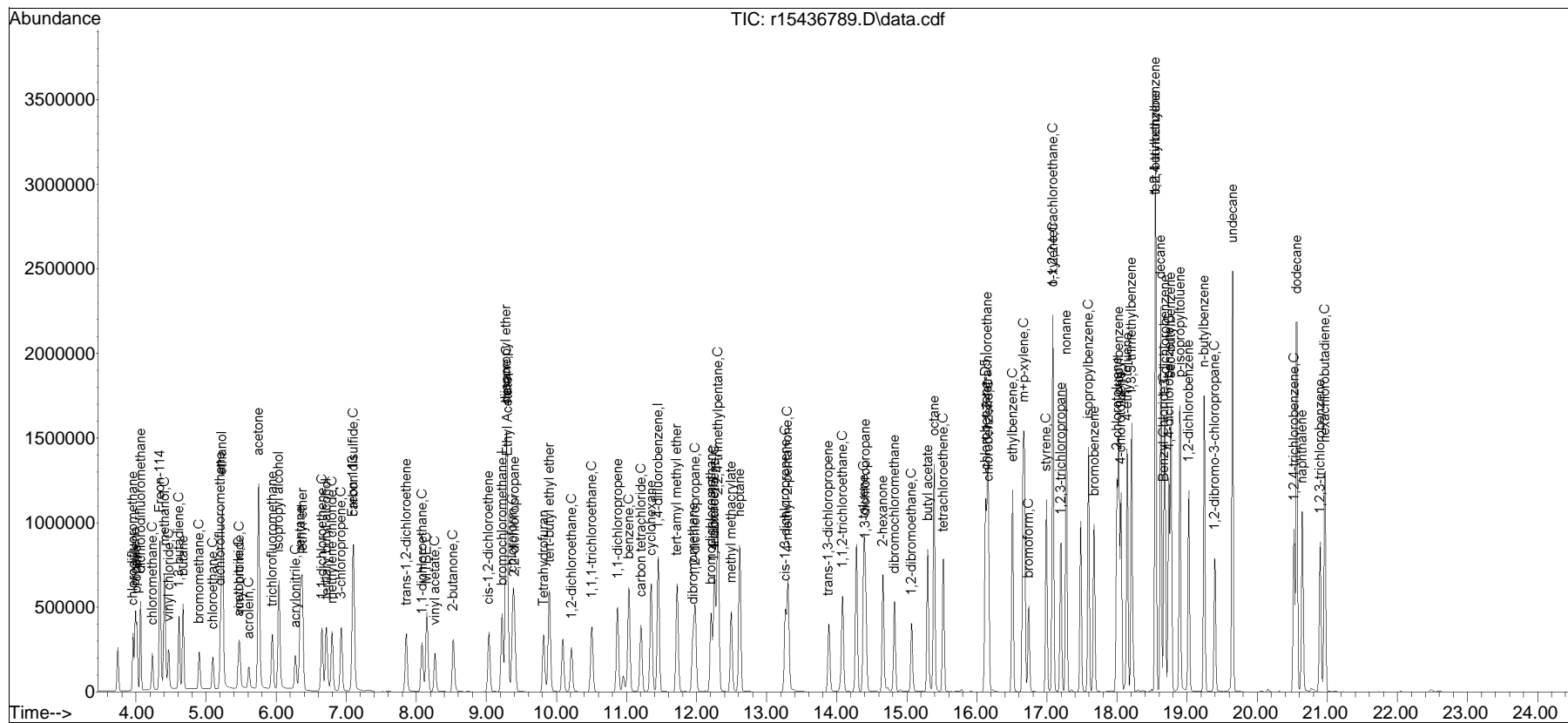
CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
Sub List : Default-LCS-AP2 - All compounds listed

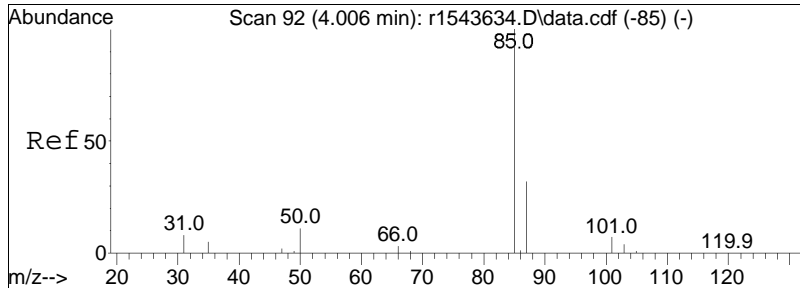
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : Default-LCS-AP2 - All compounds listed9T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436789.D
Acq On : 29 Mar 2024 1:29 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-3,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

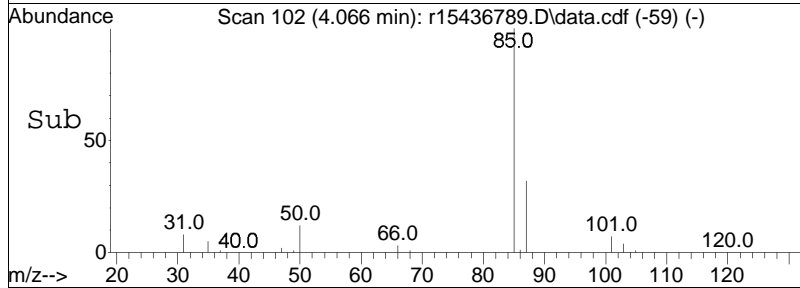
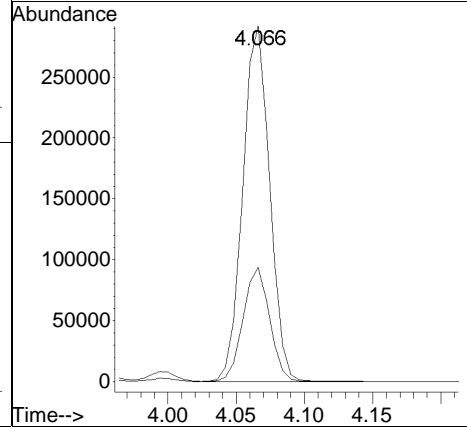
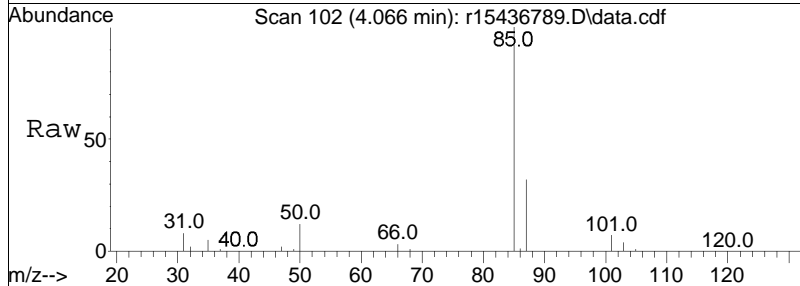
Quant Time: Mar 29 14:50:32 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

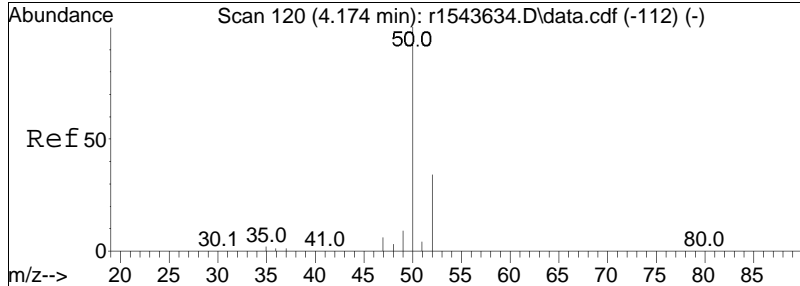




#5
 dichlorodifluoromethane
 Concen: 10.03 ppbV
 RT: 4.066 min Scan# 102
 Delta R.T. 0.060 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

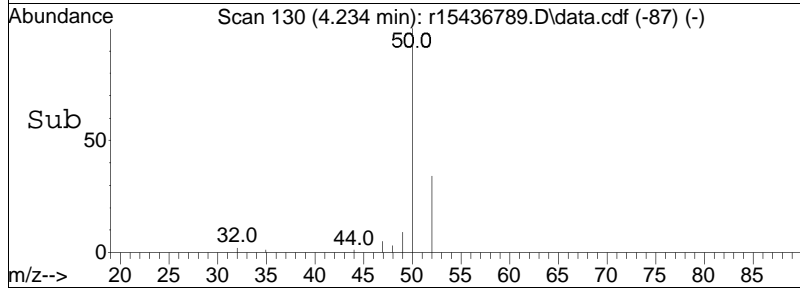
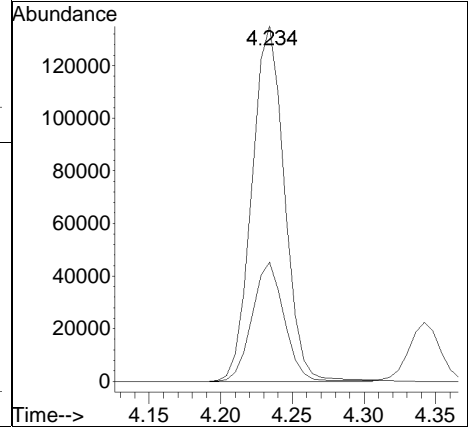
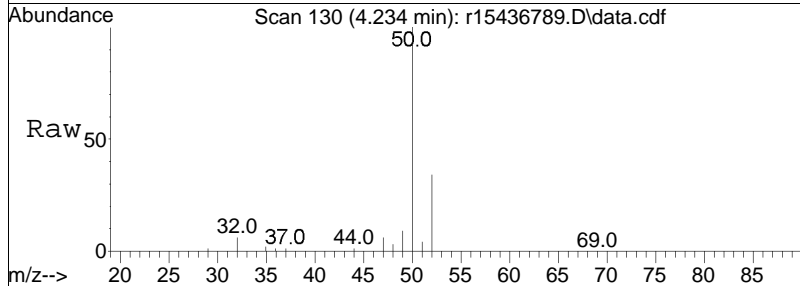
Tgt Ion: 85 Resp: 398934
 Ion Ratio Lower Upper
 85 100
 87 32.1 25.5 38.3

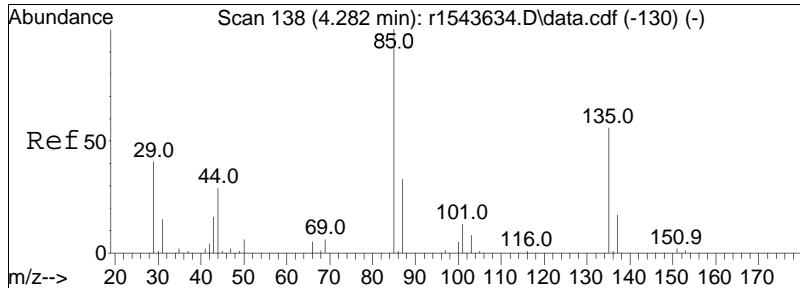




#6
 chloromethane
 Concen: 9.53 ppbV
 RT: 4.234 min Scan# 130
 Delta R.T. 0.060 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

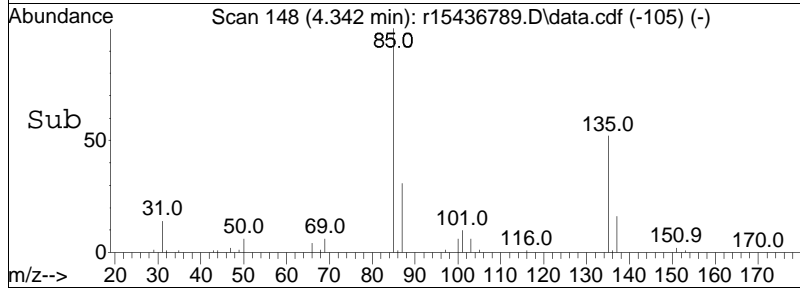
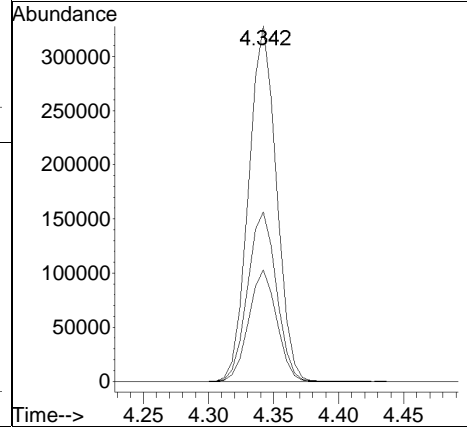
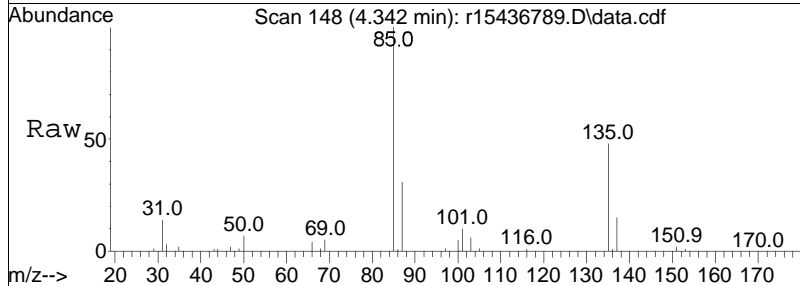
Tgt Ion	Resp	Lower	Upper
50	100		
52	33.6	27.0	40.4

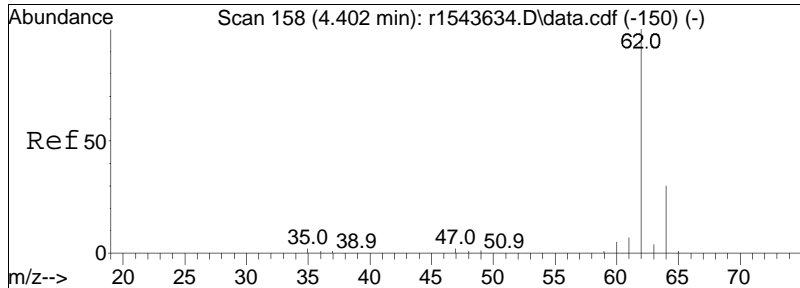




#7
 Freon-114
 Concen: 10.66 ppbV
 RT: 4.342 min Scan# 148
 Delta R.T. 0.060 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

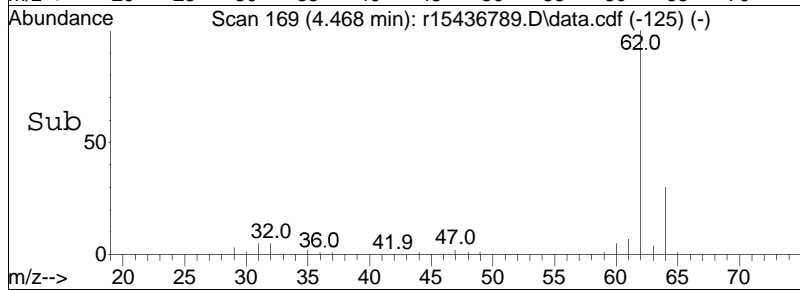
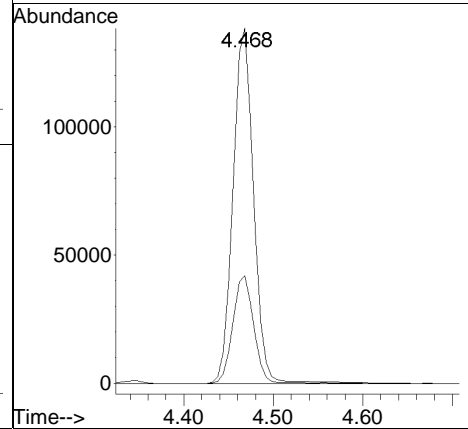
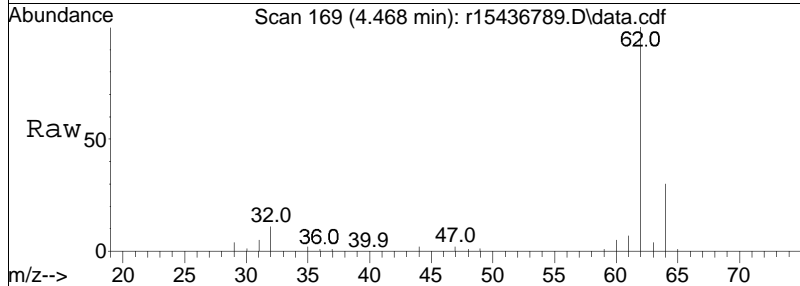
Tgt Ion:	85	Resp:	487989
Ion Ratio	Lower	Upper	
85	100		
87	31.4	26.2	39.2
135	47.7	44.4	66.6

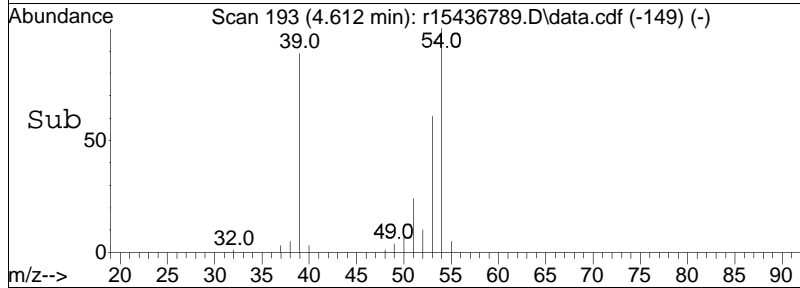
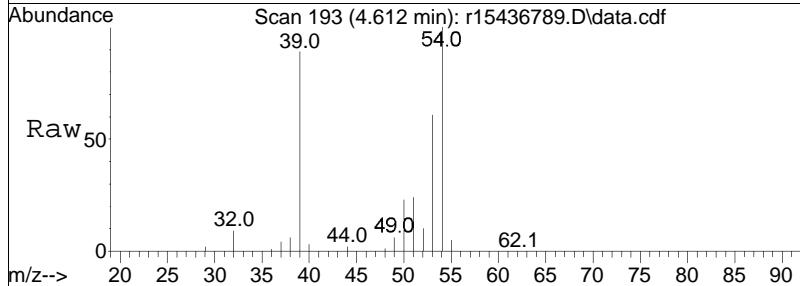
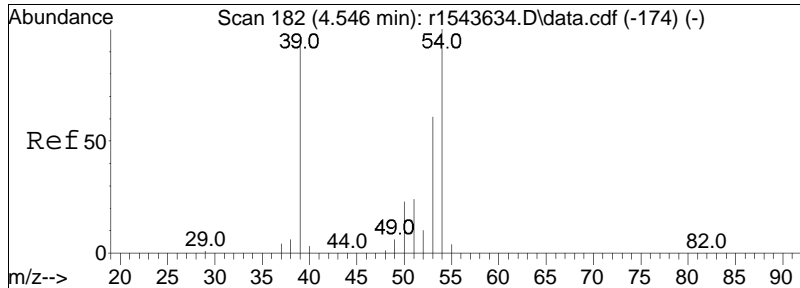




#9
 vinyl chloride
 Concen: 9.11 ppbV
 RT: 4.468 min Scan# 169
 Delta R.T. 0.066 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

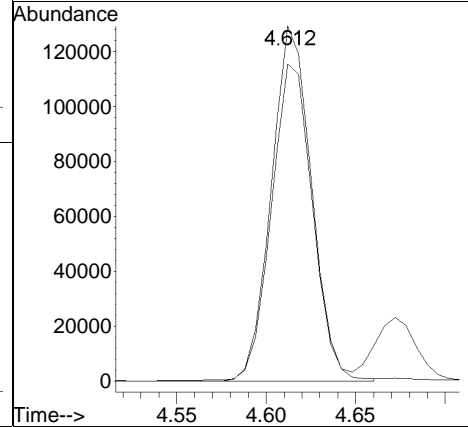
Tgt Ion:	Resp:	Lower	Upper
62	100		
64	30.4	24.3	36.5

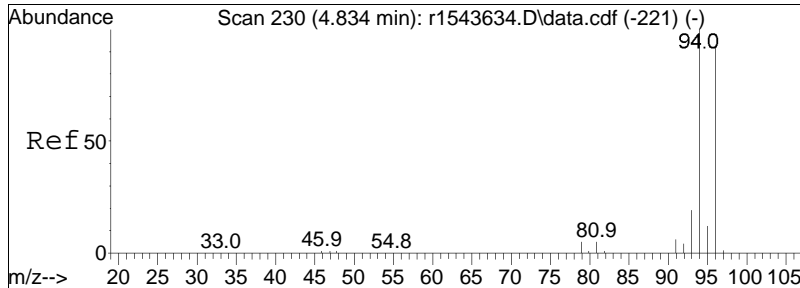




#10
 1,3-butadiene
 Concen: 10.16 ppbV
 RT: 4.612 min Scan# 193
 Delta R.T. 0.066 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

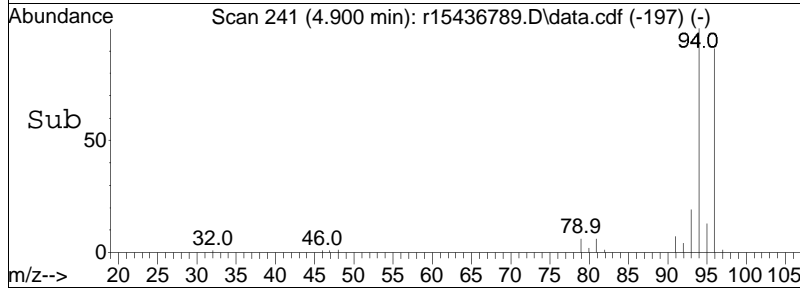
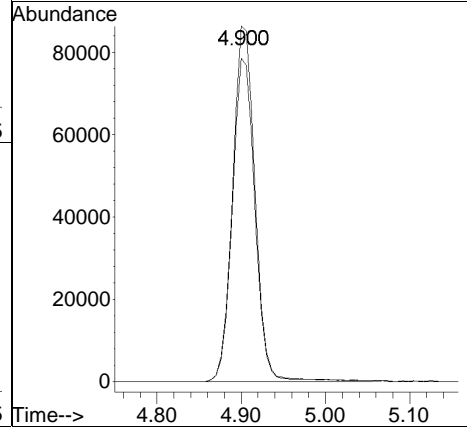
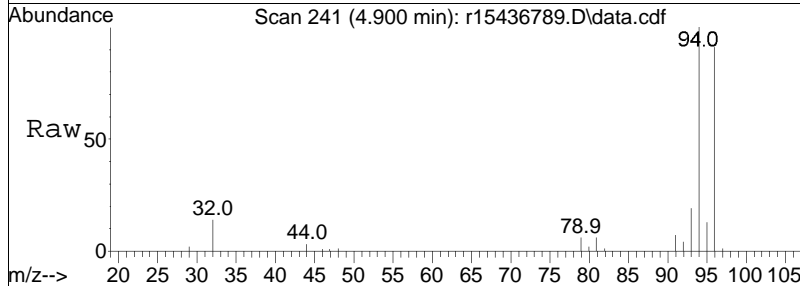
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
54	100		
39	89.3	78.2	117.2

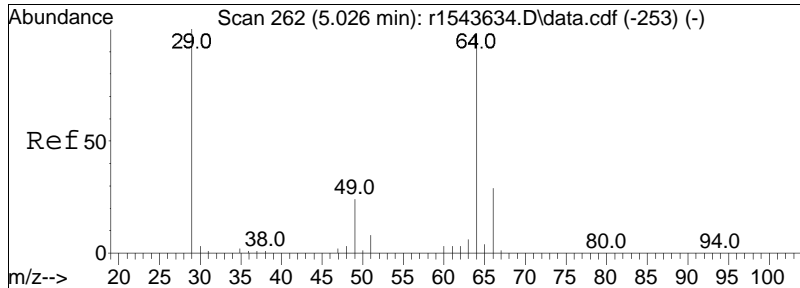




#13
 bromomethane
 Concen: 9.47 ppbV
 RT: 4.900 min Scan# 241
 Delta R.T. 0.066 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

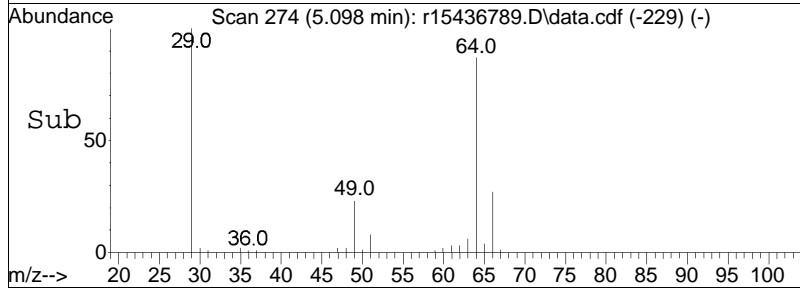
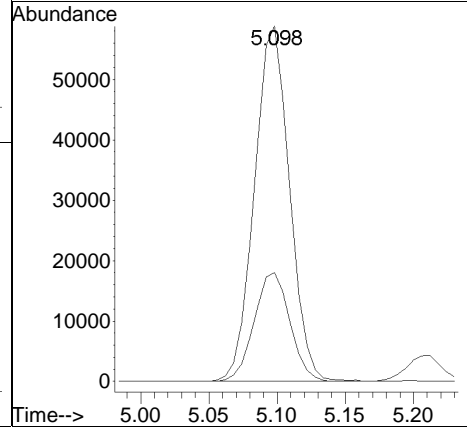
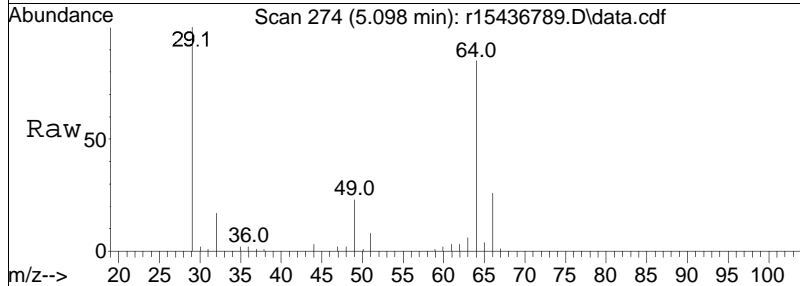
Tgt Ion: 94 Resp: 160200
 Ion Ratio Lower Upper
 94 100
 96 90.9 73.3 109.9

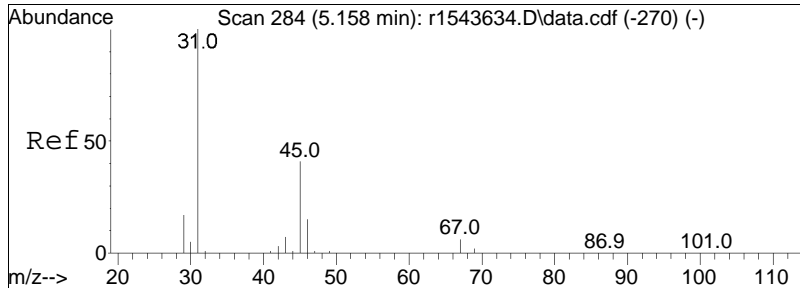




#14
 chloroethane
 Concen: 9.14 ppbV
 RT: 5.098 min Scan# 274
 Delta R.T. 0.072 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

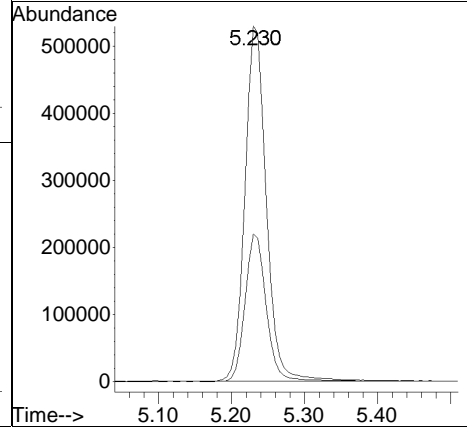
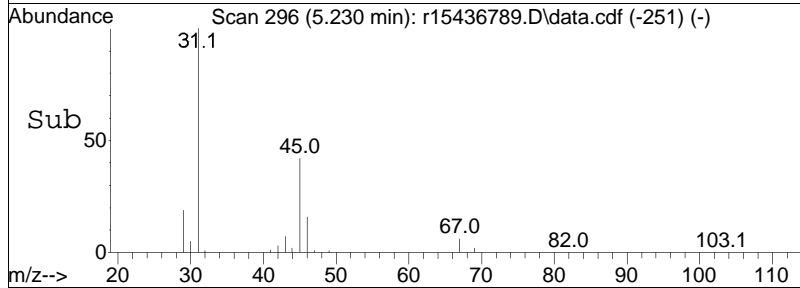
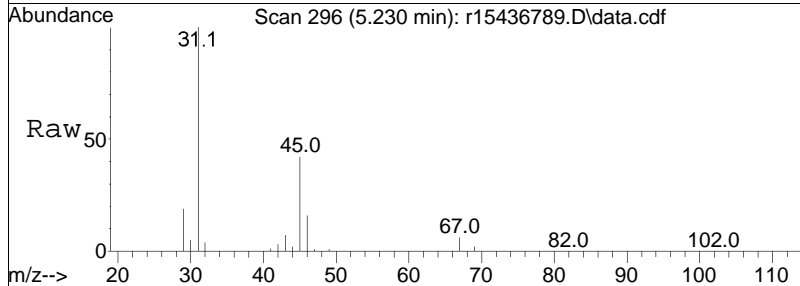
Tgt Ion: 64 Resp: 105063
 Ion Ratio Lower Upper
 64 100
 66 30.6 24.2 36.2

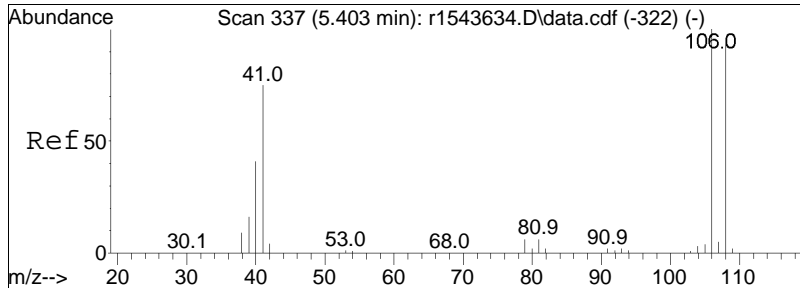




#15
 ethanol
 Concen: 38.45 ppbV
 RT: 5.230 min Scan# 296
 Delta R.T. 0.072 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

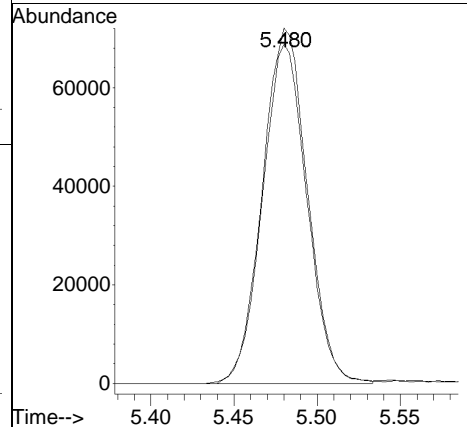
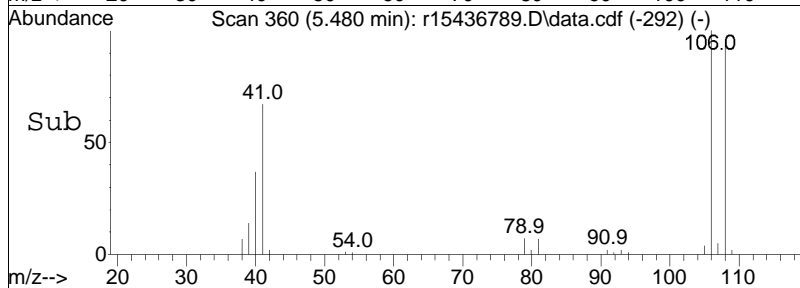
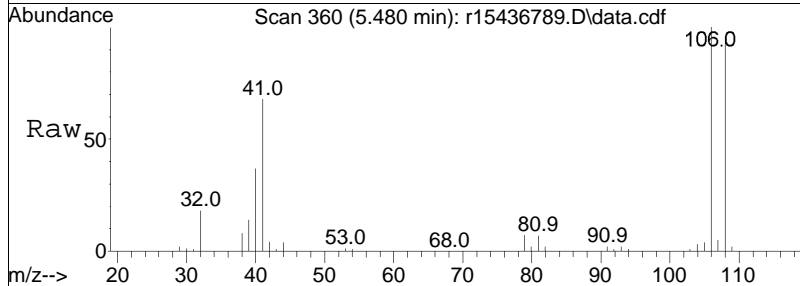
Tgt Ion: 31 Resp: 854669
 Ion Ratio Lower Upper
 31 100
 45 41.5 33.0 49.4

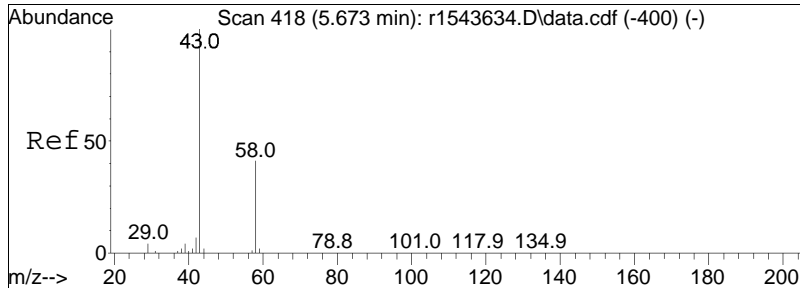




#17
 vinyl bromide
 Concen: 9.00 ppbV
 RT: 5.480 min Scan# 360
 Delta R.T. 0.077 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

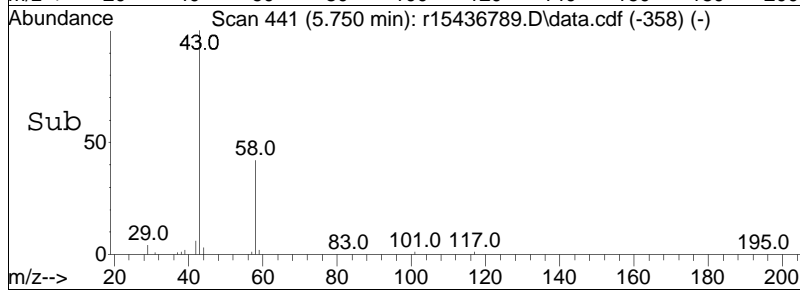
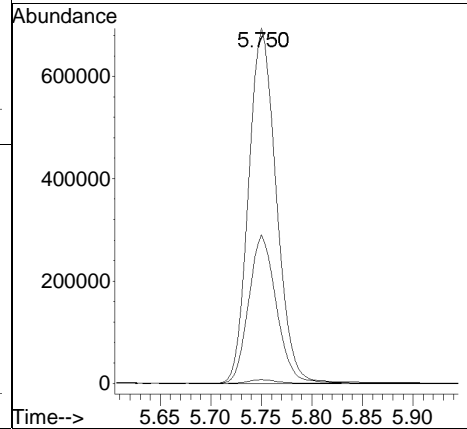
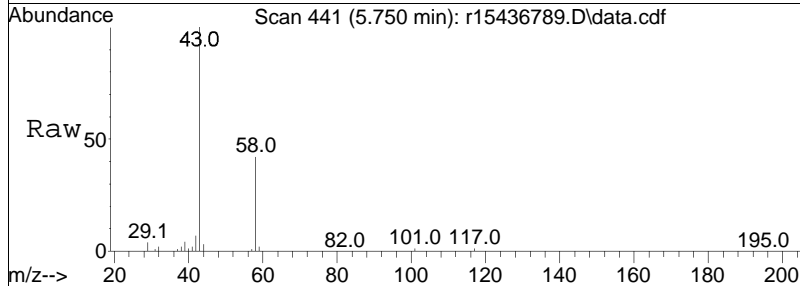
Tgt Ion	Resp	Lower	Upper
106	100		
108	95.4	75.1	112.7

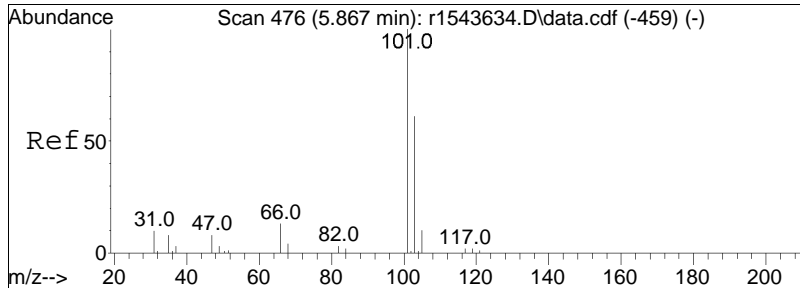




#19
 acetone
 Concen: 47.18 ppbV
 RT: 5.750 min Scan# 441
 Delta R.T. 0.077 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

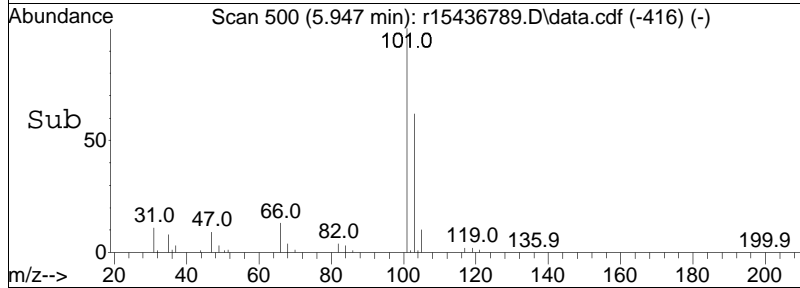
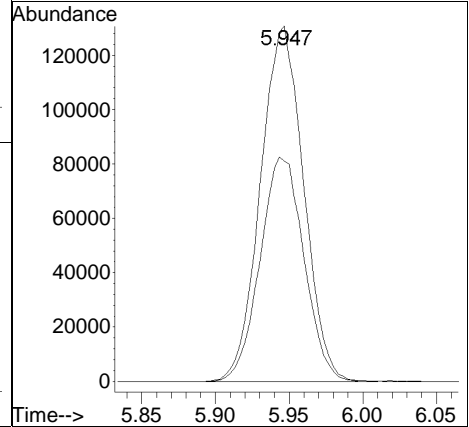
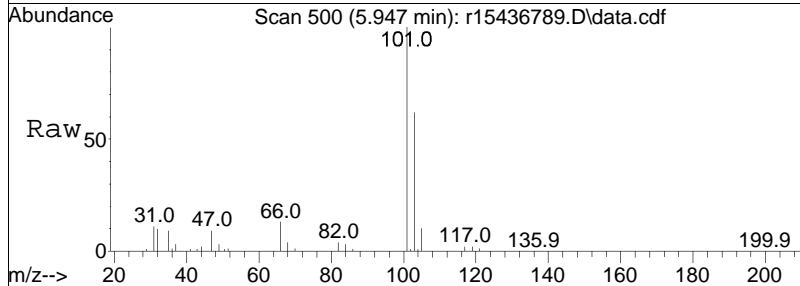
Tgt Ion	Resp	Lower	Upper
43	1324607		
58	41.9	33.2	49.8
57	1.1	0.9	1.3

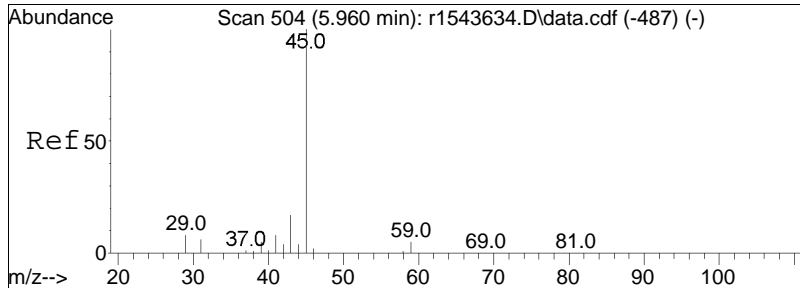




#21
 trichlorofluoromethane
 Concen: 9.44 ppbV
 RT: 5.947 min Scan# 500
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

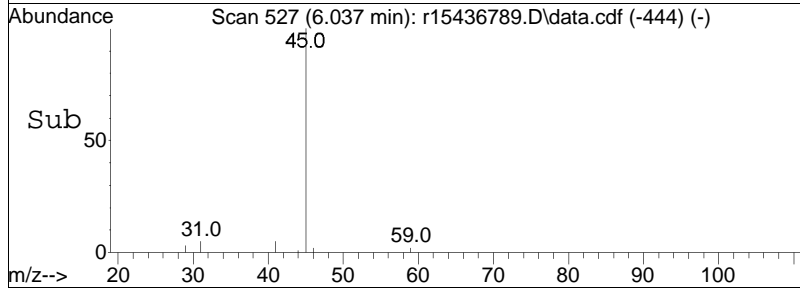
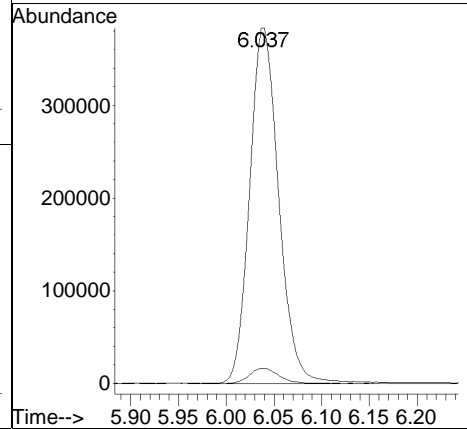
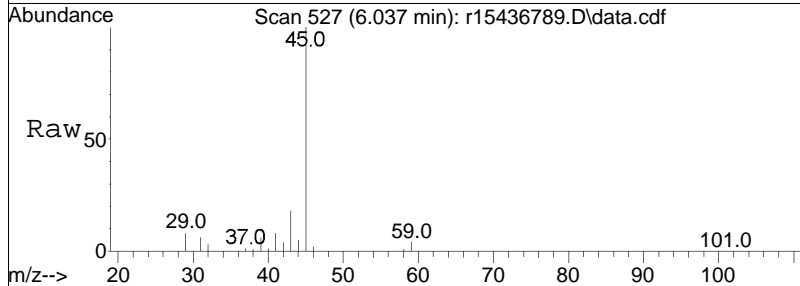
Tgt Ion	Resp	Lower	Upper
101	265986		
103	62.0	48.6	73.0

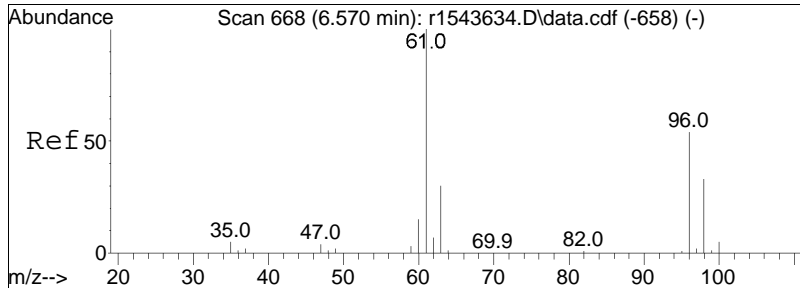




#22
 isopropyl alcohol
 Concen: 21.36 ppbV
 RT: 6.037 min Scan# 527
 Delta R.T. 0.077 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

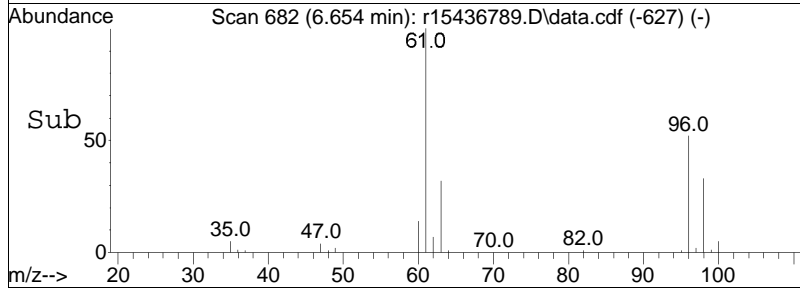
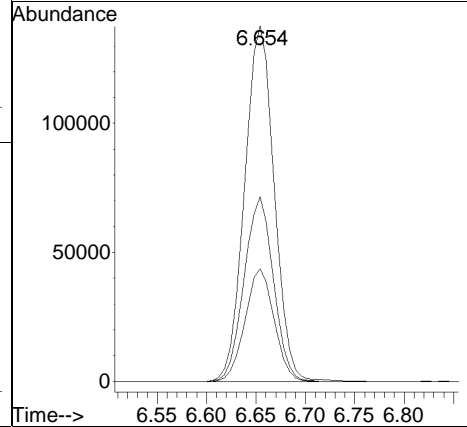
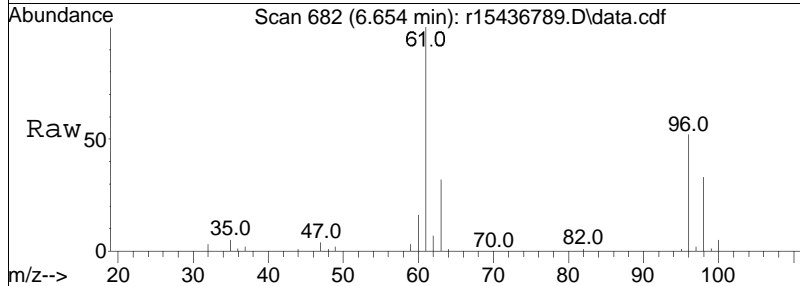
Tgt Ion	Resp	Lower	Upper
45	100		
59	4.3	3.6	5.4

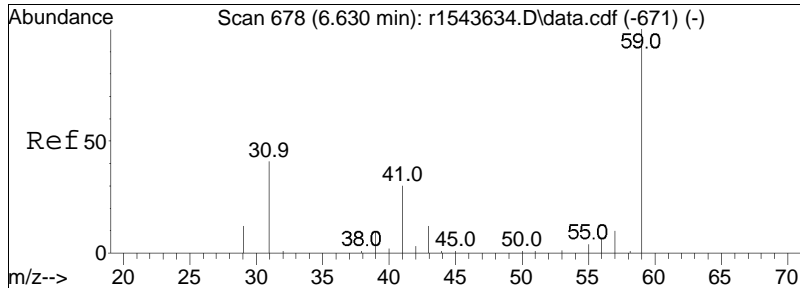




#26
 1,1-dichloroethene
 Concen: 9.27 ppbV
 RT: 6.654 min Scan# 682
 Delta R.T. 0.084 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

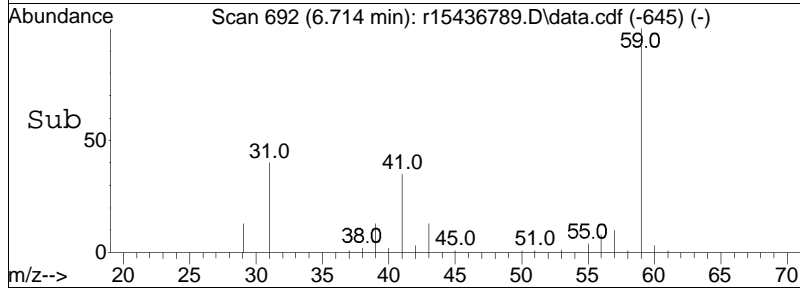
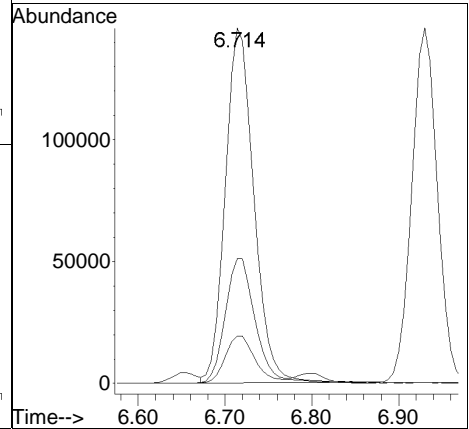
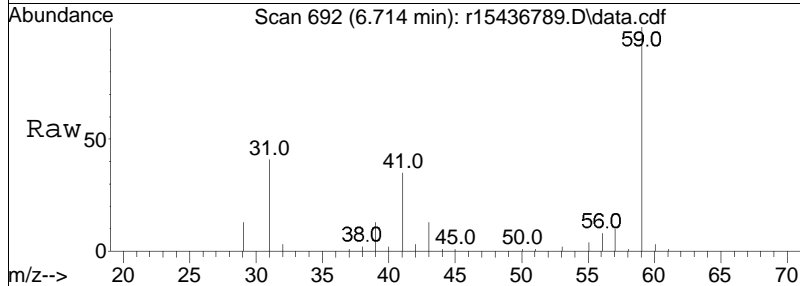
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	52.0	43.0	64.4
63	31.7	24.2	36.4

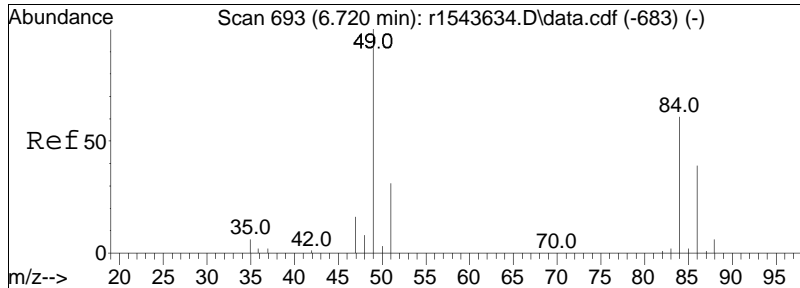




#27
 tertiary butyl alcohol
 Concen: 8.43 ppbV
 RT: 6.714 min Scan# 692
 Delta R.T. 0.084 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

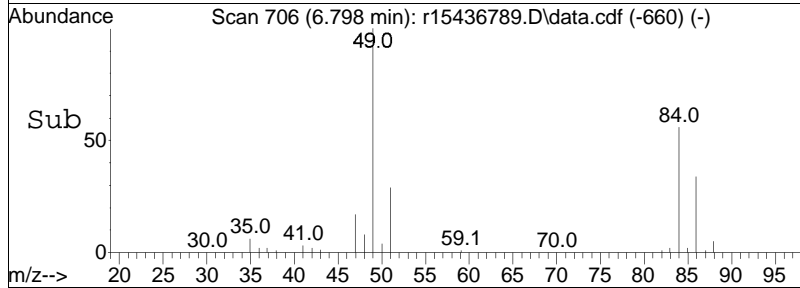
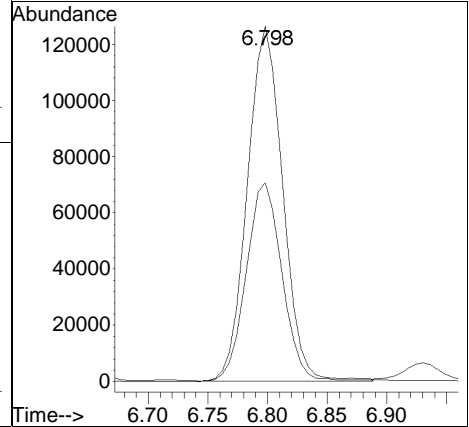
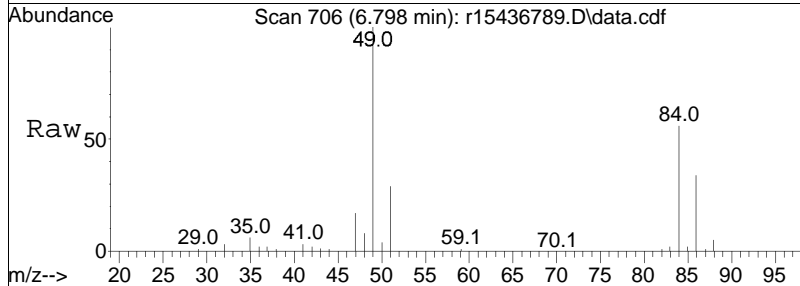
Tgt Ion	Resp	Lower	Upper
59	100		
41	35.1	23.6	35.4
43	13.4	9.8	14.6

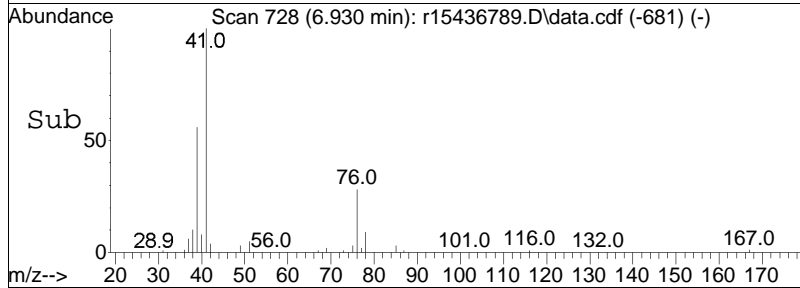
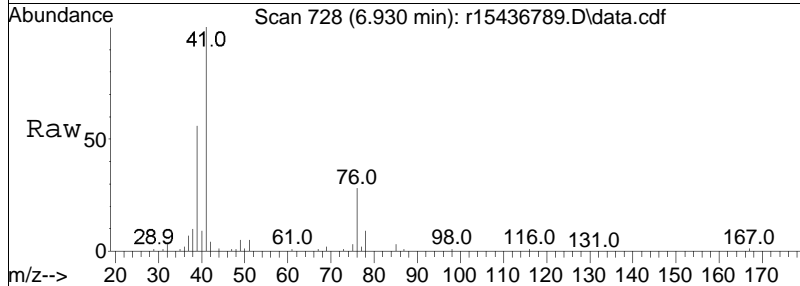
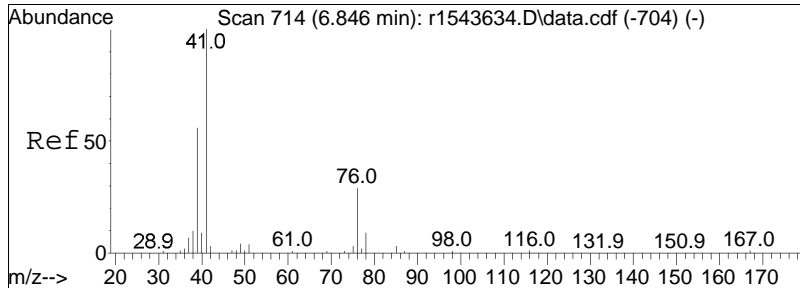




#28
 methylene chloride
 Concen: 9.33 ppbV
 RT: 6.798 min Scan# 706
 Delta R.T. 0.078 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

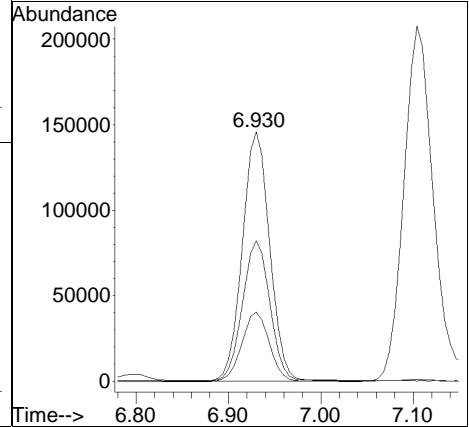
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
49	100		
84	56.0	48.8	73.2

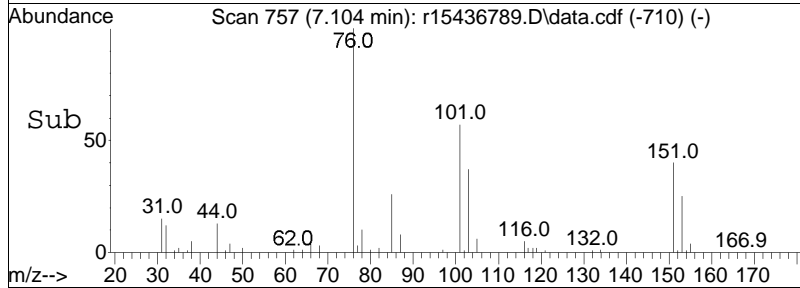
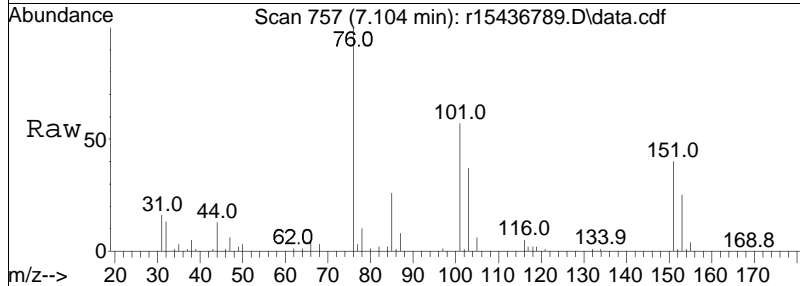
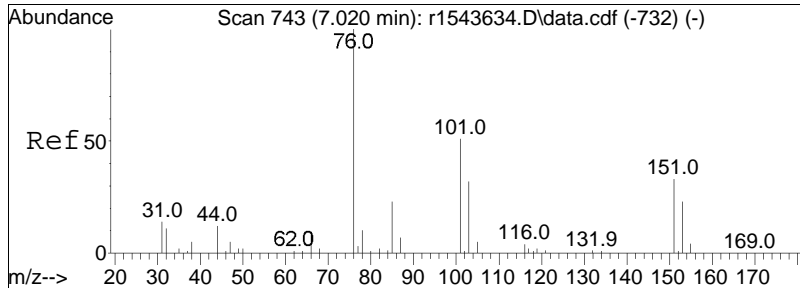




#29
 3-chloropropene
 Concen: 9.66 ppbV
 RT: 6.930 min Scan# 728
 Delta R.T. 0.084 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

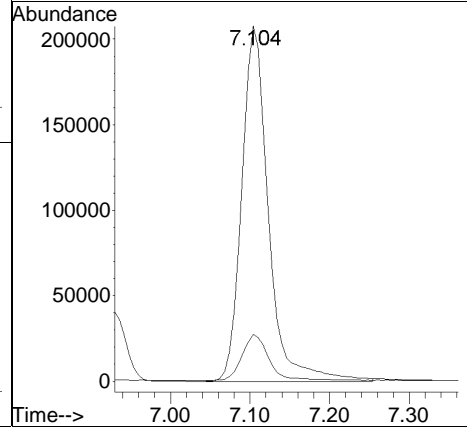
Tgt Ion:	41	Resp:	299124
Ion Ratio	Lower	Upper	
41	100		
39	56.4	44.6	66.8
76	27.8	22.9	34.3

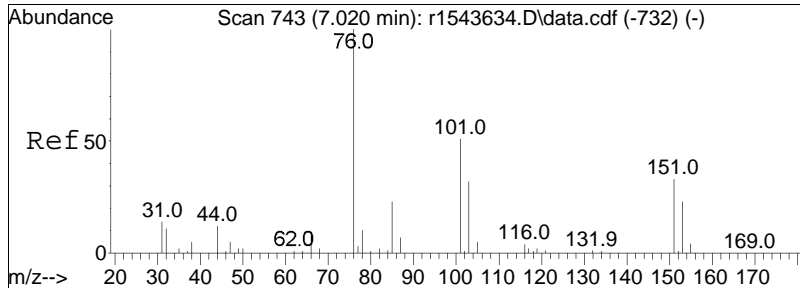




#30
 carbon disulfide
 Concen: 8.62 ppbV
 RT: 7.104 min Scan# 757
 Delta R.T. 0.084 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

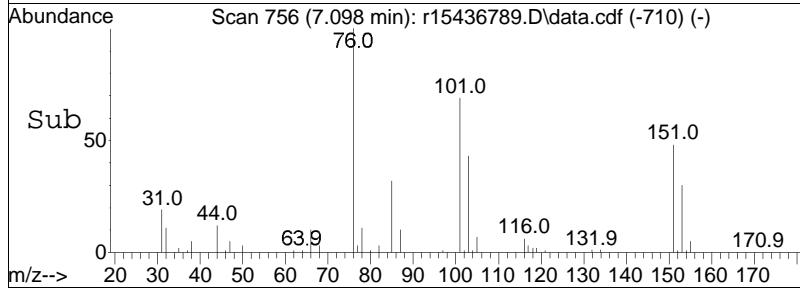
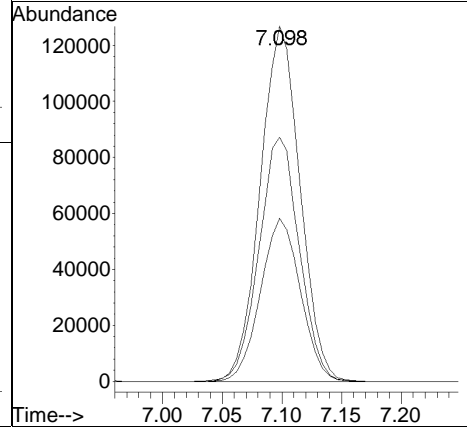
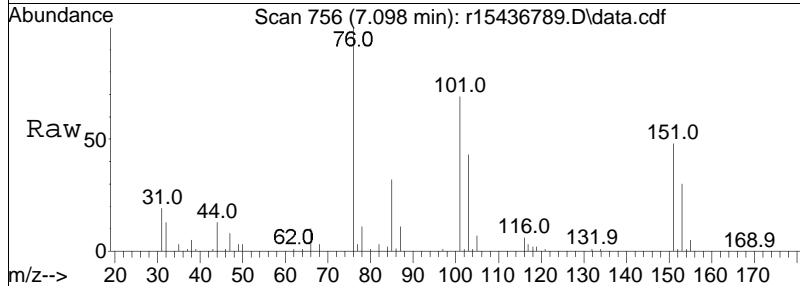
Tgt Ion: 76 Resp: 484786
 Ion Ratio Lower Upper
 76 100
 44 13.2 9.8 14.6

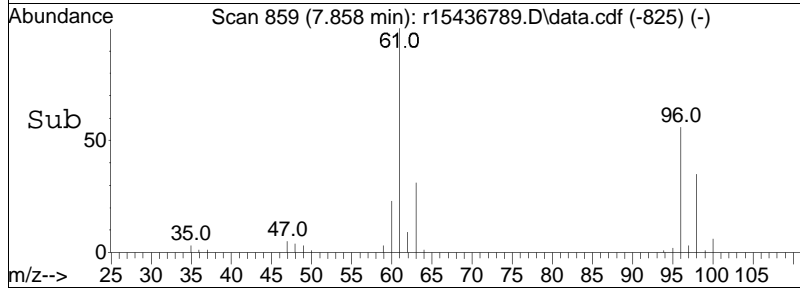
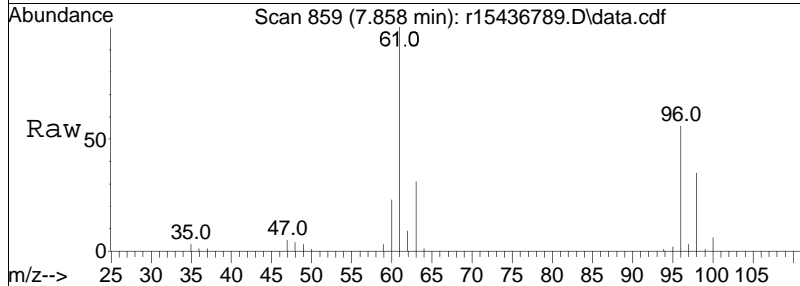
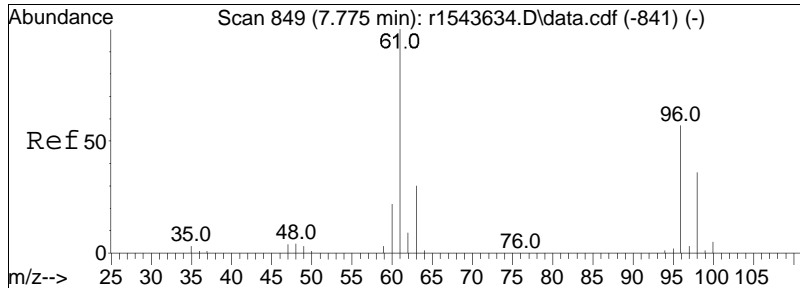




#31
 Freon 113
 Concen: 9.27 ppbV
 RT: 7.098 min Scan# 756
 Delta R.T. 0.078 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

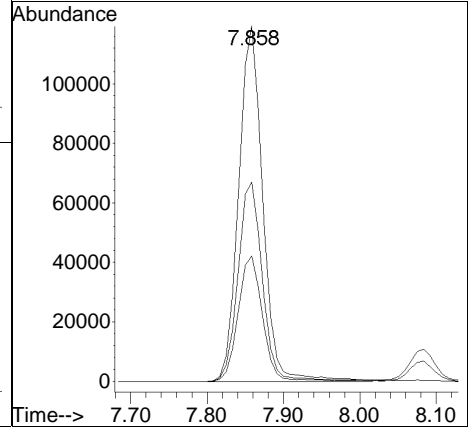
Tgt Ion	Ratio	Lower	Upper
101	100		
85	45.9	36.6	55.0
151	68.7	52.3	78.5

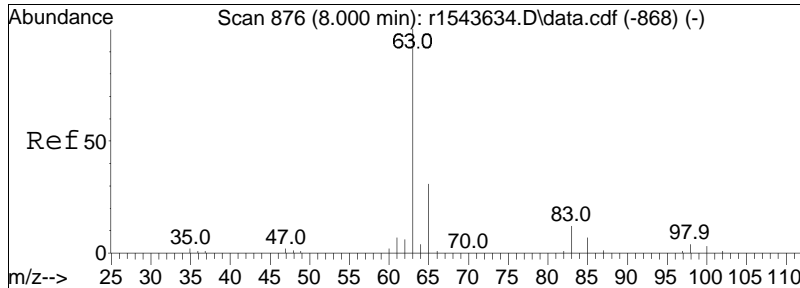




#32
 trans-1,2-dichloroethene
 Concen: 8.78 ppbV
 RT: 7.858 min Scan# 859
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

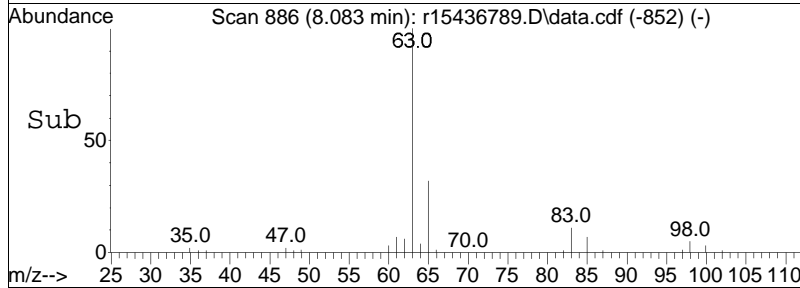
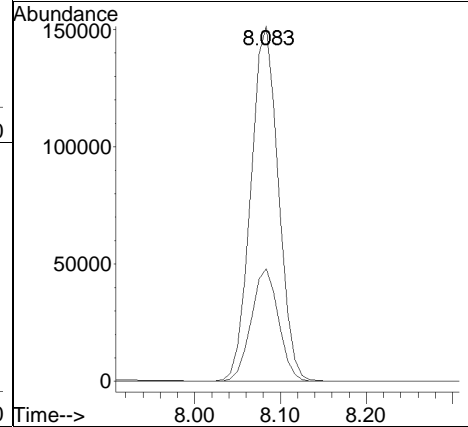
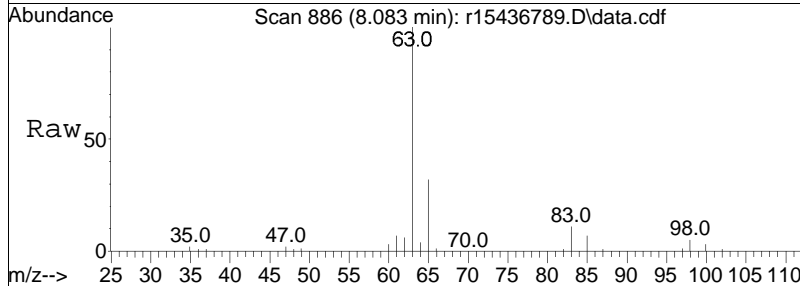
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	56.1	45.3	67.9
98	35.4	28.4	42.6

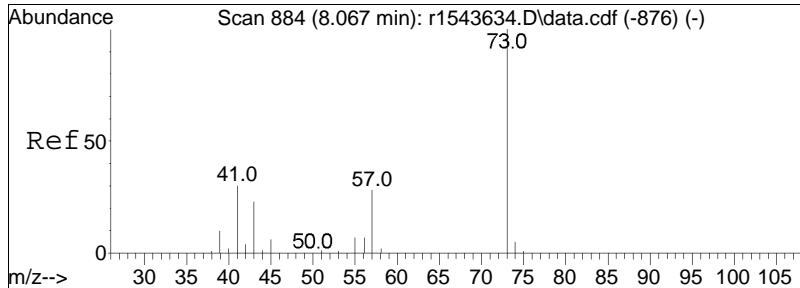




#33
 1,1-dichloroethane
 Concen: 9.02 ppbV
 RT: 8.083 min Scan# 886
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

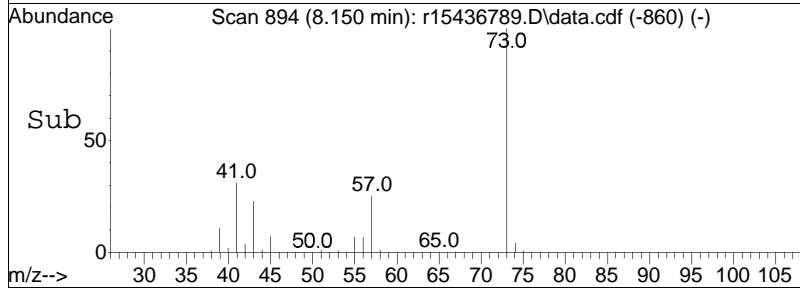
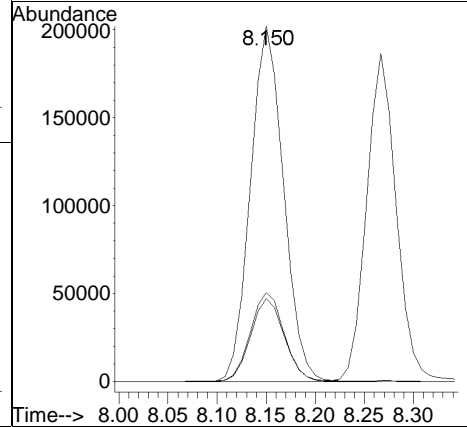
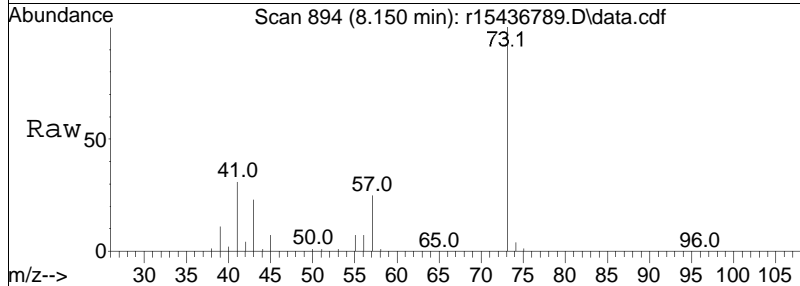
Tgt Ion:	Resp:	Lower	Upper
63	100		
65	31.7	25.1	37.7

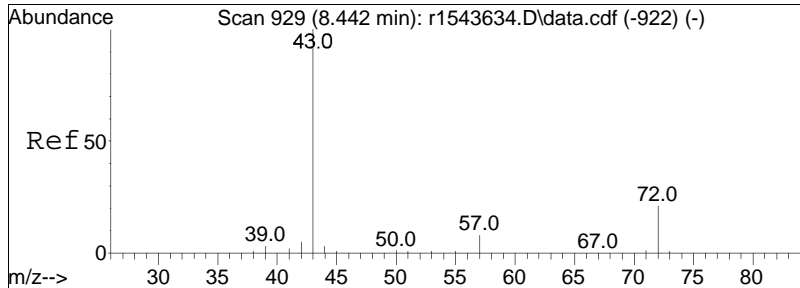




#34
 MTBE
 Concen: 9.57 ppbV
 RT: 8.150 min Scan# 894
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

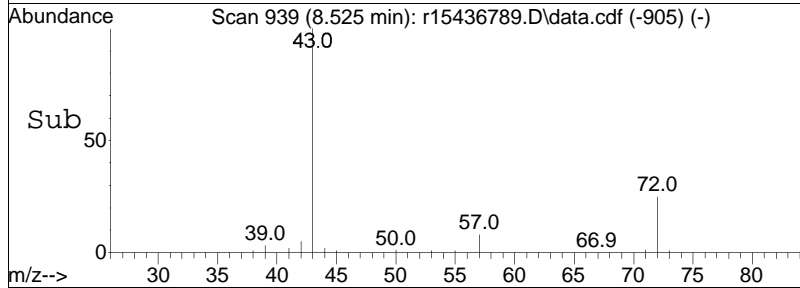
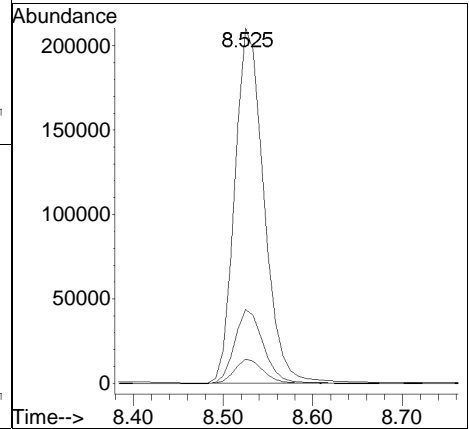
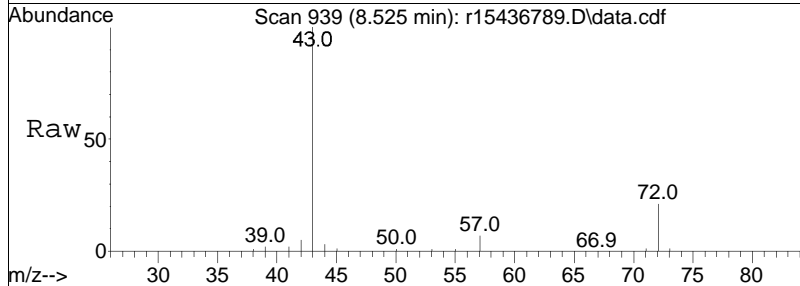
Tgt Ion:	73	Resp:	472970
Ion Ratio	Lower	Upper	
73	100		
57	25.0	22.2	33.2
43	23.3	18.1	27.1

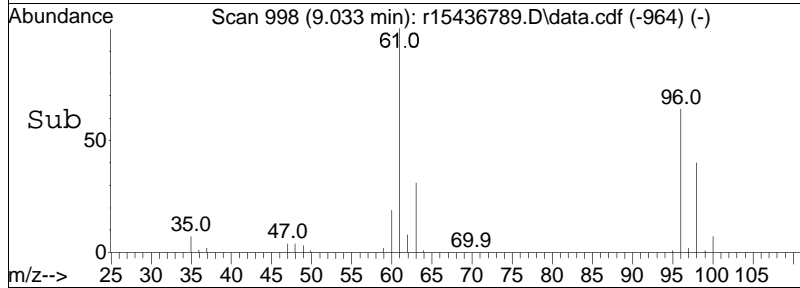
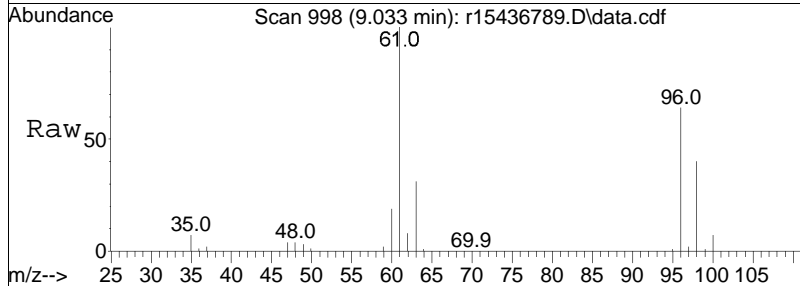
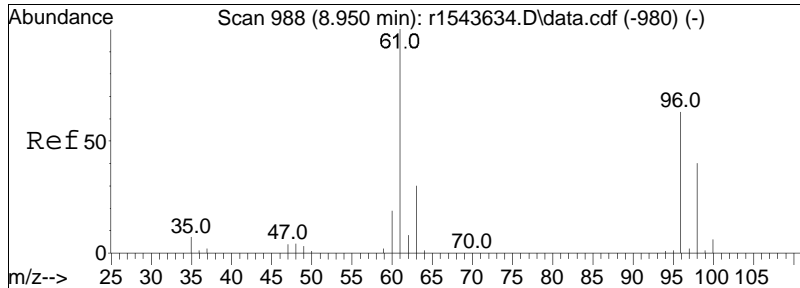




#36
 2-butanone
 Concen: 9.60 ppbV
 RT: 8.525 min Scan# 939
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

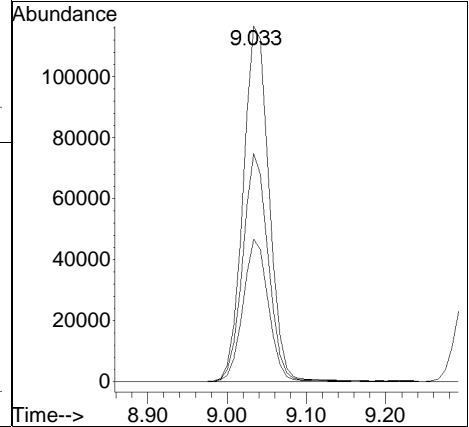
Tgt Ion	Resp	Lower	Upper
43	474500		
72	20.8	16.8	25.2
57	6.8	6.0	9.0

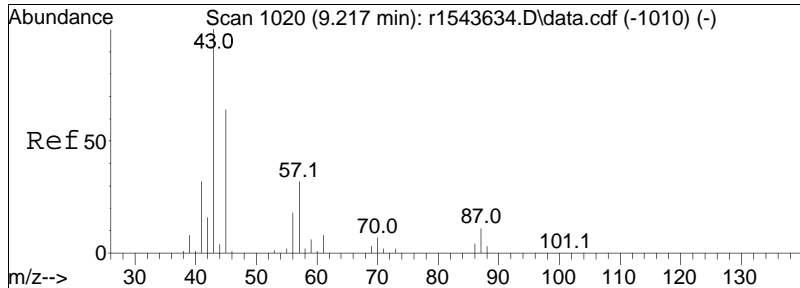




#37
 cis-1,2-dichloroethene
 Concen: 9.26 ppbV
 RT: 9.033 min Scan# 998
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

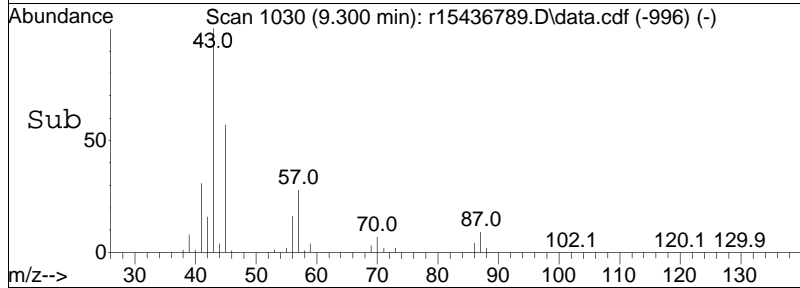
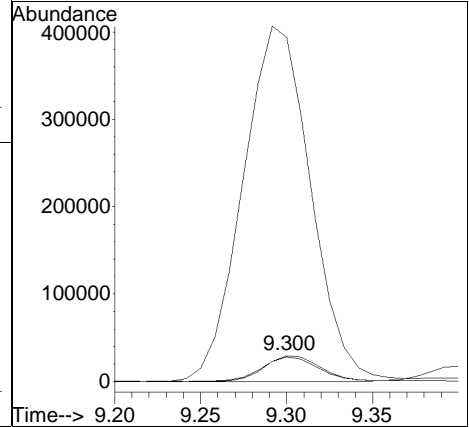
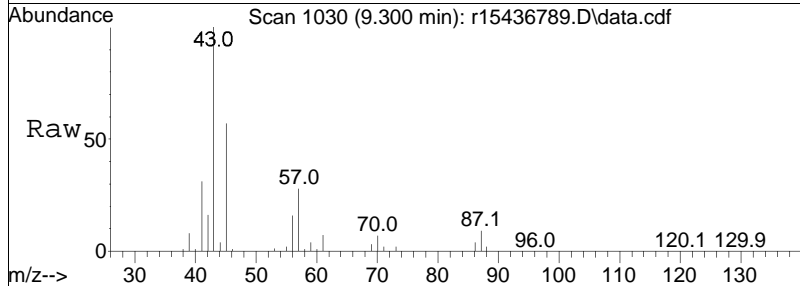
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	64.1	50.7	76.1
98	40.0	31.9	47.9

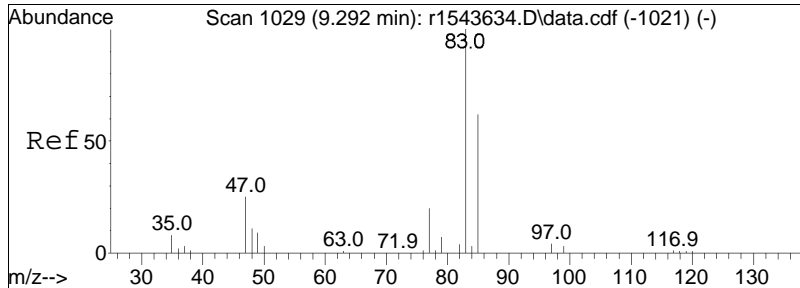




#38
 Ethyl Acetate
 Concen: 8.81 ppbV
 RT: 9.300 min Scan# 1030
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

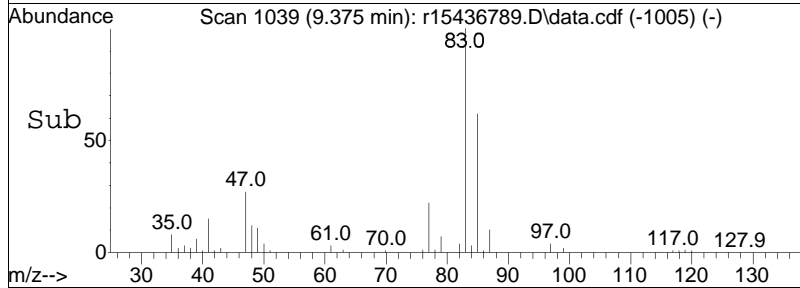
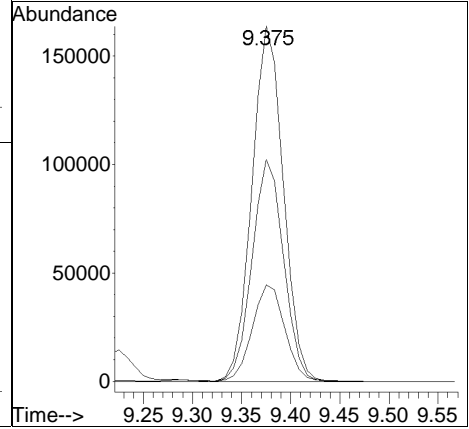
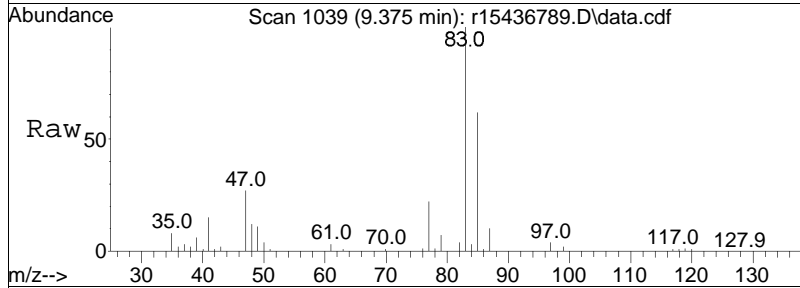
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	95.8	71.4	107.2
43	1341.4	1000.1	1500.1

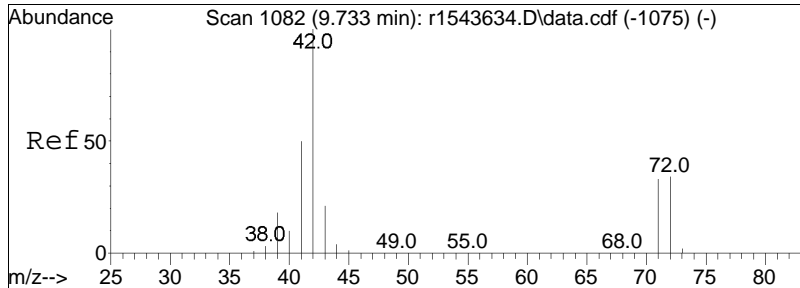




#39
 chloroform
 Concen: 9.52 ppbV
 RT: 9.375 min Scan# 1039
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

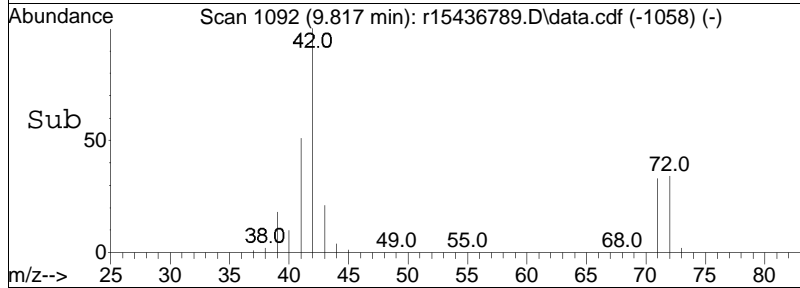
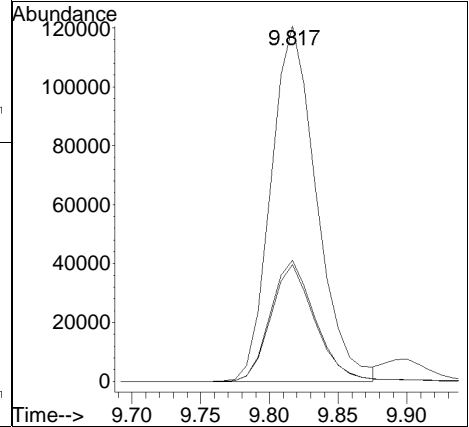
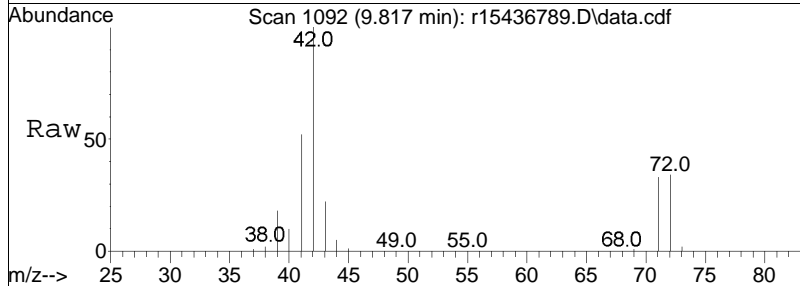
Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.5	50.0	75.0
47	27.1	20.0	30.0

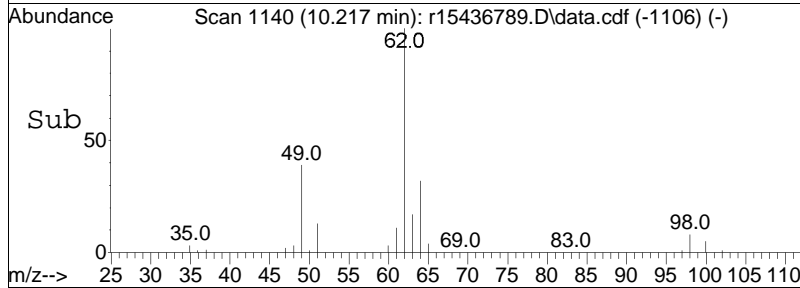
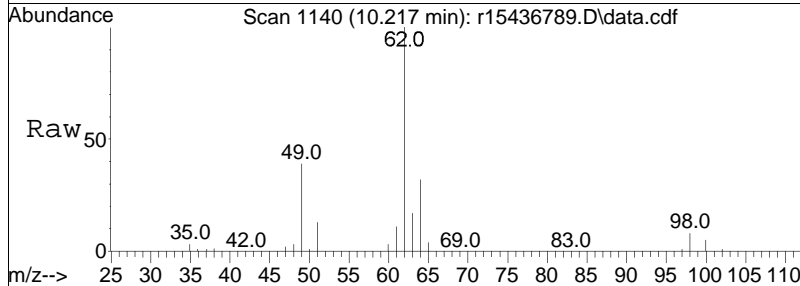
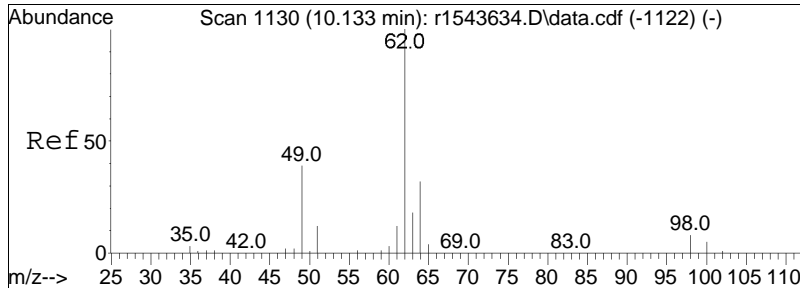




#40
 Tetrahydrofuran
 Concen: 9.38 ppbV
 RT: 9.817 min Scan# 1092
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

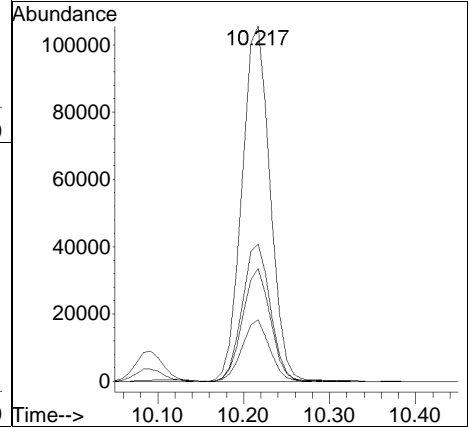
Tgt Ion	Resp	Lower	Upper
42	277664		
71	32.9	26.1	39.1
72	34.1	27.1	40.7

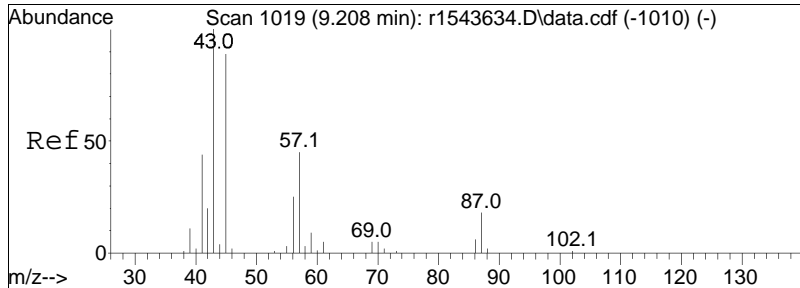




#42
 1,2-dichloroethane
 Concen: 9.48 ppbV
 RT: 10.217 min Scan# 1140
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

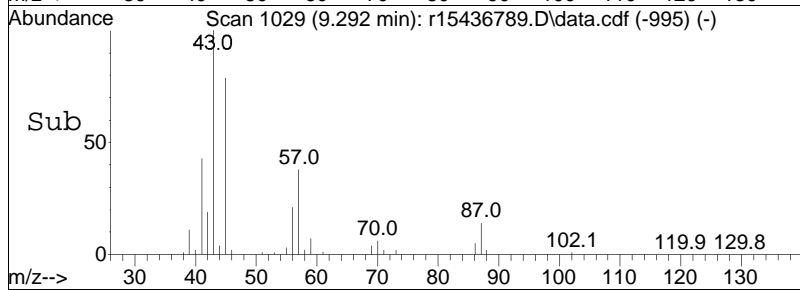
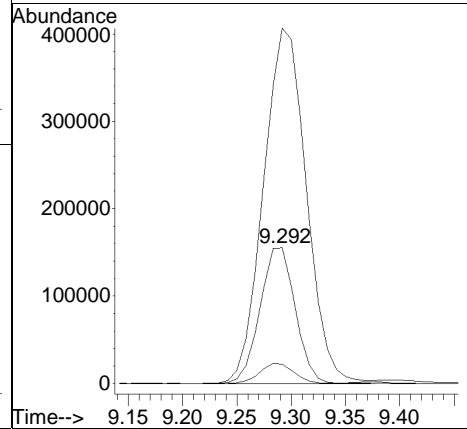
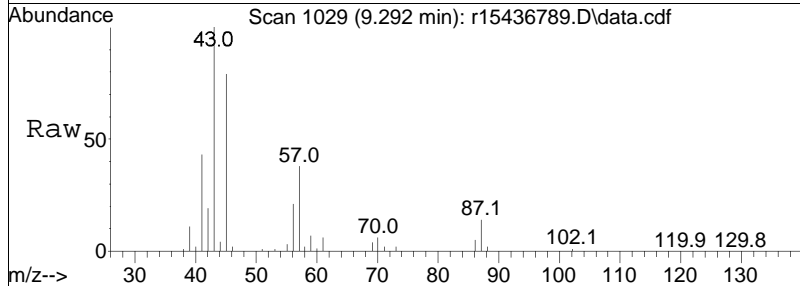
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
62	100		
64	31.8	25.2	37.8
49	38.6	31.2	46.8
63	17.4	14.2	21.4

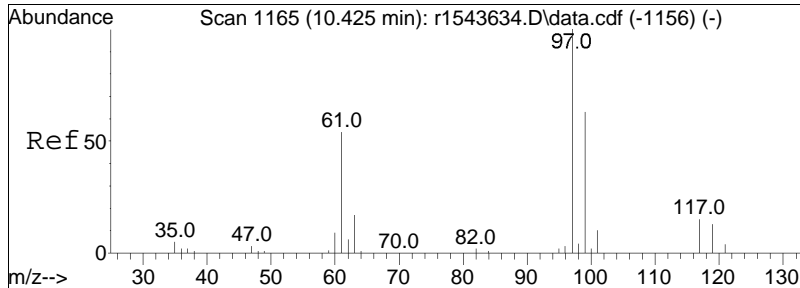




#44
 hexane
 Concen: 8.93 ppbV
 RT: 9.292 min Scan# 1029
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

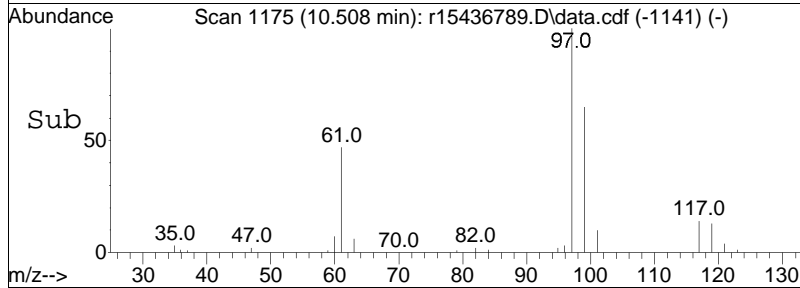
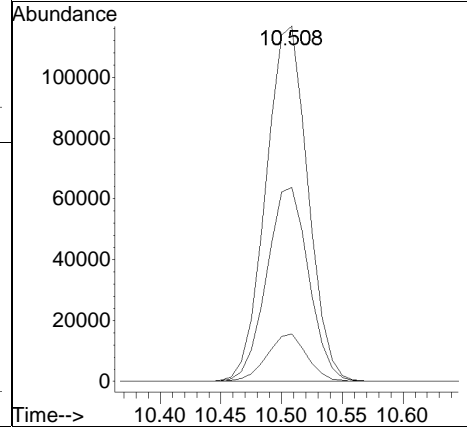
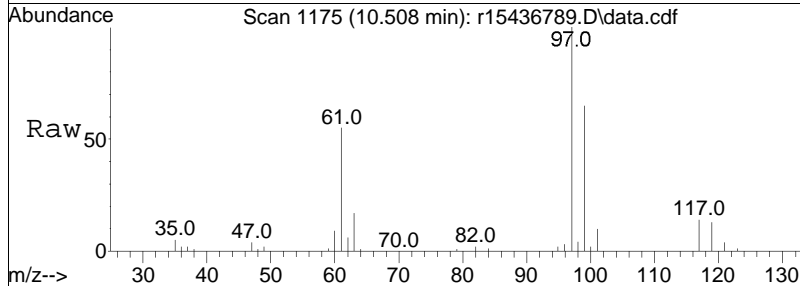
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
57	100		
43	262.0	179.7	269.5
86	14.2	11.3	16.9

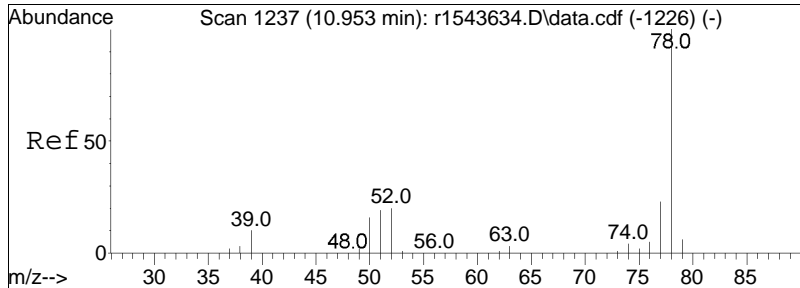




#48
 1,1,1-trichloroethane
 Concen: 9.77 ppbV
 RT: 10.508 min Scan# 1175
 Delta R.T. 0.083 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

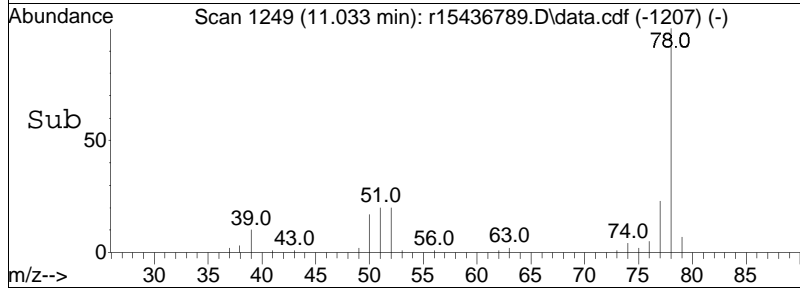
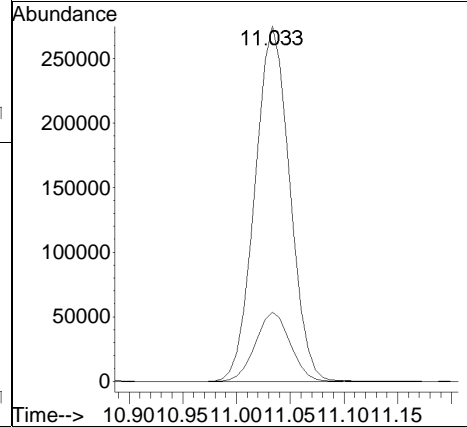
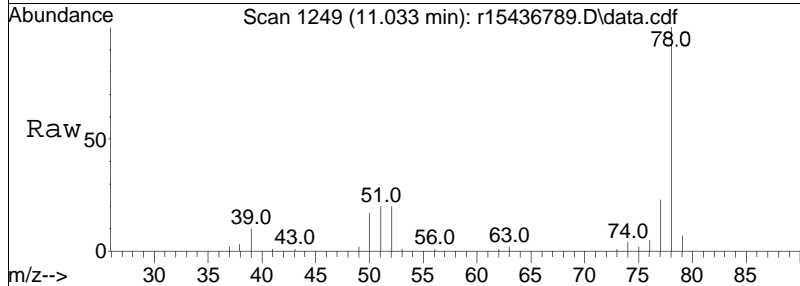
Tgt Ion	Resp	Lower	Upper
97	281071		
61	54.6	43.3	64.9
119	13.4	10.6	16.0

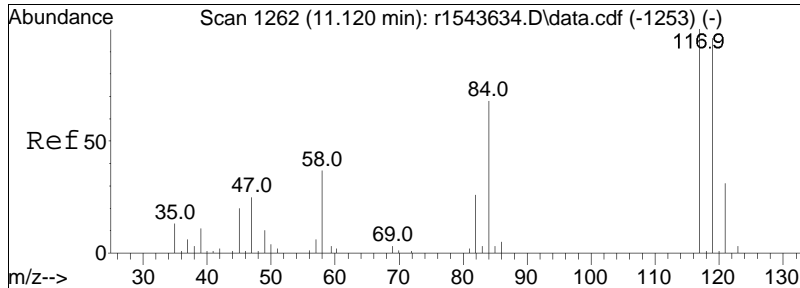




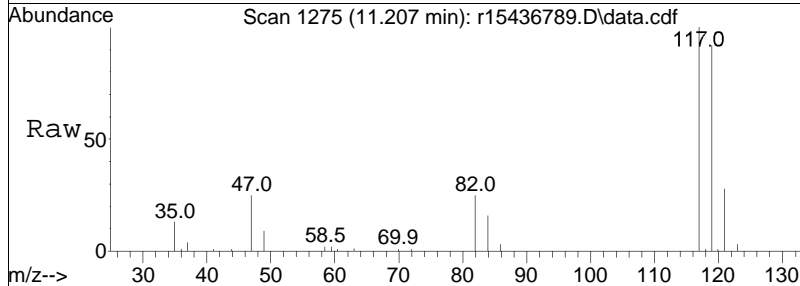
#50
benzene
Concen: 9.13 ppbV
RT: 11.033 min Scan# 1249
Delta R.T. 0.080 min
Lab File: r15436789.D
Acq: 29 Mar 2024 1:29 PM

Tgt Ion: 78 Resp: 618623
Ion Ratio Lower Upper
78 100
52 19.5 16.0 24.0

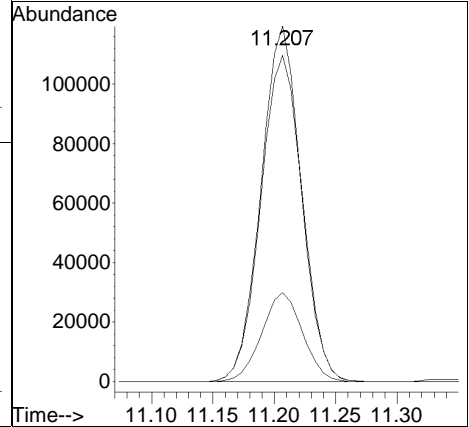
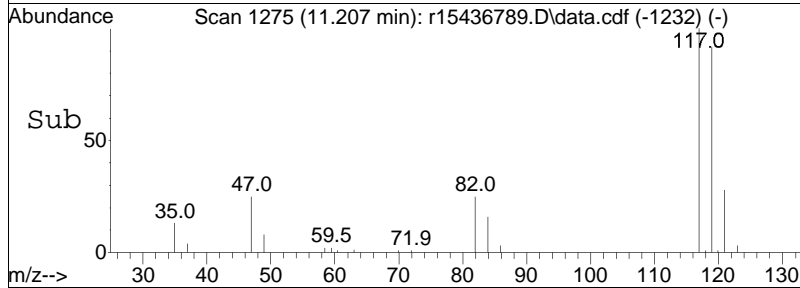


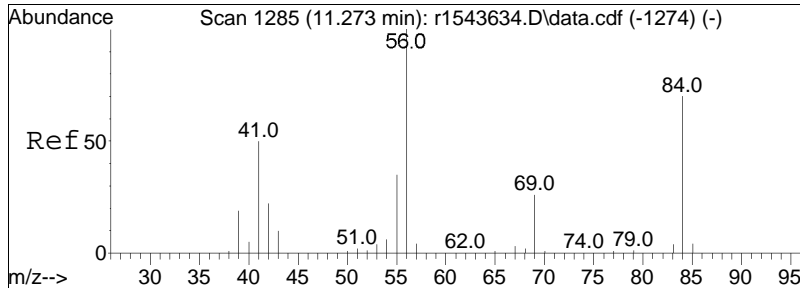


#52
 carbon tetrachloride
 Concen: 10.27 ppbV
 RT: 11.207 min Scan# 1275
 Delta R.T. 0.087 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM



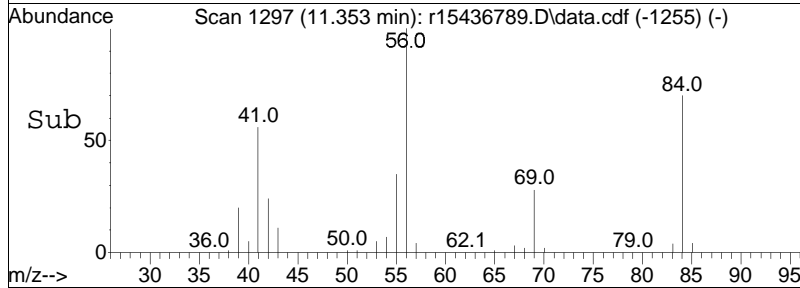
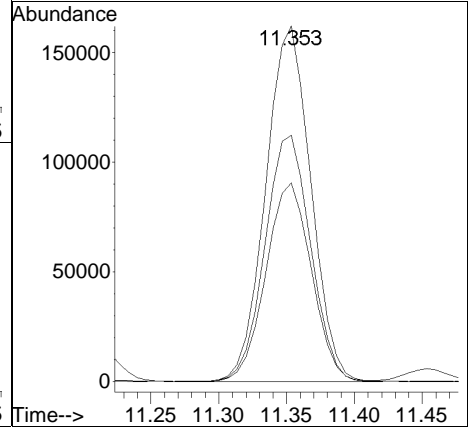
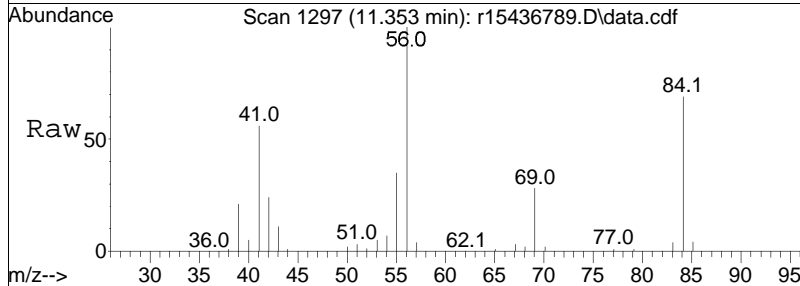
Tgt Ion	Resp	Lower	Upper
117	100		
119	91.8	76.7	115.1
82	25.0	20.9	31.3

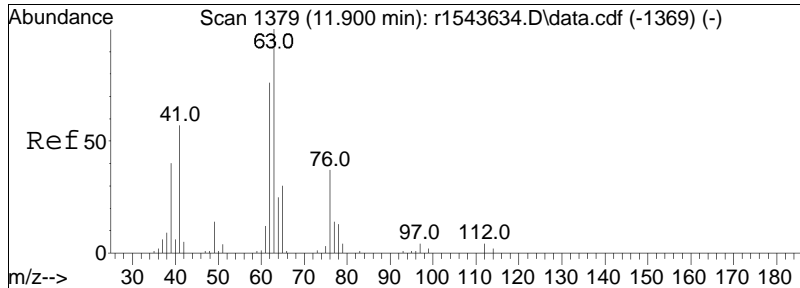




#53
 cyclohexane
 Concen: 9.03 ppbV
 RT: 11.353 min Scan# 1297
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

