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INDOOR AIR MONITORING REPORT – MARCH 2025
340 MYRTLE AVENUE REDEVELOPMENT
340 MYRTLE AVENUE
BROOKLYN, NEW YORK
NYSDEC BCP SITE NO. C224340

by
H & A of New York Engineering and Geology, LLP
New York, New York

for
New York State Department of Environmental Conservation
Albany, New York

File No. 0210873
April 2026

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April 22, 2026
File No. 0210873

New York State Department of Environmental Conservation
Division of Environmental Remediation
625 Broadway
Albany, New York 12233

Attention: Mr. Christopher Allan

Subject: Indoor Air Monitoring Evaluation – March 2025
340 Myrtle Avenue
Brooklyn, New York
NYSDEC BCP Site No. C224340

Dear Mr. Allan:

On behalf of 340 Myrtle Development LLC, H & A of New York Engineering and Geology, LLP (Haley & Aldrich of New York) is pleased to submit this letter detailing the March 2025 Indoor Air Monitoring activities at the above-referenced site ("Site"). A project locus is provided as Figure 1.

Indoor Air Monitoring Evaluation

In accordance with the Site Management Plan (SMP) dated February 25, 2025, and as documented in the approved Remedial Action Work Plan dated April 30, 2024, and Decision Document dated May 7, 2024, the Track 2 remedy requires post-remedial indoor air sampling in accordance with New York State Department of Environmental Conservation's (NYSDEC's) Division of Environmental Remediation (DER)-10 ("Technical Guidance for Site Investigation and Remediation") and the New York State Department of Health (NYSDOH) Guidance for Evaluating Soil Vapor Intrusion in the State of New York (October 2006; last updated February 2024). In accordance with the February 2025 SMP, indoor air sampling is required following remedial excavation activities prior to activation of the sub-slab depressurization system (SSDS), three months after SSDS startup and before occupancy, and then annually during the heating season thereafter to measure the effectiveness of the SSDS and to determine if the system needs to remain active or can be made passive. Additionally, pressure field extension testing is required to be conducted during each indoor air sampling event.

In March 2025, Haley & Aldrich of New York completed the first indoor air sampling event, and samples were collected prior to SSDS activation and prior to building occupancy. Building occupancy is anticipated in Q4 2025 or Q1 2026. Sample location maps are provided as Figures 2 and 3. Analytical results are provided in Attachment 1 and are summarized in Table I.

Building Survey and Chemical Inventory

Prior to collecting the indoor air samples, Haley & Aldrich of New York conducted a building survey to identify materials present in the building that may contain volatile organic compounds (VOCs) and potentially influence indoor air quality. Materials observed during the survey included three 4.5-gallon buckets of Sheetrock® Brand All Purpose Joint Compound, two 4.5-gallon buckets of Sheetrock® Brand Plus 3 Joint Compound, one 4.5-gallon bucket of Sheetrock® Brand Cover Coat, several boxes containing 11-ounce cartridges of Hercules® Plumbers Caulk, and one 5-gallon bucket of Dryvit Brand Backstop® NTX. These materials were documented to contain undisclosed VOCs between 0.1 and 36 grams per liter (g/L) per product labeling and publicly available safety data. The product with the highest VOC content, as indicated by the Safety Data Sheet (SDS), was for Hercules® Plumbers Caulk, and petroleum distillate is noted as a component on the SDS. These materials are common construction-related sources of VOCs and are known to off-gas under indoor conditions, particularly when stored in enclosed areas.

The presence of these materials at the Site has likely contributed to the presence of VOCs detected in indoor air, which are commonly found in adhesives, cleaners, and building materials. A chemical inventory for potential VOC-containing materials observed stored at the Site during this sampling event is provided as Table II, Safety Data Sheets (SDS) are included as Attachment 2, and an NYSDOH Air Quality Questionnaire is included as Attachment 3. A photo log will be provided in future reports.

Indoor Air Samples

On March 13 and 14, 2025, Haley & Aldrich of New York personnel mobilized to the Site to conduct the first indoor air sampling event, prior to SSDS activation and prior to building occupancy. In accordance with the NYSDEC-approved SMP, five 24-hour duration indoor air samples were collected: three within the cellar level (IA-01 through IA-03) and two on the first level (IA-04 and IA-05). Additionally, one 24-hour duration outdoor ambient air sample (AA-01) was collected. Samples were collected into 6-liter Summa® canisters, and the flow rate for sampling did not exceed 0.2 liters per minute (L/min). Indoor air samples and the outdoor ambient air sample were collected at breathing height, approximately 3 to 5 feet (ft) above the floor.

Samples were collected in laboratory-supplied individually certified-clean 6-liter Summa® canisters with 24-hour flow controllers and transported under standard chain of custody to Pace Analytical Services, LLC (Pace), of Westborough, Massachusetts, an NYSDOH Environmental Laboratory Approval Program (ELAP)-certified laboratory (ELAP No. 11148). Samples were analyzed for VOCs via United States Environmental Protection Agency Method TO-15.

A sample was not collected from the SSDS sample port as the sample port had not been installed prior to the March 2025 indoor air sampling event. Following installation, a sample will be collected from the SSDS sample port during future sampling events in accordance with the SMP.

Pressure Field Extension Testing

Pressure field extension testing was conducted during the indoor air sampling event by collecting negative pressure (vacuum) readings via a digital manometer from the SSDS sub-slab monitoring points. Readings were not collected from the SSDS riser as the sample port had not been installed prior to the sampling event. Following installation, vacuum readings will be collected from the SSDS riser during future sampling events in accordance with the SMP. Vacuum readings collected during this event ranged from 0.0016 to 0.0081 inches of water column (wc) and are presented in Table III.

Analytical Results

Analytical results are provided in Table I. A data usability summary report (DUSR) is provided as Attachment 4.

A summary of the analytical results is presented below:

- Carbon tetrachloride was detected in each of the five indoor air samples at concentrations ranging from 0.484 micrograms per cubic meter (µg/m³) in IA-01_20250314 to 0.528 µg/m^3 in IA-05_20250314. This compound was detected in the ambient air sample, AA-01_20250314, at a concentration of 0.478 µg/m^3.
  - Detections of carbon tetrachloride in indoor air were consistent with the ambient air sample, and it was not detected in any of the endpoint samples post-remedy; it is not a soil vapor intrusion (SVI) concern for this Site.
- Cis-1,2-dichloroethene (cis-1,2-DCE) was detected in one of the five indoor air samples at a concentration of 0.305 µg/m^3 in IA-03_20250314. This compound was not detected in the ambient air sample.
  - cis-1,2-DCE was not detected in any of the endpoint samples post-remedy, and it was not detected above the Ambient Water Quality Standards (AWQS) in groundwater samples collected in March 2025.
  - Because there is no on-site source of cis-1,2-DCE in soil or in Site groundwater, it is not an SVI concern for this Site.
- Trichloroethene (TCE) was detected in four of the five indoor air samples at concentrations ranging from 0.118 µg/m^3 in IA-05_20250314 to 1.4 µg/m^3 in IA-03_20250314. This compound was not detected in the ambient air sample.
  - TCE was not detected above the Unrestricted Use Soil Cleanup Objective (UUSCO) in any of the endpoint samples post-remedy, and it was not detected above its AWQS in groundwater samples collected in March 2025.
  - Because there is no on-site source of TCE in soil or in Site groundwater, it is not an SVI concern for this Site.
- Tetrachloroethene (PCE) was detected in each of the five indoor air samples at concentrations ranging from 0.374 µg/m^3 in IA-04_20250314 to 8.82 µg/m^3 in IA-03_20250314. PCE was also detected in the ambient air sample, AA-01_20250314, at a concentration of 0.244 µg/m^3.

  - PCE was not detected above the UUSCO in any of the endpoint samples post-remedy; however, PCE was detected above its AWQS in Site groundwater during the March 2025 groundwater sampling event.
  - PCE will continue to be monitored during future sampling events, both in indoor air, ambient air and in groundwater, to identify any potential on-site sources. In addition, the SSDS will be activated to mitigate any potential sources from SVI.

- Vinyl chloride was detected in one of the five indoor air samples, IA-03_20250314, at a concentration of 0.054 µg/m^3. This compound was not detected in the ambient air sample.
  - Vinyl chloride was not detected above the UUSCO in any of the endpoint samples post-remedy, and it was not detected above its AWQS in groundwater samples collected in March 2025.
  - Because there is no on-site source of vinyl chloride in soil or in Site groundwater, it is not an SVI concern for this Site.

- Benzene was detected in each of the five indoor air samples at concentrations ranging from 1.45 µg/m^3 in IA-02_20250413 to 2.5 µg/m^3 in IA-05_20250314. This compound was also detected in the ambient air sample, AA-01_20250314, at a concentration of 0.658 µg/m^3.
  - Benzene was not detected above the UUSCO in any of the endpoint samples post-remedy, and it was not detected above AWQS during the Phase II Environmental Site Investigation (ESI) or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of benzene in soil or in Site groundwater, it is not an SVI concern for this Site.

- Ethylbenzene was detected in each of the five indoor air samples at concentrations ranging from 2.1 µg/m^3 in IA-04_20250314 to 4.52 µg/m^3 in IA-01_20250314. This compound was not detected in the ambient air sample.
  - Ethylbenzene was not detected above the UUSCO in any of the endpoint samples post-remedy, and it was not detected above AWQS during the Phase II ESI or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of ethylbenzene in soil or in Site groundwater, it is not an SVI concern for this Site.

- Cyclohexane was detected in each of the five indoor air samples at concentrations ranging from 1.31 µg/m^3 in IA-02_20250314 to 9.29 µg/m^3 in IA-04_20250314. This compound was not detected in the ambient air sample.
  - Cyclohexane was not detected in soil vapor samples collected during the Phase II ESI and Remedial Investigation, completed in 2021 and 2023, respectively. Cyclohexane can be found in several industrial products, such as adhesives, paint thinners, and gasoline.
  - Because there was no historical on-site source of cyclohexane, and soil has been removed as part of the remedy, cyclohexane is not an SVI concern for this Site.

- 1,2,4-trimethylbenzene was detected in three of the five indoor air samples at concentrations ranging from 2.37 µg/m^3 in IA-05_20250314 to 4.7 µg/m^3 in IA-01_20250314. This compound was not detected in the ambient air sample.

  - 1,2,4-trimethylbenzene was not detected above in any of the endpoint samples post-remedy, and it was not detected above AWQS during the Phase II ESI or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of 1,2,4-trimethylbenzene in soil or in Site groundwater, it is not an SVI concern for this Site.

- 1,3,5-trimethylbenzene was detected in one of the five indoor air samples, IA-01_20250314, at a concentration of 1.11 µg/m^3. This compound was not detected in the ambient air sample.
  - 1,3,5-trimethylbenzene was not detected above in any of the endpoint samples post-remedy, and it was not detected above AWQS during the Phase II ESI or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of 1,3,5-trimethylbenzene in soil or in Site groundwater, it is not an SVI concern for this Site.

- O-xylene was detected in each of the five indoor air samples at concentrations ranging from 2.02 µg/m^3 in IA-02_20250314 to 5.04 µg/m^3 in IA-01_20250314. This compound was not detected in the ambient air sample.
  - O-xylene was not detected above in any of the endpoint samples post-remedy, and it was not detected above AWQS during the Phase II ESI or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of o-xylene in soil or in Site groundwater, it is not an SVI concern for this Site.

- M,p-xylenes were detected in each of the five indoor air samples collected at concentrations ranging from 7.64 µg/m^3 in IA-04_20250314 to 17.6 µg/m^3 in IA-01_20250314. This compound was not detected in the ambient air sample.
  - M,p-xylenes were detected at low, estimated levels in one endpoint sample and one sidewall sample post-remedy (i.e., between the laboratory detection and method detection limits), and were not detected above AWQS during the Phase II ESI or Remedial Investigation completed in 2021 and 2023, respectively.
  - Because there is no on-site source of m,p-xylenes in soil or in Site groundwater, they are not an SVI concern for this Site.

- N-heptane (heptane) was detected in one of the five indoor air samples collected, IA-05_20250314, at a concentration of 2.69 µg/m^3. This compound was not detected in the ambient air sample.
  - N-heptane was detected in one soil vapor sample during the Remedial Investigation completed in 2023. This sampling location was completed off Site, west of the western Site boundary. No other detections of n-heptane were present on the Site. N-heptane can be found in rubber products, paints, adhesives, and coatings.
  - Because there was no historical on-site source of n-heptane, it is not an SVI concern for this Site.

- Hexane (n-hexane) was detected in each of the five indoor air samples collected at concentrations ranging from 1.39 µg/m^3 in IA-02_20250314 to 12.5 µg/m^3 in IA-03_20250314. This compound was also detected in the ambient air sample, AA-01_20250314, at a concentration of 0.828 µg/m^3.
  - Hexane was detected in three soil vapor samples and one indoor air sample during the Remedial Investigation completed in 2023. These sampling locations were completed off Site, either in the adjacent sidewalks to the west and north or the off-site property to the east. Hexane can be found in quick-drying adhesives and coatings as well as in cleaning agents.
  - Because there was no historical on-site source of hexane, it is not an SVI for this Site.
- Toluene was detected in each of the five indoor air samples at concentrations ranging from 34.2 µg/m^3 in IA-02_20250314 to 179 µg/m^3 in IA-03_20250314. This compound was also detected in the ambient air sample, AA-01_20250314, at a concentration of 3.23 µg/m^3.
  - Toluene was not detected above in any of the endpoint samples post-remedy, and it was detected in one off-site monitoring well above AWQS during the Remedial Investigation in 2023.
  - Because there was no historical on-site source of toluene, it is not an SVI concern for this Site.

Other VOCs detected in indoor air were 2-butanone (methyl ethyl ketone), 4-methyl-2-pentanone (methyl isobutyl ketone), acetone, bromodichloromethane, chloroform (trichloromethane) chloromethane (methylene chloride), dichlorofluoromethane (CFC-12), ethanol, isopropyl alcohol (2-proponol), styrene, tert butyl alcohol, tetrahydrofuran, and trichlorofluoromethane (CFC-11).

Conclusion

The discussion of the 28 compounds detected in the March 2025 SVI evaluation sampling event has been categorized based on a comparison of several criteria, as discussed below.

1. Thirteen compounds, 2-butanone (methyl ethyl ketone), 4-methyl-2-pentanone (methyl isobutyl ketone), acetone, bromodichloromethane, chloroform (trichloromethane), chloromethane (methylene chloride), CFC-12, ethanol, isopropyl alcohol (2-proponol), styrene, tert butyl alcohol, tetrahydrofuran, and CFC-11, are contaminants that were detected in the March 2025 indoor air samples. These compounds were not detected above UUSCOs in any post-remediation endpoint samples or AWQS in the March 2025 post-remediation groundwater samples. These contaminants are commonly found in urban environments or associated with refrigeration systems, consumer products, adhesives, building materials, and cleaning agents, in both ambient air and indoor air, which reinforces the likelihood that trace detections in indoor air are attributable to ambient or non-Site-related sources. **These compounds are not an SVI concern**.
2. Twelve compounds, carbon tetrachloride, cis-1,2-DCE, TCE, vinyl chloride, benzene, ethylbenzene, cyclohexane, 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, o-xylene, m,p-xylenes, and toluene, are contaminants that were detected in the March 2025 indoor air samples. These compounds were not detected above UUSCOs in any post-remediation endpoint samples or AWQS in the March 2025 post-remediation groundwater samples. Detections of these

compounds were residual concentrations likely stemming from the storage and use of construction materials. These compounds are not an SVI concern.

3. Two compounds, n-heptane and hexane, are contaminants that were detected in the March 2025 indoor air samples. These compounds were detected in off-site soil vapor samples collected during the Remedial Investigation. However, no on-site source was identified during the Remedial Investigation. Additionally, these compounds were not detected above UUSCOs in any post-remediation endpoint samples or AWQS in the March 2025 post-remediation groundwater samples. Detections of these compounds were residual concentrations likely stemming from the storage and use of construction materials. **These compounds are not an SVI concern**.
4. One compound, PCE, is a contaminant that was detected in the March 2025 indoor air samples. This compound was not detected above UUSCOs in any post-remediation endpoint samples. However, PCE was detected above its AWQS in the March 2025 post-remediation groundwater samples. **Since there is an on-site source for PCE, PCE is a potential SVI concern if concentrations persist. PCE in indoor air and groundwater will continue to be monitored during future sampling events. To mitigate any potential sources from SVI, the SSDS will be activated.**

General ongoing construction-related activities related to interior finishings, including painting within the building during sampling, likely have contributed to VOC concentrations as well as to the resuspension of VOC-containing particulates or dust from the floor surface, impacting indoor air results. Given their absence in ambient air and their correlation with known indoor chemical sources, the VOC detections, other than PCE, are consistent with indoor use rather than vapor intrusion and are not a concern for SVI.

Due to detections of PCE in indoor air and the presence of PCE in groundwater, the SSDS will be activated to operate as an Engineering Control and will be monitored and inspected in accordance with the NYSDEC-approved SMP dated February 2025.

Please do not hesitate to call if you have any questions or comments.

Sincerely yours,
H & A OF NEW YORK ENGINEERING AND GEOLOGY, LLP

Zavier Richards
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Enclosures:

- Table I: Summary of Air Quality Data
- Table II: Chemical Inventory List With Potential for VOCs during March 2025 Indoor Air Sampling
- Table III: Pressure Field Extension Testing Readings
- Figure 1: Project Locus
- Figure 2: Indoor Air Sample Locations – Cellar
- Figure 3: Indoor Air Sample Locations – First Floor
- Attachment 1: Laboratory Analytical Report
- Attachment 2: Safety Data Sheets
- Attachment 3: NYSDOH Air Quality Questionnaire
- Attachment 4: Data Usability Summary Report

TABLES

TABLE I
SUMMARY OF AIR QUALITY DATA
340 MYRTLE AVENUE
BROOKLYN, NEW YORK
FILE NO. 0210873

Location Name / Sample Name / Sample Date / Lab Sample ID / Sample Classification	New York DOH Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion			New York DOH Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion			IA-01 IA-01_20250314 03/14/2025 L2514968-02 Indoor Air	IA-02 IA-02_20250314 03/14/2025 L2514968-03 Indoor Air	IA-03 IA-03_20250314 03/14/2025 L2514968-04 Indoor Air	IA-04 IA-04_20250314 03/14/2025 L2514968-05 Indoor Air	IA-05 IA-05_20250314 03/14/2025 L2514968-06 Indoor Air	AA-01 AA-01_20250314 03/14/2025 L2514968-01 Ambient Air
	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3						
Matrix A												
1,1-Dichloroethene (SIM)	< 0.2	0.2 - 1	> 1	< 6	6 - 60	> 60	ND (0.079)	ND (0.079)	ND (0.079)	ND (0.162)	ND (0.079)	ND (0.079)
Carbon tetrachloride (SIM)	< 0.2	0.2 - 1	> 1	< 6	6 - 60	> 60	0.484	0.491	0.484	0.501	0.528	0.478
cis-1,2-Dichloroethene (SIM)	< 0.2	0.2 - 1	> 1	< 6	6 - 60	> 60	ND (0.079)	ND (0.079)	0.305	ND (0.162)	ND (0.079)	ND (0.079)
Trichloroethene (SIM)	< 0.2	0.2 - 1	> 1	< 6	6 - 60	> 60	0.704	0.21	1.4	ND (0.219)	0.118	ND (0.107)
Matrix B												
1,1,1-Trichloroethane (SIM)	< 3	3 - 10	> 10	< 100	100 - 1000	> 1000	ND (0.109)	ND (0.109)	ND (0.109)	ND (0.223)	ND (0.109)	ND (0.109)
Tetrachloroethene (SIM)	< 3	3 - 10	> 10	< 100	100 - 1000	> 1000	1.75	1.19	8.82	0.374	0.841	0.244
Methylene chloride (Dichloromethane)	< 3	3 - 10	> 10	< 100	100 - 1000	> 1000	ND (1.74)	ND (1.74)	ND (1.74)	ND (3.54)	ND (1.74)	ND (1.74)
Matrix C												
Vinyl chloride (SIM)	< 0.2	NA	> 0.2	< 6	6 - 60	> 60	ND (0.051)	ND (0.051)	0.054	ND (0.104)	ND (0.051)	ND (0.051)
Matrix D												
Benzene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	2.22	1.45	1.73	1.88	2.5	0.658
Ethylbenzene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	4.52	2.31	2.28	2.1	3.28	ND (0.869)
Naphthalene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	ND (0.996)	ND (0.996)	ND (0.996)	ND (2.03)	ND (0.996)	ND (0.996)
Cyclohexane	< 2	2 - 10	> 10	< 60	60 - 600	> 600	2.93	1.31	2.21	9.29	2.87	ND (0.688)
2,2,4-Trimethylpentane	< 2	2 - 10	> 10	< 60	60 - 600	> 600	ND (0.934)	ND (0.934)	ND (0.934)	ND (1.91)	ND (0.934)	ND (0.934)
1,2,4-Trimethylbenzene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	4.7	ND (0.983)	2.99	ND (2.01)	2.37	ND (0.983)
1,3,5-Trimethylbenzene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	1.11	ND (0.983)	ND (0.983)	ND (2.01)	ND (0.983)	ND (0.983)
o-Xylene	< 2	2 - 10	> 10	< 60	60 - 600	> 600	5.04	2.02	2.22	2.18	3.33	ND (0.869)
Matrix E												
m,p-Xylenes	< 6	6 - 20	> 20	< 200	200 - 2000	> 2000	17.6	7.99	7.82	7.64	12.3	ND (1.74)
N-Heptane	< 6	6 - 20	> 20	< 200	200 - 2000	> 2000	ND (0.82)	ND (0.82)	ND (0.82)	ND (1.67)	2.69	ND (0.82)
Hexane	< 6	6 - 20	> 20	< 200	200 - 2000	> 2000	1.44	1.39	12.5	2.74	1.79	0.828
Matrix F												
Toluene	< 10	10 - 50	> 50	< 300	300 - 3000	> 3000	59.2	34.2	179	47.9	36.6	3.23
Volatile Organic Compounds (ug/m3)												
1,1,2,2-Tetrachloroethane	NA	NA	NA	NA	NA	NA	ND (1.37)	ND (1.37)	ND (1.37)	ND (2.8)	ND (1.37)	ND (1.37)
1,1,2-Trichloroethane	NA	NA	NA	NA	NA	NA	ND (1.09)	ND (1.09)	ND (1.09)	ND (2.23)	ND (1.09)	ND (1.09)
1,1-Dichloroethane	NA	NA	NA	NA	NA	NA	ND (0.809)	ND (0.809)	ND (0.809)	ND (1.65)	ND (0.809)	ND (0.809)
1,2,4-Trichlorobenzene	NA	NA	NA	NA	NA	NA	ND (1.48)	ND (1.48)	ND (1.48)	ND (3.03)	ND (1.48)	ND (1.48)
1,2-Dibromoethane (Ethylene Dibromide)	NA	NA	NA	NA	NA	NA	ND (1.54)	ND (1.54)	ND (1.54)	ND (3.14)	ND (1.54)	ND (1.54)
1,2-Dichlorobenzene	NA	NA	NA	NA	NA	NA	ND (1.2)	ND (1.2)	ND (1.2)	ND (2.45)	ND (1.2)	ND (1.2)
1,2-Dichloroethane	NA	NA	NA	NA	NA	NA	ND (0.809)	ND (0.809)	ND (0.809)	ND (1.65)	ND (0.809)	ND (0.809)
1,2-Dichloropropane	NA	NA	NA	NA	NA	NA	ND (0.924)	ND (0.924)	ND (0.924)	ND (1.89)	ND (0.924)	ND (0.924)
1,2-Dichlorotetrafluoroethane (CFC 114)	NA	NA	NA	NA	NA	NA	ND (1.4)	ND (1.4)	ND (1.4)	ND (2.85)	ND (1.4)	ND (1.4)
1,3-Butadiene	NA	NA	NA	NA	NA	NA	ND (0.442)	ND (0.442)	ND (0.442)	ND (0.903)	ND (0.442)	ND (0.442)

TABLE I
SUMMARY OF AIR QUALITY DATA
340 MYRTLE AVENUE
BROOKLYN, NEW YORK
FILE NO. 0210873

Location Name	New York DOH Indoor Air Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion			New York DOH Sub-slab Vapor Concentrations Criteria per Guidance for Evaluating Soil Vapor Intrusion			IA-01	IA-02	IA-03	IA-04	IA-05	AA-01
Sample Name							IA-01_20250314	IA-02_20250314	IA-03_20250314	IA-04_20250314	IA-05_20250314	AA-01_20250314
Sample Date							03/14/2025	03/14/2025	03/14/2025	03/14/2025	03/14/2025	03/14/2025
Lab Sample ID							L2514968-02	L2514968-03	L2514968-04	L2514968-05	L2514968-06	L2514968-01
Sample Classification	Range 1	Range 2	Range 3	Range 1	Range 2	Range 3	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Indoor Air	Ambient Air
1,3-Dichlorobenzene	NA	NA	NA	NA	NA	NA	ND (1.2)	ND (1.2)	ND (1.2)	ND (2.45)	ND (1.2)	ND (1.2)
1,4-Dichlorobenzene	NA	NA	NA	NA	NA	NA	ND (1.2)	ND (1.2)	ND (1.2)	ND (2.45)	ND (1.2)	ND (1.2)
1,4-Dioxane	NA	NA	NA	NA	NA	NA	ND (0.721)	ND (0.721)	ND (0.721)	ND (1.47)	ND (0.721)	ND (0.721)
2-Butanone (Methyl Ethyl Ketone)	NA	NA	NA	NA	NA	NA	287	67.8	85.5	93.8	214	2.24
2-Hexanone (Methyl Butyl Ketone)	NA	NA	NA	NA	NA	NA	ND (0.82)	ND (0.82)	ND (0.82)	ND (1.67)	ND (0.82)	ND (0.82)
4-Ethyltoluene (1-Ethyl-4-Methylbenzene)	NA	NA	NA	NA	NA	NA	ND (0.983)	ND (0.983)	ND (0.983)	ND (2.01)	ND (0.983)	ND (0.983)
4-Methyl-2-Pentanone (Methyl Isobutyl Ketone)	NA	NA	NA	NA	NA	NA	2.08	ND (2.05)	2.29	ND (4.18)	ND (2.05)	ND (2.05)
Acetone	NA	NA	NA	NA	NA	NA	157	70.1	145	120	70.6	9.57
Allyl chloride	NA	NA	NA	NA	NA	NA	ND (0.626)	ND (0.626)	ND (0.626)	ND (1.28)	ND (0.626)	ND (0.626)
Benzyl Chloride (alpha-Chlorotoluene)	NA	NA	NA	NA	NA	NA	ND (1.04)	ND (1.04)	ND (1.04)	ND (2.11)	ND (1.04)	ND (1.04)
Bromodichloromethane	NA	NA	NA	NA	NA	NA	ND (1.34)	ND (1.34)	1.69	ND (2.73)	ND (1.34)	ND (1.34)
Bromoform	NA	NA	NA	NA	NA	NA	ND (2.07)	ND (2.07)	ND (2.07)	ND (4.22)	ND (2.07)	ND (2.07)
Bromomethane (Methyl Bromide)	NA	NA	NA	NA	NA	NA	ND (0.777)	ND (0.777)	ND (0.777)	ND (1.58)	ND (0.777)	ND (0.777)
Carbon disulfide	NA	NA	NA	NA	NA	NA	ND (0.623)	ND (0.623)	ND (0.623)	ND (1.27)	ND (0.623)	ND (0.623)
Chlorobenzene	NA	NA	NA	NA	NA	NA	ND (0.921)	ND (0.921)	ND (0.921)	ND (1.88)	ND (0.921)	ND (0.921)
Chloroethane	NA	NA	NA	NA	NA	NA	ND (0.528)	ND (0.528)	ND (0.528)	ND (1.08)	ND (0.528)	ND (0.528)
Chloroform (Trichloromethane)	NA	NA	NA	NA	NA	NA	3.04	2.9	15.7	ND (1.99)	1.5	ND (0.977)
Chloromethane (Methyl Chloride)	NA	NA	NA	NA	NA	NA	1.33	1.3	1.13	1.46	1.29	1.32
cis-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	ND (0.908)	ND (0.908)	ND (0.908)	ND (1.85)	ND (0.908)	ND (0.908)
Dibromochloromethane	NA	NA	NA	NA	NA	NA	ND (1.7)	ND (1.7)	ND (1.7)	ND (3.48)	ND (1.7)	ND (1.7)
Dichlorodifluoromethane (CFC-12)	NA	NA	NA	NA	NA	NA	2.68	2.4	2.61	2.53	2.54	2.55
Ethanol	NA	NA	NA	NA	NA	NA	44.7	26.8	32.4	52.2	44.3	13.1
Ethyl acetate	NA	NA	NA	NA	NA	NA	ND (1.8)	ND (1.8)	ND (1.8)	ND (3.68)	ND (1.8)	ND (1.8)
Hexachlorobutadiene	NA	NA	NA	NA	NA	NA	ND (2.13)	ND (2.13)	ND (2.13)	ND (4.35)	ND (2.13)	ND (2.13)
Isopropyl Alcohol (2-Propanol)	NA	NA	NA	NA	NA	NA	19.4	13.3	51.9	16.4	18.8	3.71
Methyl Tert Butyl Ether (MTBE)	NA	NA	NA	NA	NA	NA	ND (0.721)	ND (0.721)	ND (0.721)	ND (1.47)	ND (0.721)	ND (0.721)
Styrene	NA	NA	NA	NA	NA	NA	1.77	1.64	2.08	ND (1.74)	1.07	ND (0.852)
Tert-Butyl Alcohol (tert-Butanol)	NA	NA	NA	NA	NA	NA	40	16.3	35.5	11.2	20.7	ND (1.52)
Tetrahydrofuran	NA	NA	NA	NA	NA	NA	28.9	5.46	22.1	ND (3.01)	10.9	ND (1.47)
trans-1,2-Dichloroethene	NA	NA	NA	NA	NA	NA	ND (0.793)	ND (0.793)	ND (0.793)	ND (1.62)	ND (0.793)	ND (0.793)
trans-1,3-Dichloropropene	NA	NA	NA	NA	NA	NA	ND (0.908)	ND (0.908)	ND (0.908)	ND (1.85)	ND (0.908)	ND (0.908)
Trichlorofluoromethane (CFC-11)	NA	NA	NA	NA	NA	NA	1.23	1.26	1.23	ND (2.29)	1.27	1.25
Trifluorotrichloroethane (Freon 113)	NA	NA	NA	NA	NA	NA	ND (1.53)	ND (1.53)	ND (1.53)	ND (3.13)	ND (1.53)	ND (1.53)
Vinyl Bromide (Bromoethene)	NA	NA	NA	NA	NA	NA	ND (0.874)	ND (0.874)	ND (0.874)	ND (1.78)	ND (0.874)	ND (0.874)

ABBREVIATIONS AND NOTES:

µg/m3: micrograms per cubic meter

-: Not Analyzed
NA: Not Applicable
ND (2.5): Not detected, number in parentheses is the laboratory reporting limit

- For test methods used, see the laboratory data sheets.
*- **Bold Green** text indicates no further action is recommended.*
- Blue highlighted text indicates additional monitoring recommer
- Orange highlighted text indicates actions to identify the source(s), resampling, and/or mitigation is recommended

TABLE II

CHEMICAL INVENTORY LIST WITH POTENTIAL FOR VOCS DURING MARCH 2025 INDOOR AIR SAMPLING

340 MYRTLE AVENUE

BROOKLYN, NEW YORK

FILE NO. 0210873

Construction Material	Quantity	Location	Notes
Sheetrock Brand All Purpose Joint Compound, Ready-Mixed	(3) 4.5-gallon buckets	Basement	Up to 2 g/L of undisclosed VOCs
Sheetrock Brand Plus 3 Joint Compound, Ready-Mixed	(2) 4.5-gallon buckets	Basement, First Floor	0.1 - 1.6 g/L of undisclosed VOCs
Sheetrock Brand Cover Coat, Ready-Mixed	(1) 4.5-gallon bucket	Basement	Up to 2 g/L of undisclosed VOCs
Hercules Plumbers Caulk	11-ounce cartridges	Basement	Up to 36 g/L or up to 2.8% by weight of undisclosed VOCs
Dryvit Backstop NTX	(1) 5-gallon bucket	Basement	Up to 5 g/L of undisclosed VOCs

Notes:

g/L - grams per Liter

VOCs - volatile organic compounds

TABLE III

PRESSURE FIELD EXTENSION TESTING READINGS

340 MYRTLE AVENUE

BROOKLYN, NEW YORK

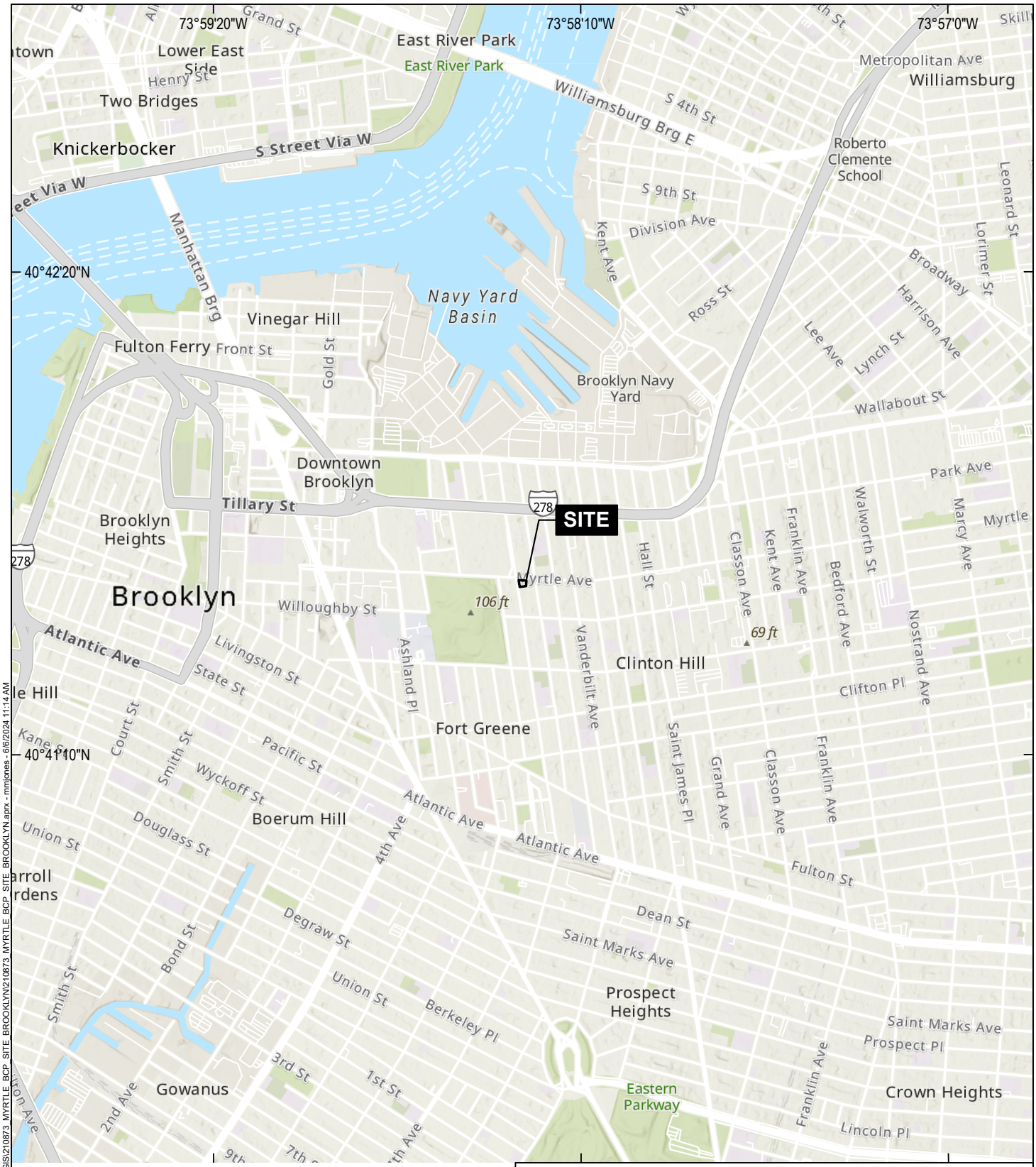
FILE NO. 0210873

Location	Expected Vacuum	Vacuum Reading (wc)	Notes
Riser	+/- 0.002 wc	-	To be installed at a later date
MP-01	+/- 0.002 wc	0.0016	-
MP-02	+/- 0.002 wc	0.0081	-
MP-03	+/- 0.002 wc	0.0034	-
MP-04	+/- 0.002 wc	0.0032	-
Weather conditions:	Mostly Sunny, RH: 50%, Wind: N to S, up to 6 mph, P: 30.14 in Hg		
Air Temperature:	L: 41 H: 57		
Name of Inspector	Z. Richards		
Signature of Inspector			
Date of Inspection	3/14/2025		

Notes:

wc = inches of water column

FIGURES



MAP SOURCE: ESRI
SITE COORDINATES: 40°41'35"N, 73°58'21"W

HALEY ALDRICH

340 MYRTLE AVENUE
BROOKLYN, NEW YORK

PROJECT LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
JUNE 2024

FIGURE 1

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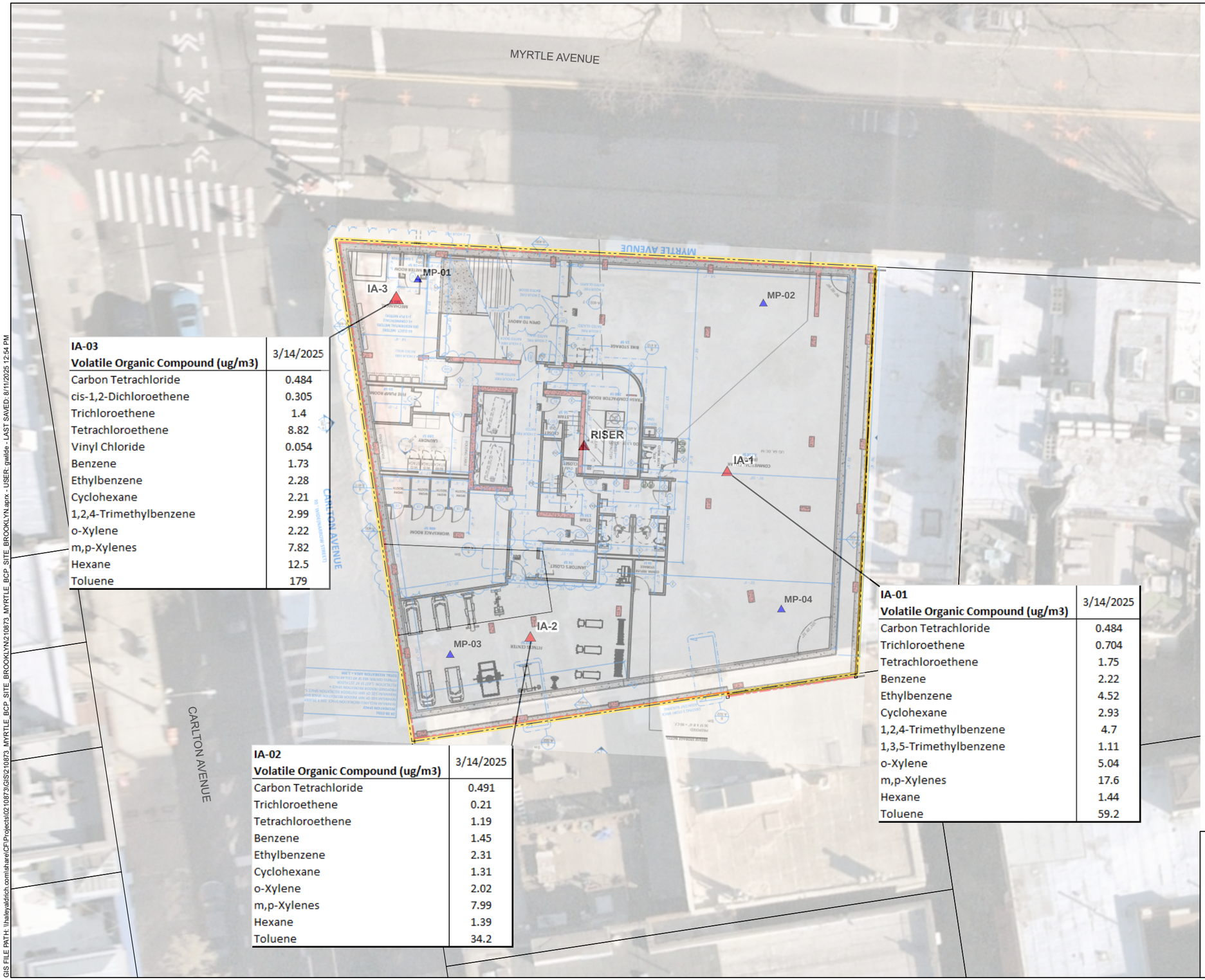

IA-03 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.484
cis-1,2-Dichloroethene	0.305
Trichloroethene	1.4
Tetrachloroethene	8.82
Vinyl Chloride	0.054
Benzene	1.73
Ethylbenzene	2.28
Cyclohexane	2.21
1,2,4-Trimethylbenzene	2.99
o-Xylene	2.22
m,p-Xylenes	7.82
Hexane	12.5
Toluene	179

IA-01 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.484
Trichloroethene	0.704
Tetrachloroethene	1.75
Benzene	2.22
Ethylbenzene	4.52
Cyclohexane	2.93
1,2,4-Trimethylbenzene	4.7
1,3,5-Trimethylbenzene	1.11
o-Xylene	5.04
m,p-Xylenes	17.6
Hexane	1.44
Toluene	59.2

IA-02 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.491
Trichloroethene	0.21
Tetrachloroethene	1.19
Benzene	1.45
Ethylbenzene	2.31
Cyclohexane	1.31
o-Xylene	2.02
m,p-Xylenes	7.99
Hexane	1.39
Toluene	34.2

LEGEND

- AMBIENT AIR SAMPLE LOCATION
- CELLAR INDOOR AIR SAMPLE LOCATION
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) RISER SAMPLE PORT
- SITE BOUNDARY
- PARCEL BOUNDARY
- SUB-SLAB MONITORING POINT

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. INDOOR AIR SAMPLES IA-1, IA-2, AND IA-3 LOCATED ON THE CELLAR LEVEL; IA-4 AND IA-5 LOCATED ON THE FIRST FLOOR.
3. PARCEL DATA SOURCE: KINGS COUNTY
4. AERIAL IMAGERY SOURCE: NEARMAP, MARCH 8, 2024
5. RESULTS ARE SHOWN IN MICROGRAMS PER CUBIC METER (ug/m3)
6. RESULTS DEPICTED ONLY INCLUDE DETECTED COMPOUNDS FROM THE NEW YORK STATE DEPARTMENT OF HEALTH SOIL VAPOR/INDOOR AIR MATRICES.
7. CELLAR PLAN SHOWN IS FROM THE ARCHITECTURAL SET DATED AUGUST 14, 2025 PREPARED BY S. WIEDER ARCHITECT PC.

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SCALE IN FEET

HALEY ALDRICH

340 MYRTLE AVENUE
BROOKLYN, NEW YORK

INDOOR AIR SAMPLE LOCATIONS - CELLAR

MARCH 2026

FIGURE 2

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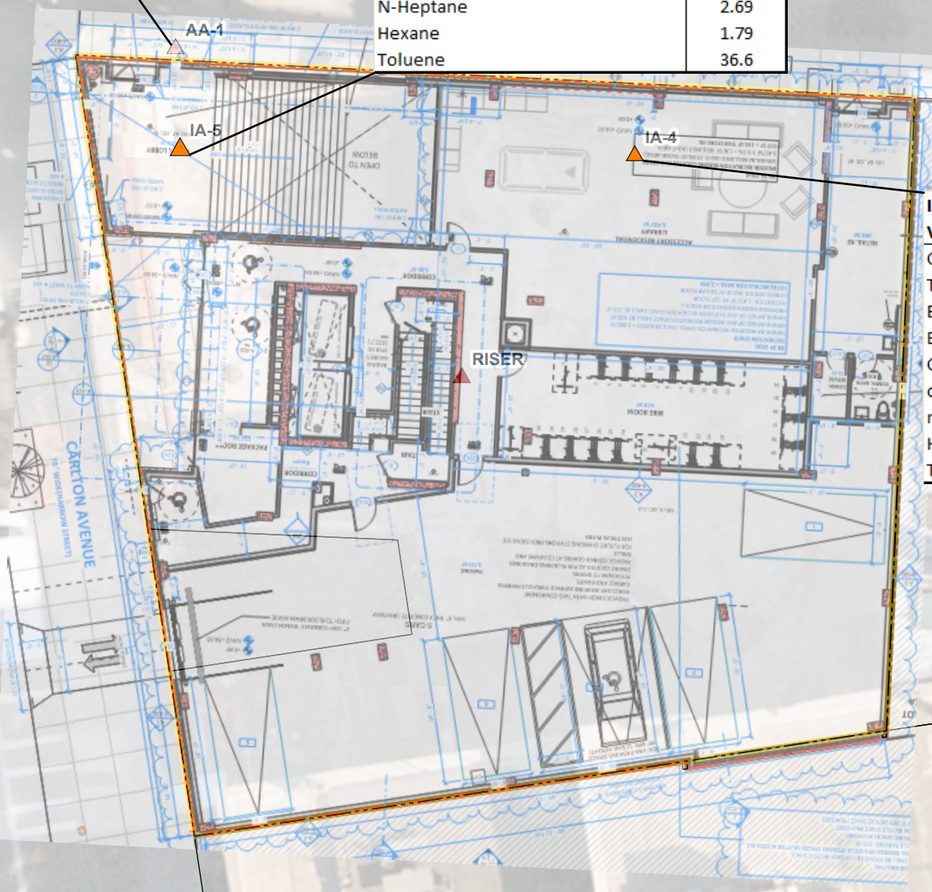
AA-01 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.478
Tetrachloroethene	0.244
Benzene	0.658
Hexane	0.828
Toluene	3.23

IA-05 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.528
Trichloroethene	0.118
Tetrachloroethene	0.841
Benzene	2.5
Ethylbenzene	3.28
Cyclohexane	2.87
1,2,4-Trimethylbenzene	2.37
o-Xylene	3.33
m,p-Xylenes	12.3
N-Heptane	2.69
Hexane	1.79
Toluene	36.6

IA-04 Volatile Organic Compound (ug/m3)	3/14/2025
Carbon Tetrachloride	0.501
Tetrachloroethene	0.374
Benzene	1.88
Ethylbenzene	2.1
Cyclohexane	9.29
o-Xylene	2.18
m,p-Xylenes	7.64
Hexane	2.74
Toluene	47.9



LEGEND

- AMBIENT AIR SAMPLE LOCATION
- FIRST FLOOR INDOOR AIR SAMPLE LOCATION
- SUB-SLAB DEPRESSURIZATION SYSTEM (SSDS) RISER SAMPLE PORT
- SITE BOUNDARY
- PARCEL BOUNDARY

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. INDOOR AIR SAMPLES IA-1, IA-2, AND IA-3 LOCATED ON THE CELLAR LEVEL; IA-4 AND IA-5 LOCATED ON THE FIRST FLOOR.
3. PARCEL DATA SOURCE: KINGS COUNTY
4. AERIAL IMAGERY SOURCE: NEARMAP, MARCH 8, 2024
5. RESULTS ARE SHOWN IN MICROGRAMS PER CUBIC METER (ug/m3)
6. RESULTS DEPICTED ONLY INCLUDE DETECTED COMPOUNDS FROM THE NEW YORK STATE DEPARTMENT OF HEALTH SOIL VAPOR/INDOOR AIR MATRICES.
7. FIRST FLOOR PLAN SHOWN IS FROM THE ARCHITECTURAL SET DATED AUGUST 14, 2025 PREPARED BY S. WIEDER ARCHITECT PC.

N

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SCALE IN FEET

HALEY ALDRICH

340 MYRTLE AVENUE
BROOKLYN, NEW YORK

INDOOR AIR SAMPLE LOCATIONS - FIRST FLOOR

MARCH 2026

FIGURE 3

GIS FILE PATH: \\haleyaldrich.com\share\CF\Projects\021873\GIS\210873_MYRTLE_BCP_SITE_BROOKLYN\210873_MYRTLE_BCP_SITE_BROOKLYN.aprx - USER: gwilde - LAST SAVED: 8/11/2025 12:54 PM

ATTACHMENT 1
Laboratory Analytical Report

Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2514968

The original project report/data package is held by Pace Analytical Services. This report/data package is paginated and should be reproduced only in its entirety. Pace Analytical Services holds no responsibility for results and/or data that are not consistent with the original.

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STD0.05 Injected on: 03/14/25 21:00 620
STD0.1 Injected on: 03/14/25 21:33 656
STD0.2 Injected on: 03/14/25 22:06 676
STD0.5 Injected on: 03/14/25 22:40 690
STD1.0 Injected on: 03/14/25 23:16 704
STD5.0 Injected on: 03/14/25 23:50 720
STD010 Injected on: 03/15/25 00:26 736
STD020 Injected on: 03/15/25 00:58 748
STD050 Injected on: 03/15/25 01:31 761
ICV BFB Tune Injected on: 03/17/25 09:58 774
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Project Name: 340 MYRTLE AVE
Project Number: 0210873-000-001-13

Lab Number: L2514968
Report Date: 03/28/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2514968-01	AA-01_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 12:30	03/14/25
L2514968-02	IA-01_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 08:00	03/14/25
L2514968-03	IA-02_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 11:55	03/14/25
L2514968-04	IA-03_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 12:02	03/14/25
L2514968-05	IA-04_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 12:10	03/14/25
L2514968-06	IA-05_20250314	AIR	340 MYRTLE AVE, BROOKLYN, NY	03/14/25 11:22	03/14/25

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 Pace 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, Pace'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 Pace 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.

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 13, 2025. The canister certification data is provided as an addendum.

L2514968-05D: The canister vacuum measured on receipt at the laboratory was > 15 in. Hg. Prior to sample analysis, the canisters were pressurized with UHP Nitrogen in order to facilitate the transfer of sample to the Gas Chromatograph. The addition of Nitrogen resulted in a dilution of the samples. The reporting limits have been elevated accordingly.

The WG2046188-3 LCS recovery associated with L2514968-01, -02, -03, -04, -05D, and -06 is above the upper 130% acceptance limit for dibromochloromethane (138%), bromoform (140%), 4-ethyltoluene (141%), and benzyl chloride (132%). All samples associated with this LCS do not have reportable amounts of this analyte.

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: Christopher J Anderson Report Date: 03/28/25

Title: Technical Director/Representative

DATA PACKAGE 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.

Report Format: Data Usability Report

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

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 or U - Not detected at the reporting limit (RL) for the sample.

TYPICAL INSTRUMENT PARAMETERS

Volatile Organics Instruments

Volatile Organics:

Instrument: Agilent 7890 GC/5975C MSD	Columns (length x ID x df):
Trap: Supelco K Trap (VOACARB 3000)	RTX-VMS 20m x 0.18mm x 1um
Concentrator: EST Encon (or equivalent)	RTX-VMS 30m x 0.25mm x 1.4um
Autosampler: EST Centurion (or equivalent)	RTX-502.2 40m x 0.18mm x 1um
Purge time: 11 min	

Volatile Organics: VPH

Instrument: Agilent 6890 (or equivalent)	Column Type: Restek RTX 502.2
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 105 Meters
Concentrator: EST Encon (or equivalent)	df: 3.00 um
Autosampler: EST Centurion (or equivalent)	ID: 0.53mm

Volatile Organics: PIANO

Instrument: Agilent 7890 GC/5975C MSD	Column Type: DB-VRX
Trap: Supelco K Trap (VOACARB 3000)	Column Length: 60 Meters
Concentrator: Tekmar Velocity / EST Encon	df: 1.40 um
Autosampler: Varian Archon / EST Centurion	ID: 0.25 mm
Purge time: 11 min	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	Column Type: Restek RTX-1
Autosampler: Entech 7016CA or 7016D	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-CLPPesticide 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

Pace Job Number : L2514968

Account Name : Haley & Aldrich
Project Number : 0210873-000-001-13
Project Name : 340 MYRTLE AVE

Received : 14-MAR-2025
Reviewer : Christopher J Anderson

Delivery Information

Samples Delivered By : Pace 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? L2514968-01: FC ID #03918 vs. FC ID #0398	**YES**
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**

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Mar 28 2025, 05:34 pm

Login Number: L2514968
Account: HALEY-NYC Haley & AldrichProject: 0210873-000-001-13
Received: 14MAR25 Due Date: 21MAR25

Sample #	Client ID	Mat	PR	Collected
L2514968-01	AA-01_20250314	10	S0	14MAR25 12:30
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2514968-02	IA-01_20250314	10	S0	14MAR25 08:00
TO15 SIM for 7 NYS DMCs Package Due Date: 03/21/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2514968-03	IA-02_20250314	10	S0	14MAR25 11:55
TO15 SIM for 7 NYS DMCs Package Due Date: 03/21/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2514968-04	IA-03_20250314	10	S0	14MAR25 12:02
TO15 SIM for 7 NYS DMCs Package Due Date: 03/21/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2514968-05	IA-04_20250314	10	S0	14MAR25 12:10
TO15 SIM for 7 NYS DMCs Package Due Date: 03/21/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2514968-06	IA-05_20250314	10	S0	14MAR25 11:22
TO15 SIM for 7 NYS DMCs Package Due Date: 03/21/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				

Logged By: Tyler Hatch

AIR ANALYSIS

PAGE 1 OF 1

ALPHA ANALYTICAL — CHAIN OF CUSTODY

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

Date Rec'd in Lab: 3/15/25

ALPHA Job #: L2514968

Client Information

Client: Haley & Aldrich
Address: 213 W 35th St, Suite 7
New York, NY 10001
Phone:
Fax:
Email: mlevy@haleyaldrich.com
☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 340 Myrtle Ave
Project Location: 340 Myrtle Ave, Brooklyn, NY
Project #: 0210873-000-001-13
Project Manager: Matt Levy
ALPHA Quote #: 30742

Turn-Around Time

☑ Standard ☐ RUSH (only confirmed if pre-approved!)
Date Due: Time:

Report Information - Data Deliverables

☐ 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)

Billing Information

☑ Same as Client info PO #:

Regulatory Requirements/Report Limits

State/Fed	Program	Res / Comm
NY	NY500H	Matrices

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	ID Can	ID - Flow Controller	TO-15	TO-15 SIM	APH Subset Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
14968-01	AA-01_20250314	03/14/25	12:30	~~17:85~~ 12:30	-29.92	-2.85	AA	ZCR	6L	3490	03919	X					
02	IA-01_20250314		11:59	8:00	-30.80	-5.33	AA			1641	04904	X					
03	IA-02_20250314		12:18	11:55	-30.44	-5.22	AA			656	02978	X					
04	IA-03_20250314		12:02	12:02	-30.28	-9.14	AA			1607	02924	X					Ran full 24 HR
05	IA-04_20250314		12:10	12:10	-30.40	-20.90	AA			2314	02972	X					
06	IA-05_20250314		12:08	11:32	-30.47	-5.09	AA			2065	02679	X					

*SAMPLE MATRIX CODES

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

Container Type

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:	Date/Time	Received By:	Date/Time:
Xavier Richards	3/14/25 15:25	[illegible]	3/14/25 15:20
[illegible]	3/14/25 17:35	Anthony Green	MAR 14 2025 2125
Anthony Green			3/15/25 0250
			3/15/25 0730

Form No: 101-02 Rev: (25-Sep-15)

Supporting Documentation

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 Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2514968-01	AA-01_20250314	0398	Flow 1	03/13/25	509768		-	-	-	Pass	3.0	3.0	0
L2514968-01	AA-01_20250314	3490	6.0L Can	03/13/25	509768	L2513010-01	Pass	-29.3	-6.2	-	-	-	-
L2514968-02	IA-01_20250314	0904	Flow 3	03/13/25	509768		-	-	-	Pass	3.0	3.1	3
L2514968-02	IA-01_20250314	1641	6.0L Can	03/13/25	509768	L2513010-06	Pass	-29.2	-3.5	-	-	-	-
L2514968-03	IA-02_20250314	02978	Flow 4	03/13/25	509768		-	-	-	Pass	3.0	3.6	18
L2514968-03	IA-02_20250314	656	6.0L Can	03/13/25	509768	L2513230-03	Pass	-29.2	-3.5	-	-	-	-
L2514968-04	IA-03_20250314	02924	Flow 5	03/13/25	509768		-	-	-	Pass	3.0	3.0	0
L2514968-04	IA-03_20250314	1607	6.0L Can	03/13/25	509768	L2512819-05	Pass	-29.2	-7.4	-	-	-	-
L2514968-05	IA-04_20250314	02972	Flow 4	03/13/25	509768		-	-	-	Pass	3.0	0.8	116
L2514968-05	IA-04_20250314	2314	6.0L Can	03/13/25	509768	L2513010-05	Pass	-29.2	-19.3	-	-	-	-
L2514968-06	IA-05_20250314	02679	Flow 4	03/13/25	509768		-	-	-	Pass	3.0	3.4	13
L2514968-06	IA-05_20250314	2065	6.0L Can	03/13/25	509768	L2513230-04	Pass	-29.2	-3.1	-	-	-	-

Air Canister Certification Results

Lab ID: L2512819-05
Client ID: CAN 1607 SHELF 66
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/07/25 21:34
Analyst: KJD

Date Collected: 03/06/25 18:00
Date Received: 03/07/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2512819-05
Client ID: CAN 1607 SHELF 66
Sample Location:

Date Collected: 03/06/25 18:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2512819-05 Date Collected: 03/06/25 18:00
Client ID: CAN 1607 SHELF 66 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2512819-05 Date Collected: 03/06/25 18:00
Client ID: CAN 1607 SHELF 66 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.996	--		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					

Air Canister Certification Results

Lab ID: L2512819-05 Date Collected: 03/06/25 18:00
Client ID: CAN 1607 SHELF 66 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

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

Internal Standard	**% Recovery**	**Qualifier**	**Acceptance Criteria**
1,4-Difluorobenzene	84		60-140
Bromochloromethane	99		60-140
chlorobenzene-d5	89		60-140

Air Canister Certification Results

Lab ID: L2512819-05
Client ID: CAN 1607 SHELF 66
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/07/25 21:34
Analyst: KJD

Date Collected: 03/06/25 18:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2512819-05 Date Collected: 03/06/25 18:00
Client ID: CAN 1607 SHELF 66 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2512819-05 Date Collected: 03/06/25 18:00
Client ID: CAN 1607 SHELF 66 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	93		60-140
bromochloromethane	105		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2513010-01
Client ID: CAN 3490 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/08/25 00:11
Analyst: KJD

Date Collected: 03/07/25 12:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2513010-01 Date Collected: 03/07/25 12:00
Client ID: CAN 3490 SHELF 41 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L2513010-01 Date Collected: 03/07/25 12:00
Client ID: CAN 3490 SHELF 41 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L2513010-01
Client ID: CAN 3490 SHELF 41
Sample Location:

Date Collected: 03/07/25 12:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.996	--		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					

Air Canister Certification Results

Lab ID: L2513010-01 Date Collected: 03/07/25 12:00
Client ID: CAN 3490 SHELF 41 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	86		60-140

Air Canister Certification Results

Lab ID: L2513010-01
Client ID: CAN 3490 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/08/25 00:11
Analyst: KJD

Date Collected: 03/07/25 12:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513010-01 Date Collected: 03/07/25 12:00
Client ID: CAN 3490 SHELF 41 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2513010-01 Date Collected: 03/07/25 12:00
Client ID: CAN 3490 SHELF 41 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	98		60-140
bromochloromethane	102		60-140
chlorobenzene-d5	92		60-140

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/08/25 02:47
Analyst: KJD

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513010-05 Date Collected: 03/07/25 15:00
Client ID: CAN 2314 SHELF 37 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.996	--		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	***Lab Number:***	L2513010
Project Number:	CANISTER QC BAT	***Report Date:***	03/28/25

Air Canister Certification Results

Lab ID:	L2513010-05	Date Collected:	03/07/25 15:00
Client ID:	CAN 2314 SHELF 37	Date Received:	03/07/25
Sample Location:		Field Prep:	Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	95		60-140
chlorobenzene-d5	86		60-140

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/08/25 02:47
Analyst: KJD

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2513010-05
Client ID: CAN 2314 SHELF 37
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	89		60-140
bromochloromethane	99		60-140
chlorobenzene-d5	92		60-140

Air Canister Certification Results

Lab ID: L2513010-06
Client ID: CAN 1641 SHELF 38
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/08/25 03:26
Analyst: KJD

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2513010-06
Client ID: CAN 1641 SHELF 38
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513010-06
Client ID: CAN 1641 SHELF 38
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L2513010-06
Client ID: CAN 1641 SHELF 38
Sample Location:

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	0.996	--		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	***Lab Number:***	L2513010
Project Number:	CANISTER QC BAT	***Report Date:***	03/28/25

Air Canister Certification Results

Lab ID:	L2513010-06	Date Collected:	03/07/25 15:00
Client ID:	CAN 1641 SHELF 38	Date Received:	03/07/25
Sample Location:		Field Prep:	Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	81		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	89		60-140

Air Canister Certification Results

Lab ID: L2513010-06
Client ID: CAN 1641 SHELF 38
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/08/25 03:26
Analyst: KJD

Date Collected: 03/07/25 15:00
Date Received: 03/07/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513010-06 Date Collected: 03/07/25 15:00
Client ID: CAN 1641 SHELF 38 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2513010-06 Date Collected: 03/07/25 15:00
Client ID: CAN 1641 SHELF 38 Date Received: 03/07/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	89		60-140
bromochloromethane	101		60-140
chlorobenzene-d5	96		60-140

Air Canister Certification Results

Lab ID: L2513230-03
Client ID: CAN 656 SHELF 60
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/10/25 18:54
Analyst: JFI

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.996	--		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					

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	97		60-140
chlorobenzene-d5	86		60-140

Air Canister Certification Results

Lab ID: L2513230-03
Client ID: CAN 656 SHELF 60
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/10/25 18:54
Analyst: JFI

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2513230-03 Date Collected: 03/08/25 18:00
Client ID: CAN 656 SHELF 60 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	108		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2513230-04
Client ID: CAN 2065 SHELF 61
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 03/10/25 19:32
Analyst: JFI

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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	1.00	--	ND	2.46	--		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

Air Canister Certification Results

Lab ID: L2513230-04
Client ID: CAN 2065 SHELF 61
Sample Location:

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513230-04
Client ID: CAN 2065 SHELF 61
Sample Location:

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

	ppbV			ug/m3				
Parameter	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**	**Dilution Factor**
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

Air Canister Certification Results

Lab ID: L2513230-04 Date Collected: 03/08/25 18:00
Client ID: CAN 2065 SHELF 61 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	0.996	--		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	***Lab Number:***	L2513230
Project Number:	CANISTER QC BAT	***Report Date:***	03/28/25

Air Canister Certification Results

Lab ID:	L2513230-04	Date Collected:	03/08/25 18:00
Client ID:	CAN 2065 SHELF 61	Date Received:	03/10/25
Sample Location:		Field Prep:	Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	86		60-140
Bromochloromethane	96		60-140
chlorobenzene-d5	87		60-140

Air Canister Certification Results

Lab ID: L2513230-04
Client ID: CAN 2065 SHELF 61
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 03/10/25 19:32
Analyst: JFI

Date Collected: 03/08/25 18:00
Date Received: 03/10/25
Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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

Air Canister Certification Results

Lab ID: L2513230-04 Date Collected: 03/08/25 18:00
Client ID: CAN 2065 SHELF 61 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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-Trimethybenzene	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

Air Canister Certification Results

Lab ID: L2513230-04 Date Collected: 03/08/25 18:00
Client ID: CAN 2065 SHELF 61 Date Received: 03/10/25
Sample Location: Field Prep: Not Specified

Parameter	ppbV Results	ppbV RL	ppbV MDL	ug/m3 Results	ug/m3 RL	ug/m3 MDL	Qualifier	Dilution Factor
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	93		60-140
bromochloromethane	108		60-140
chlorobenzene-d5	96		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2046188-3	**Analysis Date** : 03/27/25 12:22	**File ID** : R262485
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
Dichlorodifluoromethane	10	12.2	122				-	70-130	-
Chloromethane	10	11.0	110				-	70-130	-
Freon-114	10	12.1	121				-	70-130	-
Vinyl chloride	10	11.0	110				-	70-130	-
1,3-Butadiene	10	12.5	125				-	70-130	-
Bromomethane	10	11.8	118				-	70-130	-
Chloroethane	10	11.1	111				-	70-130	-
Ethanol	50	41.2	82				-	40-160	-
Vinyl bromide	10	11.0	110				-	70-130	-
Acetone	50	58.0	116				-	40-160	-
Trichlorofluoromethane	10	10.6	106				-	70-130	-
Isopropanol	25	21.7	87				-	40-160	-
1,1-Dichloroethene	10	9.68	97				-	70-130	-
Tertiary butyl Alcohol	10	9.20	92				-	70-130	-
Methylene chloride	10	11.2	112				-	70-130	-
3-Chloropropene	10	12.1	121				-	70-130	-
Carbon disulfide	10	12.5	125				-	70-130	-
Freon-113	10	11.3	113				-	70-130	-
trans-1,2-Dichloroethene	10	12.3	123				-	70-130	-
1,1-Dichloroethane	10	11.3	113				-	70-130	-
Methyl tert butyl ether	10	12.1	121				-	70-130	-
2-Butanone	10	11.0	110				-	70-130	-
cis-1,2-Dichloroethene	10	10.7	107				-	70-130	-
Ethyl Acetate	10	9.48	95				-	70-130	-
Chloroform	10	10.9	109				-	70-130	-
Tetrahydrofuran	10	12.0	120				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2046188-3	**Analysis Date** : 03/27/25 12:22	**File ID** : R262485
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	True (ppbV)	Found (ppbV)	%R	True (ppbV)	Found (ppbV)	%R	RPD	Recovery Limits	RPD Limit
1,2-Dichloroethane	10	10.4	104				-	70-130	-
n-Hexane	10	12.0	120				-	70-130	-
1,1,1-Trichloroethane	10	10.2	102				-	70-130	-
Benzene	10	10.8	108				-	70-130	-
Carbon tetrachloride	10	10.7	107				-	70-130	-
Cyclohexane	10	11.7	117				-	70-130	-
1,2-Dichloropropane	10	10.5	105				-	70-130	-
Bromodichloromethane	10	12.3	123				-	70-130	-
1,4-Dioxane	10	11.3	113				-	70-130	-
Trichloroethene	10	10.7	107				-	70-130	-
2,2,4-Trimethylpentane	10	12.5	125				-	70-130	-
Heptane	10	12.4	124				-	70-130	-
cis-1,3-Dichloropropene	10	11.5	115				-	70-130	-
4-Methyl-2-pentanone	10	12.3	123				-	70-130	-
trans-1,3-Dichloropropene	10	12.6	126				-	70-130	-
1,1,2-Trichloroethane	10	11.1	111				-	70-130	-
Toluene	10	11.7	117				-	70-130	-
2-Hexanone	10	12.6	126				-	70-130	-
Dibromochloromethane	10	13.8	138 Q				-	70-130	-
1,2-Dibromoethane	10	12.3	123				-	70-130	-
Tetrachloroethene	10	11.8	118				-	70-130	-
Chlorobenzene	10	11.5	115				-	70-130	-
Ethylbenzene	10	11.9	119				-	70-130	-
p/m-Xylene	20	25.0	125				-	70-130	-
Bromoform	10	14.0	140 Q				-	70-130	-
Styrene	10	12.2	122				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2046188-3	**Analysis Date** : 03/27/25 12:22	**File ID** : R262485
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
1,1,2,2-Tetrachloroethane	10	12.2	122				-	70-130	-
o-Xylene	10	12.2	122				-	70-130	-
4-Ethyltoluene	10	14.1	141 Q				-	70-130	-
1,3,5-Trimethylbenzene	10	12.9	129				-	70-130	-
1,2,4-Trimethylbenzene	10	12.8	128				-	70-130	-
Benzyl chloride	10	13.2	132 Q				-	70-130	-
1,3-Dichlorobenzene	10	12.5	125				-	70-130	-
1,4-Dichlorobenzene	10	12.6	126				-	70-130	-
1,2-Dichlorobenzene	10	12.4	124				-	70-130	-
1,2,4-Trichlorobenzene	10	11.6	116				-	70-130	-
Naphthalene	10	12.6	126				-	70-130	-
Hexachlorobutadiene	10	10.8	108				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab Sample ID	: WG2046188-4	**Lab File ID**	: R262487
Instrument ID	: AIRLAB26		
Matrix	: AIR	**Analysis Date**	: 03/27/25 15:04

Client Sample No.	Lab Sample ID	Analysis Date
WG2046188-3LCS	WG2046188-3	03/27/25 12:22
AA-01_20250314	L2514968-01	03/27/25 20:04
IA-01_20250314	L2514968-02	03/27/25 20:37
IA-02_20250314	L2514968-03	03/27/25 21:10
IA-03_20250314	L2514968-04	03/27/25 21:42
IA-04_20250314	L2514968-05D	03/27/25 22:16
IA-05_20250314	L2514968-06	03/27/25 22:48
IA03_031425DUP	WG2046188-5	03/28/25 00:59
IA03_031425DUP	WG2046188-5D	03/28/25 09:09

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/14/25 19:59
Tune Standard	: WG2041764-1	**Tune File ID**	: R262179_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18
75	30.0 - 66.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	85.4
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101% of mass 174	83.5 (97.8)1
177	5.0 - 9.0% of mass 176	5.4 (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	R1941676-1	R262183	03/14/25 22:06
STD0.5	R1941676-2	R262184	03/14/25 22:40
STD1.0	R1941676-3	R262185	03/14/25 23:16
STD5.0	R1941676-4	R262186	03/14/25 23:50
STD010	R1941676-5	R262187	03/15/25 00:26
STD020	R1941676-6	R262188	03/15/25 00:58
STD050	R1941676-7	R262189	03/15/25 01:31
STD100	R1941676-8	R262190	03/15/25 02:06

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/17/25 09:58
Tune Standard	: WG2041764-2	**Tune File ID**	: R262195_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	50
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	85.8
175	4.0 - 9.0% of mass 174	6.2 (7.2)1
176	93.0 - 101% of mass 174	83 (96.6)1
177	5.0 - 9.0% of mass 176	5.2 (6.3)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
ICV Quant	R1941676-9	R262196	03/17/25 10:36

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/27/25 11:06
Tune Standard	: WG2046188-1	**Tune File ID**	: R262483_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18.1
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	86.3
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101% of mass 174	83.6 (96.8)1
177	5.0 - 9.0% of mass 176	5.5 (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
WG2046188-2CCAL	WG2046188-2	R262484	03/27/25 11:44
WG2046188-3LCS	WG2046188-3	R262485	03/27/25 12:22
WG2046188-4BLANK	WG2046188-4	R262487	03/27/25 15:04
AA-01_20250314	L2514968-01	R262491	03/27/25 20:04
IA-01_20250314	L2514968-02	R262492	03/27/25 20:37
IA-02_20250314	L2514968-03	R262493	03/27/25 21:10
IA-03_20250314	L2514968-04	R262494	03/27/25 21:42
IA-04_20250314	L2514968-05D	R262495	03/27/25 22:16
IA-05_20250314	L2514968-06	R262496	03/27/25 22:48
WG2046188-5DUP	WG2046188-5	R262500	03/28/25 00:59
WG2046188-5DUP	WG2046188-5D	R262513	03/28/25 09:09

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/27/25 11:44:00
Sample No	: WG2046188-2	**Lab File ID**	: R262484

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG2046188-2	175168	3.50	612528	4.37	94640	6.45
Upper Limit	245235	3.83	857539	4.70	132496	6.78
Lower Limit	105101	3.17	367517	4.04	56784	6.12
Sample ID						
WG2046188-3 LCS	184924	3.51	652322	4.37	96979	6.45
WG2046188-4 BLANK	187379	3.50	617292	4.37	89857	6.45
AA-01_20250314	181312	3.51	571947	4.37	91240	6.45
IA-01_20250314	175956	3.51	591233	4.37	96951	6.45
IA-02_20250314	182984	3.51	602021	4.37	96676	6.45
IA-03_20250314	187283	3.51	625178	4.37	100853	6.46
IA-04_20250314	185085	3.51	612837	4.37	97474	6.45
IA-05_20250314	184689	3.51	626940	4.37	101752	6.45
IA03_031425 DUP	190675	3.51	663140	4.37	99384	6.45
IA03_031425 DUP	176121	3.51	561202	4.37	86341	6.46

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

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)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

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

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		
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	GCDAI06	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			

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

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Created By: Jason Hebert
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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*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-01	Date Collected	: 03/14/25 12:30
Client ID	: AA-01_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 20:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262491	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.516	0.200	--	2.55	0.989	--	
74-87-3	Chloromethane	0.641	0.200	--	1.32	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	6.95	5.00	--	13.1	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.03	1.00	--	9.57	2.38	--	
75-69-4	Trichlorofluoromethane	0.222	0.200	--	1.25	1.12	--	
67-63-0	Isopropanol	1.51	1.00	--	3.71	2.46	--	
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	0.760	0.500	--	2.24	1.47	--	
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	0.235	0.200	--	0.828	0.705	--	
71-43-2	Benzene	0.206	0.200	--	0.658	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-01	Date Collected	: 03/14/25 12:30
Client ID	: AA-01_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 20:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262491	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.856	0.200	--	3.23	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	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-01	**Date Collected**	: 03/14/25 12:30
Client ID	: AA-01_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 20:04
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R262491	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-02	Date Collected	: 03/14/25 08:00
Client ID	: IA-01_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 20:37
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262492	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.541	0.200	--	2.68	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	23.7	5.00	--	44.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	66.3	1.00	--	157	2.38	--	
75-69-4	Trichlorofluoromethane	0.219	0.200	--	1.23	1.12	--	
67-63-0	Isopropanol	7.91	1.00	--	19.4	2.46	--	
75-65-0	Tertiary butyl Alcohol	13.2	0.500	--	40.0	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	97.4	0.500	--	287	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.622	0.200	--	3.04	0.977	--	
109-99-9	Tetrahydrofuran	9.80	0.500	--	28.9	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.409	0.200	--	1.44	0.705	--	
71-43-2	Benzene	0.695	0.200	--	2.22	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-02	Date Collected	: 03/14/25 08:00
Client ID	: IA-01_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 20:37
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262492	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.852	0.200	--	2.93	0.688	--	
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	0.507	0.500	--	2.08	2.05	--	
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	15.7	0.200	--	59.2	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	1.04	0.200	--	4.52	0.869	--	
179601-23-1	p/m-Xylene	4.06	0.400	--	17.6	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.415	0.200	--	1.77	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	1.16	0.200	--	5.04	0.869	--	
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	0.226	0.200	--	1.11	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	0.956	0.200	--	4.70	0.983	--	
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	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-02	**Date Collected**	: 03/14/25 08:00
Client ID	: IA-01_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 20:37
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R262492	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-03	Date Collected	: 03/14/25 11:55
Client ID	: IA-02_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 21:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262493	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.486	0.200	--	2.40	0.989	--	
74-87-3	Chloromethane	0.631	0.200	--	1.30	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	14.2	5.00	--	26.8	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	29.5	1.00	--	70.1	2.38	--	
75-69-4	Trichlorofluoromethane	0.224	0.200	--	1.26	1.12	--	
67-63-0	Isopropanol	5.40	1.00	--	13.3	2.46	--	
75-65-0	Tertiary butyl Alcohol	5.39	0.500	--	16.3	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	23.0	0.500	--	67.8	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.593	0.200	--	2.90	0.977	--	
109-99-9	Tetrahydrofuran	1.85	0.500	--	5.46	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.393	0.200	--	1.39	0.705	--	
71-43-2	Benzene	0.453	0.200	--	1.45	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-03	Date Collected	: 03/14/25 11:55
Client ID	: IA-02_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 21:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262493	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.380	0.200	--	1.31	0.688	--	
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	9.08	0.200	--	34.2	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	0.531	0.200	--	2.31	0.869	--	
179601-23-1	p/m-Xylene	1.84	0.400	--	7.99	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.385	0.200	--	1.64	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.464	0.200	--	2.02	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	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-03	Date Collected	: 03/14/25 11:55
Client ID	: IA-02_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 21:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262493	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-04	Date Collected	: 03/14/25 12:02
Client ID	: IA-03_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 21:42
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262494	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.528	0.200	--	2.61	0.989	--	
74-87-3	Chloromethane	0.548	0.200	--	1.13	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	17.2	5.00	--	32.4	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	61.1	1.00	--	145	2.38	--	
75-69-4	Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--	
67-63-0	Isopropanol	21.1	1.00	--	51.9	2.46	--	
75-65-0	Tertiary butyl Alcohol	11.7	0.500	--	35.5	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	29.0	0.500	--	85.5	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	3.22	0.200	--	15.7	0.977	--	
109-99-9	Tetrahydrofuran	7.48	0.500	--	22.1	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	3.54	0.200	--	12.5	0.705	--	
71-43-2	Benzene	0.543	0.200	--	1.73	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-04	Date Collected	: 03/14/25 12:02
Client ID	: IA-03_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 21:42
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262494	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.643	0.200	--	2.21	0.688	--	
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	0.253	0.200	--	1.69	1.34	--	
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	0.558	0.500	--	2.29	2.05	--	
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	47.6	0.200	--	179	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	0.525	0.200	--	2.28	0.869	--	
179601-23-1	p/m-Xylene	1.80	0.400	--	7.82	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.488	0.200	--	2.08	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.512	0.200	--	2.22	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	0.609	0.200	--	2.99	0.983	--	
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	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-04	**Date Collected**	: 03/14/25 12:02
Client ID	: IA-03_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 21:42
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TPH
Lab File ID	: R262494	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-05D	Date Collected	: 03/14/25 12:10
Client ID	: IA-04_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:16
Sample Matrix	: AIR	Dilution Factor	: 2.041
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262495	Instrument ID	: AIRLAB26
Sample Amount	: 123 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.512	0.408	--	2.53	2.02	--	
74-87-3	Chloromethane	0.708	0.408	--	1.46	0.843	--	
76-14-2	Freon-114	ND	0.408	--	ND	2.85	--	U
106-99-0	1,3-Butadiene	ND	0.408	--	ND	0.903	--	U
74-83-9	Bromomethane	ND	0.408	--	ND	1.58	--	U
75-00-3	Chloroethane	ND	0.408	--	ND	1.08	--	U
64-17-5	Ethanol	27.7	10.2	--	52.2	19.2	--	
593-60-2	Vinyl bromide	ND	0.408	--	ND	1.78	--	U
67-64-1	Acetone	50.6	2.04	--	120	4.85	--	
75-69-4	Trichlorofluoromethane	ND	0.408	--	ND	2.29	--	U
67-63-0	Isopropanol	6.67	2.04	--	16.4	5.01	--	
75-65-0	Tertiary butyl Alcohol	3.71	1.02	--	11.2	3.09	--	
75-09-2	Methylene chloride	ND	1.02	--	ND	3.54	--	U
107-05-1	3-Chloropropene	ND	0.408	--	ND	1.28	--	U
75-15-0	Carbon disulfide	ND	0.408	--	ND	1.27	--	U
76-13-1	Freon-113	ND	0.408	--	ND	3.13	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.408	--	ND	1.62	--	U
75-34-3	1,1-Dichloroethane	ND	0.408	--	ND	1.65	--	U
1634-04-4	Methyl tert butyl ether	ND	0.408	--	ND	1.47	--	U
78-93-3	2-Butanone	31.8	1.02	--	93.8	3.01	--	
141-78-6	Ethyl Acetate	ND	1.02	--	ND	3.68	--	U
67-66-3	Chloroform	ND	0.408	--	ND	1.99	--	U
109-99-9	Tetrahydrofuran	ND	1.02	--	ND	3.01	--	U
107-06-2	1,2-Dichloroethane	ND	0.408	--	ND	1.65	--	U
110-54-3	n-Hexane	0.778	0.408	--	2.74	1.44	--	
71-43-2	Benzene	0.588	0.408	--	1.88	1.30	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-05D	Date Collected	: 03/14/25 12:10
Client ID	: IA-04_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:16
Sample Matrix	: AIR	Dilution Factor	: 2.041
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262495	Instrument ID	: AIRLAB26
Sample Amount	: 123 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	2.70	0.408	--	9.29	1.40	--	
78-87-5	1,2-Dichloropropane	ND	0.408	--	ND	1.89	--	U
75-27-4	Bromodichloromethane	ND	0.408	--	ND	2.73	--	U
123-91-1	1,4-Dioxane	ND	0.408	--	ND	1.47	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.408	--	ND	1.91	--	U
142-82-5	Heptane	ND	0.408	--	ND	1.67	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.408	--	ND	1.85	--	U
108-10-1	4-Methyl-2-pentanone	ND	1.02	--	ND	4.18	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.408	--	ND	1.85	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.408	--	ND	2.23	--	U
108-88-3	Toluene	12.7	0.408	--	47.9	1.54	--	
591-78-6	2-Hexanone	ND	0.408	--	ND	1.67	--	U
124-48-1	Dibromochloromethane	ND	0.408	--	ND	3.48	--	U
106-93-4	1,2-Dibromoethane	ND	0.408	--	ND	3.14	--	U
108-90-7	Chlorobenzene	ND	0.408	--	ND	1.88	--	U
100-41-4	Ethylbenzene	0.484	0.408	--	2.10	1.77	--	
179601-23-1	p/m-Xylene	1.76	0.816	--	7.64	3.54	--	
75-25-2	Bromoform	ND	0.408	--	ND	4.22	--	U
100-42-5	Styrene	ND	0.408	--	ND	1.74	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.408	--	ND	2.80	--	U
95-47-6	o-Xylene	0.502	0.408	--	2.18	1.77	--	
622-96-8	4-Ethyltoluene	ND	0.408	--	ND	2.01	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.408	--	ND	2.01	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.408	--	ND	2.01	--	U
100-44-7	Benzyl chloride	ND	0.408	--	ND	2.11	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.408	--	ND	2.45	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-05D	Date Collected	: 03/14/25 12:10
Client ID	: IA-04_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:16
Sample Matrix	: AIR	Dilution Factor	: 2.041
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262495	Instrument ID	: AIRLAB26
Sample Amount	: 123 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
106-46-7	1,4-Dichlorobenzene	ND	0.408	--	ND	2.45	--	U
95-50-1	1,2-Dichlorobenzene	ND	0.408	--	ND	2.45	--	U
120-82-1	1,2,4-Trichlorobenzene	ND	0.408	--	ND	3.03	--	U
91-20-3	Naphthalene	ND	0.388	--	ND	2.03	--	U
87-68-3	Hexachlorobutadiene	ND	0.408	--	ND	4.35	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-06	Date Collected	: 03/14/25 11:22
Client ID	: IA-05_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:48
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262496	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
75-71-8	Dichlorodifluoromethane	0.514	0.200	--	2.54	0.989	--	
74-87-3	Chloromethane	0.624	0.200	--	1.29	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	23.5	5.00	--	44.3	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	29.7	1.00	--	70.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.226	0.200	--	1.27	1.12	--	
67-63-0	Isopropanol	7.66	1.00	--	18.8	2.46	--	
75-65-0	Tertiary butyl Alcohol	6.84	0.500	--	20.7	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	72.5	0.500	--	214	1.47	--	
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	0.308	0.200	--	1.50	0.977	--	
109-99-9	Tetrahydrofuran	3.70	0.500	--	10.9	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.509	0.200	--	1.79	0.705	--	
71-43-2	Benzene	0.783	0.200	--	2.50	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-06	Date Collected	: 03/14/25 11:22
Client ID	: IA-05_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:48
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262496	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	0.833	0.200	--	2.87	0.688	--	
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	0.657	0.200	--	2.69	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	9.70	0.200	--	36.6	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	0.755	0.200	--	3.28	0.869	--	
179601-23-1	p/m-Xylene	2.83	0.400	--	12.3	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.251	0.200	--	1.07	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.766	0.200	--	3.33	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	0.482	0.200	--	2.37	0.983	--	
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	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: L2514968-06	Date Collected	: 03/14/25 11:22
Client ID	: IA-05_20250314	Date Received	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	Date Analyzed	: 03/27/25 22:48
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262496	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: WG2046188-4	Date Collected	: NA
Client ID	: WG2046188-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/27/25 15:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262487	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	1.00	--	ND	2.46	--	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	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: WG2046188-4	Date Collected	: NA
Client ID	: WG2046188-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/27/25 15:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262487	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: WG2046188-4	Date Collected	: NA
Client ID	: WG2046188-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/27/25 15:04
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TPH
Lab File ID	: R262487	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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	0.190	--	ND	0.996	--	U
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262491.D
Acq On : 27 Mar 2025 08:04 pm
Operator : AIRLAB26:TPH
Sample : L2514968-01,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 06:46:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	181312	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 103.51%			
43) 1,4-difluorobenzene	4.365	114	571947	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 93.37%			
67) chlorobenzene-D5	6.449	54	91240	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 96.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.019	85	16584	0.516	ppbV	95
6) chloromethane	2.068	50	7163	0.641	ppbV #	83
7) Freon-114	2.101		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.266		0	N.D.		
14) chloroethane	2.321		0	N.D.		
15) ethanol	2.359	31	57016	6.951	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.505	43	87020M6	4.034	ppbV	
21) trichlorofluoromethane	2.551	101	12477	0.222	ppbV	91
22) isopropyl alcohol	2.568	45	39009	1.511	ppbV #	97
27) tertiary butyl alcohol	2.741	59	8656	0.189	ppbV #	88
28) methylene chloride	2.760	49	4616	0.196	ppbV #	75
29) 3-chloropropene	2.836		0	N.D.		
30) carbon disulfide	2.846		0	N.D.		
31) Freon 113	2.846	101	3506	0.074	ppbV	95
32) trans-1,2-dichloroethene	3.053		0	N.D.		
33) 1,1-dichloroethane	3.124		0	N.D.		
34) MTBE	3.164		0	N.D.		
36) 2-butanone	3.288	43	15235	0.760	ppbV	91
38) Ethyl Acetate	3.560	61	340	0.082	ppbV #	1
39) chloroform	3.560	83	1042	0.034	ppbV #	76
40) Tetrahydrofuran	3.747		0	N.D.		
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.545	57	3527	0.235	ppbV #	10
50) benzene	4.177	78	7840	0.206	ppbV	94
53) cyclohexane	4.309	56	862	0.057	ppbV #	84
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262491.D
Acq On : 27 Mar 2025 08:04 pm
Operator : AIRLAB26:TPH
Sample : L2514968-01,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 06:46:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

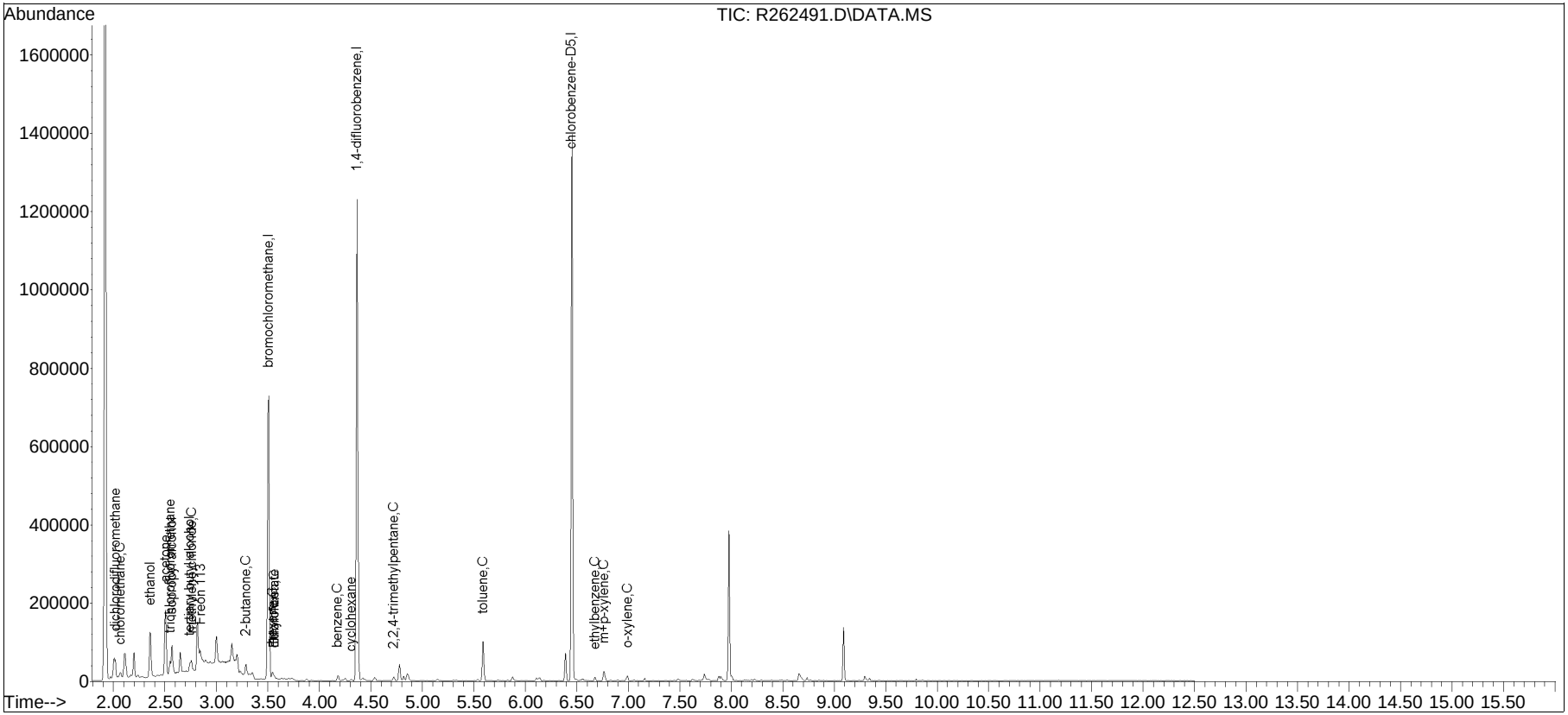
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.723	57	5199	0.110	ppbV #	88
62) heptane	0.000		0	N.D.	d	
63) cis-1,3-dichloropropene	5.126		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.	d	
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	41415	0.856	ppbV	89
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	6.476		0	N.D.		
81) ethylbenzene	6.678	91	4233	0.070	ppbV	99
83) m+p-xylene	6.766	91	10511	0.215	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	6.945		0	N.D.		
86) 1,1,2,2-tetrachloroethane	6.998		0	N.D.		
87) o-xylene	6.992	91	3561	0.073	ppbV	88
96) 4-ethyl toluene	7.643		0	N.D.		
97) 1,3,5-trimethylbenzene	7.690		0	N.D.		
99) 1,2,4-trimethylbenzene	7.778		0	N.D.		
101) Benzyl Chloride	7.970		0	N.D.		
102) 1,3-dichlorobenzene	7.970		0	N.D.		
103) 1,4-dichlorobenzene	8.002		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.189		0	N.D.		
116) naphthalene	9.241		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

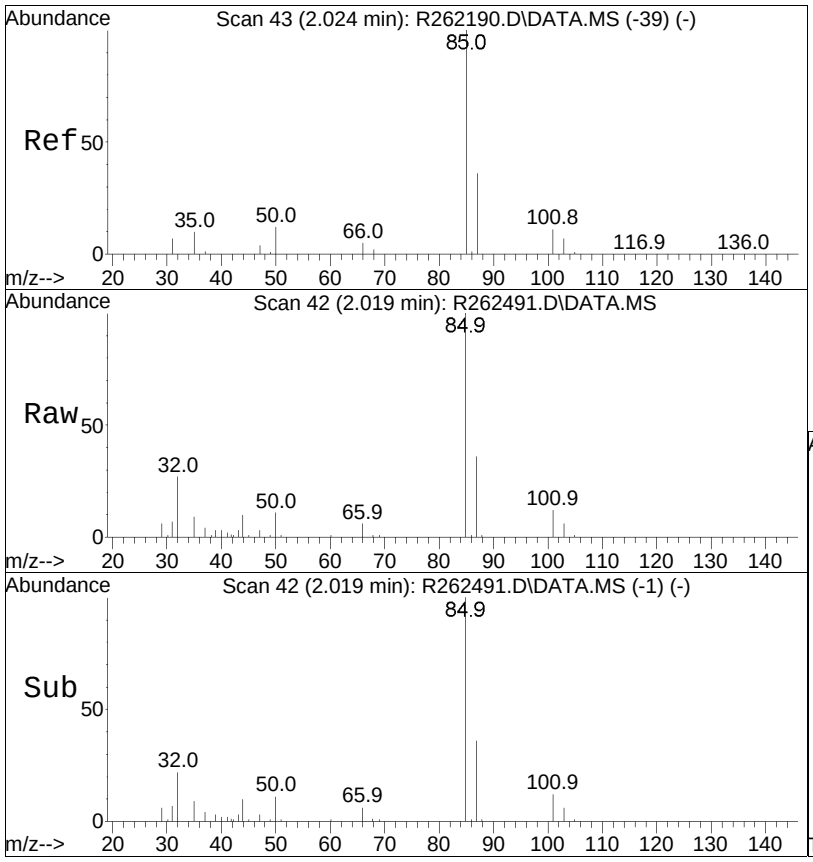
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262491.D
Acq On : 27 Mar 2025 08:04 pm
Operator : AIRLAB26:TPH
Sample : L2514968-01,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 06:46:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

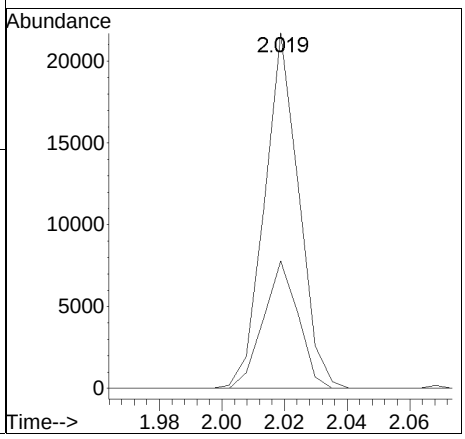


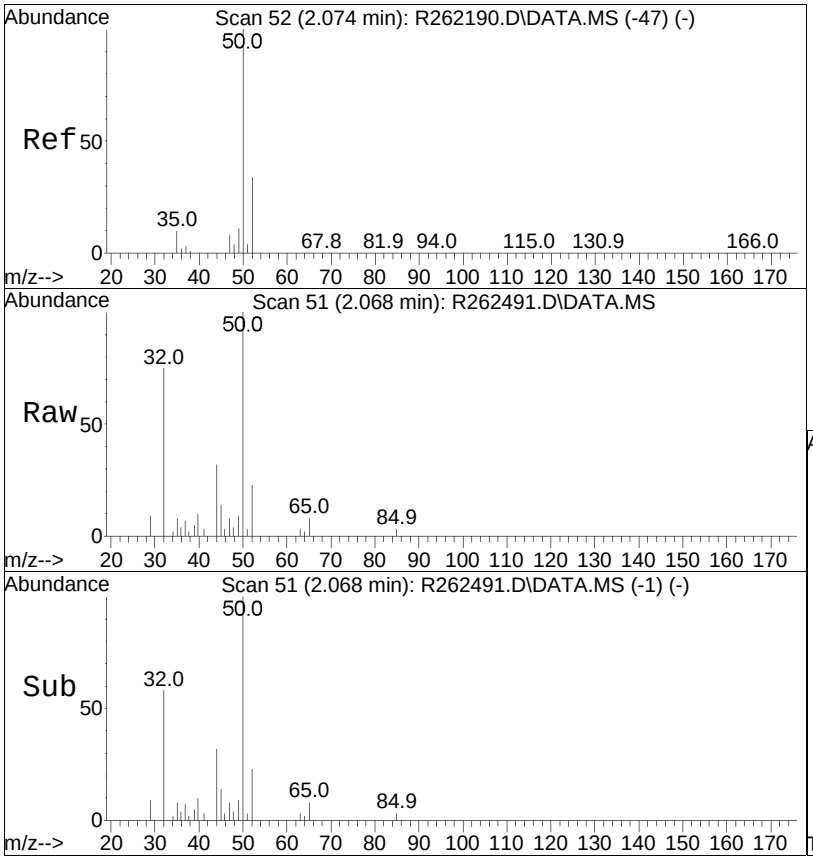


#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 2.019 min Scan# 42
Delta R.T. -0.006 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 85 Resp: 16584

Ion	Ratio	Lower	Upper
85	100		
87	35.8	26.4	39.6

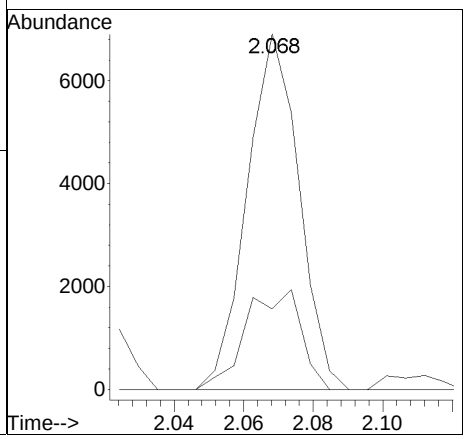


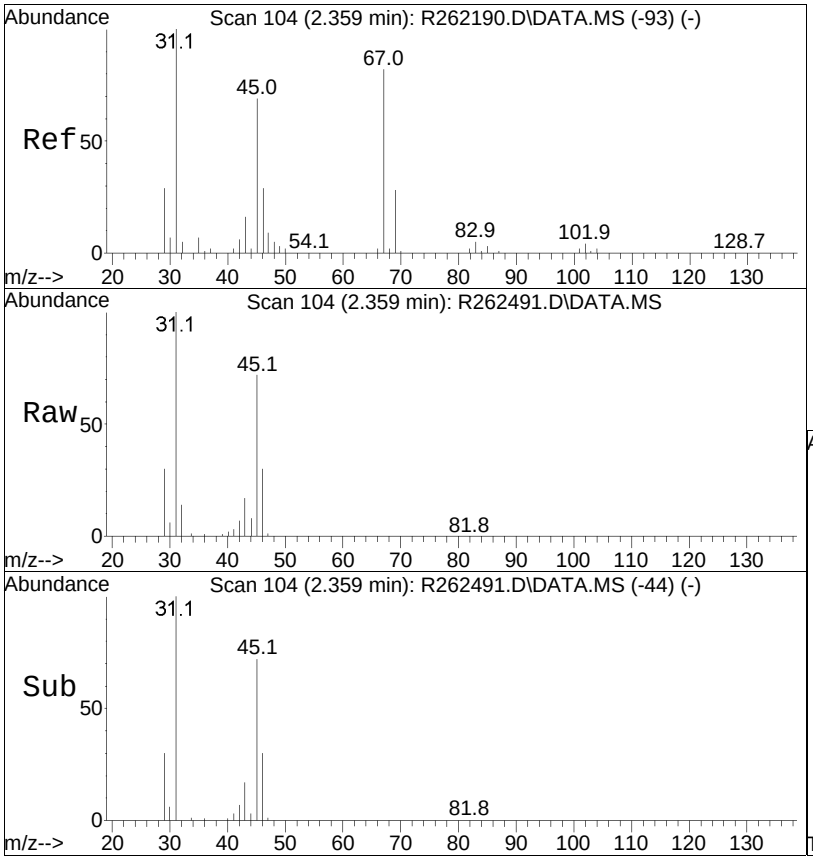


#6
chloromethane
Concen: 0.64 ppbV
RT: 2.068 min Scan# 51
Delta R.T. -0.006 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 50 Resp: 7163

Ion	Ratio	Lower	Upper
50	100		
52	22.6	25.6	38.4#

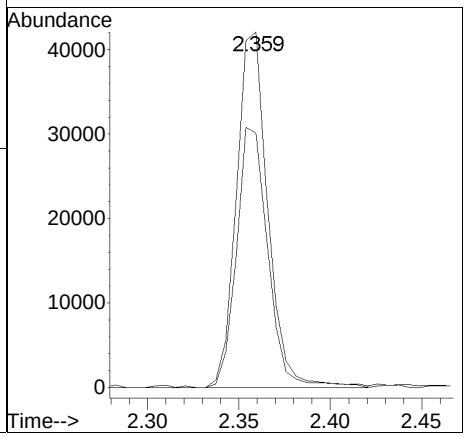


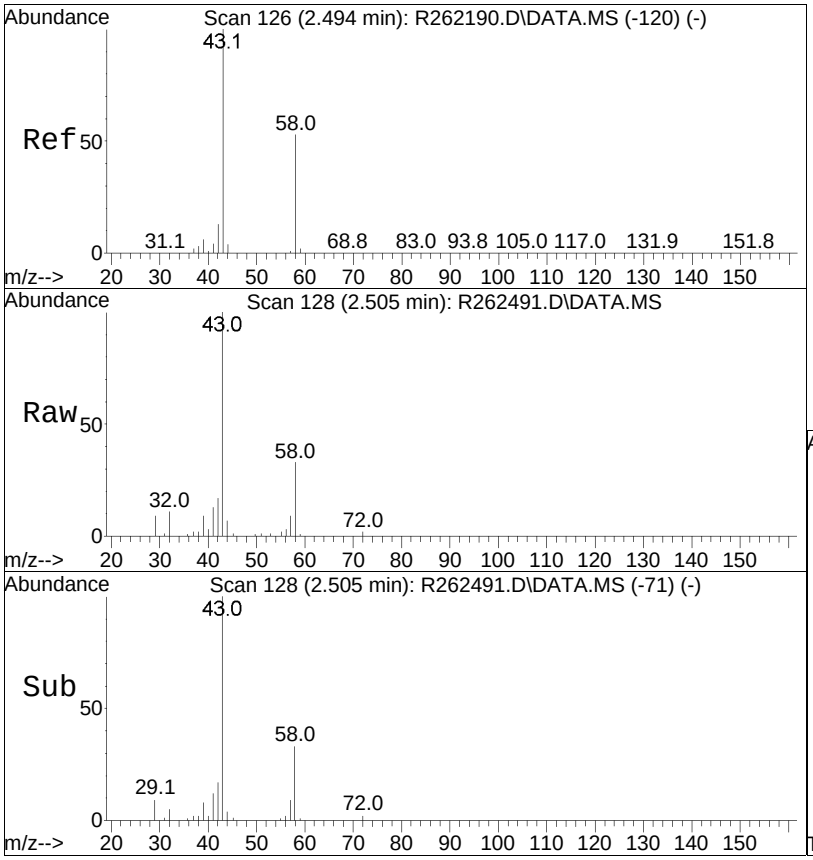


#15
ethanol
Concen: 6.95 ppbV
RT: 2.359 min Scan# 104
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 31 Resp: 57016

Ion	Ratio	Lower	Upper
31	100		
45	71.6	55.4	83.2

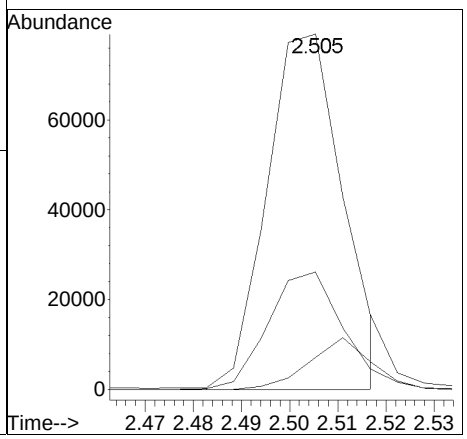


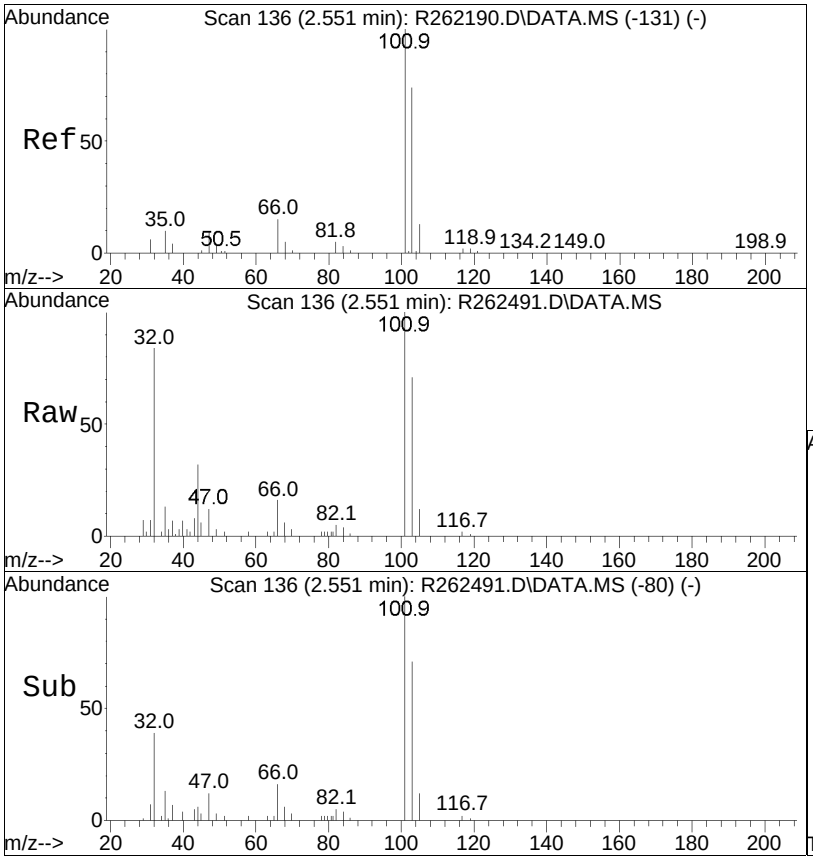


#19
acetone
Concen: 4.03 ppbV m
RT: 2.505 min Scan# 128
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 43 Resp: 87020

Ion	Ratio	Lower	Upper
43	100		
58	33.0	26.7	40.1
57	9.0	0.7	1.1#

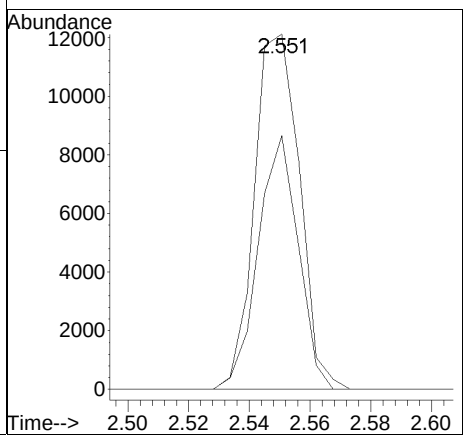


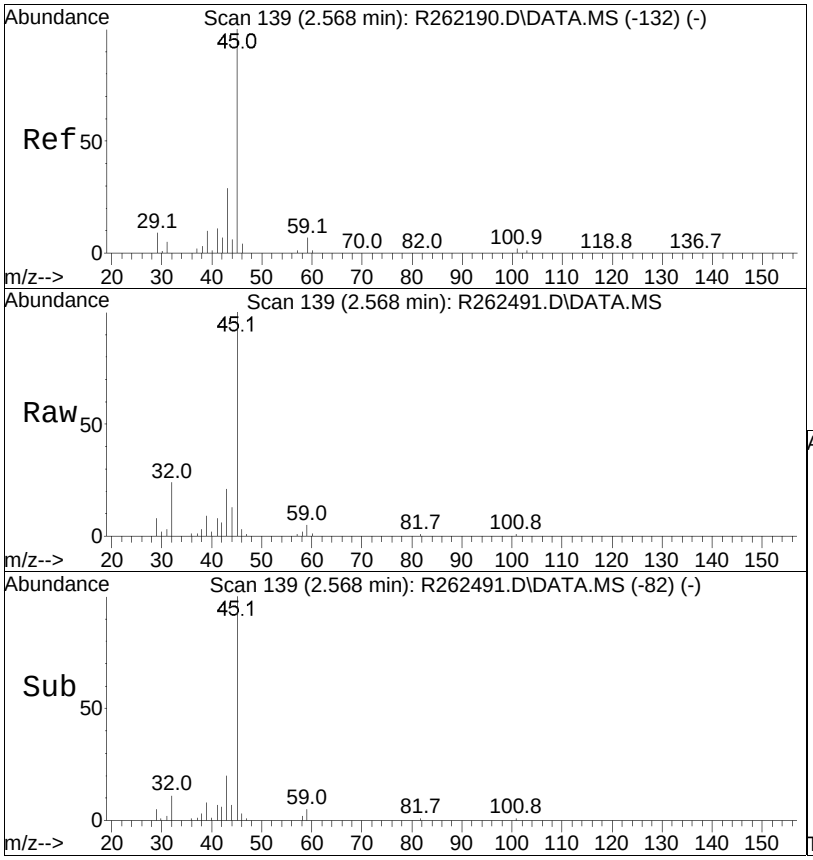


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 2.551 min Scan# 136
Delta R.T. -0.006 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion:101 Resp: 12477

Ion	Ratio	Lower	Upper
101	100		
103	71.4	51.7	77.5

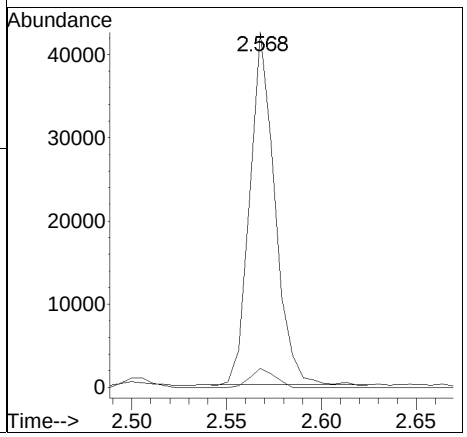


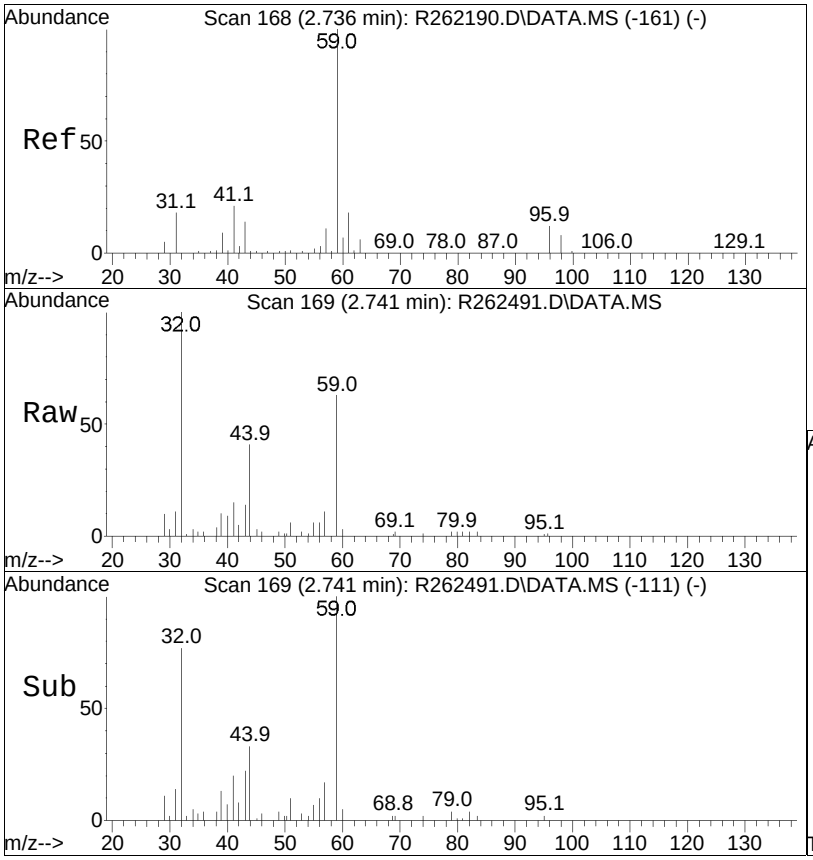


#22
isopropyl alcohol
Concen: 1.51 ppbV
RT: 2.568 min Scan# 139
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 45 Resp: 39009

Ion	Ratio	Lower	Upper
45	100		
59	5.3	3.5	5.3#

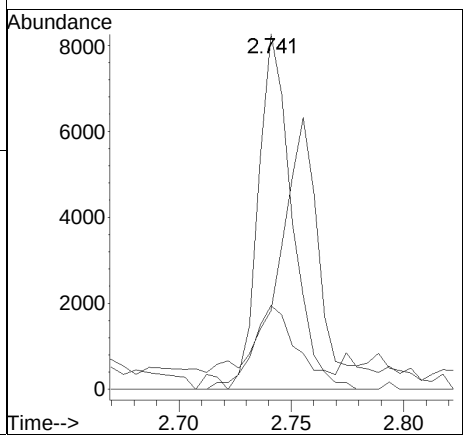


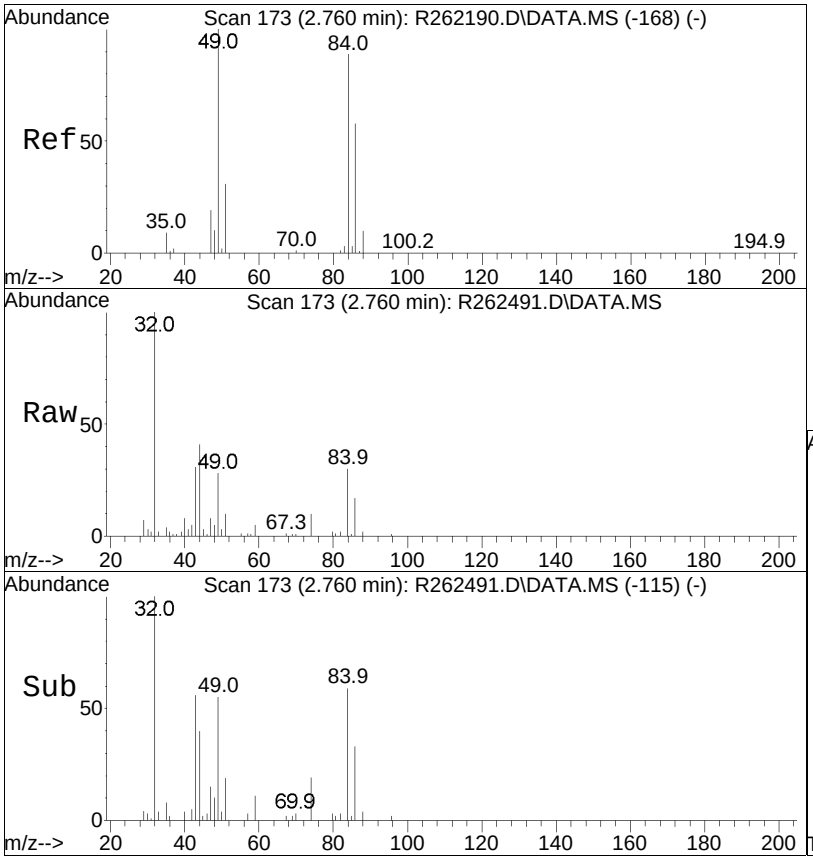


#27
tertiary butyl alcohol
Concen: 0.19 ppbV
RT: 2.741 min Scan# 169
Delta R.T. 0.005 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 59 Resp: 8656

Ion	Ratio	Lower	Upper
59	100		
41	23.6	16.5	24.7
43	22.2	10.8	16.2#

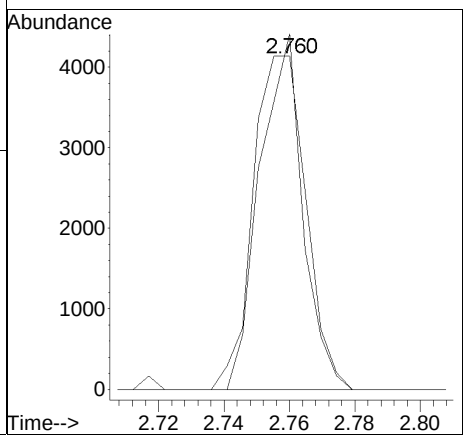


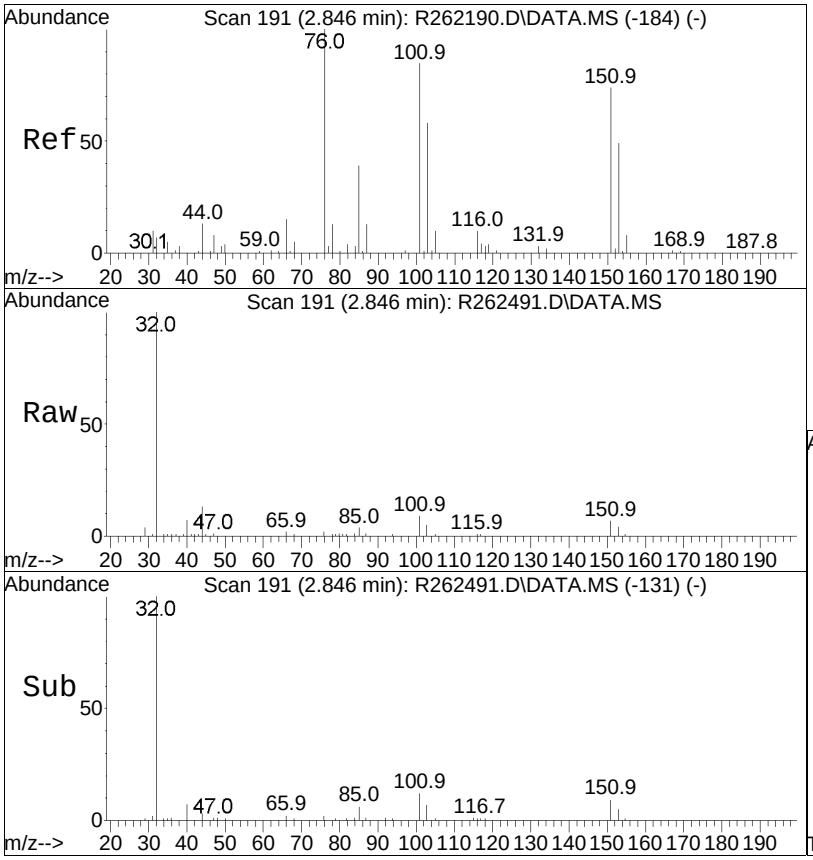


#28
methylene chloride
Concen: 0.20 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 49 Resp: 4616

Ion	Ratio	Lower	Upper
49	100		
84	106.5	67.1	100.7#

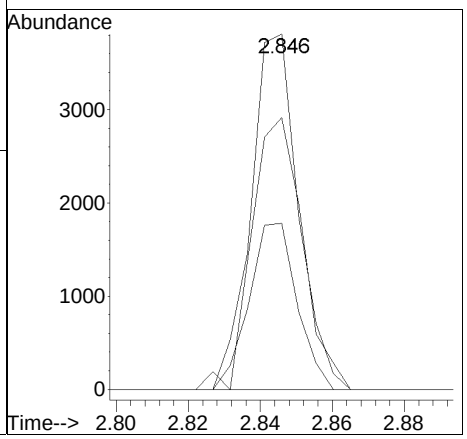


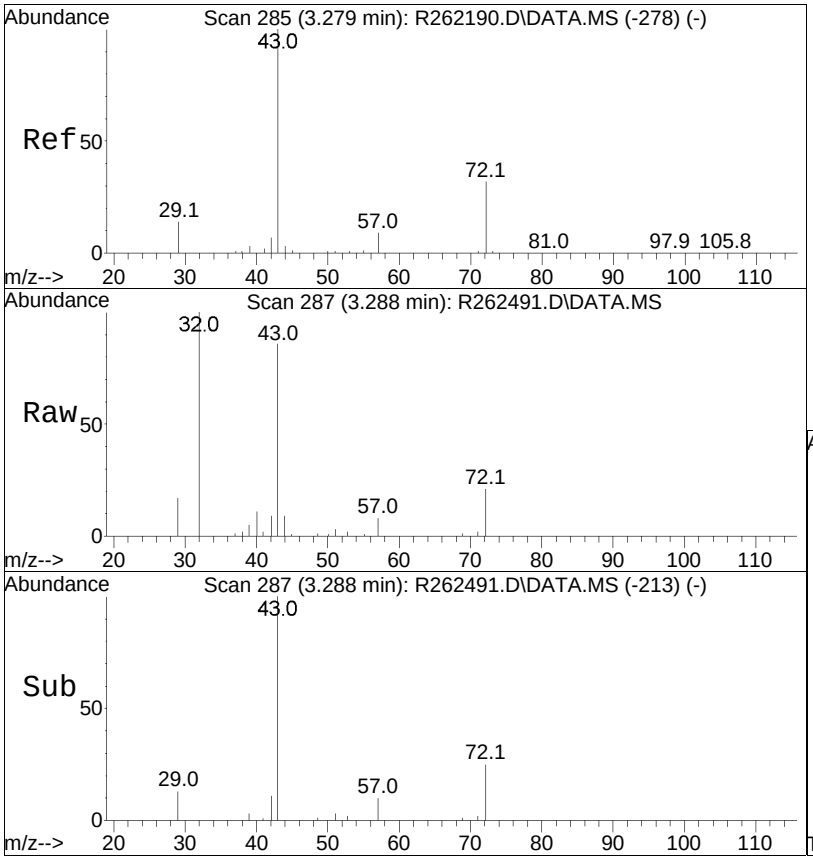


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.846 min Scan# 191
Delta R.T. -0.005 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion:101 Resp: 3506