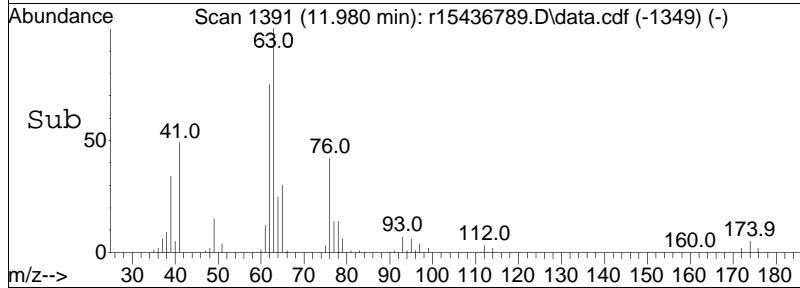
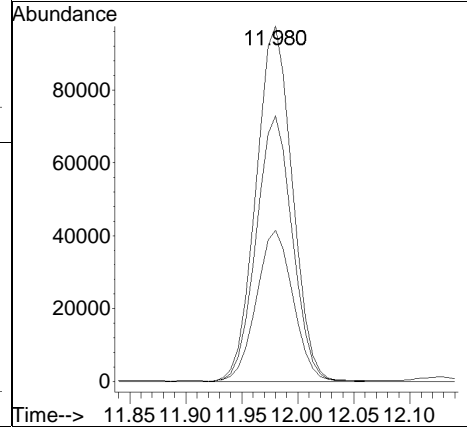
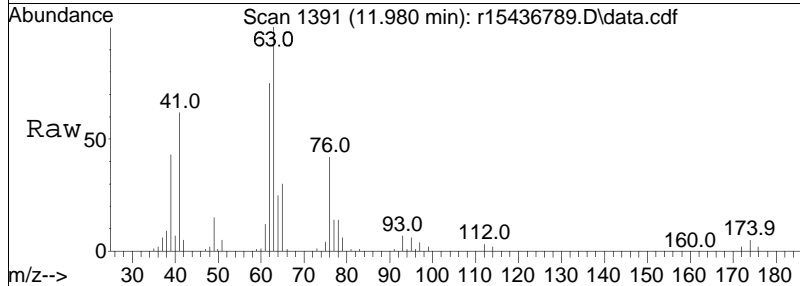
Tgt Ion	Resp	Lower	Upper
56	100		
84	69.3	55.9	83.9
41	55.8	40.3	60.5

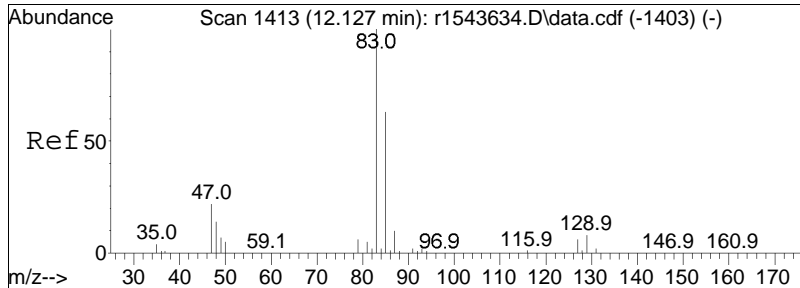




#56
 1,2-dichloropropane
 Concen: 8.99 ppbV
 RT: 11.980 min Scan# 1391
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

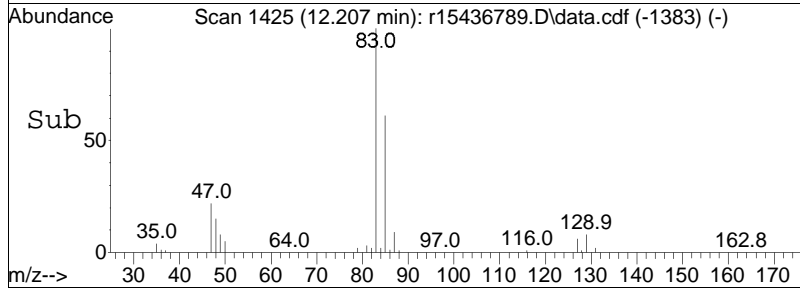
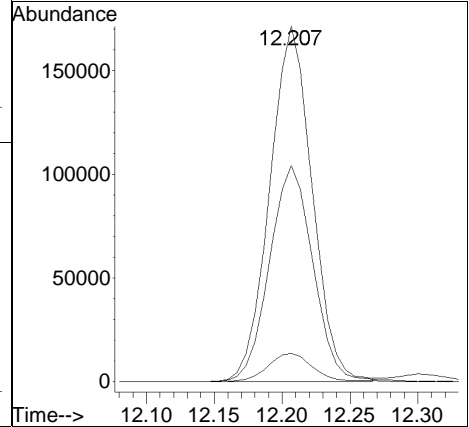
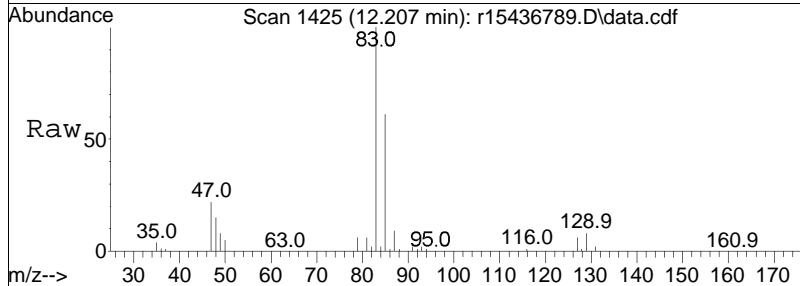
Tgt Ion	Resp	Lower	Upper
63	100		
62	74.7	60.7	91.1
39	42.5	32.0	48.0

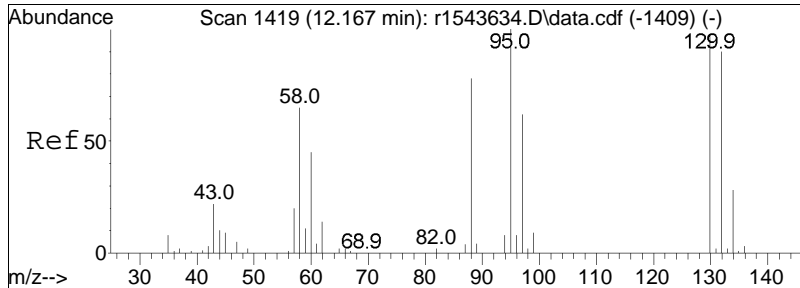




#57
 bromodichloromethane
 Concen: 9.96 ppbV
 RT: 12.207 min Scan# 1425
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

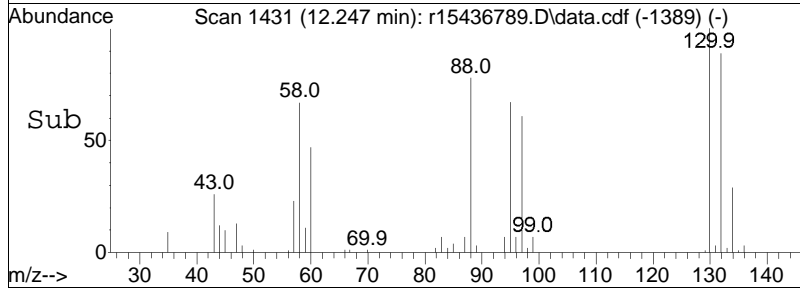
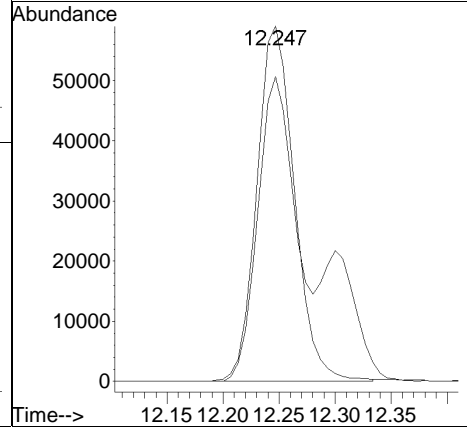
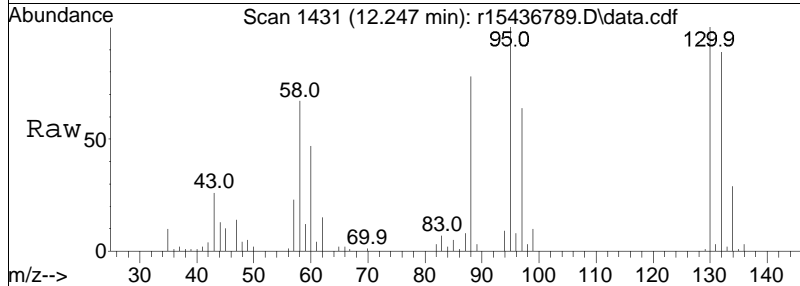
Tgt Ion	Resp	Lower	Upper
83	371544		
83	100		
85	60.8	50.3	75.5
129	7.9	6.6	10.0

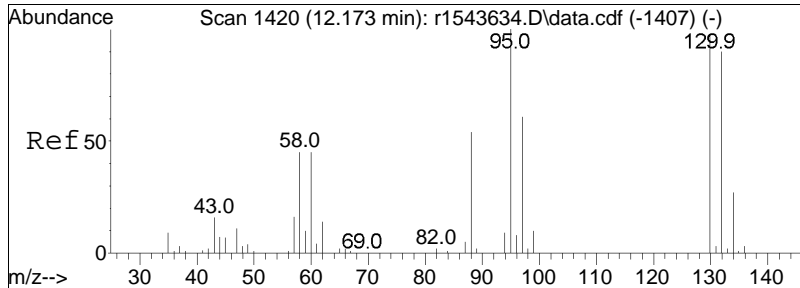




#58
 1,4-dioxane
 Concen: 9.66 ppbV
 RT: 12.247 min Scan# 1431
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

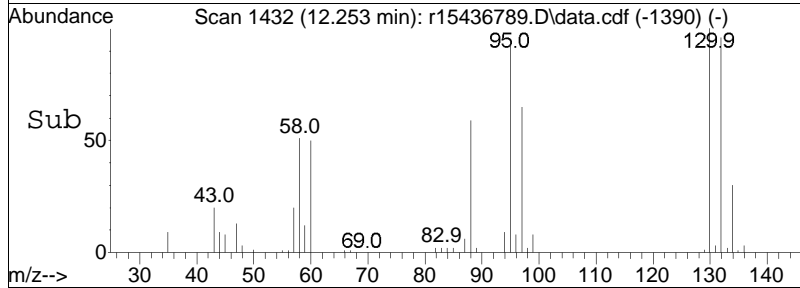
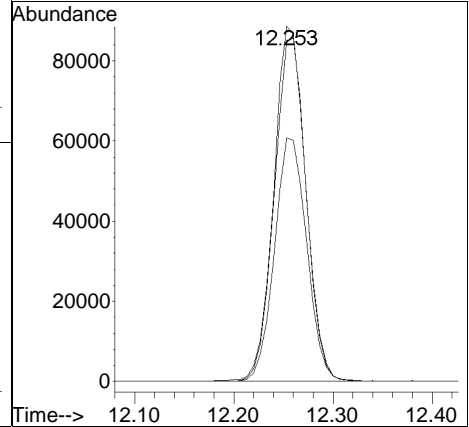
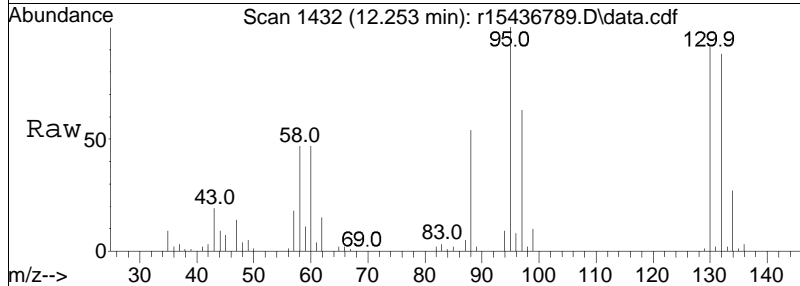
Tgt Ion	Resp	Lower	Upper
88	137652		
88	100		
58	85.8	67.0	100.4

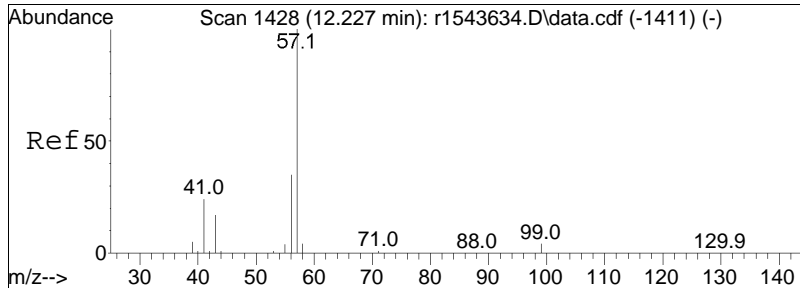




#59
 trichloroethene
 Concen: 8.83 ppbV
 RT: 12.253 min Scan# 1432
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

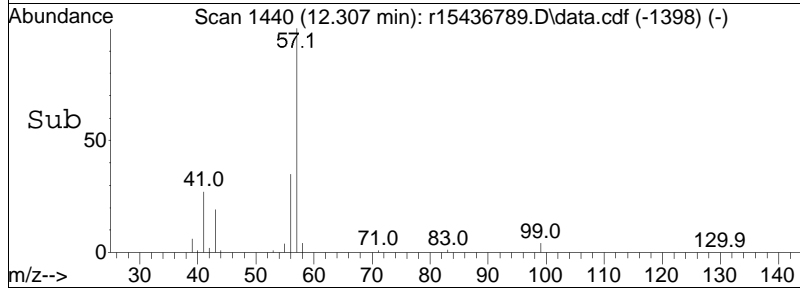
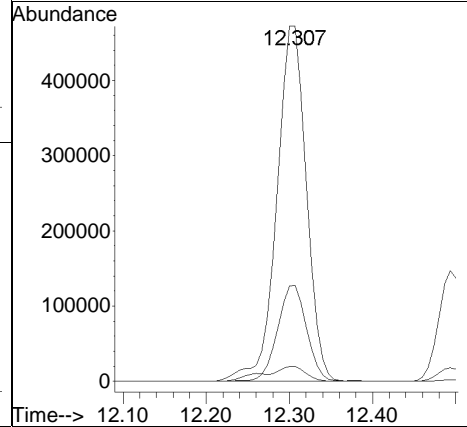
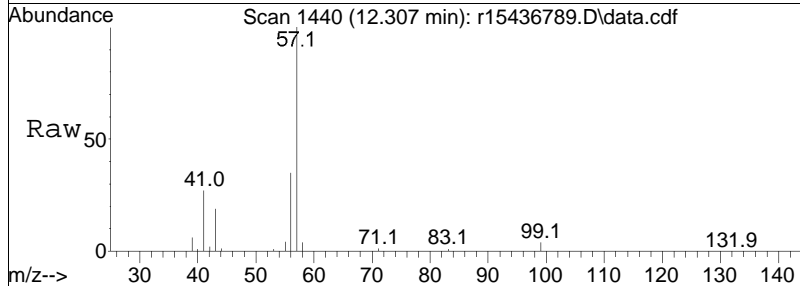
Tgt Ion	Resp	Lower	Upper
130	100		
132	95.9	74.4	111.6
97	68.6	50.4	75.6

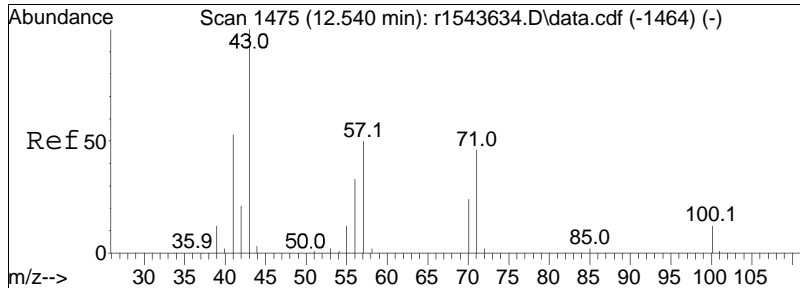




#60
 2,2,4-trimethylpentane
 Concen: 9.31 ppbV
 RT: 12.307 min Scan# 1440
 Delta R.T. 0.080 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

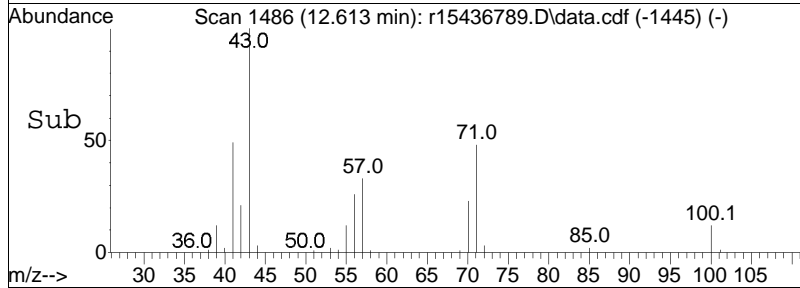
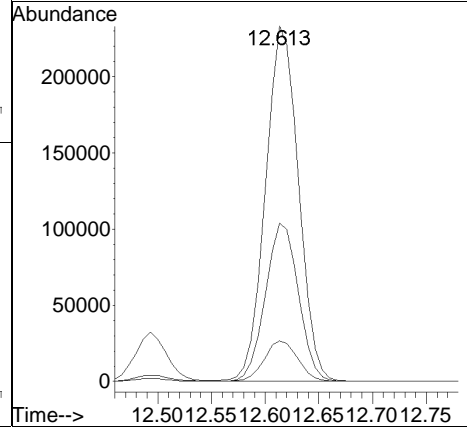
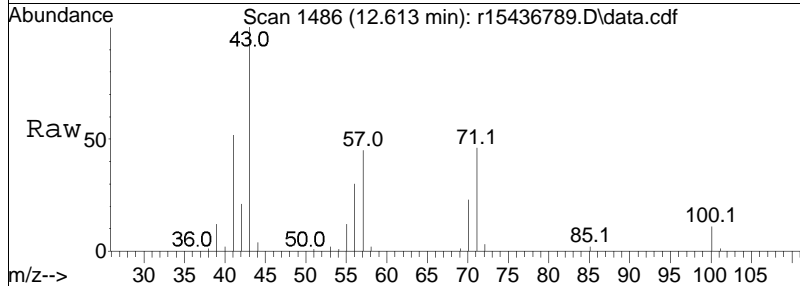
Tgt Ion	Resp	Lower	Upper
57	1169712		
Ion Ratio			
57	100		
99	4.3	3.1	4.7
41	27.1	19.4	29.2

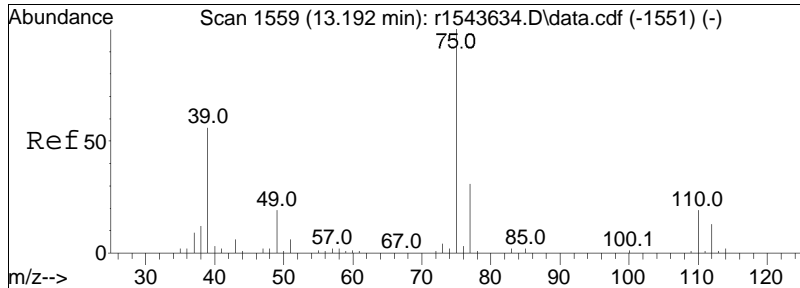




#62
 heptane
 Concen: 10.08 ppbV
 RT: 12.613 min Scan# 1486
 Delta R.T. 0.073 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

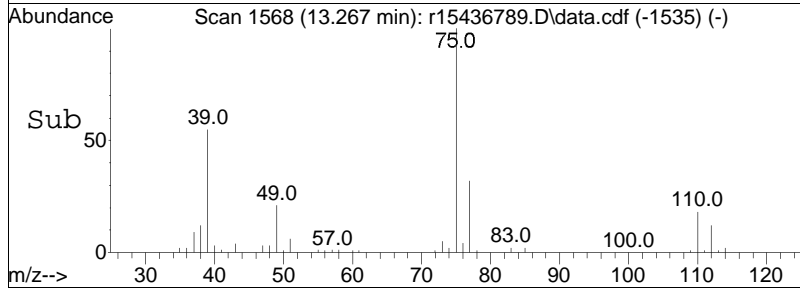
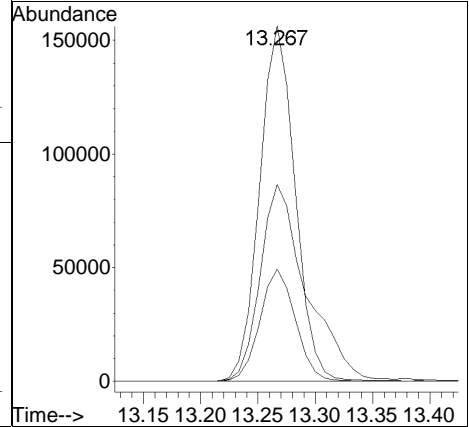
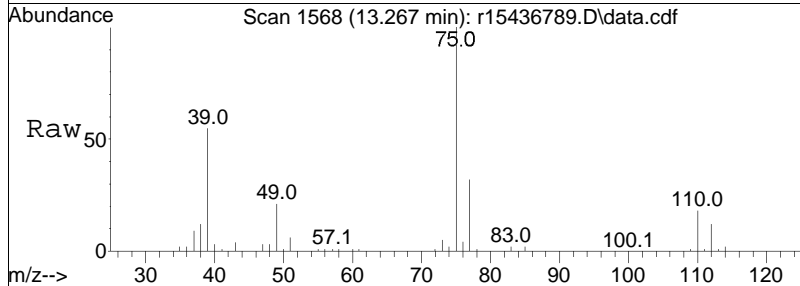
Tgt Ion	Ratio	Lower	Upper
43	100		
57	44.5	39.8	59.6
100	11.4	9.8	14.8

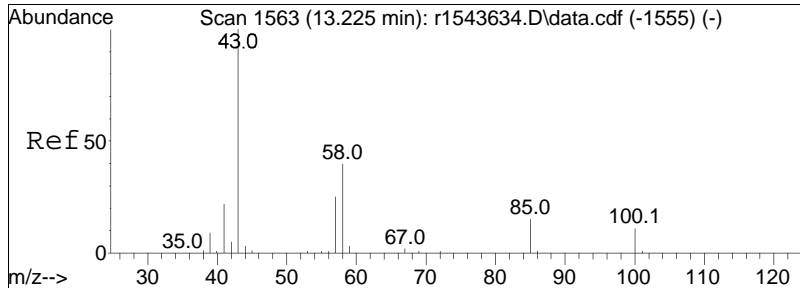




#63
 cis-1,3-dichloropropene
 Concen: 10.05 ppbV
 RT: 13.267 min Scan# 1568
 Delta R.T. 0.075 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

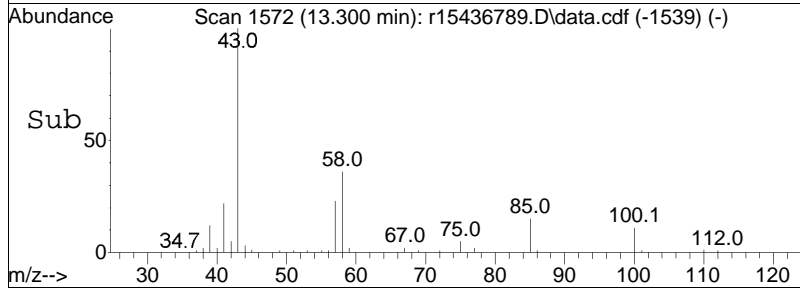
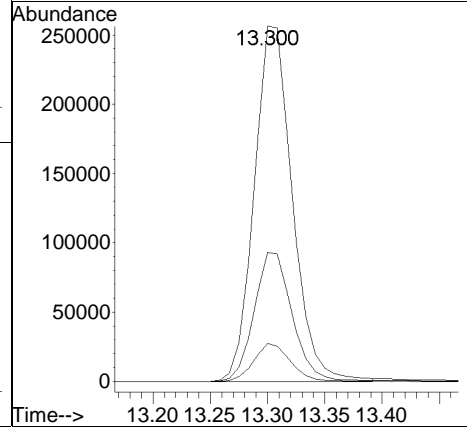
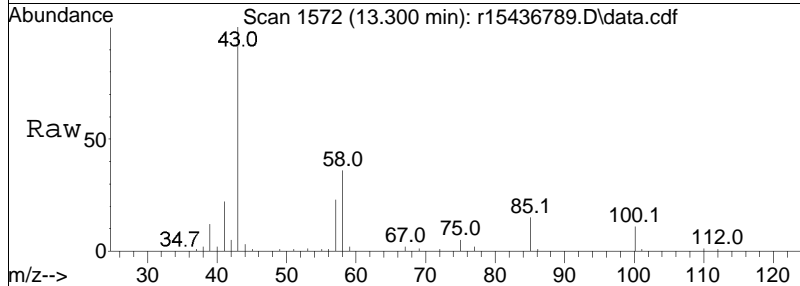
Tgt Ion	Resp	Lower	Upper
75	100		
39	55.5	44.5	66.7
77	31.6	25.0	37.6

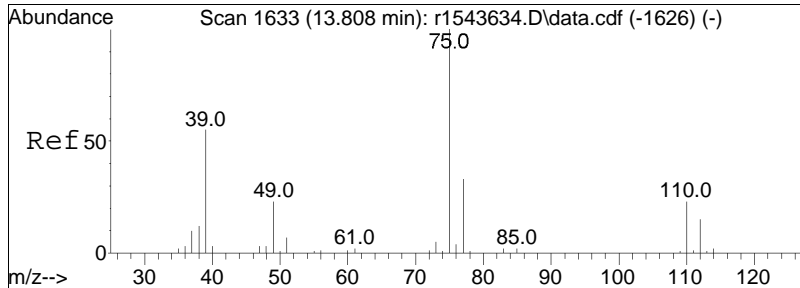




#64
 4-methyl-2-pentanone
 Concen: 10.21 ppbV
 RT: 13.300 min Scan# 1572
 Delta R.T. 0.075 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

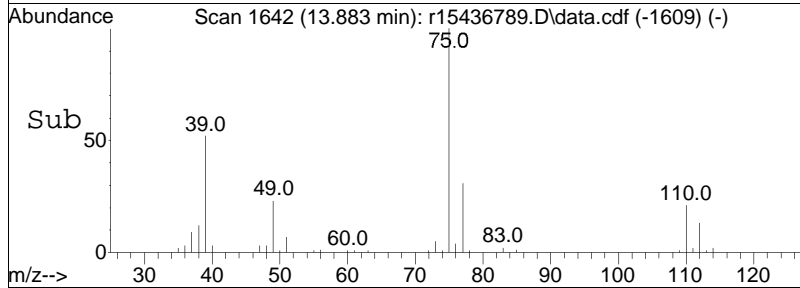
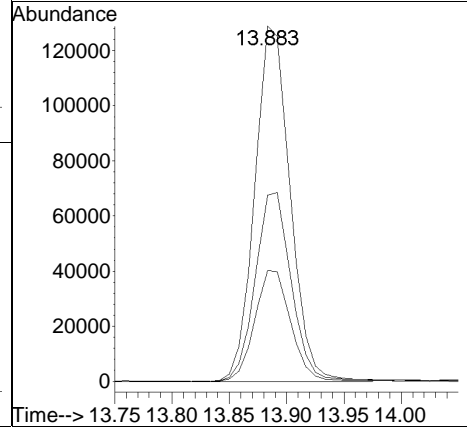
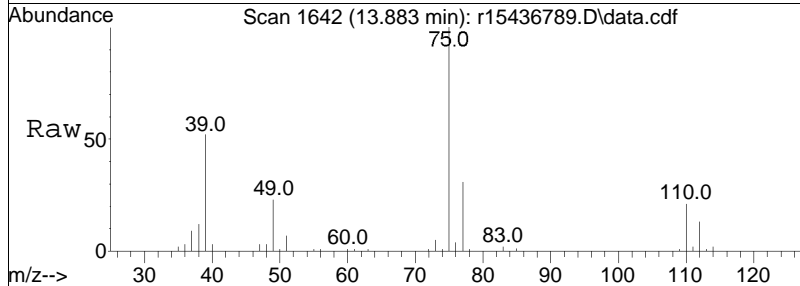
Tgt Ion	Resp	Lower	Upper
43	100		
58	36.3	31.8	47.8
100	10.7	8.9	13.3

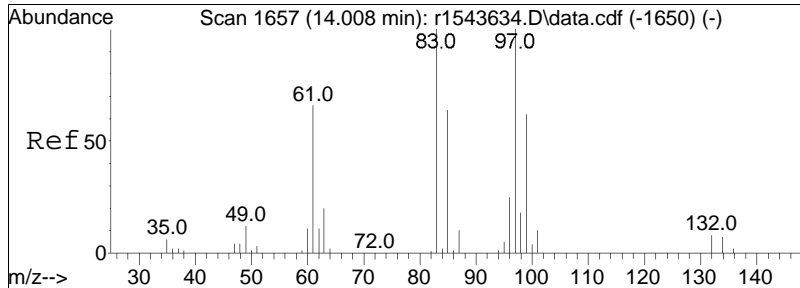




#65
 trans-1,3-dichloropropene
 Concen: 10.34 ppbV
 RT: 13.883 min Scan# 1642
 Delta R.T. 0.075 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

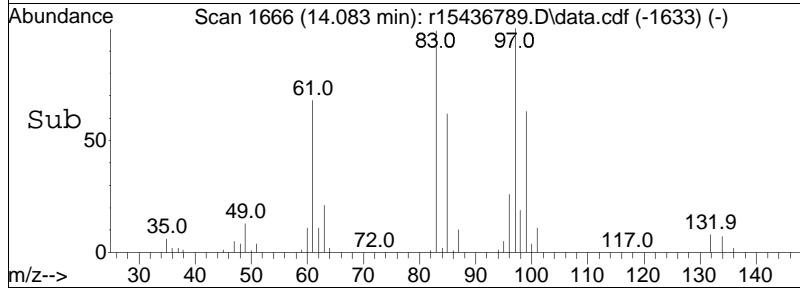
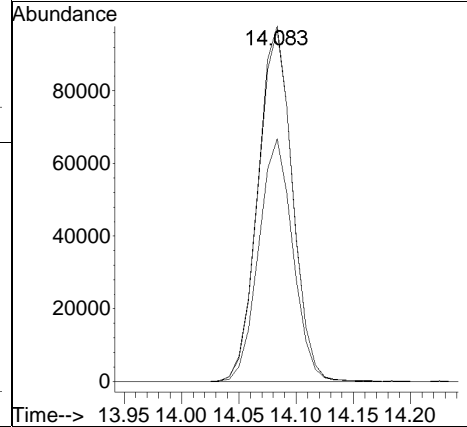
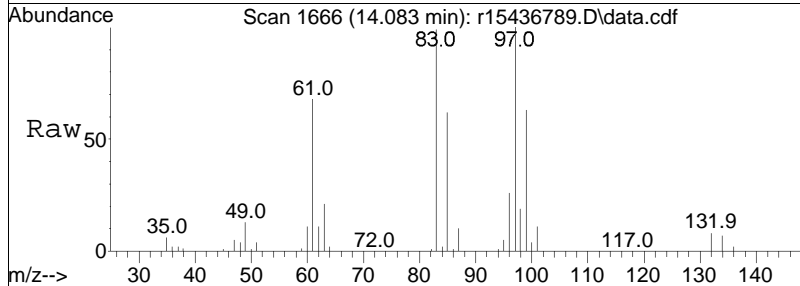
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
75	100		
77	31.2	26.1	39.1
39	52.4	43.8	65.8

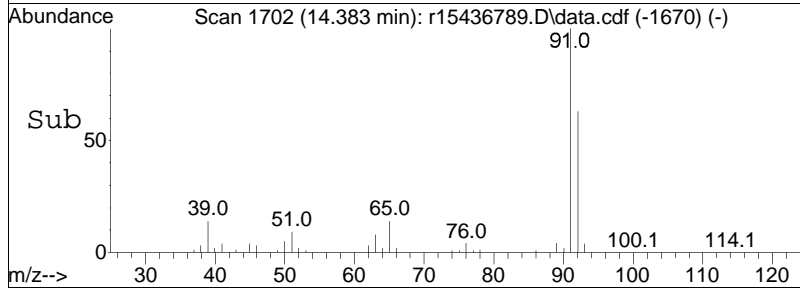
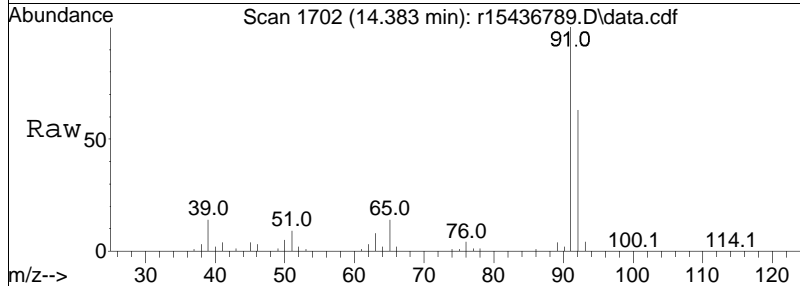
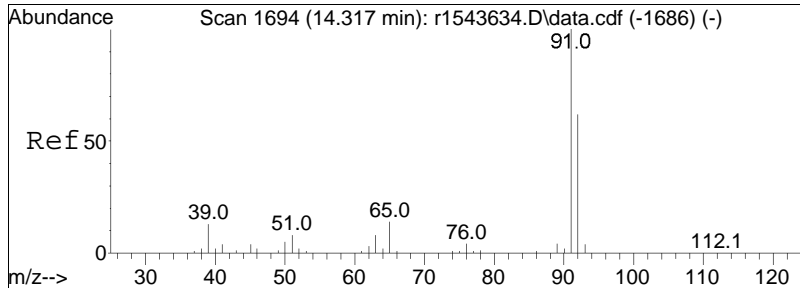




#66
 1,1,2-trichloroethane
 Concen: 9.33 ppbV
 RT: 14.083 min Scan# 1666
 Delta R.T. 0.075 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

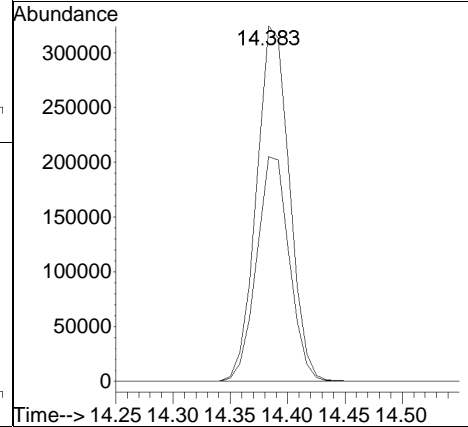
Tgt Ion	Resp	Lower	Upper
97	204700		
83	99.0	80.3	120.5
61	68.2	53.2	79.8

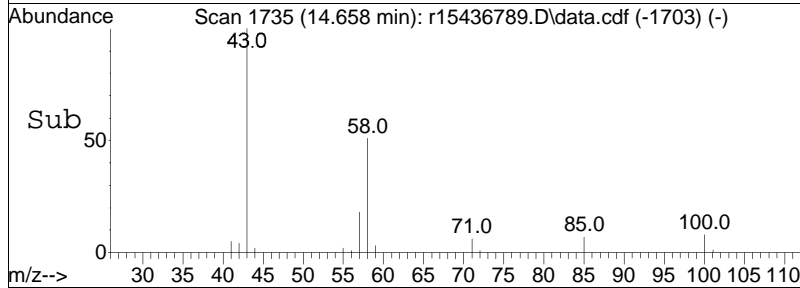
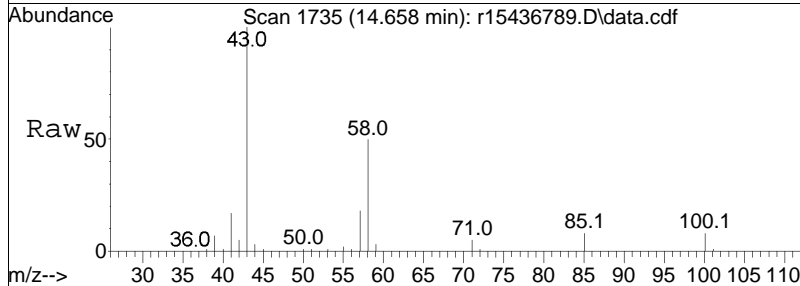
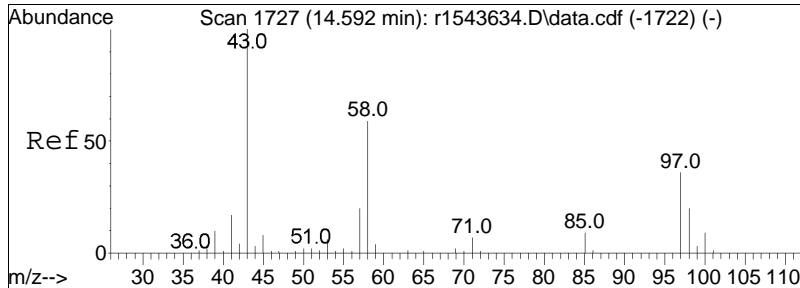




#68
 toluene
 Concen: 8.68 ppbV
 RT: 14.383 min Scan# 1702
 Delta R.T. 0.067 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

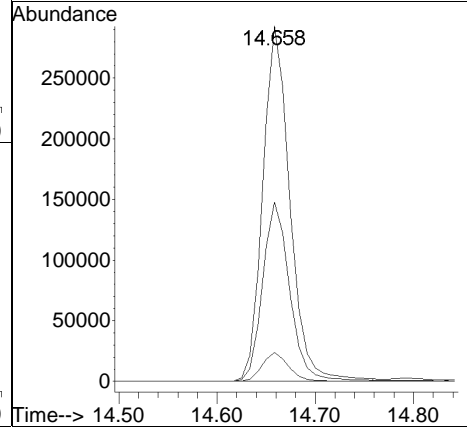
Tgt Ion: 91 Resp: 647853
 Ion Ratio Lower Upper
 91 100
 92 63.2 49.3 73.9

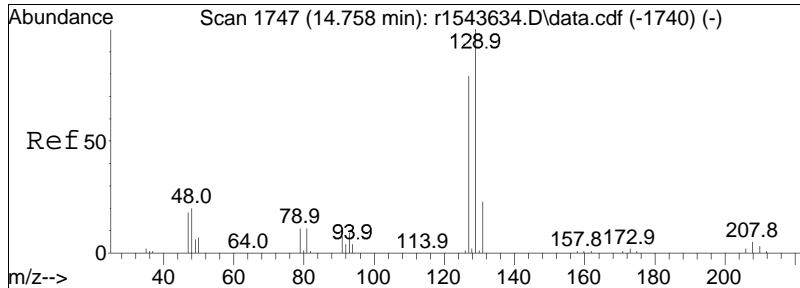




#72
 2-hexanone
 Concen: 10.72 ppbV
 RT: 14.658 min Scan# 1735
 Delta R.T. 0.067 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

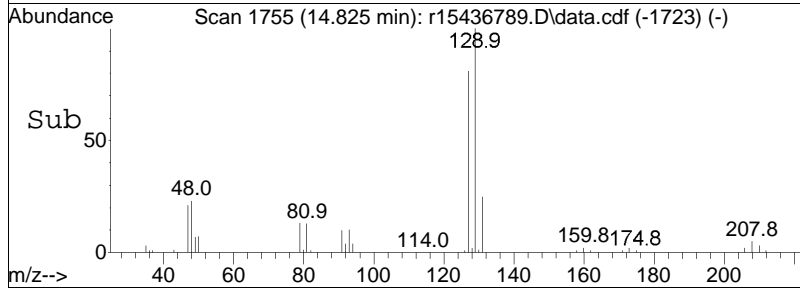
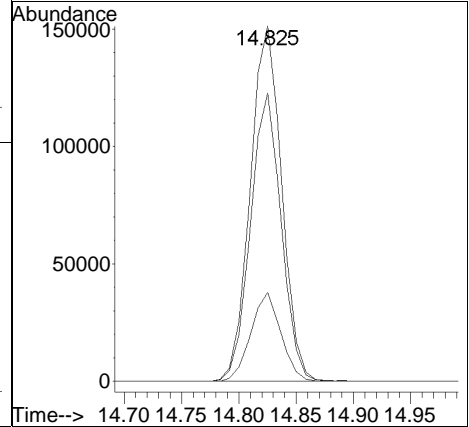
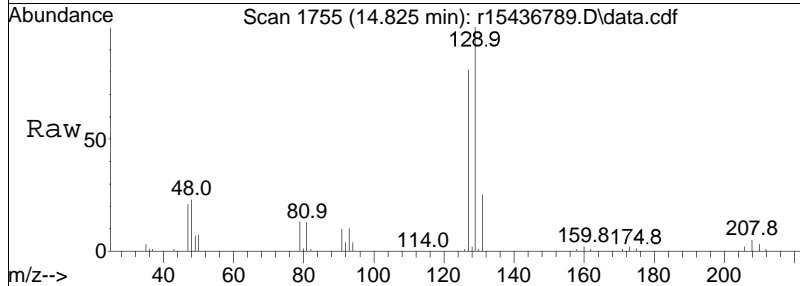
Tgt Ion:	43	58	100	Resp:	561973
Ion Ratio	100	50.5	8.1	Lower	Upper
		47.5	7.8		
		71.3	11.6		

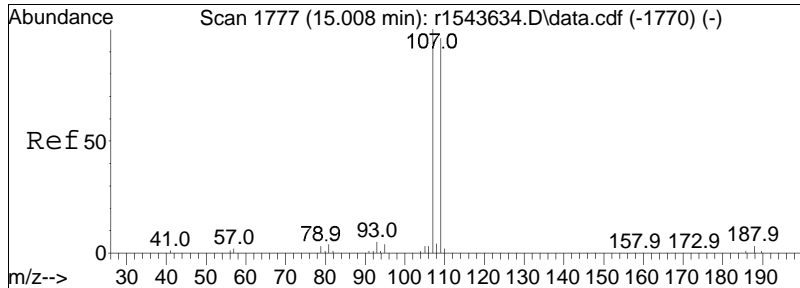




#74
 dibromochloromethane
 Concen: 9.73 ppbV
 RT: 14.825 min Scan# 1755
 Delta R.T. 0.067 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

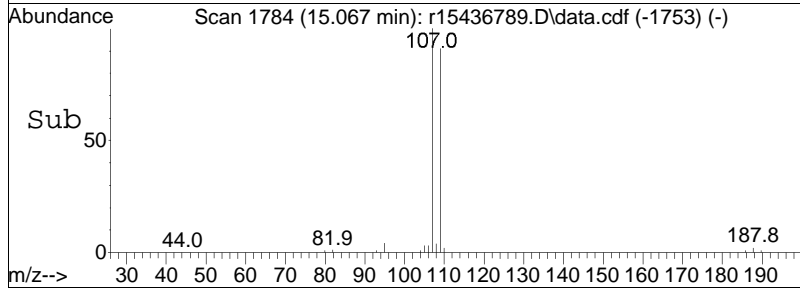
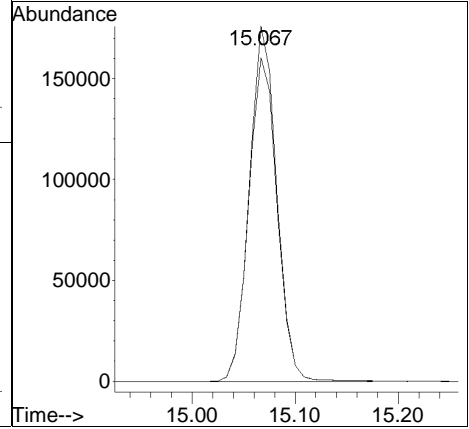
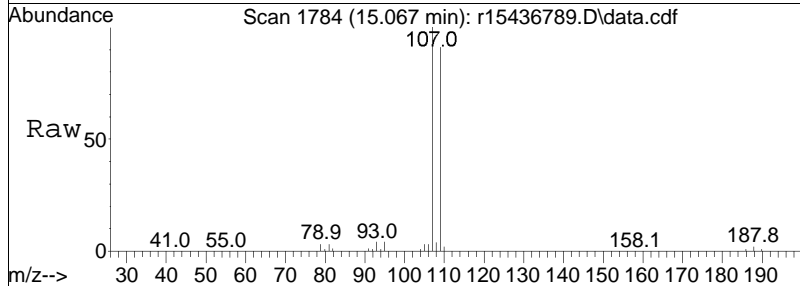
Tgt Ion	Ratio	Lower	Upper
129	100		
127	81.2	62.9	94.3
131	25.1	18.2	27.2

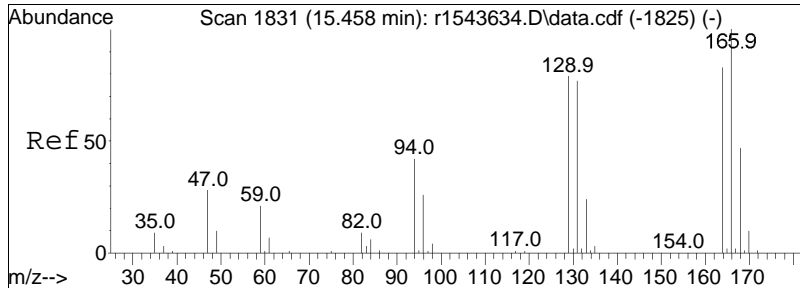




#75
 1,2-dibromoethane
 Concen: 9.61 ppbV
 RT: 15.067 min Scan# 1784
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

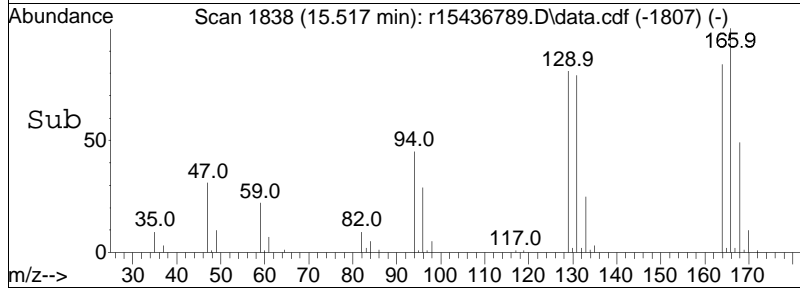
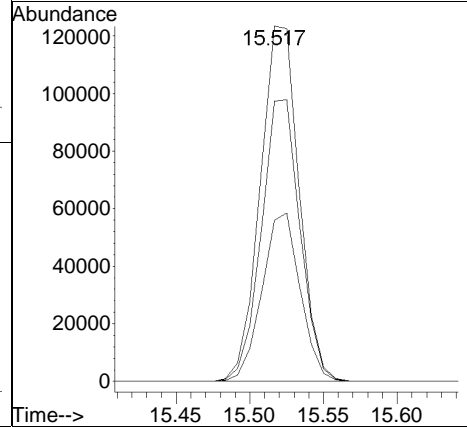
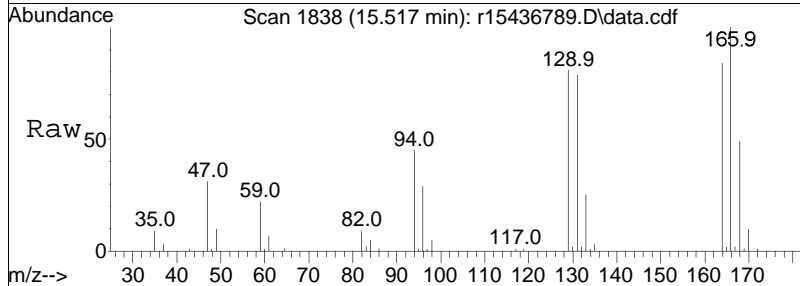
Tgt Ion	Resp	Lower	Upper
107	100		
109	91.1	76.6	115.0

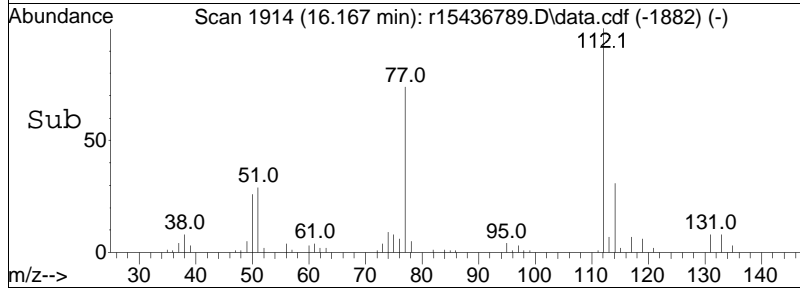
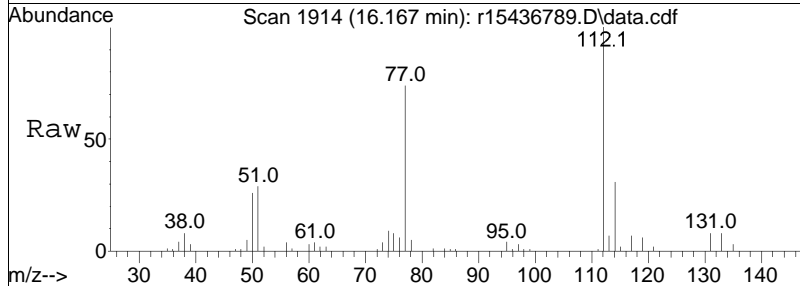
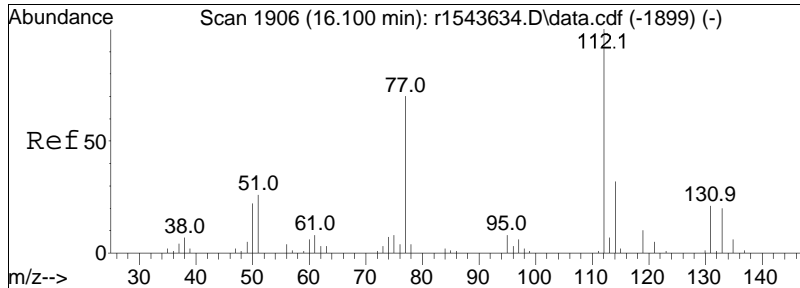




#78
 tetrachloroethene
 Concen: 8.77 ppbV
 RT: 15.517 min Scan# 1838
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

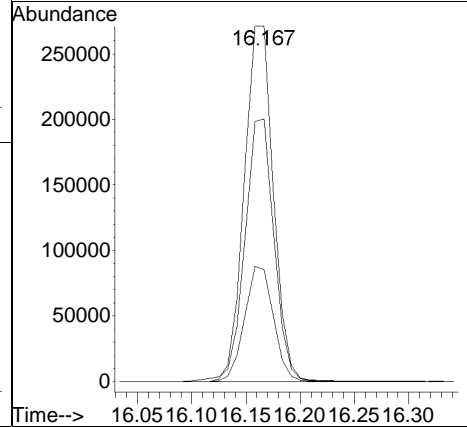
Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.9	61.6	92.4
94	45.4	34.0	51.0

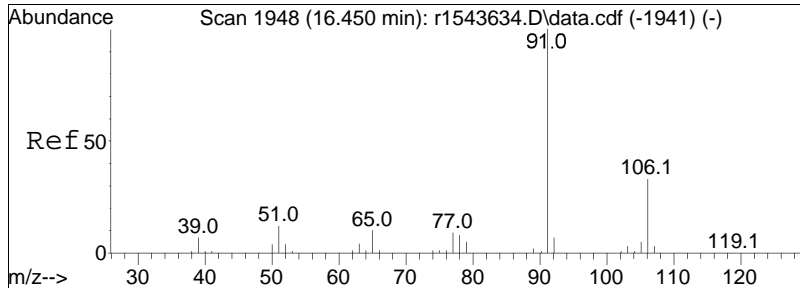




#80
 chlorobenzene
 Concen: 9.04 ppbV
 RT: 16.167 min Scan# 1914
 Delta R.T. 0.067 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

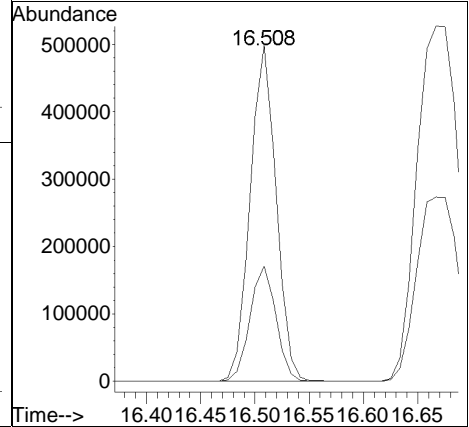
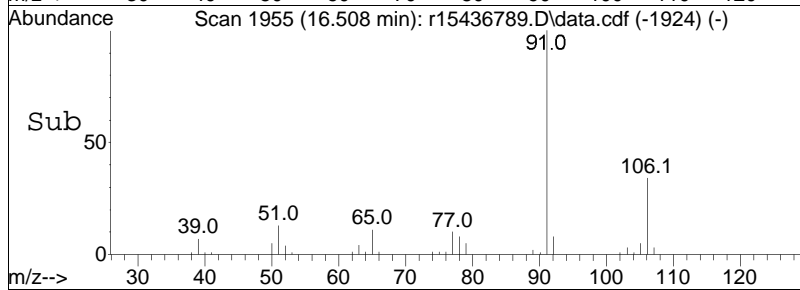
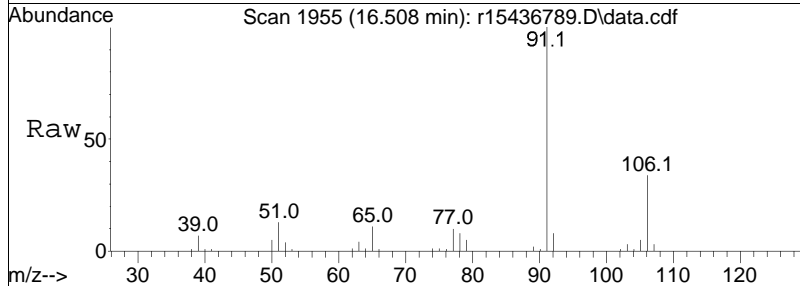
Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.3	37.9
77	73.9	56.3	84.5

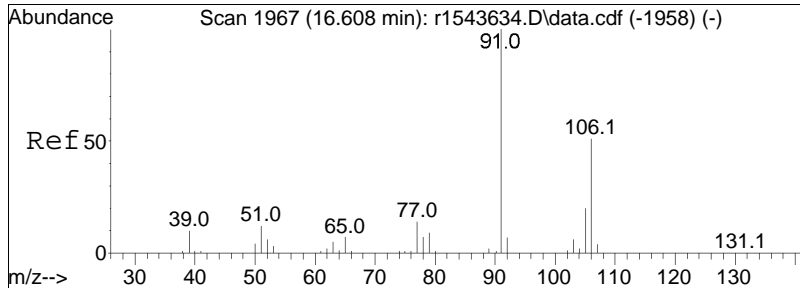




#81
 ethylbenzene
 Concen: 9.02 ppbV
 RT: 16.508 min Scan# 1955
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

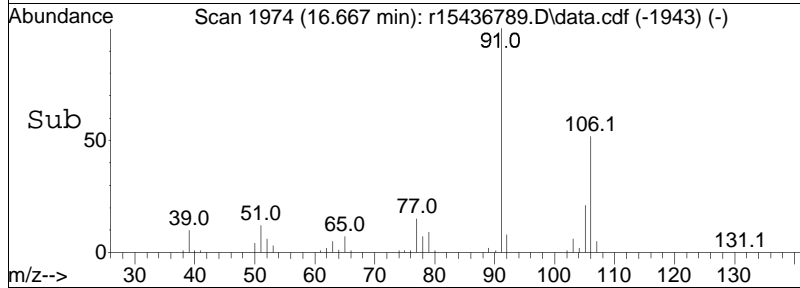
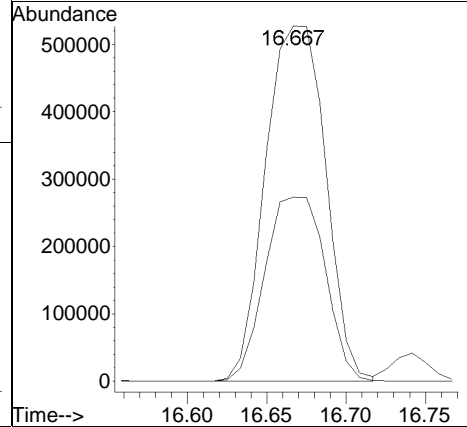
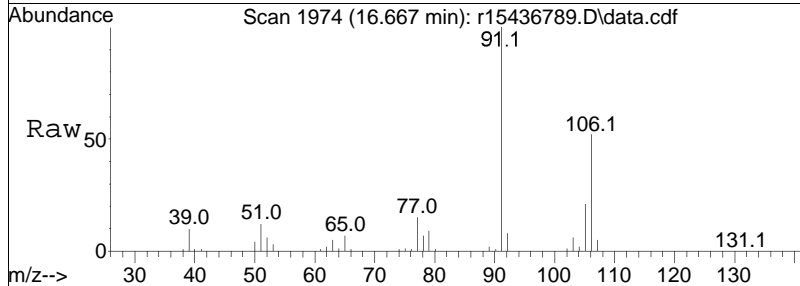
Tgt Ion: 91 Resp: 830413
 Ion Ratio Lower Upper
 91 100
 106 34.3 26.4 39.6

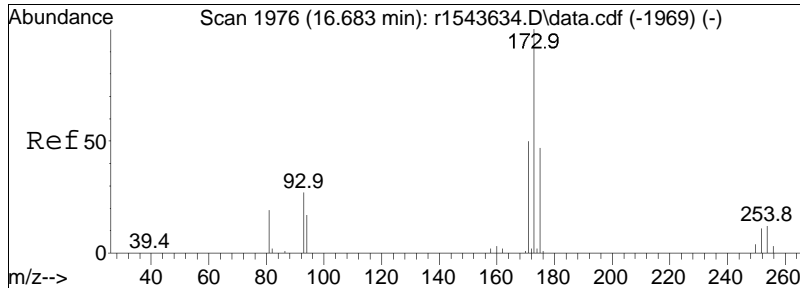




#83
 m+p-xylene
 Concen: 18.51 ppbV
 RT: 16.667 min Scan# 1974
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

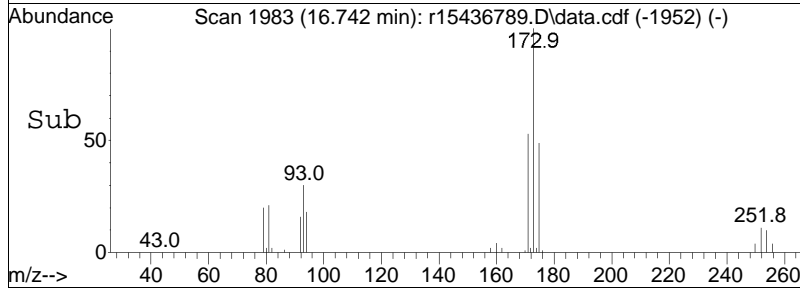
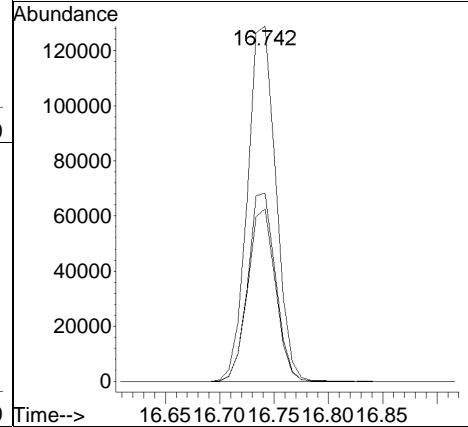
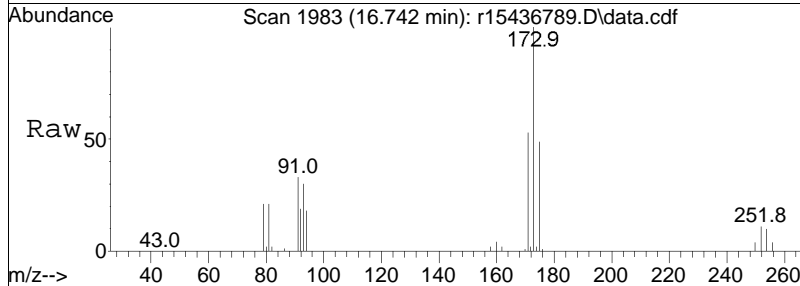
Tgt Ion: 91 Resp: 1387432
 Ion Ratio Lower Upper
 91 100
 106 51.9 40.4 60.6

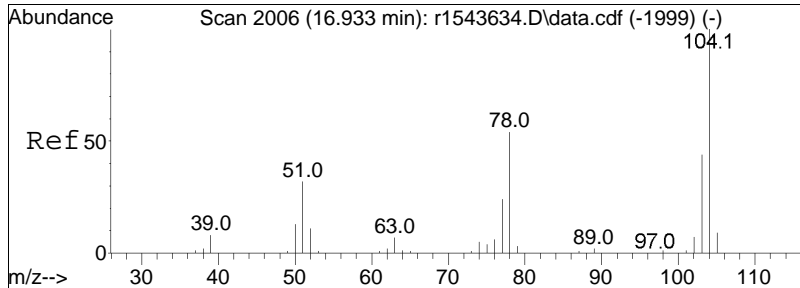




#84
 bromoform
 Concen: 9.93 ppbV
 RT: 16.742 min Scan# 1983
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

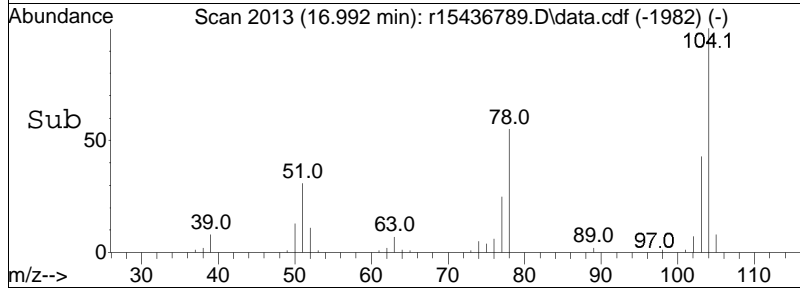
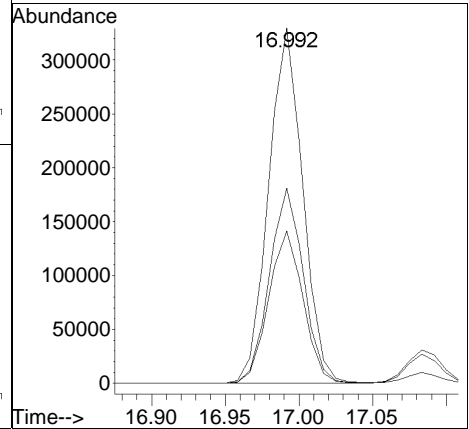
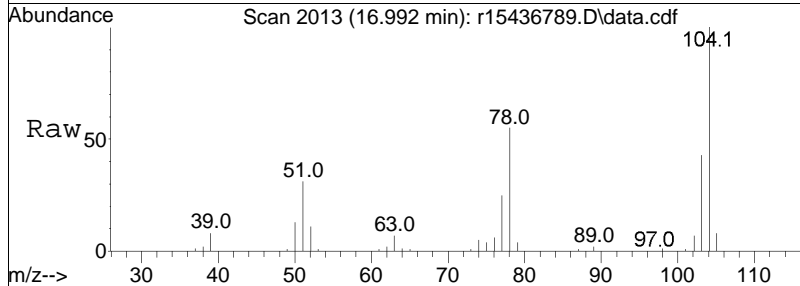
Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.6	37.9	56.9
171	53.0	40.2	60.2

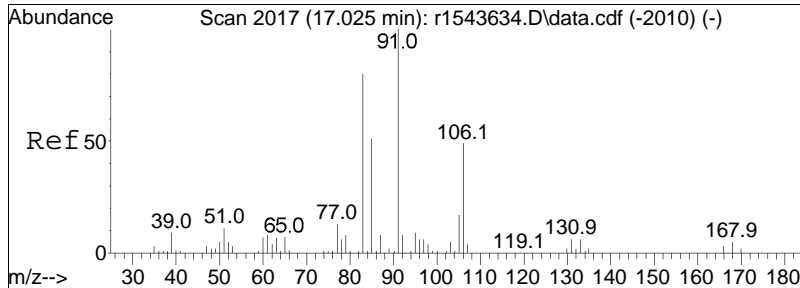




#85
 styrene
 Concen: 9.69 ppbV
 RT: 16.992 min Scan# 2013
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

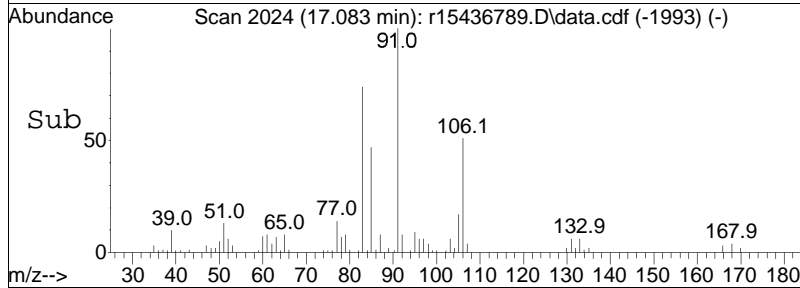
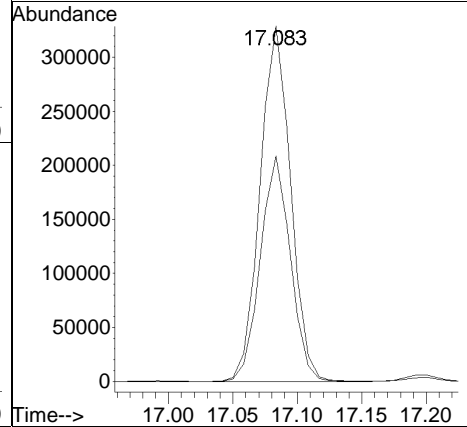
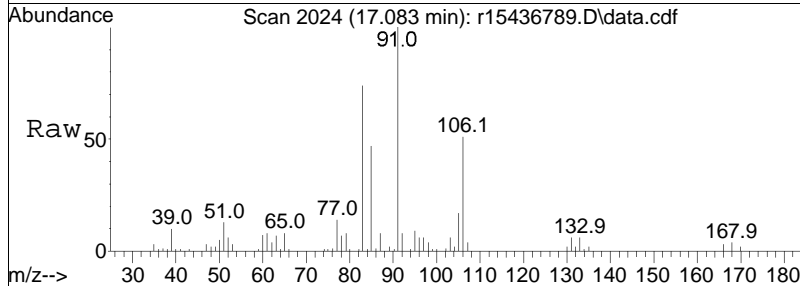
Tgt Ion	Ratio	Lower	Upper
104	100		
103	42.9	35.0	52.4
78	54.9	42.9	64.3

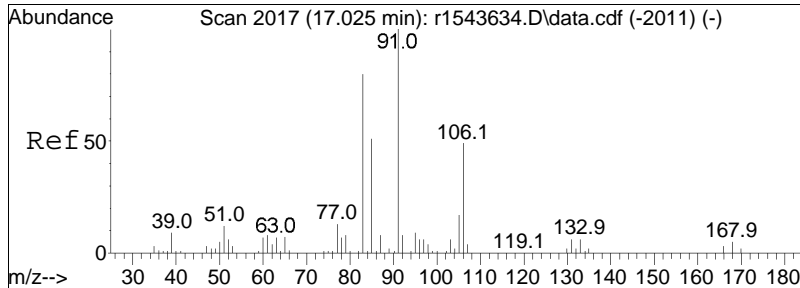




#86
 1,1,2,2-tetrachloroethane
 Concen: 9.36 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

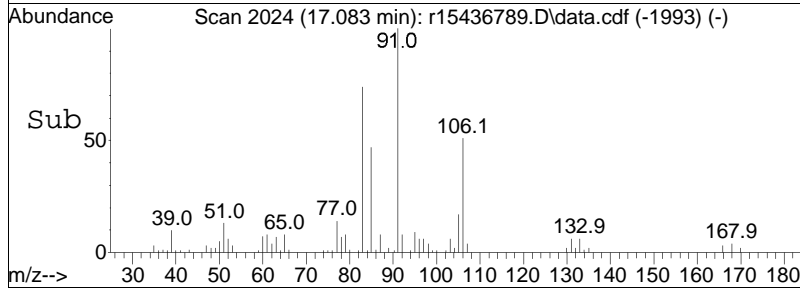
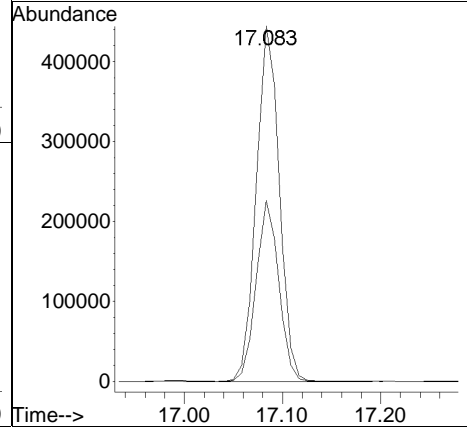
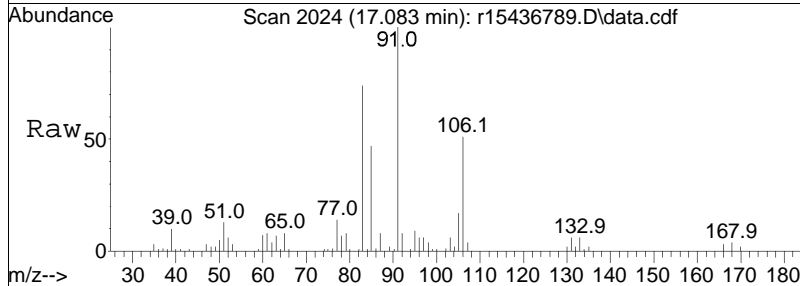
Tgt Ion: 83 Resp: 541088
 Ion Ratio Lower Upper
 83 100
 85 63.5 51.0 76.4

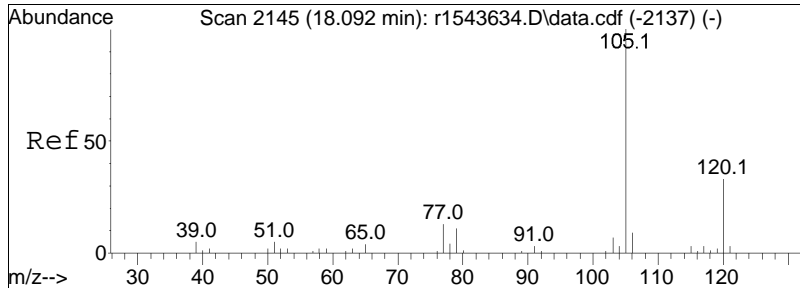




#87
 o-xylene
 Concen: 9.59 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

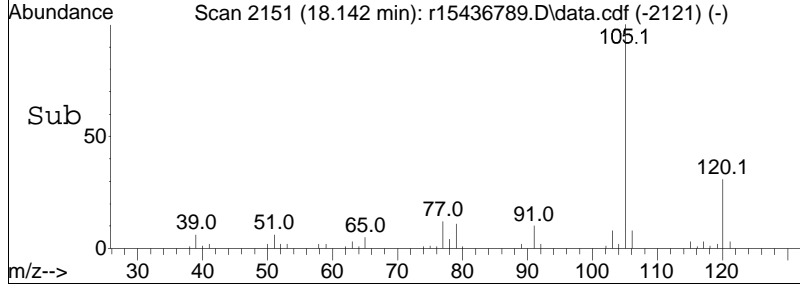
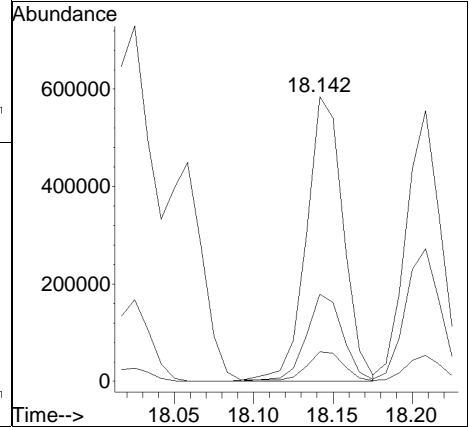
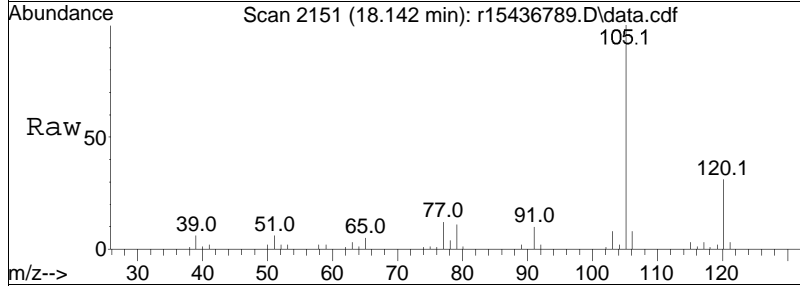
Tgt Ion	Resp	Lower	Upper
91	100		
106	50.9	39.1	58.7

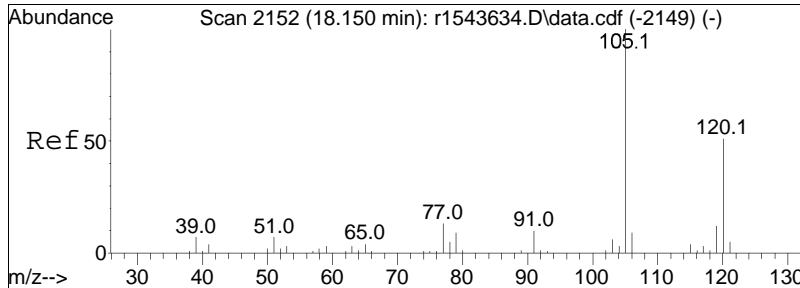




#96
 4-ethyl toluene
 Concen: 9.62 ppbV
 RT: 18.142 min Scan# 2151
 Delta R.T. 0.050 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

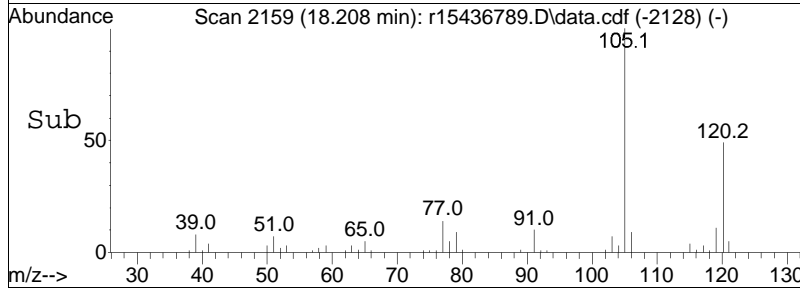
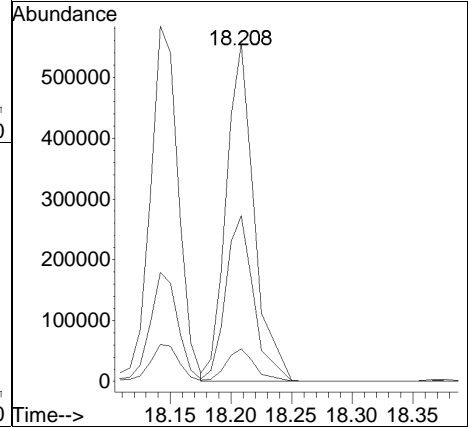
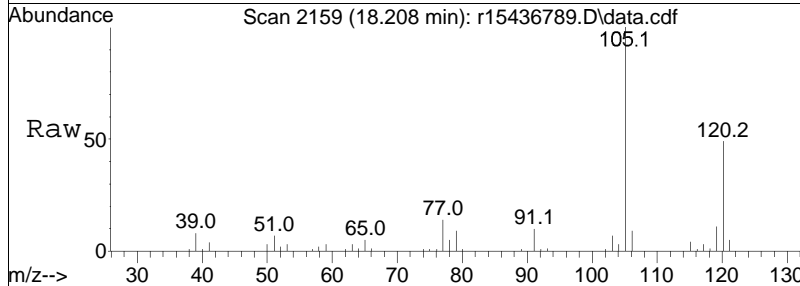
Tgt Ion	Ratio	Lower	Upper
105	100		
120	30.7	26.1	39.1
91	10.4	8.2	12.4

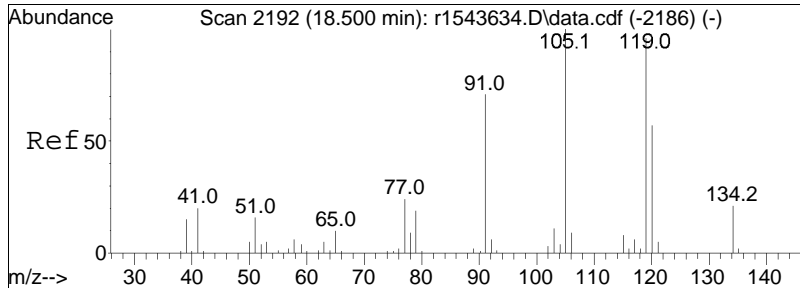




#97
 1,3,5-trimethylbenzene
 Concen: 10.12 ppbV
 RT: 18.208 min Scan# 2159
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

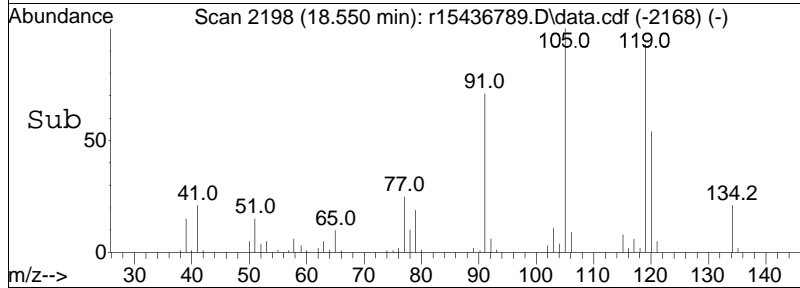
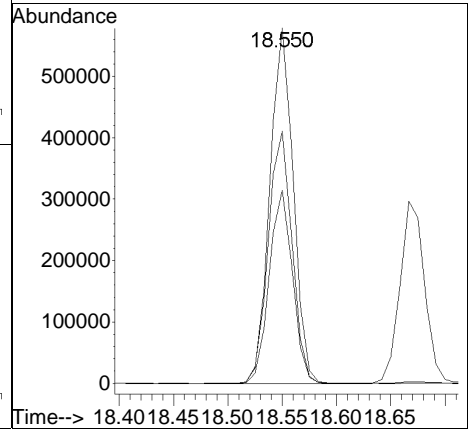
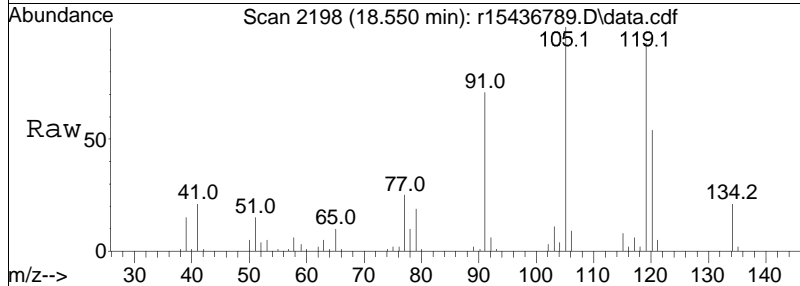
Tgt Ion	Ratio	Lower	Upper
105	100		
120	49.0	40.9	61.3
91	9.7	7.9	11.9

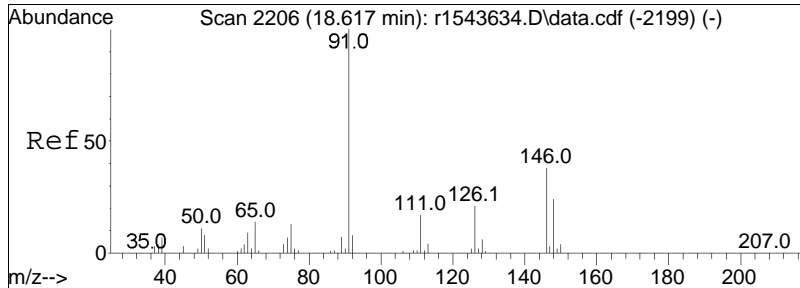




#99
 1,2,4-trimethylbenzene
 Concen: 9.99 ppbV
 RT: 18.550 min Scan# 2198
 Delta R.T. 0.050 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

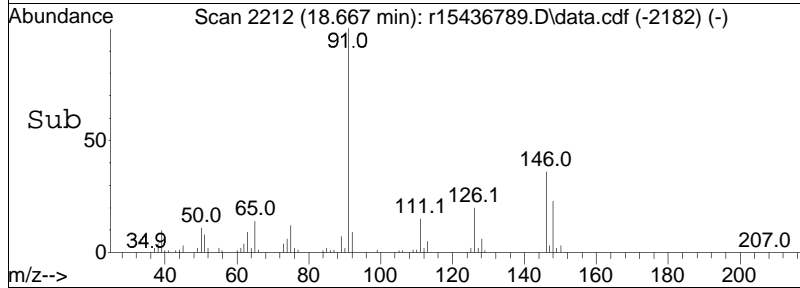
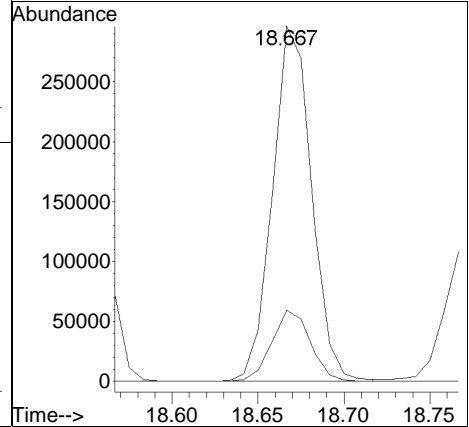
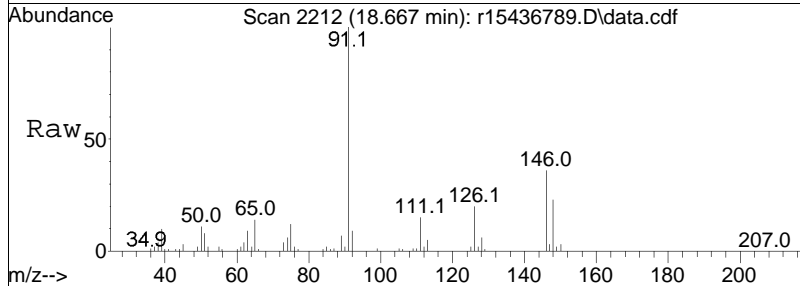
Tgt Ion	Ratio	Lower	Upper
105	100		
120	54.4	45.8	68.8
91	70.9	56.7	85.1

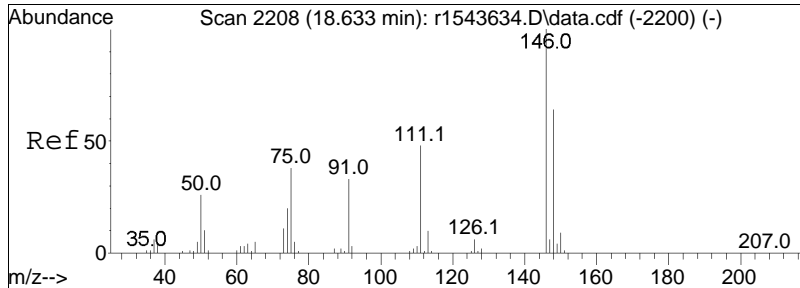




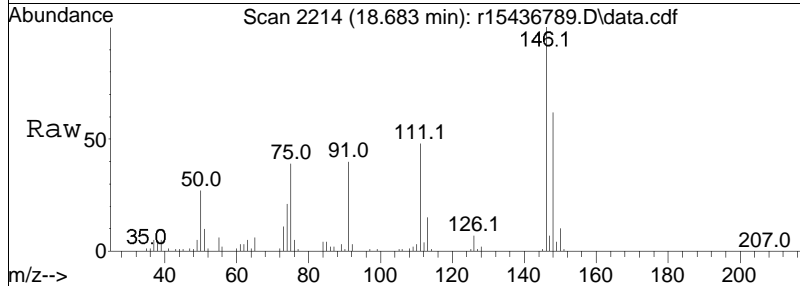
#101
 Benzyl Chloride
 Concen: 8.85 ppbV
 RT: 18.667 min Scan# 2212
 Delta R.T. 0.050 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

Tgt Ion: 91 Resp: 467149
 Ion Ratio Lower Upper
 91 100
 126 20.0 16.5 24.7

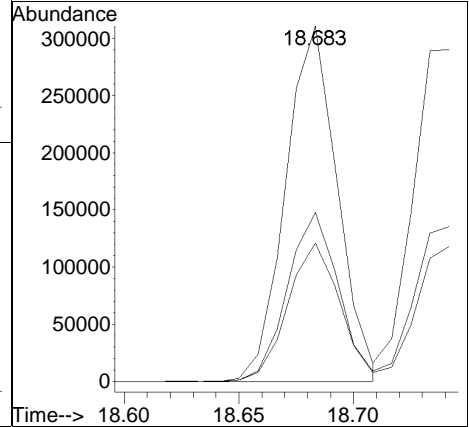
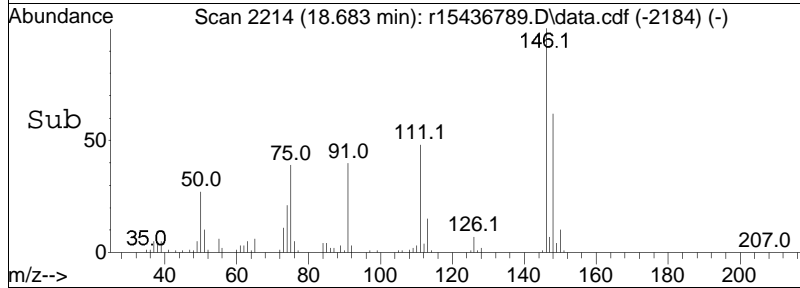


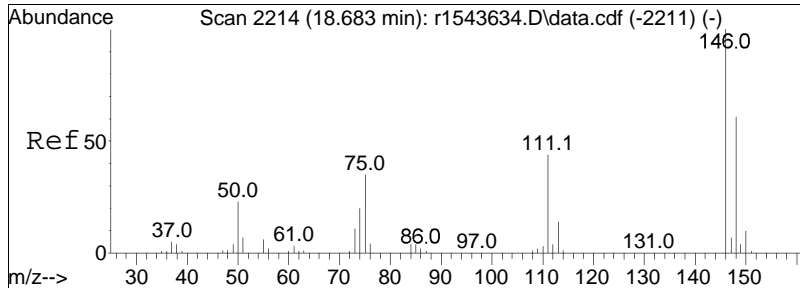


#102
 1,3-dichlorobenzene
 Concen: 9.65 ppbV
 RT: 18.683 min Scan# 2214
 Delta R.T. 0.050 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM



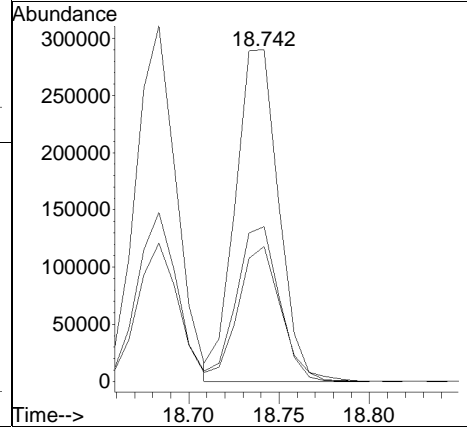
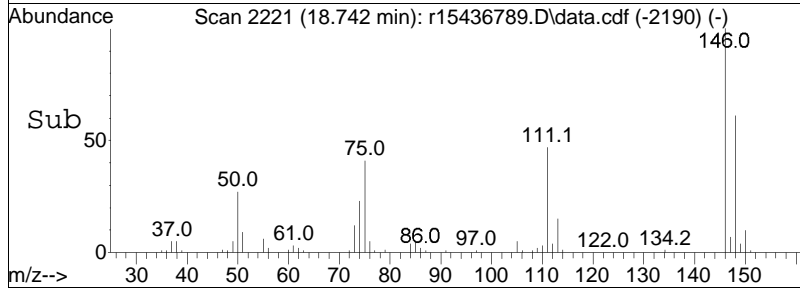
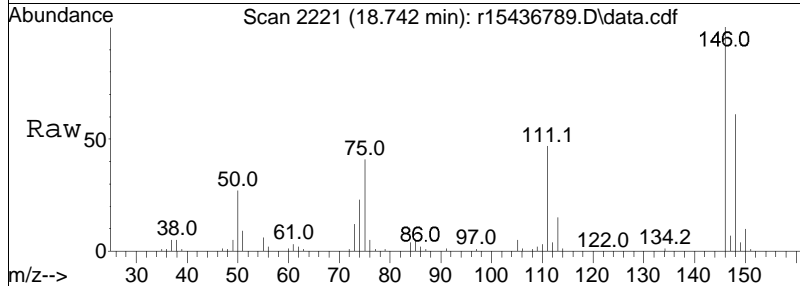
Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.5	38.6	57.8
75	38.9	30.5	45.7

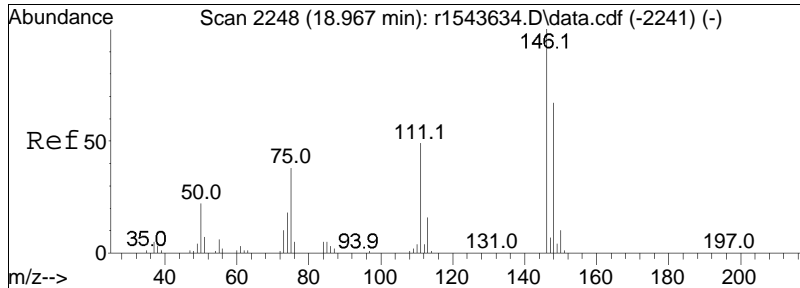




#103
 1,4-dichlorobenzene
 Concen: 9.64 ppbV m
 RT: 18.742 min Scan# 2221
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

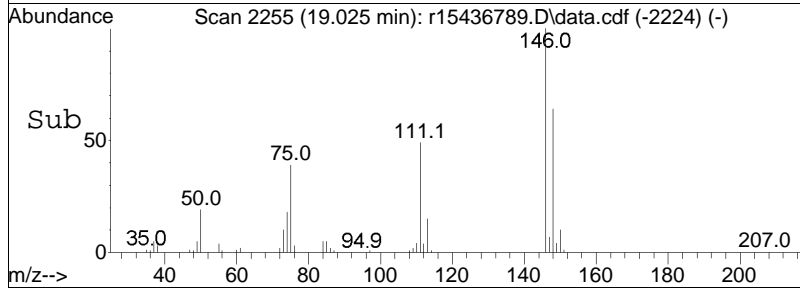
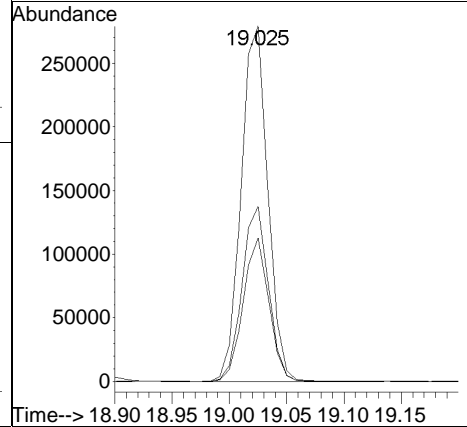
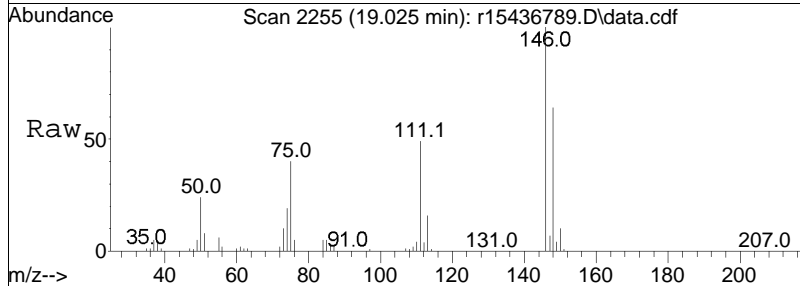
Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.7	35.4	53.0
75	40.7	28.4	42.6

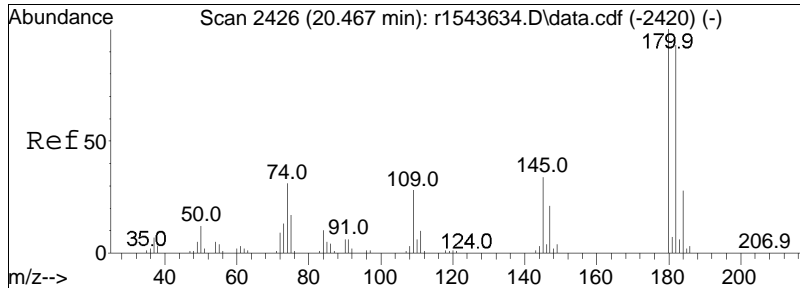




#107
 1,2-dichlorobenzene
 Concen: 9.61 ppbV
 RT: 19.025 min Scan# 2255
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

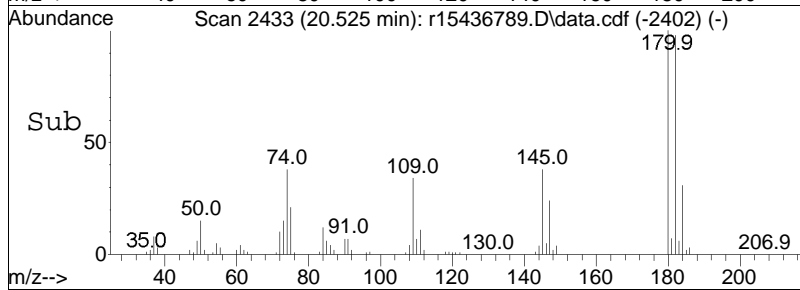
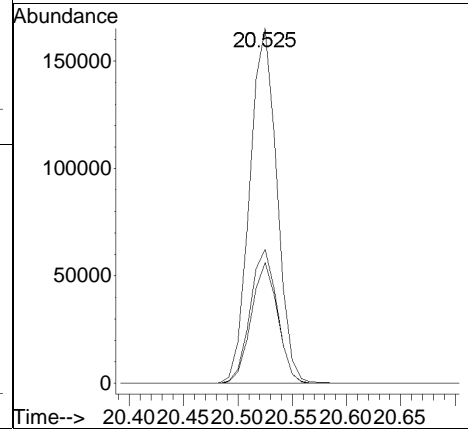
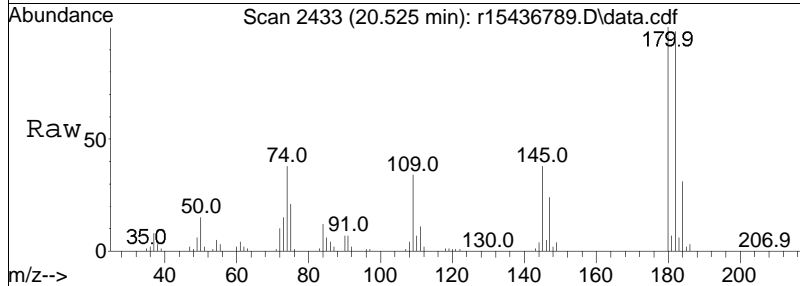
Tgt Ion	Ratio	Lower	Upper
146	100		
111	49.3	38.9	58.3
75	40.4	30.2	45.4

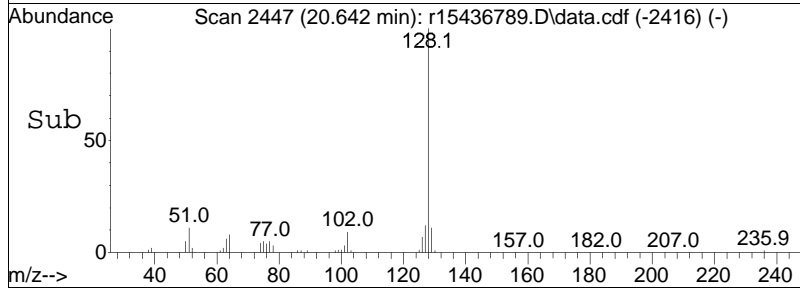
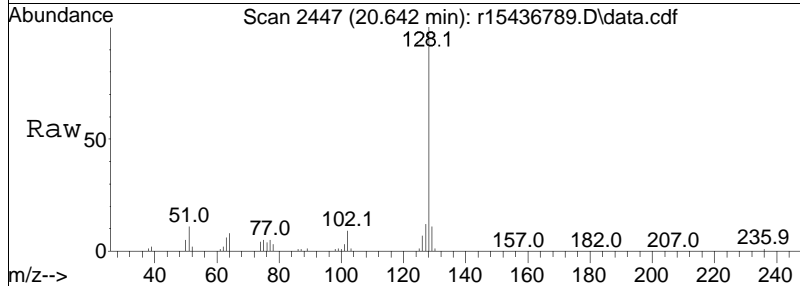
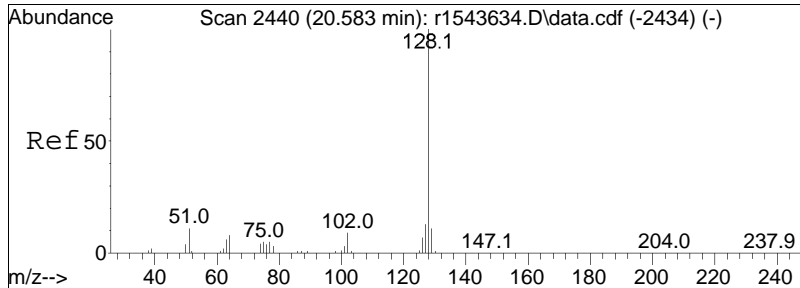




#115
 1,2,4-trichlorobenzene
 Concen: 8.38 ppbV
 RT: 20.525 min Scan# 2433
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

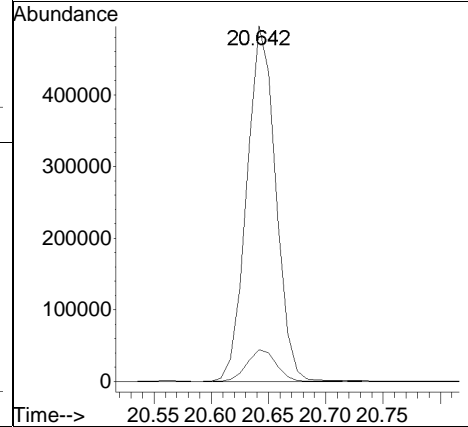
Tgt Ion	Ratio	Lower	Upper
180	100		
145	37.8	27.4	41.0
109	34.0	22.5	33.7#

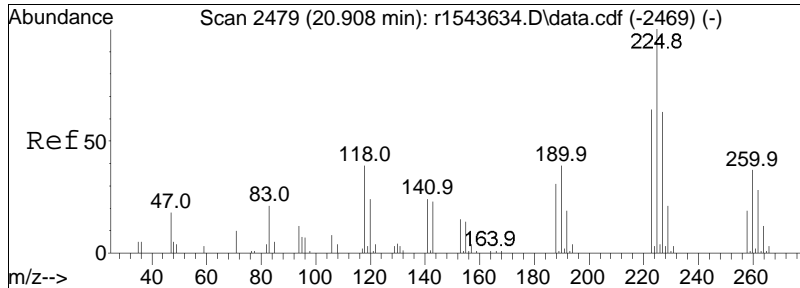




#116
 naphthalene
 Concen: 9.13 ppbV
 RT: 20.642 min Scan# 2447
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

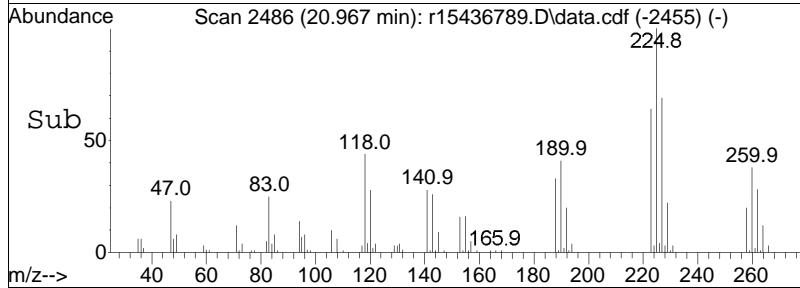
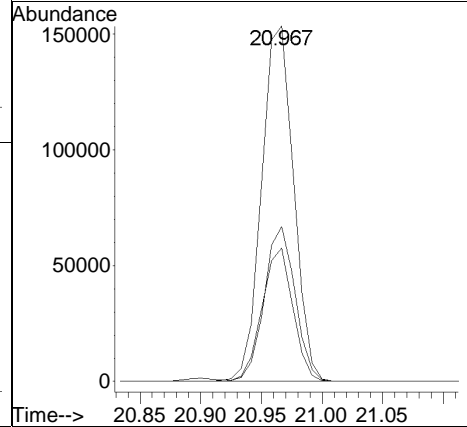
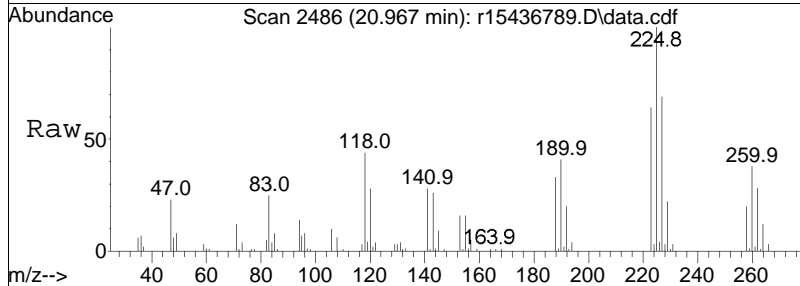
Tgt Ion	Ratio	Lower	Upper
128	100		
102	8.9	6.8	10.2





#119
 hexachlorobutadiene
 Concen: 8.90 ppbV
 RT: 20.967 min Scan# 2486
 Delta R.T. 0.058 min
 Lab File: r15436789.D
 Acq: 29 Mar 2024 1:29 PM

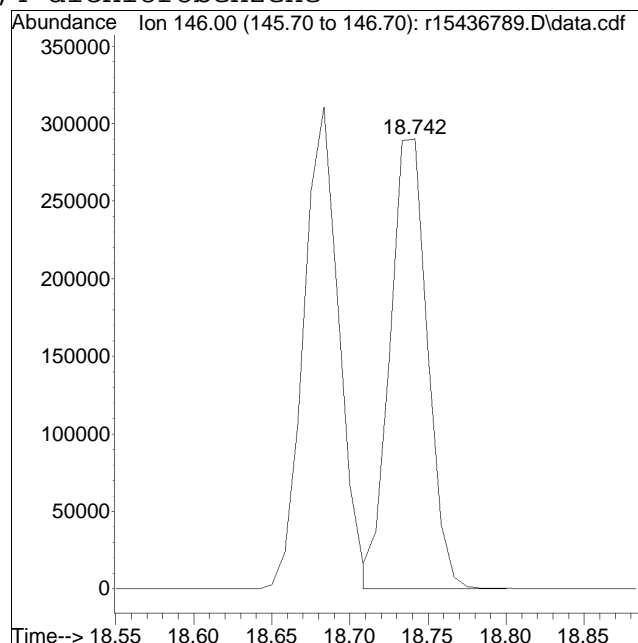
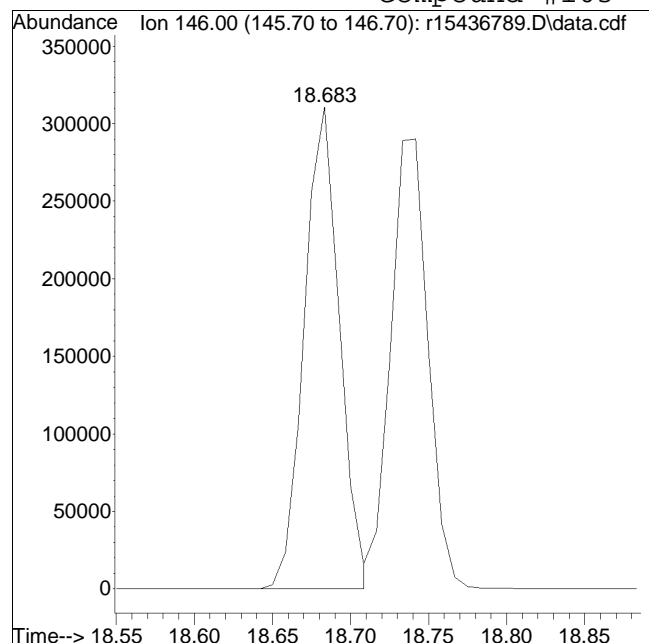
Tgt Ion	Ratio	Lower	Upper
225	100		
260	37.5	29.8	44.6
118	43.6	31.1	46.7



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436789.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:1: 9 Instrument :
Sample : WG1902670-3,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #103: 1,4-dichlorobenzene



Original Peak Response = 487561

Manual Peak Response = 484130 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223430.D
 Acq On : 28 Mar 2024 10:47 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-5,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:42:35 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.463	49	225407	10.000	ppbV	0.01
Standard Area =	222450		Recovery =	101.33%		
43) 1,4-difluorobenzene	5.390	114	680730	10.000	ppbV	0.01
Standard Area =	633782		Recovery =	107.41%		
67) chlorobenzene-D5	7.353	54	97586	10.000	ppbV #	0.00
Standard Area =	85965		Recovery =	113.52%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.220	85	8625	0.475	ppbV	99
6) chloromethane	2.320	50	7357	0.747	ppbV	97
7) Freon-114	2.380		0	N.D.		
10) 1,3-butadiene	2.520		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.809	31	8071964	2229.539	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	3.022	43	37614943	5186.846	ppbV #	57
21) trichlorofluoromethane	0.000		0	N.D.	d	
22) isopropyl alcohol	3.124	45	11959404	994.674	ppbV	97
27) tertiary butyl alcohol	3.390	59	63978	2.362	ppbV #	86
28) methylene chloride	3.435	49	4971	0.278	ppbV	93
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	3.570	76	5631	0.114	ppbV #	49
31) Freon 113	3.555	101	1898	0.070	ppbV	95
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	4.003		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
38) Ethyl Acetate	4.483	61	1777106	312.072	ppbV #	1
39) chloroform	4.530	83	34130	1.321	ppbV	99
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	4.883		0	N.D.		
44) hexane	0.000		0	N.D.	d	
50) benzene	5.223	78	14860	0.293	ppbV	94
53) cyclohexane	5.357	56	2678	0.097	ppbV #	78
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223430.D
 Acq On : 28 Mar 2024 10:47 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-5,3,250,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 07:42:35 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+NAPH-7-SIM - .