Ion	Ratio	Lower	Upper
101	100		
85	46.7	34.0	51.0
151	76.5	64.4	96.6

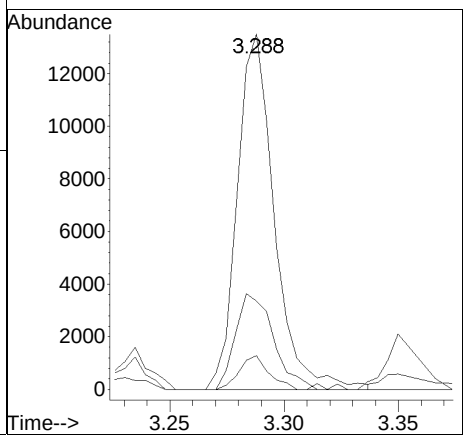


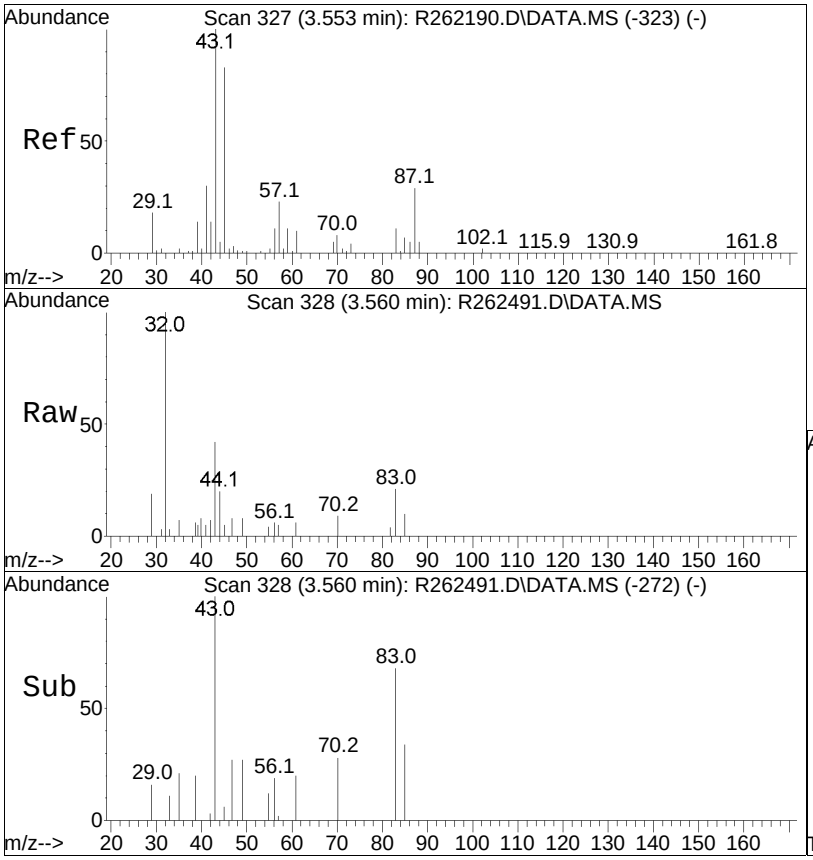


#36
2-butanone
Concen: 0.76 ppbV
RT: 3.288 min Scan# 287
Delta R.T. 0.004 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 43 Resp: 15235

Ion	Ratio	Lower	Upper
43	100		
72	24.9	24.5	36.7
57	9.5	7.0	10.6

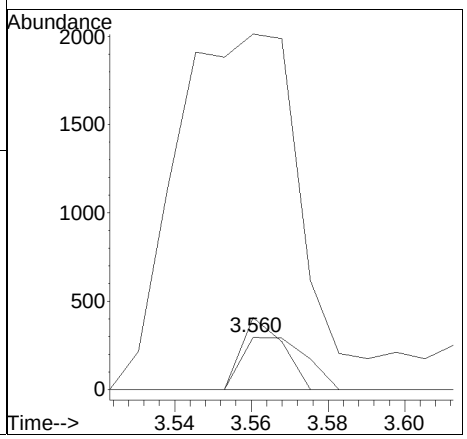


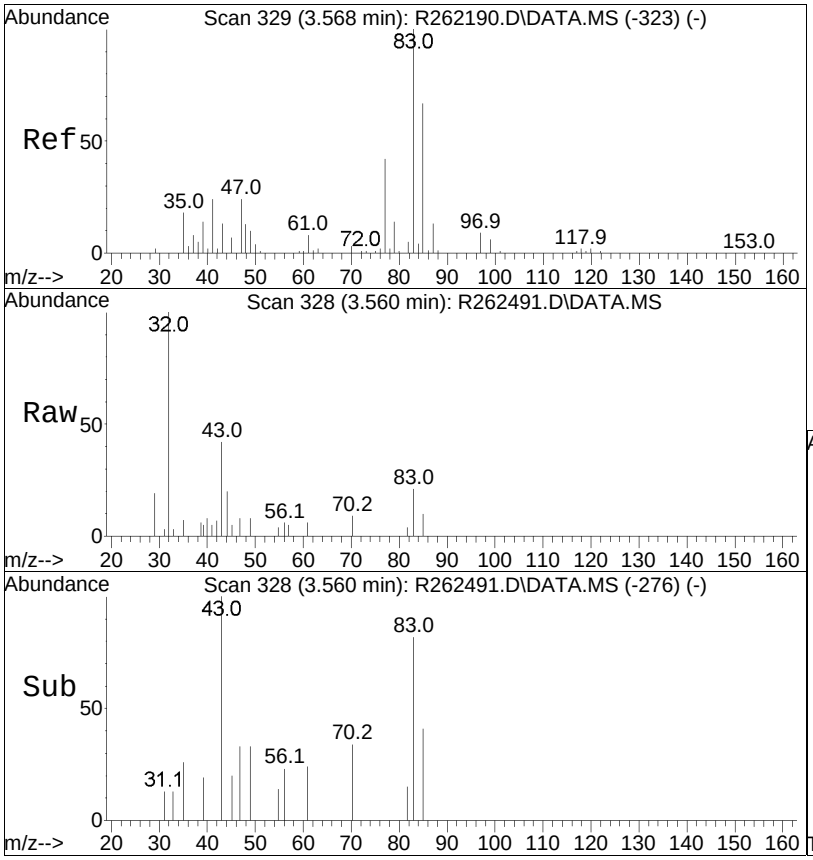


#38
Ethyl Acetate
Concen: 0.08 ppbV
RT: 3.560 min Scan# 328
Delta R.T. 0.007 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 61 Resp: 340

Ion	Ratio	Lower	Upper
61	100		
70	138.0	65.2	97.8#
43	682.4	1134.1	1701.1#

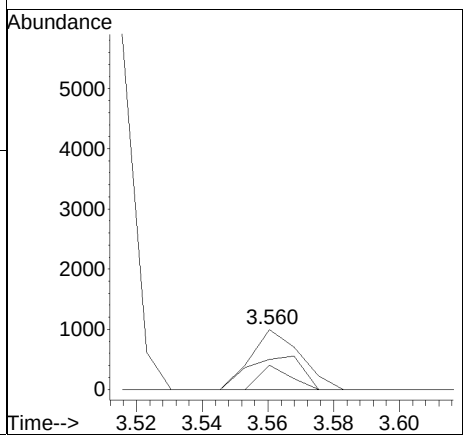


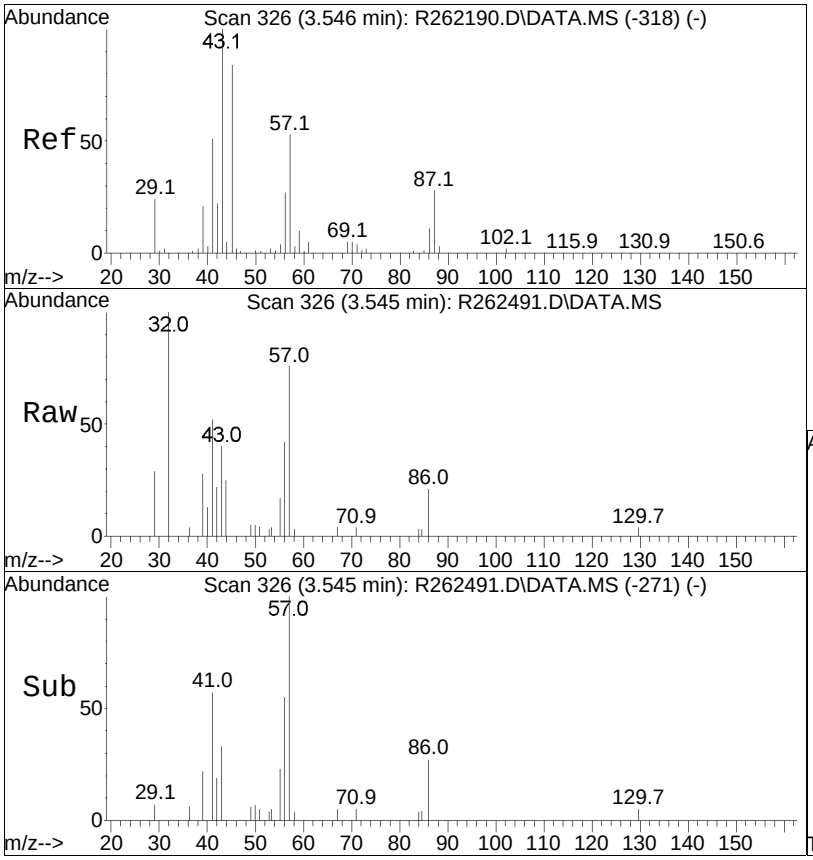


#39
chloroform
Concen: 0.03 ppbV
RT: 3.560 min Scan# 328
Delta R.T. -0.008 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 83 Resp: 1042

Ion	Ratio	Lower	Upper
83	100		
85	50.2	53.0	79.4#
47	40.4	18.2	27.4#

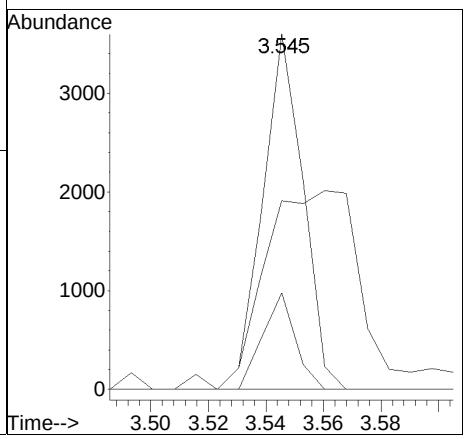


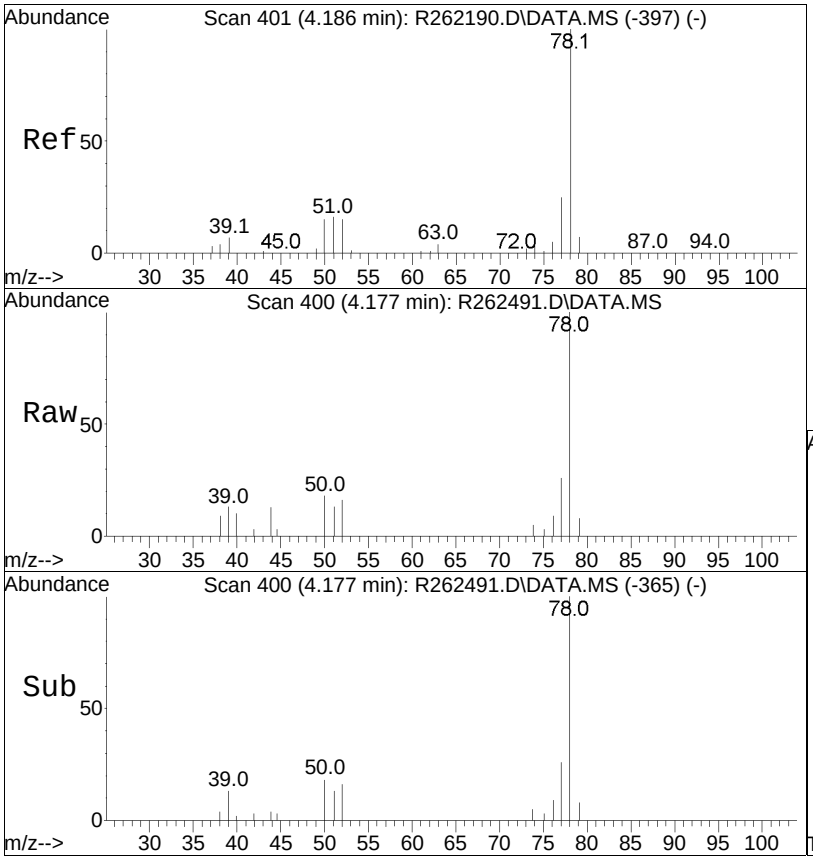


#44
hexane
Concen: 0.23 ppbV
RT: 3.545 min Scan# 326
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 57 Resp: 3527

Ion	Ratio	Lower	Upper
57	100		
43	53.1	161.1	241.7#
86	27.2	16.2	24.4#

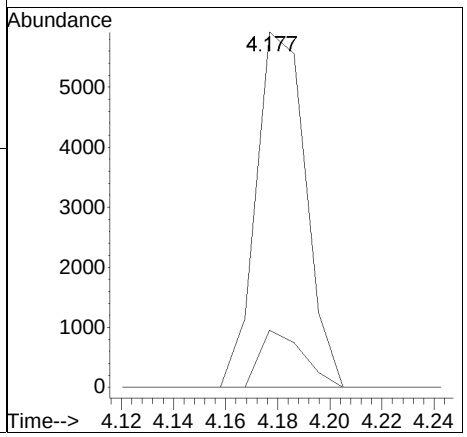


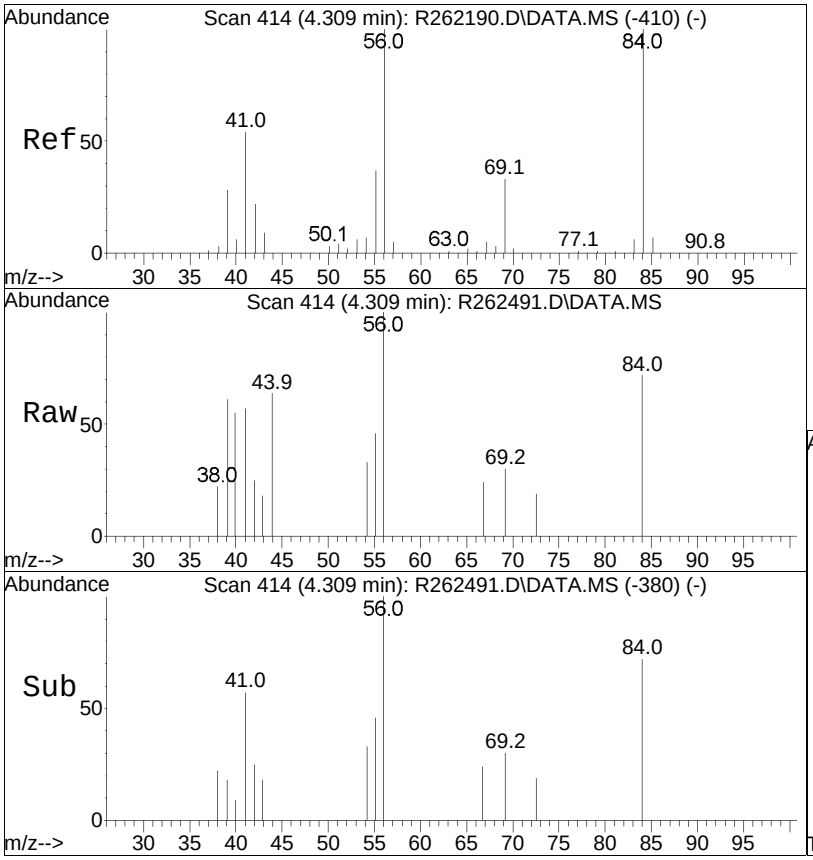


#50
benzene
Concen: 0.21 ppbV
RT: 4.177 min Scan# 400
Delta R.T. -0.010 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 78 Resp: 7840

Ion	Ratio	Lower	Upper
78	100		
52	16.1	10.8	16.2

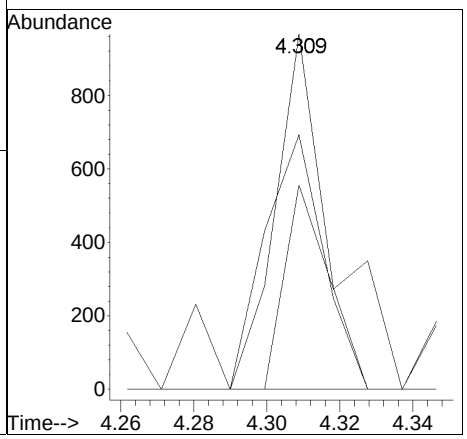


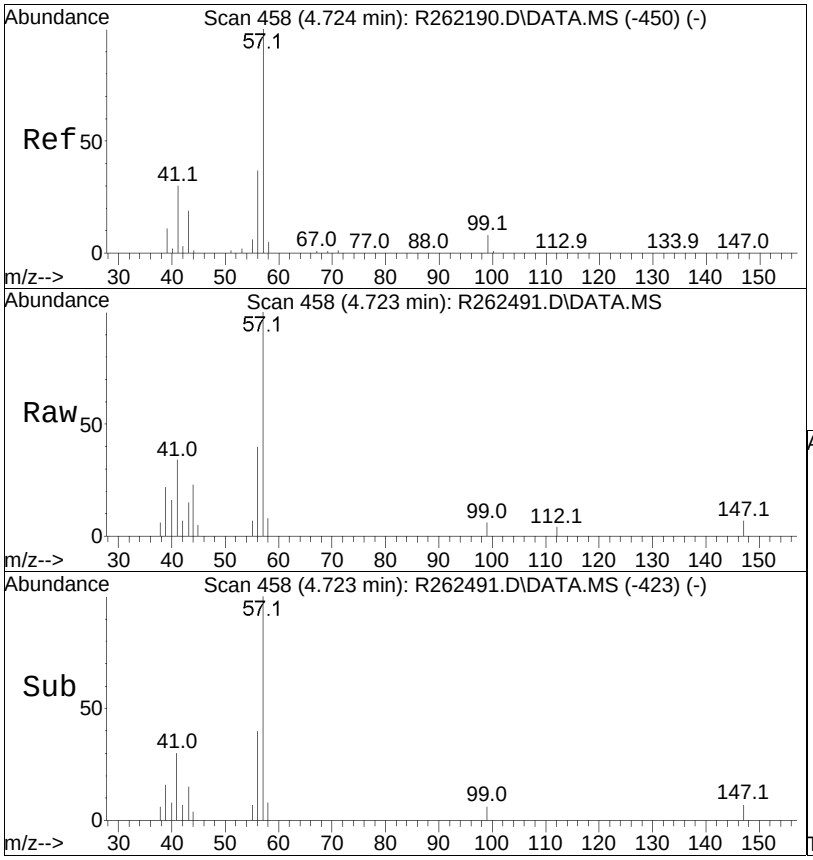


#53
cyclohexane
Concen: 0.06 ppbV
RT: 4.309 min Scan# 414
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 56 Resp: 862

Ion	Ratio	Lower	Upper
56	100		
84	71.7	75.0	112.4#
41	57.5	43.1	64.7

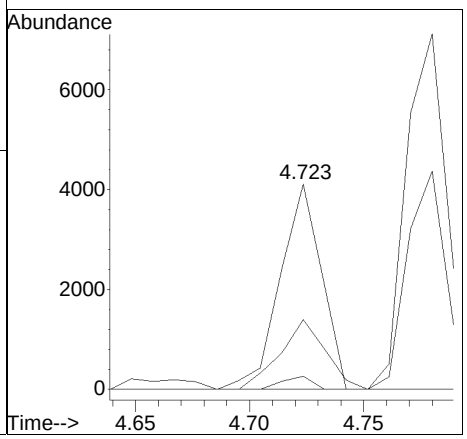


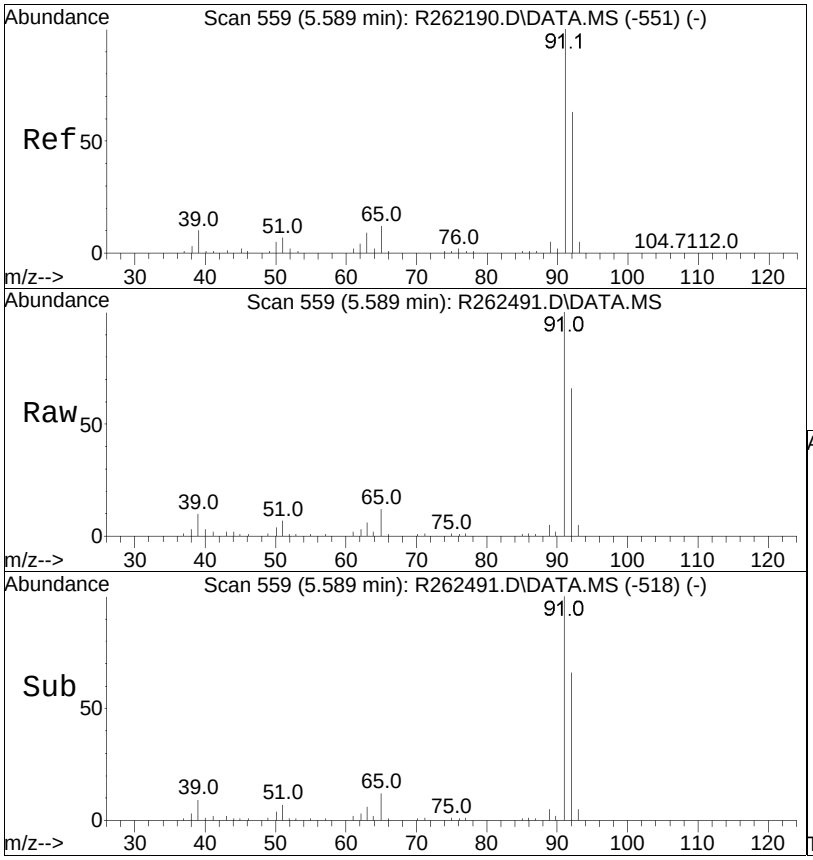


#60
2,2,4-trimethylpentane
Concen: 0.11 ppbV
RT: 4.723 min Scan# 458
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 57 Resp: 5199

Ion	Ratio	Lower	Upper
57	100		
99	6.4	5.8	8.6
41	34.0	21.1	31.7#

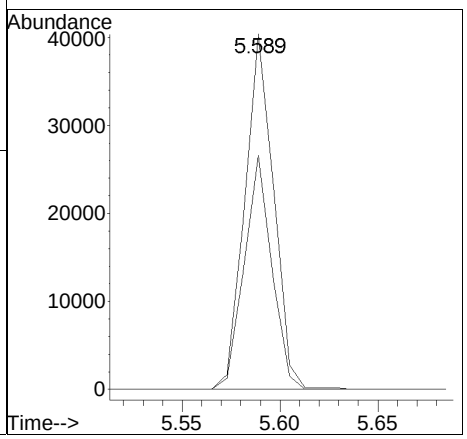


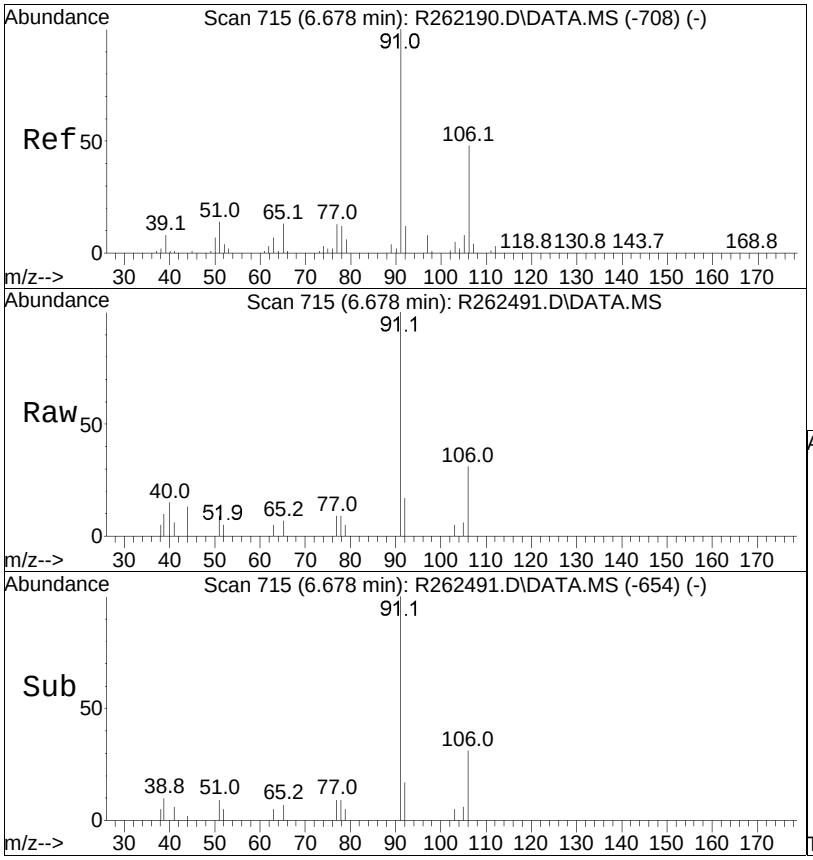


#68
toluene
Concen: 0.86 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 91 Resp: 41415

Ion	Ratio	Lower	Upper
91	100		
92	65.9	46.4	69.6

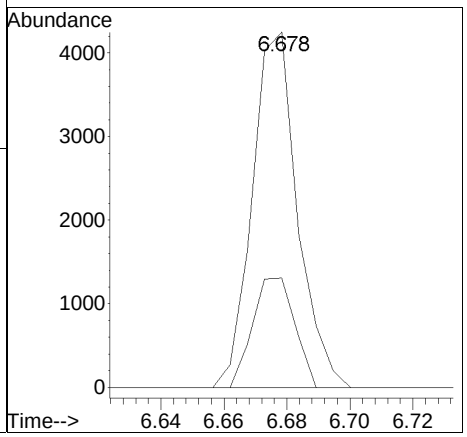


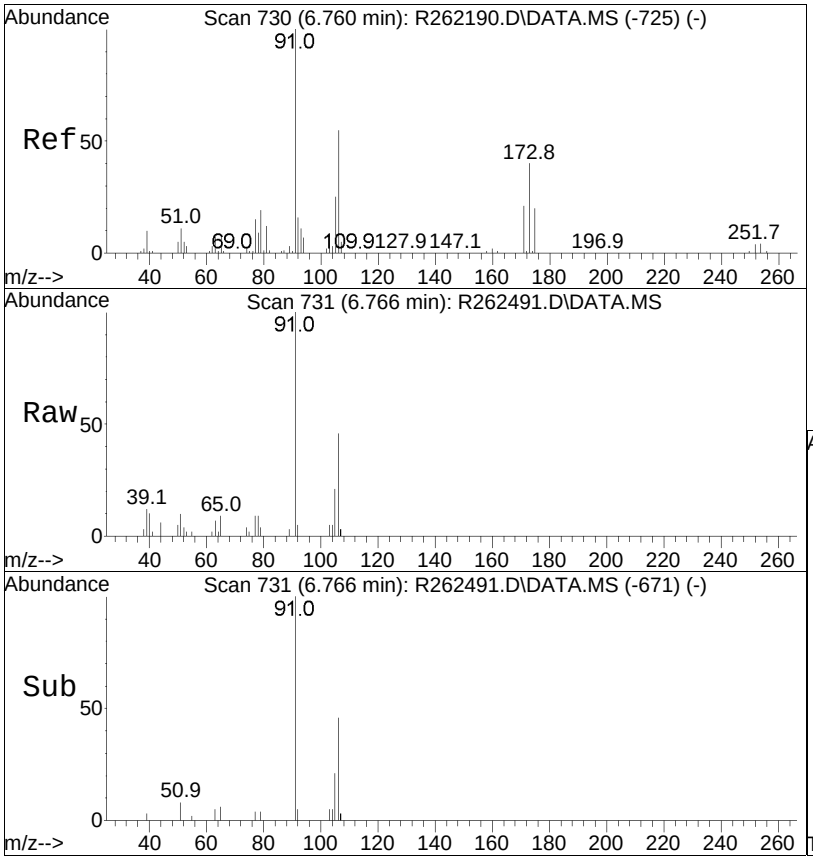


#81
ethylbenzene
Concen: 0.07 ppbV
RT: 6.678 min Scan# 715
Delta R.T. 0.005 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 91 Resp: 4233

Ion	Ratio	Lower	Upper
91	100		
106	30.8	25.3	37.9

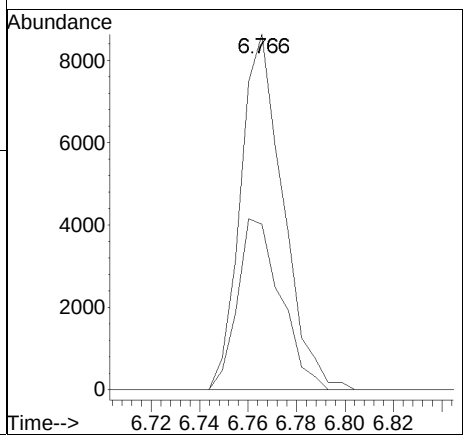


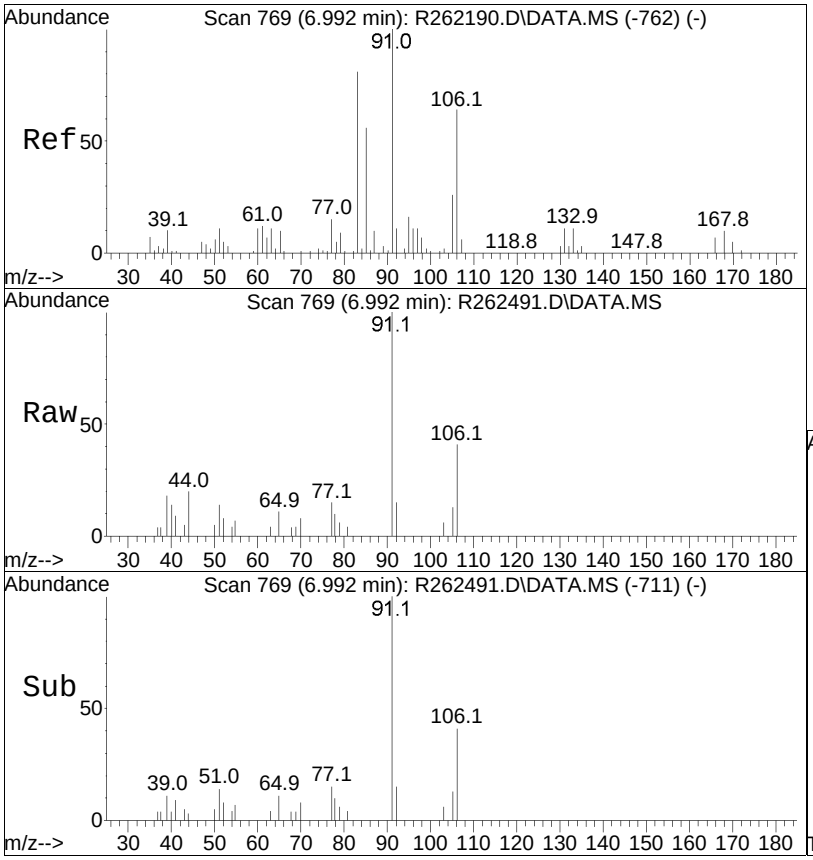


#83
m+p-xylene
Concen: 0.22 ppbV
RT: 6.766 min Scan# 731
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 91 Resp: 10511

Ion	Ratio	Lower	Upper
91	100		
106	46.5	38.6	57.8

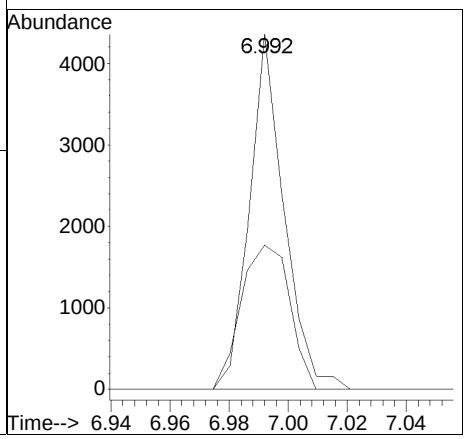




#87
o-xylene
Concen: 0.07 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.005 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion: 91 Resp: 3561

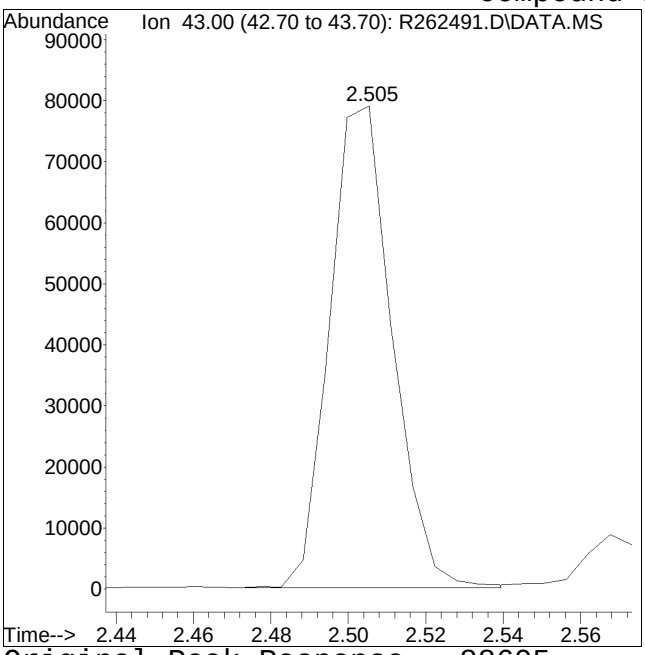
Ion	Ratio	Lower	Upper
91	100		
106	40.6	39.2	58.8



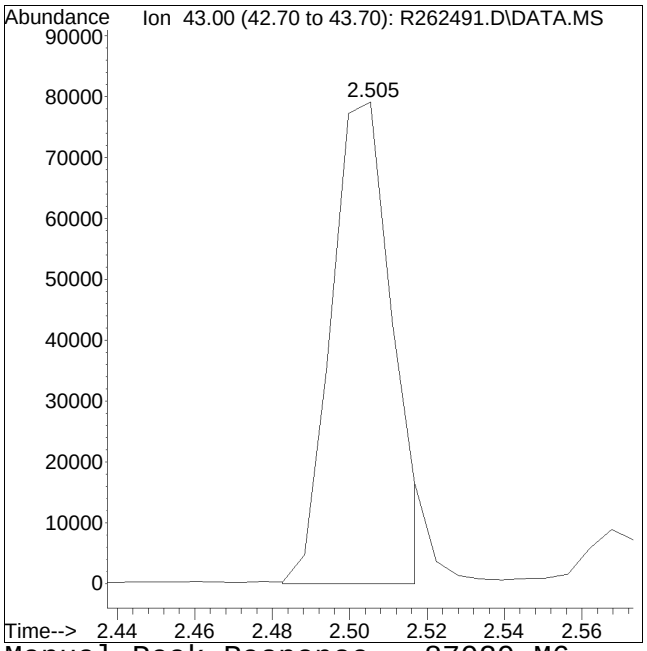
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262491.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 8:04 pm Instrument : Airlab26
Sample : L2514968-01,3,250,250 Quant Date : 3/28/2025 6:46 am

Compound #19: acetone



Original Peak Response = 88605



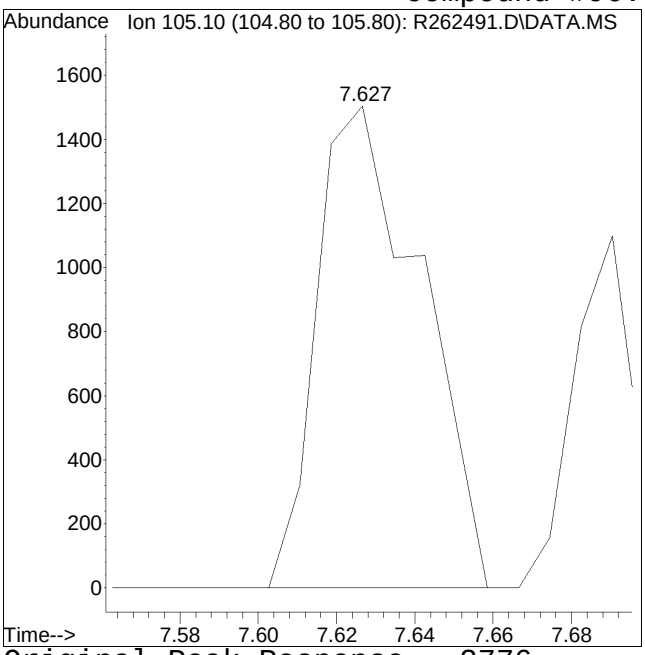
Manual Peak Response = 87020 M6

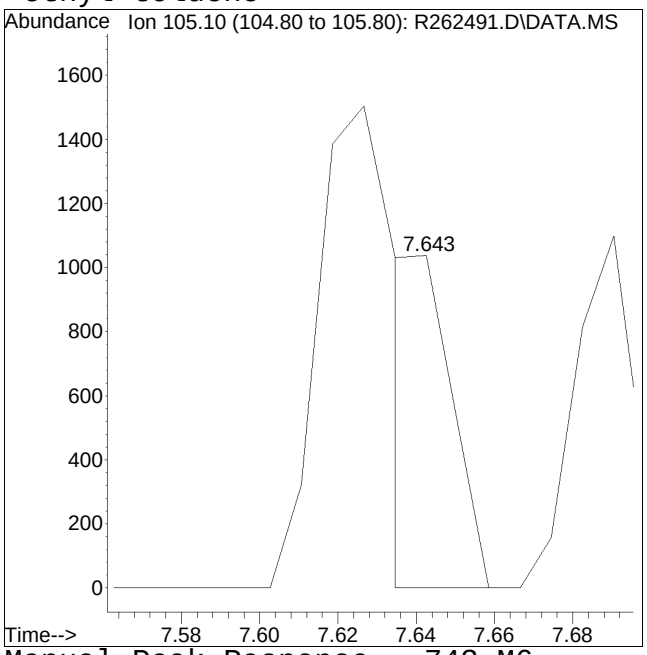
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262491.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 8:04 pm Instrument : Airlab26
Sample : L2514968-01,3,250,250 Quant Date : 3/28/2025 6:46 am

Compound #96: 4-ethyl toluene





Original Peak Response = 2776 Manual Peak Response = 743 M6
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262492.D
Acq On : 27 Mar 2025 08:37 pm
Operator : AIRLAB26:TPH
Sample : L2514968-02,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 06:46:51 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.508	49	175956	10.000	ppbV		0.00
Standard Area = 175168			Recovery = 100.45%				
43) 1,4-difluorobenzene	4.365	114	591233	10.000	ppbV		0.00
Standard Area = 612528			Recovery = 96.52%				
67) chlorobenzene-D5	6.449	54	96951	10.000	ppbV		0.00
Standard Area = 94640			Recovery = 102.44%				
System Monitoring Compounds							
Target Compounds							Qvalue
5) dichlorodifluoromethane	2.019	85	16859	0.541	ppbV		94
6) chloromethane	2.068	50	7013	0.646	ppbV		96
7) Freon-114	2.101		0	N.D.			
10) 1,3-butadiene	0.000		0	N.D.	d		
13) bromomethane	2.266		0	N.D.			
14) chloroethane	2.321		0	N.D.			
15) ethanol	2.354	31	188633	23.695	ppbV		93
17) vinyl bromide	0.000		0	N.D.			
19) acetone	2.500	43	1388460	66.327	ppbV	#	100
21) trichlorofluoromethane	2.551	101	11994	0.219	ppbV		97
22) isopropyl alcohol	2.568	45	198285	7.912	ppbV		99
27) tertiary butyl alcohol	2.736	59	584535	13.150	ppbV		98
28) methylene chloride	2.760	49	6175	0.270	ppbV		98
29) 3-chloropropene	0.000		0	N.D.	d		
30) carbon disulfide	0.000		0	N.D.	d		
31) Freon 113	2.841	101	3445	0.075	ppbV	#	82
32) trans-1,2-dichloroethene	3.058	61	950	0.034	ppbV		86
33) 1,1-dichloroethane	3.129		0	N.D.			
34) MTBE	3.146		0	N.D.			
36) 2-butanone	3.279	43	1894443	97.437	ppbV		99
38) Ethyl Acetate	3.561	61	604	0.150	ppbV	#	1
39) chloroform	3.561	83	18329	0.622	ppbV		98
40) Tetrahydrofuran	3.732	42	91233	9.795	ppbV		95
42) 1,2-dichloroethane	3.876		0	N.D.			
44) hexane	3.546	57	6357	0.409	ppbV	#	30
50) benzene	4.177	78	27329	0.695	ppbV		97
53) cyclohexane	4.309	56	13311	0.852	ppbV		95
56) 1,2-dichloropropane	0.000		0	N.D.			

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262492.D
Acq On : 27 Mar 2025 08:37 pm
Operator : AIRLAB26:TPH
Sample : L2514968-02,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 06:46:51 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

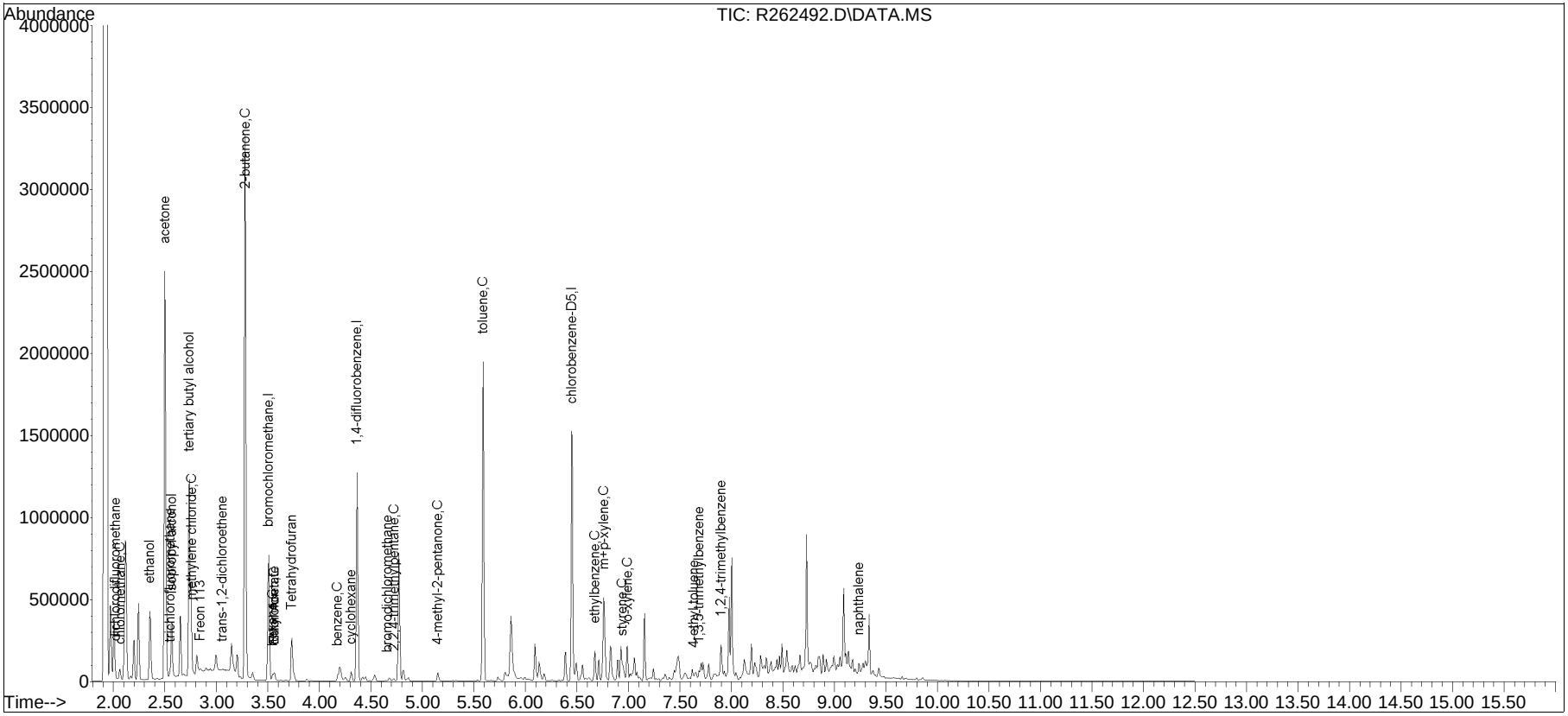
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	4.658	83	2057	0.078	ppbV #	79
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.724	57	7259	0.149	ppbV #	89
62) heptane	0.000		0	N.D.	d	
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.150	43	10778	0.507	ppbV	96
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	5.453		0	N.D.		
68) toluene	5.589	91	808957	15.733	ppbV	99
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	5.892		0	N.D.		
80) chlorobenzene	0.000		0	N.D.	d	
81) ethylbenzene	6.673	91	67217	1.039	ppbV	97
83) m+p-xylene	6.760	91	211029	4.063	ppbV	96
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	15850	0.415	ppbV	97
86) 1,1,2,2-tetrachloroethane	6.987		0	N.D.		
87) o-xylene	6.992	91	60315	1.157	ppbV	99
96) 4-ethyl toluene	7.635	105	9719M6	0.157	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	13200	0.226	ppbV	99
99) 1,2,4-trimethylbenzene	7.898	105	59194	0.956	ppbV #	68
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	8.002		0	N.D.		
103) 1,4-dichlorobenzene	8.002		0	N.D.		
107) 1,2-dichlorobenzene	8.178		0	N.D.		
115) 1,2,4-trichlorobenzene	9.189		0	N.D.		
116) naphthalene	9.236	128	11753	0.132	ppbV	96
119) hexachlorobutadiene	0.000		0	N.D.		

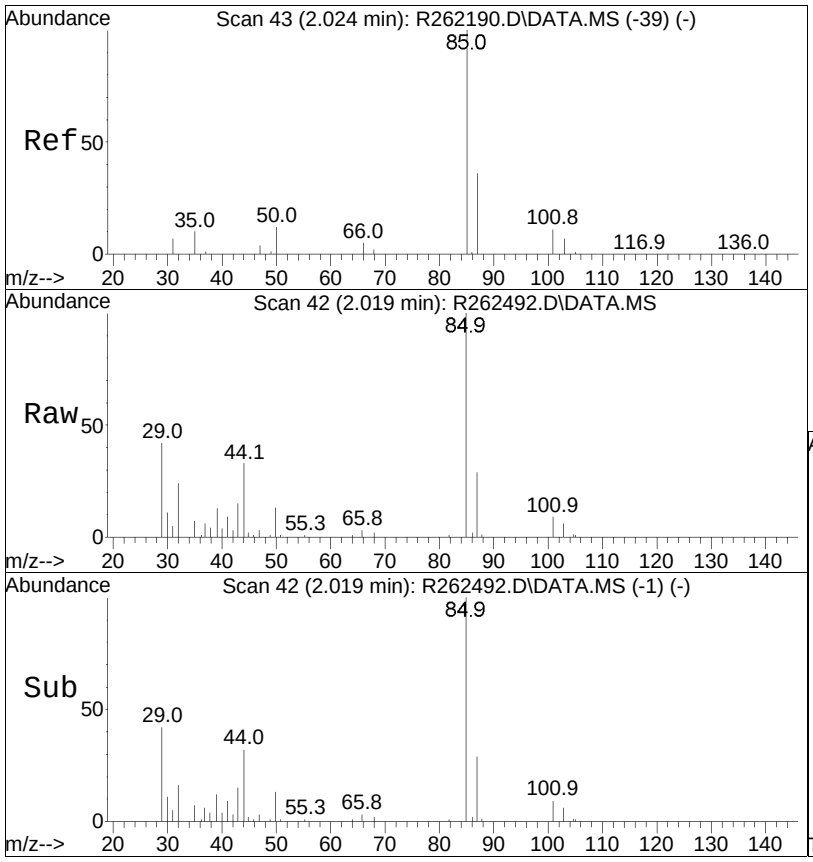
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262492.D
Acq On : 27 Mar 2025 08:37 pm
Operator : AIRLAB26:TPH
Sample : L2514968-02,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 06:46:51 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

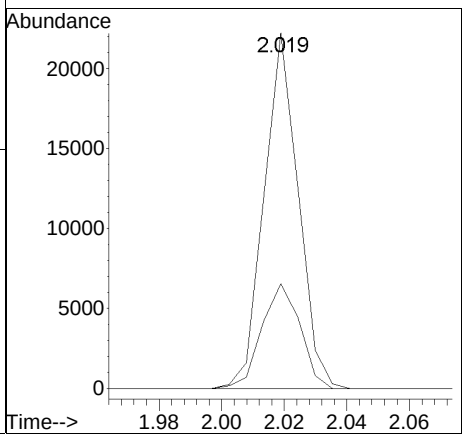


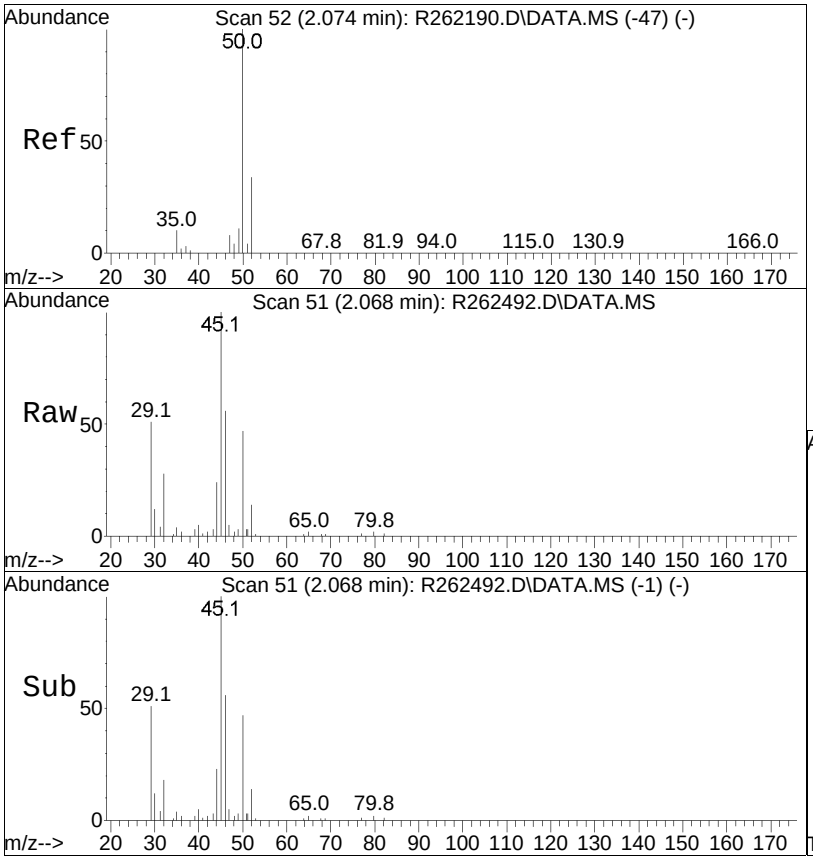


#5
dichlorodifluoromethane
Concen: 0.54 ppbV
RT: 2.019 min Scan# 42
Delta R.T. -0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 85 Resp: 16859

Ion	Ratio	Lower	Upper
85	100		
87	29.5	26.4	39.6

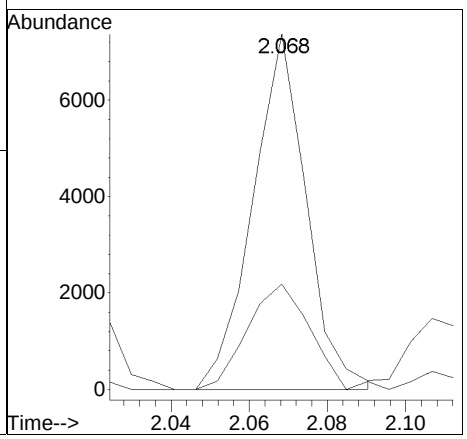


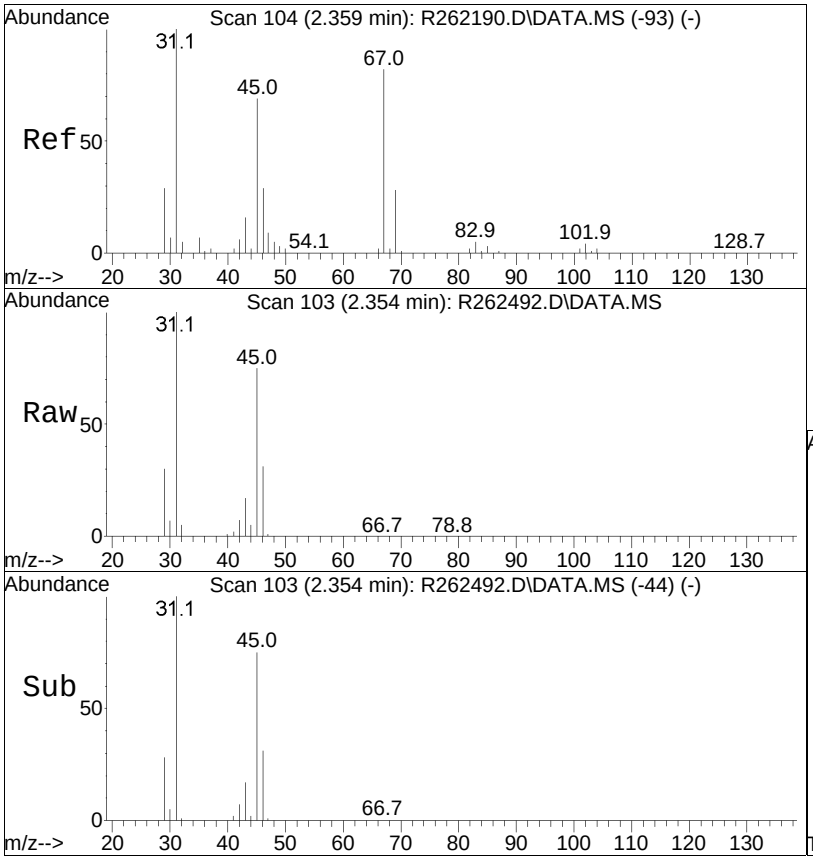


#6
chloromethane
Concen: 0.65 ppbV
RT: 2.068 min Scan# 51
Delta R.T. -0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 50 Resp: 7013

Ion	Ratio	Lower	Upper
50	100		
52	29.6	25.6	38.4

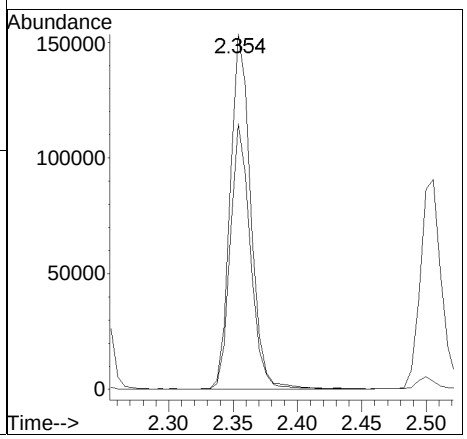


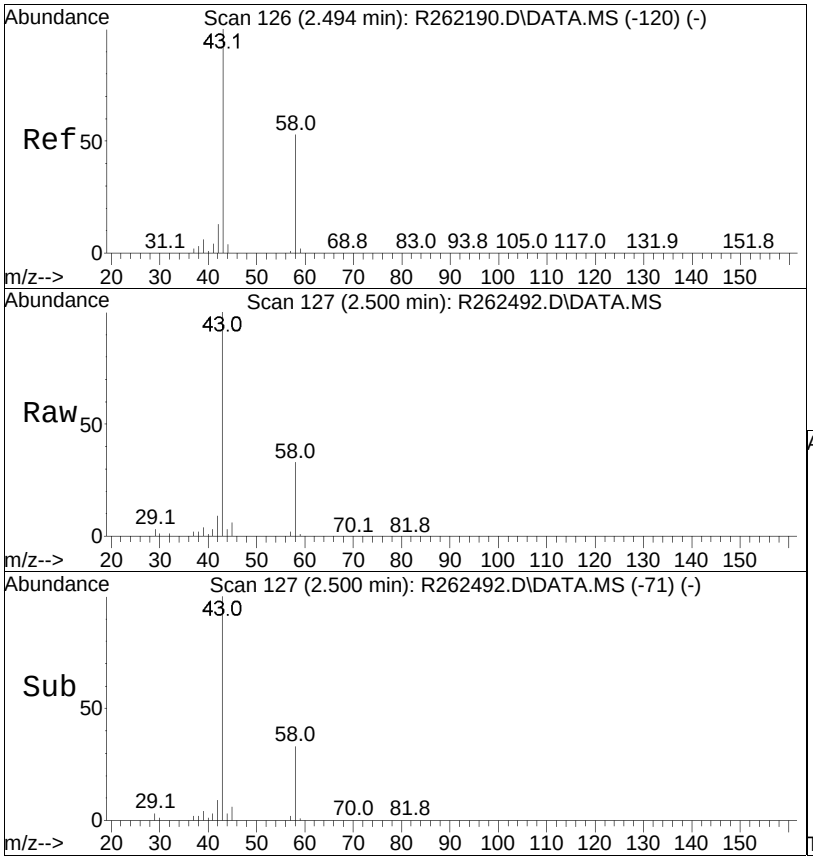


#15
ethanol
Concen: 23.70 ppbV
RT: 2.354 min Scan# 103
Delta R.T. -0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 31 Resp: 188633

Ion	Ratio	Lower	Upper
31	100		
45	74.8	55.4	83.2

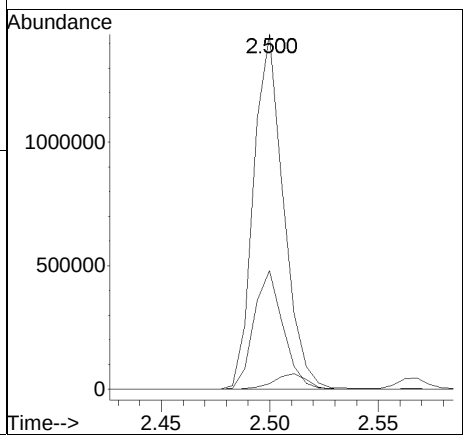


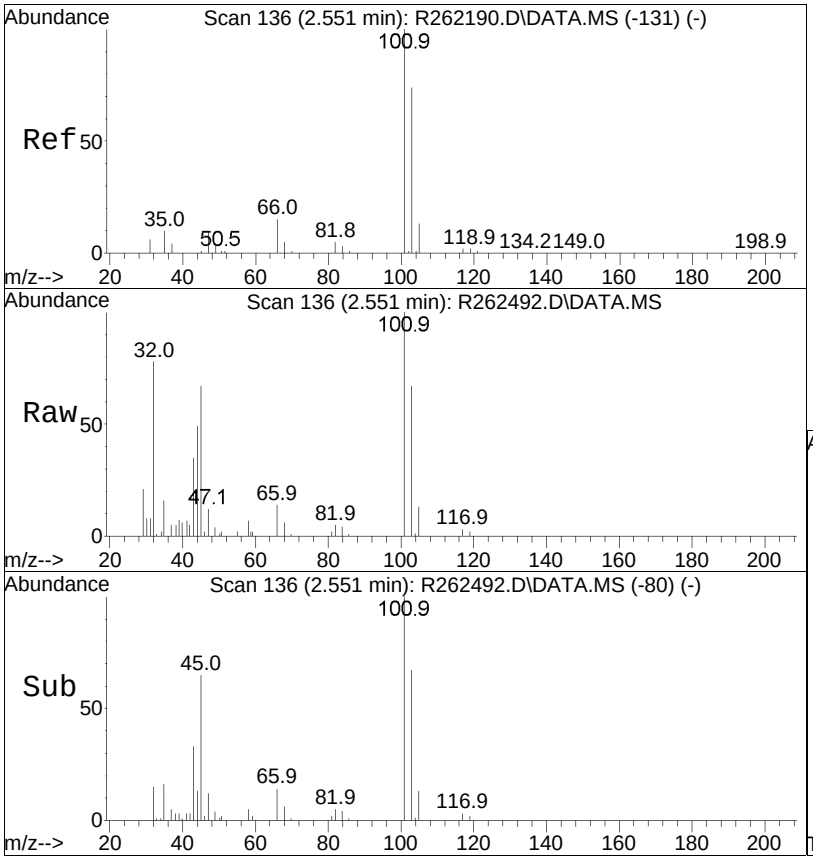


#19
acetone
Concen: 66.33 ppbV
RT: 2.500 min Scan# 127
Delta R.T. -0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 43 Resp: 1388460

Ion	Ratio	Lower	Upper
43	100		
58	33.4	26.7	40.1
57	1.6	0.7	1.1#

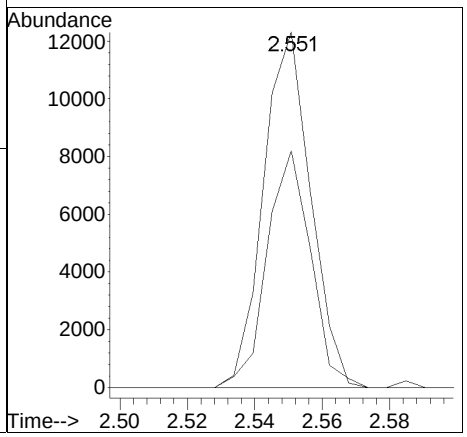


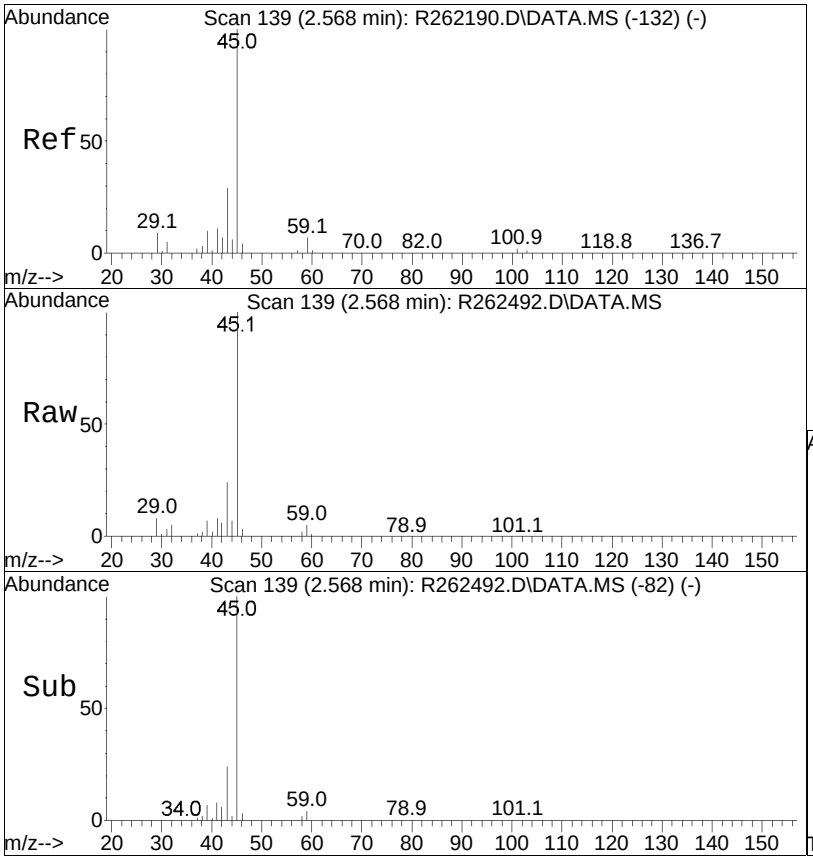


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 2.551 min Scan# 136
Delta R.T. -0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:101 Resp: 11994

Ion	Ratio	Lower	Upper
101	100		
103	66.6	51.7	77.5

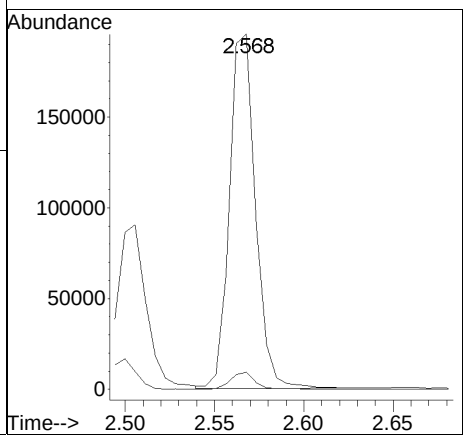


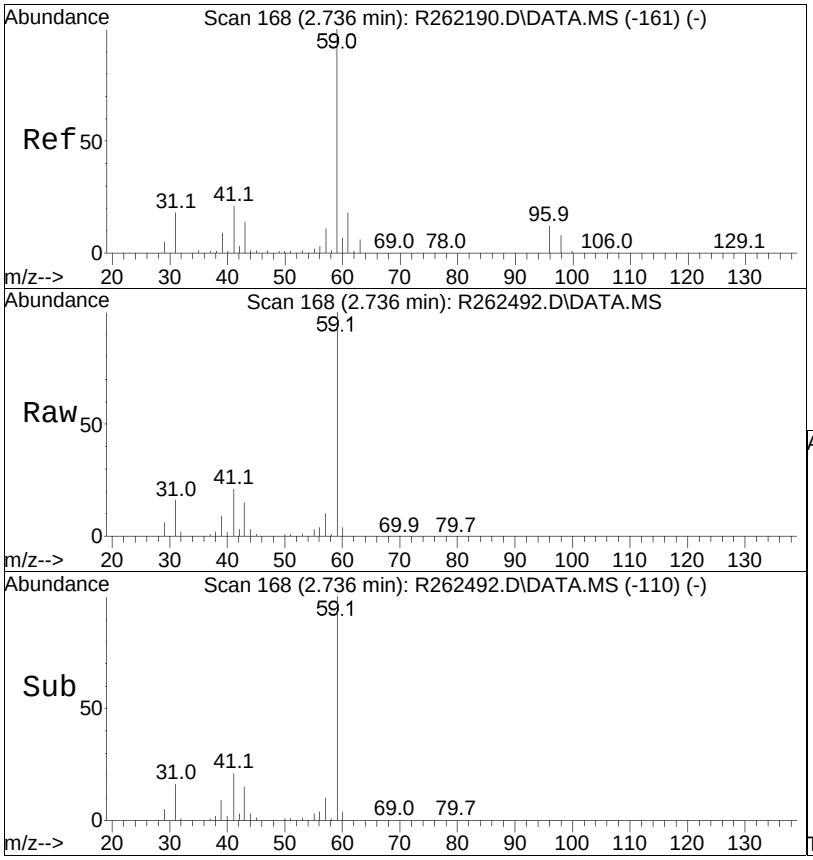


#22
isopropyl alcohol
Concen: 7.91 ppbV
RT: 2.568 min Scan# 139
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 45 Resp: 198285

Ion	Ratio	Lower	Upper
45	100		
59	4.9	3.5	5.3

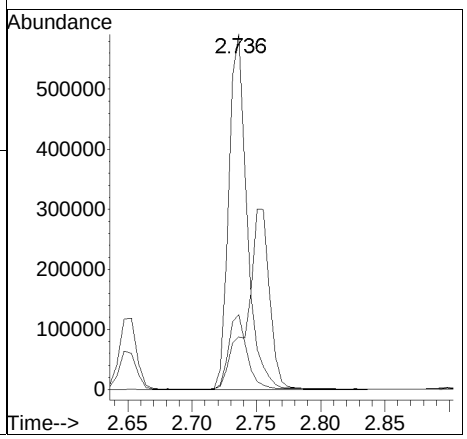


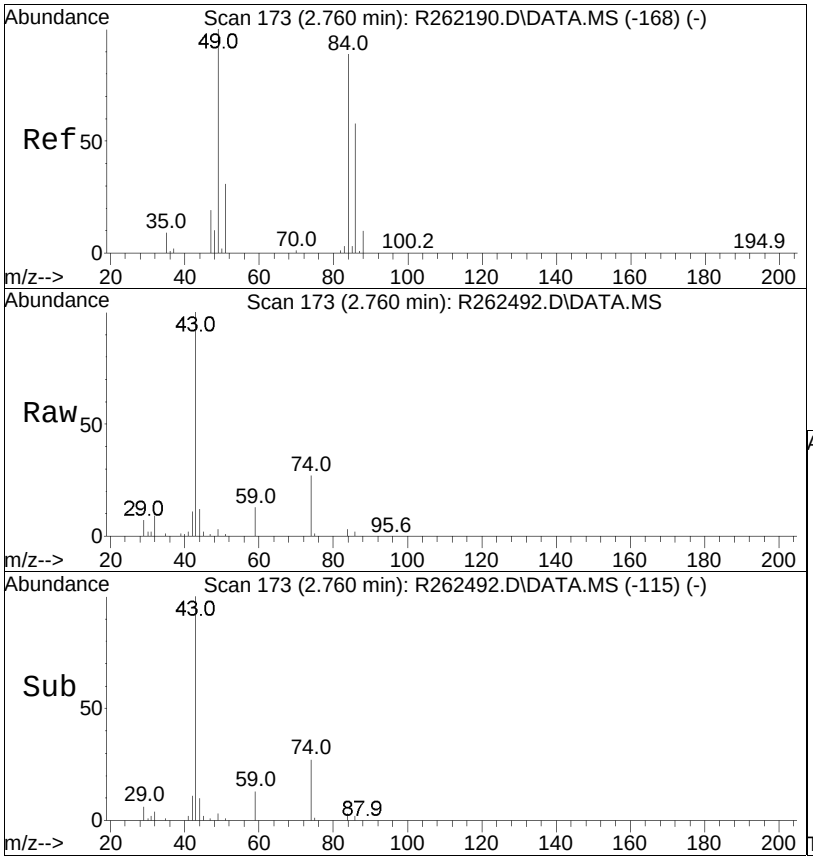


#27
tertiary butyl alcohol
Concen: 13.15 ppbV
RT: 2.736 min Scan# 168
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 59 Resp: 584535

Ion	Ratio	Lower	Upper
59	100		
41	21.1	16.5	24.7
43	14.8	10.8	16.2

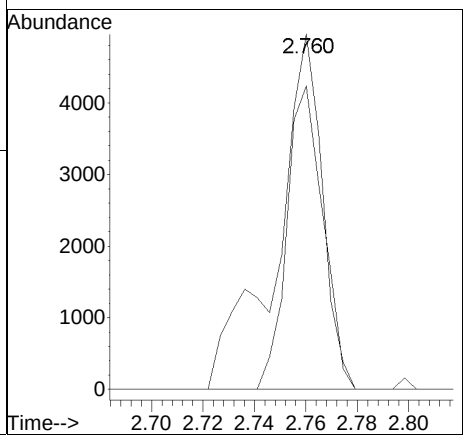


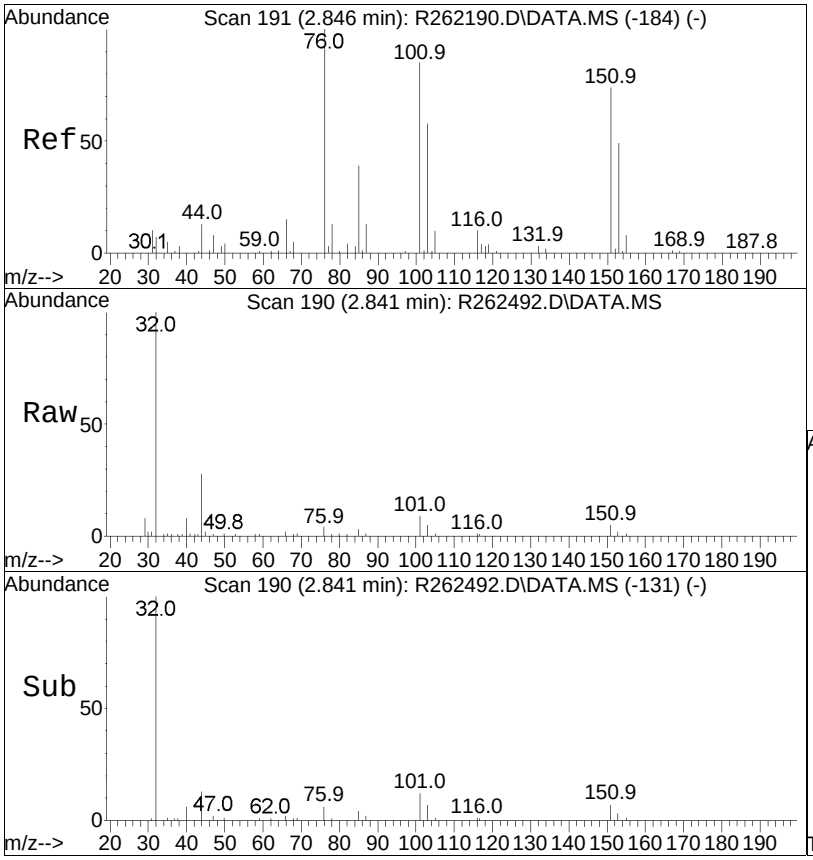


#28
methylene chloride
Concen: 0.27 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 49 Resp: 6175

Ion	Ratio	Lower	Upper
49	100		
84	85.4	67.1	100.7

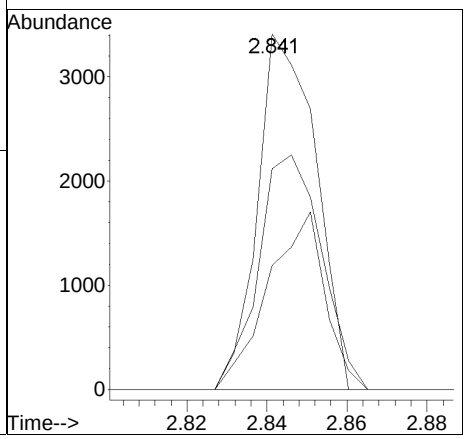


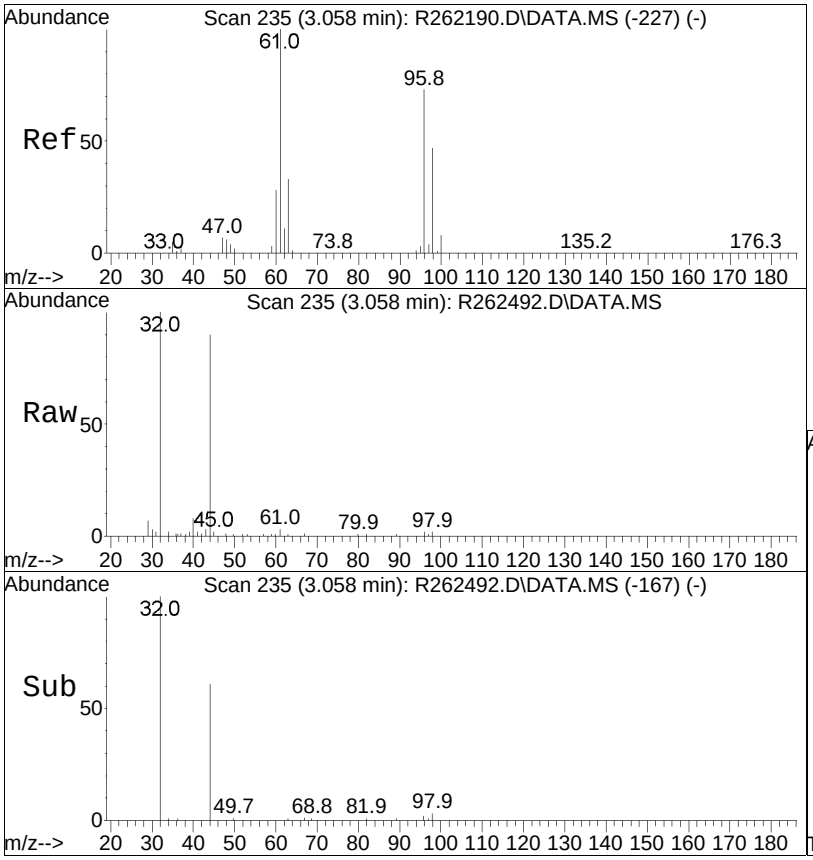


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.841 min Scan# 190
Delta R.T. -0.010 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:101 Resp: 3445

Ion	Ratio	Lower	Upper
101	100		
85	34.9	34.0	51.0
151	62.1	64.4	96.6#

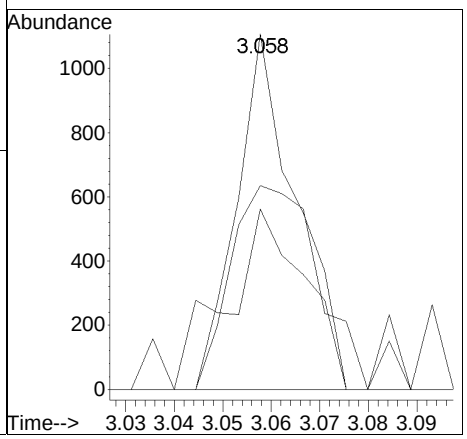


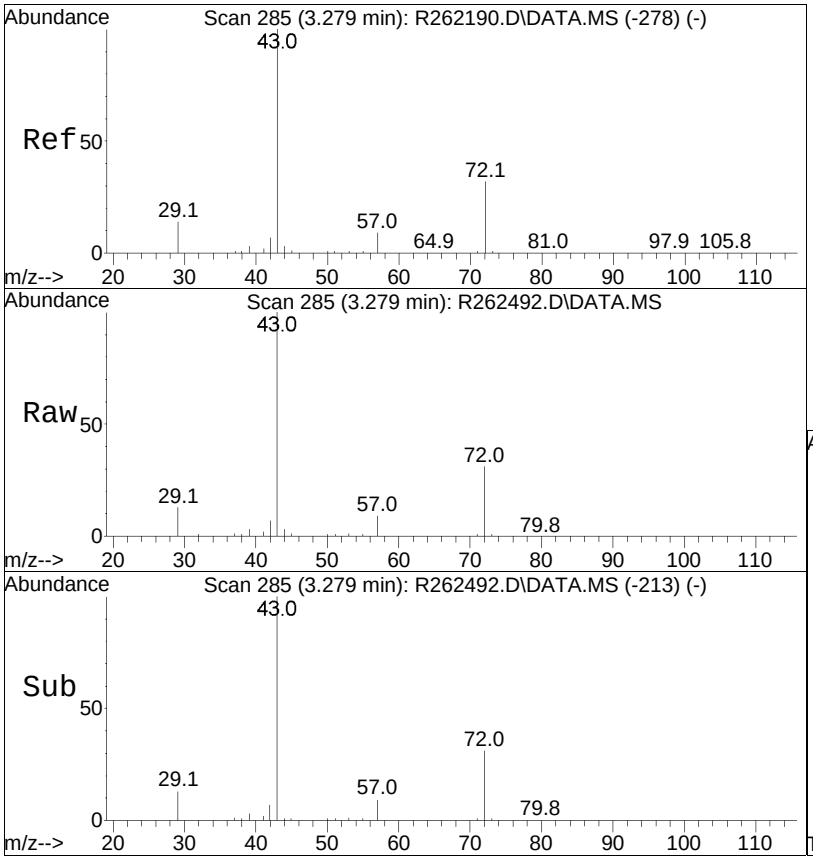


#32
trans-1,2-dichloroethene
Concen: 0.03 ppbV
RT: 3.058 min Scan# 235
Delta R.T. -0.004 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 61 Resp: 950

Ion	Ratio	Lower	Upper
61	100		
96	57.4	57.2	85.8
98	50.8	36.0	54.0

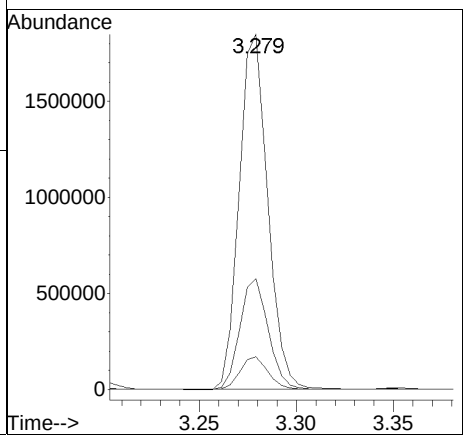


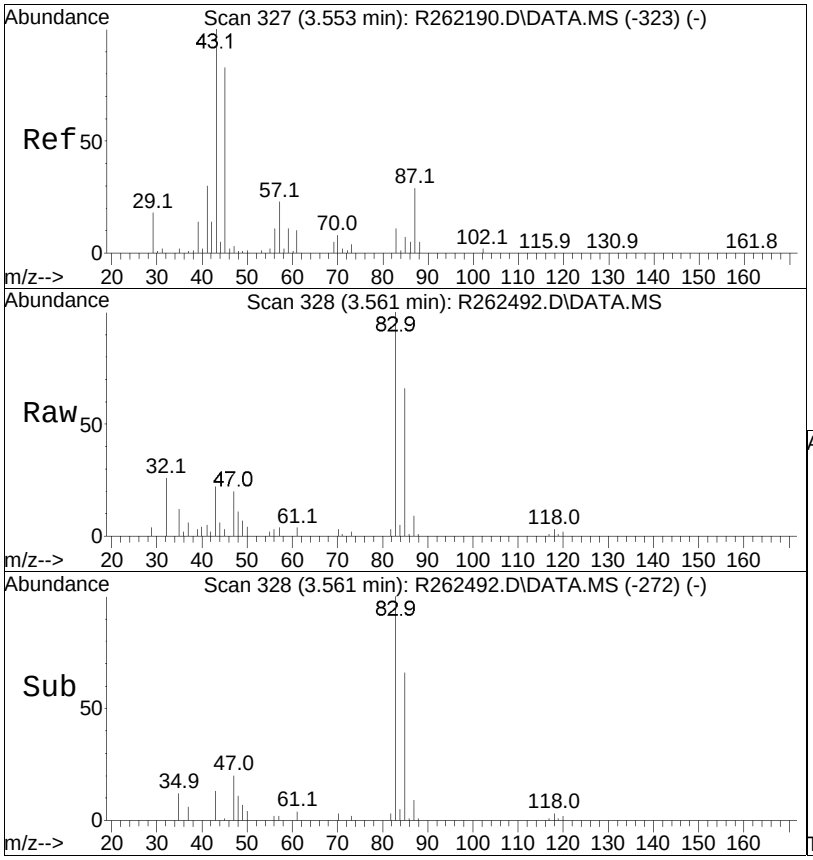


#36
2-butanone
Concen: 97.44 ppbV
RT: 3.279 min Scan# 285
Delta R.T. -0.004 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 43 Resp: 1894443

Ion	Ratio	Lower	Upper
43	100		
72	31.2	24.5	36.7
57	9.2	7.0	10.6

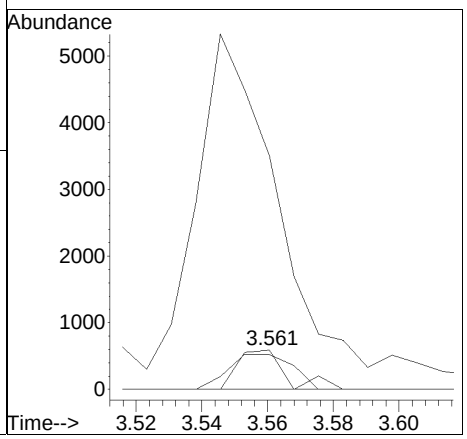


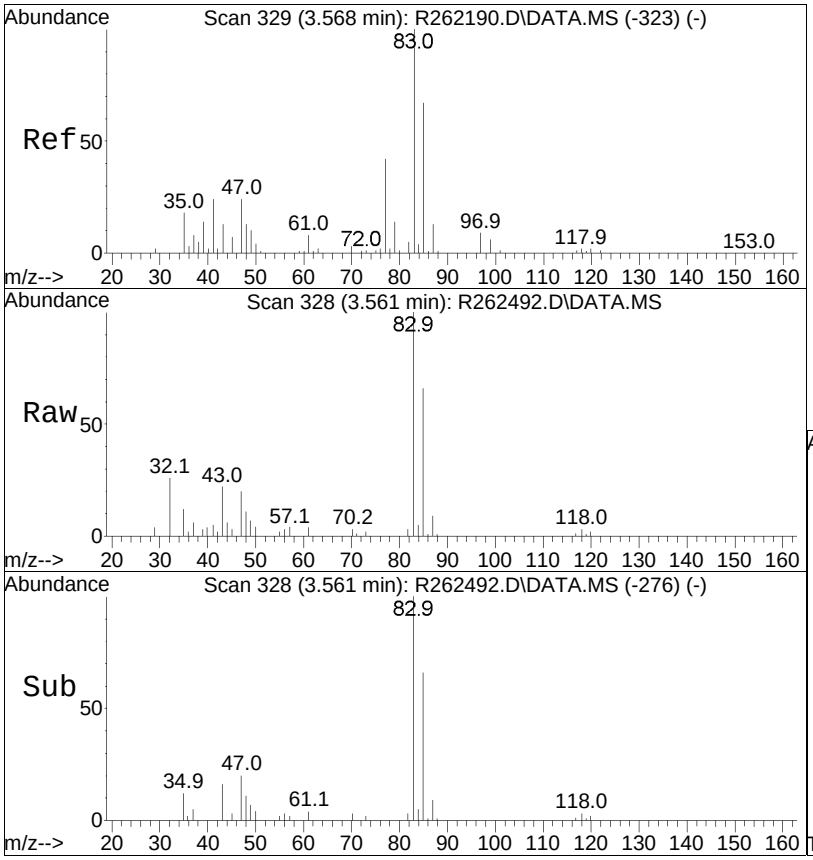


#38
Ethyl Acetate
Concen: 0.15 ppbV
RT: 3.561 min Scan# 328
Delta R.T. 0.007 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 61 Resp: 604

Ion	Ratio	Lower	Upper
61	100		
70	88.6	65.2	97.8
43	594.7	1134.1	1701.1#

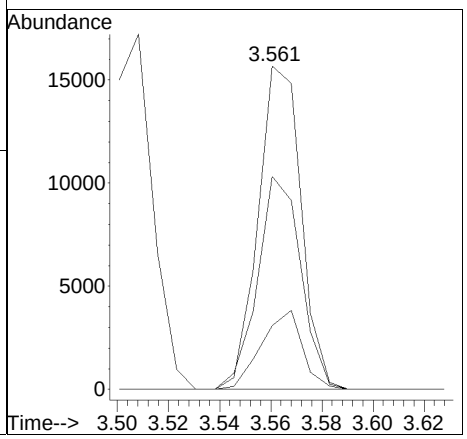


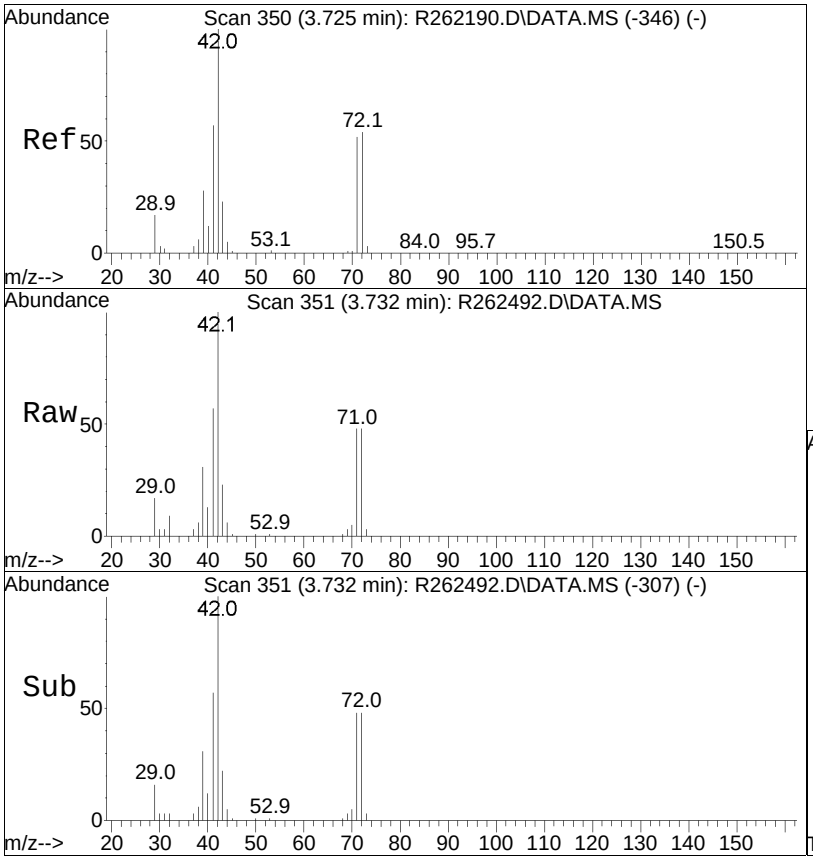


#39
chloroform
Concen: 0.62 ppbV
RT: 3.561 min Scan# 328
Delta R.T. -0.007 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 83 Resp: 18329

Ion	Ratio	Lower	Upper
83	100		
85	65.9	53.0	79.4
47	19.7	18.2	27.4

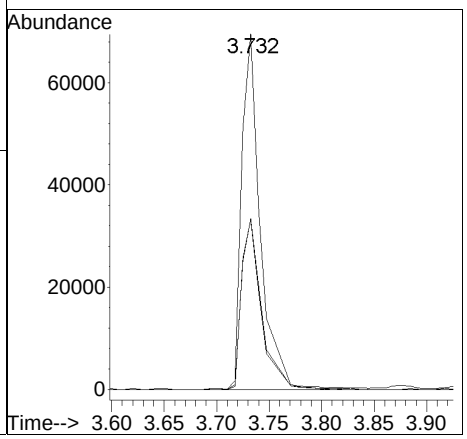


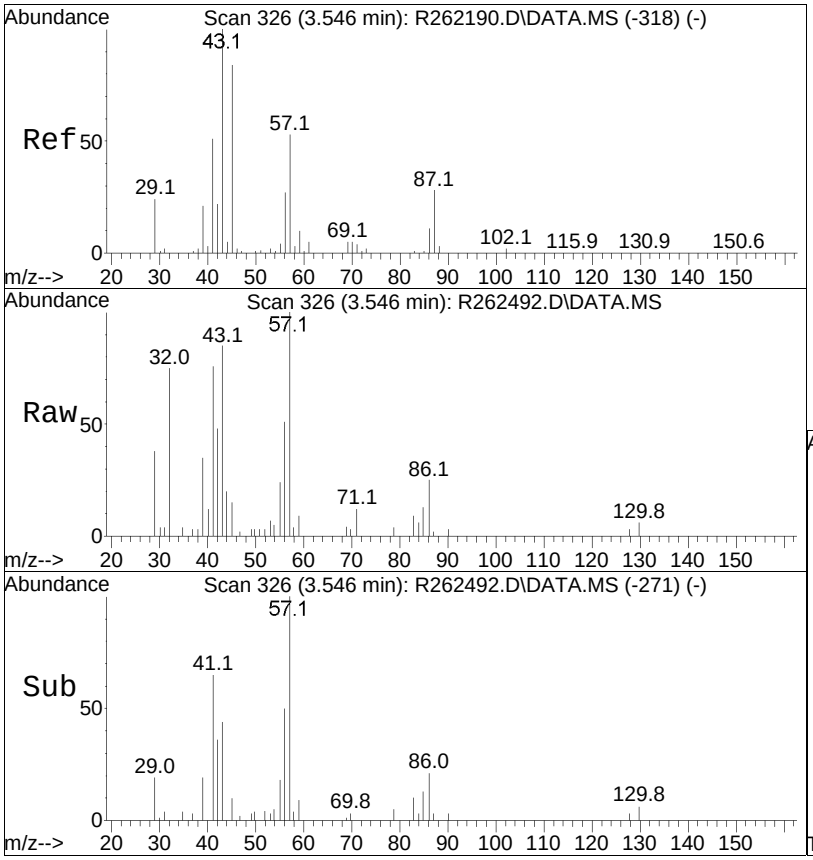


#40
Tetrahydrofuran
Concen: 9.80 ppbV
RT: 3.732 min Scan# 351
Delta R.T. 0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 42 Resp: 91233

Ion	Ratio	Lower	Upper
42	100		
71	47.8	38.2	57.4
72	48.0	43.9	65.9

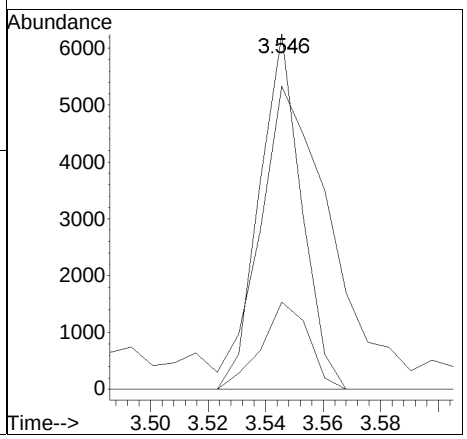


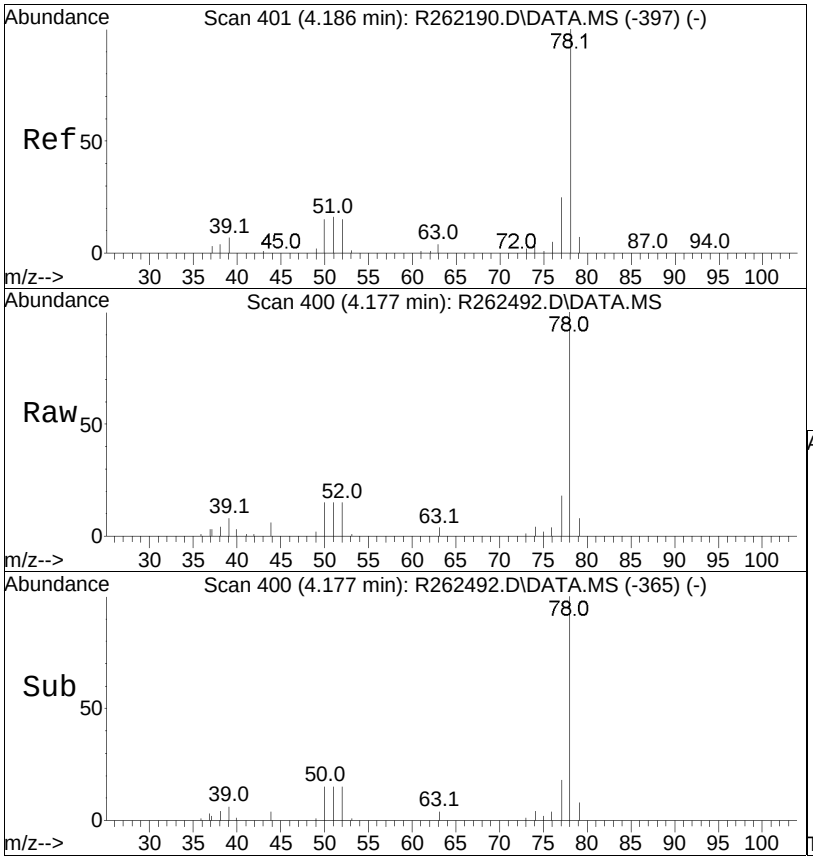


#44
hexane
Concen: 0.41 ppbV
RT: 3.546 min Scan# 326
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 57 Resp: 6357

Ion	Ratio	Lower	Upper
57	100		
43	85.3	161.1	241.7#
86	24.6	16.2	24.4#

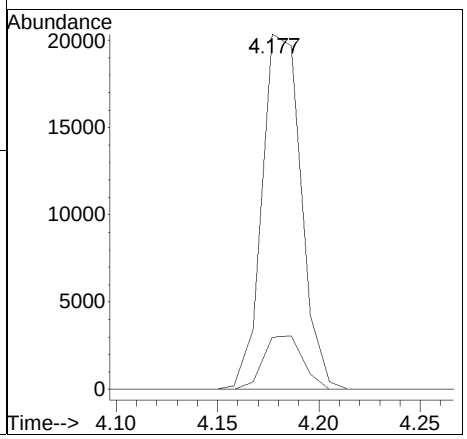


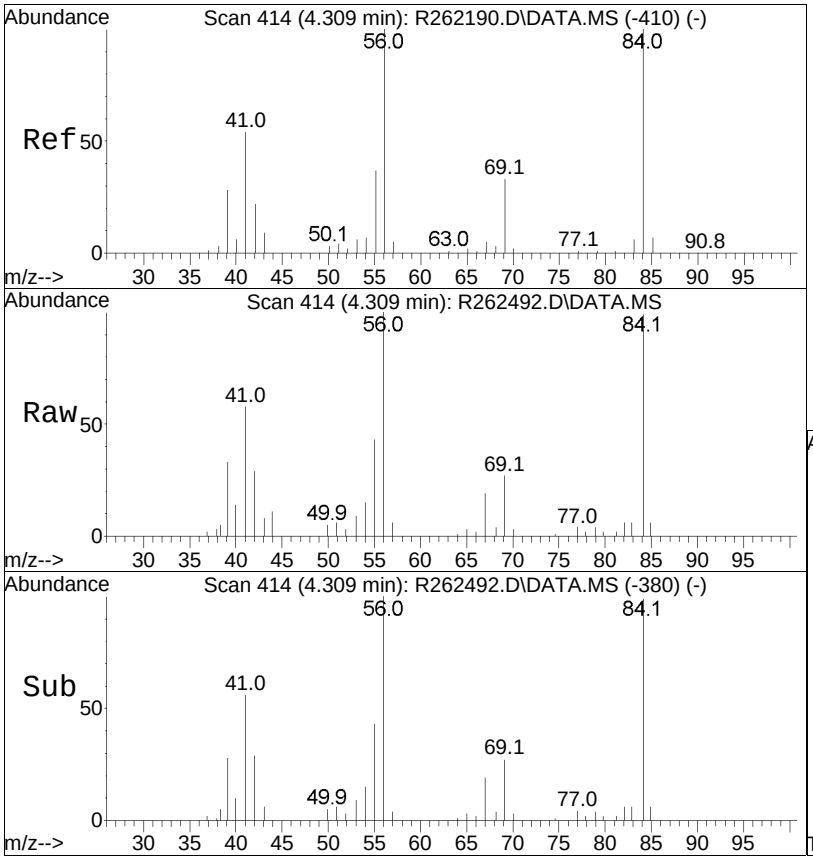


#50
benzene
Concen: 0.70 ppbV
RT: 4.177 min Scan# 400
Delta R.T. -0.009 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 78 Resp: 27329

Ion	Ratio	Lower	Upper
78	100		
52	14.7	10.8	16.2

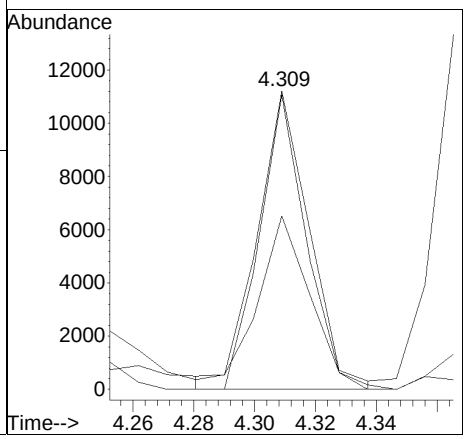


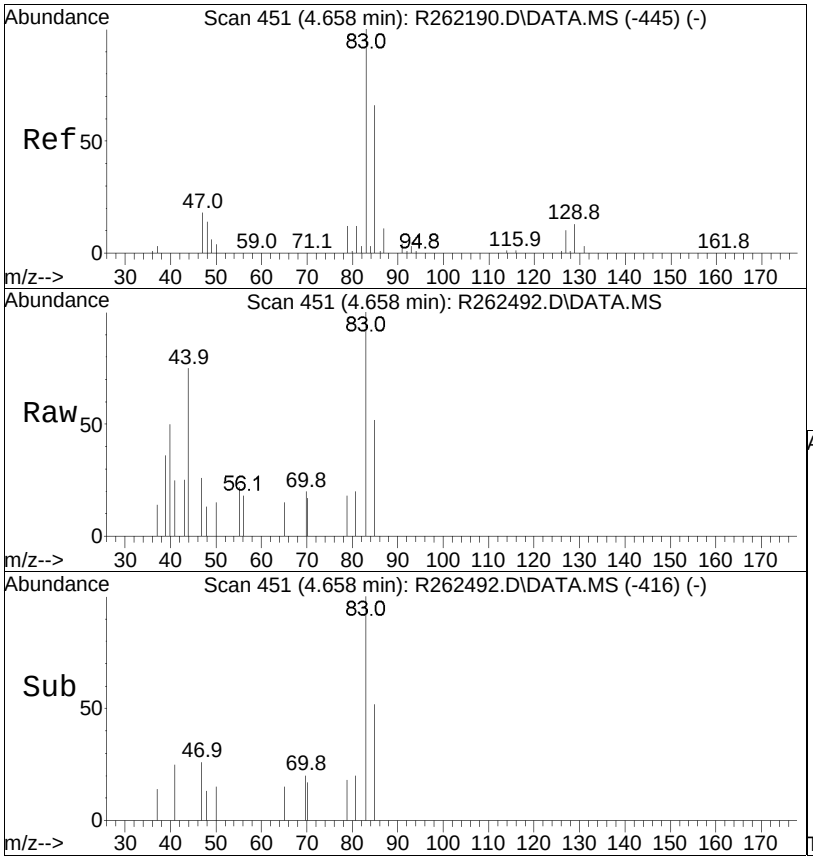


#53
cyclohexane
Concen: 0.85 ppbV
RT: 4.309 min Scan# 414
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 56 Resp: 13311

Ion	Ratio	Lower	Upper
56	100		
84	98.7	75.0	112.4
41	58.1	43.1	64.7

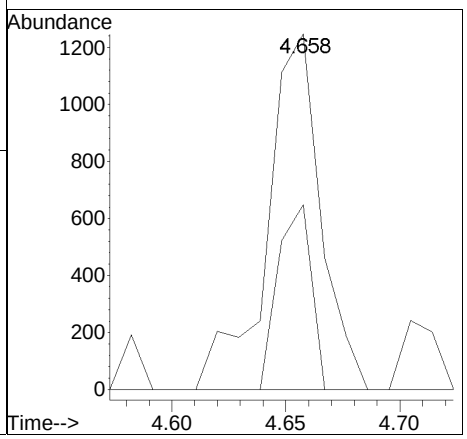


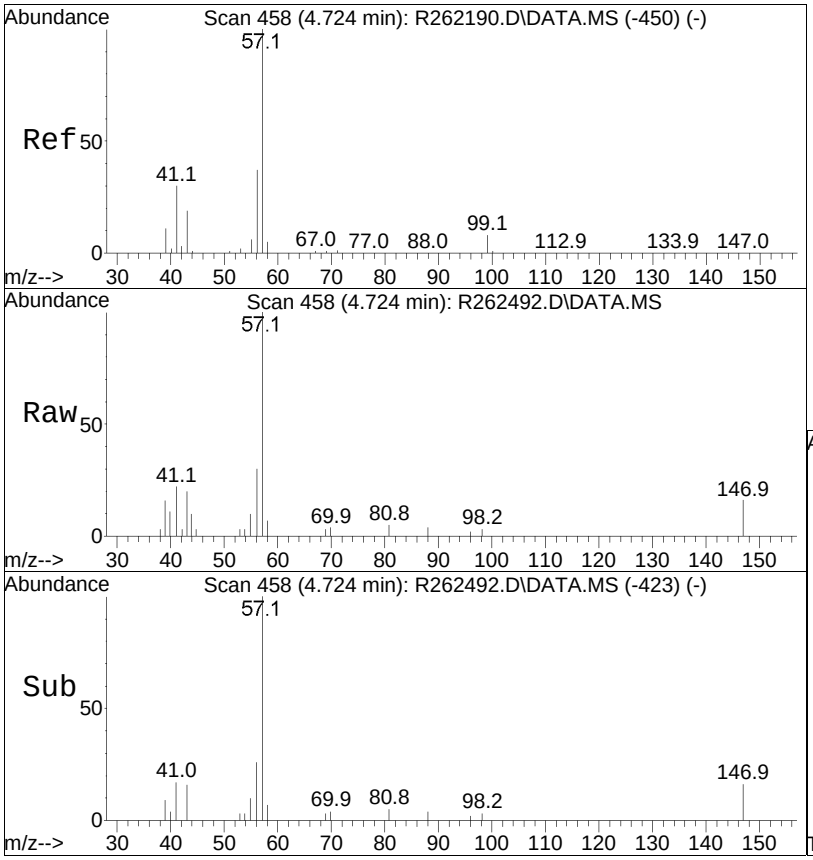


#57
bromodichloromethane
Concen: 0.08 ppbV
RT: 4.658 min Scan# 451
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 83 Resp: 2057

Ion	Ratio	Lower	Upper
83	100		
85	52.0	54.1	81.1#
129	0.0	10.1	15.1#

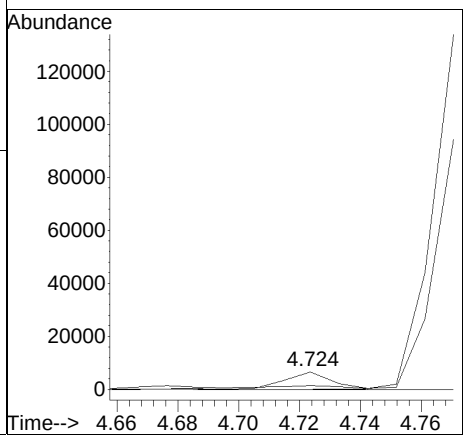


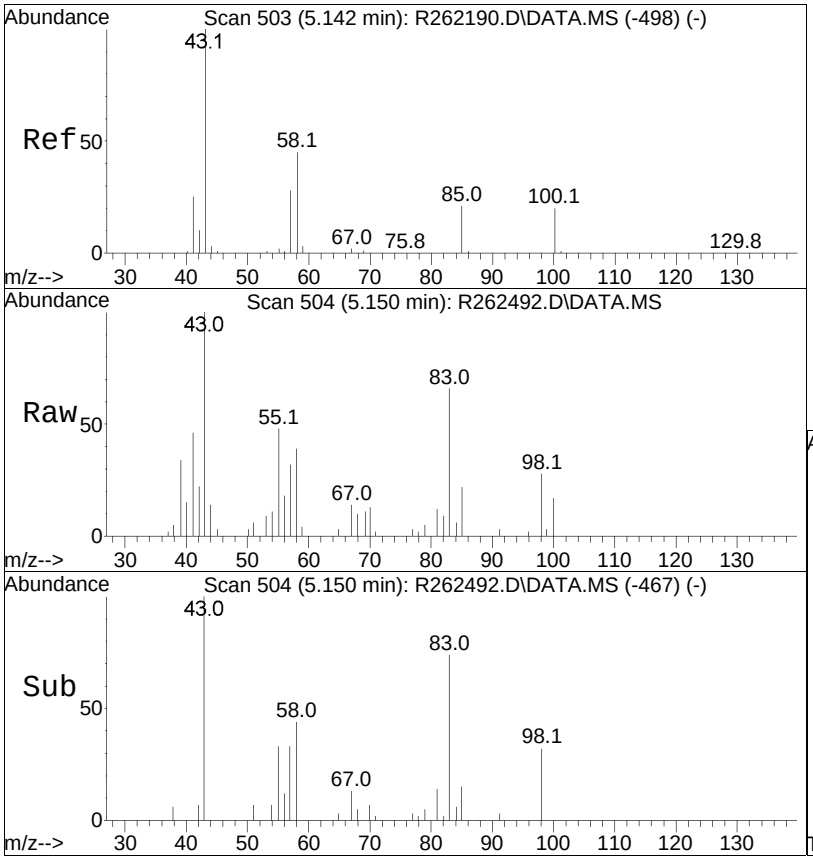


#60
2,2,4-trimethylpentane
Concen: 0.15 ppbV
RT: 4.724 min Scan# 458
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 57 Resp: 7259

Ion	Ratio	Lower	Upper
57	100		
99	0.0	5.8	8.6#
41	22.1	21.1	31.7

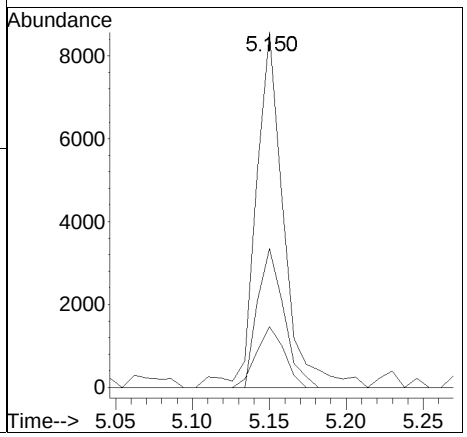


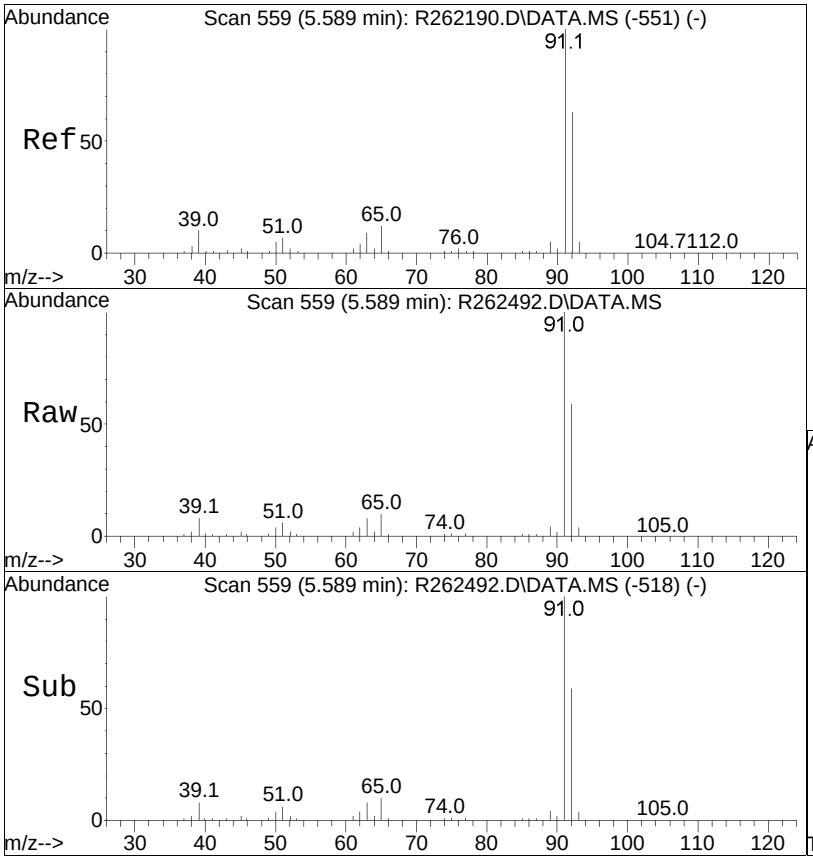


#64
4-methyl-2-pentanone
Concen: 0.51 ppbV
RT: 5.150 min Scan# 504
Delta R.T. 0.008 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 43 Resp: 10778

Ion	Ratio	Lower	Upper
43	100		
58	39.1	34.0	51.0
100	17.1	14.5	21.7

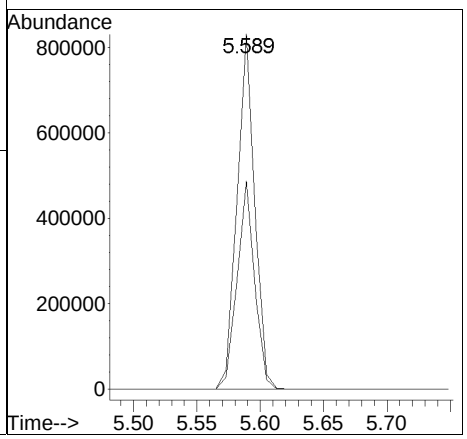


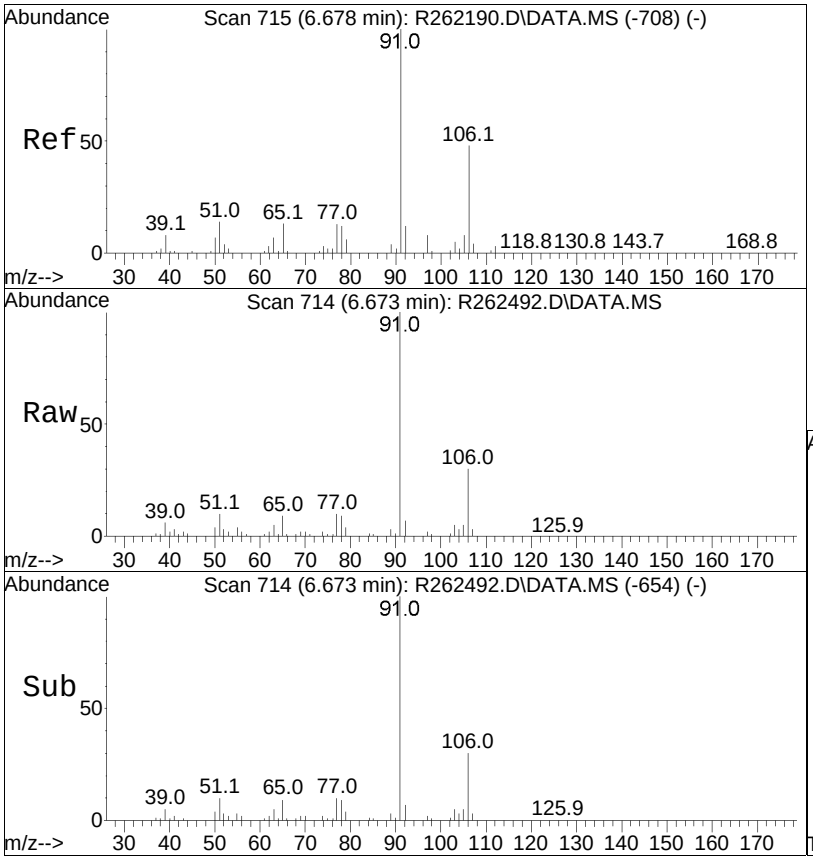


#68
toluene
Concen: 15.73 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 91 Resp: 808957

Ion	Ratio	Lower	Upper
91	100		
92	58.6	46.4	69.6

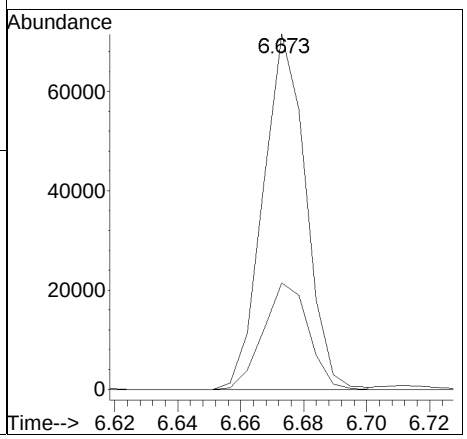


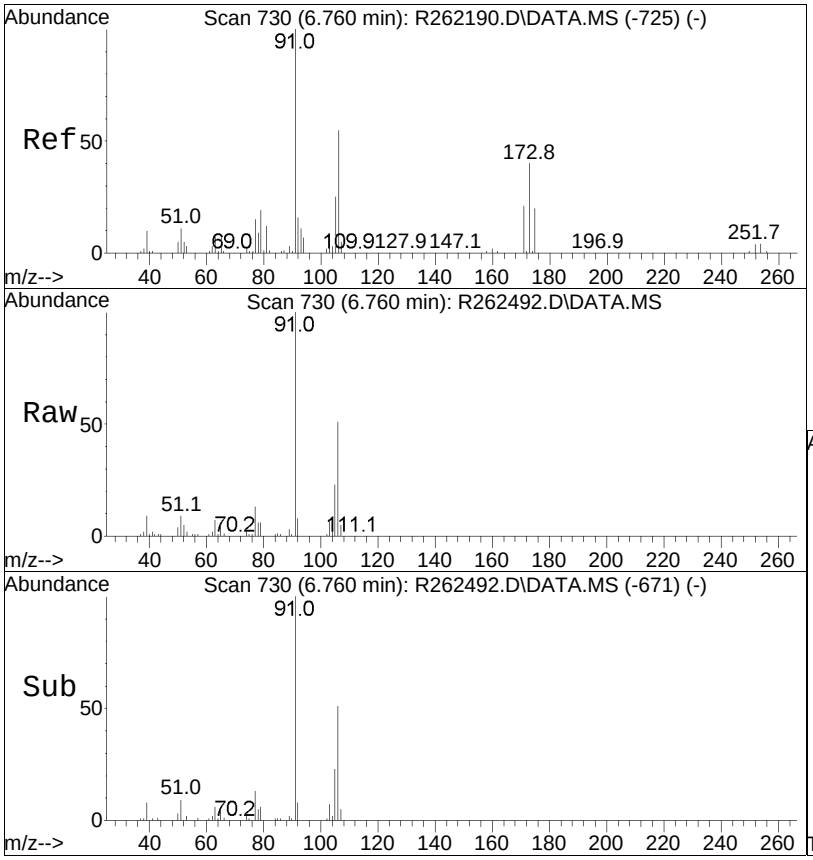


#81
ethylbenzene
Concen: 1.04 ppbV
RT: 6.673 min Scan# 714
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 91 Resp: 67217

Ion	Ratio	Lower	Upper
91	100		
106	29.9	25.3	37.9

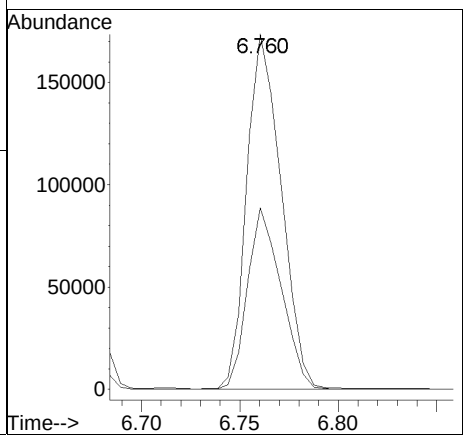


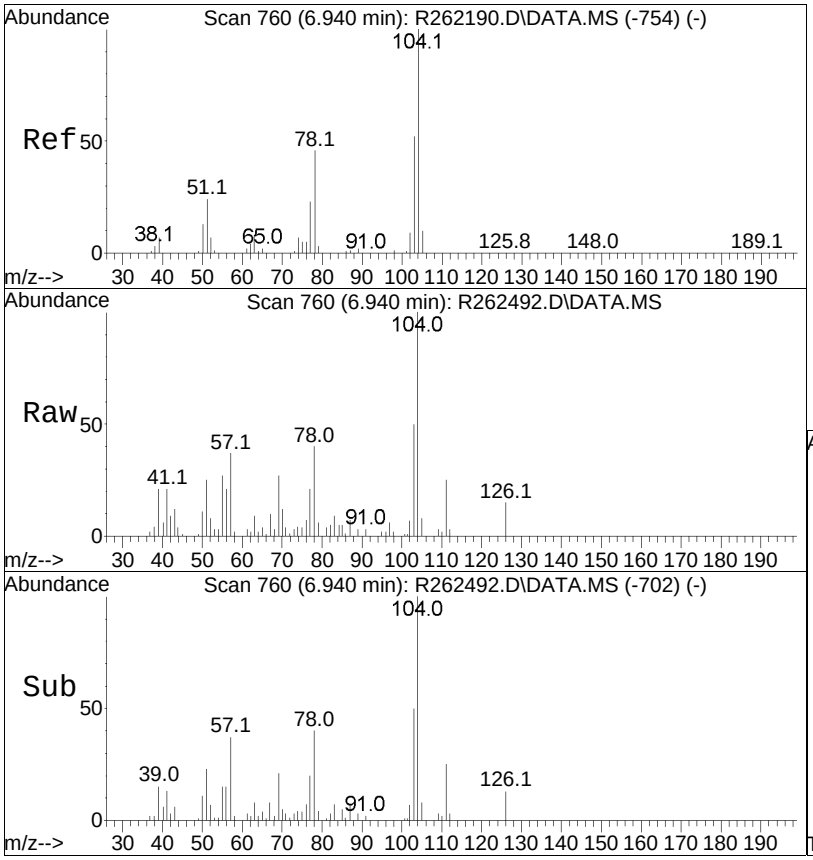


#83
m+p-xylene
Concen: 4.06 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 91 Resp: 211029

Ion	Ratio	Lower	Upper
91	100		
106	51.1	38.6	57.8

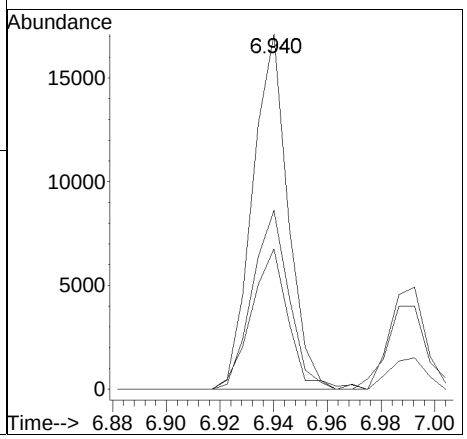


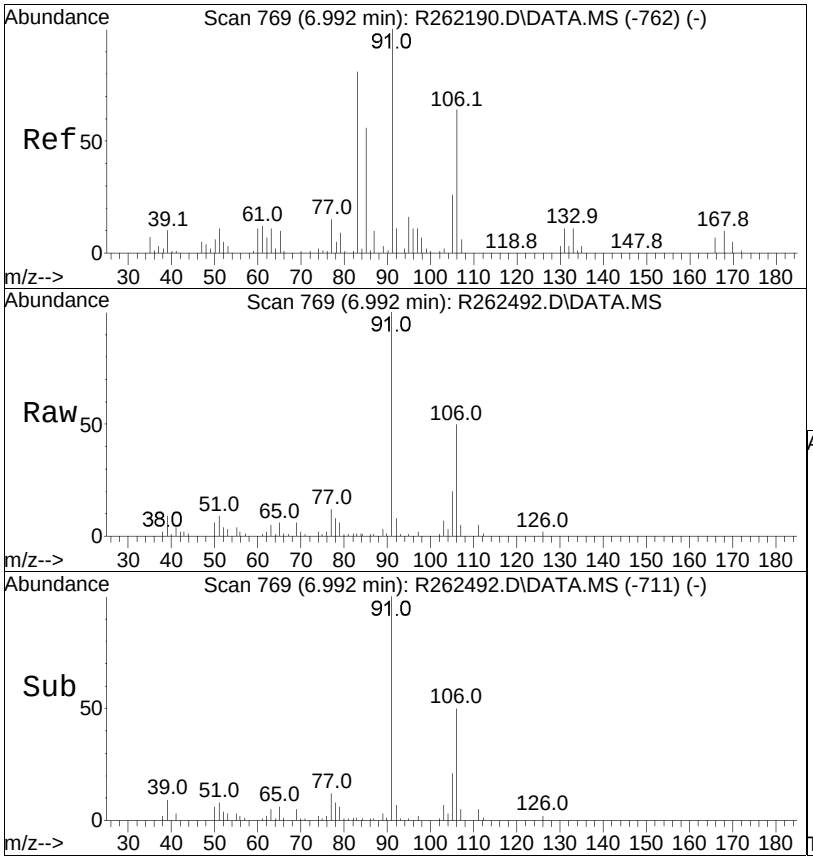


#85
styrene
Concen: 0.41 ppbV
RT: 6.940 min Scan# 760
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:104 Resp: 15850

Ion	Ratio	Lower	Upper
104	100		
103	50.4	38.0	57.0
78	39.5	30.8	46.2

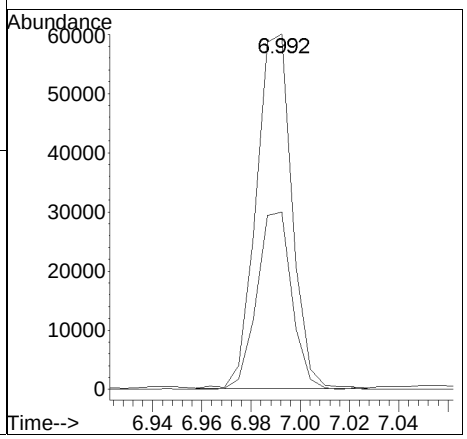


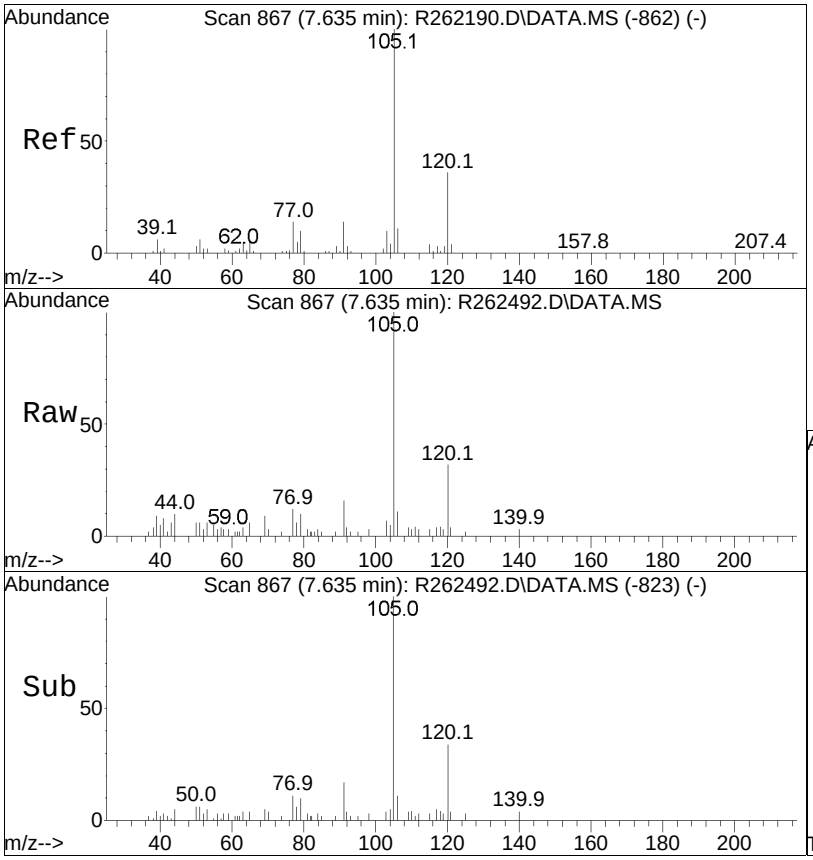


#87
o-xylene
Concen: 1.16 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.006 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 91 Resp: 60315

Ion	Ratio	Lower	Upper
91	100		
106	49.9	39.2	58.8

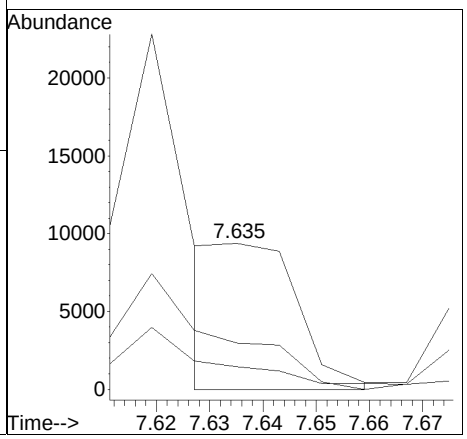


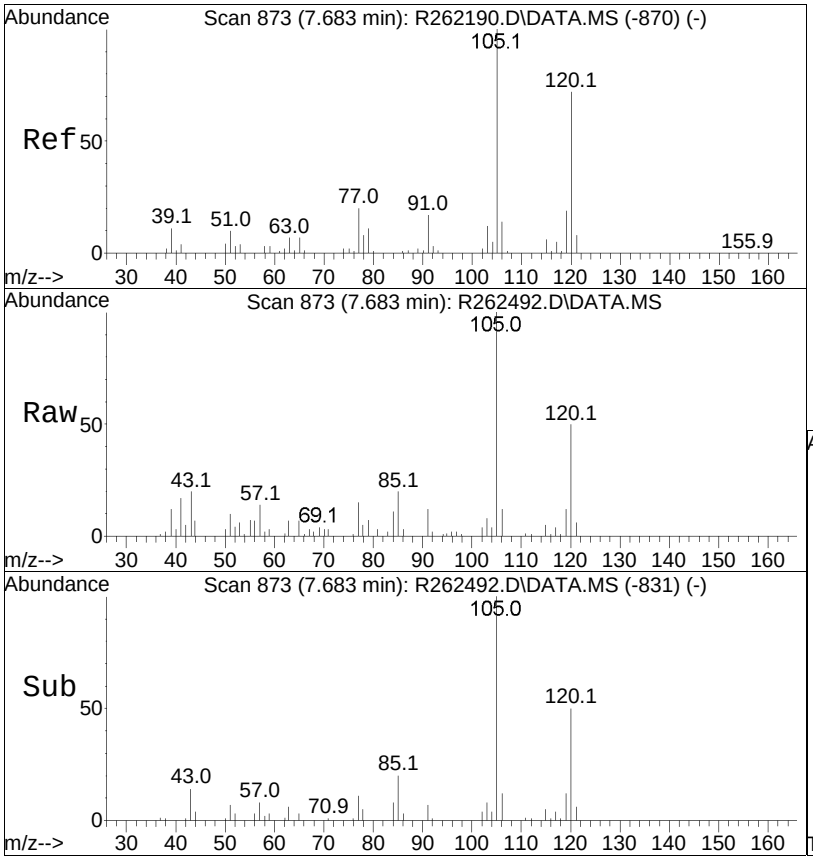


#96
4-ethyl toluene
Concen: 0.16 ppbV m
RT: 7.635 min Scan# 867
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:105 Resp: 9719

Ion	Ratio	Lower	Upper
105	100		
120	31.8	24.4	36.6
91	15.5	8.8	13.2#

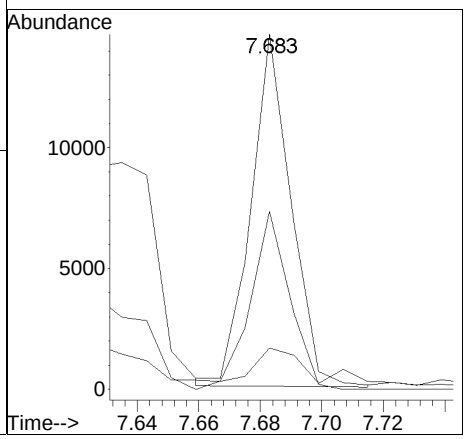


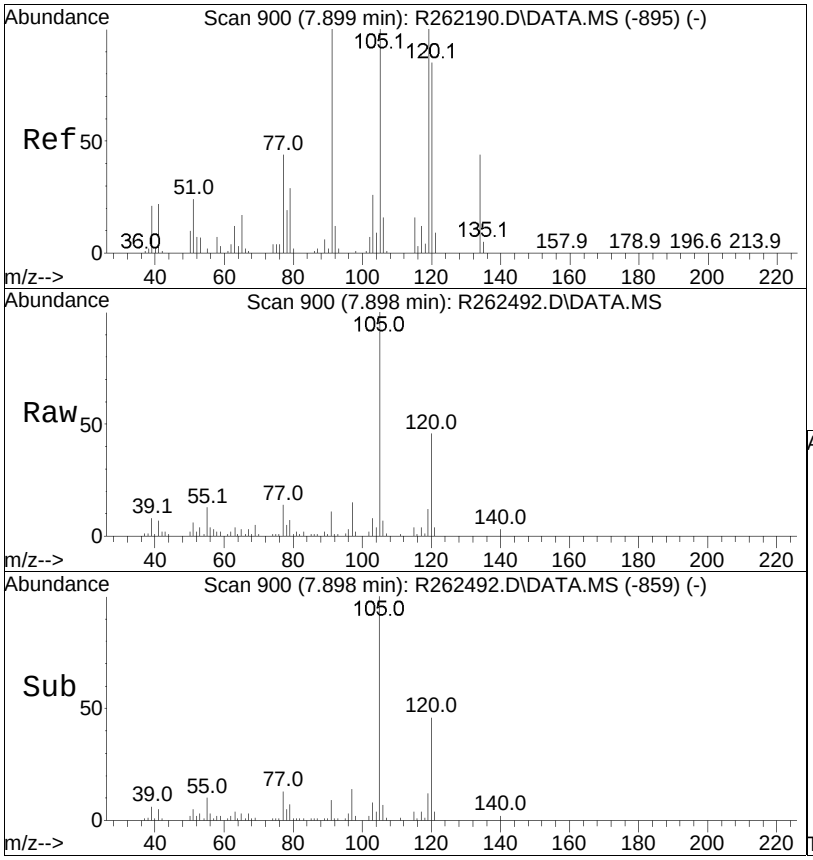


#97
1,3,5-trimethylbenzene
Concen: 0.23 ppbV
RT: 7.683 min Scan# 873
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:105 Resp: 13200

Ion	Ratio	Lower	Upper
105	100		
120	50.2	40.1	60.1
91	11.7	8.4	12.6

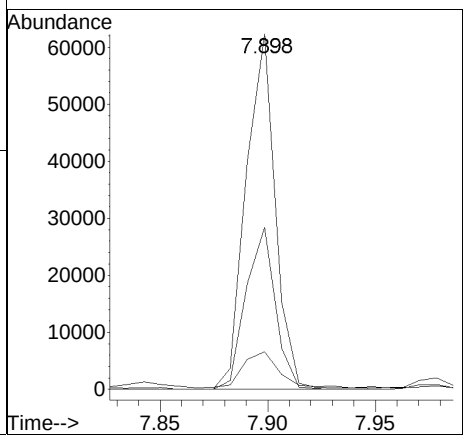


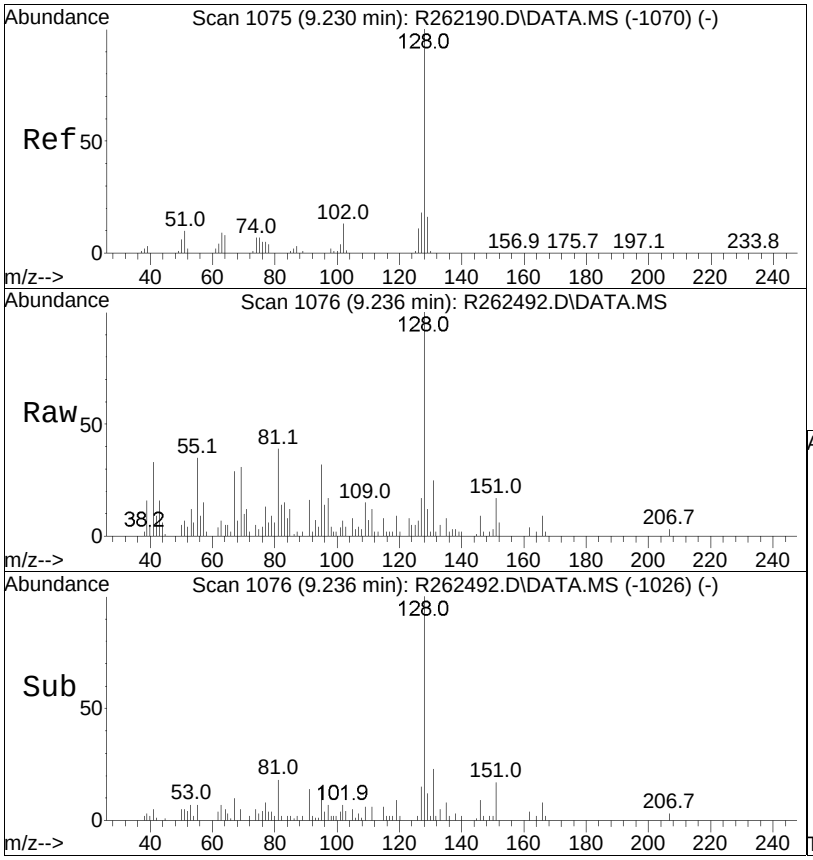


#99
1,2,4-trimethylbenzene
Concen: 0.96 ppbV
RT: 7.898 min Scan# 900
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:105 Resp: 59194

Ion	Ratio	Lower	Upper
105	100		
120	45.6	43.6	65.4
91	10.6	37.5	56.3#

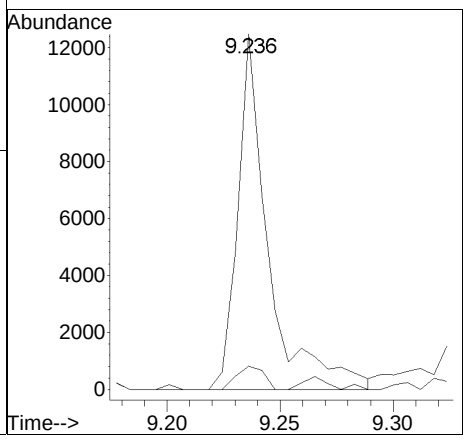




#116
naphthalene
Concen: 0.13 ppbV
RT: 9.236 min Scan# 1076
Delta R.T. -0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:128 Resp: 11753

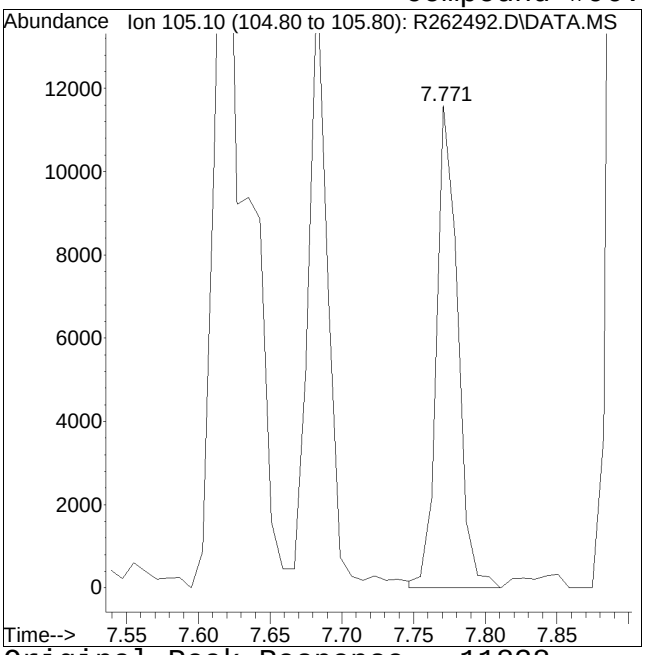
Ion	Ratio	Lower	Upper
128	100		
102	6.5	6.4	9.6



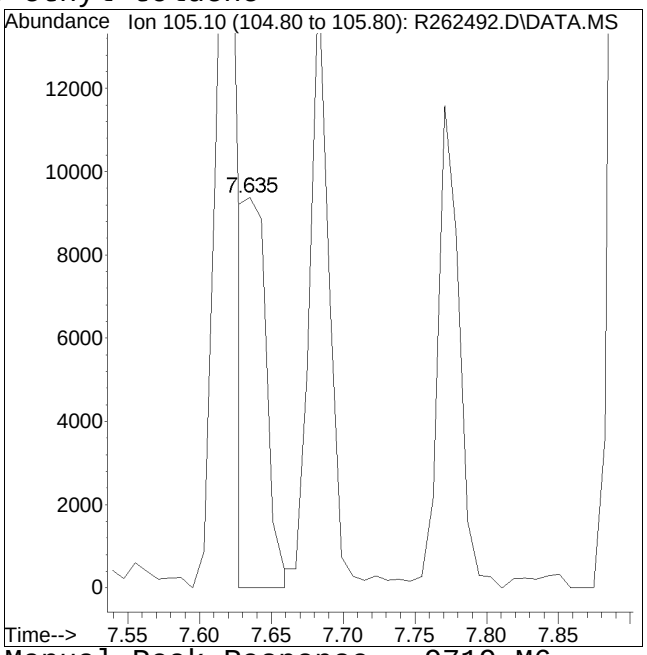
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262492.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 8:37 pm Instrument : Airlab26
Sample : L2514968-02,3,250,250 Quant Date : 3/28/2025 6:46 am

Compound #96: 4-ethyl toluene



Original Peak Response = 11838



Manual Peak Response = 9719 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262493.D
Acq On : 27 Mar 2025 09:10 pm
Operator : AIRLAB26:TPH
Sample : L2514968-03,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 06:48:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	182984	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 104.46%			
43) 1,4-difluorobenzene	4.365	114	602021	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 98.28%			
67) chlorobenzene-D5	6.449	54	96676	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 102.15%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.024	85	15755	0.486	ppbV	95
6) chloromethane	2.074	50	7116	0.631	ppbV #	88
7) Freon-114	2.107		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.277		0	N.D.		
14) chloroethane	2.321		0	N.D.		
15) ethanol	2.365	31	117527	14.196	ppbV	92
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.505	43	642911	29.532	ppbV #	98
21) trichlorofluoromethane	2.551	101	12730	0.224	ppbV	99
22) isopropyl alcohol	2.568	45	140612	5.395	ppbV	99
27) tertiary butyl alcohol	2.736	59	249188	5.391	ppbV	99
28) methylene chloride	2.760	49	4604	0.194	ppbV	85
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	2.846		0	N.D.		
31) Freon 113	2.846	101	3521	0.074	ppbV #	80
32) trans-1,2-dichloroethene	3.062	61	1388	0.048	ppbV #	79
33) 1,1-dichloroethane	3.062		0	N.D.		
34) MTBE	3.155		0	N.D.		
36) 2-butanone	3.279	43	464061	22.951	ppbV	98
38) Ethyl Acetate	3.561	61	514	0.123	ppbV #	1
39) chloroform	3.568	83	18168	0.593	ppbV	98
40) Tetrahydrofuran	3.740	42	17916	1.850	ppbV	89
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.546	57	6214	0.393	ppbV #	12
50) benzene	4.186	78	18130	0.453	ppbV	98
53) cyclohexane	4.309	56	6049	0.380	ppbV	88
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262493.D
Acq On : 27 Mar 2025 09:10 pm
Operator : AIRLAB26:TPH
Sample : L2514968-03,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 06:48:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

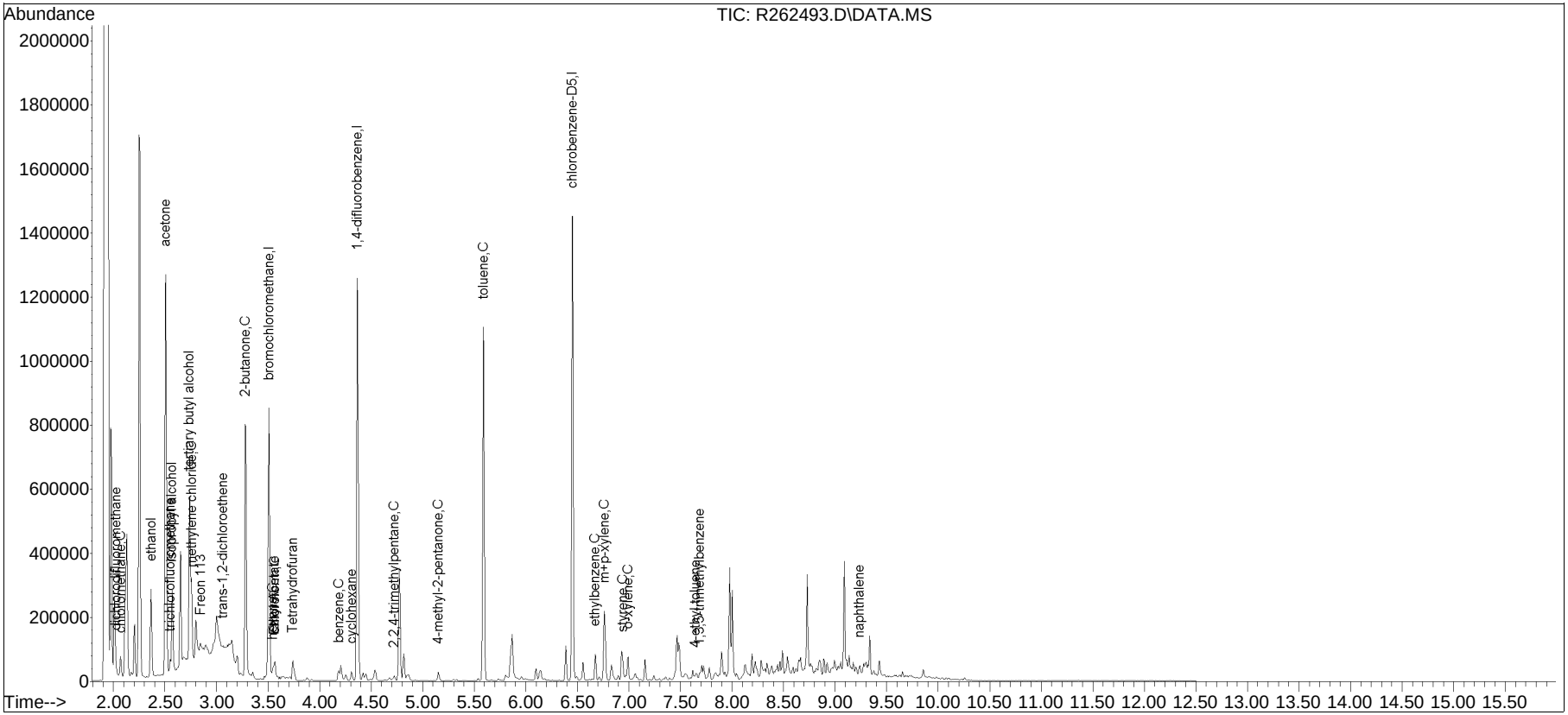
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D. d		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.724	57	7258	0.146	ppbV #	99
62) heptane	0.000		0	N.D. d		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.150	43	6198	0.287	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	465526	9.080	ppbV	98
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	5.781		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	6.471		0	N.D.		
81) ethylbenzene	6.673	91	34230	0.531	ppbV	99
83) m+p-xylene	6.760	91	95389	1.842	ppbV	100
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	14681	0.385	ppbV	98
86) 1,1,2,2-tetrachloroethane	6.975		0	N.D.		
87) o-xylene	6.992	91	24131	0.464	ppbV	92
96) 4-ethyl toluene	7.643	105	2774M6	0.045	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	5816	0.100	ppbV #	90
99) 1,2,4-trimethylbenzene	7.970		0	N.D.		
101) Benzyl Chloride	7.962		0	N.D.		
102) 1,3-dichlorobenzene	7.994		0	N.D.		
103) 1,4-dichlorobenzene	7.994		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.183		0	N.D.		
116) naphthalene	9.236	128	4827	0.054	ppbV #	91
119) hexachlorobutadiene	0.000		0	N.D.		

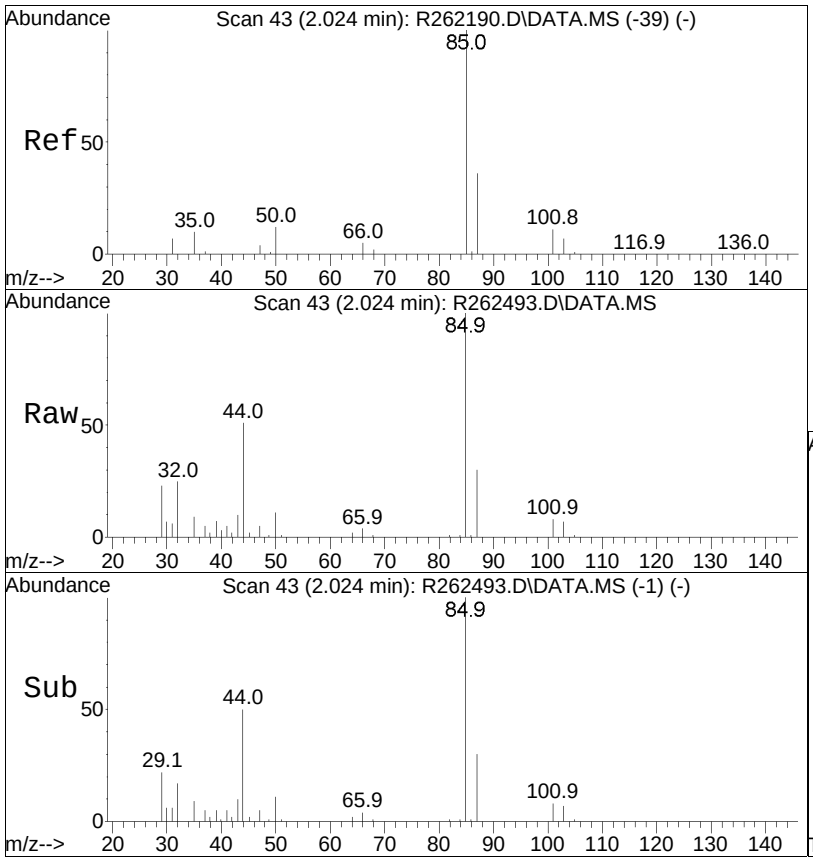
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262493.D
Acq On : 27 Mar 2025 09:10 pm
Operator : AIRLAB26:TPH
Sample : L2514968-03,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 06:48:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

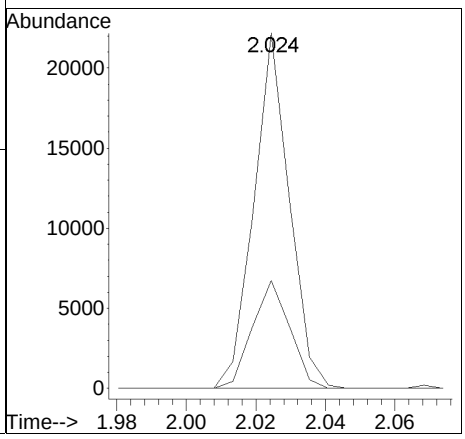


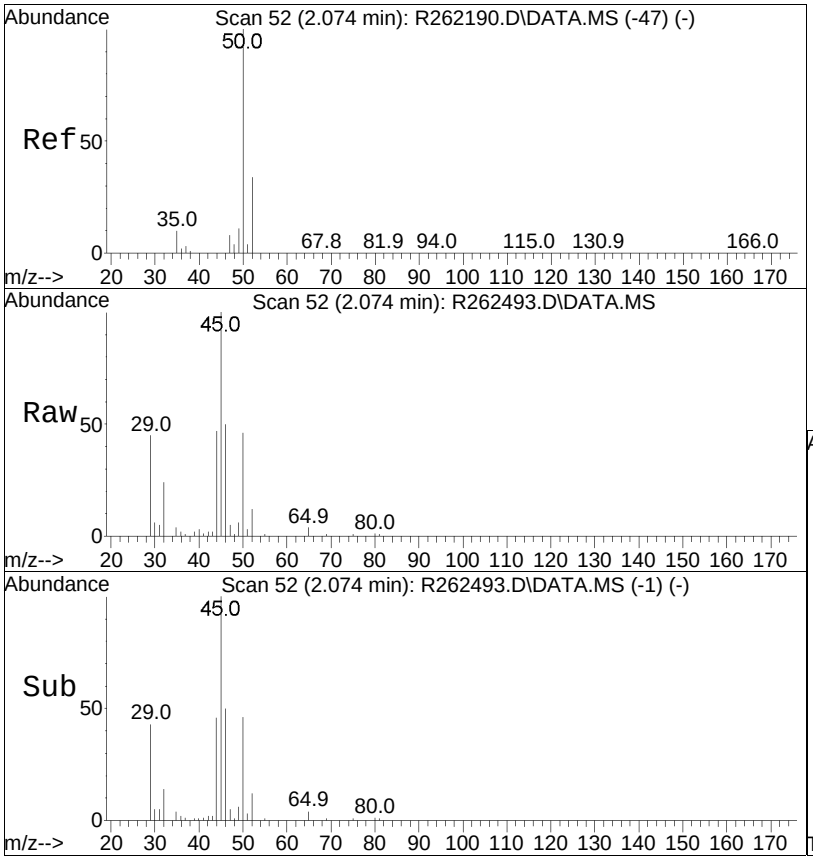


#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 2.024 min Scan# 43
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 85 Resp: 15755

Ion	Ratio	Lower	Upper
85	100		
87	30.4	26.4	39.6

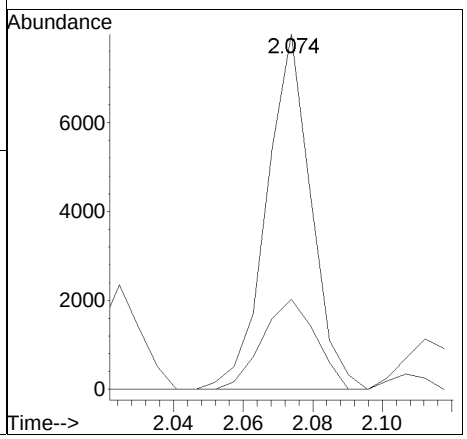


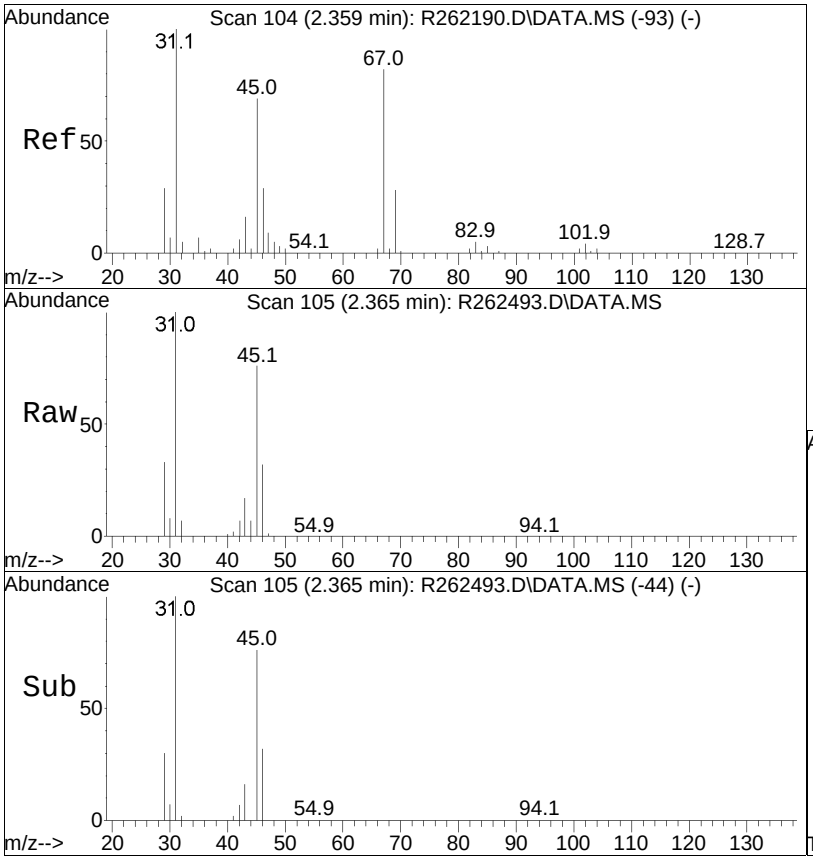


#6
chloromethane
Concen: 0.63 ppbV
RT: 2.074 min Scan# 52
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 50 Resp: 7116

Ion	Ratio	Lower	Upper
50	100		
52	25.4	25.6	38.4#

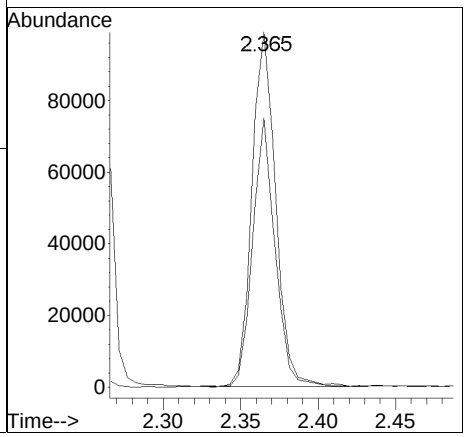


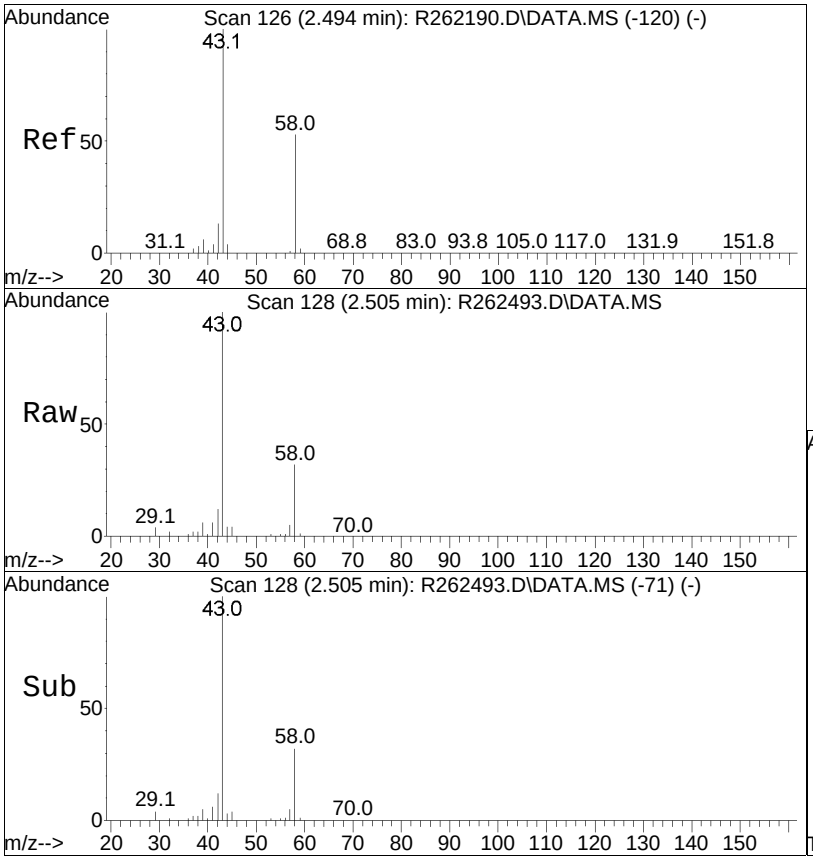


#15
ethanol
Concen: 14.20 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.006 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 31 Resp: 117527

Ion	Ratio	Lower	Upper
31	100		
45	75.9	55.4	83.2

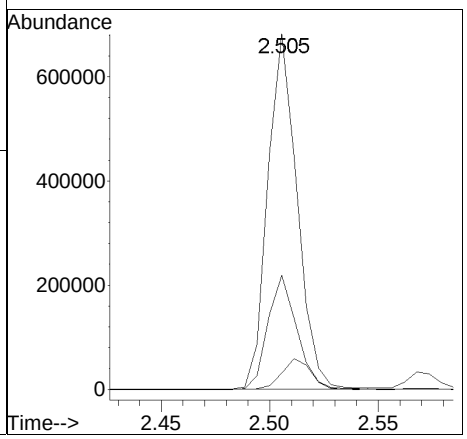


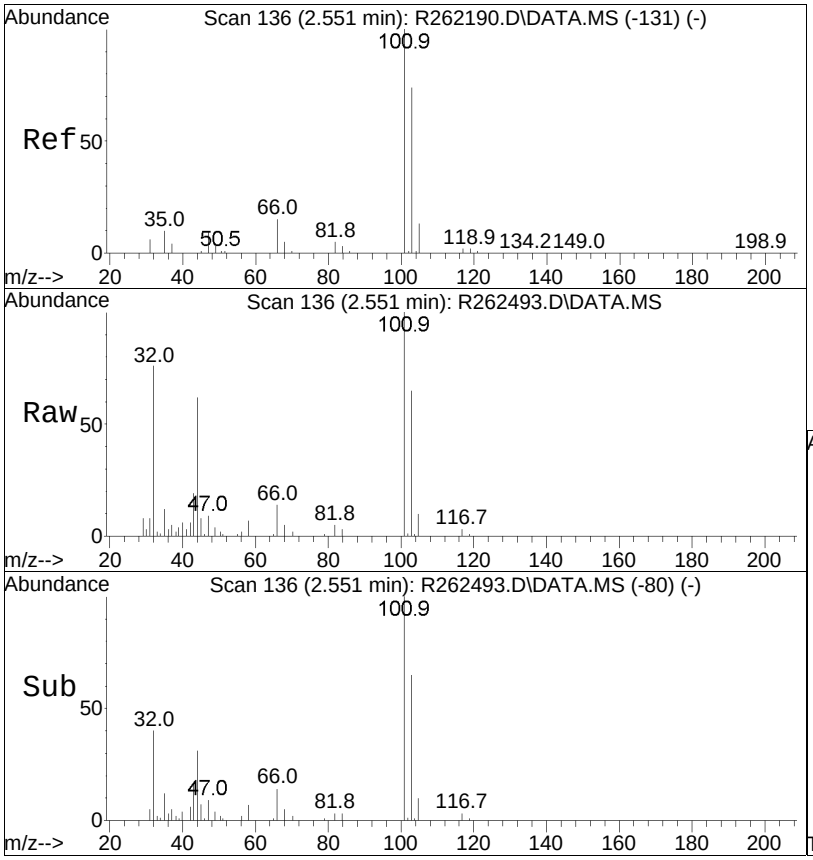


#19
acetone
Concen: 29.53 ppbV
RT: 2.505 min Scan# 128
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 43 Resp: 642911

Ion	Ratio	Lower	Upper
43	100		
58	32.1	26.7	40.1
57	4.6	0.7	1.1#

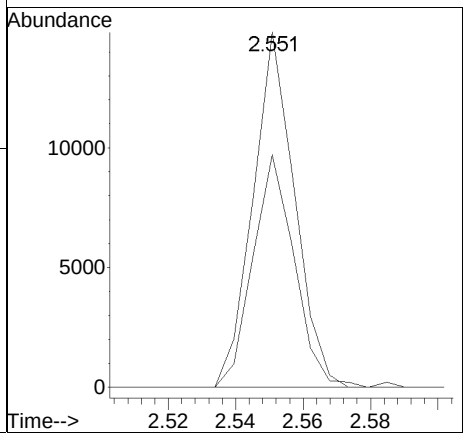


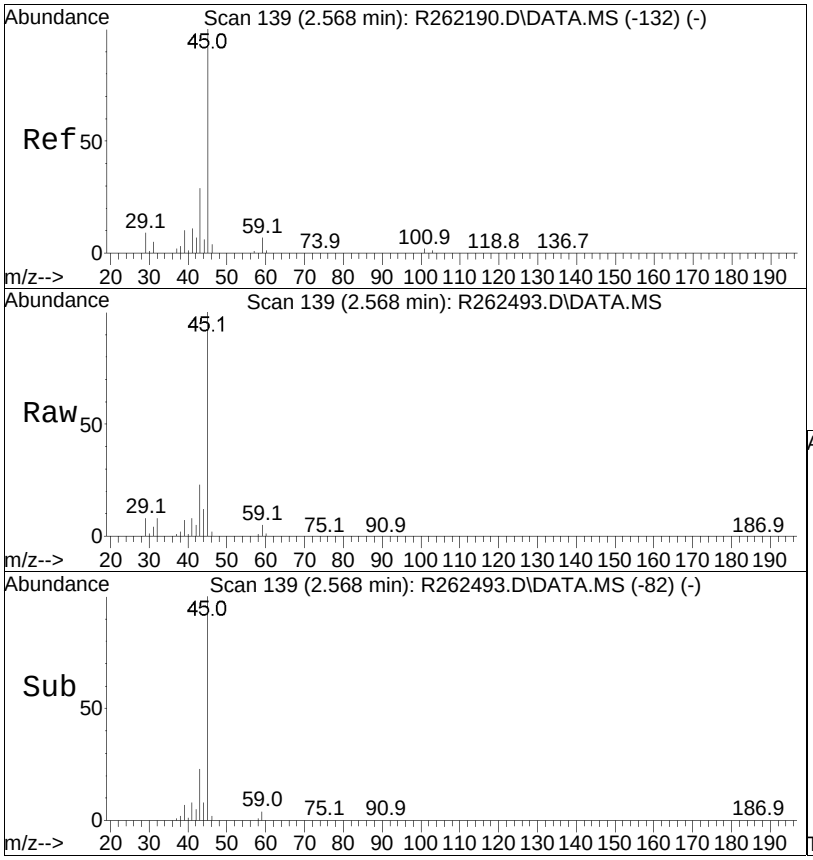


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 2.551 min Scan# 136
Delta R.T. -0.006 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:101 Resp: 12730

Ion	Ratio	Lower	Upper
101	100		
103	65.5	51.7	77.5

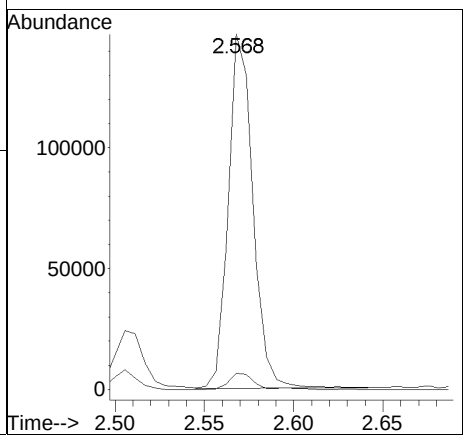


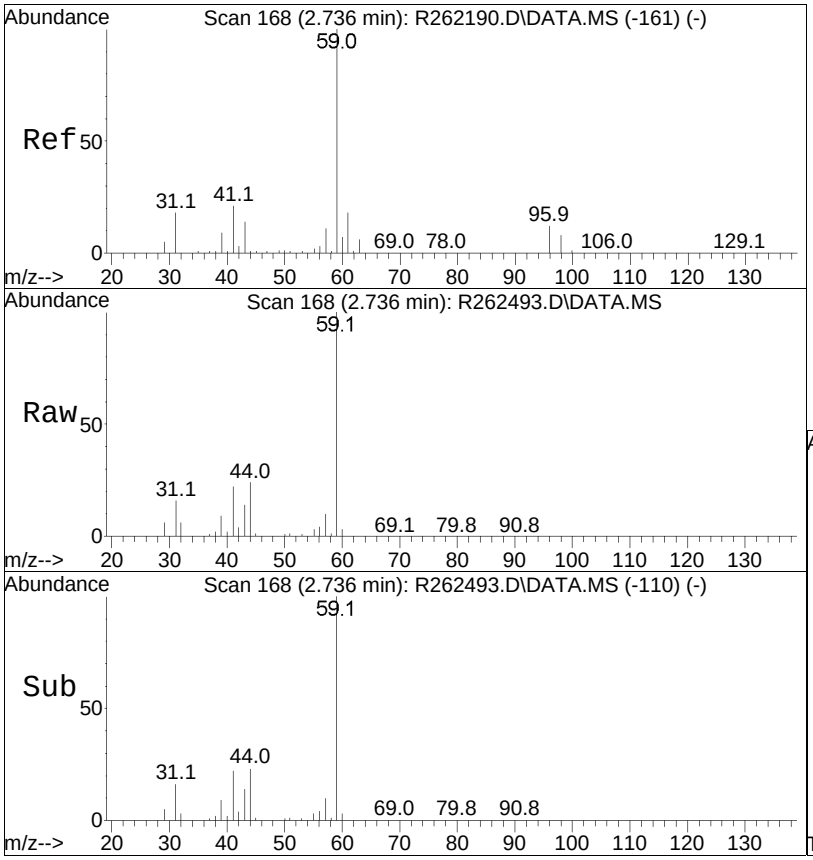


#22
isopropyl alcohol
Concen: 5.40 ppbV
RT: 2.568 min Scan# 139
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 45 Resp: 140612

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.5	5.3

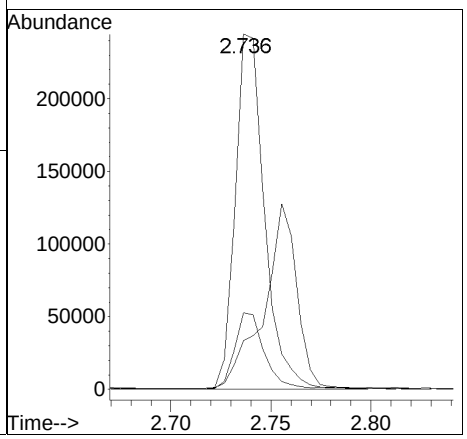


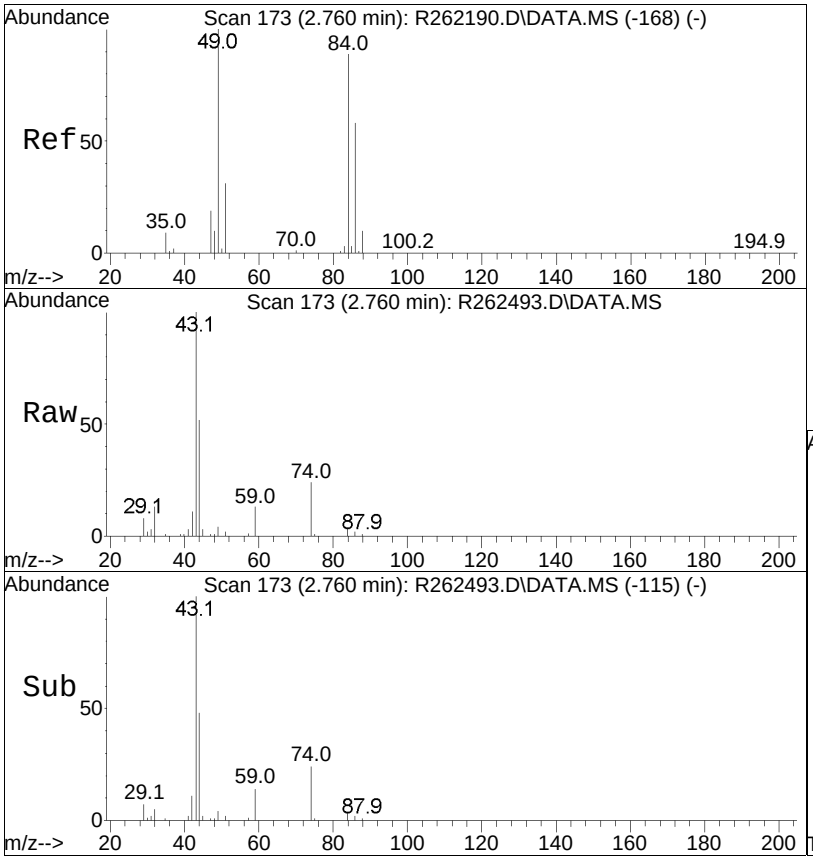


#27
tertiary butyl alcohol
Concen: 5.39 ppbV
RT: 2.736 min Scan# 168
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 59 Resp: 249188

Ion	Ratio	Lower	Upper
59	100		
41	21.6	16.5	24.7
43	13.7	10.8	16.2

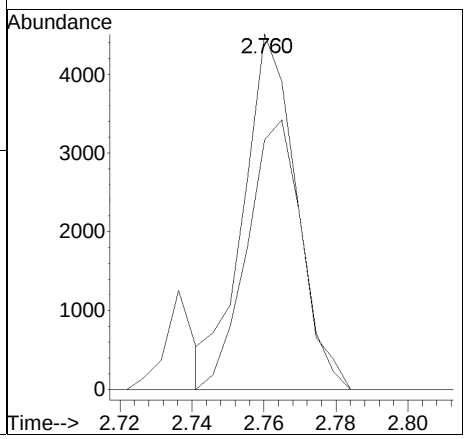


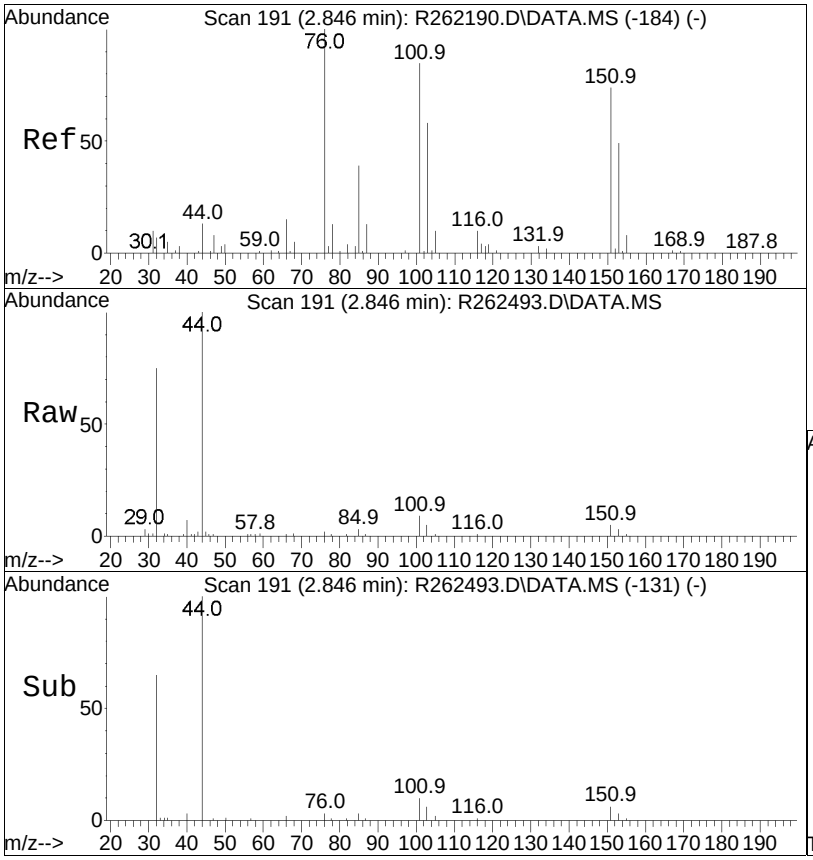


#28
methylene chloride
Concen: 0.19 ppbV
RT: 2.760 min Scan# 173
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 49 Resp: 4604

Ion	Ratio	Lower	Upper
49	100		
84	70.2	67.1	100.7

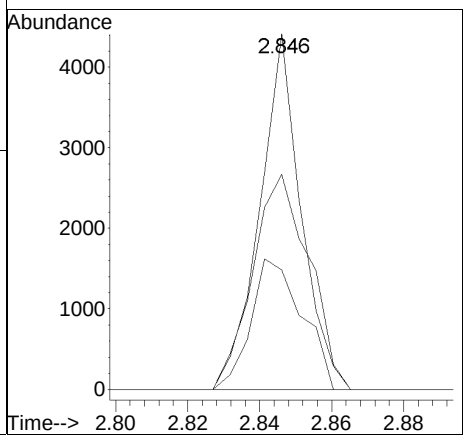


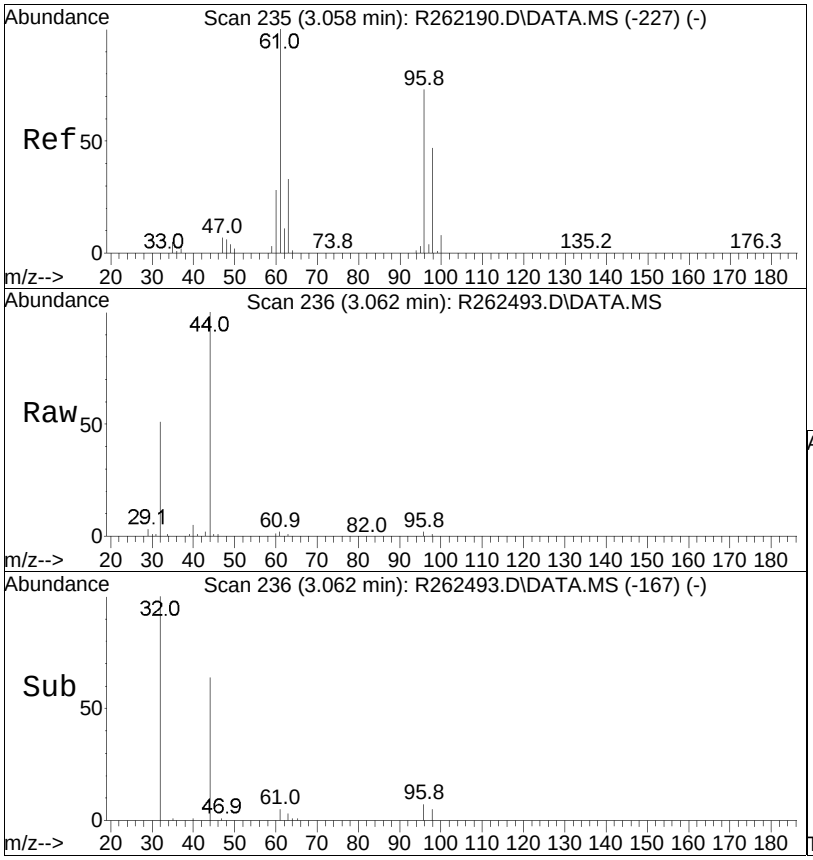


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.846 min Scan# 191
Delta R.T. -0.005 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:101 Resp: 3521

Ion	Ratio	Lower	Upper
101	100		
85	33.6	34.0	51.0#
151	60.5	64.4	96.6#

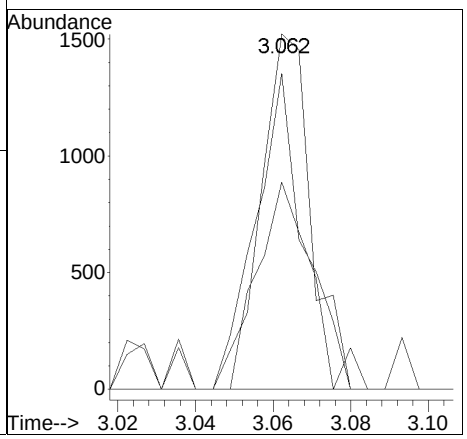


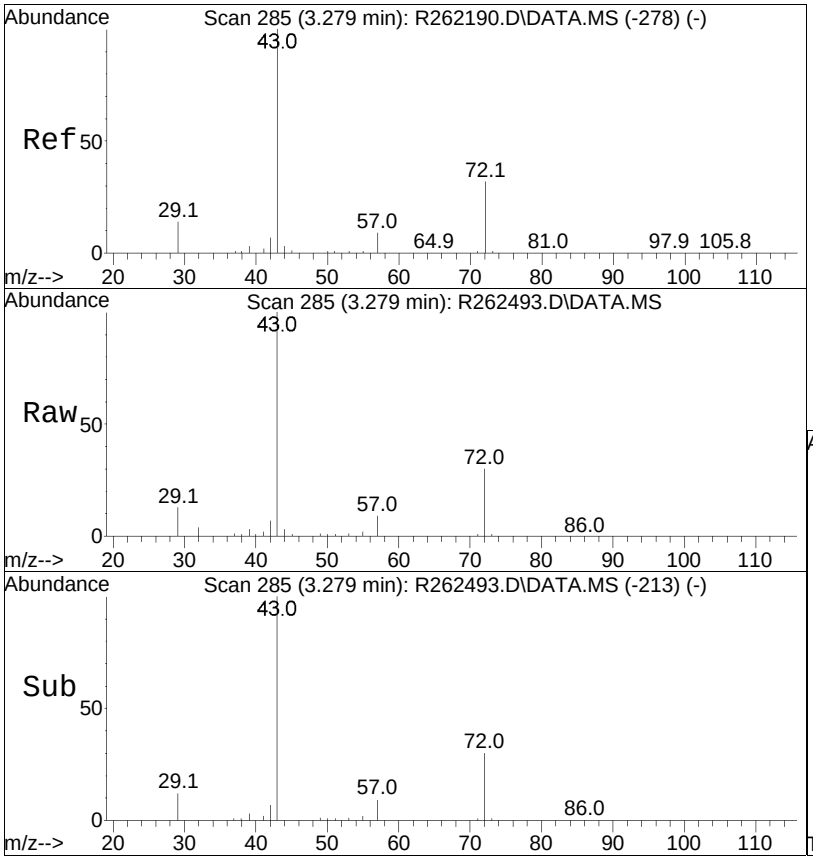


#32
trans-1,2-dichloroethene
Concen: 0.05 ppbV
RT: 3.062 min Scan# 236
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 61 Resp: 1388

Ion	Ratio	Lower	Upper
61	100		
96	88.9	57.2	85.8#
98	58.3	36.0	54.0#

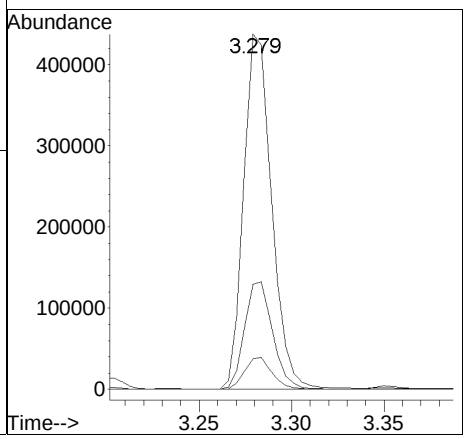


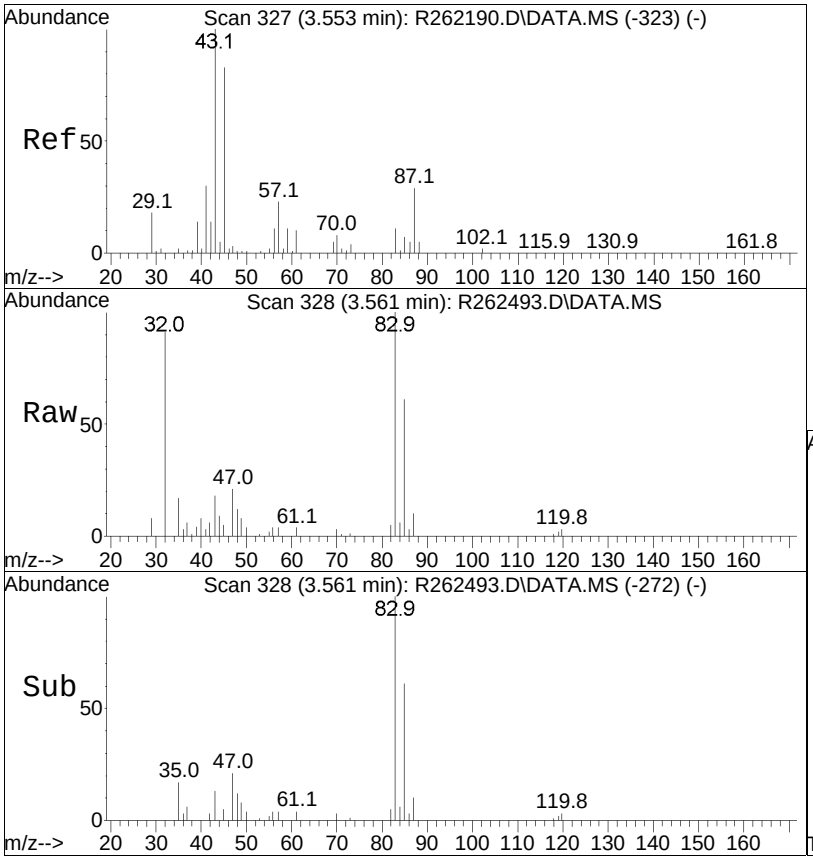


#36
2-butanone
Concen: 22.95 ppbV
RT: 3.279 min Scan# 285
Delta R.T. -0.004 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 43 Resp: 464061

Ion	Ratio	Lower	Upper
43	100		
72	29.6	24.5	36.7
57	8.6	7.0	10.6

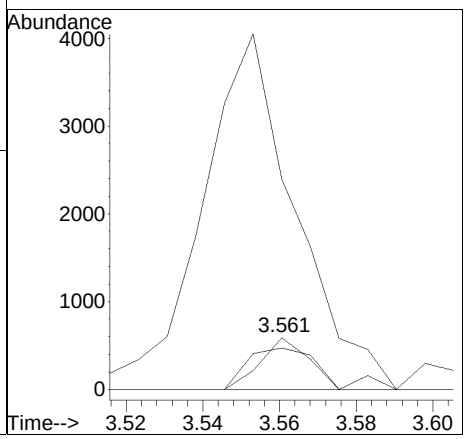


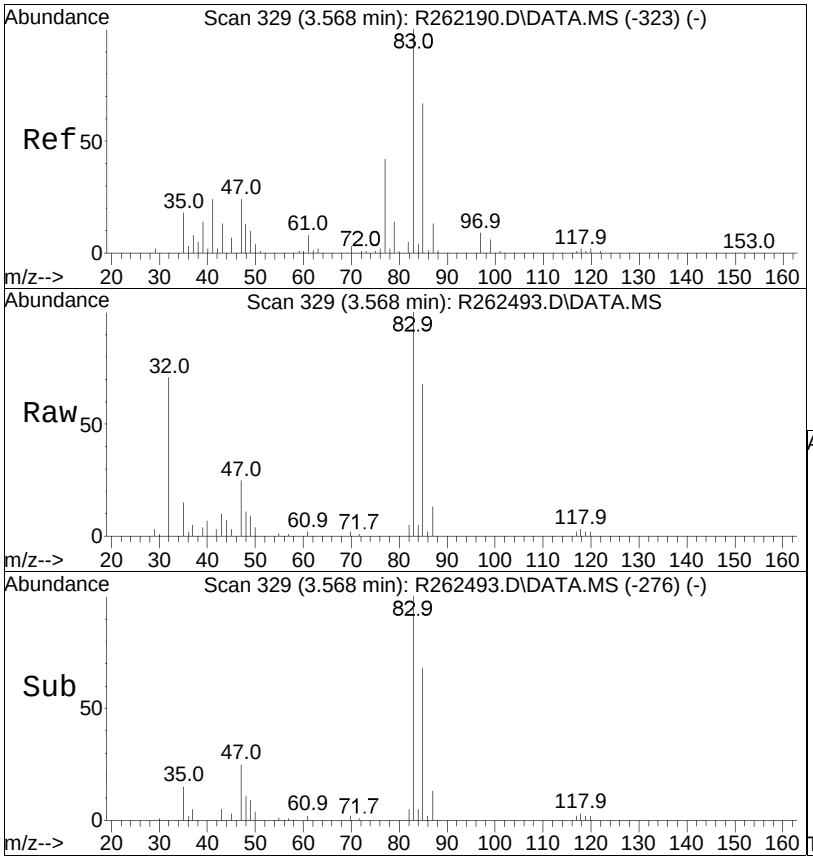


#38
Ethyl Acetate
Concen: 0.12 ppbV
RT: 3.561 min Scan# 328
Delta R.T. 0.007 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 61 Resp: 514

Ion	Ratio	Lower	Upper
61	100		
70	80.3	65.2	97.8
43	407.5	1134.1	1701.1#

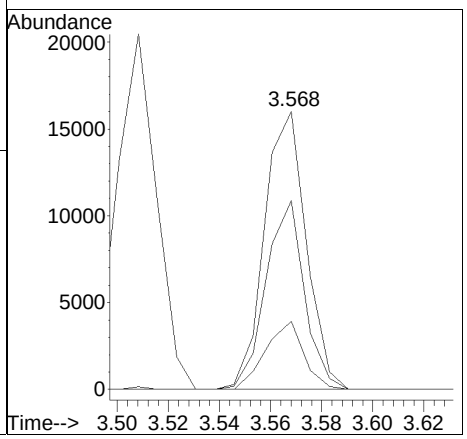


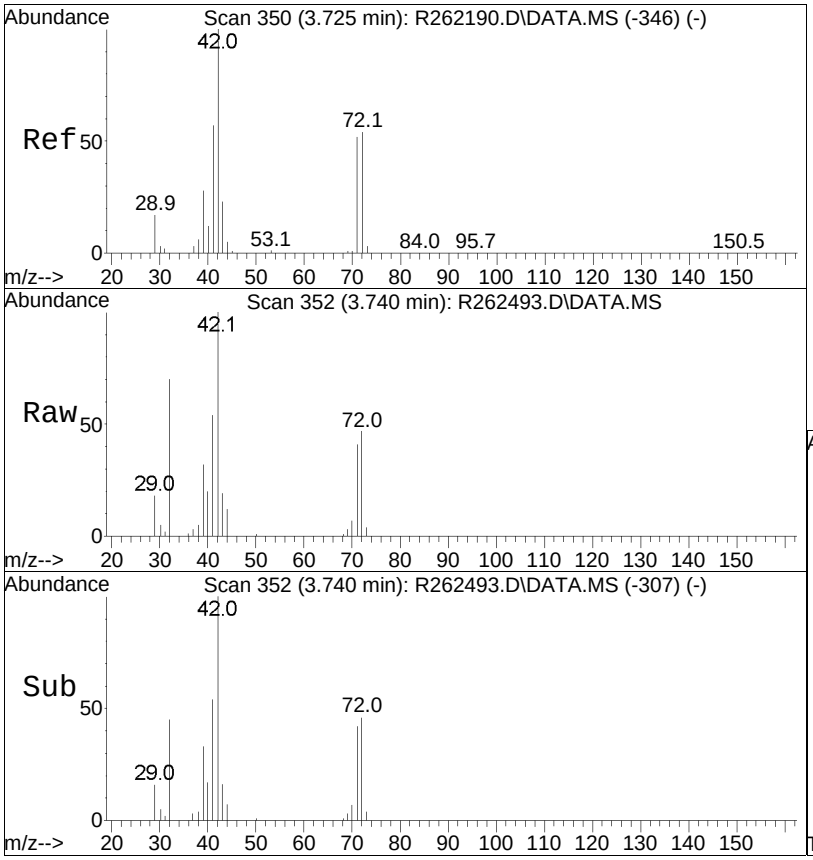


#39
chloroform
Concen: 0.59 ppbV
RT: 3.568 min Scan# 329
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 83 Resp: 18168

Ion	Ratio	Lower	Upper
83	100		
85	67.9	53.0	79.4
47	24.5	18.2	27.4

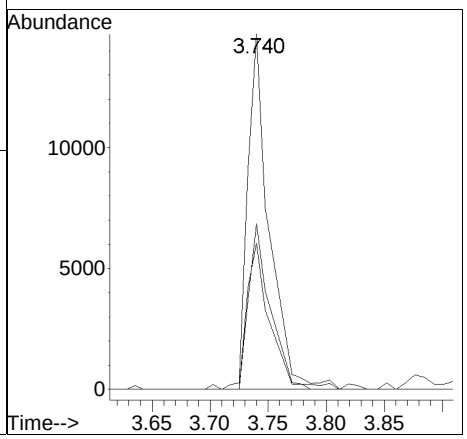


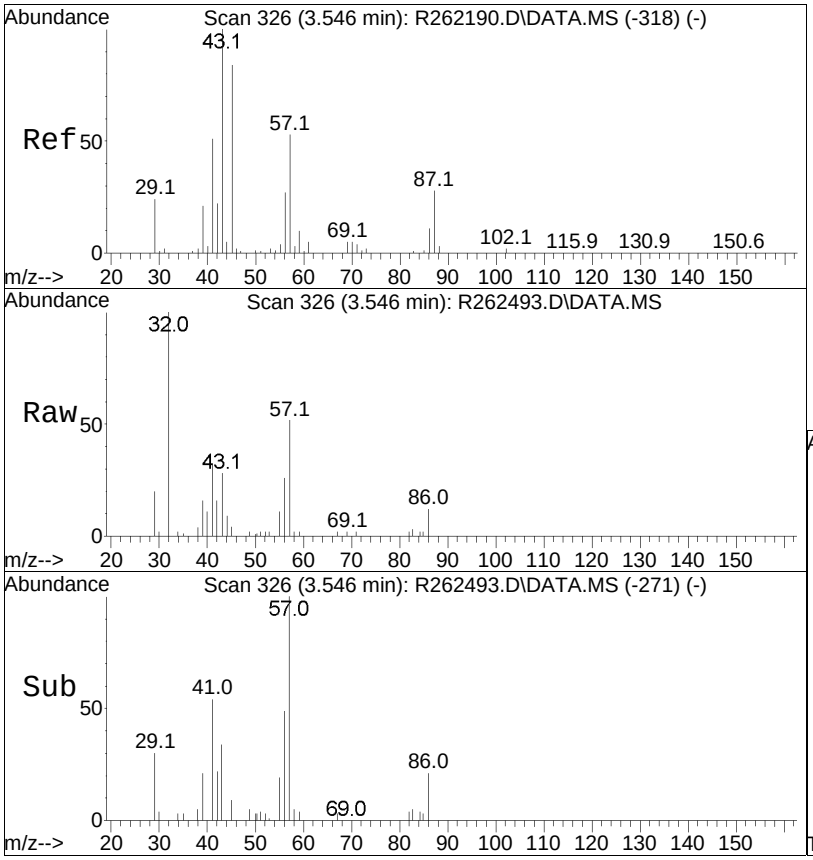


#40
Tetrahydrofuran
Concen: 1.85 ppbV
RT: 3.740 min Scan# 352
Delta R.T. 0.008 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 42 Resp: 17916

Ion	Ratio	Lower	Upper
42	100		
71	41.2	38.2	57.4
72	46.6	43.9	65.9

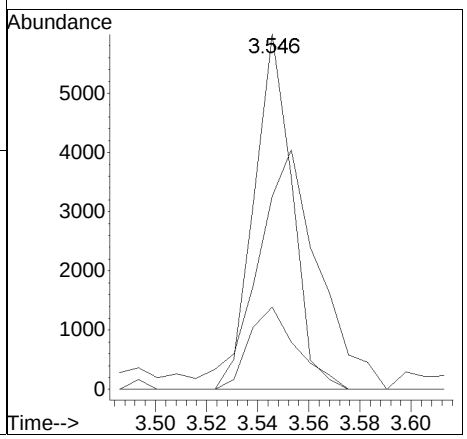


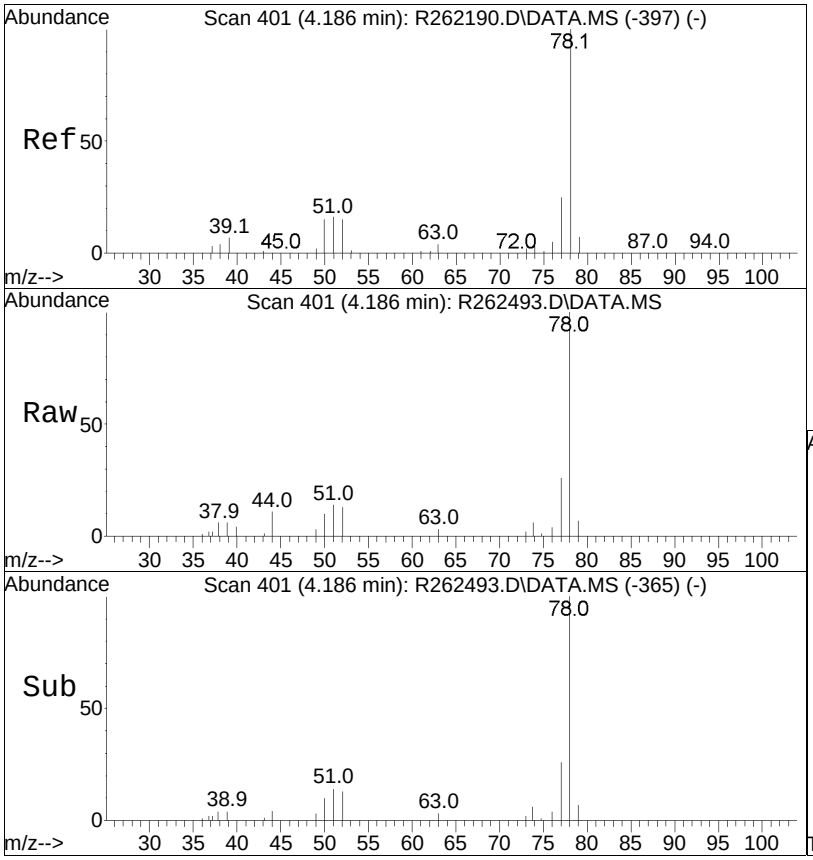


#44
hexane
Concen: 0.39 ppbV
RT: 3.546 min Scan# 326
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 57 Resp: 6214

Ion	Ratio	Lower	Upper
57	100		
43	54.3	161.1	241.7#
86	23.2	16.2	24.4

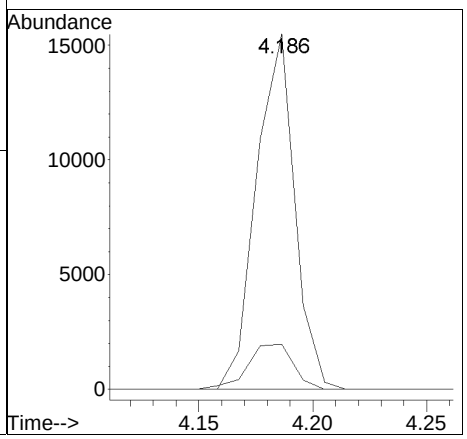


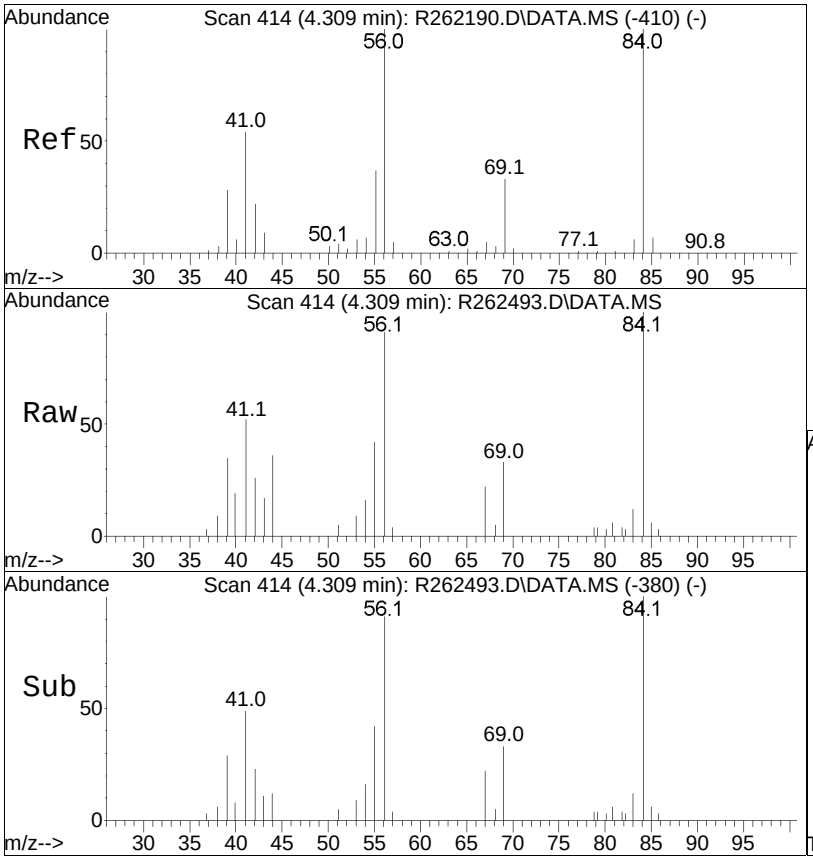


#50
benzene
Concen: 0.45 ppbV
RT: 4.186 min Scan# 401
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 78 Resp: 18130

Ion	Ratio	Lower	Upper
78	100		
52	12.7	10.8	16.2

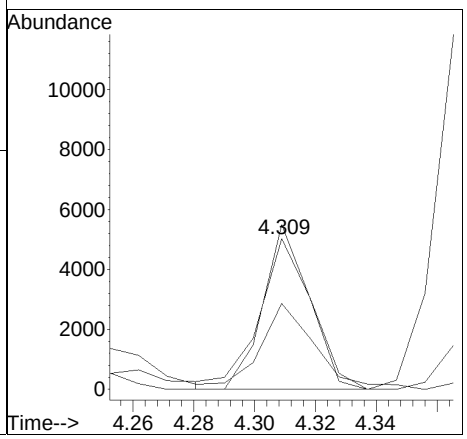


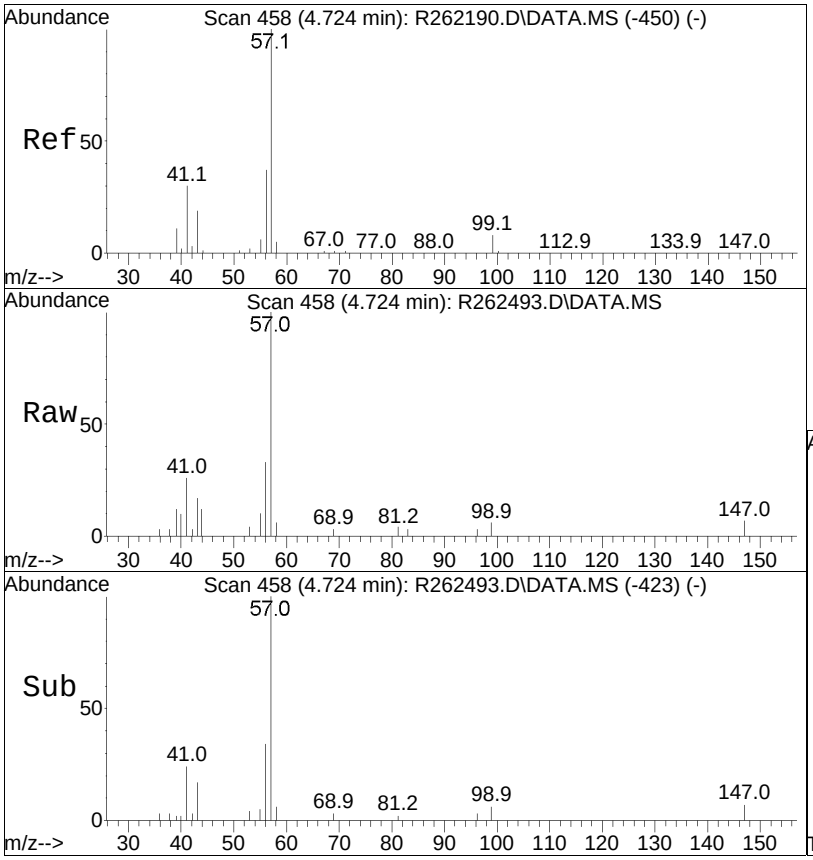


#53
cyclohexane
Concen: 0.38 ppbV
RT: 4.309 min Scan# 414
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 56 Resp: 6049

Ion	Ratio	Lower	Upper
56	100		
84	109.4	75.0	112.4
41	57.0	43.1	64.7

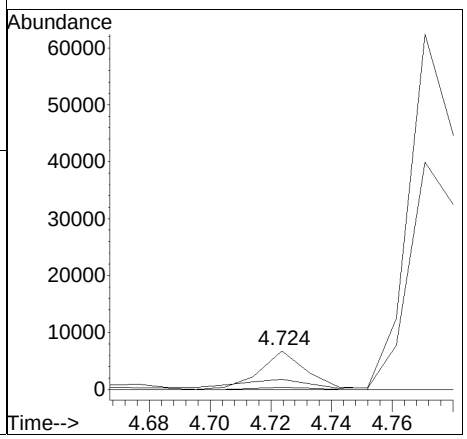


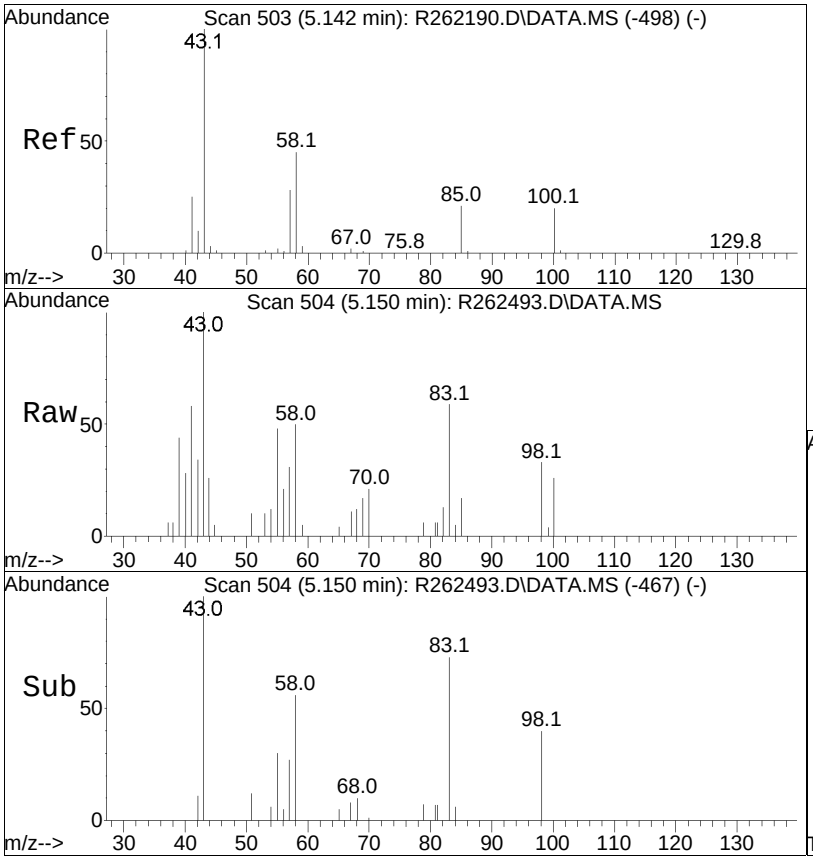


#60
2,2,4-trimethylpentane
Concen: 0.15 ppbV
RT: 4.724 min Scan# 458
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 57 Resp: 7258

Ion	Ratio	Lower	Upper
57	100		
99	5.7	5.8	8.6#
41	26.3	21.1	31.7

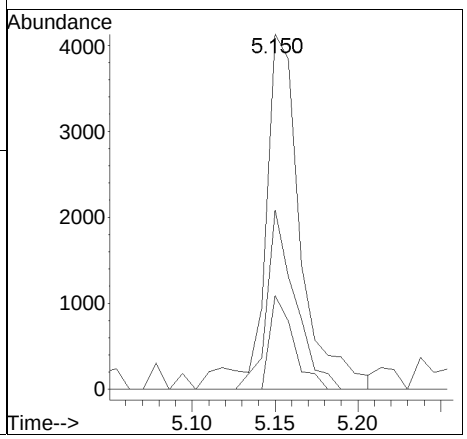


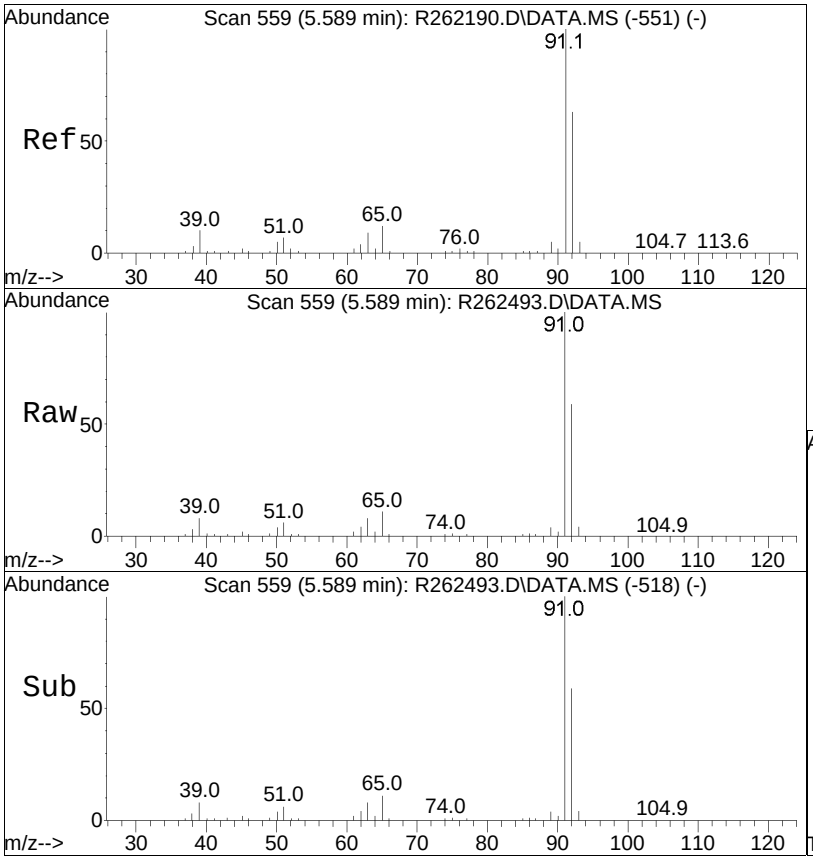


#64
4-methyl-2-pentanone
Concen: 0.29 ppbV
RT: 5.150 min Scan# 504
Delta R.T. 0.008 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 43 Resp: 6198

Ion	Ratio	Lower	Upper
43	100		
58	50.5	34.0	51.0
100	26.4	14.5	21.7#

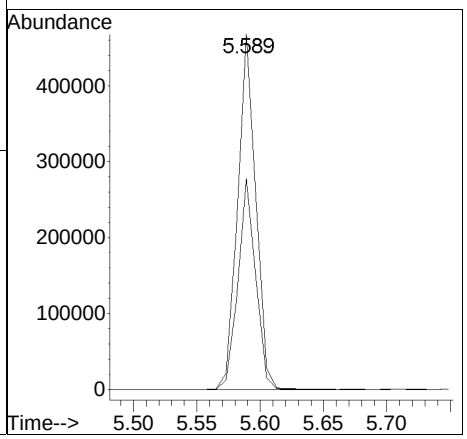


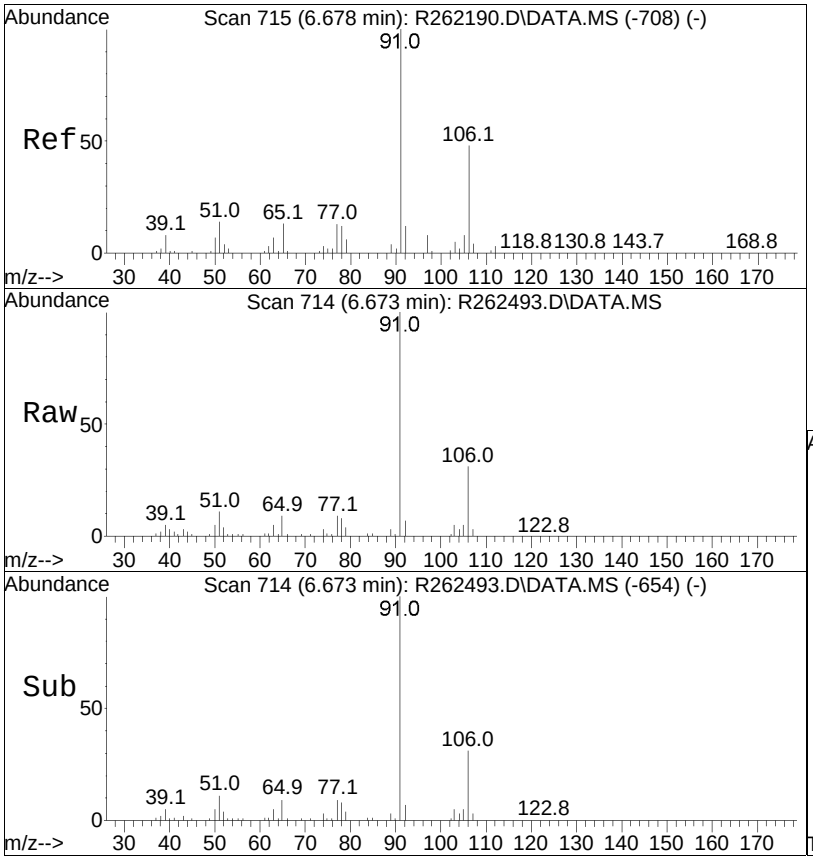


#68
toluene
Concen: 9.08 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 91 Resp: 465526

Ion	Ratio	Lower	Upper
91	100		
92	59.3	46.4	69.6

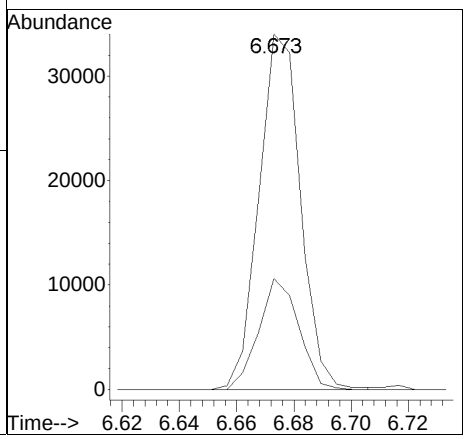


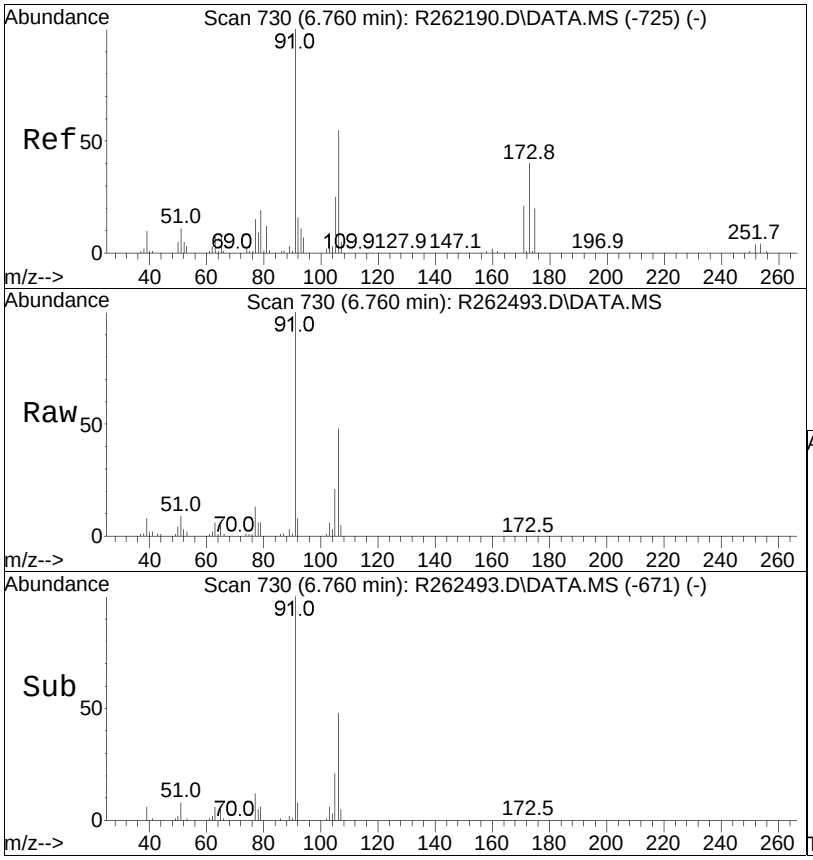


#81
ethylbenzene
Concen: 0.53 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 91 Resp: 34230

Ion	Ratio	Lower	Upper
91	100		
106	31.2	25.3	37.9

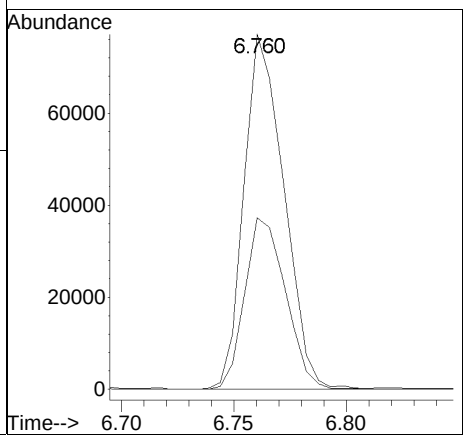


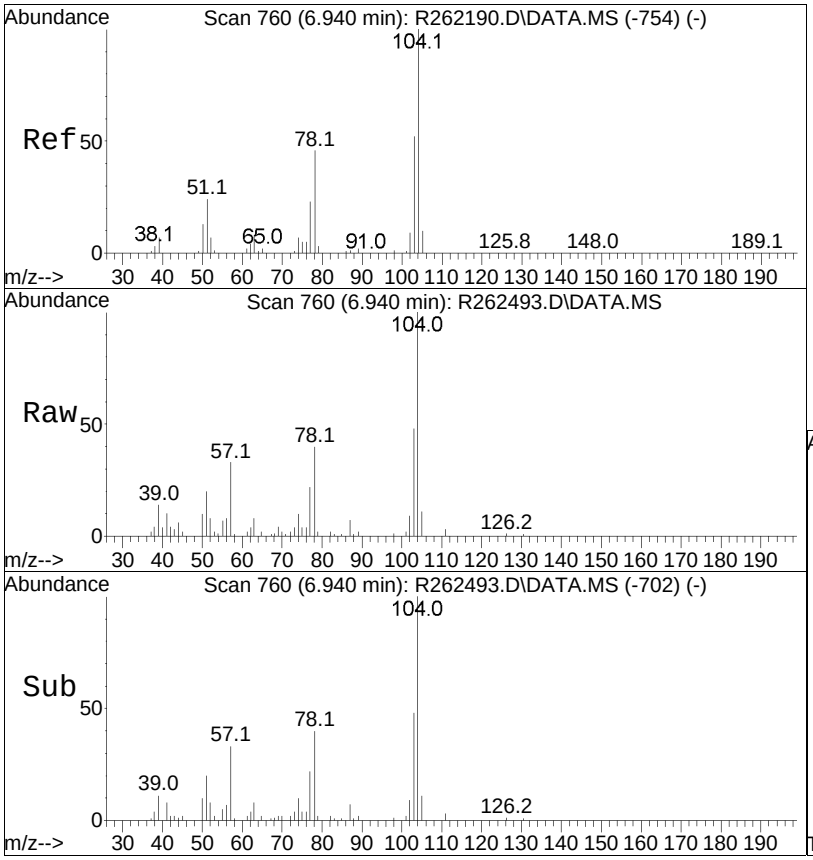


#83
m+p-xylene
Concen: 1.84 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 91 Resp: 95389

Ion	Ratio	Lower	Upper
91	100		
106	48.3	38.6	57.8

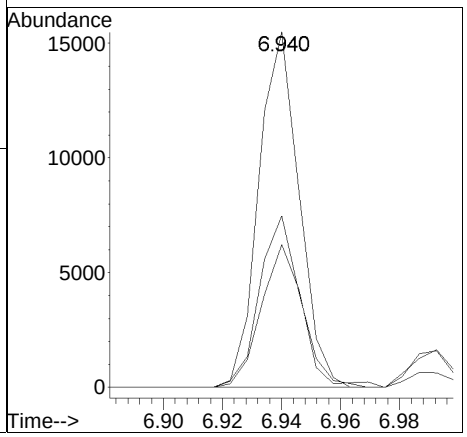


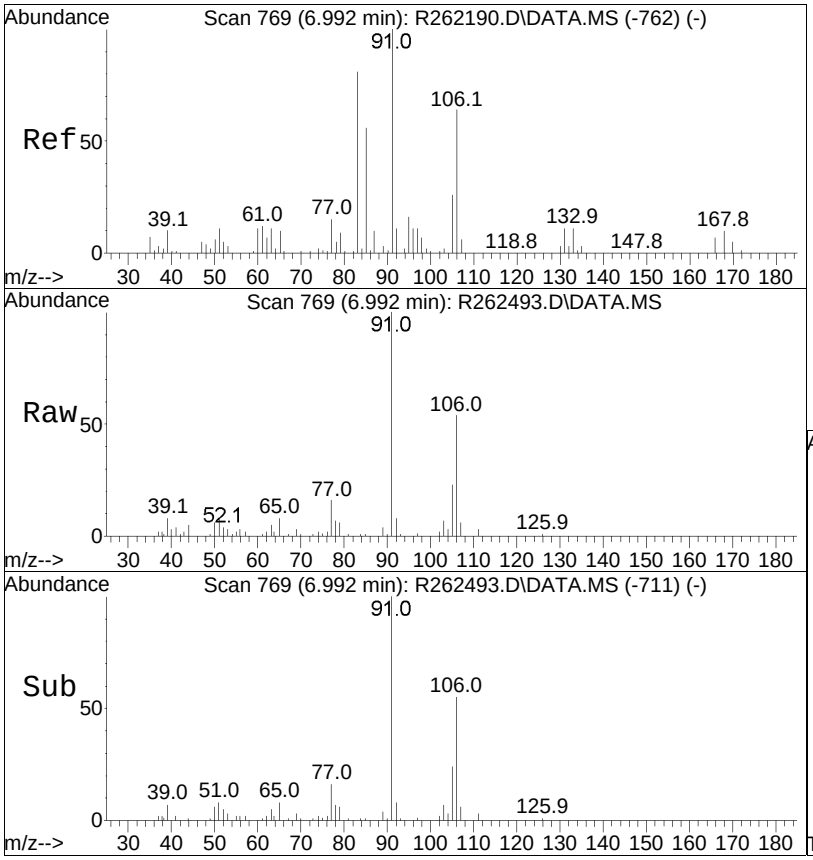


#85
styrene
Concen: 0.39 ppbV
RT: 6.940 min Scan# 760
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:104 Resp: 14681

Ion	Ratio	Lower	Upper
104	100		
103	48.3	38.0	57.0
78	40.2	30.8	46.2

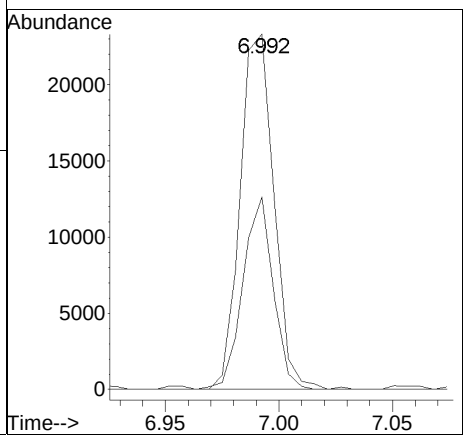


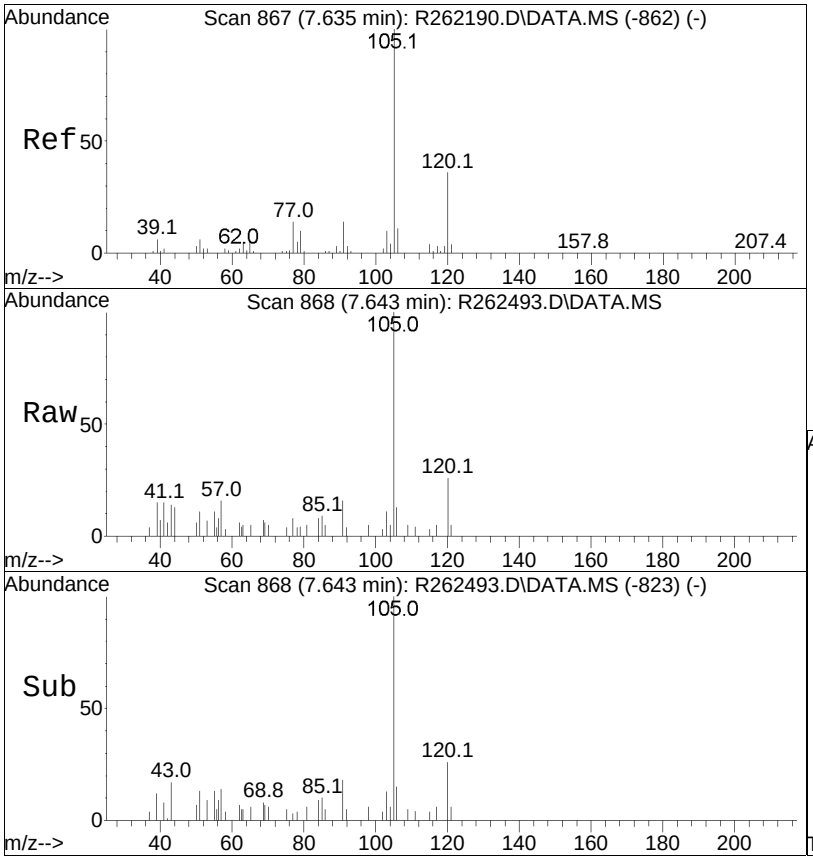


#87
o-xylene
Concen: 0.46 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.006 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion: 91 Resp: 24131

Ion	Ratio	Lower	Upper
91	100		
106	54.2	39.2	58.8

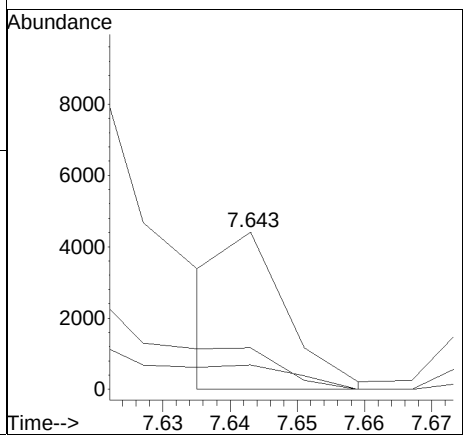


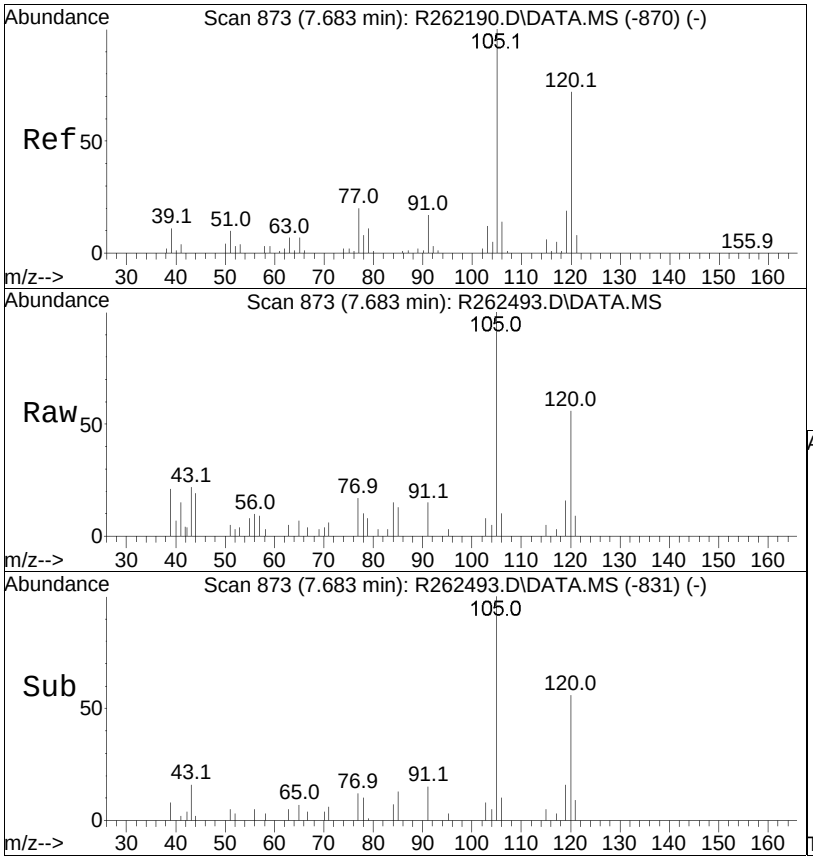


#96
4-ethyl toluene
Concen: 0.04 ppbV m
RT: 7.643 min Scan# 868
Delta R.T. 0.008 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:105 Resp: 2774

Ion	Ratio	Lower	Upper
105	100		
120	26.5	24.4	36.6
91	15.6	8.8	13.2#

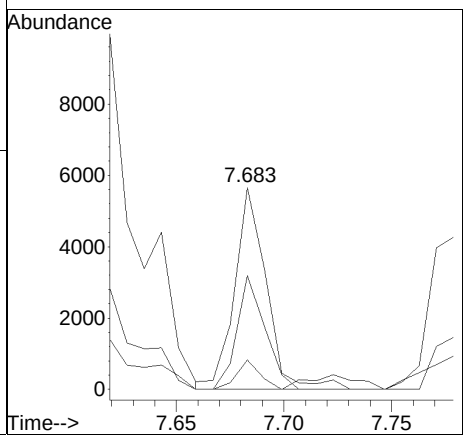


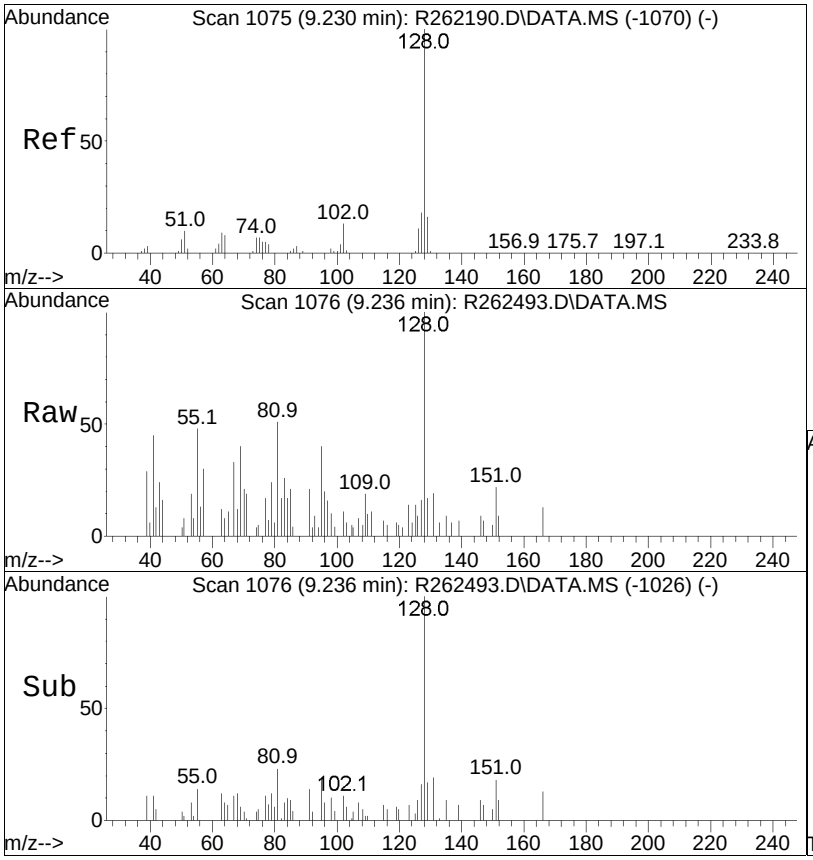


#97
1,3,5-trimethylbenzene
Concen: 0.10 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:105 Resp: 5816

Ion	Ratio	Lower	Upper
105	100		
120	56.5	40.1	60.1
91	14.6	8.4	12.6#

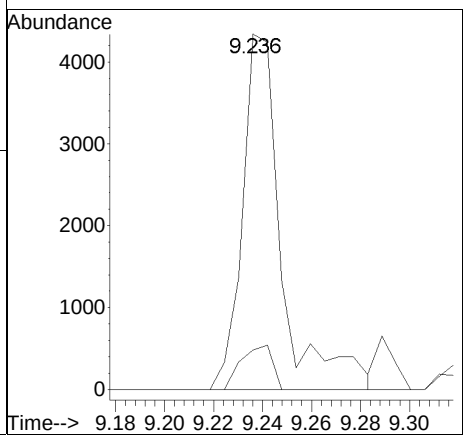




#116
naphthalene
Concen: 0.05 ppbV
RT: 9.236 min Scan# 1076
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:128 Resp: 4827

Ion	Ratio	Lower	Upper
128	100		
102	11.1	6.4	9.6#

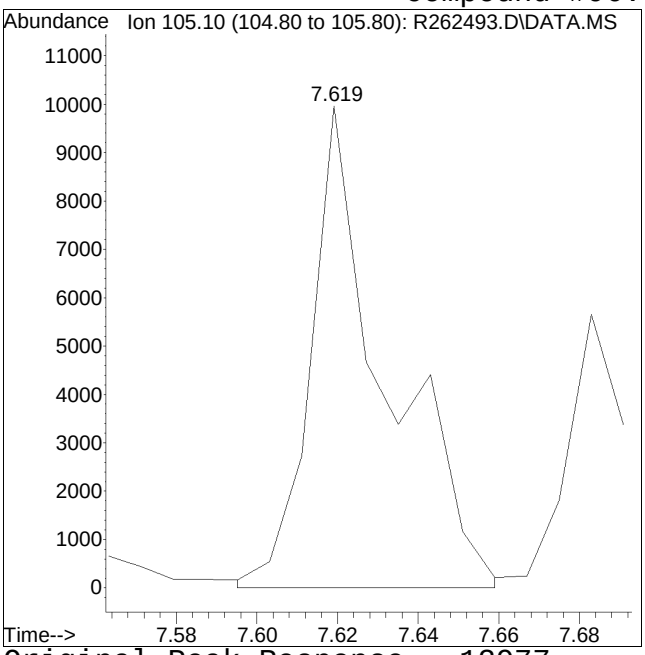


Manual Integration Report

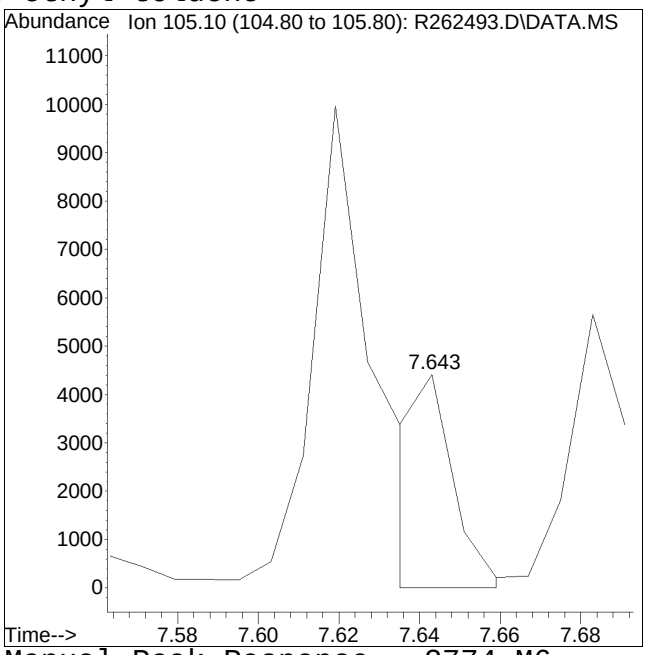
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262493.D
Date Inj'd : 3/27/2025 9:10 pm
Sample : L2514968-03,3,250,250

Method : TFS26_250314.M
Operator : AIRLAB26:TPH
Instrument : Airlab26
Quant Date : 3/28/2025 6:48 am

Compound #96: 4-ethyl toluene



Original Peak Response = 12977



Manual Peak Response = 2774 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262494.D
Acq On : 27 Mar 2025 09:42 pm
Operator : AIRLAB26:TPH
Sample : L2514968-04,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 06:49:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	187283	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 106.92%			
43) 1,4-difluorobenzene	4.365	114	625178	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 102.07%			
67) chlorobenzene-D5	6.455	54	100853	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 106.56%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.030	85	17530	0.528	ppbV	94
6) chloromethane	2.079	50	6330	0.548	ppbV	99
7) Freon-114	2.112		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	0.000		0	N.D.		
14) chloroethane	2.337		0	N.D.		
15) ethanol	2.365	31	146065	17.238	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.506	43	1361262M6	61.095	ppbV	
21) trichlorofluoromethane	2.556	101	12675	0.218	ppbV	95
22) isopropyl alcohol	2.568	45	563440	21.123	ppbV	100
27) tertiary butyl alcohol	2.741	59	554199	11.714	ppbV	99
28) methylene chloride	2.765	49	6706	0.275	ppbV	99
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	0.000		0	N.D.	d	
31) Freon 113	2.851	101	3580	0.073	ppbV	93
32) trans-1,2-dichloroethene	3.062	61	1058	0.036	ppbV #	87
33) 1,1-dichloroethane	3.133		0	N.D.		
34) MTBE	3.155		0	N.D.		
36) 2-butanone	3.284	43	600941	29.039	ppbV	100
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	3.568	83	100915	3.217	ppbV	94
40) Tetrahydrofuran	3.732	42	74127	7.477	ppbV	99
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.546	57	58100	3.535	ppbV #	13
50) benzene	4.186	78	22582	0.543	ppbV	99
53) cyclohexane	4.309	56	10622	0.643	ppbV	94
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262494.D
Acq On : 27 Mar 2025 09:42 pm
Operator : AIRLAB26:TPH
Sample : L2514968-04,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 06:49:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

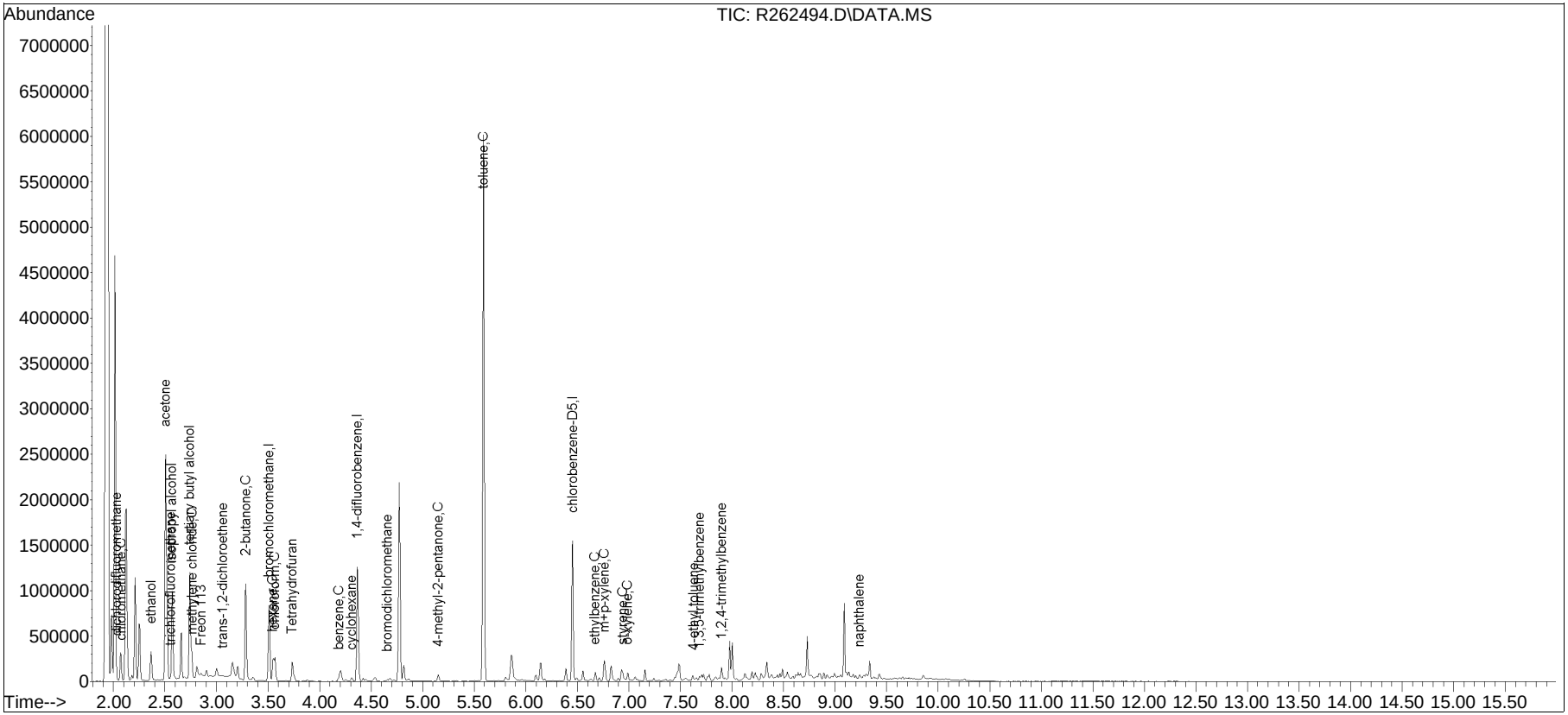
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	4.658	83	7049	0.253	ppbV #	85
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.	d	
62) heptane	0.000		0	N.D.	d	
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.150	43	12535	0.558	ppbV	92
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	5.461		0	N.D.		
68) toluene	5.589	91	2547167	47.623	ppbV	99
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	5.781		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	6.449		0	N.D.		
81) ethylbenzene	6.673	91	35353	0.525	ppbV	99
83) m+p-xylene	6.760	91	97011	1.795	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	19378	0.488	ppbV	97
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.	d	
87) o-xylene	6.987	91	27772	0.512	ppbV	98
96) 4-ethyl toluene	7.627	105	6768M6	0.105	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	11540	0.190	ppbV #	95
99) 1,2,4-trimethylbenzene	7.899	105	39174	0.609	ppbV #	67
101) Benzyl Chloride	7.954		0	N.D.		
102) 1,3-dichlorobenzene	7.994		0	N.D.		
103) 1,4-dichlorobenzene	7.994		0	N.D.		
107) 1,2-dichlorobenzene	8.178		0	N.D.		
115) 1,2,4-trichlorobenzene	9.090		0	N.D.		
116) naphthalene	9.236	128	7868	0.085	ppbV #	85
119) hexachlorobutadiene	9.464		0	N.D.		