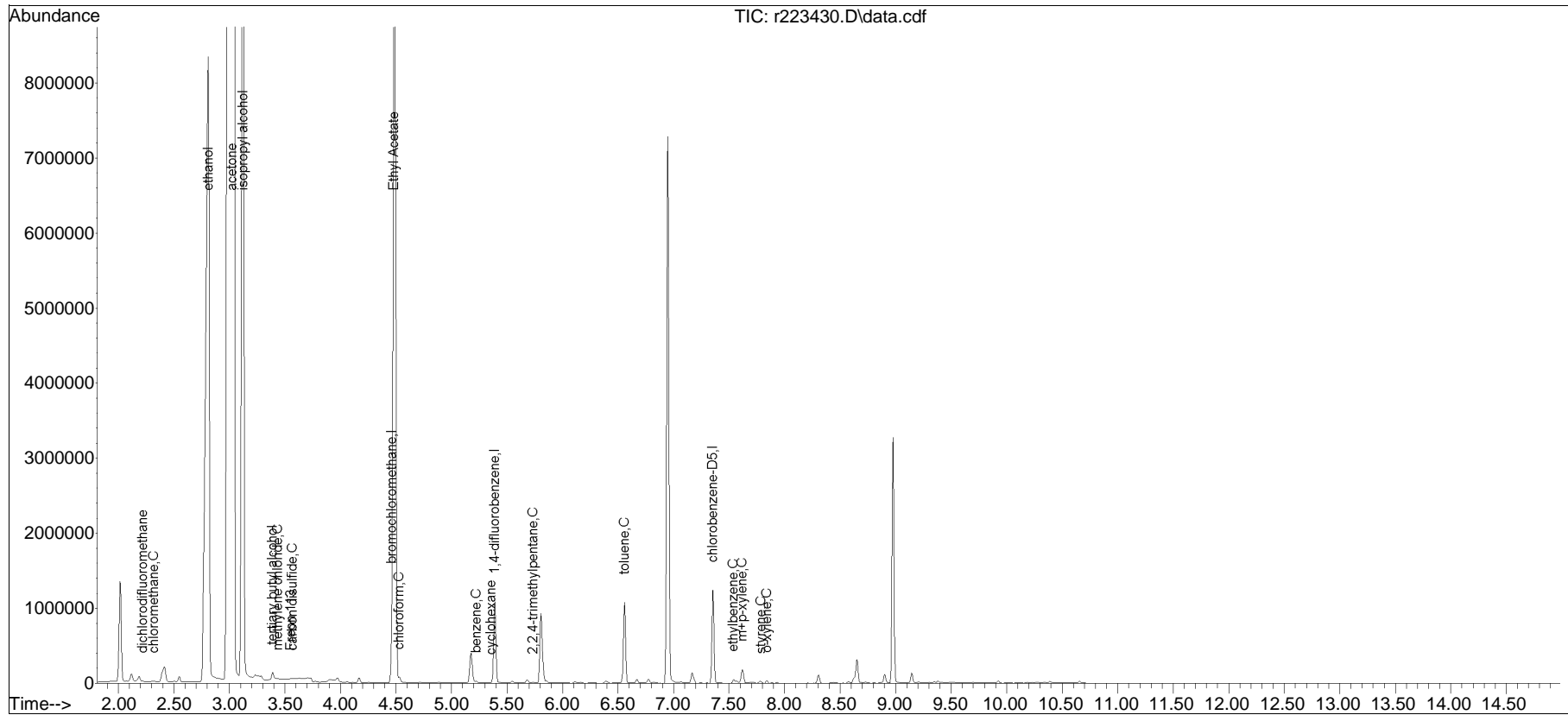
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	5.703		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	5.737	57	7298	0.095	ppbV #	87
62) heptane	0.000		0		N.D. d	
63) cis-1,3-dichloropropene	6.113		0		N.D.	
64) 4-methyl-2-pentanone	0.000		0		N.D. d	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.560	91	591111	7.262	ppbV	99
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
80) chlorobenzene	7.373		0		N.D.	
81) ethylbenzene	7.540	91	26777	0.272	ppbV	94
83) m+p-xylene	7.620	91	93027	1.213	ppbV	92
84) bromoform	0.000		0		N.D.	
85) styrene	7.787	104	4877	0.071	ppbV #	89
86) 1,1,2,2-tetrachloroethane	7.720		0		N.D.	
87) o-xylene	7.840	91	16186	0.216	ppbV	91
96) 4-ethyl toluene	8.420		0		N.D.	
97) 1,3,5-trimethylbenzene	8.473		0		N.D.	
99) 1,2,4-trimethylbenzene	8.683		0		N.D.	
101) Benzyl Chloride	0.000		0		N.D. d	
102) 1,3-dichlorobenzene	8.803		0		N.D.	
103) 1,4-dichlorobenzene	8.803		0		N.D.	
107) 1,2-dichlorobenzene	0.000		0		N.D.	
115) 1,2,4-trichlorobenzene	0.000		0		N.D.	
116) naphthalene	9.925		0		N.D.	
119) hexachlorobutadiene	0.000		0		N.D.	

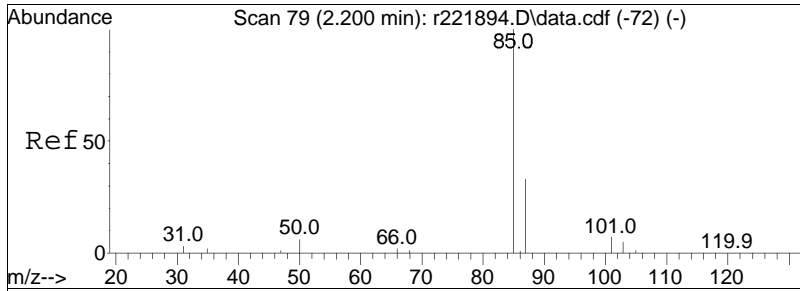
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY+NAPH-7-SIM - .ab22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223430.D
Acq On : 28 Mar 2024 10:47 PM
Operator : AIRLAB22:JMB
Sample : WG1902103-5,3,250,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

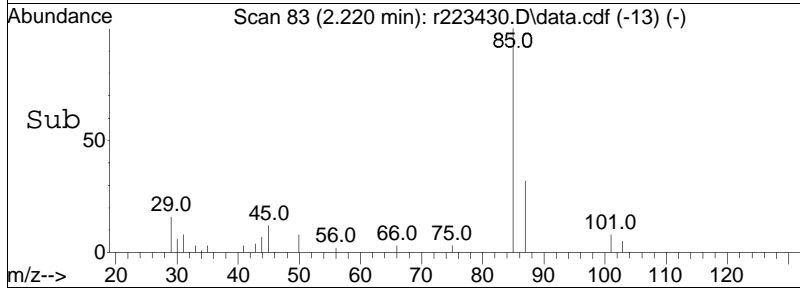
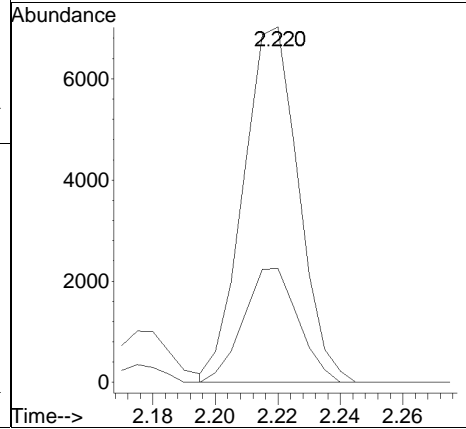
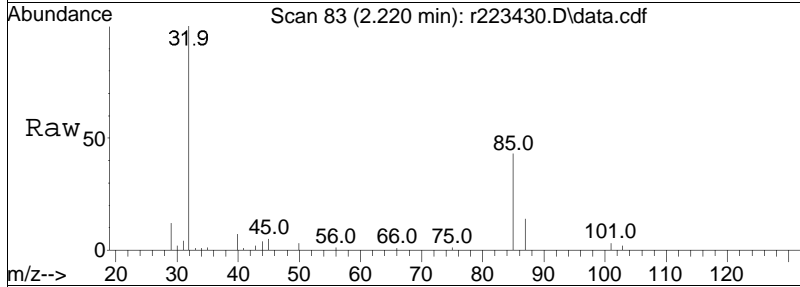
Quant Time: Mar 29 07:42:35 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

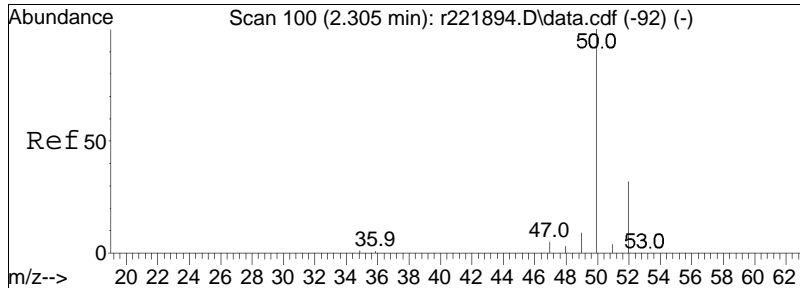




#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 2.220 min Scan# 83
Delta R.T. 0.020 min
Lab File: r223430.D
Acq: 28 Mar 2024 10:47 PM

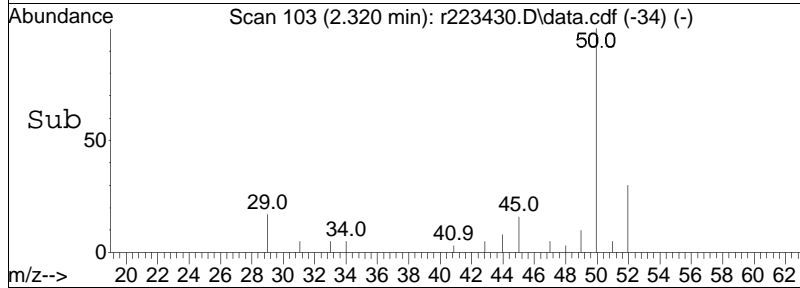
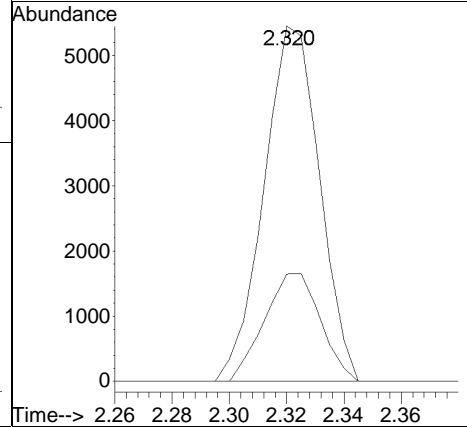
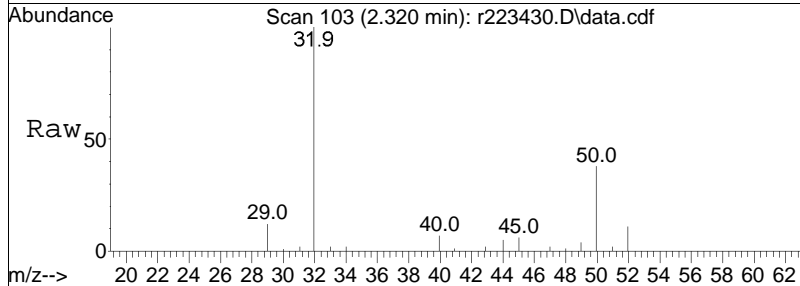
Tgt Ion: 85 Resp: 8625
Ion Ratio Lower Upper
85 100
87 32.1 26.3 39.5

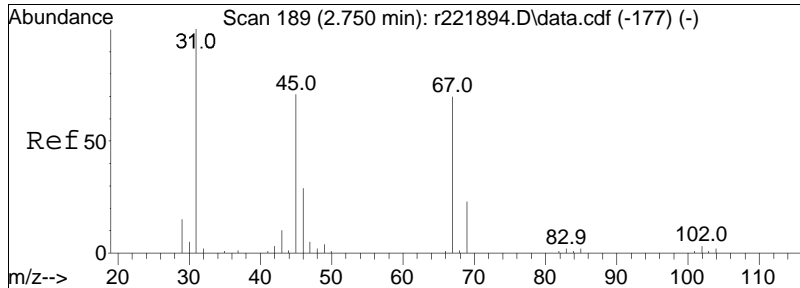




#6
 chloromethane
 Concen: 0.75 ppbV
 RT: 2.320 min Scan# 103
 Delta R.T. 0.015 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

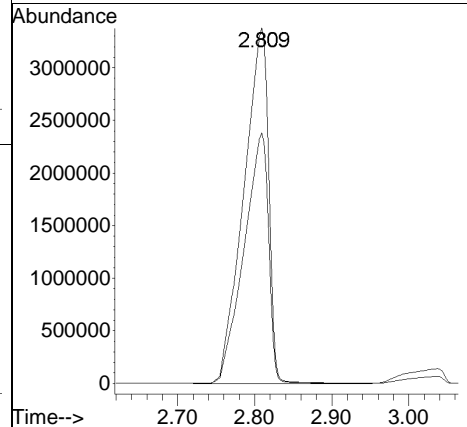
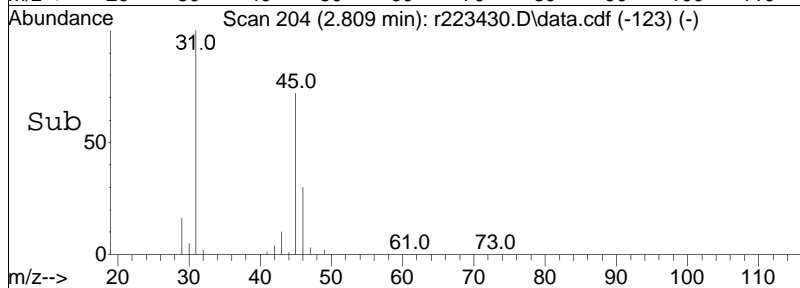
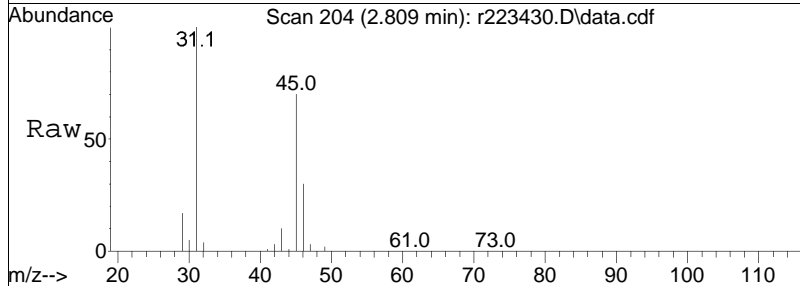
Tgt Ion	Resp	Lower	Upper
50	100		
52	30.2	25.5	38.3

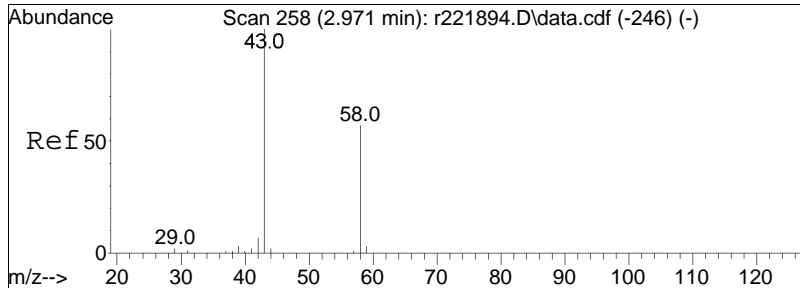




#15
 ethanol
 Concen: 2229.54 ppbV
 RT: 2.809 min Scan# 204
 Delta R.T. 0.059 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

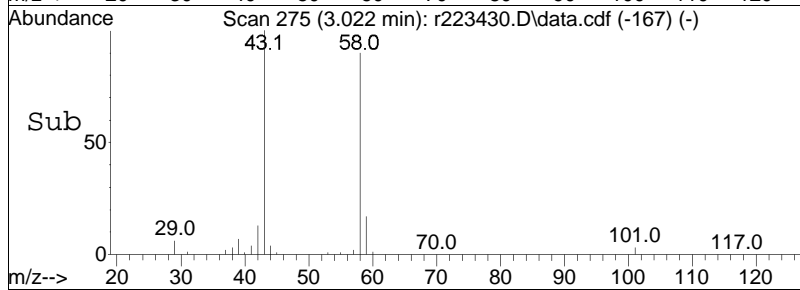
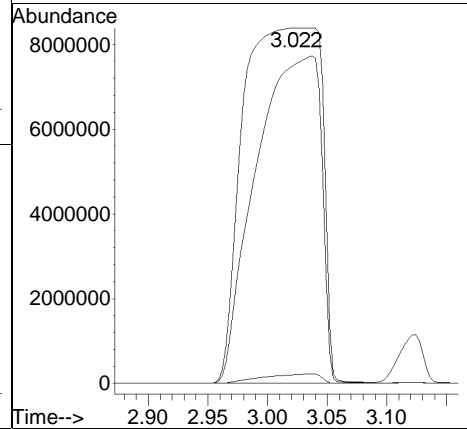
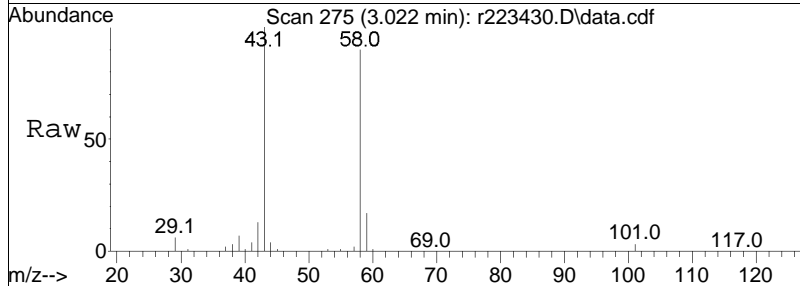
Tgt Ion: 31 Resp: 8071964
 Ion Ratio Lower Upper
 31 100
 45 70.5 56.6 84.8

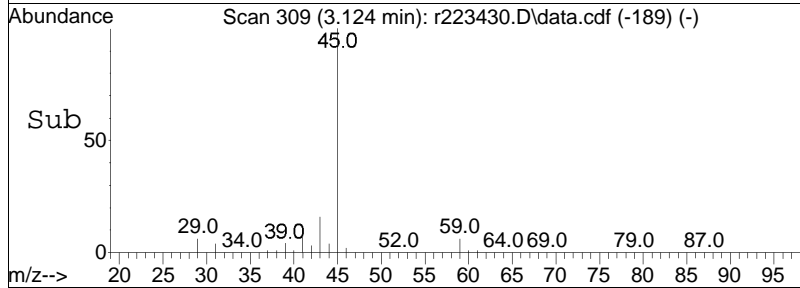
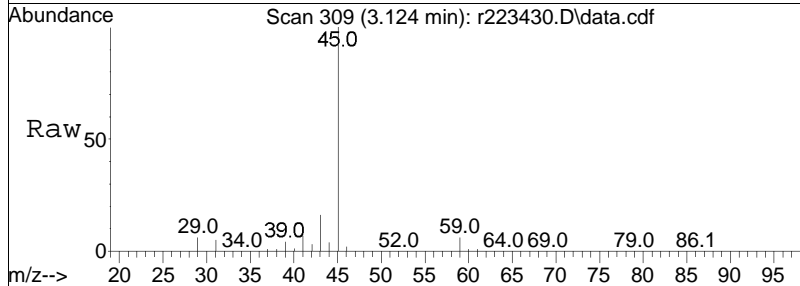
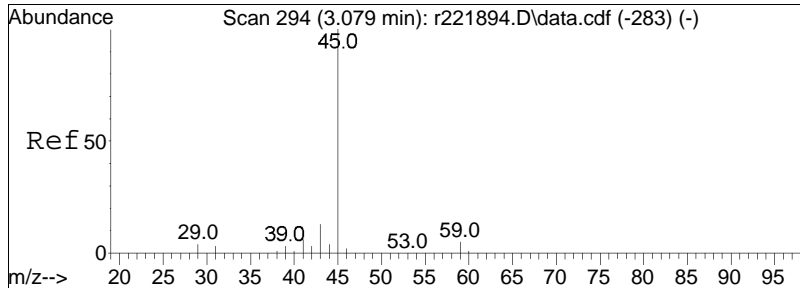




#19
 acetone
 Concen: 5186.85 ppbV
 RT: 3.022 min Scan# 275
 Delta R.T. 0.051 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

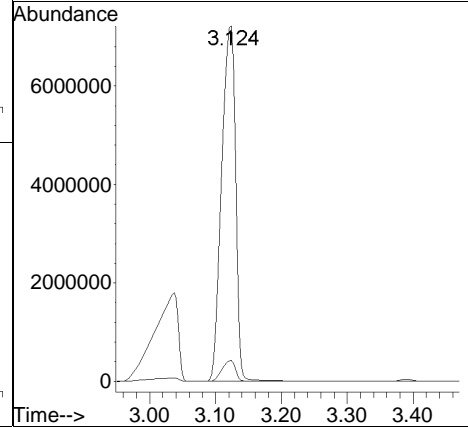
Tgt Ion	Resp	Lower	Upper
43	37614943		
43	100		
58	89.6	45.5	68.3#
57	2.4	1.0	1.6#

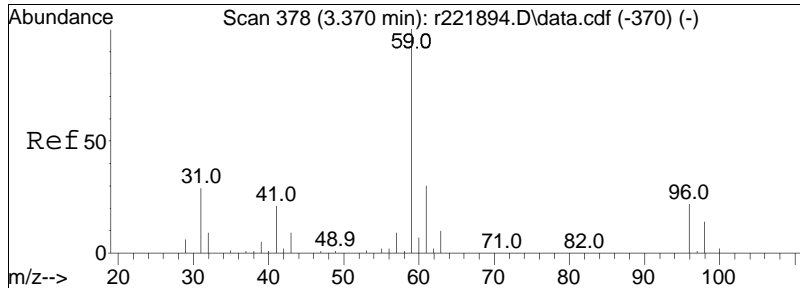




#22
 isopropyl alcohol
 Concen: 994.67 ppbV
 RT: 3.124 min Scan# 309
 Delta R.T. 0.045 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

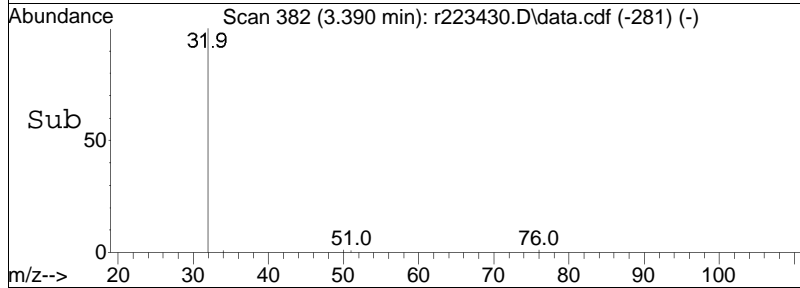
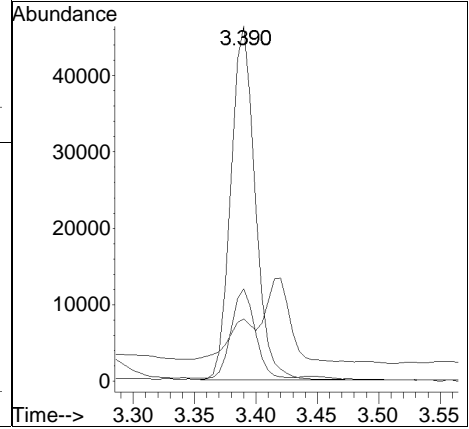
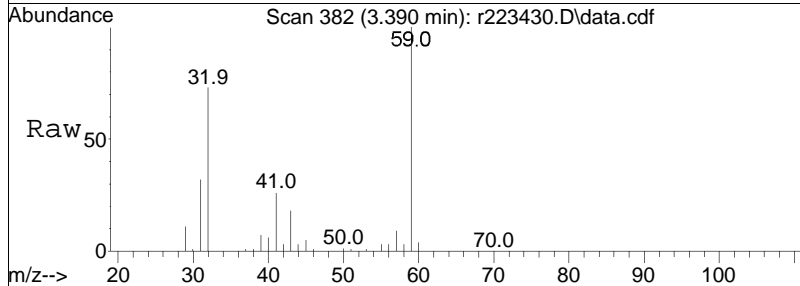
Tgt Ion: 45 Resp:11959404
 Ion Ratio Lower Upper
 45 100
 59 5.9 4.0 6.0

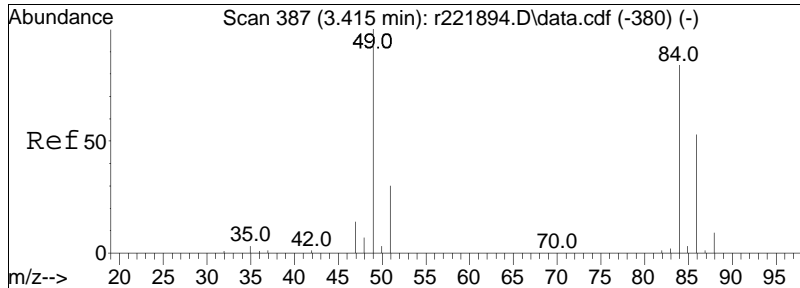




#27
 tertiary butyl alcohol
 Concen: 2.36 ppbV
 RT: 3.390 min Scan# 382
 Delta R.T. 0.020 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

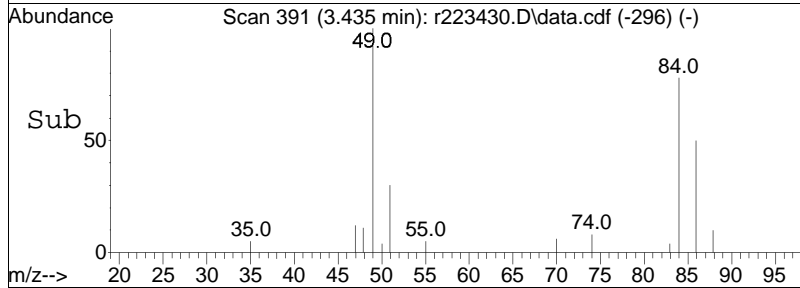
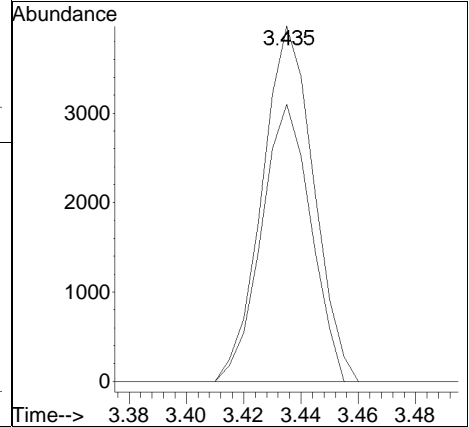
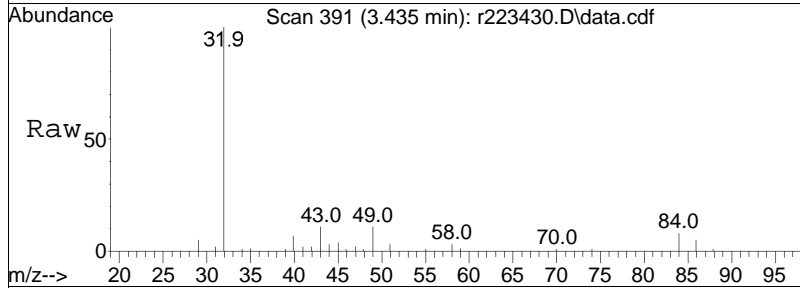
Tgt Ion	Resp	Lower	Upper
59	100		
41	26.0	16.9	25.3#
43	17.6	7.5	11.3#

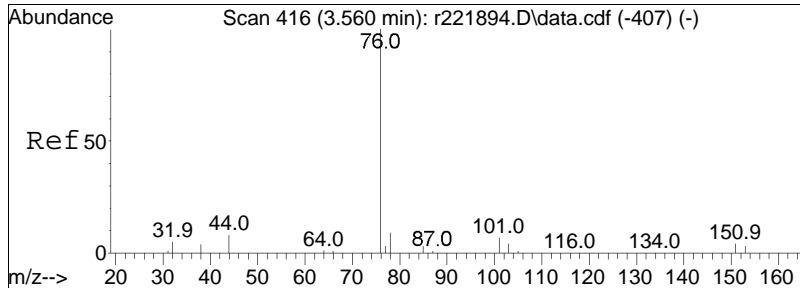




#28
 methylene chloride
 Concen: 0.28 ppbV
 RT: 3.435 min Scan# 391
 Delta R.T. 0.020 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

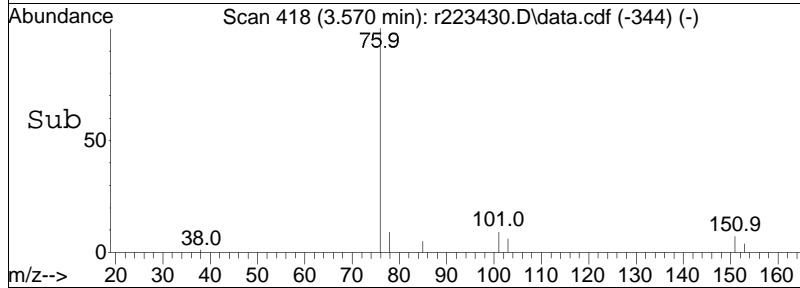
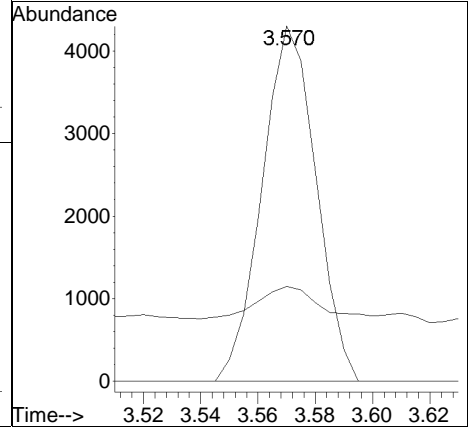
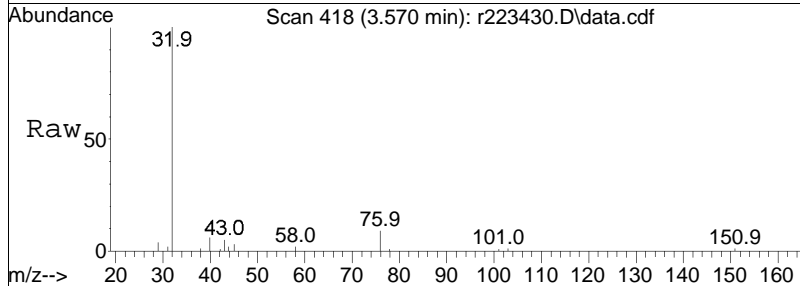
Tgt Ion:	49	Resp:	4971
Ion Ratio	Lower	Upper	
49	100		
84	78.0	67.2	100.8

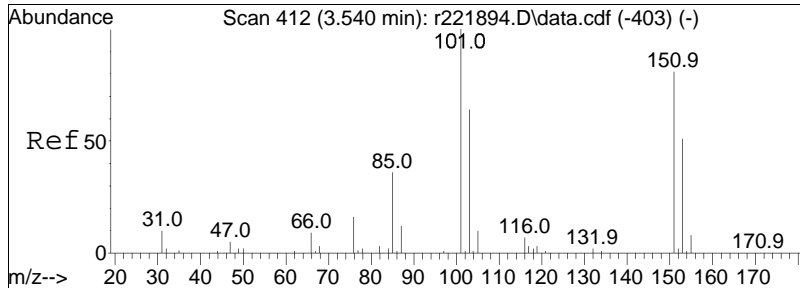




#30
 carbon disulfide
 Concen: 0.11 ppbV
 RT: 3.570 min Scan# 418
 Delta R.T. 0.010 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

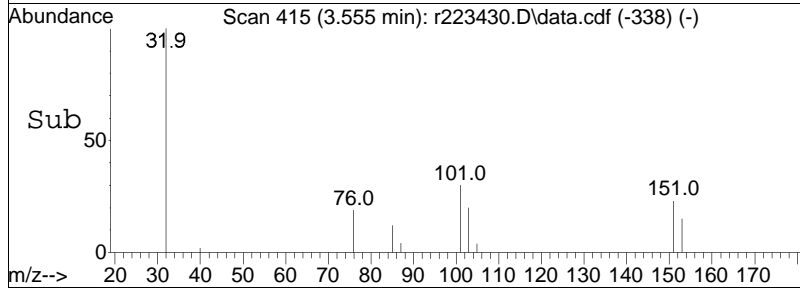
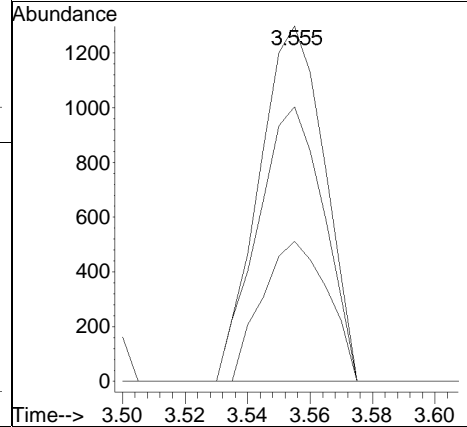
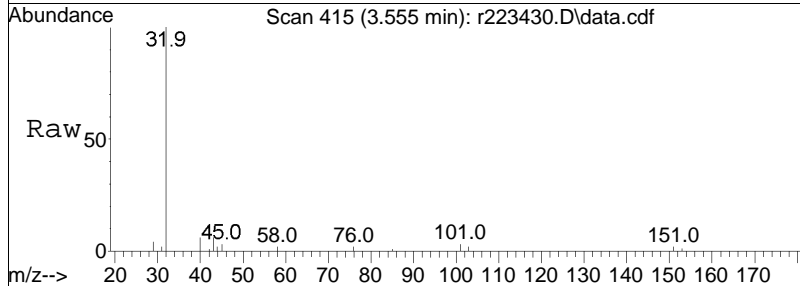
Tgt Ion	Resp	Lower	Upper
76	100		
44	26.7	6.8	10.2#

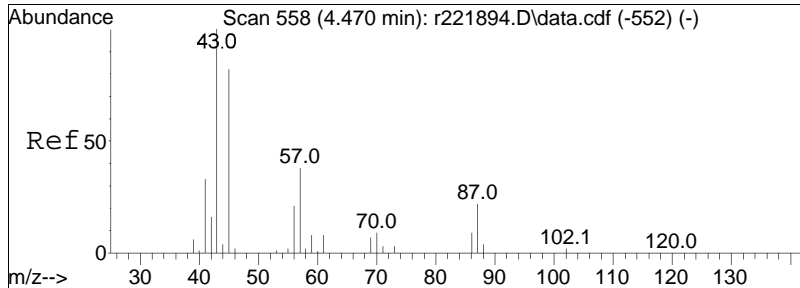




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 3.555 min Scan# 415
 Delta R.T. 0.015 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

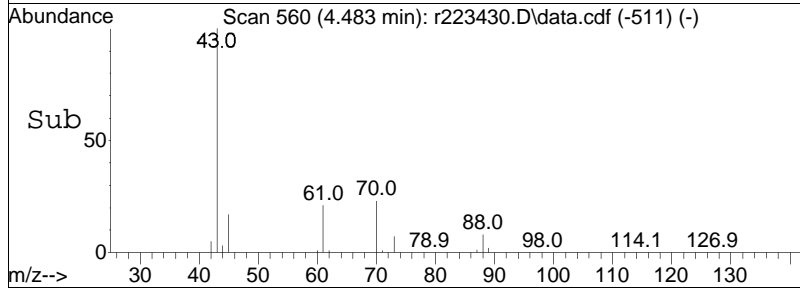
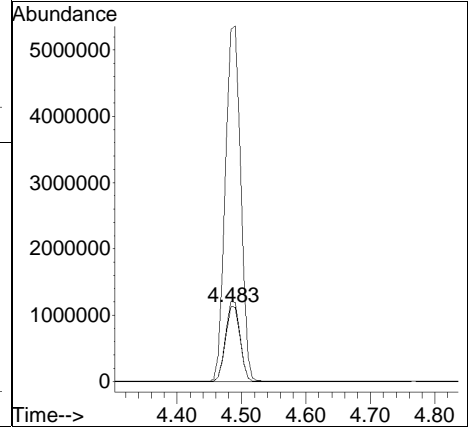
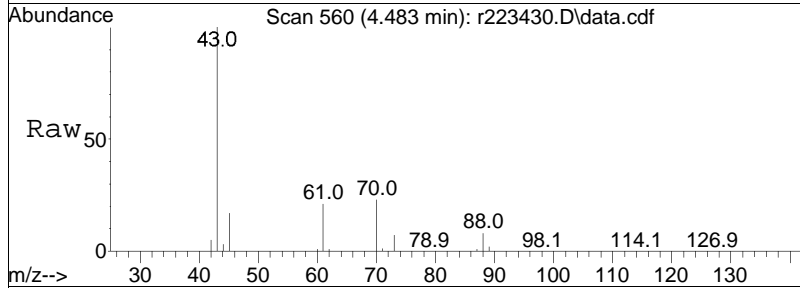
Tgt Ion	Ratio	Lower	Upper	Resp
101	100			1898
85	39.4	28.6	43.0	
151	77.3	64.6	97.0	

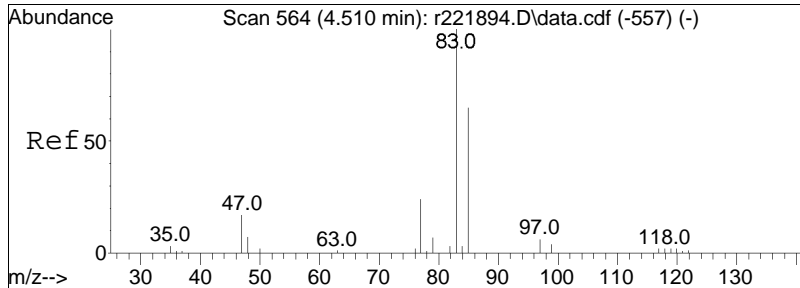




#38
 Ethyl Acetate
 Concen: 312.07 ppbV
 RT: 4.483 min Scan# 560
 Delta R.T. 0.013 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

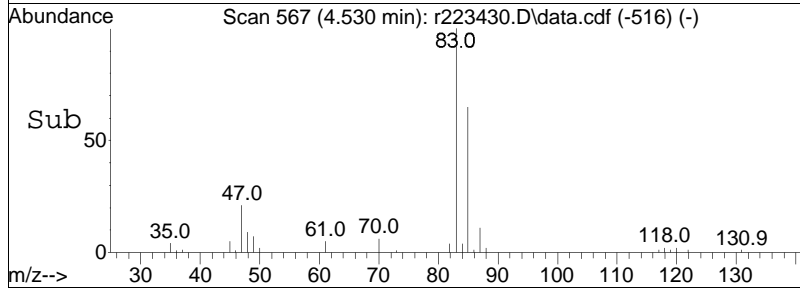
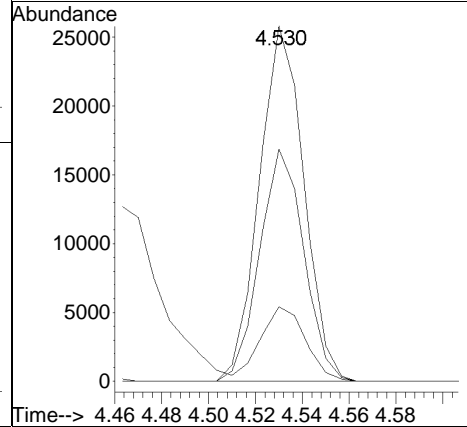
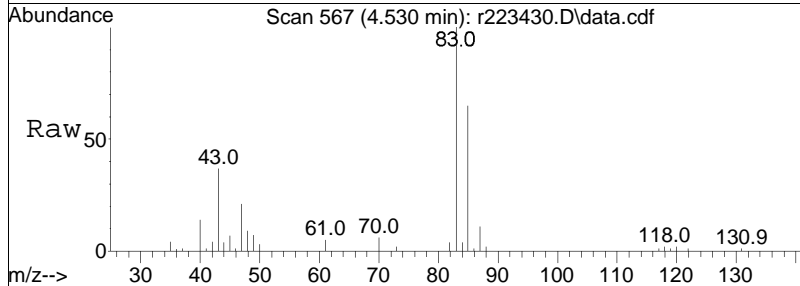
Tgt Ion	Resp	Lower	Upper
61	100		
70	107.4	91.7	137.5
43	471.2	971.0	1456.6#

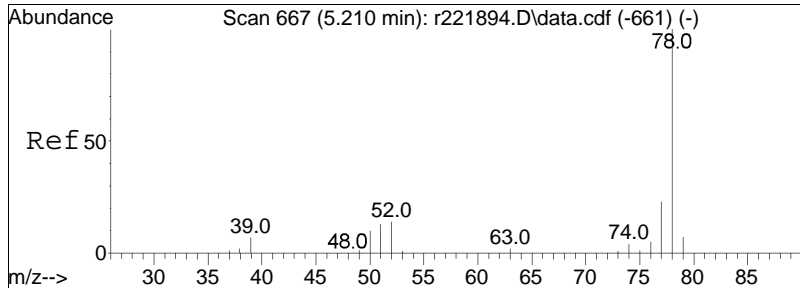




#39
 chloroform
 Concen: 1.32 ppbV
 RT: 4.530 min Scan# 567
 Delta R.T. 0.020 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

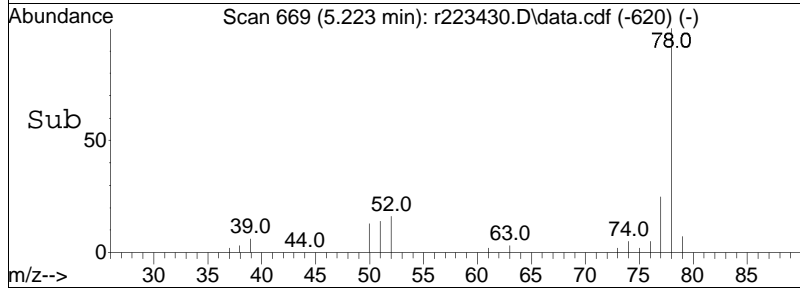
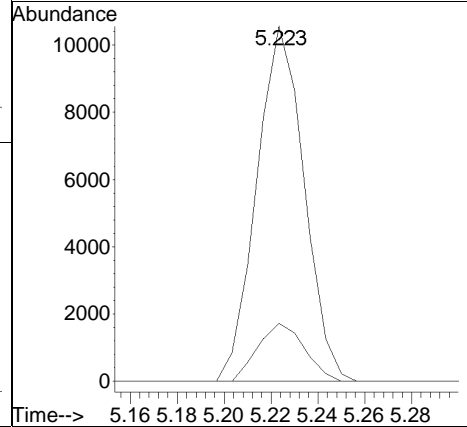
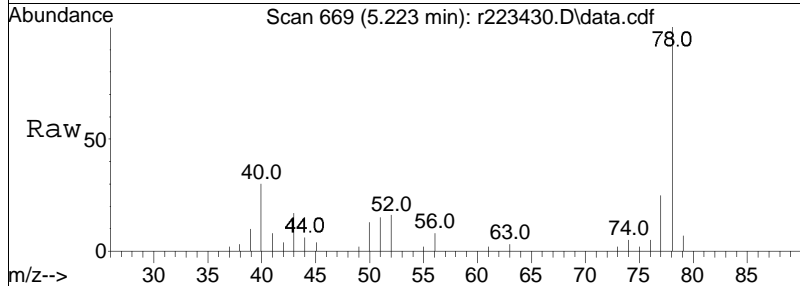
Tgt Ion	Resp	Lower	Upper
83	34130		
85	65.4	52.6	79.0
47	21.0	15.1	22.7

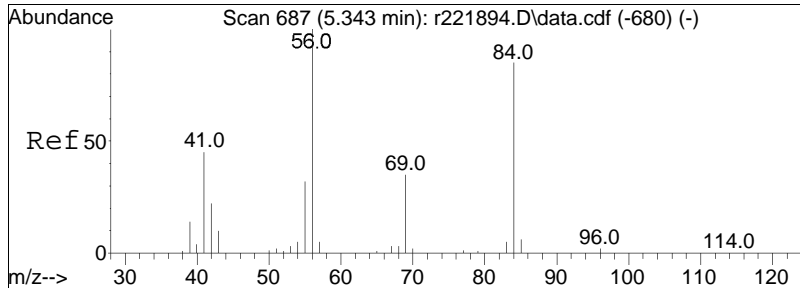




#50
benzene
Concen: 0.29 ppbV
RT: 5.223 min Scan# 669
Delta R.T. 0.013 min
Lab File: r223430.D
Acq: 28 Mar 2024 10:47 PM

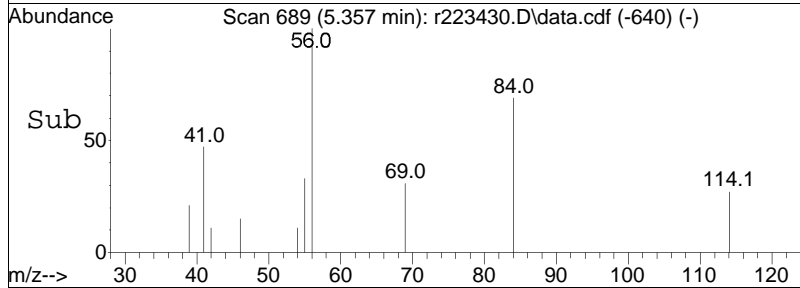
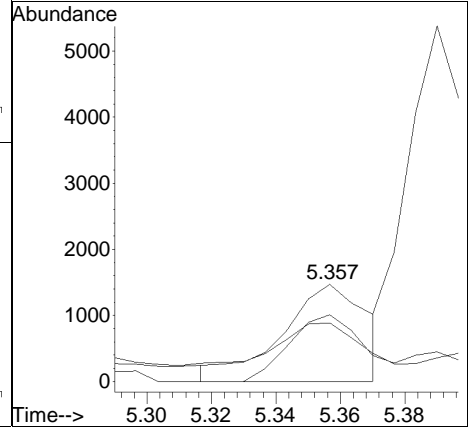
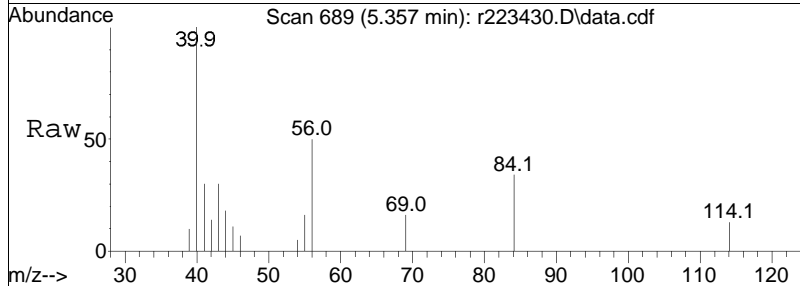
Tgt Ion	Resp	Lower	Upper
78	14860		
52	16.3	11.3	16.9

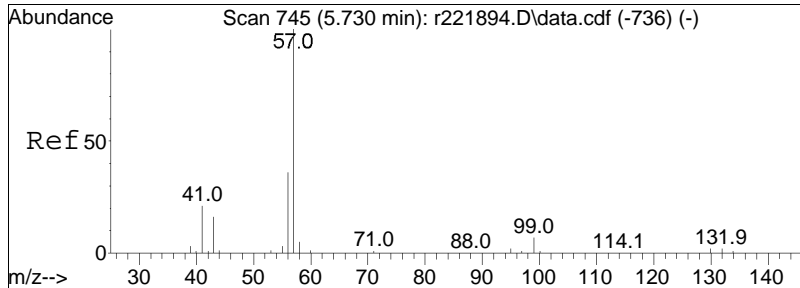




#53
 cyclohexane
 Concen: 0.10 ppbV
 RT: 5.357 min Scan# 689
 Delta R.T. 0.013 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

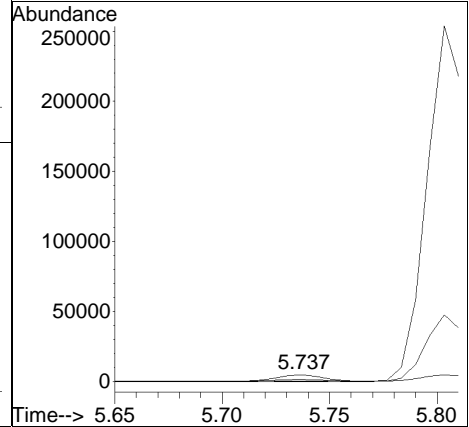
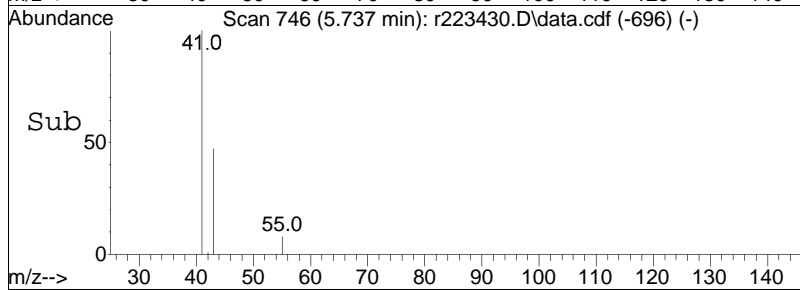
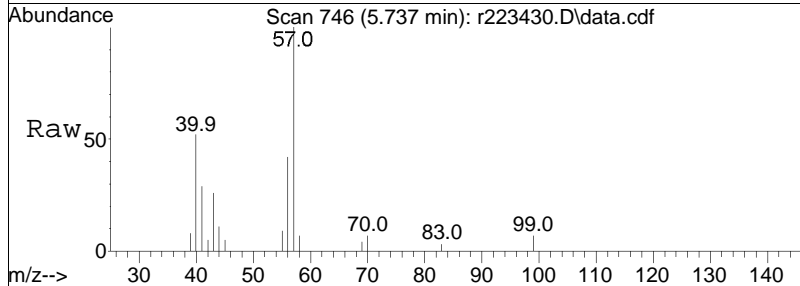
Tgt Ion	Resp	Lower	Upper
56	100		
84	68.6	70.9	106.3#
41	60.3	35.8	53.6#

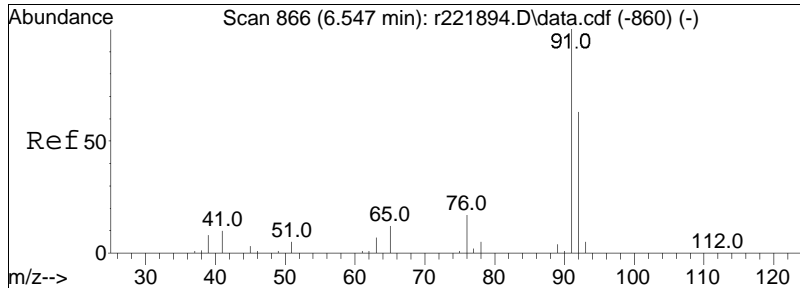




#60
 2,2,4-trimethylpentane
 Concen: 0.10 ppbV
 RT: 5.737 min Scan# 746
 Delta R.T. 0.007 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

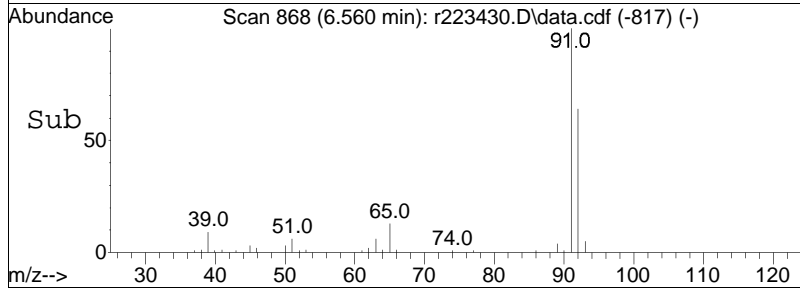
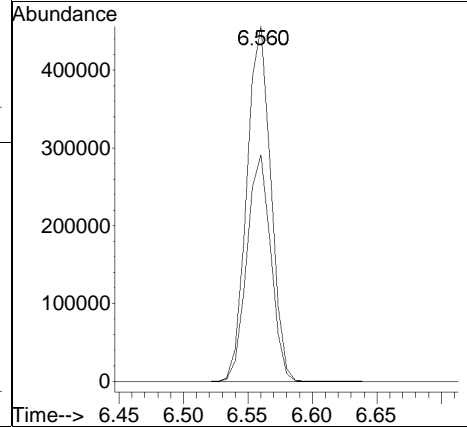
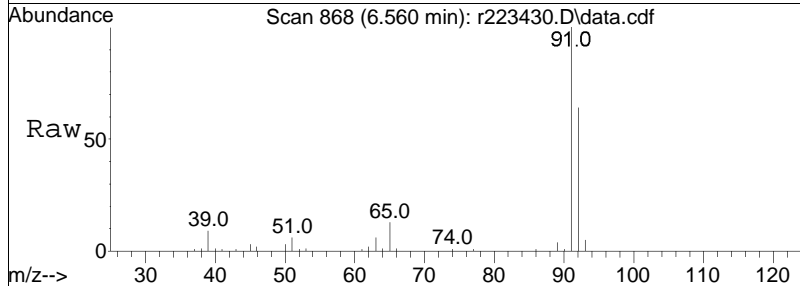
Tgt Ion	Resp	Lower	Upper
57	100		
99	6.9	5.7	8.5
41	29.1	16.9	25.3#

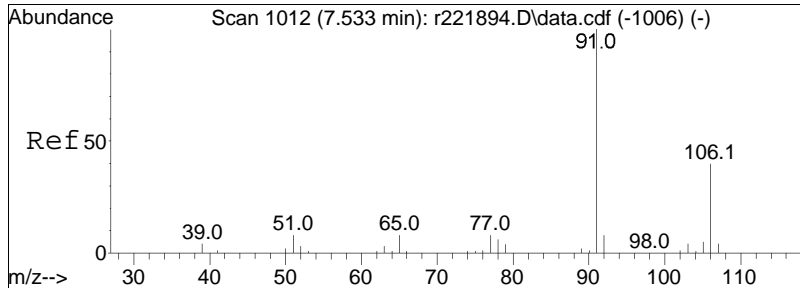




#68
 toluene
 Concen: 7.26 ppbV
 RT: 6.560 min Scan# 868
 Delta R.T. 0.013 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

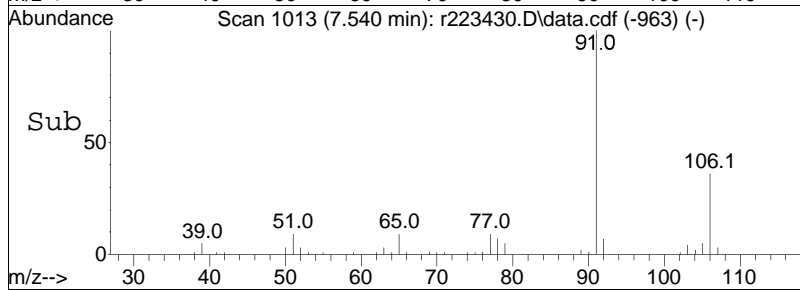
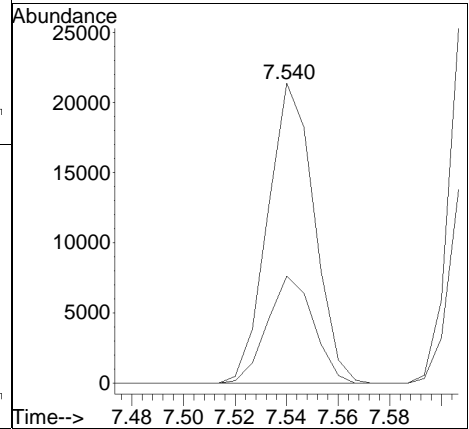
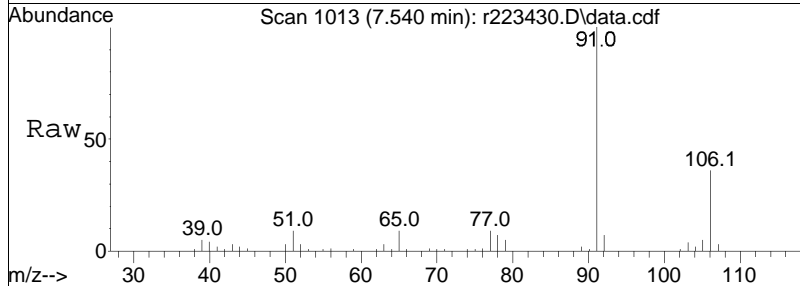
Tgt Ion:	91	Resp:	591111
Ion Ratio	Lower	Upper	
91	100		
92	63.9	50.7	76.1

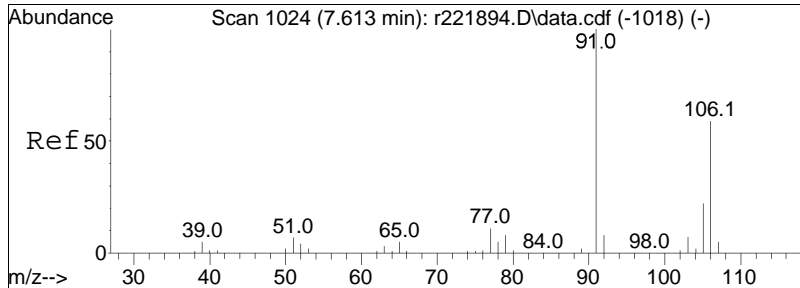




#81
ethylbenzene
Concen: 0.27 ppbV
RT: 7.540 min Scan# 1013
Delta R.T. 0.007 min
Lab File: r223430.D
Acq: 28 Mar 2024 10:47 PM

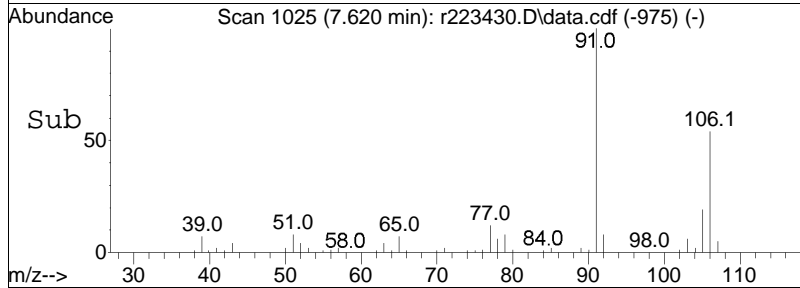
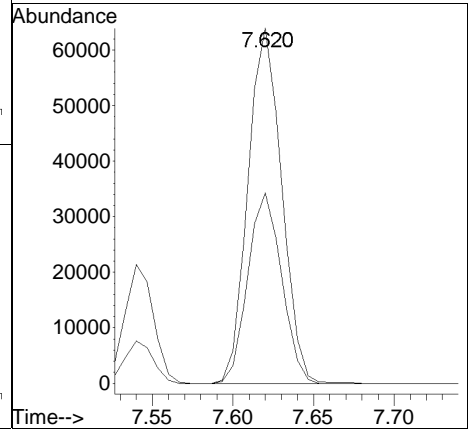
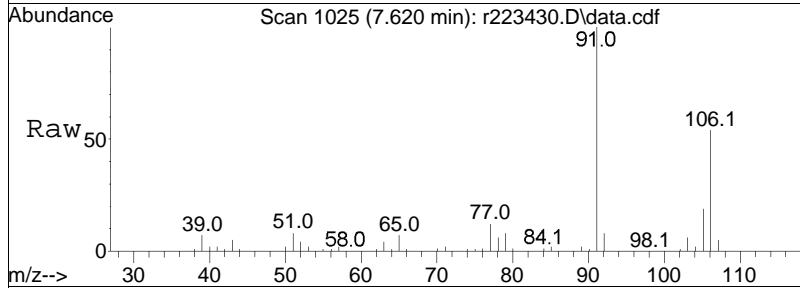
Tgt Ion: 91 Resp: 26777
Ion Ratio Lower Upper
91 100
106 35.7 31.7 47.5

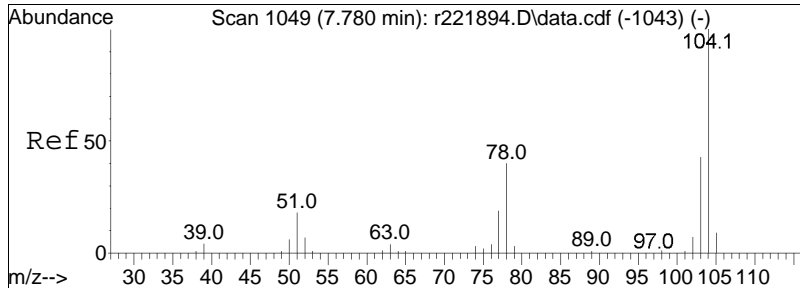




#83
 m+p-xylene
 Concen: 1.21 ppbV
 RT: 7.620 min Scan# 1025
 Delta R.T. 0.007 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

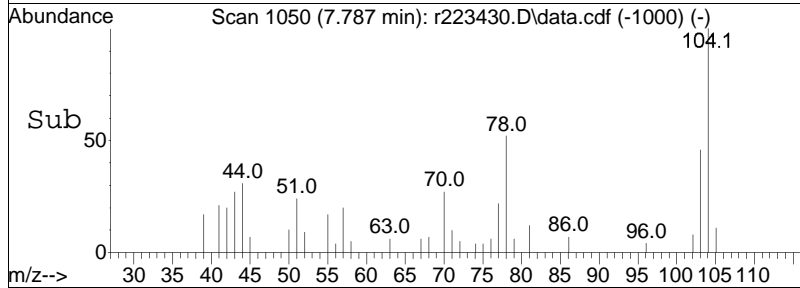
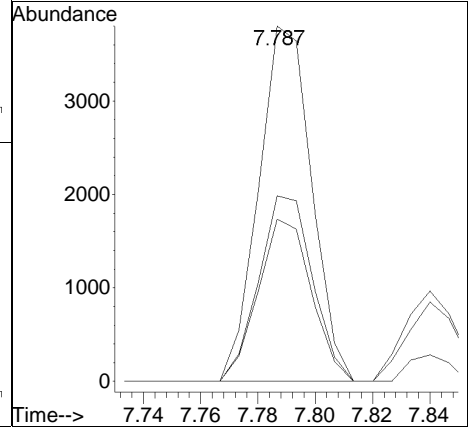
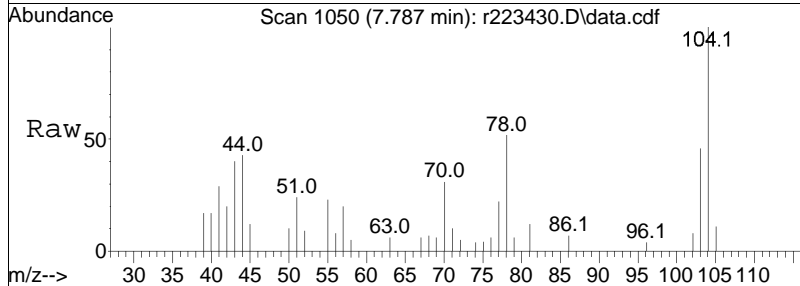
Tgt Ion: 91 Resp: 93027
 Ion Ratio Lower Upper
 91 100
 106 53.6 47.4 71.2

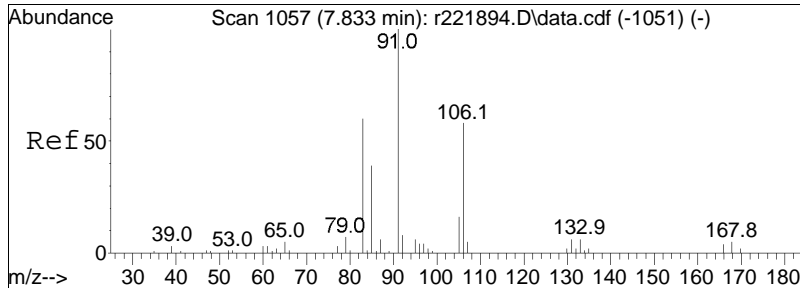




#85
 styrene
 Concen: 0.07 ppbV
 RT: 7.787 min Scan# 1050
 Delta R.T. 0.007 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

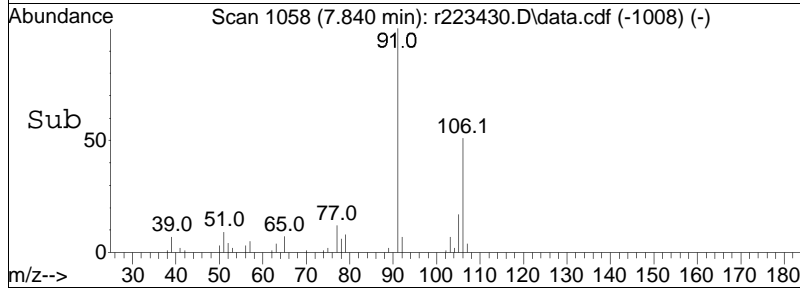
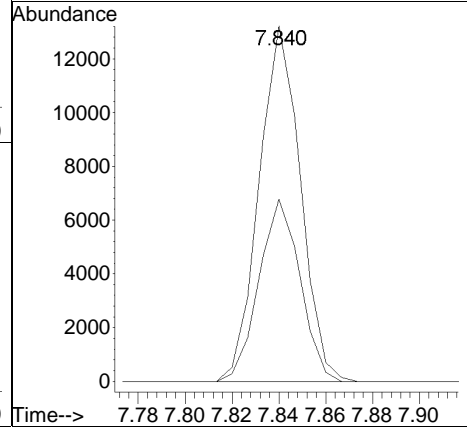
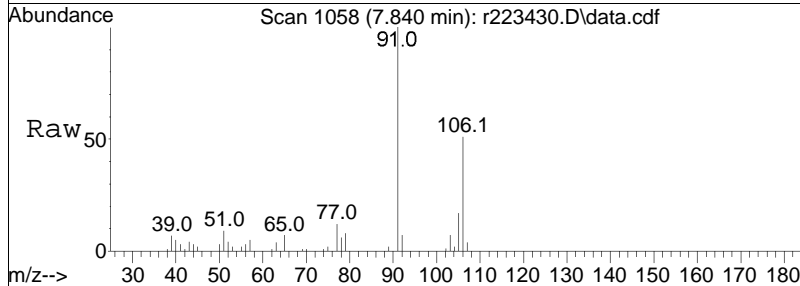
Tgt Ion	Resp	Lower	Upper
104	4877		
103	45.7	34.3	51.5
78	52.2	32.3	48.5#





#87
 o-xylene
 Concen: 0.22 ppbV
 RT: 7.840 min Scan# 1058
 Delta R.T. 0.007 min
 Lab File: r223430.D
 Acq: 28 Mar 2024 10:47 PM

Tgt Ion: 91 Resp: 16186
 Ion Ratio Lower Upper
 91 100
 106 51.3 46.2 69.4



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223430.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:0: 7 Instrument :
Sample : WG1902103-5,3,250,250 Quant Date : 3/29/2024 7:42 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223443.D
 Acq On : 29 Mar 2024 9:52 AM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-5D,3,1.91,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:20 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.470	49	198696	10.000	ppbV	0.02
Standard Area = 222450			Recovery =		89.32%	
43) 1,4-difluorobenzene	5.397	114	553184	10.000	ppbV	0.02
Standard Area = 633782			Recovery =		87.28%	
67) chlorobenzene-D5	7.360	54	82361	10.000	ppbV	# 0.01
Standard Area = 85965			Recovery =		95.81%	

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	2.195	85	1183	0.074	ppbV	89
6) chloromethane	2.200		0	N.D.		
7) Freon-114	2.235		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.770	31	68021	21.314	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.995	43	1783817	279.043	ppbV	97
21) trichlorofluoromethane	0.000		0	N.D.	d	
22) isopropyl alcohol	3.109	45	116943	11.034	ppbV	99
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	3.415		0	N.D.		
28) methylene chloride	3.435		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	3.585		0	N.D.		
31) Freon 113	3.565		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.	d	
38) Ethyl Acetate	4.497	61	11940	2.379	ppbV #	11
39) chloroform	4.537		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
 Data File : r223443.D
 Acq On : 29 Mar 2024 9:52 AM
 Operator : AIRLAB22:JMB
 Sample : WG1902103-5D,3,1.91,250
 Misc : WG1902103,ICAL20613
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:20 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Fri Dec 01 08:46:46 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
 Sub List : TO15-NY+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	0.000		0		N.D.	
50) benzene	5.237		0		N.D.	
52) carbon tetrachloride	0.000		0		N.D.	
53) cyclohexane	5.297		0		N.D.	
56) 1,2-dichloropropane	0.000		0		N.D.	
57) bromodichloromethane	0.000		0		N.D.	
58) 1,4-dioxane	0.000		0		N.D.	
59) trichloroethene	0.000		0		N.D.	
60) 2,2,4-trimethylpentane	0.000		0		N.D.	
62) heptane	5.843		0		N.D.	
63) cis-1,3-dichloropropene	0.000		0		N.D.	
64) 4-methyl-2-pentanone	6.147		0		N.D.	
65) trans-1,3-dichloropropene	0.000		0		N.D.	
66) 1,1,2-trichloroethane	0.000		0		N.D.	
68) toluene	6.567		0		N.D.	
72) 2-hexanone	0.000		0		N.D.	
74) dibromochloromethane	0.000		0		N.D.	
75) 1,2-dibromoethane	0.000		0		N.D.	
78) tetrachloroethene	0.000		0		N.D.	
80) chlorobenzene	0.000		0		N.D.	
81) ethylbenzene	7.547		0		N.D.	
83) m+p-xylene	7.627		0		N.D.	
84) bromoform	0.000		0		N.D.	
85) styrene	7.800		0		N.D.	
86) 1,1,2,2-tetrachloroethane	7.847		0		N.D.	
87) o-xylene	7.847		0		N.D.	
96) 4-ethyl toluene	8.447		0		N.D.	
97) 1,3,5-trimethylbenzene	8.480		0		N.D.	
99) 1,2,4-trimethylbenzene	8.690		0		N.D.	
101) Benzyl Chloride	8.763		0		N.D.	
102) 1,3-dichlorobenzene	8.777		0		N.D.	
103) 1,4-dichlorobenzene	8.803		0		N.D.	
107) 1,2-dichlorobenzene	8.983		0		N.D.	
115) 1,2,4-trichlorobenzene	9.873		0		N.D.	
116) naphthalene	9.932		0		N.D.	
119) hexachlorobutadiene	10.113		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223443.D
Acq On : 29 Mar 2024 9:52 AM
Operator : AIRLAB22:JMB
Sample : WG1902103-5D,3,1.91,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 10:37:20 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

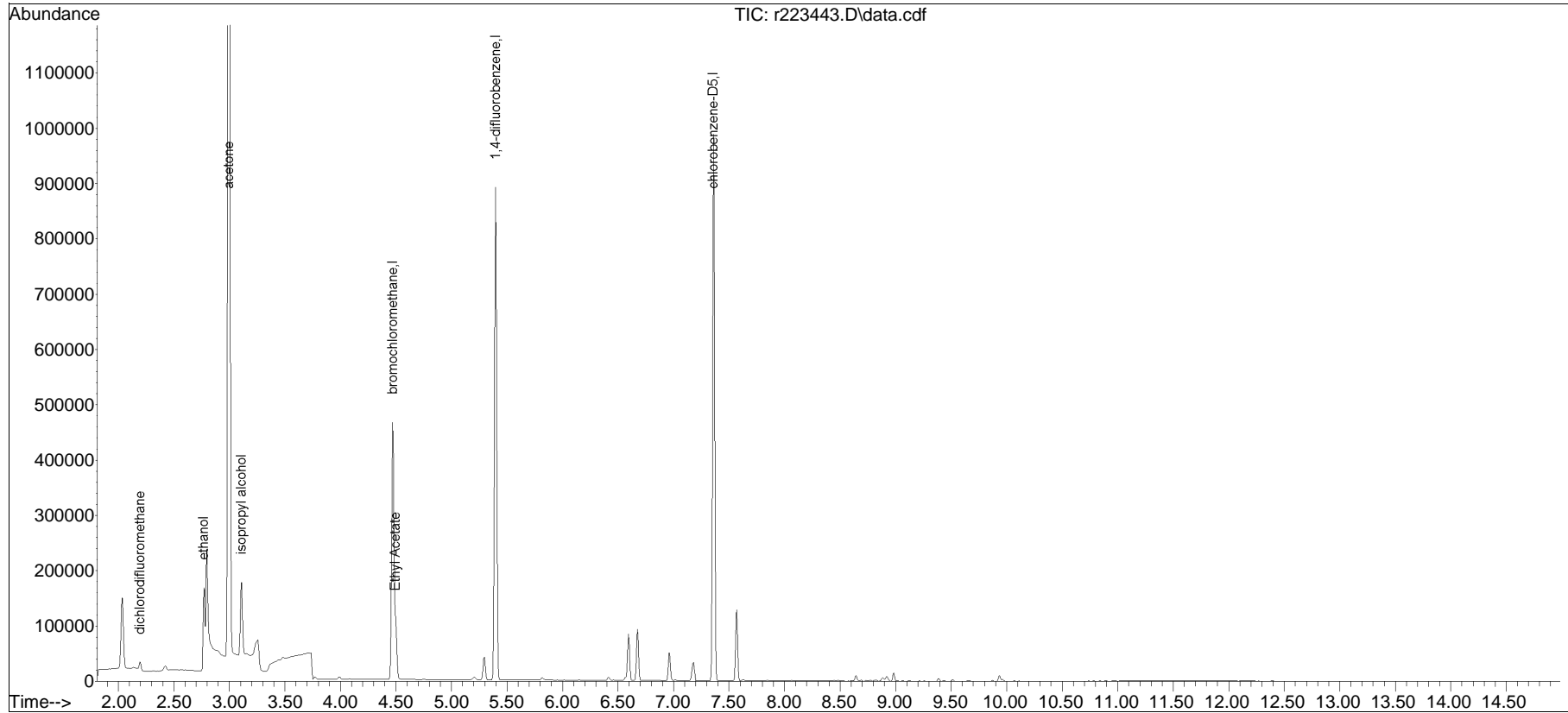
CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328T\r223417.D
Sub List : TO15-NY+Naphthalene - .

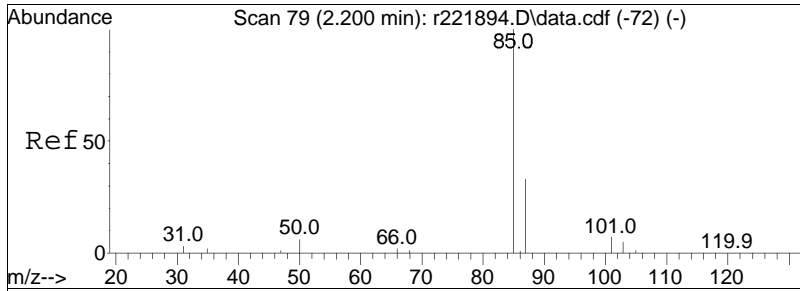
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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Sub List : TO15-NY+Naphthalene - .b22\2024\03\0328T\r223417.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328T\
Data File : r223443.D
Acq On : 29 Mar 2024 9:52 AM
Operator : AIRLAB22:JMB
Sample : WG1902103-5D,3,1.91,250
Misc : WG1902103,ICAL20613
ALS Vial : 0 Sample Multiplier: 1

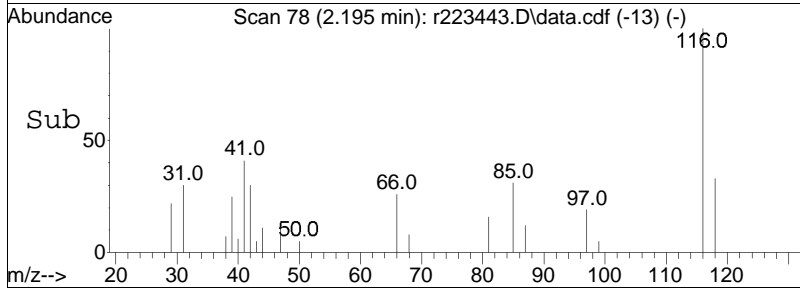
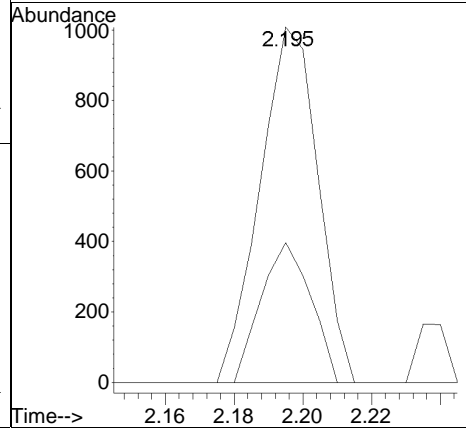
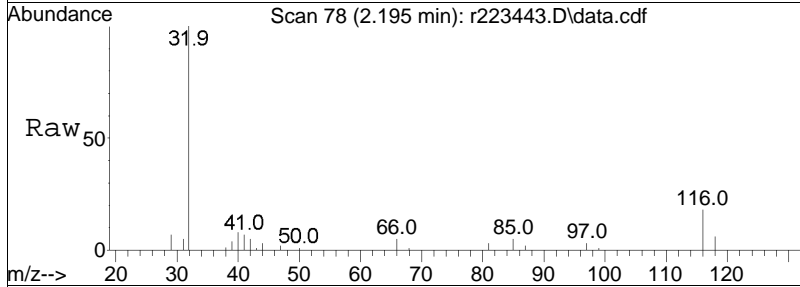
Quant Time: Mar 29 10:37:20 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328T\TFS22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Dec 01 08:46:46 2023
Response via : Initial Calibration

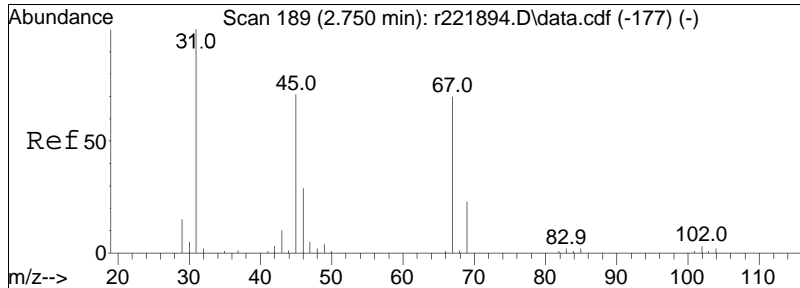




#5
 dichlorodifluoromethane
 Concen: 0.07 ppbV
 RT: 2.195 min Scan# 78
 Delta R.T. -0.005 min
 Lab File: r223443.D
 Acq: 29 Mar 2024 9:52 AM

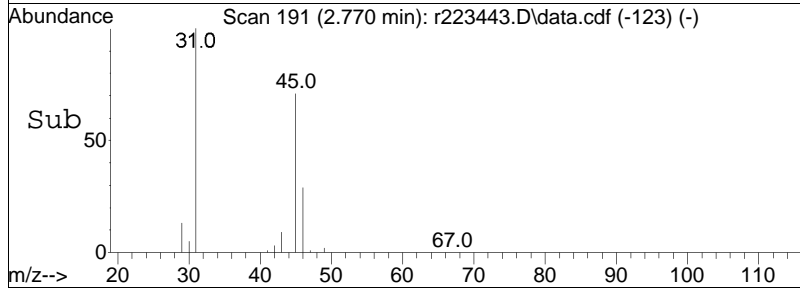
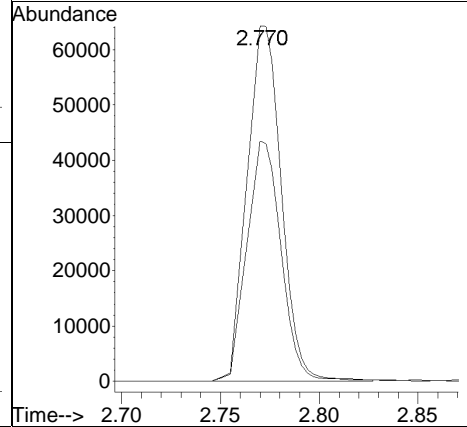
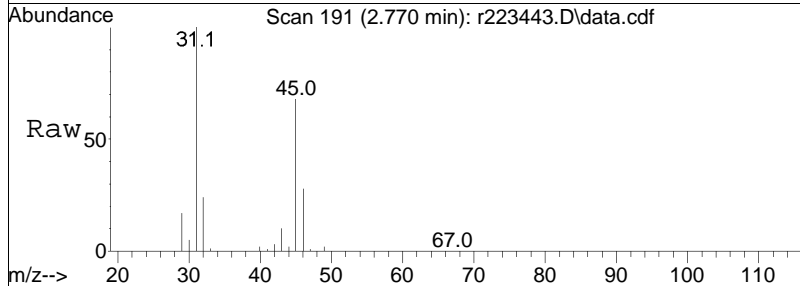
Tgt Ion: 85 Resp: 1183
 Ion Ratio Lower Upper
 85 100
 87 39.4 26.3 39.5

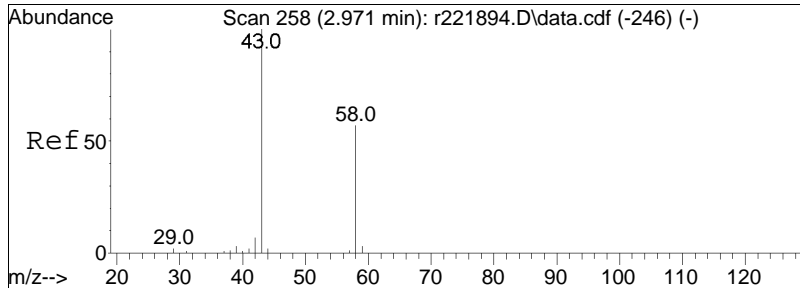




#15
 ethanol
 Concen: 21.31 ppbV
 RT: 2.770 min Scan# 191
 Delta R.T. 0.020 min
 Lab File: r223443.D
 Acq: 29 Mar 2024 9:52 AM

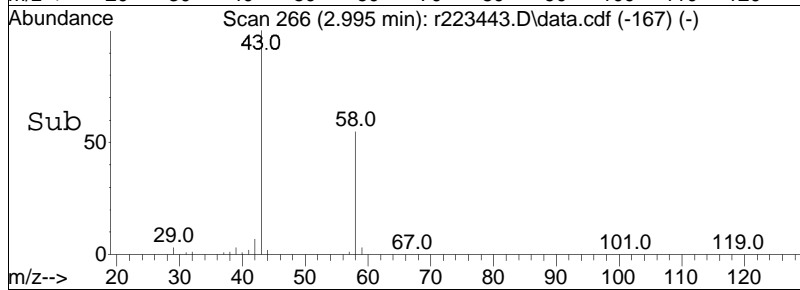
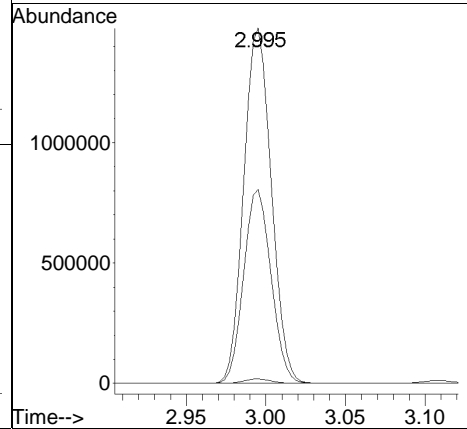
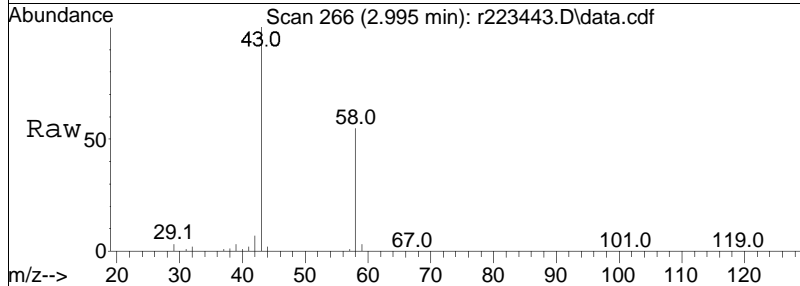
Tgt Ion	Resp	Lower	Upper
31	100		
45	67.7	56.6	84.8

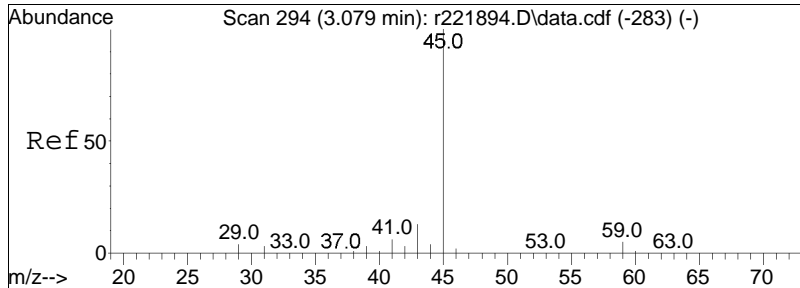




#19
 acetone
 Concen: 279.04 ppbV
 RT: 2.995 min Scan# 266
 Delta R.T. 0.024 min
 Lab File: r223443.D
 Acq: 29 Mar 2024 9:52 AM

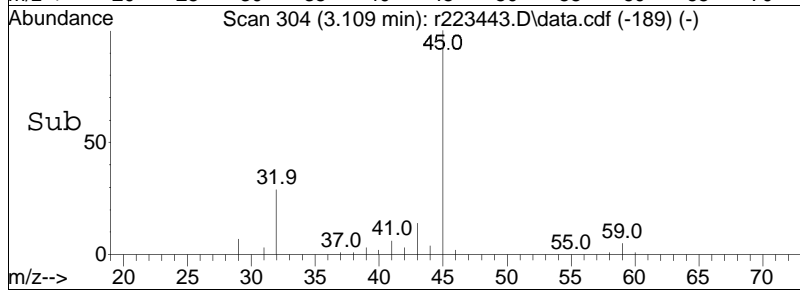
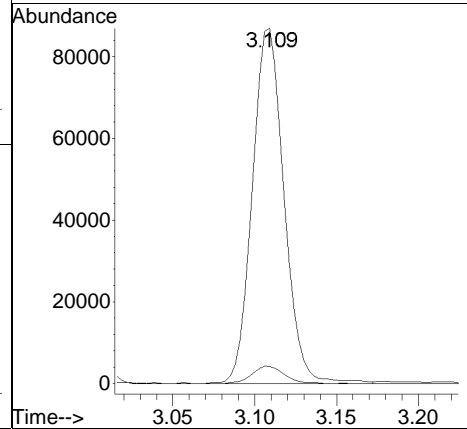
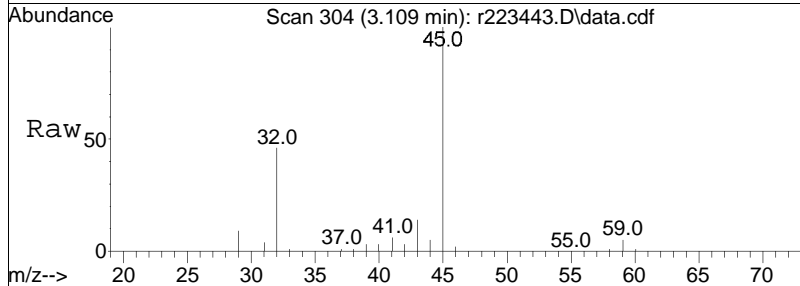
Tgt Ion	Resp	Lower	Upper
43	1783817		
43	100		
58	54.6	45.5	68.3
57	1.2	1.0	1.6

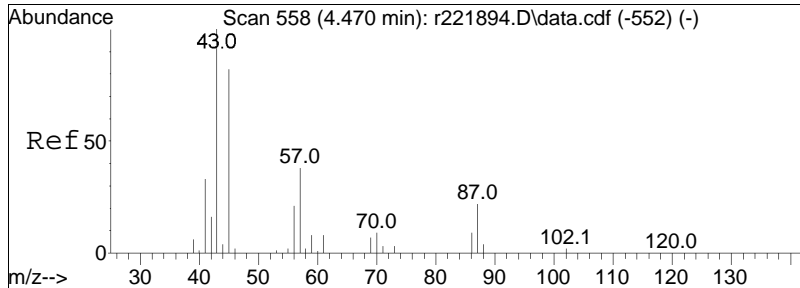




#22
 isopropyl alcohol
 Concen: 11.03 ppbV
 RT: 3.109 min Scan# 304
 Delta R.T. 0.030 min
 Lab File: r223443.D
 Acq: 29 Mar 2024 9:52 AM

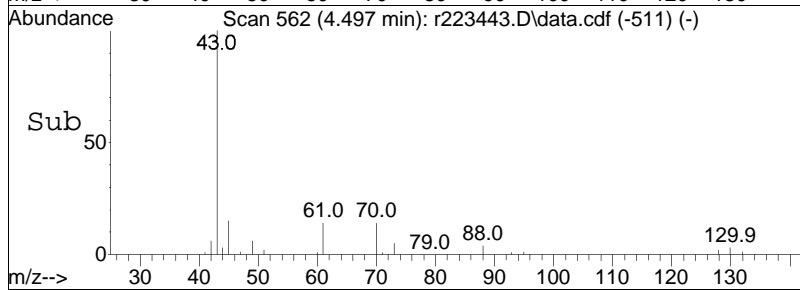
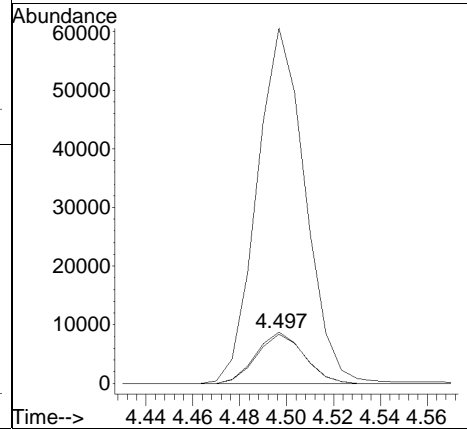
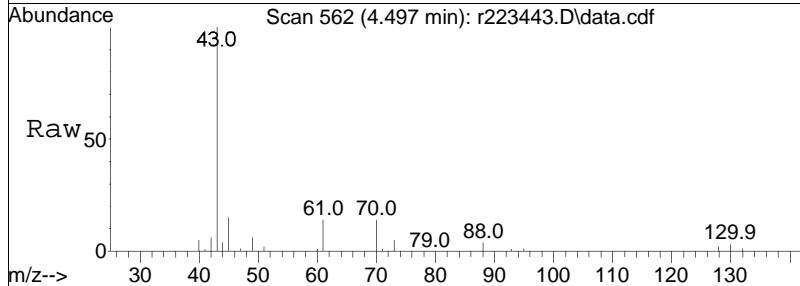
Tgt Ion:	45	59	Resp:	116943
Ion Ratio	100	4.8	Lower	Upper
			4.0	6.0





#38
 Ethyl Acetate
 Concen: 2.38 ppbV
 RT: 4.497 min Scan# 562
 Delta R.T. 0.027 min
 Lab File: r223443.D
 Acq: 29 Mar 2024 9:52 AM

Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
70	104.2	91.7	137.5
43	720.8	971.0	1456.6#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TFS22_231129.M
Data File : r223443.D Operator : AIRLAB22:JMB
Date Inj'd : 3/29/2020 0:9: 2 Instrument :
Sample : WG1902103-5D,3,1.91,250 Quant Date : 3/29/2024 10:37 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436796.D
 Acq On : 29 Mar 2024 8:09 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-5,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:23:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	9.217	49	341326	10.000	ppbV	0.07
Standard Area =	358796		Recovery =	95.13%		
43) 1,4-difluorobenzene	11.447	114	706802	10.000	ppbV	0.07
Standard Area =	735074		Recovery =	96.15%		
67) chlorobenzene-D5	16.117	54	153598	10.000	ppbV	0.05
Standard Area =	162298		Recovery =	94.64%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) dichlorodifluoromethane	4.060	85	18784	0.496	ppbV	99
6) chloromethane	4.228	50	11570	0.543	ppbV	95
7) Freon-114	4.330		0	N.D.		
10) 1,3-butadiene	4.612		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.242	31	125409	5.930	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.760	43	162655M6	6.090	ppbV	
21) trichlorofluoromethane	5.937	101	5748	0.214	ppbV	95
22) isopropyl alcohol	6.057	45	141390	3.900	ppbV	99
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.792	49	46976	1.777	ppbV	98
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	7.110	76	1889	0.035	ppbV #	1
31) Freon 113	7.098	101	1996	0.066	ppbV	95
32) trans-1,2-dichloroethene	7.867		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	8.142		0	N.D.		
36) 2-butanone	8.550	43	18882	0.402	ppbV	98
38) Ethyl Acetate	9.308	61	12937	1.797	ppbV #	24
39) chloroform	9.367		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	10.208		0	N.D.		
44) hexane	9.283	57	9561	0.253	ppbV #	57
50) benzene	11.027	78	10148	0.156	ppbV	97
53) cyclohexane	11.340	56	3572	0.090	ppbV #	86
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
 Data File : r15436796.D
 Acq On : 29 Mar 2024 8:09 PM
 Operator : AIRLAB15:BJB
 Sample : WG1902670-5,3,250,250
 Misc : WG1902670,ICAL20971
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 30 07:23:54 2024
 Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Mar 24 18:58:00 2024
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab15\2024\03\0329T\r15436789.D
 Sub List : TO15-NY-7-sim+Naphthalene - .

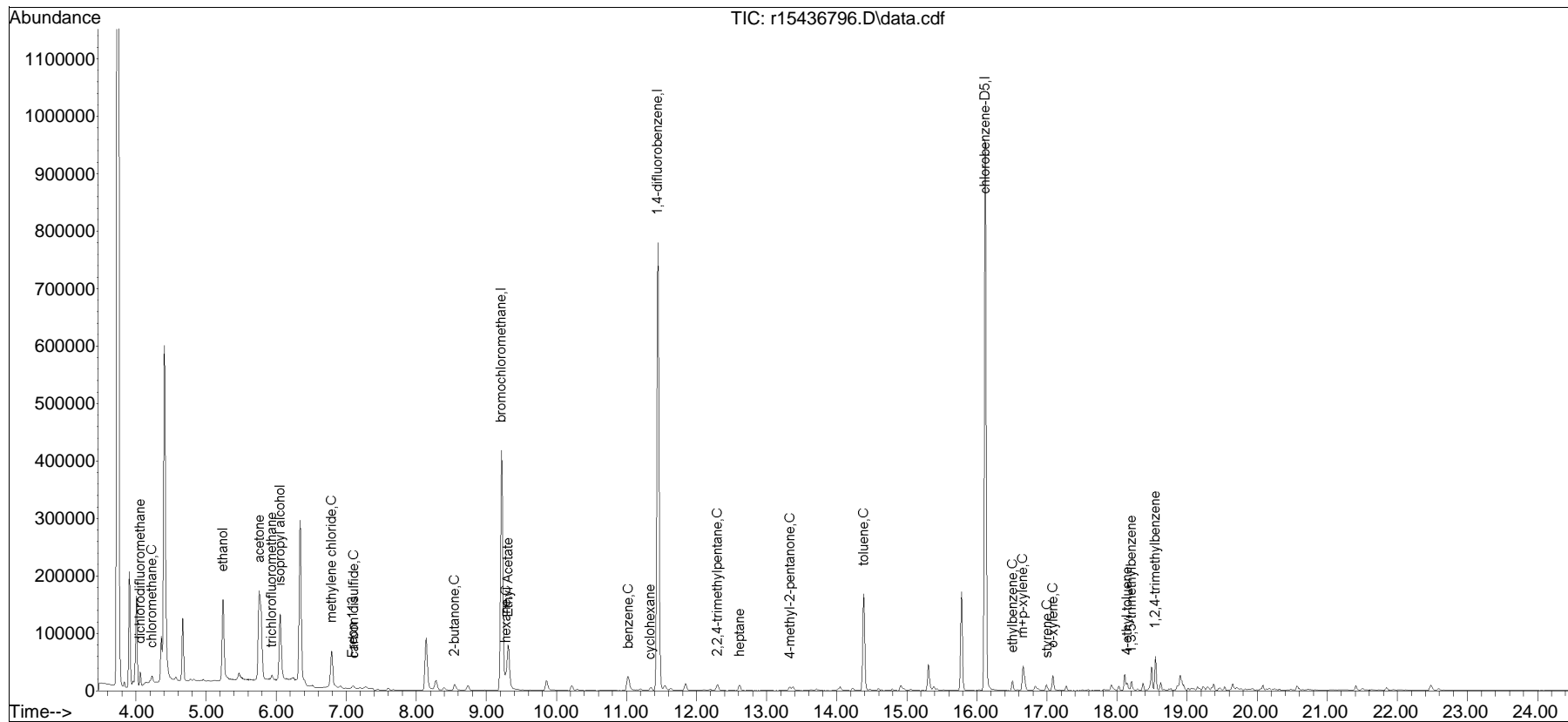
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
58) 1,4-dioxane	0.000		0		N.D.		
60) 2,2,4-trimethylpentane	12.300	57	10375	0.086	ppbV #		88
62) heptane	12.613	43	5817	0.123	ppbV		97
63) cis-1,3-dichloropropene	0.000		0		N.D.		
64) 4-methyl-2-pentanone	13.333	43	7082	0.127	ppbV #		93
65) trans-1,3-dichloropropene	0.000		0		N.D.		
66) 1,1,2-trichloroethane	0.000		0		N.D.		
68) toluene	14.383	91	121616	1.721	ppbV		97
72) 2-hexanone	0.000		0		N.D.	d	
74) dibromochloromethane	0.000		0		N.D.		
75) 1,2-dibromoethane	0.000		0		N.D.		
80) chlorobenzene	0.000		0		N.D.		
81) ethylbenzene	16.508	91	13205	0.152	ppbV		93
83) m+p-xylene	16.658	91	32950	0.465	ppbV		98
84) bromoform	0.000		0		N.D.		
85) styrene	17.000	104	2356	0.045	ppbV		95
86) 1,1,2,2-tetrachloroethane	0.000		0		N.D.		
87) o-xylene	17.083	91	15044	0.210	ppbV		96
96) 4-ethyl toluene	18.142	105	6440M3	0.069	ppbV		
97) 1,3,5-trimethylbenzene	18.208	105	10308M3	0.117	ppbV		
99) 1,2,4-trimethylbenzene	18.550	105	33181	0.404	ppbV #		49
101) Benzyl Chloride	0.000		0		N.D.	d	
102) 1,3-dichlorobenzene	0.000		0		N.D.	d	
103) 1,4-dichlorobenzene	18.742		0		N.D.		
107) 1,2-dichlorobenzene	0.000		0		N.D.		
115) 1,2,4-trichlorobenzene	0.000		0		N.D.		
116) naphthalene	0.000		0		N.D.	d	
119) hexachlorobutadiene	0.000		0		N.D.		