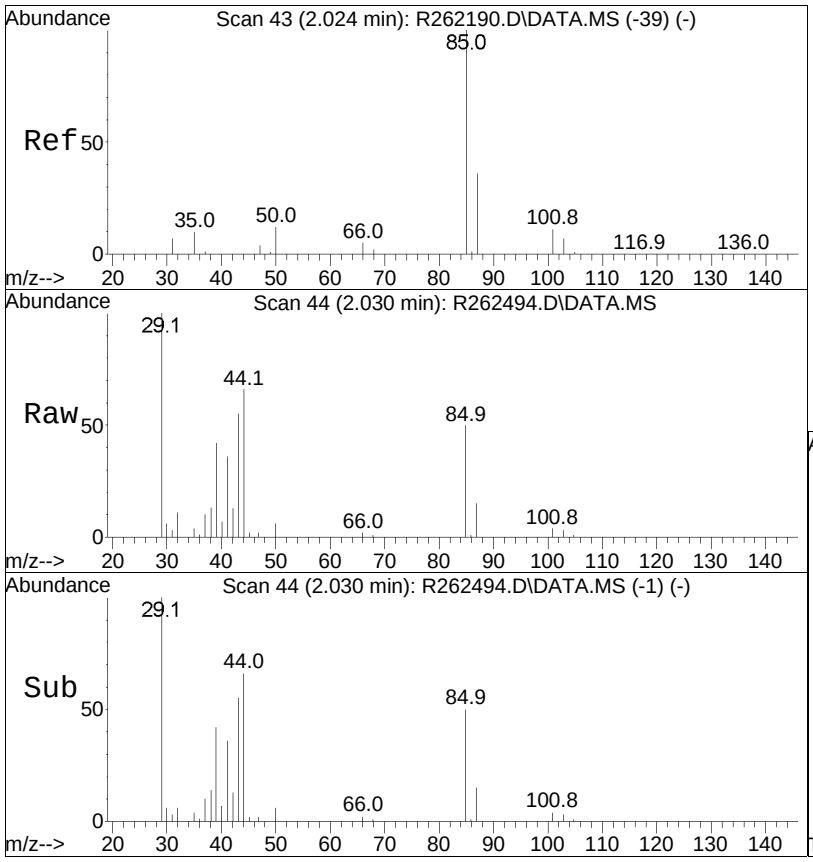
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262494.D
Acq On : 27 Mar 2025 09:42 pm
Operator : AIRLAB26:TPH
Sample : L2514968-04,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 06:49:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

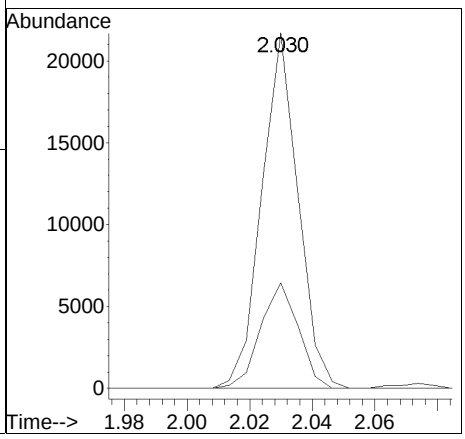


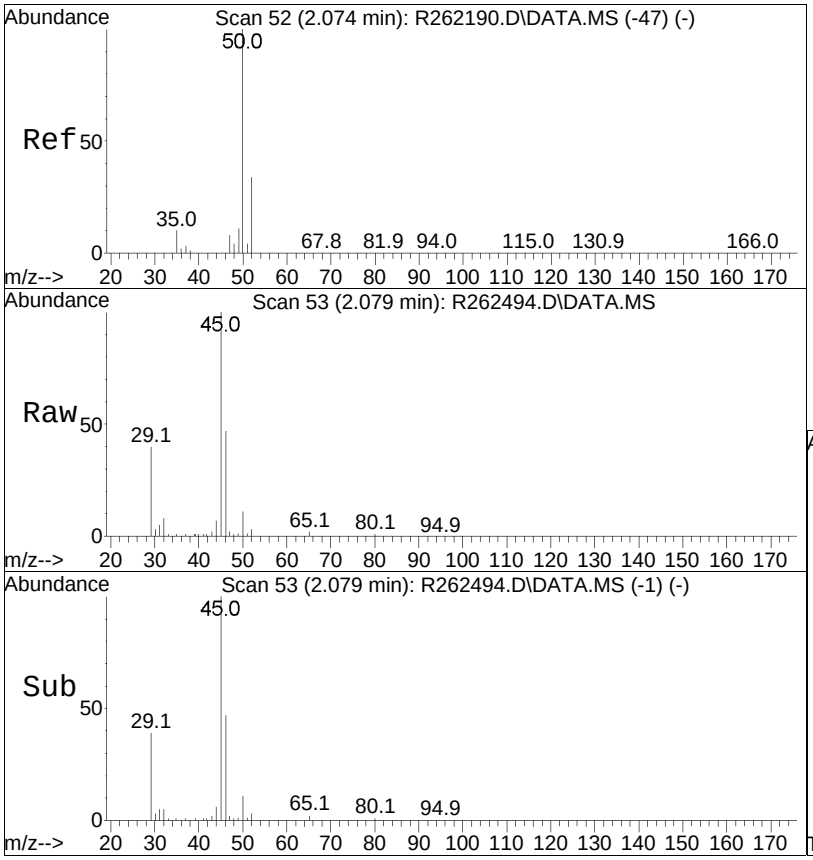


#5
dichlorodifluoromethane
Concen: 0.53 ppbV
RT: 2.030 min Scan# 44
Delta R.T. 0.006 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 85 Resp: 17530

Ion	Ratio	Lower	Upper
85	100		
87	29.8	26.4	39.6

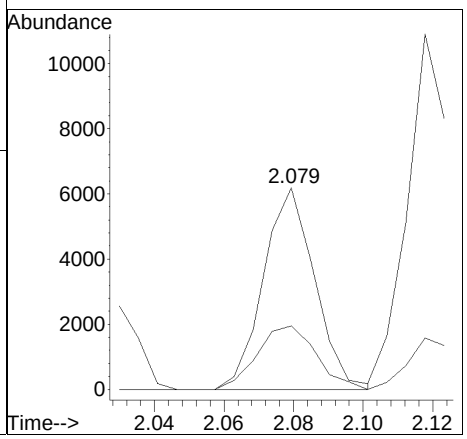


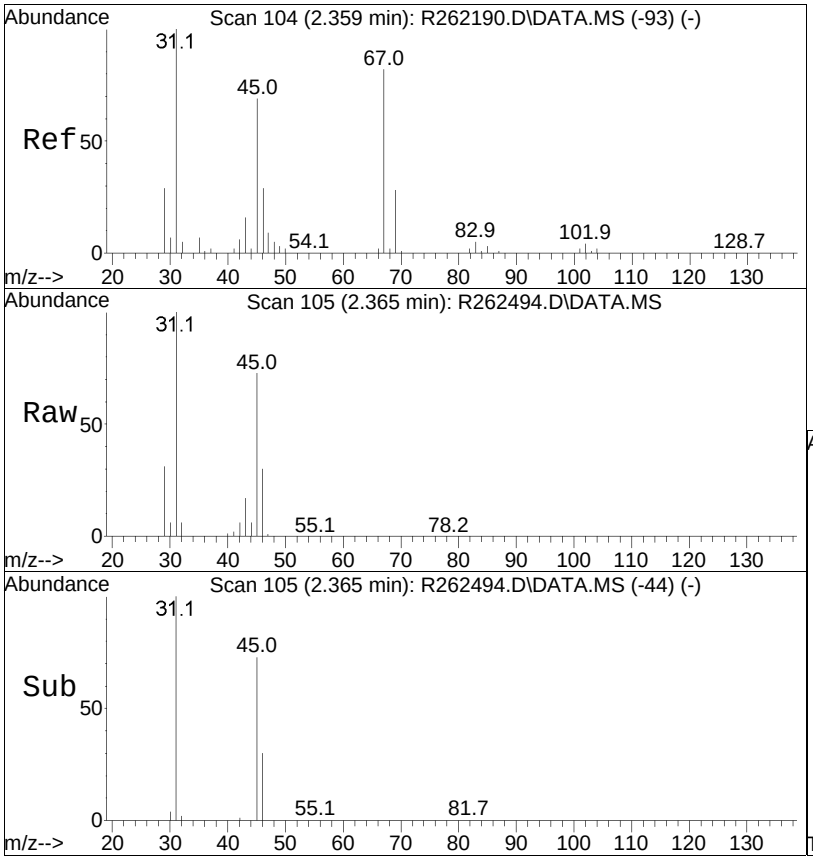


#6
chloromethane
Concen: 0.55 ppbV
RT: 2.079 min Scan# 53
Delta R.T. 0.006 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 50 Resp: 6330

Ion	Ratio	Lower	Upper
50	100		
52	31.5	25.6	38.4

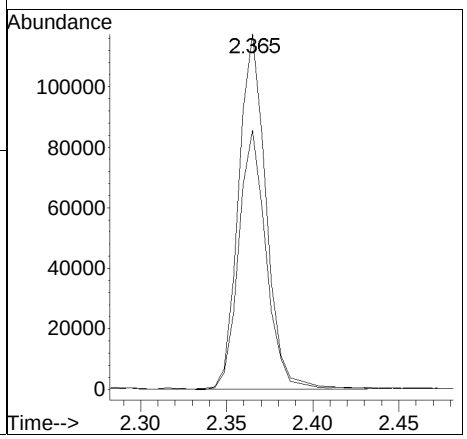


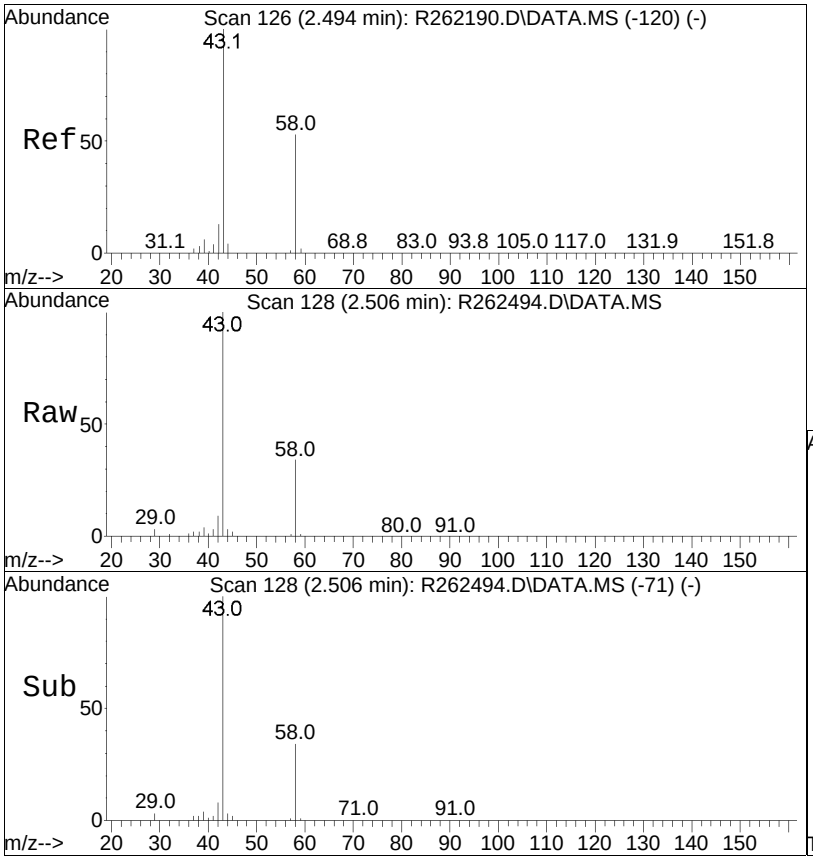


#15
ethanol
Concen: 17.24 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.006 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 31 Resp: 146065

Ion	Ratio	Lower	Upper
31	100		
45	72.9	55.4	83.2

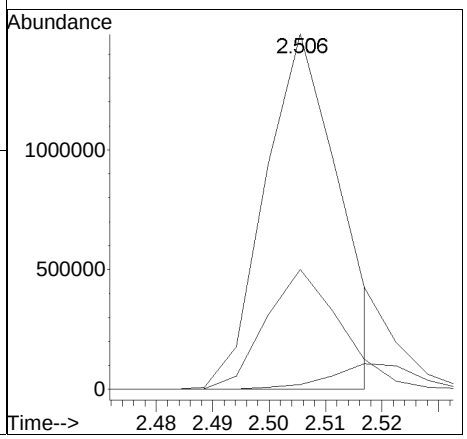


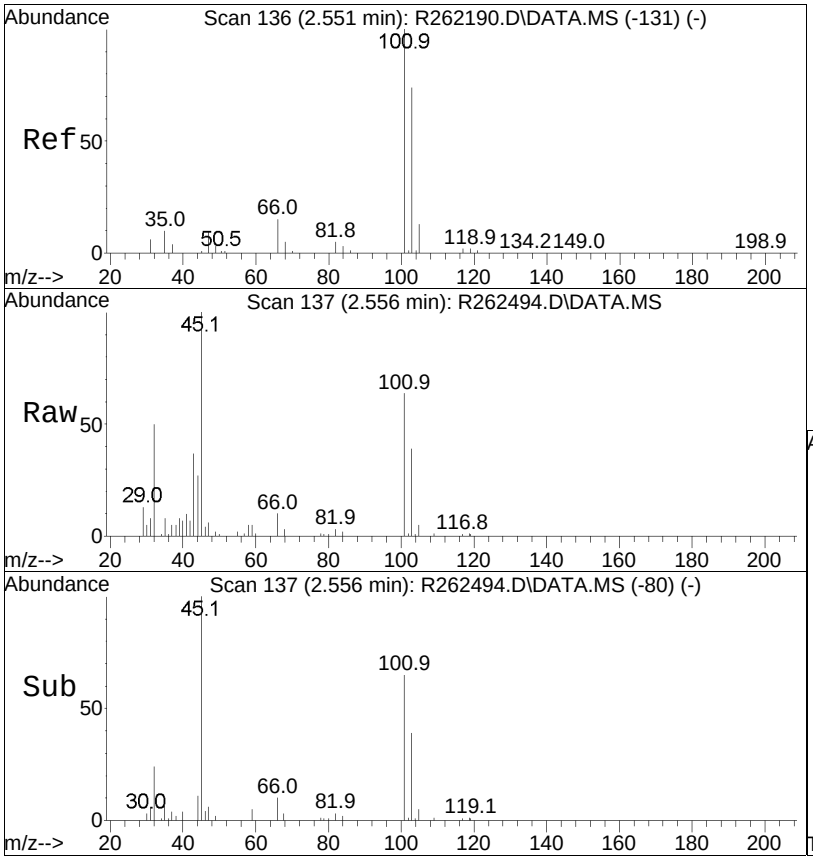


#19
acetone
Concen: 61.09 ppbV m
RT: 2.506 min Scan# 128
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 43 Resp: 1361262

Ion	Ratio	Lower	Upper
43	100		
58	33.8	26.7	40.1
57	1.4	0.7	1.1#

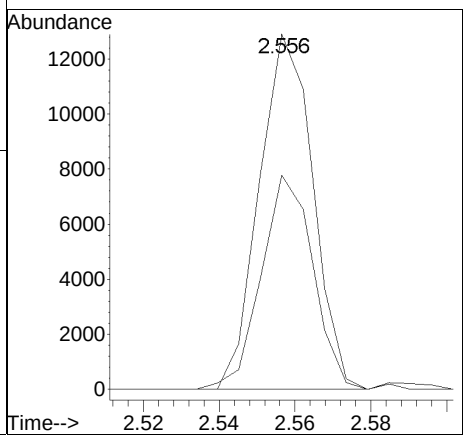


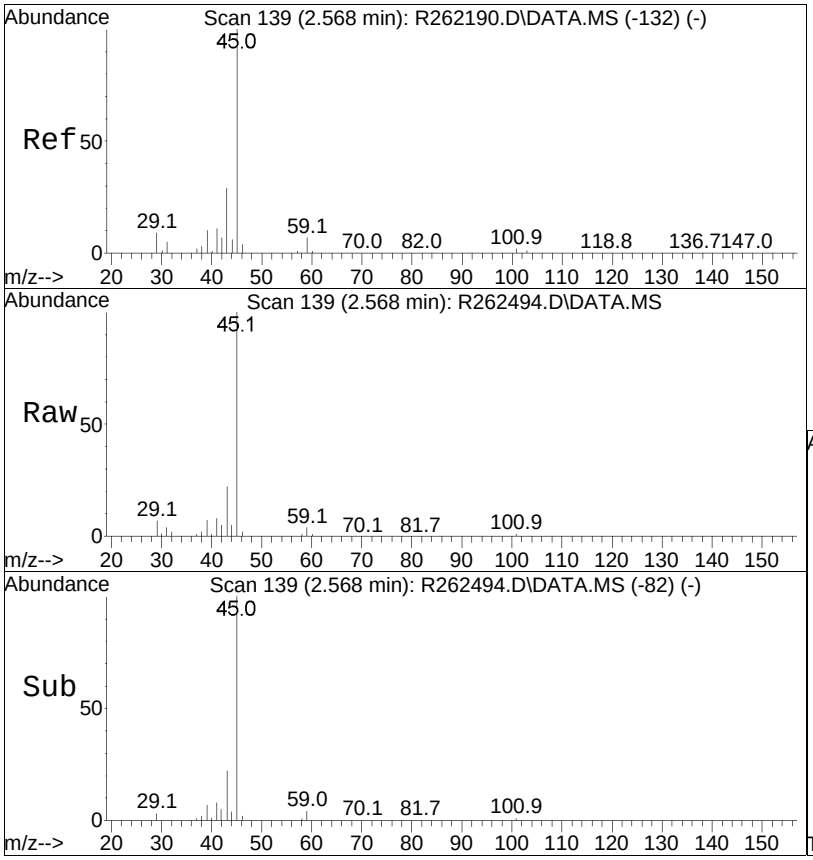


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 2.556 min Scan# 137
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:101 Resp: 12675

Ion	Ratio	Lower	Upper
101	100		
103	60.3	51.7	77.5

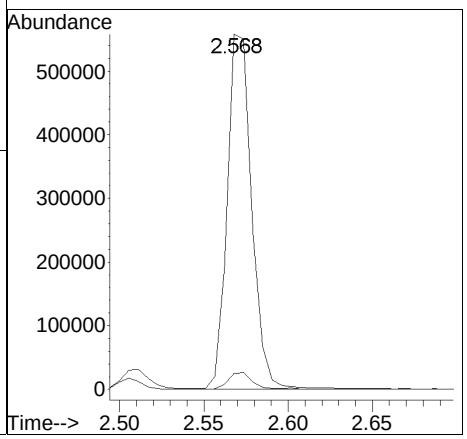


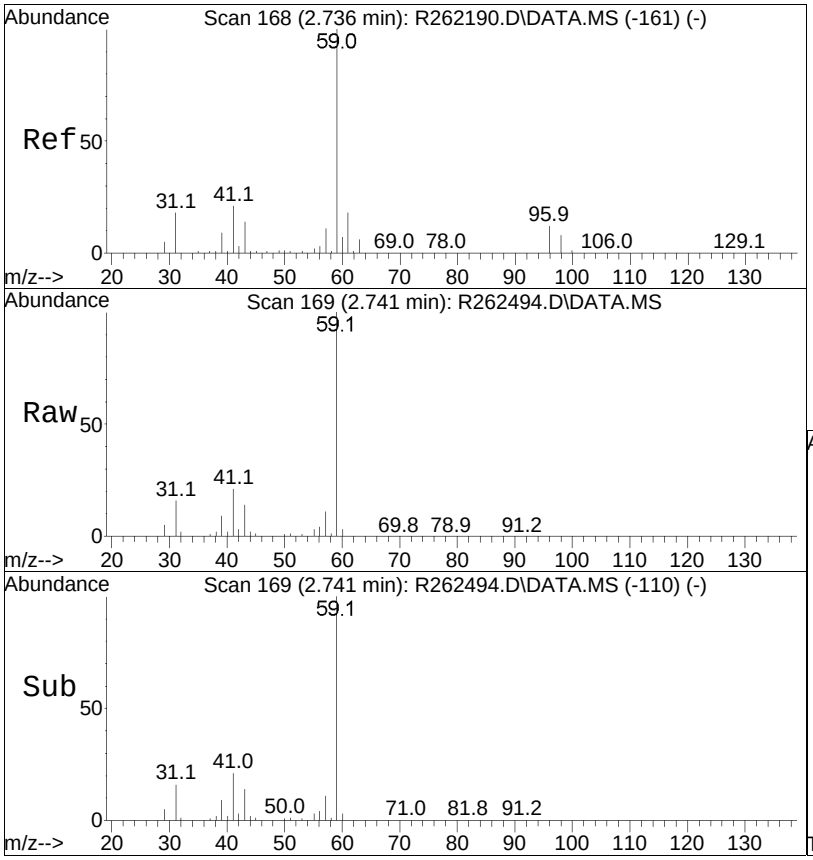


#22
isopropyl alcohol
Concen: 21.12 ppbV
RT: 2.568 min Scan# 139
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 45 Resp: 563440

Ion	Ratio	Lower	Upper
45	100		
59	4.5	3.5	5.3

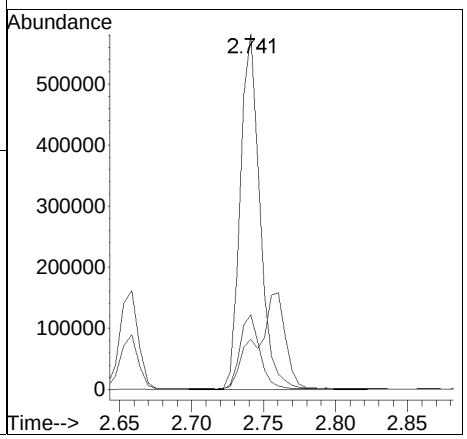


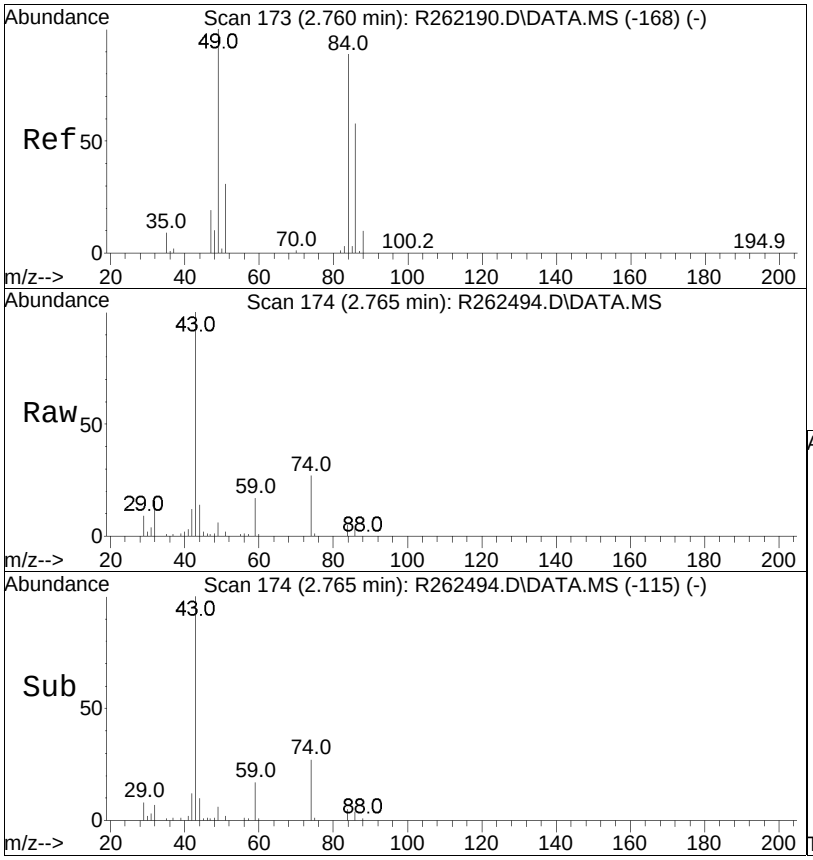


#27
tertiary butyl alcohol
Concen: 11.71 ppbV
RT: 2.741 min Scan# 169
Delta R.T. 0.005 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 59 Resp: 554199

Ion	Ratio	Lower	Upper
59	100		
41	21.0	16.5	24.7
43	14.1	10.8	16.2

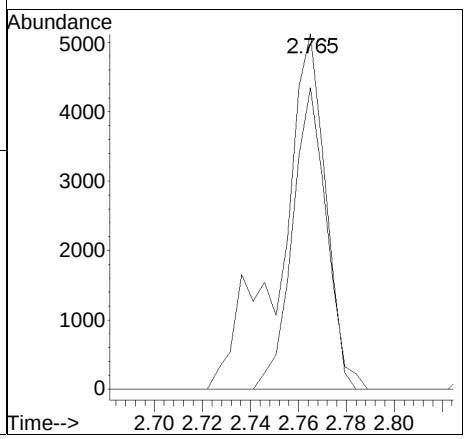


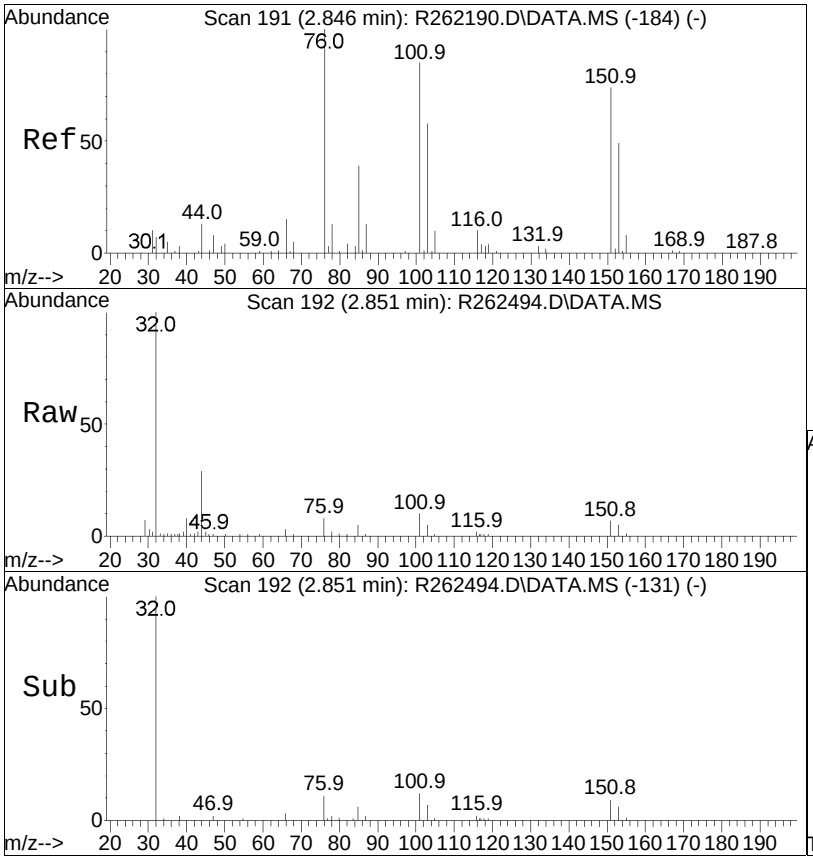


#28
methylene chloride
Concen: 0.28 ppbV
RT: 2.765 min Scan# 174
Delta R.T. 0.005 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 49 Resp: 6706

Ion	Ratio	Lower	Upper
49	100		
84	84.9	67.1	100.7

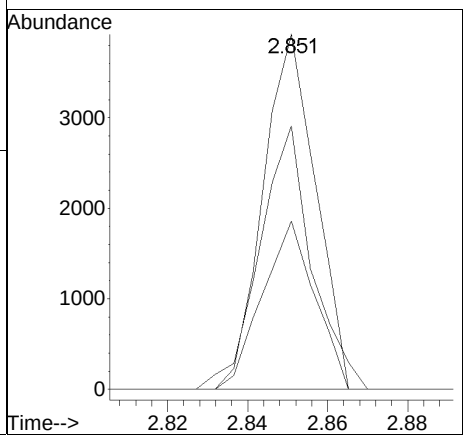


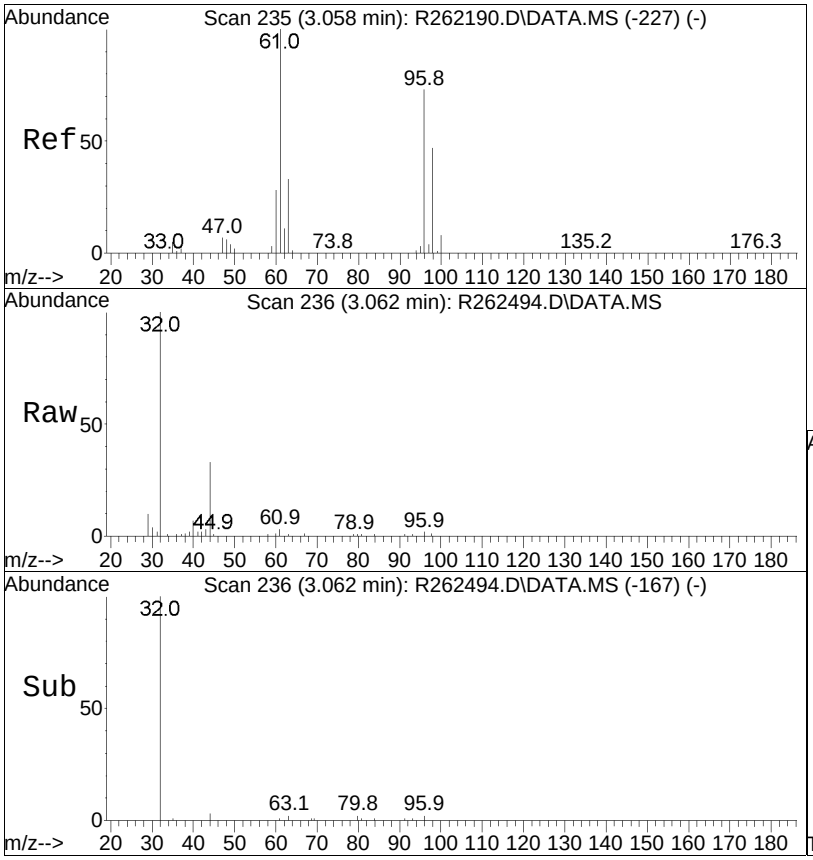


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:101 Resp: 3580

Ion	Ratio	Lower	Upper
101	100		
85	47.4	34.0	51.0
151	74.2	64.4	96.6

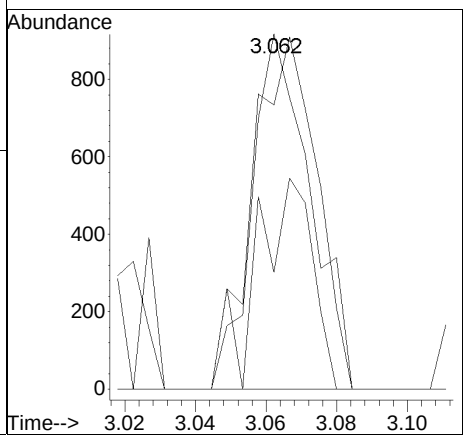


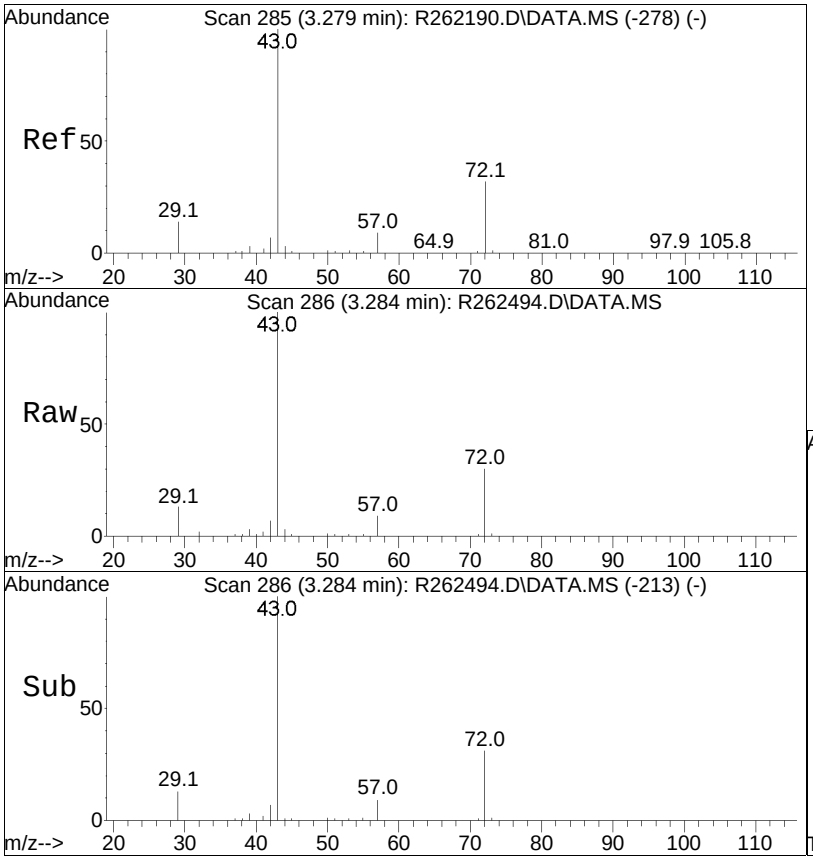


#32
trans-1,2-dichloroethene
Concen: 0.04 ppbV
RT: 3.062 min Scan# 236
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 61 Resp: 1058

Ion	Ratio	Lower	Upper
61	100		
96	80.0	57.2	85.8
98	32.9	36.0	54.0#

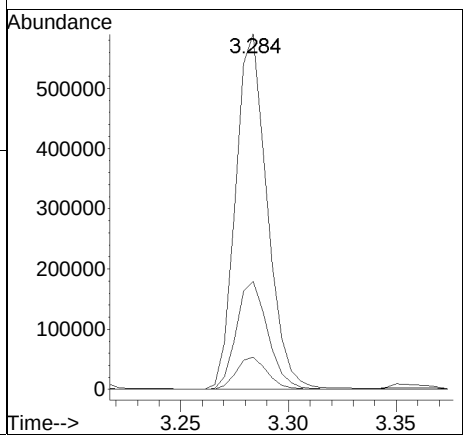


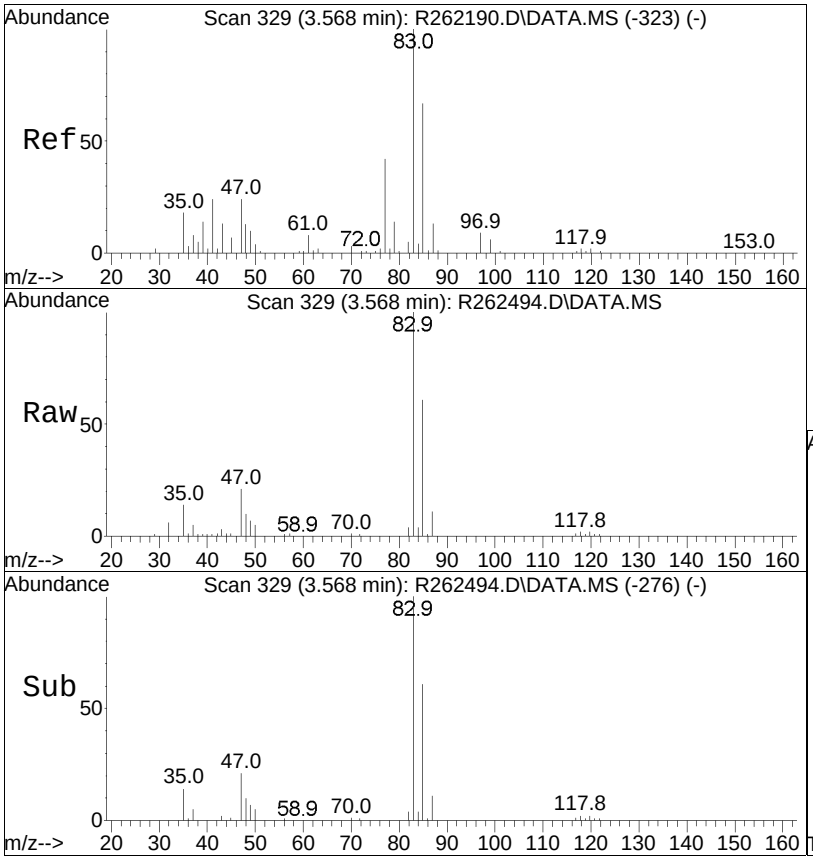


#36
2-butanone
Concen: 29.04 ppbV
RT: 3.284 min Scan# 286
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 43 Resp: 600941

Ion	Ratio	Lower	Upper
43	100		
72	30.5	24.5	36.7
57	9.1	7.0	10.6

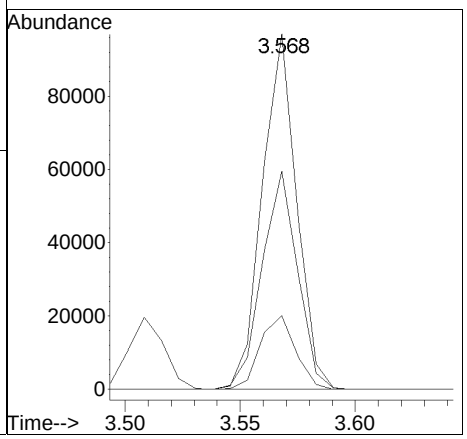


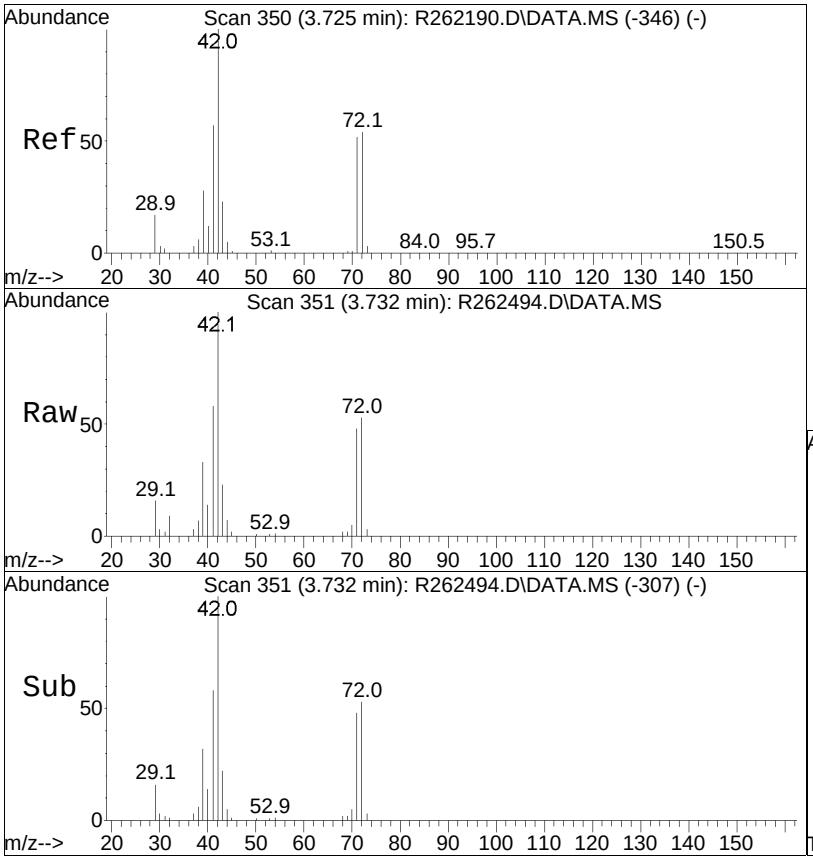


#39
chloroform
Concen: 3.22 ppbV
RT: 3.568 min Scan# 329
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 83 Resp: 100915

Ion	Ratio	Lower	Upper
83	100		
85	61.4	53.0	79.4
47	20.7	18.2	27.4

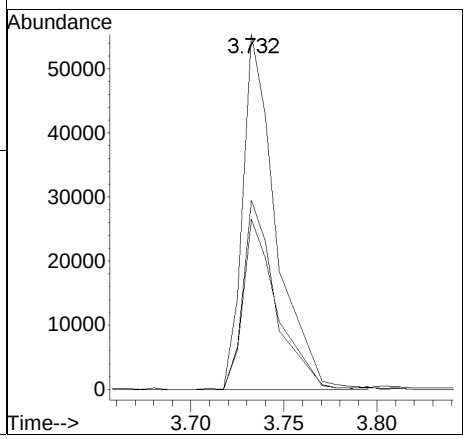


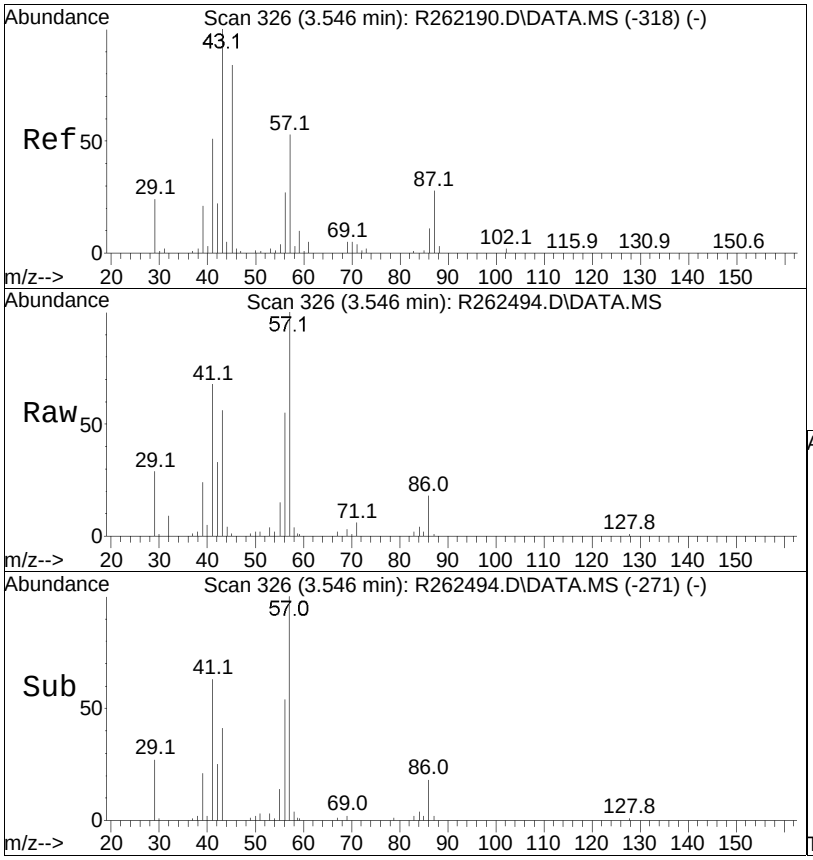


#40
Tetrahydrofuran
Concen: 7.48 ppbV
RT: 3.732 min Scan# 351
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 42 Resp: 74127

Ion	Ratio	Lower	Upper
42	100		
71	47.9	38.2	57.4
72	53.2	43.9	65.9

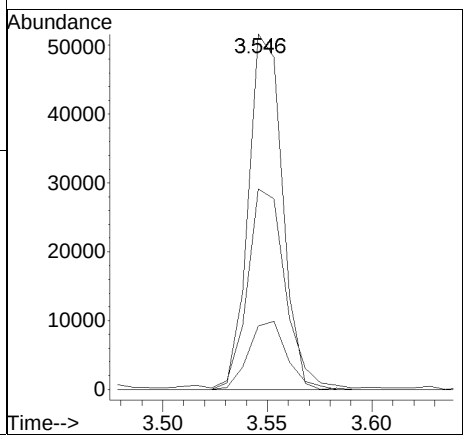


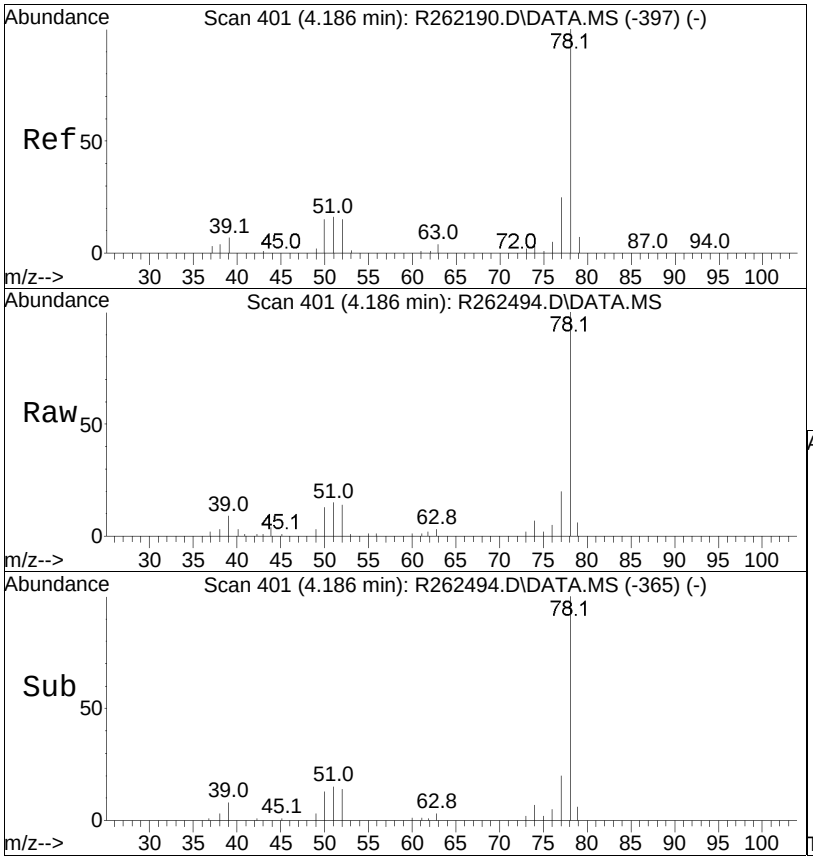


#44
hexane
Concen: 3.53 ppbV
RT: 3.546 min Scan# 326
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 57 Resp: 58100

Ion	Ratio	Lower	Upper
57	100		
43	56.4	161.1	241.7#
86	17.8	16.2	24.4

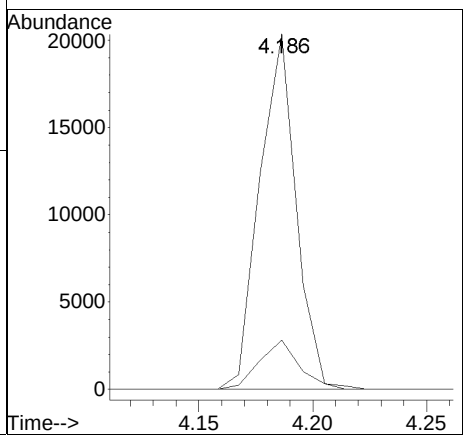


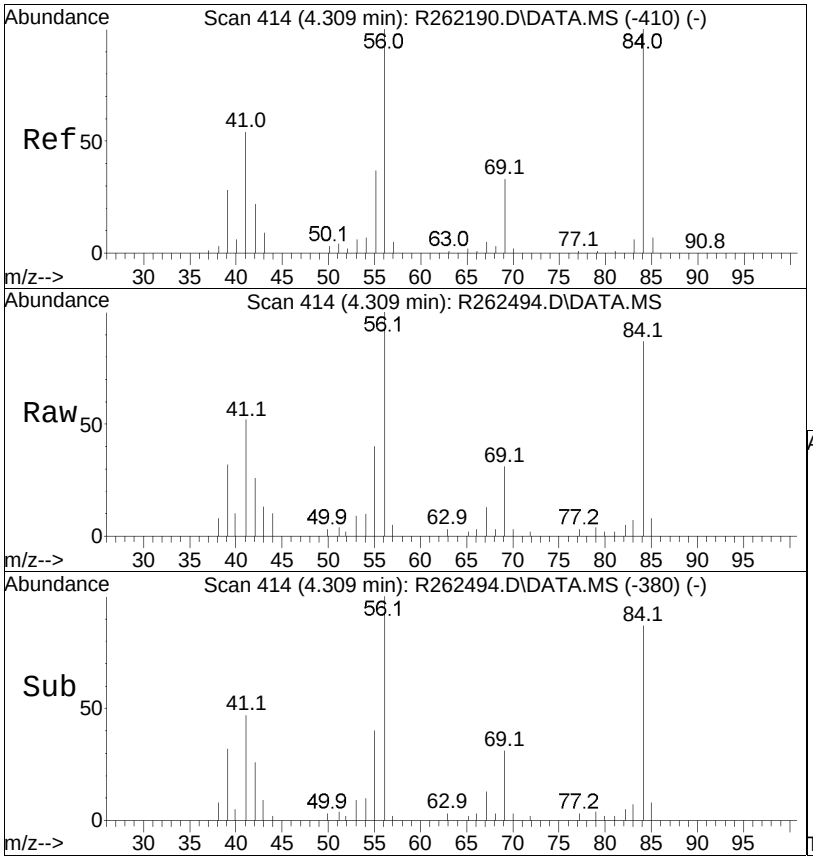


#50
benzene
Concen: 0.54 ppbV
RT: 4.186 min Scan# 401
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 78 Resp: 22582

Ion	Ratio	Lower	Upper
78	100		
52	13.9	10.8	16.2

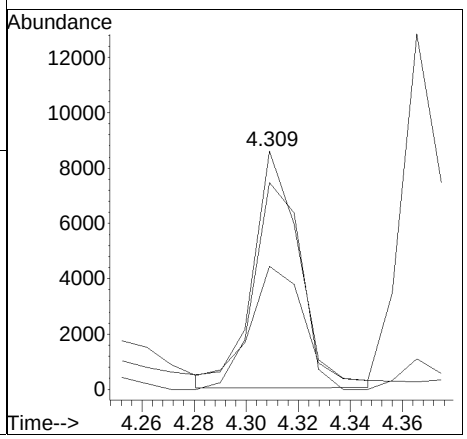


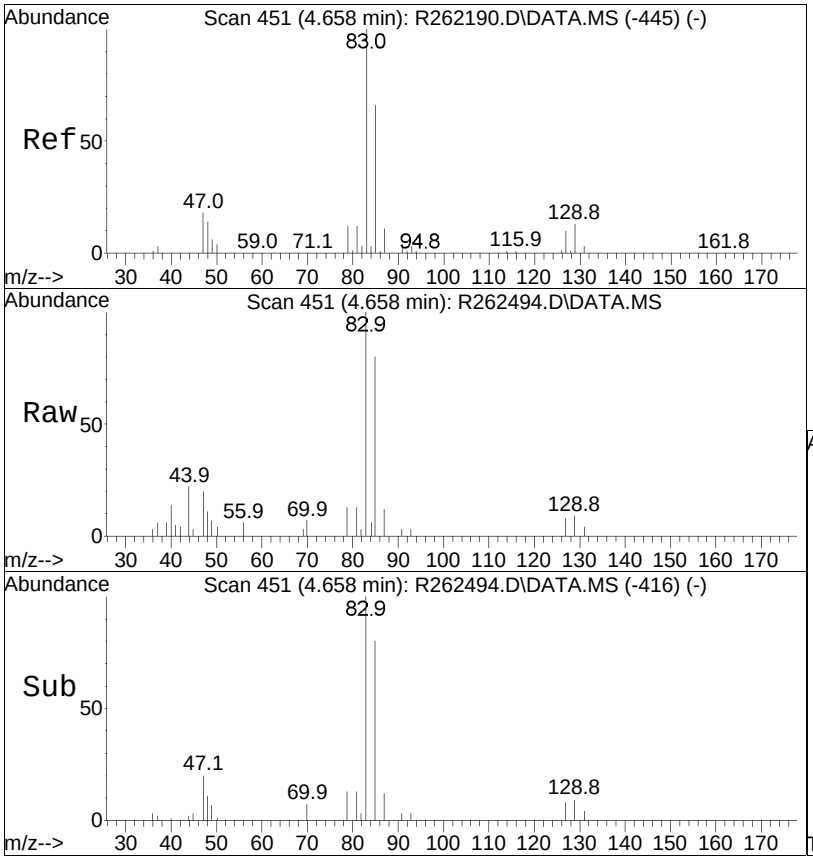


#53
cyclohexane
Concen: 0.64 ppbV
RT: 4.309 min Scan# 414
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 56 Resp: 10622

Ion	Ratio	Lower	Upper
56	100		
84	86.8	75.0	112.4
41	51.6	43.1	64.7

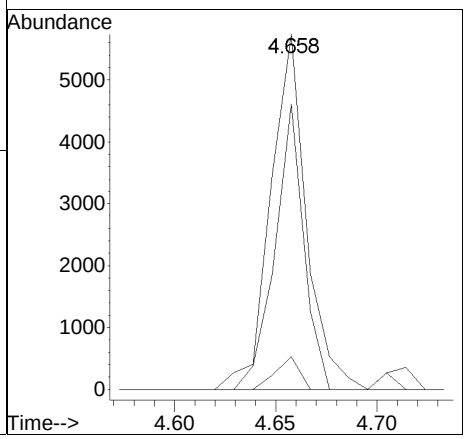


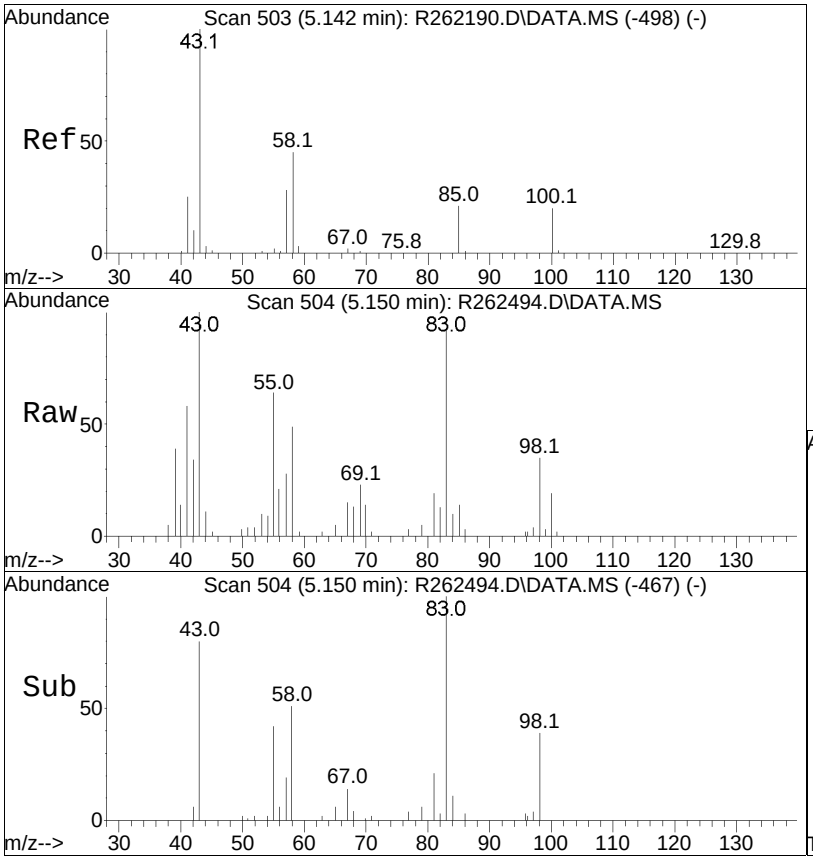


#57
bromodichloromethane
Concen: 0.25 ppbV
RT: 4.658 min Scan# 451
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 83 Resp: 7049

Ion	Ratio	Lower	Upper
83	100		
85	80.3	54.1	81.1
129	9.2	10.1	15.1#

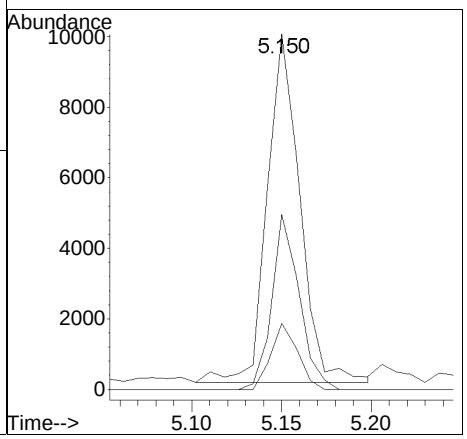


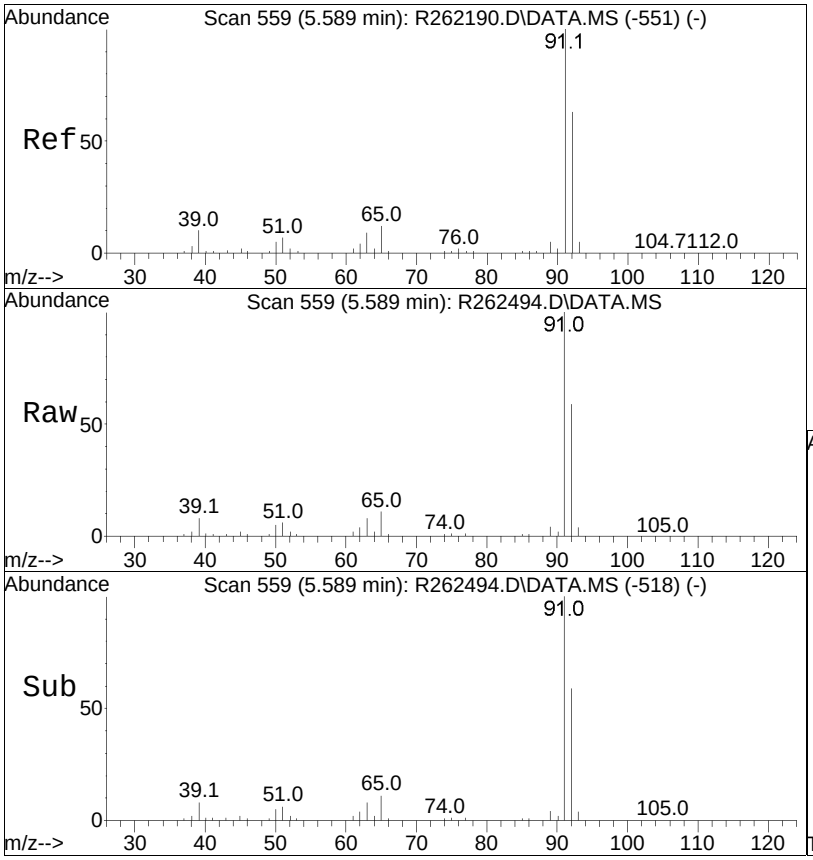


#64
4-methyl-2-pentanone
Concen: 0.56 ppbV
RT: 5.150 min Scan# 504
Delta R.T. 0.008 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 43 Resp: 12535

Ion	Ratio	Lower	Upper
43	100		
58	49.2	34.0	51.0
100	18.6	14.5	21.7

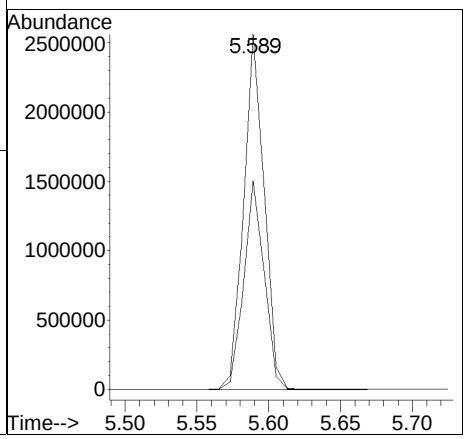


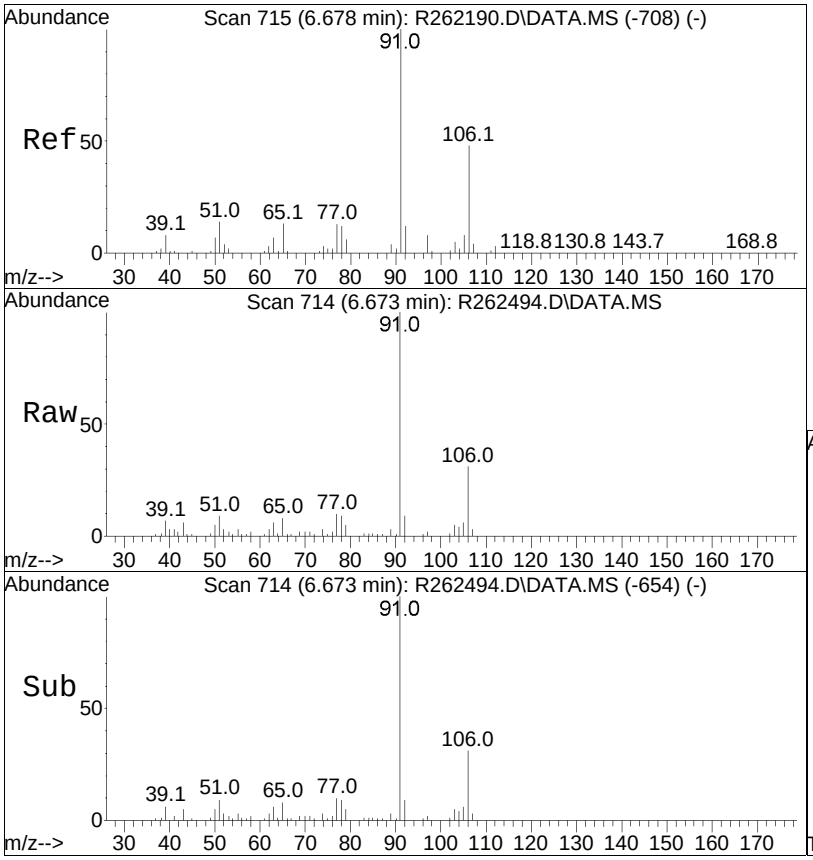


#68
toluene
Concen: 47.62 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 91 Resp: 2547167

Ion	Ratio	Lower	Upper
91	100		
92	58.8	46.4	69.6

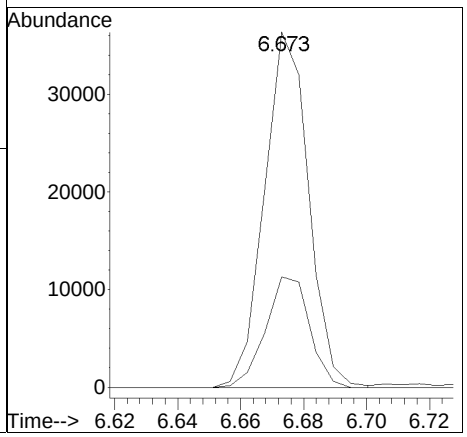


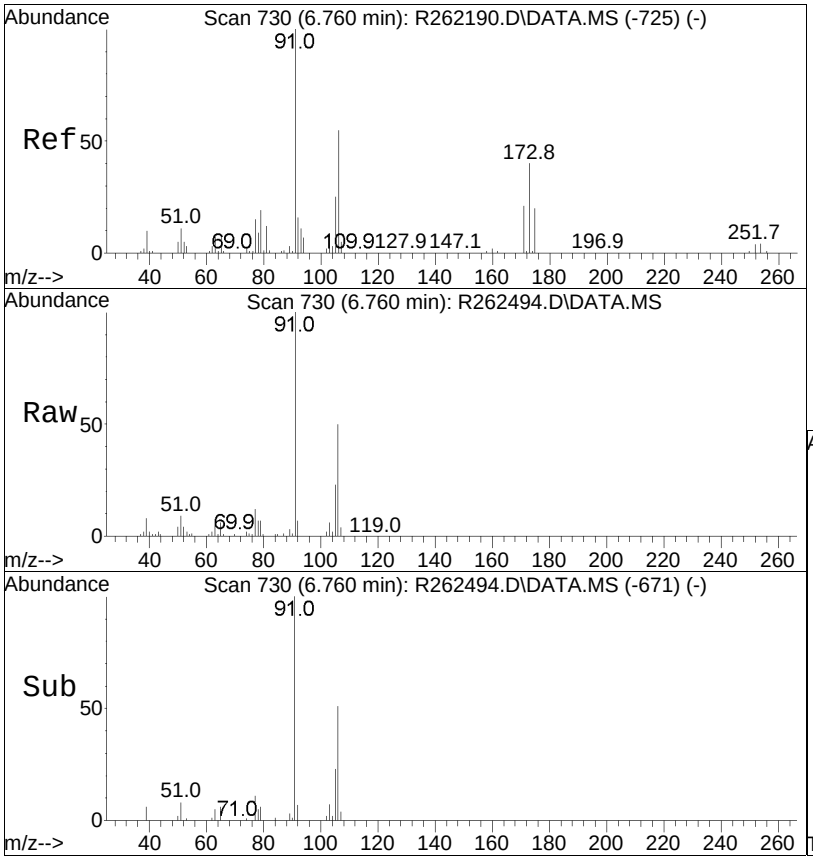


#81
ethylbenzene
Concen: 0.53 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 91 Resp: 35353

Ion	Ratio	Lower	Upper
91	100		
106	31.1	25.3	37.9

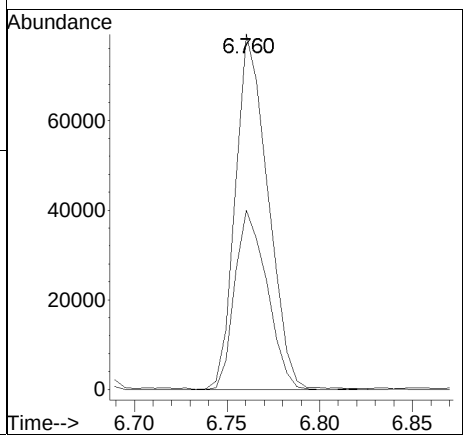


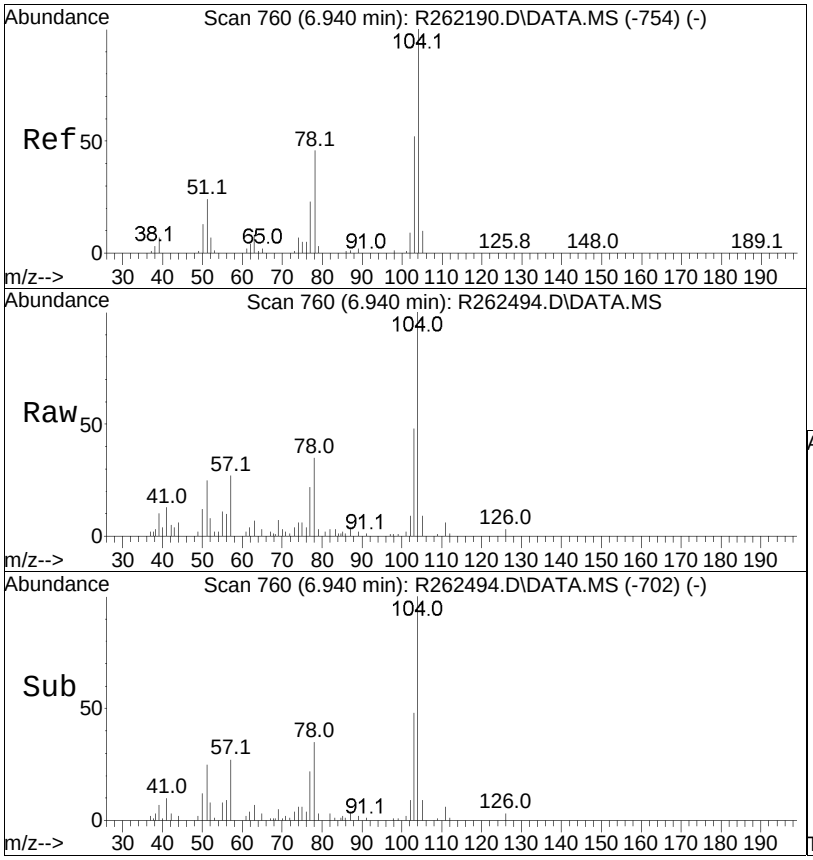


#83
m+p-xylene
Concen: 1.80 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 91 Resp: 97011

Ion	Ratio	Lower	Upper
91	100		
106	50.4	38.6	57.8

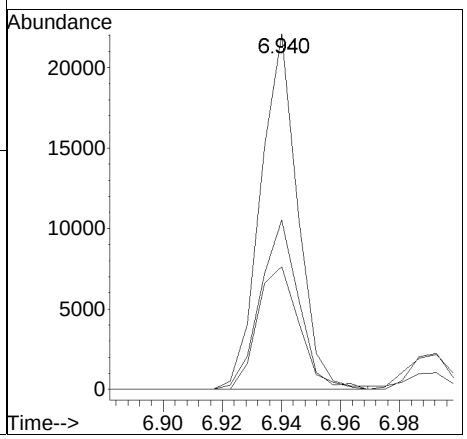


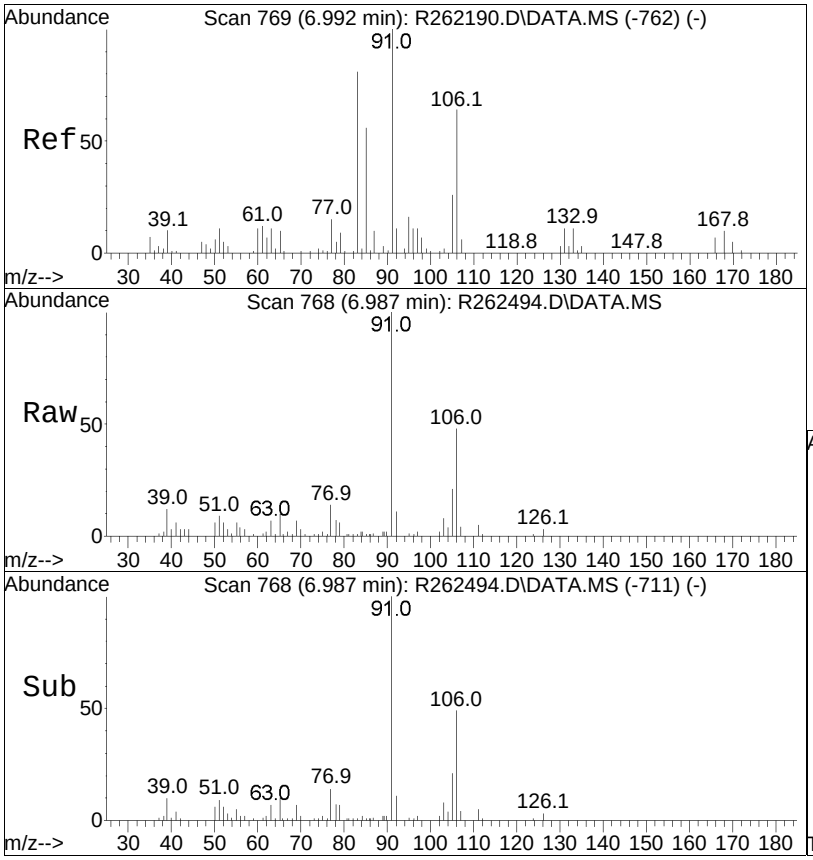


#85
styrene
Concen: 0.49 ppbV
RT: 6.940 min Scan# 760
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:104 Resp: 19378

Ion	Ratio	Lower	Upper
104	100		
103	47.7	38.0	57.0
78	34.6	30.8	46.2

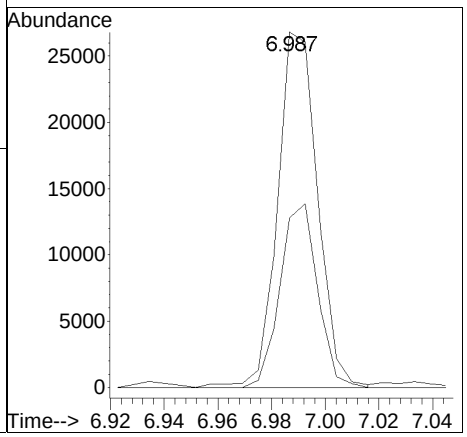


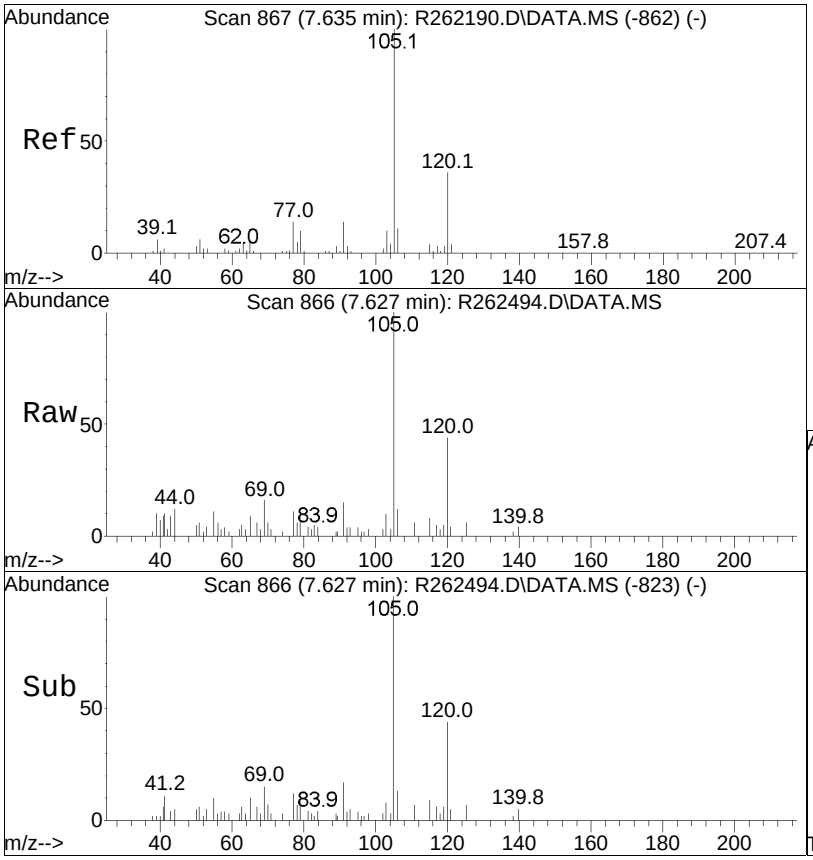


#87
o-xylene
Concen: 0.51 ppbV
RT: 6.987 min Scan# 768
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 91 Resp: 27772

Ion	Ratio	Lower	Upper
91	100		
106	47.7	39.2	58.8

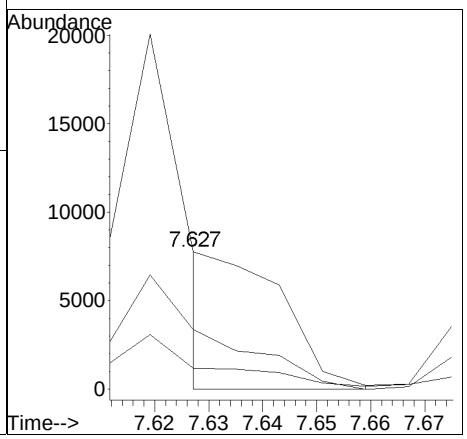


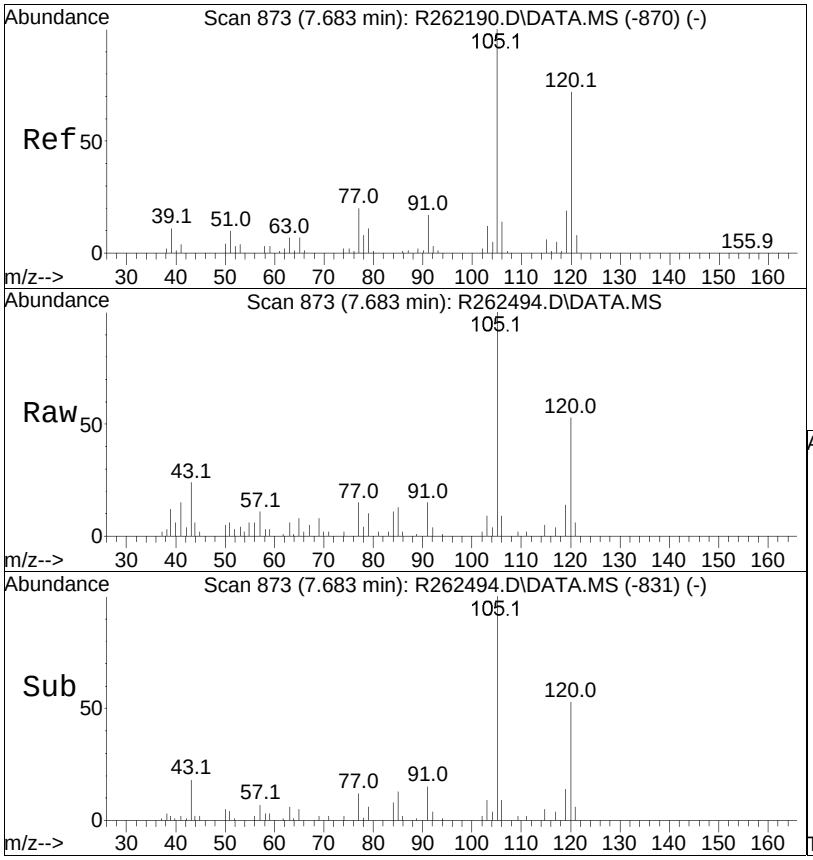


#96
4-ethyl toluene
Concen: 0.11 ppbV m
RT: 7.627 min Scan# 866
Delta R.T. -0.008 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:105 Resp: 6768

Ion	Ratio	Lower	Upper
105	100		
120	43.5	24.4	36.6#
91	15.5	8.8	13.2#

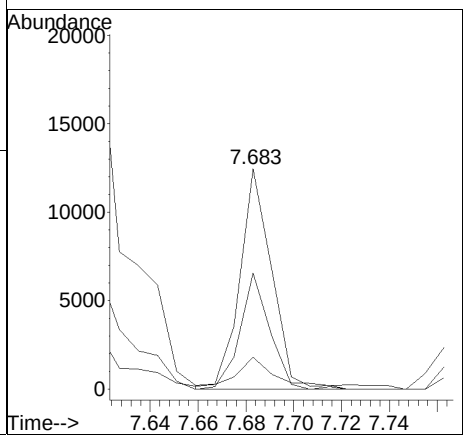


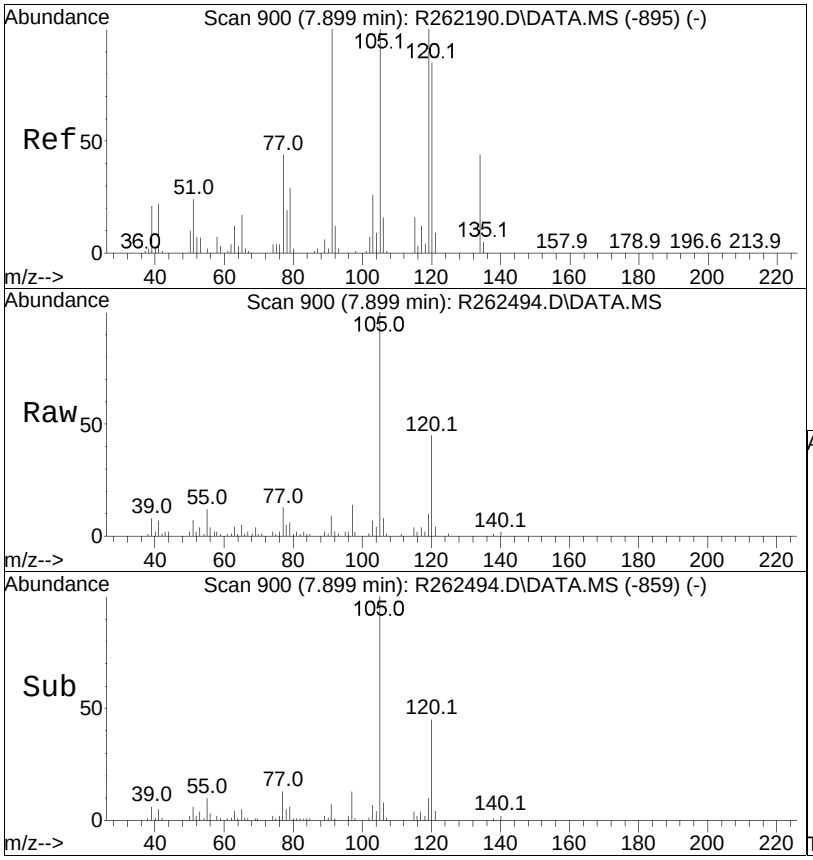


#97
1,3,5-trimethylbenzene
Concen: 0.19 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:105 Resp: 11540

Ion	Ratio	Lower	Upper
105	100		
120	52.8	40.1	60.1
91	14.6	8.4	12.6#

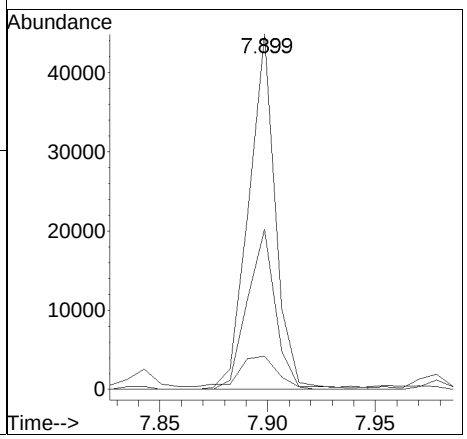


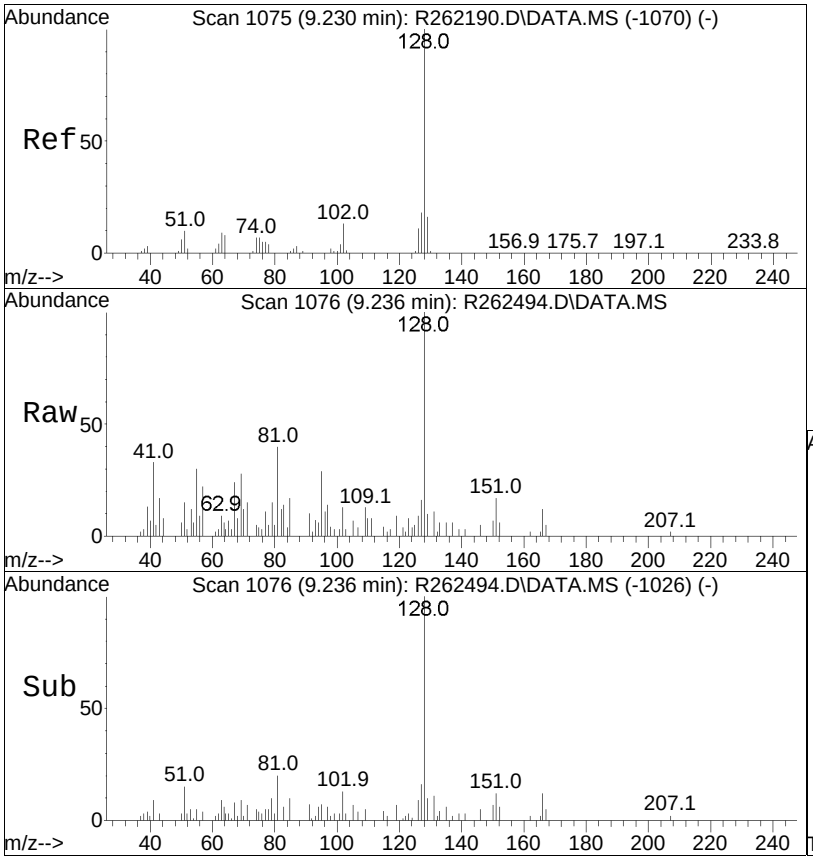


#99
1,2,4-trimethylbenzene
Concen: 0.61 ppbV
RT: 7.899 min Scan# 900
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:105 Resp: 39174

Ion	Ratio	Lower	Upper
105	100		
120	45.1	43.6	65.4
91	9.4	37.5	56.3#

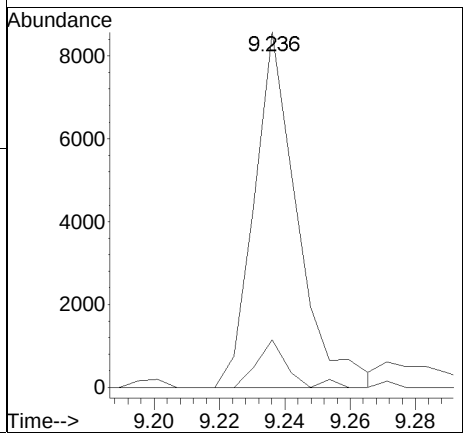




#116
naphthalene
Concen: 0.08 ppbV
RT: 9.236 min Scan# 1076
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:128 Resp: 7868

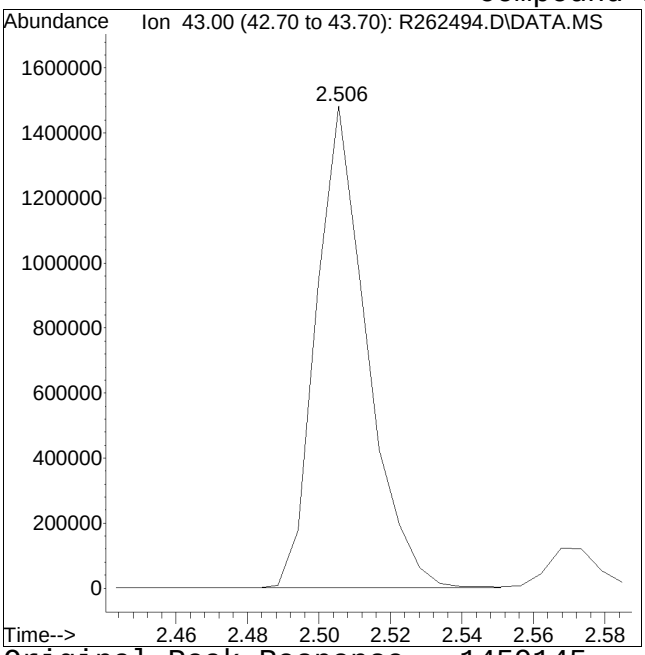
Ion	Ratio	Lower	Upper
128	100		
102	13.4	6.4	9.6#



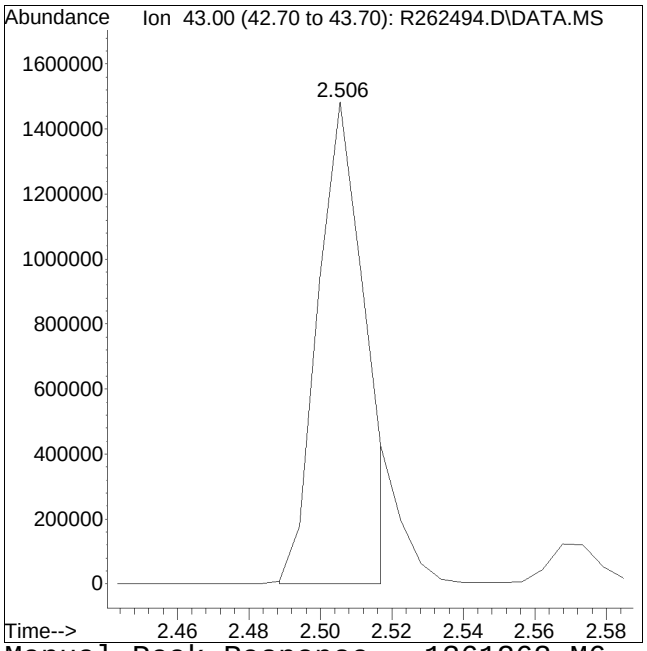
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262494.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 9:42 pm Instrument : Airlab26
Sample : L2514968-04,3,250,250 Quant Date : 3/28/2025 6:49 am

Compound #19: acetone



Original Peak Response = 1459145



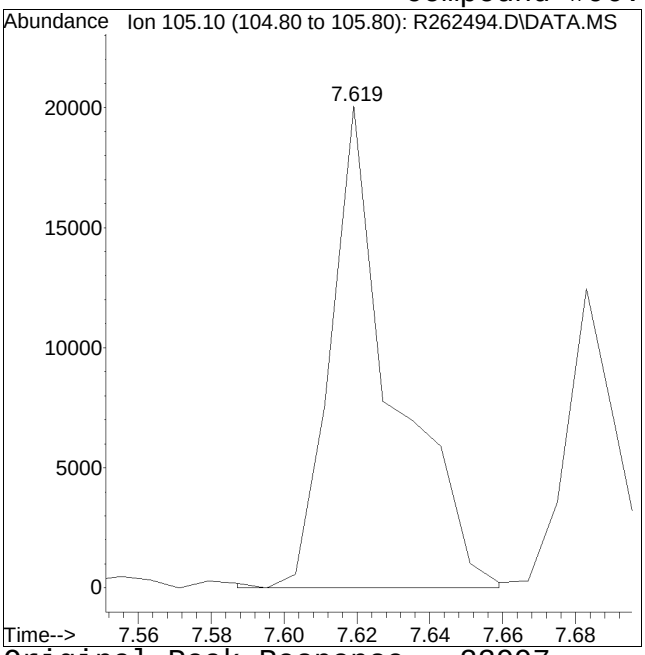
Manual Peak Response = 1361262 M6

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

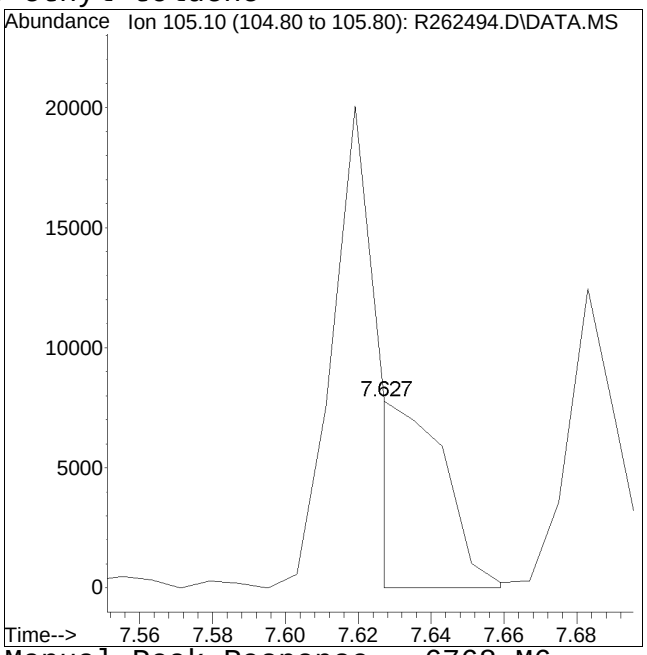
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262494.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 9:42 pm Instrument : Airlab26
Sample : L2514968-04,3,250,250 Quant Date : 3/28/2025 6:49 am

Compound #96: 4-ethyl toluene



Original Peak Response = 23997



Manual Peak Response = 6768 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262495.D
Acq On : 27 Mar 2025 10:16 pm
Operator : AIRLAB26:TPH
Sample : L2514968-05D,3,122.5,250
Misc : WG2046188,ICAL22092
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 06:50:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.508	49	185085	10.000	ppbV		0.00
Standard Area = 175168			Recovery = 105.66%				
43) 1,4-difluorobenzene	4.365	114	612837	10.000	ppbV		0.00
Standard Area = 612528			Recovery = 100.05%				
67) chlorobenzene-D5	6.449	54	97474	10.000	ppbV		0.00
Standard Area = 94640			Recovery = 102.99%				
System Monitoring Compounds							
Target Compounds							Qvalue
5) dichlorodifluoromethane	2.024	85	8228	0.251	ppbV		99
6) chloromethane	2.074	50	3964	0.347	ppbV		95
7) Freon-114	2.107		0	N.D.			
10) 1,3-butadiene	0.000		0	N.D.	d		
13) bromomethane	2.271		0	N.D.			
14) chloroethane	0.000		0	N.D.			
15) ethanol	2.359	31	113572	13.563	ppbV		95
17) vinyl bromide	2.415		0	N.D.			
19) acetone	2.505	43	545993	24.796	ppbV	#	99
21) trichlorofluoromethane	2.556	101	6053	0.105	ppbV		98
22) isopropyl alcohol	2.573	45	86192	3.270	ppbV		99
27) tertiary butyl alcohol	2.741	59	84979	1.817	ppbV	#	96
28) methylene chloride	2.760	49	3217	0.134	ppbV		83
29) 3-chloropropene	0.000		0	N.D.	d		
30) carbon disulfide	2.846		0	N.D.			
31) Freon 113	2.851	101	1747	0.036	ppbV	#	82
32) trans-1,2-dichloroethene	3.067		0	N.D.			
33) 1,1-dichloroethane	3.133		0	N.D.			
34) MTBE	3.155		0	N.D.			
36) 2-butanone	3.283	43	319046	15.600	ppbV		97
38) Ethyl Acetate	3.560	61	502	0.119	ppbV	#	33
39) chloroform	3.568		0	N.D.			
40) Tetrahydrofuran	3.747	42	1203	0.123	ppbV	#	67
42) 1,2-dichloroethane	3.868		0	N.D.			
44) hexane	3.546	57	6144	0.381	ppbV	#	13
50) benzene	4.186	78	11739	0.288	ppbV	#	90
53) cyclohexane	4.309	56	21394	1.322	ppbV		96
56) 1,2-dichloropropane	0.000		0	N.D.			

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262495.D
Acq On : 27 Mar 2025 10:16 pm
Operator : AIRLAB26:TPH
Sample : L2514968-05D,3,122.5,250
Misc : WG2046188,ICAL22092
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 06:50:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

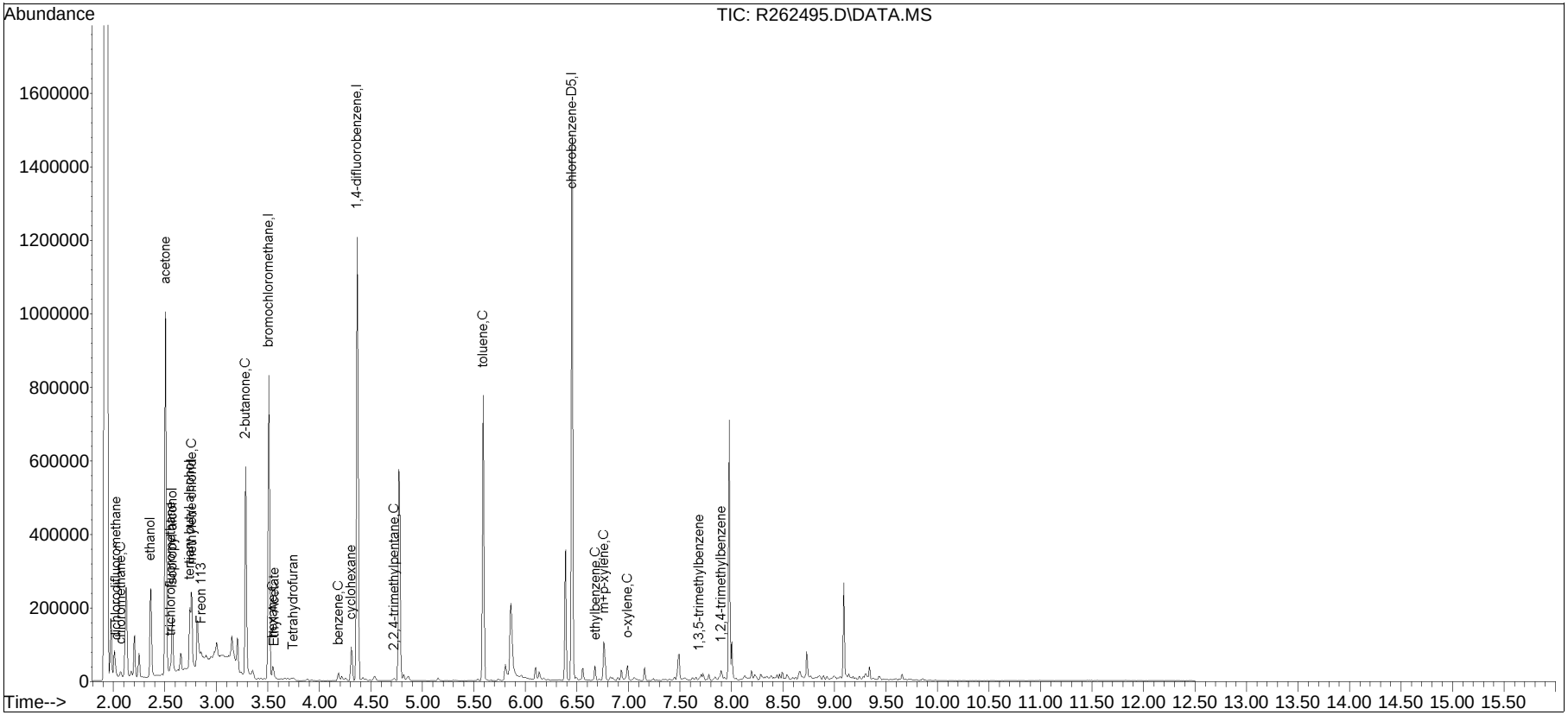
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	4.497		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.723	57	3208	0.063	ppbV #	76
62) heptane	0.000		0	N.D. d		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	321642	6.222	ppbV	99
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	5.780		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	6.476		0	N.D.		
81) ethylbenzene	6.678	91	15388	0.237	ppbV	93
83) m+p-xylene	6.760	91	45033	0.862	ppbV	97
84) bromoform	0.000		0	N.D.		
85) styrene	6.940		0	N.D.		
86) 1,1,2,2-tetrachloroethane	6.992		0	N.D.		
87) o-xylene	6.992	91	12900	0.246	ppbV	95
96) 4-ethyl toluene	7.635		0	N.D.		
97) 1,3,5-trimethylbenzene	7.683	105	1978	0.034	ppbV #	81
99) 1,2,4-trimethylbenzene	7.898	105	6072	0.098	ppbV #	66
101) Benzyl Chloride	7.946		0	N.D.		
102) 1,3-dichlorobenzene	7.978		0	N.D.		
103) 1,4-dichlorobenzene	7.978		0	N.D.		
107) 1,2-dichlorobenzene	8.186		0	N.D.		
115) 1,2,4-trichlorobenzene	9.090		0	N.D.		
116) naphthalene	9.242		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

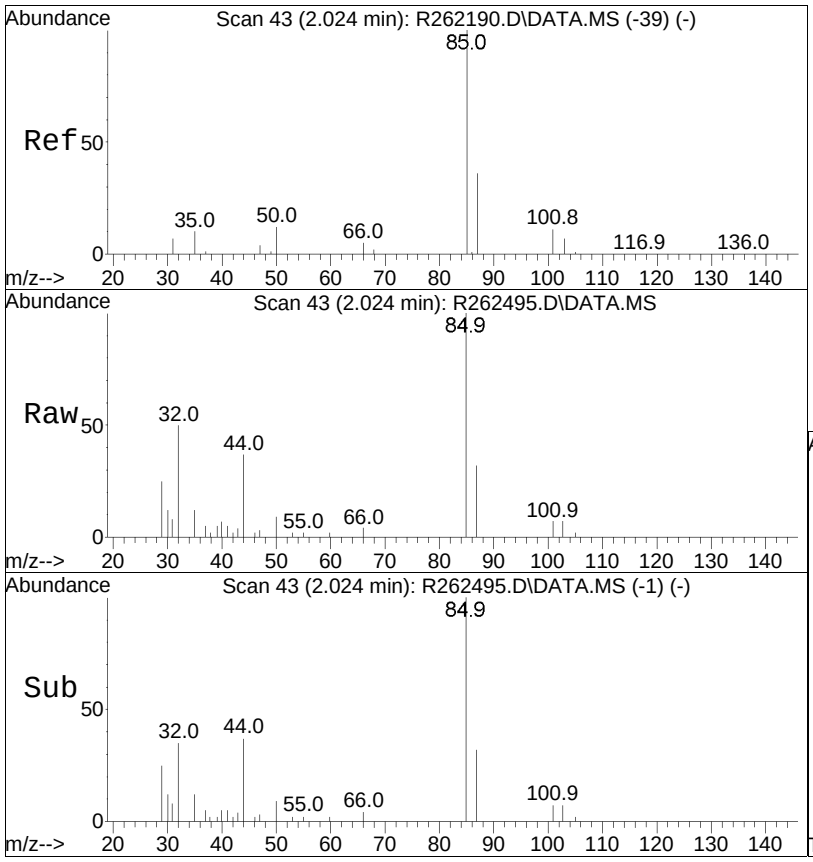
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262495.D
Acq On : 27 Mar 2025 10:16 pm
Operator : AIRLAB26:TPH
Sample : L2514968-05D,3,122.5,250
Misc : WG2046188,ICAL22092
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 06:50:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

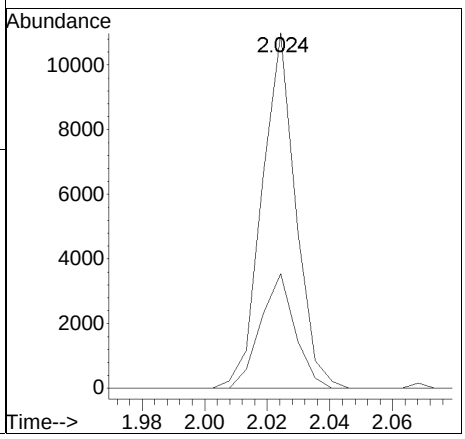


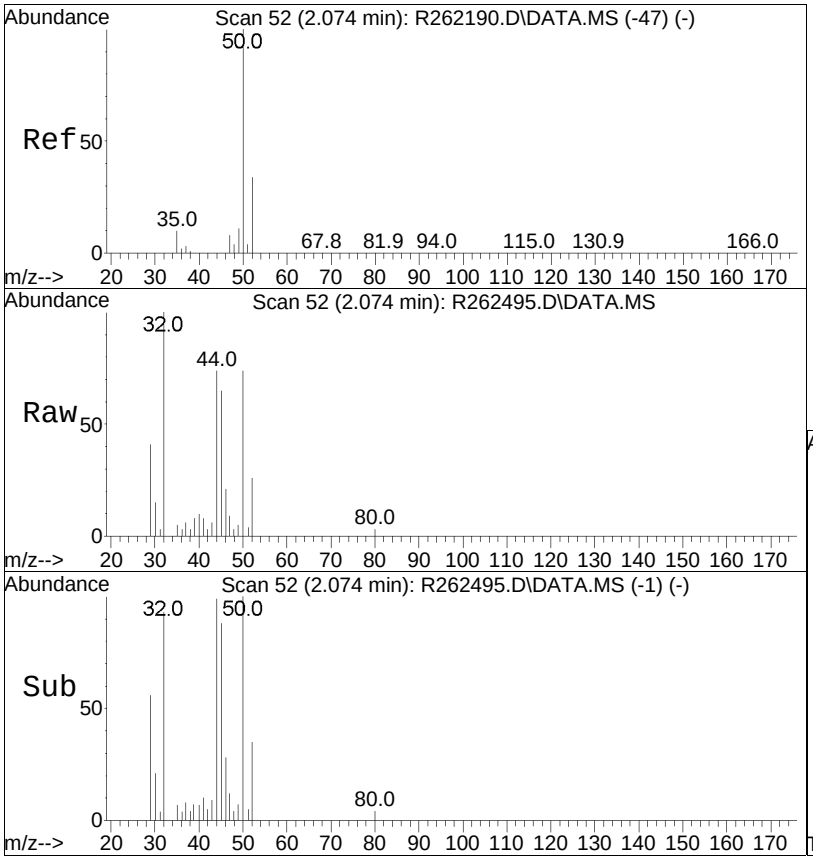


#5
dichlorodifluoromethane
Concen: 0.25 ppbV
RT: 2.024 min Scan# 43
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 85 Resp: 8228

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.4	39.6

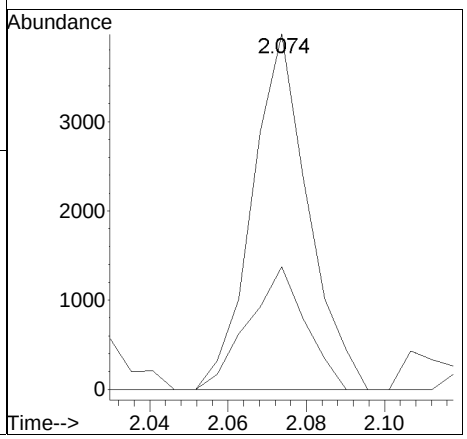


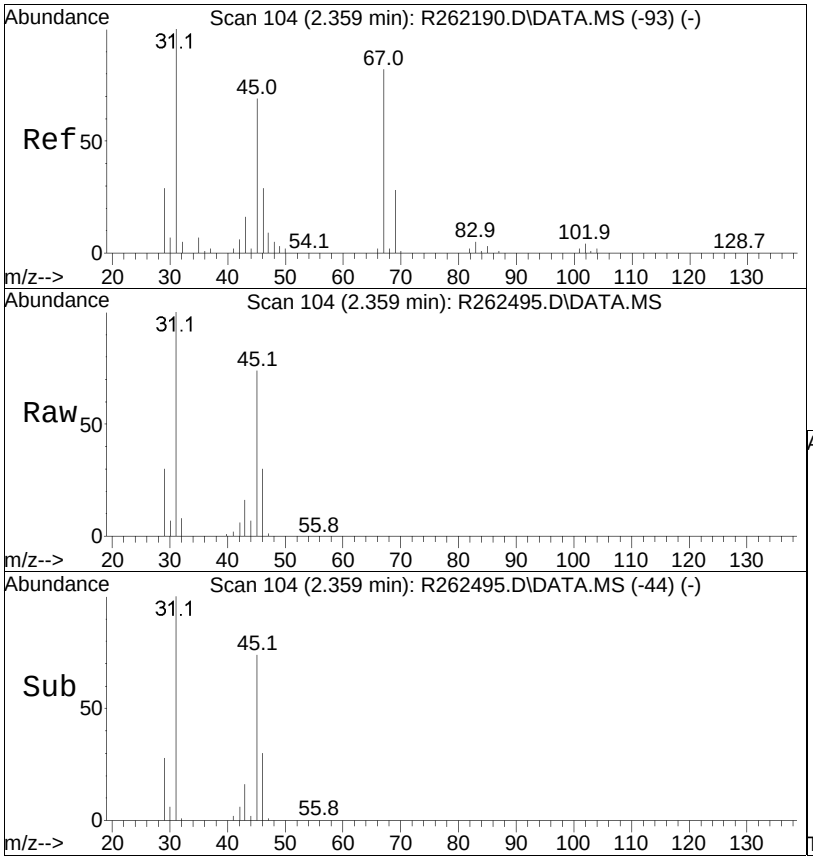


#6
chloromethane
Concen: 0.35 ppbV
RT: 2.074 min Scan# 52
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 50 Resp: 3964

Ion	Ratio	Lower	Upper
50	100		
52	34.5	25.6	38.4

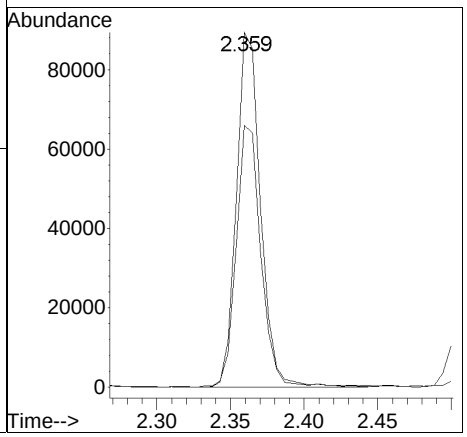


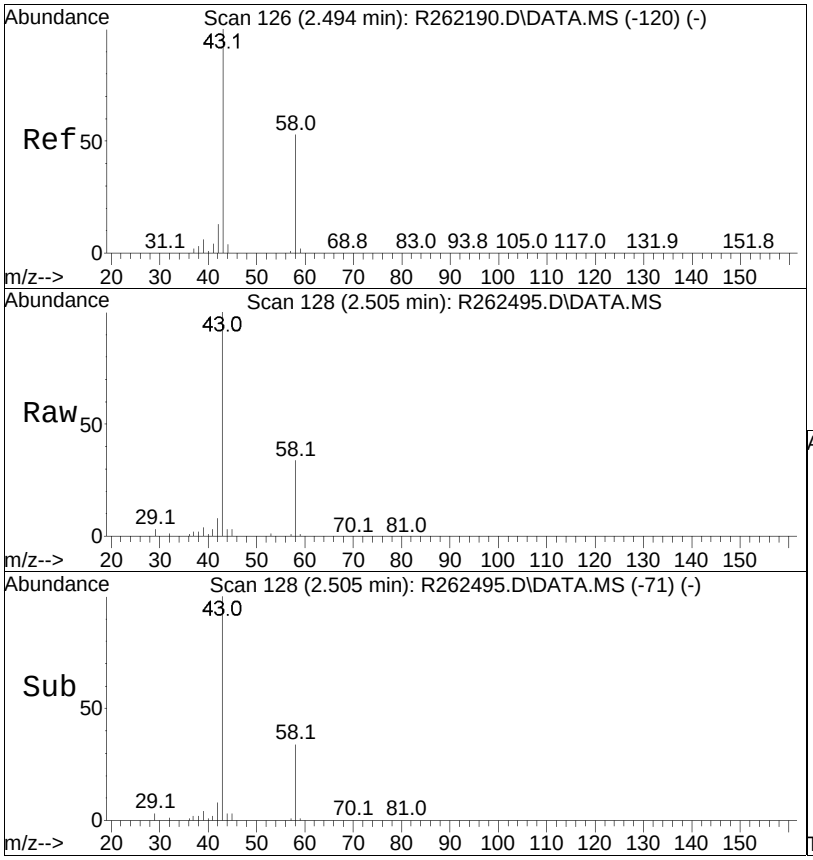


#15
ethanol
Concen: 13.56 ppbV
RT: 2.359 min Scan# 104
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 31 Resp: 113572

Ion	Ratio	Lower	Upper
31	100		
45	73.7	55.4	83.2

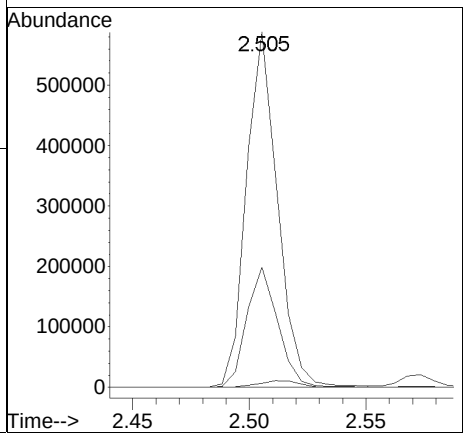


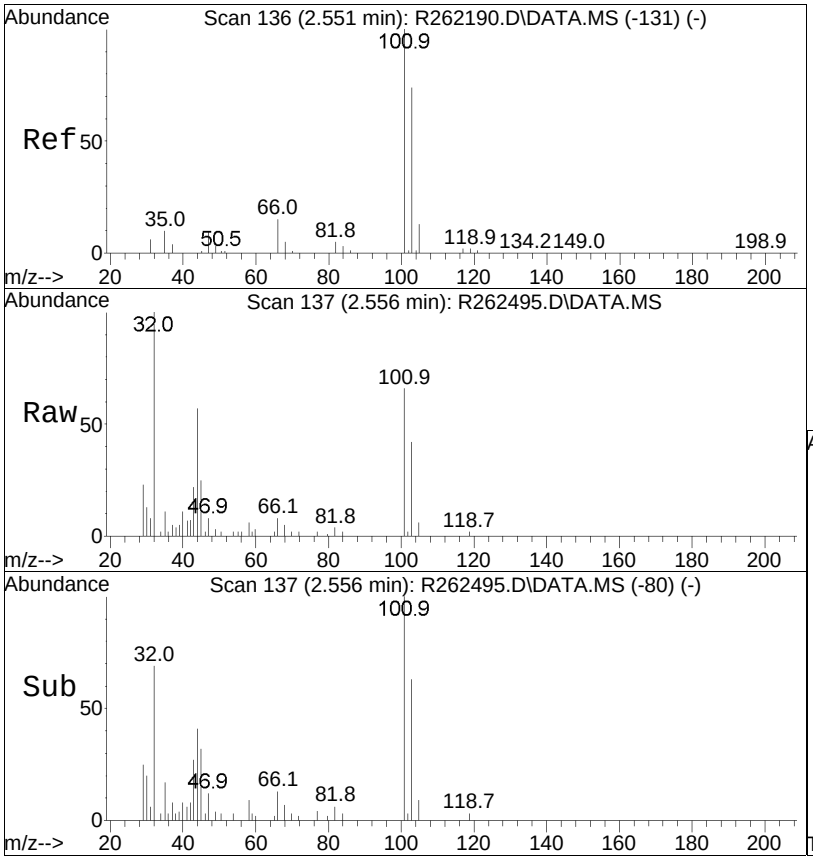


#19
acetone
Concen: 24.80 ppbV
RT: 2.505 min Scan# 128
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 43 Resp: 545993

Ion	Ratio	Lower	Upper
43	100		
58	33.8	26.7	40.1
57	1.2	0.7	1.1#

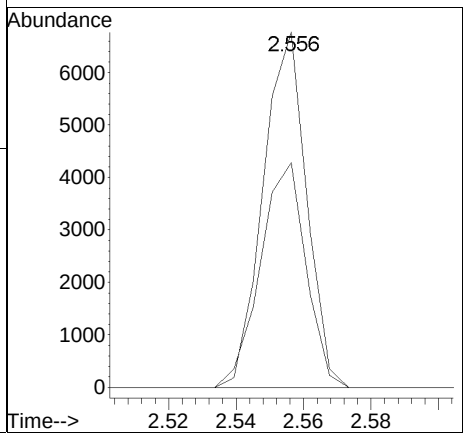


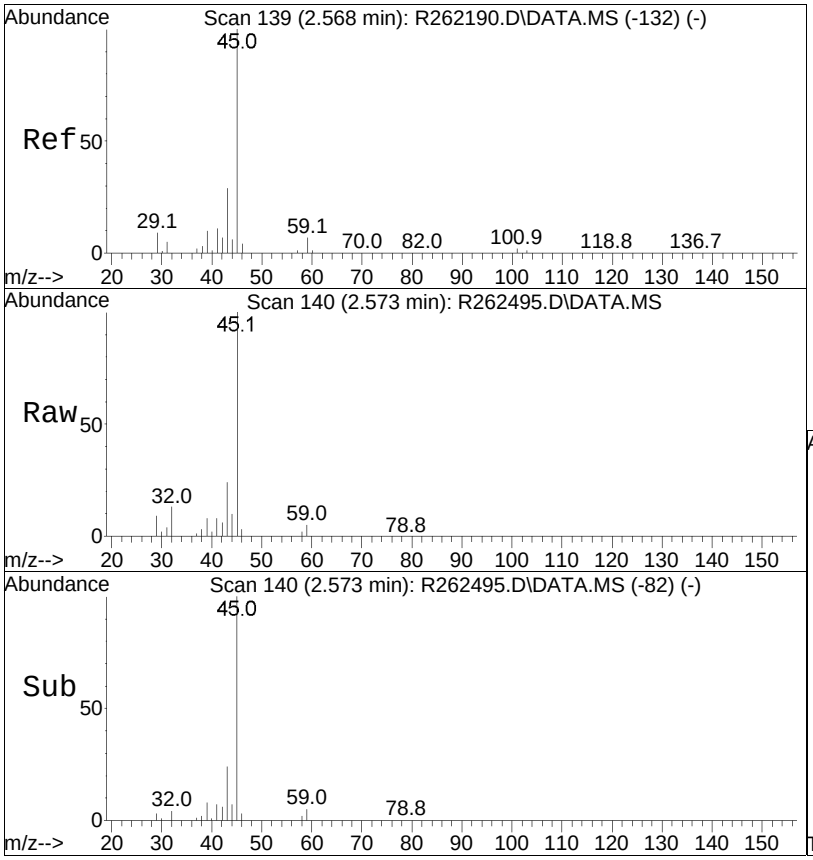


#21
trichlorofluoromethane
Concen: 0.11 ppbV
RT: 2.556 min Scan# 137
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:101 Resp: 6053

Ion	Ratio	Lower	Upper
101	100		
103	63.2	51.7	77.5

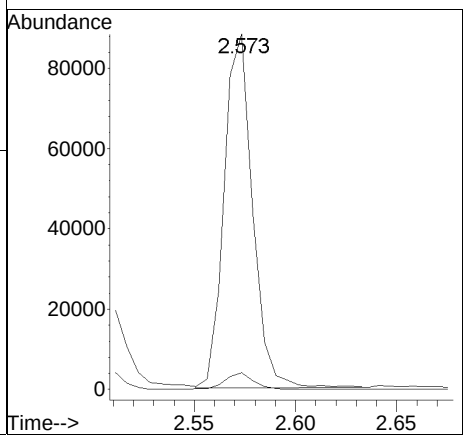


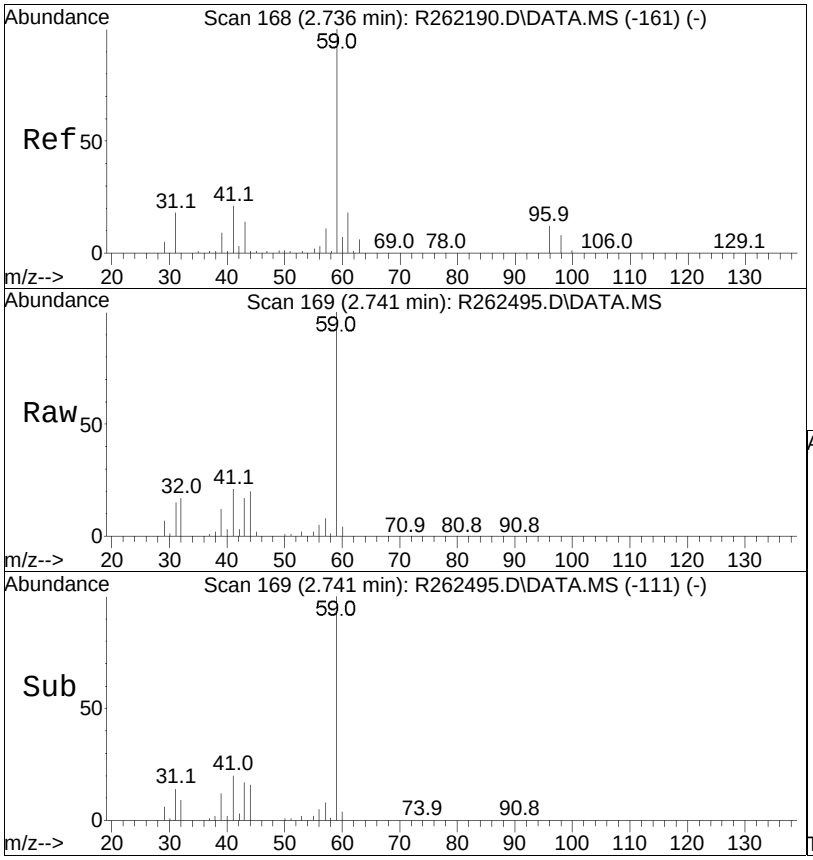


#22
isopropyl alcohol
Concen: 3.27 ppbV
RT: 2.573 min Scan# 140
Delta R.T. 0.006 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 45 Resp: 86192

Ion	Ratio	Lower	Upper
45	100		
59	4.7	3.5	5.3

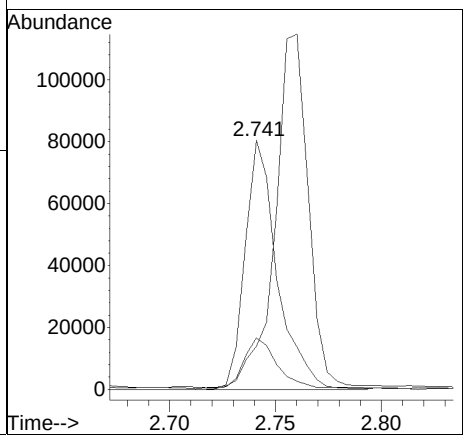


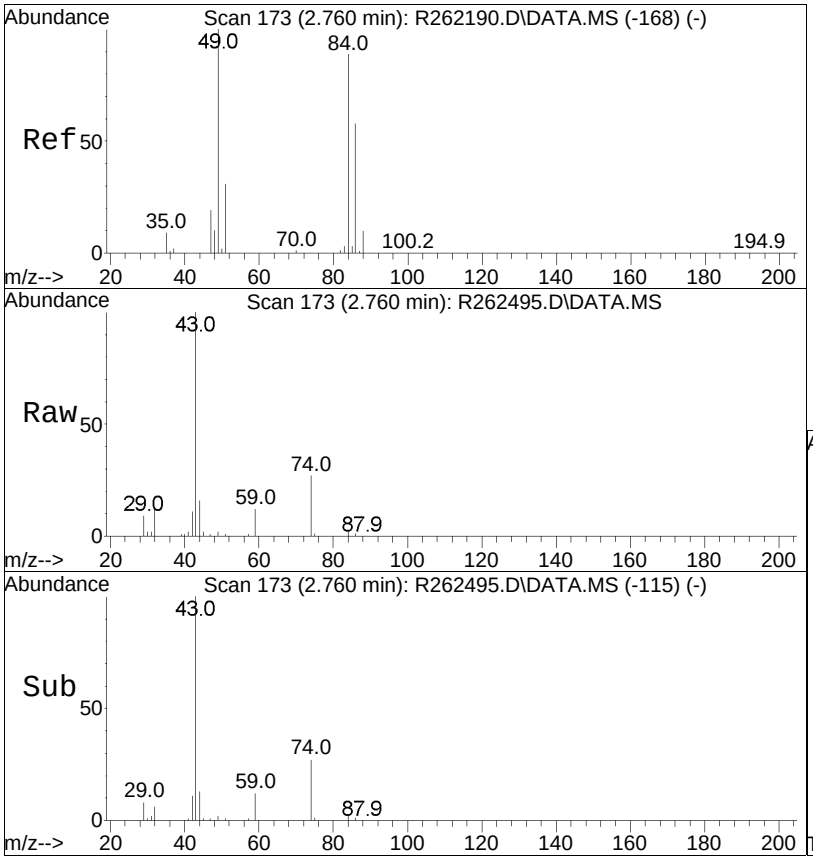


#27
tertiary butyl alcohol
Concen: 1.82 ppbV
RT: 2.741 min Scan# 169
Delta R.T. 0.005 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 59 Resp: 84979

Ion	Ratio	Lower	Upper
59	100		
41	20.7	16.5	24.7
43	17.4	10.8	16.2#

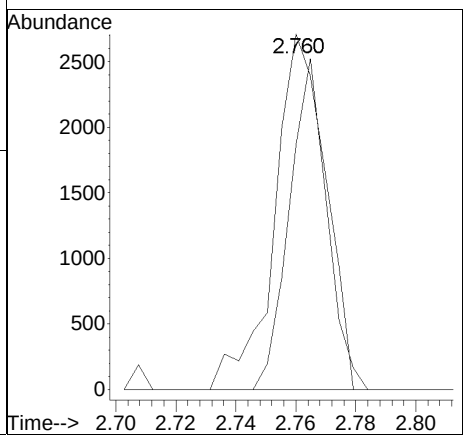


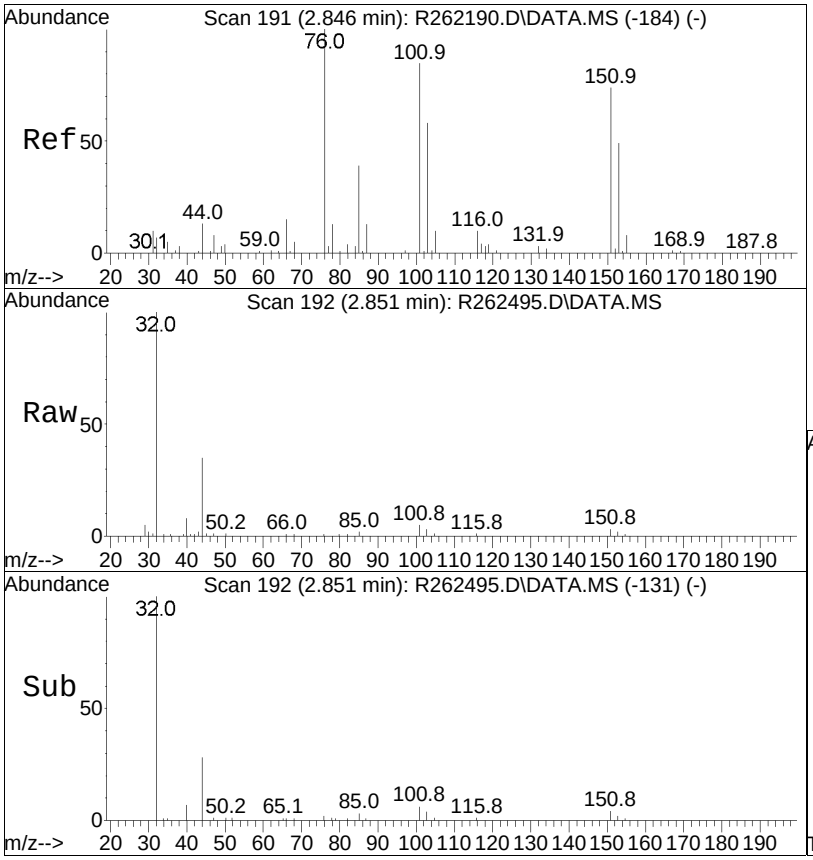


#28
methylene chloride
Concen: 0.13 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 49 Resp: 3217

Ion	Ratio	Lower	Upper
49	100		
84	68.9	67.1	100.7

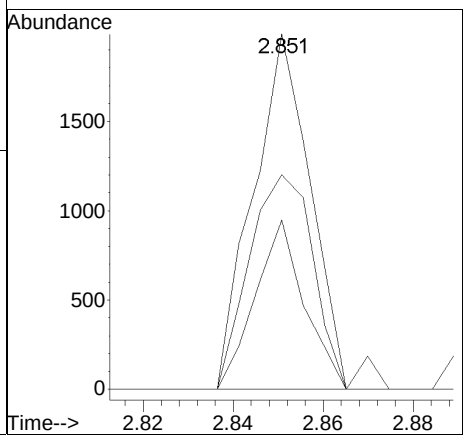


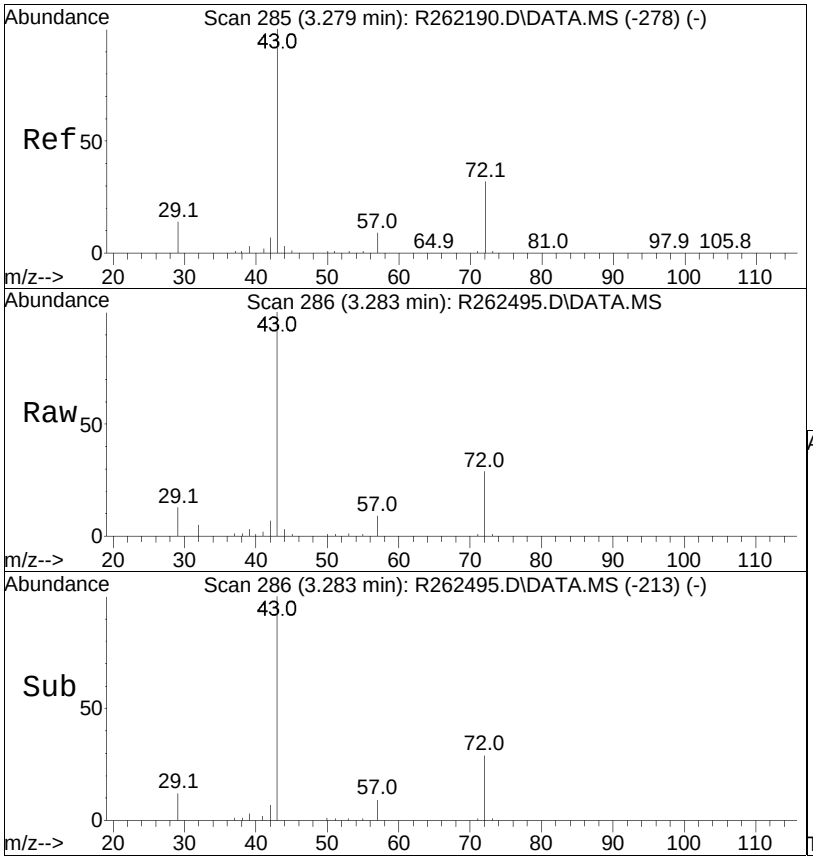


#31
Freon 113
Concen: 0.04 ppbV
RT: 2.851 min Scan# 192
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:101 Resp: 1747

Ion	Ratio	Lower	Upper
101	100		
85	47.7	34.0	51.0
151	60.4	64.4	96.6#

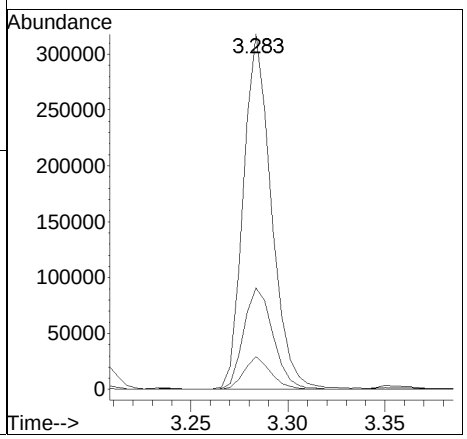


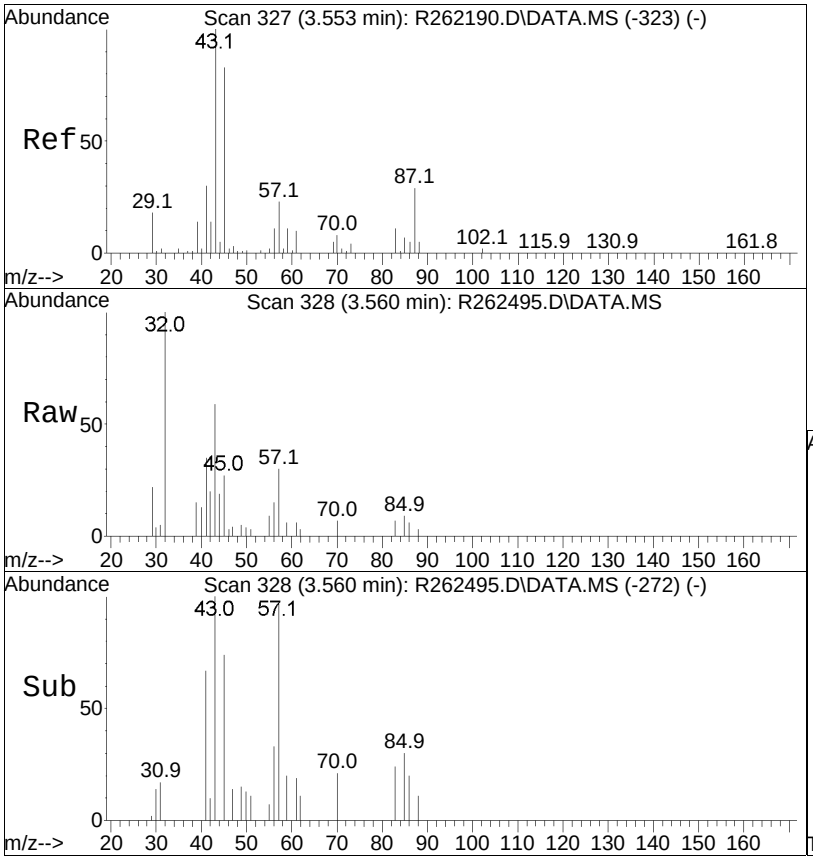


#36
2-butanone
Concen: 15.60 ppbV
RT: 3.283 min Scan# 286
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 43 Resp: 319046

Ion	Ratio	Lower	Upper
43	100		
72	28.5	24.5	36.7
57	9.2	7.0	10.6

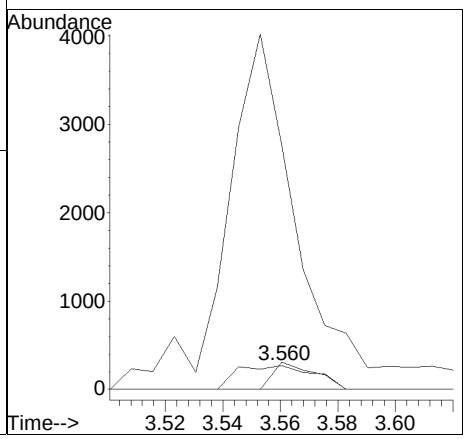


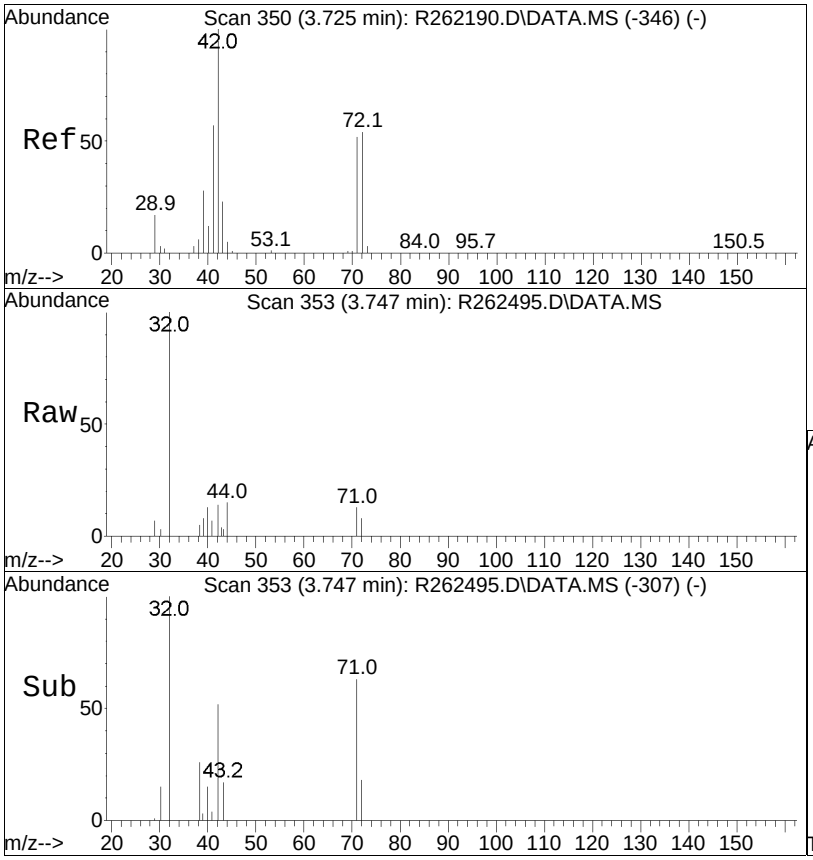


#38
Ethyl Acetate
Concen: 0.12 ppbV
RT: 3.560 min Scan# 328
Delta R.T. 0.007 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 61 Resp: 502

Ion	Ratio	Lower	Upper
61	100		
70	114.4	65.2	97.8#
43	1024.4	1134.1	1701.1#

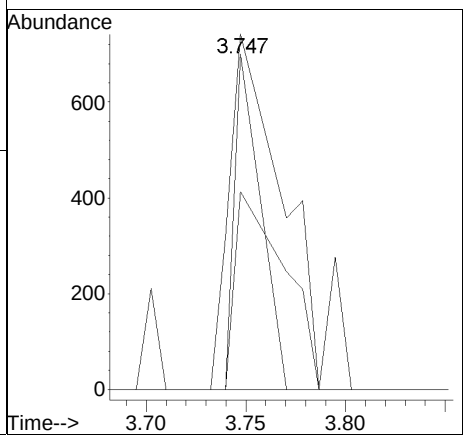


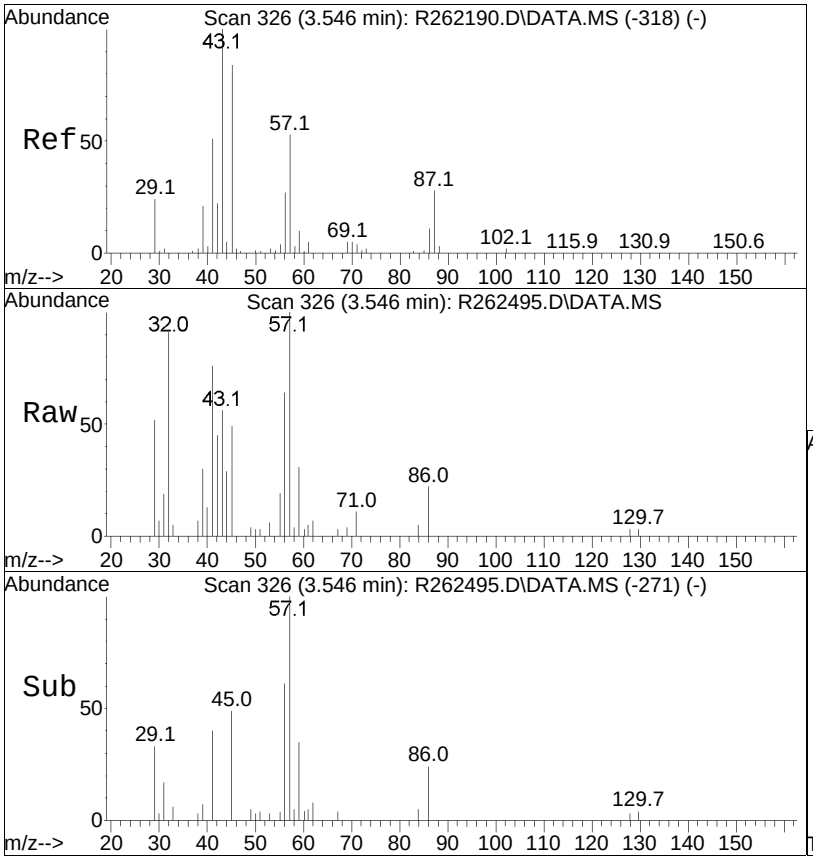


#40
Tetrahydrofuran
Concen: 0.12 ppbV
RT: 3.747 min Scan# 353
Delta R.T. 0.015 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 42 Resp: 1203

Ion	Ratio	Lower	Upper
42	100		
71	94.3	38.2	57.4#
72	55.7	43.9	65.9

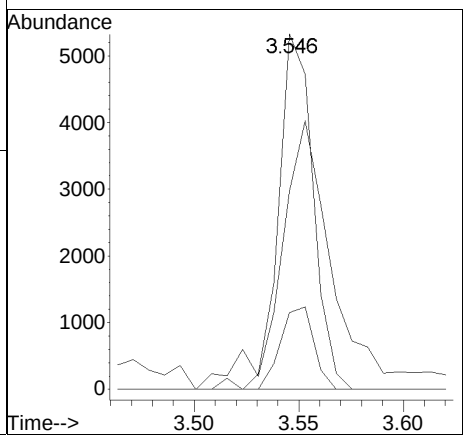


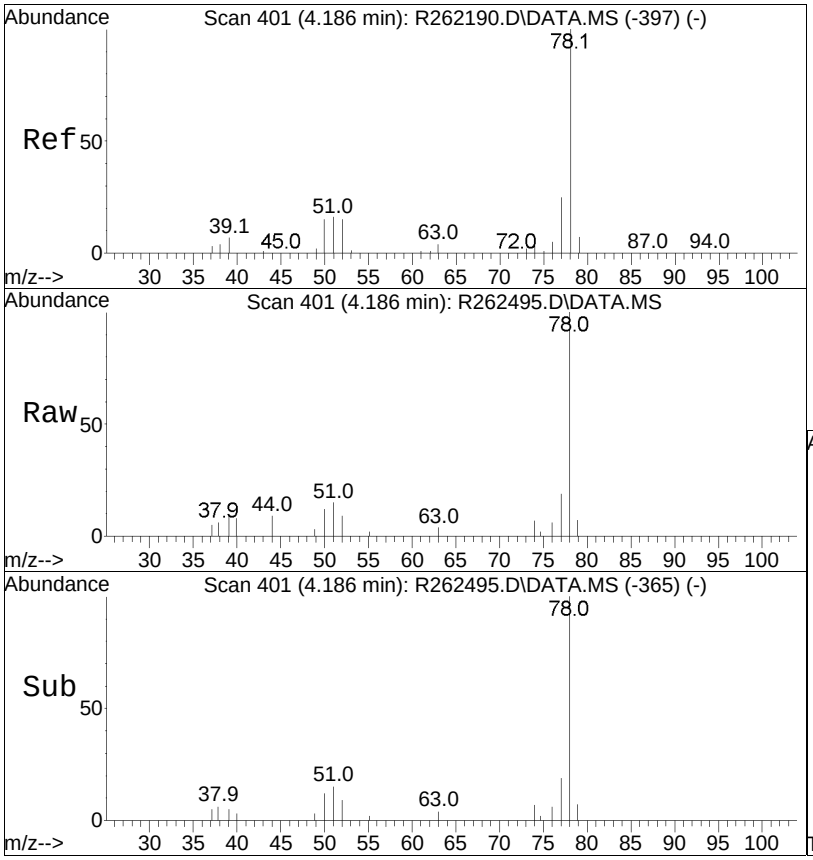


#44
hexane
Concen: 0.38 ppbV
RT: 3.546 min Scan# 326
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 57 Resp: 6144

Ion	Ratio	Lower	Upper
57	100		
43	55.9	161.1	241.7#
86	21.6	16.2	24.4

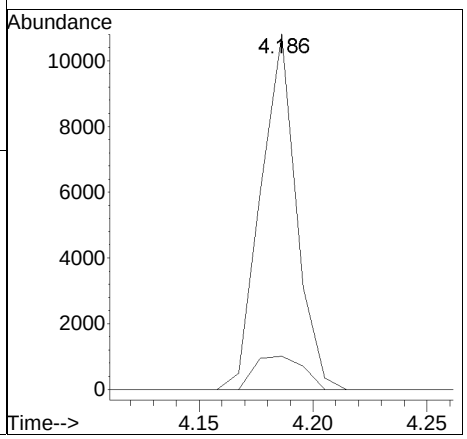


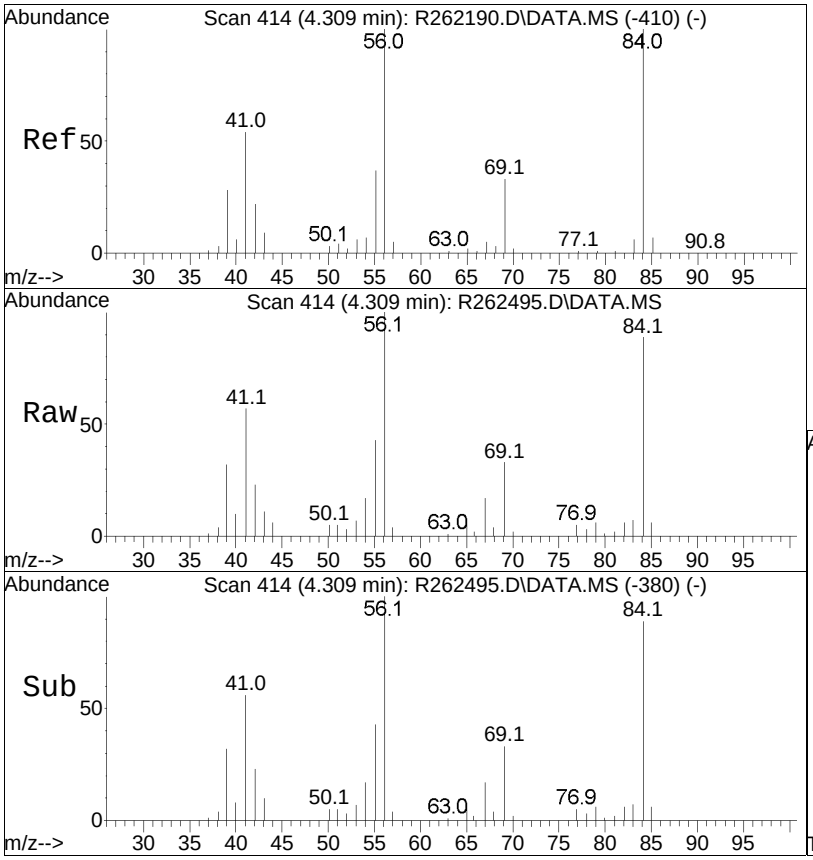


#50
benzene
Concen: 0.29 ppbV
RT: 4.186 min Scan# 401
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 78 Resp: 11739

Ion	Ratio	Lower	Upper
78	100		
52	9.3	10.8	16.2#

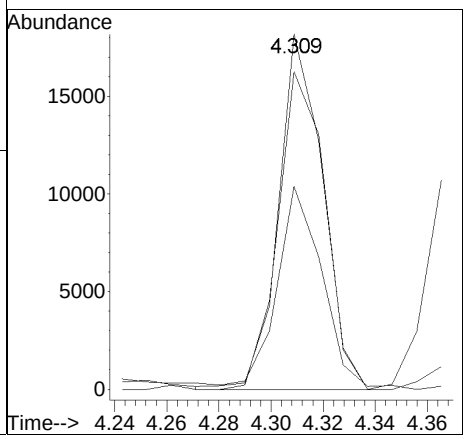


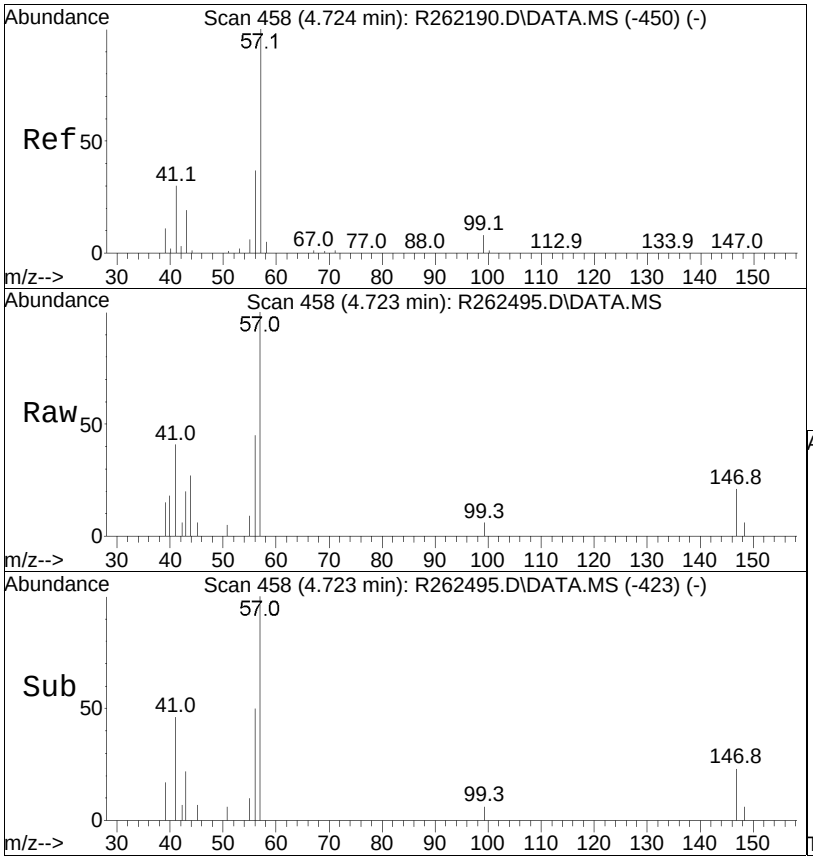


#53
cyclohexane
Concen: 1.32 ppbV
RT: 4.309 min Scan# 414
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 56 Resp: 21394

Ion	Ratio	Lower	Upper
56	100		
84	89.4	75.0	112.4
41	57.1	43.1	64.7

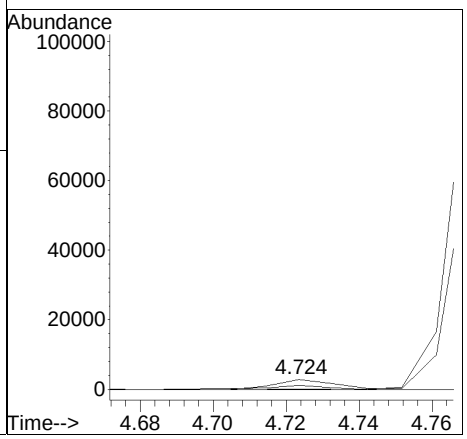


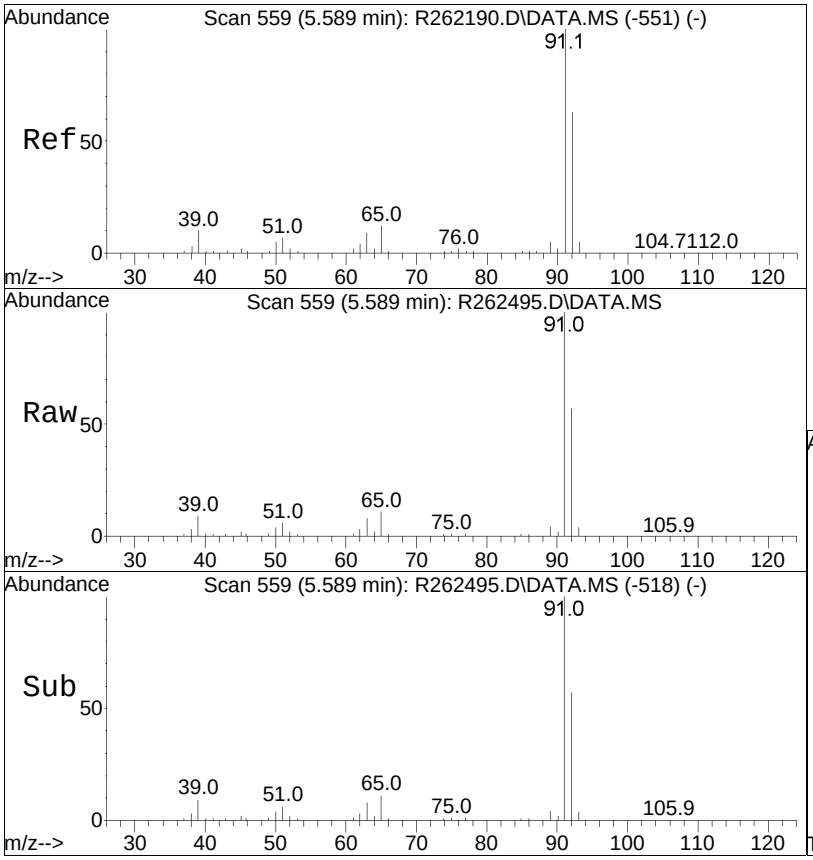


#60
2,2,4-trimethylpentane
Concen: 0.06 ppbV
RT: 4.723 min Scan# 458
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 57 Resp: 3208

Ion	Ratio	Lower	Upper
57	100		
99	5.8	5.8	8.6
41	41.5	21.1	31.7#

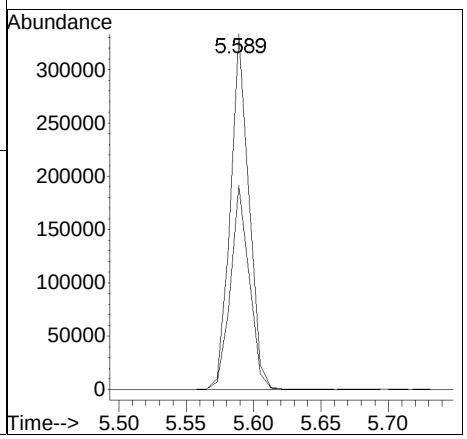


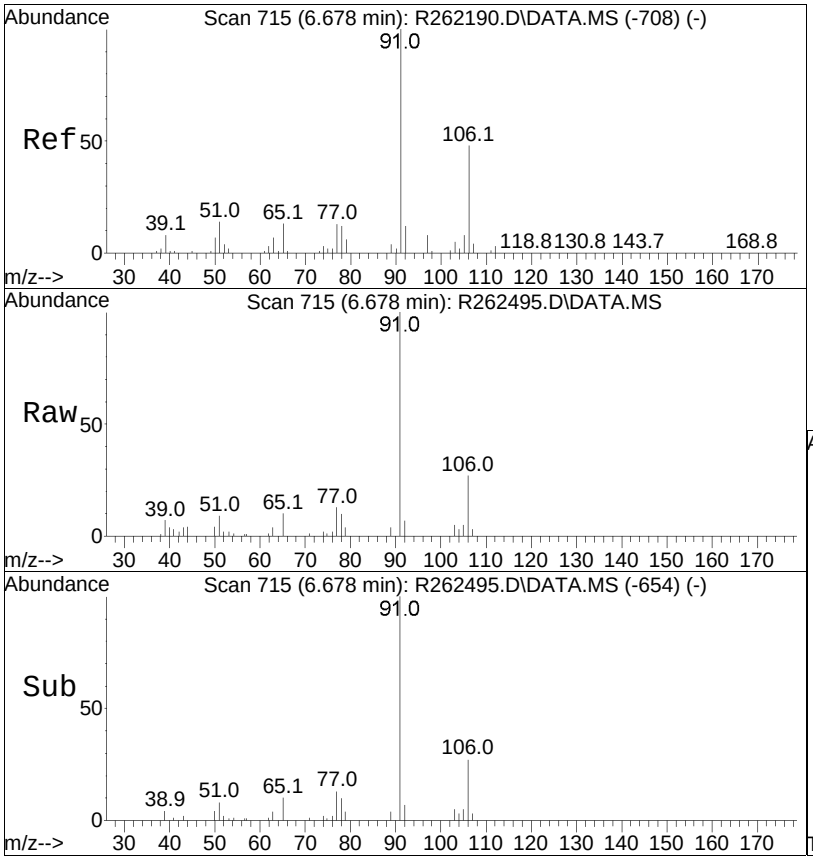


#68
toluene
Concen: 6.22 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 91 Resp: 321642

Ion	Ratio	Lower	Upper
91	100		
92	57.4	46.4	69.6

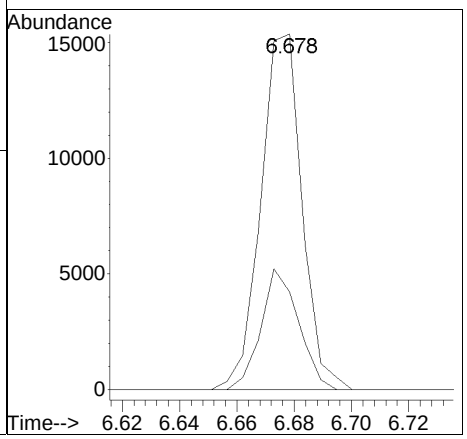


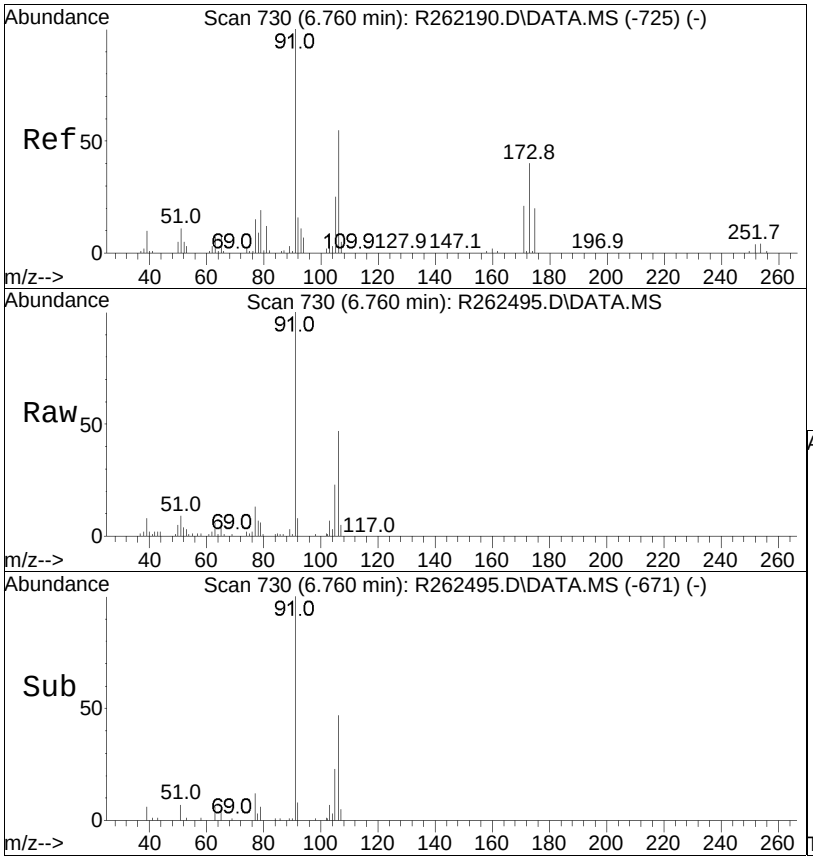


#81
ethylbenzene
Concen: 0.24 ppbV
RT: 6.678 min Scan# 715
Delta R.T. 0.005 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 91 Resp: 15388

Ion	Ratio	Lower	Upper
91	100		
106	27.5	25.3	37.9

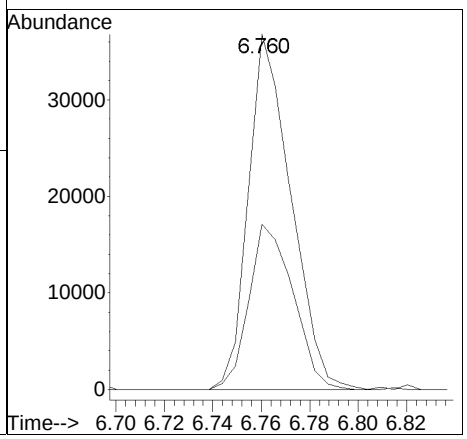


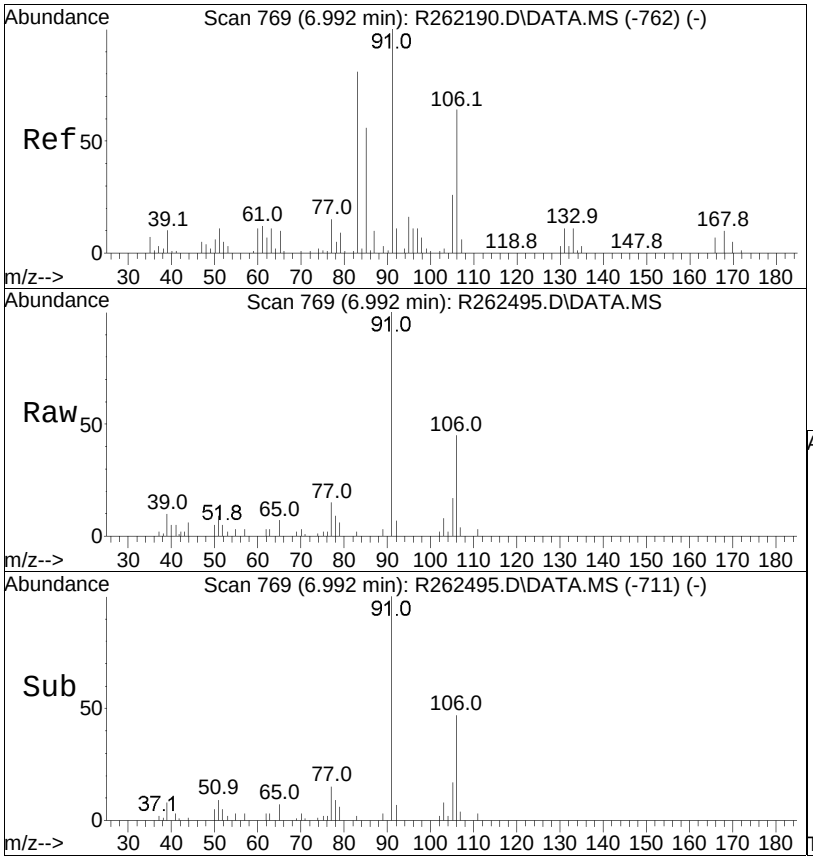


#83
m+p-xylene
Concen: 0.86 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.006 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 91 Resp: 45033

Ion	Ratio	Lower	Upper
91	100		
106	46.5	38.6	57.8

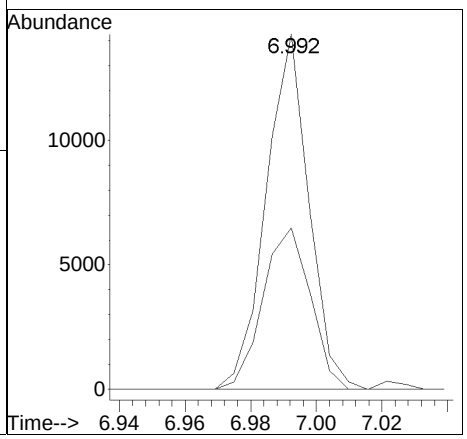


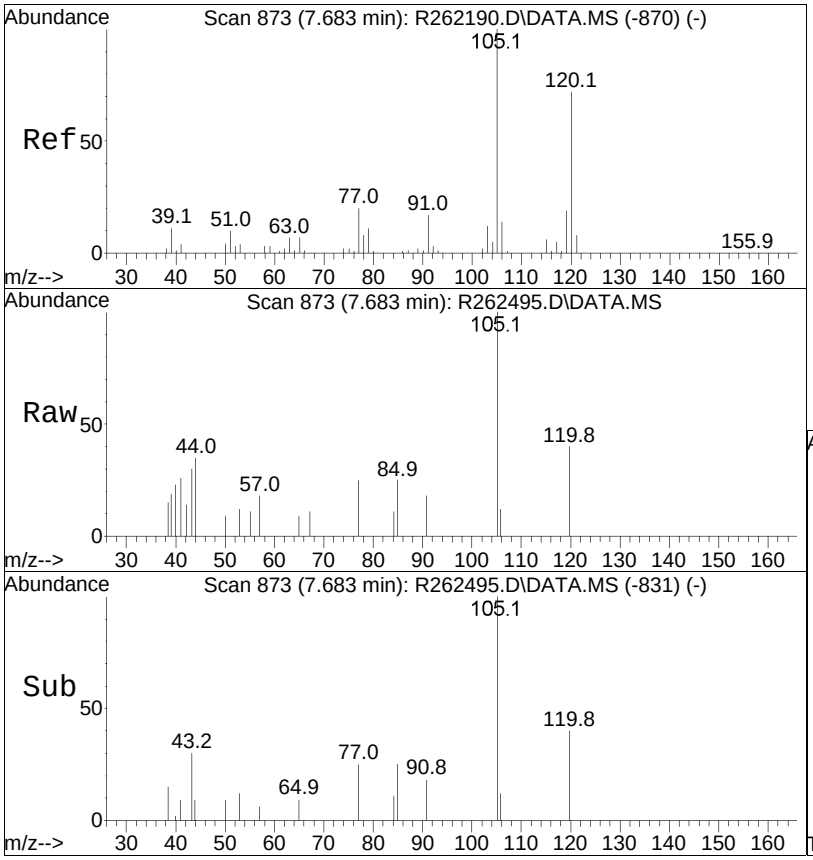


#87
o-xylene
Concen: 0.25 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.006 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion: 91 Resp: 12900

Ion	Ratio	Lower	Upper
91	100		
106	45.4	39.2	58.8

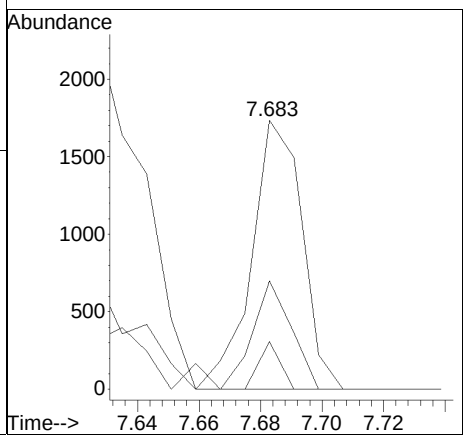


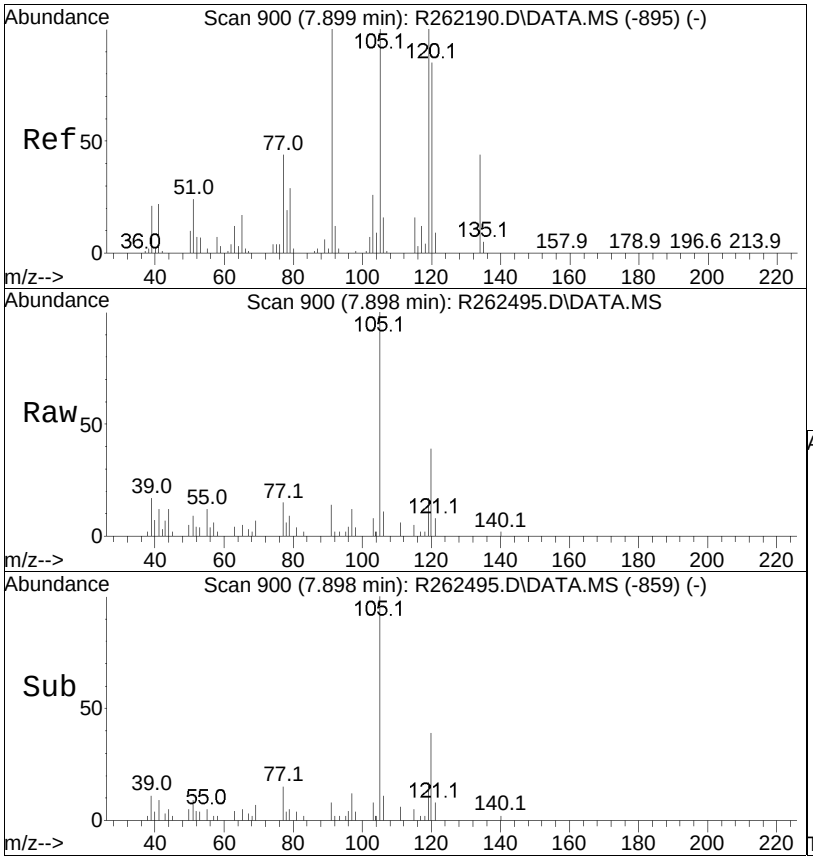


#97
1,3,5-trimethylbenzene
Concen: 0.03 ppbV
RT: 7.683 min Scan# 873
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:105 Resp: 1978

Ion	Ratio	Lower	Upper
105	100		
120	36.1	40.1	60.1#
91	15.9	8.4	12.6#

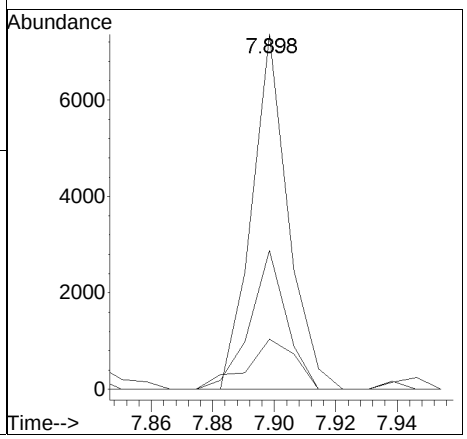




#99
1,2,4-trimethylbenzene
Concen: 0.10 ppbV
RT: 7.898 min Scan# 900
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:105 Resp: 6072

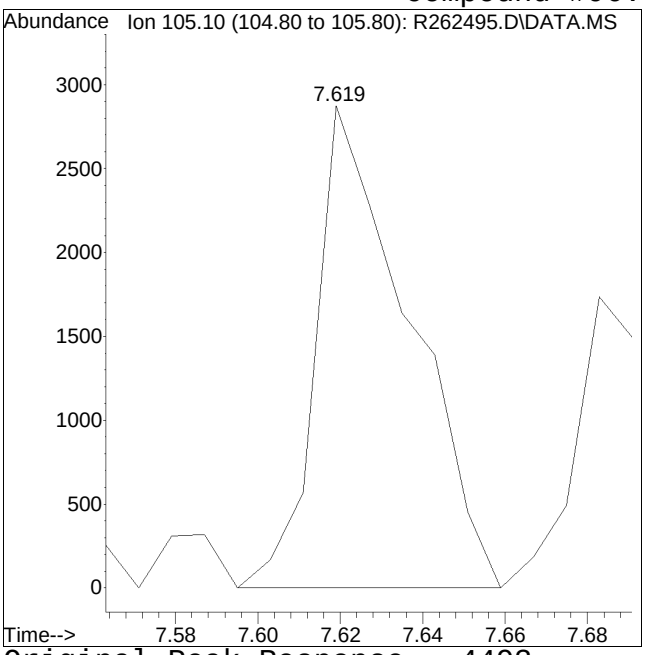
Ion	Ratio	Lower	Upper
105	100		
120	39.1	43.6	65.4#
91	14.1	37.5	56.3#



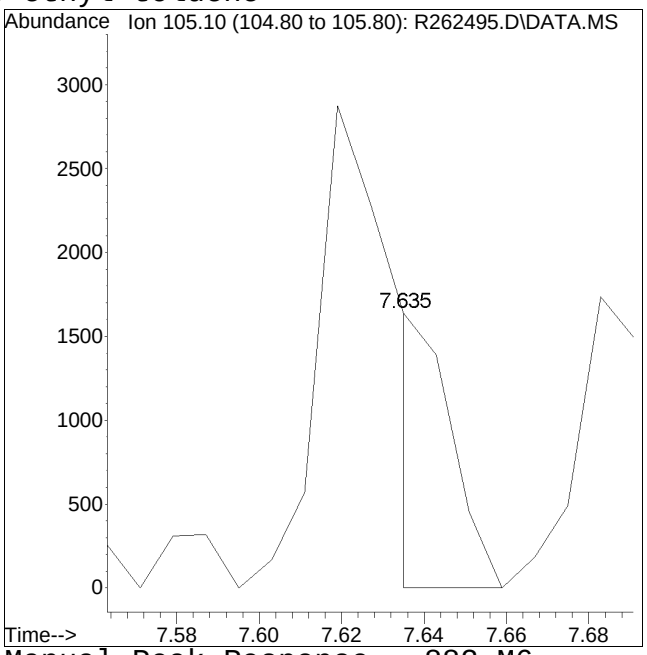
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262495.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 10:16 pm Instrument : Airlab26
Sample : L2514968-05D,3,122.5,250 Quant Date : 3/28/2025 6:50 am

Compound #96: 4-ethyl toluene



Original Peak Response = 4493



Manual Peak Response = 882 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262496.D
Acq On : 27 Mar 2025 10:48 pm
Operator : AIRLAB26:TPH
Sample : L2514968-06,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 06:51:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	184689	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 105.44%			
43) 1,4-difluorobenzene	4.366	114	626940	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 102.35%			
67) chlorobenzene-D5	6.449	54	101752	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 107.51%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.030	85	16841	0.514	ppbV	99
6) chloromethane	2.079	50	7111	0.624	ppbV #	87
7) Freon-114	2.112		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.283		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.365	31	196416	23.506	ppbV	98
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.506	43	652392M6	29.691	ppbV	
21) trichlorofluoromethane	2.557	101	12985	0.226	ppbV	95
22) isopropyl alcohol	2.574	45	201392	7.656	ppbV	99
27) tertiary butyl alcohol	2.741	59	319015	6.838	ppbV	96
28) methylene chloride	2.765	49	5294	0.220	ppbV	92
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	2.856		0	N.D.		
31) Freon 113	2.851	101	3477	0.072	ppbV	88
32) trans-1,2-dichloroethene	3.067		0	N.D.		
33) 1,1-dichloroethane	3.142		0	N.D.		
34) MTBE	3.155		0	N.D.		
36) 2-butanone	3.284	43	1478917	72.468	ppbV	99
38) Ethyl Acetate	3.561	61	603	0.143	ppbV #	2
39) chloroform	3.568	83	9524	0.308	ppbV	90
40) Tetrahydrofuran	3.740	42	36193	3.702	ppbV	94
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.553	57	8394	0.509	ppbV #	28
50) benzene	4.186	78	32637	0.783	ppbV	99
53) cyclohexane	4.309	56	13798	0.833	ppbV	98
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262496.D
Acq On : 27 Mar 2025 10:48 pm
Operator : AIRLAB26:TPH
Sample : L2514968-06,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 06:51:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : TO15-NY-7-sim+Naphthalene - .

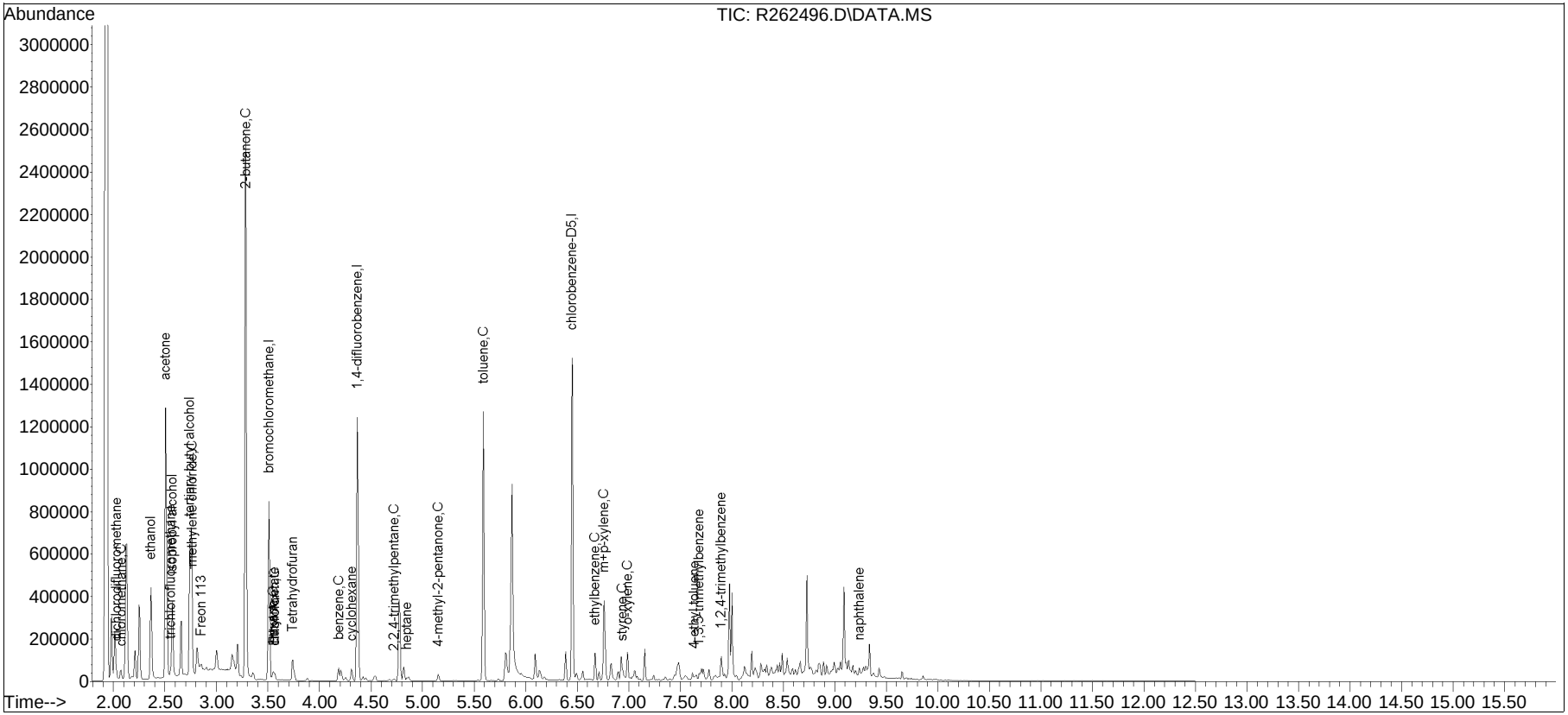
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D. d		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.724	57	5800	0.112	ppbV #	87
62) heptane	4.846	43	10623	0.657	ppbV #	38
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.150	43	7091	0.315	ppbV	96
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	523668	9.704	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	6.444		0	N.D.		
81) ethylbenzene	6.673	91	51283	0.755	ppbV	98
83) m+p-xylene	6.760	91	154113	2.827	ppbV	94
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	10074	0.251	ppbV	98
86) 1,1,2,2-tetrachloroethane	6.987		0	N.D.		
87) o-xylene	6.987	91	41933	0.766	ppbV	90
96) 4-ethyl toluene	7.635	105	5932M3	0.091	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	8524	0.139	ppbV	90
99) 1,2,4-trimethylbenzene	7.899	105	31311	0.482	ppbV #	68
101) Benzyl Chloride	7.954		0	N.D.		
102) 1,3-dichlorobenzene	8.002		0	N.D.		
103) 1,4-dichlorobenzene	8.002		0	N.D.		
107) 1,2-dichlorobenzene	8.186		0	N.D.		
115) 1,2,4-trichlorobenzene	9.189		0	N.D.		
116) naphthalene	9.236	128	6861	0.073	ppbV #	94
119) hexachlorobutadiene	0.000		0	N.D.		

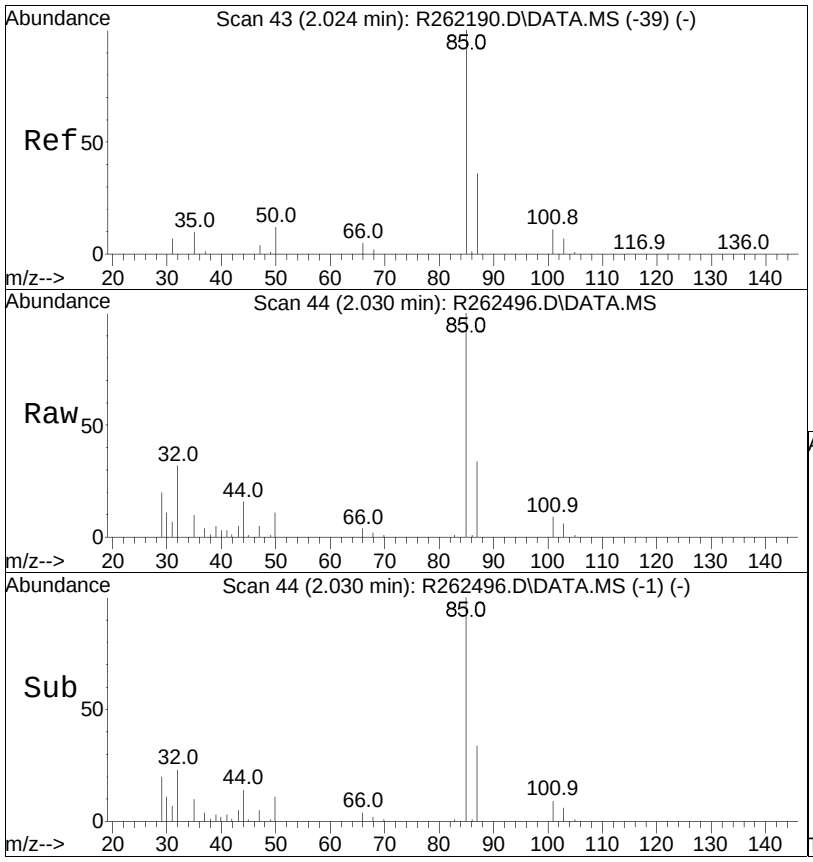
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262496.D
Acq On : 27 Mar 2025 10:48 pm
Operator : AIRLAB26:TPH
Sample : L2514968-06,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 06:51:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

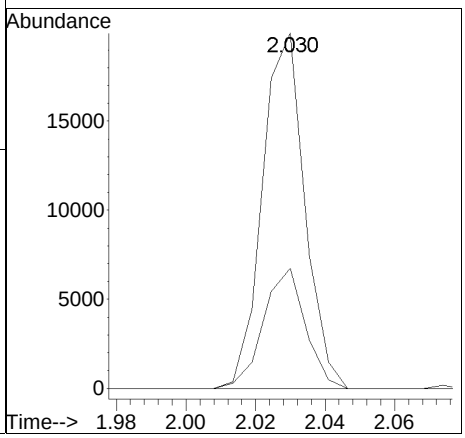


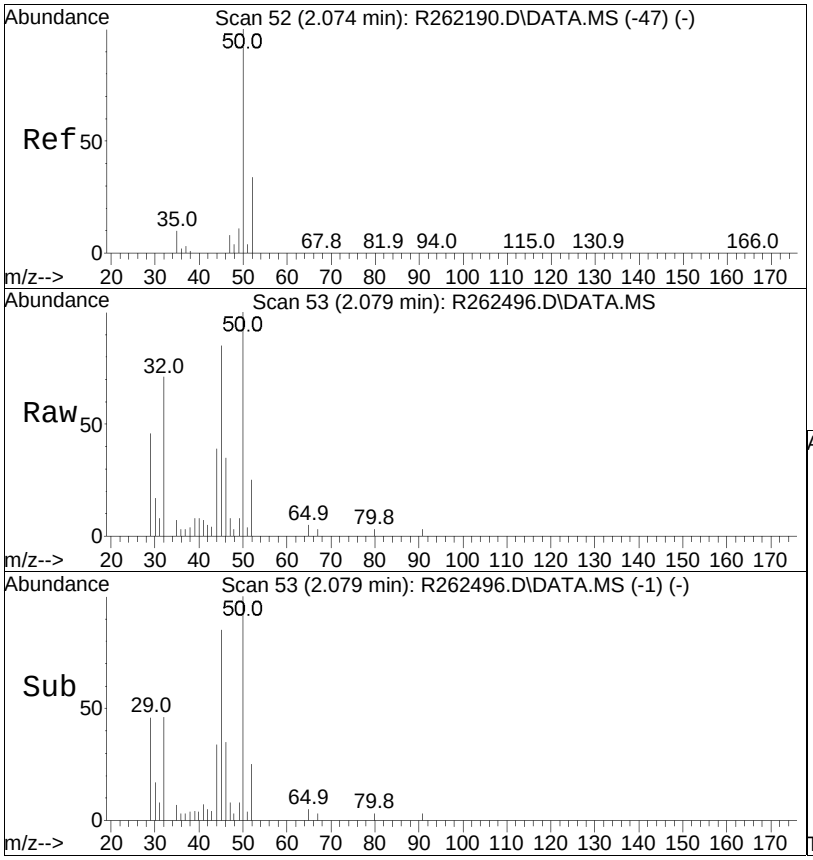


#5
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 2.030 min Scan# 44
Delta R.T. 0.006 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 85 Resp: 16841

Ion	Ratio	Lower	Upper
85	100		
87	33.8	26.4	39.6

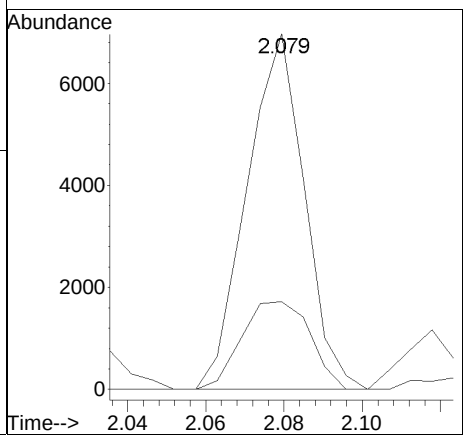


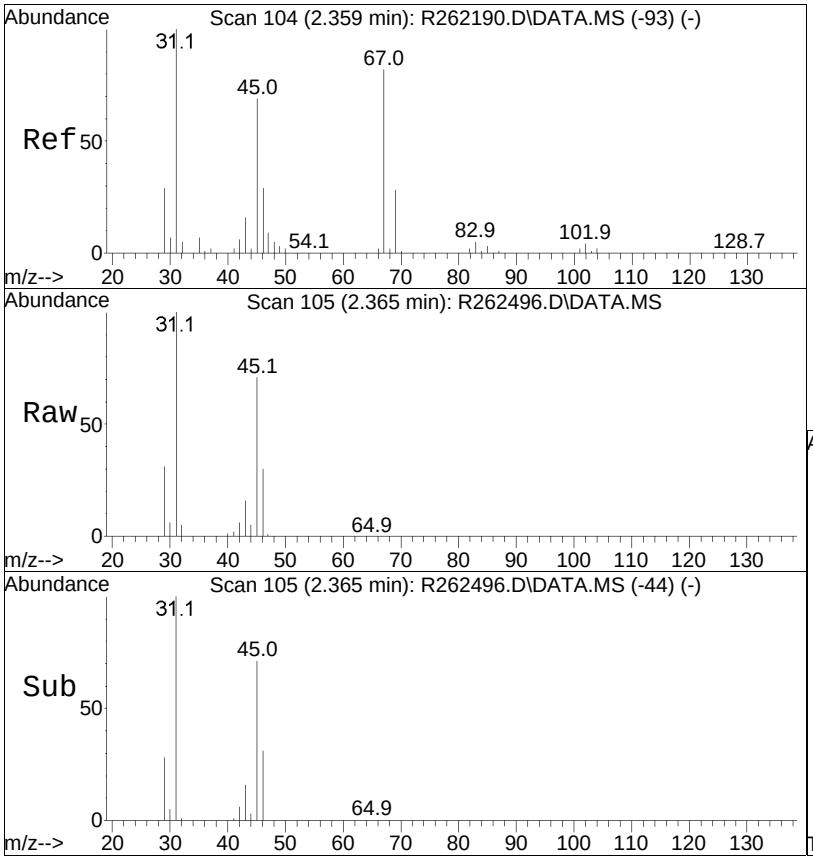


#6
chloromethane
Concen: 0.62 ppbV
RT: 2.079 min Scan# 53
Delta R.T. 0.006 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 50 Resp: 7111

Ion	Ratio	Lower	Upper
50	100		
52	24.7	25.6	38.4#

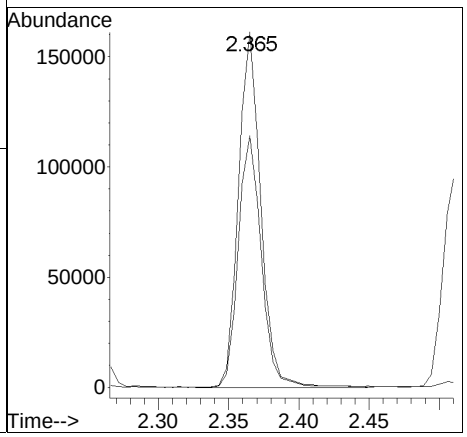


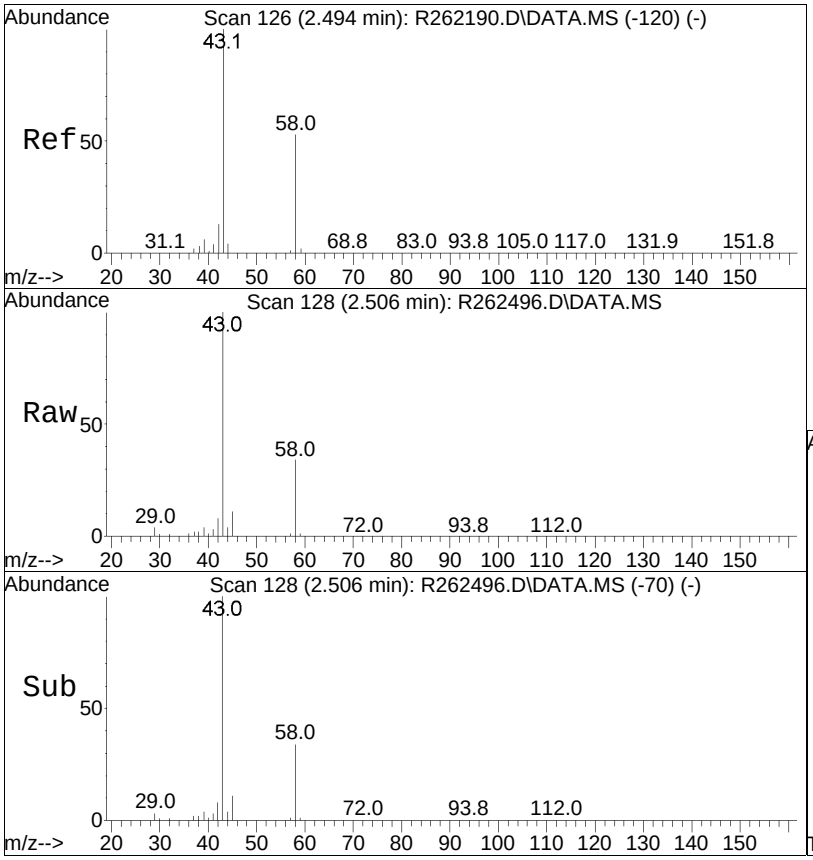


#15
ethanol
Concen: 23.51 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.006 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 31 Resp: 196416

Ion	Ratio	Lower	Upper
31	100		
45	70.8	55.4	83.2

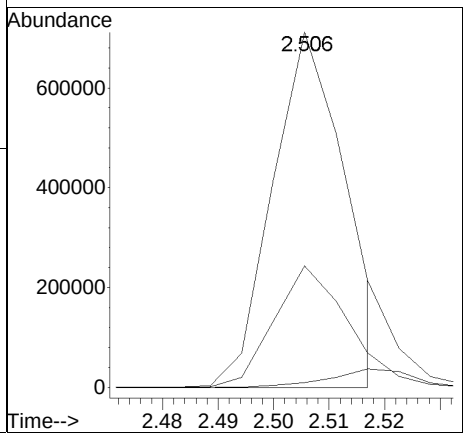


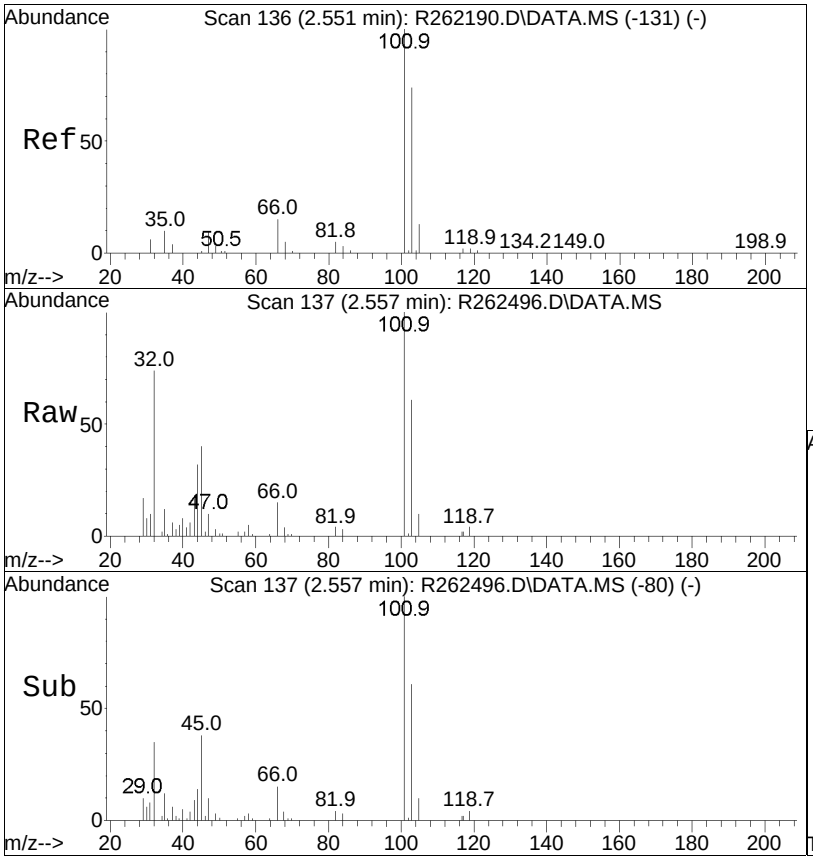


#19
acetone
Concen: 29.69 ppbV m
RT: 2.506 min Scan# 128
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 43 Resp: 652392

Ion	Ratio	Lower	Upper
43	100		
58	34.2	26.7	40.1
57	1.4	0.7	1.1#

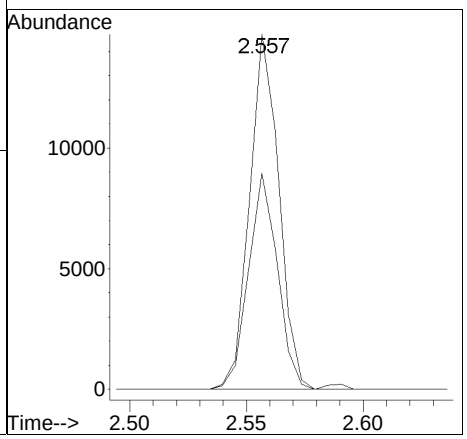


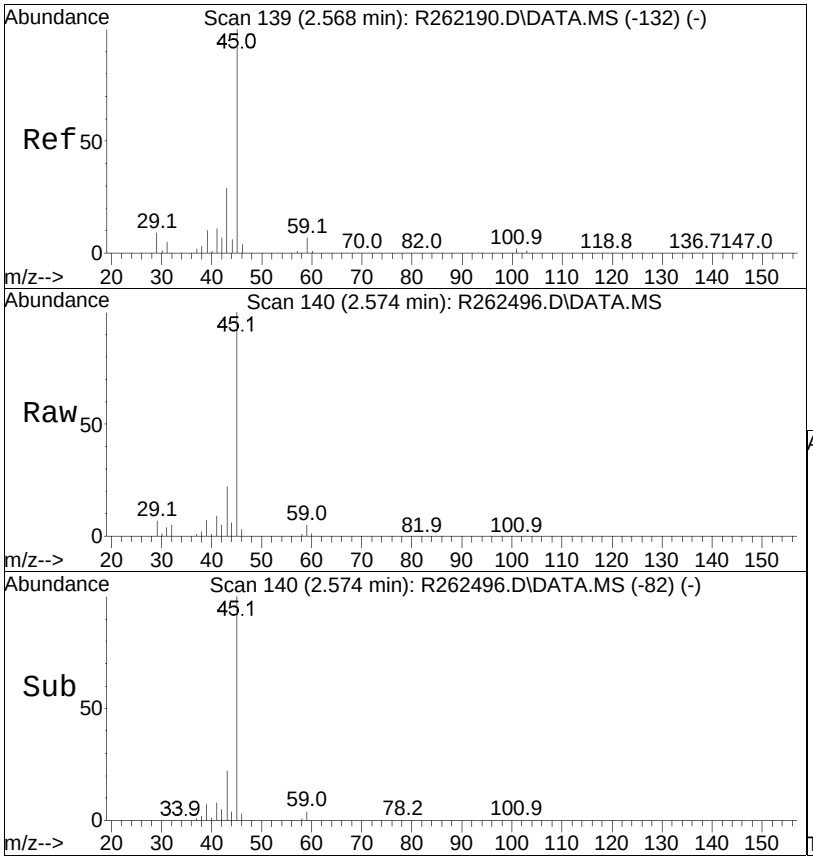


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 2.557 min Scan# 137
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:101 Resp: 12985

Ion	Ratio	Lower	Upper
101	100		
103	60.9	51.7	77.5

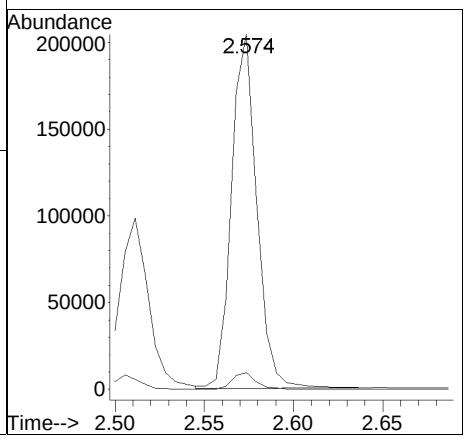


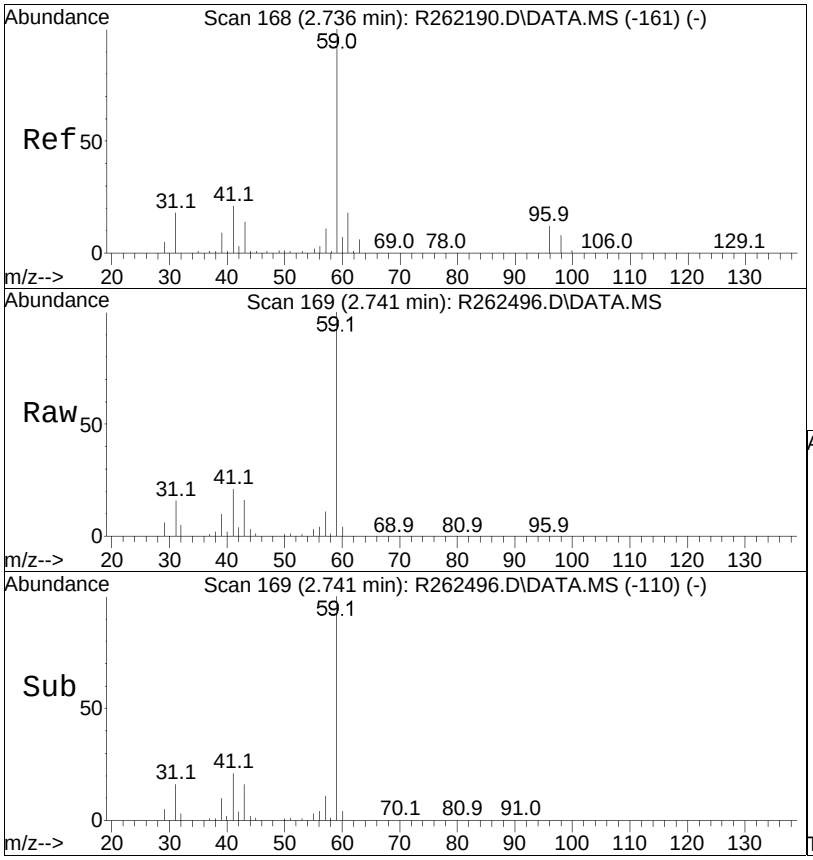


#22
isopropyl alcohol
Concen: 7.66 ppbV
RT: 2.574 min Scan# 140
Delta R.T. 0.006 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 45 Resp: 201392

Ion	Ratio	Lower	Upper
45	100		
59	4.7	3.5	5.3

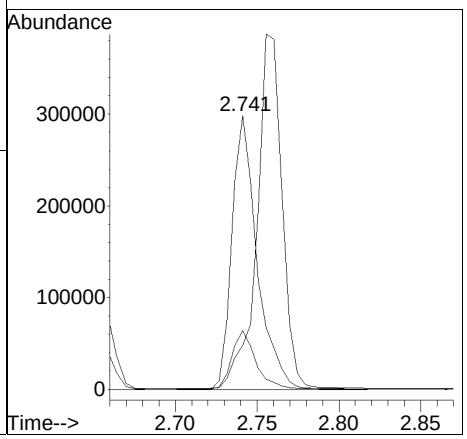


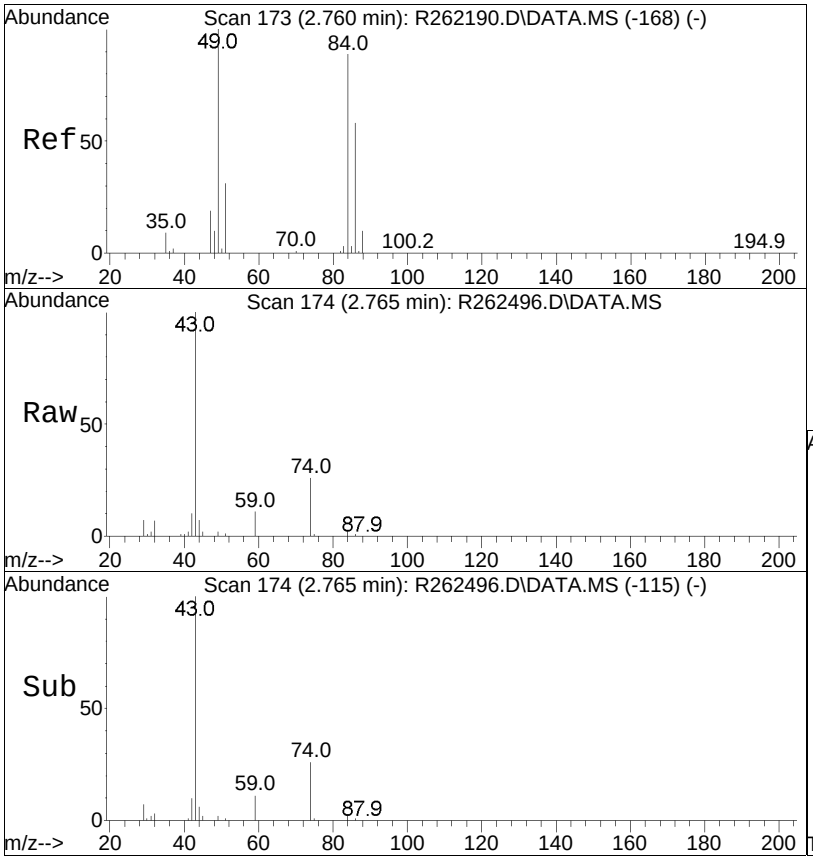


#27
tertiary butyl alcohol
Concen: 6.84 ppbV
RT: 2.741 min Scan# 169
Delta R.T. 0.005 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 59 Resp: 319015

Ion	Ratio	Lower	Upper
59	100		
41	21.5	16.5	24.7
43	16.1	10.8	16.2

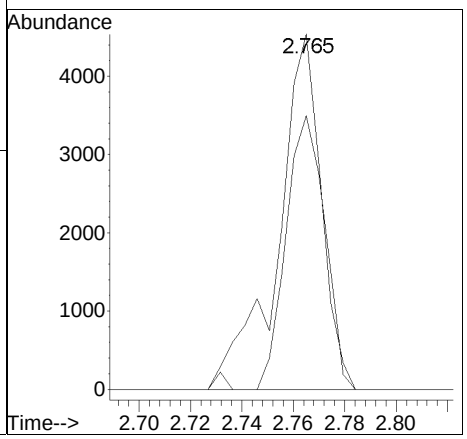


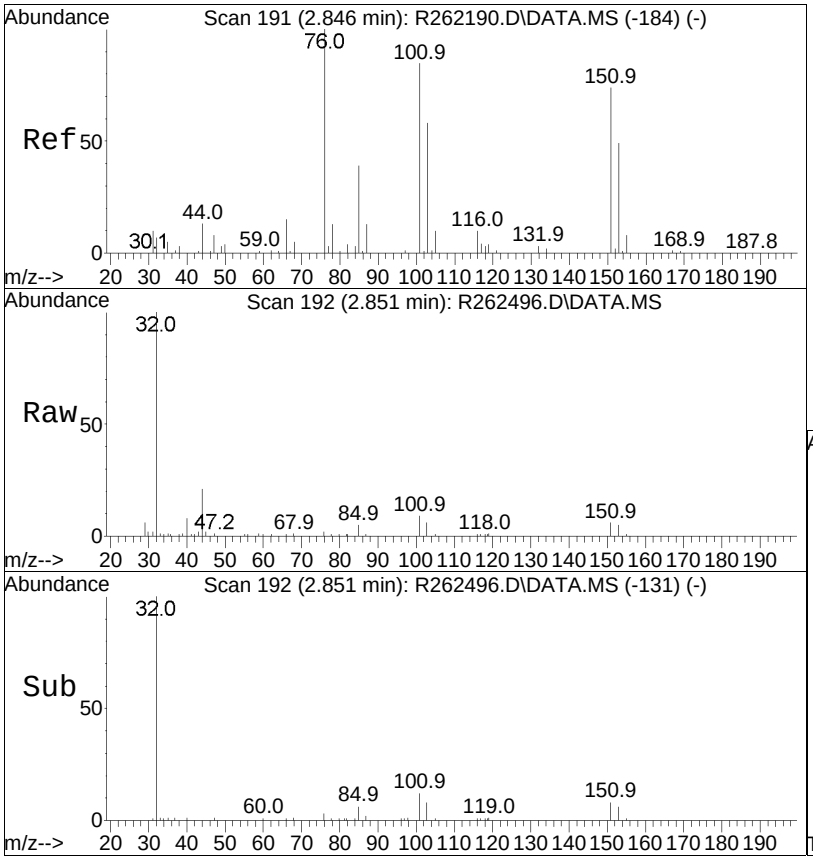


#28
methylene chloride
Concen: 0.22 ppbV
RT: 2.765 min Scan# 174
Delta R.T. 0.005 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 49 Resp: 5294

Ion	Ratio	Lower	Upper
49	100		
84	77.0	67.1	100.7

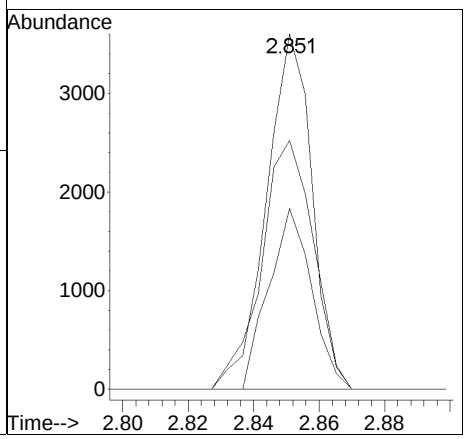


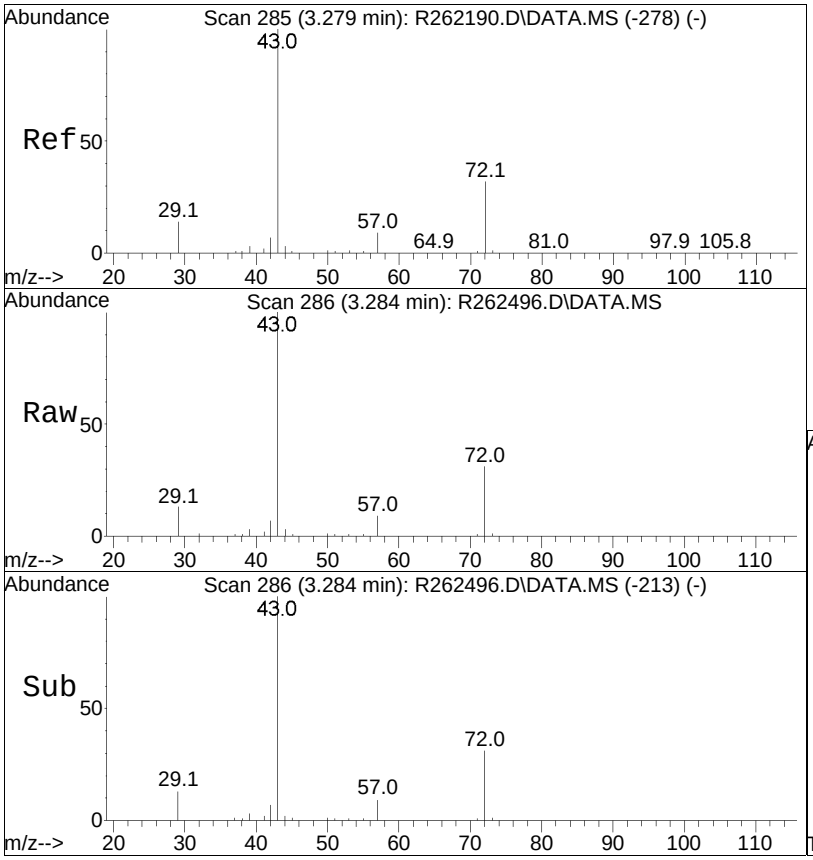


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:101 Resp: 3477

Ion	Ratio	Lower	Upper
101	100		
85	50.9	34.0	51.0
151	70.1	64.4	96.6

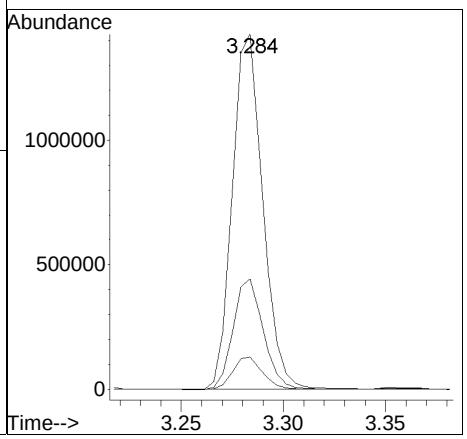


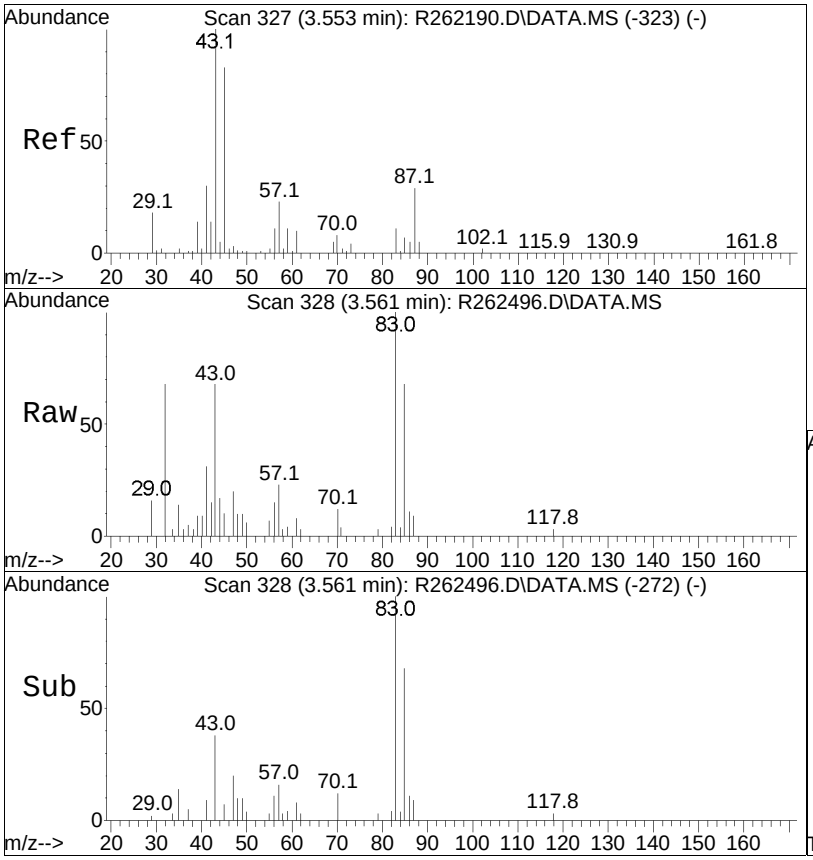


#36
2-butanone
Concen: 72.47 ppbV
RT: 3.284 min Scan# 286
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 43 Resp: 1478917

Ion	Ratio	Lower	Upper
43	100		
72	31.1	24.5	36.7
57	9.1	7.0	10.6

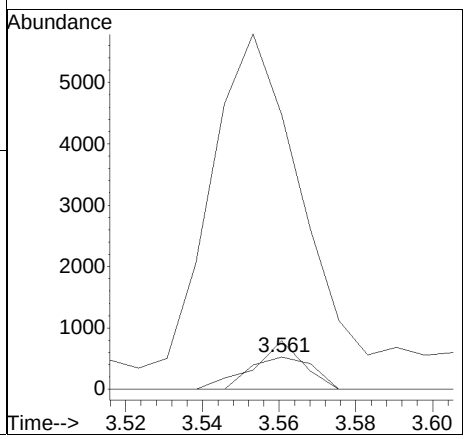


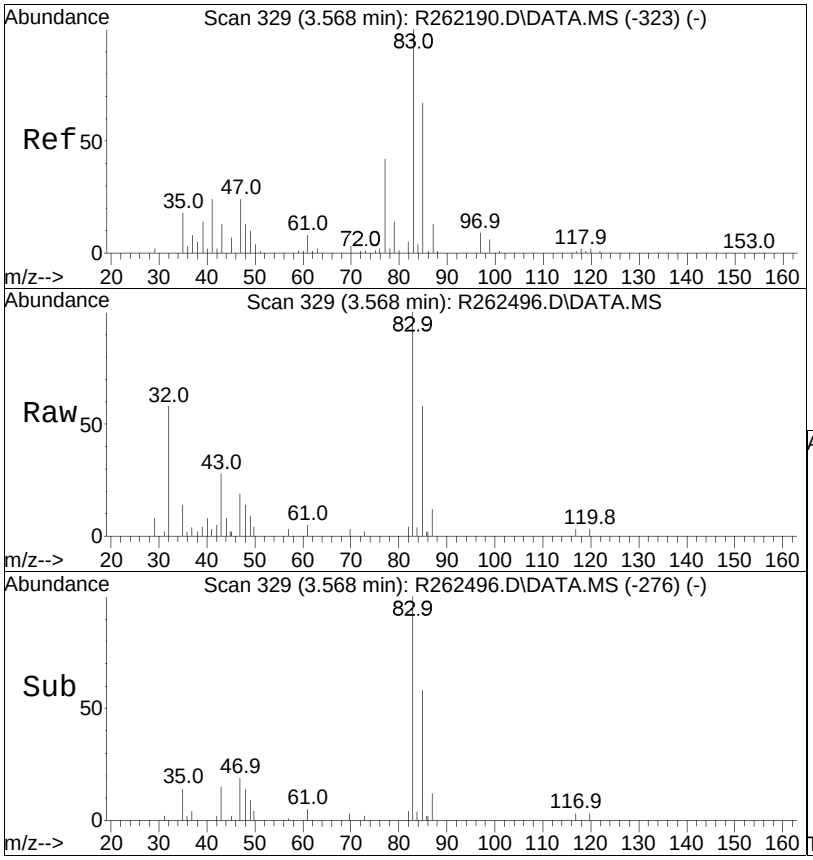


#38
Ethyl Acetate
Concen: 0.14 ppbV
RT: 3.561 min Scan# 328
Delta R.T. 0.008 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 61 Resp: 603

Ion	Ratio	Lower	Upper
61	100		
70	150.0	65.2	97.8#
43	847.3	1134.1	1701.1#

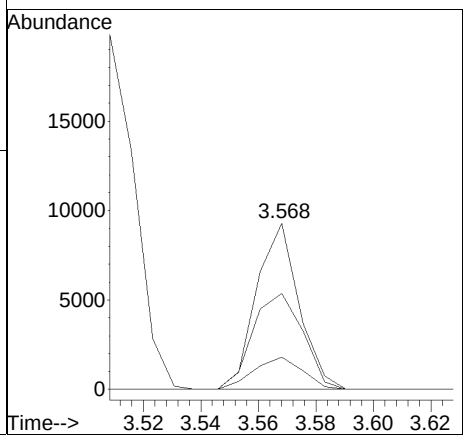


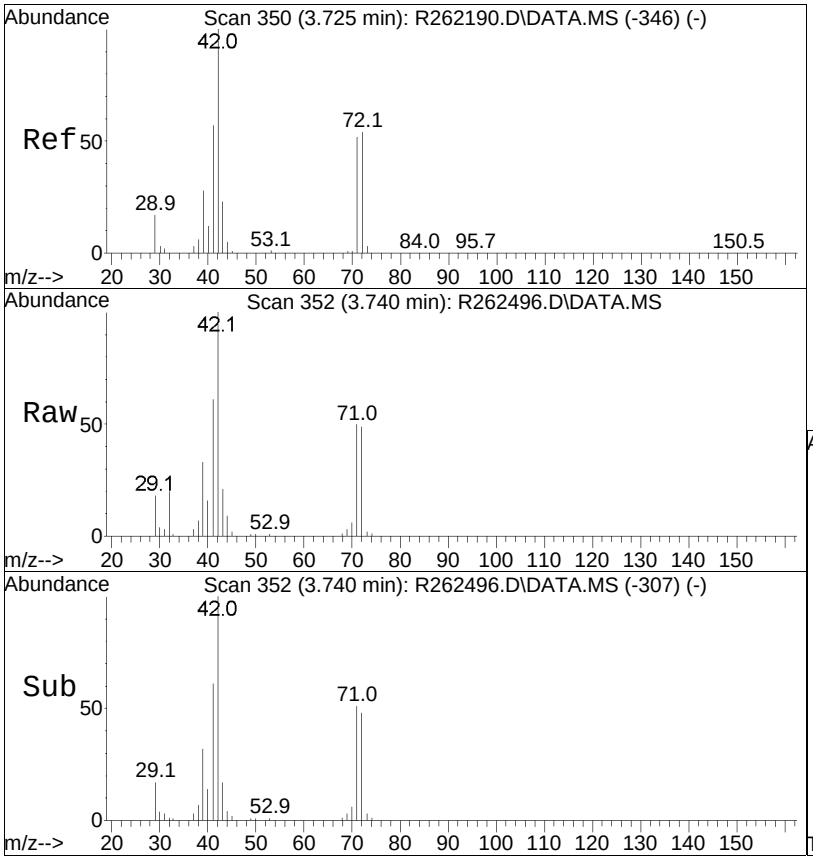


#39
chloroform
Concen: 0.31 ppbV
RT: 3.568 min Scan# 329
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 83 Resp: 9524

Ion	Ratio	Lower	Upper
83	100		
85	57.8	53.0	79.4
47	19.4	18.2	27.4

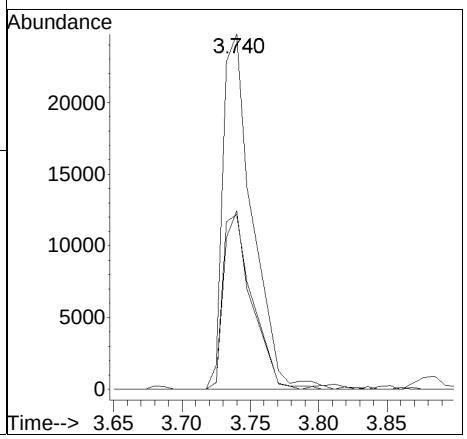


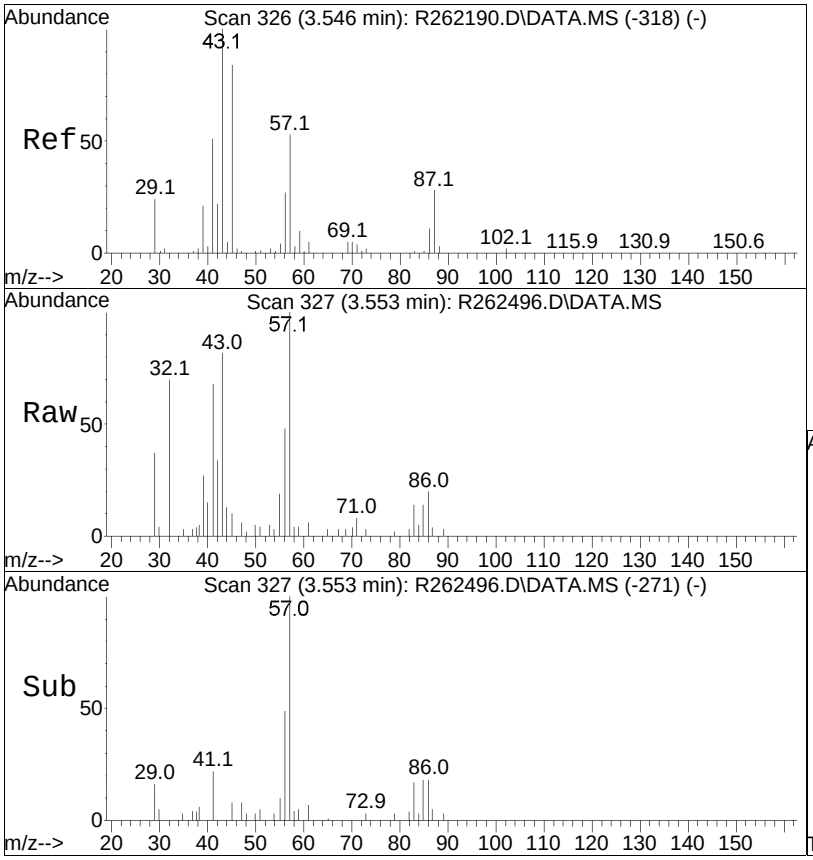


#40
Tetrahydrofuran
Concen: 3.70 ppbV
RT: 3.740 min Scan# 352
Delta R.T. 0.008 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 42 Resp: 36193

Ion	Ratio	Lower	Upper
42	100		
71	50.2	38.2	57.4
72	49.2	43.9	65.9

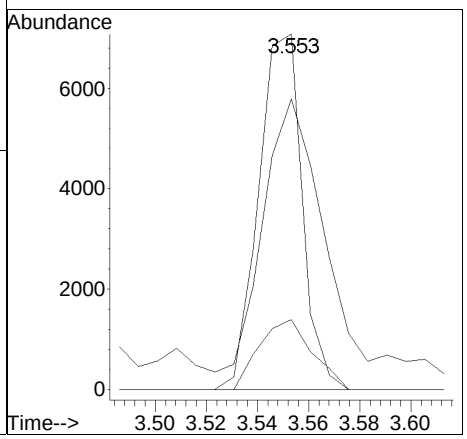


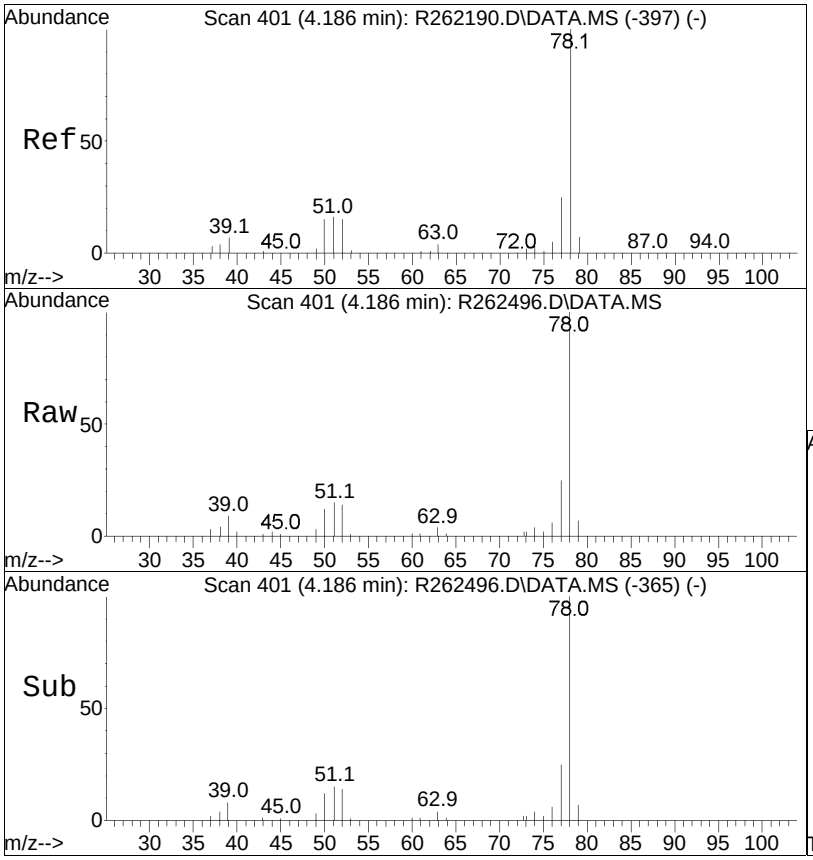


#44
hexane
Concen: 0.51 ppbV
RT: 3.553 min Scan# 327
Delta R.T. 0.008 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 57 Resp: 8394

Ion	Ratio	Lower	Upper
57	100		
43	81.8	161.1	241.7#
86	23.3	16.2	24.4

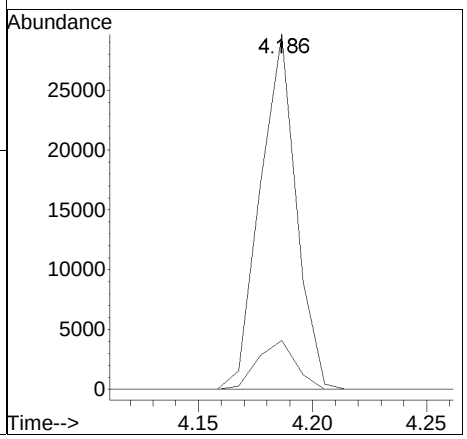


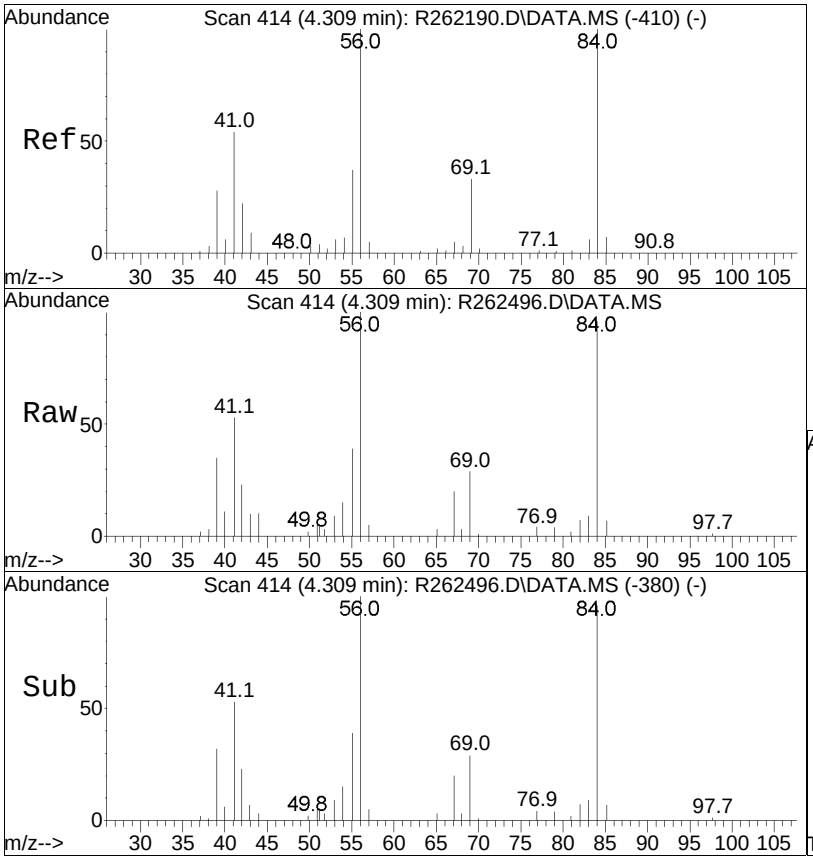


#50
benzene
Concen: 0.78 ppbV
RT: 4.186 min Scan# 401
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 78 Resp: 32637

Ion	Ratio	Lower	Upper
78	100		
52	13.8	10.8	16.2

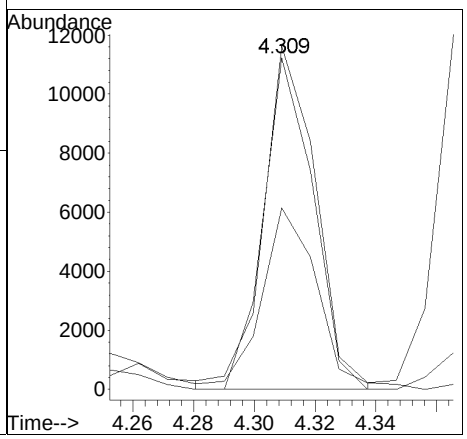


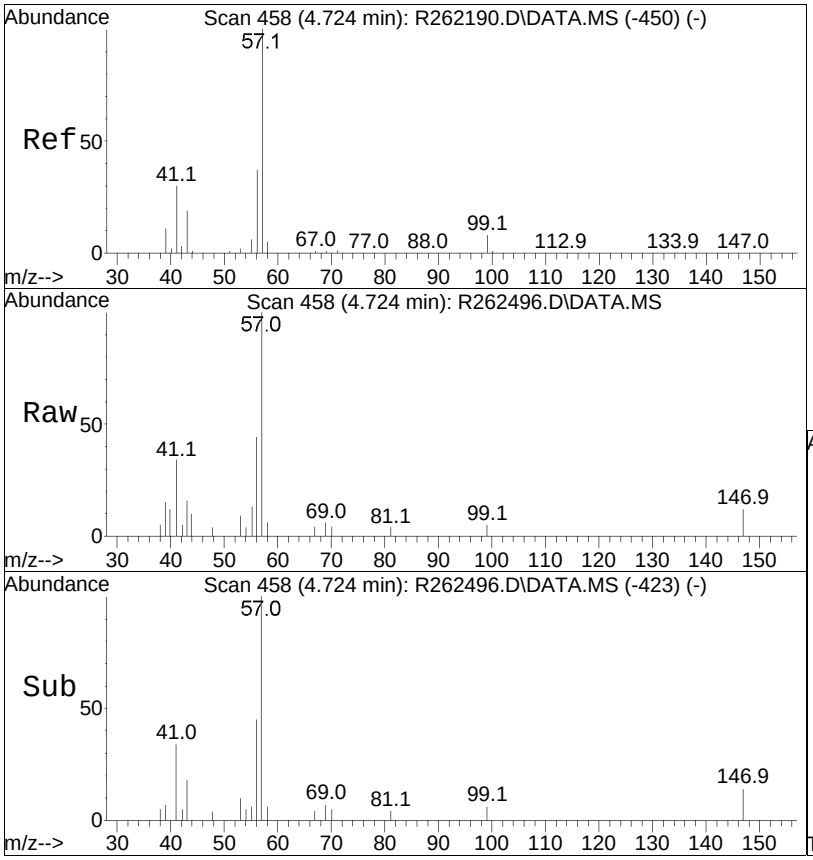


#53
cyclohexane
Concen: 0.83 ppbV
RT: 4.309 min Scan# 414
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 56 Resp: 13798

Ion	Ratio	Lower	Upper
56	100		
84	96.5	75.0	112.4
41	52.8	43.1	64.7

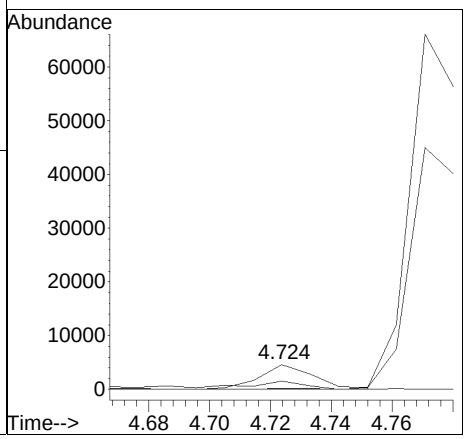


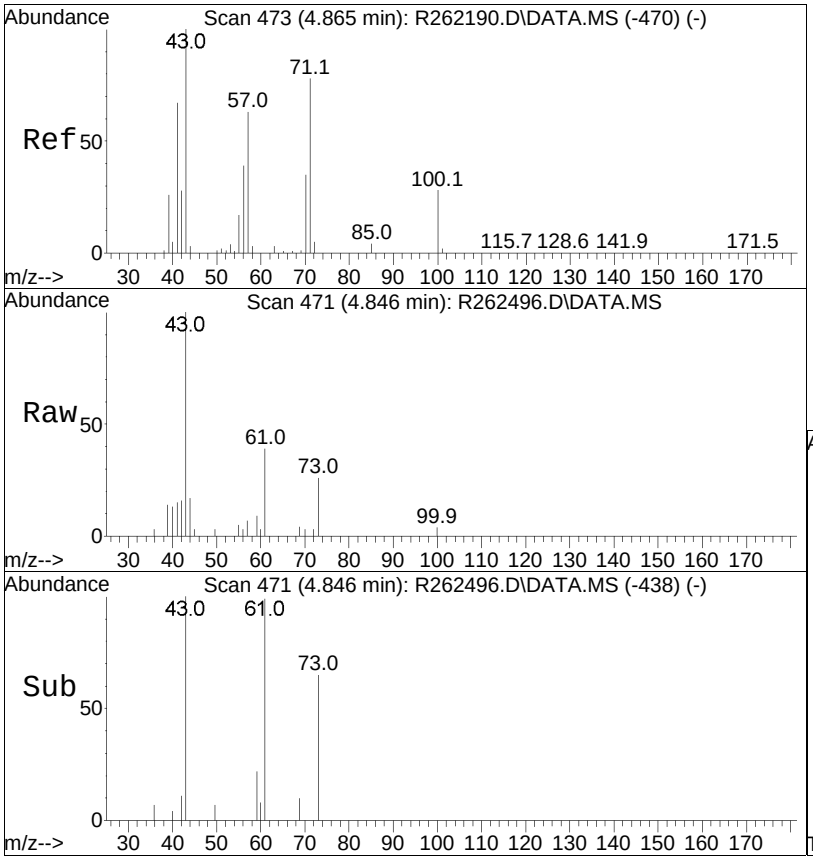


#60
2,2,4-trimethylpentane
Concen: 0.11 ppbV
RT: 4.724 min Scan# 458
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 57 Resp: 5800

Ion	Ratio	Lower	Upper
57	100		
99	5.0	5.8	8.6#
41	33.8	21.1	31.7#

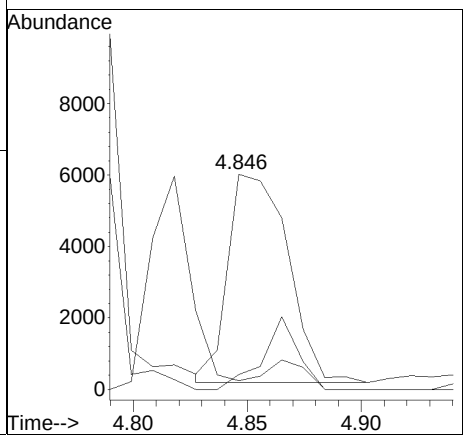


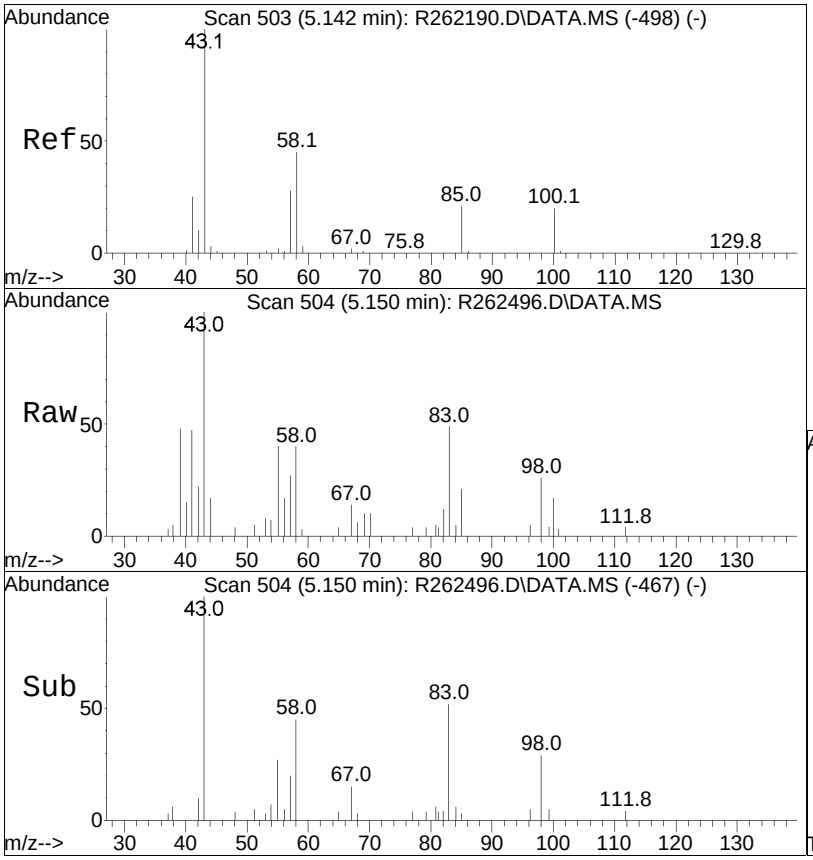


#62
heptane
Concen: 0.66 ppbV
RT: 4.846 min Scan# 471
Delta R.T. -0.019 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 43 Resp: 10623

Ion	Ratio	Lower	Upper
43	100		
57	6.9	47.4	71.0#
100	4.1	21.2	31.8#

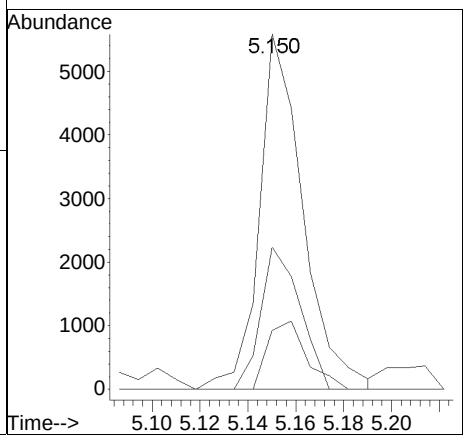


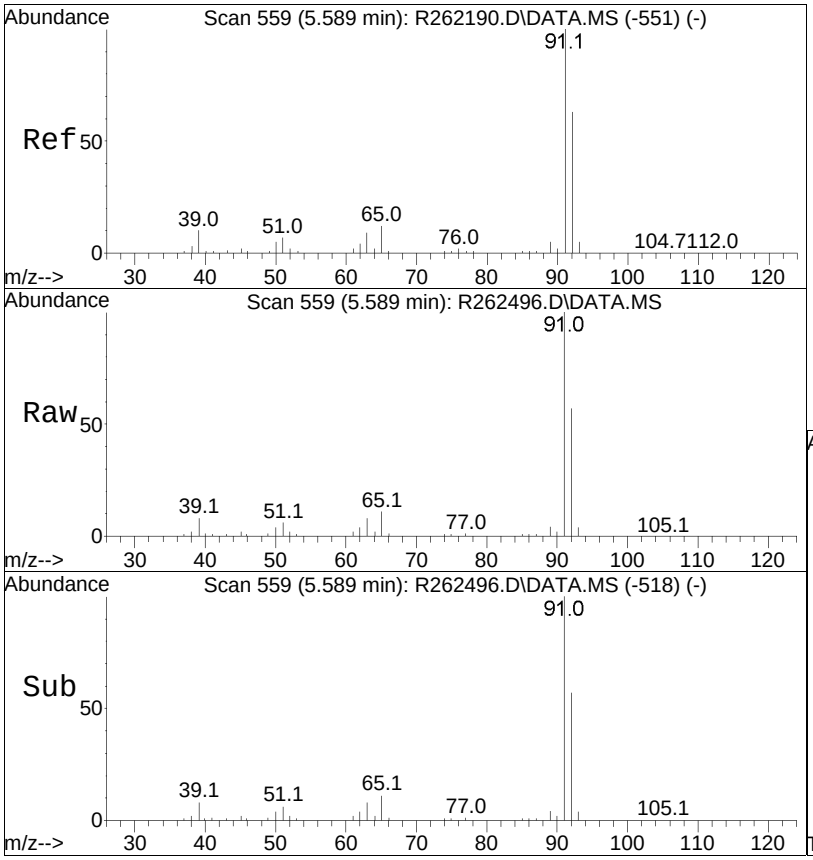


#64
4-methyl-2-pentanone
Concen: 0.31 ppbV
RT: 5.150 min Scan# 504
Delta R.T. 0.008 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 43 Resp: 7091

Ion	Ratio	Lower	Upper
43	100		
58	40.0	34.0	51.0
100	16.6	14.5	21.7

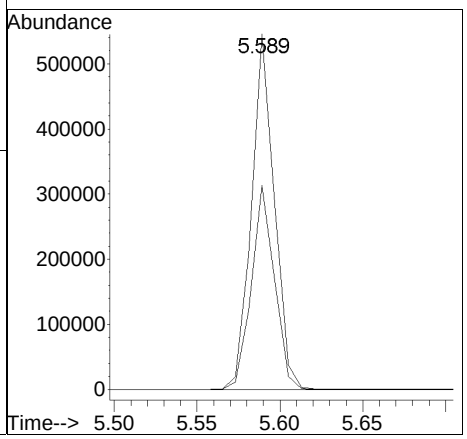


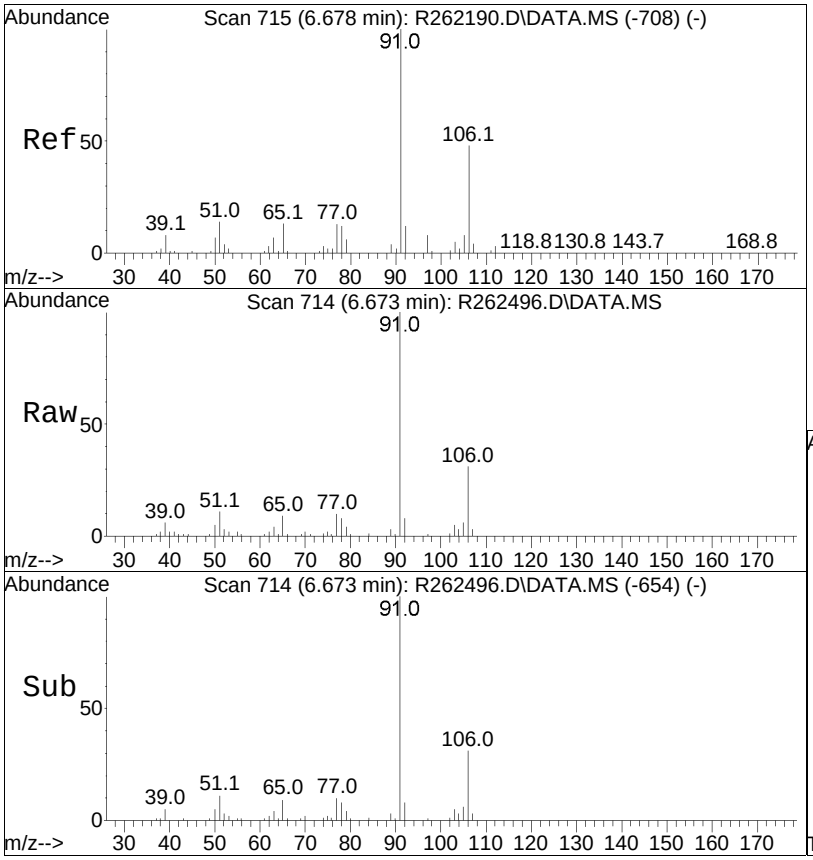


#68
toluene
Concen: 9.70 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 91 Resp: 523668