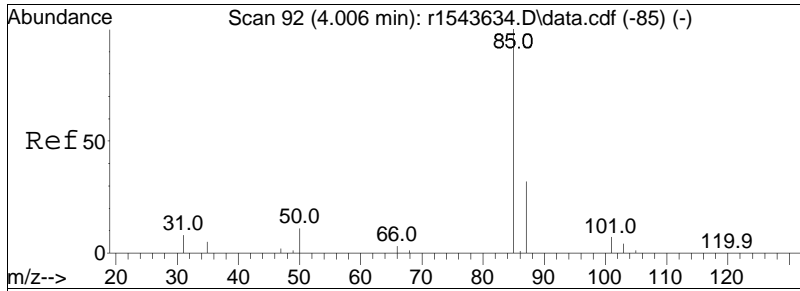
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .24\03\0329T\r15436789.D

Data Path : O:\Forensics\Data\Airlab15\2024\03\0329T\
Data File : r15436796.D
Acq On : 29 Mar 2024 8:09 PM
Operator : AIRLAB15:BJB
Sample : WG1902670-5,3,250,250
Misc : WG1902670,ICAL20971
ALS Vial : 0 Sample Multiplier: 1

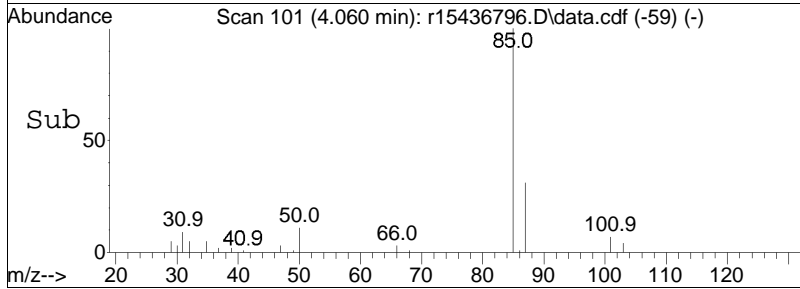
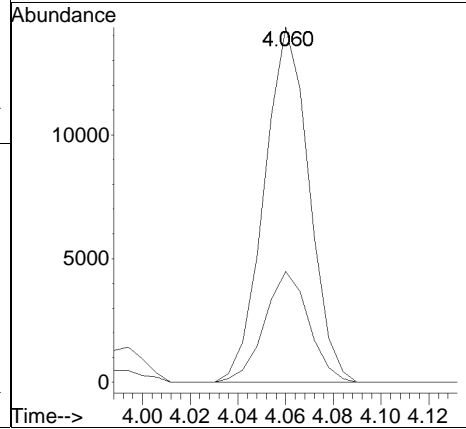
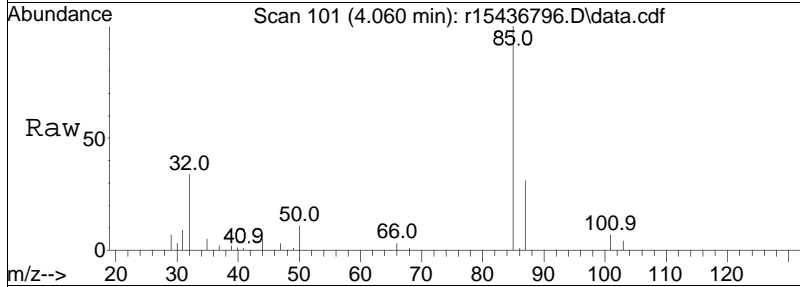
Quant Time: Mar 30 07:23:54 2024
Quant Method : O:\Forensics\Data\Airlab15\2024\03\0329T\TFS15_240322.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 24 18:58:00 2024
Response via : Initial Calibration

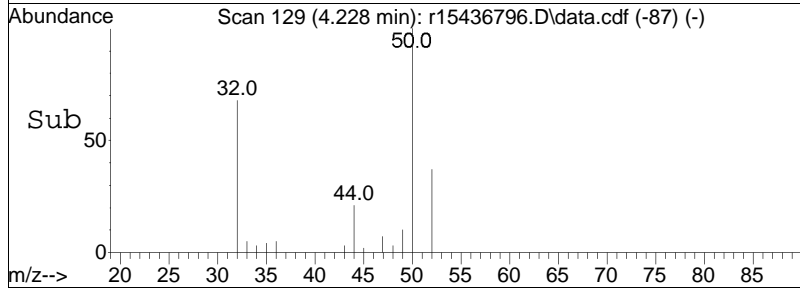
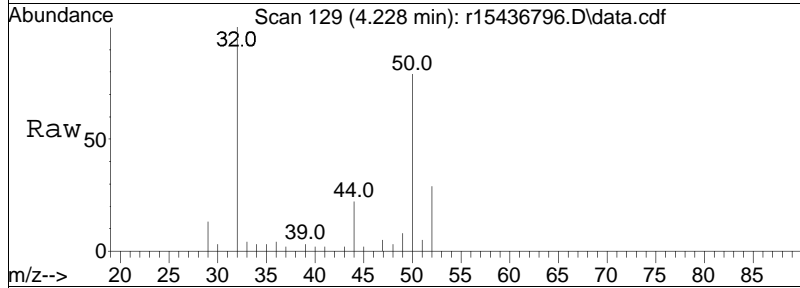
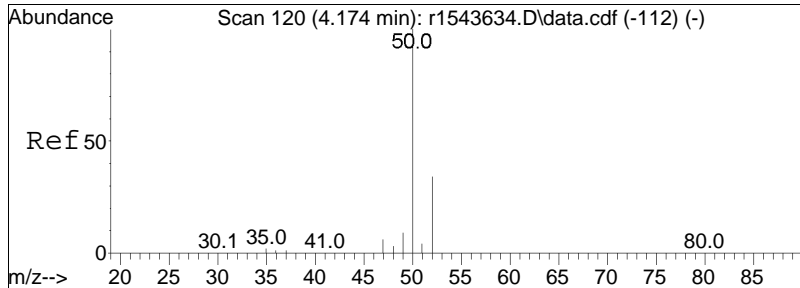




#5
 dichlorodifluoromethane
 Concen: 0.50 ppbV
 RT: 4.060 min Scan# 101
 Delta R.T. 0.054 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

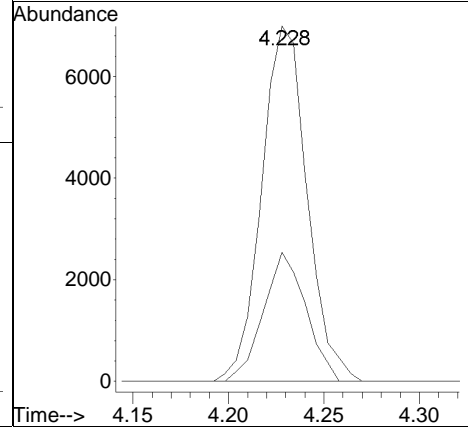
Tgt Ion: 85 Resp: 18784
 Ion Ratio Lower Upper
 85 100
 87 31.2 25.5 38.3

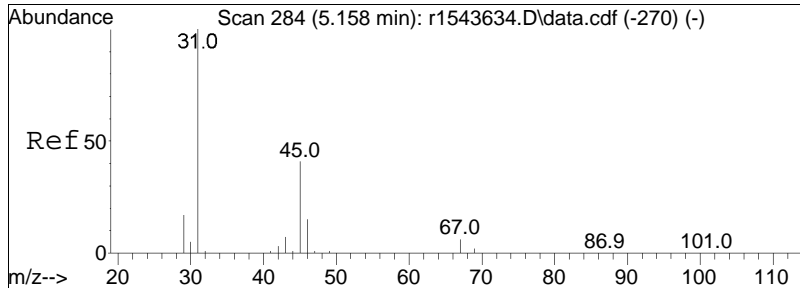




#6
 chloromethane
 Concen: 0.54 ppbV
 RT: 4.228 min Scan# 129
 Delta R.T. 0.054 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

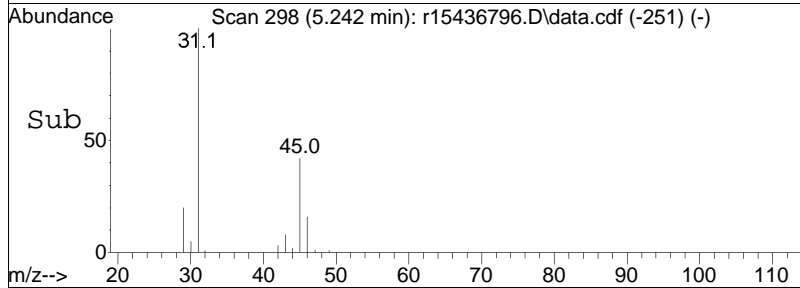
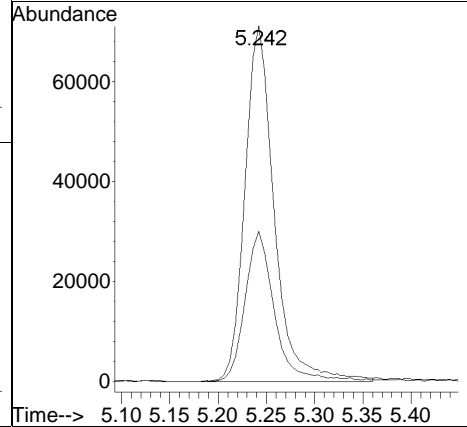
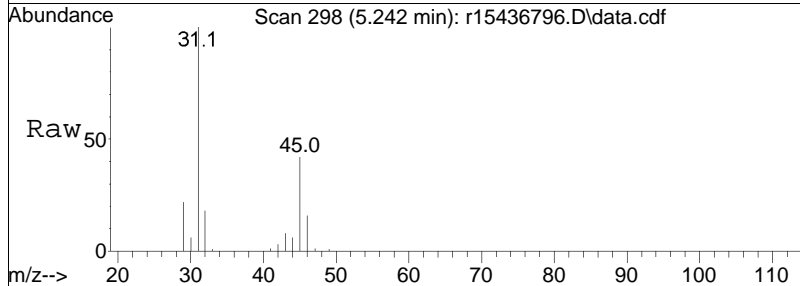
Tgt Ion: 50 Resp: 11570
 Ion Ratio Lower Upper
 50 100
 52 36.3 27.0 40.4

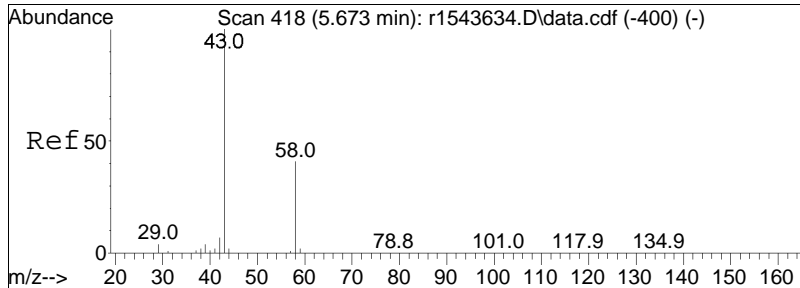




#15
 ethanol
 Concen: 5.93 ppbV
 RT: 5.242 min Scan# 298
 Delta R.T. 0.084 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

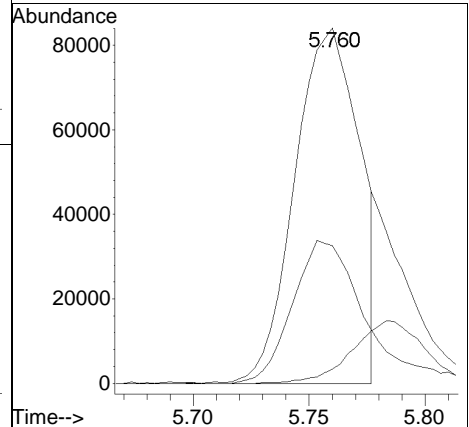
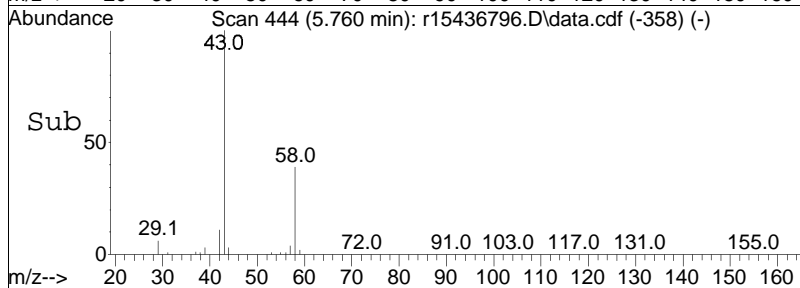
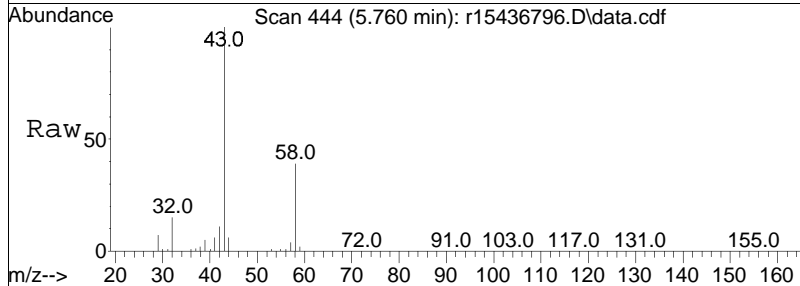
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
31	100		
45	42.3	33.0	49.4

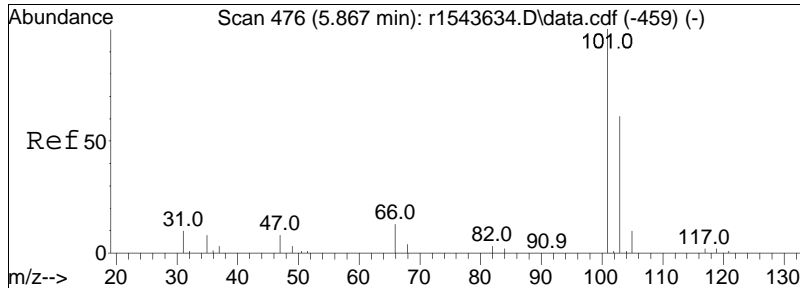




#19
 acetone
 Concen: 6.09 ppbV m
 RT: 5.760 min Scan# 444
 Delta R.T. 0.087 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

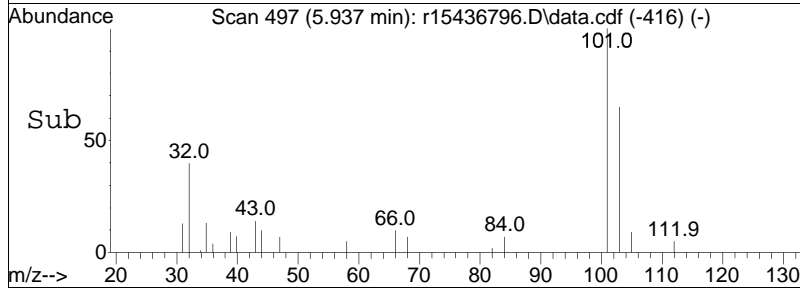
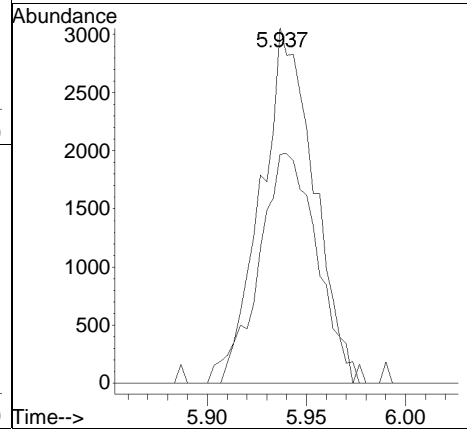
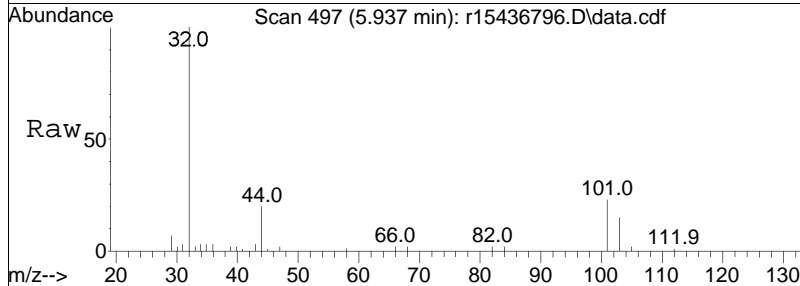
Tgt Ion	Resp	Lower	Upper
43	100		
58	38.7	33.2	49.8
57	4.0	0.9	1.3#

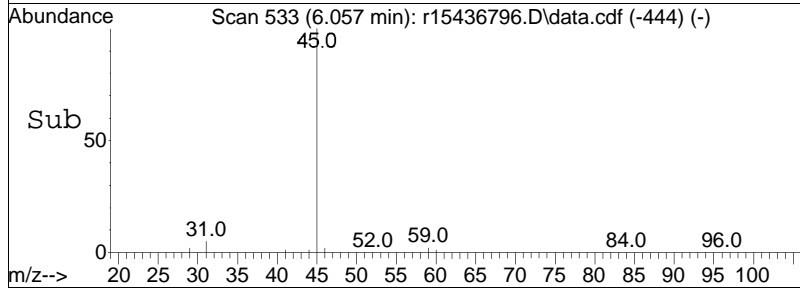
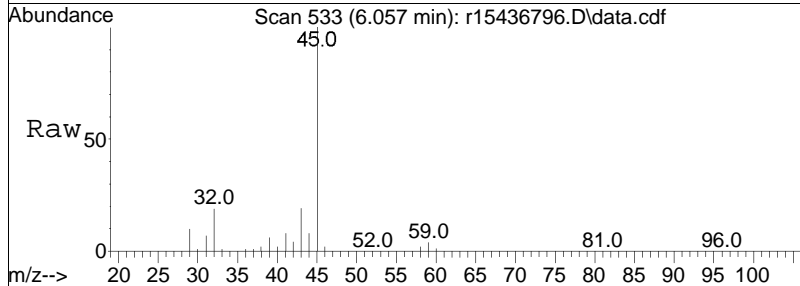
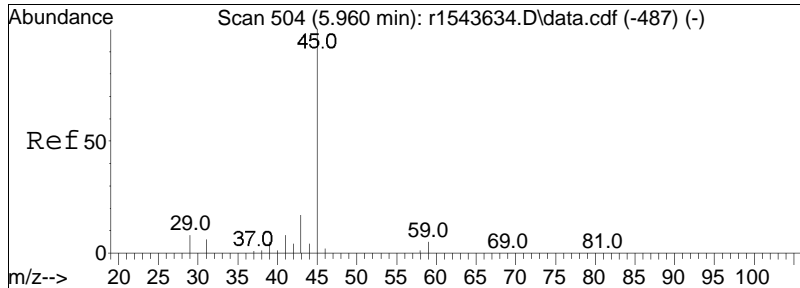




#21
 trichlorofluoromethane
 Concen: 0.21 ppbV
 RT: 5.937 min Scan# 497
 Delta R.T. 0.070 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

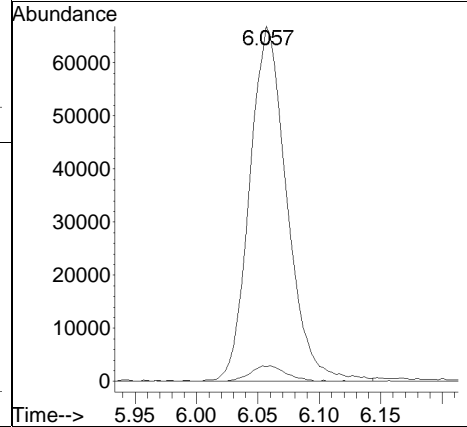
Tgt Ion	Ratio	Lower	Upper
101	100		
103	64.5	48.6	73.0

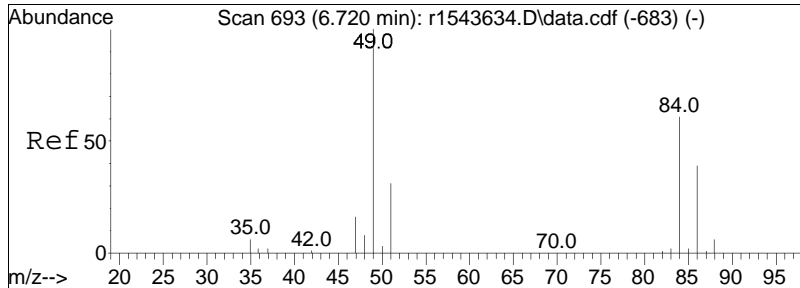




#22
 isopropyl alcohol
 Concen: 3.90 ppbV
 RT: 6.057 min Scan# 533
 Delta R.T. 0.097 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

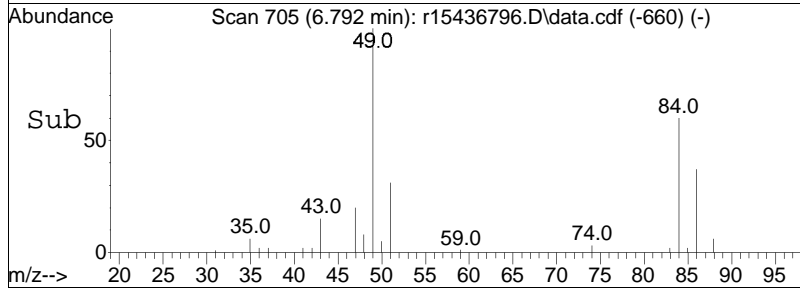
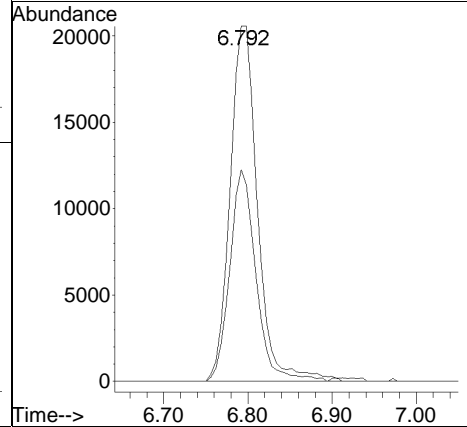
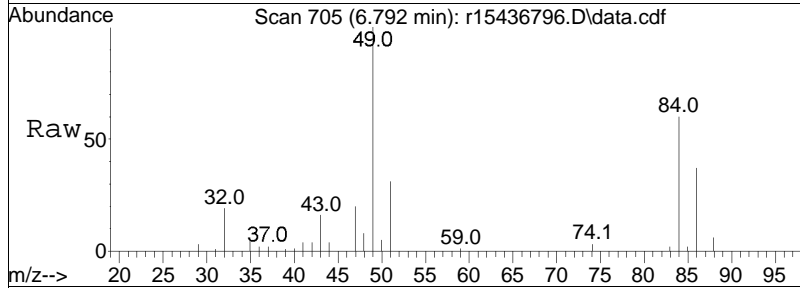
Tgt Ion:	45	59	Resp:	141390
Ion Ratio	100	4.2	Lower	Upper
			3.6	5.4

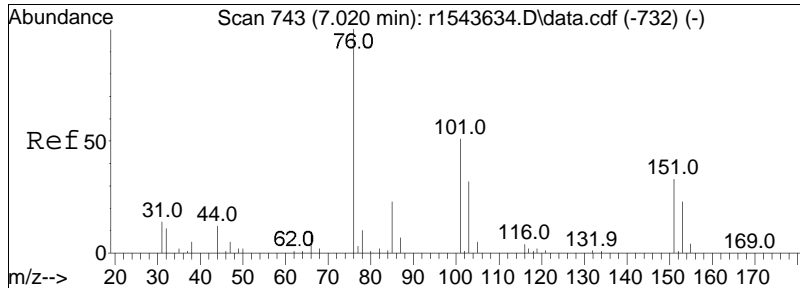




#28
 methylene chloride
 Concen: 1.78 ppbV
 RT: 6.792 min Scan# 705
 Delta R.T. 0.072 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

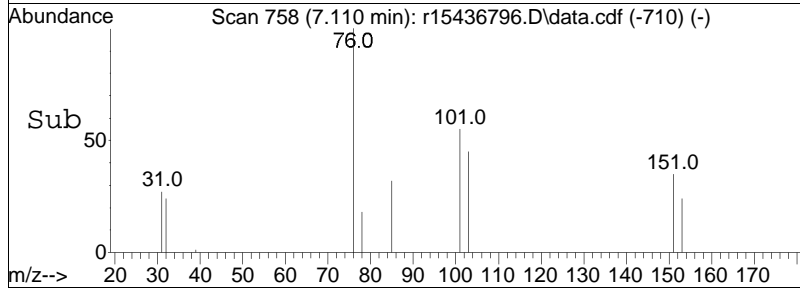
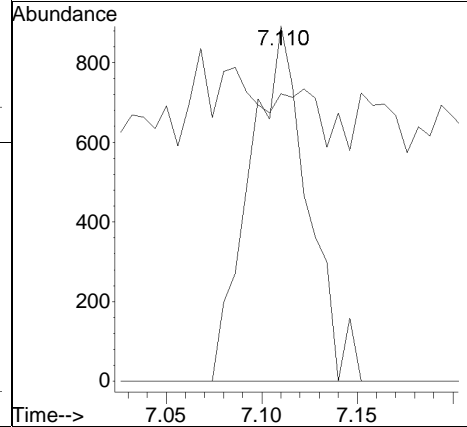
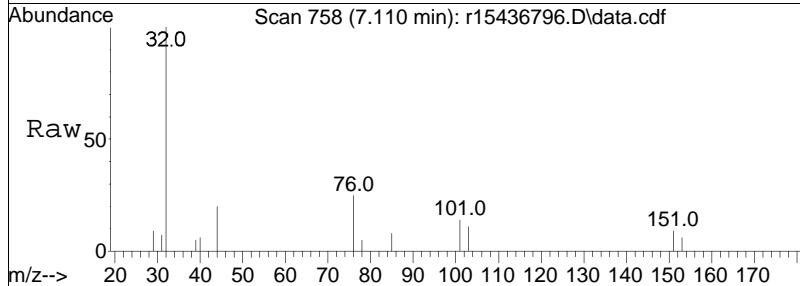
Tgt Ion: 49 Resp: 46976
 Ion Ratio Lower Upper
 49 100
 84 59.6 48.8 73.2

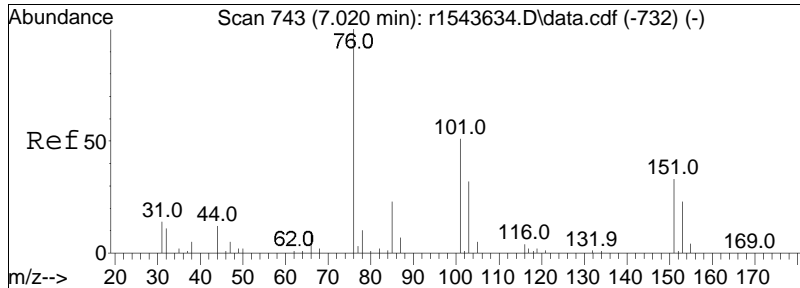




#30
 carbon disulfide
 Concen: 0.04 ppbV
 RT: 7.110 min Scan# 758
 Delta R.T. 0.090 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

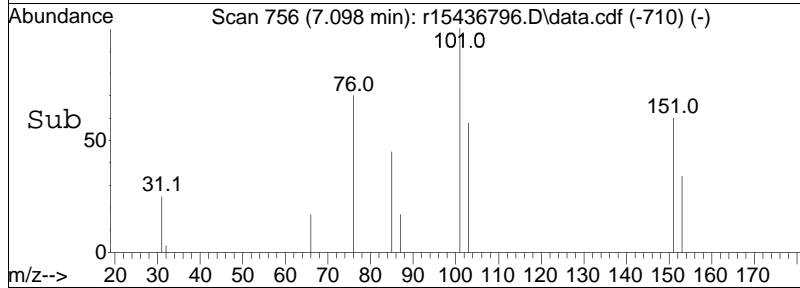
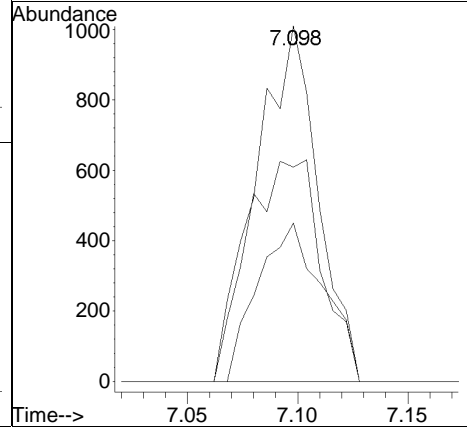
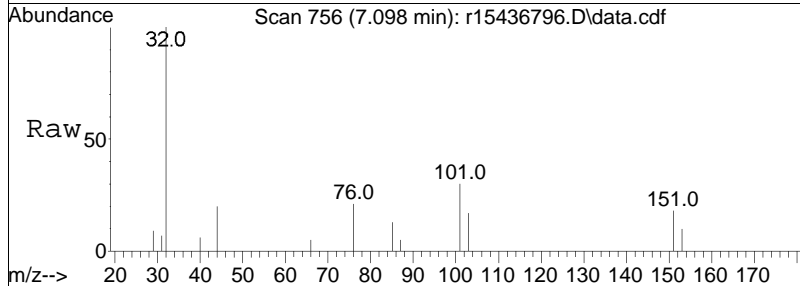
Tgt Ion:	76	Resp:	1889
Ion Ratio	Lower	Upper	
76	100		
44	80.9	9.8	14.6#

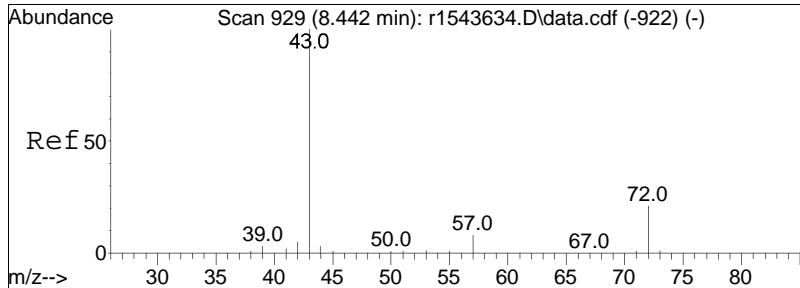




#31
 Freon 113
 Concen: 0.07 ppbV
 RT: 7.098 min Scan# 756
 Delta R.T. 0.078 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

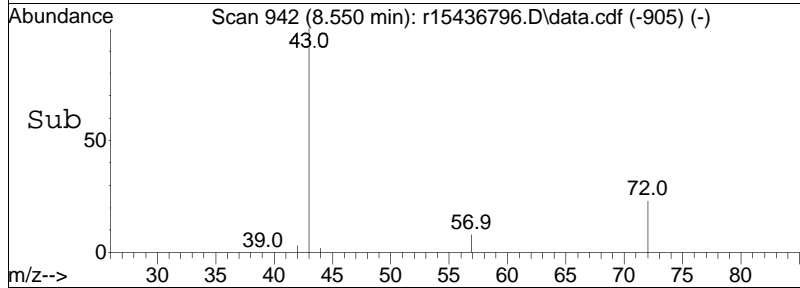
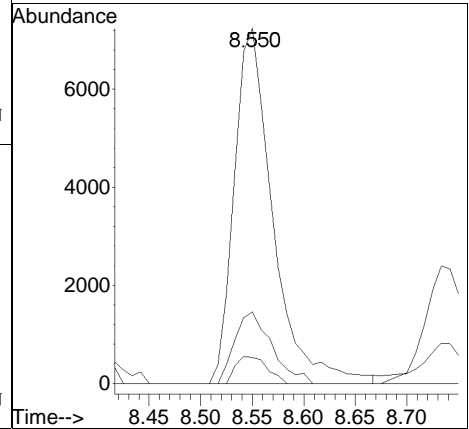
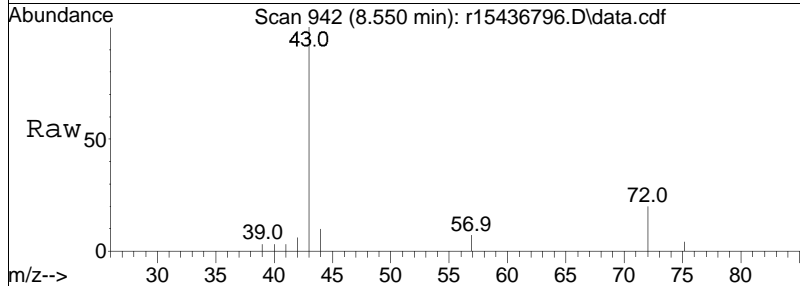
Tgt Ion	Ratio	Lower	Upper
101	100		
85	44.6	36.6	55.0
151	60.3	52.3	78.5

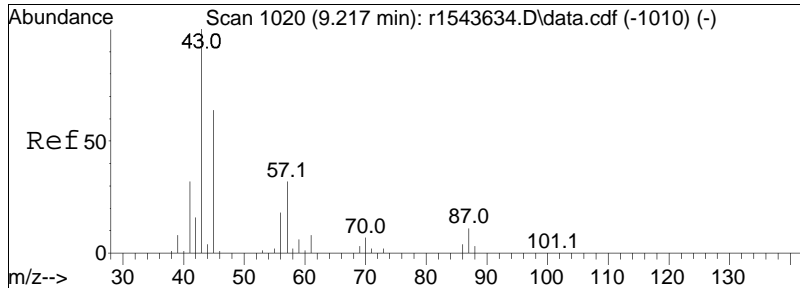




#36
 2-butanone
 Concen: 0.40 ppbV
 RT: 8.550 min Scan# 942
 Delta R.T. 0.108 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

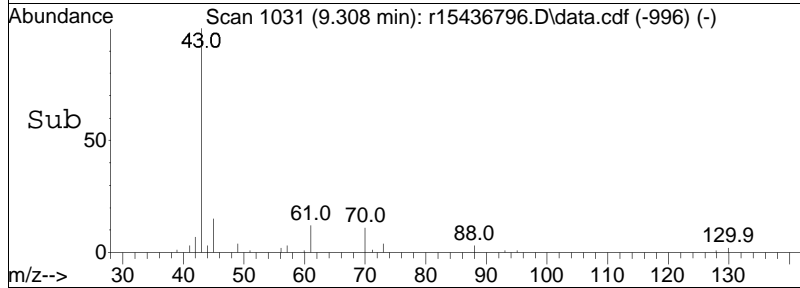
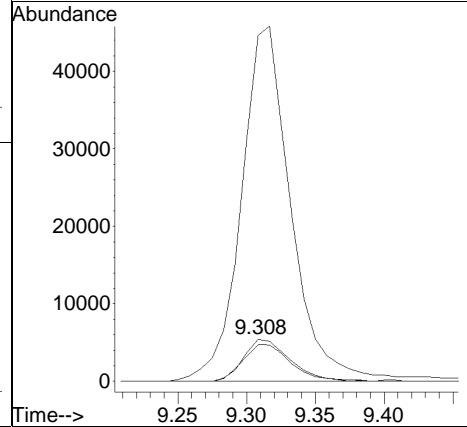
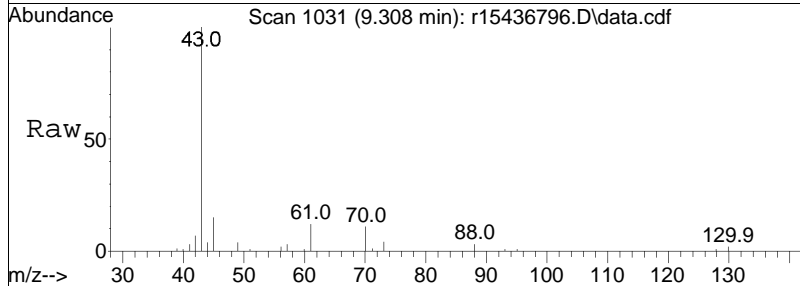
Tgt Ion	Resp	Lower	Upper
43	18882		
72	20.1	16.8	25.2
57	7.3	6.0	9.0

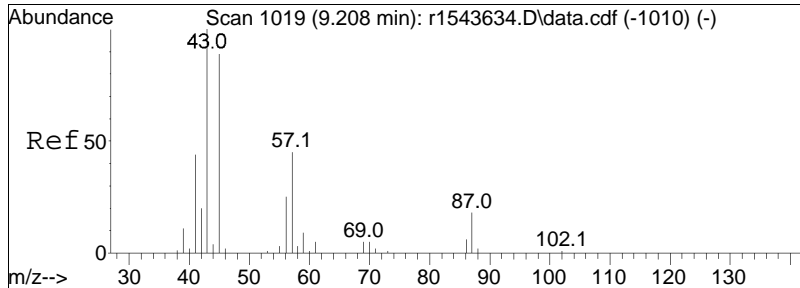




#38
 Ethyl Acetate
 Concen: 1.80 ppbV
 RT: 9.308 min Scan# 1031
 Delta R.T. 0.092 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

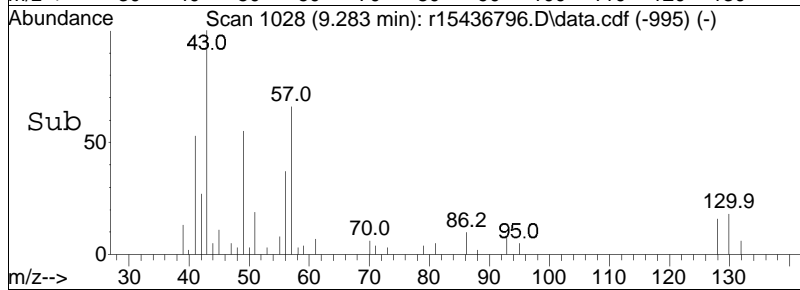
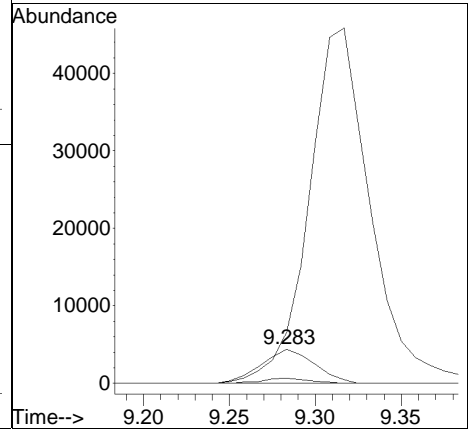
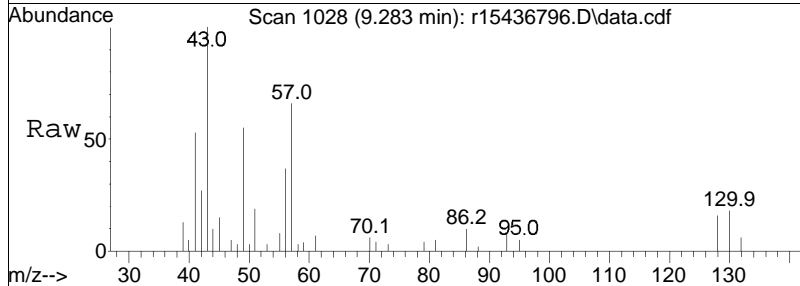
Tgt Ion	Resp	Lower	Upper
61	100		
70	87.4	71.4	107.2
43	823.2	1000.1	1500.1#

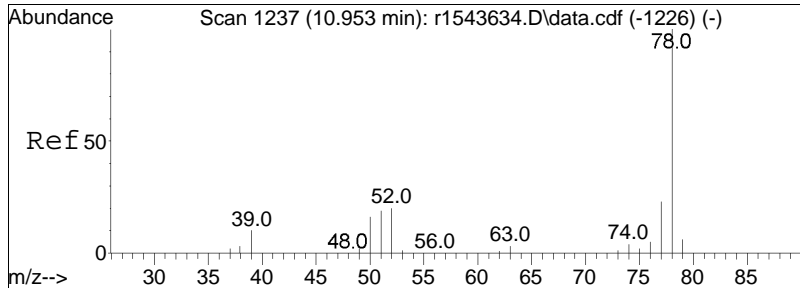




#44
 hexane
 Concen: 0.25 ppbV
 RT: 9.283 min Scan# 1028
 Delta R.T. 0.075 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

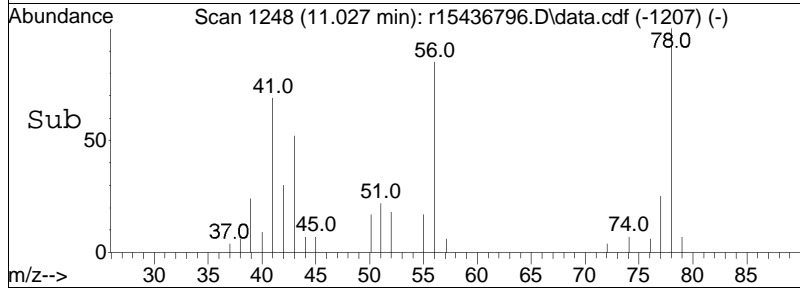
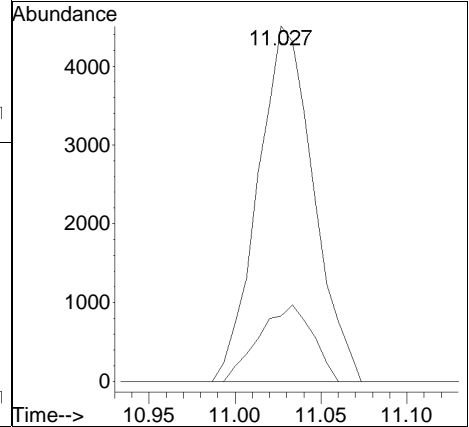
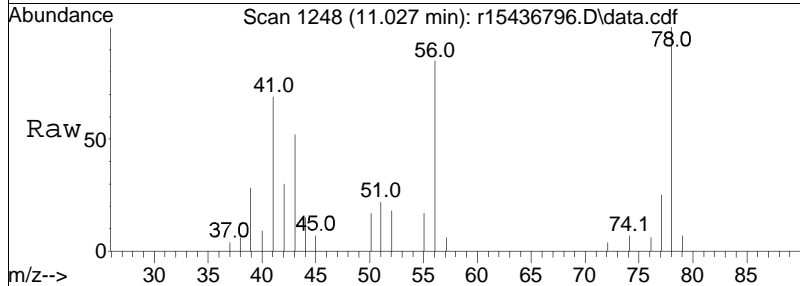
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
57	100		
43	150.8	179.7	269.5#
86	15.2	11.3	16.9

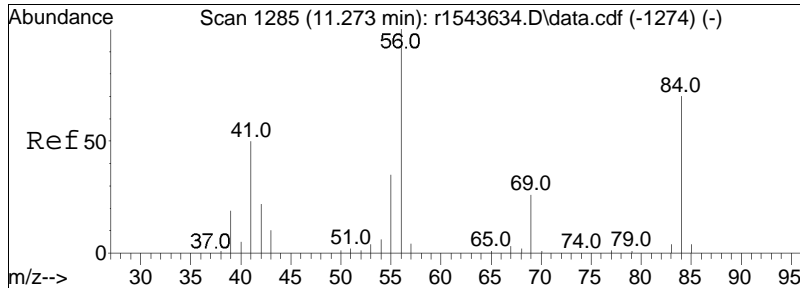




#50
benzene
Concen: 0.16 ppbV
RT: 11.027 min Scan# 1248
Delta R.T. 0.073 min
Lab File: r15436796.D
Acq: 29 Mar 2024 8:09 PM

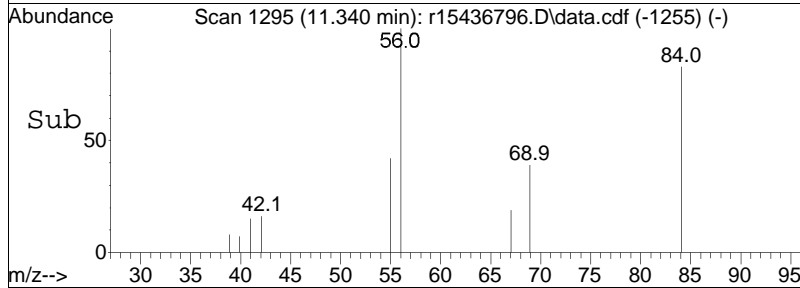
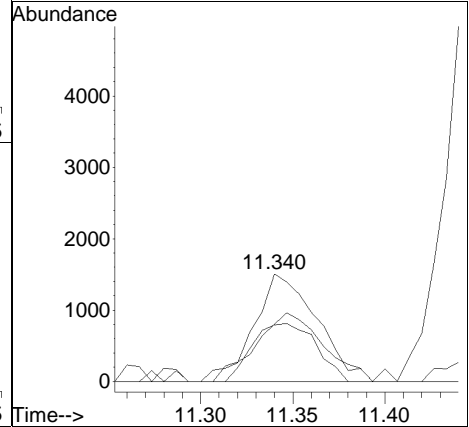
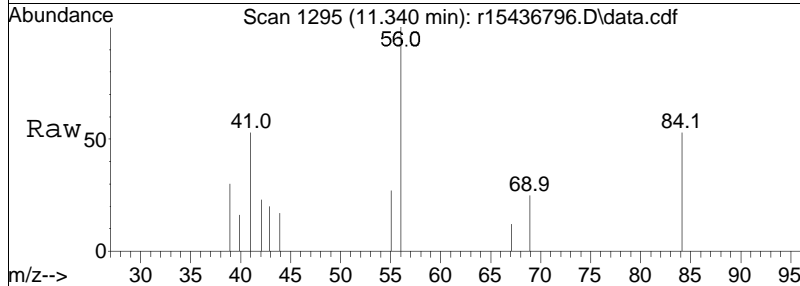
Tgt Ion:	78	52	Resp:	10148
Ion Ratio	100	18.4	Lower	Upper
			16.0	24.0

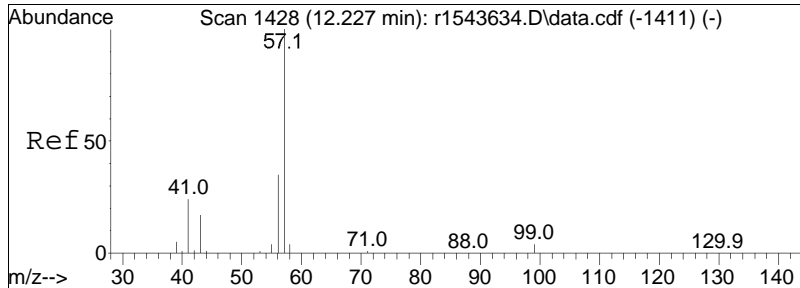




#53
 cyclohexane
 Concen: 0.09 ppbV
 RT: 11.340 min Scan# 1295
 Delta R.T. 0.067 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

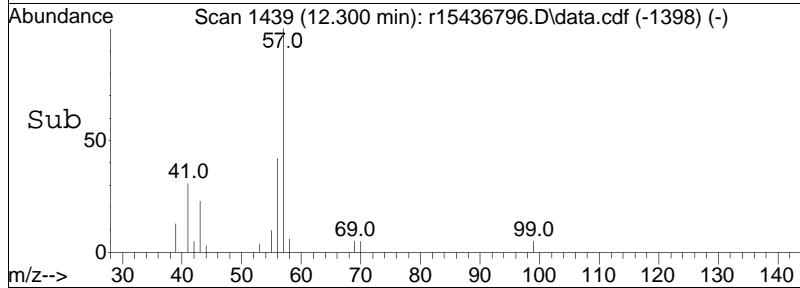
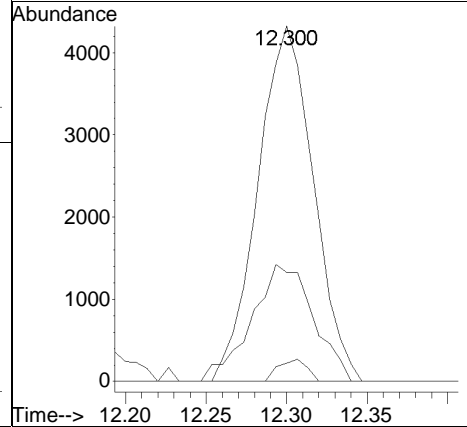
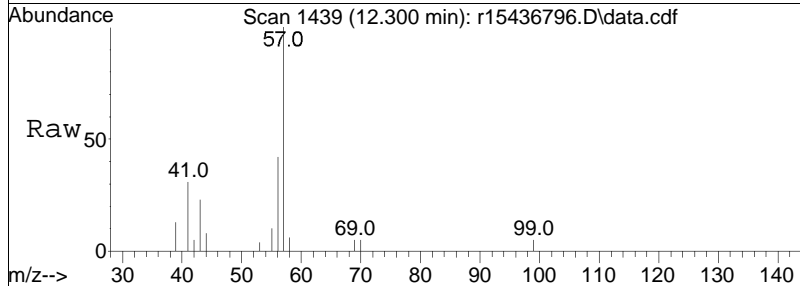
Tgt Ion	Resp	Lower	Upper
56	100		
84	52.7	55.9	83.9#
41	53.3	40.3	60.5

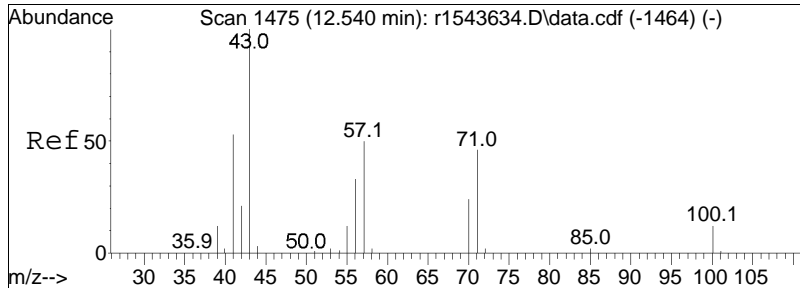




#60
 2,2,4-trimethylpentane
 Concen: 0.09 ppbV
 RT: 12.300 min Scan# 1439
 Delta R.T. 0.073 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

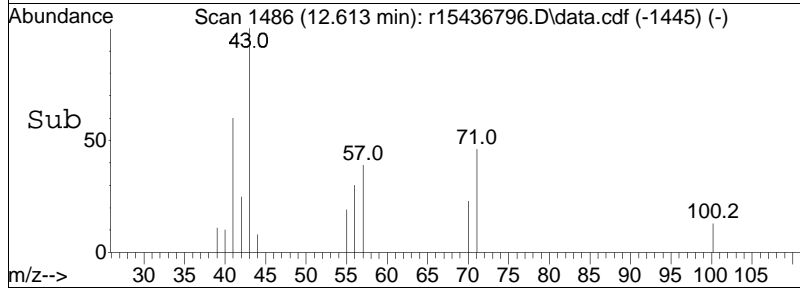
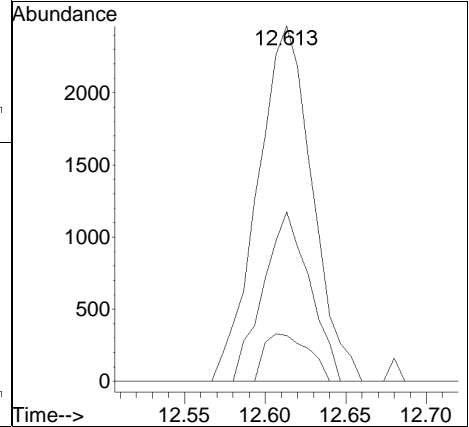
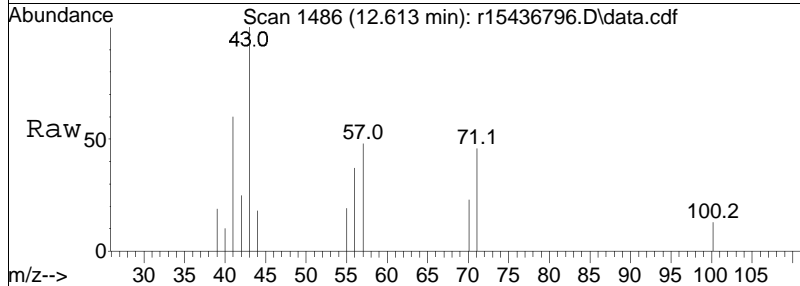
Tgt Ion	Resp	Lower	Upper
57	10375		
99	5.1	3.1	4.7#
41	30.7	19.4	29.2#

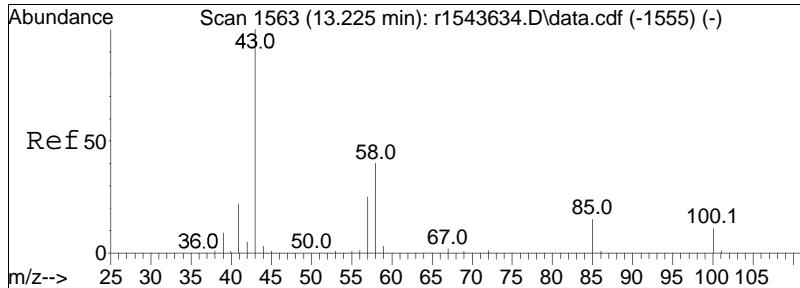




#62
 heptane
 Concen: 0.12 ppbV
 RT: 12.613 min Scan# 1486
 Delta R.T. 0.073 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

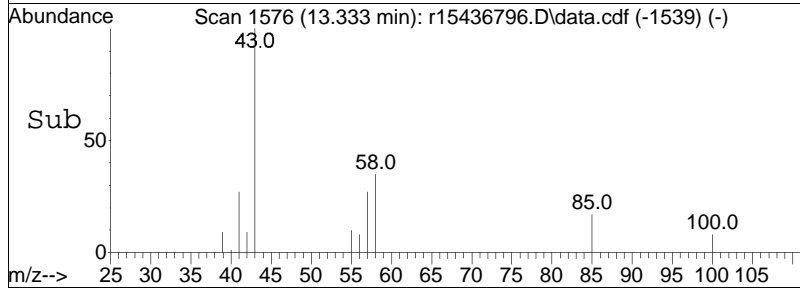
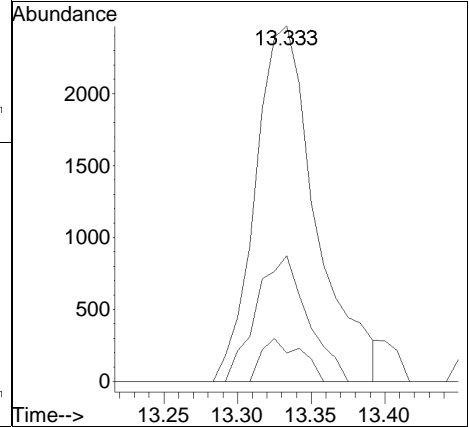
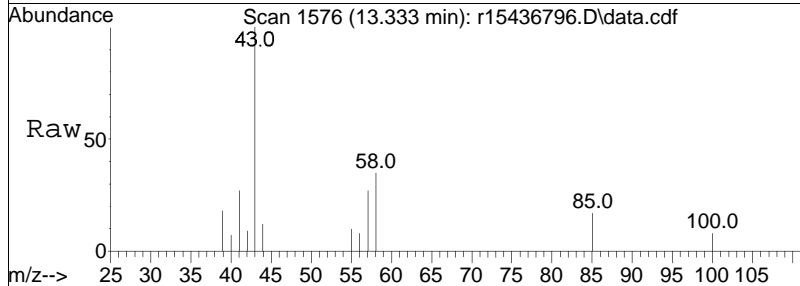
Tgt Ion	Resp	Lower	Upper
43	5817		
43	100		
57	47.7	39.8	59.6
100	12.9	9.8	14.8

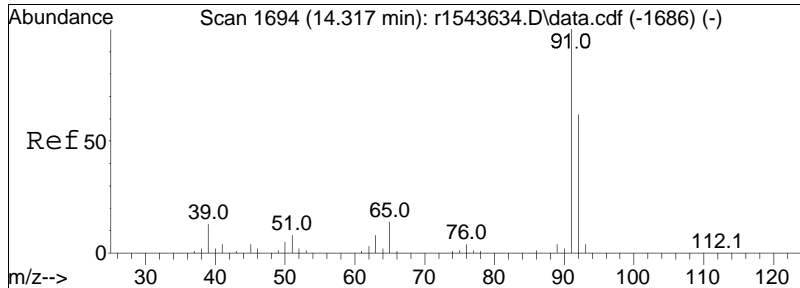




#64
 4-methyl-2-pentanone
 Concen: 0.13 ppbV
 RT: 13.333 min Scan# 1576
 Delta R.T. 0.108 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

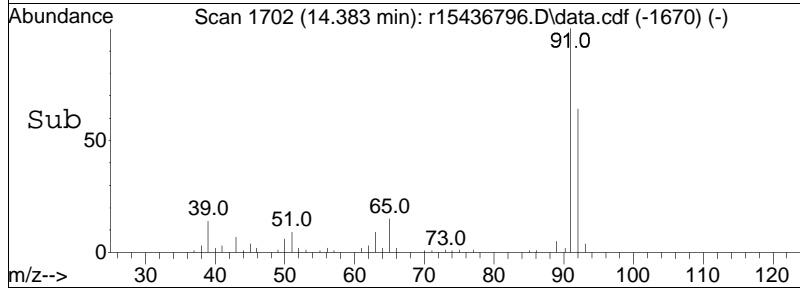
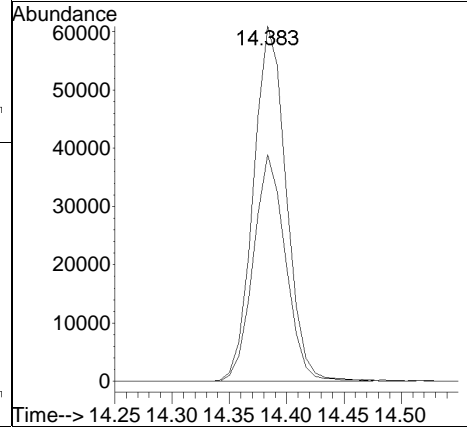
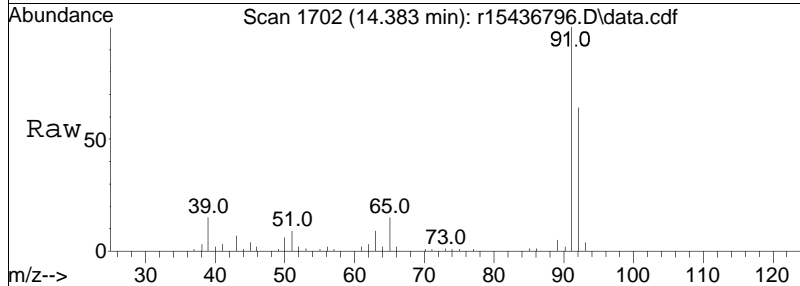
Tgt Ion	Resp	Lower	Upper
43	100		
58	35.3	31.8	47.8
100	8.0	8.9	13.3#

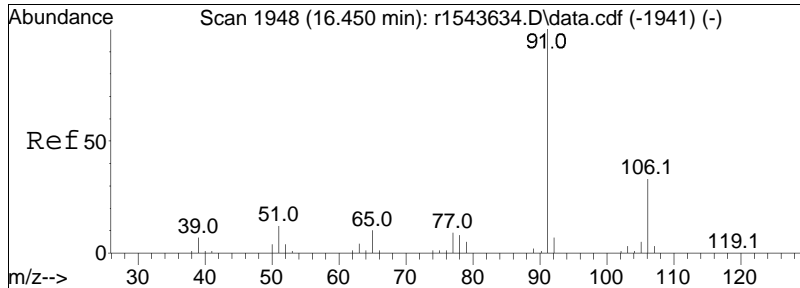




#68
 toluene
 Concen: 1.72 ppbV
 RT: 14.383 min Scan# 1702
 Delta R.T. 0.067 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

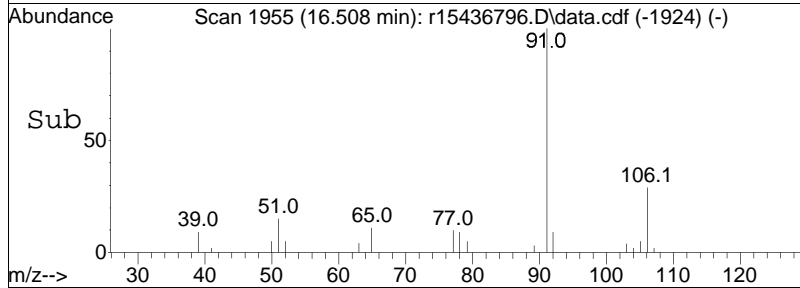
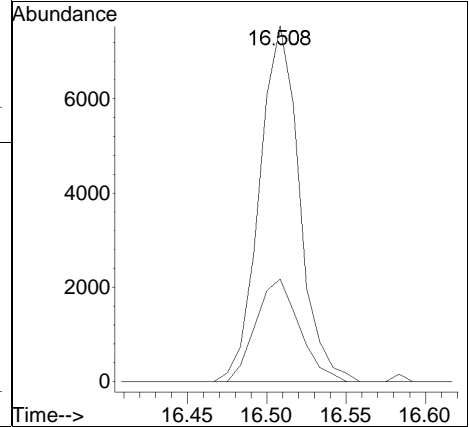
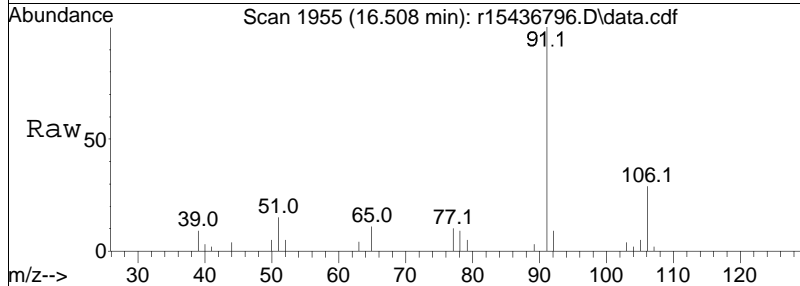
Tgt Ion:	Resp:	Lower	Upper
91	100		
92	63.8	49.3	73.9

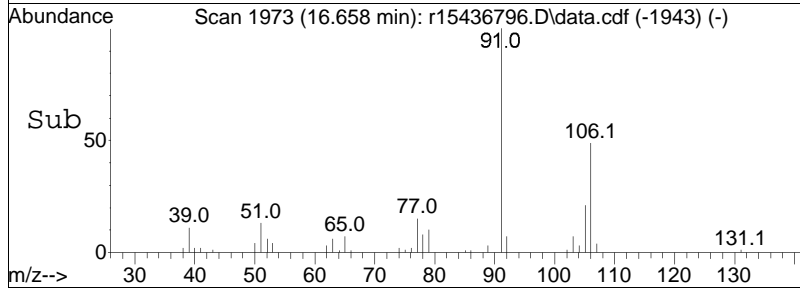
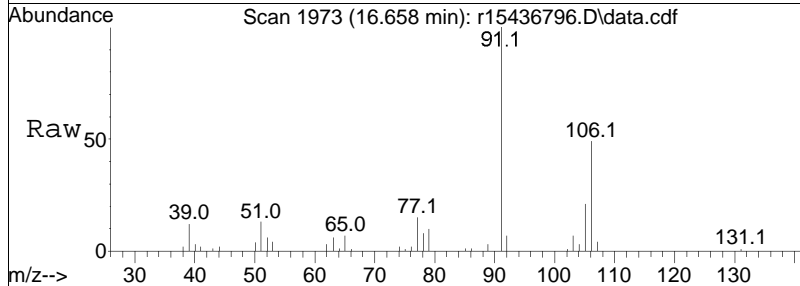
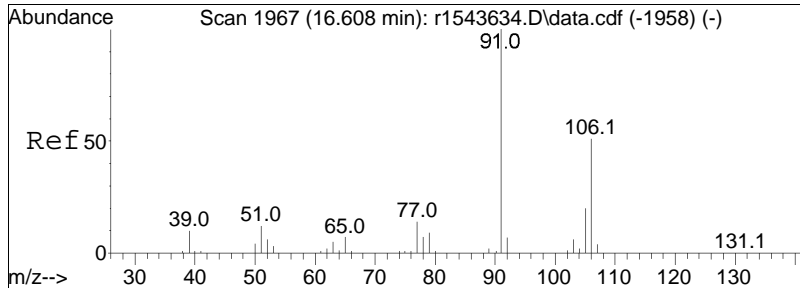




#81
 ethylbenzene
 Concen: 0.15 ppbV
 RT: 16.508 min Scan# 1955
 Delta R.T. 0.058 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

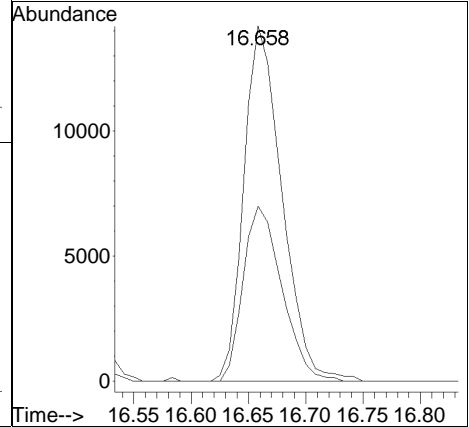
Tgt Ion:	91	106	Resp:	13205
Ion Ratio	100	28.8	Lower	Upper
			26.4	39.6

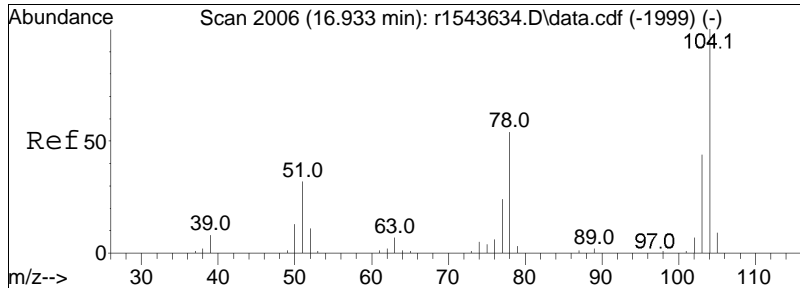




#83
 m+p-xylene
 Concen: 0.46 ppbV
 RT: 16.658 min Scan# 1973
 Delta R.T. 0.050 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

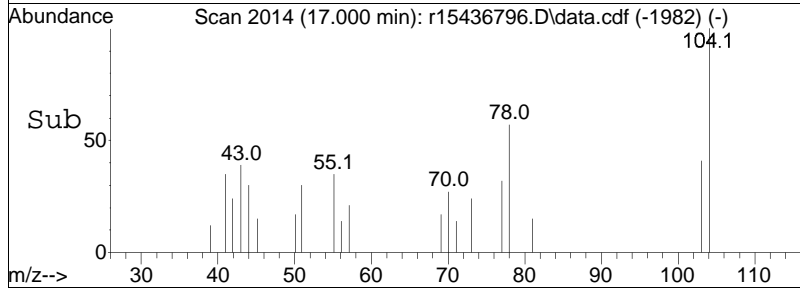
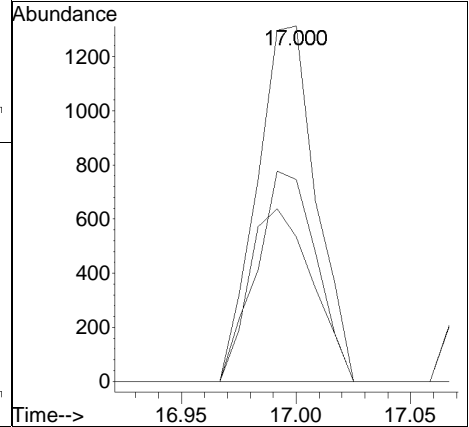
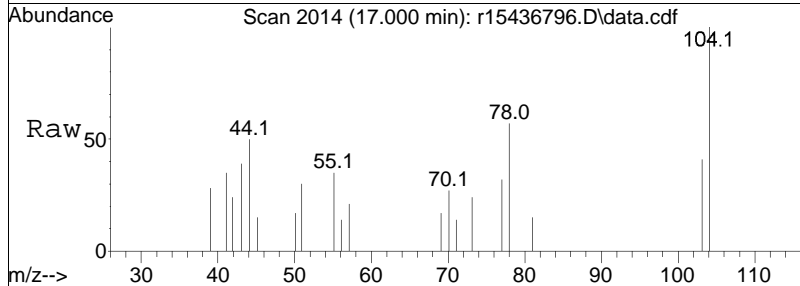
Tgt Ion:	Resp:	Lower	Upper
91	32950		
106	49.4	40.4	60.6

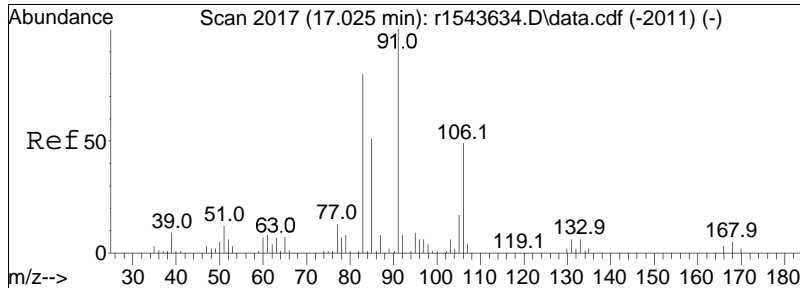




#85
 styrene
 Concen: 0.05 ppbV
 RT: 17.000 min Scan# 2014
 Delta R.T. 0.067 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

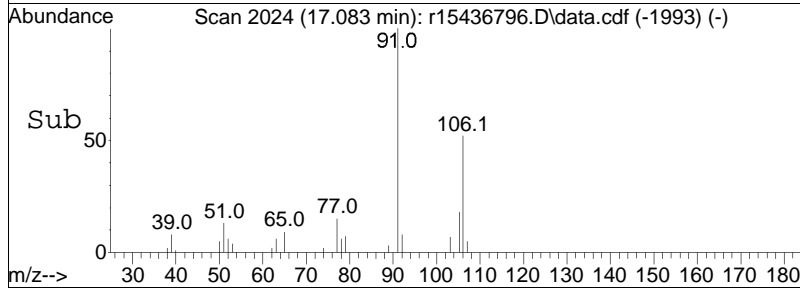
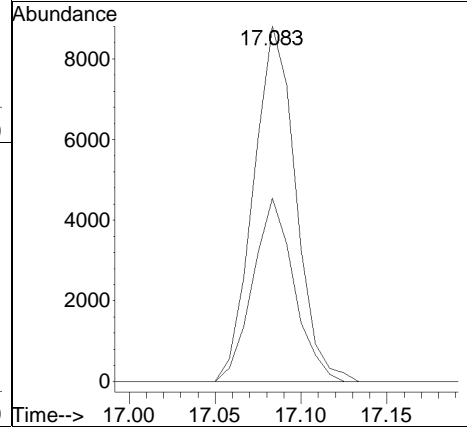
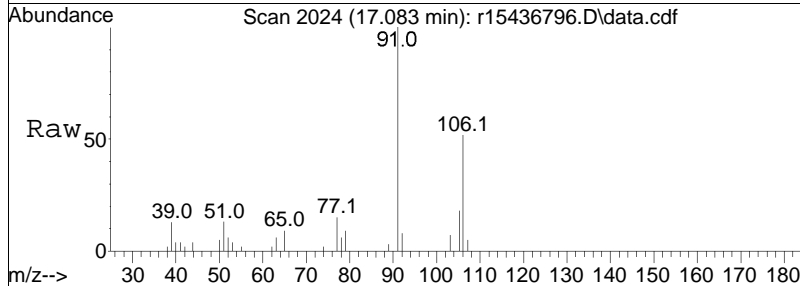
Tgt Ion	Ratio	Lower	Upper
104	100		
103	40.7	35.0	52.4
78	56.8	42.9	64.3

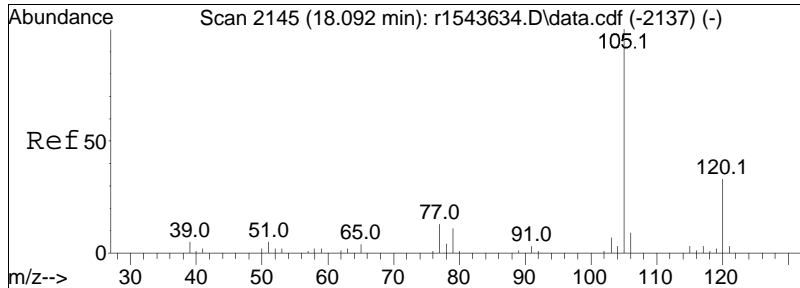




#87
 o-xylene
 Concen: 0.21 ppbV
 RT: 17.083 min Scan# 2024
 Delta R.T. 0.058 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

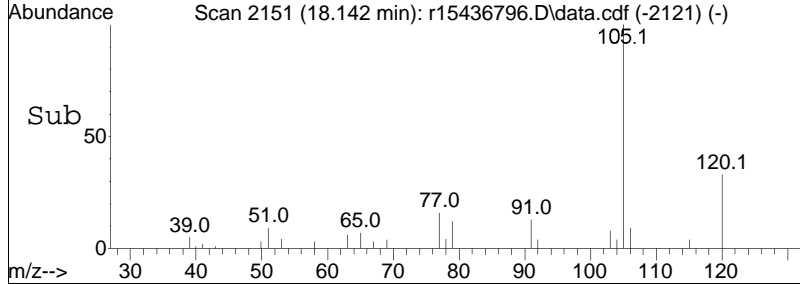
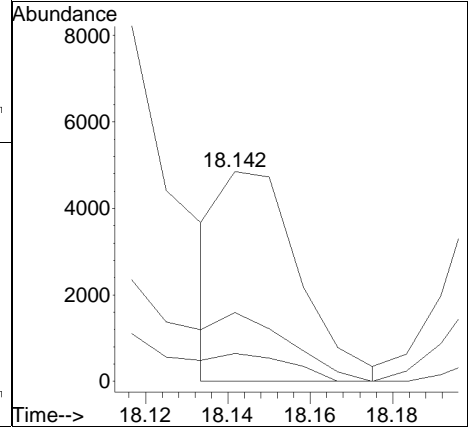
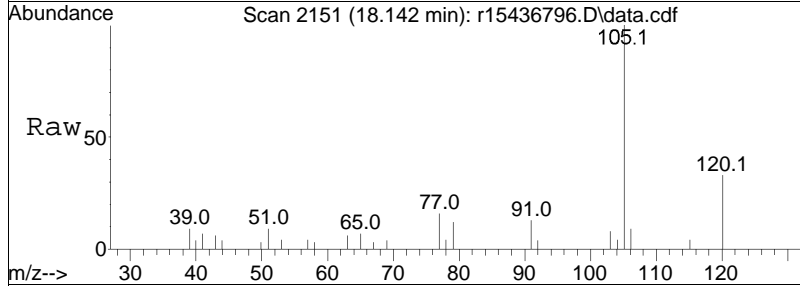
Tgt Ion: 91 Resp: 15044
 Ion Ratio Lower Upper
 91 100
 106 51.6 39.1 58.7

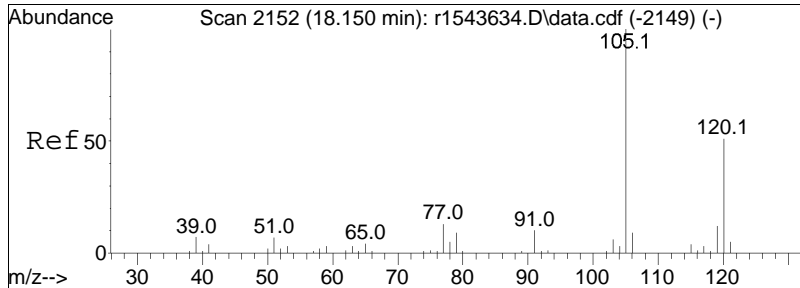




#96
 4-ethyl toluene
 Concen: 0.07 ppbV m
 RT: 18.142 min Scan# 2151
 Delta R.T. 0.050 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

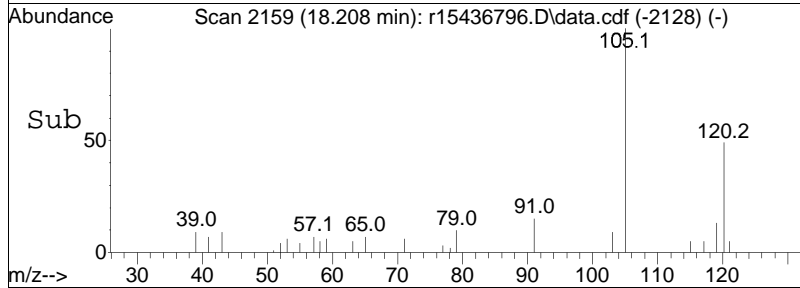
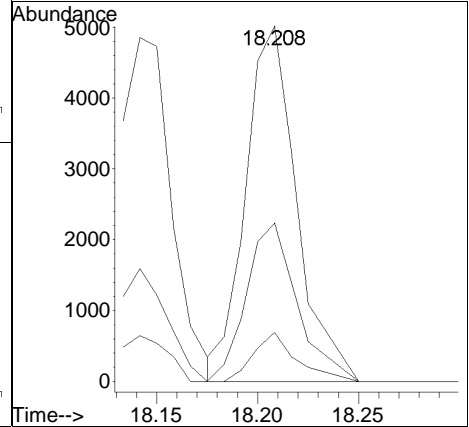
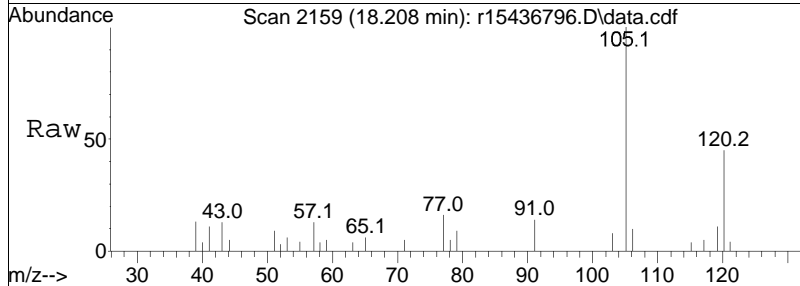
Tgt Ion	Resp	Lower	Upper
105	100		
120	32.8	26.1	39.1
91	13.3	8.2	12.4#

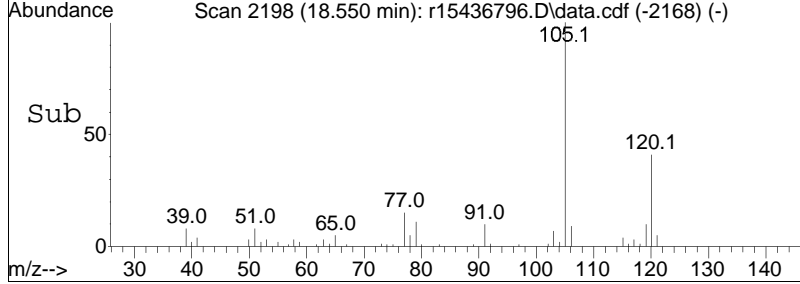
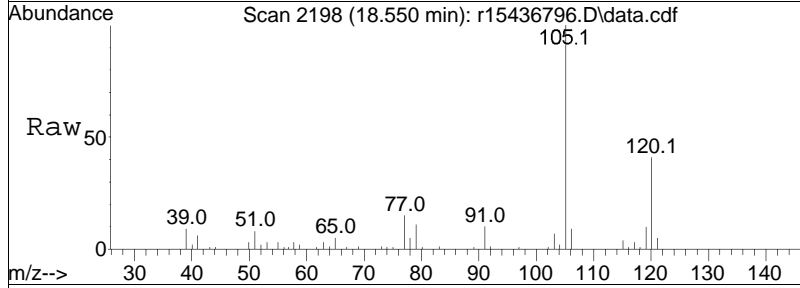
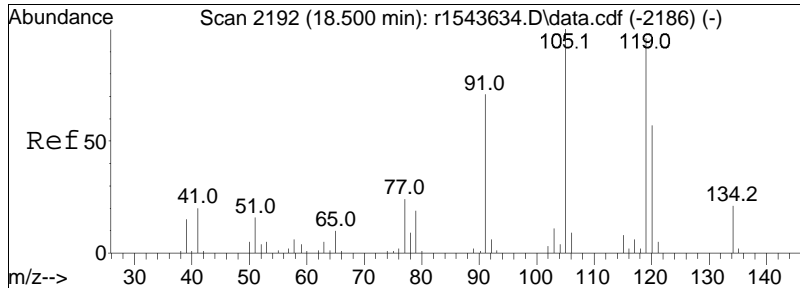




#97
 1,3,5-trimethylbenzene
 Concen: 0.12 ppbV m
 RT: 18.208 min Scan# 2159
 Delta R.T. 0.058 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

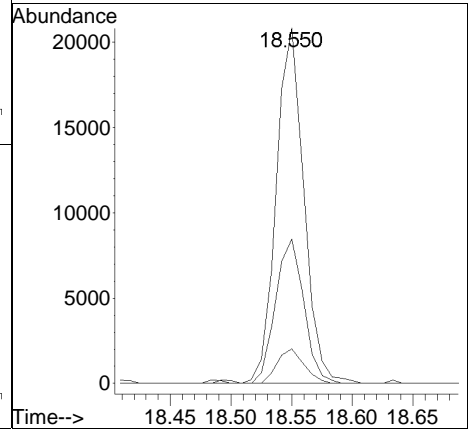
Tgt Ion	Ratio	Lower	Upper
105	100		
120	44.6	40.9	61.3
91	13.8	7.9	11.9#





#99
 1,2,4-trimethylbenzene
 Concen: 0.40 ppbV
 RT: 18.550 min Scan# 2198
 Delta R.T. 0.050 min
 Lab File: r15436796.D
 Acq: 29 Mar 2024 8:09 PM

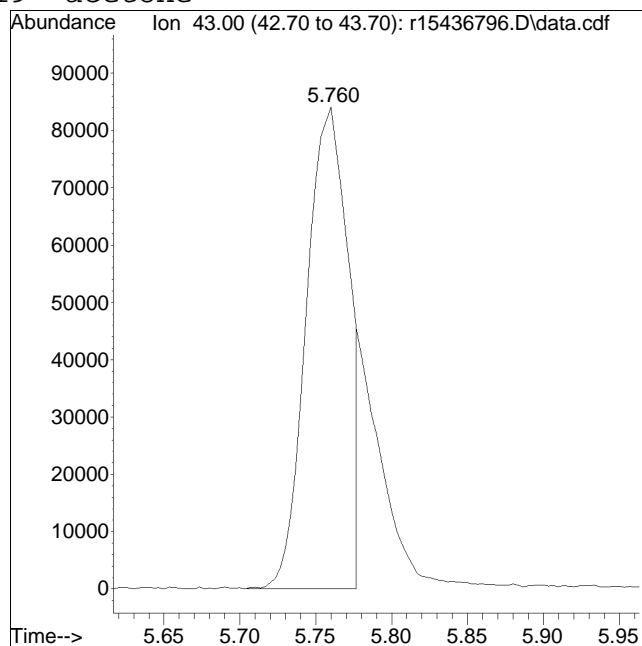
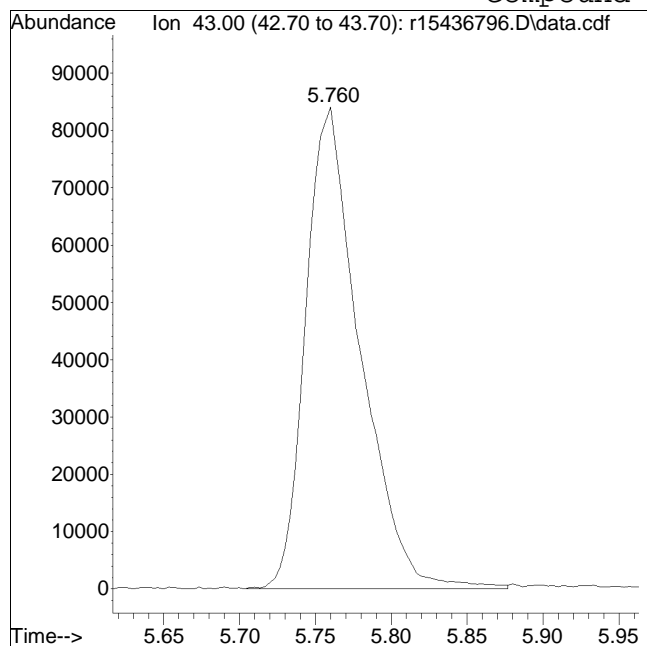
Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.7	45.8	68.8#
91	9.7	56.7	85.1#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436796.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:8: 9 Instrument :
Sample : WG1902670-5,3,250,250 Quant Date : 3/30/2024 7:23 am

Compound #19: acetone



Original Peak Response = 210719

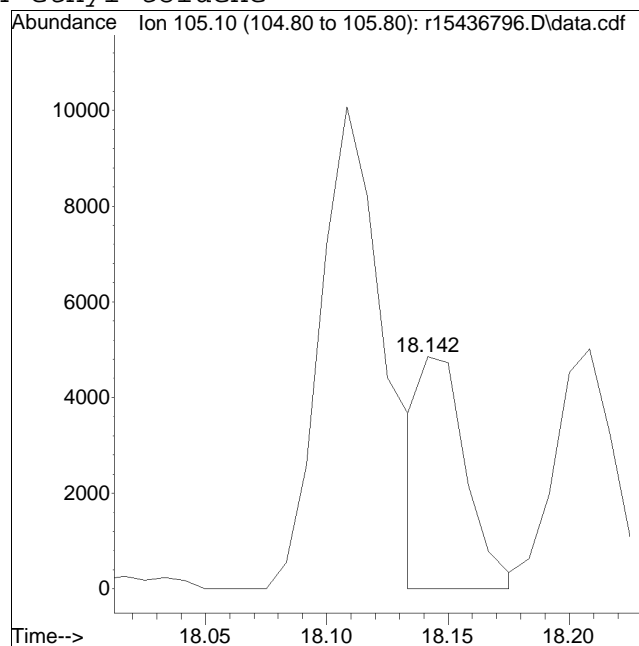
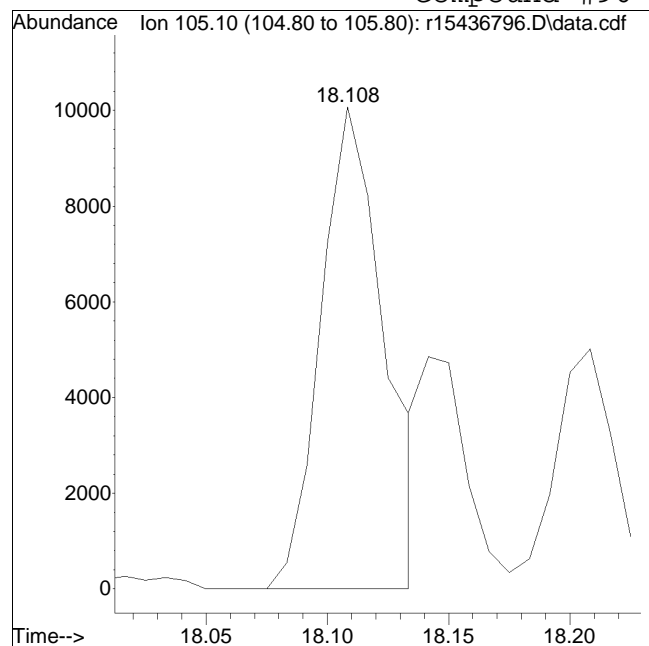
Manual Peak Response = 162655 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436796.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:8: 9 Instrument :
Sample : WG1902670-5,3,250,250 Quant Date : 3/30/2024 7:23 am

Compound #96: 4-ethyl toluene



Original Peak Response = 18366

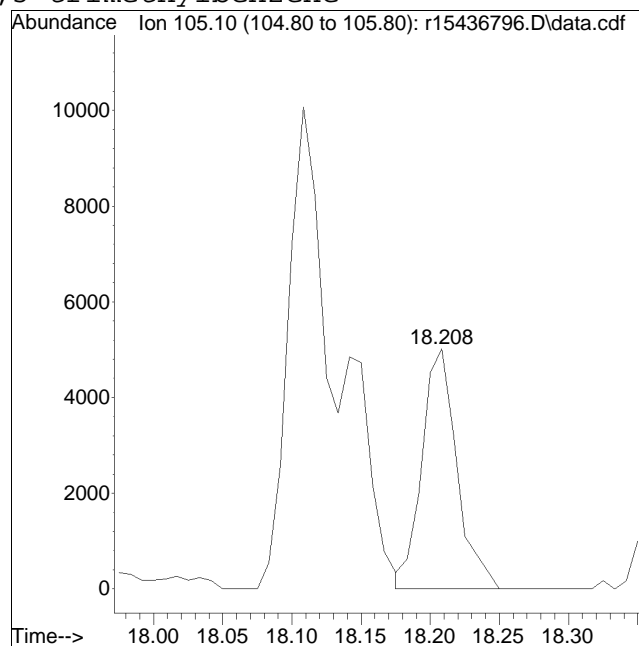
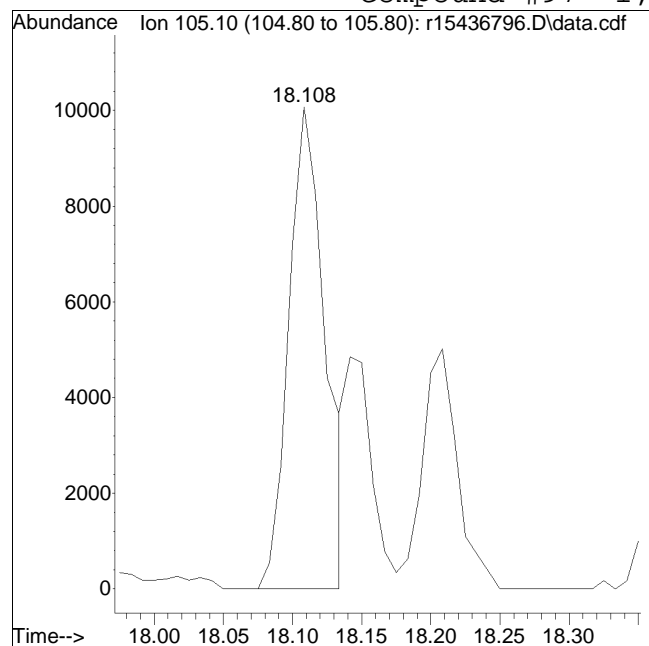
Manual Peak Response = 6440 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab15QMethod : TFS15_240322.M
Data File : r15436796.D Operator : AIRLAB15:BJB
Date Inj'd : 3/29/2020 0:8: 9 Instrument :
Sample : WG1902670-5,3,250,250 Quant Date : 3/30/2024 7:23 am

Compound #97: 1,3,5-trimethylbenzene



Original Peak Response = 18366

Manual Peak Response = 10308 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) * \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI/14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF/14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 30 2024, 12:24 pm

Work Group: WG1902103 for Department: 3 GC/MS

Created: 28-MAR-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2413824-01	IA-1	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-02	IA-2	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-03	OA-1	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-04	OA-2	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413828-01	IA-1	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-02	IA-2	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-03	IA-3	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-04	IA-4	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-05	OA-5	S TO15-LL	AIR	DONE	U	0412	0328	S0	Can-6
L2414212-01	IA-7	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-02	IA-203	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-03	IA-202	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-04	IA-201	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-05	IAQ-1	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-06	IA-11	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-07	IA-9	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-08	AMB-1	S TO15-LL	AIR	DONE	U	0411	0328	S0	Can-6
L2414305-02	IA-01	S TO15-LL	AIR	DONE	U	0414	0329	S0	Can-6
L2414305-03	IA-02	S TO15-LL	AIR	DONE	U	0414	0329	S0	Can-6
L2414305-04	AA-01	S TO15-LL	AIR	DONE	U	0414	0329	S0	Can-6
WG1902103-1	MS BFB Tune Standard	S TO15-LL	AIR	DONE	U				
WG1902103-2	Continuing Calibrati	S TO15-LL	AIR	DONE	U				
WG1902103-3	Laboratory Control S	S TO15-LL	AIR	DONE	U				
WG1902103-4	Laboratory Method Bl	S TO15-LL	AIR	DONE	U				
WG1902103-5	Duplicate Sample	S TO15-LL	AIR	DONE	U				
Comments:									
WG1902103-5	L2414212-05								

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 30 2024, 12:24 pm

Work Group: WG1902670 for Department: 3 GC/MS

Created: 29-MAR-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2413832-06	SV-10	S TO15-LL	SOIL_VAPOR	DONE	U	0411	0328	S0	Can-6
L2413832-07	SV-11	S TO15-LL	SOIL_VAPOR	DONE	U	0411	0328	S0	Can-6
L2413832-08	SV-13	S TO15-LL	SOIL_VAPOR	DONE	U	0411	0328	S0	Can-6
L2414148-01	RISER-1	S TO15-LL	SOIL_VAPOR	DONE	U	0413	0329	S0	Can-6
L2414148-02	RISER-2	S TO15-LL	SOIL_VAPOR	DONE	U	0413	0329	S0	Can-6
L2414212-09	SVP-103	S TO15-LL	SOIL_VAPOR	DONE	U	0412	0328	S0	Can-2.7
L2414212-10	SVP-204	S TO15-LL	SOIL_VAPOR	DONE	U	0412	0328	S0	Can-2.7
L2414212-11	SVP-203	S TO15-LL	SOIL_VAPOR	DONE	U	0412	0328	S0	Can-2.7
L2414212-12	SVP-9	S TO15-LL	SOIL_VAPOR	DONE	U	0412	0328	S0	Can-2.7
L2414248-01	S50035VT-0027	S TO15-LL	SOIL_VAPOR	DONE	U	0413	0329	S0	Can-2.7
L2414248-02	S50035VT-0028	S TO15-LL	SOIL_VAPOR	DONE	U	0413	0329	S0	Can-2.7
L2414248-03	S50035VT-0029	S TO15-LL	SOIL_VAPOR	DONE	U	0413	0329	S0	Can-2.7
L2414305-01	SSV-01	S TO15-LL	SOIL_VAPOR	DONE	U	0414	0329	S0	Can-6
L2415182-01	IA001	S TO15-LL	AIR	DONE	U	0418	0403	S0	Can-6
L2415182-02	IA002	S TO15-LL	AIR	DONE	U	0418	0403	S0	Can-6
L2415182-03	OA001	S TO15-LL	AIR	DONE	U	0418	0403	S0	Can-6
L2415435-01	MPSS1-032024-BP-001	S TO15-LL	SOIL_VAPOR	DONE	U	0419	0404	S0	Can-6
L2416215-01	SVE_EFF_MAR2024	S TO15-LL	SOIL_VAPOR	DONE	U	0424	0401	S0	Tedlar-Poly5
WG1902670-1	MS BFB Tune Standard	S TO15-LL	AIR	DONE	U				
WG1902670-1	MS BFB Tune Standard	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1902670-2	Continuing Calibrati	S TO15-LL	AIR	DONE	U				
WG1902670-2	Continuing Calibrati	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1902670-3	Laboratory Control S	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1902670-3	Laboratory Control S	S TO15-LL	AIR	DONE	U				
WG1902670-4	Laboratory Method Bl	S TO15-LL	SOIL_VAPOR	DONE	U				
WG1902670-4	Laboratory Method Bl	S TO15-LL	AIR	DONE	U				
WG1902670-5	Duplicate Sample	S TO15-LL	AIR	DONE	U				
WG1902670-5	Duplicate Sample	S TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG1902670-5 L2415182-02

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AIRLAB22 Internal Standard/Surrogate IDs: SS22-029 / SS21-026

Date: 11/29/2023 Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Check Pass
1	TA22112201	TO15_SFS.qgm	R221886.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R221887.qgd	50 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R221888.qgd	125 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R221889.qgd	250 mL SS23-022D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R221890.qgd	50 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R221891.qgd	125 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R221892.qgd	250 mL SS23-022C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R221893.qgd	125 mL SS23-022B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R221894.qgd	250 mL SS23-022B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R221895.qgd	50 mL SS23-022A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R221896.qgd	125 mL SS23-022A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R221897.qgd	250 mL SS23-022A	LL ONLY	DEF	NA
1	BA22112201	TO15_SFS.qgm	R221898.qgd	250 mL	LL BLANK		NA
1	BA22112202	TO15_SFS.qgm	R221899.qgd	250 mL	SIM BLANK/ TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R221900.qgd	250 mL SS223-027H	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R221901.qgd	125 mL SS223-027H	SIM ICV	DEF ICV AP2	NA

ID: Airlab15
 Date: 03/22/24
 Initials: JMB

Internal Standard/Surrogate IDs: SS20-027 / SS23-018
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 240322.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/sublist	ak Check Pa
1	BA15032201	TO15_SFS.qgm	R1543623.qgd	250 mL			NA
1	BA15032202	TO15_SFS.qgm	R1543624.qgd	250 mL			NA
1	BA15032203	TO15_SFS.qgm	R1543625.qgd	250 mL			NA
1	TA15032201	TO15_SFS.qgm	R1543626.qgd	250 mL	TUNE		NA
9	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1543627.qgd	50 mL SS24-006D	SIM ONLY	DEF	NA
9	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1543628.qgd	125 mL SS24-006D	SIM ONLY	DEF	NA
9	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1543629.qgd	250 mL SS24-006D	SIM ONLY	DEF	NA
10	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1543630.qgd	50 mL SS24-006C		DEF	NA
10	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1543631.qgd	125 mL SS24-006C		DEF	NA
10	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1543632.qgd	250 mL SS24-006C		DEF	NA
11	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1543633.qgd	125 mL SS24-006B		DEF	NA
11	ITO15-SIMSTD010	TO15_SFS.qgm	R1543634.qgd	250 mL SS24-006B		DEF	NA
12	ITO15-SIMSTD020	TO15_SFS.qgm	R1543635.qgd	50 mL SS24-006A		DEF	NA
12	ITO15-SIMSTD050	TO15_SFS.qgm	R1543636.qgd	125 mL SS24-006A		DEF	NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1543637.qgd	250 mL SS24-006A		DEF	NA
1	BA15032201	TO15_SFS.qgm	R1543638.qgd	250 mL			NA
1	BA15032202	TO15_SFS.qgm	R1543639.qgd	250 mL			NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R1543640.qgd	250 mL SS24-008H	LL ICV	DEV-ICV-AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1543641.qgd	125 mL SS24-008H	SIM ICV	DEV-ICV-AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AIRLAB22 Internal Standard/Surrogate IDs: SS23-026 / SS23-018

Date: 03/28/2024 Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB Sequence File Name: 220916.S

AS Position	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Leak Check
1	TA22032701	TO15_SFS.qgm	R223415.qgd	250 mL	TUNE		NA
2	CA22032701	TO15_SFS.qgm	R223416.qgd	250 mL	LL CC		NA
3	TO15-LL 10-STD10.0	TO15_SFS.qgm	R223417.qgd	SS24-008G 250 mL	LL LCS	4-MCPY + BDCMP CHLOROETHANE FAIL HIGH, REPORT HITS BY SIM	NA
3	TO15-SIM 10-STD5.0	TO15_SFS.qgm	R223418.qgd	SS24-008G 125 mL	SIM LCS		NA
1	BA22032701	TO15_SFS.qgm	R223419.qgd	250 mL	LL BLANK		NA
1	BA22032702	TO15_SFS.qgm	R223420.qgd	250 mL	SIM BLANK		NA
2	L2413828-05,3,250,250	TO15_SFS.qgm	R223421.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
3	L2413824-03D,3,245.0,250	TO15_SFS.qgm	R223422.qgd	WG1902103,ICAL20613	11111	NY+NAPH-7SIM	Y
4	L2414305-04,3,250,250	TO15_SFS.qgm	R223423.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
5	L2414212-08,3,250,250	TO15_SFS.qgm	R223424.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
6	L2414212-01,3,250,250	TO15_SFS.qgm	R223425.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
7	L2414212-02,3,250,250	TO15_SFS.qgm	R223426.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
8	L2414212-03,3,250,250	TO15_SFS.qgm	R223427.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
9	L2414212-04,3,250,250	TO15_SFS.qgm	R223428.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
10	L2414212-05,3,250,250	TO15_SFS.qgm	R223429.qgd	WG1902103,ICAL20613	ETOH, ACETONE, IPA AND EA OVERCAL	NY+NAPH-7SIM	Y
10	L2414212-05DUP,3,250,250	TO15_SFS.qgm	R223430.qgd	WG1902103,ICAL20613	LL/SIM DUP	NY+NAPH-7SIM	Y
11	L2414212-06,3,250,250	TO15_SFS.qgm	R223431.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
12	L2414212-07,3,250,250	TO15_SFS.qgm	R223432.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
13	L2413828-01,3,250,250	TO15_SFS.qgm	R223433.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
14	L2413828-02,3,250,250	TO15_SFS.qgm	R223434.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
15	L2413828-03,3,250,250	TO15_SFS.qgm	R223435.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
16	L2413828-04,3,250,250	TO15_SFS.qgm	R223436.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y

Alpha Analytical Air Lab Instrument Run Log

1	L2413824-01,3,250,250	TO15_SFS.qgm	R223437.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
2	L2413824-04,3,250,250	TO15_SFS.qgm	R223438.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
3	L2413824-02,3,250,250	TO15_SFS.qgm	R223439.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
4	L2414305-02,3,250,250	TO15_SFS.qgm	R223440.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
5	L2414305-03,3,250,250	TO15_SFS.qgm	R223441.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
10	L2414212-05D,3,1.91,250	TO15_SFS.qgm	R223442.qgd	WG1902103,ICAL20613		ETOH, ACETONE, IPA AND EA	
10	L2414212-05DUP,3,1.91,250	TO15_SFS.qgm	R223443.qgd	WG1902103,ICAL20613		ETOH, ACETONE, IPA AND EA	
1	L2413824-01D,3,5.92,250	TO15_SFS.qgm	R223444.qgd	WG1902103,ICAL20613		ETOH	
3	L2413824-02D,3,6.17,250	TO15_SFS.qgm	R223445.qgd	WG1902103,ICAL20613		ETOH	
5	L2414305-03D,3,25,250	TO15_SFS.qgm	R223446.qgd	WG1902103,ICAL20613		ETOH	

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (ml) } nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ID: Airlab15
 Date: 03/29/24
 Initials: JFI

Internal Standard/Surrogate IDs: SS20-027 / SS23-018
 Internal Standard/Surrogate Volume: 100 ml
 Sequence File Name: 240329.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/sublist	Check Pass ? Y/N
1	TA15032702	TO15_SFS.qgm	R15436787.qgd	250 mL	TUNE		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R15436789.qgd	250 mL SS24-008H	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R15436790.qgd	125 mL SS24-008H	SIM LCS		NA
1	BA15032701	TO15_SFS.qgm	R15436791.qgd	250 mL	LL BLAMK		NA
1	BA15032702	TO15_SFS.qgm	R15436792.qgd	250 mL	SIM BLMK		NA
1	L2415182-03,3,250,250	TO15_SFS.qgm	R15436793.qgd	WG1902672,ICAL20972		NY+NAPH-7SIM	NA
2	L2415182-01,3,250,250	TO15_SFS.qgm	R15436794.qgd	WG1902672,ICAL20972		NY+NAPH-7SIM	NA
3	L2415182-02,3,250,250	TO15_SFS.qgm	R15436795.qgd	WG1902672,ICAL20972		NY+NAPH-7SIM	Y
3	L2415182-02DUP,3,250,250	TO15_SFS.qgm	R15436796.qgd	WG1902670,ICAL20971		NY+NAPH-7SIM	Y
4	L2413832-06,3,250,250	TO15_SFS.qgm	R15436797.qgd	WG1902670,ICAL20971		NY+NAPH	Y
5	L2413832-07,3,250,250	TO15_SFS.qgm	R15436798.qgd	WG1902670,ICAL20971		NY+NAPH	Y
6	L2413832-08,3,250,250	TO15_SFS.qgm	R15436799.qgd	WG1902670,ICAL20971		NY+NAPH	Y
7	L2415435-01,3,250,250	TO15_SFS.qgm	R15436800.qgd	WG1902670,ICAL20971	MP XYLENE, O XYLENE, 135 TMB, 124TMB OVERCAL	NY+NAPH	Y
8	L2414305-01D,3,140,250	TO15_SFS.qgm	R15436801.qgd	WG1902670,ICAL20971	T	NY+NAPH	Y
9	L2414148-01,3,250,250	TO15_SFS.qgm	R15436802.qgd	WG1902670,ICAL20971		NY+NAPH	Y
10	L2414148-02,3,250,250	TO15_SFS.qgm	R15436803.qgd	WG1902670,ICAL20971		NY+NAPH	Y
11	L2414248-01,3,250,250	TO15_SFS.qgm	R15436804.qgd	WG1902670,ICAL20971		STD+NAPH	Y
12	L2414248-02,3,250,250	TO15_SFS.qgm	R15436805.qgd	WG1902670,ICAL20971		STD+NAPH	Y
13	L2414248-03,3,250,250	TO15_SFS.qgm	R15436806.qgd	WG1902670,ICAL20971		STD+NAPH	Y
14	L2414212-10,3,250,250	TO15_SFS.qgm	R15436807.qgd	WG1902670,ICAL20971		NY+NAPH	Y
15	L2414212-11,3,250,250	TO15_SFS.qgm	R15436808.qgd	WG1902670,ICAL20971		NY+NAPH	Y

10X

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Lab Duplicate Sample Summary

Form 3

Air Volatiles

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Client Sample ID	: IAQ-1	Matrix (Level)	: AIR (LOW)
Lab Sample ID	: L2414212-05	Analysis Date	: 03/28/24 22:15
Lab File ID	: R223429_EV2	DUP File ID	: r223430_Ev2
Dup Sample ID	: WG1902106-5	DUP Analysis Date	: 03/28/24 22:47

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.094	0.095	1	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.104	0.104	0	25



Laboratory Control Sample Summary

Form 3

Air Volatiles

Client : Stantec **Lab Number** : L2414212
Project Name : BELLE HARBOR **Project Number** : 195601412
Matrix (Level) : AIR (LOW)
LCS Sample ID : WG1902106-3 **Analysis Date** : 03/28/24 14:21 **File ID** : r223418_Ev2
LCSD Sample ID : **Analysis Date** : **File ID** :

Parameter	Laboratory Control Sample			Laboratory Control Duplicate			RPD	Recovery Limits	RPD Limit
	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R			
Vinyl chloride	5	4.90	98				-	70-130	25
1,1-Dichloroethene	5	5.35	107				-	70-130	25
cis-1,2-Dichloroethene	5	4.60	92				-	70-130	25
1,1,1-Trichloroethane	5	5.52	110				-	70-130	25
Carbon tetrachloride	5	5.65	113				-	70-130	25
Trichloroethene	5	4.96	99				-	70-130	25
Tetrachloroethene	5	3.84	77				-	70-130	25



**Method Blank Summary
Form 4
Air Volatiles**

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Lab Sample ID	: WG1902106-4	Lab File ID	: r223420_Ev2
Instrument ID	: AIRLAB22		
Matrix	: AIR	Analysis Date	: 03/28/24 17:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1902106-3LCS	WG1902106-3	03/28/24 14:21
AMB-1	L2414212-08	03/28/24 19:35
IA-7	L2414212-01	03/28/24 20:09
IA-203	L2414212-02	03/28/24 20:40
IA-202	L2414212-03	03/28/24 21:12
IA-201	L2414212-04	03/28/24 21:43
IAQ-1	L2414212-05	03/28/24 22:15
IAQ-1DUP	WG1902106-5	03/28/24 22:47
IA-11	L2414212-06	03/28/24 23:18
IA-9	L2414212-07	03/28/24 23:50



Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB22	Analysis Date	: 11/29/23 20:41
Tune Standard	: WG1858561-1	Tune File ID	: r221886_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	9.9
75	30.0 - 66.0% of mass 95	31.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.4)1
174	50.0 - 120.0% of mass 95	65.7
175	4.0 - 9.0% of mass 174	4.5 (6.9)1
176	93.0 - 101% of mass 174	63.5 (96.6)1
177	5.0 - 9.0% of mass 176	4.1 (6.5)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1769930-1	R221887_EV2	11/29/23 21:09
STD0.05	R1769930-2	R221888_EV2	11/29/23 21:38
STD0.1	R1769930-3	R221889_EV2	11/29/23 22:09
STD0.2	R1769930-4	R221890_EV2	11/29/23 22:39
STD0.5	R1769930-5	R221891_EV2	11/29/23 23:11
STD1.0	R1769930-6	R221892_EV2	11/29/23 23:44
STD5.0	R1769930-7	R221893_EV2	11/30/23 00:16
STD010	R1769930-8	R221894_EV2	11/30/23 00:49
STD020	R1769930-9	R221895_EV2	11/30/23 01:19
STD050	R1769930-10	R221896_EV2	11/30/23 01:51
ICV QUANT	R1769930-11	R221901_EV2	11/30/23 16:55



**Instrument Performance Check (Tune) Summary
Form 5
Air Volatiles
Bromofluorobenzene (BFB)**

Client	: Stantec	Lab Number	: L2414212
Project Name	: BELLE HARBOR	Project Number	: 195601412
Instrument ID	: AIRLAB22	Analysis Date	: 03/28/24 12:41
Tune Standard	: WG1902106-1	Tune File ID	: r223415_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.2
75	30.0 - 66.0% of mass 95	37.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.4
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	57.5
175	4.0 - 9.0% of mass 174	3.9 (6.7)1
176	93.0 - 101% of mass 174	54.5 (94.9)1
177	5.0 - 9.0% of mass 176	3.6 (6.6)2

1-Value is % of mass 174 2-Value is % of mass 176

This Check Applies to the following Samples, MS, MSD, Blanks, and Standards:

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1902106-2CCAL	WG1902106-2	R223418_EV2	03/28/24 14:21
WG1902106-3LCS	WG1902106-3	R223418_EV2	03/28/24 14:21
WG1902106-4BLANK	WG1902106-4	R223420_EV2	03/28/24 17:13
AMB-1	L2414212-08	R223424_EV2	03/28/24 19:35
IA-7	L2414212-01	R223425_EV2	03/28/24 20:09
IA-203	L2414212-02	R223426_EV2	03/28/24 20:40
IA-202	L2414212-03	R223427_EV2	03/28/24 21:12
IA-201	L2414212-04	R223428_EV2	03/28/24 21:43
IAQ-1	L2414212-05	R223429_EV2	03/28/24 22:15
WG1902106-5DUP	WG1902106-5	R223430_EV2	03/28/24 22:47
IA-11	L2414212-06	R223431_EV2	03/28/24 23:18
IA-9	L2414212-07	R223432_EV2	03/28/24 23:50



Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Sample No : WG1902106-2

Lab Number : L2414212
 Project Number : 195601412
 Analysis Date : 03/28/24 14:21:00
 Lab File ID : R223418_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1902106-2	268768	4.45	838879	5.38	106366	7.35
Upper Limit	376275	4.78	1174431	5.71	148912	7.68
Lower Limit	161261	4.12	503327	5.05	63820	7.02
Sample ID						
WG1902106-3 LCS	268768	4.45	838879	5.38	106366	7.35
WG1902106-4 BLANK	249247	4.46	764445	5.38	99737	7.35
AMB-1	244584	4.46	745722	5.39	102495	7.35
IA-7	241246	4.46	736854	5.38	100857	7.35
IA-203	238041	4.46	732952	5.38	100416	7.35
IA-202	238659	4.46	728054	5.38	100294	7.35
IA-201	236652	4.46	724334	5.38	98979	7.35
IAQ-1	251778	4.46	826234	5.38	112403	7.35
IAQ-1 DUP	264685	4.46	878068	5.39	117058	7.35
IA-11	258828	4.46	791617	5.39	106842	7.35
IA-9	251677	4.46	766644	5.39	105194	7.35

Area Upper Limit = +40% of internal standard area
 Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT
 RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits





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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0059	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.01	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0067	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0097	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0086	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0077	ppbV	70-130	25		25	25			
1,2,3-Trichloropropane	96-18-4	0.02	0.0073	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.0091	ppbV	70-130	25		25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.0124	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0062	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0083	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0096	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0106	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0077	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0075	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.0344	ppbV	70-130	25		25	25			
1-Bromo-2-Chloroethane	107-04-0	0.02	0.0102	ppbV	70-130	25		25	25			
1-Bromo-3-Fluorobenzene	1073-06-9	0.02	0.0065	ppbV	70-130	25		25	25			
1-Bromo-4-Ethylbenzene	1585-07-5	0.05	0.004	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.037	ppbV	70-130	25		25	25			
2-Bromopyridine	109-04-6	0.5	0.0161	ppbV	30-150	25		25	25			
2-Hexanone	591-78-6	0.2	0.0354	ppbV	70-130	25		25	25			
3,4-Dichlorobenzotrifluoride	328-84-7	0.02	0.0024	ppbV	70-130	25		25	25			
3-Amino-4-Chlorobenzotrifluoride	121-50-6	1.25	0.0178	ppbV	30-150	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0327	ppbV	70-130	25		25	25			
3-Nitro-4-Chlorobenzotrifluoride	121-17-5	2.5	0.129	ppbV	30-150	25		25	25			
4-Bromofluorobenzene	460-00-4	0.2	0.0094	ppbV	70-130	25		25	25			
4-Chlorobenzotrifluoride	98-56-6	0.02	0.006	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0099	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.0298	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.1	0.0332	ppbV	70-130	25		25	25			
Bromobenzene	108-86-1	0.2	0.0262	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0074	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0111	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0094	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0316	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.011	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0258	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0395	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0071	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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 File: PM15856-1
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Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
 Container/Sample Preservation: 1 - Canister - 2.7 Liter

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloromethane	74-87-3	0.2	0.0756	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0102	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.009	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.009	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.0118	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.0115	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0313	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dibromomethane	74-95-3	0.2	0.0251	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0499	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAl06	5	1.35	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.323	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0085	ppbV	70-130	25		25	25			
Fluorobenzene	462-06-6	0.05	0.009	ppbV	70-130	25		25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0064	ppbV	70-130	25		25	25			
Methylcyclohexane	108-87-2	0.02	0.0051	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.11	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0261	ppbV	70-130	25		25	25			
m/p-Dibromobenzene	108-36-1/106-37-6	0.5	0.0137	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.021	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.018	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0087	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0313	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0471	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.167	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0079	ppbV	70-130	25		25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.134	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0074	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.142	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.1	0.0166	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.0115	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.006	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.0146	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0092	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.286	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0431	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.011	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.249	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0088	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.162	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0319	ppbV	70-130	25		25	25			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
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Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-01
 Client ID : IA-7
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223425_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 15:51
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:09
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.088	0.020	--	0.554	0.126	--	
79-01-6	Trichloroethene	0.122	0.020	--	0.656	0.107	--	
127-18-4	Tetrachloroethene	0.131	0.020	--	0.888	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-02
 Client ID : IA-203
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223426_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:00
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 20:40
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.095	0.020	--	0.598	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.227	0.020	--	1.54	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-03
 Client ID : IA-202
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223427_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:01
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:12
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.097	0.020	--	0.610	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.295	0.020	--	2.00	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-04
 Client ID : IA-201
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223428_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:02
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 21:43
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.104	0.020	--	0.654	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.303	0.020	--	2.05	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-05
 Client ID : IAQ-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223429_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:15
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.094	0.020	--	0.591	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.104	0.020	--	0.705	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-06
 Client ID : IA-11
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223431_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:05
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:18
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.089	0.020	--	0.560	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.069	0.020	--	0.468	0.136	--	



**Results Summary
Form 1
Volatile Organics in Air by SIM**

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-07
 Client ID : IA-9
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223432_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:30
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 23:50
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.090	0.020	--	0.566	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.071	0.020	--	0.481	0.136	--	



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : L2414212-08
 Client ID : AMB-1
 Sample Location : FAR ROCKAWAY, NY
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223424_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:35
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 19:35
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.087	0.020	--	0.547	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.406	0.020	--	2.75	0.136	--	



Results Summary

Form 1

Volatile Organics in Air by SIM

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Lab ID : WG1902106-4	Date Collected : NA
Client ID : WG1902106-4BLANK	Date Received : NA
Sample Location :	Date Analyzed : 03/28/24 17:13
Sample Matrix : AIR	Dilution Factor : 1
Analytical Method : 48,TO-15-SIM	Analyst : JMB
Lab File ID : R223420_EV2	Instrument ID : AIRLAB22
Sample Amount : 250 ml	GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	ND	0.020	--	ND	0.126	--	U
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U



Results Summary
Form 1
Volatile Organics in Air by SIM

Client : Stantec
 Project Name : BELLE HARBOR
 Lab ID : WG1902106-5
 Client ID : IAQ-1DUP
 Sample Location :
 Sample Matrix : AIR
 Analytical Method : 48,TO-15-SIM
 Lab File ID : R223430_EV2
 Sample Amount : 250 ml

Lab Number : L2414212
 Project Number : 195601412
 Date Collected : 03/12/24 18:06
 Date Received : 03/14/24
 Date Analyzed : 03/28/24 22:47
 Dilution Factor : 1
 Analyst : JMB
 Instrument ID : AIRLAB22
 GC Column : RTX-1

CAS NO.	Parameter	ppbV			ug/m3			Qualifier
		Results	RL	MDL	Results	RL	MDL	
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.095	0.020	--	0.598	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.104	0.020	--	0.705	0.136	--	



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223424_Ev2.D
 Acq On : 28 Mar 2024 7:35 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-08,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:54 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	244584	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		91.00%	
33) 1,4-difluorobenzene	5.390	114	745722	10.000	ppbV	0.02
Standard Area =	838879		Recovery =		88.90%	
51) chlorobenzene-D5	7.347	54	102495	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		96.36%	

System Monitoring Compounds

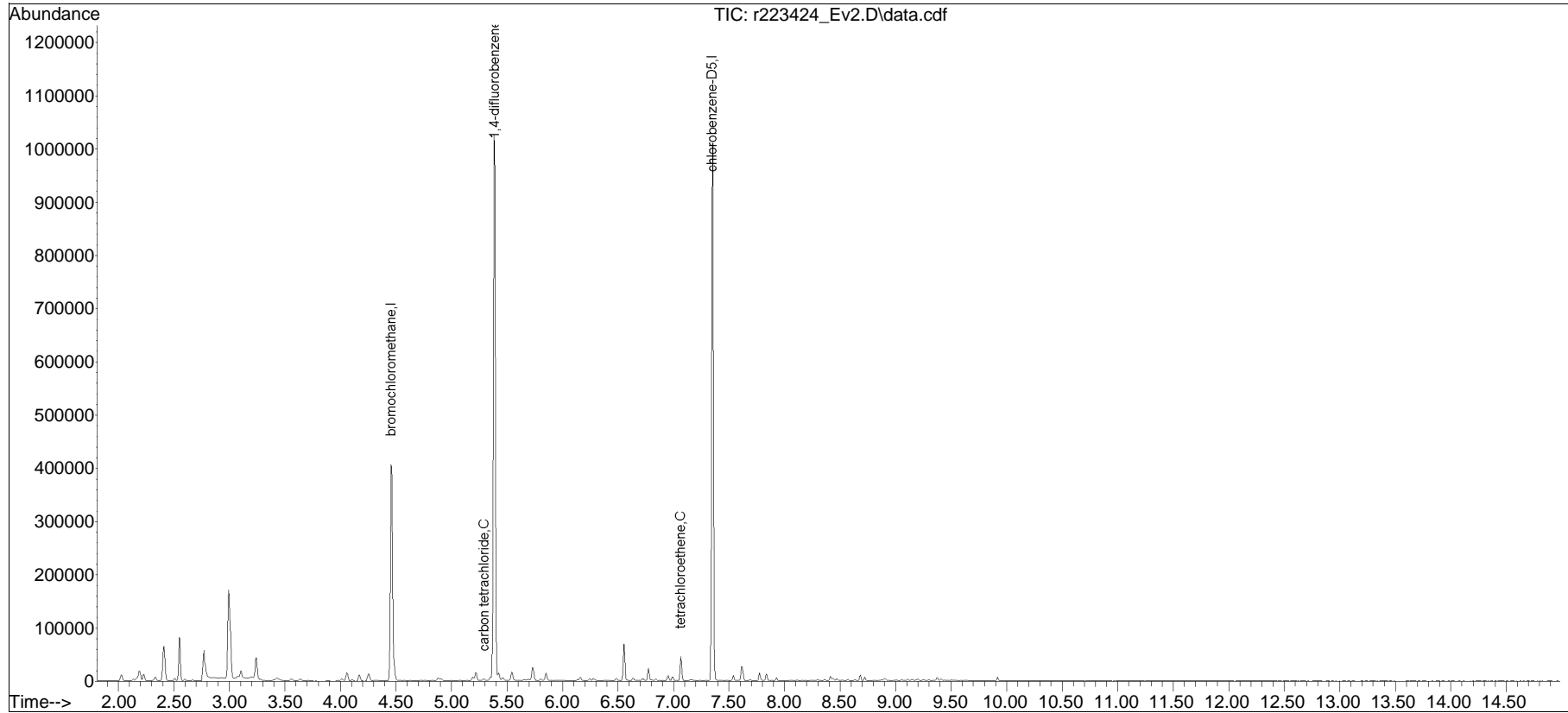
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	3.350		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.297	117	1840	0.087	ppbV	98
44) trichloroethene	0.000		0		N.D.	
57) tetrachloroethene	7.067	166	15179	0.406	ppbV #	93

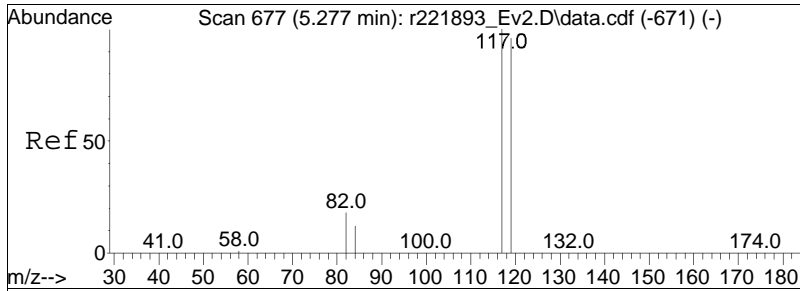
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223424_Ev2.D
Acq On : 28 Mar 2024 7:35 PM
Operator : AIRLAB22:JMB
Sample : L2414212-08,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

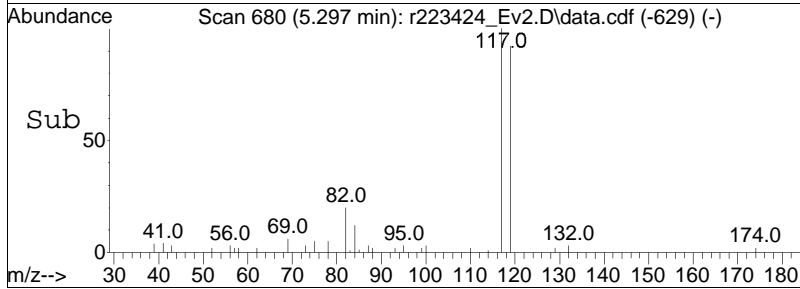
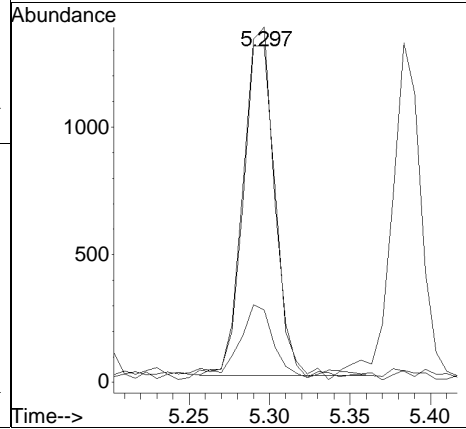
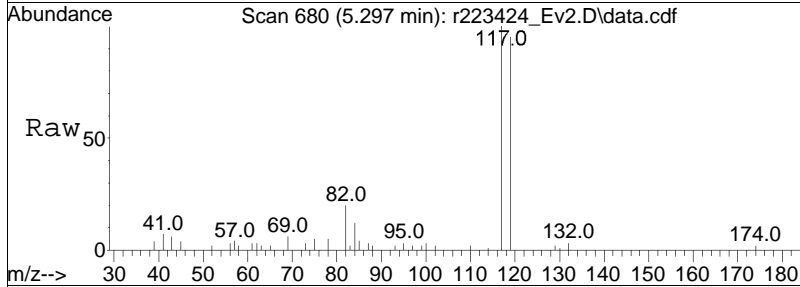
Quant Time: Mar 29 14:50:54 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

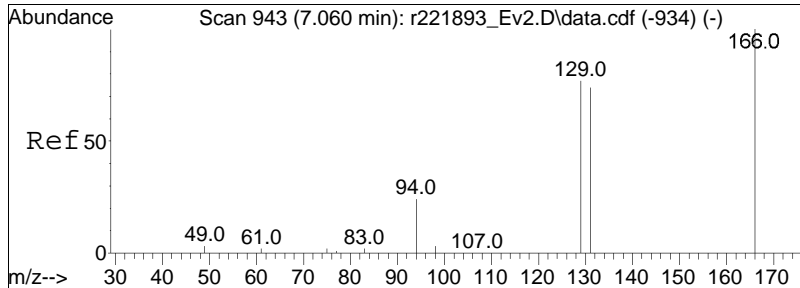




#38
 carbon tetrachloride
 Concen: 0.09 ppbV
 RT: 5.297 min Scan# 680
 Delta R.T. 0.020 min
 Lab File: r223424_Ev2.D
 Acq: 28 Mar 2024 7:35 PM

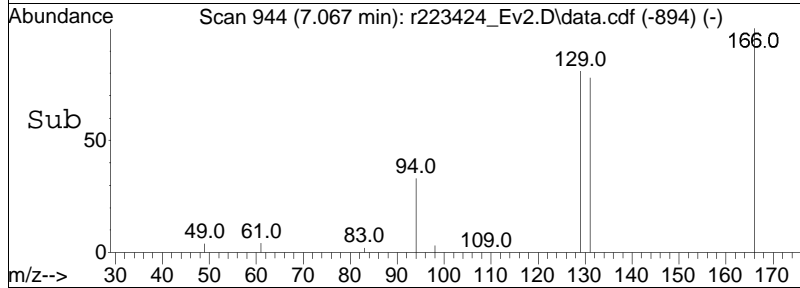
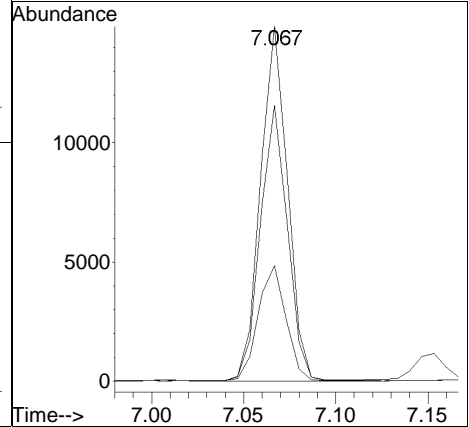
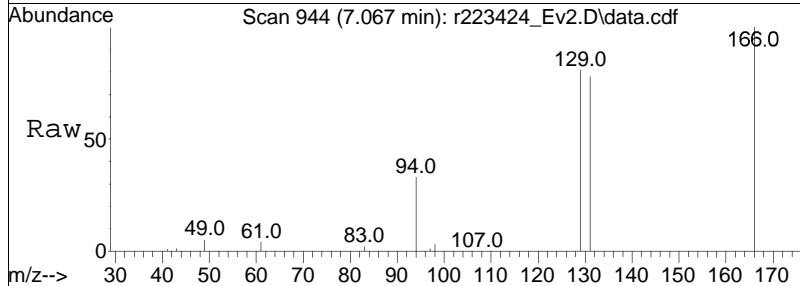
Tgt Ion	Resp	Lower	Upper
117	100		
119	94.7	76.9	115.3
82	20.3	14.2	21.2





#57
 tetrachloroethene
 Concen: 0.41 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223424_Ev2.D
 Acq: 28 Mar 2024 7:35 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.7	59.4	89.2
94	32.6	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223424_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:7: 5 Instrument :
Sample : L2414212-08,3,250,250 Quant Date : 3/29/2024 2:50 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223425_Ev2.D
 Acq On : 28 Mar 2024 8:09 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-01,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:50:58 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	241246	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		89.76%	
33) 1,4-difluorobenzene	5.383	114	736854	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		87.84%	
51) chlorobenzene-D5	7.347	54	100857	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		94.82%	

System Monitoring Compounds

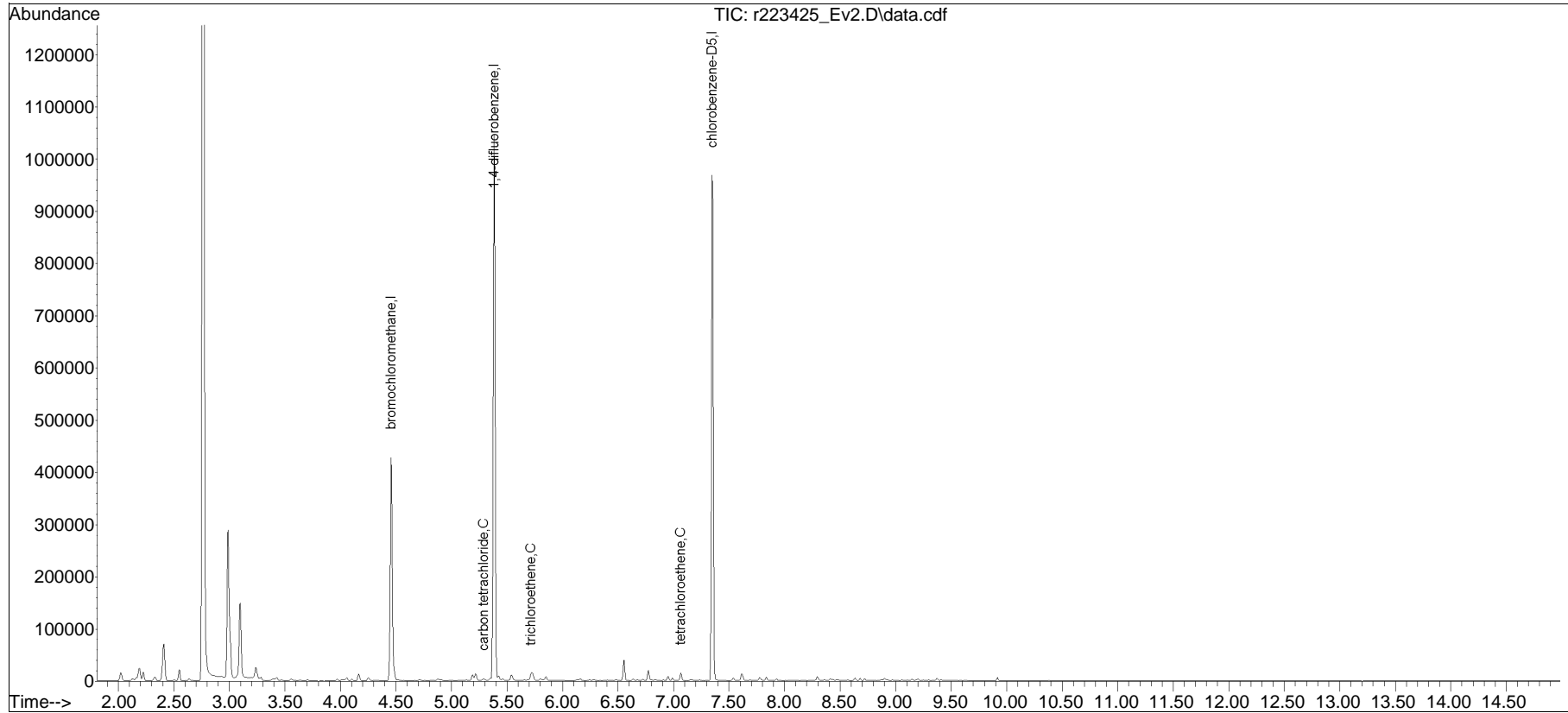
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	3.345		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	5.003		0		N.D.	
38) carbon tetrachloride	5.290	117	1844	0.088	ppbV #	97
44) trichloroethene	5.717	130	3082M4	0.122	ppbV	
57) tetrachloroethene	7.067	166	4835M4	0.131	ppbV	

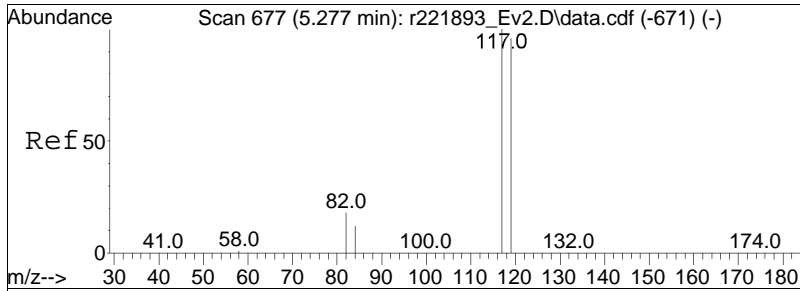
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223425_Ev2.D
Acq On : 28 Mar 2024 8:09 PM
Operator : AIRLAB22:JMB
Sample : L2414212-01,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

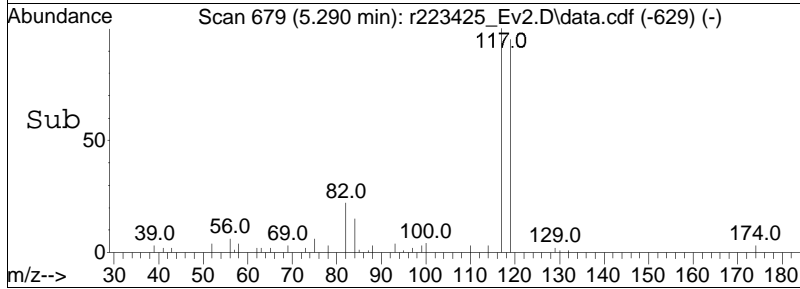
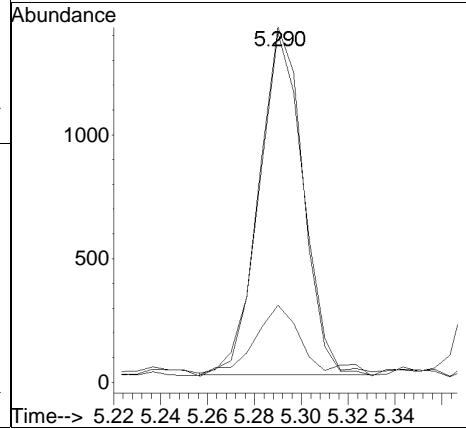
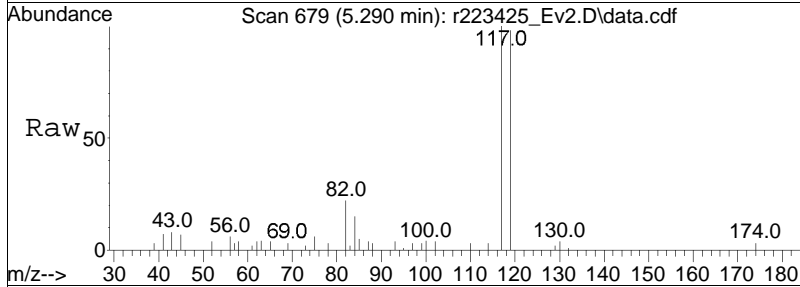
Quant Time: Mar 29 14:50:58 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

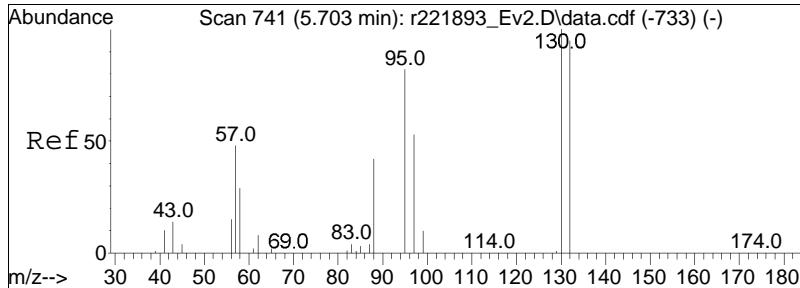




#38
 carbon tetrachloride
 Concen: 0.09 ppbV
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223425_Ev2.D
 Acq: 28 Mar 2024 8:09 PM

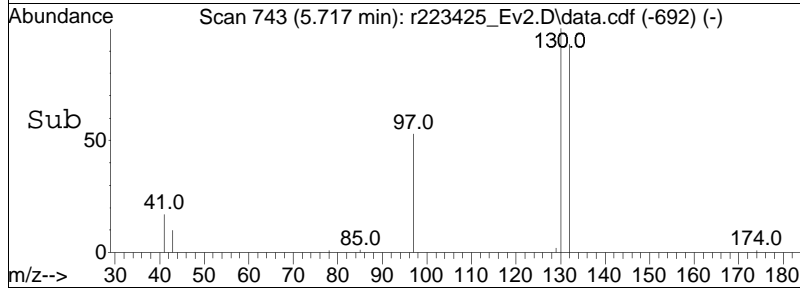
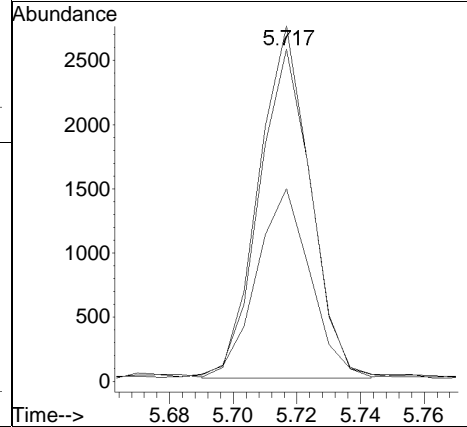
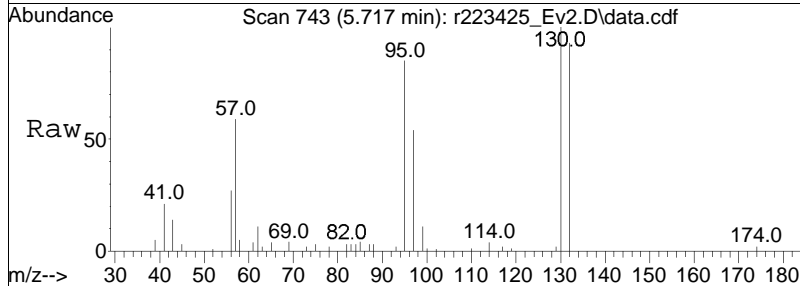
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1844		
119	98.5	76.9	115.3	
82	21.7	14.2	21.2#	

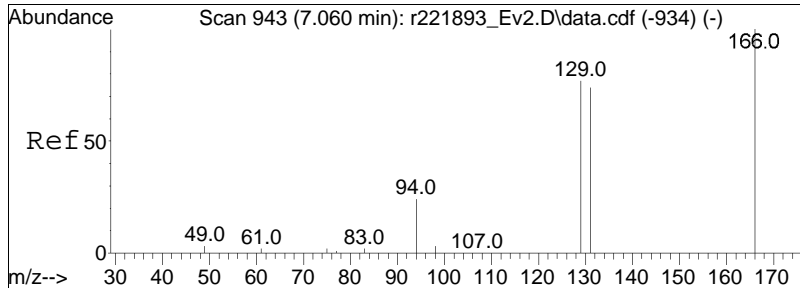




#44
 trichloroethene
 Concen: 0.12 ppbV m
 RT: 5.717 min Scan# 743
 Delta R.T. 0.013 min
 Lab File: r223425_Ev2.D
 Acq: 28 Mar 2024 8:09 PM

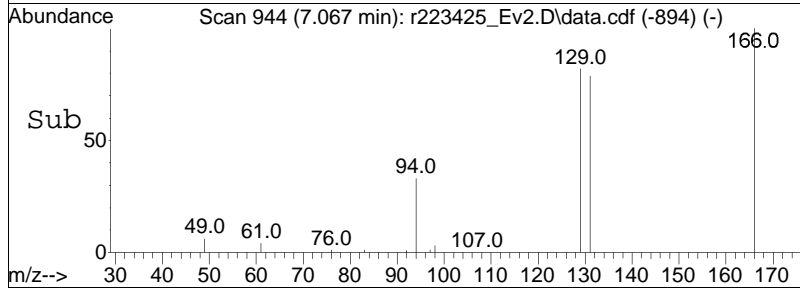
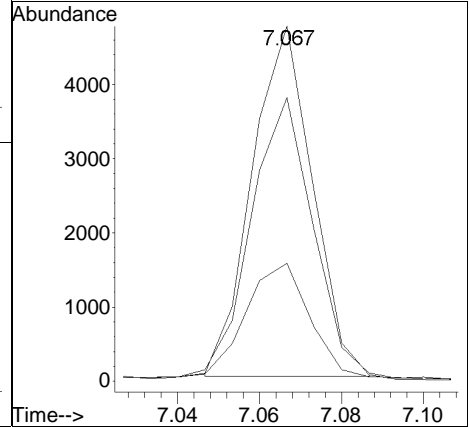
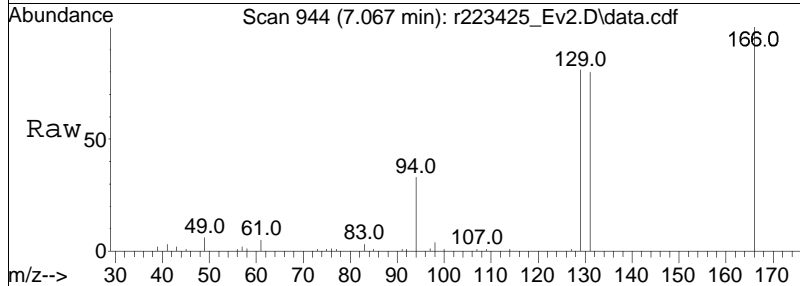
Tgt Ion	Ratio	Lower	Upper
130	100		
132	93.5	76.0	114.0
97	54.3	42.2	63.4





#57
 tetrachloroethene
 Concen: 0.13 ppbV m
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223425_Ev2.D
 Acq: 28 Mar 2024 8:09 PM

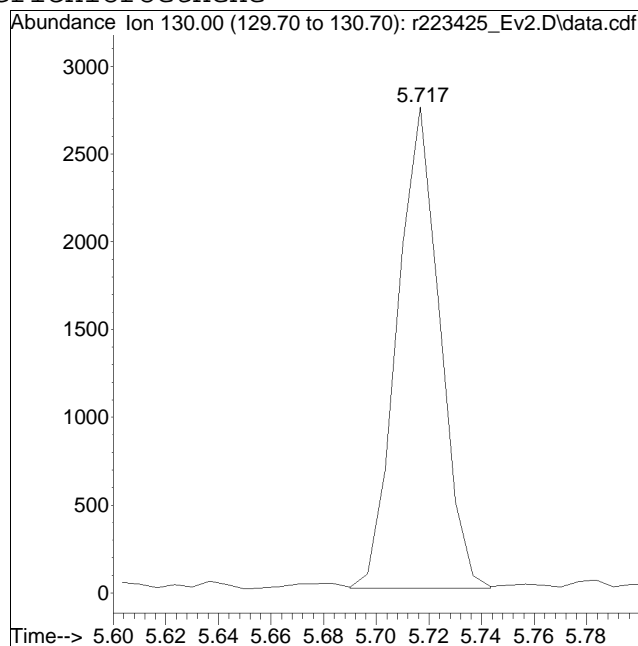
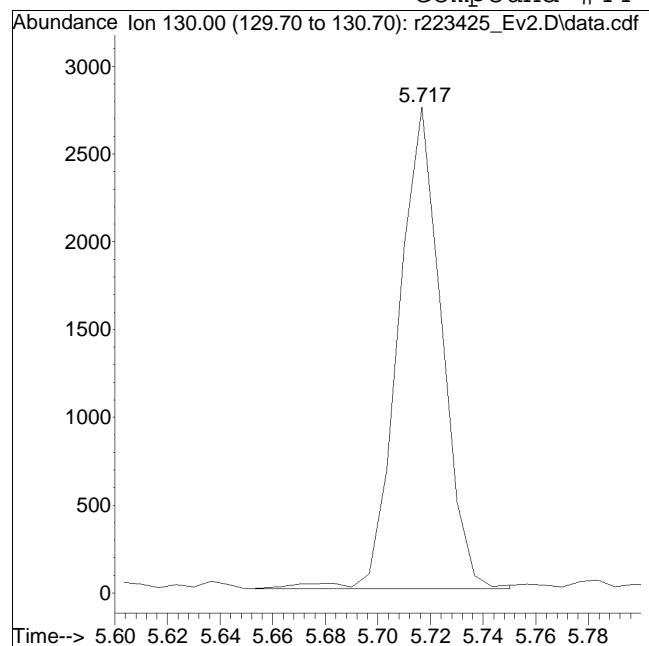
Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.9	59.4	89.2
94	33.2	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223425_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 9 Instrument :
Sample : L2414212-01,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #44: trichloroethene



Original Peak Response = 3153

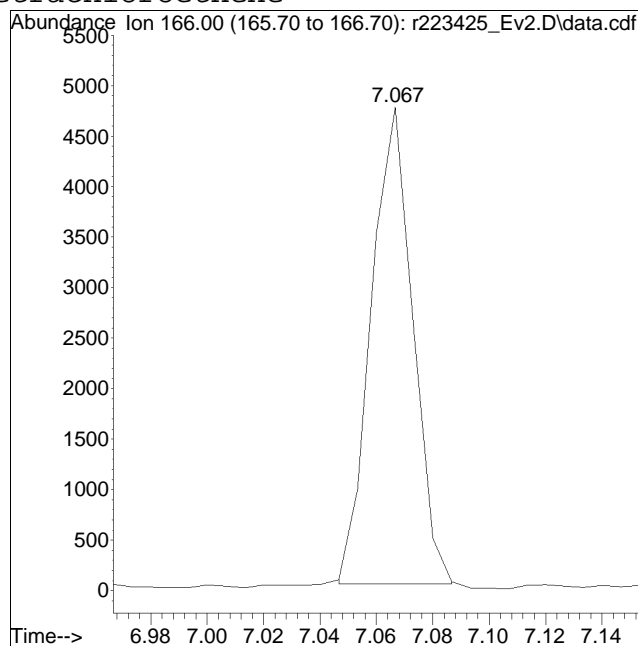
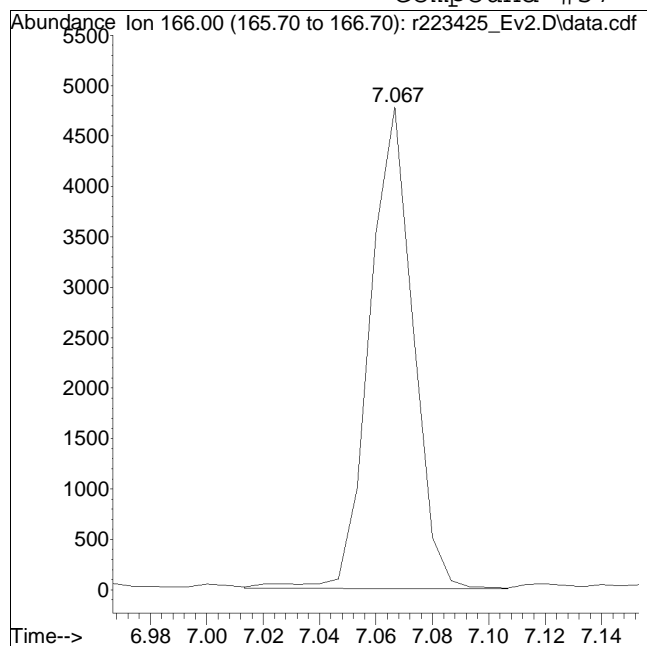
Manual Peak Response = 3082 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223425_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 9 Instrument :
Sample : L2414212-01,3,250,250 Quant Date : 3/29/2024 2:50 pm

Compound #57: tetrachloroethene



Original Peak Response = 5094

Manual Peak Response = 4835 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223426_Ev2.D
 Acq On : 28 Mar 2024 8:40 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-02,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:03 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	238041	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		88.57%	
33) 1,4-difluorobenzene	5.383	114	732952	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		87.37%	
51) chlorobenzene-D5	7.347	54	100416	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		94.41%	

System Monitoring Compounds

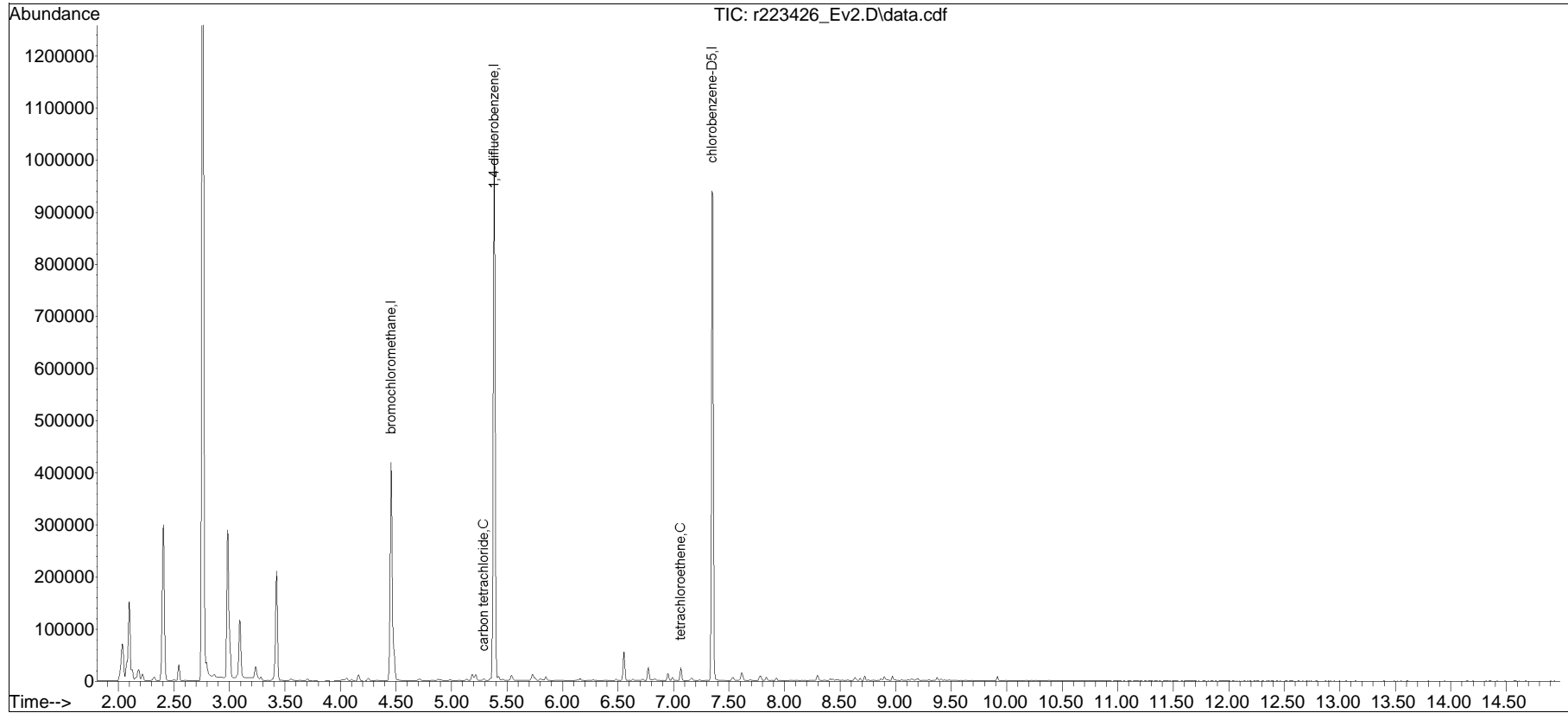
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	4.350		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.290	117	1979	0.095	ppbV	96
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	8320	0.227	ppbV #	91

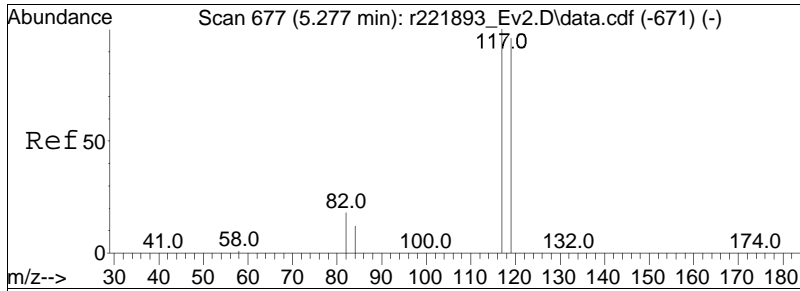
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223426_Ev2.D
Acq On : 28 Mar 2024 8:40 PM
Operator : AIRLAB22:JMB
Sample : L2414212-02,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

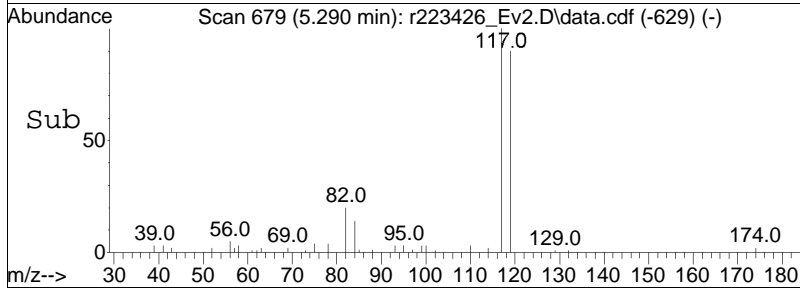
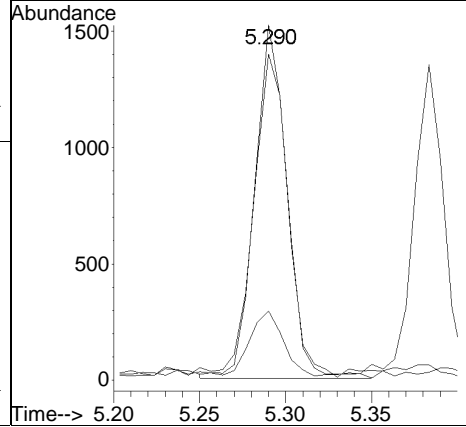
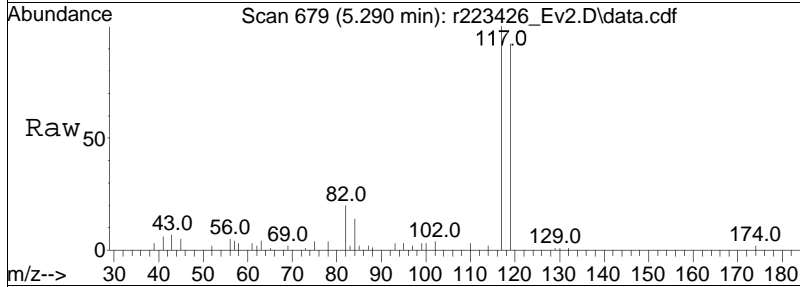
Quant Time: Mar 29 14:51:03 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

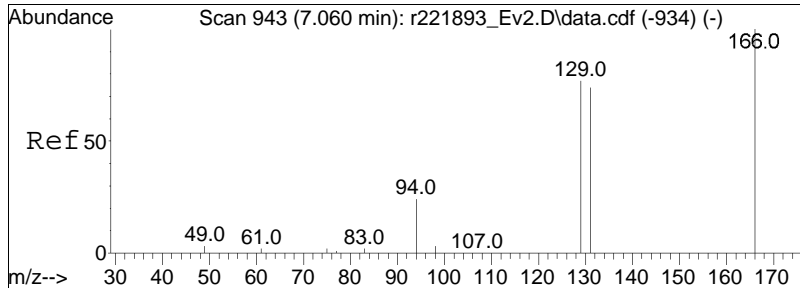




#38
 carbon tetrachloride
 Concen: 0.09 ppbV
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223426_Ev2.D
 Acq: 28 Mar 2024 8:40 PM

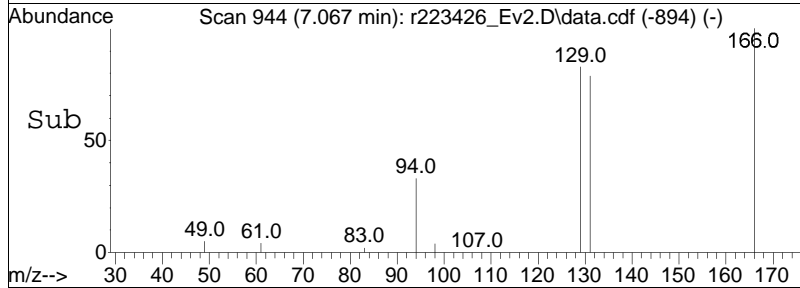
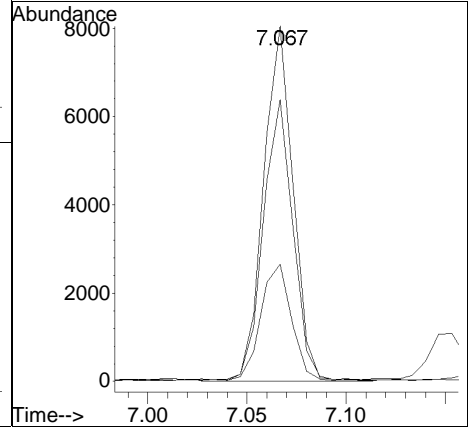
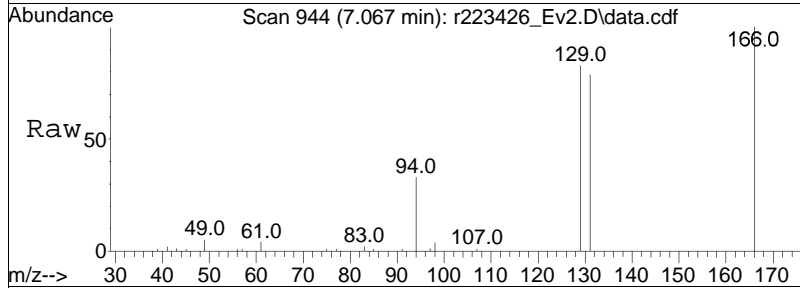
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1979		
119	91.8		76.9	115.3
82	19.5		14.2	21.2





#57
 tetrachloroethene
 Concen: 0.23 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223426_Ev2.D
 Acq: 28 Mar 2024 8:40 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.3	59.4	89.2
94	33.0	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223426_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:8: 0 Instrument :
Sample : L2414212-02,3,250,250 Quant Date : 3/29/2024 2:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223427_Ev2.D
 Acq On : 28 Mar 2024 9:12 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-03,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:08 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	238659	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		88.80%	
33) 1,4-difluorobenzene	5.383	114	728054	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		86.79%	
51) chlorobenzene-D5	7.347	54	100294	10.000	ppbV #	0.00
Standard Area =	106366		Recovery =		94.29%	

System Monitoring Compounds

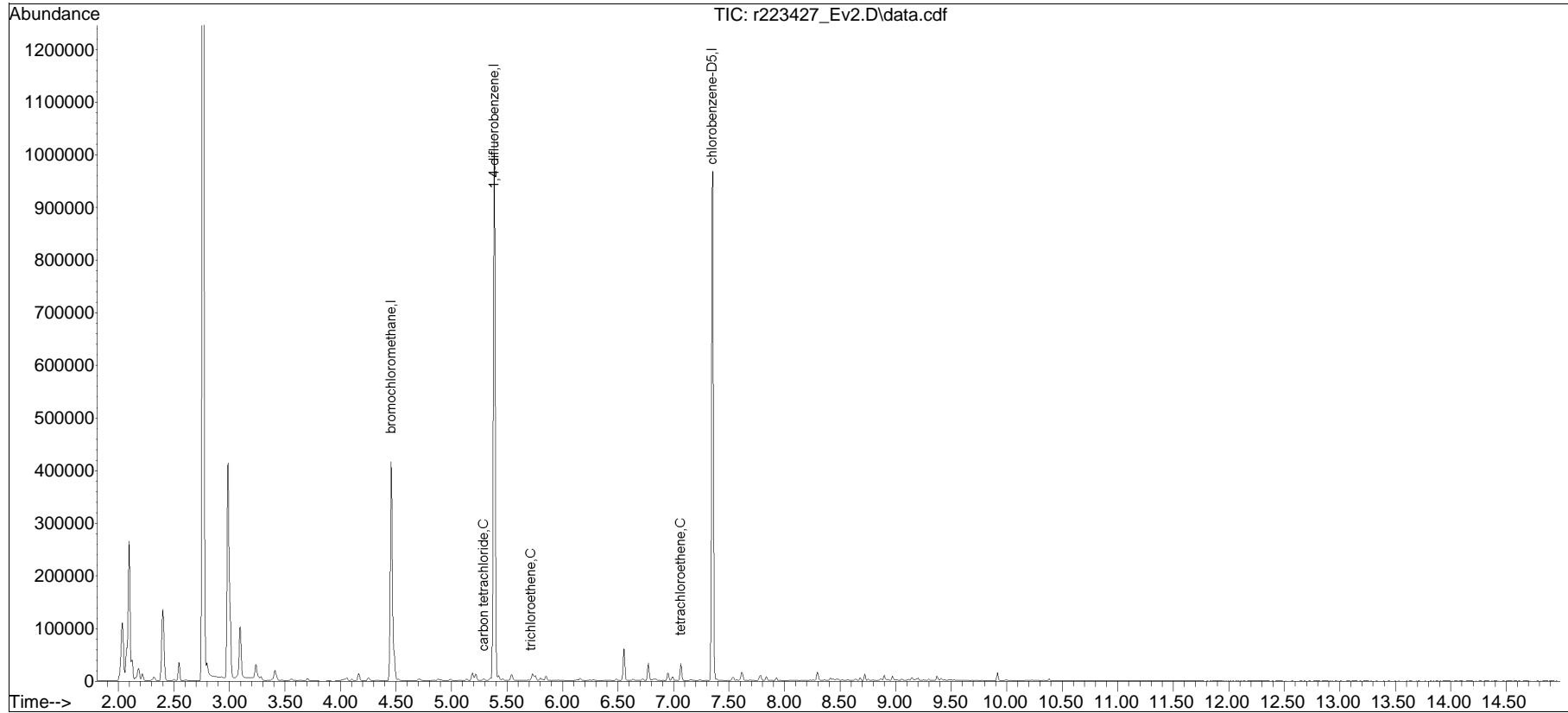
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.290	117	2010M4	0.097	ppbV	
44) trichloroethene	5.717	130	294M4	0.012	ppbV	
57) tetrachloroethene	7.067	166	10798	0.295	ppbV #	92

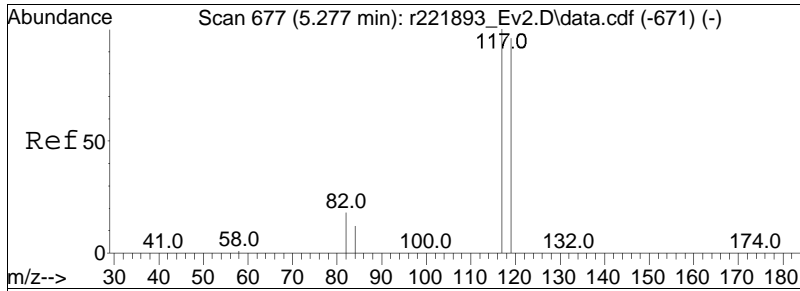
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

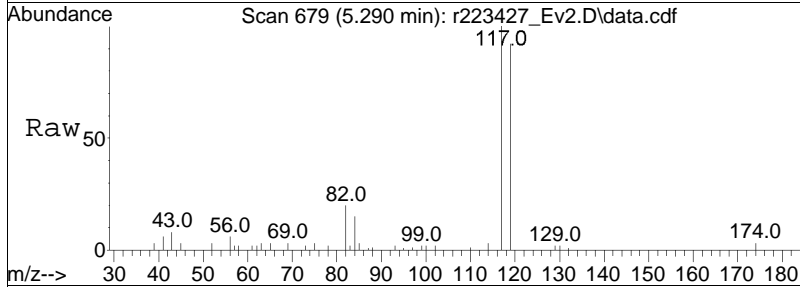
Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223427_Ev2.D
Acq On : 28 Mar 2024 9:12 PM
Operator : AIRLAB22:JMB
Sample : L2414212-03,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:08 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

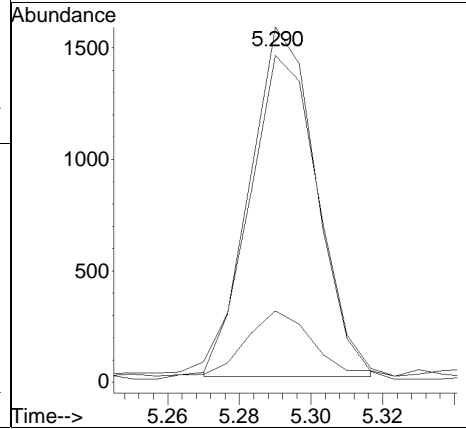
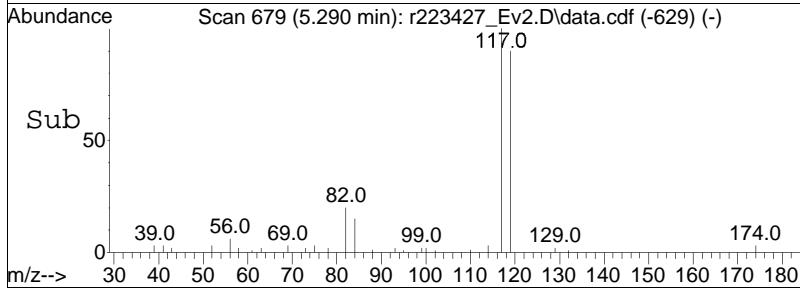


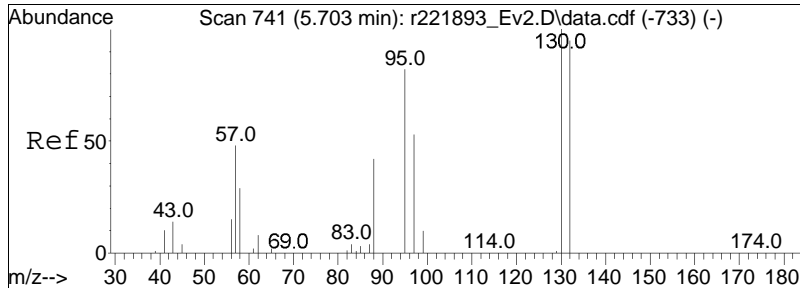


#38
 carbon tetrachloride
 Concen: 0.10 ppbV m
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223427_Ev2.D
 Acq: 28 Mar 2024 9:12 PM



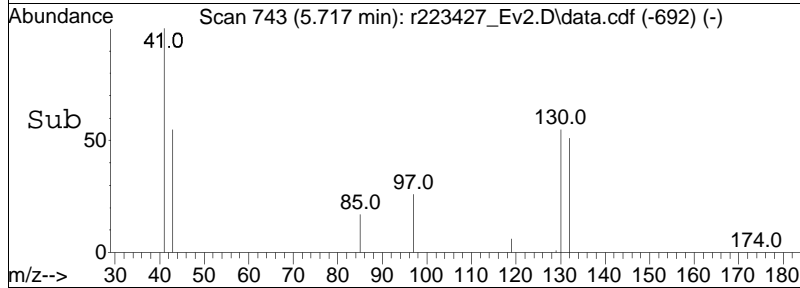
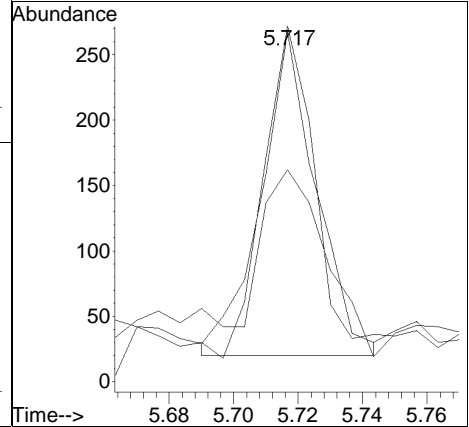
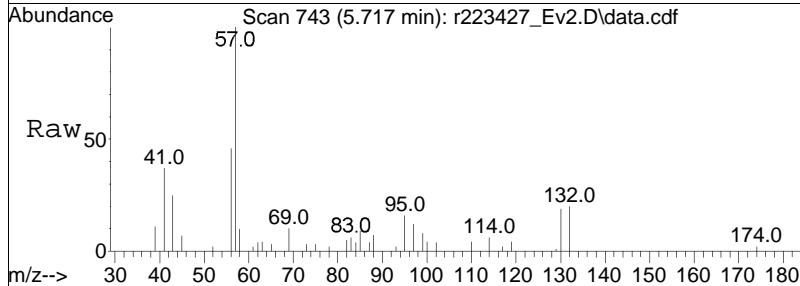
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2010		
119	92.0		76.9	115.3
82	20.1		14.2	21.2

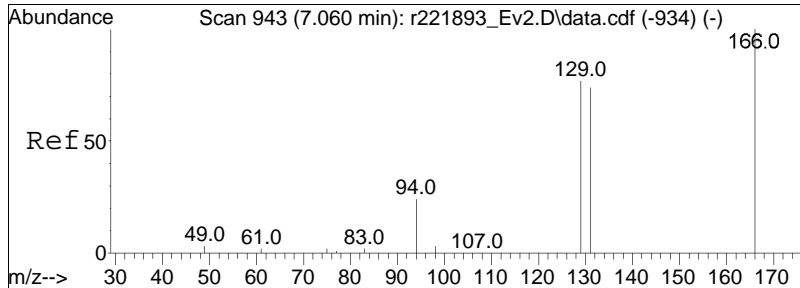




#44
 trichloroethene
 Concen: 0.01 ppbV m
 RT: 5.717 min Scan# 743
 Delta R.T. 0.013 min
 Lab File: r223427_Ev2.D
 Acq: 28 Mar 2024 9:12 PM

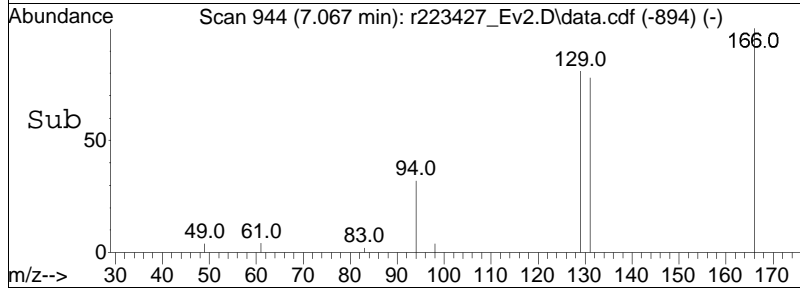
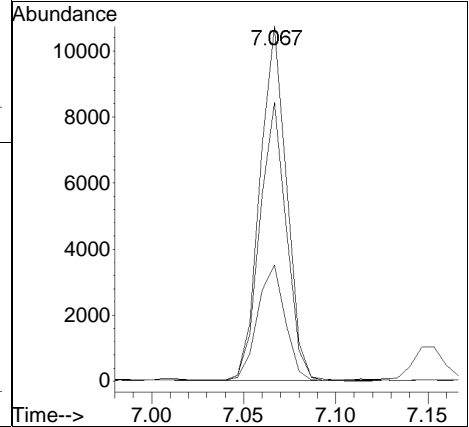
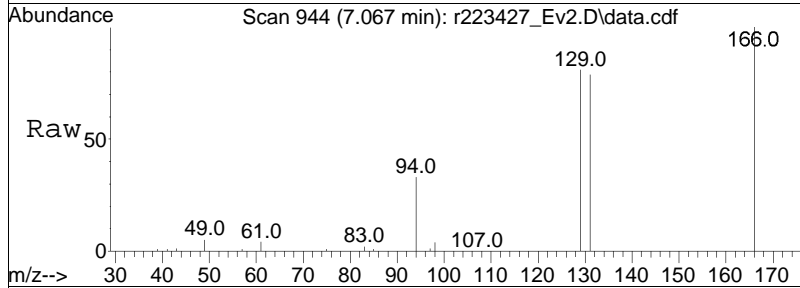
Tgt Ion	Ratio	Lower	Upper
130	100		
132	101.5	76.0	114.0
97	60.4	42.2	63.4





#57
 tetrachloroethene
 Concen: 0.29 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223427_Ev2.D
 Acq: 28 Mar 2024 9:12 PM

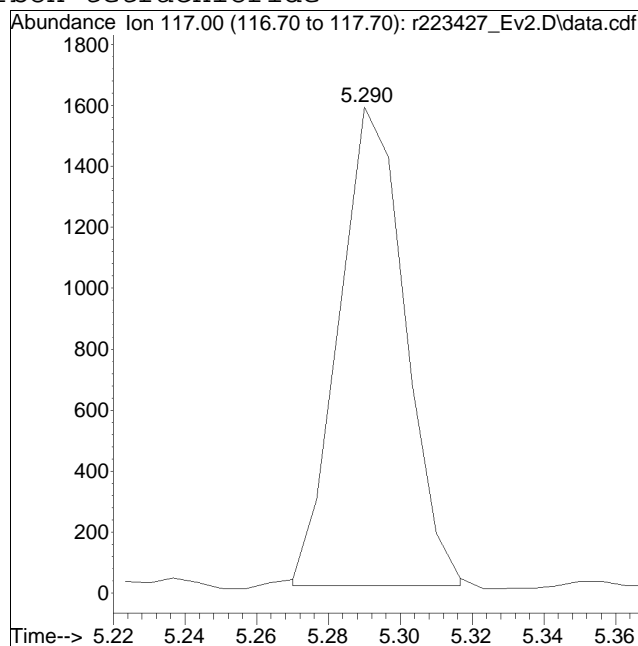
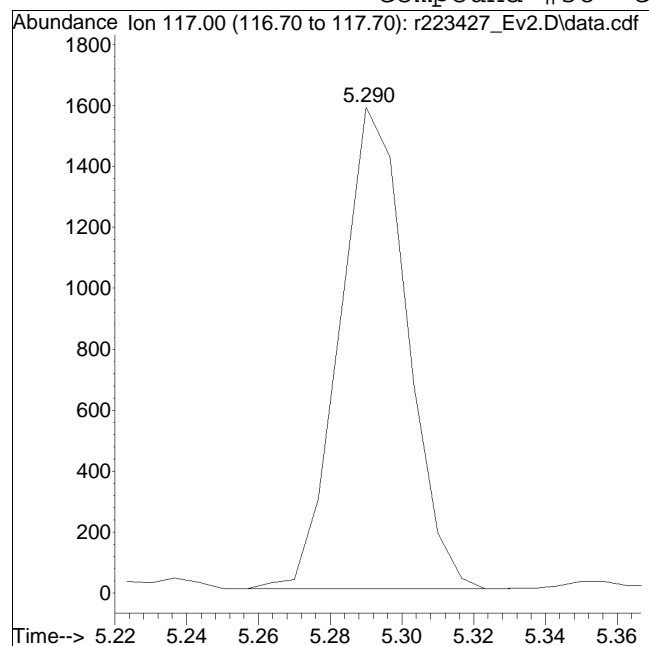
Tgt Ion	Ratio	Lower	Upper
166	100		
131	78.5	59.4	89.2
94	32.7	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223427_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 2 Instrument :
Sample : L2414212-03,3,250,250 Quant Date : 3/29/2024 2:51 pm

Compound #38: carbon tetrachloride



Original Peak Response = 2062

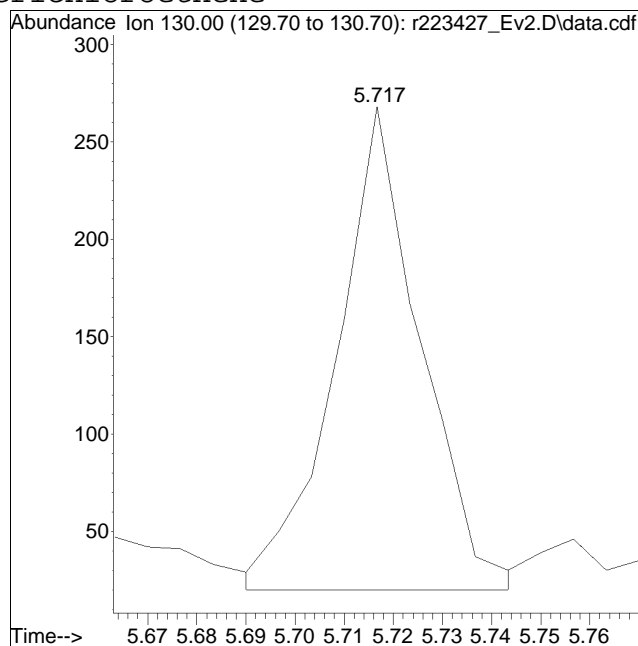
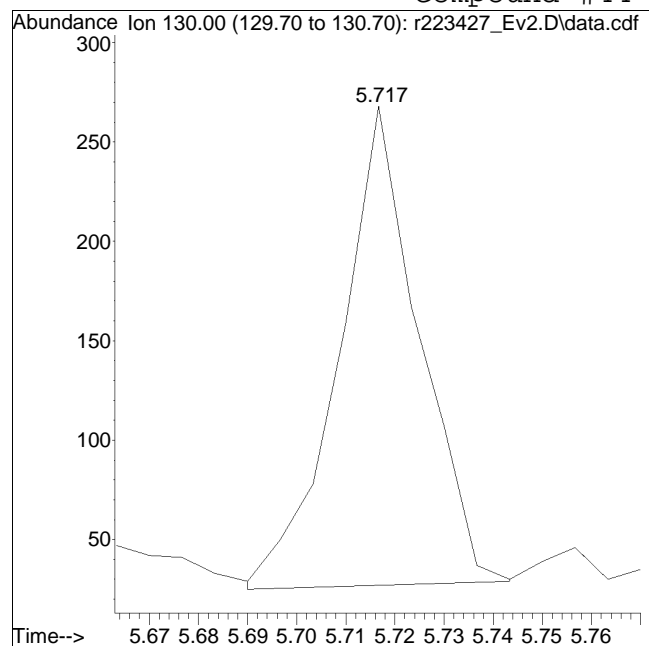
Manual Peak Response = 2010 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223427_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 2 Instrument :
Sample : L2414212-03,3,250,250 Quant Date : 3/29/2024 2:51 pm

Compound #44: trichloroethene



Original Peak Response = 272

Manual Peak Response = 294 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223428_Ev2.D
 Acq On : 28 Mar 2024 9:43 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-04,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:12 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	236652	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		88.05%	
33) 1,4-difluorobenzene	5.383	114	724334	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		86.35%	
51) chlorobenzene-D5	7.347	54	98979	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		93.06%	

System Monitoring Compounds

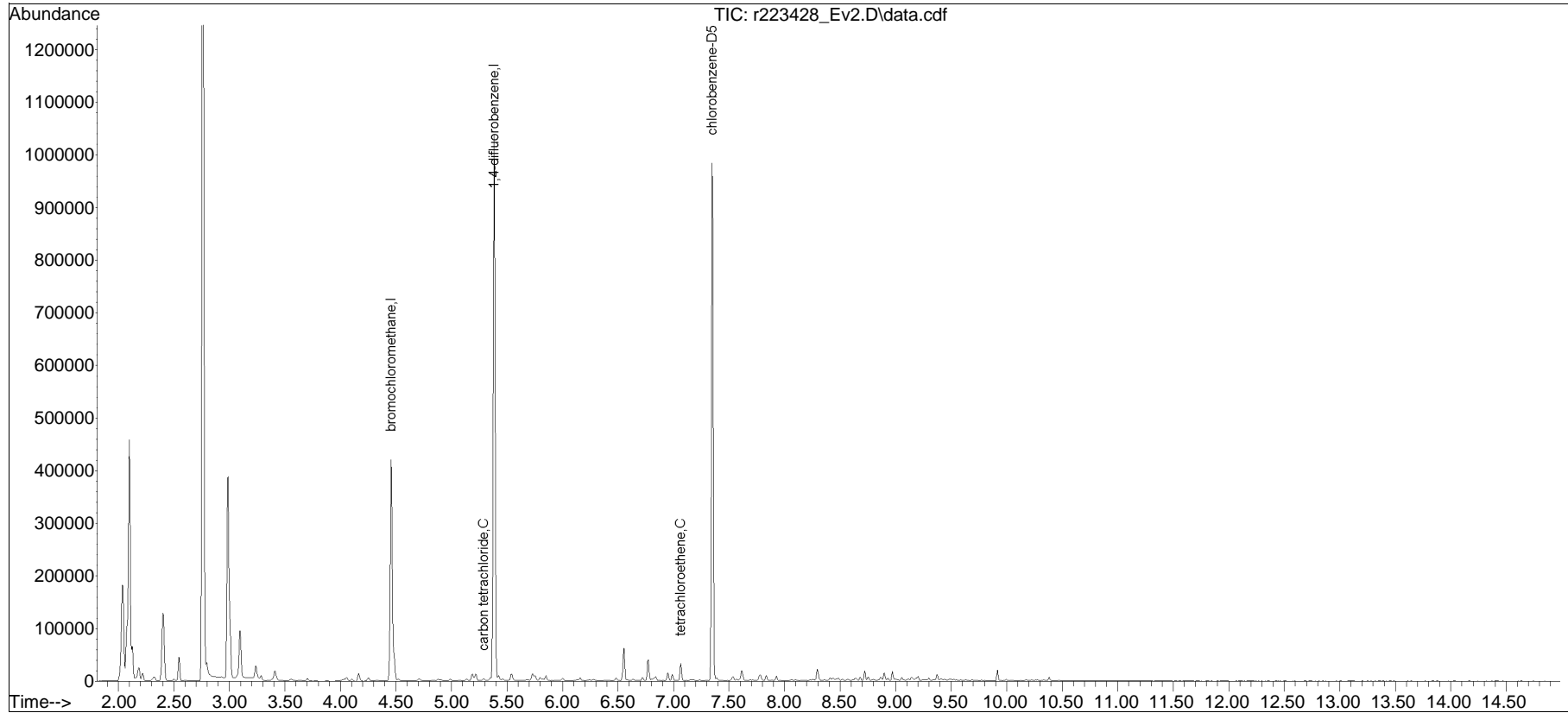
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	4.370		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.290	117	2145	0.104	ppbV #	97
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	10959	0.303	ppbV #	92

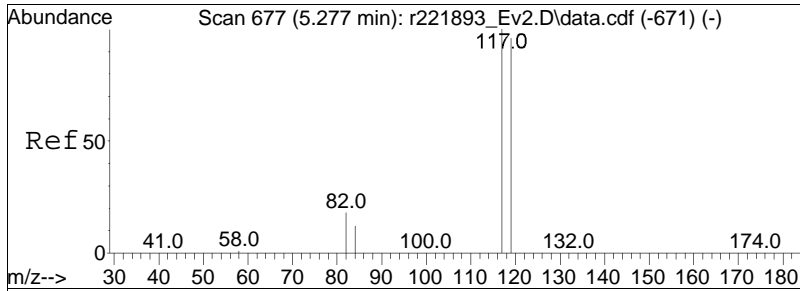
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223428_Ev2.D
Acq On : 28 Mar 2024 9:43 PM
Operator : AIRLAB22:JMB
Sample : L2414212-04,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

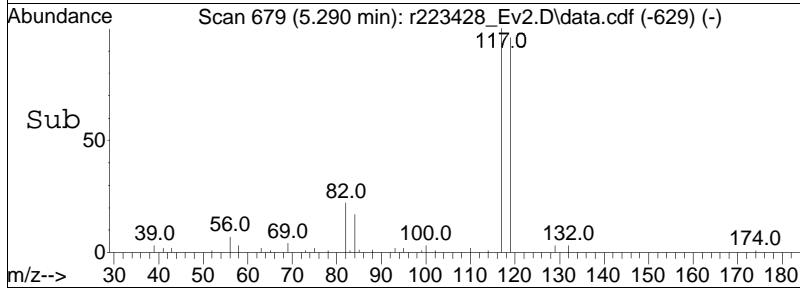
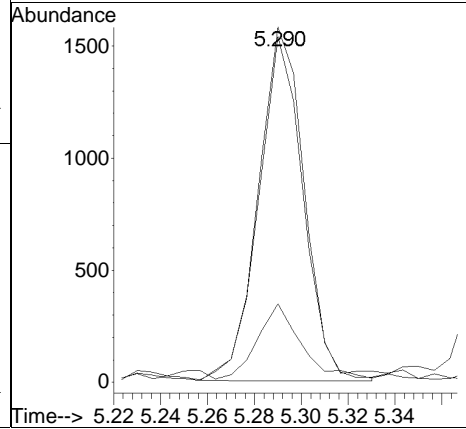
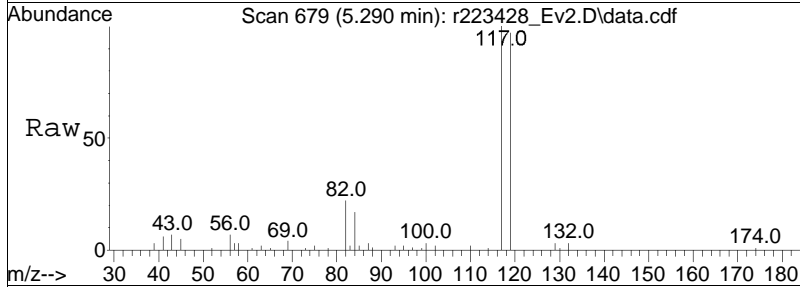
Quant Time: Mar 29 14:51:12 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

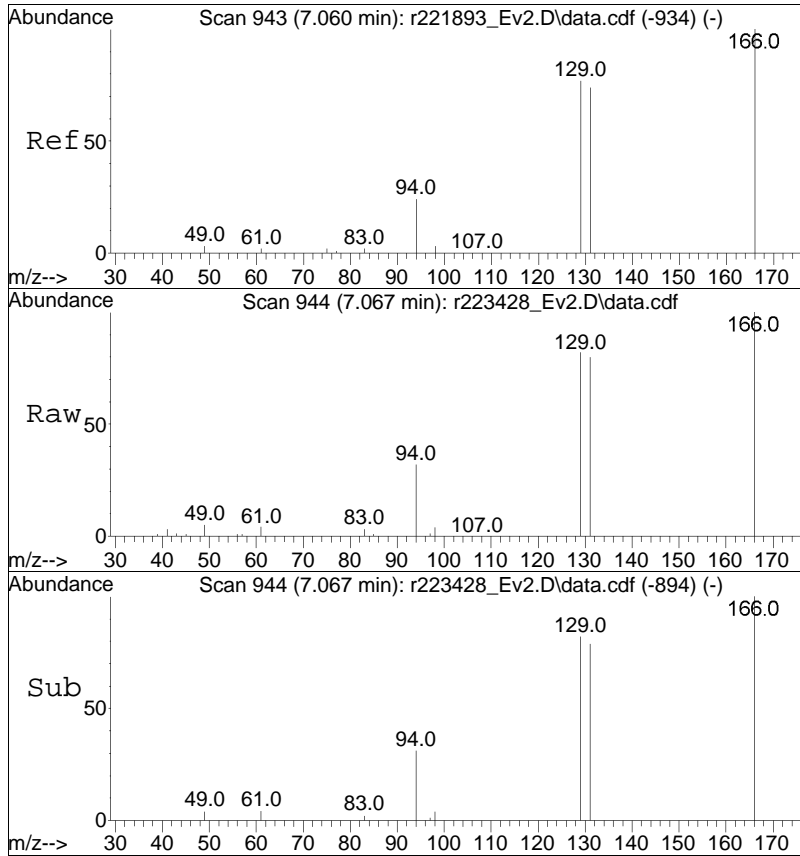




#38
 carbon tetrachloride
 Concen: 0.10 ppbV
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223428_Ev2.D
 Acq: 28 Mar 2024 9:43 PM

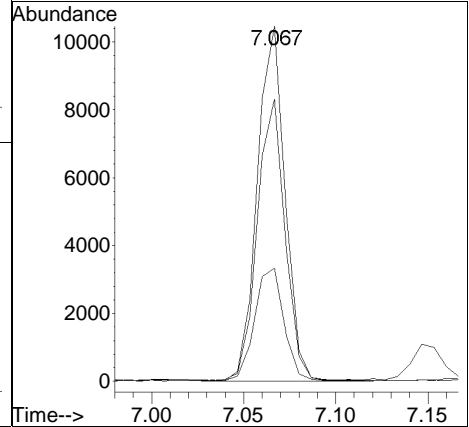
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2145		
119	97.4	76.9	115.3	
82	22.1	14.2	21.2#	





#57
 tetrachloroethene
 Concen: 0.30 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223428_Ev2.D
 Acq: 28 Mar 2024 9:43 PM

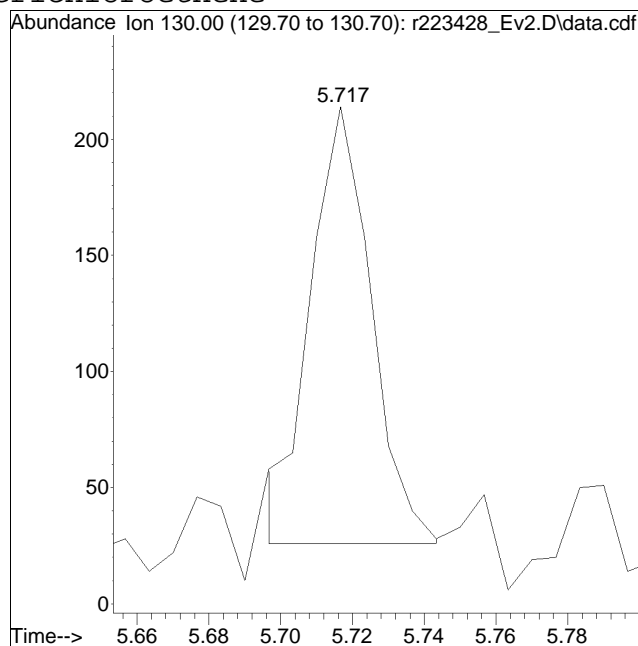
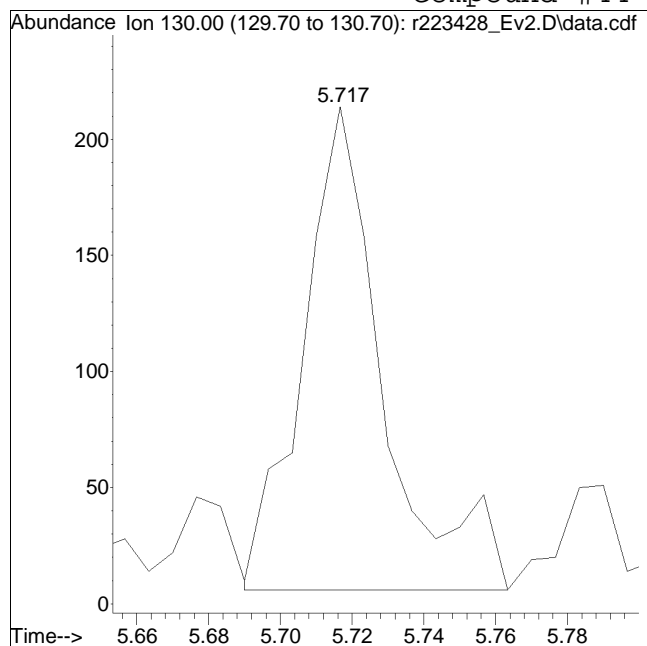
Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.5	59.4	89.2
94	31.9	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223428_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:9: 3 Instrument :
Sample : L2414212-04,3,250,250 Quant Date : 3/29/2024 2:51 pm

Compound #44: trichloroethene



Original Peak Response = 324

Manual Peak Response = 220 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223429_Ev2.D
 Acq On : 28 Mar 2024 10:15 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-05,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:16 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	251778	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		93.68%	
33) 1,4-difluorobenzene	5.383	114	826234	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		98.49%	
51) chlorobenzene-D5	7.347	54	112403	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		105.68%	

System Monitoring Compounds

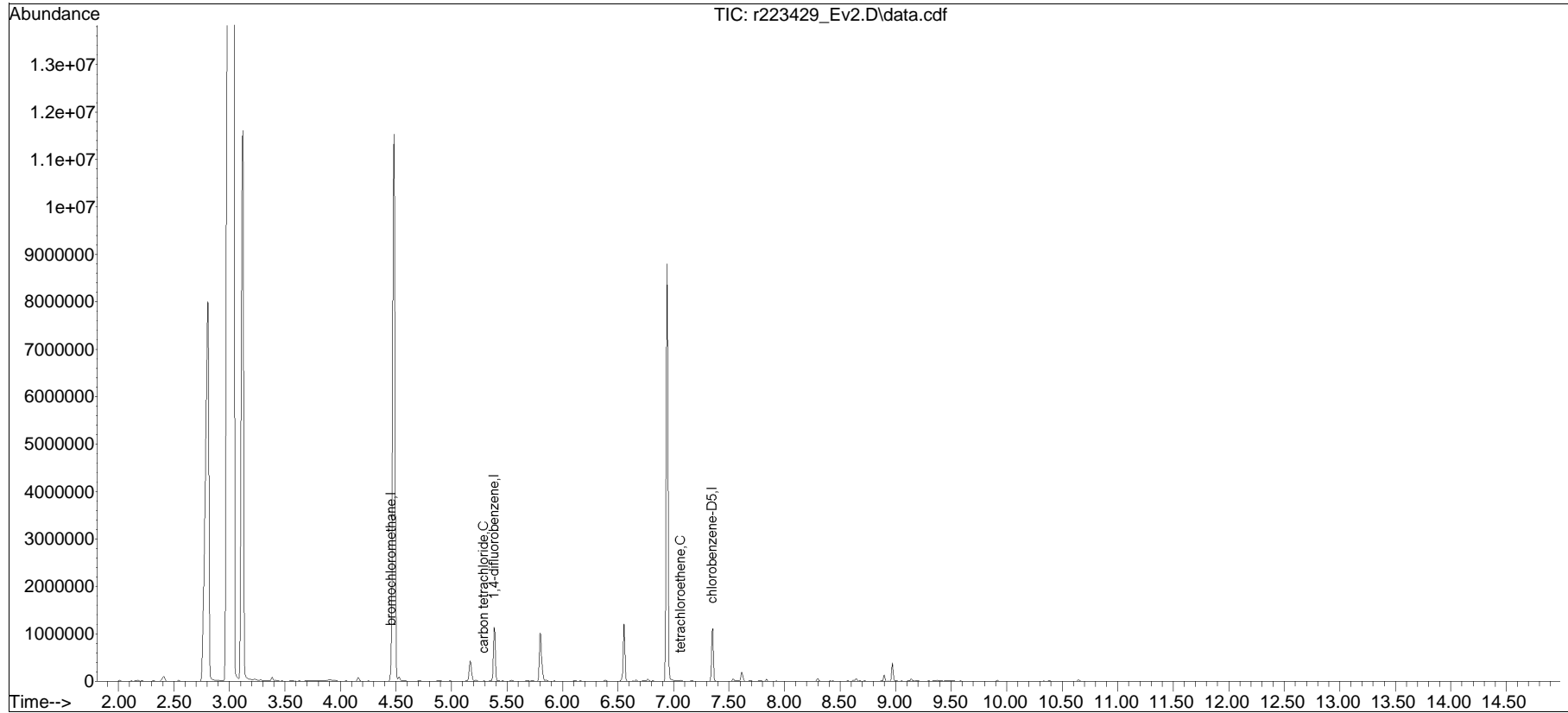
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.290	117	2225M4	0.094	ppbV	
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	4286	0.104	ppbV #	90

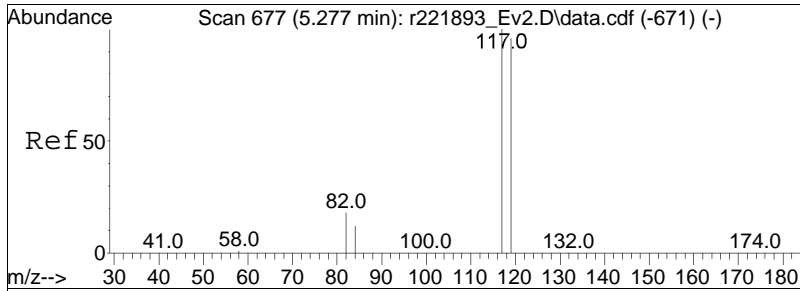
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223429_Ev2.D
Acq On : 28 Mar 2024 10:15 PM
Operator : AIRLAB22:JMB
Sample : L2414212-05,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

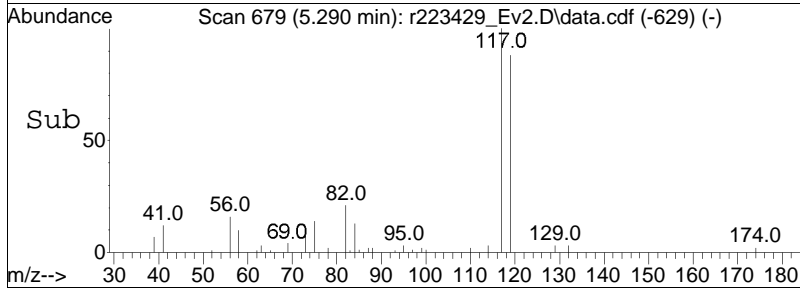
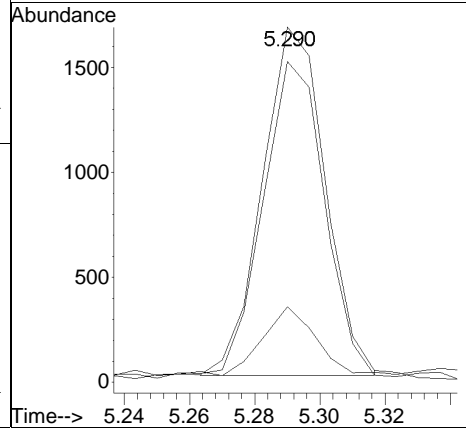
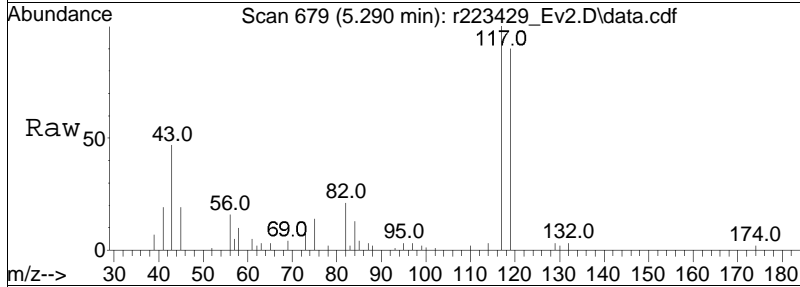
Quant Time: Mar 29 14:51:16 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

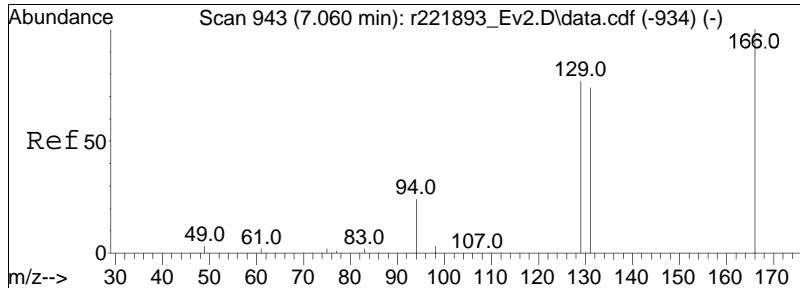




#38
 carbon tetrachloride
 Concen: 0.09 ppbV m
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223429_Ev2.D
 Acq: 28 Mar 2024 10:15 PM

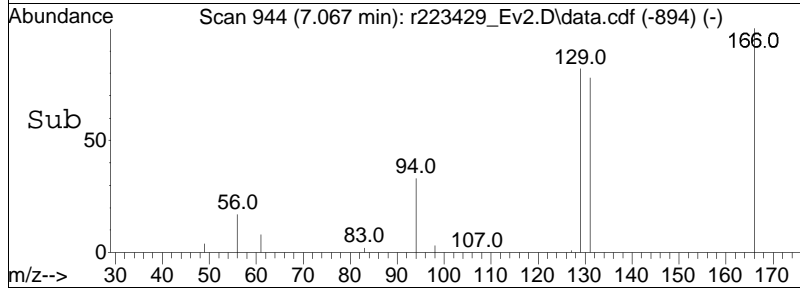
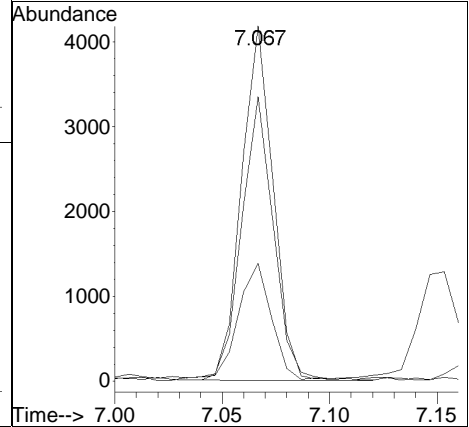
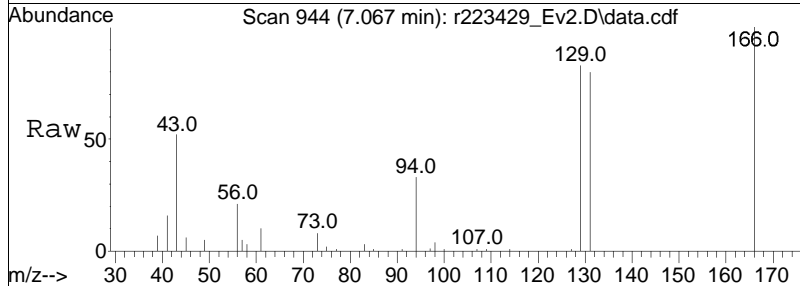
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2225		
119	90.3		76.9	115.3
82	21.3		14.2	21.2#





#57
 tetrachloroethene
 Concen: 0.10 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223429_Ev2.D
 Acq: 28 Mar 2024 10:15 PM

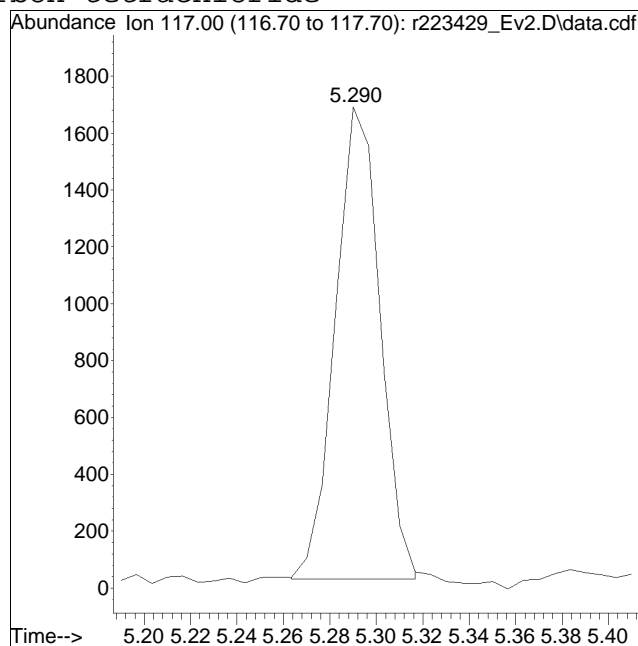
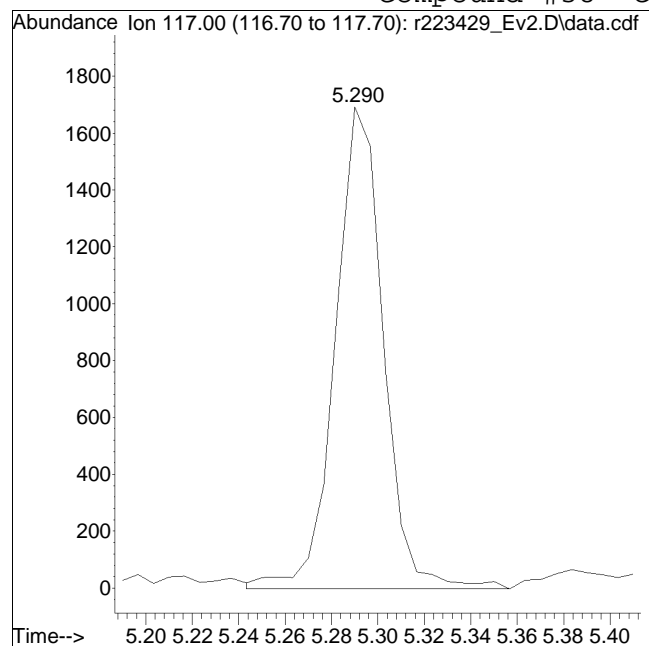
Tgt Ion	Ratio	Lower	Upper
166	100		
131	80.1	59.4	89.2
94	33.2	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223429_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:0: 5 Instrument :
Sample : L2414212-05,3,250,250 Quant Date : 3/29/2024 2:51 pm

Compound #38: carbon tetrachloride



Original Peak Response = 2443

Manual Peak Response = 2225 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223431_Ev2.D
 Acq On : 28 Mar 2024 11:18 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-06,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:24 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	258828	10.000	ppbV	0.01
Standard Area =	268768		Recovery =	96.30%		
33) 1,4-difluorobenzene	5.390	114	791617	10.000	ppbV	0.02
Standard Area =	838879		Recovery =	94.37%		
51) chlorobenzene-D5	7.353	54	106842	10.000	ppbV	0.01
Standard Area =	106366		Recovery =	100.45%		

System Monitoring Compounds

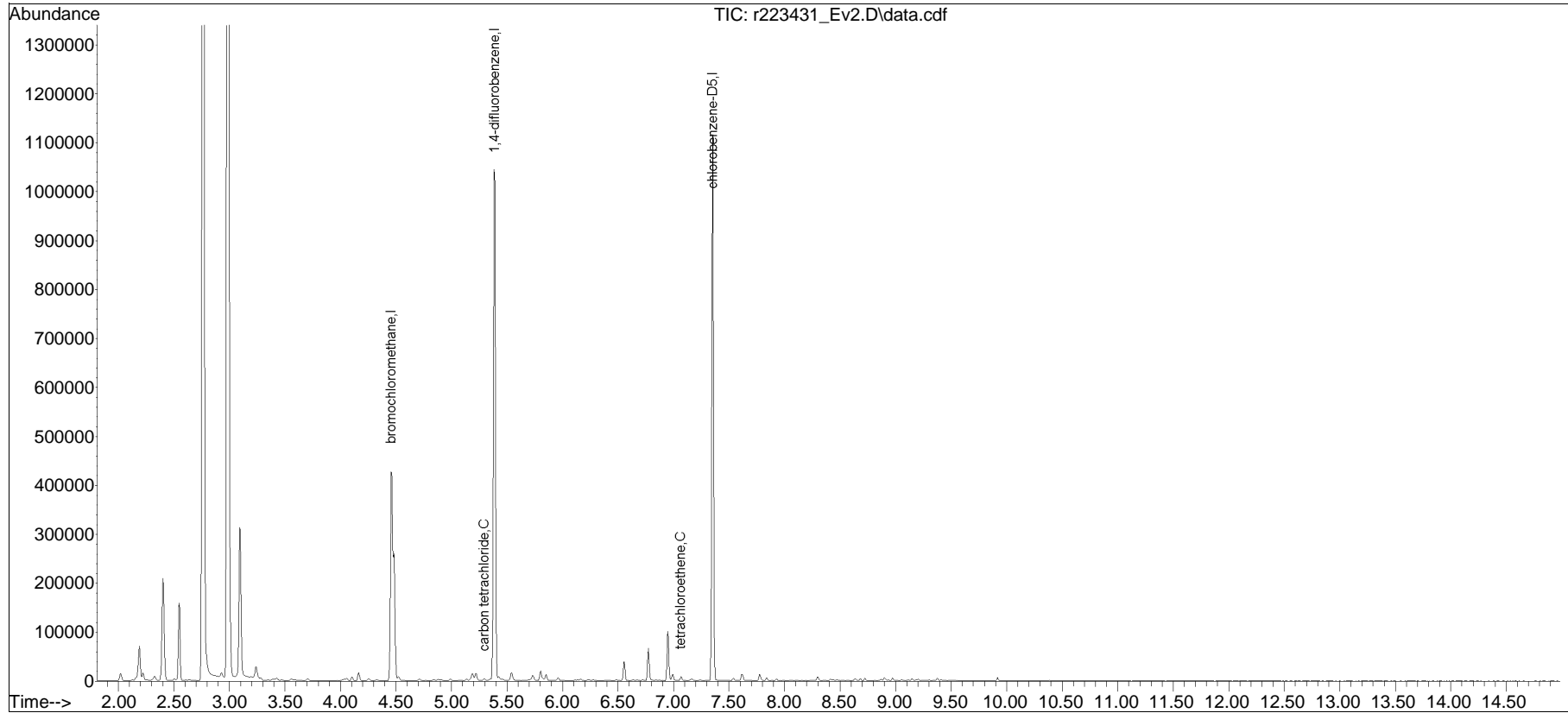
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	4.377		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.297	117	2001	0.089	ppbV #	97
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	2692	0.069	ppbV #	91

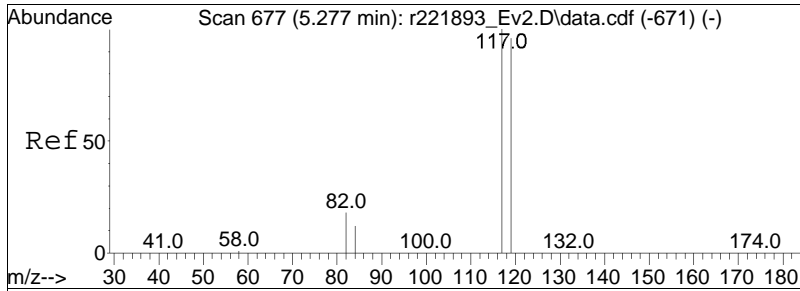
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223431_Ev2.D
Acq On : 28 Mar 2024 11:18 PM
Operator : AIRLAB22:JMB
Sample : L2414212-06,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

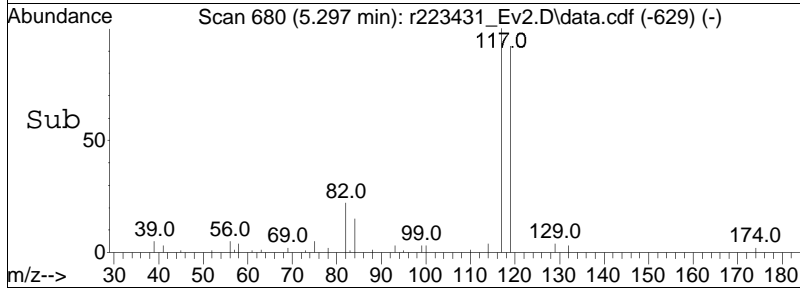
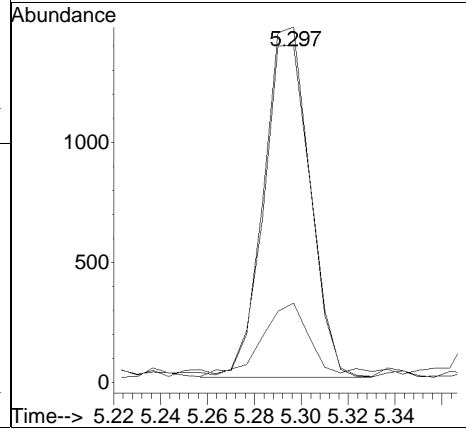
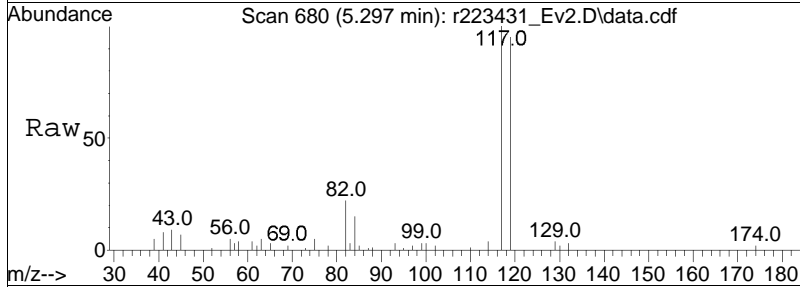
Quant Time: Mar 29 14:51:24 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

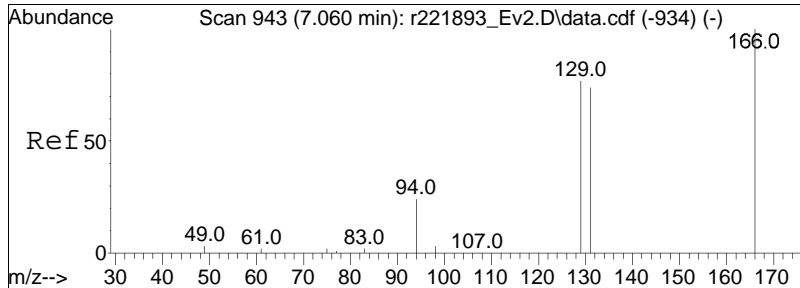




#38
 carbon tetrachloride
 Concen: 0.09 ppbV
 RT: 5.297 min Scan# 680
 Delta R.T. 0.020 min
 Lab File: r223431_Ev2.D
 Acq: 28 Mar 2024 11:18 PM

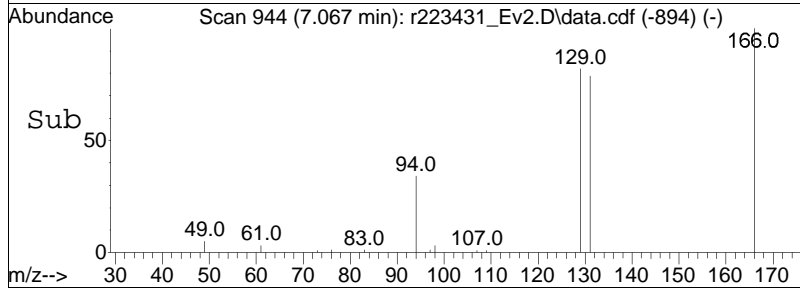
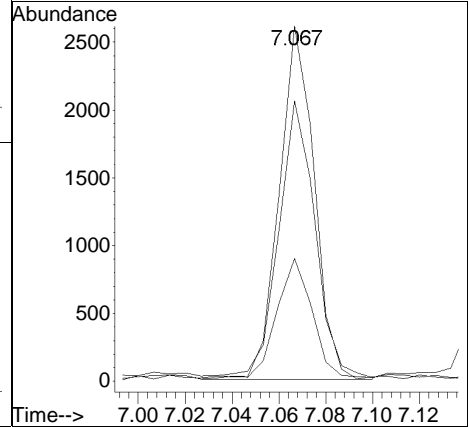
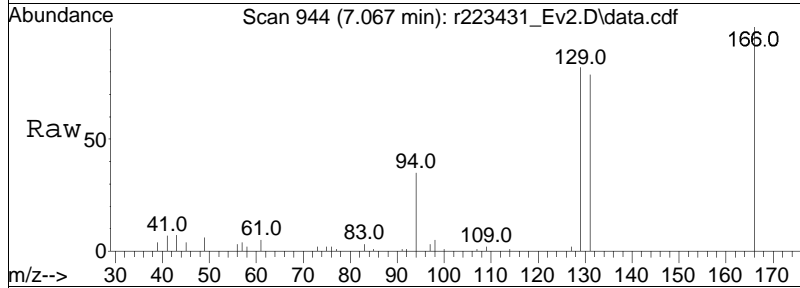
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2001		
119	95.0	76.9	115.3	
82	22.4	14.2	21.2#	





#57
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223431_Ev2.D
 Acq: 28 Mar 2024 11:18 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.0	59.4	89.2
94	34.6	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223431_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 8 Instrument :
Sample : L2414212-06,3,250,250 Quant Date : 3/29/2024 2:51 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223432_Ev2.D
 Acq On : 28 Mar 2024 11:50 PM
 Operator : AIRLAB22:JMB
 Sample : L2414212-07,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:29 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.463	49	251677	10.000	ppbV	0.02
Standard Area =	268768		Recovery =		93.64%	
33) 1,4-difluorobenzene	5.390	114	766644	10.000	ppbV	0.02
Standard Area =	838879		Recovery =		91.39%	
51) chlorobenzene-D5	7.353	54	105194	10.000	ppbV	0.01
Standard Area =	106366		Recovery =		98.90%	

System Monitoring Compounds

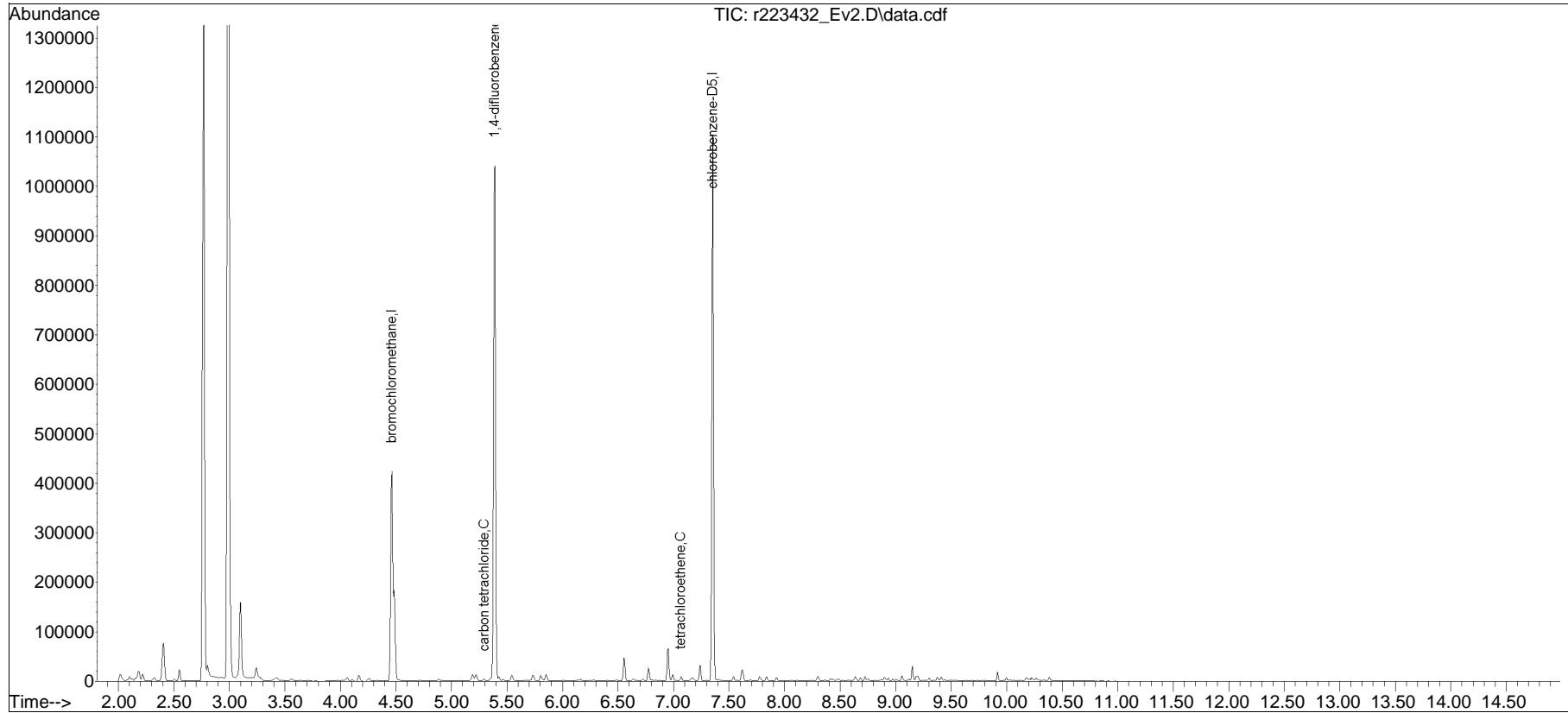
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	3.350		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	5.297	117	1976	0.090	ppbV	97
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	2745	0.071	ppbV #	89

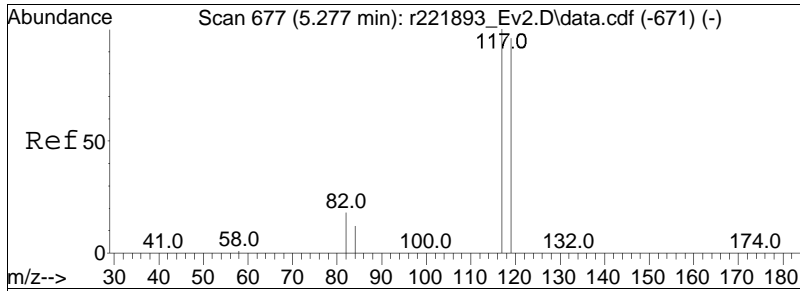
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223432_Ev2.D
Acq On : 28 Mar 2024 11:50 PM
Operator : AIRLAB22:JMB
Sample : L2414212-07,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