Ion	Ratio	Lower	Upper
91	100		
92	57.5	46.4	69.6

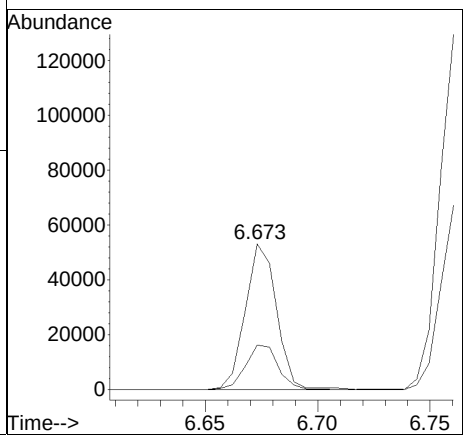


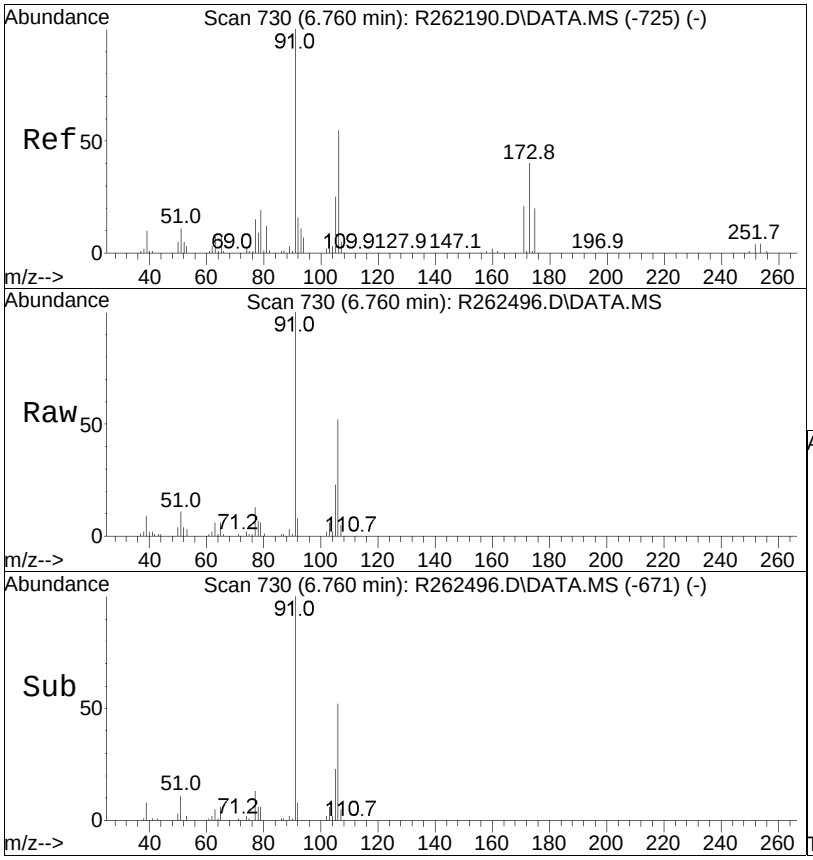


#81
ethylbenzene
Concen: 0.76 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 91 Resp: 51283

Ion	Ratio	Lower	Upper
91	100		
106	30.5	25.3	37.9

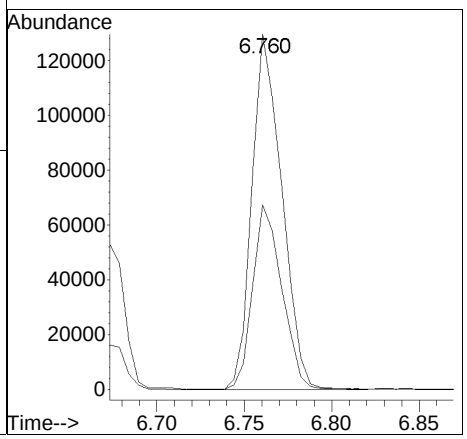


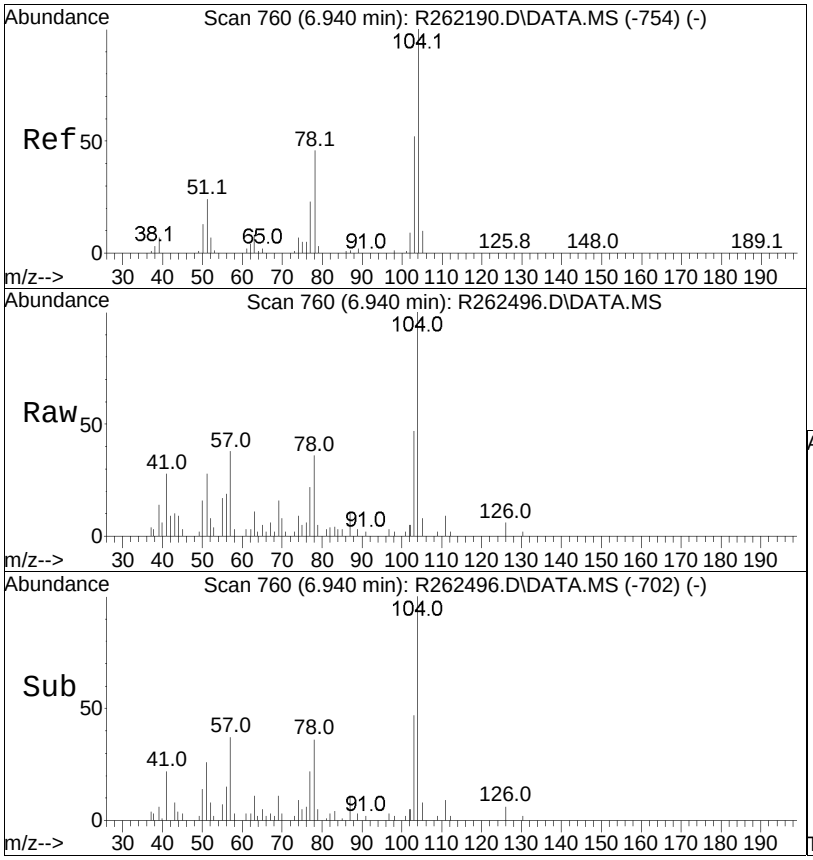


#83
m+p-xylene
Concen: 2.83 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 91 Resp: 154113

Ion	Ratio	Lower	Upper
91	100		
106	51.9	38.6	57.8

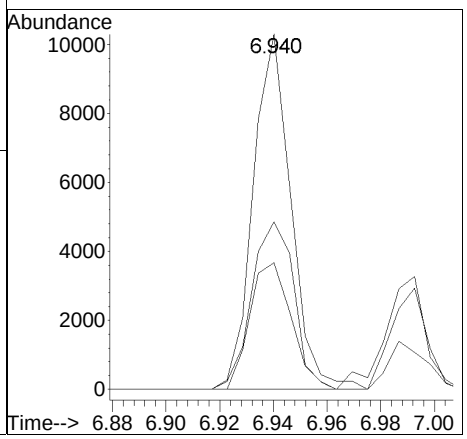


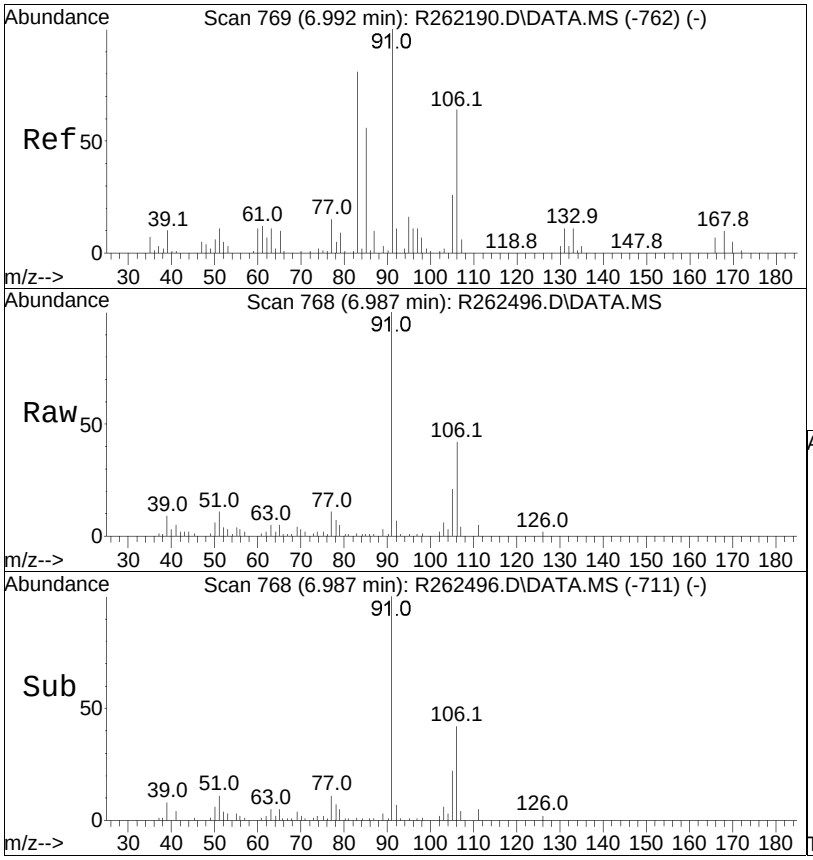


#85
styrene
Concen: 0.25 ppbV
RT: 6.940 min Scan# 760
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:104 Resp: 10074

Ion	Ratio	Lower	Upper
104	100		
103	47.2	38.0	57.0
78	35.6	30.8	46.2

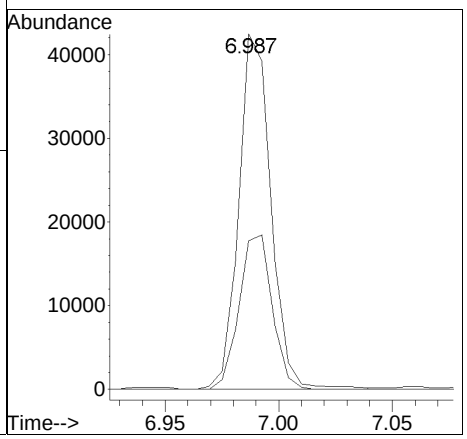


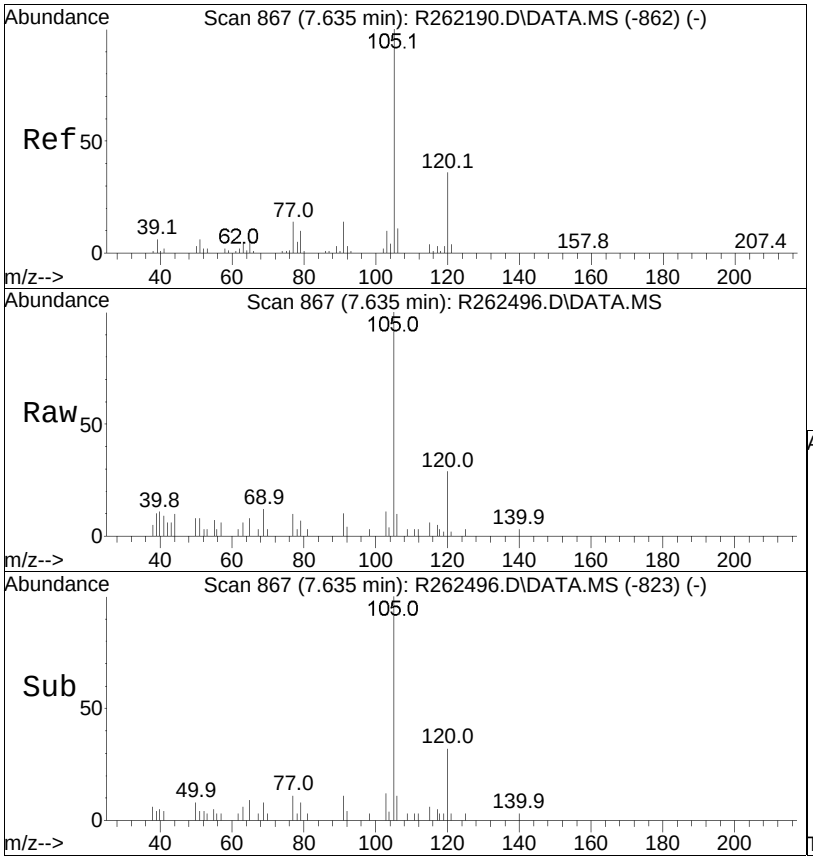


#87
o-xylene
Concen: 0.77 ppbV
RT: 6.987 min Scan# 768
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion: 91 Resp: 41933

Ion	Ratio	Lower	Upper
91	100		
106	41.9	39.2	58.8

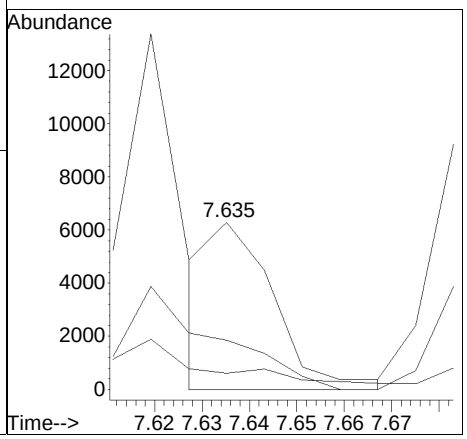


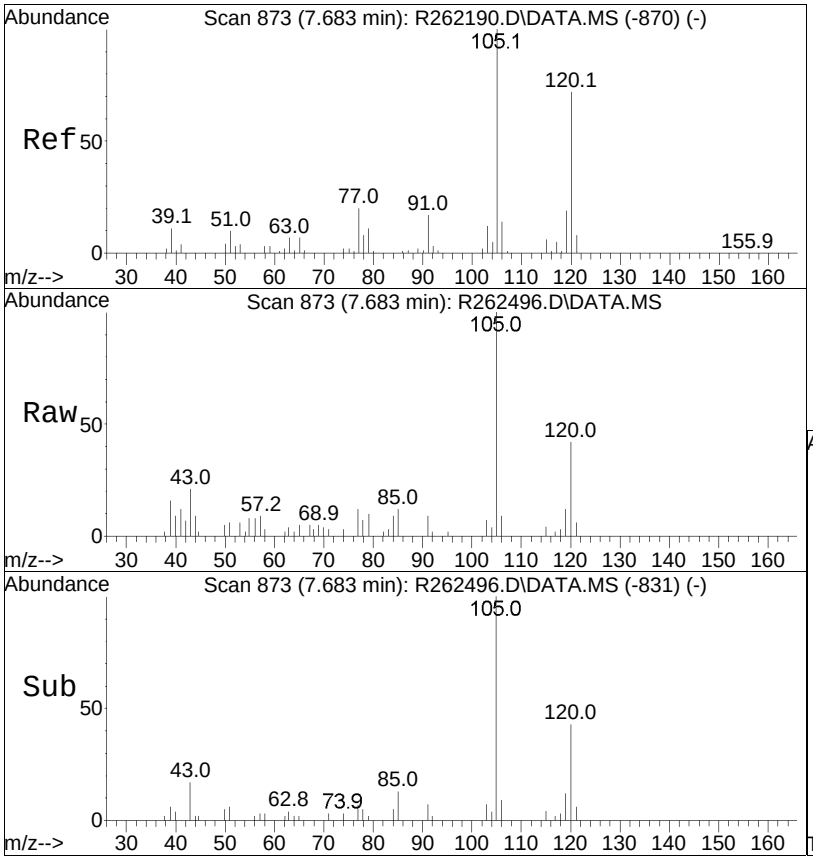


#96
4-ethyl toluene
Concen: 0.09 ppbV m
RT: 7.635 min Scan# 867
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:105 Resp: 5932

Ion	Ratio	Lower	Upper
105	100		
120	29.5	24.4	36.6
91	9.7	8.8	13.2

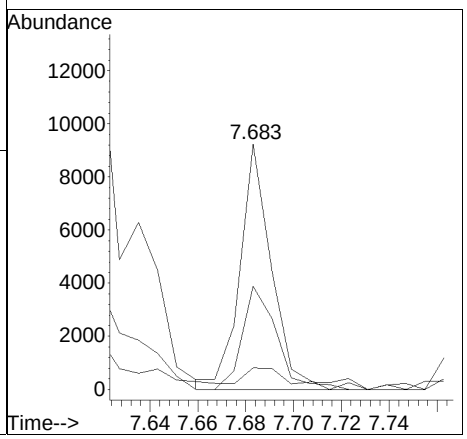


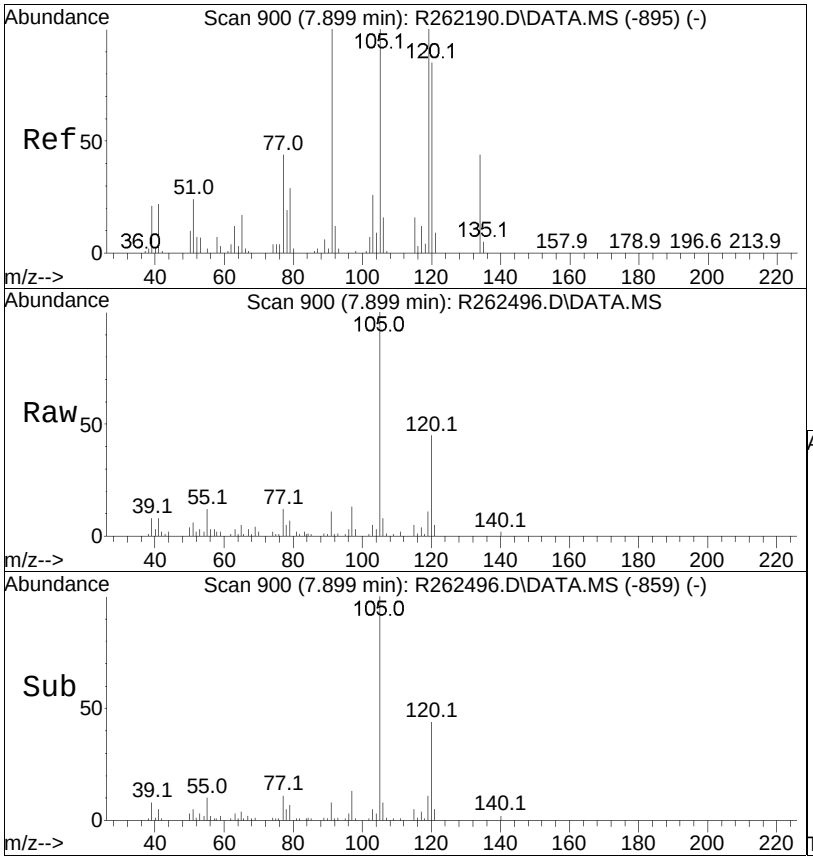


#97
1,3,5-trimethylbenzene
Concen: 0.14 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:105 Resp: 8524

Ion	Ratio	Lower	Upper
105	100		
120	42.0	40.1	60.1
91	8.8	8.4	12.6

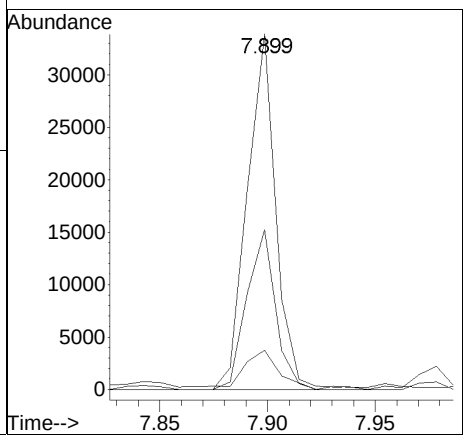


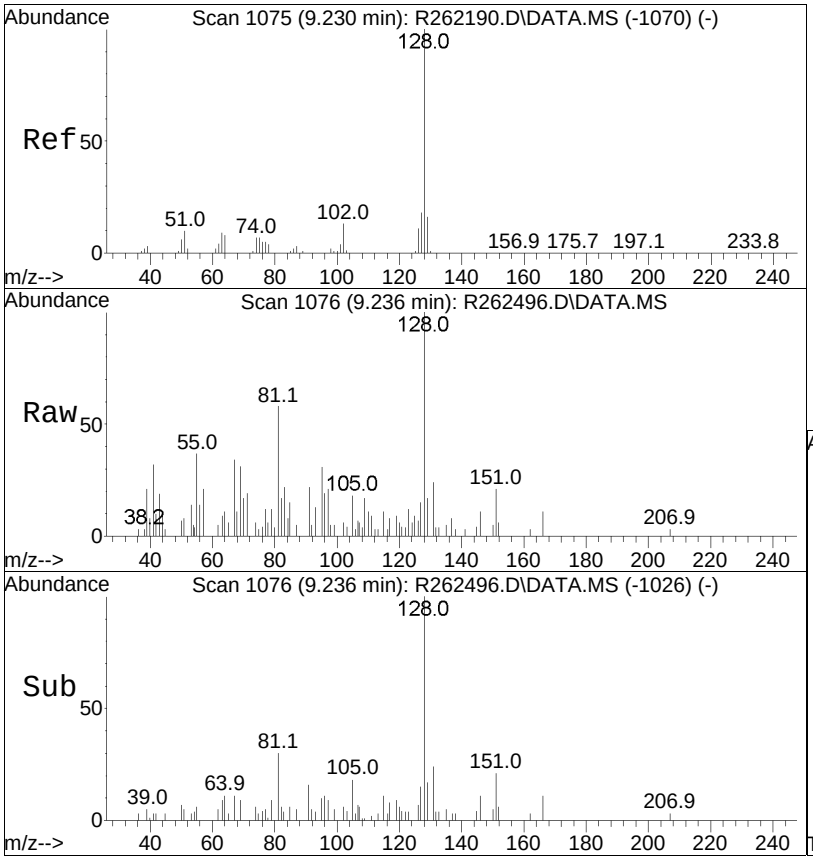


#99
1,2,4-trimethylbenzene
Concen: 0.48 ppbV
RT: 7.899 min Scan# 900
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:105 Resp: 31311

Ion	Ratio	Lower	Upper
105	100		
120	44.9	43.6	65.4
91	11.0	37.5	56.3#

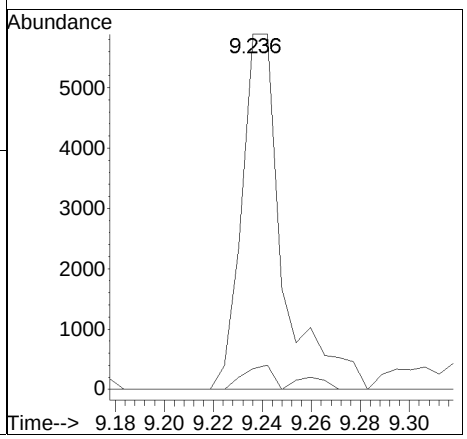




#116
naphthalene
Concen: 0.07 ppbV
RT: 9.236 min Scan# 1076
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:128 Resp: 6861

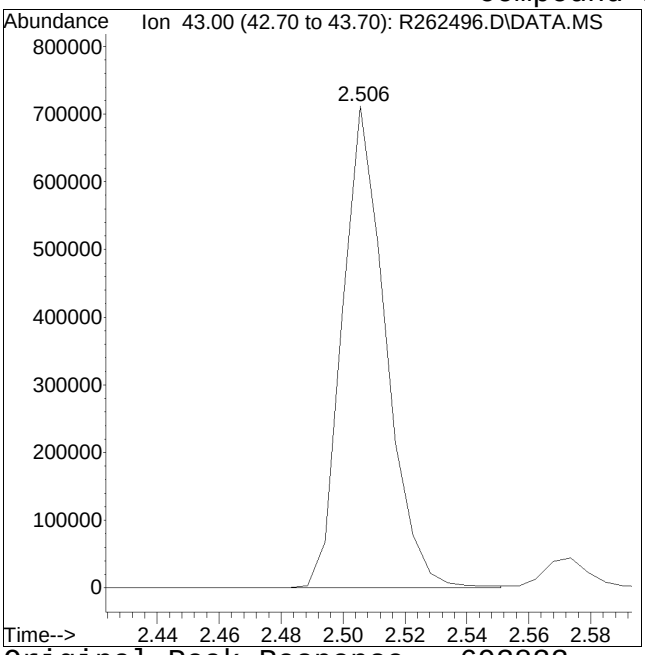
Ion	Ratio	Lower	Upper
128	100		
102	5.9	6.4	9.6#



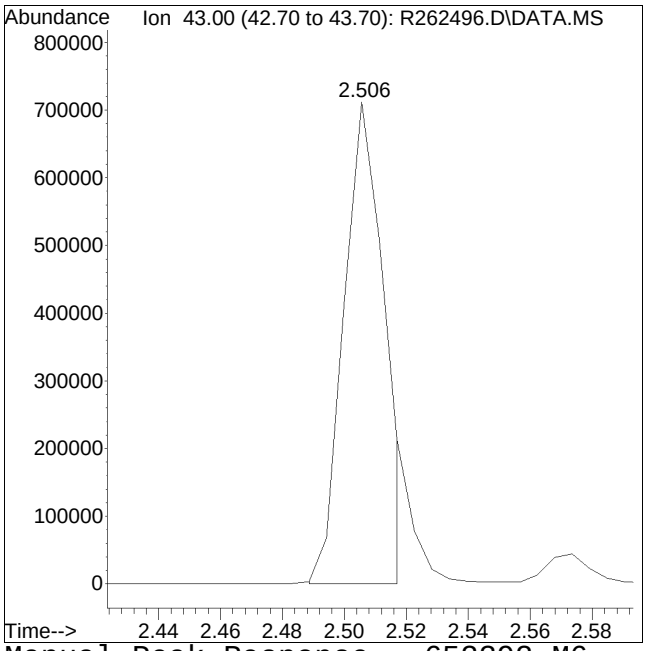
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262496.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 10:48 pm Instrument : Airlab26
Sample : L2514968-06,3,250,250 Quant Date : 3/28/2025 6:51 am

Compound #19: acetone



Original Peak Response = 693833



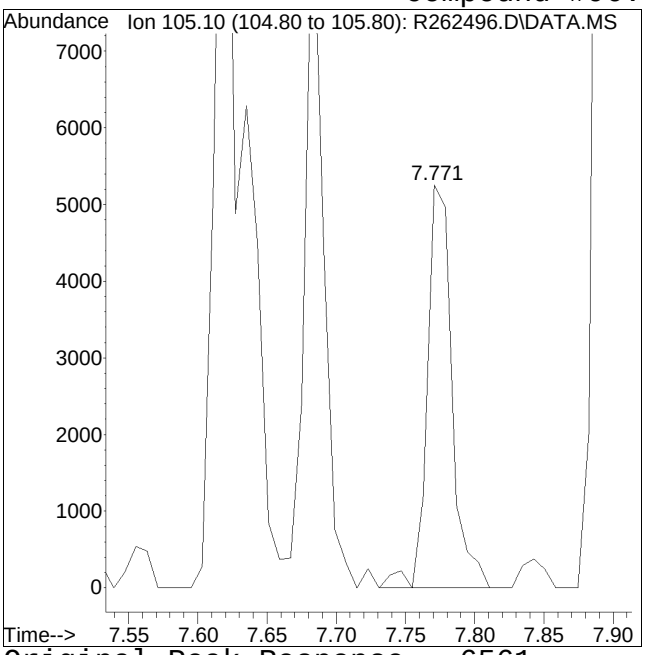
Manual Peak Response = 652392 M6

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

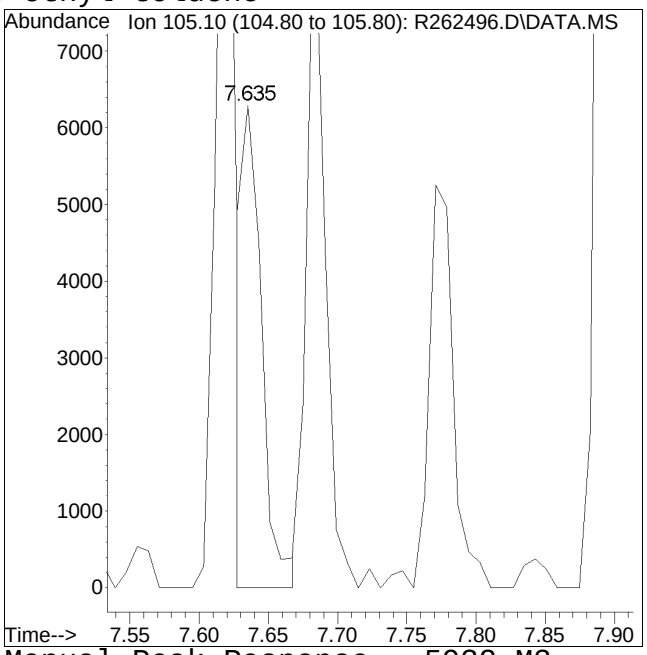
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262496.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 10:48 pm Instrument : Airlab26
Sample : L2514968-06,3,250,250 Quant Date : 3/28/2025 6:51 am

Compound #96: 4-ethyl toluene



Original Peak Response = 6561



Manual Peak Response = 5932 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.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22092**
Calibration dates	**: 03/14/25 22:06 03/15/25 02:06**		

Calibration Files

0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D

50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.354	0.163	0.293	0.250	0.434	0.434	0.286	0.451	0.333	30.98#
3)		propylene		0.223	0.225	0.162	0.176	0.233	0.268	0.303	0.227	21.53
4)		propane		0.166	0.138	0.143	0.164	0.163	0.182	0.204	0.166	13.40
5)		dichlorodifluoromethane	1.802	1.680	1.724	1.747	1.828	1.742	1.781	1.875	1.773	3.50
6)	C	chloromethane	0.675	0.632	0.597	0.623	0.636	0.594	0.589	0.587	0.617	5.00
7)		Freon-114	2.275	2.366	2.312	2.417	2.455	2.329	2.390	2.409	2.369	2.55
8)	C	methanol			0.156	0.153	0.166	0.152	0.169	0.158	0.159	4.30
9)	C	vinyl chloride	0.824	0.857	0.785	0.822	0.806	0.766	0.754	0.760	0.797	4.58
10)	C	1,3-butadiene	0.507	0.523	0.515	0.387	0.392	0.484	0.487	0.488	0.473	11.31
11)		butane	1.105	0.979	0.980	0.927	0.934	0.895	0.887	0.904	0.951	7.51
12)	C	acetaldehyde		0.438	0.420	0.382	0.370	0.362	0.383	0.402	0.394	6.97
13)	C	bromomethane	0.944	0.868	0.831	0.846	0.840	0.793	0.789	0.794	0.838	6.16
14)	C	chloroethane	0.596	0.477	0.458	0.449	0.455	0.425	0.419	0.422	0.463	12.48
15)		ethanol			0.499	0.461	0.416	0.428	0.437	0.474	0.452	6.89
16)		dichlorofluoromethane	2.466	1.970	1.929	2.206	2.157	2.045	2.069	2.098	2.117	7.91
17)	C	vinyl bromide	0.969	0.934	1.090	0.726	0.813	0.996	0.965	1.017	0.939	12.41
18)	C	acrolein		0.477	0.429	0.443	0.411	0.394	0.391	0.410	0.422	7.20
19)		acetone	1.509	1.464	1.372	1.028	1.003	1.236	1.146	0.761	1.190	21.53
20)	C	acetonitrile	0.813	0.696	0.826	0.754	0.742	0.693	0.677	0.725	0.741	7.43
21)		trichlorofluoromethane	3.188	3.274	3.139	3.276	3.234	3.041	2.952	2.744	3.106	5.96
22)		isopropyl alcohol	1.715	1.594	1.593	1.224	1.109	1.474	1.436	1.248	1.424	14.90
23)	C	acrylonitrile	1.000	0.921	0.910	0.974	0.961	0.902	0.894	0.886	0.931	4.51
24)		pentane	1.951	2.039	2.184	1.852	2.025	1.743	1.906	1.863	1.945	7.01
25)		ethyl ether	1.001	1.001	0.919	1.026	0.904	0.962	0.978	0.965	0.970	4.30
26)	C	1,1-dichloroethene	2.432	2.382	2.232	2.340	2.279	2.139	2.077	1.999	2.235	6.82
27)		tertiary butyl alcohol		2.712	2.516	2.694	2.448	2.508	2.468	2.338	2.526	5.31
28)	C	methylene chloride		1.401	1.415	1.371	1.341	1.226	1.194	1.152	1.300	8.23
29)	C	3-chloropropene	1.325	1.266	1.310	0.976	0.961	1.170	1.149	1.126	1.161	12.01
30)	C	carbon disulfide	3.200	3.166	3.112	2.495	2.429	3.020	2.947	2.910	2.910	10.13
31)		Freon 113	2.704	2.785	2.683	2.772	2.716	2.530	2.466	2.278	2.617	6.76
32)		trans-1,2-dichloroethene	1.804	1.683	1.700	1.349	1.330	1.620	1.573	1.517	1.572	10.66
33)	C	1,1-dichloroethane	2.448	2.422	2.335	2.444	2.372	2.188	2.110	2.007	2.291	7.34
34)	C	MTBE	3.486	3.288	3.241	2.502	2.490	3.079	3.007	2.833	2.991	12.11
35)	C	vinyl acetate			2.422	1.642	1.670	2.252	2.355	2.216	2.093	16.54
36)	C	2-butanone		1.175	1.099	0.865	0.857	1.119	1.319	1.301	1.105	16.89

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22092**
Calibration dates	**: 03/14/25 22:06 03/15/25 02:06**		

Calibration Files

0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D

50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	0.935	0.962	0.953	0.978	0.989	0.958	0.981	0.986	0.968	1.93
38)		Ethyl Acetate		0.228	0.241	0.151	0.200	0.208	0.270	0.302	0.229	21.59
39)	C	chloroform	1.712	1.588	1.544	1.717	1.709	1.673	1.698	1.760	1.675	4.33
40)		Tetrahydrofuran		0.499	0.619	0.371	0.397	0.531	0.556	0.732	0.529	23.58
41)		2,2-dichloropropane	1.191	1.226	1.155	1.288	1.333	1.320	1.393	1.450	1.294	7.76
42)	C	1,2-dichloroethane	1.202	1.054	1.045	1.084	1.077	1.023	1.038	1.035	1.070	5.37
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.287	0.271	0.276	0.205	0.211	0.272	0.282	0.299	0.263	13.39
45)		diisopropyl ether	0.217	0.221	0.212	0.219	0.229	0.231	0.244	0.267	0.230	7.85
46)		tert-butyl ethyl ether	0.616	0.671	0.552	0.610	0.609	0.575	0.610	0.584	0.604	5.85
47)	s	1,2-dichloroethane-D4	0.329	0.329	0.325	0.319	0.309	0.298	0.297	0.342	0.319	5.01
48)	C	1,1,1-trichloroethane	0.506	0.465	0.472	0.505	0.495	0.481	0.550	0.563	0.504	7.06
49)		1,1-dichloropropene	0.324	0.325	0.323	0.382	0.388	0.387	0.385	0.394	0.363	9.05
50)	C	benzene	0.666	0.666	0.661	0.709	0.672	0.648	0.653	0.643	0.665	3.08
51)		thiophene	0.583	0.536	0.523	1.349	1.377	0.551	0.553	0.569	0.755	49.78#
52)	C	carbon tetrachloride	0.476	0.514	0.494	0.526	0.525	0.508	0.526	0.542	0.514	4.07
53)		cyclohexane	0.265	0.300	0.281	0.217	0.216	0.276	0.278	0.281	0.264	11.74
54)		tert-amyl methyl ether	0.599	0.583	0.546	0.577	0.589	0.594	0.603	0.613	0.588	3.48
55)		dibromomethane	0.275	0.297	0.302	0.295	0.294	0.293	0.293	0.300	0.294	2.85
56)	C	1,2-dichloropropane	0.243	0.247	0.230	0.246	0.242	0.235	0.232	0.234	0.239	2.81
57)		bromodichloromethane	0.460	0.461	0.485	0.373	0.367	0.464	0.474	0.480	0.446	10.65
58)	C	1,4-dioxane	0.131	0.138	0.143	0.104	0.103	0.146	0.151	0.165	0.135	16.10
59)	C	trichloroethene	0.308	0.339	0.313	0.339	0.351	0.338	0.347	0.373	0.339	6.17
60)	C	2,2,4-trimethylpentane	0.869	0.857	0.864	0.692	0.693	0.885	0.881	0.853	0.824	9.95
61)		methyl methacrylate		0.236	0.220	0.230	0.235	0.232	0.238	0.245	0.234	3.35
62)		heptane	0.262	0.281	0.246	0.223	0.215	0.277	0.280	0.280	0.258	10.48
63)	C	cis-1,3-dichloropropene	0.378	0.325	0.350	0.365	0.371	0.365	0.376	0.381	0.364	5.06
64)	C	4-methyl-2-pentanone		0.380	0.355	0.297	0.302	0.384	0.399	0.399	0.359	12.18
65)		trans-1,3-dichloropropene	0.243	0.272	0.275	0.293	0.303	0.302	0.318	0.323	0.291	9.15
66)	C	1,1,2-trichloroethane	0.271	0.275	0.292	0.306	0.308	0.297	0.295	0.308	0.294	4.86
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	5.555	5.108	5.035	5.424	5.578	5.408	5.326	4.995	5.303	4.33
69)	s	toluene-D8	5.447	5.346	5.447	5.497	5.642	5.448	5.493	5.405	5.466	1.58
70)		2-methylthiophene	0.493	0.465	0.466	1.385	1.430	0.523	0.526	0.500	0.724	58.42#
71)		1,3-dichloropropane	2.611	2.396	2.555	2.598	2.669	2.600	2.618	2.614	2.583	3.16
72)		2-hexanone	2.090	2.055	2.139	1.858	1.953	2.452	2.486	2.465	2.187	11.32

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22092**
Calibration dates	**: 03/14/25 22:06 03/15/25 02:06**		

Calibration Files
0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D
50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	0.502	0.481	0.491	1.503	1.547	0.555	0.560	0.520	0.770	60.66#
74)		dibromochloromethane	2.889	2.828	2.957	2.382	2.523	3.318	3.502	3.443	2.980	13.89
75)	C	1,2-dibromoethane	2.794	2.662	2.711	3.022	3.090	3.105	3.138	3.006	2.941	6.44
76)		butyl acetate		0.465	0.541	0.630	0.668	0.678	0.697	0.707	0.627	14.46
77)		octane	1.414	1.489	1.528	1.646	1.704	1.708	1.759	1.898	1.643	9.65
78)	C	tetrachloroethene	2.246	2.700	2.564	2.833	3.039	2.982	3.136	3.271	2.846	11.74
79)		1,1,1,2-tetrachloroethane	2.100	2.120	2.093	2.386	2.427	2.522	2.698	2.891	2.405	12.26
80)	C	chlorobenzene	3.739	4.306	4.212	4.538	4.674	4.563	4.737	4.769	4.442	7.78
81)	C	ethylbenzene	6.219	5.851	6.226	7.175	7.471	7.112	7.138	6.186	6.672	9.16
82)		2-ethylthiophene	0.559	0.550	0.555	1.758	1.825	0.657	0.662	0.553	0.890	62.78#
83)	C	m+p-xylene	4.775	4.942	5.210	5.781	5.950	5.891	6.022	4.288	5.357	12.08
84)	C	bromoform	2.257	2.379	2.488	2.306	2.537	3.564	4.141	4.371	3.005	29.21
85)	C	styrene	3.051	3.450	3.489	4.096	4.441	4.287	4.437	4.274	3.941	13.53
86)	C	1,1,2,2-tetrachloroethane	3.889	3.796	3.911	4.387	4.479	4.303	4.443	4.501	4.214	7.04
87)	C	o-xylene	4.863	4.719	4.966	5.661	5.902	5.621	5.773	5.525	5.379	8.49
88)		1,2,3-trichloropropane	2.860	2.952	2.786	3.081	3.136	3.061	3.109	3.082	3.008	4.25
89)		nonane	2.470	2.383	2.478	2.835	2.960	2.907	2.966	3.036	2.754	9.62
90)	s	bromofluorobenzene	3.094	3.172	3.220	3.402	3.465	3.352	3.378	3.387	3.309	3.92
91)	C	isopropylbenzene	6.981	6.788	7.102	7.824	8.145	8.001	7.953	5.851	7.331	10.81
92)		bromobenzene	3.030	3.103	4.638	4.014	4.044	4.958	3.261	3.681	3.841	18.45
93)		2-chlorotoluene	2.031	1.837	1.833	2.046	2.150	2.103	2.163	2.271	2.054	7.51
94)		n-propylbenzene	2.074	1.877	1.902	2.225	2.420	2.389	2.593	2.829	2.289	14.60
95)		4-chlorotoluene	1.846	1.727	1.882	2.201	2.320	2.256	2.446	2.606	2.161	14.43
96)		4-ethyl toluene	6.000	5.976	6.325	5.702	5.959	7.596	7.636	5.880	6.384	12.21
97)		1,3,5-trimethylbenzene	5.066	5.321	5.499	6.469	6.999	6.528	6.629	5.683	6.024	11.86
98)		tert-butylbenzene	5.474	5.982	6.082	7.314	7.779	7.618	8.132	6.664	6.881	14.08
99)		1,2,4-trimethylbenzene	5.425	5.088	5.713	6.913	7.302	7.131	7.538	5.956	6.383	14.80
100)		decane	2.560	2.983	3.326	3.773	3.962	3.921	4.232	4.474	3.654	17.74
101)	C	Benzyl Chloride	2.725	2.782	2.968	2.977	3.521	5.044	5.946	5.399	3.920	33.72#
102)		1,3-dichlorobenzene	4.259	4.043	4.341	5.059	5.402	5.129	5.564	5.016	4.852	11.62
103)	C	1,4-dichlorobenzene	4.406	4.280	4.327	5.097	5.361	5.293	5.837	5.032	4.954	11.41
104)		sec-butylbenzene	0.806	0.872	0.904	1.011	1.040	1.008	1.000	0.619	0.907	15.68
105)		1,2,3-trimethylbenzene	5.332	5.839	6.116	7.235	7.525	7.395	7.588	6.335	6.670	13.07
106)		p-isopropyltoluene	6.818	7.384	7.932	9.577	9.854	9.760	9.686	6.905	8.490	16.01
107)		1,2-dichlorobenzene	3.760	3.991	4.144	5.026	5.274	5.045	5.267	4.868	4.672	13.03
108)		n-butylbenzene	6.056	6.686	6.986	8.159	8.740	8.501	8.337	5.925	7.424	15.38

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22092**
Calibration dates	**: 03/14/25 22:06 03/15/25 02:06**		

Calibration Files
0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D
50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	5.522	5.138	5.330	6.283	6.421	6.524	6.698	5.619	5.942	10.17
110)		indene	3.672	3.788	4.188	4.901	5.309	5.300	5.440	5.264	4.733	15.53
111)	C	1,2-dibromo-3-chloropr...	1.643	1.704	1.790	2.124	2.314	2.250	2.474	2.815	2.139	19.11
112)		undecane	3.521	3.472	3.507	4.552	4.916	4.766	5.090	4.738	4.320	16.11
113)		1,2,4,5-tetramethylben...	1.962	2.377	2.348	4.121	4.308	3.141	3.363	3.555	3.147	27.24
114)		dodecane	2.609	3.165	3.757	5.669	6.353	5.606	6.310	4.972	4.805	30.14#
115)	C	1,2,4-trichlorobenzene	3.066	3.092	3.578	4.392	5.031	4.880	5.709	5.415	4.395	23.61
116)		naphthalene	0.648	0.720	0.976	1.045	1.180	1.107	1.044	0.646	0.921	23.44
117)		1,2,3-trichlorobenzene	2.715	2.631	3.431	5.381	5.647	4.986	5.787	5.322	4.488	29.75
118)		benzothiophene	2.392	2.622	3.613	5.230	6.001	4.508	5.176	4.828	4.296	30.19#
119)	C	hexachlorobutadiene	2.345	2.800	3.022	3.999	4.338	4.313	5.360	4.834	3.876	27.18
120)		2-methylnaphthalene			0.319	0.970	1.254	0.666	0.857	0.821	0.815	38.32#
121)		1-methylnaphthalene			0.515	1.470	1.750	0.957	1.169	0.793	1.109	40.72#

Response Factor Report Airlab26

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Method File : TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D
50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoro...	0.354	0.163	0.293	0.250	0.434	0.434	0.286	0.451	0.333	30.98#
3)		propylene		0.223	0.225	0.162	0.176	0.233	0.268	0.303	0.227	21.53
4)		propane		0.166	0.138	0.143	0.164	0.163	0.182	0.204	0.166	13.40
5)		dichlorodifluo...	1.802	1.680	1.724	1.747	1.828	1.742	1.781	1.875	1.773	3.50
6)	C	chloromethane	0.675	0.632	0.597	0.623	0.636	0.594	0.589	0.587	0.617	5.00
7)		Freon-114	2.275	2.366	2.312	2.417	2.455	2.329	2.390	2.409	2.369	2.55
8)	C	methanol			0.156	0.153	0.166	0.152	0.169	0.158	0.159	4.30
9)	C	vinyl chloride	0.824	0.857	0.785	0.822	0.806	0.766	0.754	0.760	0.797	4.58
10)	C	1,3-butadiene	0.507	0.523	0.515	0.387	0.392	0.484	0.487	0.488	0.473	11.31
11)		butane	1.105	0.979	0.980	0.927	0.934	0.895	0.887	0.904	0.951	7.51
12)	C	acetaldehyde		0.438	0.420	0.382	0.370	0.362	0.383	0.402	0.394	6.97
13)	C	bromomethane	0.944	0.868	0.831	0.846	0.840	0.793	0.789	0.794	0.838	6.16
14)	C	chloroethane	0.596	0.477	0.458	0.449	0.455	0.425	0.419	0.422	0.463	12.48
15)		ethanol			0.499	0.461	0.416	0.428	0.437	0.474	0.452	6.89
16)		dichlorofluoro...	2.466	1.970	1.929	2.206	2.157	2.045	2.069	2.098	2.117	7.91
17)	C	vinyl bromide	0.969	0.934	1.090	0.726	0.813	0.996	0.965	1.017	0.939	12.41
18)	C	acrolein		0.477	0.429	0.443	0.411	0.394	0.391	0.410	0.422	7.20
19)		acetone	1.509	1.464	1.372	1.028	1.003	1.236	1.146	0.761	1.190	21.53
20)	C	acetonitrile	0.813	0.696	0.826	0.754	0.742	0.693	0.677	0.725	0.741	7.43
21)		trichlorofluor...	3.188	3.274	3.139	3.276	3.234	3.041	2.952	2.744	3.106	5.96
22)		isopropyl alcohol	1.715	1.594	1.593	1.224	1.109	1.474	1.436	1.248	1.424	14.90
23)	C	acrylonitrile	1.000	0.921	0.910	0.974	0.961	0.902	0.894	0.886	0.931	4.51
24)		pentane	1.951	2.039	2.184	1.852	2.025	1.743	1.906	1.863	1.945	7.01
25)		ethyl ether	1.001	1.001	0.919	1.026	0.904	0.962	0.978	0.965	0.970	4.30
26)	C	1,1-dichloroet...	2.432	2.382	2.232	2.340	2.279	2.139	2.077	1.999	2.235	6.82
27)		tertiary butyl...		2.712	2.516	2.694	2.448	2.508	2.468	2.338	2.526	5.31
28)	C	methylene chlo...		1.401	1.415	1.371	1.341	1.226	1.194	1.152	1.300	8.23
29)	C	3-chloropropene	1.325	1.266	1.310	0.976	0.961	1.170	1.149	1.126	1.161	12.01
30)	C	carbon disulfide	3.200	3.166	3.112	2.495	2.429	3.020	2.947	2.910	2.910	10.13
31)		Freon 113	2.704	2.785	2.683	2.772	2.716	2.530	2.466	2.278	2.617	6.76

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Method File : TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D
50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dich...	1.804	1.683	1.700	1.349	1.330	1.620	1.573	1.517	1.572	10.66
33)	C	1,1-dichloroet...	2.448	2.422	2.335	2.444	2.372	2.188	2.110	2.007	2.291	7.34
34)	C	MTBE	3.486	3.288	3.241	2.502	2.490	3.079	3.007	2.833	2.991	12.11
35)	C	vinyl acetate			2.422	1.642	1.670	2.252	2.355	2.216	2.093	16.54
36)	C	2-butanone			1.175	1.099	0.865	0.857	1.119	1.319	1.301	1.105	16.89
37)		cis-1,2-dichlo...	0.935	0.962	0.953	0.978	0.989	0.958	0.981	0.986	0.968	1.93
38)		Ethyl Acetate			0.228	0.241	0.151	0.200	0.208	0.270	0.302	0.229	21.59
39)	C	chloroform	1.712	1.588	1.544	1.717	1.709	1.673	1.698	1.760	1.675	4.33
40)		Tetrahydrofuran			0.499	0.619	0.371	0.397	0.531	0.556	0.732	0.529	23.58
41)		2,2-dichloropr...	1.191	1.226	1.155	1.288	1.333	1.320	1.393	1.450	1.294	7.76
42)	C	1,2-dichloroet...	1.202	1.054	1.045	1.084	1.077	1.023	1.038	1.035	1.070	5.37
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.287	0.271	0.276	0.205	0.211	0.272	0.282	0.299	0.263	13.39
45)		diisopropyl ether	0.217	0.221	0.212	0.219	0.229	0.231	0.244	0.267	0.230	7.85
46)		tert-butyl eth...	0.616	0.671	0.552	0.610	0.609	0.575	0.610	0.584	0.604	5.85
47)	s	1,2-dichloroet...	0.329	0.329	0.325	0.319	0.309	0.298	0.297	0.342	0.319	5.01
48)	C	1,1,1-trichlor...	0.506	0.465	0.472	0.505	0.495	0.481	0.550	0.563	0.504	7.06
49)		1,1-dichloropr...	0.324	0.325	0.323	0.382	0.388	0.387	0.385	0.394	0.363	9.05
50)	C	benzene	0.666	0.666	0.661	0.709	0.672	0.648	0.653	0.643	0.665	3.08
51)		thiophene	0.583	0.536	0.523	1.349	1.377	0.551	0.553	0.569	0.755	49.78#
52)	C	carbon tetrach...	0.476	0.514	0.494	0.526	0.525	0.508	0.526	0.542	0.514	4.07
53)		cyclohexane	0.265	0.300	0.281	0.217	0.216	0.276	0.278	0.281	0.264	11.74
54)		tert-amyl meth...	0.599	0.583	0.546	0.577	0.589	0.594	0.603	0.613	0.588	3.48
55)		dibromomethane	0.275	0.297	0.302	0.295	0.294	0.293	0.293	0.300	0.294	2.85
56)	C	1,2-dichloropr...	0.243	0.247	0.230	0.246	0.242	0.235	0.232	0.234	0.239	2.81
57)		bromodichlorom...	0.460	0.461	0.485	0.373	0.367	0.464	0.474	0.480	0.446	10.65
58)	C	1,4-dioxane	0.131	0.138	0.143	0.104	0.103	0.146	0.151	0.165	0.135	16.10
59)	C	trichloroethene	0.308	0.339	0.313	0.339	0.351	0.338	0.347	0.373	0.339	6.17
60)	C	2,2,4-trimethy...	0.869	0.857	0.864	0.692	0.693	0.885	0.881	0.853	0.824	9.95
61)		methyl methacr...			0.236	0.220	0.230	0.235	0.232	0.238	0.245	0.234	3.35
62)		heptane	0.262	0.281	0.246	0.223	0.215	0.277	0.280	0.280	0.258	10.48

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Method File : TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025
Response Via : Initial Calibration

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50 =R262189.D 100 =R262190.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichlo...	0.378	0.325	0.350	0.365	0.371	0.365	0.376	0.381	0.364	5.06
64)	C	4-methyl-2-pen...		0.380	0.355	0.297	0.302	0.384	0.399	0.399	0.359	12.18
65)		trans-1,3-dich...	0.243	0.272	0.275	0.293	0.303	0.302	0.318	0.323	0.291	9.15
66)	C	1,1,2-trichlor...	0.271	0.275	0.292	0.306	0.308	0.297	0.295	0.308	0.294	4.86
67)	I	chlorobenzene-D5	----------	ISTD	----------							
68)	C	toluene	5.555	5.108	5.035	5.424	5.578	5.408	5.326	4.995	5.303	4.33
69)	s	toluene-D8	5.447	5.346	5.447	5.497	5.642	5.448	5.493	5.405	5.466	1.58
70)		2-methylthiophene	0.493	0.465	0.466	1.385	1.430	0.523	0.526	0.500	0.724	58.42#
71)		1,3-dichloropr...	2.611	2.396	2.555	2.598	2.669	2.600	2.618	2.614	2.583	3.16
72)		2-hexanone	2.090	2.055	2.139	1.858	1.953	2.452	2.486	2.465	2.187	11.32
73)		3-methylthiophene	0.502	0.481	0.491	1.503	1.547	0.555	0.560	0.520	0.770	60.66#
74)		dibromochlorom...	2.889	2.828	2.957	2.382	2.523	3.318	3.502	3.443	2.980	13.89
75)	C	1,2-dibromoethane	2.794	2.662	2.711	3.022	3.090	3.105	3.138	3.006	2.941	6.44
76)		butyl acetate		0.465	0.541	0.630	0.668	0.678	0.697	0.707	0.627	14.46
77)		octane	1.414	1.489	1.528	1.646	1.704	1.708	1.759	1.898	1.643	9.65
78)	C	tetrachloroethene	2.246	2.700	2.564	2.833	3.039	2.982	3.136	3.271	2.846	11.74
79)		1,1,1,2-tetrac...	2.100	2.120	2.093	2.386	2.427	2.522	2.698	2.891	2.405	12.26
80)	C	chlorobenzene	3.739	4.306	4.212	4.538	4.674	4.563	4.737	4.769	4.442	7.78
81)	C	ethylbenzene	6.219	5.851	6.226	7.175	7.471	7.112	7.138	6.186	6.672	9.16
82)		2-ethylthiophene	0.559	0.550	0.555	1.758	1.825	0.657	0.662	0.553	0.890	62.78#
83)	C	m+p-xylene	4.775	4.942	5.210	5.781	5.950	5.891	6.022	4.288	5.357	12.08
84)	C	bromoform	2.257	2.379	2.488	2.306	2.537	3.564	4.141	4.371	3.005	29.21
85)	C	styrene	3.051	3.450	3.489	4.096	4.441	4.287	4.437	4.274	3.941	13.53
86)	C	1,1,2,2-tetrac...	3.889	3.796	3.911	4.387	4.479	4.303	4.443	4.501	4.214	7.04
87)	C	o-xylene	4.863	4.719	4.966	5.661	5.902	5.621	5.773	5.525	5.379	8.49
88)		1,2,3-trichlor...	2.860	2.952	2.786	3.081	3.136	3.061	3.109	3.082	3.008	4.25
89)		nonane	2.470	2.383	2.478	2.835	2.960	2.907	2.966	3.036	2.754	9.62
90)	s	bromofluoroben...	3.094	3.172	3.220	3.402	3.465	3.352	3.378	3.387	3.309	3.92
91)	C	isopropylbenzene	6.981	6.788	7.102	7.824	8.145	8.001	7.953	5.851	7.331	10.81
92)		bromobenzene	3.030	3.103	4.638	4.014	4.044	4.958	3.261	3.681	3.841	18.45
93)		2-chlorotoluene	2.031	1.837	1.833	2.046	2.150	2.103	2.163	2.271	2.054	7.51

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Method File : TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D 5.0 =R262186.D 10 =R262187.D 20 =R262188.D
50 =R262189.D 100 =R262190.D

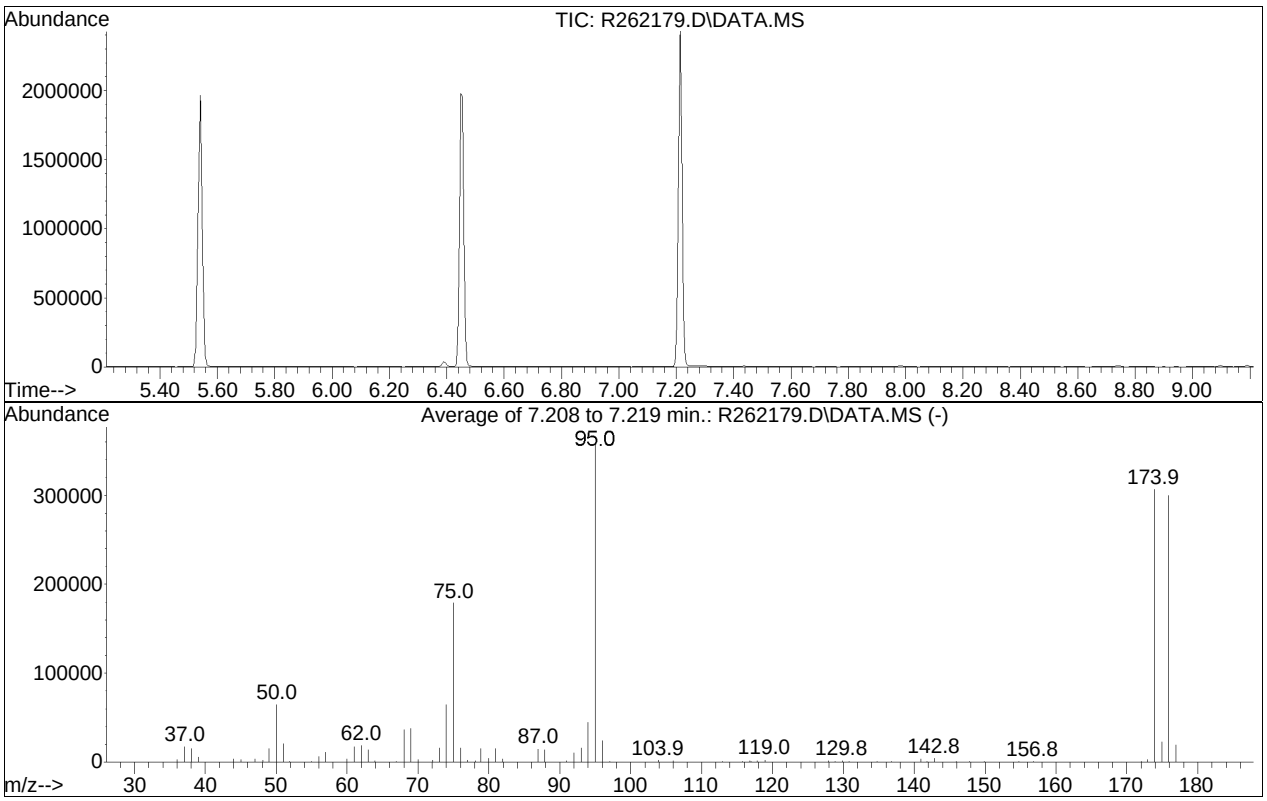
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.074	1.877	1.902	2.225	2.420	2.389	2.593	2.829	2.289	14.60
95)		4-chlorotoluene	1.846	1.727	1.882	2.201	2.320	2.256	2.446	2.606	2.161	14.43
96)		4-ethyl toluene	6.000	5.976	6.325	5.702	5.959	7.596	7.636	5.880	6.384	12.21
97)		1,3,5-trimethy...	5.066	5.321	5.499	6.469	6.999	6.528	6.629	5.683	6.024	11.86
98)		tert-butylbenzene	5.474	5.982	6.082	7.314	7.779	7.618	8.132	6.664	6.881	14.08
99)		1,2,4-trimethy...	5.425	5.088	5.713	6.913	7.302	7.131	7.538	5.956	6.383	14.80
100)		decane	2.560	2.983	3.326	3.773	3.962	3.921	4.232	4.474	3.654	17.74
101)	C	Benzyl Chloride	2.725	2.782	2.968	2.977	3.521	5.044	5.946	5.399	3.920	33.72#
102)		1,3-dichlorobe...	4.259	4.043	4.341	5.059	5.402	5.129	5.564	5.016	4.852	11.62
103)	C	1,4-dichlorobe...	4.406	4.280	4.327	5.097	5.361	5.293	5.837	5.032	4.954	11.41
104)		sec-butylbenzene	0.806	0.872	0.904	1.011	1.040	1.008	1.000	0.619	0.907	15.68
105)		1,2,3-trimethy...	5.332	5.839	6.116	7.235	7.525	7.395	7.588	6.335	6.670	13.07
106)		p-isopropyltol...	6.818	7.384	7.932	9.577	9.854	9.760	9.686	6.905	8.490	16.01
107)		1,2-dichlorobe...	3.760	3.991	4.144	5.026	5.274	5.045	5.267	4.868	4.672	13.03
108)		n-butylbenzene	6.056	6.686	6.986	8.159	8.740	8.501	8.337	5.925	7.424	15.38
109)		indan	5.522	5.138	5.330	6.283	6.421	6.524	6.698	5.619	5.942	10.17
110)		indene	3.672	3.788	4.188	4.901	5.309	5.300	5.440	5.264	4.733	15.53
111)	C	1,2-dibromo-3-...	1.643	1.704	1.790	2.124	2.314	2.250	2.474	2.815	2.139	19.11
112)		undecane	3.521	3.472	3.507	4.552	4.916	4.766	5.090	4.738	4.320	16.11
113)		1,2,4,5-tetram...	1.962	2.377	2.348	4.121	4.308	3.141	3.363	3.555	3.147	27.24
114)		dodecane	2.609	3.165	3.757	5.669	6.353	5.606	6.310	4.972	4.805	30.14#
115)	C	1,2,4-trichlor...	3.066	3.092	3.578	4.392	5.031	4.880	5.709	5.415	4.395	23.61
116)		naphthalene	0.648	0.720	0.976	1.045	1.180	1.107	1.044	0.646	0.921	23.44
117)		1,2,3-trichlor...	2.715	2.631	3.431	5.381	5.647	4.986	5.787	5.322	4.488	29.75
118)		benzothiophene	2.392	2.622	3.613	5.230	6.001	4.508	5.176	4.828	4.296	30.19#
119)	C	hexachlorobuta...	2.345	2.800	3.022	3.999	4.338	4.313	5.360	4.834	3.876	27.18
120)		2-methylnaphth...			0.319	0.970	1.254	0.666	0.857	0.821	0.815	38.32#
121)		1-methylnaphth...			0.515	1.470	1.750	0.957	1.169	0.793	1.109	40.72#

(#) = Out of Range

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262179.D
Acq On : 14 Mar 2025 07:59 pm
Operator : AIRLAB26:APR
Sample : WG2041764-1
Misc : WG2041764
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025



AutoFind: Scans 806, 807, 808; Background Corrected with Scan 800

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	64773	PASS
75	95	30	66	49.9	179328	PASS
95	95	100	100	100.0	359339	PASS
96	95	5	9	6.8	24291	PASS
173	174	0.00	2	1.0	3067	PASS
174	95	50	120	85.4	306965	PASS
175	174	4	9	7.5	22931	PASS
176	174	93	101	97.8	300181	PASS
177	176	5	9	6.4	19277	PASS

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.501	49	249997	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 97.20%			
43) 1,4-difluorobenzene	4.365	114	828775	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 91.34%			
67) chlorobenzene-D5	6.449	54	133074	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 92.66%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	272814	10.642	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.42%			
69) toluene-D8	5.541	98	724905	9.655	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.55%			
90) bromofluorobenzene	7.214	95	411797	8.932	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.32%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.986	51	1771M6	0.163	ppbV	
3) propylene	2.002	41	1095	0.249	ppbV #	74
4) propane	2.013	29	1392	0.340	ppbV #	83
5) dichlorodifluoromethane	2.024	85	9012	0.197	ppbV	98
6) chloromethane	2.074	50	3377	0.212	ppbV	93
7) Freon-114	2.107	85	11374	0.185	ppbV #	81
8) methanol	2.123	31	6214M6	1.497	ppbV	
9) vinyl chloride	2.145	62	4118	0.204	ppbV #	88
10) 1,3-butadiene	2.189	54	2537	0.259	ppbV #	80
11) butane	2.206	43	5526	0.237	ppbV #	89
12) acetaldehyde	2.112	29	13735	1.485	ppbV #	55
13) bromomethane	2.277	94	4722	0.225	ppbV	96
14) chloroethane	2.326	64	2982	0.262	ppbV #	87
15) ethanol	2.365	31	18042	1.736	ppbV	100
16) dichlorofluoromethane	2.354	67	12331	0.229	ppbV	94
17) vinyl bromide	2.432	106	4847	0.238	ppbV	95
18) acrolein	2.466	56	2649	0.258	ppbV #	52
19) acetone	2.505	43	37716	1.504	ppbV #	96
20) acetonitrile	2.426	41	4066M3	0.219	ppbV	
21) trichlorofluoromethane	2.551	101	15938	0.197	ppbV	97
22) isopropyl alcohol	2.568	45	21443	0.773	ppbV	99
23) acrylonitrile	2.624	53	5000	0.208	ppbV	100
24) pentane	2.653	43	9754	0.193	ppbV	95

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.653	31	5005	0.221	ppbV		92
26) 1,1-dichloroethene	2.727	61	12158	0.213	ppbV		97
27) tertiary butyl alcohol	2.741	59	14101	0.230	ppbV	#	83
28) methylene chloride	2.760	49	7599	0.227	ppbV		86
29) 3-chloropropene	2.793	41	6626	0.276	ppbV		98
30) carbon disulfide	2.841	76	15999	0.263	ppbV	#	1
31) Freon 113	2.841	101	13518	0.199	ppbV		94
32) trans-1,2-dichloroethene	3.058	61	9019	0.271	ppbV		91
33) 1,1-dichloroethane	3.128	63	12238	0.206	ppbV		99
34) MTBE	3.160	73	17429	0.280	ppbV	#	91
35) vinyl acetate	3.190	43	10981	0.263	ppbV		97
36) 2-butanone	3.288	43	5850	0.273	ppbV	#	89
37) cis-1,2-dichloroethene	3.441	61	4677	0.189	ppbV	#	88
38) Ethyl Acetate	3.568	61	1921	0.384	ppbV	#	1
39) chloroform	3.560	83	8559	0.200	ppbV		89
40) Tetrahydrofuran	3.702		0	N.D.			
41) 2,2-dichloropropane	3.575	77	5954	0.179	ppbV	#	87
42) 1,2-dichloroethane	3.868	62	6012	0.223	ppbV		93
44) hexane	3.546	57	4764	0.273	ppbV	#	66
45) diisopropyl ether	3.553	87	3602	0.190	ppbV		77
46) tert-butyl ethyl ether	3.779	59	10216	0.202	ppbV		96
48) 1,1,1-trichloroethane	3.982	97	8384	0.205	ppbV		96
49) 1,1-dichloropropene	4.120	75	5363	0.167	ppbV	#	80
50) benzene	4.177	78	11031	0.198	ppbV		97
51) thiophene	4.233	84	9658	0.085	ppbV		92
52) carbon tetrachloride	4.252	117	7898	0.181	ppbV		88
53) cyclohexane	4.309	56	4397	0.245	ppbV	#	92
54) tert-amyl methyl ether	4.488	73	9932	0.204	ppbV		94
55) dibromomethane	4.544	93	4554	0.187	ppbV	#	77
56) 1,2-dichloropropane	4.563	63	4029M3	0.201	ppbV		
57) bromodichloromethane	4.658	83	7633	0.251	ppbV		94
58) 1,4-dioxane	4.714	88	2166M3	0.253	ppbV		
59) trichloroethene	4.686	130	5100	0.176	ppbV		90
60) 2,2,4-trimethylpentane	4.724	57	14411	0.251	ppbV	#	96
61) methyl methacrylate	4.818	41	3983	0.205	ppbV		90
62) heptane	4.865	43	4347	0.244	ppbV		99
63) cis-1,3-dichloropropene	5.110	75	6265	0.204	ppbV		90
64) 4-methyl-2-pentanone	5.158	43	6243	0.250	ppbV	#	83
65) trans-1,3-dichloropropene	5.381	75	4032	0.160	ppbV	#	88
66) 1,1,2-trichloroethane	5.453	97	4497	0.176	ppbV		98

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	14785	0.199	ppbV		97
70) 2-methylthiophene	5.613	97	13132	0.069	ppbV		100
71) 1,3-dichloropropane	5.605	76	6949	0.196	ppbV		91
72) 2-hexanone	5.764	43	5563	0.214	ppbV		92
73) 3-methylthiophene	5.701	97	13363	0.065	ppbV		95
74) dibromochloromethane	5.780	129	7689	0.229	ppbV		98
75) 1,2-dibromoethane	5.900	107	7435	0.181	ppbV		97
76) butyl acetate	6.100	73	1120	0.126	ppbV		92
77) octane	6.132	85	3763	0.166	ppbV	#	79
78) tetrachloroethene	6.148	166	5977	0.148	ppbV		91
79) 1,1,1,2-tetrachloroethane	6.471	131	5589	0.173	ppbV	#	82
80) chlorobenzene	6.471	112	9951	0.160	ppbV		93
81) ethylbenzene	6.678	91	16551	0.166	ppbV		98
82) 2-ethylthiophene	6.689	97	14868	0.061	ppbV		94
83) m+p-xylene	6.766	91	25418	0.321	ppbV		92
84) bromoform	6.766	173	6007	0.178	ppbV		91
85) styrene	6.940	104	8120	0.137	ppbV	#	85
86) 1,1,2,2-tetrachloroethane	6.987	83	10351	0.174	ppbV		100
87) o-xylene	6.992	91	12944	0.165	ppbV		98
88) 1,2,3-trichloropropane	7.051	75	7611	0.182	ppbV	#	89
89) nonane	7.155	43	6575	0.167	ppbV		99
91) isopropylbenzene	7.295	105	18580	0.171	ppbV	#	89
92) bromobenzene	7.307	77	8065M6	0.150	ppbV		
93) 2-chlorotoluene	7.523	126	5406	0.189	ppbV		78
94) n-propylbenzene	7.563	120	5520	0.171	ppbV	#	51
95) 4-chlorotoluene	7.563	126	4913	0.159	ppbV	#	61
96) 4-ethyl toluene	7.643	105	15970	0.201	ppbV		91
97) 1,3,5-trimethylbenzene	7.683	105	13482	0.145	ppbV	#	95
98) tert-butylbenzene	7.898	119	14570	0.141	ppbV		98
99) 1,2,4-trimethylbenzene	7.898	105	14439	0.149	ppbV	#	73
100) decane	8.002	57	6814	0.129	ppbV	#	98
101) Benzyl Chloride	7.962	91	7253	0.155	ppbV	#	90
102) 1,3-dichlorobenzene	7.962	146	11336	0.158	ppbV		96
103) 1,4-dichlorobenzene	8.002	146	11727	0.164	ppbV		93
104) sec-butylbenzene	8.050	105	21463	0.155	ppbV		95
105) 1,2,3-trimethylbenzene	8.130	105	14190	0.142	ppbV		100
106) p-isopropyltoluene	8.146	119	18145	0.138	ppbV		98
107) 1,2-dichlorobenzene	8.186	146	10007	0.143	ppbV		92
108) n-butylbenzene	8.385	91	16119	0.139	ppbV	#	84
109) indan	8.226	117	14696	0.172	ppbV		91

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

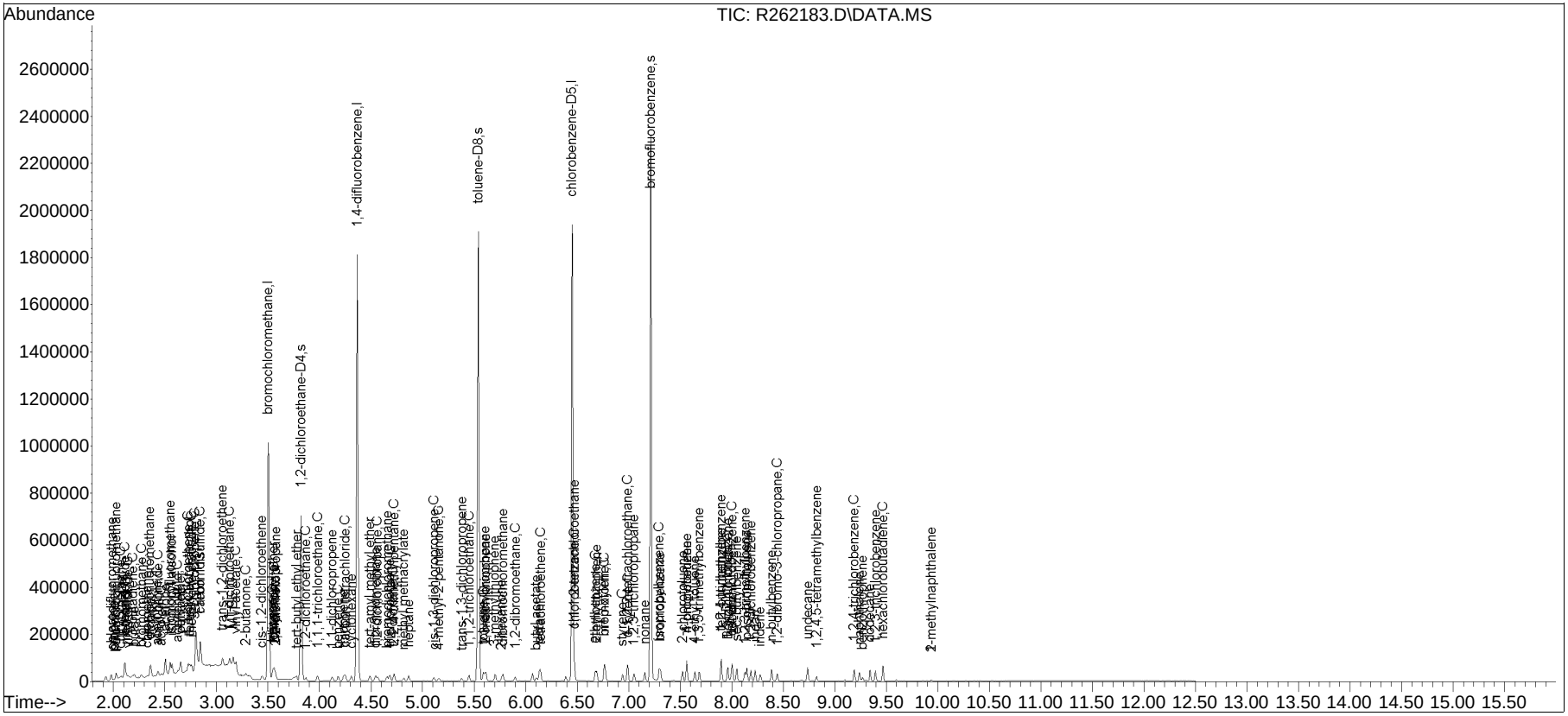
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.274	115	9774	0.138	ppbV		94
111) 1,2-dibromo-3-chloropr...	8.441	75	4372	0.142	ppbV		87
112) undecane	8.737	57	9372	0.143	ppbV	#	92
113) 1,2,4,5-tetramethylben...	8.824	119	5223	0.091	ppbV	#	90
114) dodecane	9.341	57	6943	0.082	ppbV		95
115) 1,2,4-trichlorobenzene	9.189	180	8160	0.122	ppbV	#	93
116) naphthalene	9.236	128	17243	0.110	ppbV	#	89
117) 1,2,3-trichlorobenzene	9.394	180	7225	0.096	ppbV		97
118) benzothiophene	9.271	134	6365	0.080	ppbV	#	83
119) hexachlorobutadiene	9.470	225	6242	0.108	ppbV		94
120) 2-methylnaphthalene	9.937	142	1329	0.080	ppbV		94
121) 1-methylnaphthalene	9.937	142	1329	0.057	ppbV		96

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

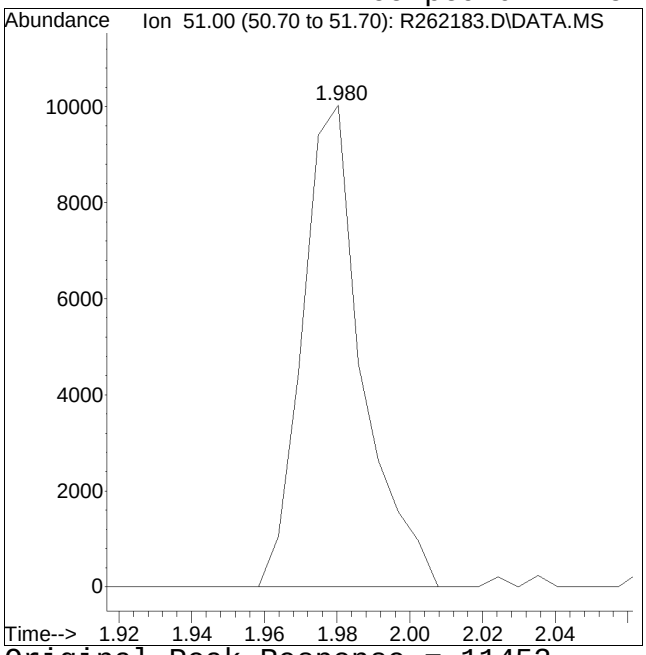
Quant Time: Mar 15 09:49:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration



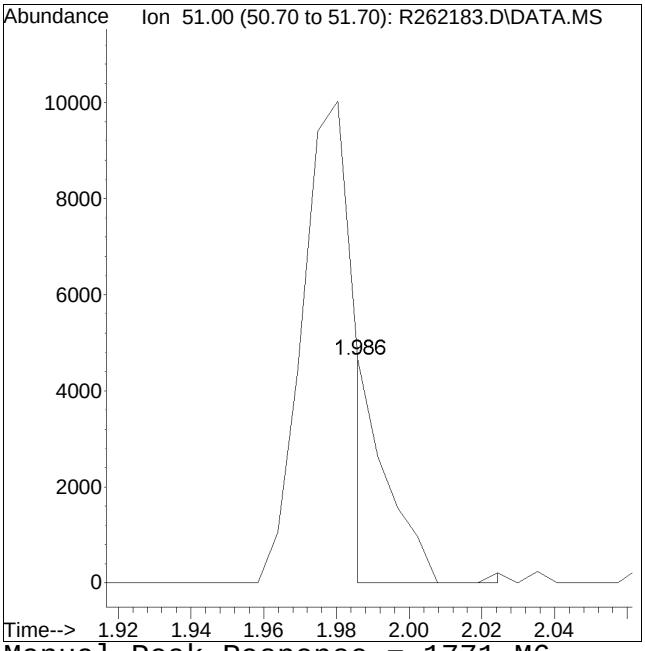
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 11452



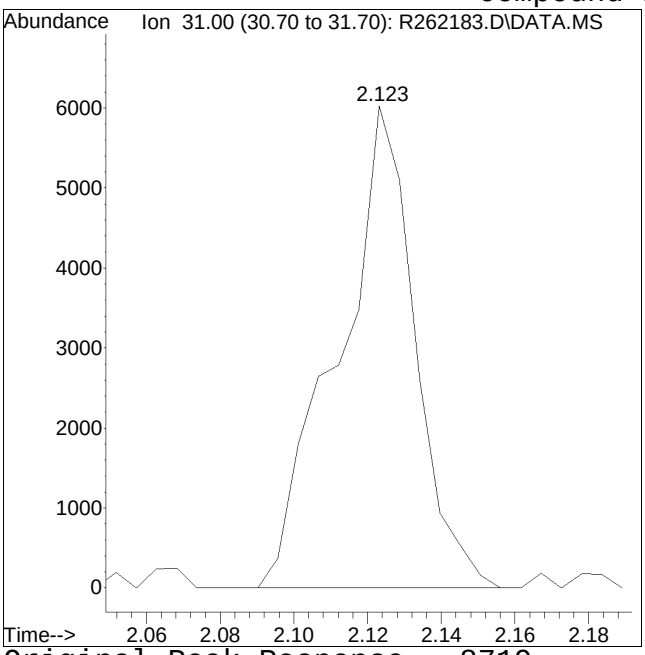
Manual Peak Response = 1771 M6

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

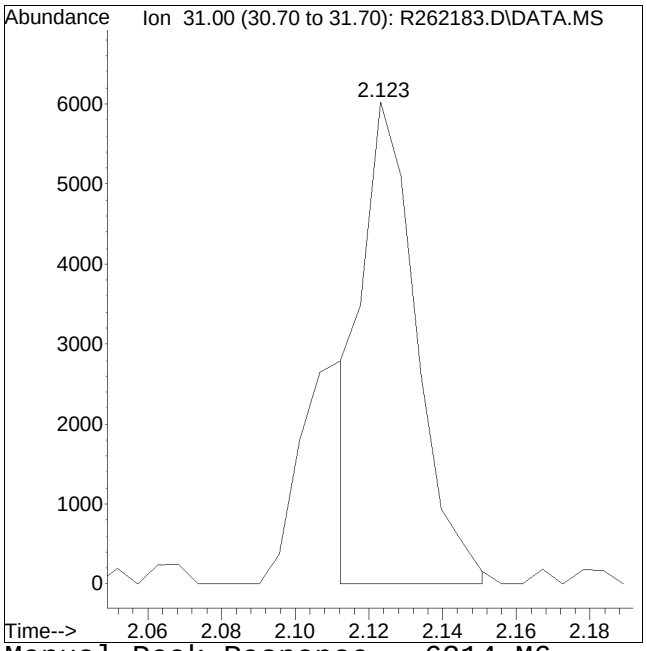
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 8719



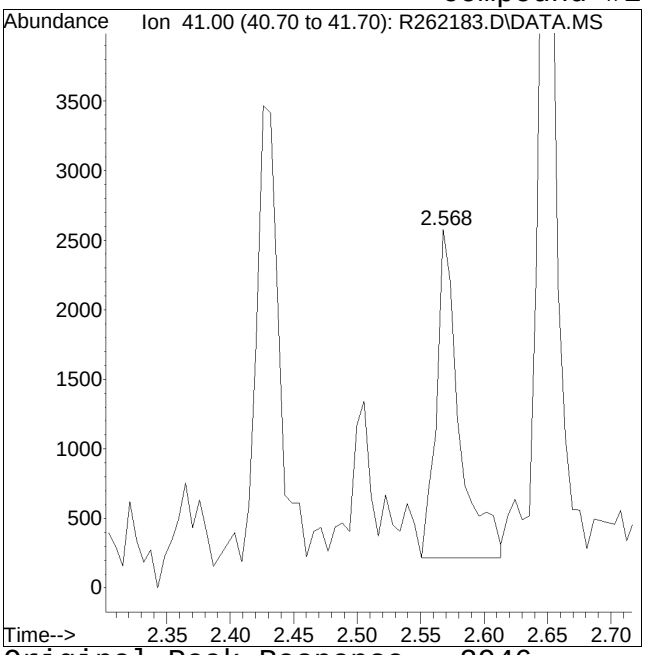
Manual Peak Response = 6214 M6

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

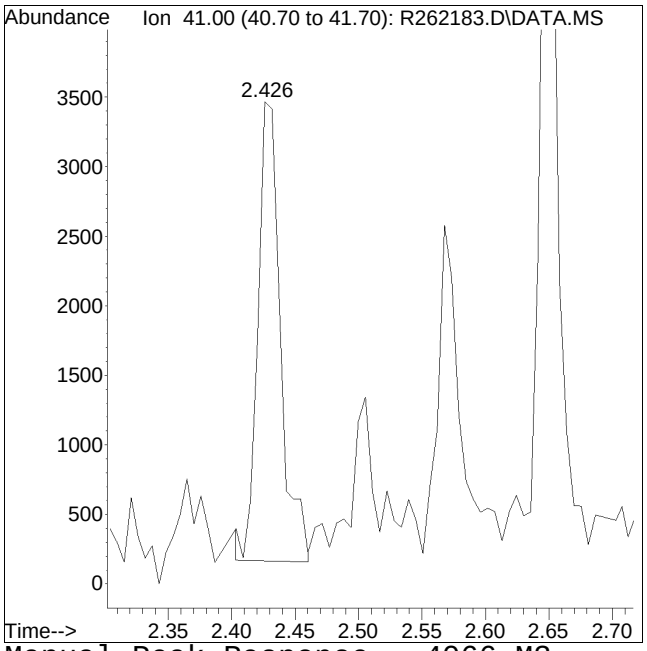
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #20: acetonitrile



Original Peak Response = 2946



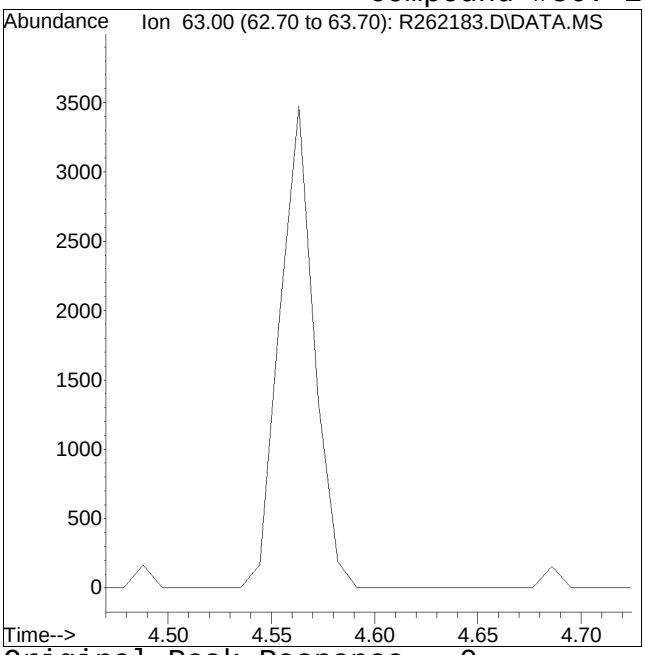
Manual Peak Response = 4066 M3

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.

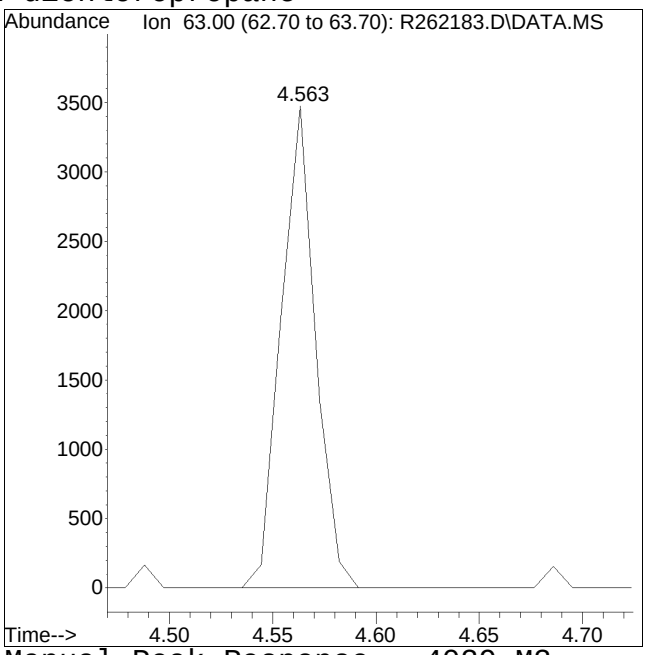
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #56: 1,2-dichloropropane



Original Peak Response = 0



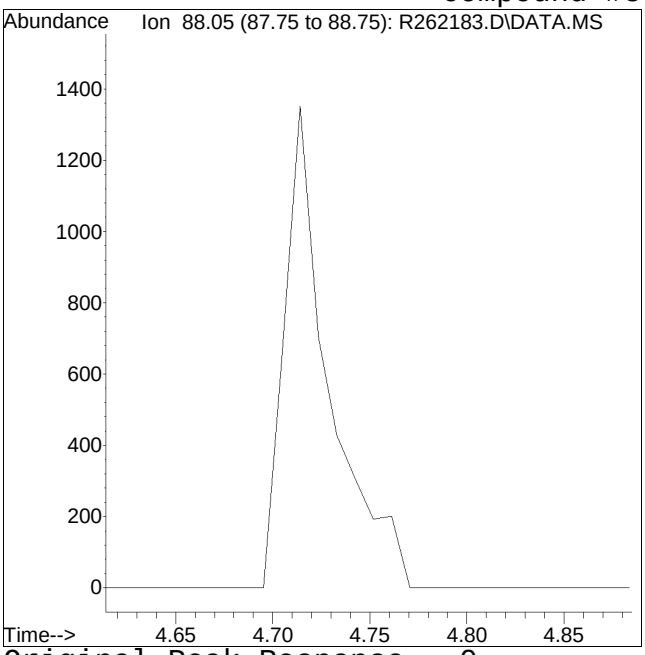
Manual Peak Response = 4029 M3

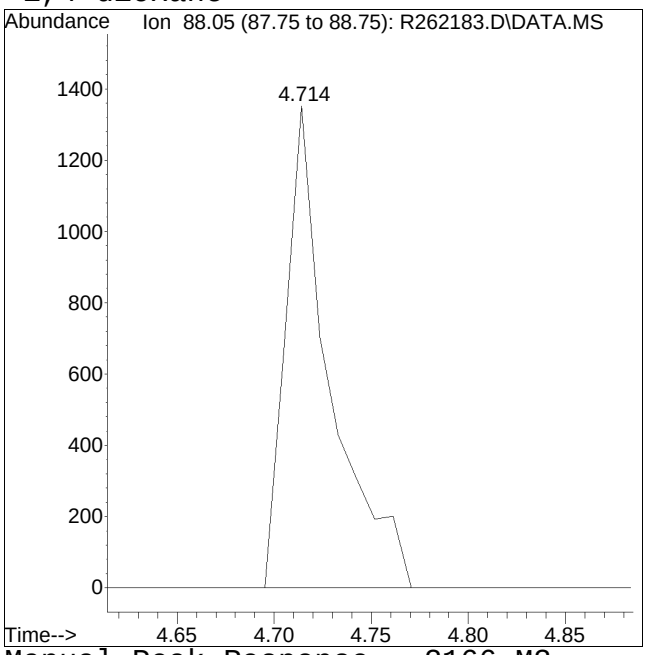
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #58: 1,4-dioxane



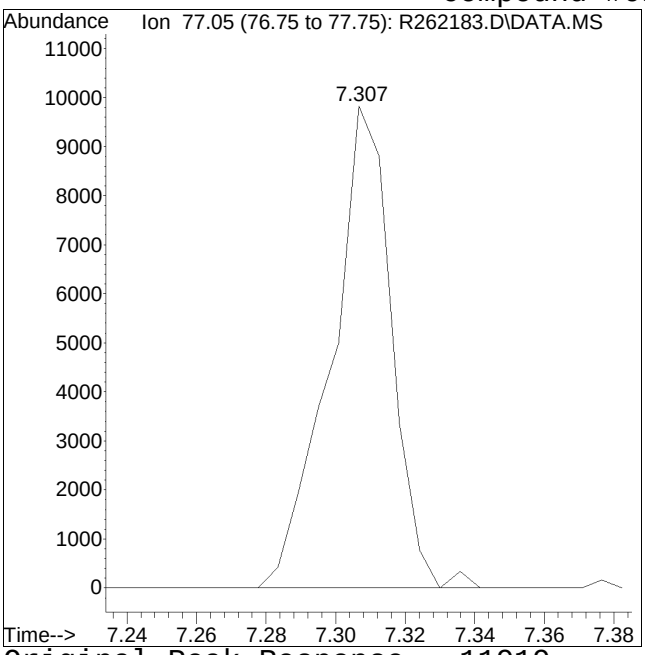


Original Peak Response = 0 Manual Peak Response = 2166 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

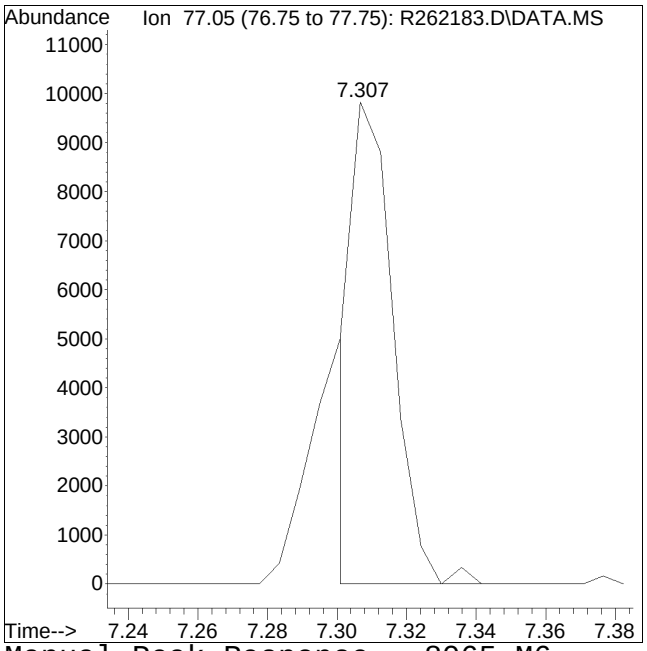
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/15/2025 9:49 am

Compound #92: bromobenzene



Original Peak Response = 11919



Manual Peak Response = 8065 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	249443	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 96.99%			
43) 1,4-difluorobenzene	4.365	114	824999	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 90.92%			
67) chlorobenzene-D5	6.449	54	135746	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 94.52%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	271471	10.638	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.38%			
69) toluene-D8	5.541	98	725649	9.474	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.74%			
90) bromofluorobenzene	7.214	95	430587	9.155	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 91.55%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	2029M6	0.187	ppbV	
3) propylene	2.008	41	2777M3	0.633	ppbV	
4) propane	2.013	29	2067	0.506	ppbV #	88
5) dichlorodifluoromethane	2.030	85	20952	0.459	ppbV	92
6) chloromethane	2.079	50	7880	0.497	ppbV	99
7) Freon-114	2.107	85	29515	0.482	ppbV	96
8) methanol	2.129	31	13053M6	3.152	ppbV	
9) vinyl chloride	2.145	62	10685	0.531	ppbV	89
10) 1,3-butadiene	2.189	54	6524	0.668	ppbV	98
11) butane	2.205	43	12208	0.524	ppbV #	89
12) acetaldehyde	2.118	29	27302	2.958	ppbV	91
13) bromomethane	2.277	94	10826	0.516	ppbV #	80
14) chloroethane	2.326	64	5948	0.524	ppbV	97
15) ethanol	2.365	31	34029	3.282	ppbV	95
16) dichlorofluoromethane	2.354	67	24576	0.457	ppbV	100
17) vinyl bromide	2.437	106	11649	0.574	ppbV	94
18) acrolein	2.466	56	5944	0.580	ppbV #	83
19) acetone	2.505	43	91316	3.650	ppbV	96
20) acetonitrile	2.432	41	8678M3	0.469	ppbV	
21) trichlorofluoromethane	2.551	101	40828	0.506	ppbV	98
22) isopropyl alcohol	2.568	45	49689	1.796	ppbV	99
23) acrylonitrile	2.630	53	11493	0.479	ppbV	98
24) pentane	2.653	43	25425	0.503	ppbV	96

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.658	31	12482	0.554	ppbV		96
26) 1,1-dichloroethene	2.727	61	29703	0.523	ppbV		96
27) tertiary butyl alcohol	2.741	59	33822	0.554	ppbV		97
28) methylene chloride	2.760	49	17468	0.522	ppbV		91
29) 3-chloropropene	2.793	41	15794	0.659	ppbV		94
30) carbon disulfide	2.846	76	39489	0.652	ppbV	#	19
31) Freon 113	2.846	101	34729	0.513	ppbV		98
32) trans-1,2-dichloroethene	3.062	61	20990	0.633	ppbV		96
33) 1,1-dichloroethane	3.133	63	30211	0.511	ppbV		95
34) MTBE	3.164	73	41005	0.660	ppbV		99
35) vinyl acetate	3.195	43	26048	0.625	ppbV		99
36) 2-butanone	3.283	43	14659	0.686	ppbV	#	89
37) cis-1,2-dichloroethene	3.441	61	11993	0.486	ppbV	#	85
38) Ethyl Acetate	3.560	61	2842M6	0.570	ppbV		
39) chloroform	3.560	83	19803	0.465	ppbV		99
40) Tetrahydrofuran	3.747	42	6226M6	0.628	ppbV		
41) 2,2-dichloropropane	3.575	77	15291	0.460	ppbV		99
42) 1,2-dichloroethane	3.868	62	13142	0.489	ppbV	#	93
44) hexane	3.546	57	11195	0.644	ppbV	#	62
45) diisopropyl ether	3.553	87	9097	0.482	ppbV		90
46) tert-butyl ethyl ether	3.778	59	27699	0.551	ppbV		95
48) 1,1,1-trichloroethane	3.982	97	19176	0.470	ppbV		98
49) 1,1-dichloropropene	4.120	75	13414	0.419	ppbV	#	86
50) benzene	4.186	78	27491	0.496	ppbV		94
51) thiophene	4.233	84	22092	0.194	ppbV		97
52) carbon tetrachloride	4.252	117	21205	0.489	ppbV		95
53) cyclohexane	4.309	56	12371	0.694	ppbV		90
54) tert-amyl methyl ether	4.488	73	24048	0.495	ppbV		96
55) dibromomethane	4.544	93	12244	0.505	ppbV		92
56) 1,2-dichloropropane	4.563	63	10193	0.510	ppbV		97
57) bromodichloromethane	4.657	83	19034	0.628	ppbV	#	91
58) 1,4-dioxane	4.705	88	5680	0.666	ppbV		98
59) trichloroethene	4.686	130	13974	0.483	ppbV		97
60) 2,2,4-trimethylpentane	4.723	57	35348	0.618	ppbV		95
61) methyl methacrylate	4.818	41	9724	0.502	ppbV	#	95
62) heptane	4.865	43	11581	0.654	ppbV	#	89
63) cis-1,3-dichloropropene	5.110	75	13418	0.438	ppbV		94
64) 4-methyl-2-pentanone	5.158	43	15673	0.630	ppbV		97
65) trans-1,3-dichloropropene	5.381	75	11205	0.448	ppbV		93
66) 1,1,2-trichloroethane	5.453	97	11354	0.446	ppbV		93

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	34667	0.458	ppbV		99
70) 2-methylthiophene	5.613	97	31562	0.163	ppbV	#	96
71) 1,3-dichloropropane	5.605	76	16264	0.449	ppbV		93
72) 2-hexanone	5.756	43	13950	0.526	ppbV		94
73) 3-methylthiophene	5.701	97	32641	0.155	ppbV		92
74) dibromochloromethane	5.780	129	19193	0.560	ppbV		95
75) 1,2-dibromoethane	5.900	107	18069	0.431	ppbV		94
76) butyl acetate	6.100	73	3158	0.348	ppbV		79
77) octane	6.132	85	10108	0.437	ppbV		91
78) tetrachloroethene	6.148	166	18326	0.444	ppbV		93
79) 1,1,1,2-tetrachloroethane	6.471	131	14386	0.437	ppbV		96
80) chlorobenzene	6.471	112	29224	0.461	ppbV		92
81) ethylbenzene	6.673	91	39713	0.392	ppbV		97
82) 2-ethylthiophene	6.689	97	37336	0.151	ppbV		99
83) m+p-xylene	6.766	91	67084	0.831	ppbV		92
84) bromoform	6.766	173	16150	0.469	ppbV		94
85) styrene	6.940	104	23415	0.388	ppbV		95
86) 1,1,2,2-tetrachloroethane	6.987	83	25762	0.424	ppbV		96
87) o-xylene	6.992	91	32031	0.400	ppbV		92
88) 1,2,3-trichloropropane	7.051	75	20035	0.471	ppbV		97
89) nonane	7.155	43	16172	0.402	ppbV	#	91
91) isopropylbenzene	7.295	105	46075	0.417	ppbV		97
92) bromobenzene	7.307	77	21064M6	0.384	ppbV		
93) 2-chlorotoluene	7.523	126	12471	0.427	ppbV		92
94) n-propylbenzene	7.563	120	12738	0.388	ppbV		72
95) 4-chlorotoluene	7.563	126	11722	0.372	ppbV		76
96) 4-ethyl toluene	7.643	105	40560	0.501	ppbV	#	96
97) 1,3,5-trimethylbenzene	7.683	105	36112	0.380	ppbV		99
98) tert-butylbenzene	7.898	119	40600	0.384	ppbV		97
99) 1,2,4-trimethylbenzene	7.898	105	34535	0.348	ppbV	#	87
100) decane	8.002	57	20249	0.377	ppbV	#	93
101) Benzyl Chloride	7.954	91	18880	0.395	ppbV		93
102) 1,3-dichlorobenzene	7.962	146	27440	0.374	ppbV		94
103) 1,4-dichlorobenzene	8.002	146	29047M3	0.399	ppbV		
104) sec-butylbenzene	8.050	105	59176	0.419	ppbV		98
105) 1,2,3-trimethylbenzene	8.122	105	39631	0.388	ppbV		99
106) p-isopropyltoluene	8.146	119	50118	0.375	ppbV		98
107) 1,2-dichlorobenzene	8.186	146	27085	0.378	ppbV		96
108) n-butylbenzene	8.385	91	45381	0.382	ppbV	#	87
109) indan	8.226	117	34875	0.400	ppbV		91

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

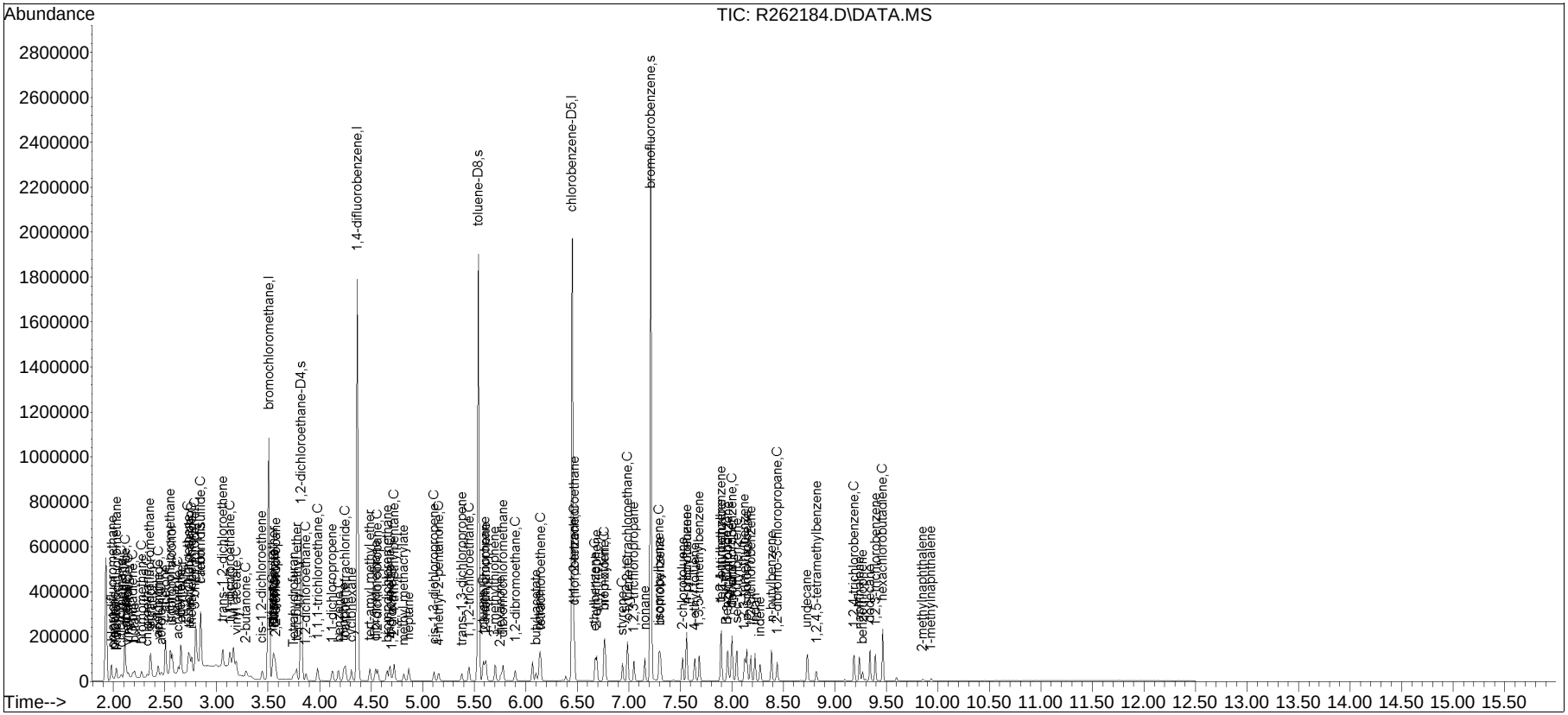
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	25711	0.357	ppbV #	95
111) 1,2-dibromo-3-chloropr...	8.441	75	11564	0.368	ppbV #	87
112) undecane	8.729	57	23568	0.353	ppbV #	88
113) 1,2,4,5-tetramethylben...	8.824	119	16134	0.276	ppbV #	91
114) dodecane	9.341	57	21485	0.249	ppbV	96
115) 1,2,4-trichlorobenzene	9.189	180	20987	0.307	ppbV	93
116) naphthalene	9.236	128	48849	0.305	ppbV #	92
117) 1,2,3-trichlorobenzene	9.394	180	17860	0.233	ppbV #	89
118) benzothiophene	9.271	134	17797	0.218	ppbV	97
119) hexachlorobutadiene	9.464	225	19005	0.323	ppbV #	76
120) 2-methylnaphthalene	9.850	142	2130	0.125	ppbV #	90
121) 1-methylnaphthalene	9.932	142	3148	0.133	ppbV #	94

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

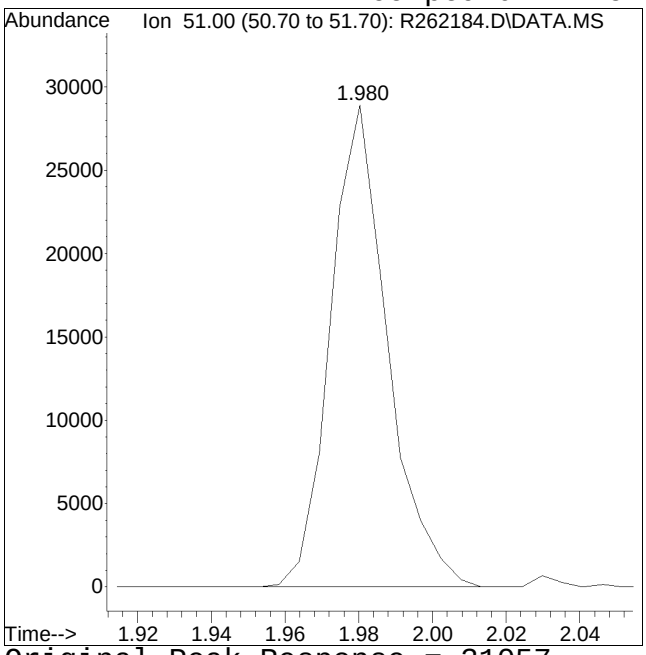
Quant Time: Mar 15 09:49:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration



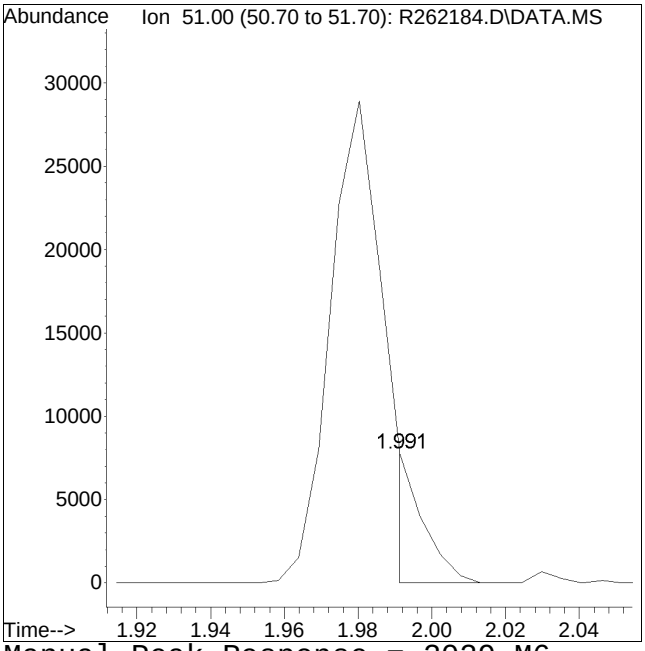
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 31057



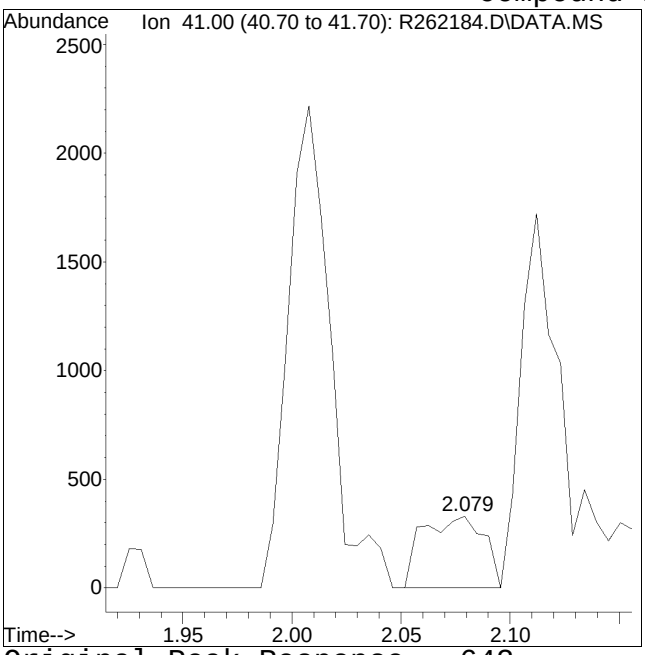
Manual Peak Response = 2029 M6

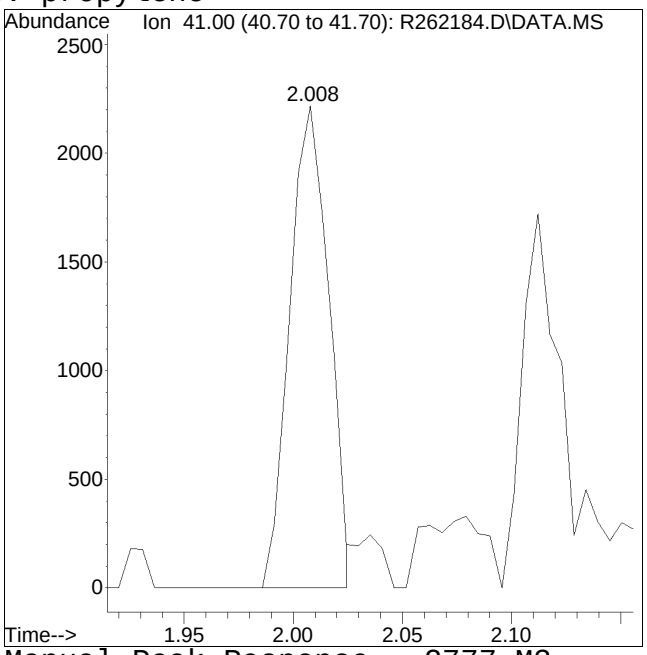
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #3: propylene



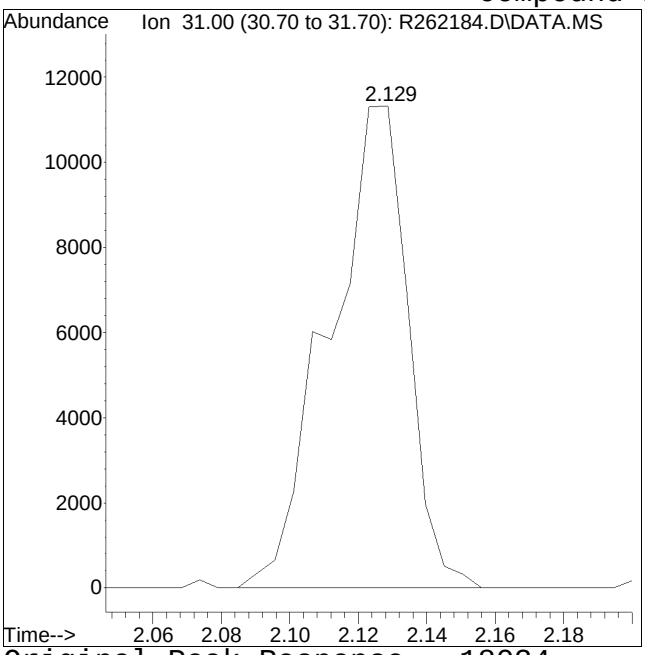


Original Peak Response = 642 Manual Peak Response = 2777 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

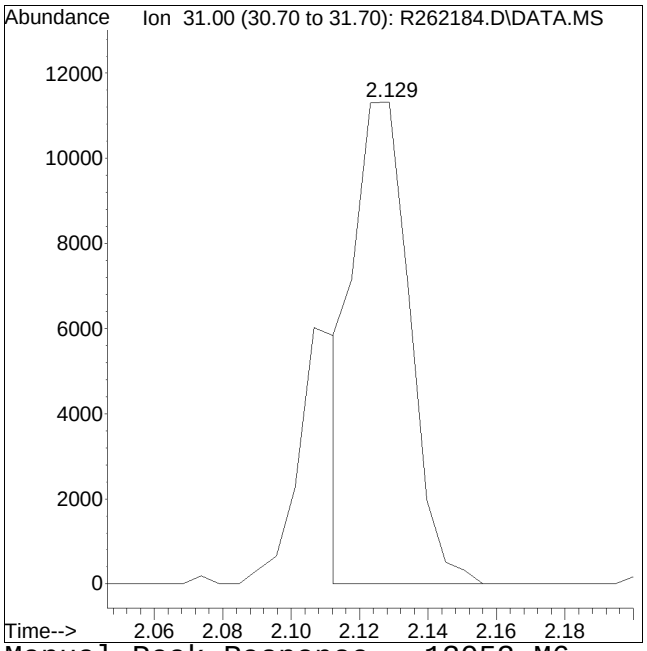
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 18034



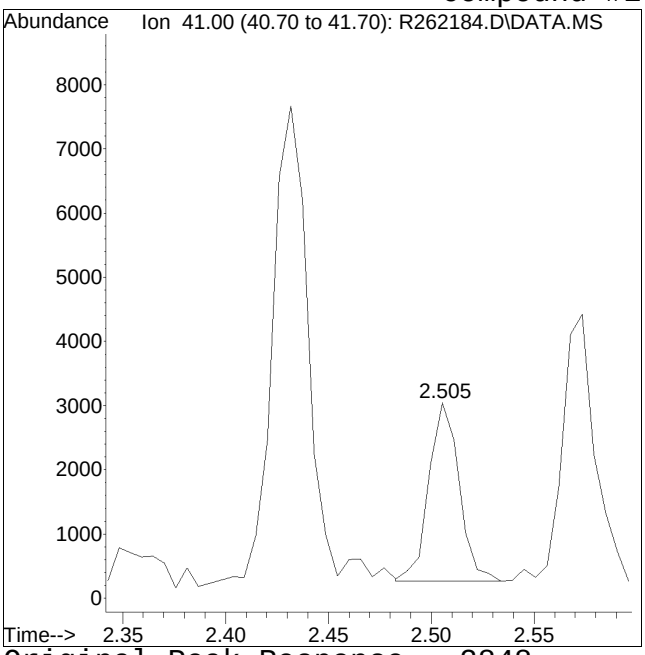
Manual Peak Response = 13053 M6

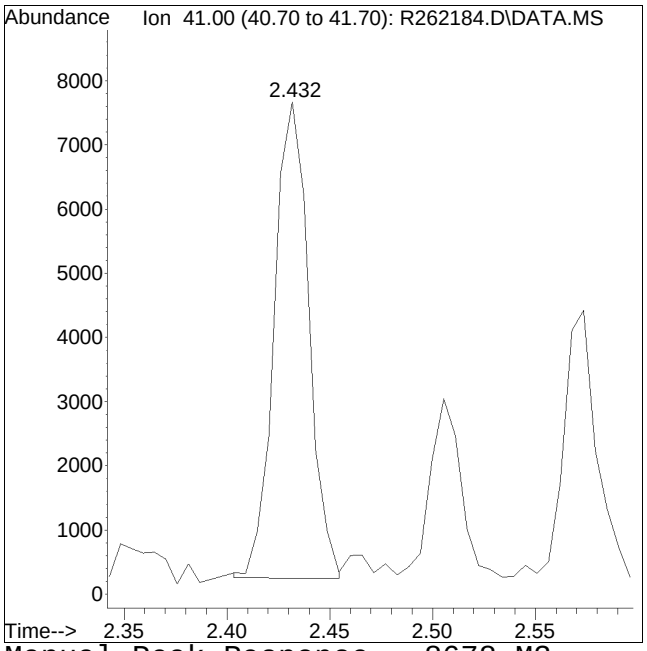
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #20: acetonitrile





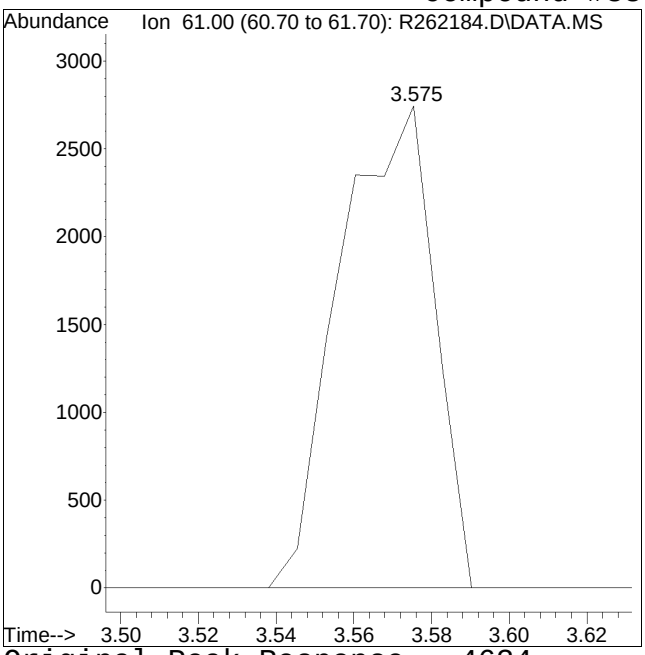
Original Peak Response = 2848 Manual Peak Response = 8678 M3

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.