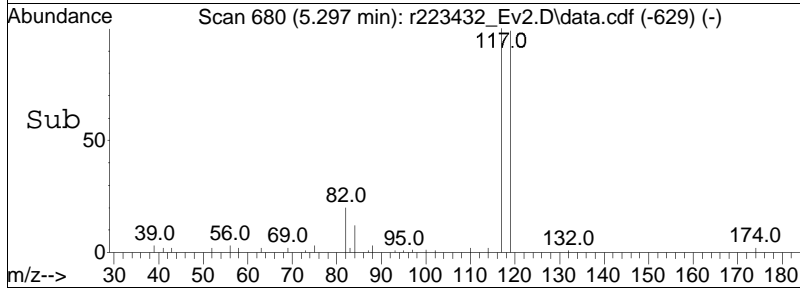
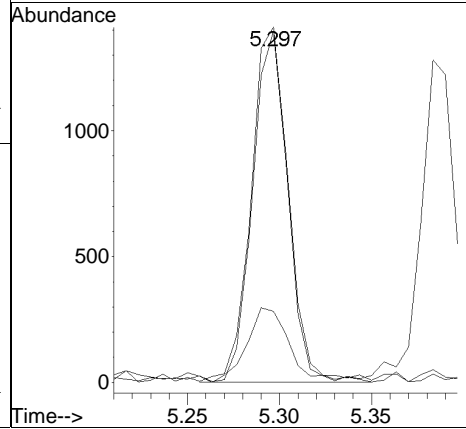
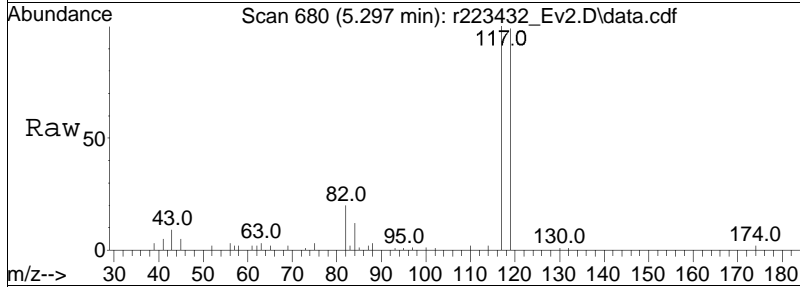
Quant Time: Mar 29 14:51:29 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

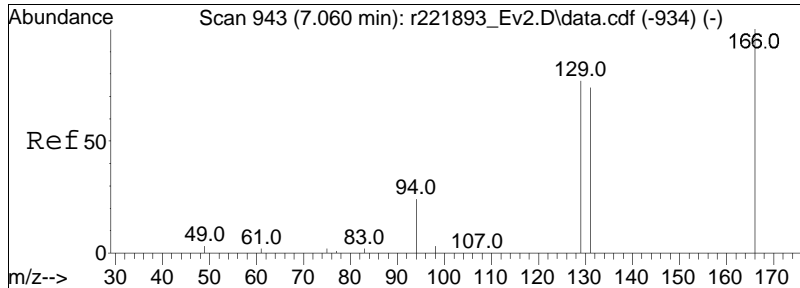




#38
 carbon tetrachloride
 Concen: 0.09 ppbV
 RT: 5.297 min Scan# 680
 Delta R.T. 0.020 min
 Lab File: r223432_Ev2.D
 Acq: 28 Mar 2024 11:50 PM

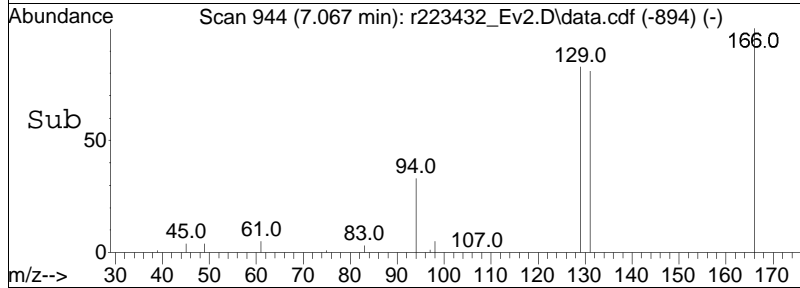
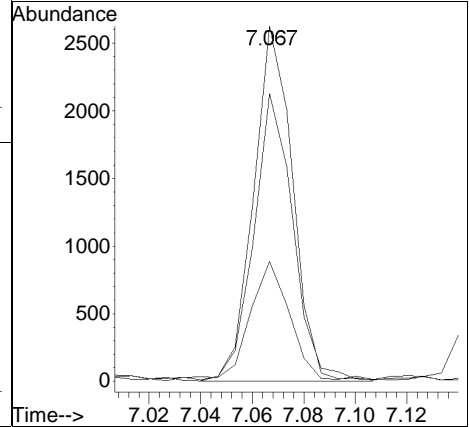
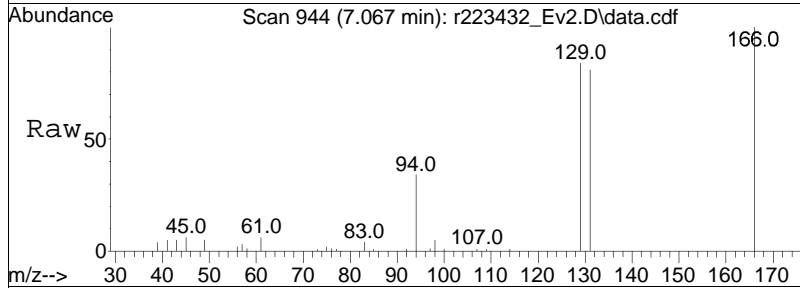
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	1976		
119	98.9	76.9	115.3	
82	20.0	14.2	21.2	





#57
 tetrachloroethene
 Concen: 0.07 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223432_Ev2.D
 Acq: 28 Mar 2024 11:50 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	81.0	59.4	89.2
94	33.8	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223432_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:1: 0 Instrument :
Sample : L2414212-07,3,250,250 Quant Date : 3/29/2024 2:51 pm

There are no manual integrations or false positives in this file.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Calibration dates : 11/29/23 21:09 11/30/23 01:51

Lab Number : L2414212
 Project Number : 195601412
 Ical Ref : ICAL20614

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.816	0.682	0.676	0.584	0.570	0.598	0.584	0.644	13.68
3) dichlorodifluoromethane				1.044	1.007	0.946	0.927	0.804	0.804	0.707	0.891	13.76
4) C chloromethane				0.493	0.461	0.455	0.426	0.424	0.418	0.416	0.442	6.55
5) Freon-114		1.477	1.421	1.490	1.435	1.435	1.308	1.253	1.122	0.950	1.321	13.92
6) C vinyl chloride	0.827	0.655	0.624	0.662	0.628	0.637	0.593	0.580	0.542	0.512	0.626	13.68
7) C 1,3-butadiene	0.505	0.470	0.432	0.478	0.460	0.460	0.416	0.409	0.396	0.373	0.440	9.39
8) C bromomethane	0.655	0.524	0.487	0.496	0.467	0.473	0.436	0.423	0.392	0.349	0.470	17.66
9) C chloroethane			0.258	0.256	0.242	0.268	0.221	0.221	0.222	0.205	0.237	9.57
10) ethanol					0.202	0.162	0.167	0.148	0.164	0.129	0.162	14.95
11) C vinyl bromide				0.516	0.491	0.487	0.444	0.432	0.417	0.368	0.451	11.28
12) C acrolein		0.258	0.239	0.213	0.204	0.197	0.184	0.183	0.174	0.167	0.202	15.06
13) acetone				0.392	0.377	0.373	0.330	0.321	0.309	0.284	0.341	11.80
14) trichlorofluoromethane		0.619	0.581	0.597	0.580	0.578	0.536	0.525	0.491	0.443	0.550	10.26
15) isopropyl alcohol				0.649	0.649	0.602	0.560	0.540	0.541	0.492	0.576	10.29
16) C acrylonitrile				0.386	0.395	0.378	0.354	0.349	0.352	0.321	0.362	7.10
17) C 1,1-dichloroethene	1.050	0.950	0.935	0.895	0.978	1.038	0.943	0.931	0.931	0.724	0.937	9.56
18) tertiary butyl alcohol					1.347	1.255	1.325	1.289	1.310	1.117	1.274	6.51
19) C methylene chloride					0.910	0.886	0.793	0.788	0.773	0.738	0.814	8.34
20) C 3-chloropropene				1.182	1.159	1.148	1.069	1.067	1.071	1.020	1.102	5.49
21) C carbon disulfide				2.576	2.517	2.507	2.298	2.273	2.263	2.067	2.357	7.73
22) Freon 113	1.758	1.553	1.472	1.522	1.487	1.467	1.378	1.359	1.296	1.130	1.442	11.60
23) trans-1,2-dichloroethene	1.383	1.260	1.157	1.180	1.150	1.148	1.053	1.040	1.034	0.932	1.134	11.27
24) C 1,1-dichloroethane	1.471	1.446	1.431	1.499	1.465	1.450	1.369	1.361	1.327	1.225	1.404	5.94
25) C MTBE	2.166	2.088	2.058	2.122	2.107	2.097	1.935	1.919	1.894	1.701	2.009	7.13
26) C vinyl acetate					1.532	1.531	1.402	1.442	1.518	1.507	1.489	3.63
27) C 2-butanone				1.859	1.826	1.850	1.674	1.671	1.688	1.474	1.720	8.00
28) cis-1,2-dichloroethene	1.125	1.111	1.016	1.079	1.049	1.034	0.979	0.968	0.937	0.847	1.014	8.35
29) Ethyl Acetate				0.280	0.286	0.284	0.262	0.265	0.256	0.219	0.264	8.79
30) C chloroform	1.687	1.362	1.341	1.405	1.369	1.371	1.290	1.259	1.194	1.025	1.330	12.68
31) Tetrahydrofuran				1.149	1.122	1.127	1.045	1.037	1.043	0.974	1.071	5.89
32) C 1,2-dichloroethane	0.911	0.717	0.713	0.865	0.771	0.744	0.688	0.670	0.633	0.534	0.725	14.98
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.402	0.400	0.390	0.354	0.342	0.321	0.256	0.352	14.94
35) s 1,2-dichloroethane-D4				0.281	0.281	0.283	0.283	0.279	0.271	0.240	0.274	5.69
36) C 1,1,1-trichloroethane	0.368	0.334	0.317	0.331	0.324	0.322	0.299	0.323	0.295	0.237	0.315	10.73



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec
Project Name : BELLE HARBOR
Instrument ID : AIRLAB22
Calibration dates : 11/29/23 21:09 11/30/23 01:51

Lab Number : L2414212
Project Number : 195601412
Ical Ref : ICAL20614

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37) C benzene			0.822	0.818	0.808	0.794	0.754	0.736	0.708	0.621	0.758	9.12
38) C carbon tetrachloride	0.331	0.298	0.299	0.306	0.305	0.298	0.282	0.273	0.253	0.204	0.285	12.40
39) cyclohexane				0.438	0.418	0.427	0.393	0.378	0.367	0.324	0.392	10.16
40) Dibromomethane		0.241	0.226	0.223	0.214	0.209	0.194	0.188	0.171	0.137	0.200	15.92
41) C 1,2-dichloropropane	0.324	0.288	0.268	0.276	0.272	0.267	0.253	0.247	0.231	0.194	0.262	13.16
42) bromodichloromethane	0.430	0.378	0.385	0.393	0.387	0.382	0.350	0.338	0.314	0.250	0.361	13.97
43) C 1,4-dioxane			0.192	0.196	0.179	0.173	0.157	0.161	0.159	0.130	0.168	12.74
44) C trichloroethene	0.405	0.366	0.359	0.364	0.363	0.353	0.335	0.327	0.304	0.242	0.342	12.97
45) C 2,2,4-trimethylpentane				1.272	1.259	1.251	1.136	1.095	1.030	0.823	1.124	14.39
46) heptane				0.491	0.484	0.482	0.441	0.431	0.413	0.340	0.440	12.15
47) C cis-1,3-dichloropropene	0.441	0.396	0.375	0.399	0.398	0.389	0.371	0.368	0.345	0.286	0.377	10.82
48) C 4-methyl-2-pentanone					0.557	0.552	0.514	0.496	0.459	0.369	0.491	14.24
49) trans-1,3-dichloropropene	0.315	0.308	0.295	0.316	0.319	0.316	0.299	0.298	0.284	0.244	0.299	7.50
50) C 1,1,2-trichloroethane	0.332	0.291	0.286	0.296	0.294	0.290	0.279	0.274	0.261	0.225	0.283	9.67
51) I chlorobenzene-D5	-----ISTD-----											
52) C toluene			9.439	9.259	9.127	9.069	8.649	8.641	8.312	7.428	8.740	7.41
53) s toluene-D8				1.029	1.026	1.056	1.068	1.100	1.166	1.310	1.108	9.15
54) 2-hexanone				5.147	5.028	5.077	4.772	4.854	4.886	4.717	4.926	3.27
55) dibromochloromethane	4.281	4.050	3.865	4.040	4.011	3.967	3.715	3.731	3.723	3.369	3.875	6.52
56) C 1,2-dibromoethane	4.474	4.206	4.124	4.215	4.137	4.122	3.969	4.017	4.015	3.743	4.102	4.64
57) C tetrachloroethene	4.146	3.679	3.748	3.765	3.778	3.684	3.577	3.580	3.473	3.072	3.650	7.43
58) 1,1,1,2-tetrachloroethane	3.488	3.710	3.124	3.297	3.232	3.167	3.012	2.970	2.789	2.369	3.116	11.89
59) C chlorobenzene	7.815	7.643	7.383	7.597	7.614	7.468	7.218	7.190	6.829	5.896	7.265	7.69
60) C ethylbenzene	1.136	1.079	1.075	1.102	1.095	1.096	1.064	1.062	1.020	0.896	1.063	6.20
61) C m+p-xylene	9.063	8.776	8.710	8.931	9.020	8.980	8.579	8.331	7.537	6.093	8.402	11.07
62) C bromoform	3.406	3.014	2.905	2.975	3.002	2.990	2.826	2.831	2.794	2.447	2.919	8.20
63) C styrene	6.759	6.254	6.287	7.247	7.318	7.395	7.385	7.406	7.179	6.582	6.981	6.68
64) C 1,1,2,2-tetrachloroethane	6.371	6.188	5.955	6.144	6.176	6.141	5.973	5.862	5.427	4.591	5.883	8.86
65) C o-xylene	9.031	8.853	8.750	8.989	9.121	8.958	8.533	8.141	7.277	5.790	8.344	12.65
66) 1,2,3-Trichloropropane	5.091	4.577	4.514	4.680	4.720	4.676	4.594	4.624	4.492	4.193	4.616	4.85
67) s bromofluorobenzene				6.518	6.347	6.604	6.919	7.121	7.251	8.119	6.983	8.57
68) C isopropylbenzene				1.158	1.165	1.155	1.116	1.092	1.018	0.879	1.083	9.55
69) Bromobenzene	6.571	6.116	6.255	6.488	6.499	6.463	6.266	6.196	5.837	5.134	6.182	6.94
70) 4-ethyl toluene	1.184	1.121	1.115	1.190	1.212	1.212	1.157	1.131	1.073	0.910	1.131	7.96
71) 1,3,5-trimethylbenzene	0.948	0.901	0.895	1.052	1.073	1.076	1.049	1.015	0.914	0.766	0.969	10.46
72) tert-butylbenzene				1.105	1.114	1.108	1.050	0.966	0.822	0.631	0.971	18.86



Initial Calibration Summary

Form 6

Air Volatiles

Client : Stantec	Lab Number : L2414212
Project Name : BELLE HARBOR	Project Number : 195601412
Instrument ID : AIRLAB22	Ical Ref : ICAL20614
Calibration dates : 11/29/23 21:09 11/30/23 01:51	

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73) 1,2,4-trimethylbenzene	0.967	0.963	0.955	1.038	1.060	1.063	1.017	0.929	0.786	0.603	0.938	15.23
74) C Benzyl Chloride			4.308	4.580	4.845	5.113	5.718	5.981	6.066	5.474	5.261	12.42
75) 1,3-dichlorobenzene	7.669	7.161	7.248	7.666	7.950	7.868	7.994	7.742	7.060	5.761	7.412	9.01
76) C 1,4-dichlorobenzene	7.645	7.034	6.988	7.463	7.666	7.752	7.831	7.691	6.903	5.749	7.272	8.75
77) sec-butylbenzene				1.440	1.479	1.489	1.442	1.381	1.243	1.017	1.356	12.63
78) p-isopropyltoluene				1.301	1.326	1.323	1.275	1.161	0.975	0.741	1.158	19.21
79) 1,2-dichlorobenzene	6.958	6.722	6.737	7.212	7.306	7.344	7.523	7.393	6.788	5.830	6.981	7.15
80) n-butylbenzene				1.059	1.104	1.107	1.113	1.064	0.948	0.790	1.026	11.57
81) 1,2-dibromo-3-chloropr...	2.460	2.317	2.162	2.367	2.449	2.472	2.463	2.325	2.059	1.772	2.285	9.93
82) C 1,2,4-trichlorobenzene		4.161	4.086	4.787	5.205	5.440	6.130	6.003	5.177	4.206	5.022	15.36
83) naphthalene		1.127	1.106	1.212	1.363	1.440	1.456	1.353	1.103	0.838	1.222	16.47
84) 1,2,3-trichlorobenzene		3.470	3.263	3.980	4.548	4.716	5.346	5.258	4.552	3.852	4.331	17.06
85) C hexachlorobutadiene		3.324	3.175	3.918	4.141	4.110	4.195	3.794	3.109	2.369	3.571	17.29



Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1) I bromochloromethane	-----ISTD-----											
2) propylene				0.816	0.682	0.676	0.584	0.570	0.598	0.584	0.644	13.68
3) dichlorodifluo...				1.044	1.007	0.946	0.927	0.804	0.804	0.707	0.891	13.76
4) C chloromethane				0.493	0.461	0.455	0.426	0.424	0.418	0.416	0.442	6.55
5) Freon-114		1.477	1.421	1.490	1.435	1.435	1.308	1.253	1.122	0.950	1.321	13.92
6) C vinyl chloride	0.827	0.655	0.624	0.662	0.628	0.637	0.593	0.580	0.542	0.512	0.626	13.68
7) C 1,3-butadiene	0.505	0.470	0.432	0.478	0.460	0.460	0.416	0.409	0.396	0.373	0.440	9.39
8) C bromomethane	0.655	0.524	0.487	0.496	0.467	0.473	0.436	0.423	0.392	0.349	0.470	17.66
9) C chloroethane			0.258	0.256	0.242	0.268	0.221	0.221	0.222	0.205	0.237	9.57
10) ethanol					0.202	0.162	0.167	0.148	0.164	0.129	0.162	14.95
11) C vinyl bromide				0.516	0.491	0.487	0.444	0.432	0.417	0.368	0.451	11.28
12) C acrolein		0.258	0.239	0.213	0.204	0.197	0.184	0.183	0.174	0.167	0.202	15.06
13) acetone				0.392	0.377	0.373	0.330	0.321	0.309	0.284	0.341	11.80
14) trichlorofluor...		0.619	0.581	0.597	0.580	0.578	0.536	0.525	0.491	0.443	0.550	10.26
15) isopropyl alcohol				0.649	0.649	0.602	0.560	0.540	0.541	0.492	0.576	10.29
16) C acrylonitrile				0.386	0.395	0.378	0.354	0.349	0.352	0.321	0.362	7.10

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17) C 1,1-dichloroet...	1.050	0.950	0.935	0.895	0.978	1.038	0.943	0.931	0.931	0.724	0.937	9.56
18) tertiary butyl...					1.347	1.255	1.325	1.289	1.310	1.117	1.274	6.51
19) C methylene chlo...					0.910	0.886	0.793	0.788	0.773	0.738	0.814	8.34
20) C 3-chloropropene				1.182	1.159	1.148	1.069	1.067	1.071	1.020	1.102	5.49
21) C carbon disulfide				2.576	2.517	2.507	2.298	2.273	2.263	2.067	2.357	7.73
22) Freon 113	1.758	1.553	1.472	1.522	1.487	1.467	1.378	1.359	1.296	1.130	1.442	11.60
23) trans-1,2-dich...	1.383	1.260	1.157	1.180	1.150	1.148	1.053	1.040	1.034	0.932	1.134	11.27
24) C 1,1-dichloroet...	1.471	1.446	1.431	1.499	1.465	1.450	1.369	1.361	1.327	1.225	1.404	5.94
25) C MTBE	2.166	2.088	2.058	2.122	2.107	2.097	1.935	1.919	1.894	1.701	2.009	7.13
26) C vinyl acetate					1.532	1.531	1.402	1.442	1.518	1.507	1.489	3.63
27) C 2-butanone				1.859	1.826	1.850	1.674	1.671	1.688	1.474	1.720	8.00
28) cis-1,2-dichlo...	1.125	1.111	1.016	1.079	1.049	1.034	0.979	0.968	0.937	0.847	1.014	8.35
29) Ethyl Acetate				0.280	0.286	0.284	0.262	0.265	0.256	0.219	0.264	8.79
30) C chloroform	1.687	1.362	1.341	1.405	1.369	1.371	1.290	1.259	1.194	1.025	1.330	12.68
31) Tetrahydrofuran				1.149	1.122	1.127	1.045	1.037	1.043	0.974	1.071	5.89
32) C 1,2-dichloroet...	0.911	0.717	0.713	0.865	0.771	0.744	0.688	0.670	0.633	0.534	0.725	14.98

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
33) I 1,4-difluorobenzene	-----ISTD-----											
34) C hexane				0.402	0.400	0.390	0.354	0.342	0.321	0.256	0.352	14.94
35) s 1,2-dichloroet...				0.281	0.281	0.283	0.283	0.279	0.271	0.240	0.274	5.69
36) C 1,1,1-trichlor...	0.368	0.334	0.317	0.331	0.324	0.322	0.299	0.323	0.295	0.237	0.315	10.73
37) C benzene			0.822	0.818	0.808	0.794	0.754	0.736	0.708	0.621	0.758	9.12
38) C carbon tetrach...	0.331	0.298	0.299	0.306	0.305	0.298	0.282	0.273	0.253	0.204	0.285	12.40
39) cyclohexane				0.438	0.418	0.427	0.393	0.378	0.367	0.324	0.392	10.16
40) Dibromomethane		0.241	0.226	0.223	0.214	0.209	0.194	0.188	0.171	0.137	0.200	15.92
41) C 1,2-dichloropr...	0.324	0.288	0.268	0.276	0.272	0.267	0.253	0.247	0.231	0.194	0.262	13.16
42) bromodichlorom...	0.430	0.378	0.385	0.393	0.387	0.382	0.350	0.338	0.314	0.250	0.361	13.97
43) C 1,4-dioxane			0.192	0.196	0.179	0.173	0.157	0.161	0.159	0.130	0.168	12.74
44) C trichloroethene	0.405	0.366	0.359	0.364	0.363	0.353	0.335	0.327	0.304	0.242	0.342	12.97
45) C 2,2,4-trimethy...				1.272	1.259	1.251	1.136	1.095	1.030	0.823	1.124	14.39
46) heptane				0.491	0.484	0.482	0.441	0.431	0.413	0.340	0.440	12.15
47) C cis-1,3-dichlo...	0.441	0.396	0.375	0.399	0.398	0.389	0.371	0.368	0.345	0.286	0.377	10.82
48) C 4-methyl-2-pen...					0.557	0.552	0.514	0.496	0.459	0.369	0.491	14.24

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound		0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
49)	trans-1,3-dich...	0.315	0.308	0.295	0.316	0.319	0.316	0.299	0.298	0.284	0.244	0.299	7.50
50) C	1,1,2-trichlor...	0.332	0.291	0.286	0.296	0.294	0.290	0.279	0.274	0.261	0.225	0.283	9.67
51) I	chlorobenzene-D5	-----ISTD-----											
52) C	toluene			9.439	9.259	9.127	9.069	8.649	8.641	8.312	7.428	8.740	7.41
53) s	toluene-D8				1.029	1.026	1.056	1.068	1.100	1.166	1.310	1.108	9.15
54)	2-hexanone				5.147	5.028	5.077	4.772	4.854	4.886	4.717	4.926	3.27
55)	dibromochlorom...	4.281	4.050	3.865	4.040	4.011	3.967	3.715	3.731	3.723	3.369	3.875	6.52
56) C	1,2-dibromoethane	4.474	4.206	4.124	4.215	4.137	4.122	3.969	4.017	4.015	3.743	4.102	4.64
57) C	tetrachloroethene	4.146	3.679	3.748	3.765	3.778	3.684	3.577	3.580	3.473	3.072	3.650	7.43
58)	1,1,1,2-tetrac...	3.488	3.710	3.124	3.297	3.232	3.167	3.012	2.970	2.789	2.369	3.116	11.89
59) C	chlorobenzene	7.815	7.643	7.383	7.597	7.614	7.468	7.218	7.190	6.829	5.896	7.265	7.69
60) C	ethylbenzene	1.136	1.079	1.075	1.102	1.095	1.096	1.064	1.062	1.020	0.896	1.063	6.20
61) C	m+p-xylene	9.063	8.776	8.710	8.931	9.020	8.980	8.579	8.331	7.537	6.093	8.402	11.07
62) C	bromoform	3.406	3.014	2.905	2.975	3.002	2.990	2.826	2.831	2.794	2.447	2.919	8.20
63) C	styrene	6.759	6.254	6.287	7.247	7.318	7.395	7.385	7.406	7.179	6.582	6.981	6.68
64) C	1,1,2,2-tetrac...	6.371	6.188	5.955	6.144	6.176	6.141	5.973	5.862	5.427	4.591	5.883	8.86

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
65) C o-xylene	9.031	8.853	8.750	8.989	9.121	8.958	8.533	8.141	7.277	5.790	8.344	12.65
66) 1,2,3-Trichlor...	5.091	4.577	4.514	4.680	4.720	4.676	4.594	4.624	4.492	4.193	4.616	4.85
67) s bromofluoroben...				6.518	6.347	6.604	6.919	7.121	7.251	8.119	6.983	8.57
68) C isopropylbenzene				1.158	1.165	1.155	1.116	1.092	1.018	0.879	1.083	9.55
69) Bromobenzene	6.571	6.116	6.255	6.488	6.499	6.463	6.266	6.196	5.837	5.134	6.182	6.94
70) 4-ethyl toluene	1.184	1.121	1.115	1.190	1.212	1.212	1.157	1.131	1.073	0.910	1.131	7.96
71) 1,3,5-trimethy...	0.948	0.901	0.895	1.052	1.073	1.076	1.049	1.015	0.914	0.766	0.969	10.46
72) tert-butylbenzene				1.105	1.114	1.108	1.050	0.966	0.822	0.631	0.971	18.86
73) 1,2,4-trimethy...	0.967	0.963	0.955	1.038	1.060	1.063	1.017	0.929	0.786	0.603	0.938	15.23
74) C Benzyl Chloride			4.308	4.580	4.845	5.113	5.718	5.981	6.066	5.474	5.261	12.42
75) 1,3-dichlorobe...	7.669	7.161	7.248	7.666	7.950	7.868	7.994	7.742	7.060	5.761	7.412	9.01
76) C 1,4-dichlorobe...	7.645	7.034	6.988	7.463	7.666	7.752	7.831	7.691	6.903	5.749	7.272	8.75
77) sec-butylbenzene				1.440	1.479	1.489	1.442	1.381	1.243	1.017	1.356	12.63
78) p-isopropyltol...				1.301	1.326	1.323	1.275	1.161	0.975	0.741	1.158	19.21
79) 1,2-dichlorobe...	6.958	6.722	6.737	7.212	7.306	7.344	7.523	7.393	6.788	5.830	6.981	7.15
80) n-butylbenzene				1.059	1.104	1.107	1.113	1.064	0.948	0.790	1.026	11.57

Response Factor Report

Method Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Method File : TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023
 Response Via : Initial Calibration

Calibration Files

0.02=r221887_Ev2.D 0.05=r221888_Ev2.D 0.1 =r221889_Ev2.D 0.2 =r221890_Ev2.D 0.5 =r221891_Ev2.D
 1.0 =r221892_Ev2.D 5.0 =r221893_Ev2.D 10.0=r221894_Ev2.D 20.0=r221895_Ev2.D 50.0=r221896_Ev2.D

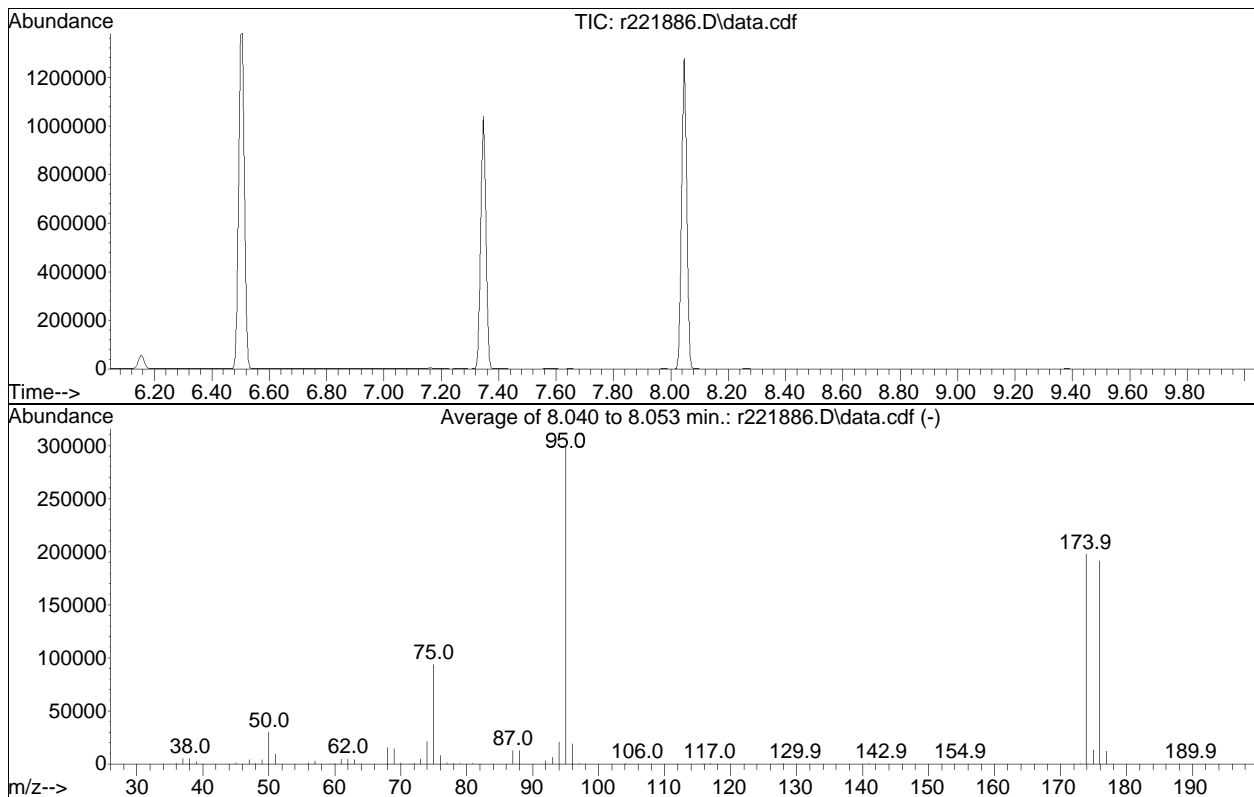
Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81) 1,2-dibromo-3-...	2.460	2.317	2.162	2.367	2.449	2.472	2.463	2.325	2.059	1.772	2.285	9.93
82) C 1,2,4-trichlor...		4.161	4.086	4.787	5.205	5.440	6.130	6.003	5.177	4.206	5.022	15.36
83) naphthalene		1.127	1.106	1.212	1.363	1.440	1.456	1.353	1.103	0.838	1.222	16.47
84) 1,2,3-trichlor...		3.470	3.263	3.980	4.548	4.716	5.346	5.258	4.552	3.852	4.331	17.06
85) C hexachlorobuta...		3.324	3.175	3.918	4.141	4.110	4.195	3.794	3.109	2.369	3.571	17.29

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221886.D
 Acq On : 29 Nov 2023 8:41 PM
 Operator : AIRLAB22:RAY
 Sample : WG1858561-1,3,250,250
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Fri Dec 01 09:22:12 2023



Spectrum Information: Average of 8.040 to 8.053 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	9.9	29873	PASS
75	95	30	66	31.2	93793	PASS
95	95	100	100	100.0	300807	PASS
96	95	5	9	6.4	19360	PASS
173	174	0.00	2	0.4	812	PASS
174	95	50	120	65.7	197760	PASS
175	174	4	9	6.9	13567	PASS
176	174	93	101	96.6	191127	PASS
177	176	5	9	6.5	12433	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221887_Ev2.D
 Acq On : 29 Nov 2023 9:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	226722	10.000	ppbV	0.00
Standard Area =	222532		Recovery =	101.88%		
33) 1,4-difluorobenzene	5.377	114	833698	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	101.20%		
51) chlorobenzene-D5	7.340	54	85152	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	101.07%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	153	0.006	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	0.06%#	
53) toluene-D8	6.500	98	23725	0.261	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	2.61%#	
67) bromofluorobenzene	8.047	95	8327	0.141	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	1.41%#	
Target Compounds						
						Qvalue
2) propylene	2.160	41	1012M6	0.072	ppbV	
3) dichlorodifluoromethane	2.200	85	515	0.025	ppbV	99
4) chloromethane	2.305	50	319	0.033	ppbV #	70
5) Freon-114	2.365	85	701	0.024	ppbV	96
6) vinyl chloride	2.435	62	375	0.028	ppbV	91
7) 1,3-butadiene	2.505	54	229	0.024	ppbV	90
8) bromomethane	2.630	94	297	0.030	ppbV	95
9) chloroethane	2.710	64	162	0.032	ppbV #	34
10) ethanol	2.745	31	1836	0.485	ppbV	96
11) vinyl bromide	2.866	106	294	0.029	ppbV	81
12) acrolein	2.917	56	145	0.035	ppbV #	54
13) acetone	2.974	43	1371	0.183	ppbV #	99
14) trichlorofluoromethane	3.058	101	325	0.027	ppbV	98
15) isopropyl alcohol	3.088	45	1201	0.095	ppbV #	92
16) acrylonitrile	3.187	53	192	0.024	ppbV #	94
17) 1,1-dichloroethene	3.355	61	476	0.022	ppbV	93
18) tertiary butyl alcohol	3.385	59	905	0.030	ppbV #	91
19) methylene chloride	3.410	49	1170	0.065	ppbV	98
20) 3-chloropropene	3.465	41	563	0.023	ppbV #	91
21) carbon disulfide	3.555	76	1200	0.023	ppbV #	1
22) Freon 113	3.540	101	797	0.026	ppbV	95
23) trans-1,2-dichloroethene	3.863	61	627	0.026	ppbV	96
24) 1,1-dichloroethane	3.963	63	667	0.021	ppbV	92

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221887_Ev2.D
 Acq On : 29 Nov 2023 9:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	3.997	73	982	0.022	ppbV	#	94
26) vinyl acetate	4.030	43	721M6	0.023	ppbV		
27) 2-butanone	4.157	43	907	0.024	ppbV		95
28) cis-1,2-dichloroethene	4.363	61	510	0.023	ppbV		96
29) Ethyl Acetate	4.477	61	160	0.027	ppbV	#	29
30) chloroform	4.510	83	765	0.026	ppbV		97
31) Tetrahydrofuran	4.710	42	522	0.022	ppbV		94
32) 1,2-dichloroethane	4.863	62	413M4	0.026	ppbV		
34) hexane	4.470	57	767	0.026	ppbV	#	69
36) 1,1,1-trichloroethane	4.990	97	613	0.025	ppbV	#	94
37) benzene	5.210	78	1520	0.024	ppbV		99
38) carbon tetrachloride	5.283	117	552	0.023	ppbV	#	89
39) cyclohexane	5.343	56	761M3	0.023	ppbV		
40) Dibromomethane	5.583	93	510	0.031	ppbV	#	97
41) 1,2-dichloropropane	5.597	63	540	0.026	ppbV	#	93
42) bromodichloromethane	5.683	83	717	0.025	ppbV	#	93
43) 1,4-dioxane	5.723	88	410	0.031	ppbV		93
44) trichloroethene	5.710	130	675	0.024	ppbV		98
45) 2,2,4-trimethylpentane	5.723	57	2069	0.022	ppbV		96
46) heptane	5.843	43	855	0.023	ppbV	#	89
47) cis-1,3-dichloropropene	6.100	75	735	0.024	ppbV		99
48) 4-methyl-2-pentanone	6.127	43	1191	0.028	ppbV		97
49) trans-1,3-dichloropropene	6.340	75	525	0.021	ppbV	#	93
50) 1,1,2-trichloroethane	6.420	97	553	0.024	ppbV		95
52) toluene	6.547	91	1705	0.023	ppbV		99
54) 2-hexanone	6.667	43	744	0.018	ppbV		99
55) dibromochloromethane	6.740	129	729	0.023	ppbV	#	95
56) 1,2-dibromoethane	6.853	107	762	0.023	ppbV		98
57) tetrachloroethene	7.060	166	706	0.023	ppbV	#	93
58) 1,1,1,2-tetrachloroethane	7.353	131	594	0.023	ppbV	#	95
59) chlorobenzene	7.367	112	1331	0.022	ppbV		98
60) ethylbenzene	7.533	91	1935	0.021	ppbV		99
61) m+p-xylene	7.613	91	3087	0.042	ppbV		96
62) bromoform	7.653	173	580	0.024	ppbV		93
63) styrene	7.780	104	1151	0.018	ppbV		97
64) 1,1,2,2-tetrachloroethane	7.827	83	1085	0.021	ppbV		99
65) o-xylene	7.827	91	1538	0.021	ppbV		96
66) 1,2,3-Trichloropropane	7.887	75	867	0.022	ppbV	#	92
68) isopropylbenzene	8.107	105	1970	0.021	ppbV		98
69) Bromobenzene	8.153	77	1119	0.021	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221887_Ev2.D
 Acq On : 29 Nov 2023 9:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.02
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:45:55 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

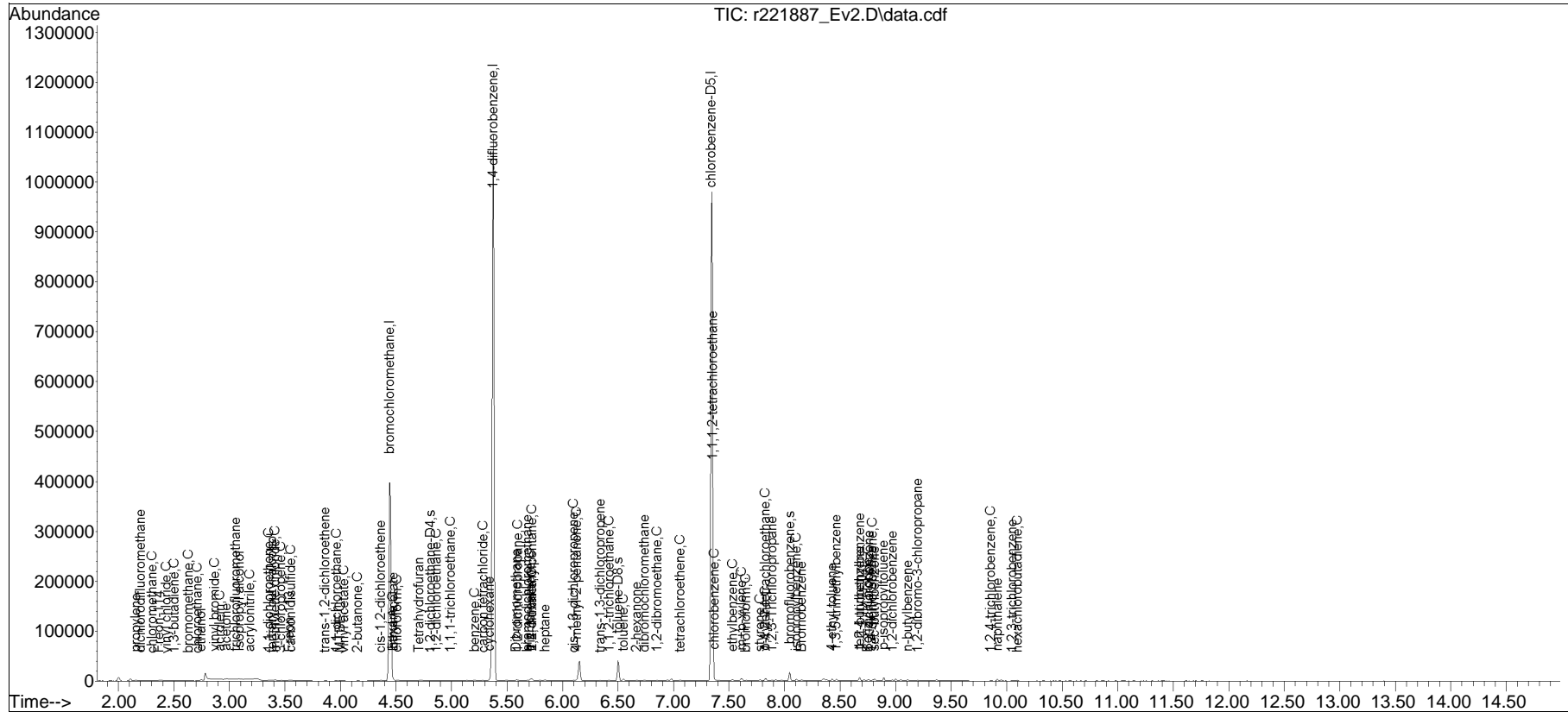
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	8.427	105	2016	0.020	ppbV		98
71) 1,3,5-trimethylbenzene	8.467	105	1615	0.018	ppbV #		97
72) tert-butylbenzene	8.677	119	1796	0.020	ppbV		93
73) 1,2,4-trimethylbenzene	8.677	105	1646	0.019	ppbV		93
74) Benzyl Chloride	8.750	91	841	0.017	ppbV		93
75) 1,3-dichlorobenzene	8.757	146	1306	0.019	ppbV #		92
76) 1,4-dichlorobenzene	8.790	146	1302	0.020	ppbV		92
77) sec-butylbenzene	8.810	105	2320	0.019	ppbV		96
78) p-isopropyltoluene	8.890	119	1974	0.018	ppbV		94
79) 1,2-dichlorobenzene	8.970	146	1185	0.018	ppbV #		90
80) n-butylbenzene	9.110	91	1581	0.017	ppbV		96
81) 1,2-dibromo-3-chloropr...	9.197	75	419	0.020	ppbV		86
82) 1,2,4-trichlorobenzene	9.857	180	665	0.013	ppbV #		84
83) naphthalene	9.918	128	1960	0.016	ppbV #		94
84) 1,2,3-trichlorobenzene	10.053	180	635	0.014	ppbV #		83
85) hexachlorobutadiene	10.098	225	595	0.017	ppbV #		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221887_Ev2.D
Acq On : 29 Nov 2023 9:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

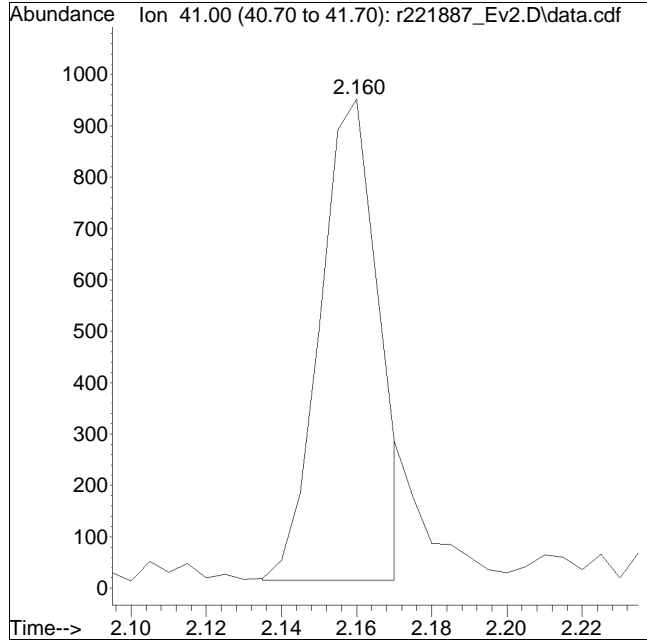
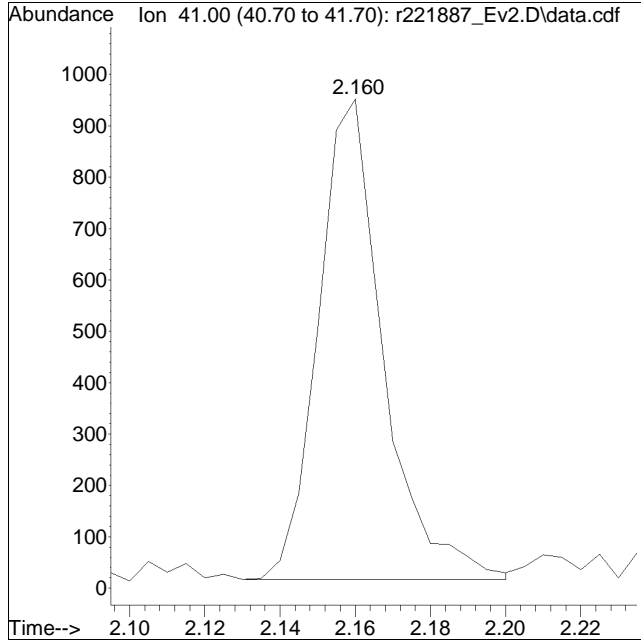
Quant Time: Nov 30 12:45:55 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #2: propylene



Original Peak Response = 1122

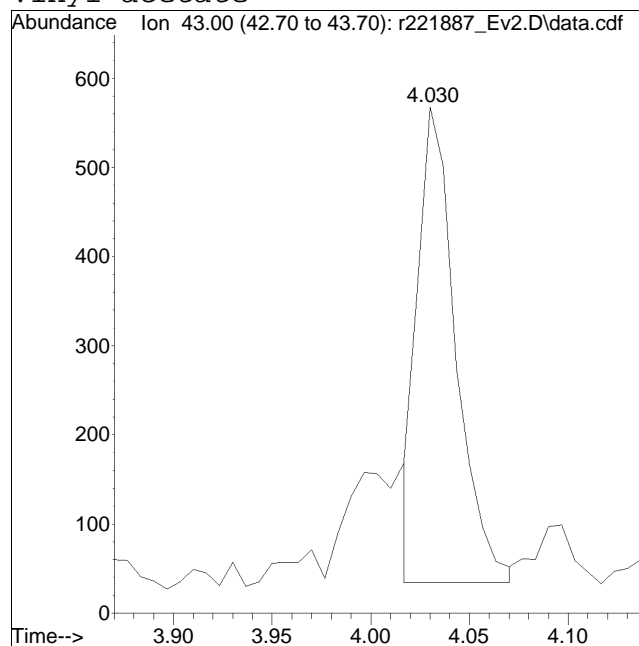
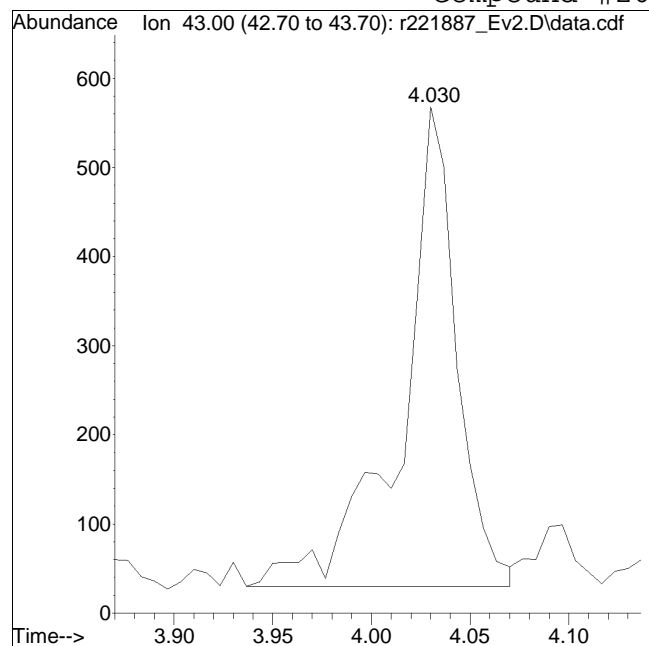
Manual Peak Response = 1012 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #26: vinyl acetate



Original Peak Response = 1053

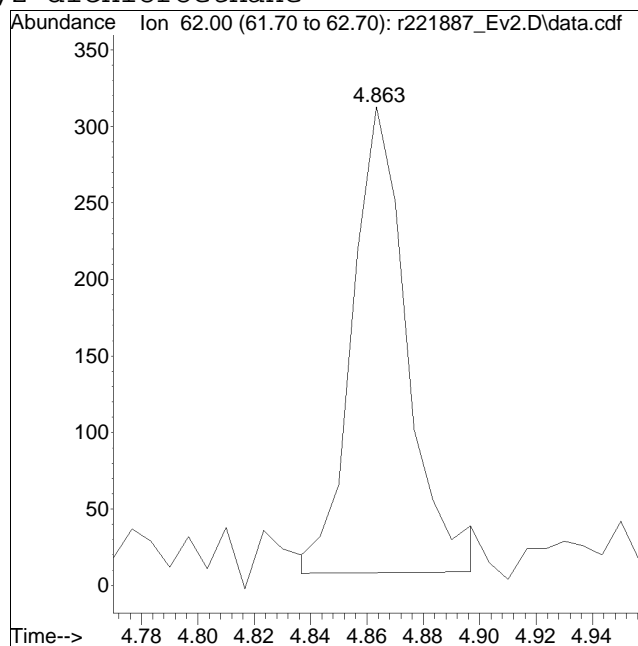
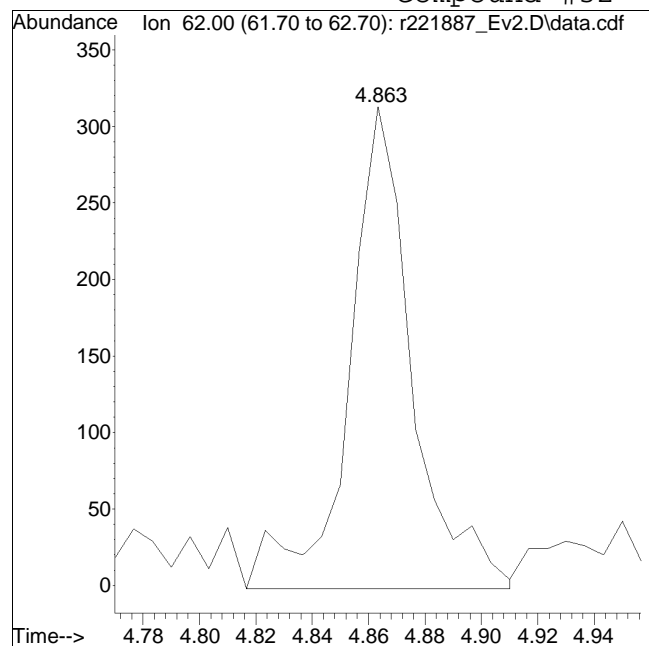
Manual Peak Response = 721 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 494

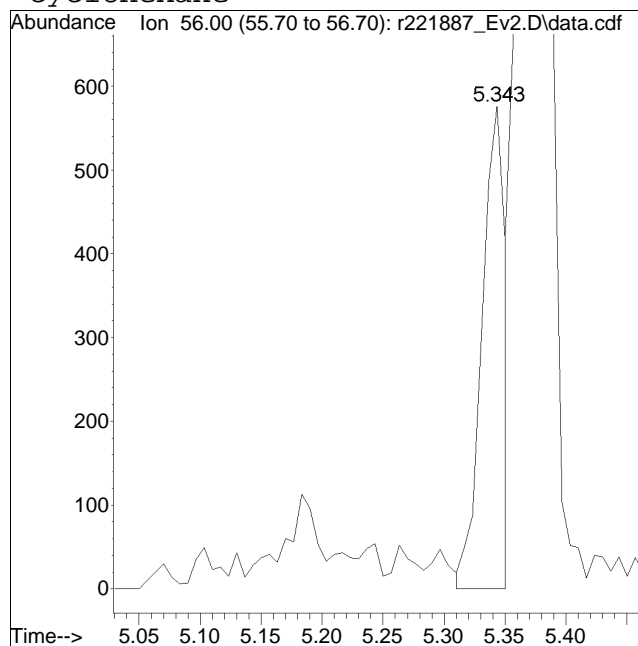
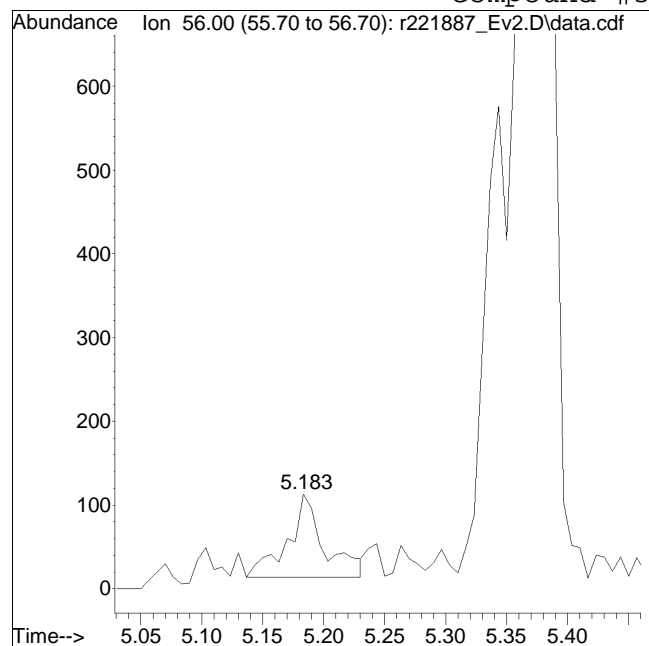
Manual Peak Response = 413 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221887_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 9 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 11/30/2023 12:45 pm

Compound #39: cyclohexane



Original Peak Response = 204

Manual Peak Response = 761 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221888_Ev2.D
 Acq On : 29 Nov 2023 9:38 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	224031	10.000	ppbV	0.00
Standard Area =	222532		Recovery =	100.67%		
33) 1,4-difluorobenzene	5.377	114	828352	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	100.55%		
51) chlorobenzene-D5	7.340	54	85126	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	101.04%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount	10.000	Range	70 - 130	Recovery =	0.00%#	
53) toluene-D8	6.500	98	23242	0.256	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	2.56%#	
67) bromofluorobenzene	8.047	95	7212	0.122	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	1.22%#	
Target Compounds						
						Qvalue
2) propylene	2.160	41	1440M6	0.103	ppbV	
3) dichlorodifluoromethane	2.200	85	1187	0.057	ppbV	96
4) chloromethane	2.305	50	629	0.066	ppbV #	85
5) Freon-114	2.365	85	1654	0.056	ppbV	99
6) vinyl chloride	2.435	62	734	0.055	ppbV	97
7) 1,3-butadiene	2.505	54	527	0.057	ppbV	98
8) bromomethane	2.635	94	587	0.060	ppbV	94
9) chloroethane	2.710	64	320	0.065	ppbV #	68
10) ethanol	2.750	31	2545	0.680	ppbV	98
11) vinyl bromide	2.869	106	586	0.059	ppbV	98
12) acrolein	2.914	56	289	0.070	ppbV #	61
13) acetone	2.977	43	2968	0.402	ppbV #	96
14) trichlorofluoromethane	3.058	101	693	0.058	ppbV	96
15) isopropyl alcohol	3.091	45	2801	0.223	ppbV #	97
16) acrylonitrile	3.190	53	472	0.059	ppbV	96
17) 1,1-dichloroethene	3.355	61	1064	0.050	ppbV	98
18) tertiary butyl alcohol	3.385	59	2012	0.068	ppbV #	86
19) methylene chloride	3.415	49	2028	0.114	ppbV	94
20) 3-chloropropene	3.470	41	1292	0.054	ppbV	97
21) carbon disulfide	3.560	76	2804	0.054	ppbV #	24
22) Freon 113	3.540	101	1740	0.056	ppbV	98
23) trans-1,2-dichloroethene	3.863	61	1411	0.060	ppbV	94
24) 1,1-dichloroethane	3.963	63	1620	0.053	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221888_Ev2.D
 Acq On : 29 Nov 2023 9:38 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	3.997	73	2339	0.054	ppbV	#	90
26) vinyl acetate	4.030	43	1991M6	0.063	ppbV		
27) 2-butanone	4.157	43	2106	0.056	ppbV		99
28) cis-1,2-dichloroethene	4.363	61	1244	0.057	ppbV		94
29) Ethyl Acetate	4.477	61	393	0.067	ppbV		77
30) chloroform	4.510	83	1526	0.053	ppbV		98
31) Tetrahydrofuran	4.710	42	1307	0.056	ppbV		98
32) 1,2-dichloroethane	4.863	62	803	0.052	ppbV		91
34) hexane	4.470	57	1672	0.057	ppbV	#	68
36) 1,1,1-trichloroethane	4.990	97	1385	0.056	ppbV	#	96
37) benzene	5.210	78	3525	0.056	ppbV		98
38) carbon tetrachloride	5.283	117	1234	0.053	ppbV	#	98
39) cyclohexane	5.343	56	1663M6	0.051	ppbV		
40) Dibromomethane	5.583	93	998	0.062	ppbV	#	98
41) 1,2-dichloropropane	5.597	63	1194	0.057	ppbV		99
42) bromodichloromethane	5.683	83	1566	0.054	ppbV	#	99
43) 1,4-dioxane	5.723	88	857	0.066	ppbV		85
44) trichloroethene	5.710	130	1514	0.055	ppbV		98
45) 2,2,4-trimethylpentane	5.723	57	5114	0.054	ppbV		99
46) heptane	5.843	43	1987	0.054	ppbV	#	94
47) cis-1,3-dichloropropene	6.100	75	1640	0.053	ppbV		98
48) 4-methyl-2-pentanone	6.127	43	2489M6	0.058	ppbV		
49) trans-1,3-dichloropropene	6.340	75	1274	0.051	ppbV		94
50) 1,1,2-trichloroethane	6.420	97	1205	0.052	ppbV		97
52) toluene	6.547	91	4092	0.056	ppbV		99
54) 2-hexanone	6.667	43	2018	0.050	ppbV		99
55) dibromochloromethane	6.740	129	1724	0.055	ppbV		97
56) 1,2-dibromoethane	6.853	107	1790	0.053	ppbV		99
57) tetrachloroethene	7.060	166	1566	0.051	ppbV		99
58) 1,1,1,2-tetrachloroethane	7.353	131	1579	0.062	ppbV		97
59) chlorobenzene	7.367	112	3253	0.053	ppbV		99
60) ethylbenzene	7.533	91	4592	0.051	ppbV		99
61) m+p-xylene	7.613	91	7471	0.102	ppbV		97
62) bromoform	7.653	173	1283	0.053	ppbV		98
63) styrene	7.780	104	2662	0.042	ppbV		98
64) 1,1,2,2-tetrachloroethane	7.827	83	2634	0.052	ppbV		99
65) o-xylene	7.827	91	3768	0.052	ppbV		96
66) 1,2,3-Trichloropropane	7.887	75	1948	0.050	ppbV	#	90
68) isopropylbenzene	8.107	105	4674	0.049	ppbV		98
69) Bromobenzene	8.153	77	2603	0.049	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221888_Ev2.D
 Acq On : 29 Nov 2023 9:38 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.05
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:01 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

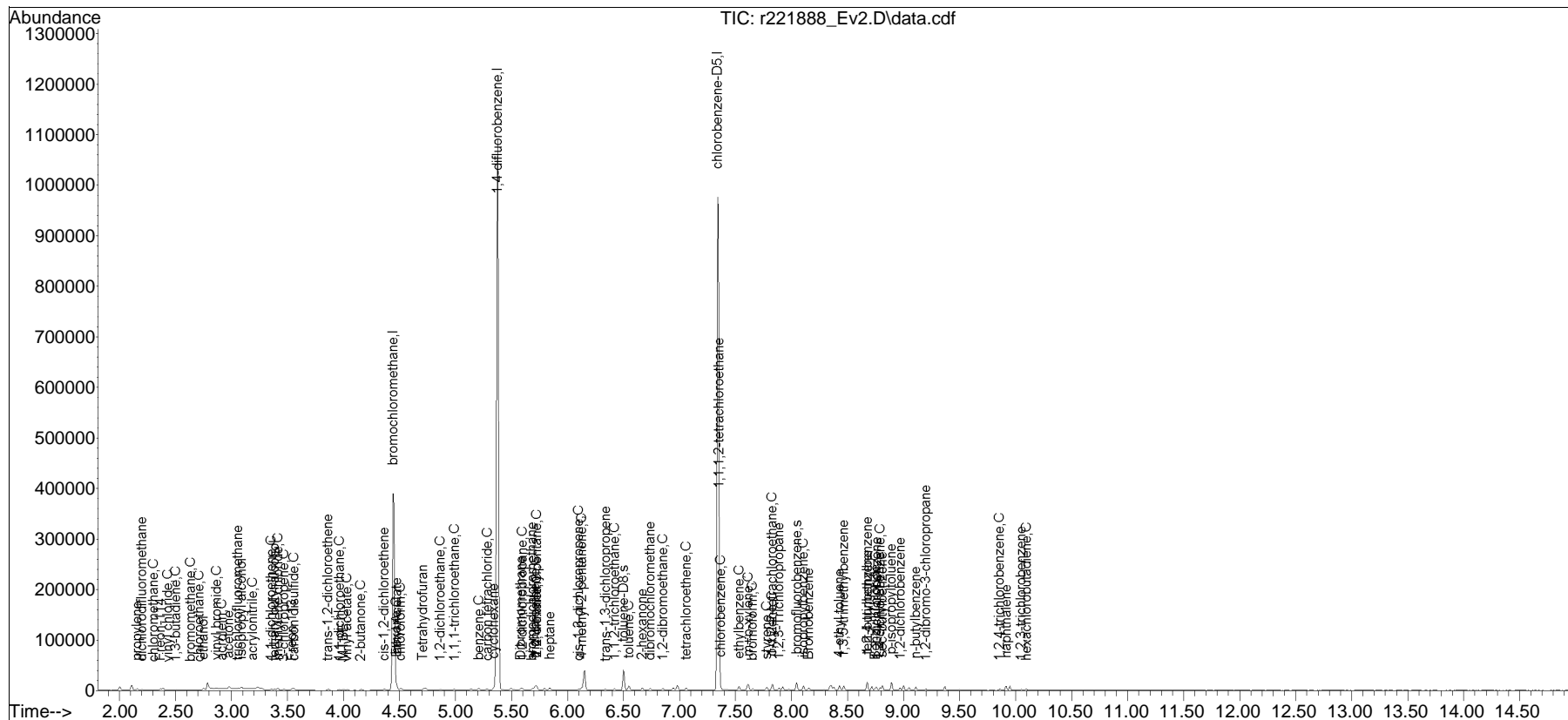
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	4772	0.048	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	3833	0.043	ppbV	97
72) tert-butylbenzene	8.677	119	4393	0.049	ppbV	99
73) 1,2,4-trimethylbenzene	8.677	105	4099	0.047	ppbV	94
74) Benzyl Chloride	8.750	91	1836	0.038	ppbV	92
75) 1,3-dichlorobenzene	8.757	146	3048	0.045	ppbV	95
76) 1,4-dichlorobenzene	8.790	146	2994M3	0.045	ppbV	
77) sec-butylbenzene	8.810	105	5669	0.046	ppbV	99
78) p-isopropyltoluene	8.890	119	4973	0.046	ppbV	100
79) 1,2-dichlorobenzene	8.970	146	2861	0.045	ppbV	96
80) n-butylbenzene	9.110	91	3978	0.042	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	986	0.047	ppbV	88
82) 1,2,4-trichlorobenzene	9.857	180	1771	0.034	ppbV #	90
83) naphthalene	9.918	128	4797	0.039	ppbV #	96
84) 1,2,3-trichlorobenzene	10.053	180	1477	0.032	ppbV #	91
85) hexachlorobutadiene	10.098	225	1415	0.040	ppbV #	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221888_Ev2.D
Acq On : 29 Nov 2023 9:38 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

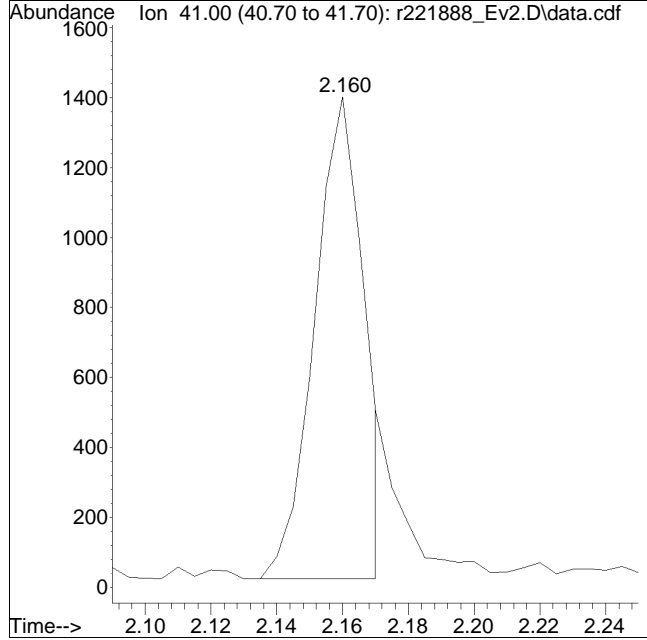
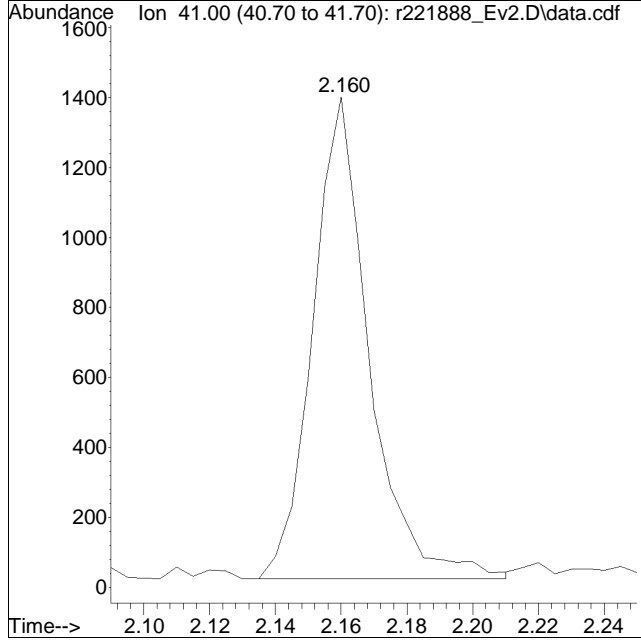
Quant Time: Nov 30 12:46:01 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 1644

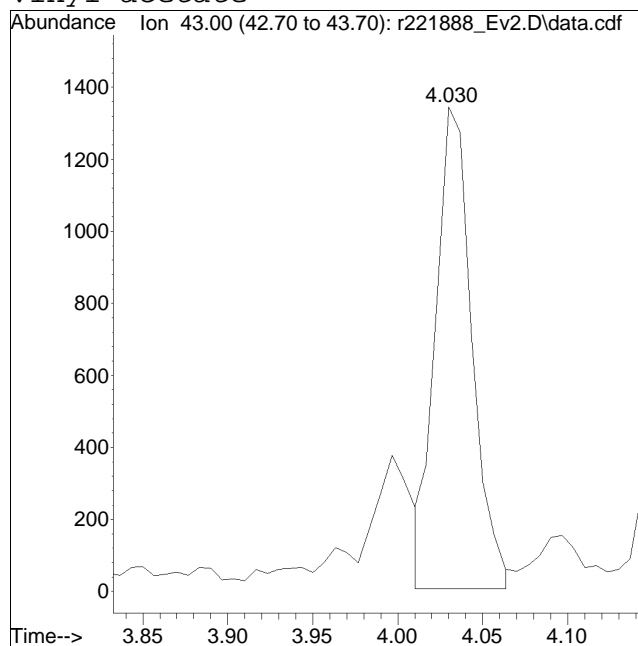
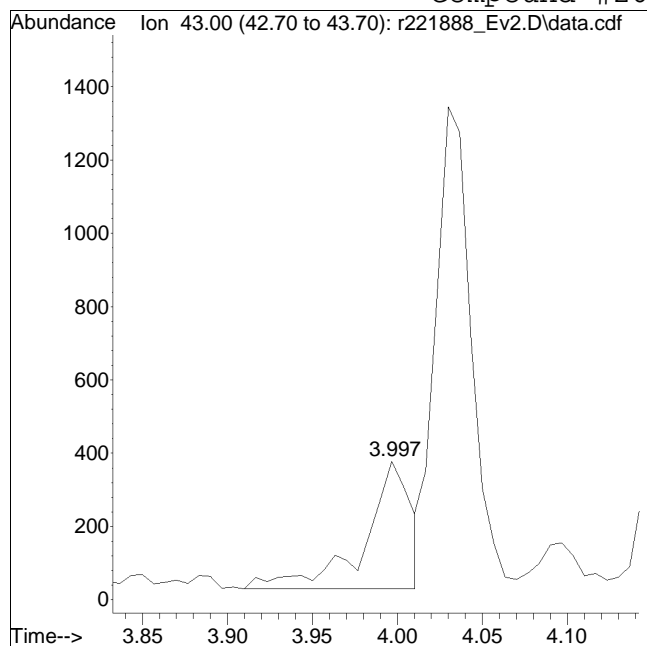
Manual Peak Response = 1440 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #26: vinyl acetate



Original Peak Response = 669

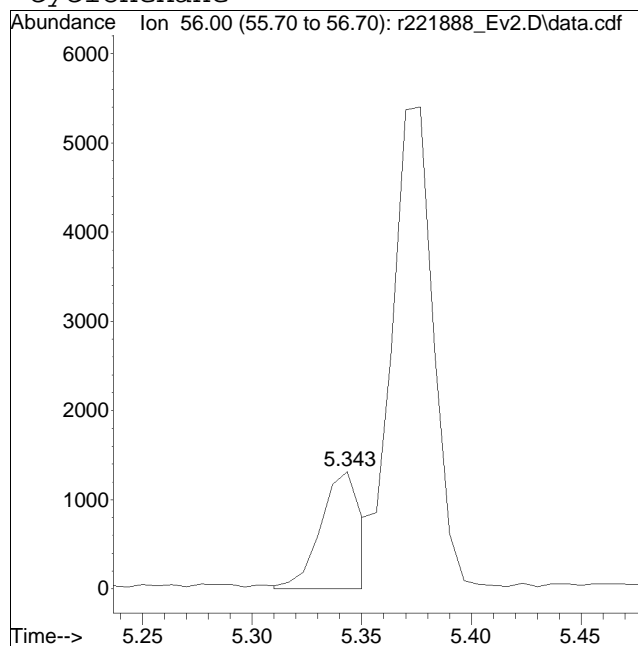
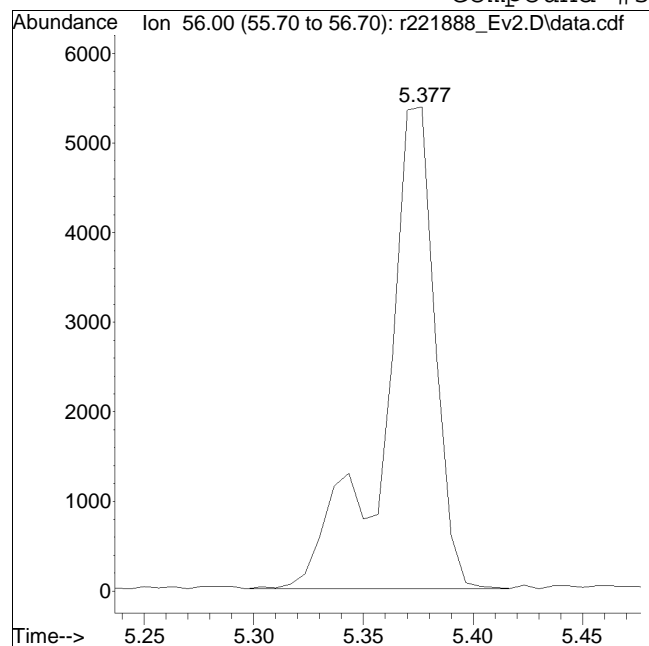
Manual Peak Response = 1991 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #39: cyclohexane



Original Peak Response = 8617

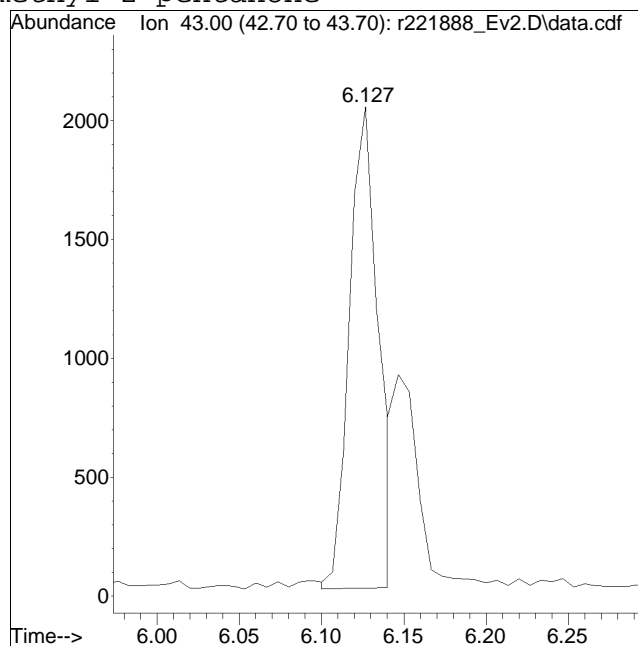
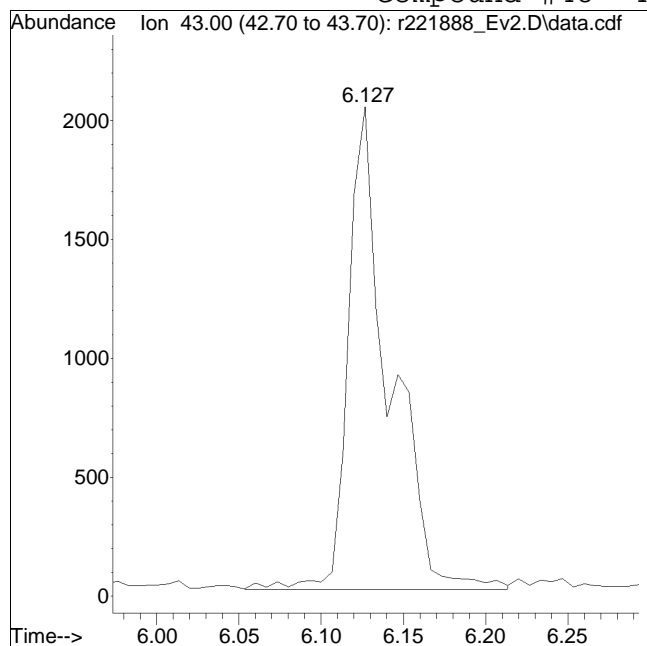
Manual Peak Response = 1663 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 3542

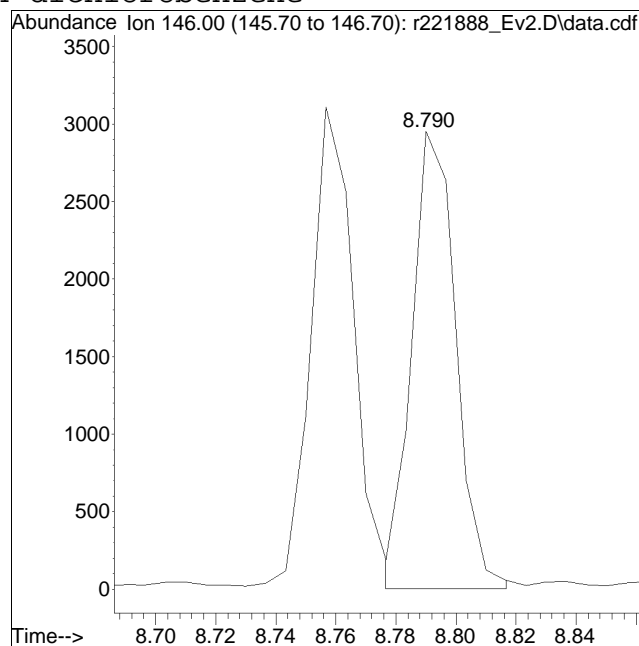
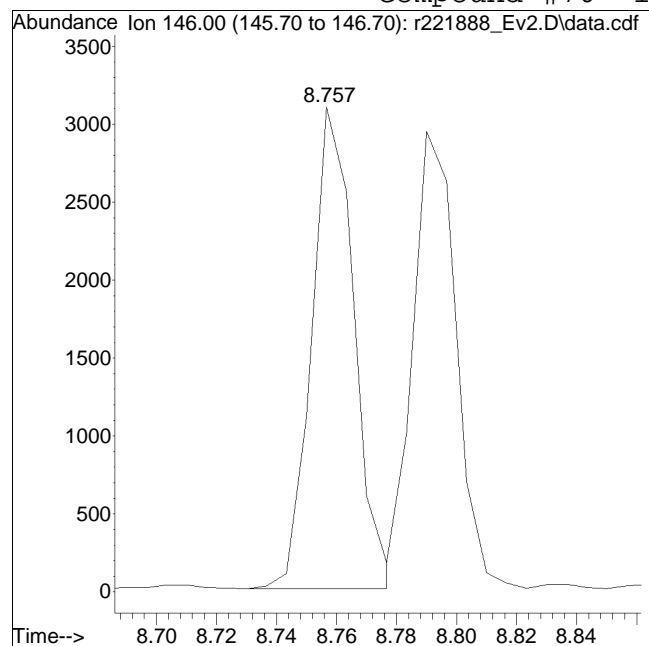
Manual Peak Response = 2489 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221888_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:9: 8 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 11/30/2023 12:46 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 3048

Manual Peak Response = 2994 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221889_Ev2.D
 Acq On : 29 Nov 2023 10:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	224826	10.000	ppbV	0.00
Standard Area =	222532		Recovery =	101.03%		
33) 1,4-difluorobenzene	5.370	114	829164	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	100.65%		
51) chlorobenzene-D5	7.340	54	85599	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	101.60%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0d	0.000	ppbV	
Spiked Amount	10.000	Range	70 - 130	Recovery =	0.00%#	
53) toluene-D8	6.500	98	23309	0.255	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	2.55%#	
67) bromofluorobenzene	8.040	95	7258	0.123	ppbV	0.00
Spiked Amount	10.000	Range	70 - 130	Recovery =	1.23%#	
Target Compounds						
						Qvalue
2) propylene	2.155	41	2176M6	0.156	ppbV	
3) dichlorodifluoromethane	2.195	85	2110	0.101	ppbV	100
4) chloromethane	2.300	50	1203	0.126	ppbV	93
5) Freon-114	2.360	85	3194	0.109	ppbV	99
6) vinyl chloride	2.430	62	1403	0.105	ppbV	95
7) 1,3-butadiene	2.500	54	972	0.104	ppbV	96
8) bromomethane	2.625	94	1094	0.112	ppbV	96
9) chloroethane	2.700	64	581	0.117	ppbV #	79
10) ethanol	2.745	31	4563	1.215	ppbV	97
11) vinyl bromide	2.860	106	1079	0.108	ppbV	93
12) acrolein	2.908	56	538	0.130	ppbV #	52
13) acetone	2.971	43	5854	0.789	ppbV #	98
14) trichlorofluoromethane	3.052	101	1306	0.108	ppbV	100
15) isopropyl alcohol	3.082	45	5144	0.408	ppbV	97
16) acrylonitrile	3.187	53	934	0.117	ppbV	95
17) 1,1-dichloroethene	3.350	61	2103	0.099	ppbV	98
18) tertiary butyl alcohol	3.375	59	3693	0.124	ppbV #	82
19) methylene chloride	3.405	49	3443	0.193	ppbV	100
20) 3-chloropropene	3.465	41	2524	0.105	ppbV	98
21) carbon disulfide	3.555	76	5662	0.110	ppbV #	63
22) Freon 113	3.535	101	3309	0.107	ppbV	98
23) trans-1,2-dichloroethene	3.857	61	2601	0.110	ppbV	100
24) 1,1-dichloroethane	3.957	63	3217	0.104	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221889_Ev2.D
 Acq On : 29 Nov 2023 10:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
25) MTBE	3.990	73	4627	0.106	ppbV	#	93
26) vinyl acetate	4.030	43	3864	0.123	ppbV	#	93
27) 2-butanone	4.150	43	4179	0.111	ppbV		97
28) cis-1,2-dichloroethene	4.363	61	2284	0.104	ppbV		98
29) Ethyl Acetate	4.470	61	665	0.113	ppbV		89
30) chloroform	4.503	83	3015	0.104	ppbV		96
31) Tetrahydrofuran	4.703	42	2420	0.103	ppbV		92
32) 1,2-dichloroethane	4.863	62	1604M4	0.104	ppbV		
34) hexane	4.463	57	3324	0.113	ppbV	#	68
36) 1,1,1-trichloroethane	4.990	97	2626	0.106	ppbV		94
37) benzene	5.203	78	6815	0.109	ppbV		98
38) carbon tetrachloride	5.277	117	2481	0.106	ppbV		98
39) cyclohexane	5.337	56	3699	0.113	ppbV		98
40) Dibromomethane	5.583	93	1874	0.116	ppbV	#	97
41) 1,2-dichloropropane	5.597	63	2223	0.106	ppbV		98
42) bromodichloromethane	5.683	83	3192	0.110	ppbV		98
43) 1,4-dioxane	5.717	88	1593	0.123	ppbV	#	81
44) trichloroethene	5.703	130	2978	0.107	ppbV		97
45) 2,2,4-trimethylpentane	5.723	57	10021	0.106	ppbV		99
46) heptane	5.837	43	3874	0.106	ppbV		99
47) cis-1,3-dichloropropene	6.100	75	3113	0.101	ppbV		98
48) 4-methyl-2-pentanone	6.120	43	4787M6	0.112	ppbV		
49) trans-1,3-dichloropropene	6.333	75	2443	0.099	ppbV		96
50) 1,1,2-trichloroethane	6.420	97	2371	0.102	ppbV		98
52) toluene	6.547	91	8080	0.109	ppbV		99
54) 2-hexanone	6.667	43	4109	0.101	ppbV	#	96
55) dibromochloromethane	6.740	129	3308	0.104	ppbV		99
56) 1,2-dibromoethane	6.847	107	3530	0.104	ppbV		100
57) tetrachloroethene	7.060	166	3208	0.105	ppbV		97
58) 1,1,1,2-tetrachloroethane	7.353	131	2674	0.104	ppbV		97
59) chlorobenzene	7.360	112	6320	0.102	ppbV	#	90
60) ethylbenzene	7.527	91	9203	0.101	ppbV		96
61) m+p-xylene	7.607	91	14911	0.203	ppbV		94
62) bromoform	7.653	173	2487	0.103	ppbV		100
63) styrene	7.780	104	5382	0.085	ppbV		99
64) 1,1,2,2-tetrachloroethane	7.827	83	5097	0.100	ppbV		98
65) o-xylene	7.827	91	7490	0.103	ppbV		99
66) 1,2,3-Trichloropropane	7.887	75	3864	0.098	ppbV		97
68) isopropylbenzene	8.107	105	9250	0.097	ppbV		99
69) Bromobenzene	8.153	77	5354	0.100	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221889_Ev2.D
 Acq On : 29 Nov 2023 10:09 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.1
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:07 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

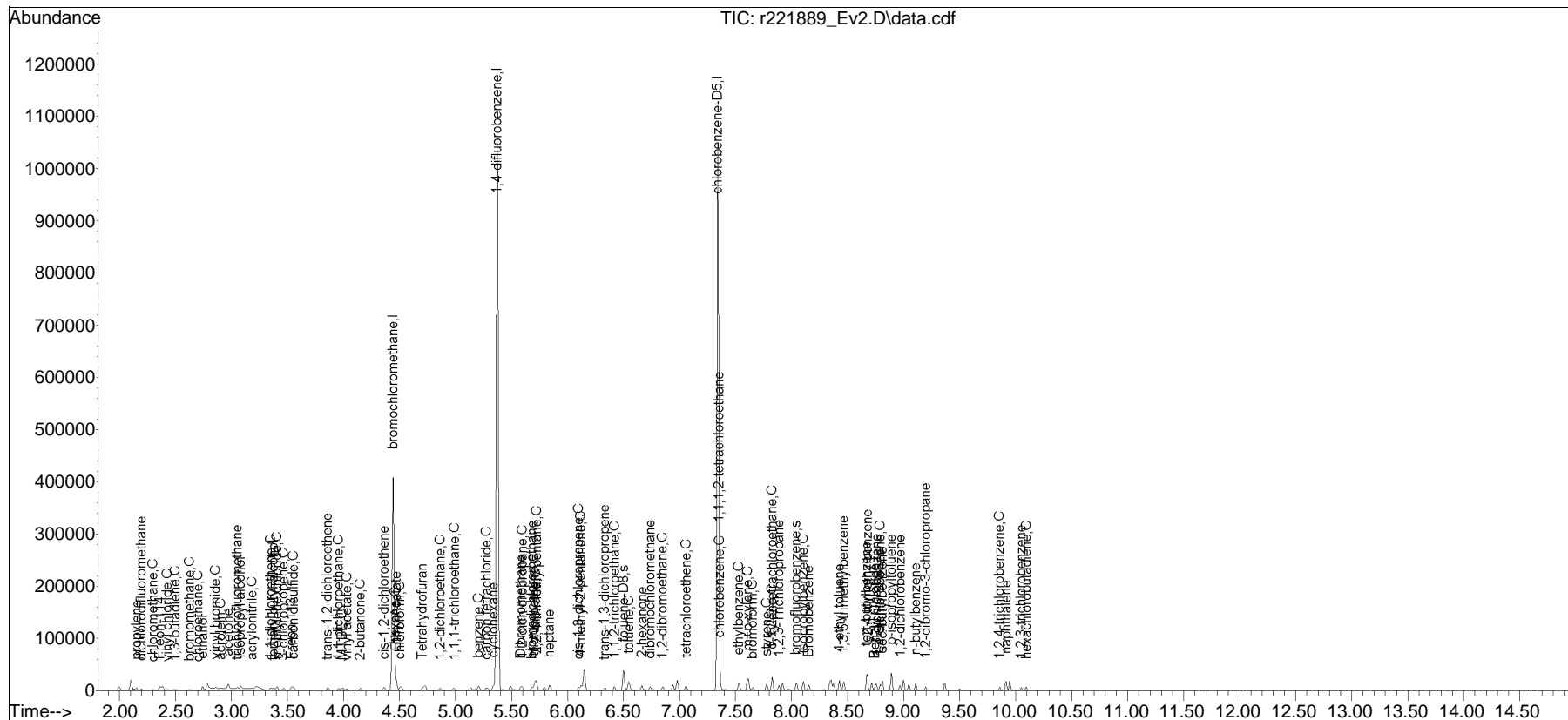
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	9545	0.096	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	7660	0.085	ppbV	97
72) tert-butylbenzene	8.670	119	8893	0.099	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	8175	0.094	ppbV	97
74) Benzyl Chloride	8.743	91	3688	0.075	ppbV	99
75) 1,3-dichlorobenzene	8.757	146	6204	0.091	ppbV	97
76) 1,4-dichlorobenzene	8.790	146	5982	0.089	ppbV	97
77) sec-butylbenzene	8.810	105	11302	0.092	ppbV	99
78) p-isopropyltoluene	8.890	119	9977	0.091	ppbV	96
79) 1,2-dichlorobenzene	8.970	146	5767	0.090	ppbV	98
80) n-butylbenzene	9.110	91	8032	0.084	ppbV	98
81) 1,2-dibromo-3-chloropr...	9.197	75	1851	0.088	ppbV	93
82) 1,2,4-trichlorobenzene	9.857	180	3498	0.067	ppbV #	94
83) naphthalene	9.918	128	9467	0.076	ppbV	97
84) 1,2,3-trichlorobenzene	10.053	180	2793	0.061	ppbV #	93
85) hexachlorobutadiene	10.098	225	2718	0.076	ppbV #	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221889_Ev2.D
Acq On : 29 Nov 2023 10:09 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

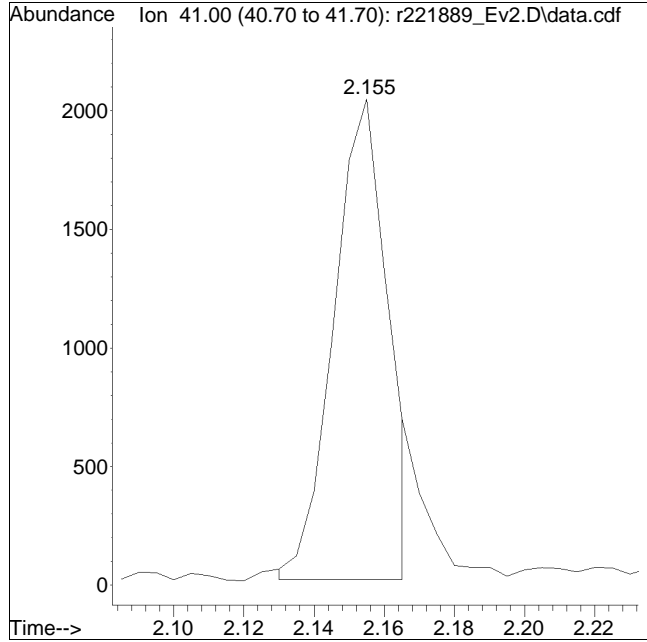
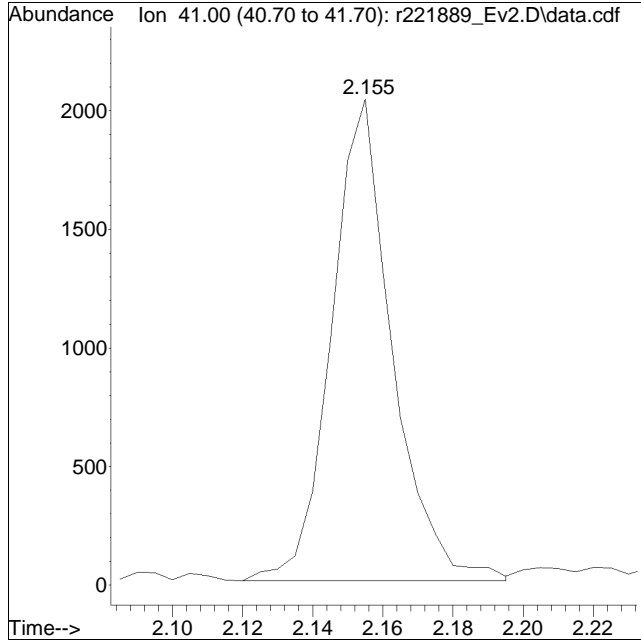
Quant Time: Nov 30 12:46:07 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221889_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 2443

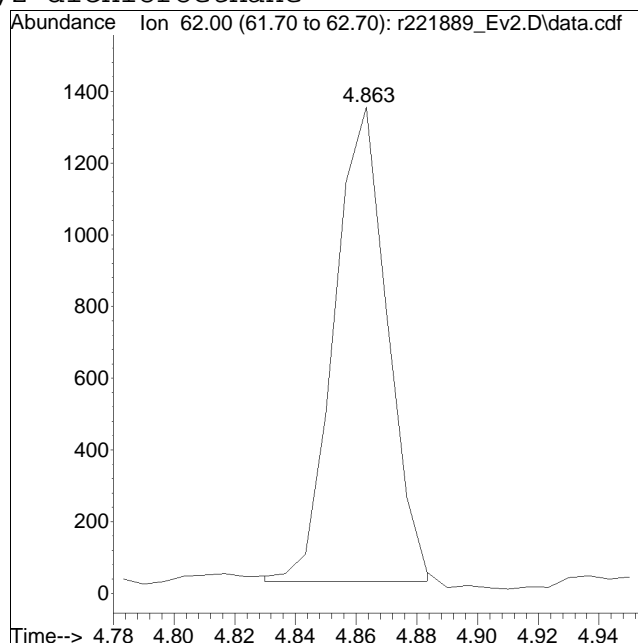
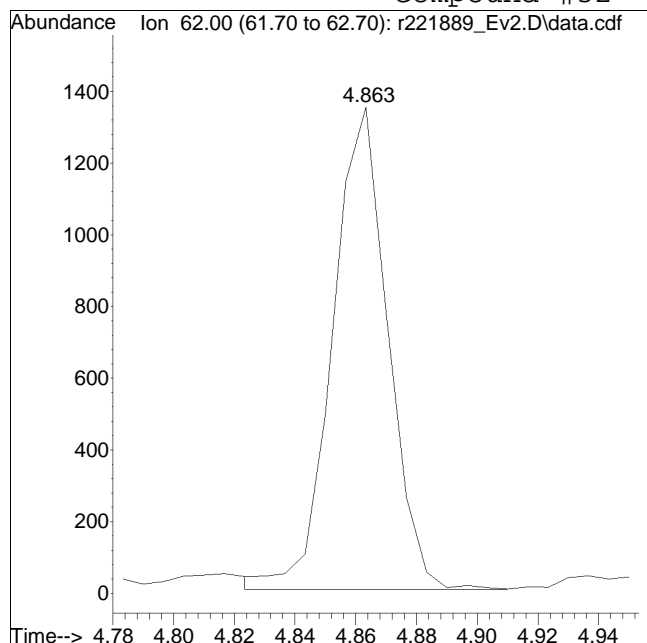
Manual Peak Response = 2176 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221889_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 1694

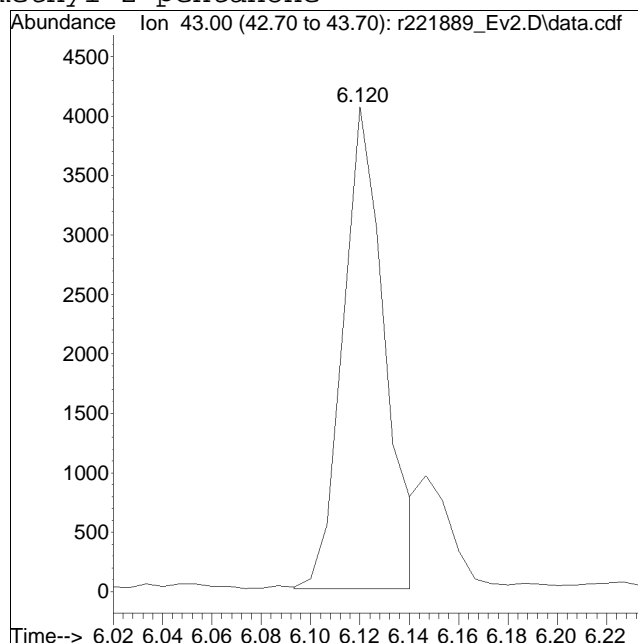
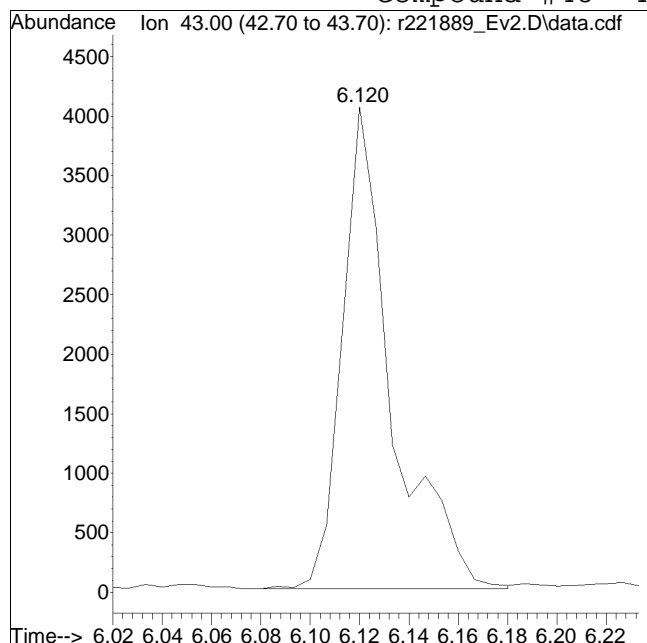
Manual Peak Response = 1604 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221889_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 5655

Manual Peak Response = 4787 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221890_Ev2.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	222425	10.000	ppbV	0.00
Standard Area =	222532		Recovery =	99.95%		
33) 1,4-difluorobenzene	5.377	114	818402	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	99.34%		
51) chlorobenzene-D5	7.340	54	85874	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	101.93%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	230355	9.937	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	99.37%		
53) toluene-D8	6.500	98	883668	9.635	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	96.35%		
67) bromofluorobenzene	8.040	95	559684	9.420	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	94.20%		
Target Compounds						
						Qvalue
2) propylene	2.150	41	3628M6	0.262	ppbV	
3) dichlorodifluoromethane	2.195	85	4646	0.225	ppbV	99
4) chloromethane	2.300	50	2194	0.232	ppbV	97
5) Freon-114	2.360	85	6627	0.228	ppbV	100
6) vinyl chloride	2.430	62	2944	0.223	ppbV	96
7) 1,3-butadiene	2.500	54	2128	0.230	ppbV	96
8) bromomethane	2.630	94	2208	0.228	ppbV	100
9) chloroethane	2.705	64	1137	0.232	ppbV	94
10) ethanol	2.745	31	6743	1.814	ppbV	98
11) vinyl bromide	2.863	106	2296	0.233	ppbV	96
12) acrolein	2.911	56	947	0.232	ppbV #	60
13) acetone	2.971	43	8710	1.187	ppbV #	98
14) trichlorofluoromethane	3.055	101	2656	0.223	ppbV	100
15) isopropyl alcohol	3.082	45	7214	0.579	ppbV	99
16) acrylonitrile	3.187	53	1719	0.218	ppbV	97
17) 1,1-dichloroethene	3.355	61	3982	0.190	ppbV	95
18) tertiary butyl alcohol	3.380	59	5970	0.203	ppbV #	87
19) methylene chloride	3.410	49	4417	0.251	ppbV	96
20) 3-chloropropene	3.465	41	5258	0.221	ppbV	99
21) carbon disulfide	3.555	76	11458	0.224	ppbV #	82
22) Freon 113	3.540	101	6772	0.221	ppbV	99
23) trans-1,2-dichloroethene	3.863	61	5251	0.224	ppbV #	87
24) 1,1-dichloroethane	3.957	63	6668	0.219	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221890_Ev2.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.990	73	9441	0.219	ppbV	97
26) vinyl acetate	4.030	43	6536	0.210	ppbV	96
27) 2-butanone	4.150	43	8270	0.222	ppbV	97
28) cis-1,2-dichloroethene	4.363	61	4798	0.220	ppbV	97
29) Ethyl Acetate	4.470	61	1244	0.213	ppbV	96
30) chloroform	4.510	83	6250	0.218	ppbV	98
31) Tetrahydrofuran	4.703	42	5112	0.220	ppbV	94
32) 1,2-dichloroethane	4.863	62	3847	0.252	ppbV	99
34) hexane	4.470	57	6579	0.227	ppbV	97
36) 1,1,1-trichloroethane	4.990	97	5411	0.221	ppbV	95
37) benzene	5.203	78	13395	0.217	ppbV	99
38) carbon tetrachloride	5.277	117	5016	0.217	ppbV	96
39) cyclohexane	5.337	56	7170	0.223	ppbV	98
40) Dibromomethane	5.583	93	3646	0.229	ppbV #	99
41) 1,2-dichloropropane	5.597	63	4512	0.218	ppbV	100
42) bromodichloromethane	5.683	83	6438	0.225	ppbV	98
43) 1,4-dioxane	5.710	88	3216	0.251	ppbV	83
44) trichloroethene	5.703	130	5960	0.217	ppbV	99
45) 2,2,4-trimethylpentane	5.723	57	20819	0.224	ppbV	99
46) heptane	5.837	43	8039	0.223	ppbV	99
47) cis-1,3-dichloropropene	6.100	75	6538	0.216	ppbV	98
48) 4-methyl-2-pentanone	6.120	43	9322M6	0.222	ppbV	
49) trans-1,3-dichloropropene	6.333	75	5171	0.212	ppbV	99
50) 1,1,2-trichloroethane	6.420	97	4837	0.212	ppbV	98
52) toluene	6.547	91	15903	0.214	ppbV	99
54) 2-hexanone	6.660	43	8840	0.216	ppbV	98
55) dibromochloromethane	6.740	129	6938	0.217	ppbV	99
56) 1,2-dibromoethane	6.847	107	7239	0.212	ppbV	100
57) tetrachloroethene	7.060	166	6466	0.210	ppbV	99
58) 1,1,1,2-tetrachloroethane	7.353	131	5662	0.219	ppbV	99
59) chlorobenzene	7.360	112	13047	0.211	ppbV #	90
60) ethylbenzene	7.527	91	18924	0.207	ppbV	94
61) m+p-xylene	7.613	91	30676	0.416	ppbV	98
62) bromoform	7.653	173	5109	0.211	ppbV	99
63) styrene	7.780	104	12447	0.196	ppbV	99
64) 1,1,2,2-tetrachloroethane	7.827	83	10552	0.206	ppbV	99
65) o-xylene	7.827	91	15438	0.211	ppbV	97
66) 1,2,3-Trichloropropane	7.887	75	8038	0.204	ppbV	99
68) isopropylbenzene	8.107	105	19891	0.208	ppbV	99
69) Bromobenzene	8.153	77	11143	0.207	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221890_Ev2.D
 Acq On : 29 Nov 2023 10:39 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.2
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:13 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

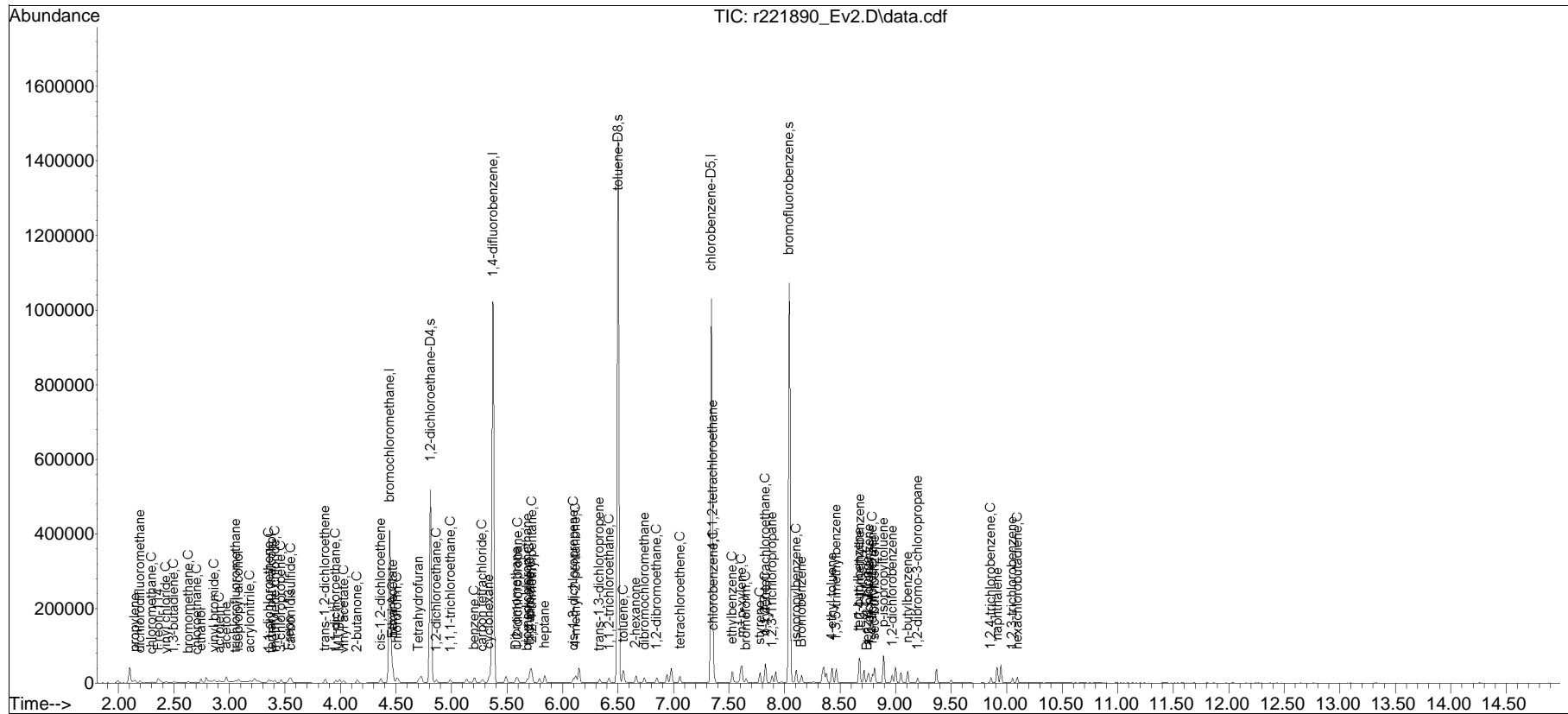
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	20446	0.206	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	18061	0.201	ppbV	99
72) tert-butylbenzene	8.670	119	18980	0.211	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	17832	0.204	ppbV	97
74) Benzyl Chloride	8.743	91	7866	0.160	ppbV	97
75) 1,3-dichlorobenzene	8.757	146	13166	0.192	ppbV	95
76) 1,4-dichlorobenzene	8.790	146	12817	0.191	ppbV	95
77) sec-butylbenzene	8.810	105	24726	0.200	ppbV	99
78) p-isopropyltoluene	8.890	119	22337	0.204	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	12387	0.192	ppbV	98
80) n-butylbenzene	9.110	91	18183	0.190	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	4065	0.192	ppbV	92
82) 1,2,4-trichlorobenzene	9.857	180	8221	0.156	ppbV #	94
83) naphthalene	9.918	128	20819	0.167	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	6835	0.149	ppbV #	94
85) hexachlorobutadiene	10.098	225	6729	0.187	ppbV #	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221890_Ev2.D
Acq On : 29 Nov 2023 10:39 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

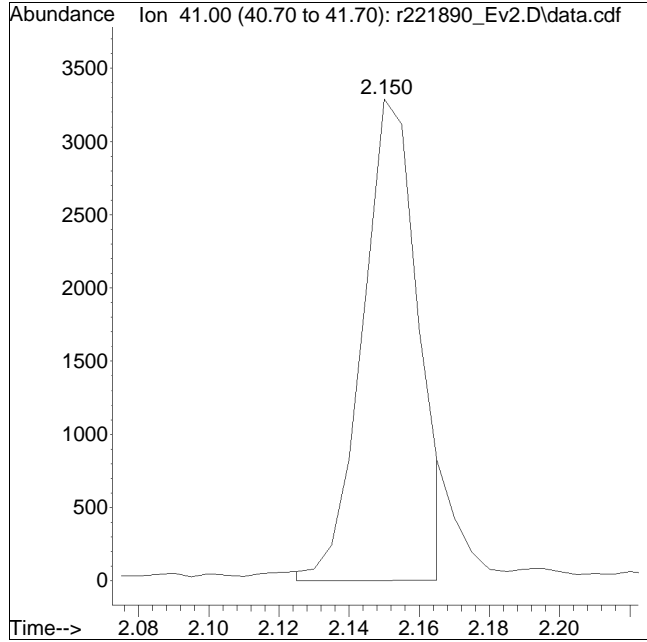
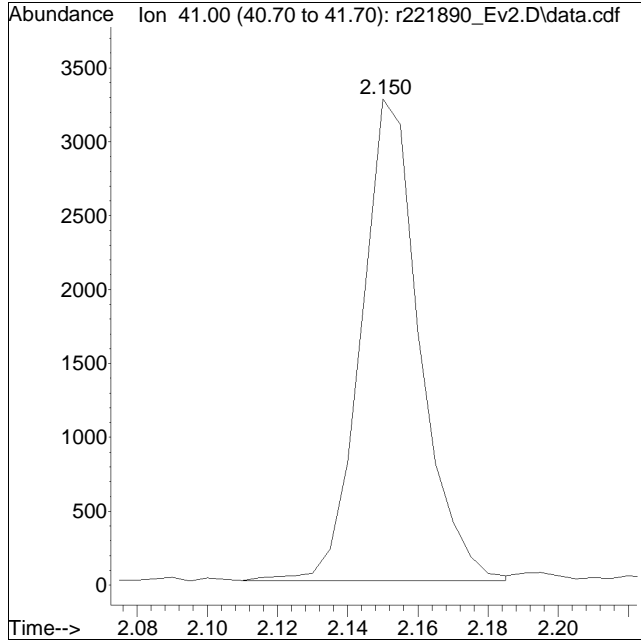
Quant Time: Nov 30 12:46:13 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221890_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 3777

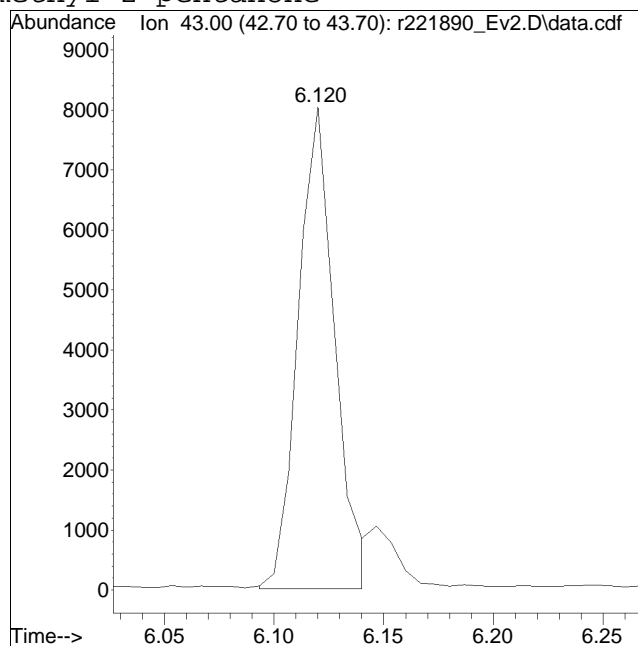
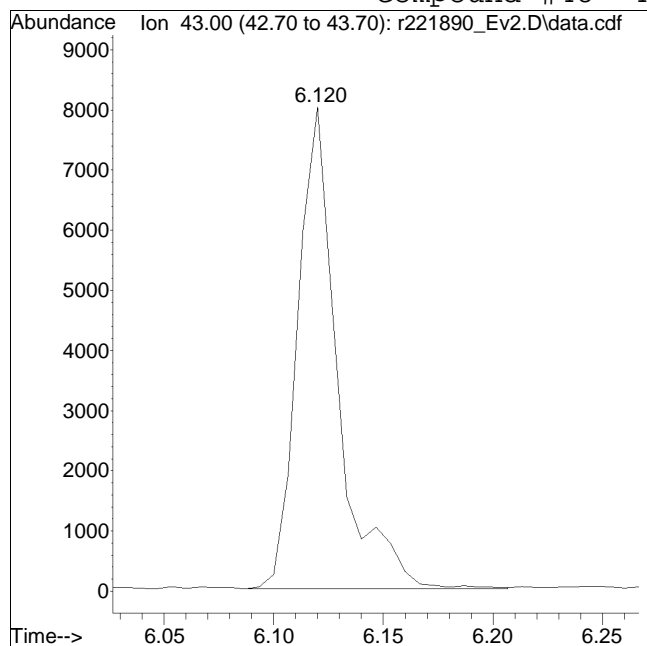
Manual Peak Response = 3628 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221890_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:0: 9 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 10237

Manual Peak Response = 9322 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221891_Ev2.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	223382	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 100.38%			
33) 1,4-difluorobenzene	5.370	114	815860	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 99.03%			
51) chlorobenzene-D5	7.340	54	85256	10.000	ppbV	0.00
Standard Area = 84248			Recovery = 101.20%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	229261	9.921	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.21%			
53) toluene-D8	6.500	98	874969	9.609	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.09%			
67) bromofluorobenzene	8.040	95	541162	9.174	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.74%			
Target Compounds						
						Qvalue
2) propylene	2.155	41	7613M6	0.548	ppbV	
3) dichlorodifluoromethane	2.195	85	11246	0.543	ppbV	99
4) chloromethane	2.300	50	5147	0.541	ppbV	100
5) Freon-114	2.360	85	16031	0.549	ppbV	98
6) vinyl chloride	2.430	62	7009	0.530	ppbV	99
7) 1,3-butadiene	2.500	54	5134	0.552	ppbV	98
8) bromomethane	2.630	94	5214	0.535	ppbV	97
9) chloroethane	2.705	64	2704	0.548	ppbV	98
10) ethanol	2.745	31	11294	3.026	ppbV	99
11) vinyl bromide	2.860	106	5481	0.553	ppbV	99
12) acrolein	2.911	56	2274	0.554	ppbV #	63
13) acetone	2.968	43	21067	2.859	ppbV	99
14) trichlorofluoromethane	3.052	101	6478	0.541	ppbV	99
15) isopropyl alcohol	3.082	45	18134	1.449	ppbV	99
16) acrylonitrile	3.184	53	4414	0.557	ppbV	99
17) 1,1-dichloroethene	3.350	61	10927	0.519	ppbV	98
18) tertiary butyl alcohol	3.375	59	15044	0.508	ppbV	95
19) methylene chloride	3.410	49	10166	0.574	ppbV	95
20) 3-chloropropene	3.465	41	12947	0.542	ppbV	99
21) carbon disulfide	3.555	76	28115	0.548	ppbV #	93
22) Freon 113	3.535	101	16611	0.540	ppbV	98
23) trans-1,2-dichloroethene	3.857	61	12843	0.546	ppbV	99
24) 1,1-dichloroethane	3.957	63	16362	0.535	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221891_Ev2.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.990	73	23528	0.544	ppbV	100
26) vinyl acetate	4.030	43	17113	0.546	ppbV	95
27) 2-butanone	4.150	43	20395	0.545	ppbV	100
28) cis-1,2-dichloroethene	4.363	61	11720	0.536	ppbV	98
29) Ethyl Acetate	4.470	61	3197	0.546	ppbV	84
30) chloroform	4.503	83	15291	0.531	ppbV	99
31) Tetrahydrofuran	4.703	42	12528	0.537	ppbV	97
32) 1,2-dichloroethane	4.863	62	8614M4	0.561	ppbV	
34) hexane	4.463	57	16298	0.564	ppbV	89
36) 1,1,1-trichloroethane	4.983	97	13210	0.542	ppbV	99
37) benzene	5.203	78	32959	0.536	ppbV	100
38) carbon tetrachloride	5.277	117	12432	0.541	ppbV	100
39) cyclohexane	5.337	56	17043	0.531	ppbV	99
40) Dibromomethane	5.583	93	8711	0.550	ppbV #	99
41) 1,2-dichloropropane	5.597	63	11113	0.538	ppbV	99
42) bromodichloromethane	5.683	83	15804	0.554	ppbV	100
43) 1,4-dioxane	5.710	88	7283	0.570	ppbV	88
44) trichloroethene	5.703	130	14798	0.541	ppbV	99
45) 2,2,4-trimethylpentane	5.717	57	51368	0.554	ppbV	98
46) heptane	5.837	43	19746	0.549	ppbV	99
47) cis-1,3-dichloropropene	6.100	75	16256	0.538	ppbV	97
48) 4-methyl-2-pentanone	6.113	43	22738M6	0.542	ppbV	
49) trans-1,3-dichloropropene	6.333	75	13020	0.534	ppbV	100
50) 1,1,2-trichloroethane	6.420	97	11998	0.527	ppbV	99
52) toluene	6.547	91	38905	0.528	ppbV	100
54) 2-hexanone	6.660	43	21433	0.527	ppbV	98
55) dibromochloromethane	6.740	129	17097	0.540	ppbV	99
56) 1,2-dibromoethane	6.847	107	17636	0.521	ppbV	100
57) tetrachloroethene	7.060	166	16105	0.528	ppbV	100
58) 1,1,1,2-tetrachloroethane	7.353	131	13778	0.537	ppbV	99
59) chlorobenzene	7.360	112	32458	0.527	ppbV	92
60) ethylbenzene	7.527	91	46686	0.515	ppbV	94
61) m+p-xylene	7.613	91	76904	1.051	ppbV	98
62) bromoform	7.653	173	12796	0.531	ppbV	100
63) styrene	7.780	104	31195	0.495	ppbV	99
64) 1,1,2,2-tetrachloroethane	7.827	83	26327	0.517	ppbV	100
65) o-xylene	7.827	91	38883	0.535	ppbV	97
66) 1,2,3-Trichloropropane	7.887	75	20120	0.514	ppbV	99
68) isopropylbenzene	8.107	105	49642	0.522	ppbV	99
69) Bromobenzene	8.153	77	27702	0.519	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221891_Ev2.D
 Acq On : 29 Nov 2023 11:11 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD0.5
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:19 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

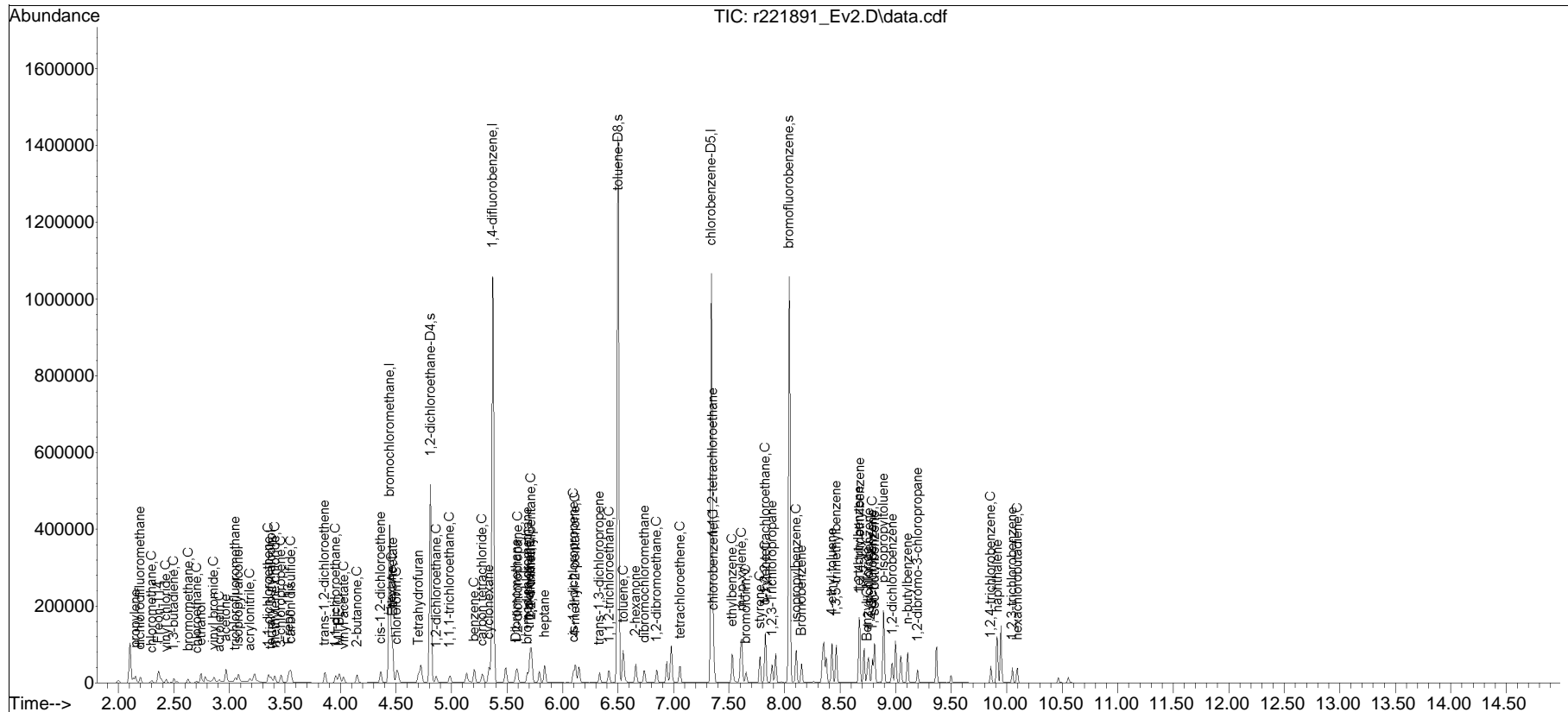
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	51680	0.524	ppbV	99
71) 1,3,5-trimethylbenzene	8.467	105	45735	0.511	ppbV	98
72) tert-butylbenzene	8.670	119	47491	0.531	ppbV	97
73) 1,2,4-trimethylbenzene	8.677	105	45172	0.521	ppbV	99
74) Benzyl Chloride	8.743	91	20652	0.424	ppbV	98
75) 1,3-dichlorobenzene	8.757	146	33888	0.497	ppbV	99
76) 1,4-dichlorobenzene	8.790	146	32678	0.489	ppbV	98
77) sec-butylbenzene	8.810	105	63028	0.513	ppbV	99
78) p-isopropyltoluene	8.890	119	56530	0.520	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	31144	0.486	ppbV	98
80) n-butylbenzene	9.110	91	47057	0.496	ppbV	99
81) 1,2-dibromo-3-chloropr...	9.197	75	10438	0.497	ppbV	93
82) 1,2,4-trichlorobenzene	9.857	180	22187	0.425	ppbV	95
83) naphthalene	9.918	128	58117	0.468	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	19388	0.425	ppbV	96
85) hexachlorobutadiene	10.098	225	17652	0.494	ppbV	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221891_Ev2.D
Acq On : 29 Nov 2023 11:11 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

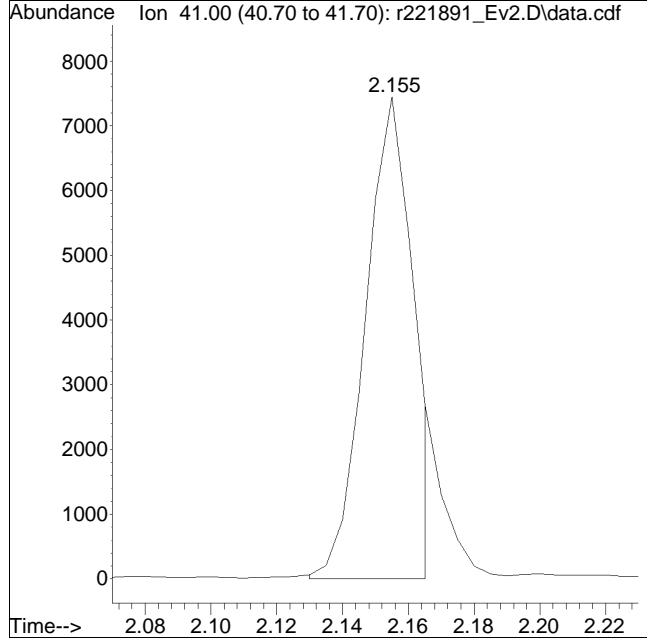
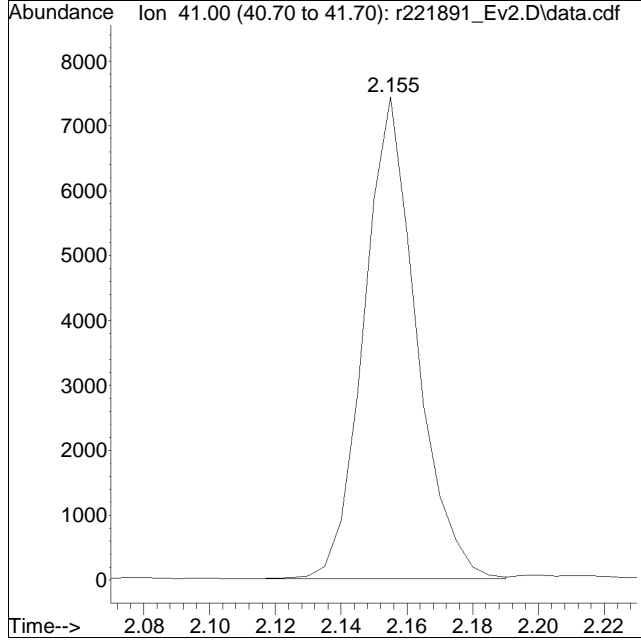
Quant Time: Nov 30 12:46:19 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 8248

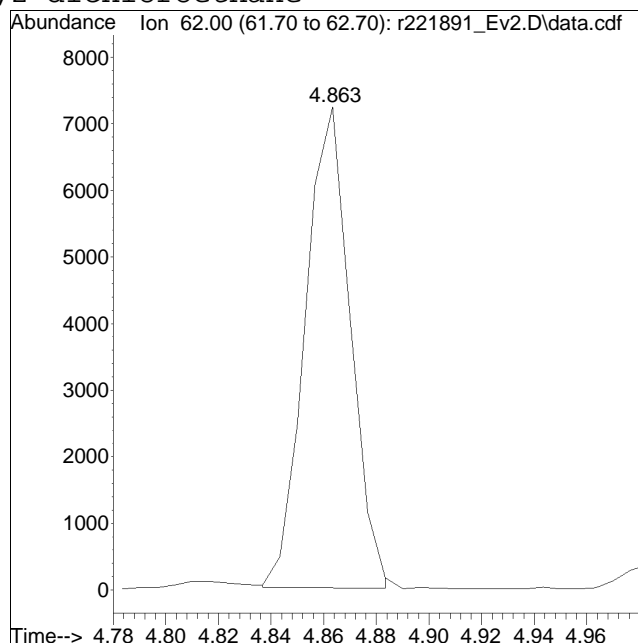
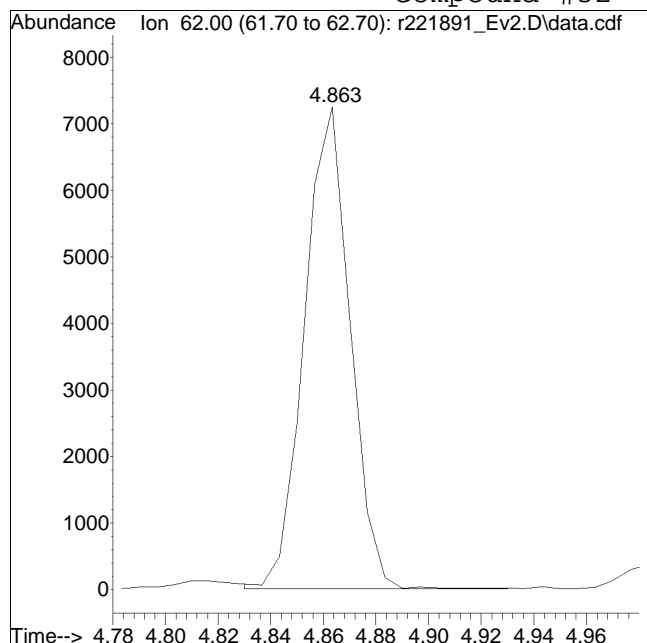
Manual Peak Response = 7613 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 8745

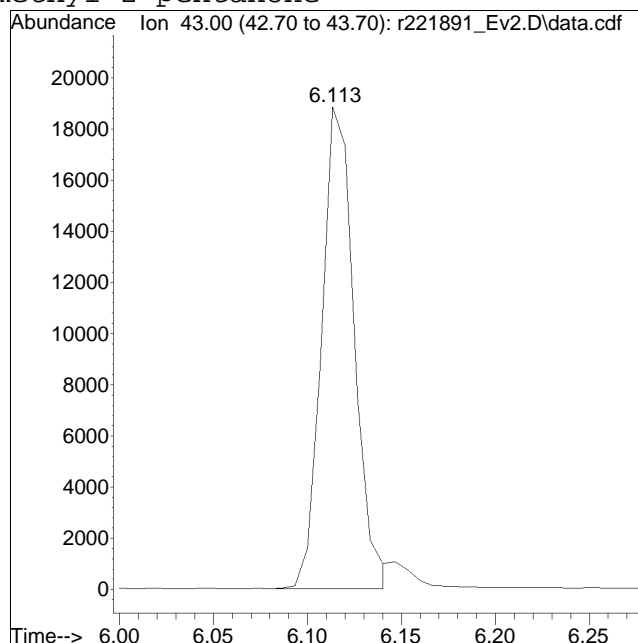
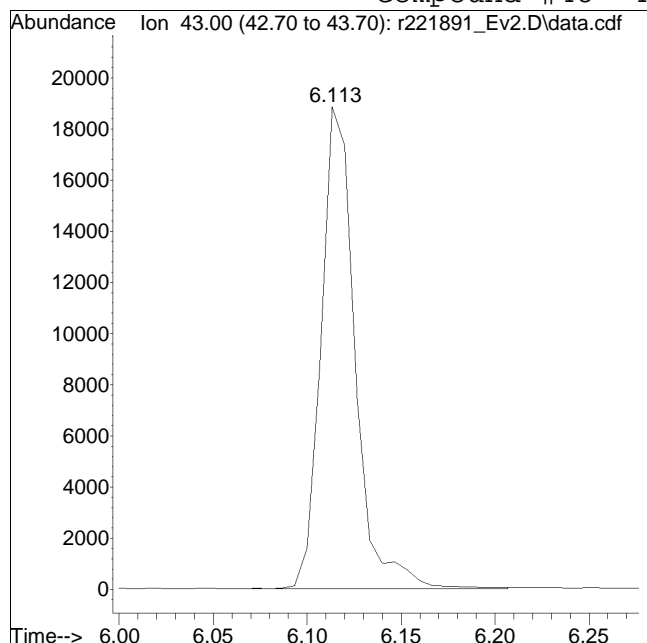
Manual Peak Response = 8614 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221891_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 23763

Manual Peak Response = 22738 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221892_Ev2.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	221404	10.000	ppbV	0.00
Standard Area = 222532			Recovery =		99.49%	
33) 1,4-difluorobenzene	5.377	114	816524	10.000	ppbV	0.00
Standard Area = 823848			Recovery =		99.11%	
51) chlorobenzene-D5	7.340	54	84854	10.000	ppbV	0.00
Standard Area = 84248			Recovery =		100.72%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	230946	9.986	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		99.86%	
53) toluene-D8	6.500	98	895730	9.883	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		98.83%	
67) bromofluorobenzene	8.040	95	560350	9.544	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =		95.44%	
Target Compounds						
						Qvalue
2) propylene	2.155	41	14963M6	1.087	ppbV	
3) dichlorodifluoromethane	2.200	85	20940	1.020	ppbV	100
4) chloromethane	2.300	50	10082	1.070	ppbV	99
5) Freon-114	2.365	85	31768	1.097	ppbV	99
6) vinyl chloride	2.435	62	14099	1.075	ppbV	99
7) 1,3-butadiene	2.505	54	10174	1.104	ppbV	99
8) bromomethane	2.630	94	10469	1.084	ppbV	99
9) chloroethane	2.705	64	5932	1.214	ppbV	96
10) ethanol	2.745	31	17881	4.834	ppbV	99
11) vinyl bromide	2.866	106	10781	1.098	ppbV	98
12) acrolein	2.911	56	4351	1.070	ppbV #	63
13) acetone	2.974	43	41265	5.650	ppbV	100
14) trichlorofluoromethane	3.058	101	12800	1.079	ppbV	99
15) isopropyl alcohol	3.082	45	33325	2.687	ppbV	100
16) acrylonitrile	3.190	53	8372	1.067	ppbV	100
17) 1,1-dichloroethene	3.355	61	22984	1.101	ppbV	99
18) tertiary butyl alcohol	3.380	59	27788	0.948	ppbV	94
19) methylene chloride	3.410	49	19608	1.117	ppbV	99
20) 3-chloropropene	3.470	41	25425	1.075	ppbV	99
21) carbon disulfide	3.555	76	55499M3	1.091	ppbV	
22) Freon 113	3.540	101	32475	1.065	ppbV	100
23) trans-1,2-dichloroethene	3.863	61	25420	1.090	ppbV	92
24) 1,1-dichloroethane	3.963	63	32102	1.059	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221892_Ev2.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.990	73	46430	1.084	ppbV	99
26) vinyl acetate	4.030	43	33901	1.092	ppbV	98
27) 2-butanone	4.150	43	40958	1.105	ppbV	99
28) cis-1,2-dichloroethene	4.363	61	22888	1.056	ppbV	94
29) Ethyl Acetate	4.470	61	6281	1.082	ppbV	98
30) chloroform	4.510	83	30351	1.063	ppbV	99
31) Tetrahydrofuran	4.703	42	24945	1.079	ppbV	98
32) 1,2-dichloroethane	4.863	62	16474M4	1.082	ppbV	
34) hexane	4.470	57	31868	1.101	ppbV	94
36) 1,1,1-trichloroethane	4.990	97	26315	1.078	ppbV	95
37) benzene	5.210	78	64870	1.054	ppbV	97
38) carbon tetrachloride	5.283	117	24364	1.058	ppbV	99
39) cyclohexane	5.337	56	34866	1.086	ppbV	98
40) Dibromomethane	5.583	93	17054	1.075	ppbV #	99
41) 1,2-dichloropropane	5.597	63	21810	1.055	ppbV	100
42) bromodichloromethane	5.683	83	31183	1.091	ppbV	99
43) 1,4-dioxane	5.710	88	14102	1.103	ppbV	92
44) trichloroethene	5.710	130	28843	1.053	ppbV	98
45) 2,2,4-trimethylpentane	5.723	57	102186	1.102	ppbV	99
46) heptane	5.843	43	39341	1.093	ppbV #	95
47) cis-1,3-dichloropropene	6.100	75	31786	1.050	ppbV	100
48) 4-methyl-2-pentanone	6.113	43	45037M6	1.073	ppbV	
49) trans-1,3-dichloropropene	6.333	75	25808	1.058	ppbV	99
50) 1,1,2-trichloroethane	6.420	97	23668	1.039	ppbV	99
52) toluene	6.547	91	76951	1.048	ppbV	100
54) 2-hexanone	6.660	43	43082	1.064	ppbV	99
55) dibromochloromethane	6.740	129	33664	1.068	ppbV	99
56) 1,2-dibromoethane	6.853	107	34977	1.038	ppbV	98
57) tetrachloroethene	7.060	166	31256	1.030	ppbV	98
58) 1,1,1,2-tetrachloroethane	7.353	131	26872	1.052	ppbV	99
59) chlorobenzene	7.367	112	63372	1.035	ppbV	99
60) ethylbenzene	7.533	91	93011	1.030	ppbV	98
61) m+p-xylene	7.613	91	152397	2.093	ppbV	98
62) bromoform	7.653	173	25370	1.058	ppbV	99
63) styrene	7.780	104	62748	1.001	ppbV	99
64) 1,1,2,2-tetrachloroethane	7.827	83	52108	1.028	ppbV	99
65) o-xylene	7.827	91	76015	1.050	ppbV	97
66) 1,2,3-Trichloropropane	7.887	75	39676	1.018	ppbV	99
68) isopropylbenzene	8.107	105	97980	1.035	ppbV	98
69) Bromobenzene	8.153	77	54838	1.031	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221892_Ev2.D
 Acq On : 29 Nov 2023 11:44 PM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD1.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:25 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

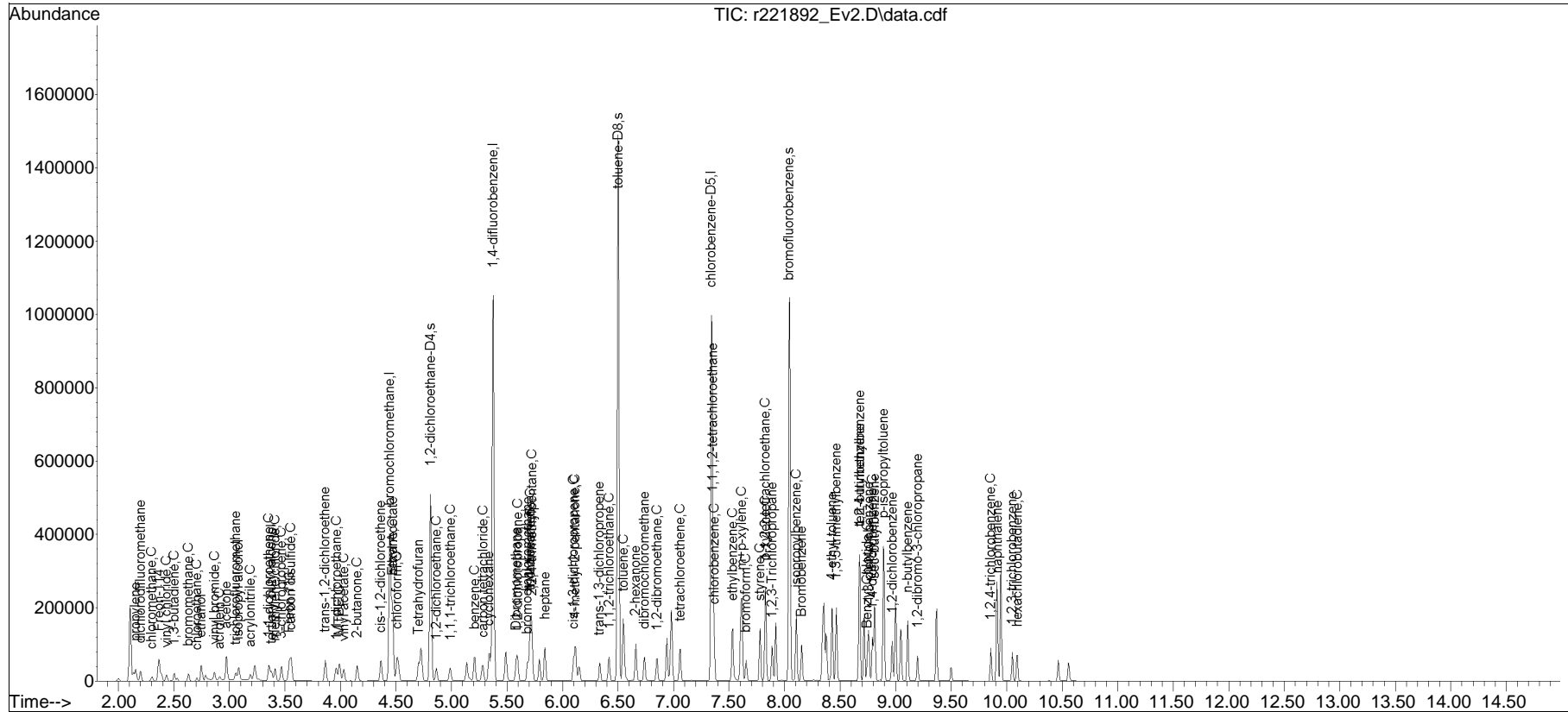
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	102878	1.048	ppbV	98
71) 1,3,5-trimethylbenzene	8.467	105	91264	1.025	ppbV	98
72) tert-butylbenzene	8.677	119	94026	1.056	ppbV	99
73) 1,2,4-trimethylbenzene	8.677	105	90199	1.045	ppbV	96
74) Benzyl Chloride	8.743	91	43389	0.894	ppbV	98
75) 1,3-dichlorobenzene	8.757	146	66766	0.984	ppbV	98
76) 1,4-dichlorobenzene	8.790	146	65781	0.990	ppbV	97
77) sec-butylbenzene	8.810	105	126361	1.033	ppbV	98
78) p-isopropyltoluene	8.890	119	112240	1.037	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	62320	0.976	ppbV	97
80) n-butylbenzene	9.110	91	93949	0.995	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	20973	1.003	ppbV	94
82) 1,2,4-trichlorobenzene	9.857	180	46160	0.887	ppbV	97
83) naphthalene	9.918	128	122200	0.989	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	40015	0.882	ppbV	97
85) hexachlorobutadiene	10.098	225	34875	0.980	ppbV	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221892_Ev2.D
Acq On : 29 Nov 2023 11:44 PM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

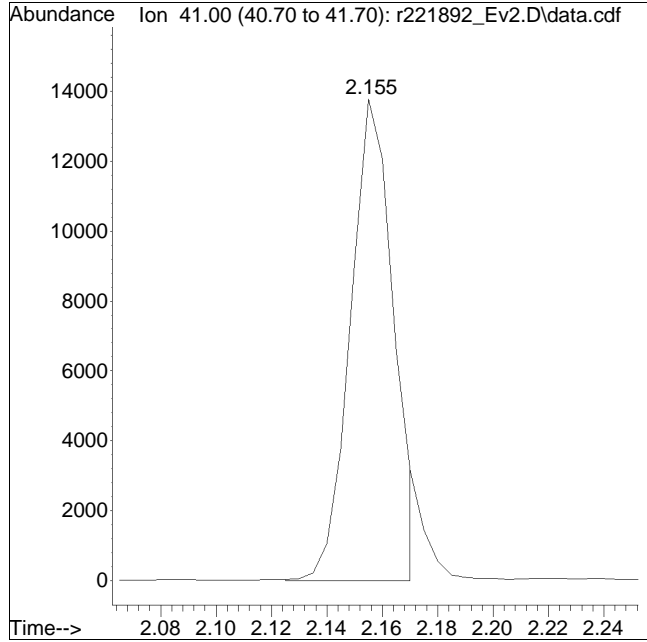
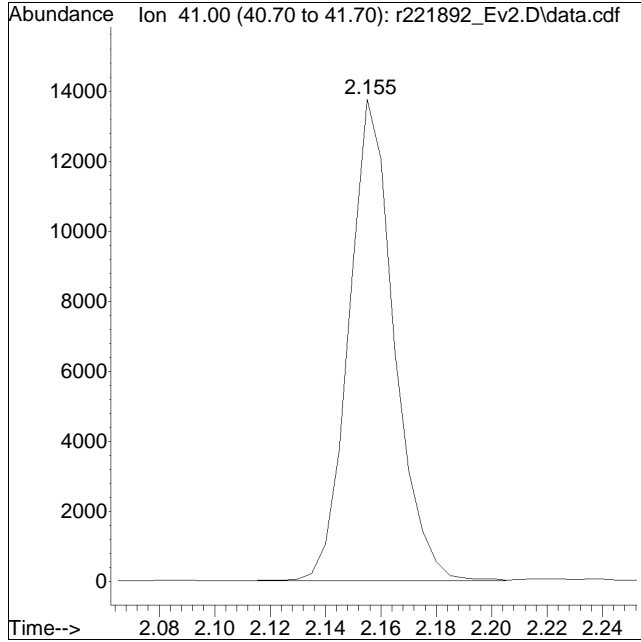
Quant Time: Nov 30 12:46:25 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 15652

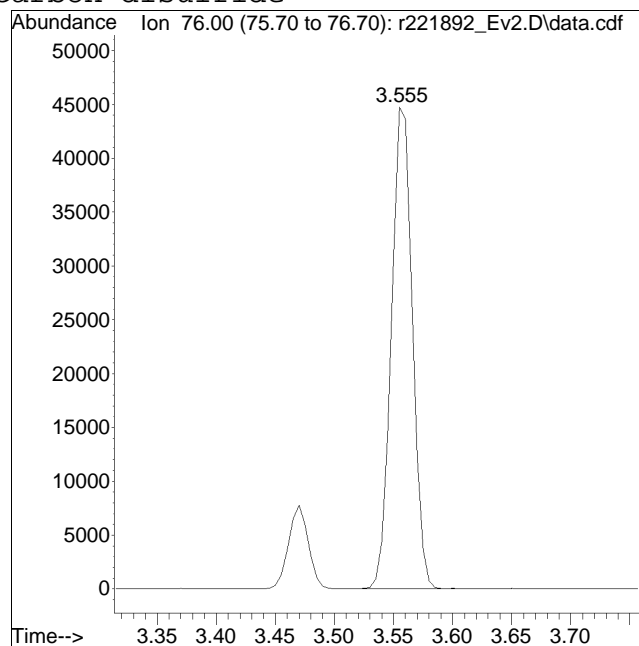
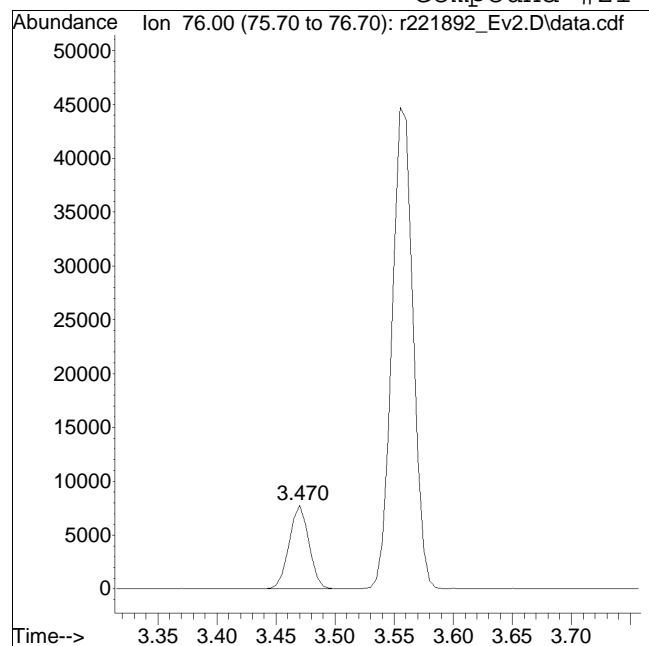
Manual Peak Response = 14963 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #21: carbon disulfide



Original Peak Response = 9052

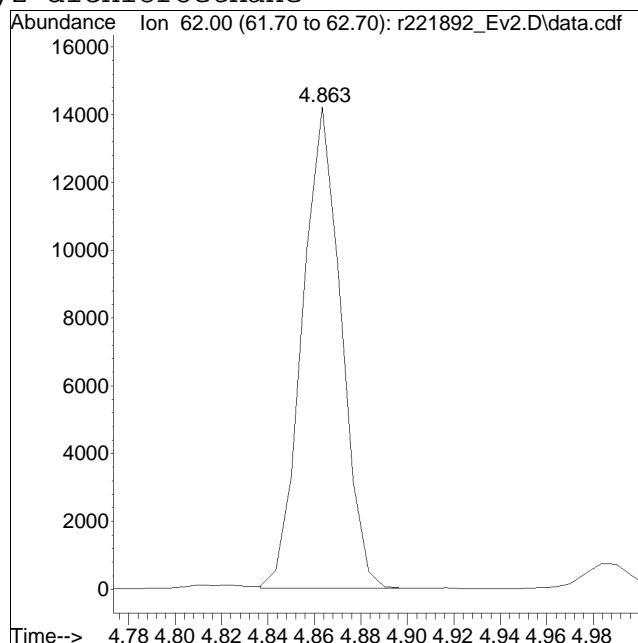
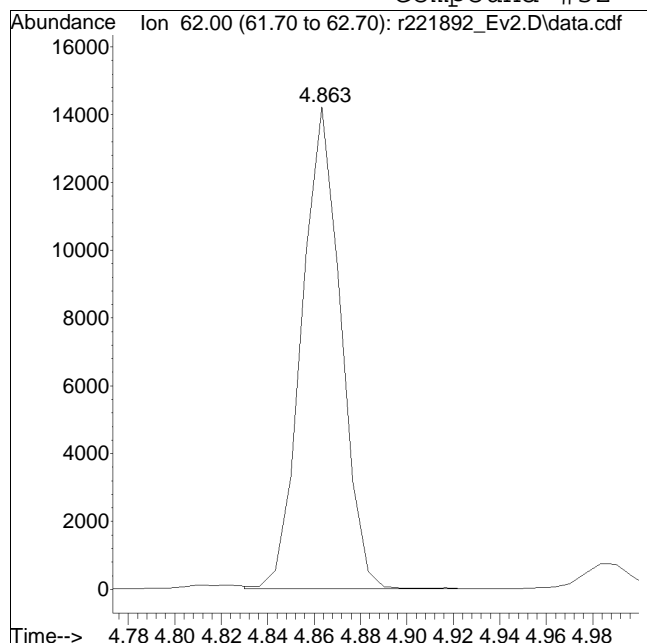
Manual Peak Response = 55499 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #32: 1,2-dichloroethane



Original Peak Response = 16633

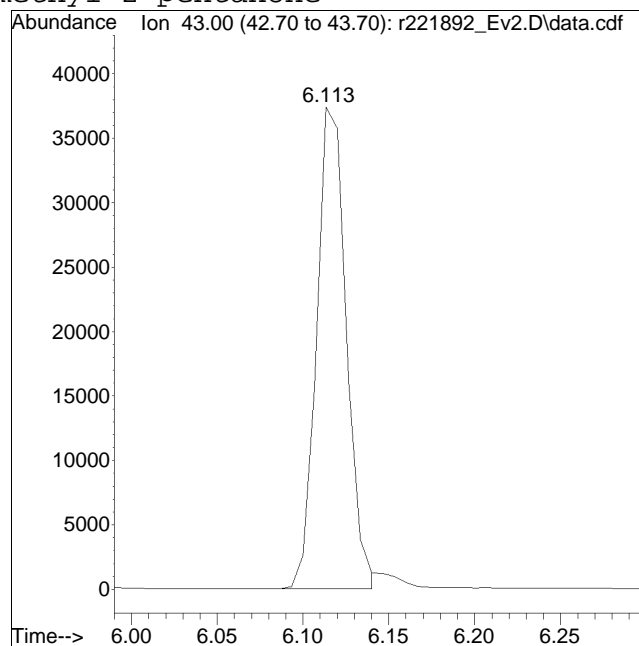
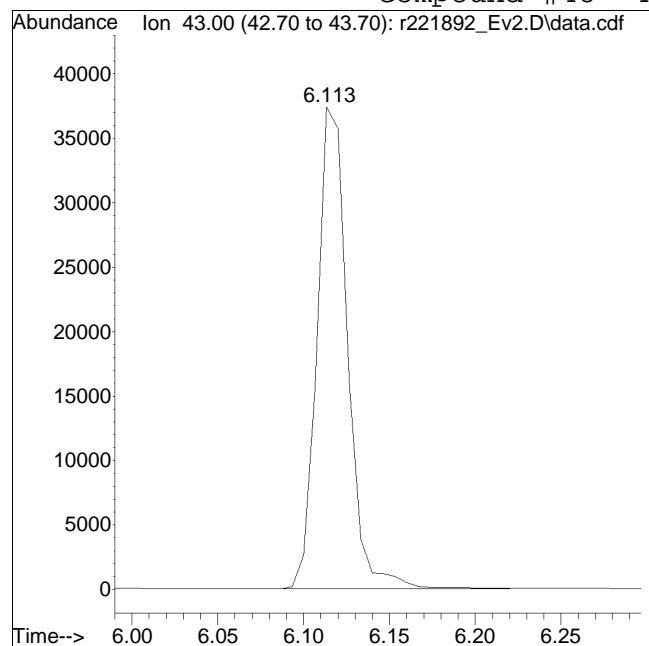
Manual Peak Response = 16474 M4

M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221892_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/29/2020 0:1: 4 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 11/30/2023 12:46 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 46381

Manual Peak Response = 45037 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221893_Ev2.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:11:02 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	222532	10.000	ppbV	0.01
Standard Area =	222532		Recovery =	100.00%		
33) 1,4-difluorobenzene	5.370	114	823848	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	100.00%		
51) chlorobenzene-D5	7.340	54	84248	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	100.00%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	233355	10.604	ppbV	0.01
Spiked Amount	10.000	Range 70 - 130	Recovery =	106.04%		
53) toluene-D8	6.500	98	899821	11.115	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	111.15%		
67) bromofluorobenzene	8.040	95	582901	11.005	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	110.05%		
Target Compounds						
						Qvalue
2) propylene	2.155	41	64990M6	4.237	ppbV	
3) dichlorodifluoromethane	2.195	85	103139	4.856	ppbV	99
4) chloromethane	2.300	50	47353	4.669	ppbV	98
5) Freon-114	2.360	85	145512	4.692	ppbV	98
6) vinyl chloride	2.430	62	65931	4.265	ppbV	99
7) 1,3-butadiene	2.500	54	46317	4.245	ppbV #	81
8) bromomethane	2.625	94	48517	4.654	ppbV	97
9) chloroethane	2.705	64	24566	3.978	ppbV	96
10) ethanol	2.740	31	92951	22.051	ppbV	91
11) vinyl bromide	2.860	106	49353	5.122	ppbV	97
12) acrolein	2.908	56	20427	4.104	ppbV #	80
13) acetone	2.965	43	183529	17.991	ppbV #	87
14) trichlorofluoromethane	3.052	101	59615	4.557	ppbV	99
15) isopropyl alcohol	3.073	45	155821	9.996	ppbV	99
16) acrylonitrile	3.184	53	39442	4.591	ppbV	99
17) 1,1-dichloroethene	3.350	61	104943	4.447	ppbV	93
18) tertiary butyl alcohol	3.365	59	147383	5.068	ppbV	98
19) methylene chloride	3.405	49	88181	4.737	ppbV	91
20) 3-chloropropene	3.465	41	118913	4.568	ppbV	94
21) carbon disulfide	3.555	76	255718	4.862	ppbV	99
22) Freon 113	3.535	101	153285	4.989	ppbV	94
23) trans-1,2-dichloroethene	3.857	61	117184	4.351	ppbV	95
24) 1,1-dichloroethane	3.957	63	152360	4.593	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221893_Ev2.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:11:02 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.983	73	215331	4.829	ppbV	95
26) vinyl acetate	4.023	43	156006	5.275	ppbV	95
27) 2-butanone	4.143	43	186228	5.112	ppbV	97
28) cis-1,2-dichloroethene	4.363	61	108882	4.462	ppbV	88
29) Ethyl Acetate	4.463	61	29170	4.742	ppbV	64
30) chloroform	4.503	83	143516	4.719	ppbV #	98
31) Tetrahydrofuran	4.697	42	116228	4.727	ppbV	96
32) 1,2-dichloroethane	4.863	62	76508	4.539	ppbV	98
34) hexane	4.463	57	145989	4.533	ppbV #	70
36) 1,1,1-trichloroethane	4.983	97	123167	5.225	ppbV	99
37) benzene	5.203	78	310500	4.879	ppbV	99
38) carbon tetrachloride	5.277	117	116130	5.453	ppbV	100
39) cyclohexane	5.337	56	161978	4.538	ppbV	98
40) Dibromomethane	5.583	93	80031	5.176	ppbV #	84
41) 1,2-dichloropropane	5.590	63	104245	4.814	ppbV	99
42) bromodichloromethane	5.683	83	144127	4.943	ppbV	99
43) 1,4-dioxane	5.697	88	64470	4.738	ppbV	97
44) trichloroethene	5.703	130	138142	5.190	ppbV	98
45) 2,2,4-trimethylpentane	5.723	57	467805	4.807	ppbV	99
46) heptane	5.837	43	181586	4.968	ppbV	93
47) cis-1,3-dichloropropene	6.100	75	152650	5.159	ppbV	94
48) 4-methyl-2-pentanone	6.113	43	211670	5.237	ppbV #	96
49) trans-1,3-dichloropropene	6.333	75	123028	5.335	ppbV	97
50) 1,1,2-trichloroethane	6.420	97	114949	5.165	ppbV	91
52) toluene	6.547	91	364351	5.232	ppbV	100
54) 2-hexanone	6.653	43	201029	5.174	ppbV	92
55) dibromochloromethane	6.740	129	156508	5.350	ppbV	99
56) 1,2-dibromoethane	6.847	107	167207	5.313	ppbV	96
57) tetrachloroethene	7.060	166	150690	4.949	ppbV	96
58) 1,1,1,2-tetrachloroethane	7.353	131	126862	5.440	ppbV	98
59) chlorobenzene	7.367	112	304034	5.194	ppbV	95
60) ethylbenzene	7.533	91	448222	5.259	ppbV	94
61) m+p-xylene	7.613	91	722792	10.717	ppbV	96
62) bromoform	7.653	173	119022	5.054	ppbV	97
63) styrene	7.780	104	311096	5.705	ppbV	97
64) 1,1,2,2-tetrachloroethane	7.827	83	251610	5.225	ppbV	98
65) o-xylene	7.827	91	359428	5.375	ppbV	99
66) 1,2,3-Trichloropropane	7.887	75	193512	5.383	ppbV	97
68) isopropylbenzene	8.107	105	469910	5.657	ppbV	99
69) Bromobenzene	8.153	77	263966	5.394	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221893_Ev2.D
 Acq On : 30 Nov 2023 12:16 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:43:36 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sat Nov 04 15:11:02 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

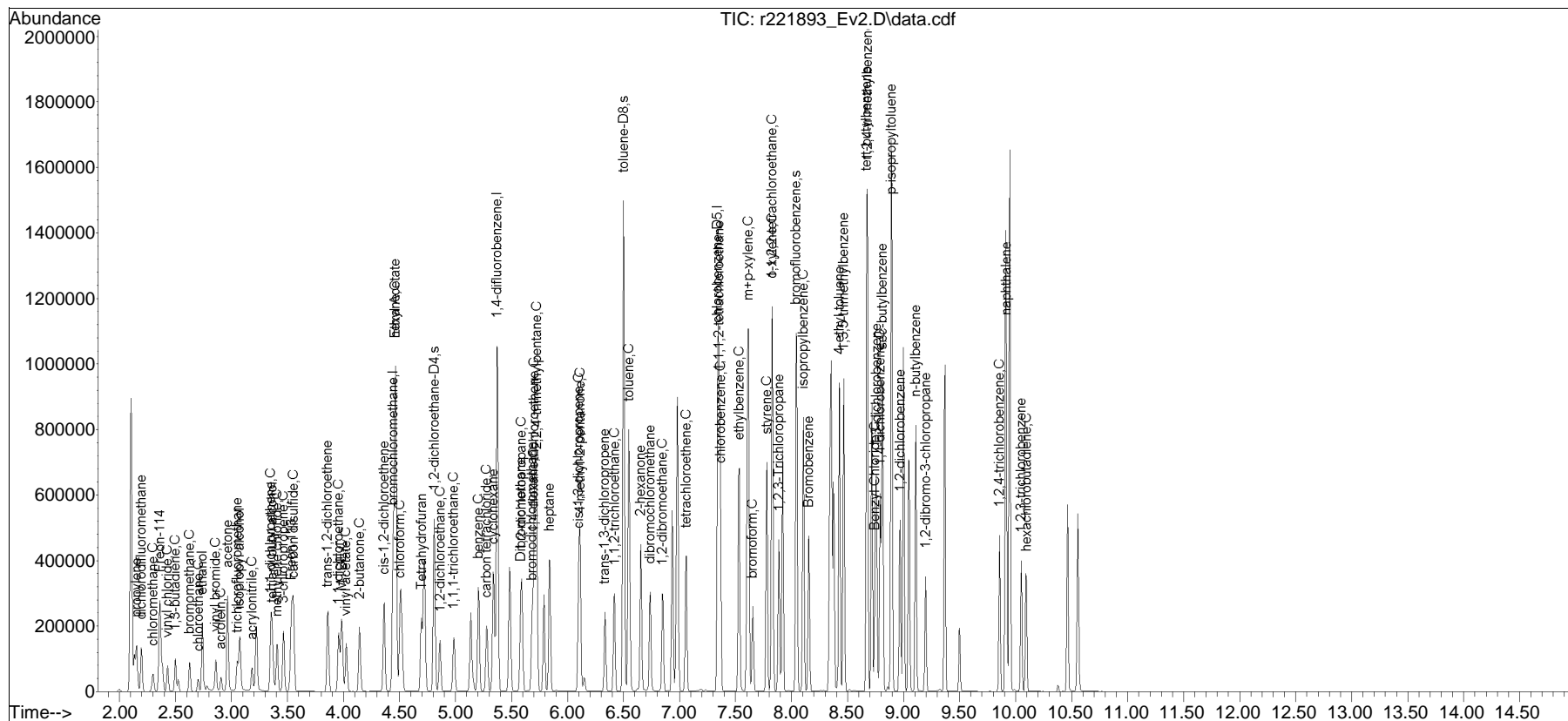
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	487212	5.572	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	441798	5.888	ppbV	99
72) tert-butylbenzene	8.670	119	442212	5.638	ppbV	98
73) 1,2,4-trimethylbenzene	8.677	105	428606	5.794	ppbV #	89
74) Benzyl Chloride	8.743	91	240845	6.054	ppbV	97
75) 1,3-dichlorobenzene	8.757	146	336758	5.742	ppbV	97
76) 1,4-dichlorobenzene	8.790	146	329855	5.786	ppbV	97
77) sec-butylbenzene	8.810	105	607250	5.886	ppbV	98
78) p-isopropyltoluene	8.890	119	537248	5.754	ppbV	99
79) 1,2-dichlorobenzene	8.970	146	316880	5.734	ppbV #	89
80) n-butylbenzene	9.110	91	468655	5.821	ppbV #	85
81) 1,2-dibromo-3-chloropr...	9.197	75	103757	5.980	ppbV	95
82) 1,2,4-trichlorobenzene	9.857	180	258218	5.782	ppbV	95
83) naphthalene	9.918	128	613259	6.017	ppbV	99
84) 1,2,3-trichlorobenzene	10.053	180	225175	5.811	ppbV	95
85) hexachlorobutadiene	10.098	225	176698	5.275	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221893_Ev2.D
Acq On : 30 Nov 2023 12:16 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

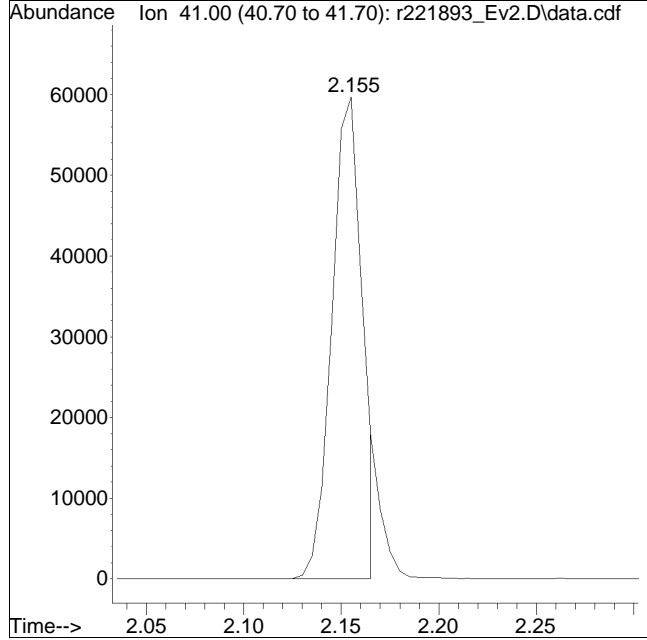
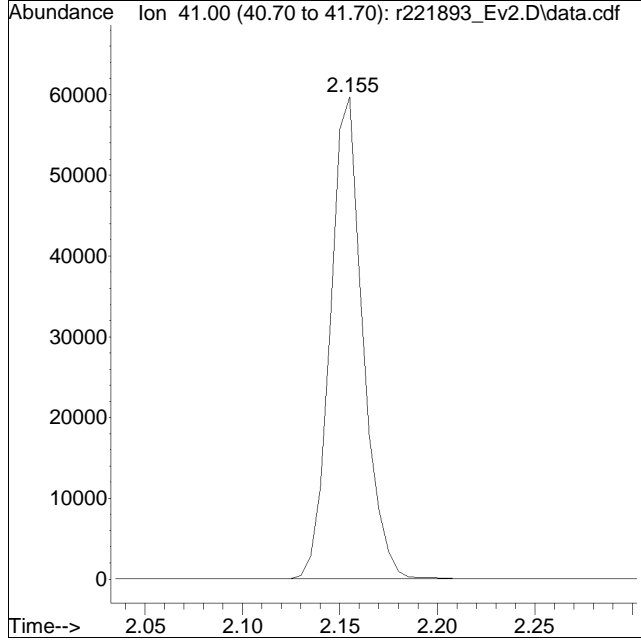
Quant Time: Nov 30 12:43:36 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Nov 04 15:11:02 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221893_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 11/30/2023 12:43 pm

Compound #2: propylene



Original Peak Response = 69207

Manual Peak Response = 64990 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221894_Ev2.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	227159	10.000	ppbV	0.00
Standard Area =	222532		Recovery =	102.08%		
33) 1,4-difluorobenzene	5.377	114	847379	10.000	ppbV	0.00
Standard Area =	823848		Recovery =	102.86%		
51) chlorobenzene-D5	7.340	54	83778	10.000	ppbV	0.00
Standard Area =	84248		Recovery =	99.44%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	236390	9.849	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	98.49%		
53) toluene-D8	6.500	98	921570	10.299	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	102.99%		
67) bromofluorobenzene	8.047	95	596601M3	10.292	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =	102.92%		
Target Compounds						
						Qvalue
2) propylene	2.155	41	129404M6	9.159	ppbV	
3) dichlorodifluoromethane	2.200	85	182535	8.669	ppbV	100
4) chloromethane	2.300	50	96307	9.962	ppbV	100
5) Freon-114	2.365	85	284581	9.579	ppbV	98
6) vinyl chloride	2.435	62	131748	9.788	ppbV	99
7) 1,3-butadiene	2.505	54	92873	9.822	ppbV	98
8) bromomethane	2.630	94	96079	9.700	ppbV	100
9) chloroethane	2.705	64	50186	10.006	ppbV	97
10) ethanol	2.745	31	167998	44.264	ppbV	99
11) vinyl bromide	2.866	106	98205	9.747	ppbV	99
12) acrolein	2.911	56	41582	9.971	ppbV #	89
13) acetone	2.968	43	364736	48.672	ppbV	100
14) trichlorofluoromethane	3.055	101	119162	9.791	ppbV	99
15) isopropyl alcohol	3.076	45	306780	24.109	ppbV	100
16) acrylonitrile	3.187	53	79241	9.841	ppbV	99
17) 1,1-dichloroethene	3.355	61	211404	9.867	ppbV	99
18) tertiary butyl alcohol	3.365	59	292856	9.733	ppbV	100
19) methylene chloride	3.410	49	178894	9.937	ppbV	98
20) 3-chloropropene	3.470	41	242306	9.981	ppbV	98
21) carbon disulfide	3.555	76	516352	9.890	ppbV	100
22) Freon 113	3.540	101	308629	9.862	ppbV	99
23) trans-1,2-dichloroethene	3.863	61	236178	9.872	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221894_Ev2.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
24) 1,1-dichloroethane	3.957	63	309148	9.939	ppbV	99
25) MTBE	3.983	73	435830	9.914	ppbV	98
26) vinyl acetate	4.030	43	327460	10.281	ppbV	95
27) 2-butanone	4.143	43	379615	9.985	ppbV	99
28) cis-1,2-dichloroethene	4.363	61	219997	9.897	ppbV	96
29) Ethyl Acetate	4.470	61	60163	10.102	ppbV	66
30) chloroform	4.510	83	285984	9.761	ppbV	98
31) Tetrahydrofuran	4.697	42	235548	9.927	ppbV	99
32) 1,2-dichloroethane	4.863	62	152094	9.737	ppbV	98
34) hexane	4.470	57	290098	9.660	ppbV	77
36) 1,1,1-trichloroethane	4.990	97	273940	10.812	ppbV	95
37) benzene	5.210	78	623757	9.765	ppbV	97
38) carbon tetrachloride	5.283	117	231676	9.698	ppbV	99
39) cyclohexane	5.337	56	320441	9.617	ppbV	99
40) Dibromomethane	5.583	93	158950	9.655	ppbV #	98
41) 1,2-dichloropropane	5.597	63	209132	9.752	ppbV	99
42) bromodichloromethane	5.683	83	286656	9.668	ppbV	100
43) 1,4-dioxane	5.697	88	136006	10.255	ppbV	96
44) trichloroethene	5.710	130	277133	9.752	ppbV	97
45) 2,2,4-trimethylpentane	5.723	57	927630	9.639	ppbV	100
46) heptane	5.843	43	365163	9.776	ppbV #	95
47) cis-1,3-dichloropropene	6.100	75	312243	9.943	ppbV	99
48) 4-methyl-2-pentanone	6.113	43	420541	9.658	ppbV	99
49) trans-1,3-dichloropropene	6.333	75	252319	9.970	ppbV	100
50) 1,1,2-trichloroethane	6.420	97	231859	9.805	ppbV	100
52) toluene	6.547	91	723897	9.990	ppbV	100
54) 2-hexanone	6.653	43	406658	10.171	ppbV	99
55) dibromochloromethane	6.740	129	312606	10.043	ppbV	100
56) 1,2-dibromoethane	6.847	107	336566	10.121	ppbV	100
57) tetrachloroethene	7.060	166	299940	10.008	ppbV	99
58) 1,1,1,2-tetrachloroethane	7.353	131	248840	9.863	ppbV	100
59) chlorobenzene	7.367	112	602371	9.962	ppbV	99
60) ethylbenzene	7.533	91	889545	9.979	ppbV	100
61) m+p-xylene	7.613	91	1395936	19.421	ppbV	99
62) bromoform	7.653	173	237140	10.018	ppbV	99
63) styrene	7.780	104	620485	10.029	ppbV	100
64) 1,1,2,2-tetrachloroethane	7.827	83	491124	9.814	ppbV	100
65) o-xylene	7.827	91	682070	9.542	ppbV	99
66) 1,2,3-Trichloropropane	7.887	75	387430	10.067	ppbV	99
68) isopropylbenzene	8.107	105	914753	9.788	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221894_Ev2.D
 Acq On : 30 Nov 2023 12:49 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD010
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:31 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

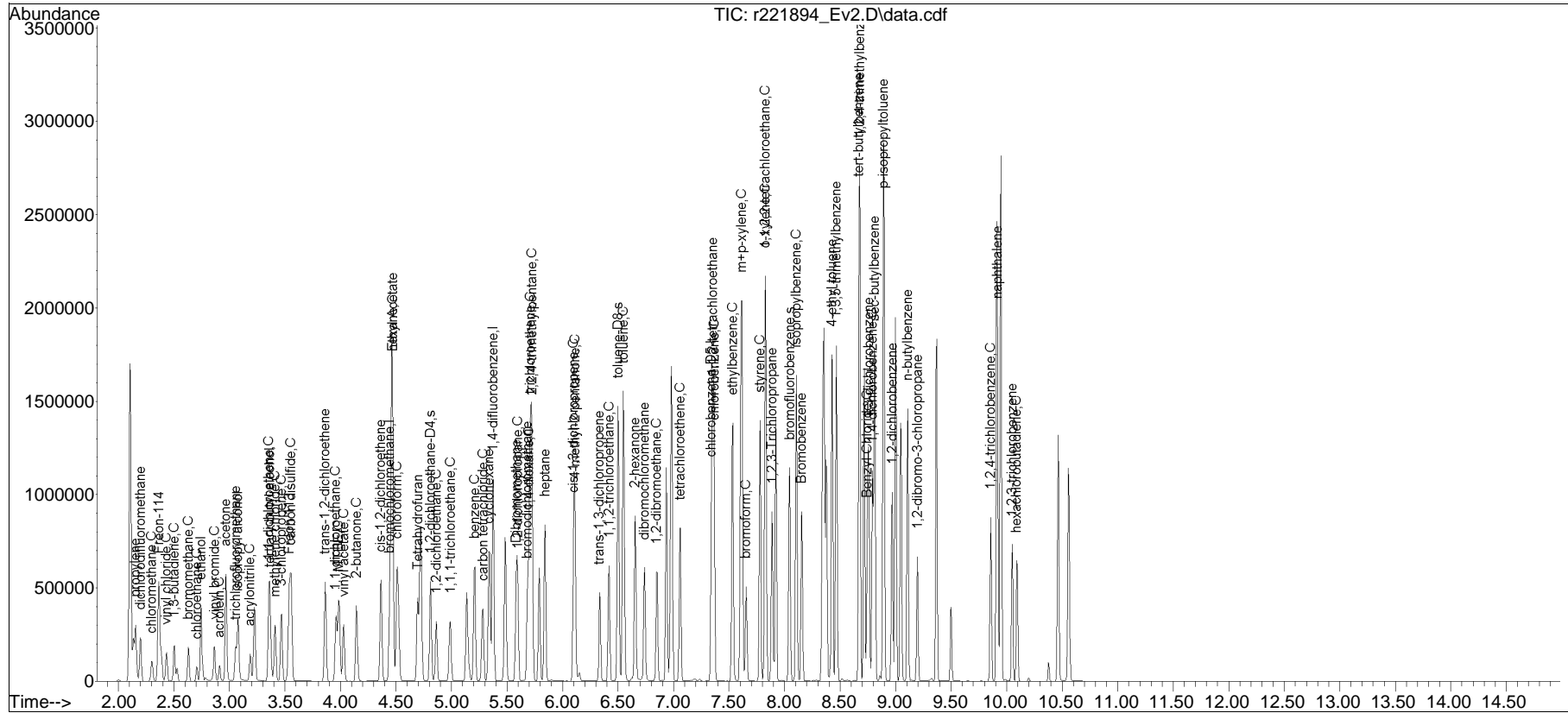
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Bromobenzene	8.153	77	519130	9.888	ppbV	99
70) 4-ethyl toluene	8.427	105	947678	9.780	ppbV	99
71) 1,3,5-trimethylbenzene	8.467	105	850474	9.679	ppbV	99
72) tert-butylbenzene	8.670	119	809525	9.204	ppbV	98
73) 1,2,4-trimethylbenzene	8.677	105	778139	9.128	ppbV	100
74) Benzyl Chloride	8.743	91	501038	10.460	ppbV	99
75) 1,3-dichlorobenzene	8.757	146	648619	9.684	ppbV	99
76) 1,4-dichlorobenzene	8.790	146	644311	9.821	ppbV	99
77) sec-butylbenzene	8.810	105	1157289	9.582	ppbV	99
78) p-isopropyltoluene	8.890	119	972864	9.105	ppbV	97
79) 1,2-dichlorobenzene	8.970	146	619373	9.828	ppbV	99
80) n-butylbenzene	9.110	91	890993	9.559	ppbV	97
81) 1,2-dibromo-3-chloropr...	9.197	75	194824	9.441	ppbV	94
82) 1,2,4-trichlorobenzene	9.857	180	502929	9.793	ppbV	99
83) naphthalene	9.918	128	1133194	9.291	ppbV	99
84) 1,2,3-trichlorobenzene	10.053	180	440478	9.836	ppbV	98
85) hexachlorobutadiene	10.090	225	317875	9.045	ppbV #	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221894_Ev2.D
Acq On : 30 Nov 2023 12:49 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD010
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

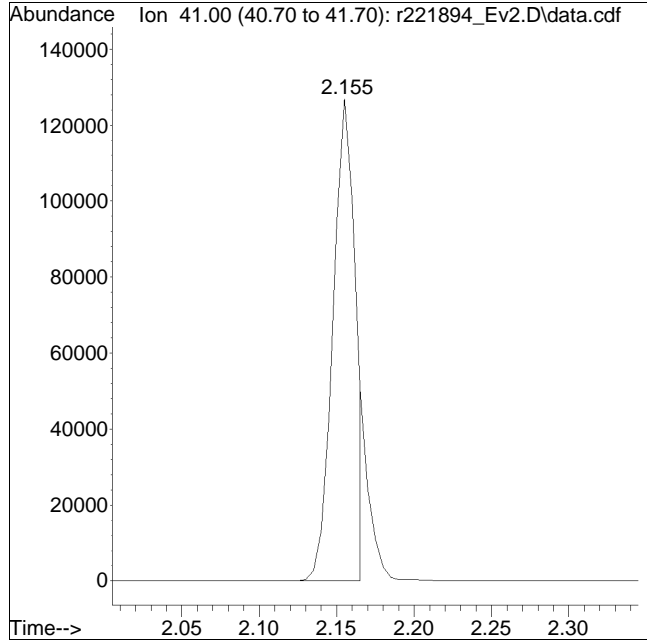
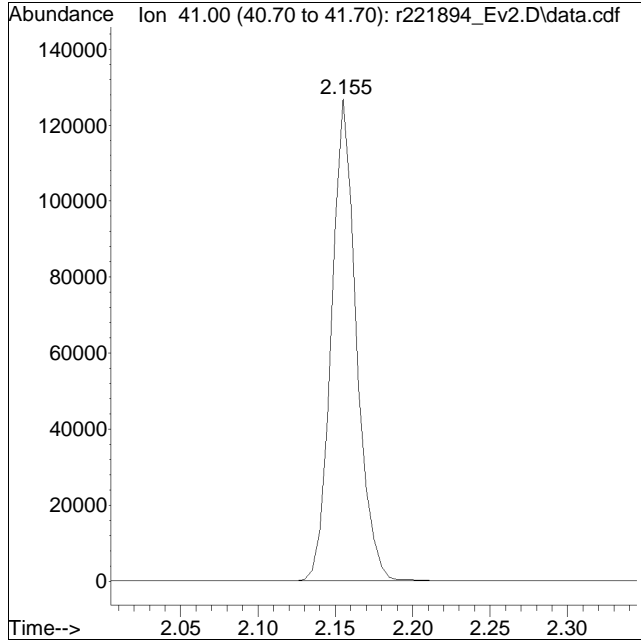
Quant Time: Nov 30 12:46:31 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221894_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 141919

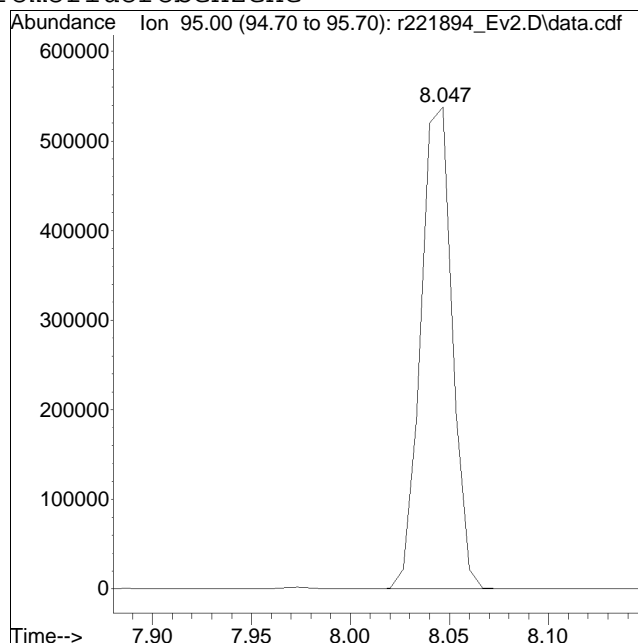
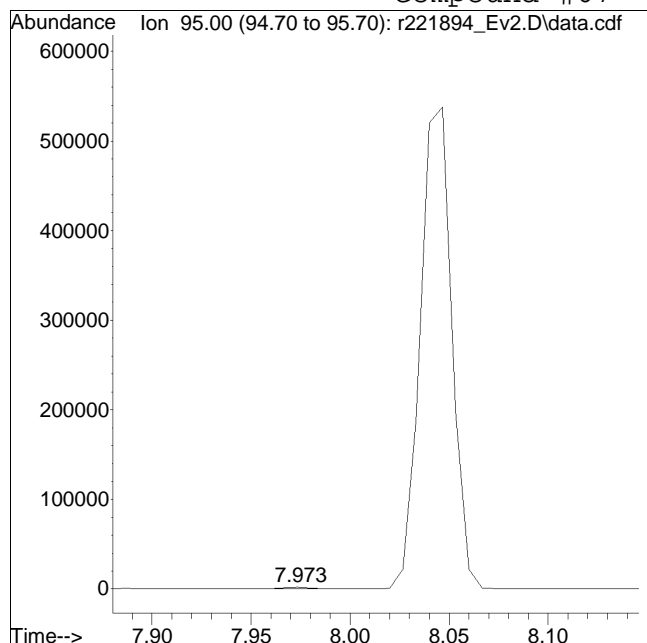
Manual Peak Response = 129404 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221894_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 11/30/2023 12:46 pm

Compound #67: bromofluorobenzene



Original Peak Response = 2052

Manual Peak Response = 596601 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221895_Ev2.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	232658	10.000	ppbV	0.00
Standard Area = 222532			Recovery =	104.55%		
33) 1,4-difluorobenzene	5.377	114	883905	10.000	ppbV	0.00
Standard Area = 823848			Recovery =	107.29%		
51) chlorobenzene-D5	7.340	54	81777	10.000	ppbV	0.00
Standard Area = 84248			Recovery =	97.07%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	239147	9.552	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	95.52%		
53) toluene-D8	6.500	98	953746	10.920	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	109.20%		
67) bromofluorobenzene	8.040	95	592928	10.479	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	104.79%		
Target Compounds						
						Qvalue
2) propylene	2.155	41	278324M6	19.233	ppbV	
3) dichlorodifluoromethane	2.200	85	374252	17.353	ppbV	100
4) chloromethane	2.305	50	194405	19.634	ppbV	99
5) Freon-114	2.365	85	521932	17.154	ppbV	98
6) vinyl chloride	2.435	62	252131	18.289	ppbV	99
7) 1,3-butadiene	2.505	54	184451	19.045	ppbV	98
8) bromomethane	2.630	94	182630	18.002	ppbV	100
9) chloroethane	2.705	64	103222	20.095	ppbV	98
10) ethanol	2.740	31	381527	98.149	ppbV	96
11) vinyl bromide	2.863	106	194178	18.816	ppbV	100
12) acrolein	2.908	56	80981	18.959	ppbV #	78
13) acetone	2.965	43	718372	93.596	ppbV	98
14) trichlorofluoromethane	3.055	101	228320	18.316	ppbV	99
15) isopropyl alcohol	3.073	45	629675	48.314	ppbV	100
16) acrylonitrile	3.184	53	163671	19.845	ppbV	100
17) 1,1-dichloroethene	3.355	61	433038	19.734	ppbV	96
18) tertiary butyl alcohol	3.360	59	609557	19.779	ppbV	100
19) methylene chloride	3.410	49	359677	19.507	ppbV	95
20) 3-chloropropene	3.465	41	498179	20.036	ppbV	98
21) carbon disulfide	3.555	76	1053210	19.697	ppbV	99
22) Freon 113	3.540	101	602927	18.811	ppbV	98
23) trans-1,2-dichloroethene	3.863	61	481303	19.642	ppbV #	85
24) 1,1-dichloroethane	3.957	63	617671	19.388	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221895_Ev2.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.983	73	881234	19.572	ppbV	99
26) vinyl acetate	4.023	43	706273	21.651	ppbV	100
27) 2-butanone	4.143	43	785373	20.169	ppbV	97
28) cis-1,2-dichloroethene	4.363	61	435826	19.143	ppbV	98
29) Ethyl Acetate	4.463	61	118916	19.496	ppbV	66
30) chloroform	4.510	83	555593	18.514	ppbV	98
31) Tetrahydrofuran	4.690	42	485151	19.962	ppbV	95
32) 1,2-dichloroethane	4.863	62	294777	18.426	ppbV	97
34) hexane	4.470	57	566822	18.094	ppbV #	63
36) 1,1,1-trichloroethane	4.990	97	521752	19.742	ppbV	94
37) benzene	5.203	78	1251579	18.785	ppbV	100
38) carbon tetrachloride	5.277	117	446430	17.915	ppbV	99
39) cyclohexane	5.337	56	648571	18.660	ppbV	99
40) Dibromomethane	5.583	93	302678	17.625	ppbV #	96
41) 1,2-dichloropropane	5.597	63	408363	18.256	ppbV	98
42) bromodichloromethane	5.683	83	555440	17.960	ppbV	100
43) 1,4-dioxane	5.697	88	280264	20.259	ppbV	88
44) trichloroethene	5.703	130	536694	18.106	ppbV	99
45) 2,2,4-trimethylpentane	5.723	57	1820695	18.138	ppbV	98
46) heptane	5.837	43	729313	18.717	ppbV	98
47) cis-1,3-dichloropropene	6.100	75	610249	18.630	ppbV	98
48) 4-methyl-2-pentanone	6.107	43	811794	17.873	ppbV	99
49) trans-1,3-dichloropropene	6.333	75	501706	19.005	ppbV	98
50) 1,1,2-trichloroethane	6.420	97	460617	18.674	ppbV	97
52) toluene	6.547	91	1359443	19.219	ppbV	99
54) 2-hexanone	6.647	43	799110	20.476	ppbV	99
55) dibromochloromethane	6.740	129	608934	20.042	ppbV	99
56) 1,2-dibromoethane	6.847	107	656661	20.230	ppbV	100
57) tetrachloroethene	7.060	166	568058	19.418	ppbV	97
58) 1,1,1,2-tetrachloroethane	7.353	131	456190	18.523	ppbV	99
59) chlorobenzene	7.360	112	1116982	18.924	ppbV	94
60) ethylbenzene	7.527	91	1668559	19.176	ppbV	98
61) m+p-xylene	7.613	91	2465327	35.139	ppbV	96
62) bromoform	7.653	173	456985	19.778	ppbV	99
63) styrene	7.780	104	1174090	19.440	ppbV	98
64) 1,1,2,2-tetrachloroethane	7.820	83	887592	18.171	ppbV	98
65) o-xylene	7.827	91	1190132	17.056	ppbV	94
66) 1,2,3-Trichloropropane	7.887	75	734755	19.558	ppbV	99
68) isopropylbenzene	8.107	105	1664748	18.249	ppbV	95
69) Bromobenzene	8.153	77	954722	18.631	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221895_Ev2.D
 Acq On : 30 Nov 2023 1:19 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD020
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:37 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

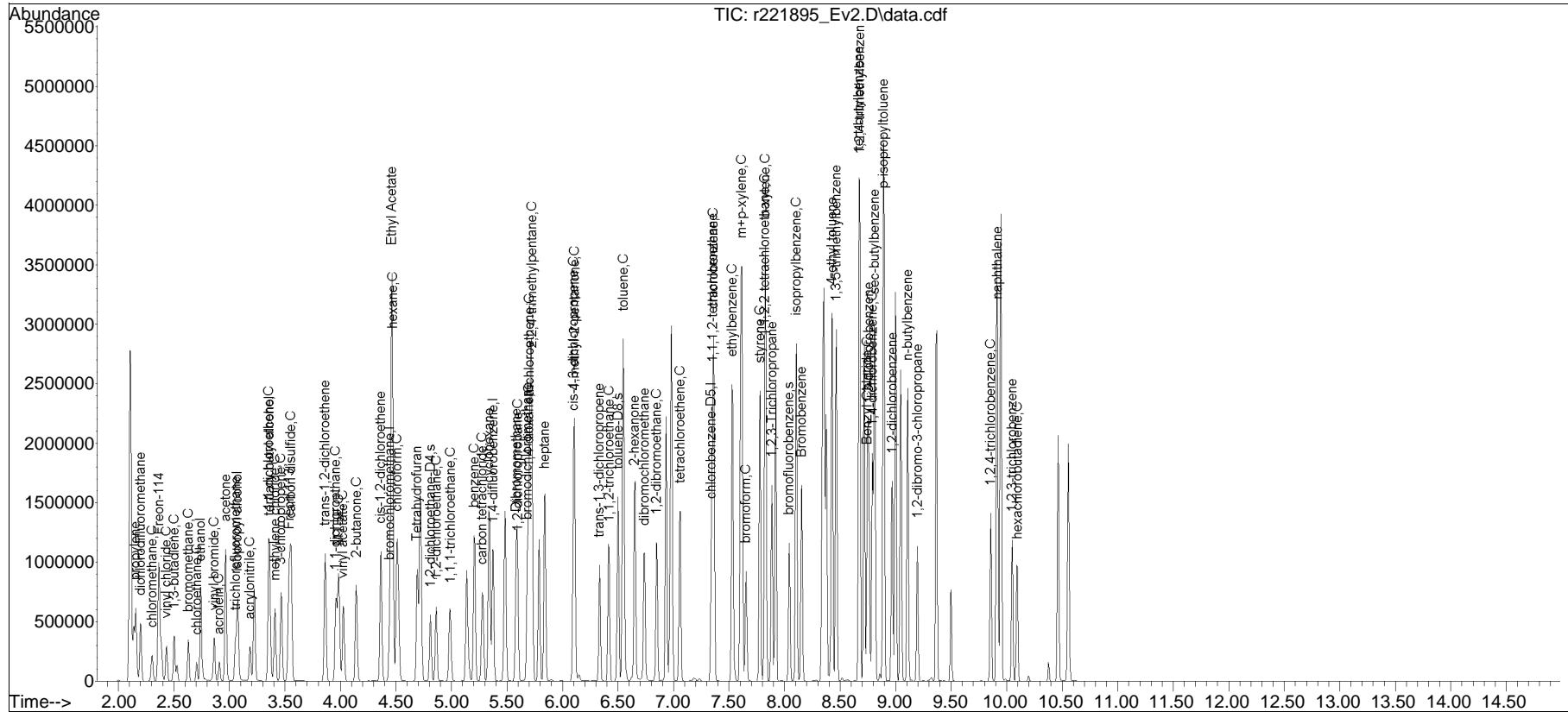
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
70) 4-ethyl toluene	8.427	105	1755459	18.560	ppbV		96
71) 1,3,5-trimethylbenzene	8.467	105	1494270	17.422	ppbV		95
72) tert-butylbenzene	8.670	119	1344507	15.661	ppbV		94
73) 1,2,4-trimethylbenzene	8.677	105	1285640	15.451	ppbV		98
74) Benzyl Chloride	8.743	91	992137	21.219	ppbV		93
75) 1,3-dichlorobenzene	8.757	146	1154725	17.663	ppbV		98
76) 1,4-dichlorobenzene	8.790	146	1128998	17.631	ppbV		97
77) sec-butylbenzene	8.810	105	2032188	17.238	ppbV		95
78) p-isopropyltoluene	8.890	119	1594736	15.290	ppbV		92
79) 1,2-dichlorobenzene	8.970	146	1110156	18.046	ppbV		98
80) n-butylbenzene	9.110	91	1550014	17.037	ppbV		95
81) 1,2-dibromo-3-chloropr...	9.197	75	336772	16.719	ppbV		89
82) 1,2,4-trichlorobenzene	9.857	180	846679	16.890	ppbV		97
83) naphthalene	9.918	128	1803822	15.151	ppbV		99
84) 1,2,3-trichlorobenzene	10.053	180	744463	17.030	ppbV		97
85) hexachlorobutadiene	10.098	225	508488	14.823	ppbV		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221895_Ev2.D
Acq On : 30 Nov 2023 1:19 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD020
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

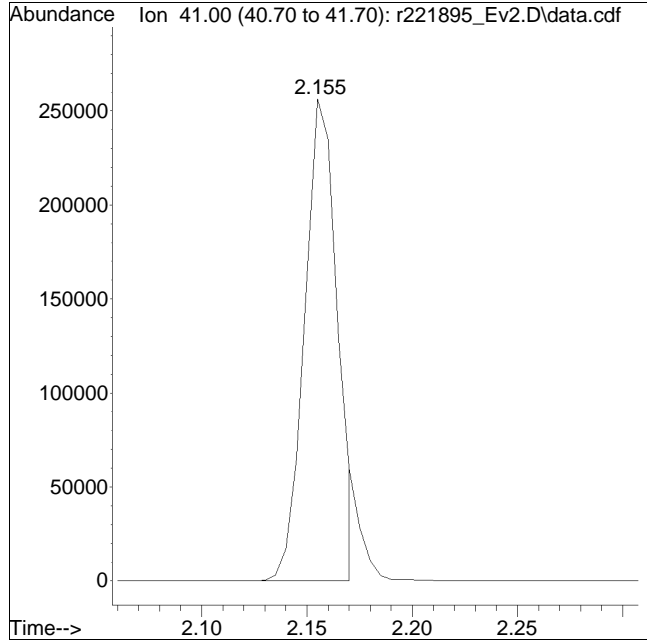
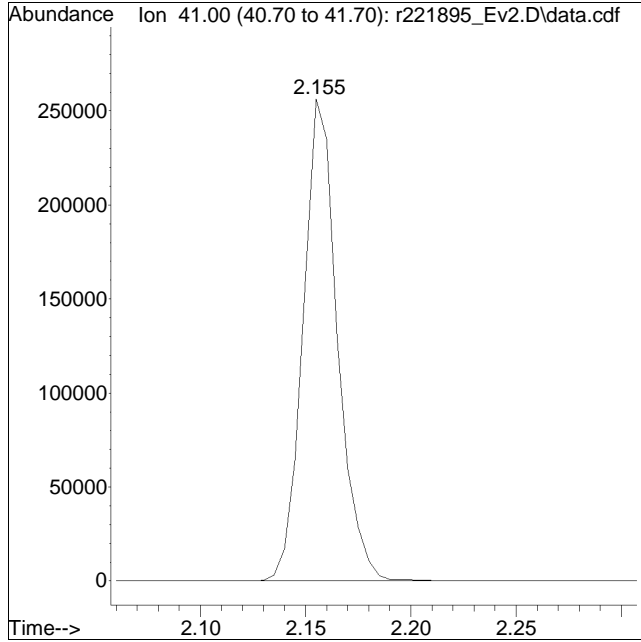
Quant Time: Nov 30 12:46:37 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221895_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 291982

Manual Peak Response = 278324 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221896_Ev2.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.443	49	225451	10.000	ppbV	0.00
Standard Area = 222532			Recovery = 101.31%			
33) 1,4-difluorobenzene	5.377	114	888578	10.000	ppbV	0.00
Standard Area = 823848			Recovery = 107.86%			
51) chlorobenzene-D5	7.340	54	71693	10.000	ppbV	# 0.00
Standard Area = 84248			Recovery = 85.10%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	213301	8.475	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.75%			
53) toluene-D8	6.500	98	939488	12.269	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 122.69%			
67) bromofluorobenzene	8.040	95	582048	11.734	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 117.34%			
Target Compounds						
						Qvalue
2) propylene	2.150	41	658808M6	46.981	ppbV	
3) dichlorodifluoromethane	2.195	85	797137	38.143	ppbV	100
4) chloromethane	2.300	50	468726	48.852	ppbV	100
5) Freon-114	2.360	85	1071076	36.327	ppbV	98
6) vinyl chloride	2.430	62	577215	43.207	ppbV	99
7) 1,3-butadiene	2.500	54	420659	44.823	ppbV	92
8) bromomethane	2.630	94	393618	40.040	ppbV	100
9) chloroethane	2.705	64	230611	46.329	ppbV	97
10) ethanol	2.745	31	727581	193.156	ppbV	94
11) vinyl bromide	2.863	106	414947	41.494	ppbV	100
12) acrolein	2.911	56	187950	45.410	ppbV	# 81
13) acetone	2.965	43	1599828	215.104	ppbV	95
14) trichlorofluoromethane	3.055	101	498902	41.302	ppbV	99
15) isopropyl alcohol	3.076	45	1387150	109.837	ppbV	100
16) acrylonitrile	3.187	53	361949	45.290	ppbV	100
17) 1,1-dichloroethene	3.355	61	815599	38.356	ppbV	88
18) tertiary butyl alcohol	3.365	59	1259242	42.167	ppbV	98
19) methylene chloride	3.410	49	831481	46.536	ppbV	94
20) 3-chloropropene	3.465	41	1149311	47.700	ppbV	96
21) carbon disulfide	3.555	76	2329780	44.964	ppbV	97
22) Freon 113	3.540	101	1274123	41.022	ppbV	98
23) trans-1,2-dichloroethene	3.863	61	1050983	44.263	ppbV	# 79
24) 1,1-dichloroethane	3.957	63	1381308	44.743	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221896_Ev2.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.983	73	1917940	43.958	ppbV	97
26) vinyl acetate	4.023	43	1698787	53.741	ppbV	98
27) 2-butanone	4.143	43	1661489	44.031	ppbV	94
28) cis-1,2-dichloroethene	4.363	61	955118	43.292	ppbV	93
29) Ethyl Acetate	4.463	61	246632	41.728	ppbV #	48
30) chloroform	4.510	83	1155027	39.719	ppbV	98
31) Tetrahydrofuran	4.690	42	1097759	46.613	ppbV	99
32) 1,2-dichloroethane	4.863	62	601952	38.830	ppbV #	91
34) hexane	4.470	57	1135252	36.049	ppbV #	59
36) 1,1,1-trichloroethane	4.990	97	1054124	39.675	ppbV #	93
37) benzene	5.210	78	2757624	41.171	ppbV	97
38) carbon tetrachloride	5.283	117	907614	36.231	ppbV	99
39) cyclohexane	5.337	56	1437713	41.147	ppbV	97
40) Dibromomethane	5.583	93	608311	35.236	ppbV #	92
41) 1,2-dichloropropane	5.597	63	864007	38.422	ppbV #	97
42) bromodichloromethane	5.683	83	1112782	35.792	ppbV	99
43) 1,4-dioxane	5.697	88	579373	41.660	ppbV	83
44) trichloroethene	5.710	130	1073364	36.020	ppbV	97
45) 2,2,4-trimethylpentane	5.723	57	3656532	36.235	ppbV	97
46) heptane	5.843	43	1510390	38.559	ppbV #	89
47) cis-1,3-dichloropropene	6.100	75	1270546	38.585	ppbV	96
48) 4-methyl-2-pentanone	6.107	43	1640617	35.931	ppbV	97
49) trans-1,3-dichloropropene	6.333	75	1086262	40.931	ppbV	97
50) 1,1,2-trichloroethane	6.420	97	1000350	40.343	ppbV	96
52) toluene	6.547	91	2662548	42.937	ppbV	97
54) 2-hexanone	6.647	43	1690982	49.423	ppbV	97
55) dibromochloromethane	6.740	129	1207682	45.339	ppbV	99
56) 1,2-dibromoethane	6.847	107	1341625	47.144	ppbV	99
57) tetrachloroethene	7.060	166	1101335	42.943	ppbV	95
58) 1,1,1,2-tetrachloroethane	7.353	131	849354	39.338	ppbV	98
59) chlorobenzene	7.367	112	2113334	40.841	ppbV	100
60) ethylbenzene	7.527	91	3212886	42.117	ppbV	98
61) m+p-xylene	7.613	91	4368061	71.016	ppbV	92
62) bromoform	7.653	173	877178	43.303	ppbV	98
63) styrene	7.780	104	2359470	44.563	ppbV	96
64) 1,1,2,2-tetrachloroethane	7.820	83	1645785	38.432	ppbV	98
65) o-xylene	7.833	91	2075608	33.930	ppbV	88
66) 1,2,3-Trichloropropane	7.887	75	1502965	45.635	ppbV	98
68) isopropylbenzene	8.107	105	3152647	39.420	ppbV	92
69) Bromobenzene	8.153	77	1840238	40.962	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221896_Ev2.D
 Acq On : 30 Nov 2023 1:51 AM
 Operator : AIRLAB22:RAY
 Sample : ITO15-SIMSTD050
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Nov 30 12:46:43 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Thu Nov 30 12:45:24 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

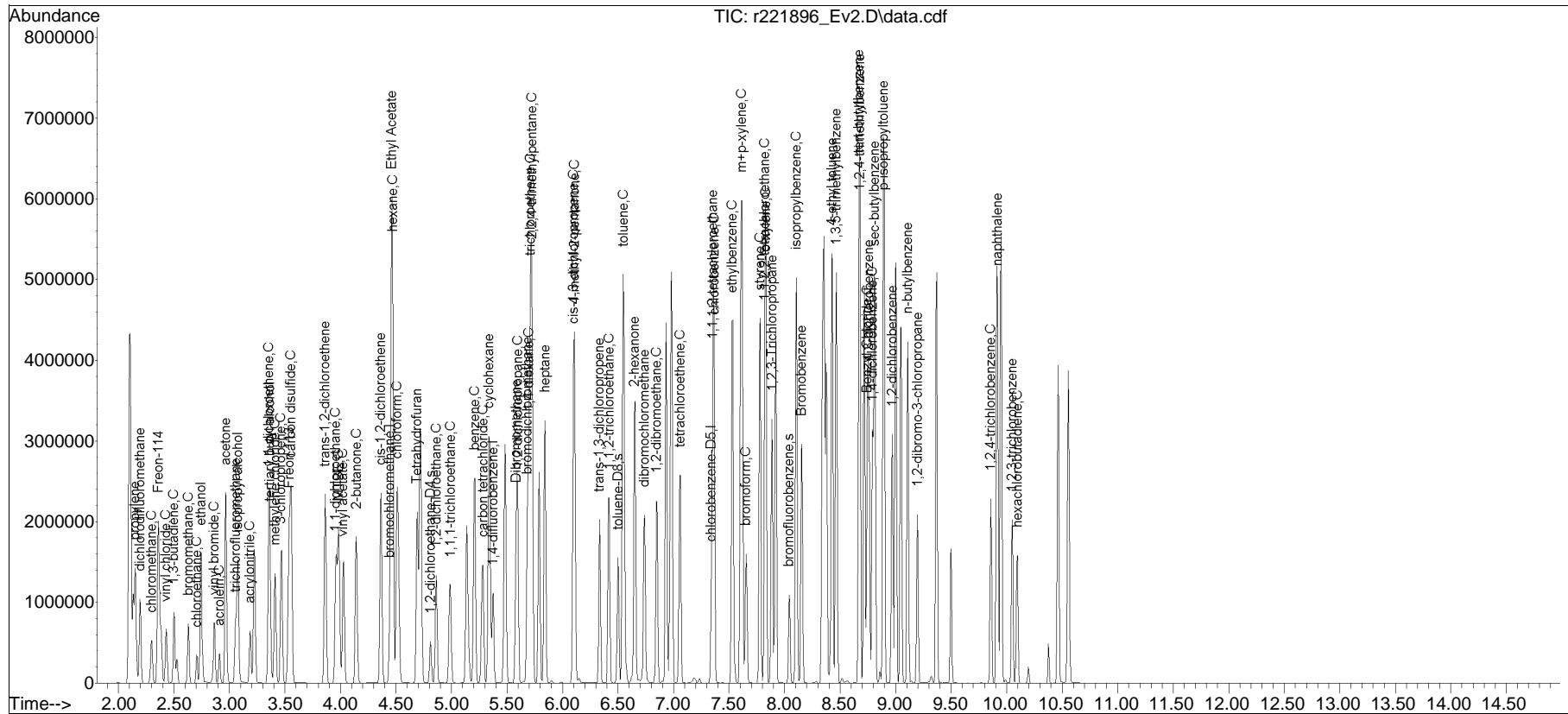
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	3261170	39.329	ppbV	94
71) 1,3,5-trimethylbenzene	8.467	105	2744840	36.504	ppbV	94
72) tert-butylbenzene	8.670	119	2262436	30.061	ppbV	90
73) 1,2,4-trimethylbenzene	8.677	105	2162141	29.640	ppbV	100
74) Benzyl Chloride	8.743	91	1962152	47.868	ppbV	90
75) 1,3-dichlorobenzene	8.757	146	2065060	36.030	ppbV	99
76) 1,4-dichlorobenzene	8.790	146	2060839	36.709	ppbV	98
77) sec-butylbenzene	8.810	105	3644201	35.260	ppbV	92
78) p-isopropyltoluene	8.890	119	2657672	29.066	ppbV	90
79) 1,2-dichlorobenzene	8.970	146	2089777	38.749	ppbV	99
80) n-butylbenzene	9.110	91	2830628	35.488	ppbV	93
81) 1,2-dibromo-3-chloropr...	9.197	75	635066	35.963	ppbV	83
82) 1,2,4-trichlorobenzene	9.857	180	1507829	34.310	ppbV	98
83) naphthalene	9.918	128	3002411	28.766	ppbV	98
84) 1,2,3-trichlorobenzene	10.053	180	1380714	36.028	ppbV	97
85) hexachlorobutadiene	10.098	225	849331	28.242	ppbV	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221896_Ev2.D
Acq On : 30 Nov 2023 1:51 AM
Operator : AIRLAB22:RAY
Sample : ITO15-SIMSTD050
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

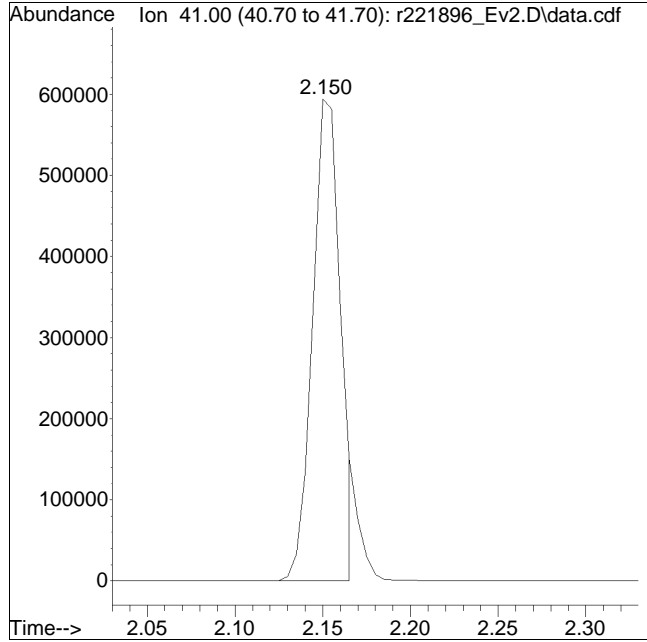
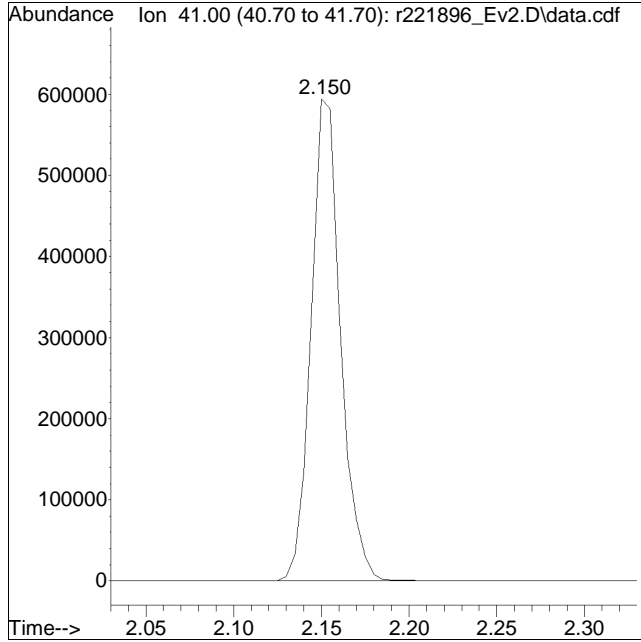
Quant Time: Nov 30 12:46:43 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Nov 30 12:45:24 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221896_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:1: 1 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 11/30/2023 12:46 pm

Compound #2: propylene



Original Peak Response = 694922

Manual Peak Response = 658808 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	87	0.00
2	propylene	0.644	0.771	-19.7	115	0.00
3	dichlorodifluoromethane	0.891	0.712	20.1	67	0.00
4 C	chloromethane	0.442	0.425	3.8	87	0.00
5	Freon-114	1.321	1.231	6.8	82	0.00
6 C	vinyl chloride	0.626	0.500	20.1	73	0.00
7 C	1,3-butadiene	0.440	0.393	10.7	82	0.00
8 C	bromomethane	0.470	0.354	24.7	71	0.00
9 C	chloroethane	0.237	0.192	19.0	76	0.00
10	ethanol	0.162	0.162	0.0	85	0.00
11 C	vinyl bromide	0.451	0.353	21.7	69	0.00
12 C	acrolein	0.202	0.143	29.2	68	0.00
13	acetone	0.341	0.319	6.5	84	0.00
14	trichlorofluoromethane	0.550	0.433	21.3	70	0.00
15	isopropyl alcohol	0.576	0.455	21.0	71	0.00
16 C	acrylonitrile	0.362	0.282	22.1	69	0.00
17 C	1,1-dichloroethene	0.937	0.682	27.2	63	0.00
18	tertiary butyl alcohol	1.274	1.052	17.4	69	0.00
19 C	methylene chloride	0.814	0.819	-0.6	90	0.00
20 C	3-chloropropene	1.102	1.077	2.3	88	0.00
21 C	carbon disulfide	2.357	2.286	3.0	87	0.00
22	Freon 113	1.442	1.380	4.3	87	0.00
23	trans-1,2-dichloroethene	1.134	0.973	14.2	80	0.00
24 C	1,1-dichloroethane	1.404	1.277	9.0	81	0.00
25 C	MTBE	2.009	1.774	11.7	80	0.00
26 C	vinyl acetate	1.489	1.185	20.4	74	0.00
27 C	2-butanone	1.720	1.431	16.8	74	0.00
28	cis-1,2-dichloroethene	1.014	0.897	11.5	80	0.00
29	Ethyl Acetate	0.264	0.270	-2.3	90	0.00
30 C	chloroform	1.330	1.092	17.9	74	0.00
31	Tetrahydrofuran	1.071	0.970	9.4	81	0.00
32 C	1,2-dichloroethane	0.725	0.460	36.6#	58#	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
34 C	hexane	0.352	0.351	0.3	86	0.00
35 s	1,2-dichloroethane-D4	0.274	0.197	28.1	61	0.00
36 C	1,1,1-trichloroethane	0.315	0.219	30.5#	64	0.00
37 C	benzene	0.758	0.725	4.4	84	0.00
38 C	carbon tetrachloride	0.285	0.203	28.8	63	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39	cyclohexane	0.392	0.400	-2.0	89	0.00
40	Dibromomethane	0.200	0.176	12.0	79	0.00
41 C	1,2-dichloropropane	0.262	0.248	5.3	85	0.00
42	bromodichloromethane	0.361	0.308	14.7	77	0.00
43 C	1,4-dioxane	0.168	0.171	-1.8	96	0.00
44 C	trichloroethene	0.342	0.340	0.6	88	0.00
45 C	2,2,4-trimethylpentane	1.124	1.135	-1.0	87	0.00
46	heptane	0.440	0.431	2.0	85	0.00
47 C	cis-1,3-dichloropropene	0.377	0.347	8.0	82	0.00
48 C	4-methyl-2-pentanone	0.491	0.474	3.5	81	0.00
49	trans-1,3-dichloropropene	0.299	0.252	15.7	74	0.00
50 C	1,1,2-trichloroethane	0.283	0.277	2.1	87	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	75	0.00
52 C	toluene	8.740	9.718	-11.2	84	0.00
53 s	toluene-D8	11.080	12.107	-9.3	85	0.00
54	2-hexanone	4.926	4.894	0.6	77	0.00
55	dibromochloromethane	3.875	4.169	-7.6	84	0.00
56 C	1,2-dibromoethane	4.102	4.336	-5.7	82	0.00
57 C	tetrachloroethene	3.650	3.995	-9.5	83	0.00
58	1,1,1,2-tetrachloroethane	3.116	2.968	4.7	74	0.00
59 C	chlorobenzene	7.265	8.000	-10.1	83	0.00
60 C	ethylbenzene	10.626	11.387	-7.2	80	0.00
61 C	m+p-xylene	8.402	9.087	-8.2	79	0.00
62 C	bromoform	2.919	3.223	-10.4	85	0.00
63 C	styrene	6.981	8.242	-18.1	83	0.00
64 C	1,1,2,2-tetrachloroethane	5.883	6.535	-11.1	82	0.00
65 C	o-xylene	8.344	9.021	-8.1	79	0.00
66	1,2,3-Trichloropropane	4.616	4.504	2.4	73	0.00
67 s	bromofluorobenzene	6.983	7.515	-7.6	81	0.00
68 C	isopropylbenzene	10.832	11.532	-6.5	77	0.00
69	Bromobenzene	6.182	6.297	-1.9	75	0.00
70	4-ethyl toluene	11.306	12.752	-12.8	82	0.00
71	1,3,5-trimethylbenzene	9.687	10.784	-11.3	77	0.00
72	tert-butylbenzene	9.709	10.326	-6.4	74	0.00
73	1,2,4-trimethylbenzene	9.381	10.376	-10.6	76	0.00
74 C	Benzyl Chloride	5.261	6.079	-15.5	79	0.00
75	1,3-dichlorobenzene	7.412	8.466	-14.2	79	0.00
76 C	1,4-dichlorobenzene	7.272	8.555	-17.6	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CT015-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77	sec-butylbenzene	13.556	14.520	-7.1	75	0.00
78	p-isopropyltoluene	11.575	11.899	-2.8	70	0.00
79	1,2-dichlorobenzene	6.981	8.010	-14.7	80	0.00
80	n-butylbenzene	10.262	11.138	-8.5	75	0.00
81	1,2-dibromo-3-chloropropane	2.285	2.066	9.6	63	0.00
82 C	1,2,4-trichlorobenzene	5.022	5.886	-17.2	72	0.00
83	naphthalene	12.220	13.461	-10.2	69	0.00
84	1,2,3-trichlorobenzene	4.331	5.196	-20.0	73	0.00
85 C	hexachlorobutadiene	3.571	4.225	-18.3	75	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.437	49	193625	10.000	ppbV	0.00
Standard Area =	222532		Recovery =		87.01%	
33) 1,4-difluorobenzene	5.370	114	718643	10.000	ppbV	0.00
Standard Area =	823848		Recovery =		87.23%	
51) chlorobenzene-D5	7.340	54	62976	10.000	ppbV	# 0.00
Standard Area =	84248		Recovery =		74.75%	
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	4.810	65	141843	7.203	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		72.03%	
53) toluene-D8	6.500	98	762433	10.927	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		109.27%	
67) bromofluorobenzene	8.040	95	473276	10.763	ppbV	0.00
Spiked Amount	10.000	Range 70 - 130	Recovery =		107.63%	
Target Compounds						
						Qvalue
2) propylene	2.145	41	74626	5.983	ppbV	98
3) dichlorodifluoromethane	2.190	85	68964	3.996	ppbV	99
4) chloromethane	2.295	50	41188	4.815	ppbV	100
5) Freon-114	2.355	85	119159	4.658	ppbV	96
6) vinyl chloride	2.425	62	48410	3.995	ppbV	99
7) 1,3-butadiene	2.495	54	38040	4.465	ppbV	92
8) bromomethane	2.625	94	34274	3.764	ppbV	99
9) chloroethane	2.700	64	18608	4.063	ppbV	97
10) ethanol	2.735	31	78580	25.056	ppbV	89
11) vinyl bromide	2.857	106	34206	3.919	ppbV	99
12) acrolein	2.905	56	13824	3.535	ppbV	94
13) acetone	2.962	43	154423	23.406	ppbV	94
14) trichlorofluoromethane	3.049	101	41953	3.941	ppbV	99
15) isopropyl alcohol	3.073	45	110175	9.874	ppbV	100
16) acrylonitrile	3.181	53	27290	3.891	ppbV	99
17) 1,1-dichloroethene	3.350	61	65981	3.635	ppbV	# 86
18) tertiary butyl alcohol	3.365	59	101803	4.128	ppbV	98
19) methylene chloride	3.405	49	79269	5.027	ppbV	95
20) 3-chloropropene	3.460	41	104303	4.888	ppbV	93
21) carbon disulfide	3.550	76	221317	4.849	ppbV	96
22) Freon 113	3.535	101	133645	4.786	ppbV	98
23) trans-1,2-dichloroethene	3.857	61	94155	4.289	ppbV	# 83
24) 1,1-dichloroethane	3.957	63	123661	4.547	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.983	73	171732	4.415	ppbV	97
26) vinyl acetate	4.023	43	114744	3.981	ppbV	94
27) 2-butanone	4.143	43	138500	4.158	ppbV	92
28) cis-1,2-dichloroethene	4.357	61	86864	4.423	ppbV	98
29) Ethyl Acetate	4.463	61	26175	5.112	ppbV	59
30) chloroform	4.503	83	105712	4.104	ppbV	99
31) Tetrahydrofuran	4.690	42	93894	4.529	ppbV	98
32) 1,2-dichloroethane	4.857	62	44486	3.171	ppbV #	85
34) hexane	4.463	57	126041	4.981	ppbV	81
36) 1,1,1-trichloroethane	4.983	97	78724	3.477	ppbV #	96
37) benzene	5.203	78	260534	4.785	ppbV	97
38) carbon tetrachloride	5.277	117	72912	3.560	ppbV	100
39) cyclohexane	5.337	56	143664	5.098	ppbV	95
40) Dibromomethane	5.577	93	63146	4.388	ppbV #	98
41) 1,2-dichloropropane	5.590	63	89127	4.732	ppbV #	97
42) bromodichloromethane	5.683	83	110682	4.268	ppbV	99
43) 1,4-dioxane	5.697	88	61620	5.097	ppbV	92
44) trichloroethene	5.703	130	122000	4.968	ppbV	99
45) 2,2,4-trimethylpentane	5.717	57	407928	5.051	ppbV	96
46) heptane	5.837	43	154723	4.891	ppbV	96
47) cis-1,3-dichloropropene	6.093	75	124793	4.607	ppbV	95
48) 4-methyl-2-pentanone	6.107	43	170472	4.829	ppbV	98
49) trans-1,3-dichloropropene	6.333	75	90455	4.205	ppbV	95
50) 1,1,2-trichloroethane	6.413	97	99644	4.906	ppbV	96
52) toluene	6.540	91	305992	5.559	ppbV	99
54) 2-hexanone	6.653	43	154101	4.968	ppbV #	92
55) dibromochloromethane	6.733	129	131262	5.379	ppbV	99
56) 1,2-dibromoethane	6.847	107	136541	5.285	ppbV	99
57) tetrachloroethene	7.053	166	125802	5.473	ppbV	99
58) 1,1,1,2-tetrachloroethane	7.353	131	93472	4.764	ppbV	98
59) chlorobenzene	7.360	112	251919	5.506	ppbV	97
60) ethylbenzene	7.527	91	358563	5.358	ppbV	97
61) m+p-xylene	7.607	91	572237	10.815	ppbV	98
62) bromoform	7.653	173	101481	5.521	ppbV	99
63) styrene	7.773	104	259519	5.903	ppbV	99
64) 1,1,2,2-tetrachloroethane	7.820	83	205775	5.554	ppbV	99
65) o-xylene	7.827	91	284046	5.405	ppbV	95
66) 1,2,3-Trichloropropane	7.887	75	141826	4.879	ppbV	97
68) isopropylbenzene	8.100	105	363109	5.323	ppbV	100
69) Bromobenzene	8.153	77	198285	5.093	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
 Data File : r221901_Ev2.D
 Acq On : 30 Nov 2023 4:55 PM
 Operator : AIRLAB22:RAY
 Sample : CTO15-SIMSTD5.0
 Misc : WG1858561
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
 Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\r221893_Ev2.D
 Sub List : Default - All compounds listed

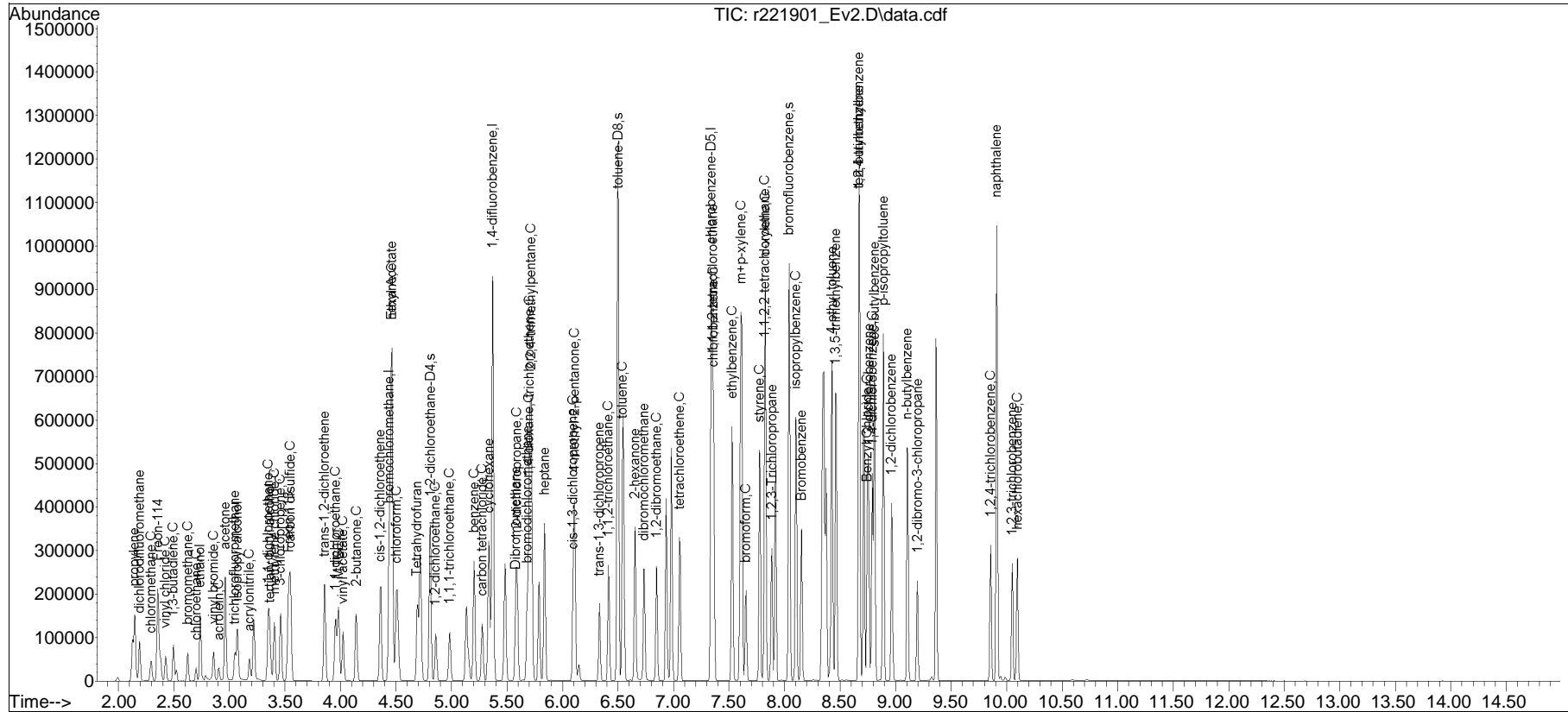
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	8.427	105	401534	5.639	ppbV	96
71) 1,3,5-trimethylbenzene	8.460	105	339580	5.566	ppbV	100
72) tert-butylbenzene	8.670	119	325140	5.317	ppbV	98
73) 1,2,4-trimethylbenzene	8.670	105	326718	5.530	ppbV	94
74) Benzyl Chloride	8.743	91	191422	5.778	ppbV	93
75) 1,3-dichlorobenzene	8.757	146	266572	5.711	ppbV	93
76) 1,4-dichlorobenzene	8.790	146	269394	5.882	ppbV	93
77) sec-butylbenzene	8.810	105	457198	5.355	ppbV	96
78) p-isopropyltoluene	8.890	119	374661	5.140	ppbV	95
79) 1,2-dichlorobenzene	8.963	146	252211	5.737	ppbV	93
80) n-butylbenzene	9.103	91	350698	5.427	ppbV	89
81) 1,2-dibromo-3-chloropr...	9.197	75	65056	4.522	ppbV	84
82) 1,2,4-trichlorobenzene	9.857	180	185345	5.861	ppbV	95
83) naphthalene	9.910	128	423859	5.508	ppbV	100
84) 1,2,3-trichlorobenzene	10.053	180	163610	5.998	ppbV	97
85) hexachlorobutadiene	10.098	225	133038	5.916	ppbV	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default - All compounds listed3\11\1129SIM_I\r221893_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\
Data File : r221901_Ev2.D
Acq On : 30 Nov 2023 4:55 PM
Operator : AIRLAB22:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1858561
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 03 08:17:16 2023
Quant Method : O:\Forensics\Data\Airlab22\2023\11\1129SIM_I\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r221901_Ev2.D Operator : AIRLAB22:RAY
Date Inj'd : 11/30/2020 0:4: 5 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 12/3/2023 8:17 am

There are no manual integrations or false positives in this file.