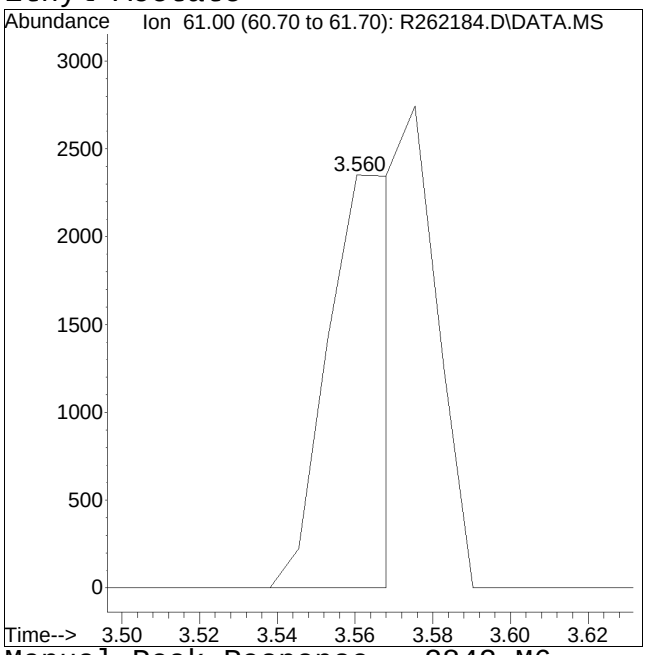
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 4634



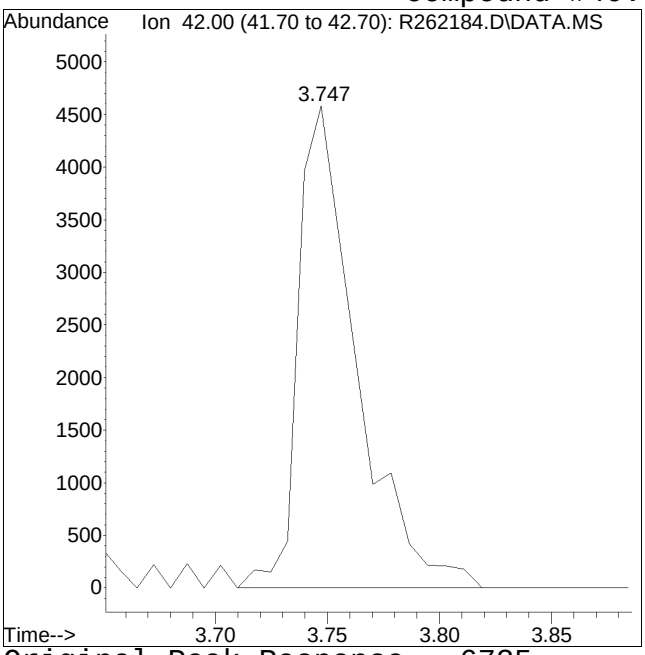
Manual Peak Response = 2842 M6

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

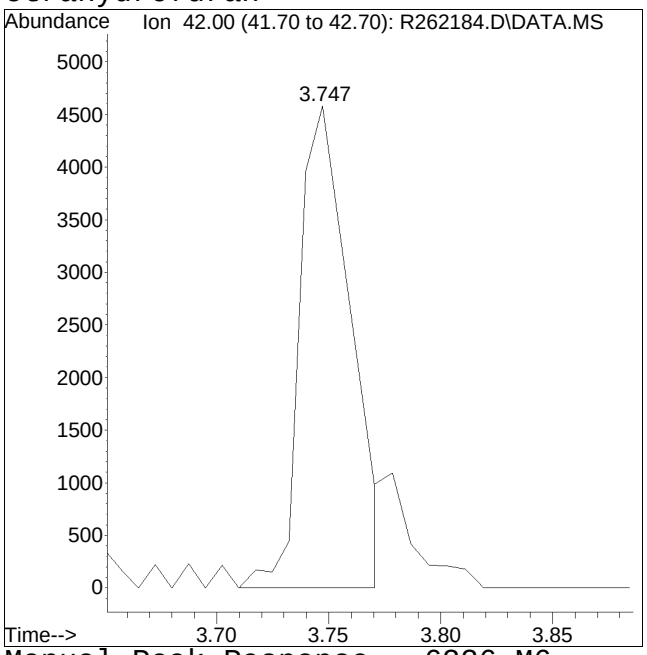
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #40: Tetrahydrofuran



Original Peak Response = 6735



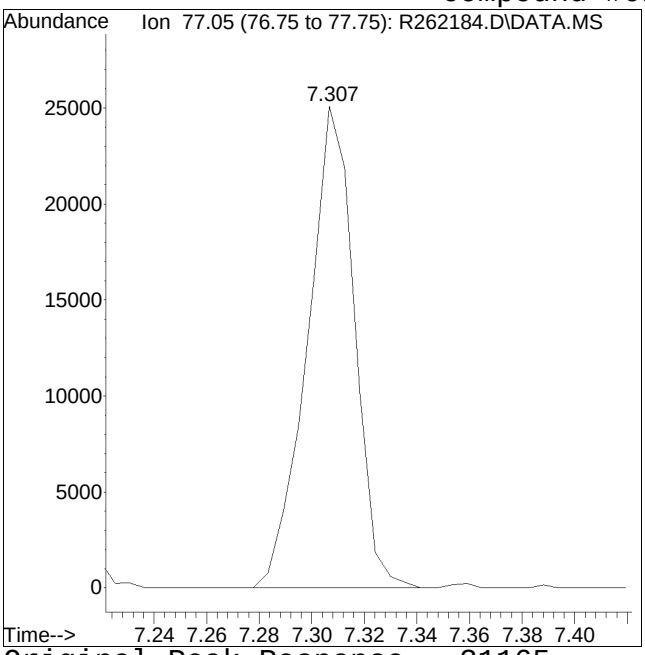
Manual Peak Response = 6226 M6

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

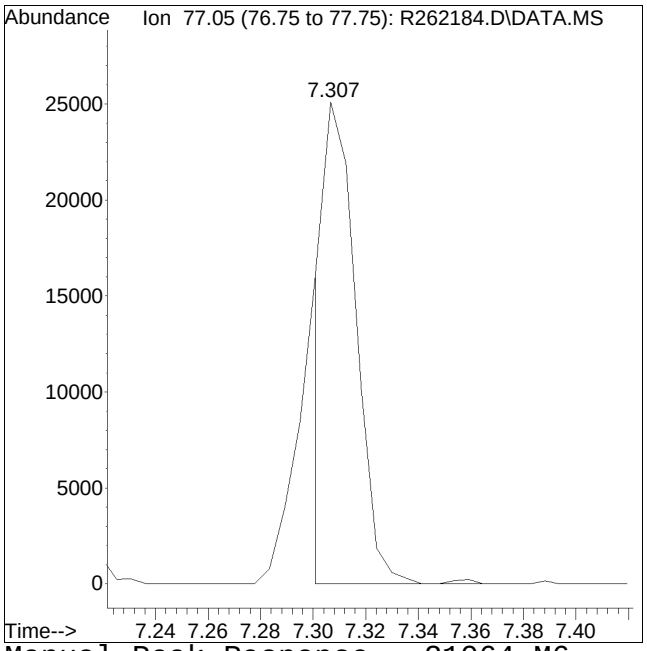
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #92: bromobenzene



Original Peak Response = 31165



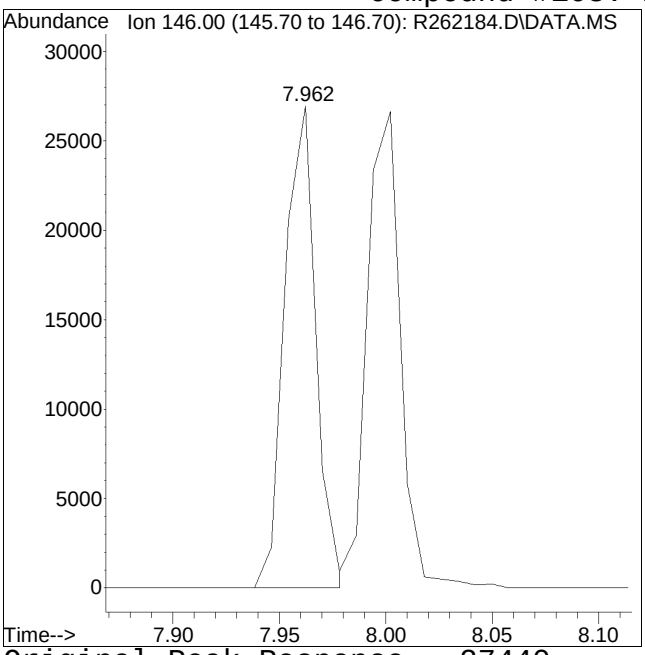
Manual Peak Response = 21064 M6

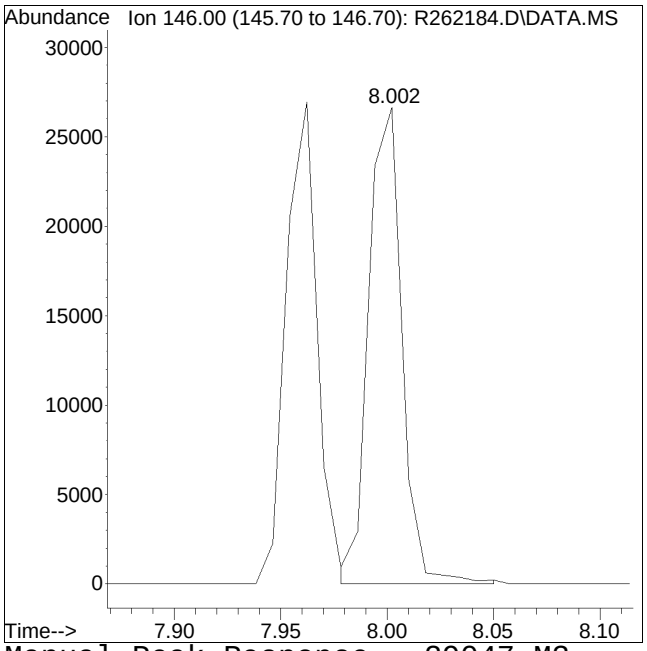
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/15/2025 9:49 am

Compound #103: 1,4-dichlorobenzene





Original Peak Response = 27440 Manual Peak Response = 29047 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 : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.501	49	254462	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 98.94%			
43) 1,4-difluorobenzene	4.365	114	838597	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 92.42%			
67) chlorobenzene-D5	6.449	54	136445	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 95.01%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	272864	10.519	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.19%			
69) toluene-D8	5.541	98	743154	9.653	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.53%			
90) bromofluorobenzene	7.214	95	439394	9.295	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.95%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.980	51	7459M6	0.675	ppbV	
3) propylene	1.997	41	5716	1.277	ppbV	92
4) propane	2.008	29	3522	0.845	ppbV #	80
5) dichlorodifluoromethane	2.019	85	43878	0.943	ppbV	99
6) chloromethane	2.068	50	15202	0.939	ppbV	99
7) Freon-114	2.101	85	58827	0.942	ppbV	98
8) methanol	2.118	31	19905M6	4.711	ppbV	
9) vinyl chloride	2.140	62	19972	0.974	ppbV	97
10) 1,3-butadiene	2.184	54	13100	1.314	ppbV	87
11) butane	2.200	43	24943	1.050	ppbV	97
12) acetaldehyde	2.107	29	53439	5.675	ppbV	91
13) bromomethane	2.266	94	21134	0.988	ppbV	91
14) chloroethane	2.321	64	11661	1.008	ppbV	92
15) ethanol	2.354	31	63437	5.998	ppbV	96
16) dichlorofluoromethane	2.348	67	49081	0.894	ppbV	96
17) vinyl bromide	2.432	106	27747	1.341	ppbV	98
18) acrolein	2.460	56	10929	1.045	ppbV	90
19) acetone	2.500	43	174509	6.838	ppbV	99
20) acetonitrile	2.426	41	21008	1.113	ppbV	97
21) trichlorofluoromethane	2.551	101	79878	0.971	ppbV	99
22) isopropyl alcohol	2.568	45	101364	3.591	ppbV	99
23) acrylonitrile	2.624	53	23163	0.947	ppbV	96
24) pentane	2.647	43	55583	1.079	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.653	31	23387	1.017	ppbV		93
26) 1,1-dichloroethene	2.722	61	56807	0.980	ppbV		100
27) tertiary butyl alcohol	2.736	59	64018	1.028	ppbV		98
28) methylene chloride	2.755	49	35995	1.054	ppbV		92
29) 3-chloropropene	2.794	41	33339	1.364	ppbV		93
30) carbon disulfide	2.841	76	79194	1.281	ppbV	#	62
31) Freon 113	2.841	101	68283	0.988	ppbV		95
32) trans-1,2-dichloroethene	3.058	61	43262	1.279	ppbV		91
33) 1,1-dichloroethane	3.129	63	59412	0.984	ppbV		96
34) MTBE	3.160	73	82465	1.301	ppbV		99
35) vinyl acetate	3.191	43	61624	1.450	ppbV		98
36) 2-butanone	3.284	43	27974	1.283	ppbV	#	90
37) cis-1,2-dichloroethene	3.441	61	24262	0.964	ppbV		95
38) Ethyl Acetate	3.568	61	6135M6	1.206	ppbV		
39) chloroform	3.561	83	39282	0.903	ppbV		99
40) Tetrahydrofuran	3.740	42	15756M6	1.558	ppbV		
41) 2,2-dichloropropane	3.575	77	29400	0.867	ppbV		92
42) 1,2-dichloroethane	3.868	62	26583	0.970	ppbV		94
44) hexane	3.546	57	23120	1.309	ppbV		93
45) diisopropyl ether	3.553	87	17779	0.927	ppbV		81
46) tert-butyl ethyl ether	3.770	59	46304	0.907	ppbV		98
48) 1,1,1-trichloroethane	3.982	97	39558	0.954	ppbV		96
49) 1,1-dichloropropene	4.120	75	27091	0.833	ppbV		96
50) benzene	4.177	78	55443	0.984	ppbV	#	93
51) thiophene	4.233	84	43860	0.380	ppbV		95
52) carbon tetrachloride	4.252	117	41398	0.940	ppbV		100
53) cyclohexane	4.309	56	23529	1.298	ppbV		97
54) tert-amyl methyl ether	4.488	73	45792	0.928	ppbV		99
55) dibromomethane	4.544	93	25351	1.028	ppbV		99
56) 1,2-dichloropropane	4.563	63	19324	0.951	ppbV		93
57) bromodichloromethane	4.648	83	40711	1.321	ppbV	#	83
58) 1,4-dioxane	4.695	88	11983	1.382	ppbV	#	76
59) trichloroethene	4.676	130	26237	0.892	ppbV		97
60) 2,2,4-trimethylpentane	4.724	57	72493	1.247	ppbV	#	96
61) methyl methacrylate	4.818	41	18436	0.937	ppbV		95
62) heptane	4.865	43	20598	1.144	ppbV	#	86
63) cis-1,3-dichloropropene	5.110	75	29333	0.942	ppbV		98
64) 4-methyl-2-pentanone	5.150	43	29765	1.177	ppbV		98
65) trans-1,3-dichloropropene	5.373	75	23075	0.908	ppbV		94
66) 1,1,2-trichloroethane	5.445	97	24475	0.946	ppbV		92

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	68696	0.903	ppbV		100
70) 2-methylthiophene	5.613	97	63632	0.326	ppbV		93
71) 1,3-dichloropropane	5.605	76	34865	0.957	ppbV		98
72) 2-hexanone	5.757	43	29186	1.095	ppbV		95
73) 3-methylthiophene	5.701	97	67022	0.318	ppbV		96
74) dibromochloromethane	5.780	129	40341	1.172	ppbV		97
75) 1,2-dibromoethane	5.900	107	36993	0.877	ppbV		99
76) butyl acetate	6.092	73	7376	0.810	ppbV		91
77) octane	6.132	85	20842	0.896	ppbV	#	99
78) tetrachloroethene	6.140	166	34978	0.844	ppbV		94
79) 1,1,1,2-tetrachloroethane	6.471	131	28564	0.862	ppbV		96
80) chlorobenzene	6.471	112	57473	0.901	ppbV		96
81) ethylbenzene	6.673	91	84957	0.833	ppbV		95
82) 2-ethylthiophene	6.689	97	75728	0.304	ppbV		97
83) m+p-xylene	6.766	91	142165	1.751	ppbV		92
84) bromoform	6.766	173	33949	0.981	ppbV		99
85) styrene	6.940	104	47600	0.786	ppbV		94
86) 1,1,2,2-tetrachloroethane	6.987	83	53357	0.873	ppbV		95
87) o-xylene	6.987	91	67754	0.841	ppbV		90
88) 1,2,3-trichloropropane	7.051	75	38014	0.888	ppbV		98
89) nonane	7.155	43	33811	0.837	ppbV		98
91) isopropylbenzene	7.295	105	96904	0.872	ppbV		96
92) bromobenzene	7.307	77	63290	1.147	ppbV		89
93) 2-chlorotoluene	7.523	126	25011	0.853	ppbV		97
94) n-propylbenzene	7.563	120	25948	0.786	ppbV		66
95) 4-chlorotoluene	7.563	126	25683	0.811	ppbV		77
96) 4-ethyl toluene	7.643	105	86307	1.061	ppbV		97
97) 1,3,5-trimethylbenzene	7.683	105	75033	0.786	ppbV		96
98) tert-butylbenzene	7.890	119	82988	0.782	ppbV		96
99) 1,2,4-trimethylbenzene	7.898	105	77951	0.782	ppbV	#	89
100) decane	8.002	57	45388	0.840	ppbV		99
101) Benzyl Chloride	7.954	91	40494	0.843	ppbV		96
102) 1,3-dichlorobenzene	7.954	146	59236	0.804	ppbV		95
103) 1,4-dichlorobenzene	7.994	146	59035	0.807	ppbV		94
104) sec-butylbenzene	8.042	105	123343	0.869	ppbV		97
105) 1,2,3-trimethylbenzene	8.122	105	83448	0.813	ppbV		94
106) p-isopropyltoluene	8.146	119	108233	0.805	ppbV		98
107) 1,2-dichlorobenzene	8.186	146	56546	0.786	ppbV		94
108) n-butylbenzene	8.385	91	95315	0.799	ppbV		91
109) indan	8.226	117	72721	0.830	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

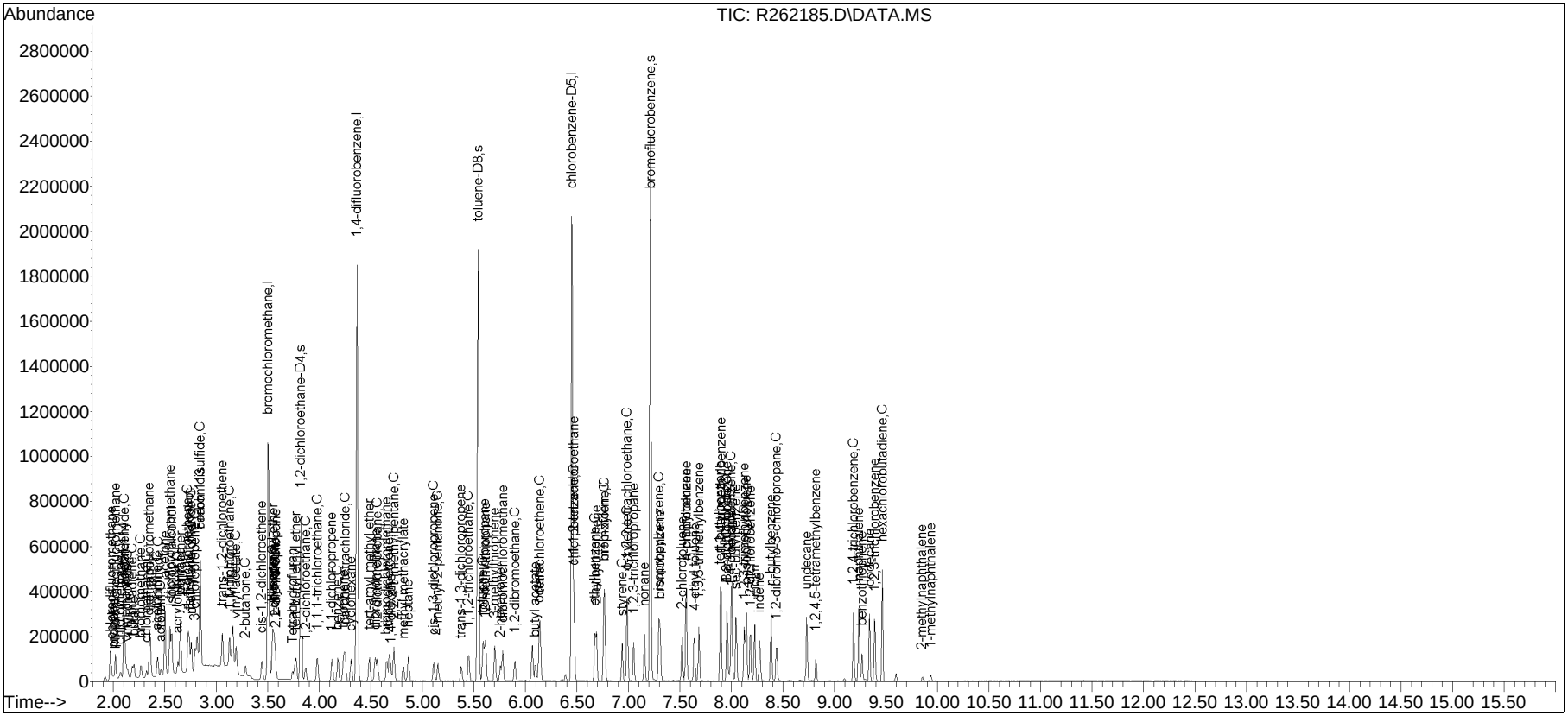
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.274	115	57144	0.789	ppbV		97
111) 1,2-dibromo-3-chloropr...	8.433	75	24422	0.774	ppbV	#	74
112) undecane	8.729	57	47853	0.713	ppbV		96
113) 1,2,4,5-tetramethylben...	8.816	119	32031	0.545	ppbV		95
114) dodecane	9.341	57	51263	0.591	ppbV		97
115) 1,2,4-trichlorobenzene	9.183	180	48821	0.711	ppbV		98
116) naphthalene	9.236	128	133159	0.827	ppbV		99
117) 1,2,3-trichlorobenzene	9.388	180	46820	0.608	ppbV	#	95
118) benzothiophene	9.265	134	49301	0.602	ppbV		97
119) hexachlorobutadiene	9.464	225	41236	0.697	ppbV	#	84
120) 2-methylnaphthalene	9.850	142	4351	0.254	ppbV		97
121) 1-methylnaphthalene	9.938	142	7033	0.295	ppbV		93

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2041764
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 15 09:49:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

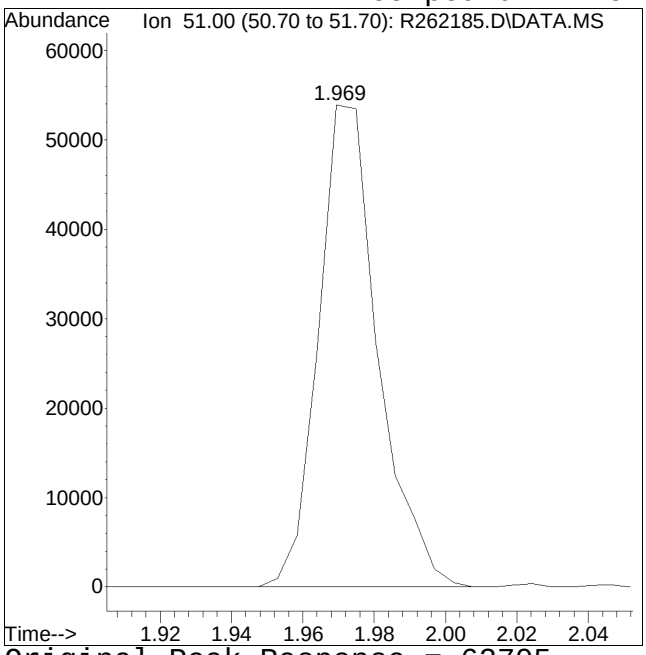


Manual Integration Report

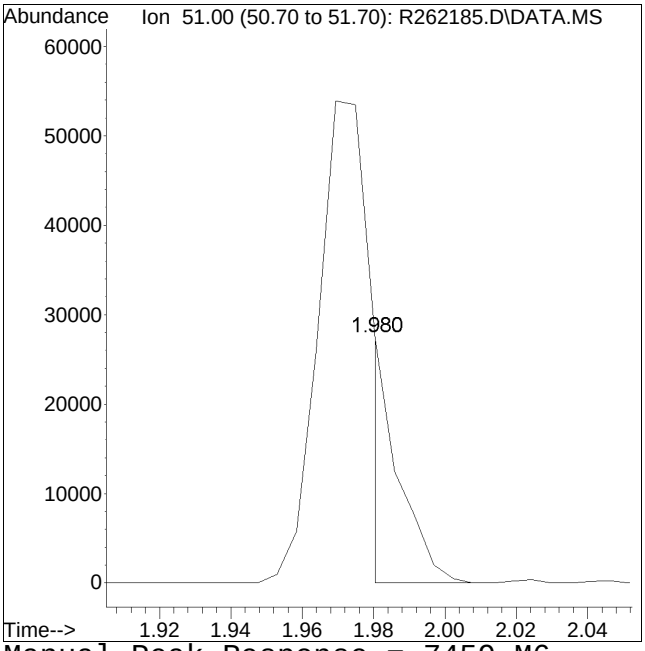
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262185.D
Date Inj'd : 3/14/2025 11:16 pm
Sample : ITO15-LLSTD1.0

Method : TFS26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 62705



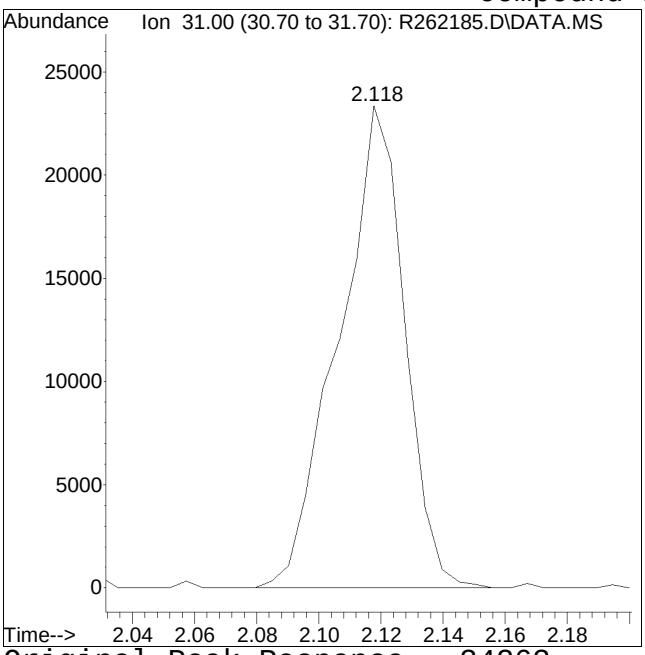
Manual Peak Response = 7459 M6

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

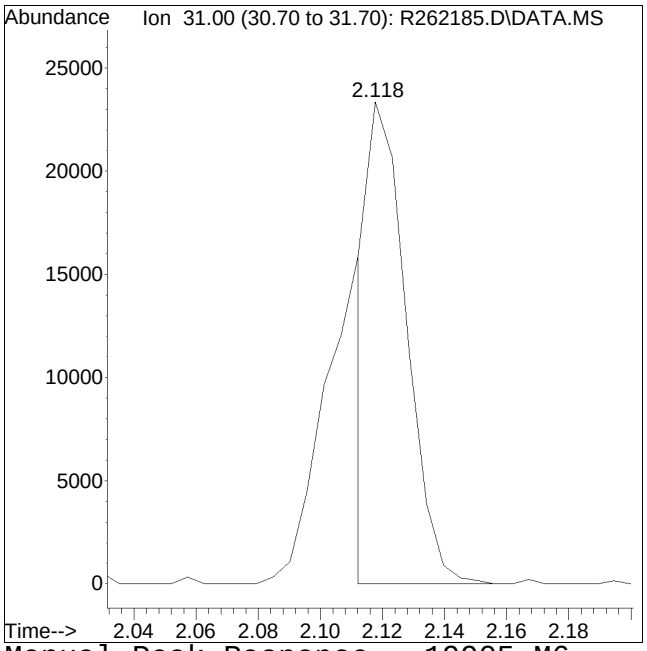
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 34263



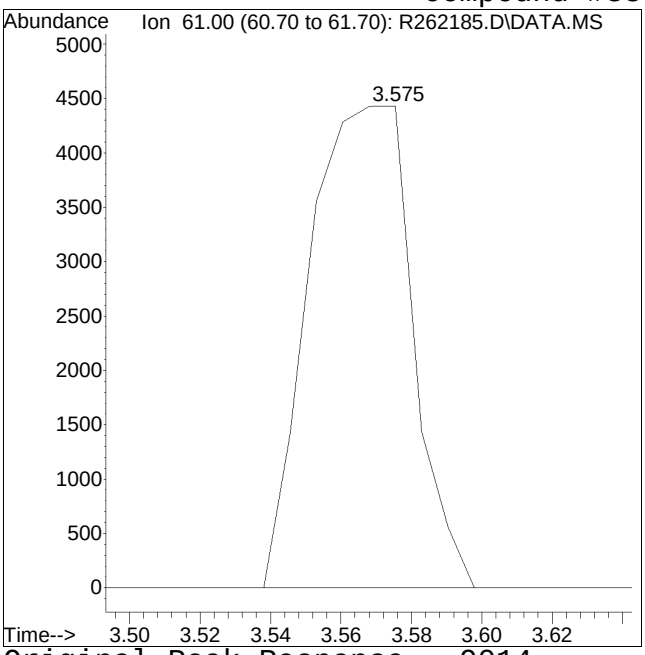
Manual Peak Response = 19905 M6

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

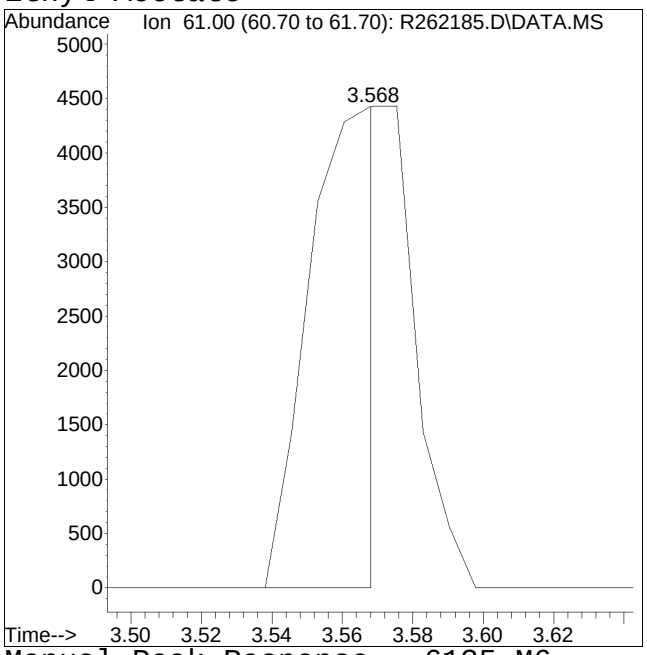
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 9014



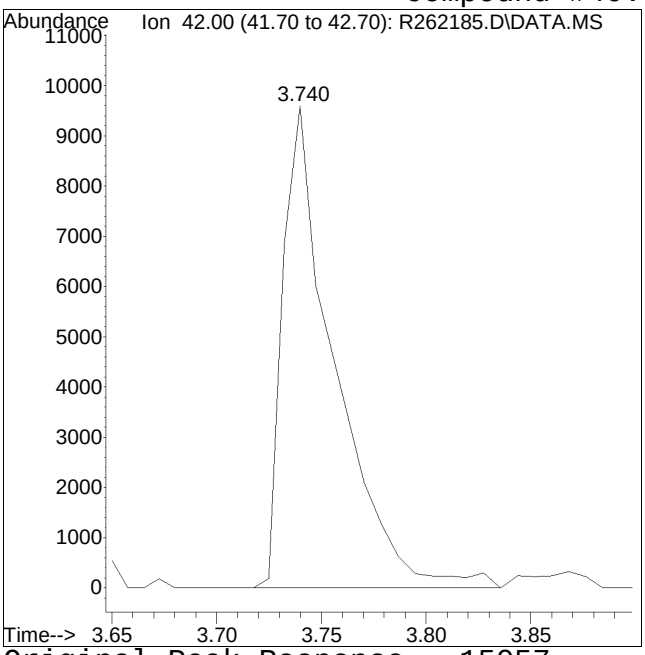
Manual Peak Response = 6135 M6

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

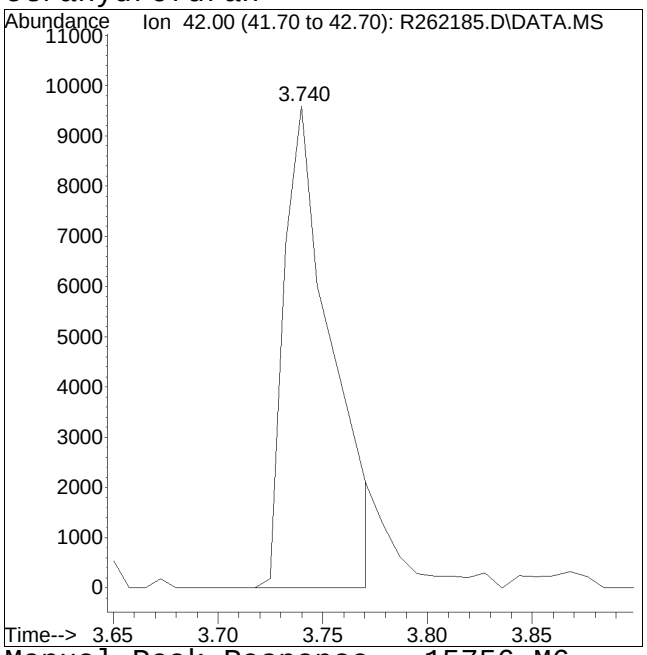
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/15/2025 9:49 am

Compound #40: Tetrahydrofuran



Original Peak Response = 15057



Manual Peak Response = 15756 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:49:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	248154	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 96.49%			
43) 1,4-difluorobenzene	4.365	114	854096	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 94.13%			
67) chlorobenzene-D5	6.449	54	139420	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 97.08%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	272037	10.297	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.97%			
69) toluene-D8	5.541	98	766386	9.743	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.43%			
90) bromofluorobenzene	7.214	95	474239	9.818	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.18%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.986	51	31063M6	2.883	ppbV	
3) propylene	2.002	41	20058	4.593	ppbV	94
4) propane	2.013	29	17775	4.372	ppbV #	87
5) dichlorodifluoromethane	2.024	85	216787	4.778	ppbV	98
6) chloromethane	2.074	50	77300	4.896	ppbV	94
7) Freon-114	2.107	85	299849	4.921	ppbV	98
8) methanol	2.123	31	95130M6	23.088	ppbV	
9) vinyl chloride	2.140	62	101970	5.097	ppbV	99
10) 1,3-butadiene	2.184	54	47985	4.936	ppbV	90
11) butane	2.206	43	115039	4.965	ppbV	99
12) acetaldehyde	2.112	29	237097	25.821	ppbV	89
13) bromomethane	2.272	94	104919	5.031	ppbV	97
14) chloroethane	2.326	64	55710	4.937	ppbV	98
15) ethanol	2.359	31	286135	27.743	ppbV	98
16) dichlorofluoromethane	2.354	67	273726	5.115	ppbV	98
17) vinyl bromide	2.432	106	90059	4.462	ppbV	99
18) acrolein	2.466	56	55022	5.394	ppbV	95
19) acetone	2.500	43	637478	25.615	ppbV	96
20) acetonitrile	2.426	41	93603	5.086	ppbV	99
21) trichlorofluoromethane	2.551	101	406432	5.064	ppbV	100
22) isopropyl alcohol	2.568	45	379738	13.795	ppbV	100
23) acrylonitrile	2.624	53	120897	5.068	ppbV	99
24) pentane	2.653	43	229790	4.573	ppbV	100

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:49:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.653	31	127288	5.675	ppbV		97
26) 1,1-dichloroethene	2.727	61	290290	5.134	ppbV		97
27) tertiary butyl alcohol	2.736	59	334251	5.502	ppbV		99
28) methylene chloride	2.755	49	170153	5.111	ppbV		97
29) 3-chloropropene	2.794	41	121127	5.080	ppbV		97
30) carbon disulfide	2.846	76	309541	5.136	ppbV		93
31) Freon 113	2.846	101	343987	5.104	ppbV		98
32) trans-1,2-dichloroethene	3.058	61	167363	5.073	ppbV		98
33) 1,1-dichloroethane	3.129	63	303188	5.152	ppbV		97
34) MTBE	3.160	73	310398	5.023	ppbV		97
35) vinyl acetate	3.191	43	203783	4.916	ppbV		100
36) 2-butanone	3.279	43	107299	5.048	ppbV		97
37) cis-1,2-dichloroethene	3.441	61	121399	4.945	ppbV		95
38) Ethyl Acetate	3.553	61	18688M6	3.766	ppbV		
39) chloroform	3.561	83	212992	5.023	ppbV		97
40) Tetrahydrofuran	3.732	42	46012M6	4.666	ppbV		
41) 2,2-dichloropropane	3.575	77	159757	4.830	ppbV		97
42) 1,2-dichloroethane	3.868	62	134447	5.032	ppbV		98
44) hexane	3.546	57	87590	4.868	ppbV	#	69
45) diisopropyl ether	3.553	87	93733	4.801	ppbV		91
46) tert-butyl ethyl ether	3.770	59	260413	5.007	ppbV		95
48) 1,1,1-trichloroethane	3.982	97	215505	5.101	ppbV		97
49) 1,1-dichloropropene	4.120	75	163266	4.928	ppbV		93
50) benzene	4.177	78	302797	5.276	ppbV		99
51) thiophene	4.233	84	576226	4.899	ppbV		99
52) carbon tetrachloride	4.252	117	224571	5.006	ppbV		98
53) cyclohexane	4.309	56	92463	5.008	ppbV		96
54) tert-amyl methyl ether	4.479	73	246219	4.898	ppbV		98
55) dibromomethane	4.545	93	126092	5.021	ppbV		94
56) 1,2-dichloropropane	4.563	63	105257	5.085	ppbV		95
57) bromodichloromethane	4.658	83	159346	5.078	ppbV		97
58) 1,4-dioxane	4.686	88	44410	5.030	ppbV		93
59) trichloroethene	4.686	130	144963	4.841	ppbV		97
60) 2,2,4-trimethylpentane	4.724	57	295575	4.991	ppbV		99
61) methyl methacrylate	4.808	41	98054	4.893	ppbV		98
62) heptane	4.865	43	95238	5.191	ppbV		97
63) cis-1,3-dichloropropene	5.110	75	156074	4.922	ppbV		99
64) 4-methyl-2-pentanone	5.142	43	126674	4.919	ppbV		99
65) trans-1,3-dichloropropene	5.373	75	125114	4.832	ppbV		98
66) 1,1,2-trichloroethane	5.445	97	130639	4.958	ppbV		99

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:49:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	378083	4.862	ppbV	99
70) 2-methylthiophene	5.613	97	965300	4.843	ppbV	98
71) 1,3-dichloropropane	5.605	76	181116	4.867	ppbV	99
72) 2-hexanone	5.749	43	129508	4.755	ppbV	96
73) 3-methylthiophene	5.701	97	1048071	4.860	ppbV	100
74) dibromochloromethane	5.781	129	166066	4.721	ppbV	99
75) 1,2-dibromoethane	5.900	107	210657	4.889	ppbV	96
76) butyl acetate	6.092	73	43929	4.719	ppbV	95
77) octane	6.132	85	114741	4.830	ppbV	98
78) tetrachloroethene	6.140	166	197513	4.662	ppbV	96
79) 1,1,1,2-tetrachloroethane	6.466	131	166360	4.915	ppbV	97
80) chlorobenzene	6.471	112	316322	4.854	ppbV	99
81) ethylbenzene	6.673	91	500155	4.802	ppbV	100
82) 2-ethylthiophene	6.689	97	1225285	4.815	ppbV	99
83) m+p-xylene	6.766	91	805947	9.716	ppbV	99
84) bromoform	6.766	173	160751	4.545	ppbV	98
85) styrene	6.940	104	285510	4.611	ppbV	98
86) 1,1,2,2-tetrachloroethane	6.981	83	305811	4.897	ppbV	99
87) o-xylene	6.987	91	394638	4.796	ppbV	96
88) 1,2,3-trichloropropane	7.045	75	214753	4.912	ppbV	98
89) nonane	7.155	43	197642	4.789	ppbV	98
91) isopropylbenzene	7.295	105	545378	4.803	ppbV	99
92) bromobenzene	7.307	77	279812M6	4.963	ppbV	
93) 2-chlorotoluene	7.523	126	142653	4.759	ppbV	98
94) n-propylbenzene	7.555	120	155116	4.598	ppbV	81
95) 4-chlorotoluene	7.563	126	153454	4.745	ppbV	89
96) 4-ethyl toluene	7.635	105	397520	4.784	ppbV	98
97) 1,3,5-trimethylbenzene	7.683	105	450952	4.621	ppbV	99
98) tert-butylbenzene	7.891	119	509874	4.701	ppbV	98
99) 1,2,4-trimethylbenzene	7.898	105	481881	4.733	ppbV	99
100) decane	8.002	57	263047	4.763	ppbV	98
101) Benzyl Chloride	7.954	91	207539	4.228	ppbV	98
102) 1,3-dichlorobenzene	7.954	146	352658	4.682	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	355295	4.753	ppbV	98
104) sec-butylbenzene	8.042	105	704978	4.862	ppbV	99
105) 1,2,3-trimethylbenzene	8.122	105	504320	4.807	ppbV	99
106) p-isopropyltoluene	8.138	119	667613	4.859	ppbV	98
107) 1,2-dichlorobenzene	8.178	146	350360	4.765	ppbV	99
108) n-butylbenzene	8.385	91	568784	4.668	ppbV	99
109) indan	8.226	117	438021	4.893	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:49:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

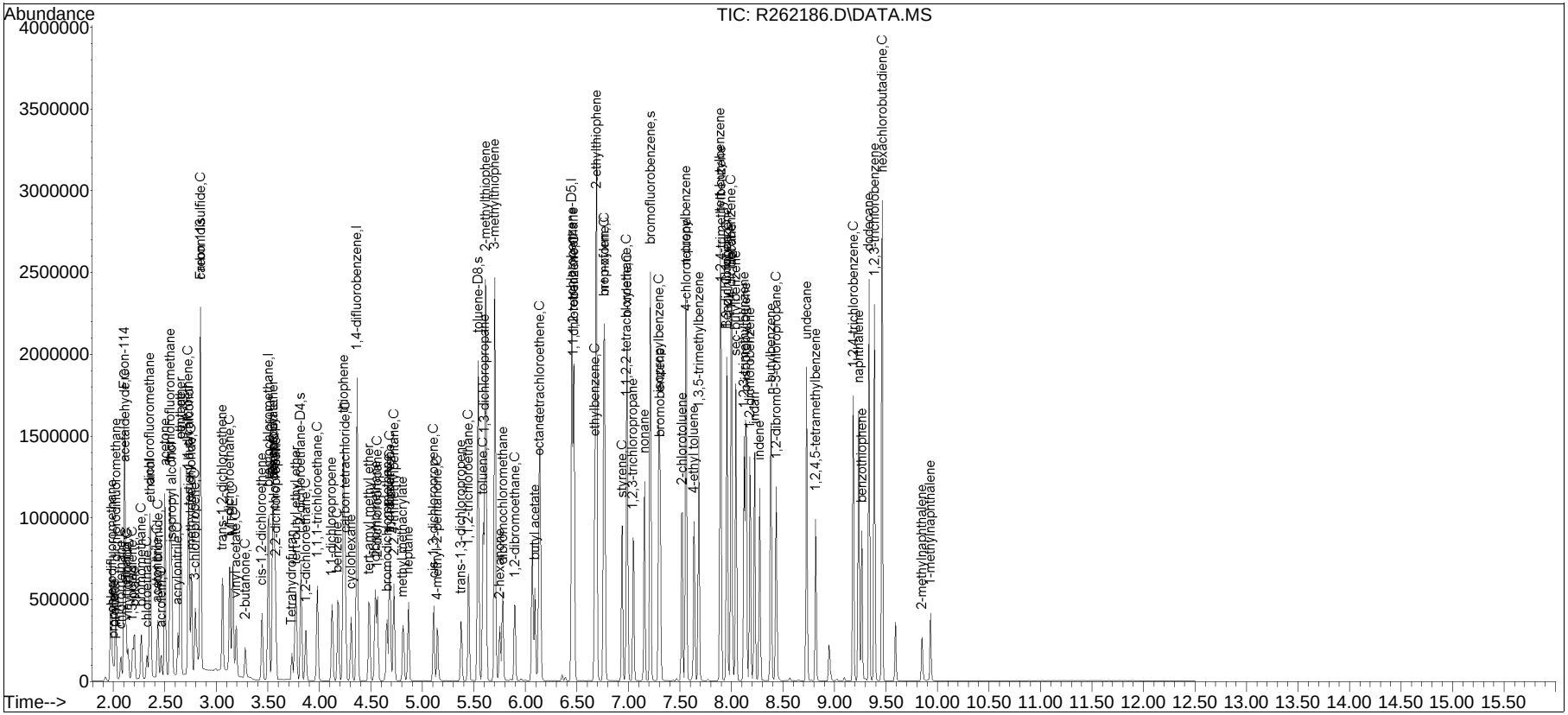
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	341675	4.616	ppbV	100
111) 1,2-dibromo-3-chloropr...	8.433	75	148084	4.591	ppbV	96
112) undecane	8.729	57	317308	4.630	ppbV	99
113) 1,2,4,5-tetramethylben...	8.817	119	287257	4.782	ppbV	96
114) dodecane	9.335	57	395180	4.462	ppbV	99
115) 1,2,4-trichlorobenzene	9.183	180	306143	4.365	ppbV	97
116) naphthalene	9.236	128	728661	4.427	ppbV	100
117) 1,2,3-trichlorobenzene	9.388	180	375108	4.765	ppbV	98
118) benzothiophene	9.265	134	364555	4.357	ppbV	97
119) hexachlorobutadiene	9.464	225	278780	4.610	ppbV	93
120) 2-methylnaphthalene	9.850	142	67623	3.867	ppbV	98
121) 1-methylnaphthalene	9.932	142	102487	4.201	ppbV	95

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:49:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

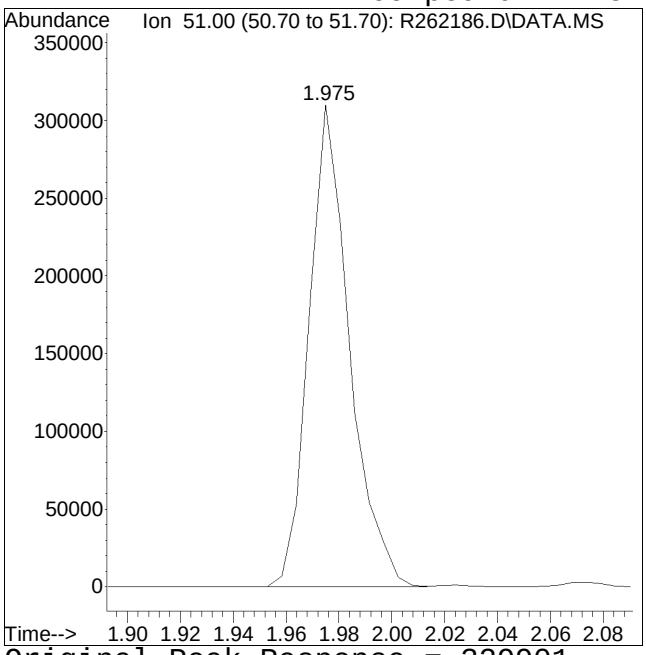


Manual Integration Report

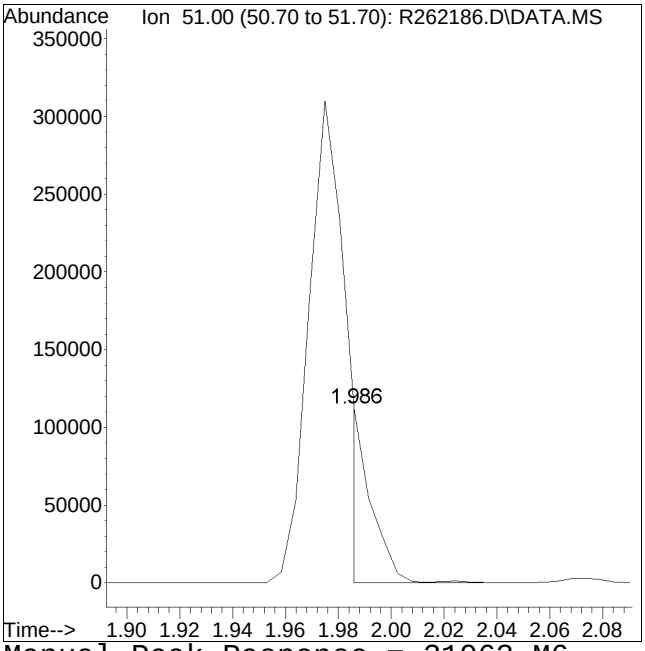
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262186.D
Date Inj'd : 3/14/2025 11:50 pm
Sample : ITO15-LLSTD5.0

Method : TFS26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 329901



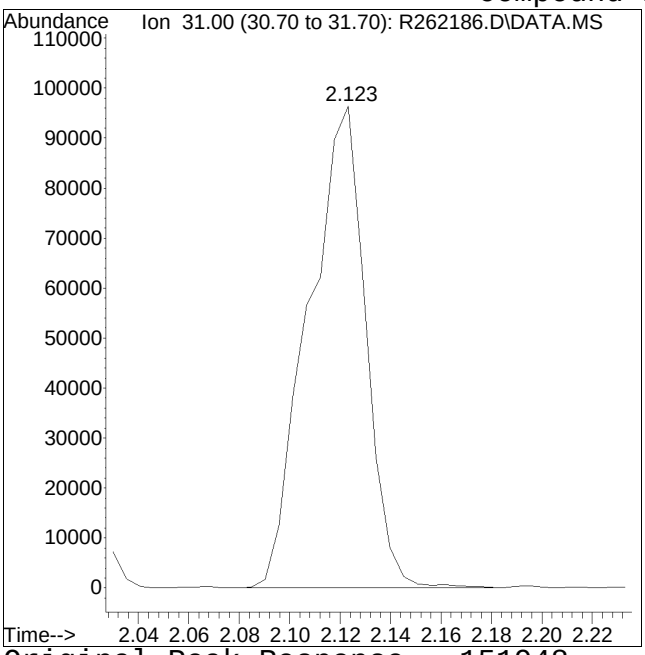
Manual Peak Response = 31063 M6

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

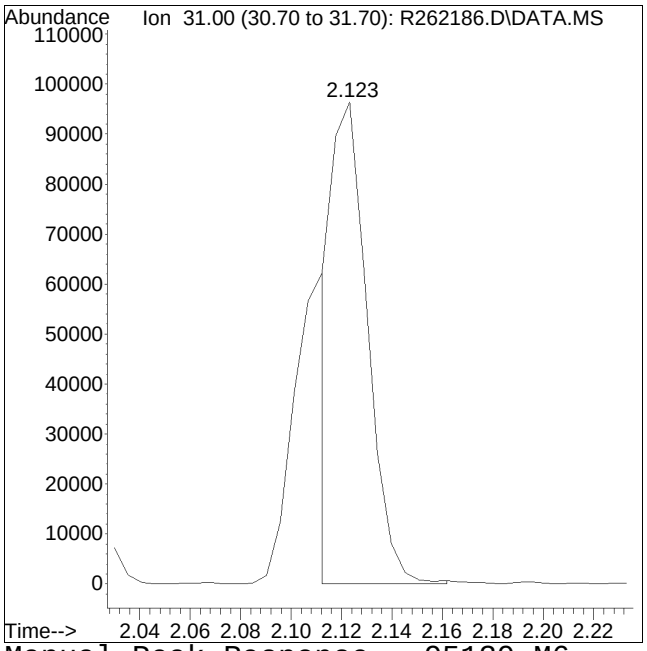
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 151948



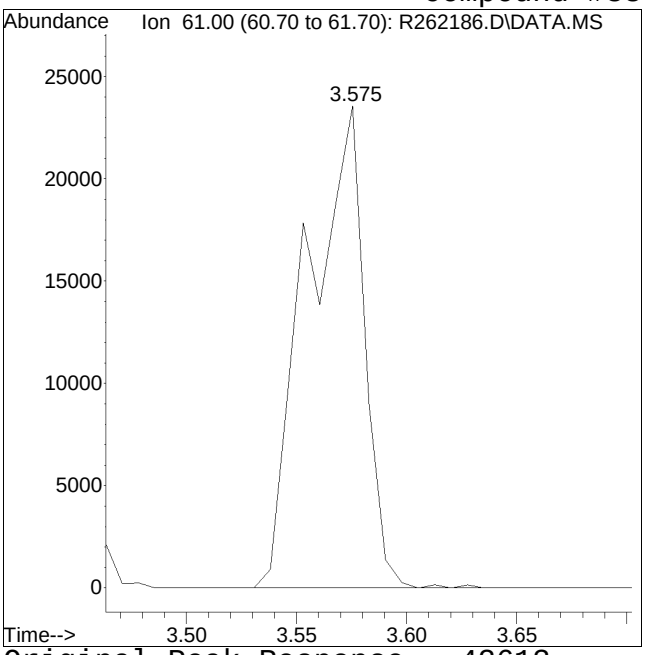
Manual Peak Response = 95130 M6

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

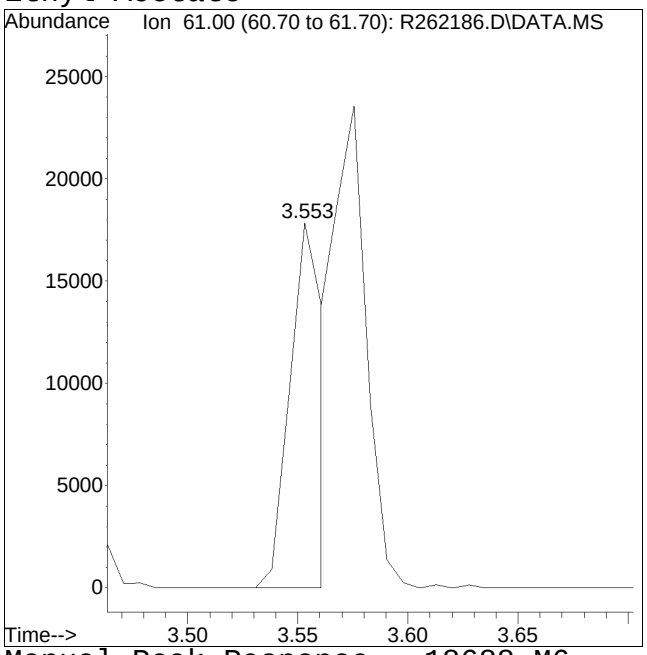
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 42613



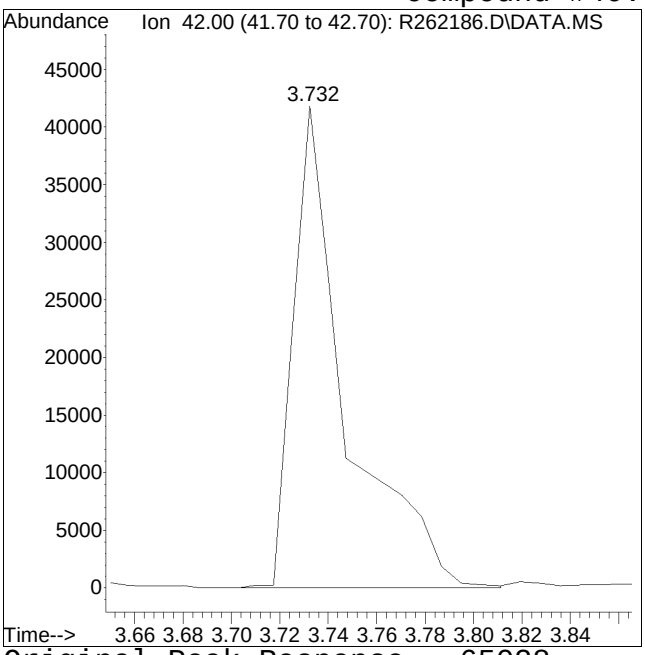
Manual Peak Response = 18688 M6

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

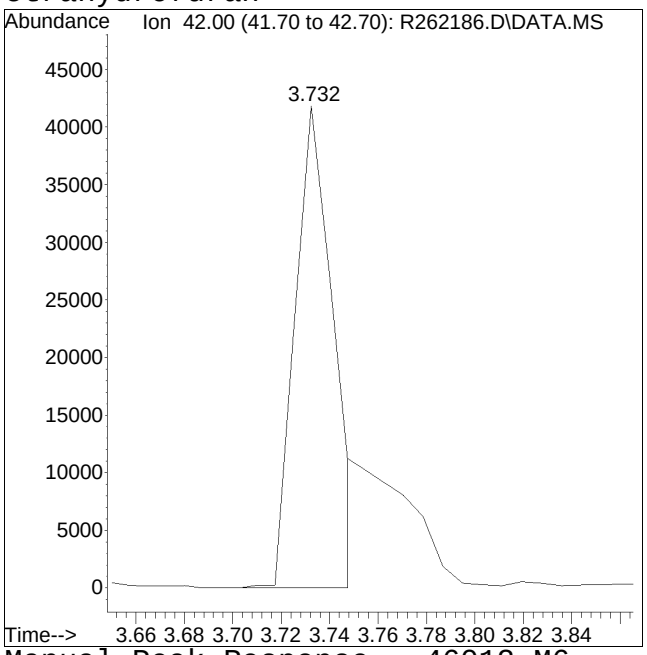
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/15/2025 9:49 am

Compound #40: Tetrahydrofuran



Original Peak Response = 65028



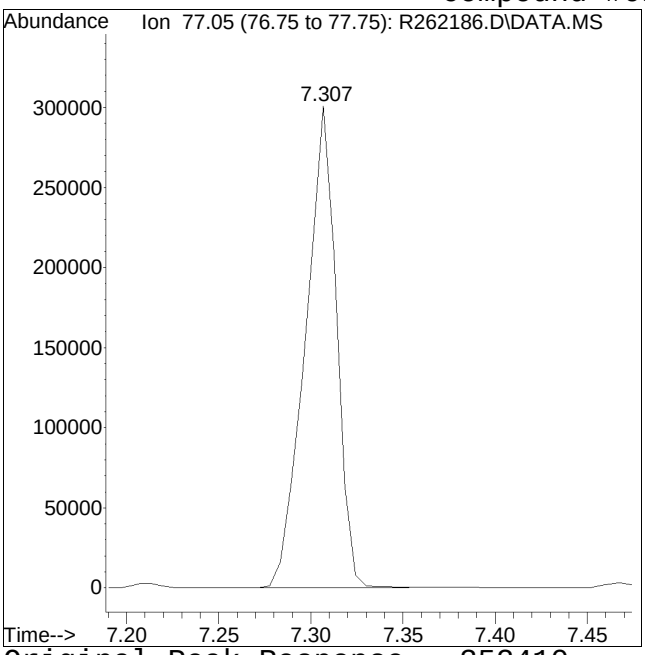
Manual Peak Response = 46012 M6

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

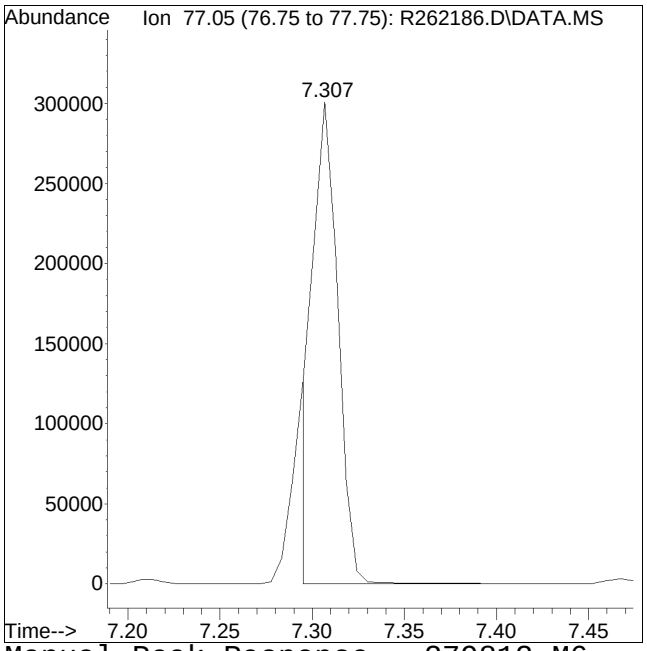
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/15/2025 9:49 am

Compound #92: bromobenzene



Original Peak Response = 352410



Manual Peak Response = 279812 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:44:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 02 07:48:22 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	257186	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 100.00%			
43) 1,4-difluorobenzene	4.365	114	907371	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 100.00%			
67) chlorobenzene-D5	6.449	54	143611	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.827	65	280663	10.031	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
69) toluene-D8	5.541	98	810286	10.756	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.56%			
90) bromofluorobenzene	7.214	95	497554	10.876	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.76%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.986	51	111680M6	8.583	ppbV	
3) propylene	2.008	41	45257	5.139	ppbV	93
4) propane	2.013	29	42137	6.191	ppbV	99
5) dichlorodifluoromethane	2.024	85	470230	9.255	ppbV	98
6) chloromethane	2.074	50	163625	10.111	ppbV	97
7) Freon-114	2.107	85	631483	10.407	ppbV	97
8) methanol	2.123	31	213516M6	46.617	ppbV	
9) vinyl chloride	2.145	62	207324	10.409	ppbV	98
10) 1,3-butadiene	2.189	54	100749	8.251	ppbV	96
11) butane	2.206	43	240127	9.404	ppbV	98
12) acetaldehyde	2.112	29	475834	39.118	ppbV #	79
13) bromomethane	2.277	94	216121	10.442	ppbV	96
14) chloroethane	2.332	64	116944	10.660	ppbV	99
15) ethanol	2.359	31	534454	42.154	ppbV	90
16) dichlorofluoromethane	2.359	67	554638	10.276	ppbV	97
17) vinyl bromide	2.438	106	209184	9.765	ppbV	99
18) acrolein	2.466	56	105727	10.335	ppbV	94
19) acetone	2.505	43	1289622	42.321	ppbV	96
20) acetonitrile	2.432	41	190723	10.111	ppbV	98
21) trichlorofluoromethane	2.556	101	831820	11.195	ppbV	100
22) isopropyl alcohol	2.568	45	713207	17.977	ppbV	100
23) acrylonitrile	2.630	53	247218	13.040	ppbV	97
24) pentane	2.653	43	520818	12.084	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:44:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 02 07:48:22 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.658	31	232478	9.853	ppbV		100
26) 1,1-dichloroethene	2.731	61	586052	12.366	ppbV		100
27) tertiary butyl alcohol	2.736	59	629614	10.620	ppbV		96
28) methylene chloride	2.760	49	345011	12.665	ppbV		100
29) 3-chloropropene	2.798	41	247106	9.499	ppbV		99
30) carbon disulfide	2.851	76	624662	10.067	ppbV		97
31) Freon 113	2.851	101	698480	12.588	ppbV		99
32) trans-1,2-dichloroethene	3.062	61	341939	10.074	ppbV		99
33) 1,1-dichloroethane	3.133	63	609950	12.523	ppbV		99
34) MTBE	3.164	73	640501	9.313	ppbV		98
35) vinyl acetate	3.195	43	429602	9.561	ppbV		98
36) 2-butanone	3.284	43	220309	7.222	ppbV		97
37) cis-1,2-dichloroethene	3.448	61	254411	9.468	ppbV		95
38) Ethyl Acetate	3.553	61	51427M6	8.364	ppbV		
39) chloroform	3.568	83	439467	9.803	ppbV		96
40) Tetrahydrofuran	3.732	42	102198M6	6.609	ppbV		
41) 2,2-dichloropropane	3.575	77	342828	8.904	ppbV		99
42) 1,2-dichloroethane	3.868	62	276929	9.383	ppbV		99
44) hexane	3.546	57	191166	7.359	ppbV	#	67
45) diisopropyl ether	3.553	87	207409	8.857	ppbV		93
46) tert-butyl ethyl ether	3.779	59	552496	8.508	ppbV		95
48) 1,1,1-trichloroethane	3.982	97	448808	9.140	ppbV		96
49) 1,1-dichloropropene	4.130	75	351981	9.923	ppbV		91
50) benzene	4.186	78	609728	9.442	ppbV		98
51) thiophene	4.233	84	1249590	17.184	ppbV		99
52) carbon tetrachloride	4.252	117	476596	9.335	ppbV		100
53) cyclohexane	4.309	56	196131	7.362	ppbV		96
54) tert-amyl methyl ether	4.488	73	534076	8.782	ppbV		96
55) dibromomethane	4.545	93	266813	9.376	ppbV		96
56) 1,2-dichloropropane	4.563	63	219915	9.674	ppbV		96
57) bromodichloromethane	4.658	83	333366	7.751	ppbV		98
58) 1,4-dioxane	4.686	88	93795	6.901	ppbV		99
59) trichloroethene	4.686	130	318141	9.496	ppbV		98
60) 2,2,4-trimethylpentane	4.724	57	629204	7.589	ppbV		97
61) methyl methacrylate	4.808	41	212911	8.539	ppbV		92
62) heptane	4.865	43	194896	7.020	ppbV		97
63) cis-1,3-dichloropropene	5.110	75	336892	9.167	ppbV		94
64) 4-methyl-2-pentanone	5.142	43	273579	7.249	ppbV		98
65) trans-1,3-dichloropropene	5.373	75	275094	9.045	ppbV		94
66) 1,1,2-trichloroethane	5.445	97	279907	9.860	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:44:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 02 07:48:22 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	801015	10.120	ppbV	97
70) 2-methylthiophene	5.613	97	2053112	19.530	ppbV	98
71) 1,3-dichloropropane	5.605	76	383337	10.225	ppbV	96
72) 2-hexanone	5.749	43	280535	7.837	ppbV	98
73) 3-methylthiophene	5.701	97	2221310	19.717	ppbV	98
74) dibromochloromethane	5.781	129	362309	8.138	ppbV	99
75) 1,2-dibromoethane	5.900	107	443814	10.142	ppbV	98
76) butyl acetate	6.092	73	95889	9.872	ppbV	85
77) octane	6.132	85	244692	9.553	ppbV	96
78) tetrachloroethene	6.140	166	436370	10.239	ppbV	92
79) 1,1,1,2-tetrachloroethane	6.466	131	348614	9.605	ppbV	98
80) chlorobenzene	6.471	112	671240	10.244	ppbV	100
81) ethylbenzene	6.673	91	1072936	10.334	ppbV	99
82) 2-ethylthiophene	6.689	97	2621170	19.675	ppbV	98
83) m+p-xylene	6.766	91	1708872	20.063	ppbV	100
84) bromoform	6.766	173	364316	8.085	ppbV	100
85) styrene	6.940	104	637750	10.576	ppbV	98
86) 1,1,2,2-tetrachloroethane	6.981	83	643261	10.469	ppbV	99
87) o-xylene	6.987	91	847544	10.329	ppbV	99
88) 1,2,3-trichloropropane	7.045	75	450352	10.131	ppbV	96
89) nonane	7.155	43	425126	9.484	ppbV	97
91) isopropylbenzene	7.295	105	1169678	10.255	ppbV	100
92) bromobenzene	7.307	77	580794M6	12.421	ppbV	
93) 2-chlorotoluene	7.523	126	308753	10.179	ppbV	98
94) n-propylbenzene	7.555	120	347515	10.137	ppbV	98
95) 4-chlorotoluene	7.563	126	333158	10.377	ppbV	91
96) 4-ethyl toluene	7.635	105	855836	8.526	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	1005169	10.666	ppbV	99
98) tert-butylbenzene	7.891	119	1117207	10.446	ppbV	100
99) 1,2,4-trimethylbenzene	7.899	105	1048717	10.476	ppbV	97
100) decane	8.002	57	568931	10.110	ppbV	95
101) Benzyl Chloride	7.954	91	505657	6.904	ppbV	98
102) 1,3-dichlorobenzene	7.954	146	775855	10.702	ppbV	96
103) 1,4-dichlorobenzene	7.994	146	769930	10.351	ppbV	99
104) sec-butylbenzene	8.042	105	1493598	10.516	ppbV	99
105) 1,2,3-trimethylbenzene	8.122	105	1080676	10.313	ppbV	99
106) p-isopropyltoluene	8.146	119	1415201	10.662	ppbV	100
107) 1,2-dichlorobenzene	8.178	146	757397	10.675	ppbV	96
108) n-butylbenzene	8.385	91	1255181	10.893	ppbV	97
109) indan	8.226	117	922124	10.212	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 15 09:44:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 02 07:48:22 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

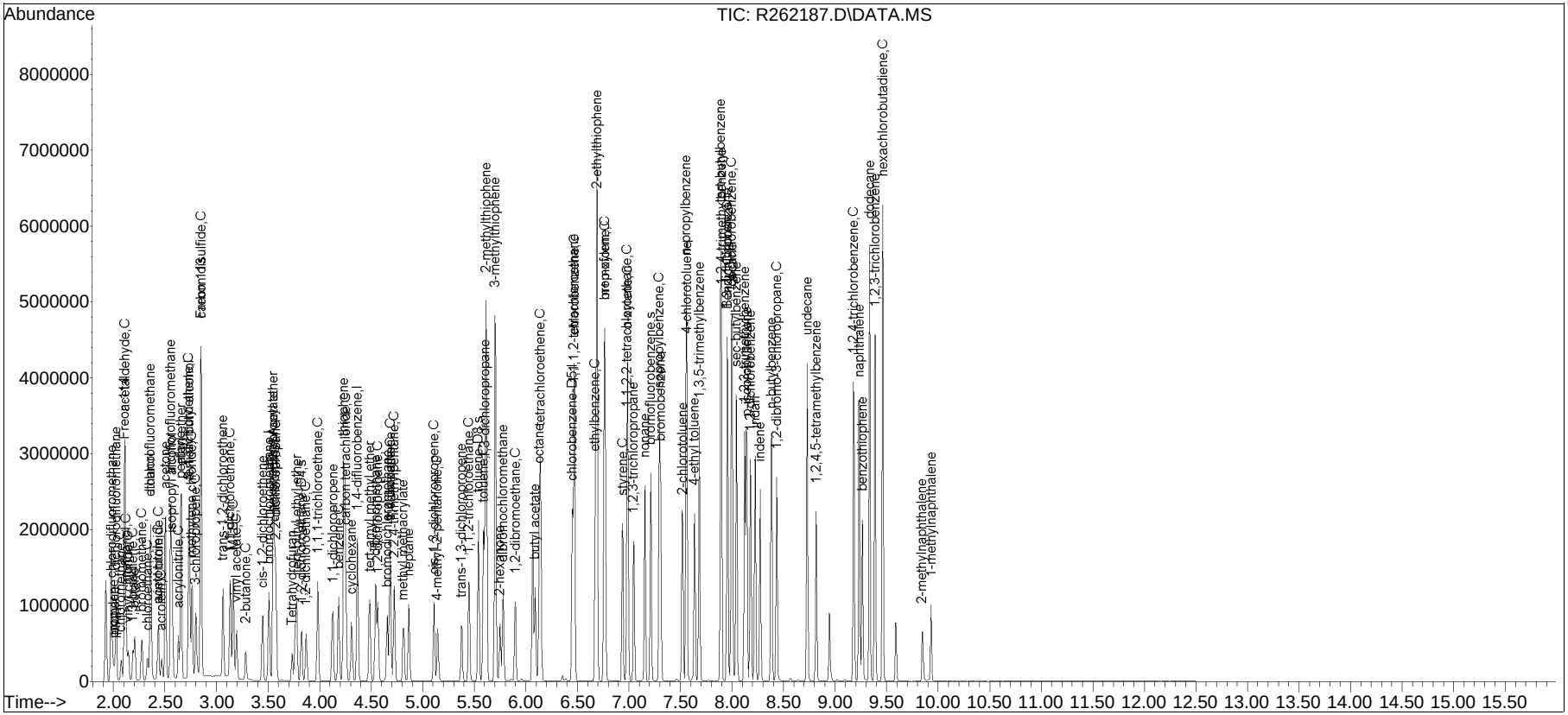
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	762501	10.468	ppbV	99
111) 1,2-dibromo-3-chloropr...	8.433	75	332247	9.929	ppbV	93
112) undecane	8.729	57	706000	10.161	ppbV	95
113) 1,2,4,5-tetramethylben...	8.817	119	618701	12.404	ppbV	98
114) dodecane	9.335	57	912299	11.503	ppbV	96
115) 1,2,4-trichlorobenzene	9.178	180	722510	10.448	ppbV	96
116) naphthalene	9.236	128	1695245	11.199	ppbV	100
117) 1,2,3-trichlorobenzene	9.388	180	810959	11.367	ppbV	99
118) benzothiophene	9.265	134	861830	12.354	ppbV	98
119) hexachlorobutadiene	9.464	225	622918	10.550	ppbV	99
120) 2-methylnaphthalene	9.844	142	180144	12.624	ppbV	96
121) 1-methylnaphthalene	9.932	142	251265	12.535	ppbV	99

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2041764
ALS Vial : 7 Sample Multiplier: 1

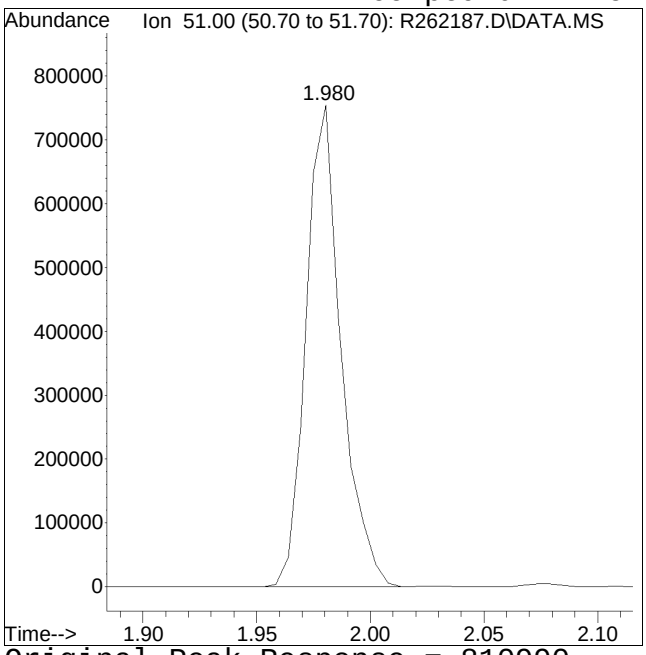
Quant Time: Mar 15 09:44:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Mar 02 07:48:22 2025
Response via : Initial Calibration



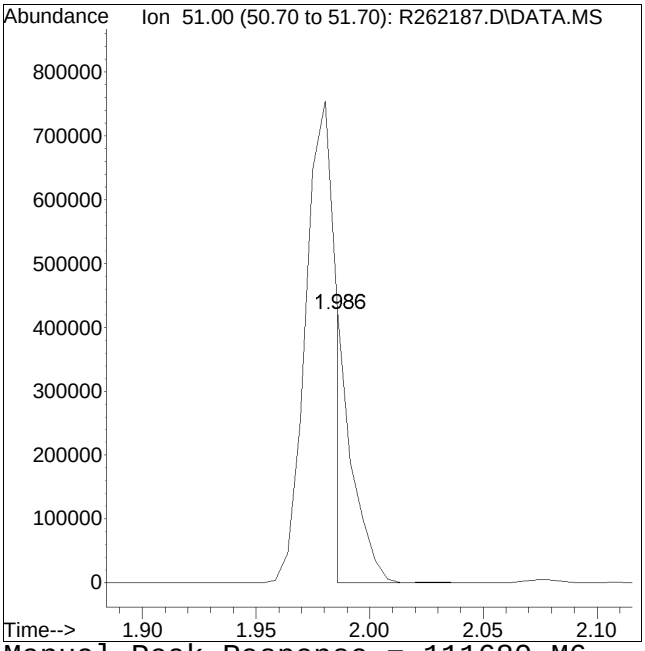
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/15/2025 9:44 am

Compound #2: chlorodifluoromethane



Original Peak Response = 810990



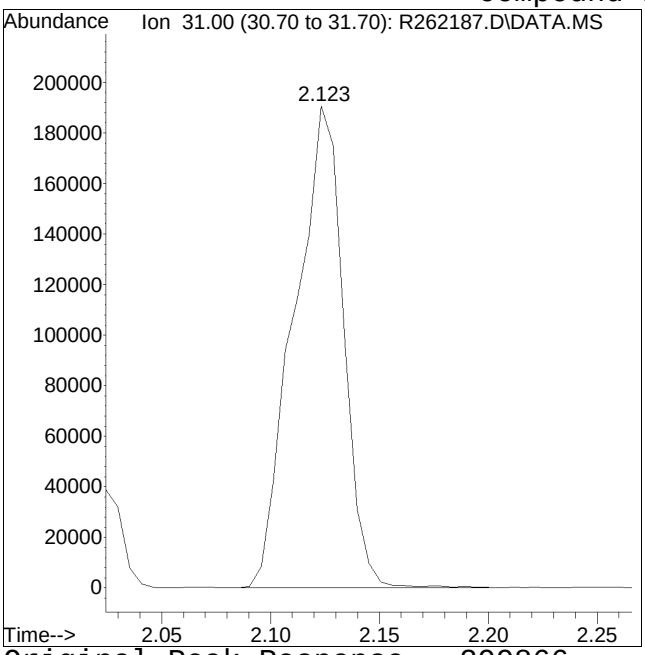
Manual Peak Response = 111680 M6

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

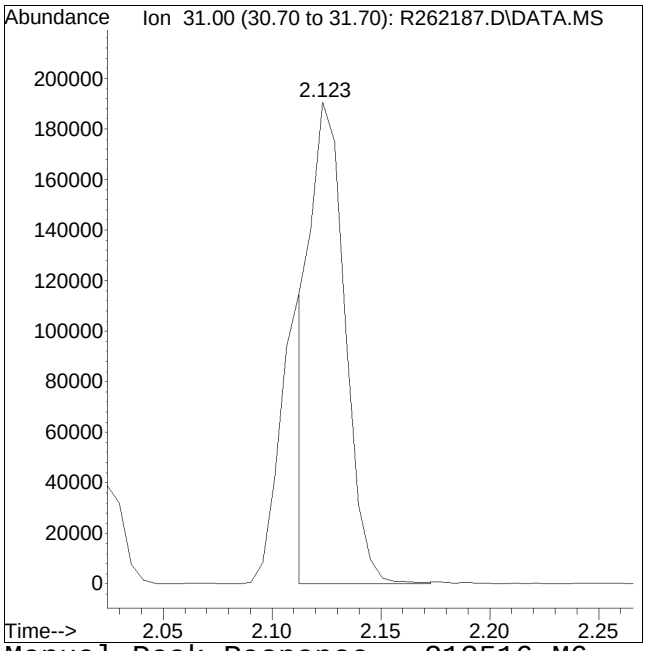
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/15/2025 9:44 am

Compound #8: methanol



Original Peak Response = 299866



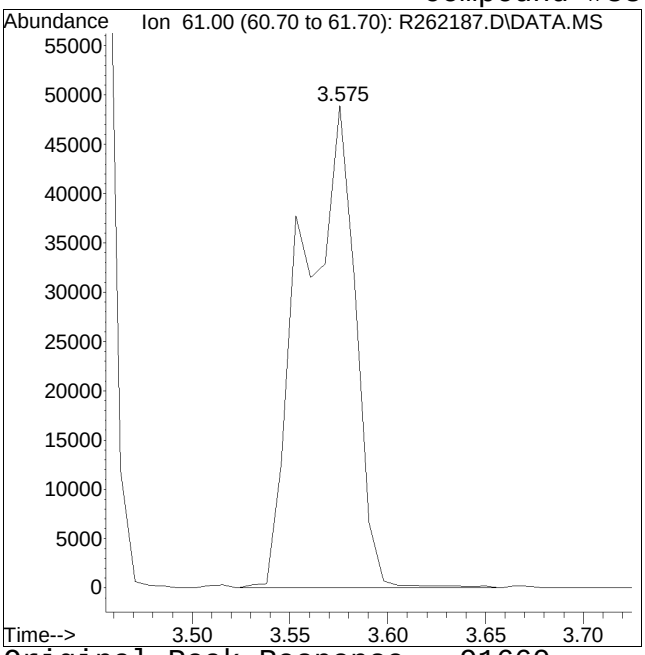
Manual Peak Response = 213516 M6

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

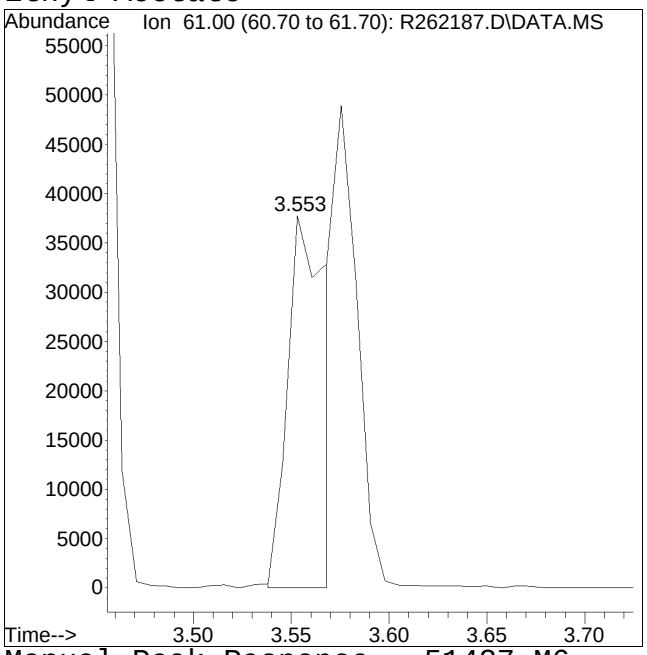
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/15/2025 9:44 am

Compound #38: Ethyl Acetate



Original Peak Response = 91660



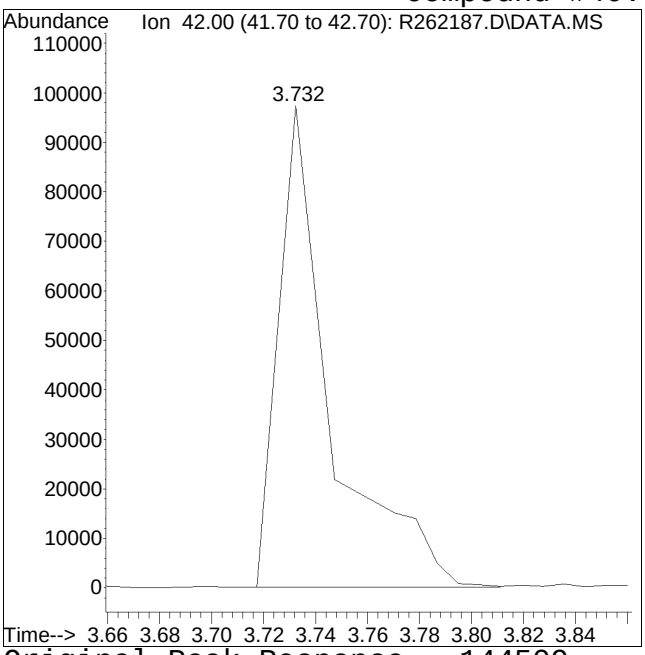
Manual Peak Response = 51427 M6

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

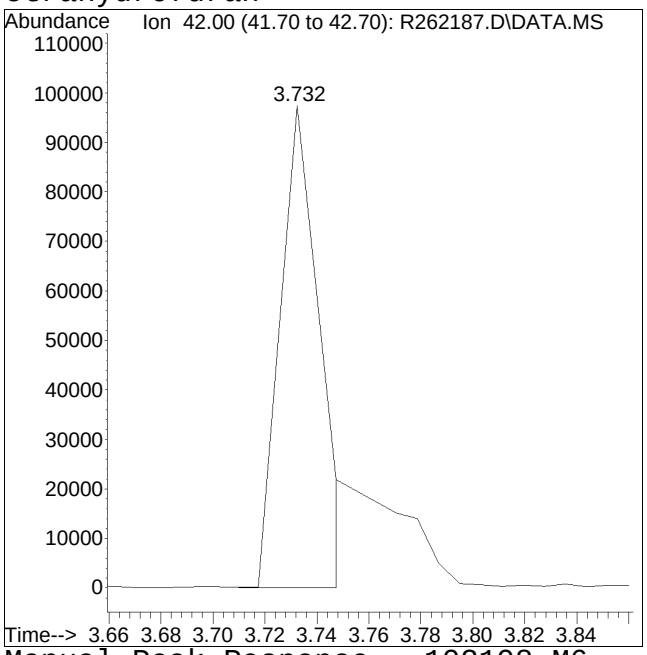
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/15/2025 9:44 am

Compound #40: Tetrahydrofuran



Original Peak Response = 144509



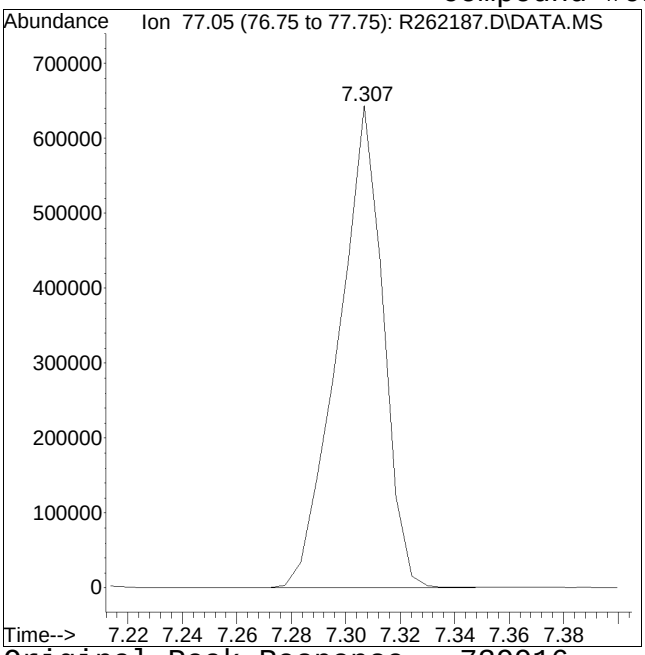
Manual Peak Response = 102198 M6

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

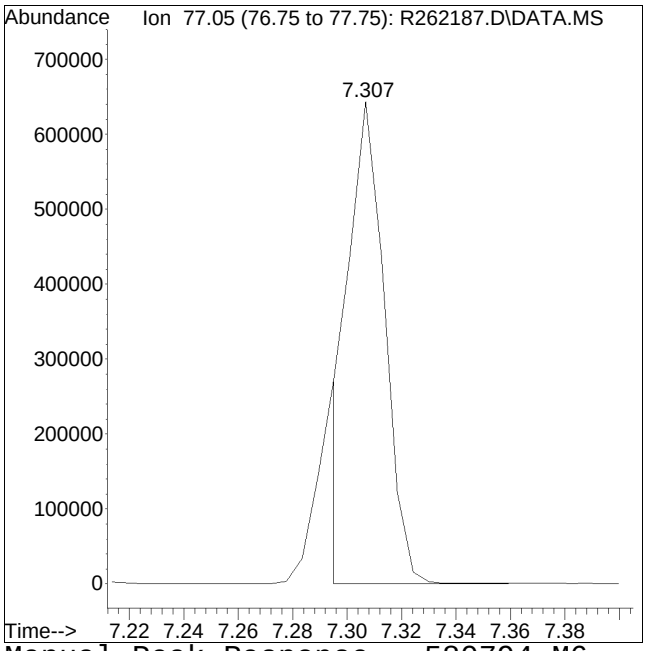
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/15/2025 9:44 am

Compound #92: bromobenzene



Original Peak Response = 739916



Manual Peak Response = 580794 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:36 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	271881	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 105.71%			
43) 1,4-difluorobenzene	4.365	114	965173	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 106.37%			
67) chlorobenzene-D5	6.449	54	150628	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 104.89%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	287687	9.636	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.36%			
69) toluene-D8	5.541	98	820579	9.655	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.55%			
90) bromofluorobenzene	7.214	95	504835	9.674	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.74%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.986	51	236140M6	20.002	ppbV	
3) propylene	2.002	41	126679	26.478	ppbV	93
4) propane	2.008	29	88590	19.888	ppbV #	68
5) dichlorodifluoromethane	2.024	85	947356	19.058	ppbV	100
6) chloromethane	2.074	50	322755	18.659	ppbV	99
7) Freon-114	2.107	85	1266374	18.970	ppbV	97
8) methanol	2.123	31	413762M6	91.656	ppbV	
9) vinyl chloride	2.145	62	416526	19.005	ppbV	98
10) 1,3-butadiene	2.189	54	263004	24.694	ppbV	98
11) butane	2.206	43	486716	19.174	ppbV	99
12) acetaldehyde	2.112	29	984714	97.880	ppbV	94
13) bromomethane	2.272	94	431453	18.884	ppbV	97
14) chloroethane	2.327	64	231006	18.686	ppbV	99
15) ethanol	2.359	31	1164487	103.054	ppbV	97
16) dichlorofluoromethane	2.354	67	1112127	18.968	ppbV	99
17) vinyl bromide	2.438	106	541442	24.485	ppbV	99
18) acrolein	2.466	56	214180	19.163	ppbV	97
19) acetone	2.500	43	3360194	123.237	ppbV	99
20) acetonitrile	2.426	41	376760	18.687	ppbV	99
21) trichlorofluoromethane	2.551	101	1653504	18.804	ppbV	99
22) isopropyl alcohol	2.568	45	2003698	66.439	ppbV	100
23) acrylonitrile	2.630	53	490698	18.776	ppbV	99
24) pentane	2.653	43	947697	17.213	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:36 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.653	31	523215	21.290	ppbV	99
26) 1,1-dichloroethene	2.727	61	1163255	18.776	ppbV	99
27) tertiary butyl alcohol	2.736	59	1363514	20.486	ppbV	99
28) methylene chloride	2.760	49	666419	18.272	ppbV	99
29) 3-chloropropene	2.798	41	636136	24.352	ppbV	98
30) carbon disulfide	2.846	76	1642134	24.867	ppbV	98
31) Freon 113	2.846	101	1375964	18.635	ppbV	98
32) trans-1,2-dichloroethene	3.062	61	880913	24.370	ppbV	98
33) 1,1-dichloroethane	3.133	63	1189579	18.449	ppbV	100
34) MTBE	3.160	73	1674091	24.725	ppbV	98
35) vinyl acetate	3.195	43	1224295	26.958	ppbV	99
36) 2-butanone	3.279	43	608256	26.117	ppbV	98
37) cis-1,2-dichloroethene	3.449	61	520972	19.371	ppbV	99
38) Ethyl Acetate	3.553	61	113204M6	20.823	ppbV	
39) chloroform	3.568	83	909569	19.578	ppbV	99
40) Tetrahydrofuran	3.725	42	288493M6	26.703	ppbV	
41) 2,2-dichloropropane	3.576	77	717719	19.804	ppbV	99
42) 1,2-dichloroethane	3.868	62	556237	19.000	ppbV	99
44) hexane	3.546	57	524471	25.792	ppbV	93
45) diisopropyl ether	3.553	87	445339	20.186	ppbV	94
46) tert-butyl ethyl ether	3.771	59	1110203	18.891	ppbV	97
48) 1,1,1-trichloroethane	3.982	97	927816	19.435	ppbV	97
49) 1,1-dichloropropene	4.120	75	747022	19.952	ppbV	97
50) benzene	4.186	78	1250540	19.282	ppbV	98
51) thiophene	4.234	84	1064106	8.006	ppbV	98
52) carbon tetrachloride	4.252	117	981025	19.351	ppbV	99
53) cyclohexane	4.309	56	532249	25.512	ppbV	97
54) tert-amyl methyl ether	4.479	73	1146396	20.180	ppbV	99
55) dibromomethane	4.545	93	564813	19.901	ppbV	97
56) 1,2-dichloropropane	4.563	63	452746	19.354	ppbV	97
57) bromodichloromethane	4.658	83	895060	25.241	ppbV	98
58) 1,4-dioxane	4.686	88	281710	28.236	ppbV	98
59) trichloroethene	4.686	130	652396	19.278	ppbV	99
60) 2,2,4-trimethylpentane	4.724	57	1708703	25.530	ppbV	99
61) methyl methacrylate	4.808	41	448461	19.802	ppbV	98
62) heptane	4.865	43	534742	25.794	ppbV	98
63) cis-1,3-dichloropropene	5.110	75	704806	19.668	ppbV	98
64) 4-methyl-2-pentanone	5.142	43	741140	25.468	ppbV	97
65) trans-1,3-dichloropropene	5.374	75	583239	19.932	ppbV	98
66) 1,1,2-trichloroethane	5.445	97	573084	19.248	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:36 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	1629058	19.390	ppbV	100
70) 2-methylthiophene	5.613	97	1576040	7.319	ppbV	99
71) 1,3-dichloropropane	5.605	76	783251	19.481	ppbV	96
72) 2-hexanone	5.749	43	738541	25.100	ppbV	99
73) 3-methylthiophene	5.701	97	1673162	7.181	ppbV	98
74) dibromochloromethane	5.781	129	999465	26.301	ppbV	99
75) 1,2-dibromoethane	5.900	107	935354	20.094	ppbV	99
76) butyl acetate	6.092	73	204284	20.312	ppbV	97
77) octane	6.132	85	514604	20.051	ppbV	97
78) tetrachloroethene	6.140	166	898320	19.627	ppbV	97
79) 1,1,1,2-tetrachloroethane	6.471	131	759715	20.777	ppbV	97
80) chlorobenzene	6.471	112	1374710	19.526	ppbV	100
81) ethylbenzene	6.673	91	2142578	19.039	ppbV	99
82) 2-ethylthiophene	6.689	97	1980253	7.203	ppbV	99
83) m+p-xylene	6.766	91	3549266	39.604	ppbV	99
84) bromoform	6.766	173	1073610	28.096	ppbV	99
85) styrene	6.940	104	1291547	19.308	ppbV	98
86) 1,1,2,2-tetrachloroethane	6.981	83	1296431	19.215	ppbV	100
87) o-xylene	6.987	91	1693436	19.050	ppbV	97
88) 1,2,3-trichloropropane	7.045	75	922223	19.524	ppbV	97
89) nonane	7.156	43	875648	19.638	ppbV	95
91) isopropylbenzene	7.295	105	2410468	19.648	ppbV	100
92) bromobenzene	7.307	77	1493541	24.518	ppbV	96
93) 2-chlorotoluene	7.523	126	633487	19.562	ppbV	98
94) n-propylbenzene	7.555	120	719720	19.746	ppbV	98
95) 4-chlorotoluene	7.563	126	679699	19.451	ppbV	100
96) 4-ethyl toluene	7.635	105	2288434	25.494	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	1966722	18.655	ppbV	99
98) tert-butylbenzene	7.891	119	2294923	19.585	ppbV	99
99) 1,2,4-trimethylbenzene	7.899	105	2148264	19.530	ppbV	97
100) decane	8.002	57	1181141	19.794	ppbV	98
101) Benzyl Chloride	7.954	91	1519566	28.651	ppbV	100
102) 1,3-dichlorobenzene	7.954	146	1545206	18.988	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	1594411	19.744	ppbV	98
104) sec-butylbenzene	8.042	105	3035835	19.379	ppbV	99
105) 1,2,3-trimethylbenzene	8.122	105	2227710	19.654	ppbV	98
106) p-isopropyltoluene	8.146	119	2940207	19.808	ppbV	98
107) 1,2-dichlorobenzene	8.178	146	1519762	19.131	ppbV	98
108) n-butylbenzene	8.386	91	2560926	19.452	ppbV	100
109) indan	8.226	117	1965429	20.321	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:36 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

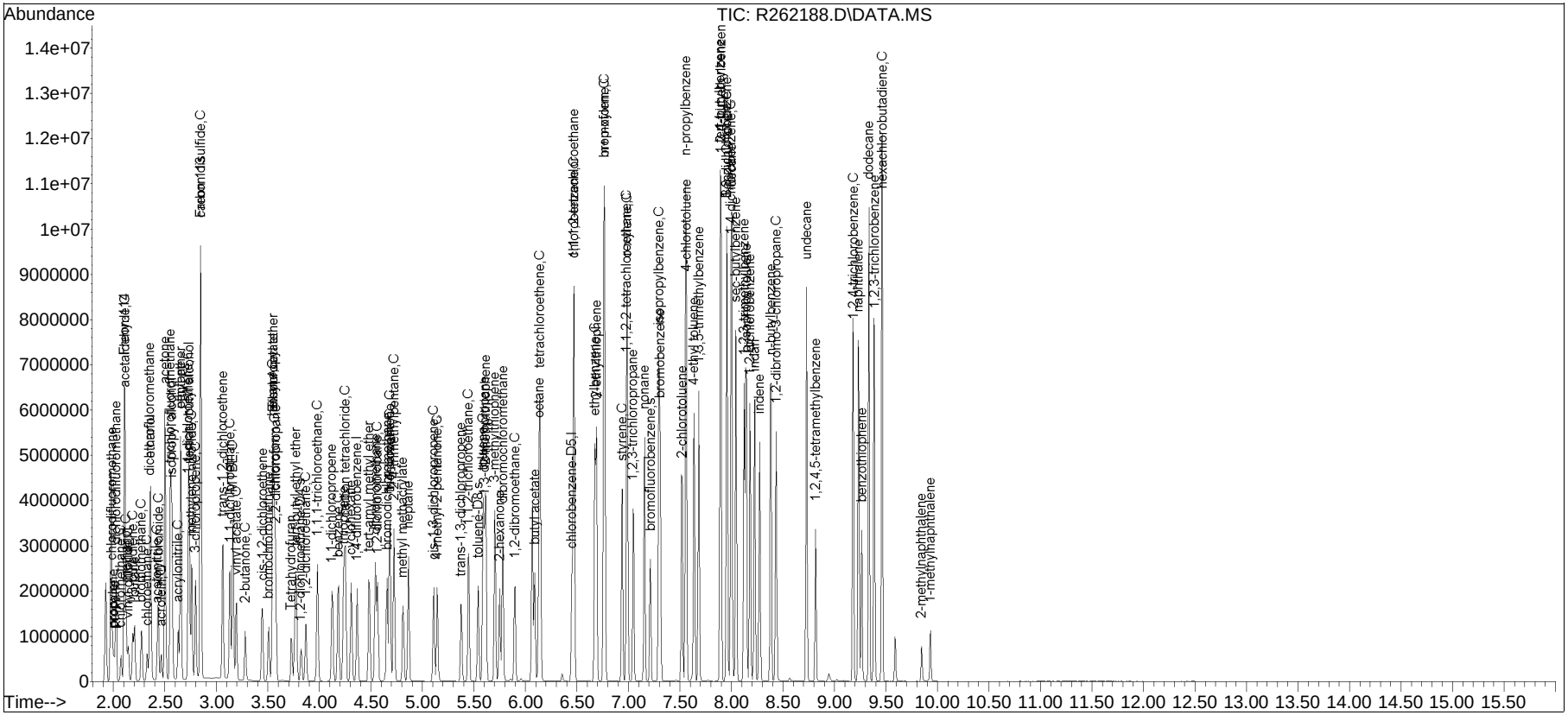
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	1596732	19.965	ppbV	99
111) 1,2-dibromo-3-chloropr...	8.433	75	677797	19.450	ppbV	97
112) undecane	8.729	57	1435817	19.390	ppbV	99
113) 1,2,4,5-tetramethylben...	8.817	119	946260	14.582	ppbV	99
114) dodecane	9.336	57	1688872	17.650	ppbV	99
115) 1,2,4-trichlorobenzene	9.184	180	1470143	19.400	ppbV	95
116) naphthalene	9.230	128	3333925	18.750	ppbV	99
117) 1,2,3-trichlorobenzene	9.388	180	1502193	17.661	ppbV	98
118) benzothiophene	9.265	134	1358164	15.025	ppbV	99
119) hexachlorobutadiene	9.464	225	1299385	19.888	ppbV	96
120) 2-methylnaphthalene	9.844	142	200552	10.614	ppbV	97
121) 1-methylnaphthalene	9.932	142	288362	10.942	ppbV	98

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

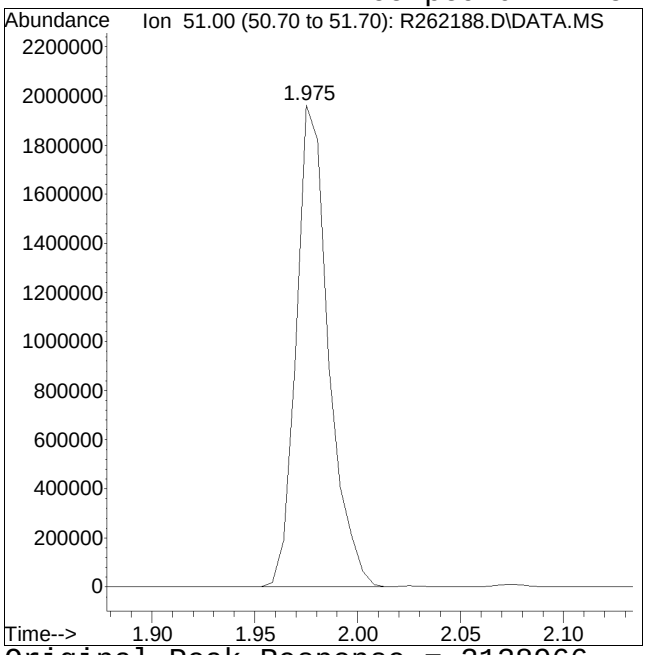
Quant Time: Mar 15 09:49:36 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration



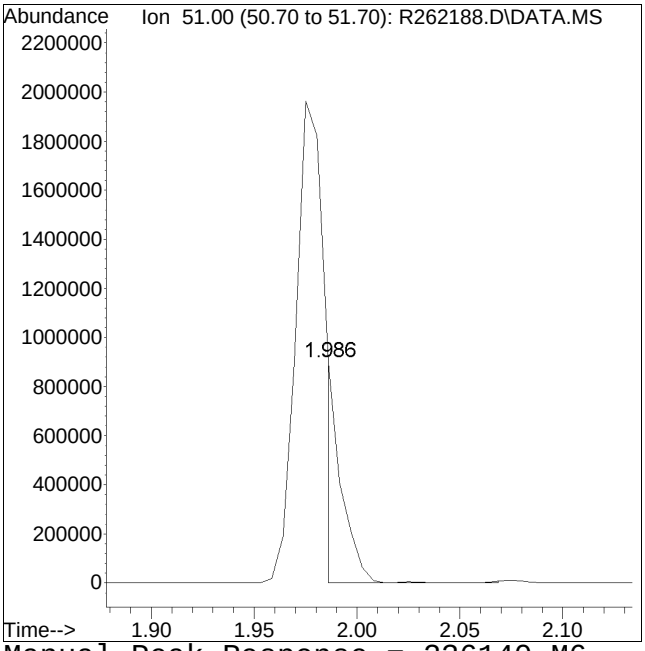
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 2138966



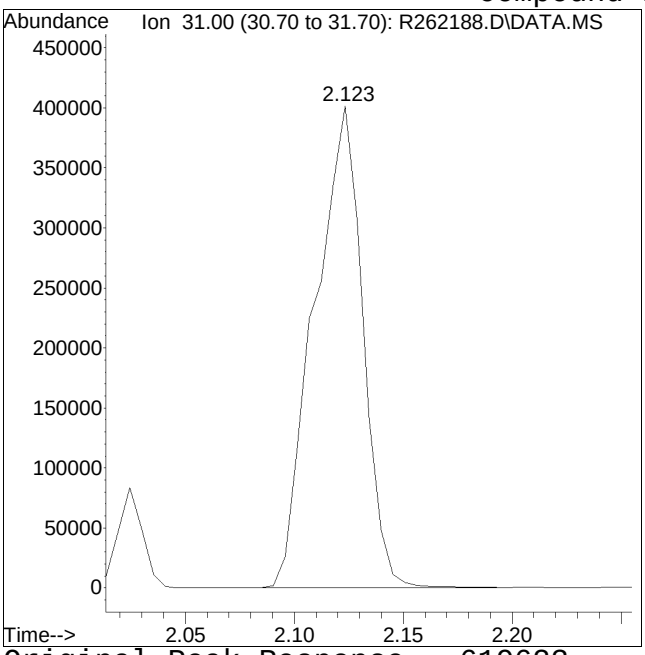
Manual Peak Response = 236140 M6

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

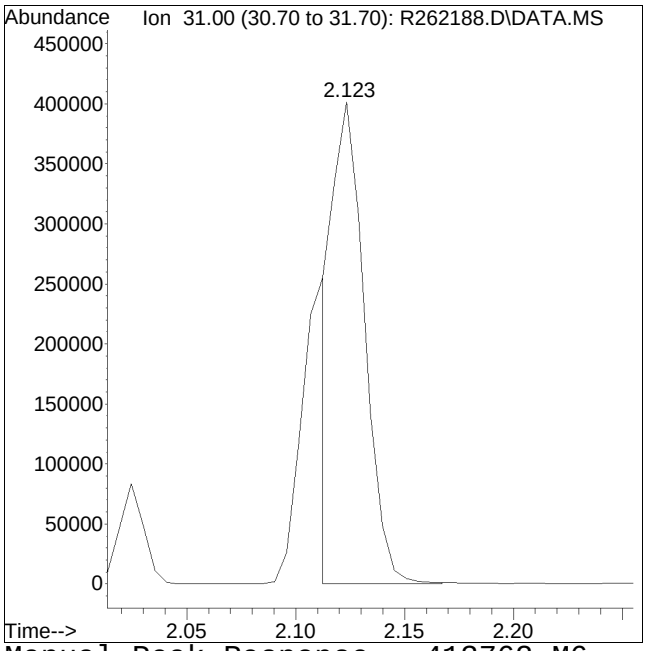
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 619623



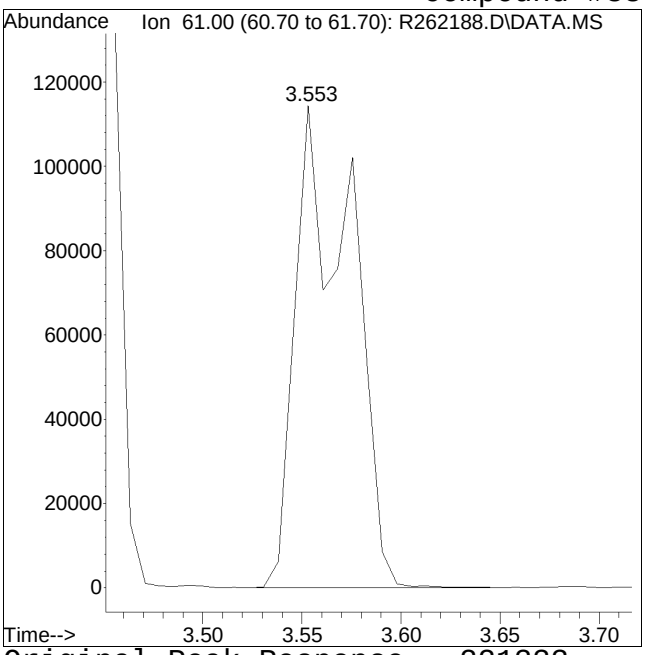
Manual Peak Response = 413762 M6

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

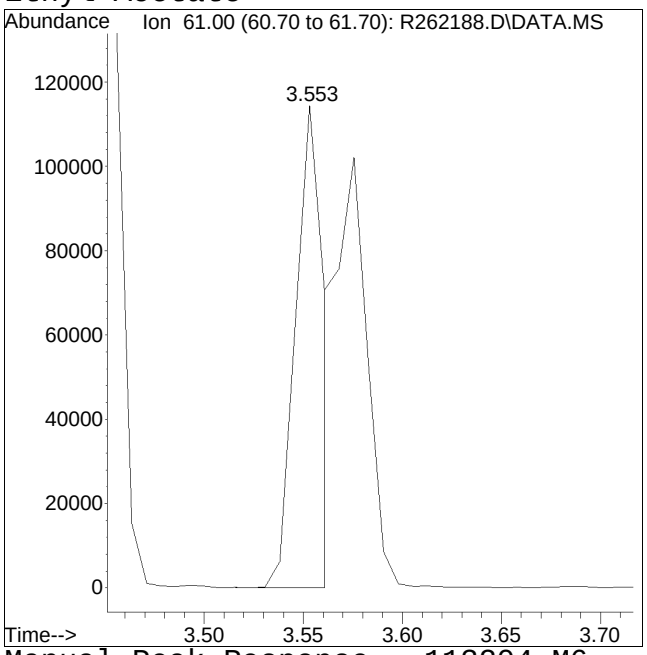
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 221333



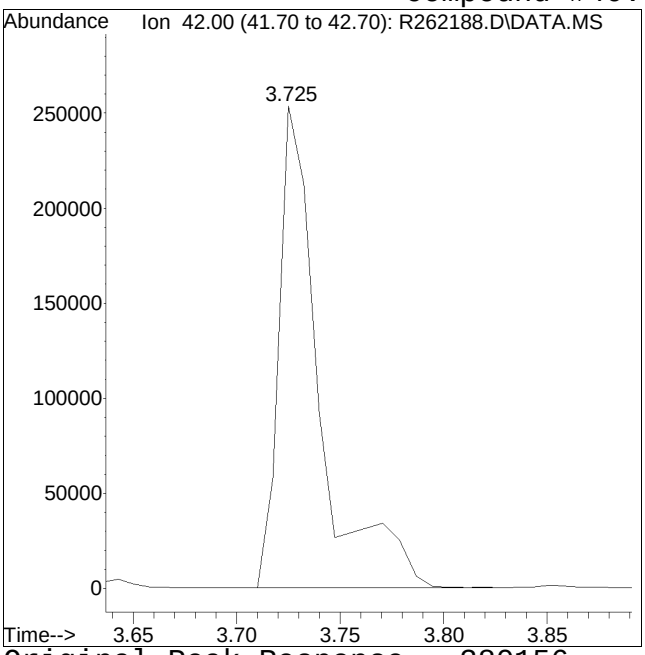
Manual Peak Response = 113204 M6

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

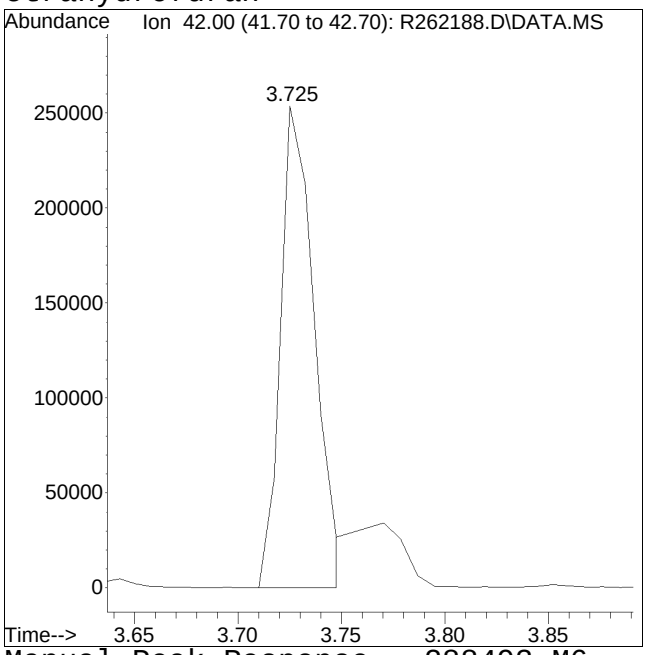
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/15/2025 9:49 am

Compound #40: Tetrahydrofuran



Original Peak Response = 380156



Manual Peak Response = 288493 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	283958	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 110.41%			
43) 1,4-difluorobenzene	4.365	114	1010701	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 111.39%			
67) chlorobenzene-D5	6.449	54	158382	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 110.29%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	300257	9.604	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.04%			
69) toluene-D8	5.541	98	869956	9.735	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.35%			
90) bromofluorobenzene	7.214	95	534983	9.749	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.49%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.986	51	405467M6	32.883	ppbV	
3) propylene	2.002	41	379822	76.013	ppbV	96
4) propane	2.008	29	258075	55.472	ppbV	96
5) dichlorodifluoromethane	2.024	85	2528912	48.710	ppbV	99
6) chloromethane	2.074	50	836625	46.310	ppbV	98
7) Freon-114	2.107	85	3393799	48.676	ppbV	91
8) methanol	2.118	31	1199571M6	254.424	ppbV	
9) vinyl chloride	2.140	62	1071110	46.793	ppbV	100
10) 1,3-butadiene	2.184	54	691179	62.136	ppbV	98
11) butane	2.200	43	1258811	47.480	ppbV	99
12) acetaldehyde	2.107	29	2715811	258.468	ppbV	96
13) bromomethane	2.271	94	1120261	46.948	ppbV	99
14) chloroethane	2.326	64	594732	46.061	ppbV	99
15) ethanol	2.359	31	3100280	262.696	ppbV	97
16) dichlorofluoromethane	2.354	67	2937389	47.967	ppbV	99
17) vinyl bromide	2.432	106	1369999	59.318	ppbV	99
18) acrolein	2.466	56	554647	47.514	ppbV	98
19) acetone	2.500	43	8133041	285.597	ppbV	92
20) acetonitrile	2.426	41	961595	45.665	ppbV	99
21) trichlorofluoromethane	2.551	101	4191881	45.643	ppbV	98
22) isopropyl alcohol	2.568	45	5098386	161.864	ppbV	99
23) acrylonitrile	2.630	53	1268847	46.486	ppbV	98
24) pentane	2.653	43	2706378	47.065	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.653	31	1389206	54.123	ppbV	98
26) 1,1-dichloroethene	2.727	61	2949271	45.580	ppbV	99
27) tertiary butyl alcohol	2.736	59	3504225	50.409	ppbV	99
28) methylene chloride	2.760	49	1695575	44.512	ppbV	100
29) 3-chloropropene	2.798	41	1631978	59.817	ppbV	96
30) carbon disulfide	2.846	76	4183846	60.663	ppbV	96
31) Freon 113	2.846	101	3501289	45.401	ppbV	99
32) trans-1,2-dichloroethene	3.062	61	2232852	59.143	ppbV	98
33) 1,1-dichloroethane	3.133	63	2995091	44.474	ppbV	100
34) MTBE	3.160	73	4269048	60.368	ppbV	99
35) vinyl acetate	3.195	43	3344314	70.507	ppbV	97
36) 2-butanone	3.279	43	1873063	77.004	ppbV	100
37) cis-1,2-dichloroethene	3.448	61	1392238	49.565	ppbV	99
38) Ethyl Acetate	3.553	61	383673M6	67.571	ppbV	
39) chloroform	3.568	83	2411436	49.698	ppbV	99
40) Tetrahydrofuran	3.725	42	789154M6	69.938	ppbV	
41) 2,2-dichloropropane	3.575	77	1977404	52.241	ppbV	98
42) 1,2-dichloroethane	3.868	62	1474408	48.222	ppbV	99
44) hexane	3.546	57	1425565	66.948	ppbV	91
45) diisopropyl ether	3.553	87	1235381	53.473	ppbV	95
46) tert-butyl ethyl ether	3.770	59	3084616	50.123	ppbV	97
48) 1,1,1-trichloroethane	3.982	97	2780586	55.621	ppbV	98
49) 1,1-dichloropropene	4.130	75	1943550	49.572	ppbV	98
50) benzene	4.186	78	3300427	48.596	ppbV	98
51) thiophene	4.233	84	2792566	20.063	ppbV	99
52) carbon tetrachloride	4.252	117	2655820	50.028	ppbV	99
53) cyclohexane	4.309	56	1404587	64.293	ppbV	97
54) tert-amyl methyl ether	4.488	73	3049298	51.258	ppbV	100
55) dibromomethane	4.544	93	1478593	49.751	ppbV	96
56) 1,2-dichloropropane	4.563	63	1173198	47.894	ppbV	97
57) bromodichloromethane	4.658	83	2397465	64.564	ppbV	97
58) 1,4-dioxane	4.686	88	764702	73.194	ppbV	96
59) trichloroethene	4.686	130	1755709	49.544	ppbV	100
60) 2,2,4-trimethylpentane	4.724	57	4454237	63.554	ppbV	99
61) methyl methacrylate	4.808	41	1201270	50.653	ppbV	97
62) heptane	4.865	43	1415154	65.187	ppbV	97
63) cis-1,3-dichloropropene	5.110	75	1902056	50.687	ppbV	98
64) 4-methyl-2-pentanone	5.142	43	2016012	66.157	ppbV	98
65) trans-1,3-dichloropropene	5.373	75	1607836	52.471	ppbV	97
66) 1,1,2-trichloroethane	5.453	97	1491051	47.823	ppbV	95

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	4217362	47.740	ppbV		98
70) 2-methylthiophene	5.621	97	4167221	18.404	ppbV		100
71) 1,3-dichloropropane	5.605	76	2073181	49.039	ppbV		98
72) 2-hexanone	5.749	43	1968766	63.634	ppbV		97
73) 3-methylthiophene	5.709	97	4432228	18.092	ppbV		98
74) dibromochloromethane	5.780	129	2773645	69.415	ppbV		99
75) 1,2-dibromoethane	5.900	107	2485089	50.772	ppbV		98
76) butyl acetate	6.092	73	552149	52.212	ppbV		99
77) octane	6.132	85	1393107	51.623	ppbV		94
78) tetrachloroethene	6.148	166	2483492	51.605	ppbV		92
79) 1,1,1,2-tetrachloroethane	6.471	131	2136769	55.577	ppbV		99
80) chlorobenzene	6.471	112	3751137	50.672	ppbV		98
81) ethylbenzene	6.673	91	5652801	47.772	ppbV		97
82) 2-ethylthiophene	6.689	97	5240260	18.128	ppbV		98
83) m+p-xylene	6.766	91	9538544	101.224	ppbV		96
84) bromoform	6.766	173	3279396	81.620	ppbV		98
85) styrene	6.940	104	3514025	49.962	ppbV		97
86) 1,1,2,2-tetrachloroethane	6.987	83	3518520	49.597	ppbV		97
87) o-xylene	6.992	91	4571463	48.907	ppbV		97
88) 1,2,3-trichloropropane	7.051	75	2462303	49.576	ppbV		98
89) nonane	7.155	43	2349179	50.105	ppbV		98
91) isopropylbenzene	7.295	105	6297929	48.822	ppbV		95
92) bromobenzene	7.307	77	2582581M6	40.319	ppbV		
93) 2-chlorotoluene	7.523	126	1712655	50.297	ppbV		98
94) n-propylbenzene	7.555	120	2053289	53.575	ppbV	#	35
95) 4-chlorotoluene	7.563	126	1937021	52.719	ppbV	#	48
96) 4-ethyl toluene	7.635	105	6046898	64.065	ppbV		98
97) 1,3,5-trimethylbenzene	7.683	105	5249204	47.352	ppbV		96
98) tert-butylbenzene	7.898	119	6439570	52.264	ppbV		97
99) 1,2,4-trimethylbenzene	7.898	105	5969298	51.612	ppbV	#	86
100) decane	8.002	57	3351513	53.415	ppbV		98
101) Benzyl Chloride	7.954	91	4708473	84.432	ppbV		97
102) 1,3-dichlorobenzene	7.962	146	4406204	51.495	ppbV		96
103) 1,4-dichlorobenzene	7.994	146	4622613	54.440	ppbV		97
104) sec-butylbenzene	8.042	105	7916018	48.057	ppbV		95
105) 1,2,3-trimethylbenzene	8.122	105	6008846	50.417	ppbV		98
106) p-isopropyltoluene	8.146	119	7670679	49.147	ppbV		92
107) 1,2-dichlorobenzene	8.186	146	4170937	49.933	ppbV		97
108) n-butylbenzene	8.385	91	6602380	47.695	ppbV		94
109) indan	8.226	117	5304309	52.158	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