Continuing Calibration

Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Lab File ID : R223418_EV2
 Sample No : WG1902106-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/28/24 14:21
 Init. Calib. Date(s) : 11/29/23 11/30/23
 Init. Calib. Times : 21:09 01:51

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	121	0
propylene	0.644	0.656	-	-1.9	30	136	.02
dichlorodifluoromethane	0.891	0.986	-	-10.7	30	128	.02
chloromethane	0.442	0.466	-	-5.4	30	132	.02
Freon-114	1.321	1.429	-	-8.2	30	132	.02
vinyl chloride	0.626	0.613	-	2.1	30	125	.01
1,3-butadiene	0.44	0.477	-	-8.4	30	138	.02
bromomethane	0.47	0.456	-	3	30	126	.02
chloroethane	0.237	0.268	-	-13.1	30	147	0
ethanol	0.162	0.153	-	5.6	30	110	0
vinyl bromide	0.451	0.459	-	-1.8	30	125	.01
acrolein	0.202	0.193	-	4.5	30	127	.01
acetone	0.341	0.388	-	-13.8	30	142	.01
trichlorofluoromethane	0.55	0.589	-	-7.1	30	133	.01
isopropyl alcohol	0.576	0.598	-	-3.8	30	129	.01
acrylonitrile	0.362	0.39	-	-7.7	30	133	0
1,1-dichloroethene	0.937	1.002	-	-6.9	30	128	0
tertiary butyl alcohol	1.274	1.409	-	-10.6	30	128	0
methylene chloride	0.814	0.773	-	5	30	118	.01
3-chloropropene	1.102	1.121	-	-1.7	30	127	.01
carbon disulfide	2.357	1.984	-	15.8	30	104	0
Freon 113	1.442	1.258	-	12.8	30	110	0
trans-1,2-dichloroethene	1.134	0.995	-	12.3	30	114	.01
1,1-dichloroethane	1.404	1.287	-	8.3	30	114	0
MTBE	2.009	1.873	-	6.8	30	117	.01
vinyl acetate	1.489	1.298	-	12.8	30	112	.01
2-butanone	1.72	1.527	-	11.2	30	110	0
cis-1,2-dichloroethene	1.014	0.934	-	7.9	30	115	0
Ethyl Acetate	0.264	0.257	-	2.7	30	118	.01
chloroform	1.33	1.231	-	7.4	30	115	.01
Tetrahydrofuran	1.071	1.005	-	6.2	30	116	0
1,2-dichloroethane	0.725	0.731	-	-0.8	30	128	0
1,4-difluorobenzene	1	1	-	0	30	102	0
hexane	0.352	0.405	-	-15.1	30	116	.01
1,1,1-trichloroethane	0.315	0.348	-	-10.5	30	118	.01
benzene	0.758	0.76	-	-0.3	30	103	0
carbon tetrachloride	0.285	0.322	-	-13	30	116	0
cyclohexane	0.392	0.446	-	-13.8	30	116	0
Dibromomethane	0.2	0.202	-	-1	30	106	0
1,2-dichloropropane	0.262	0.272	-	-3.8	30	109	0
bromodichloromethane	0.361	0.417	-	-15.5	30	121	0
1,4-dioxane	0.168	0.18	-	-7.1	30	117	0
trichloroethene	0.342	0.339	-	0.9	30	103	0

* Value outside of QC limits.



Calibration Verification Summary

Form 7

Air Volatiles

Client : Stantec
 Project Name : BELLE HARBOR
 Instrument ID : AIRLAB22
 Lab File ID : R223418_EV2
 Sample No : WG1902106-2
 Channel :

Lab Number : L2414212
 Project Number : 195601412
 Calibration Date : 03/28/24 14:21
 Init. Calib. Date(s) : 11/29/23 11/30/23
 Init. Calib. Times : 21:09 01:51

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.124	1.307	-	-16.3	30	117	0
heptane	0.44	0.527	-	-19.8	30	122	0
cis-1,3-dichloropropene	0.377	0.4	-	-6.1	30	110	0
4-methyl-2-pentanone	0.491	0.627	-	-27.7	30	124	0
trans-1,3-dichloropropene	0.299	0.324	-	-8.4	30	111	0
1,1,2-trichloroethane	0.283	0.287	-	-1.4	30	105	0
chlorobenzene-D5	1	1	-	0	30	126	0
toluene	8.74	7.087	-	18.9	30	103	0
2-hexanone	4.926	4.528	-	8.1	30	120	0
dibromochloromethane	3.875	3.392	-	12.5	30	115	0
1,2-dibromoethane	4.102	3.238	-	21.1	30	103	0
tetrachloroethene	3.65	2.801	-	23.3	30	99	0
1,1,1,2-tetrachloroethane	3.116	2.51	-	19.4	30	105	0
chlorobenzene	7.265	5.79	-	20.3	30	101	0
ethylbenzene	10.626	8.668	-	18.4	30	103	0
m+p-xylene	8.402	7.236	-	13.9	30	106	0
bromoform	2.919	2.489	-	14.7	30	111	0
styrene	6.981	5.758	-	17.5	30	98	0
1,1,2,2-tetrachloroethane	5.883	4.918	-	16.4	30	104	0
o-xylene	8.344	7.351	-	11.9	30	109	0
1,2,3-Trichloropropane	4.616	3.952	-	14.4	30	109	0
isopropylbenzene	10.832	9.323	-	13.9	30	106	0
Bromobenzene	6.182	5.295	-	14.3	30	107	0
4-ethyl toluene	11.306	9.515	-	15.8	30	104	0
1,3,5-trimethylbenzene	9.687	8.591	-	11.3	30	103	0
tert-butylbenzene	9.709	8.501	-	12.4	30	102	0
1,2,4-trimethylbenzene	9.381	8.298	-	11.5	30	103	0
Benzyl Chloride	5.261	5.004	-	4.9	30	110	0
1,3-dichlorobenzene	7.412	5.902	-	20.4	30	93	0
1,4-dichlorobenzene	7.272	5.84	-	19.7	30	94	0
sec-butylbenzene	13.556	11.753	-	13.3	30	103	0
p-isopropyltoluene	11.575	9.61	-	17	30	95	0
1,2-dichlorobenzene	6.981	5.424	-	22.3	30	91	0
n-butylbenzene	10.262	9.313	-	9.2	30	106	0
1,2-dibromo-3-chloropropan	2.285	2.191	-	4.1	30	112	0
1,2,4-trichlorobenzene	5.022	3.618	-	28	30	75	0
naphthalene	12.22	10.43	-	14.6	30	90	0
1,2,3-trichlorobenzene	4.331	3.477	-	19.7	30	82	0
hexachlorobutadiene	3.571	3.025	-	15.3	30	91	0

* Value outside of QC limits.



Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	bromochloromethane	1.000	1.000	0.0	121	0.00
2	propylene	0.644	0.656	-1.9	136	0.02
3	dichlorodifluoromethane	0.891	0.986	-10.7	128	0.02
4 C	chloromethane	0.442	0.466	-5.4	132	0.02
5	Freon-114	1.321	1.429	-8.2	132	0.02
6 C	vinyl chloride	0.626	0.613	2.1	125	0.01
7 C	1,3-butadiene	0.440	0.477	-8.4	138	0.02
8 C	bromomethane	0.470	0.456	3.0	126	0.02
9 C	chloroethane	0.237	0.268	-13.1	147#	0.00
10	ethanol	0.162	0.153	5.6	110	0.00
11 C	vinyl bromide	0.451	0.459	-1.8	125	0.01
12 C	acrolein	0.202	0.193	4.5	127	0.01
13	acetone	0.341	0.388	-13.8	142#	0.01
14	trichlorofluoromethane	0.550	0.589	-7.1	133	0.01
15	isopropyl alcohol	0.576	0.598	-3.8	129	0.01
16 C	acrylonitrile	0.362	0.390	-7.7	133	0.00
17 C	1,1-dichloroethene	0.937	1.002	-6.9	128	0.00
18	tertiary butyl alcohol	1.274	1.409	-10.6	128	0.00
19 C	methylene chloride	0.814	0.773	5.0	118	0.01
20 C	3-chloropropene	1.102	1.121	-1.7	127	0.01
21 C	carbon disulfide	2.357	1.984	15.8	104	0.00
22	Freon 113	1.442	1.258	12.8	110	0.00
23	trans-1,2-dichloroethene	1.134	0.995	12.3	114	0.01
24 C	1,1-dichloroethane	1.404	1.287	8.3	114	0.00
25 C	MTBE	2.009	1.873	6.8	117	0.01
26 C	vinyl acetate	1.489	1.298	12.8	112	0.01
27 C	2-butanone	1.720	1.527	11.2	110	0.00
28	cis-1,2-dichloroethene	1.014	0.934	7.9	115	0.00
29	Ethyl Acetate	0.264	0.257	2.7	118	0.01
30 C	chloroform	1.330	1.231	7.4	115	0.01
31	Tetrahydrofuran	1.071	1.005	6.2	116	0.00
32 C	1,2-dichloroethane	0.725	0.731	-0.8	128	0.00
33 I	1,4-difluorobenzene	1.000	1.000	0.0	102	0.00
34 C	hexane	0.352	0.405	-15.1	116	0.01
36 C	1,1,1-trichloroethane	0.315	0.348	-10.5	118	0.01
37 C	benzene	0.758	0.760	-0.3	103	0.00
38 C	carbon tetrachloride	0.285	0.322	-13.0	116	0.00
39	cyclohexane	0.392	0.446	-13.8	116	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40	Dibromomethane	0.200	0.202	-1.0	106	0.00
41 C	1,2-dichloropropane	0.262	0.272	-3.8	109	0.00
42	bromodichloromethane	0.361	0.417	-15.5	121	0.00
43 C	1,4-dioxane	0.168	0.180	-7.1	117	0.00
44 C	trichloroethene	0.342	0.339	0.9	103	0.00
45 C	2,2,4-trimethylpentane	1.124	1.307	-16.3	117	0.00
46	heptane	0.440	0.527	-19.8	122	0.00
47 C	cis-1,3-dichloropropene	0.377	0.400	-6.1	110	0.00
48 C	4-methyl-2-pentanone	0.491	0.627	-27.7	124	0.00
49	trans-1,3-dichloropropene	0.299	0.324	-8.4	111	0.00
50 C	1,1,2-trichloroethane	0.283	0.287	-1.4	105	0.00
51 I	chlorobenzene-D5	1.000	1.000	0.0	126	0.00
52 C	toluene	8.740	7.087	18.9	103	0.00
54	2-hexanone	4.926	4.528	8.1	120	0.00
55	dibromochloromethane	3.875	3.392	12.5	115	0.00
56 C	1,2-dibromoethane	4.102	3.238	21.1	103	0.00
57 C	tetrachloroethene	3.650	2.801	23.3	99	0.00
58	1,1,1,2-tetrachloroethane	3.116	2.510	19.4	105	0.00
59 C	chlorobenzene	7.265	5.790	20.3	101	0.00
60 C	ethylbenzene	10.626	8.668	18.4	103	0.00
61 C	m+p-xylene	8.402	7.236	13.9	106	0.00
62 C	bromoform	2.919	2.489	14.7	111	0.00
63 C	styrene	6.981	5.758	17.5	98	0.00
64 C	1,1,2,2-tetrachloroethane	5.883	4.918	16.4	104	0.00
65 C	o-xylene	8.344	7.351	11.9	109	0.00
66	1,2,3-Trichloropropane	4.616	3.952	14.4	109	0.00
68 C	isopropylbenzene	10.832	9.323	13.9	106	0.00
69	Bromobenzene	6.182	5.295	14.3	107	0.00
70	4-ethyl toluene	11.306	9.515	15.8	104	0.00
71	1,3,5-trimethylbenzene	9.687	8.591	11.3	103	0.00
72	tert-butylbenzene	9.709	8.501	12.4	102	0.00
73	1,2,4-trimethylbenzene	9.381	8.298	11.5	103	0.00
74 C	Benzyl Chloride	5.261	5.004	4.9	110	0.00
75	1,3-dichlorobenzene	7.412	5.902	20.4	93	0.00
76 C	1,4-dichlorobenzene	7.272	5.840	19.7	94	0.00
77	sec-butylbenzene	13.556	11.753	13.3	103	0.00
78	p-isopropyltoluene	11.575	9.610	17.0	95	0.00
79	1,2-dichlorobenzene	6.981	5.424	22.3	91	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	10.262	9.313	9.2	106	0.00
81	1,2-dibromo-3-chloropropane	2.285	2.191	4.1	112	0.00
82 C	1,2,4-trichlorobenzene	5.022	3.618	28.0	75	0.00
83	naphthalene	12.220	10.430	14.6	90	0.00
84	1,2,3-trichlorobenzene	4.331	3.477	19.7	82	0.00
85 C	hexachlorobutadiene	3.571	3.025	15.3	91	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.450	49	268768	10.000	ppbV	0.00
Standard Area =	268768		Recovery =	100.00%		
33) 1,4-difluorobenzene	5.377	114	838879	10.000	ppbV	0.00
Standard Area =	838879		Recovery =	100.00%		
51) chlorobenzene-D5	7.347	54	106366	10.000	ppbV	0.00
Standard Area =	106366		Recovery =	100.00%		

System Monitoring Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) propylene	2.170	41	88157M6	5.092	ppbV	
3) dichlorodifluoromethane	2.210	85	132452	5.529	ppbV	99
4) chloromethane	2.315	50	62631	5.275	ppbV	99
5) Freon-114	2.380	85	191983	5.407	ppbV	96
6) vinyl chloride	2.445	62	82439	4.901	ppbV	100
7) 1,3-butadiene	2.515	54	64094	5.420	ppbV	94
8) bromomethane	2.640	94	61232	4.845	ppbV	100
9) chloroethane	2.715	64	36037	5.669	ppbV	98
10) ethanol	2.750	31	102506	23.547	ppbV	97
11) vinyl bromide	2.872	106	61649	5.089	ppbV	100
12) acrolein	2.920	56	25963	4.783	ppbV	96
13) acetone	2.977	43	260928	28.491	ppbV	98
14) trichlorofluoromethane	3.064	101	79208	5.360	ppbV	99
15) isopropyl alcohol	3.085	45	200978	12.976	ppbV	100
16) acrylonitrile	3.193	53	52351	5.377	ppbV	99
17) 1,1-dichloroethene	3.360	61	134702	5.346	ppbV	91
18) tertiary butyl alcohol	3.375	59	189351	5.531	ppbV	95
19) methylene chloride	3.415	49	103834	4.744	ppbV	94
20) 3-chloropropene	3.475	41	150683	5.087	ppbV	95
21) carbon disulfide	3.565	76	266641	4.209	ppbV	96
22) Freon 113	3.545	101	169045	4.361	ppbV	96
23) trans-1,2-dichloroethene	3.870	61	133776	4.390	ppbV	96
24) 1,1-dichloroethane	3.963	63	172951	4.582	ppbV	99
25) MTBE	3.997	73	251734	4.663	ppbV	98
26) vinyl acetate	4.037	43	174491	4.361	ppbV	99
27) 2-butanone	4.150	43	205232	4.439	ppbV	94
28) cis-1,2-dichloroethene	4.370	61	125520	4.604	ppbV	90
29) Ethyl Acetate	4.477	61	34552	4.862	ppbV	80
30) chloroform	4.517	83	165374	4.625	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
31) Tetrahydrofuran	4.703	42	134997	4.691	ppbV	94
32) 1,2-dichloroethane	4.870	62	98200	5.042	ppbV	96
34) hexane	4.477	57	170033	5.757	ppbV	90
36) 1,1,1-trichloroethane	4.997	97	145846	5.519	ppbV	96
37) benzene	5.210	78	318923	5.018	ppbV	97
38) carbon tetrachloride	5.283	117	135118	5.652	ppbV	99
39) cyclohexane	5.343	56	187220	5.692	ppbV	95
40) Dibromomethane	5.590	93	84802	5.049	ppbV #	94
41) 1,2-dichloropropane	5.597	63	113979	5.184	ppbV #	97
42) bromodichloromethane	5.690	83	174793	5.774	ppbV	99
43) 1,4-dioxane	5.703	88	75502	5.350	ppbV	97
44) trichloroethene	5.710	130	142293	4.964	ppbV	99
45) 2,2,4-trimethylpentane	5.723	57	548081	5.814	ppbV	95
46) heptane	5.843	43	221108	5.988	ppbV	98
47) cis-1,3-dichloropropene	6.107	75	167816	5.307	ppbV	95
48) 4-methyl-2-pentanone	6.113	43	262972	6.381	ppbV #	91
49) trans-1,3-dichloropropene	6.340	75	136013	5.417	ppbV	98
50) 1,1,2-trichloroethane	6.420	97	120283	5.073	ppbV #	91
52) toluene	6.547	91	376886	4.054	ppbV	99
54) 2-hexanone	6.660	43	240808	4.596	ppbV	98
55) dibromochloromethane	6.740	129	180392	4.376	ppbV	99
56) 1,2-dibromoethane	6.853	107	172206	3.947	ppbV	99
57) tetrachloroethene	7.060	166	148971	3.837	ppbV #	94
58) 1,1,1,2-tetrachloroethane	7.360	131	133510	4.029	ppbV	100
59) chlorobenzene	7.367	112	307942	3.985	ppbV	93
60) ethylbenzene	7.533	91	460973	4.079	ppbV	95
61) m+p-xylene	7.613	91	769714	8.613	ppbV	95
62) bromoform	7.653	173	132380	4.264	ppbV	99
63) styrene	7.780	104	306205	4.124	ppbV	96
64) 1,1,2,2-tetrachloroethane	7.827	83	261539	4.180	ppbV	99
65) o-xylene	7.833	91	390949	4.405	ppbV	99
66) 1,2,3-Trichloropropane	7.887	75	210161	4.280	ppbV	97
68) isopropylbenzene	8.107	105	495830	4.304	ppbV	98
69) Bromobenzene	8.153	77	281583	4.282	ppbV	93
70) 4-ethyl toluene	8.427	105	506058	4.208	ppbV	97
71) 1,3,5-trimethylbenzene	8.467	105	456916	4.434	ppbV	96
72) tert-butylbenzene	8.677	119	452096	4.378	ppbV	99
73) 1,2,4-trimethylbenzene	8.677	105	441339	4.423	ppbV	93
74) Benzyl Chloride	8.750	91	266128	4.756	ppbV	96
75) 1,3-dichlorobenzene	8.757	146	313910M3	3.982	ppbV	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-2,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

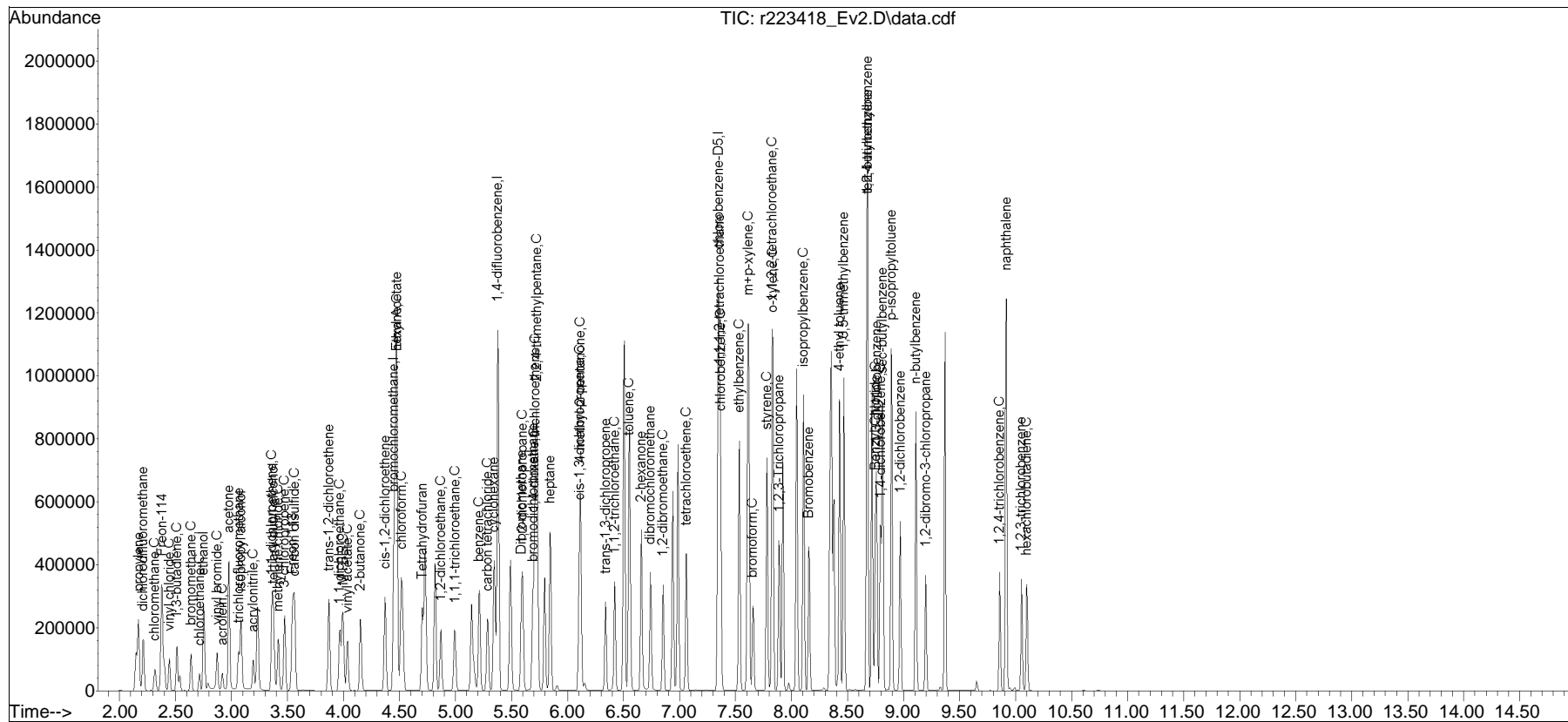
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	8.797	146	310602	4.015	ppbV	94
77) sec-butylbenzene	8.810	105	625068	4.335	ppbV	95
78) p-isopropyltoluene	8.890	119	511066	4.151	ppbV	99
79) 1,2-dichlorobenzene	8.970	146	288463	3.885	ppbV #	89
80) n-butylbenzene	9.110	91	495319	4.538	ppbV	91
81) 1,2-dibromo-3-chloropr...	9.197	75	116528	4.795	ppbV	83
82) 1,2,4-trichlorobenzene	9.857	180	192412	3.602	ppbV #	91
83) naphthalene	9.918	128	554711	4.268	ppbV	97
84) 1,2,3-trichlorobenzene	10.053	180	184943	4.014	ppbV #	89
85) hexachlorobutadiene	10.098	225	160898	4.236	ppbV #	85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223418_Ev2.D
Acq On : 28 Mar 2024 2:21 PM
Operator : AIRLAB22:JMB
Sample : WG1902106-2,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

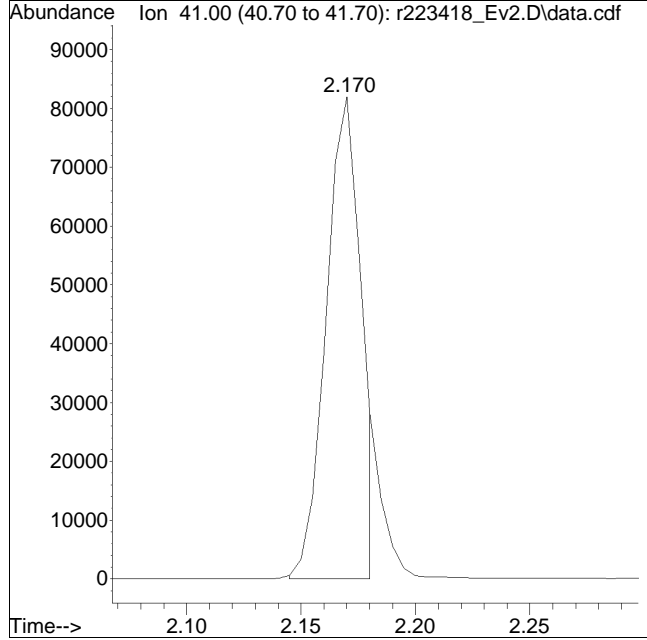
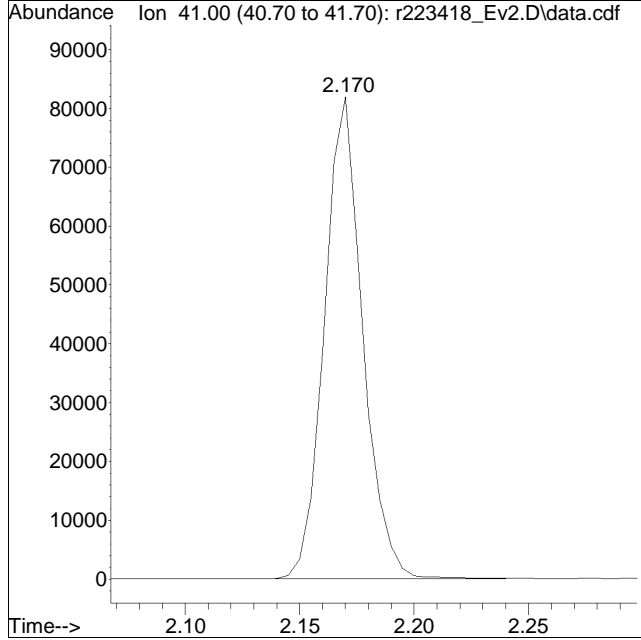
Quant Time: Mar 28 15:02:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223418_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:2: 1 Instrument :
Sample : WG1902106-2,3,250,250 Quant Date : 3/28/2024 3:02 pm

Compound #2: propylene



Original Peak Response = 95209

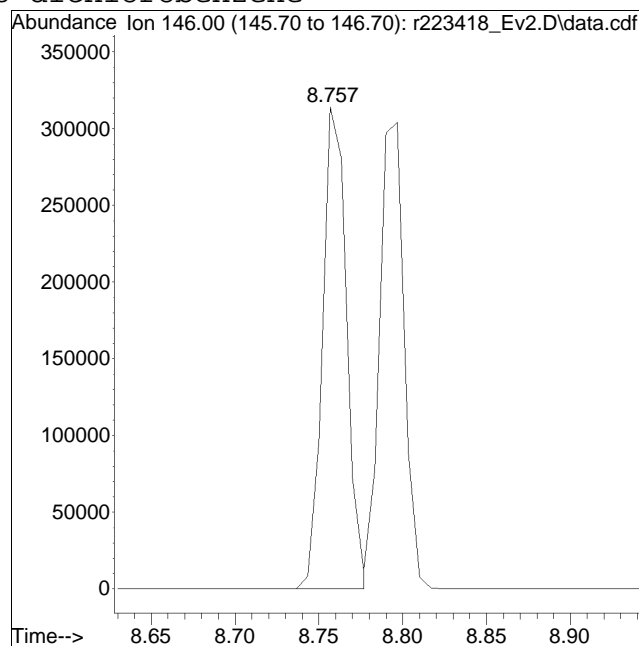
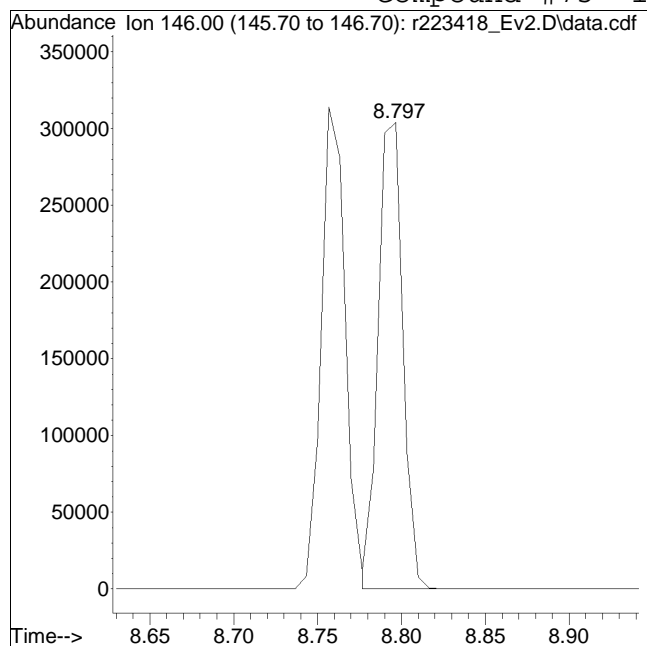
Manual Peak Response = 88157 M6

M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223418_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:2: 1 Instrument :
Sample : WG1902106-2,3,250,250 Quant Date : 3/28/2024 3:02 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 310602

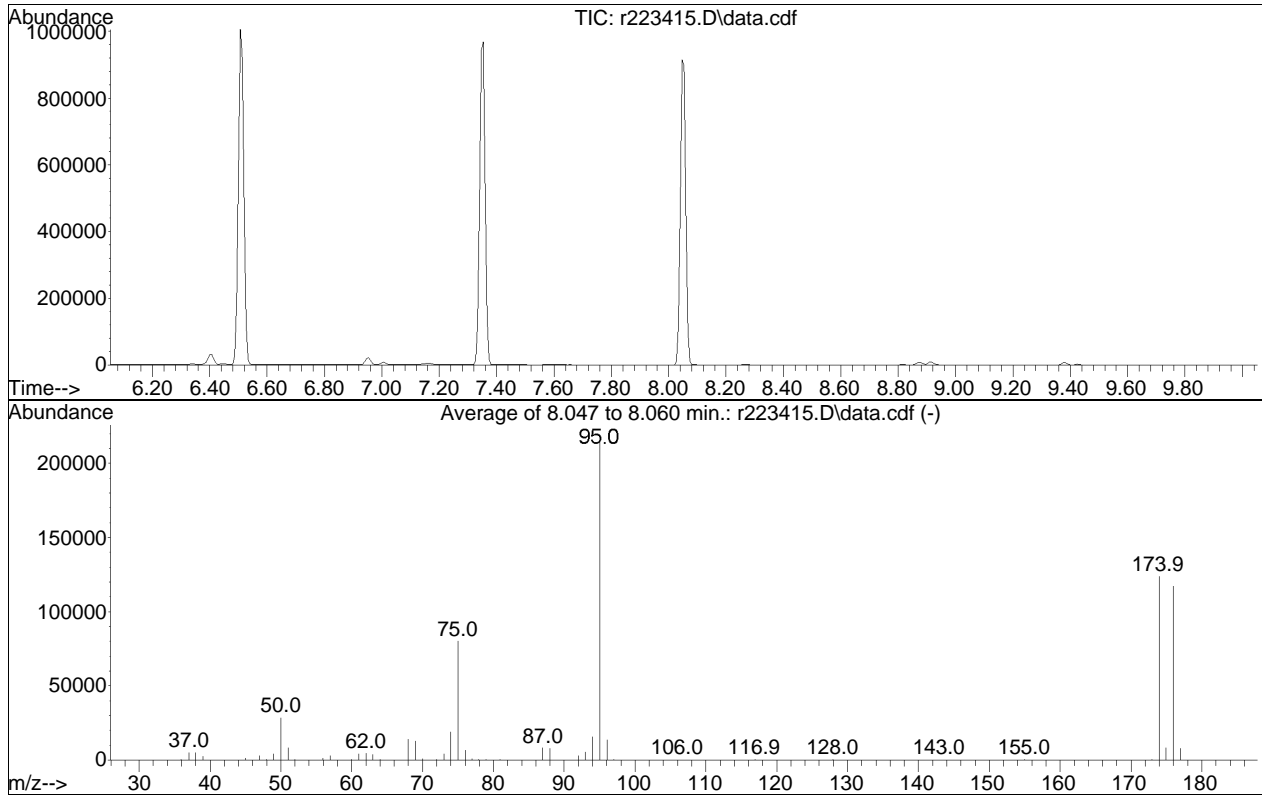
Manual Peak Response = 313910 M3

M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223415.D
 Acq On : 28 Mar 2024 12:41 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-1,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Title : TO-14A/TO-15 SIM/Full Scan Analysis
 Last Update : Sun Dec 03 08:16:38 2023



Spectrum Information: Average of 8.047 to 8.060 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.2	28412	PASS
75	95	30	66	37.2	80021	PASS
95	95	100	100	100.0	215269	PASS
96	95	5	9	6.4	13738	PASS
173	174	0.00	2	0.5	567	PASS
174	95	50	120	57.5	123738	PASS
175	174	4	9	6.7	8339	PASS
176	174	93	101	94.9	117374	PASS
177	176	5	9	6.6	7805	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223420_Ev2.D
 Acq On : 28 Mar 2024 5:13 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-4,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:49:37 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.457	49	249247	10.000	ppbV	0.01
Standard Area =	268768		Recovery =		92.74%	
33) 1,4-difluorobenzene	5.383	114	764445	10.000	ppbV	0.01
Standard Area =	838879		Recovery =		91.13%	
51) chlorobenzene-D5	7.347	54	99737	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =		93.77%	

System Monitoring Compounds

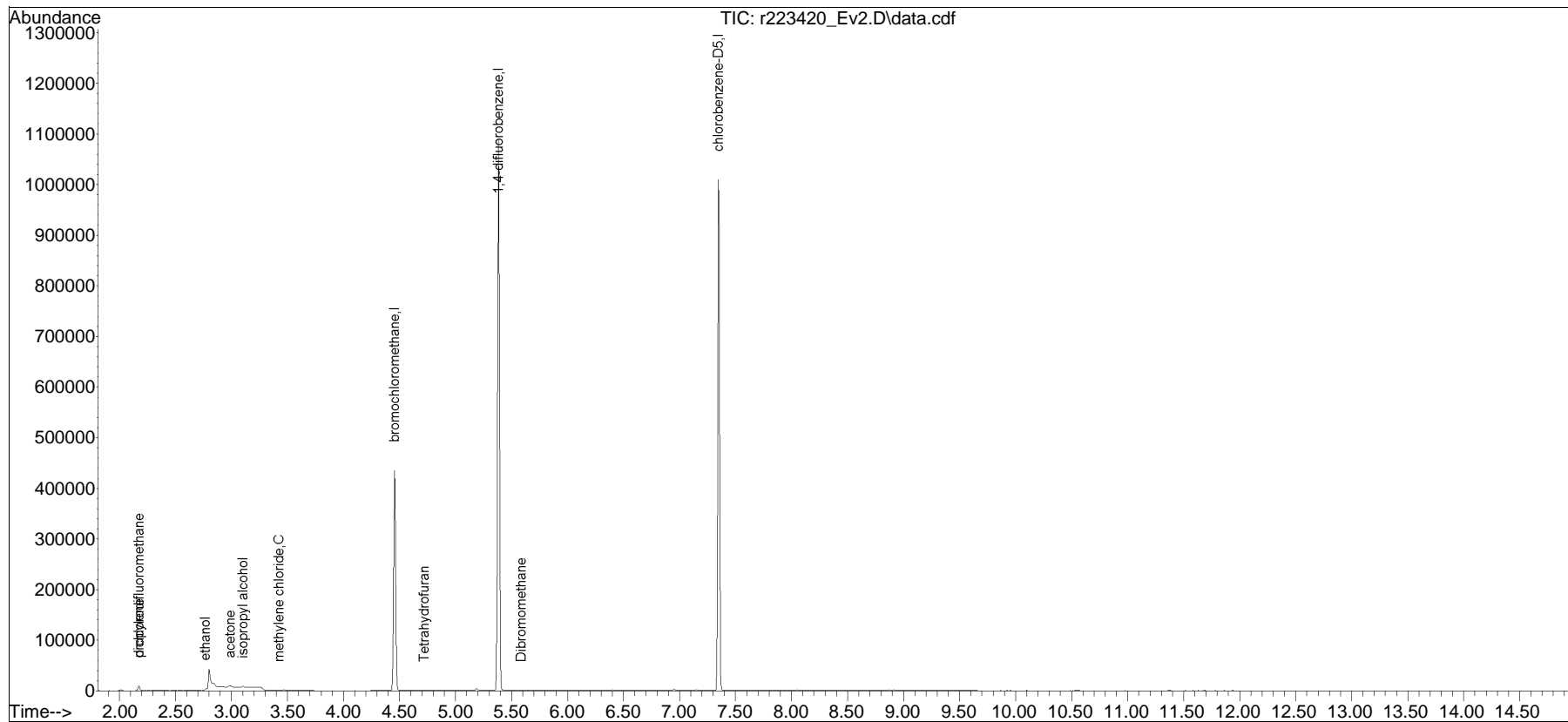
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	0.000		0		N.D.	
44) trichloroethene	0.000		0		N.D.	
57) tetrachloroethene	0.000		0		N.D.	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223420_Ev2.D
Acq On : 28 Mar 2024 5:13 PM
Operator : AIRLAB22:JMB
Sample : WG1902106-4,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:49:37 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223420_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:5: 3 Instrument :
Sample : WG1902106-4,3,250,250 Quant Date : 3/29/2024 2:49 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-3,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	bromochloromethane	10.000	10.000	0.0	121	0.00
2	propylene	5.000	5.092	-1.8	136	0.02
3	dichlorodifluoromethane	5.000	5.529	-10.6	128	0.02
4 C	chloromethane	5.000	5.275	-5.5	132	0.02
5	Freon-114	5.000	5.407	-8.1	132	0.02
6 C	vinyl chloride	5.000	4.901	2.0	125	0.01
7 C	1,3-butadiene	5.000	5.420	-8.4	138	0.02
8 C	bromomethane	5.000	4.845	3.1	126	0.02
9 C	chloroethane	5.000	5.669	-13.4	147	0.00
10	ethanol	25.000	23.547	5.8	110	0.00
11 C	vinyl bromide	5.000	5.089	-1.8	125	0.01
12 C	acrolein	5.000	4.783	4.3	127	0.01
13	acetone	25.000	28.491	-14.0	142	0.01
14	trichlorofluoromethane	5.000	5.360	-7.2	133	0.01
15	isopropyl alcohol	12.500	12.976	-3.8	129	0.01
16 C	acrylonitrile	5.000	5.377	-7.5	133	0.00
17 C	1,1-dichloroethene	5.000	5.346	-6.9	128	0.00
18	tertiary butyl alcohol	5.000	5.531	-10.6	128	0.00
19 C	methylene chloride	5.000	4.744	5.1	118	0.01
20 C	3-chloropropene	5.000	5.087	-1.7	127	0.01
21 C	carbon disulfide	5.000	4.209	15.8	104	0.00
22	Freon 113	5.000	4.361	12.8	110	0.00
23	trans-1,2-dichloroethene	5.000	4.390	12.2	114	0.01
24 C	1,1-dichloroethane	5.000	4.582	8.4	114	0.00
25 C	MTBE	5.000	4.663	6.7	117	0.01
26 C	vinyl acetate	5.000	4.361	12.8	112	0.01
27 C	2-butanone	5.000	4.439	11.2	110	0.00
28	cis-1,2-dichloroethene	5.000	4.604	7.9	115	0.00
29	Ethyl Acetate	5.000	4.862	2.8	118	0.01
30 C	chloroform	5.000	4.625	7.5	115	0.01
31	Tetrahydrofuran	5.000	4.691	6.2	116	0.00
32 C	1,2-dichloroethane	5.000	5.042	-0.8	128	0.00
33 I	1,4-difluorobenzene	10.000	10.000	0.0	102	0.00
34 C	hexane	5.000	5.757	-15.1	116	0.01
36 C	1,1,1-trichloroethane	5.000	5.519	-10.4	118	0.01
37 C	benzene	5.000	5.018	-0.4	103	0.00
38 C	carbon tetrachloride	5.000	5.652	-13.0	116	0.00
39	cyclohexane	5.000	5.692	-13.8	116	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-3,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40	Dibromomethane	5.000	5.049	-1.0	106	0.00
41 C	1,2-dichloropropane	5.000	5.184	-3.7	109	0.00
42	bromodichloromethane	5.000	5.774	-15.5	121	0.00
43 C	1,4-dioxane	5.000	5.350	-7.0	117	0.00
44 C	trichloroethene	5.000	4.964	0.7	103	0.00
45 C	2,2,4-trimethylpentane	5.000	5.814	-16.3	117	0.00
46	heptane	5.000	5.988	-19.8	122	0.00
47 C	cis-1,3-dichloropropene	5.000	5.307	-6.1	110	0.00
48 C	4-methyl-2-pentanone	5.000	6.381	-27.6	124	0.00
49	trans-1,3-dichloropropene	5.000	5.417	-8.3	111	0.00
50 C	1,1,2-trichloroethane	5.000	5.073	-1.5	105	0.00
51 I	chlorobenzene-D5	10.000	10.000	0.0	126	0.00
52 C	toluene	5.000	4.054	18.9	103	0.00
54	2-hexanone	5.000	4.596	8.1	120	0.00
55	dibromochloromethane	5.000	4.376	12.5	115	0.00
56 C	1,2-dibromoethane	5.000	3.947	21.1	103	0.00
57 C	tetrachloroethene	5.000	3.837	23.3	99	0.00
58	1,1,1,2-tetrachloroethane	5.000	4.029	19.4	105	0.00
59 C	chlorobenzene	5.000	3.985	20.3	101	0.00
60 C	ethylbenzene	5.000	4.079	18.4	103	0.00
61 C	m+p-xylene	10.000	8.613	13.9	106	0.00
62 C	bromoform	5.000	4.264	14.7	111	0.00
63 C	styrene	5.000	4.124	17.5	98	0.00
64 C	1,1,2,2-tetrachloroethane	5.000	4.180	16.4	104	0.00
65 C	o-xylene	5.000	4.405	11.9	109	0.00
66	1,2,3-Trichloropropane	5.000	4.280	14.4	109	0.00
68 C	isopropylbenzene	5.000	4.304	13.9	106	0.00
69	Bromobenzene	5.000	4.282	14.4	107	0.00
70	4-ethyl toluene	5.000	4.208	15.8	104	0.00
71	1,3,5-trimethylbenzene	5.000	4.434	11.3	103	0.00
72	tert-butylbenzene	5.000	4.378	12.4	102	0.00
73	1,2,4-trimethylbenzene	5.000	4.423	11.5	103	0.00
74 C	Benzyl Chloride	5.000	4.756	4.9	110	0.00
75	1,3-dichlorobenzene	5.000	3.982	20.4	93	0.00
76 C	1,4-dichlorobenzene	5.000	4.015	19.7	94	0.00
77	sec-butylbenzene	5.000	4.335	13.3	103	0.00
78	p-isopropyltoluene	5.000	4.151	17.0	95	0.00
79	1,2-dichlorobenzene	5.000	3.885	22.3	91	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-3,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
 Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.538	9.2	106	0.00
81	1,2-dibromo-3-chloropropane	5.000	4.795	4.1	112	0.00
82 C	1,2,4-trichlorobenzene	5.000	3.602	28.0	75	0.00
83	naphthalene	5.000	4.268	14.6	90	0.00
84	1,2,3-trichlorobenzene	5.000	4.014	19.7	82	0.00
85 C	hexachlorobutadiene	5.000	4.236	15.3	91	0.00

* Evaluation of CC level amount vs concentration.
 (#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223418_Ev2.D
 Acq On : 28 Mar 2024 2:21 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-3,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 28 15:02:34 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:40 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) bromochloromethane	4.450	49	268768	10.000	ppbV	0.00
Standard Area =	268768		Recovery =	100.00%		
33) 1,4-difluorobenzene	5.377	114	838879	10.000	ppbV	0.00
Standard Area =	838879		Recovery =	100.00%		
51) chlorobenzene-D5	7.347	54	106366	10.000	ppbV	0.00
Standard Area =	106366		Recovery =	100.00%		

System Monitoring Compounds

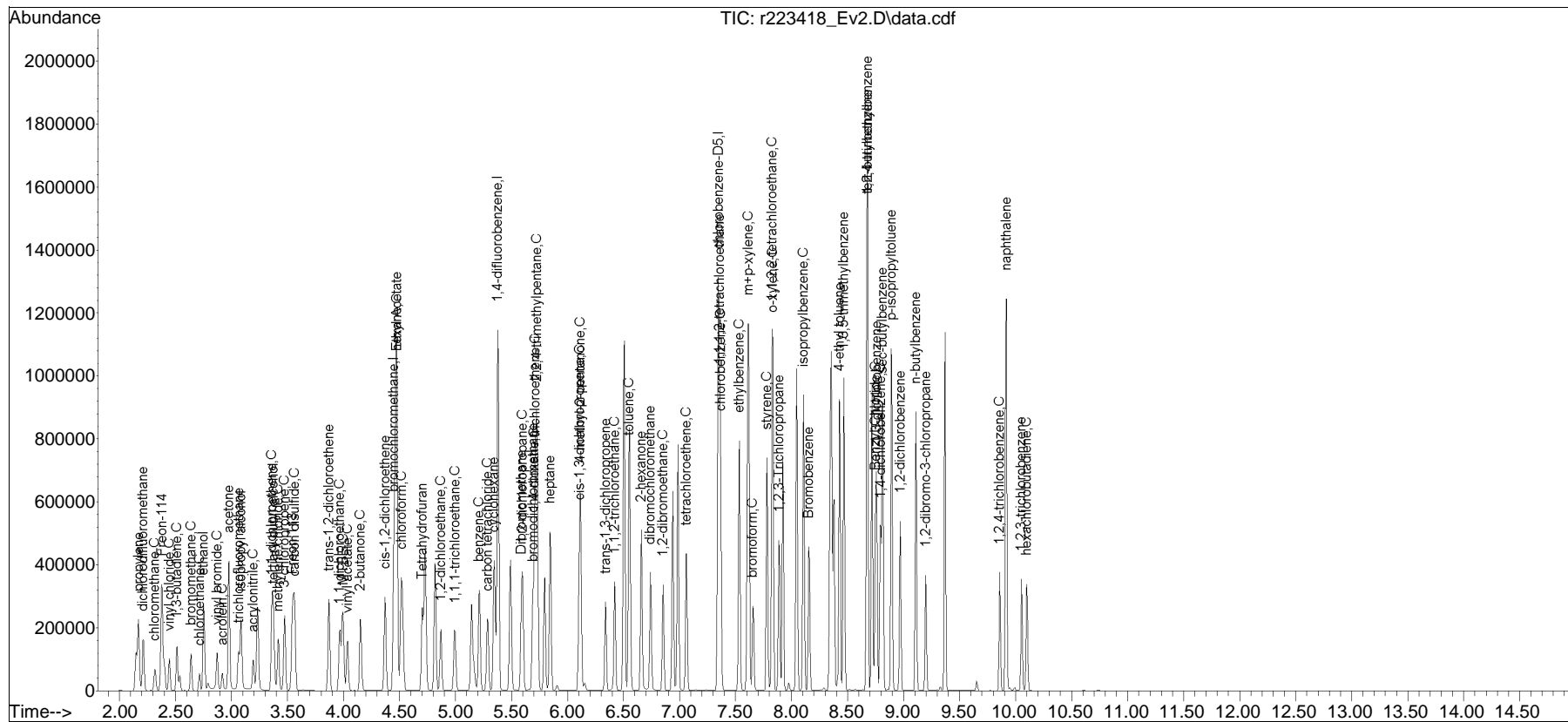
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	2.445	62	82439	4.901	ppbV	100
17) 1,1-dichloroethene	3.360	61	134702	5.346	ppbV	91
28) cis-1,2-dichloroethene	4.370	61	125520	4.604	ppbV	90
36) 1,1,1-trichloroethane	4.997	97	145846	5.519	ppbV	96
38) carbon tetrachloride	5.283	117	135118	5.652	ppbV	99
44) trichloroethene	5.710	130	142293	4.964	ppbV	99
57) tetrachloroethene	7.060	166	148971	3.837	ppbV #	94

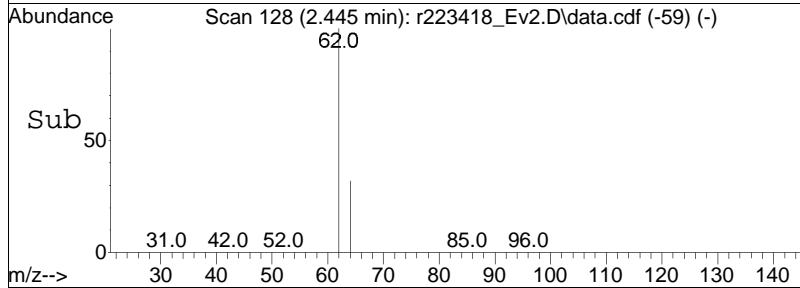
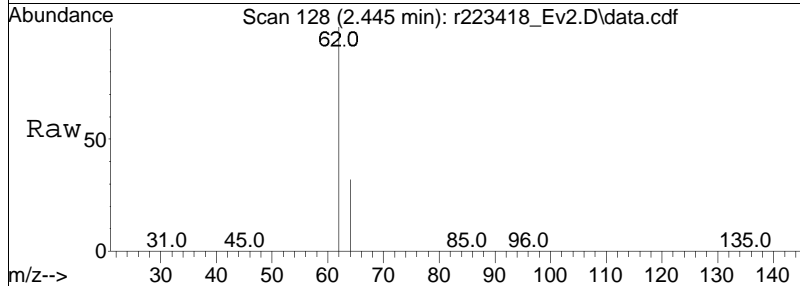
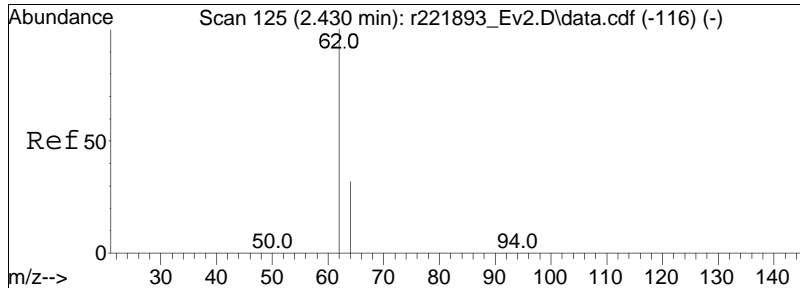
 (#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed8SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223418_Ev2.D
Acq On : 28 Mar 2024 2:21 PM
Operator : AIRLAB22:JMB
Sample : WG1902106-3,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

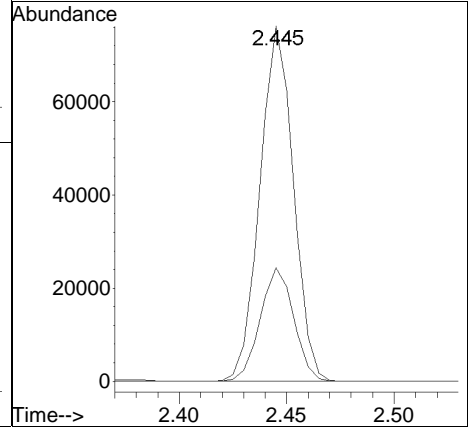
Quant Time: Mar 28 15:02:34 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:40 2023
Response via : Initial Calibration

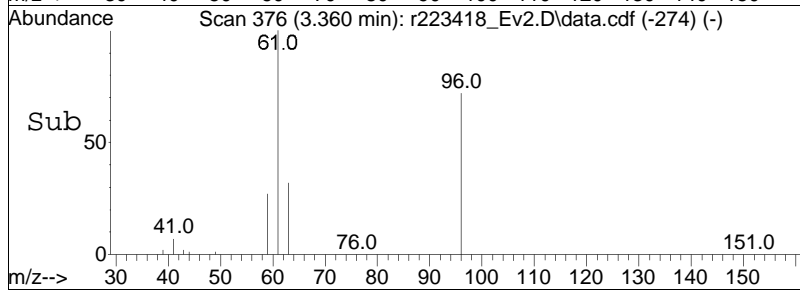
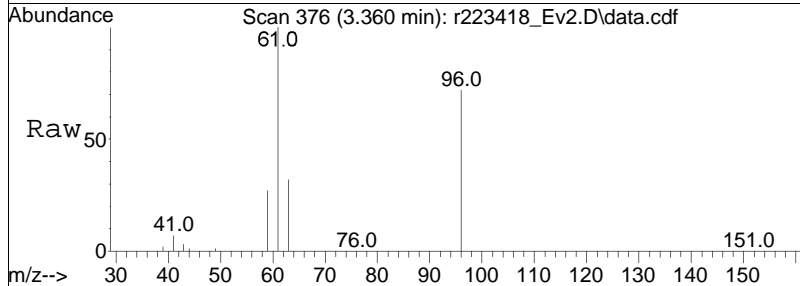
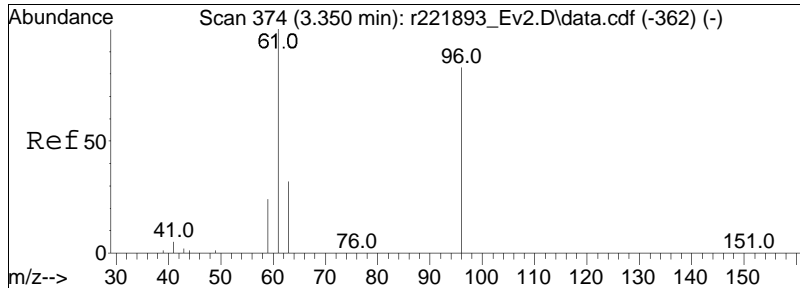




#6
 vinyl chloride
 Concen: 4.90 ppbV
 RT: 2.445 min Scan# 128
 Delta R.T. 0.015 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

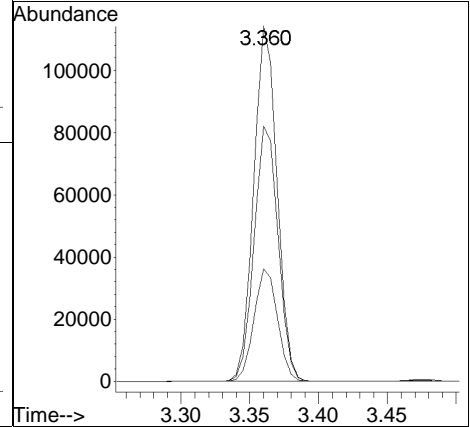
Tgt Ion:	62	Resp:	82439
Ion Ratio	100	Lower	Upper
64	32.0	25.6	38.4

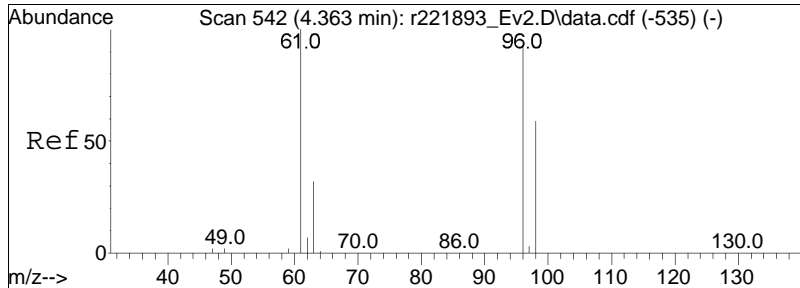




#17
 1,1-dichloroethene
 Concen: 5.35 ppbV
 RT: 3.360 min Scan# 376
 Delta R.T. 0.010 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

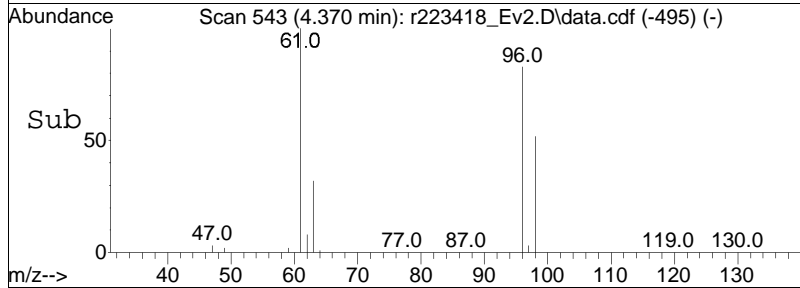
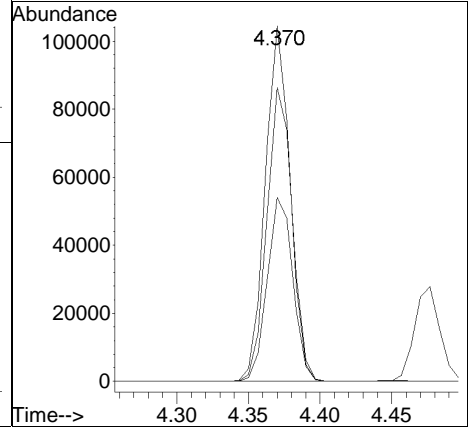
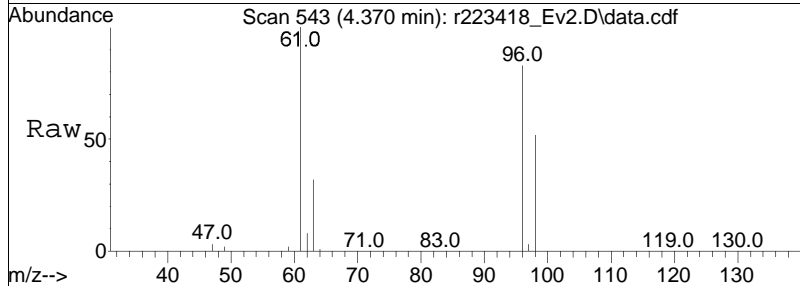
Tgt Ion:	Resp:		
Ion Ratio	Lower	Upper	
61	100		
96	71.8	66.0	99.0
63	31.7	25.7	38.5

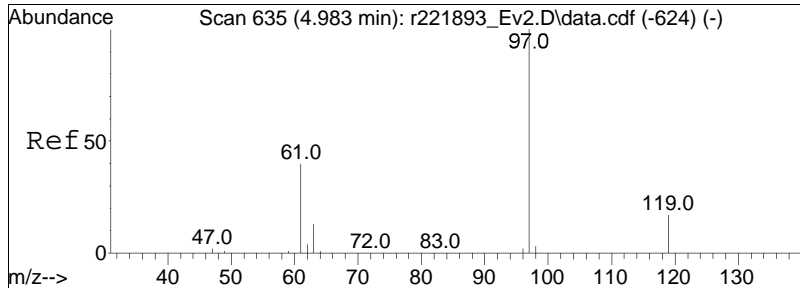




#28
 cis-1,2-dichloroethene
 Concen: 4.60 ppbV
 RT: 4.370 min Scan# 543
 Delta R.T. 0.007 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

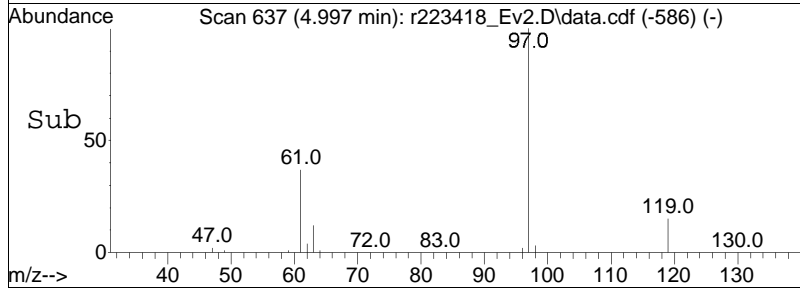
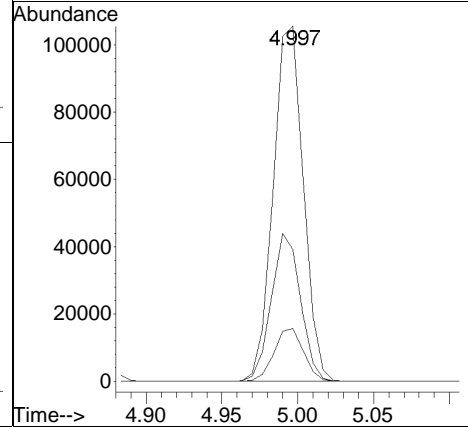
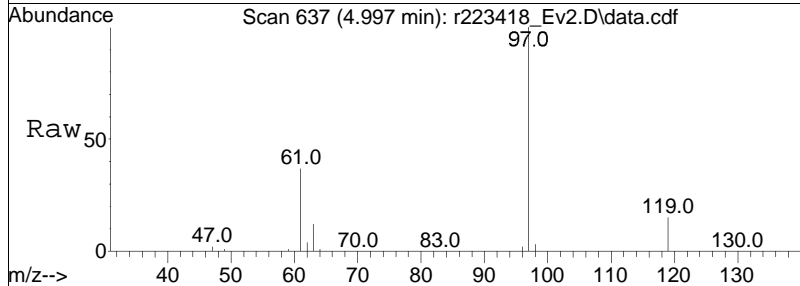
Tgt Ion:	Resp:		
Ion	Ratio	Lower	Upper
61	100		
96	82.7	74.2	111.4
98	51.7	47.5	71.3

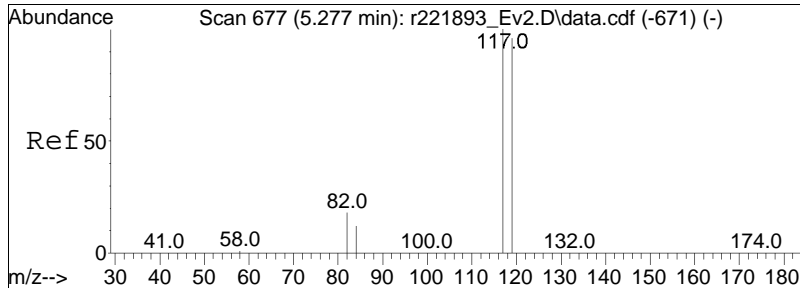




#36
 1,1,1-trichloroethane
 Concen: 5.52 ppbV
 RT: 4.997 min Scan# 637
 Delta R.T. 0.013 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

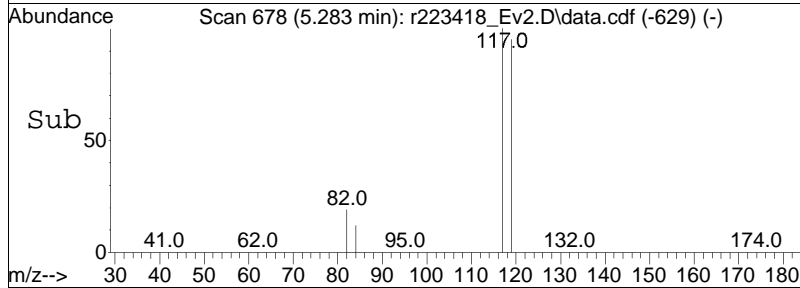
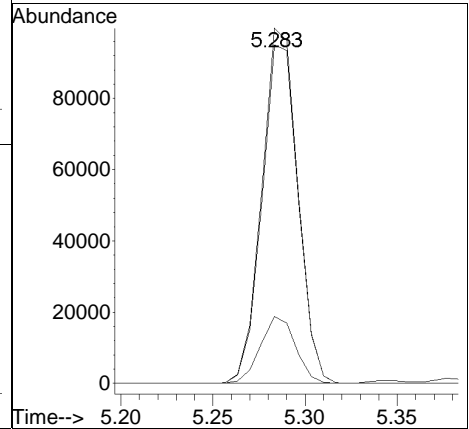
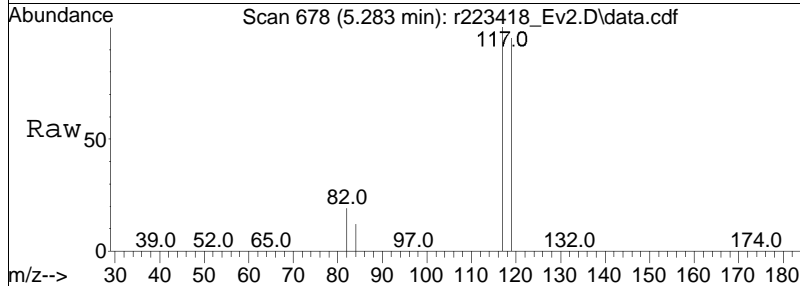
Tgt Ion	Resp	Lower	Upper
97	145846		
61	37.1	32.0	48.0
119	14.9	13.4	20.0

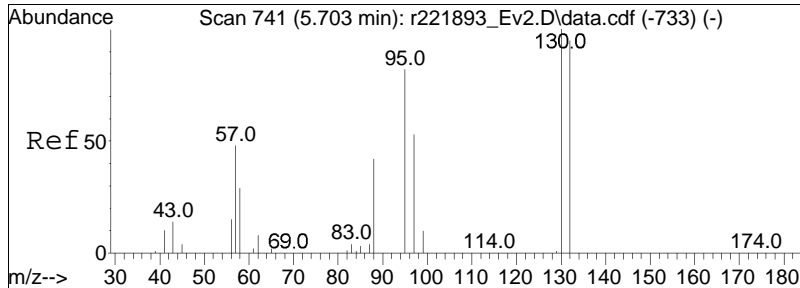




#38
 carbon tetrachloride
 Concen: 5.65 ppbV
 RT: 5.283 min Scan# 678
 Delta R.T. 0.007 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

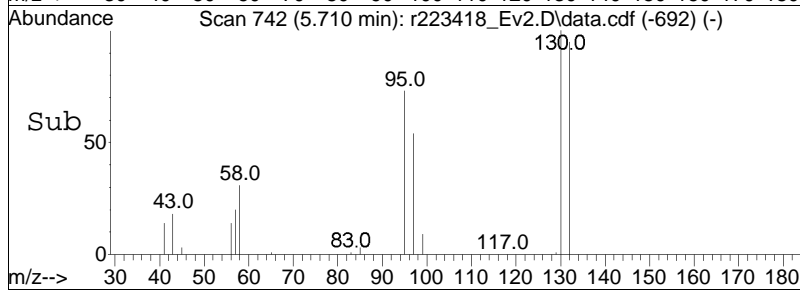
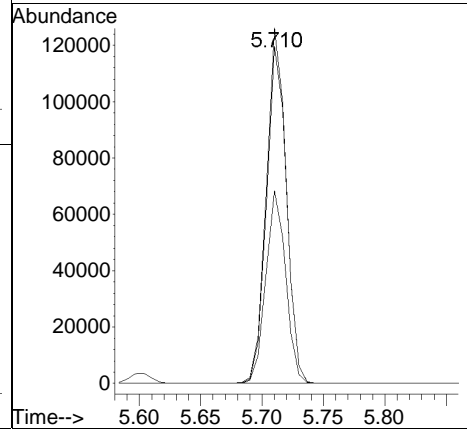
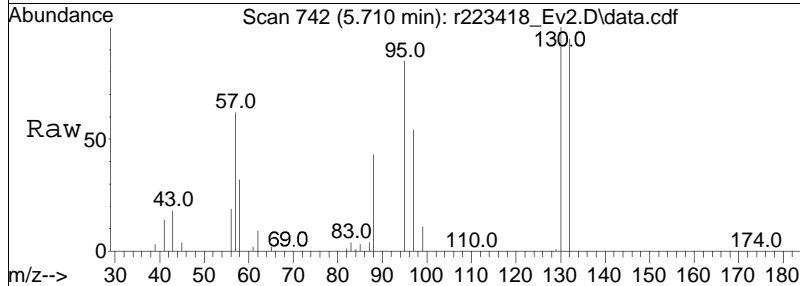
Tgt Ion	Resp	Lower	Upper
117	135118		
119	95.3	76.9	115.3
82	18.8	14.2	21.2

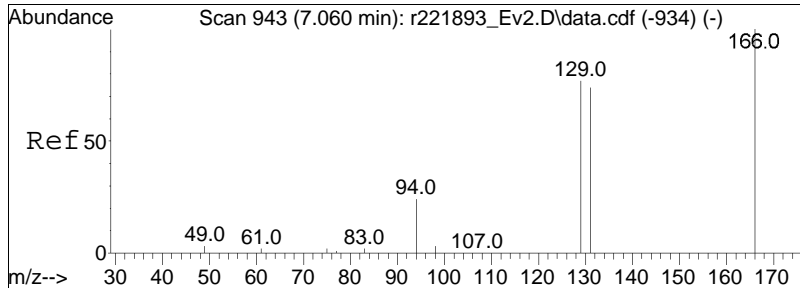




#44
 trichloroethene
 Concen: 4.96 ppbV
 RT: 5.710 min Scan# 742
 Delta R.T. 0.007 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

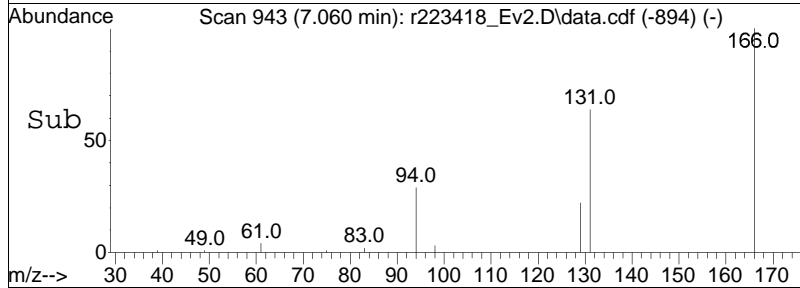
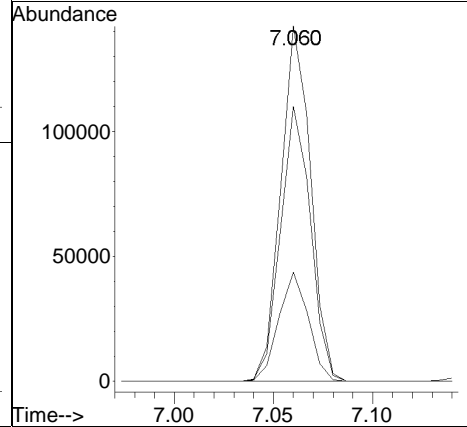
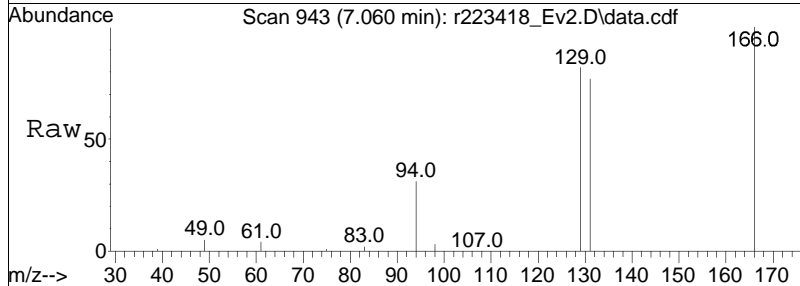
Tgt Ion	Ratio	Lower	Upper
130	100		
132	94.9	76.0	114.0
97	54.3	42.2	63.4





#57
 tetrachloroethene
 Concen: 3.84 ppbV
 RT: 7.060 min Scan# 943
 Delta R.T. 0.000 min
 Lab File: r223418_Ev2.D
 Acq: 28 Mar 2024 2:21 PM

Tgt Ion	Ratio	Lower	Upper
166	100		
131	77.4	59.4	89.2
94	30.8	19.5	29.3#



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
 Data File : r223430_Ev2.D
 Acq On : 28 Mar 2024 10:47 PM
 Operator : AIRLAB22:JMB
 Sample : WG1902106-5,3,250,250
 Misc : WG1902106,ICAL20614
 ALS Vial : 0 Sample Multiplier: 1

Quant Time: Mar 29 14:51:20 2024
 Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
 Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
 QLast Update : Sun Dec 03 08:16:38 2023
 Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D
 Sub List : 7-NY-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	4.463	49	264685	10.000	ppbV	0.02
Standard Area =	268768		Recovery =	98.48%		
33) 1,4-difluorobenzene	5.390	114	878068	10.000	ppbV	0.02
Standard Area =	838879		Recovery =	104.67%		
51) chlorobenzene-D5	7.347	54	117058	10.000	ppbV	# 0.00
Standard Area =	106366		Recovery =	110.05%		

System Monitoring Compounds

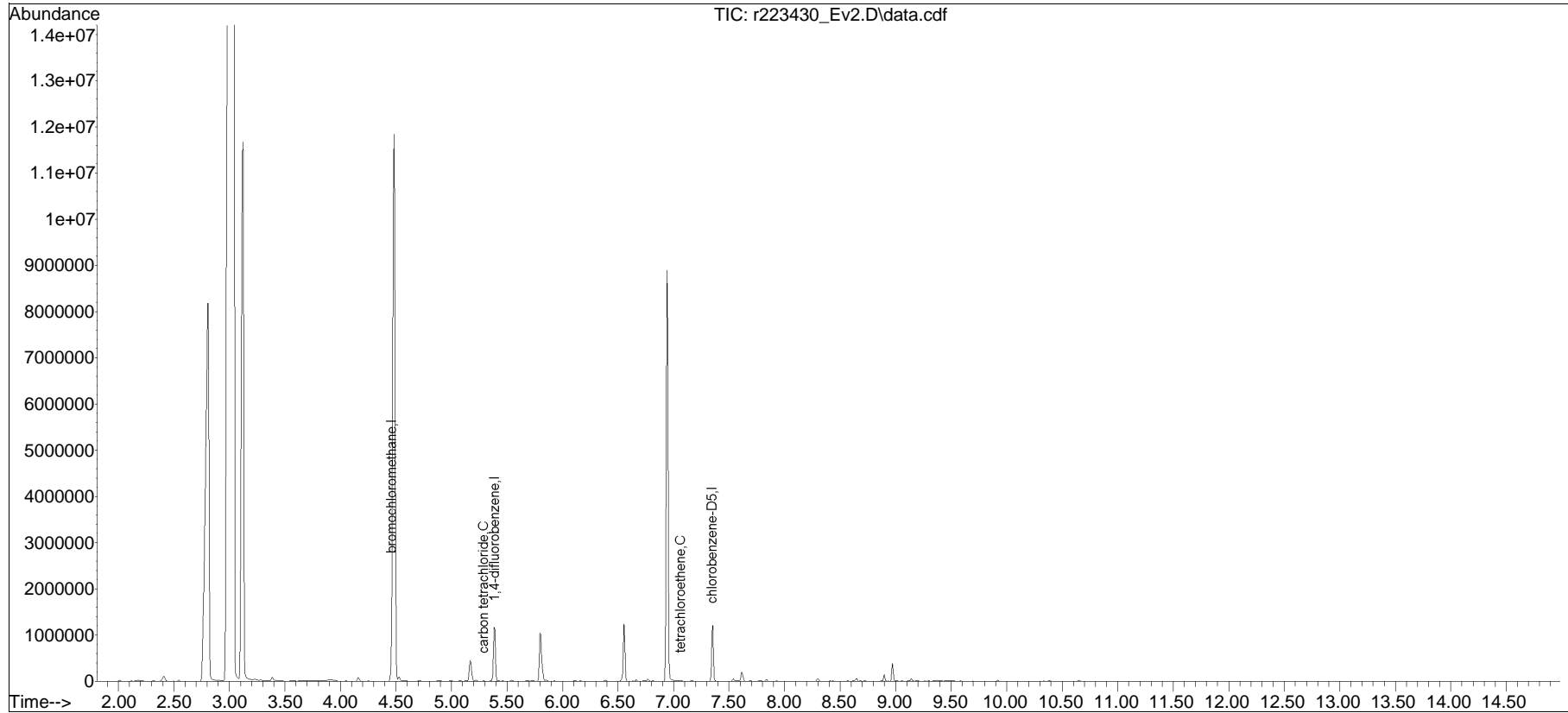
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D. d	
28) cis-1,2-dichloroethene	0.000		0		N.D. d	
36) 1,1,1-trichloroethane	4.997		0		N.D.	
38) carbon tetrachloride	5.290	117	2385M4	0.095	ppbV	
44) trichloroethene	5.717		0		N.D.	
57) tetrachloroethene	7.067	166	4454	0.104	ppbV #	91

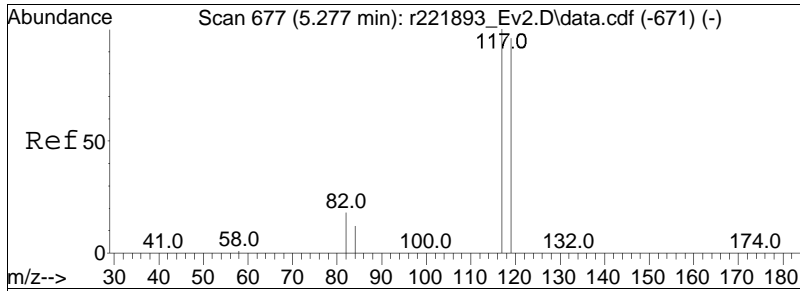
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab22\2024\03\0328SIM\r223418_Ev2.D

Data Path : O:\Forensics\Data\Airlab22\2024\03\0328SIM\
Data File : r223430_Ev2.D
Acq On : 28 Mar 2024 10:47 PM
Operator : AIRLAB22:JMB
Sample : WG1902106-5,3,250,250
Misc : WG1902106,ICAL20614
ALS Vial : 0 Sample Multiplier: 1

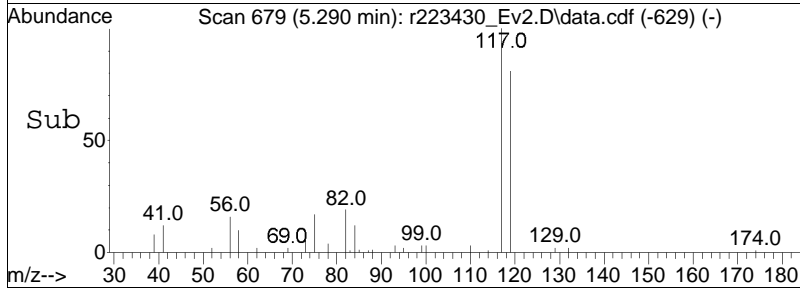
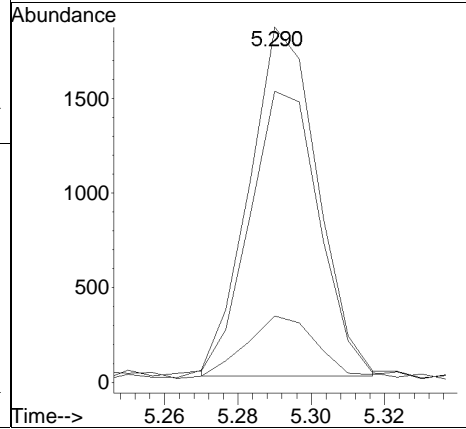
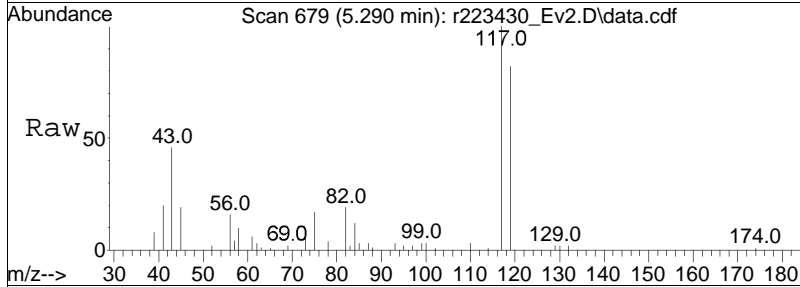
Quant Time: Mar 29 14:51:20 2024
Quant Method : O:\Forensics\Data\Airlab22\2024\03\0328SIM\TSIM22_231129.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 03 08:16:38 2023
Response via : Initial Calibration

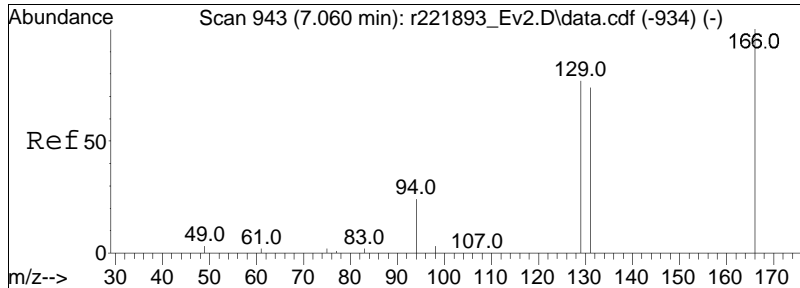




#38
 carbon tetrachloride
 Concen: 0.10 ppbV m
 RT: 5.290 min Scan# 679
 Delta R.T. 0.013 min
 Lab File: r223430_Ev2.D
 Acq: 28 Mar 2024 10:47 PM

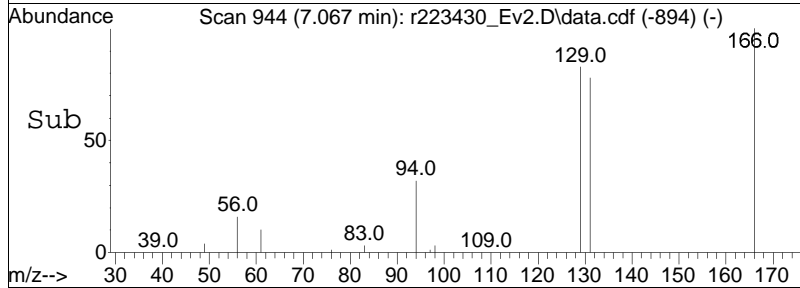
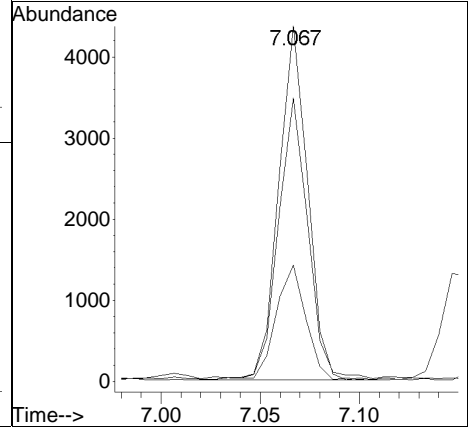
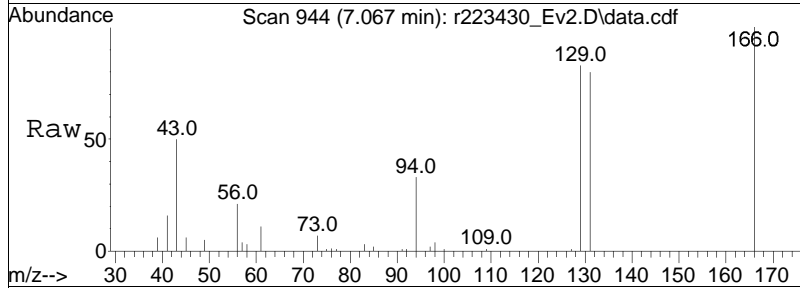
Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2385		
119	81.9	76.9	115.3	
82	18.7	14.2	21.2	





#57
 tetrachloroethene
 Concen: 0.10 ppbV
 RT: 7.067 min Scan# 944
 Delta R.T. 0.007 min
 Lab File: r223430_Ev2.D
 Acq: 28 Mar 2024 10:47 PM

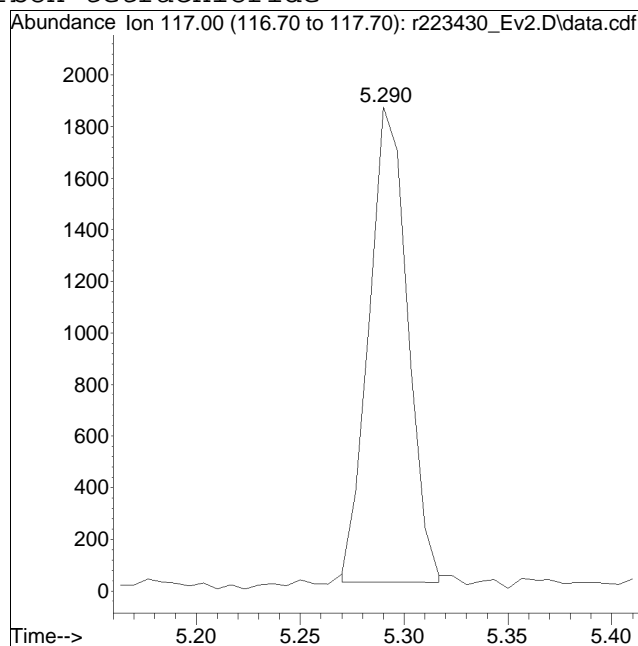
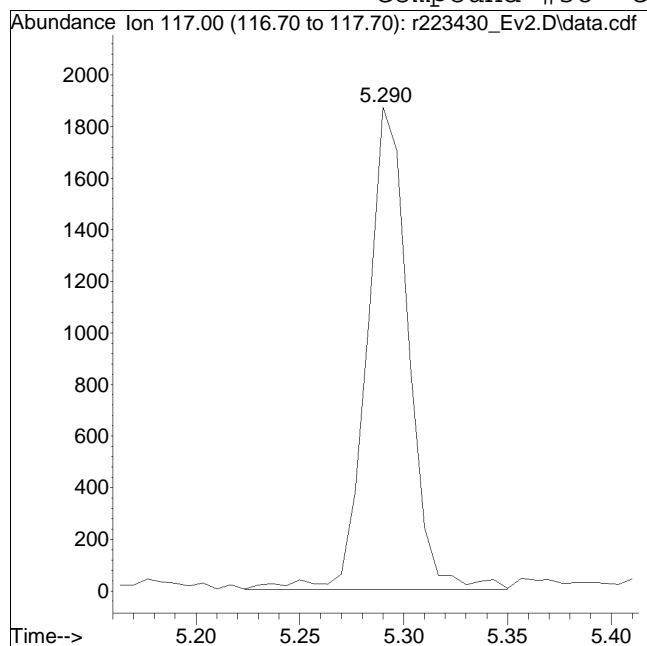
Tgt Ion	Ratio	Lower	Upper
166	100		
131	79.8	59.4	89.2
94	32.7	19.5	29.3#



Manual Integration Report

Data Path : O:\Forensics\Data\Airlab22QMethod : TSIM22_231129.M
Data File : r223430_Ev2.D Operator : AIRLAB22:JMB
Date Inj'd : 3/28/2020 0:0: 7 Instrument :
Sample : WG1902106-5,3,250,250 Quant Date : 3/29/2024 2:51 pm

Compound #38: carbon tetrachloride



Original Peak Response = 2588

Manual Peak Response = 2385 M4

M4 = Poor automated baseline construction.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

$$\text{Result, ppbv} = C_s \times \text{DF}$$

Where:

C_s = Concentration of sample (ppbv)

DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor

$$\text{DF} = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

P =

Conversion of ppbv to $\mu\text{g}/\text{m}^3$

$$\mu\text{g}/\text{m}^3 = (\text{ppbv}) * \text{MW} / 24.47$$

Where:

24.47 = molar gas constant (g/g-mole)

MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$$V_{ci} = 2.7 * PI/14.696$$

Step 2: Calculate the volume in the canister after pressurization.

$$V_{cf} = 2.7 * PF/14.696$$

Step 3: Calculate the dilution factor.

$$DF = V_{cf} / V_{ci}$$

Where:

V_{ci} = volume of air in canister prior to pressurization, L

PI = pressure reading of canister prior to pressurization (psia)

V_{cf} = volume of air in canister after pressurization, L

PF = pressure reading of canister after pressurization (psia)

DF = dilution factor

14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Mar 29 2024, 04:56 pm

Work Group: WG1902106 for Department: 3 GC/MS

Created: 28-MAR-24 Due: Operator: JMB

Sample	Client ID	C Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2413824-01	IA-1	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-02	IA-2	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-03	OA-1	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413824-04	OA-2	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-2.7
L2413828-01	IA-1	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-02	IA-2	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-03	IA-3	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-04	IA-4	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-6
L2413828-05	OA-5	S TO15-SIM	AIR	DONE	U	0412	0328	S0	Can-6
L2414212-01	IA-7	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-02	IA-203	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-03	IA-202	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-04	IA-201	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-05	IAQ-1	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-06	IA-11	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-07	IA-9	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414212-08	AMB-1	S TO15-SIM	AIR	DONE	U	0411	0328	S0	Can-6
L2414305-02	IA-01	S TO15-SIM	AIR	DONE	U	0414	0329	S0	Can-6
L2414305-03	IA-02	S TO15-SIM	AIR	DONE	U	0414	0329	S0	Can-6
L2414305-04	AA-01	S TO15-SIM	AIR	DONE	U	0414	0329	S0	Can-6
WG1902106-1	MS BFB Tune Standard	S TO15-SIM	AIR	DONE	U				
WG1902106-2	Continuing Calibrati	S TO15-SIM	AIR	DONE	U				
WG1902106-3	Laboratory Control S	S TO15-SIM	AIR	DONE	U				
WG1902106-4	Laboratory Method Bl	S TO15-SIM	AIR	DONE	U				
WG1902106-5	Duplicate Sample	S TO15-SIM	AIR	DONE	U				
Comments:									
WG1902106-5	L2414212-05								

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AIRLAB22 Internal Standard/Surrogate IDs: SS22-029 / SS21-026
 Date: 11/29/2023 Internal Standard/Surrogate Volume: 100 ml
 Analyst Initials: JMB Sequence File Name: 220916.S

Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Check Pass
1	TA22112201	TO15_SFS.qgm	R221886.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R221887.qgd	50 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R221888.qgd	125 mL SS23-022D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R221889.qgd	250 mL SS23-022D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R221890.qgd	50 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R221891.qgd	125 mL SS23-022C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R221892.qgd	250 mL SS23-022C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R221893.qgd	125 mL SS23-022B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R221894.qgd	250 mL SS23-022B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R221895.qgd	50 mL SS23-022A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R221896.qgd	125 mL SS23-022A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R221897.qgd	250 mL SS23-022A	LL ONLY	DEF	NA
1	BA22112201	TO15_SFS.qgm	R221898.qgd	250 mL	LL BLANK		NA
1	BA22112202	TO15_SFS.qgm	R221899.qgd	250 mL	SIM BLANK/ TUNE		NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R221900.qgd	250 mL SS223-027H	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R221901.qgd	125 mL SS223-027H	SIM ICV	DEF ICV AP2	NA

Alpha Analytical Air Lab Instrument Run Log

Instrument ID: AIRLAB22 Internal Standard/Surrogate IDs: SS23-026 / SS23-018
 Date: 03/28/2024 Internal Standard/Surrogate Volume: 100 ml
 Analyst Initials: JMB Sequence File Name: 220916.S

AS Position	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL	Comment (s)	Product/ sublist	Leak Check
1	TA22032701	TO15_SFS.qgm	R223415.qgd	250 mL	TUNE		NA
2	CA22032701	TO15_SFS.qgm	R223416.qgd	250 mL	LL CC		NA
3	TO15-LL 10-STD10.0	TO15_SFS.qgm	R223417.qgd	SS24-008G 250 mL	LL LCS	4-MCP + BDCM CHLOROETHANE FAIL HIGH, REPORT HITS BY SIM	NA
3	TO15-SIM 10-STD5.0	TO15_SFS.qgm	R223418.qgd	SS24-008G 125 mL	SIM LCS		NA
1	BA22032701	TO15_SFS.qgm	R223419.qgd	250 mL	LL BLANK		NA
1	BA22032702	TO15_SFS.qgm	R223420.qgd	250 mL	SIM BLANK		NA
2	L2413828-05,3,250,250	TO15_SFS.qgm	R223421.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
3	L2413824-03D,3,245.0,250	TO15_SFS.qgm	R223422.qgd	WG1902103,ICAL20613	11111	NY+NAPH-7SIM	Y
4	L2414305-04,3,250,250	TO15_SFS.qgm	R223423.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
5	L2414212-08,3,250,250	TO15_SFS.qgm	R223424.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
6	L2414212-01,3,250,250	TO15_SFS.qgm	R223425.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
7	L2414212-02,3,250,250	TO15_SFS.qgm	R223426.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
8	L2414212-03,3,250,250	TO15_SFS.qgm	R223427.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
9	L2414212-04,3,250,250	TO15_SFS.qgm	R223428.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
10	L2414212-05,3,250,250	TO15_SFS.qgm	R223429.qgd	WG1902103,ICAL20613	ETOH, ACETONE, IPA AND EA OVERCAL	NY+NAPH-7SIM	Y
10	L2414212-05DUP,3,250,250	TO15_SFS.qgm	R223430.qgd	WG1902103,ICAL20613	LL/SIM DUP	NY+NAPH-7SIM	Y
11	L2414212-06,3,250,250	TO15_SFS.qgm	R223431.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
12	L2414212-07,3,250,250	TO15_SFS.qgm	R223432.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
13	L2413828-01,3,250,250	TO15_SFS.qgm	R223433.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
14	L2413828-02,3,250,250	TO15_SFS.qgm	R223434.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
15	L2413828-03,3,250,250	TO15_SFS.qgm	R223435.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
16	L2413828-04,3,250,250	TO15_SFS.qgm	R223436.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y

Alpha Analytical Air Lab Instrument Run Log

1	L2413824-01,3,250,250	TO15_SFS.qgm	R223437.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
2	L2413824-04,3,250,250	TO15_SFS.qgm	R223438.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
3	L2413824-02,3,250,250	TO15_SFS.qgm	R223439.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
4	L2414305-02,3,250,250	TO15_SFS.qgm	R223440.qgd	WG1902103,ICAL20613		NY+NAPH-7SIM	Y
5	L2414305-03,3,250,250	TO15_SFS.qgm	R223441.qgd	WG1902103,ICAL20613	ETOH OVERCAL	NY+NAPH-7SIM	Y
10	L2414212-05D,3,1.91,250	TO15_SFS.qgm	R223442.qgd	WG1902103,ICAL20613		ETOH, ACETONE, IPA AND EA	
10	L2414212-05DUP,3,1.91,250	TO15_SFS.qgm	R223443.qgd	WG1902103,ICAL20613		ETOH, ACETONE, IPA AND EA	
1	L2413824-01D,3,5.92,250	TO15_SFS.qgm	R223444.qgd	WG1902103,ICAL20613		ETOH	
3	L2413824-02D,3,6.17,250	TO15_SFS.qgm	R223445.qgd	WG1902103,ICAL20613		ETOH	
5	L2414305-03D,3,25,250	TO15_SFS.qgm	R223446.qgd	WG1902103,ICAL20613		ETOH	

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (ml) } nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ATTACHMENT 3

Data Usability Summary Report: March 2024 Sampling Event

Stantec Analytical Validation DUSR

Report No. 043024-EC-01

Project Name: Belle Harbor, NY	Project Number: 195601412		
Stantec Validator: Elizabeth Crowley	Laboratory: Alpha Analytical – Westborough, MA		
Date Validation Completed: 04/30/24	Laboratory Project Number: L2414212		
Sample End Date: 03/12-03/13/24	Laboratory Report Date: 03/31/24		
Parameters Validated: Volatile Organic Compounds (VOC) by EPA TO-15 and TO-15 SIM			
Associated Chain(s) of Custody – no numbers. Samples Validated – 12 indoor air and soil vapor field samples			
VALIDATION CRITERIA CHECK			
Validation Flags Applicable to this Review:			
U	The analyte was analyzed for, but not detected above the reported sample quantitation limit.		
J	The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.		
UJ	The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.		
NJ	The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.		
N	The analysis indicates the tentative presence of a non-target/method specified analyte.		
R	The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.		
B	The analyte was detected in the method, field and/or trip blank.		
1.	Were all the analyses requested for the samples submitted with each COC completed by the lab?	Yes X	No
Comments:			
2.	Did the laboratory identify any non-conformances related to the analytical result?	Yes X	No
Comments: Case narrative reports matrix issues, dilutions, and minor analytical problems. Only issues requiring qualifying action are presented in this report.			
3.	Were sample Chain-of-Custody forms complete?	Yes X	No
Comments:			
4.	Were samples received in good condition and at the appropriate temperature?	Yes X	No
Comments:			
5.	Were sample holding times met?	Yes X	No
Comments:			
6.	Were correct concentration units reported?	Yes X	No
Comments:			
7.	Were detections found in laboratory blank samples?	Yes	No X

Comments:			
8. Were detections found in field blank, equipment, rinse blank, and/or trip blank samples?	NA	Yes	No
Comments: No blank sample submitted.			
9. Were instrument calibrations within method criteria?		Yes	No X
Comments: Instrument AirLab22, batch WG2902103 – Continuing calibration verification %D exceeds the 30% limit for Dichlorodifluoromethane (42%). All associated sample results flagged “J” if positive or “UJ” if non-detect. Reason Code – CCAL			
10. Were surrogate recoveries within control limits?		Yes X	No
Comments:			
11. Were laboratory control sample recoveries within control limits?		Yes X	No
Comments:			
12. Were matrix spike recoveries within control limits?	NA	Yes	No
Comments: No matrix sample data reported for air samples.			
13. Were RPDs within control limits?		Yes	No X
Comments: Batch 2902103 – Laboratory duplicate RPD exceeds the 25% limit for Ethanol (35%). Associated sample results flagged “J” if positive. Reason Code – LDUP			
14. Were dilutions required on any samples?		Yes X	No
Comment: Dilution required due to target analyte concentration. Samples analyzed at multiple dilutions to obtain the lowest possible reporting limits. Samples results which exceed the upper limit of the instrument calibration are flagged “J”. Reason Code EC			
15. Were Tentatively Identified Compounds (TIC) present?		Yes	No X
Comments:			
16. Were organic system performance criteria met?		Yes X	No
Comments:			
17. Were GC/MS internal standards within method criteria?		Yes X	No
Comments:			
18. Were inorganic system performance criteria met?	NA	Yes	No
Comments: No inorganic analyses requested.			
19. Were blind field duplicates collected? If so, discuss the		Yes	No

precision (RPD) of the results.		X	
Duplicate Sample No.	Primary Sample No.		
Comments:			
20. Were at least 10 percent of the hard copy results compared to the Electronic Data Deliverable Results?	Yes X	No	Initials EAC
Comments:			
21. Other: A). Chromatogram/ion absorbance ratio issues B). Validation Level		Yes X	No
Comments: A). The chromatogram is questionable and/or ion ratio are out of limits for Carbon Tetrachloride for sample SVP-9. Associated sample results flagged "J". Reason Code – ID C).Validation level – All samples validated Tier 2B for all samples and Tier 3 for minimum ten percent of the client submitted samples. IA-202 and SVP-9 validated Tier 3.			
PRECISION, ACCURACY, METHOD COMPLIANCE AND COMPLETENESS ASSESSMENT			
Precision:	Acceptable X	Unacceptable	Initials EAC
Comments: Data usable as flagged.			
Accuracy:	Acceptable X	Unacceptable	Initials EAC
Comments: Data usable as flagged.			
Method Compliance:	Acceptable X	Unacceptable	Initials EAC
Comments: Data usable as flagged.			
Completeness:	Acceptable X	Unacceptable	Initials EAC
Comments: Greater than 90%.			