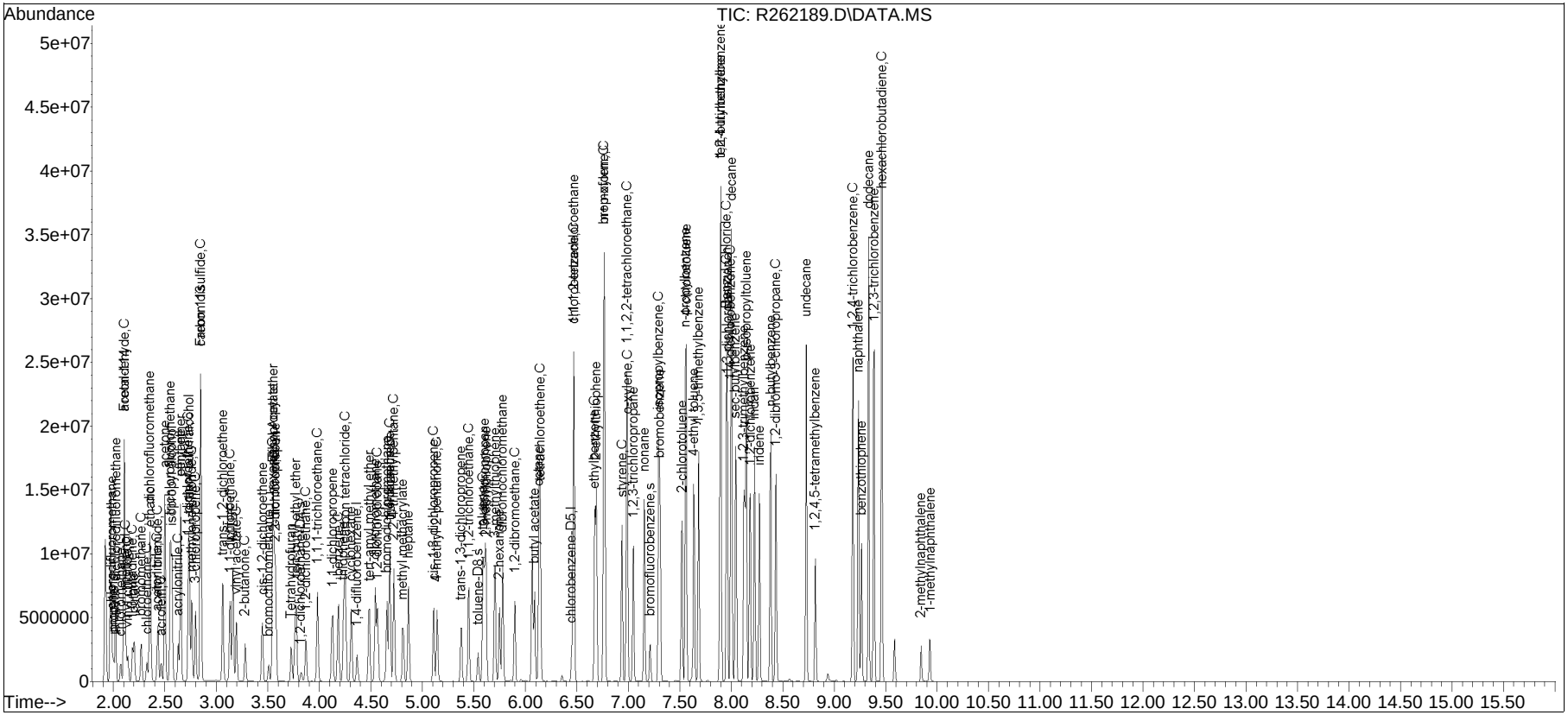
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.274	115	4308252	51.232	ppbV		98
111) 1,2-dibromo-3-chloropr...	8.433	75	1959289	53.471	ppbV		97
112) undecane	8.729	57	4030714	51.768	ppbV		97
113) 1,2,4,5-tetramethylben...	8.816	119	2663299	39.032	ppbV		100
114) dodecane	9.335	57	4997081	49.666	ppbV		97
115) 1,2,4-trichlorobenzene	9.183	180	4520894	56.736	ppbV		98
116) naphthalene	9.236	128	8269732	44.232	ppbV	#	87
117) 1,2,3-trichlorobenzene	9.388	180	4582921	51.242	ppbV		98
118) benzothiophene	9.265	134	4098652	43.122	ppbV		99
119) hexachlorobutadiene	9.464	225	4245014	61.792	ppbV		97
120) 2-methylnaphthalene	9.844	142	678856	34.170	ppbV		98
121) 1-methylnaphthalene	9.932	142	925476	33.398	ppbV		98

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

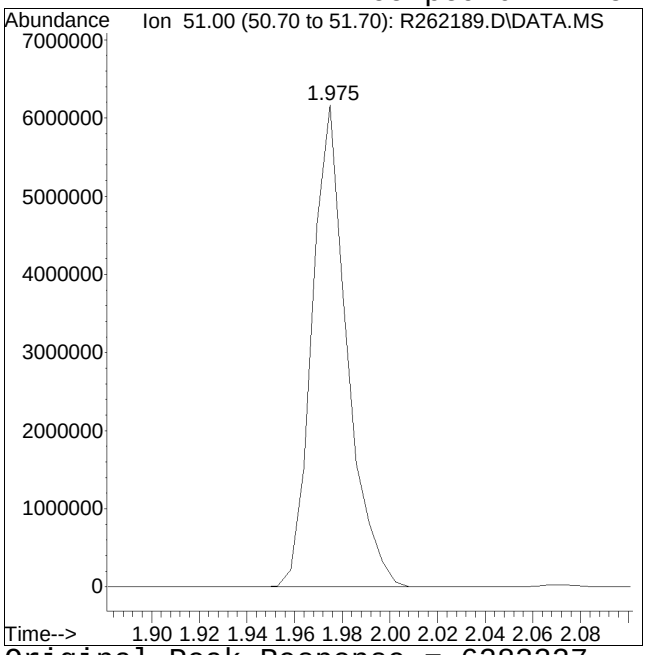
Quant Time: Mar 15 09:49:45 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration



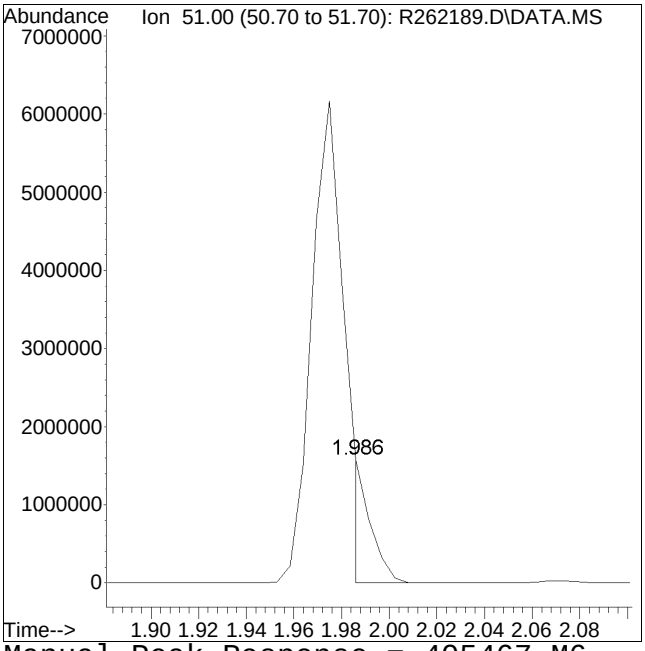
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 6283227



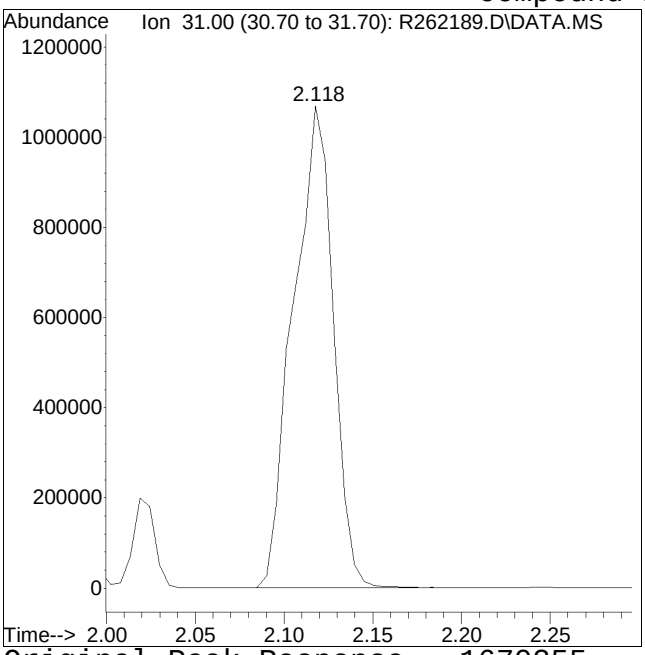
Manual Peak Response = 405467 M6

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

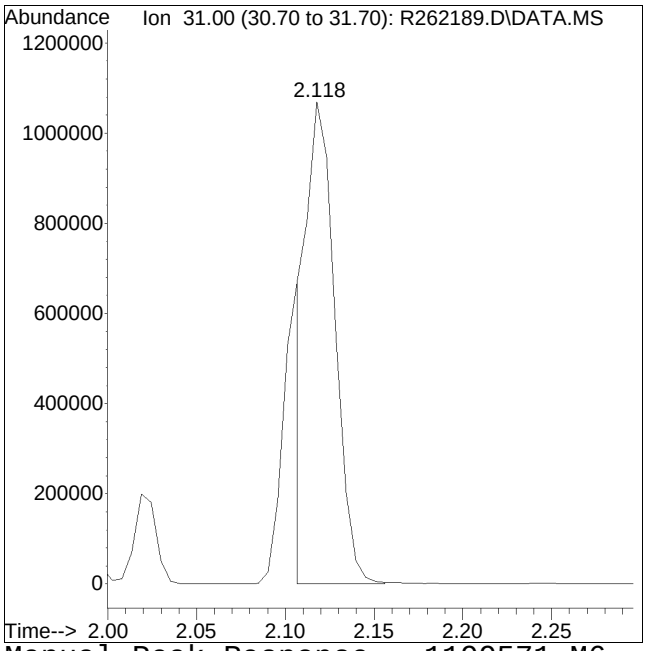
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 1670255



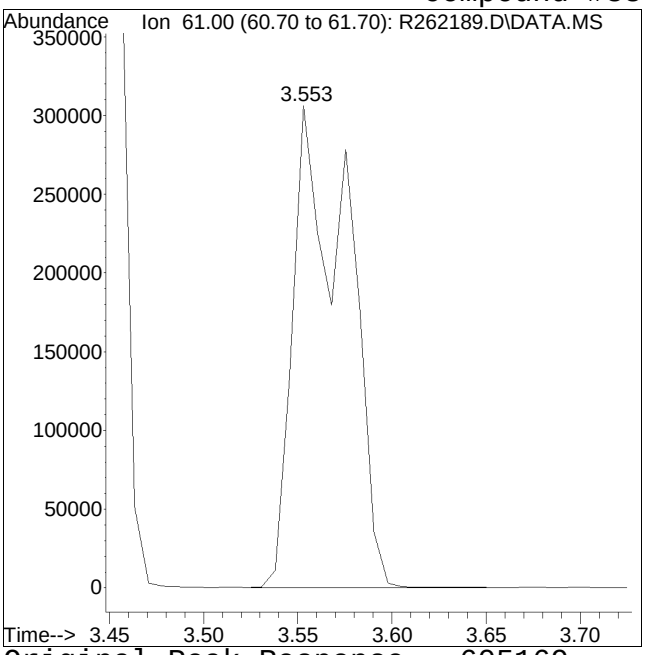
Manual Peak Response = 1199571 M6

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

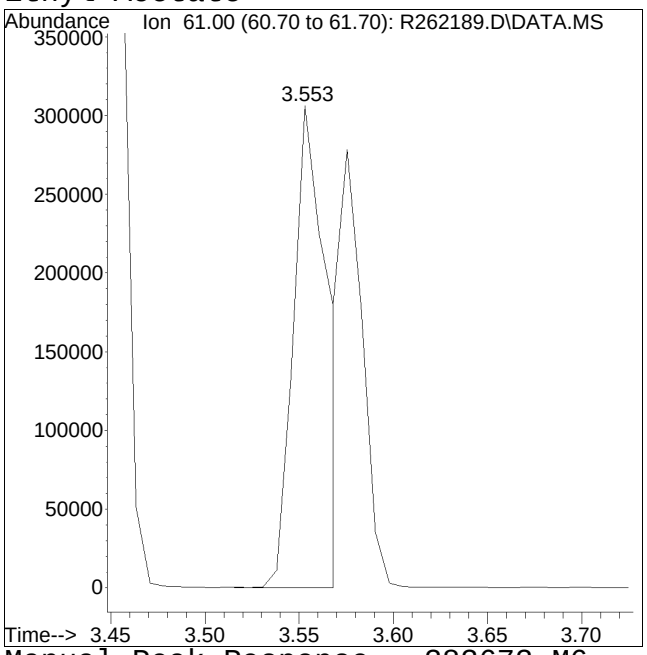
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 605169



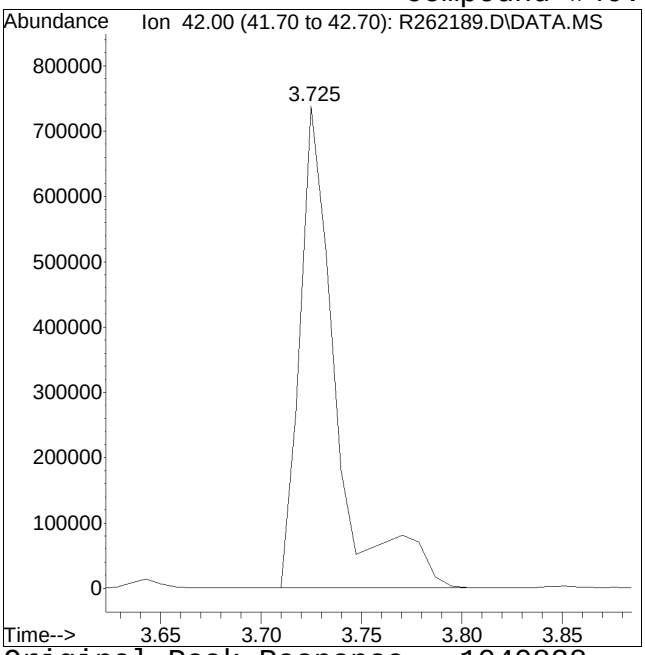
Manual Peak Response = 383673 M6

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

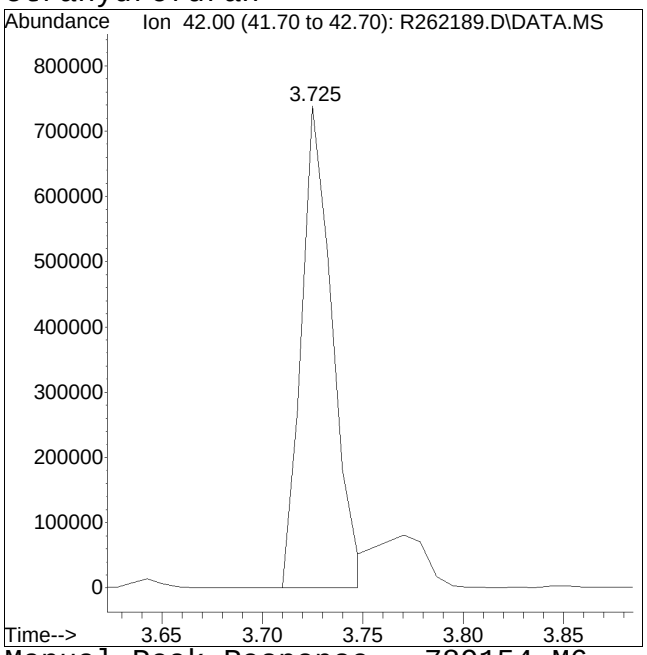
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/15/2025 9:49 am

Compound #40: Tetrahydrofuran



Original Peak Response = 1040828



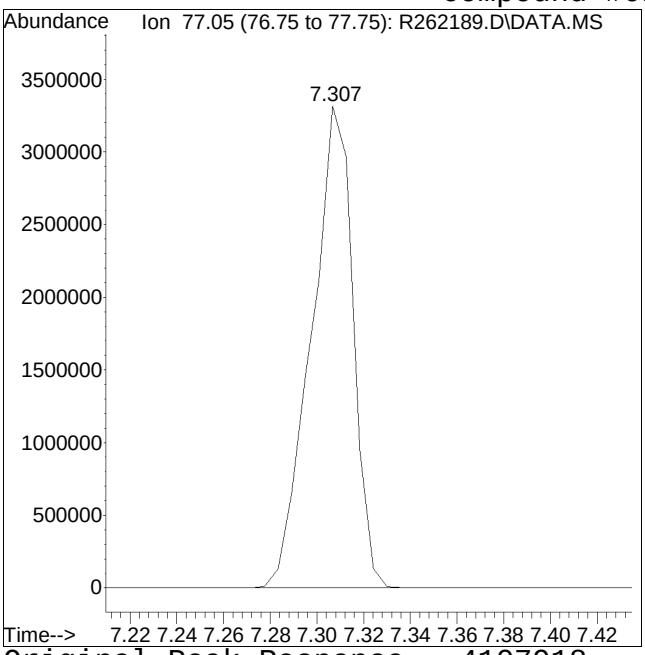
Manual Peak Response = 789154 M6

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

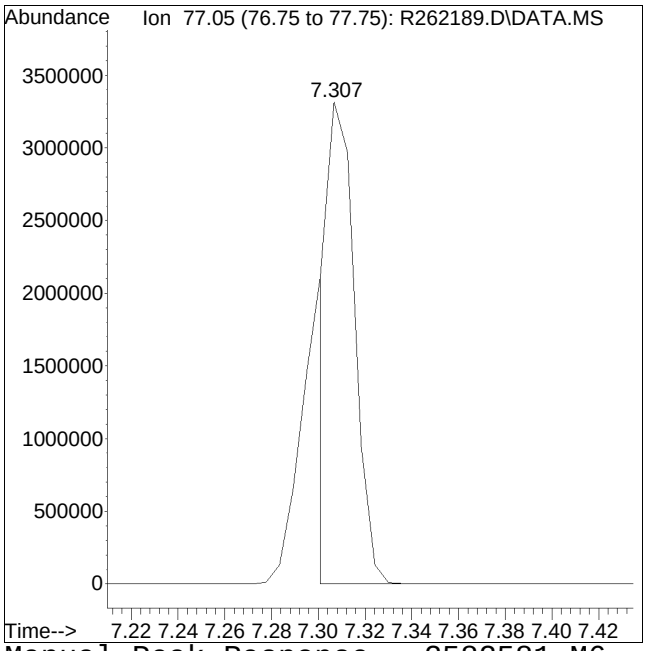
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/15/2025 9:49 am

Compound #92: bromobenzene



Original Peak Response = 4107918



Manual Peak Response = 2582581 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262190.D
Acq On : 15 Mar 2025 02:06 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD100
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:54 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.508	49	290375	10.000	ppbV		0.00
Standard Area = 257186			Recovery = 112.90%				
43) 1,4-difluorobenzene	4.365	114	1032447	10.000	ppbV		0.00
Standard Area = 907371			Recovery = 113.78%				
67) chlorobenzene-D5	6.455	54	169013	10.000	ppbV	#	0.00
Standard Area = 143611			Recovery = 117.69%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	3.819	65	353016	11.054	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.54%				
69) toluene-D8	5.541	98	913553	9.580	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.80%				
90) bromofluorobenzene	7.214	95	572423	9.776	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.76%				
Target Compounds							Qvalue
2) chlorodifluoromethane	1.986	51	1310338M6	103.919	ppbV		
3) propylene	2.002	41	879251	172.074	ppbV		96
4) propane	2.008	29	591317	124.292	ppbV	#	81
5) dichlorodifluoromethane	2.024	85	5443903	102.539	ppbV		95
6) chloromethane	2.074	50	1704259	92.252	ppbV		97
7) Freon-114	2.107	85	6996583	98.132	ppbV		90
8) methanol	2.123	31	2297515M6	476.525	ppbV		
9) vinyl chloride	2.145	62	2205435	94.218	ppbV		98
10) 1,3-butadiene	2.189	54	1416904	124.563	ppbV		99
11) butane	2.206	43	2625316	96.834	ppbV		100
12) acetaldehyde	2.112	29	5836433	543.188	ppbV		94
13) bromomethane	2.272	94	2305144	94.469	ppbV		99
14) chloroethane	2.326	64	1225909	92.847	ppbV		100
15) ethanol	2.359	31	6883589	570.378	ppbV		100
16) dichlorofluoromethane	2.354	67	6091023	97.268	ppbV		97
17) vinyl bromide	2.432	106	2953444	125.051	ppbV		98
18) acrolein	2.466	56	1189874	99.679	ppbV		99
19) acetone	2.494	43	11049580	379.439	ppbV	#	66
20) acetonitrile	2.426	41	2105483	97.777	ppbV		99
21) trichlorofluoromethane	2.551	101	7966749	84.828	ppbV		88
22) isopropyl alcohol	2.568	45	9058318	281.229	ppbV	#	93
23) acrylonitrile	2.630	53	2572206	92.154	ppbV		98
24) pentane	2.653	43	5409774	91.999	ppbV		98

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262190.D
Acq On : 15 Mar 2025 02:06 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD100
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:54 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.653	31	2801795	106.744	ppbV	93
26) 1,1-dichloroethene	2.727	61	5804440	87.723	ppbV	96
27) tertiary butyl alcohol	2.736	59	6789383	95.509	ppbV	99
28) methylene chloride	2.760	49	3345666	85.889	ppbV	96
29) 3-chloropropene	2.794	41	3269676	117.195	ppbV	97
30) carbon disulfide	2.846	76	8451140	119.828	ppbV	96
31) Freon 113	2.846	101	6615436	83.887	ppbV	94
32) trans-1,2-dichloroethene	3.058	61	4403968	114.073	ppbV	98
33) 1,1-dichloroethane	3.129	63	5827558	84.621	ppbV	98
34) MTBE	3.160	73	8225740	113.748	ppbV	96
35) vinyl acetate	3.195	43	6434181	132.652	ppbV	95
36) 2-butanone	3.279	43	3777630	151.871	ppbV	98
37) cis-1,2-dichloroethene	3.441	61	2862608	99.658	ppbV	98
38) Ethyl Acetate	3.553	61	877239M6	151.083	ppbV	
39) chloroform	3.568	83	5111430	103.016	ppbV	98
40) Tetrahydrofuran	3.725	42	2126956	184.333	ppbV	97
41) 2,2-dichloropropane	3.575	77	4209003	108.740	ppbV	99
42) 1,2-dichloroethane	3.868	62	3004865	96.105	ppbV	99
44) hexane	3.546	57	3089538	142.037	ppbV	91
45) diisopropyl ether	3.553	87	2758810	116.899	ppbV	87
46) tert-butyl ethyl ether	3.770	59	6032300	95.956	ppbV	98
48) 1,1,1-trichloroethane	3.982	97	5816647	113.901	ppbV	99
49) 1,1-dichloropropene	4.120	75	4067205	101.553	ppbV	96
50) benzene	4.186	78	6637772	95.676	ppbV	97
51) thiophene	4.243	84	5873562	41.310	ppbV	89
52) carbon tetrachloride	4.252	117	5599483	103.256	ppbV	100
53) cyclohexane	4.309	56	2903357	130.098	ppbV	96
54) tert-amyl methyl ether	4.488	73	6327635	104.125	ppbV	97
55) dibromomethane	4.545	93	3098126	102.049	ppbV	96
56) 1,2-dichloropropane	4.563	63	2414023	96.473	ppbV	98
57) bromodichloromethane	4.658	83	4955850	130.651	ppbV	99
58) 1,4-dioxane	4.686	88	1698786	159.175	ppbV	95
59) trichloroethene	4.686	130	3855190	106.498	ppbV	99
60) 2,2,4-trimethylpentane	4.724	57	8802989	122.958	ppbV	93
61) methyl methacrylate	4.818	41	2533192	104.565	ppbV	96
62) heptane	4.865	43	2890785	130.356	ppbV	95
63) cis-1,3-dichloropropene	5.110	75	3928508	102.484	ppbV	96
64) 4-methyl-2-pentanone	5.142	43	4122185	132.423	ppbV	96
65) trans-1,3-dichloropropene	5.381	75	3339747	106.696	ppbV	99
66) 1,1,2-trichloroethane	5.453	97	3180978	99.877	ppbV	95

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262190.D
Acq On : 15 Mar 2025 02:06 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD100
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:54 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	8442834	89.560	ppbV		93
70) 2-methylthiophene	5.621	97	8446878	34.958	ppbV		94
71) 1,3-dichloropropane	5.605	76	4418533	97.941	ppbV		95
72) 2-hexanone	5.749	43	4166972	126.212	ppbV		98
73) 3-methylthiophene	5.709	97	8789875	33.623	ppbV		91
74) dibromochloromethane	5.781	129	5818933	136.468	ppbV		97
75) 1,2-dibromoethane	5.900	107	5079947	97.258	ppbV		100
76) butyl acetate	6.092	73	1195204	105.911	ppbV		94
77) octane	6.132	85	3208036	111.400	ppbV		97
78) tetrachloroethene	6.148	166	5527745	107.637	ppbV		97
79) 1,1,1,2-tetrachloroethane	6.471	131	4886142	119.094	ppbV		99
80) chlorobenzene	6.476	112	8059595	102.024	ppbV		92
81) ethylbenzene	6.678	91	10455621	82.803	ppbV	#	70
82) 2-ethylthiophene	6.689	97	9353283	30.321	ppbV	#	89
83) m+p-xylene	6.760	91	14495787	144.155	ppbV		90
84) bromoform	6.771	173	7388176	172.316	ppbV		93
85) styrene	6.940	104	7223494	96.242	ppbV		91
86) 1,1,2,2-tetrachloroethane	6.987	83	7607917	100.495	ppbV		91
87) o-xylene	6.992	91	9337649	93.614	ppbV	#	78
88) 1,2,3-trichloropropane	7.051	75	5208659	98.275	ppbV		96
89) nonane	7.161	43	5130494	102.544	ppbV		95
91) isopropylbenzene	7.295	105	9889623	71.842	ppbV	#	61
92) bromobenzene	7.313	77	6221843M6	91.026	ppbV		
93) 2-chlorotoluene	7.523	126	3838076	105.626	ppbV	#	59
94) n-propylbenzene	7.563	120	4781263	116.906	ppbV	#	1
95) 4-chlorotoluene	7.563	126	4403873	112.319	ppbV	#	1
96) 4-ethyl toluene	7.635	105	9938173	98.670	ppbV	#	90
97) 1,3,5-trimethylbenzene	7.683	105	9604416	81.189	ppbV	#	71
98) tert-butylbenzene	7.899	119	11262762	85.660	ppbV	#	57
99) 1,2,4-trimethylbenzene	7.899	105	10066514	81.562	ppbV	#	40
100) decane	8.010	57	7561152	112.927	ppbV	#	99
101) Benzyl Chloride	7.962	91	9124687	153.331	ppbV	#	58
102) 1,3-dichlorobenzene	7.962	146	8478033	92.850	ppbV	#	68
103) 1,4-dichlorobenzene	8.002	146	8504987	93.862	ppbV	#	64
104) sec-butylbenzene	8.042	105	10459664	59.505	ppbV	#	76
105) 1,2,3-trimethylbenzene	8.130	105	10706539	84.182	ppbV	#	48
106) p-isopropyltoluene	8.146	119	11670596	70.072	ppbV	#	39
107) 1,2-dichlorobenzene	8.186	146	8228150	92.309	ppbV	#	77
108) n-butylbenzene	8.385	91	10013910	67.790	ppbV	#	27
109) indan	8.226	117	9496637	87.508	ppbV	#	85

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262190.D
Acq On : 15 Mar 2025 02:06 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD100
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 15 09:49:54 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default - All compounds listed

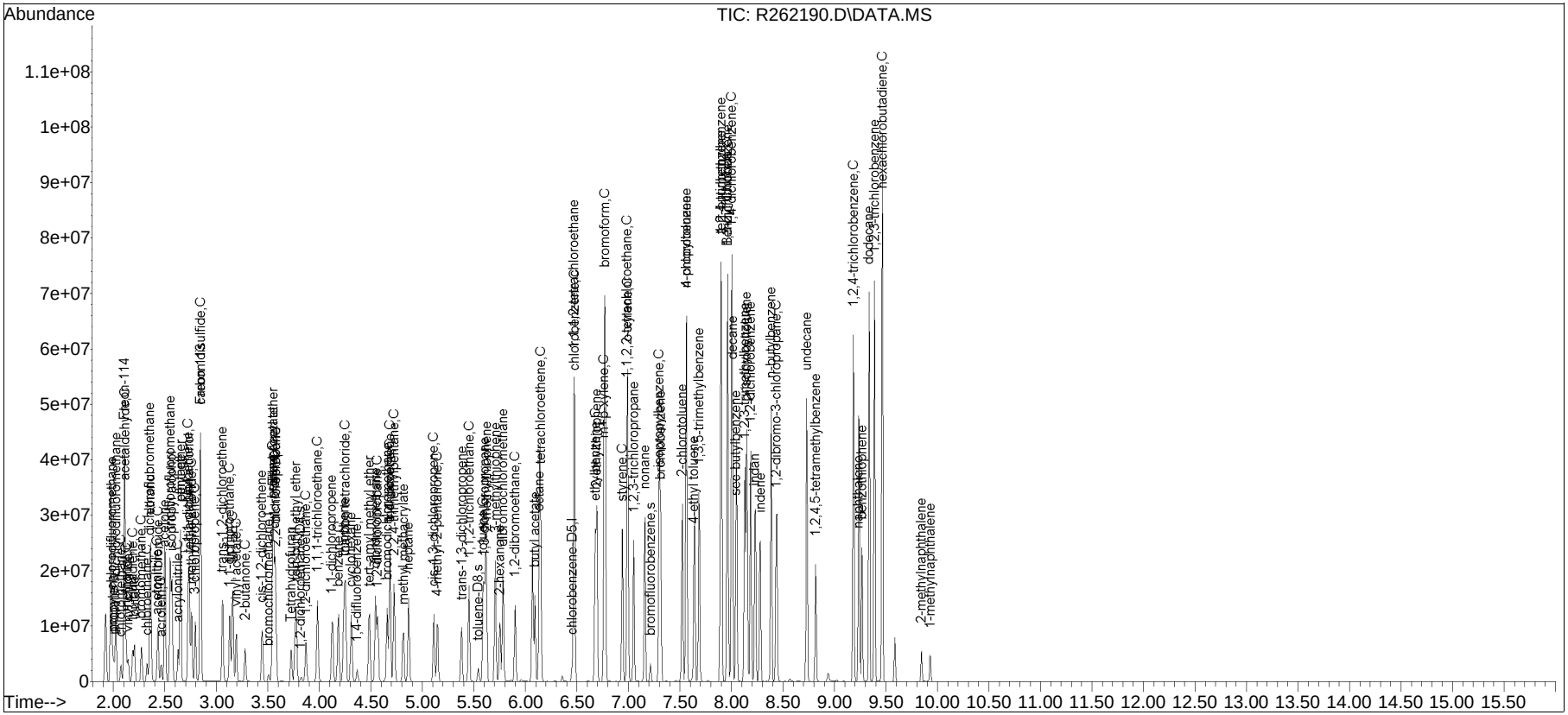
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.282	115	8897458	99.150	ppbV		97
111) 1,2-dibromo-3-chloropr...	8.433	75	4757438	121.669	ppbV		90
112) undecane	8.729	57	8007834	96.378	ppbV	#	78
113) 1,2,4,5-tetramethylben...	8.817	119	6008761	82.522	ppbV		96
114) dodecane	9.335	57	8403331	78.268	ppbV	#	71
115) 1,2,4-trichlorobenzene	9.183	180	9152153	107.633	ppbV	#	65
116) naphthalene	9.230	128	10918886	54.728	ppbV	#	86
117) 1,2,3-trichlorobenzene	9.388	180	8994574	94.243	ppbV	#	44
118) benzothiophene	9.265	134	8159330	80.445	ppbV	#	84
119) hexachlorobutadiene	9.464	225	8170014	111.445	ppbV	#	67
120) 2-methylnaphthalene	9.844	142	1388296	65.483	ppbV		98
121) 1-methylnaphthalene	9.932	142	1340045	45.316	ppbV		99

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

Sub List : Default - All compounds listed3\0314T_ICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262190.D
Acq On : 15 Mar 2025 02:06 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD100
Misc : WG2041764
ALS Vial : 8 Sample Multiplier: 1

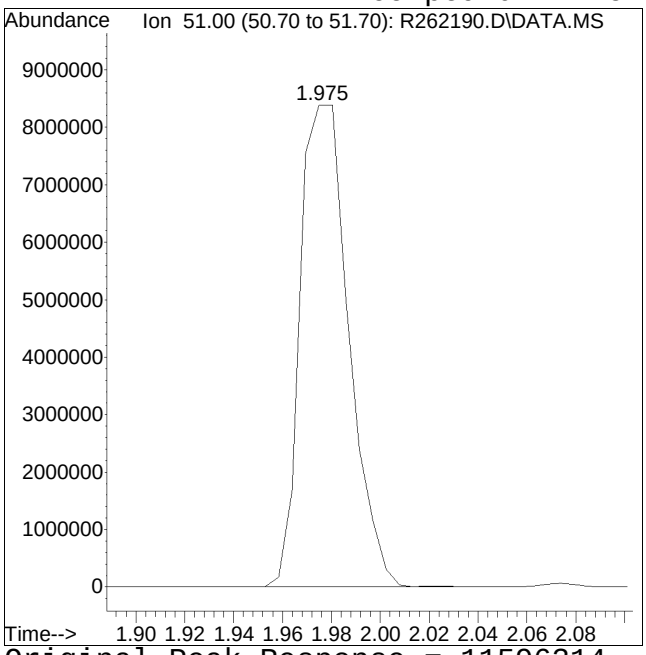
Quant Time: Mar 15 09:49:54 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 15 09:48:40 2025
Response via : Initial Calibration



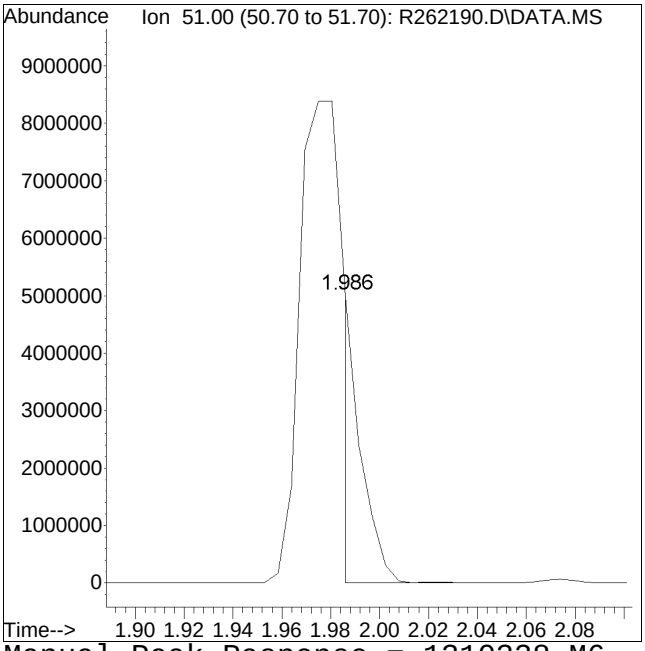
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262190.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 2:06 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 3/15/2025 9:49 am

Compound #2: chlorodifluoromethane



Original Peak Response = 11596314



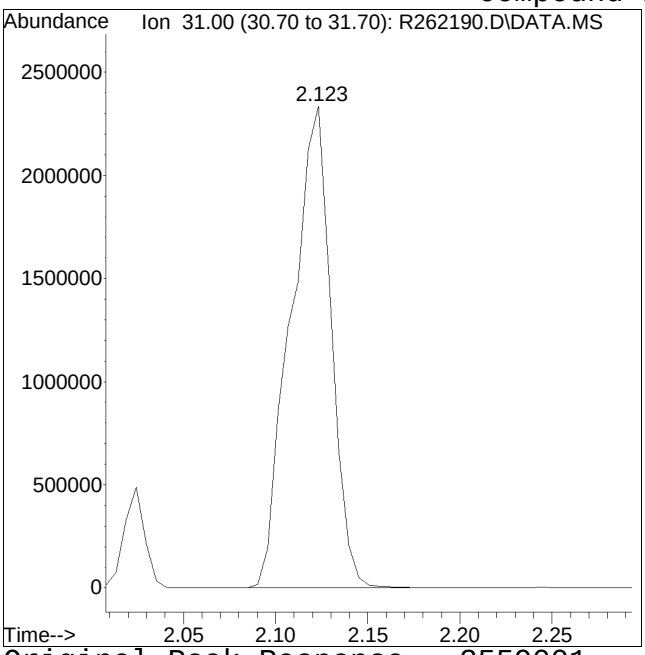
Manual Peak Response = 1310338 M6

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

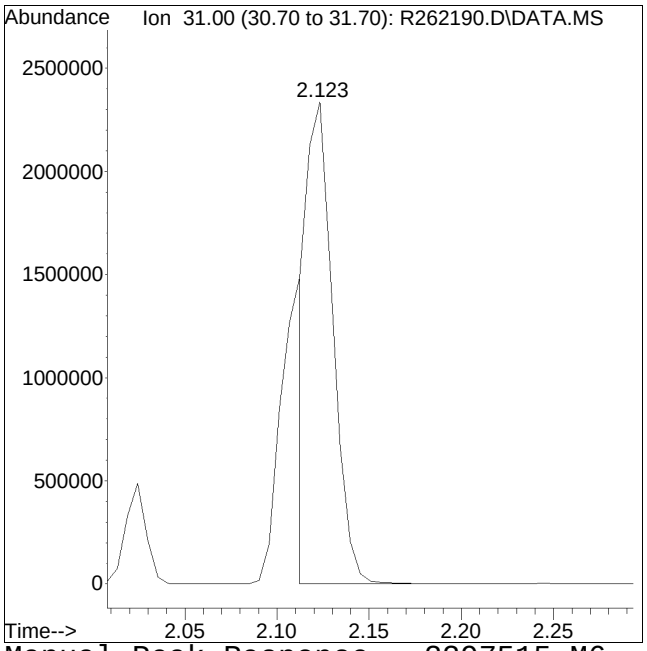
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262190.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 2:06 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 3/15/2025 9:49 am

Compound #8: methanol



Original Peak Response = 3559001



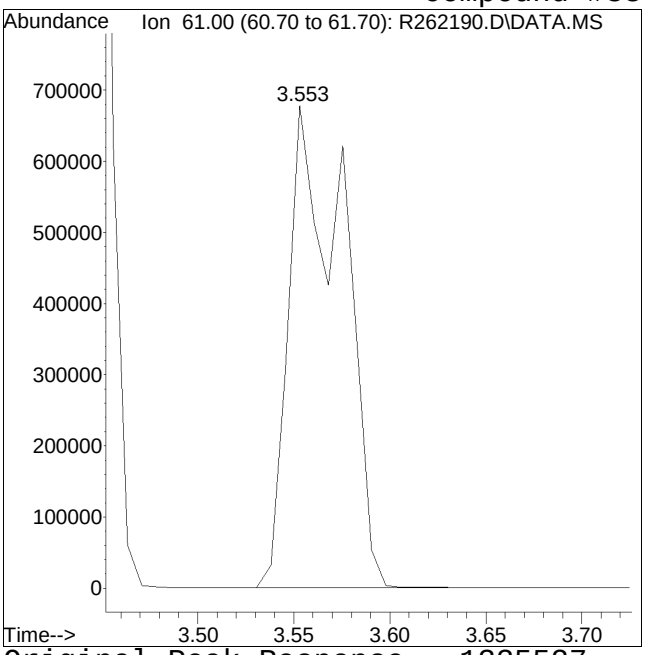
Manual Peak Response = 2297515 M6

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

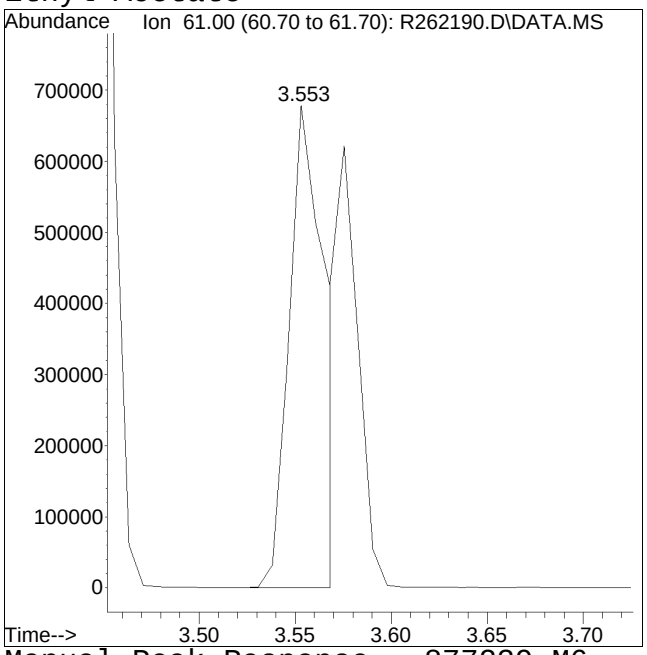
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262190.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 2:06 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 3/15/2025 9:49 am

Compound #38: Ethyl Acetate



Original Peak Response = 1335527



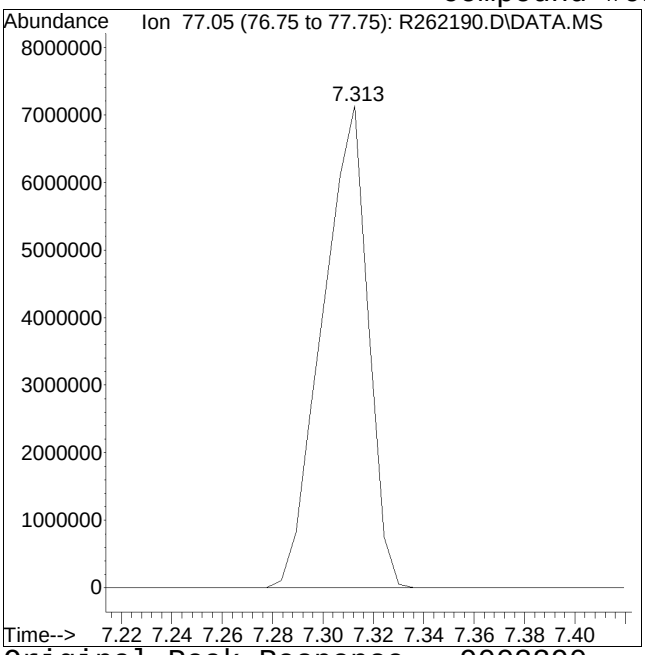
Manual Peak Response = 877239 M6

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

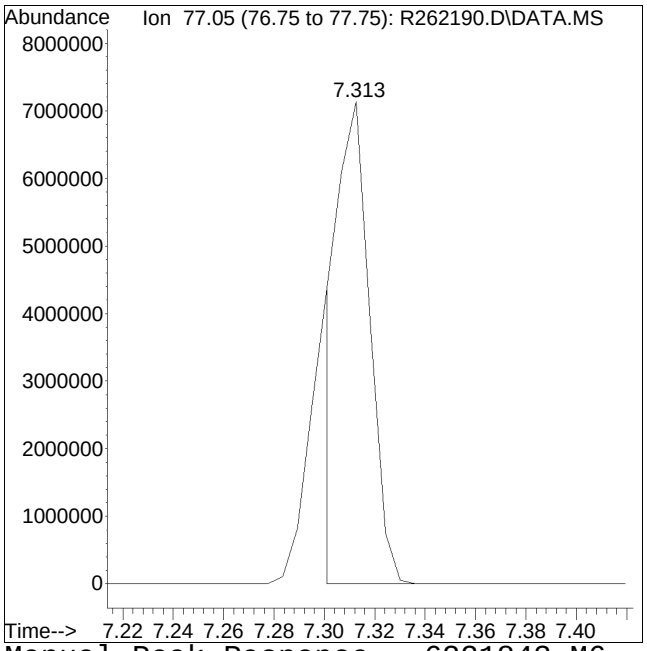
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262190.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 2:06 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 3/15/2025 9:49 am

Compound #92: bromobenzene



Original Peak Response = 9003390



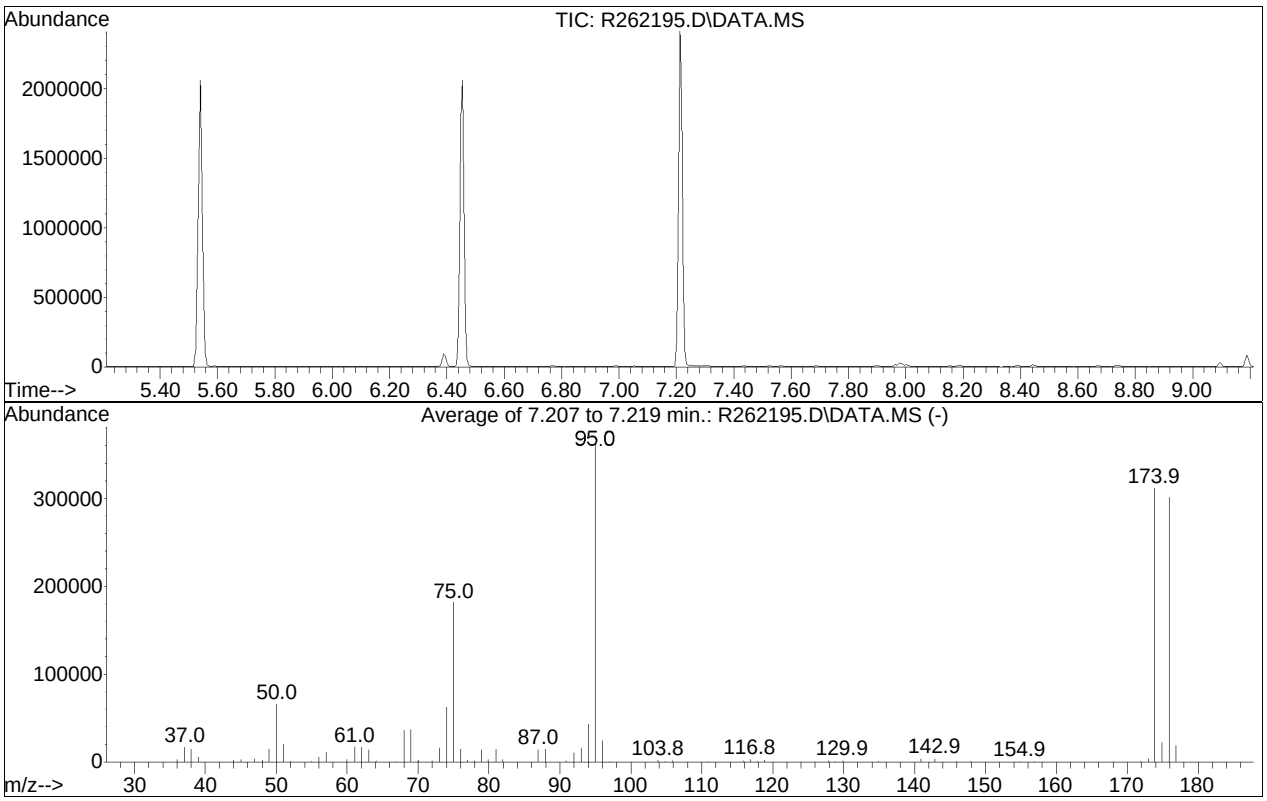
Manual Peak Response = 6221843 M6

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

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262195.D
Acq On : 17 Mar 2025 09:58 am
Operator : AIRLAB26:APR
Sample : WG2041764-2
Misc : WG2041764
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025



AutoFind: Scans 806, 807, 808; Background Corrected with Scan 801

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	66120	PASS
75	95	30	66	50.0	181648	PASS
95	95	100	100	100.0	363413	PASS
96	95	5	9	6.8	24646	PASS
173	174	0.00	2	1.0	3266	PASS
174	95	50	120	85.8	311979	PASS
175	174	4	9	7.2	22549	PASS
176	174	93	101	96.6	301525	PASS
177	176	5	9	6.3	18879	PASS

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	99	0.00
2		chlorodifluoromethane	0.333	0.374	-12.3	86	0.00
3		propylene	0.227	0.220	3.1	124	0.00
4		propane	0.166	0.166	0.0	101	0.00
5		dichlorodifluoromethane	1.773	1.862	-5.0	101	0.00
6	C	chloromethane	0.617	0.618	-0.2	97	0.00
7		Freon-114	2.369	2.643	-11.6	107	0.00
8	C	methanol	0.159	0.205	-28.9	123	0.00
9	C	vinyl chloride	0.797	0.822	-3.1	101	0.00
10	C	1,3-butadiene	0.473	0.553	-16.9	140#	0.00
11		butane	0.951	0.911	4.2	97	0.00
13	C	bromomethane	0.838	0.908	-8.4	107	0.00
14	C	chloroethane	0.463	0.482	-4.1	105	0.00
15		ethanol	0.452	0.370	18.1	88	0.00
16		dichlorofluoromethane	2.117	1.992	5.9	92	0.00
17	C	vinyl bromide	0.939	1.156	-23.1	141#	0.00
18	C	acrolein	0.422	0.368	12.8	89	0.00
19		acetone	1.190	1.338	-12.4	133	0.00
20	C	acetonitrile	0.741	0.681	8.1	91	0.00
21		trichlorofluoromethane	3.106	3.360	-8.2	103	0.00
22		isopropyl alcohol	1.424	1.176	17.4	105	0.00
23	C	acrylonitrile	0.931	0.764	17.9	79	0.00
24		pentane	1.945	1.673	14.0	82	0.00
25		ethyl ether	0.970	0.985	-1.5	108	0.00
26	C	1,1-dichloroethene	2.235	2.391	-7.0	104	0.00
27		tertiary butyl alcohol	2.526	2.227	11.8	90	0.00
28	C	methylene chloride	1.300	1.372	-5.5	102	0.00
29	C	3-chloropropene	1.161	1.327	-14.3	137	0.00
30	C	carbon disulfide	2.910	3.372	-15.9	138	0.00
31		Freon 113	2.617	2.796	-6.8	102	0.00
32		trans-1,2-dichloroethene	1.572	1.848	-17.6	138	0.00
33	C	1,1-dichloroethane	2.291	2.408	-5.1	101	0.00
34	C	MTBE	2.991	3.546	-18.6	141#	0.00
35	C	vinyl acetate	2.093	1.670	20.2	99	0.00
36	C	2-butanone	1.105	1.225	-10.9	142#	0.00
37		cis-1,2-dichloroethene	0.968	1.030	-6.4	103	0.00
38		Ethyl Acetate	0.229	0.238	-3.9	118	0.00
39	C	chloroform	1.675	1.766	-5.4	103	0.00
40		Tetrahydrofuran	0.529	0.644	-21.7	161#	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	1.294	1.300	-0.5	97	0.00
42	C	1,2-dichloroethane	1.070	1.101	-2.9	102	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	96	0.00
44	C	hexane	0.263	0.316	-20.2	144#	0.00
45		diisopropyl ether	0.230	0.240	-4.3	101	0.00
46		tert-butyl ethyl ether	0.604	0.567	6.1	89	0.00
47	s	1,2-dichloroethane-D4	0.319	0.318	0.3	99	0.00
48	C	1,1,1-trichloroethane	0.504	0.529	-5.0	103	0.00
49		1,1-dichloropropene	0.363	0.408	-12.4	101	0.00
50	C	benzene	0.665	0.722	-8.6	103	0.00
52	C	carbon tetrachloride	0.514	0.545	-6.0	100	0.00
53		cyclohexane	0.264	0.315	-19.3	140	0.00
54		tert-amyl methyl ether	0.588	0.607	-3.2	99	0.00
55		dibromomethane	0.294	0.295	-0.3	96	0.00
56	C	1,2-dichloropropane	0.239	0.253	-5.9	100	0.00
57		bromodichloromethane	0.446	0.555	-24.4	145#	0.00
58	C	1,4-dioxane	0.135	0.152	-12.6	141#	0.00
59	C	trichloroethene	0.339	0.363	-7.1	99	0.00
60	C	2,2,4-trimethylpentane	0.824	1.040	-26.2	144#	0.00
61		methyl methacrylate	0.234	0.233	0.4	95	0.00
62		heptane	0.258	0.332	-28.7	148#	0.00
63	C	cis-1,3-dichloropropene	0.364	0.422	-15.9	109	0.00
64	C	4-methyl-2-pentanone	0.359	0.455	-26.7	145#	0.00
65		trans-1,3-dichloropropene	0.291	0.368	-26.5	117	0.00
66	C	1,1,2-trichloroethane	0.294	0.328	-11.6	102	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	97	0.00
68	C	toluene	5.303	5.872	-10.7	102	0.00
69	s	toluene-D8	5.466	5.637	-3.1	97	0.00
71		1,3-dichloropropane	2.583	2.520	2.4	91	0.00
72		2-hexanone	2.187	2.640	-20.7	131	0.00
74		dibromochloromethane	2.980	3.777	-26.7	145#	0.00
75	C	1,2-dibromoethane	2.941	3.337	-13.5	104	0.00
76		butyl acetate	0.627	0.678	-8.1	98	0.00
77		octane	1.643	1.739	-5.8	99	0.00
78	C	tetrachloroethene	2.846	3.108	-9.2	99	0.00
79		1,1,1,2-tetrachloroethane	2.405	2.340	2.7	93	0.00
80	C	chlorobenzene	4.442	4.770	-7.4	99	0.00

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	6.672	7.475	-12.0	97	0.00
83	C	m+p-xylene	5.357	6.321	-18.0	103	0.00
84	C	bromoform	3.005	3.891	-29.5	148#	0.00
85	C	styrene	3.941	4.621	-17.3	101	0.00
86	C	1,1,2,2-tetrachloroethane	4.214	4.646	-10.3	100	0.00
87	C	o-xylene	5.379	6.109	-13.6	100	0.00
88		1,2,3-trichloropropane	3.008	3.066	-1.9	94	0.00
89		nonane	2.754	2.975	-8.0	97	0.00
90	s	bromofluorobenzene	3.309	3.413	-3.1	95	0.00
91	C	isopropylbenzene	7.331	8.069	-10.1	96	0.00
92		bromobenzene	3.841	3.976	-3.5	95	0.00
93		2-chlorotoluene	2.054	2.092	-1.9	94	0.00
94		n-propylbenzene	2.289	2.304	-0.7	92	0.00
95		4-chlorotoluene	2.161	2.119	1.9	88	0.00
96		4-ethyl toluene	6.384	8.511	-33.3#	138	0.00
97		1,3,5-trimethylbenzene	6.024	7.247	-20.3	100	0.00
98		tert-butylbenzene	6.881	7.632	-10.9	95	0.00
99		1,2,4-trimethylbenzene	6.383	7.690	-20.5	102	0.00
100		decane	3.654	3.857	-5.6	94	0.00
101	C	Benzyl Chloride	3.920	4.672	-19.2	128	0.00
102		1,3-dichlorobenzene	4.852	5.550	-14.4	99	0.00
103	C	1,4-dichlorobenzene	4.954	5.618	-13.4	101	0.00
104		sec-butylbenzene	9.075	10.257	-13.0	95	0.00
106		p-isopropyltoluene	8.490	9.459	-11.4	93	0.00
107		1,2-dichlorobenzene	4.672	5.260	-12.6	96	0.00
108		n-butylbenzene	7.424	8.814	-18.7	97	0.00
111	C	1,2-dibromo-3-chloropropane	2.139	2.173	-1.6	91	0.00
112		undecane	4.320	4.684	-8.4	92	0.00
114		dodecane	4.805	6.189	-28.8	94	0.00
115	C	1,2,4-trichlorobenzene	4.395	4.665	-6.1	90	0.00
116		naphthalene	9.208	10.816	-17.5	89	0.00
117		1,2,3-trichlorobenzene	4.488	5.325	-18.6	91	0.00
119	C	hexachlorobutadiene	3.876	3.805	1.8	85	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 : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.501	49	255426	10.000	ppbV	0.00
Standard Area = 257186			Recovery = 99.32%			
43) 1,4-difluorobenzene	4.365	114	871443	10.000	ppbV	0.00
Standard Area = 907371			Recovery = 96.04%			
67) chlorobenzene-D5	6.449	54	138733	10.000	ppbV	0.00
Standard Area = 143611			Recovery = 96.60%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	276954	9.976	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.76%			
69) toluene-D8	5.541	98	782037	10.314	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.14%			
90) bromofluorobenzene	7.214	95	473478	10.315	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.15%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	95584	11.230	ppbV #	48
3) propylene	2.002	41	56194	9.697	ppbV	98
4) propane	2.013	29	42403	10.022	ppbV	96
5) dichlorodifluoromethane	2.024	85	475617	10.505	ppbV	98
6) chloromethane	2.074	50	157966	10.028	ppbV	98
7) Freon-114	2.107	85	675127	11.156	ppbV	99
8) methanol	2.123	31	261873	64.397	ppbV #	69
9) vinyl chloride	2.145	62	209921	10.316	ppbV	99
10) 1,3-butadiene	2.189	54	141231	11.695	ppbV	96
11) butane	2.206	43	232768	9.579	ppbV	99
13) bromomethane	2.272	94	231952	10.835	ppbV	97
14) chloroethane	2.326	64	123102	10.417	ppbV	99
15) ethanol	2.359	31	472850	40.917	ppbV	97
16) dichlorofluoromethane	2.354	67	508785	9.407	ppbV	99
17) vinyl bromide	2.432	106	295187	12.309	ppbV	99
18) acrolein	2.466	56	94000	8.718	ppbV	97
19) acetone	2.500	43	1708871	56.235	ppbV	99
20) acetonitrile	2.426	41	174007	9.197	ppbV	100
21) trichlorofluoromethane	2.551	101	858208	10.818	ppbV	98
22) isopropyl alcohol	2.562	45	751094	20.646	ppbV	100
23) acrylonitrile	2.624	53	195041M6	8.200	ppbV	
24) pentane	2.653	43	427359	8.601	ppbV	98
25) ethyl ether	2.653	31	251538	10.157	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	2.727	61	610848	10.701	ppbV		99
27) tertiary butyl alcohol	2.732	59	568852	8.816	ppbV		99
28) methylene chloride	2.755	49	350570	10.558	ppbV		97
29) 3-chloropropene	2.794	41	339055	11.438	ppbV		97
30) carbon disulfide	2.846	76	861191	11.587	ppbV		100
31) Freon 113	2.846	101	714091	10.684	ppbV		99
32) trans-1,2-dichloroethene	3.058	61	471940	11.755	ppbV		99
33) 1,1-dichloroethane	3.129	63	615100	10.514	ppbV		97
34) MTBE	3.160	73	905653	11.856	ppbV		99
35) vinyl acetate	3.191	43	426619	7.980	ppbV		100
36) 2-butanone	3.279	43	313012	11.090	ppbV		98
37) cis-1,2-dichloroethene	3.441	61	263143	10.645	ppbV		96
38) Ethyl Acetate	3.553	61	60839M6	10.420	ppbV		
39) chloroform	3.561	83	451063	10.543	ppbV		99
40) Tetrahydrofuran	3.725	42	164592M6	12.173	ppbV		
41) 2,2-dichloropropane	3.576	77	332014	10.042	ppbV		99
42) 1,2-dichloroethane	3.868	62	281217	10.293	ppbV		97
44) hexane	3.546	57	275371	12.019	ppbV		78
45) diisopropyl ether	3.546	87	209299	10.441	ppbV		92
46) tert-butyl ethyl ether	3.770	59	493794	9.388	ppbV		96
48) 1,1,1-trichloroethane	3.982	97	461032	10.487	ppbV		97
49) 1,1-dichloropropene	4.120	75	355350	11.220	ppbV		95
50) benzene	4.177	78	628819	10.855	ppbV		96
52) carbon tetrachloride	4.252	117	475358	10.614	ppbV		98
53) cyclohexane	4.309	56	274569	11.927	ppbV		99
54) tert-amyl methyl ether	4.479	73	529132	10.327	ppbV		98
55) dibromomethane	4.545	93	256863	10.041	ppbV		97
56) 1,2-dichloropropane	4.563	63	220704	10.608	ppbV		98
57) bromodichloromethane	4.658	83	483918	12.458	ppbV		96
58) 1,4-dioxane	4.686	88	132064	11.221	ppbV		97
59) trichloroethene	4.686	130	316065	10.714	ppbV		97
60) 2,2,4-trimethylpentane	4.724	57	906459	12.617	ppbV		99
61) methyl methacrylate	4.808	41	203046	9.974	ppbV		98
62) heptane	4.865	43	289011	12.858	ppbV		98
63) cis-1,3-dichloropropene	5.110	75	367867	11.598	ppbV		99
64) 4-methyl-2-pentanone	5.142	43	396159	12.652	ppbV		100
65) trans-1,3-dichloropropene	5.374	75	321067	12.650	ppbV		96
66) 1,1,2-trichloroethane	5.445	97	285609	11.144	ppbV		98
68) toluene	5.589	91	814689	11.073	ppbV		99
71) 1,3-dichloropropane	5.605	76	349562	9.756	ppbV	#	96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	5.749	43	366187	12.067	ppbV	98
74) dibromochloromethane	5.781	129	524029	12.675	ppbV	100
75) 1,2-dibromoethane	5.892	107	462888	11.345	ppbV	98
76) butyl acetate	6.092	73	94039	10.818	ppbV	95
77) octane	6.132	85	241198	10.580	ppbV	93
78) tetrachloroethene	6.140	166	431228	10.921	ppbV	98
79) 1,1,1,2-tetrachloroethane	6.466	131	324613	9.730	ppbV	99
80) chlorobenzene	6.471	112	661779	10.738	ppbV	98
81) ethylbenzene	6.673	91	1037079	11.203	ppbV	99
83) m+p-xylene	6.766	91	1753797	23.597	ppbV	98
84) bromoform	6.766	173	539796	12.946	ppbV	100
85) styrene	6.940	104	641087	11.727	ppbV	100
86) 1,1,2,2-tetrachloroethane	6.981	83	644533	11.026	ppbV	99
87) o-xylene	6.987	91	847548	11.358	ppbV	97
88) 1,2,3-trichloropropane	7.045	75	425414	10.193	ppbV	98
89) nonane	7.155	43	412764	10.802	ppbV	97
91) isopropylbenzene	7.295	105	1119459	11.007	ppbV	99
92) bromobenzene	7.307	77	551569M6	10.350	ppbV	
93) 2-chlorotoluene	7.523	126	290170	10.181	ppbV	98
94) n-propylbenzene	7.555	120	319702	10.069	ppbV	92
95) 4-chlorotoluene	7.563	126	294023	9.809	ppbV	86
96) 4-ethyl toluene	7.635	105	1180815	13.331	ppbV	99
97) 1,3,5-trimethylbenzene	7.683	105	1005419	12.030	ppbV	100
98) tert-butylbenzene	7.891	119	1058758	11.091	ppbV	99
99) 1,2,4-trimethylbenzene	7.899	105	1066818	12.047	ppbV	99
100) decane	8.002	57	535029	10.554	ppbV	99
101) Benzyl Chloride	7.954	91	648214	11.919	ppbV	100
102) 1,3-dichlorobenzene	7.954	146	769988	11.439	ppbV	100
103) 1,4-dichlorobenzene	7.994	146	779345	11.339	ppbV	100
104) sec-butylbenzene	8.042	105	1422980	11.303	ppbV	98
106) p-isopropyltoluene	8.146	119	1312334	11.142	ppbV	99
107) 1,2-dichlorobenzene	8.178	146	729684	11.258	ppbV	97
108) n-butylbenzene	8.385	91	1222725	11.872	ppbV	97
111) 1,2-dibromo-3-chloropr...	8.433	75	301402	10.156	ppbV	97
112) undecane	8.729	57	649866	10.842	ppbV	99
114) dodecane	9.335	57	858651	12.880	ppbV	98
115) 1,2,4-trichlorobenzene	9.184	180	647245	10.614	ppbV	98
116) naphthalene	9.236	128	1500597	11.747	ppbV	100
117) 1,2,3-trichlorobenzene	9.388	180	738763	11.866	ppbV	98
119) hexachlorobutadiene	9.464	225	527893	9.816	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
Sample : CTO15-LLSTD010
Misc : WG2041764
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 18 06:46:00 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\R262187.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 listedICAL\R262187.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314T_ICAL\
Data File : R262196.D
Acq On : 17 Mar 2025 10:36 am
Operator : AIRLAB26:APR
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Misc : WG2041764
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Quant Time: Mar 18 06:46:00 2025
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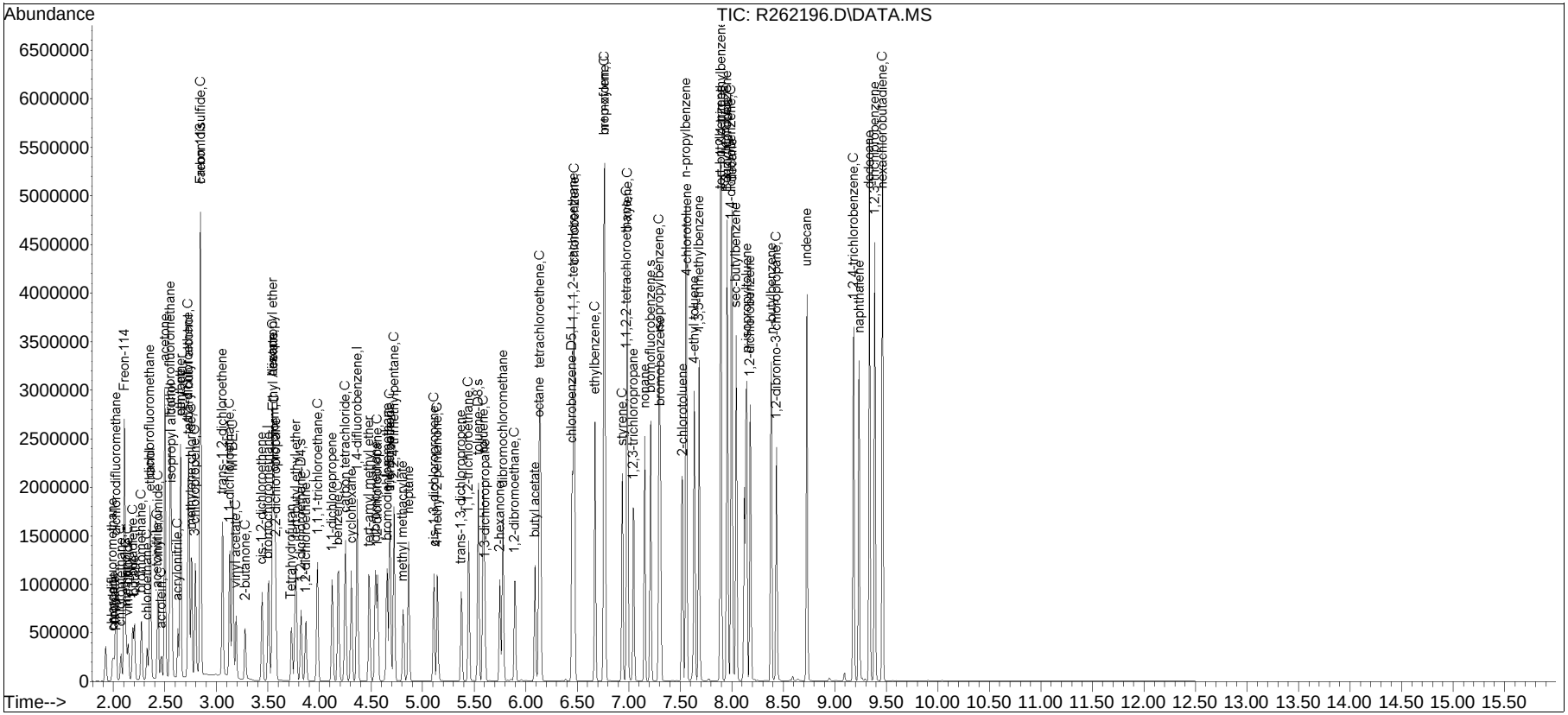
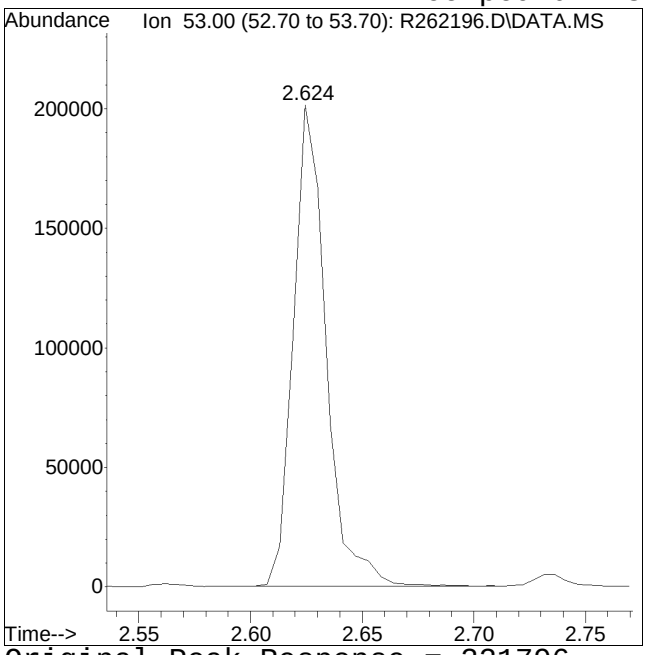
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration



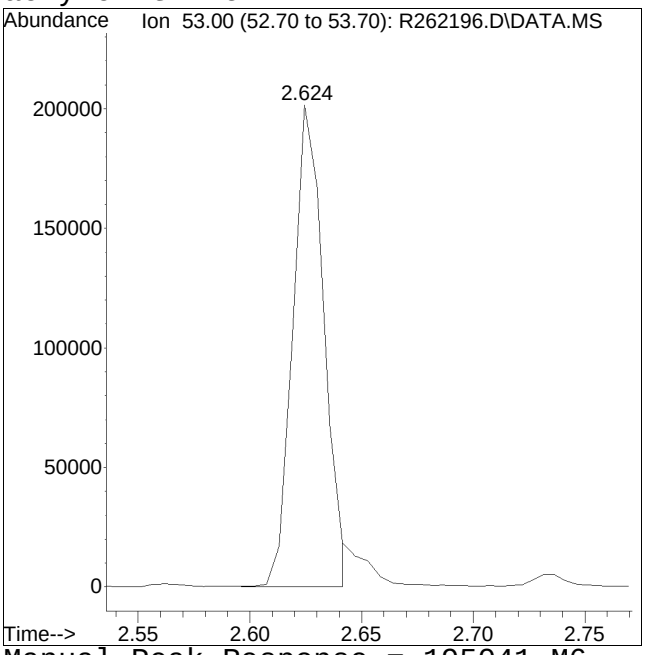
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262196.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 10:36 am Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 3/18/2025 6:46 am

Compound #23: acrylonitrile



Original Peak Response = 221796



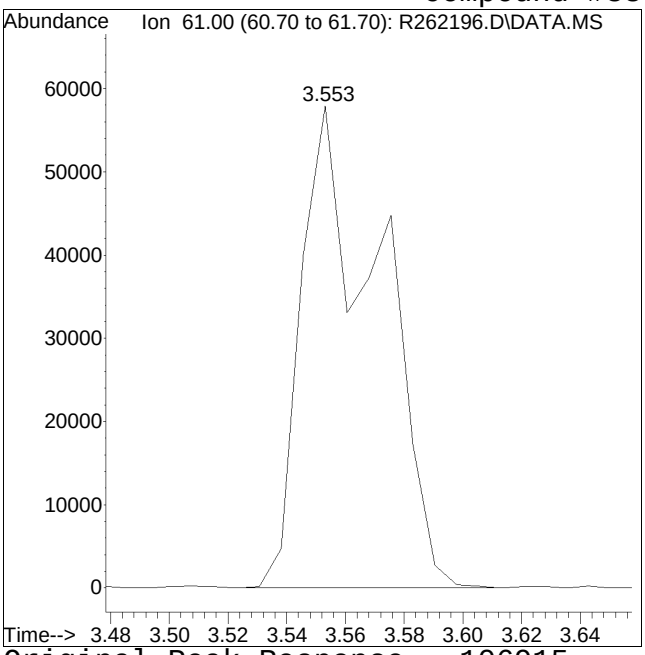
Manual Peak Response = 195041 M6

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

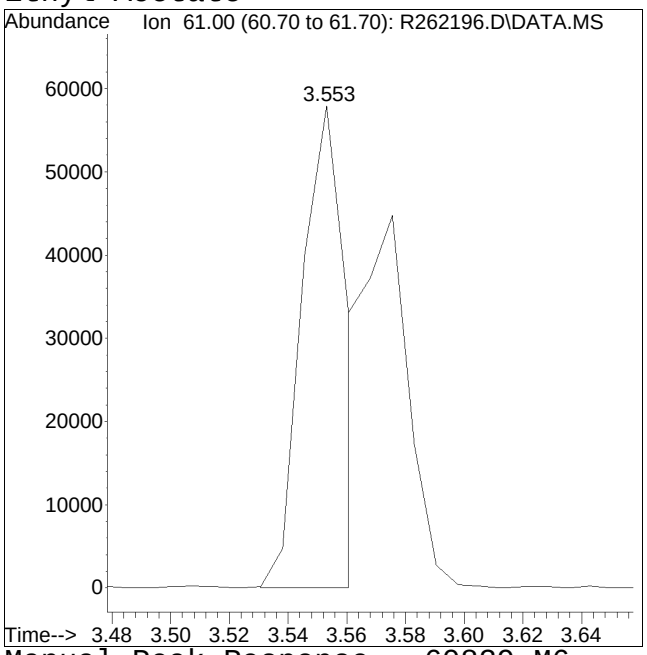
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262196.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 10:36 am Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 3/18/2025 6:46 am

Compound #38: Ethyl Acetate



Original Peak Response = 106915



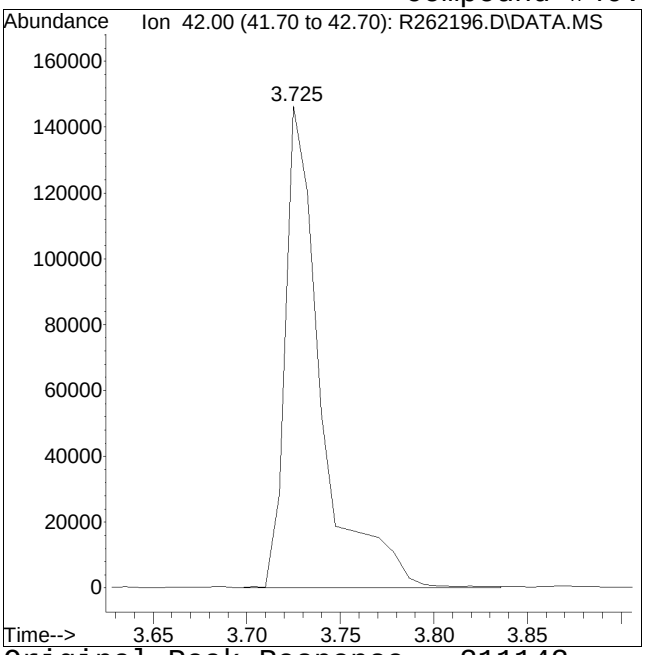
Manual Peak Response = 60839 M6

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

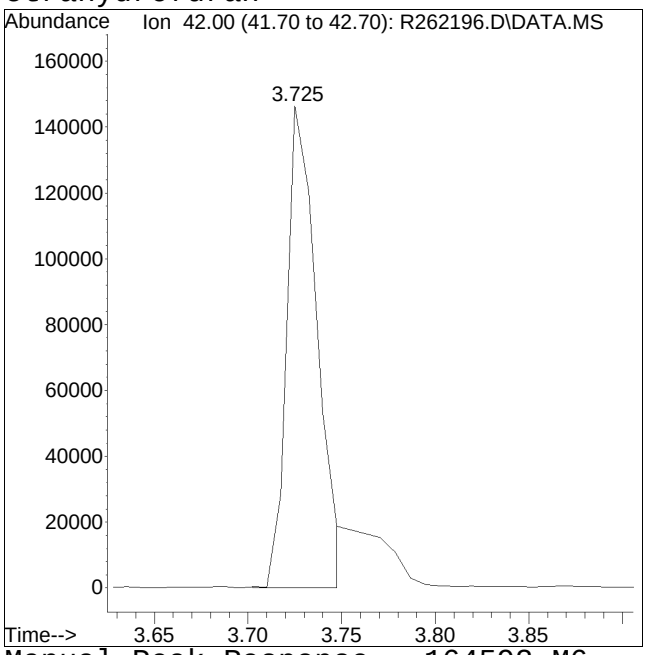
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262196.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 10:36 am Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 3/18/2025 6:46 am

Compound #40: Tetrahydrofuran



Original Peak Response = 211142



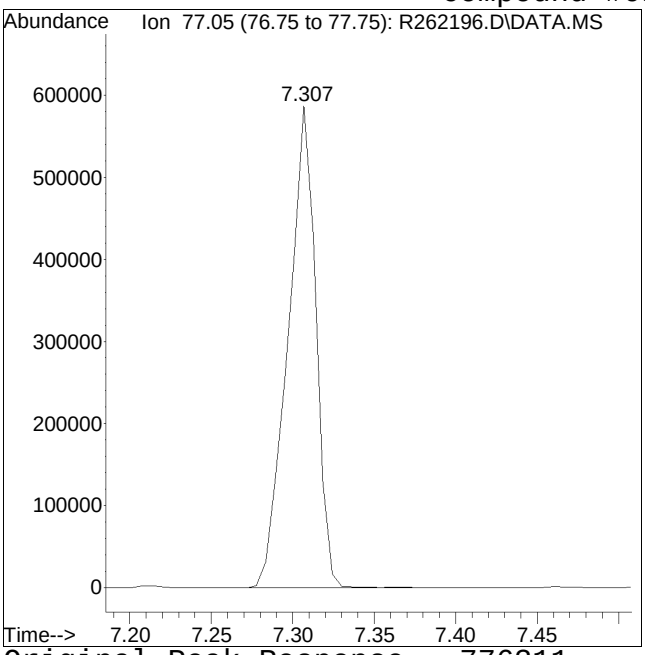
Manual Peak Response = 164592 M6

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

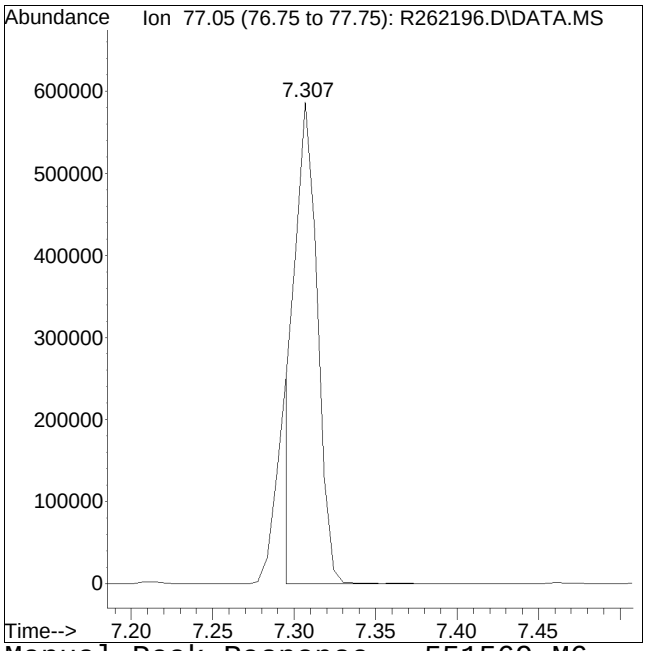
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262196.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 10:36 am Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 3/18/2025 6:46 am

Compound #92: bromobenzene



Original Peak Response = 776311



Manual Peak Response = 551569 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Calibration Date**	: 03/27/25 11:44
Lab File ID	: R262484	**Init. Calib. Date(s)**	: 03/14/25 03/15/25
Sample No	: WG2046188-2	**Init. Calib. Times**	: 22:06 02:06
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	68	0
chlorodifluoromethane	0.333	0.378	-	-13.5	30	59	0
propylene	0.227	0.168	-	26	30	65	-.01
propane	0.166	0.159	-	4.2	30	66	0
dichlorodifluoromethane	1.773	1.948	-	-9.9	30	73	0
chloromethane	0.617	0.666	-	-7.9	30	71	0
Freon-114	2.369	2.482	-	-4.8	30	69	0
methanol	0.159	0.237	-	-49.1*	30	97	0
vinyl chloride	0.797	0.832	-	-4.4	30	70	0
1,3-butadiene	0.473	0.4	-	15.4	30	70	0
butane	0.951	0.999	-	-5	30	73	0
acetaldehyde	0.394	0.376	-	4.6	30	69	0
bromomethane	0.838	0.84	-	-0.2	30	68	-.01
chloroethane	0.463	0.465	-	-0.4	30	70	-.01
ethanol	0.452	0.415	-	8.2	30	68	0
dichlorofluoromethane	2.117	1.989	-	6	30	63	-.01
vinyl bromide	0.939	0.809	-	13.8	30	68	-.01
acrolein	0.422	0.446	-	-5.7	30	74	0
acetone	1.19	1	-	16	30	68	-.01
acetonitrile	0.741	0.749	-	-1.1	30	69	-.01
trichlorofluoromethane	3.106	2.997	-	3.5	30	63	0
isopropyl alcohol	1.424	1.155	-	18.9	30	71	0
acrylonitrile	0.931	0.998	-	-7.2	30	71	0
pentane	1.945	2.14	-	-10	30	72	0
ethyl ether	0.97	1.046	-	-7.8	30	79	0
1,1-dichloroethene	2.235	2.284	-	-2.2	30	68	0
tertiary butyl alcohol	2.526	2.387	-	5.5	30	66	0
methylene chloride	1.3	1.344	-	-3.4	30	68	0
3-chloropropene	1.161	0.95	-	18.2	30	67	0
carbon disulfide	2.91	2.494	-	14.3	30	70	0
Freon 113	2.617	2.658	-	-1.6	30	67	0
trans-1,2-dichloroethene	1.572	1.322	-	15.9	30	68	0
1,1-dichloroethane	2.291	2.391	-	-4.4	30	69	0
MTBE	2.991	2.439	-	18.5	30	67	0
vinyl acetate	2.093	1.961	-	6.3	30	80	0
2-butanone	1.105	1.083	-	2	30	86	0
cis-1,2-dichloroethene	0.968	0.943	-	2.6	30	65	0
Ethyl Acetate	0.229	0.182	-	20.5	30	62	0
chloroform	1.675	1.681	-	-0.4	30	67	0
Tetrahydrofuran	0.529	0.379	-	28.4	30	65	0
2,2-dichloropropane	1.294	1.385	-	-7	30	71	0
1,2-dichloroethane	1.07	1.055	-	1.4	30	67	0
1,4-difluorobenzene	1	1	-	0	30	68	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Haley & Aldrich		Lab Number	: L2514968	
Project Name	: 340 MYRTLE AVE		Project Number	: 0210873-000-001-13	
Instrument ID	: AIRLAB26		Calibration Date	: 03/27/25 11:44	
Lab File ID	: R262484		Init. Calib. Date(s)	: 03/14/25	03/15/25
Sample No	: WG2046188-2		Init. Calib. Times	: 22:06	02:06
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
hexane	0.263	0.212	-	19.4	30	68	0
diisopropyl ether	0.23	0.238	-	-3.5	30	70	0
tert-butyl ethyl ether	0.604	0.504	-	16.6	30	56	0
1,2-dichloroethane-D4	0.319	0.301	-	5.6	30	66	0
1,1,1-trichloroethane	0.504	0.49	-	2.8	30	67	0
1,1-dichloropropene	0.363	0.395	-	-8.8	30	69	0
benzene	0.665	0.684	-	-2.9	30	69	0
thiophene	0.755	0.835	-	-10.6	30	41	0
carbon tetrachloride	0.514	0.52	-	-1.2	30	67	0
cyclohexane	0.264	0.214	-	18.9	30	67	0
tert-amyl methyl ether	0.588	0.594	-	-1	30	68	0
dibromomethane	0.294	0.311	-	-5.8	30	71	0
1,2-dichloropropane	0.239	0.244	-	-2.1	30	68	0
bromodichloromethane	0.446	0.373	-	16.4	30	68	0
1,4-dioxane	0.135	0.102	-	24.4	30	67	0
trichloroethene	0.339	0.34	-	-0.3	30	66	0
2,2,4-trimethylpentane	0.824	0.71	-	13.8	30	69	0
methyl methacrylate	0.234	0.237	-	-1.3	30	68	0
heptane	0.258	0.21	-	18.6	30	66	0
cis-1,3-dichloropropene	0.364	0.36	-	1.1	30	65	0
4-methyl-2-pentanone	0.359	0.3	-	16.4	30	67	0
trans-1,3-dichloropropene	0.291	0.296	-	-1.7	30	66	0
1,1,2-trichloroethane	0.294	0.307	-	-4.4	30	67	0
chlorobenzene-D5	1	1	-	0	30	66	0
toluene	5.303	5.599	-	-5.6	30	66	0
toluene-D8	5.466	5.554	-	-1.6	30	65	0
2-methylthiophene	7.235	8.518	-	-17.7	30	39	0
1,3-dichloropropane	2.583	2.856	-	-10.6	30	71	0
2-hexanone	2.187	1.898	-	13.2	30	64	0
3-methylthiophene	7.699	9.327	-	-21.1	30	40	0
dibromochloromethane	2.98	2.708	-	9.1	30	71	0
1,2-dibromoethane	2.941	3.273	-	-11.3	30	70	0
butyl acetate	0.627	0.731	-	-16.6	30	72	0
octane	1.643	1.805	-	-9.9	30	70	0
tetrachloroethene	2.846	3.047	-	-7.1	30	66	0
1,1,1,2-tetrachloroethane	2.405	2.687	-	-11.7	30	73	0
chlorobenzene	4.442	4.787	-	-7.8	30	67	0
ethylbenzene	6.672	7.426	-	-11.3	30	66	0
2-ethylthiophene	8.899	10.894	-	-22.4	30	39	0
m+p-xylene	5.357	6.118	-	-14.2	30	68	0
bromoform	3.005	2.713	-	9.7	30	70	0
styrene	3.941	4.313	-	-9.4	30	64	0
1,1,2,2-tetrachloroethane	4.214	4.74	-	-12.5	30	70	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Calibration Date**	: 03/27/25 11:44
Lab File ID	: R262484	**Init. Calib. Date(s)**	: 03/14/25 03/15/25
Sample No	: WG2046188-2	**Init. Calib. Times**	: 22:06 02:06
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
o-xylene	5.379	6.002	-	-11.6	30	67	0
1,2,3-trichloropropane	3.008	3.388	-	-12.6	30	71	0
nonane	2.754	3.073	-	-11.6	30	68	0
bromofluorobenzene	3.309	3.45	-	-4.3	30	66	0
isopropylbenzene	7.331	8.687	-	-18.5	30	70	0
bromobenzene	3.841	4.233	-	-10.2	30	69	0
2-chlorotoluene	2.054	2.295	-	-11.7	30	70	0
n-propylbenzene	2.289	2.608	-	-13.9	30	71	0
4-chlorotoluene	2.161	2.41	-	-11.5	30	68	0
4-ethyl toluene	6.384	6.072	-	4.9	30	67	0
1,3,5-trimethylbenzene	6.024	6.902	-	-14.6	30	65	0
tert-butylbenzene	6.881	8.162	-	-18.6	30	69	0
1,2,4-trimethylbenzene	6.383	7.49	-	-17.3	30	68	0
decane	3.654	4.166	-	-14	30	69	0
Benzyl Chloride	3.92	4.076	-	-4	30	76	0
1,3-dichlorobenzene	4.852	5.688	-	-17.2	30	69	0
1,4-dichlorobenzene	4.954	5.746	-	-16	30	71	0
sec-butylbenzene	9.075	11.349	-	-25.1	30	72	0
1,2,3-trimethylbenzene	6.67	7.964	-	-19.4	30	70	0
p-isopropyltoluene	8.49	10.802	-	-27.2	30	72	0
1,2-dichlorobenzene	4.672	5.392	-	-15.4	30	67	0
n-butylbenzene	7.424	9.551	-	-28.7	30	72	0
indan	5.942	6.97	-	-17.3	30	72	0
indene	4.733	5.863	-	-23.9	30	73	0
1,2-dibromo-3-chloropropan	2.139	2.542	-	-18.8	30	72	0
undecane	4.32	5.216	-	-20.7	30	70	0
1,2,4,5-tetramethylbenzene	3.147	5.143	-	-63.4*	30	79	0
dodecane	4.805	7.006	-	-45.8*	30	73	0
1,2,4-trichlorobenzene	4.395	5.194	-	-18.2	30	68	0
naphthalene	9.208	13.021	-	-41.4*	30	73	0
1,2,3-trichlorobenzene	4.488	6.084	-	-35.6*	30	71	0
benzothiophene	4.296	4.338	-	-1	30	48	0
hexachlorobutadiene	3.876	4.575	-	-18	30	70	0
2-methylnaphthalene	0.815	0.856	-	-5	30	45	0
1-methylnaphthalene	1.109	1.315	-	-18.6	30	50	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	68	0.00
2		chlorodifluoromethane	0.333	0.378	-13.5	59#	0.00
3		propylene	0.227	0.168	26.0	65	-0.01
4		propane	0.166	0.159	4.2	66	0.00
5		dichlorodifluoromethane	1.773	1.948	-9.9	73	0.00
6	C	chloromethane	0.617	0.666	-7.9	71	0.00
7		Freon-114	2.369	2.482	-4.8	69	0.00
8	C	methanol	0.159	0.237	-49.1#	97	0.00
9	C	vinyl chloride	0.797	0.832	-4.4	70	0.00
10	C	1,3-butadiene	0.473	0.400	15.4	70	0.00
11		butane	0.951	0.999	-5.0	73	0.00
12	C	acetaldehyde	0.394	0.376	4.6	69	0.00
13	C	bromomethane	0.838	0.840	-0.2	68	-0.01
14	C	chloroethane	0.463	0.465	-0.4	70	-0.01
15		ethanol	0.452	0.415	8.2	68	0.00
16		dichlorofluoromethane	2.117	1.989	6.0	63	-0.01
17	C	vinyl bromide	0.939	0.809	13.8	68	-0.01
18	C	acrolein	0.422	0.446	-5.7	74	0.00
19		acetone	1.190	1.000	16.0	68	-0.01
20	C	acetonitrile	0.741	0.749	-1.1	69	-0.01
21		trichlorofluoromethane	3.106	2.997	3.5	63	0.00
22		isopropyl alcohol	1.424	1.155	18.9	71	0.00
23	C	acrylonitrile	0.931	0.998	-7.2	71	0.00
24		pentane	1.945	2.140	-10.0	72	0.00
25		ethyl ether	0.970	1.046	-7.8	79	0.00
26	C	1,1-dichloroethene	2.235	2.284	-2.2	68	0.00
27		tertiary butyl alcohol	2.526	2.387	5.5	66	0.00
28	C	methylene chloride	1.300	1.344	-3.4	68	0.00
29	C	3-chloropropene	1.161	0.950	18.2	67	0.00
30	C	carbon disulfide	2.910	2.494	14.3	70	0.00
31		Freon 113	2.617	2.658	-1.6	67	0.00
32		trans-1,2-dichloroethene	1.572	1.322	15.9	68	0.00
33	C	1,1-dichloroethane	2.291	2.391	-4.4	69	0.00
34	C	MTBE	2.991	2.439	18.5	67	0.00
35	C	vinyl acetate	2.093	1.961	6.3	80	0.00
36	C	2-butanone	1.105	1.083	2.0	86	0.00
37		cis-1,2-dichloroethene	0.968	0.943	2.6	65	0.00
38		Ethyl Acetate	0.229	0.182	20.5	62	0.00
39	C	chloroform	1.675	1.681	-0.4	67	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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		Tetrahydrofuran	0.529	0.379	28.4	65	0.00
41		2,2-dichloropropane	1.294	1.385	-7.0	71	0.00
42	C	1,2-dichloroethane	1.070	1.055	1.4	67	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	68	0.00
44	C	hexane	0.263	0.212	19.4	68	0.00
45		diisopropyl ether	0.230	0.238	-3.5	70	0.00
46		tert-butyl ethyl ether	0.604	0.504	16.6	56#	0.00
47	s	1,2-dichloroethane-D4	0.319	0.301	5.6	66	0.00
48	C	1,1,1-trichloroethane	0.504	0.490	2.8	67	0.00
49		1,1-dichloropropene	0.363	0.395	-8.8	69	0.00
50	C	benzene	0.665	0.684	-2.9	69	0.00
51		thiophene	0.755	0.835	-10.6	41#	0.00
52	C	carbon tetrachloride	0.514	0.520	-1.2	67	0.00
53		cyclohexane	0.264	0.214	18.9	67	0.00
54		tert-amyl methyl ether	0.588	0.594	-1.0	68	0.00
55		dibromomethane	0.294	0.311	-5.8	71	0.00
56	C	1,2-dichloropropane	0.239	0.244	-2.1	68	0.00
57		bromodichloromethane	0.446	0.373	16.4	68	0.00
58	C	1,4-dioxane	0.135	0.102	24.4	67	0.00
59	C	trichloroethene	0.339	0.340	-0.3	66	0.00
60	C	2,2,4-trimethylpentane	0.824	0.710	13.8	69	0.00
61		methyl methacrylate	0.234	0.237	-1.3	68	0.00
62		heptane	0.258	0.210	18.6	66	0.00
63	C	cis-1,3-dichloropropene	0.364	0.360	1.1	65	0.00
64	C	4-methyl-2-pentanone	0.359	0.300	16.4	67	0.00
65		trans-1,3-dichloropropene	0.291	0.296	-1.7	66	0.00
66	C	1,1,2-trichloroethane	0.294	0.307	-4.4	67	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	66	0.00
68	C	toluene	5.303	5.599	-5.6	66	0.00
69	s	toluene-D8	5.466	5.554	-1.6	65	0.00
70		2-methylthiophene	7.235	8.518	-17.7	39#	0.00
71		1,3-dichloropropane	2.583	2.856	-10.6	71	0.00
72		2-hexanone	2.187	1.898	13.2	64	0.00
73		3-methylthiophene	7.699	9.327	-21.1	40#	0.00
74		dibromochloromethane	2.980	2.708	9.1	71	0.00
75	C	1,2-dibromoethane	2.941	3.273	-11.3	70	0.00
76		butyl acetate	0.627	0.731	-16.6	72	0.00

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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		octane	1.643	1.805	-9.9	70	0.00
78	C	tetrachloroethene	2.846	3.047	-7.1	66	0.00
79		1,1,1,2-tetrachloroethane	2.405	2.687	-11.7	73	0.00
80	C	chlorobenzene	4.442	4.787	-7.8	67	0.00
81	C	ethylbenzene	6.672	7.426	-11.3	66	0.00
82		2-ethylthiophene	8.899	10.894	-22.4	39#	0.00
83	C	m+p-xylene	5.357	6.118	-14.2	68	0.00
84	C	bromoform	3.005	2.713	9.7	70	0.00
85	C	styrene	3.941	4.313	-9.4	64	0.00
86	C	1,1,2,2-tetrachloroethane	4.214	4.740	-12.5	70	0.00
87	C	o-xylene	5.379	6.002	-11.6	67	0.00
88		1,2,3-trichloropropane	3.008	3.388	-12.6	71	0.00
89		nonane	2.754	3.073	-11.6	68	0.00
90	s	bromofluorobenzene	3.309	3.450	-4.3	66	0.00
91	C	isopropylbenzene	7.331	8.687	-18.5	70	0.00
92		bromobenzene	3.841	4.233	-10.2	69	0.00
93		2-chlorotoluene	2.054	2.295	-11.7	70	0.00
94		n-propylbenzene	2.289	2.608	-13.9	71	0.00
95		4-chlorotoluene	2.161	2.410	-11.5	68	0.00
96		4-ethyl toluene	6.384	6.072	4.9	67	0.00
97		1,3,5-trimethylbenzene	6.024	6.902	-14.6	65	0.00
98		tert-butylbenzene	6.881	8.162	-18.6	69	0.00
99		1,2,4-trimethylbenzene	6.383	7.490	-17.3	68	0.00
100		decane	3.654	4.166	-14.0	69	0.00
101	C	Benzyl Chloride	3.920	4.076	-4.0	76	0.00
102		1,3-dichlorobenzene	4.852	5.688	-17.2	69	0.00
103	C	1,4-dichlorobenzene	4.954	5.746	-16.0	71	0.00
104		sec-butylbenzene	9.075	11.349	-25.1	72	0.00
105		1,2,3-trimethylbenzene	6.670	7.964	-19.4	70	0.00
106		p-isopropyltoluene	8.490	10.802	-27.2	72	0.00
107		1,2-dichlorobenzene	4.672	5.392	-15.4	67	0.00
108		n-butylbenzene	7.424	9.551	-28.7	72	0.00
109		indan	5.942	6.970	-17.3	72	0.00
110		indene	4.733	5.863	-23.9	73	0.00
111	C	1,2-dibromo-3-chloropropane	2.139	2.542	-18.8	72	0.00
112		undecane	4.320	5.216	-20.7	70	0.00
113		1,2,4,5-tetramethylbenzene	3.147	5.143	-63.4#	79	0.00
114		dodecane	4.805	7.006	-45.8#	73	0.00
115	C	1,2,4-trichlorobenzene	4.395	5.194	-18.2	68	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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)
116		naphthalene	9.208	13.021	-41.4#	73	0.00
117		1,2,3-trichlorobenzene	4.488	6.084	-35.6#	71	0.00
118		benzothiophene	4.296	4.338	-1.0	48#	0.00
119	C	hexachlorobutadiene	3.876	4.575	-18.0	70	0.00
120		2-methylnaphthalene	0.815	0.856	-5.0	45#	0.00
121		1-methylnaphthalene	1.109	1.315	-18.6	50#	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 : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.501	49	175168	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 100.00%			
43) 1,4-difluorobenzene	4.365	114	612528	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 100.00%			
67) chlorobenzene-D5	6.449	54	94640	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	184107	9.435	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.35%			
69) toluene-D8	5.541	98	525671	10.163	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.63%			
90) bromofluorobenzene	7.214	95	326530	10.428	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.28%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.980	51	66211M6	11.344	ppbV	
3) propylene	1.997	41	29446M6	7.409	ppbV	
4) propane	2.008	29	27837	9.593	ppbV	95
5) dichlorodifluoromethane	2.019	85	341304	10.992	ppbV	99
6) chloromethane	2.068	50	116609	10.795	ppbV	96
7) Freon-114	2.101	85	434770	10.476	ppbV	99
8) methanol	2.118	31	207646	74.458	ppbV #	83
9) vinyl chloride	2.140	62	145761	10.445	ppbV	96
10) 1,3-butadiene	2.184	54	70130	8.468	ppbV	100
11) butane	2.200	43	174946	10.498	ppbV	99
12) acetaldehyde	2.107	29	329120	47.709	ppbV	98
13) bromomethane	2.266	94	147170	10.024	ppbV	97
14) chloroethane	2.321	64	81494	10.056	ppbV	99
15) ethanol	2.354	31	363169	45.825	ppbV	99
16) dichlorofluoromethane	2.348	67	348472	9.395	ppbV	100
17) vinyl bromide	2.426	106	141782	8.621	ppbV	99
18) acrolein	2.460	56	78158	10.570	ppbV	96
19) acetone	2.494	43	875572	42.014	ppbV	99
20) acetonitrile	2.420	41	131170	10.109	ppbV	93
21) trichlorofluoromethane	2.551	101	524963	9.649	ppbV	100
22) isopropyl alcohol	2.562	45	505597	20.266	ppbV	100
23) acrylonitrile	2.624	53	174870	10.721	ppbV	97
24) pentane	2.647	43	374780	10.998	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.653	31	183226	10.789	ppbV		93
26) 1,1-dichloroethene	2.722	61	400035	10.218	ppbV		99
27) tertiary butyl alcohol	2.731	59	418207	9.451	ppbV		97
28) methylene chloride	2.755	49	235380	10.337	ppbV		99
29) 3-chloropropene	2.793	41	166443	8.188	ppbV		98
30) carbon disulfide	2.841	76	436823	8.570	ppbV		100
31) Freon 113	2.841	101	465541	10.156	ppbV		94
32) trans-1,2-dichloroethene	3.058	61	231485	8.407	ppbV		98
33) 1,1-dichloroethane	3.128	63	418760	10.437	ppbV		98
34) MTBE	3.155	73	427301	8.157	ppbV		97
35) vinyl acetate	3.190	43	343467	9.369	ppbV		100
36) 2-butanone	3.275	43	189666	9.799	ppbV		99
37) cis-1,2-dichloroethene	3.441	61	165163	9.742	ppbV		98
38) Ethyl Acetate	3.553	61	31952M6	7.980	ppbV		
39) chloroform	3.560	83	294474	10.036	ppbV		99
40) Tetrahydrofuran	3.725	42	66457M6	7.167	ppbV		
41) 2,2-dichloropropane	3.568	77	242694	10.704	ppbV		99
42) 1,2-dichloroethane	3.868	62	184744	9.860	ppbV		98
44) hexane	3.546	57	129902	8.066	ppbV	#	33
45) diisopropyl ether	3.546	87	145876	10.353	ppbV		99
46) tert-butyl ethyl ether	3.770	59	308555	8.346	ppbV		96
48) 1,1,1-trichloroethane	3.974	97	300149	9.713	ppbV		98
49) 1,1-dichloropropene	4.120	75	242115	10.876	ppbV		96
50) benzene	4.177	78	418933	10.289	ppbV		98
51) thiophene	4.233	84	511273	11.055	ppbV		98
52) carbon tetrachloride	4.252	117	318314	10.112	ppbV		98
53) cyclohexane	4.309	56	130816	8.085	ppbV		95
54) tert-amyl methyl ether	4.478	73	363919	10.105	ppbV		99
55) dibromomethane	4.544	93	190274	10.582	ppbV		98
56) 1,2-dichloropropane	4.563	63	149217	10.204	ppbV		99
57) bromodichloromethane	4.648	83	228289	8.361	ppbV		95
58) 1,4-dioxane	4.686	88	62743	7.585	ppbV		97
59) trichloroethene	4.676	130	208446	10.053	ppbV		96
60) 2,2,4-trimethylpentane	4.723	57	434705	8.608	ppbV		98
61) methyl methacrylate	4.808	41	145403	10.162	ppbV		99
62) heptane	4.865	43	128629	8.141	ppbV		93
63) cis-1,3-dichloropropene	5.110	75	220281	9.881	ppbV		98
64) 4-methyl-2-pentanone	5.142	43	183505	8.338	ppbV		98
65) trans-1,3-dichloropropene	5.373	75	181211	10.158	ppbV		99
66) 1,1,2-trichloroethane	5.445	97	188242	10.449	ppbV		97

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	529858	10.557	ppbV	99
70) 2-methylthiophene	5.613	97	806120	11.772	ppbV	98
71) 1,3-dichloropropane	5.605	76	270304	11.058	ppbV	97
72) 2-hexanone	5.748	43	179643	8.678	ppbV	95
73) 3-methylthiophene	5.701	97	882737	12.114	ppbV	99
74) dibromochloromethane	5.780	129	256295	9.087	ppbV	100
75) 1,2-dibromoethane	5.892	107	309776	11.130	ppbV	97
76) butyl acetate	6.092	73	69136	11.658	ppbV	100
77) octane	6.132	85	170796	10.983	ppbV	95
78) tetrachloroethene	6.140	166	288372	10.706	ppbV	99
79) 1,1,1,2-tetrachloroethane	6.465	131	254293	11.174	ppbV	99
80) chlorobenzene	6.471	112	453018	10.776	ppbV	99
81) ethylbenzene	6.673	91	702796	11.130	ppbV	100
82) 2-ethylthiophene	6.689	97	1031011	12.242	ppbV	99
83) m+p-xylene	6.766	91	1158026	22.840	ppbV	98
84) bromoform	6.766	173	256754	9.027	ppbV	99
85) styrene	6.940	104	408165	10.945	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	448595	11.249	ppbV	98
87) o-xylene	6.987	91	568042	11.159	ppbV	96
88) 1,2,3-trichloropropane	7.045	75	320673	11.263	ppbV	96
89) nonane	7.155	43	290787	11.155	ppbV	96
91) isopropylbenzene	7.295	105	822162	11.851	ppbV	100
92) bromobenzene	7.307	77	400636M4	11.020	ppbV	
93) 2-chlorotoluene	7.515	126	217219	11.173	ppbV	86
94) n-propylbenzene	7.555	120	246868	11.398	ppbV	91
95) 4-chlorotoluene	7.563	126	228070	11.154	ppbV	95
96) 4-ethyl toluene	7.635	105	574633	9.510	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	653215	11.457	ppbV	98
98) tert-butylbenzene	7.890	119	772409	11.862	ppbV	99
99) 1,2,4-trimethylbenzene	7.898	105	708849	11.734	ppbV	97
100) decane	8.002	57	394304	11.402	ppbV	99
101) Benzyl Chloride	7.954	91	385753	10.397	ppbV	99
102) 1,3-dichlorobenzene	7.954	146	538322	11.724	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	543817	11.599	ppbV	98
104) sec-butylbenzene	8.042	105	1074064	12.506	ppbV	97
105) 1,2,3-trimethylbenzene	8.122	105	753753	11.940	ppbV	100
106) p-isopropyltoluene	8.146	119	1022311	12.724	ppbV	99
107) 1,2-dichlorobenzene	8.178	146	510282	11.541	ppbV	98
108) n-butylbenzene	8.385	91	903904	12.865	ppbV	97
109) indan	8.226	117	659632	11.730	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default - All compounds listed

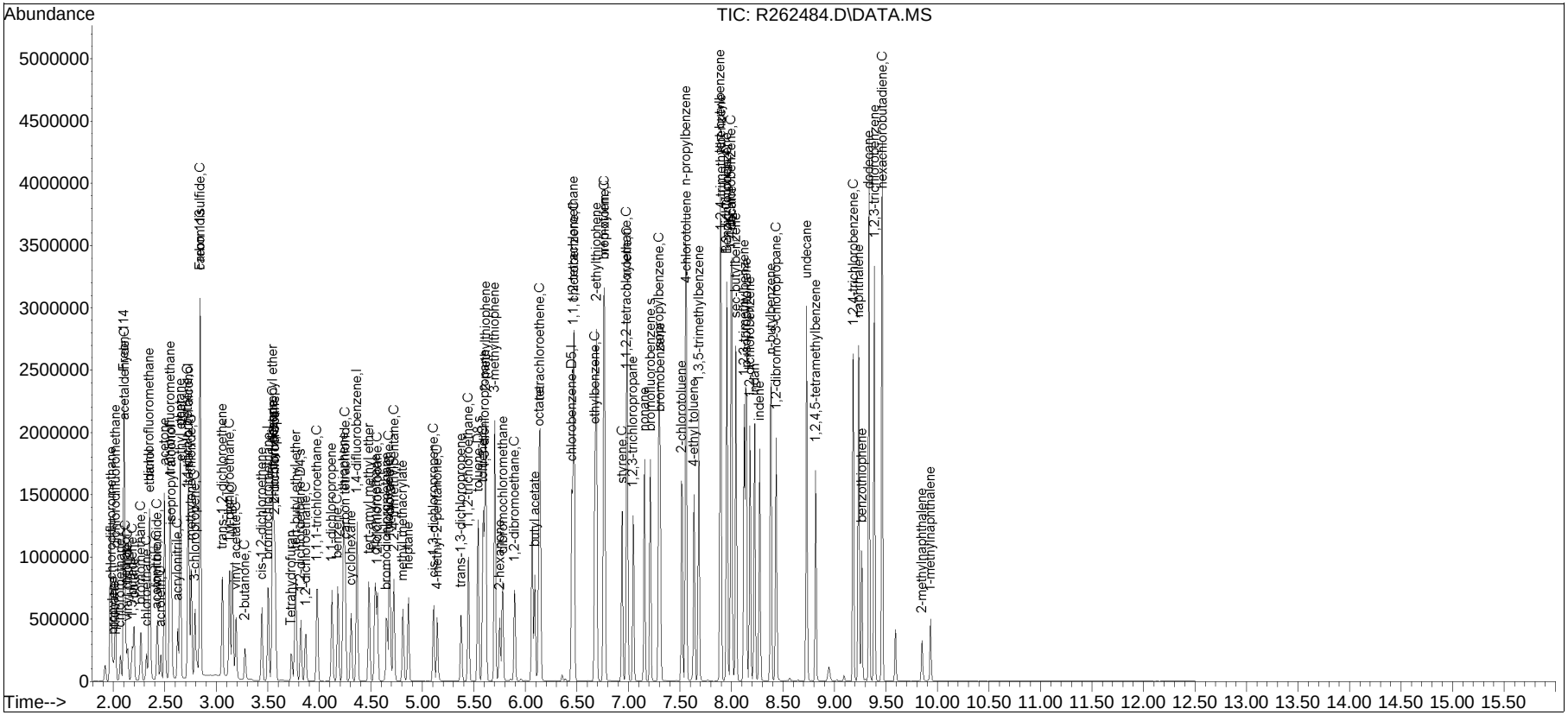
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	554918	12.388	ppbV	99
111) 1,2-dibromo-3-chloropr...	8.433	75	240528	11.881	ppbV	97
112) undecane	8.729	57	493598	12.072	ppbV	98
113) 1,2,4,5-tetramethylben...	8.816	119	486775	16.344	ppbV	98
114) dodecane	9.335	57	663008	14.579	ppbV	98
115) 1,2,4-trichlorobenzene	9.183	180	491540	11.817	ppbV	95
116) naphthalene	9.236	128	1232300	14.141	ppbV	99
117) 1,2,3-trichlorobenzene	9.388	180	575776	13.557	ppbV	99
118) benzothiophene	9.265	134	410569	10.098	ppbV	98
119) hexachlorobutadiene	9.464	225	432961	11.801	ppbV	98
120) 2-methylnaphthalene	9.850	142	81053	10.513	ppbV	97
121) 1-methylnaphthalene	9.932	142	124449	11.857	ppbV	97

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

Sub List : Default - All compounds listed3\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262484.D
Acq On : 27 Mar 2025 11:44 am
Operator : AIRLAB26:TPH
Sample : WG2046188-2,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 27 14:47:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

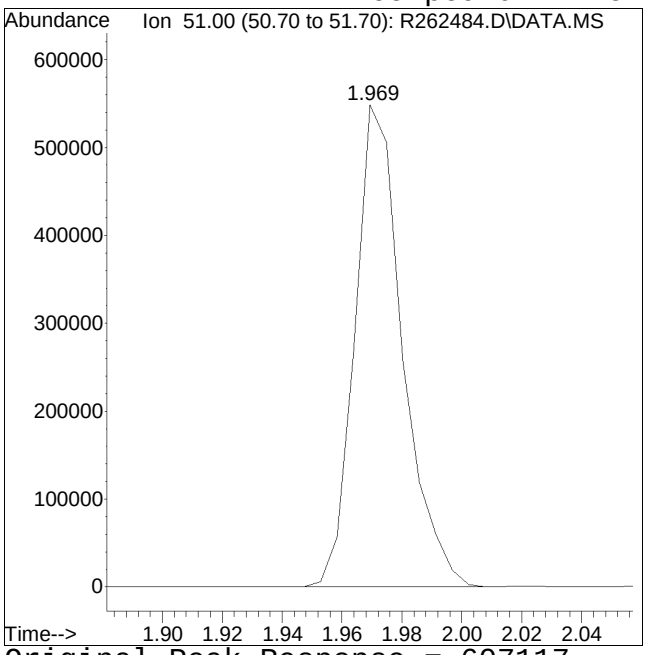


Manual Integration Report

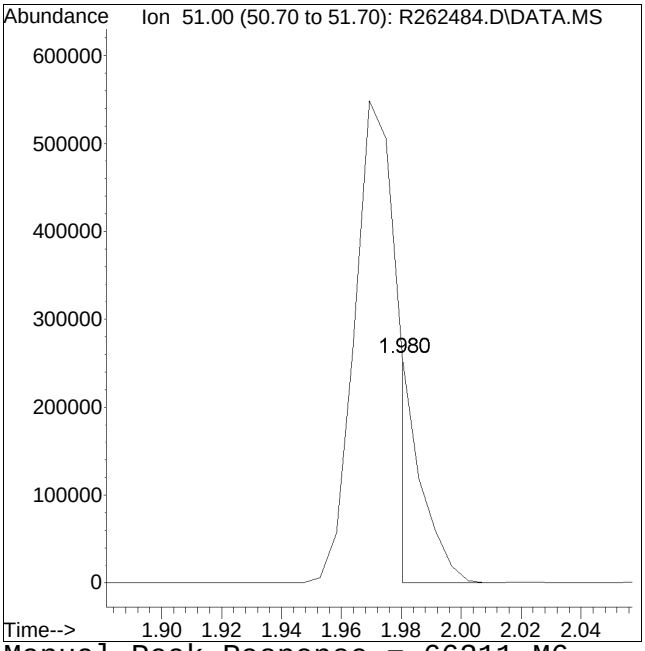
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262484.D
Date Inj'd : 3/27/2025 11:44 am
Sample : WG2046188-2,3,250,250

Method : TFS26_250314.M
Operator : AIRLAB26:TPH
Instrument : Airlab26
Quant Date : 3/27/2025 2:47 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 607117



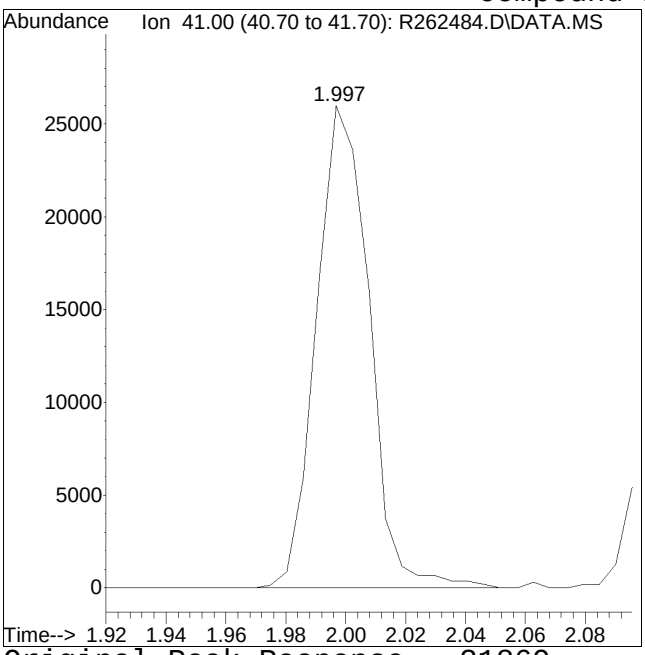
Manual Peak Response = 66211 M6

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

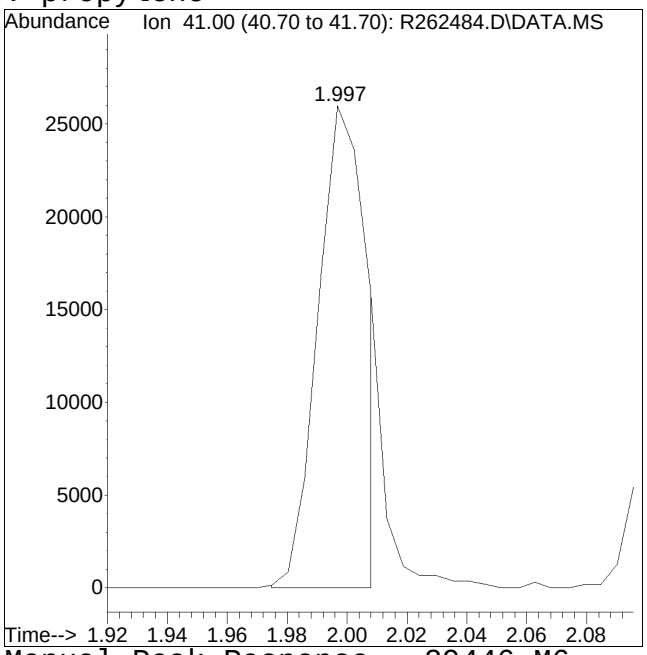
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262484.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 11:44 am Instrument : Airlab26
Sample : WG2046188-2,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #3: propylene



Original Peak Response = 31869



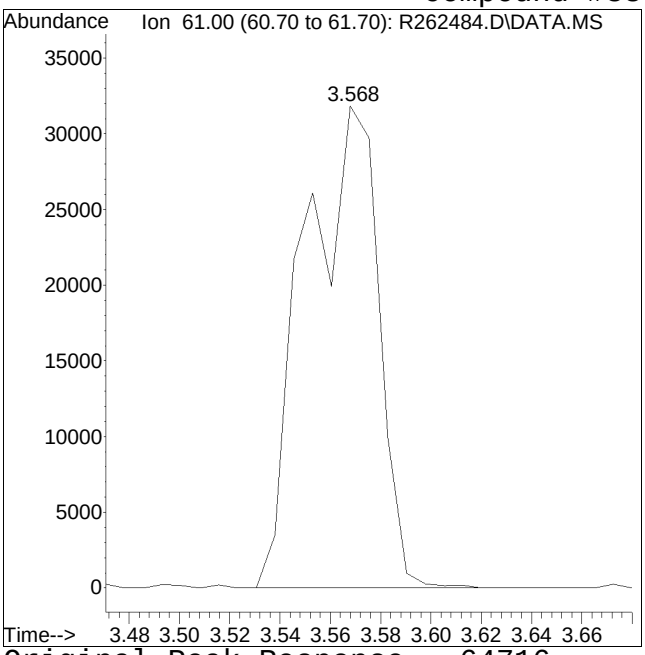
Manual Peak Response = 29446 M6

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

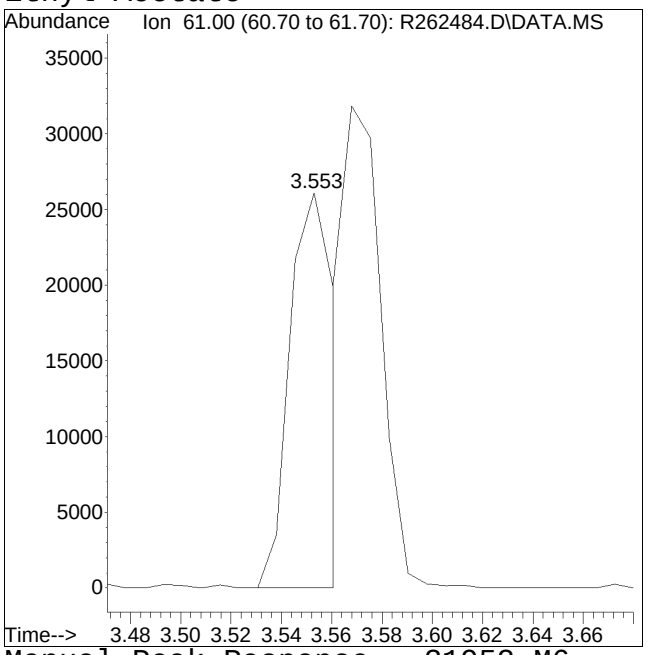
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262484.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 11:44 am Instrument : Airlab26
Sample : WG2046188-2,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #38: Ethyl Acetate



Original Peak Response = 64716



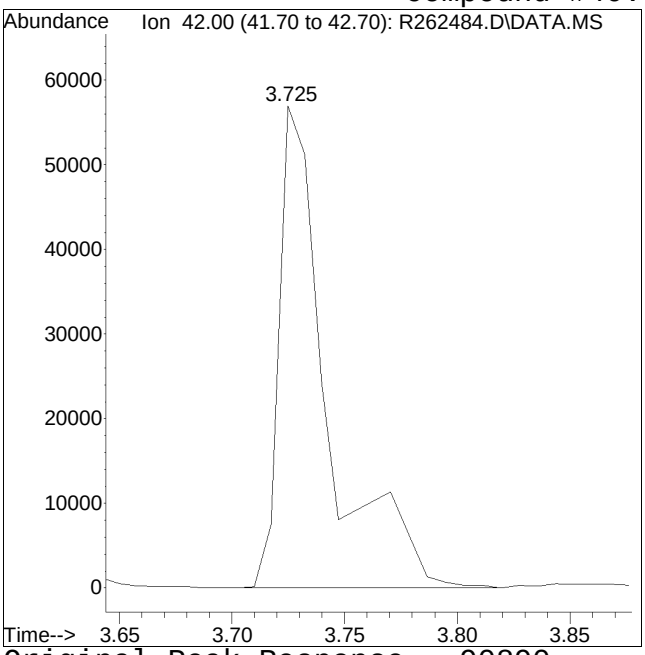
Manual Peak Response = 31952 M6

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

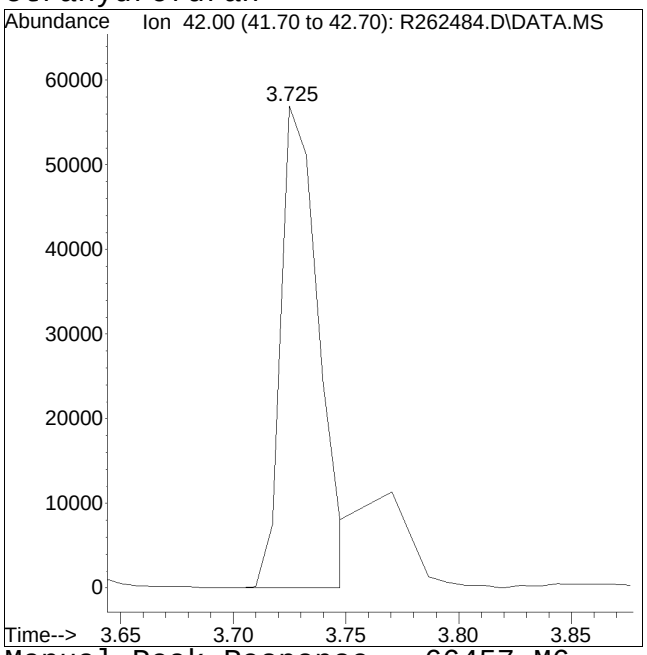
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262484.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 11:44 am Instrument : Airlab26
Sample : WG2046188-2,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 90890



Manual Peak Response = 66457 M6

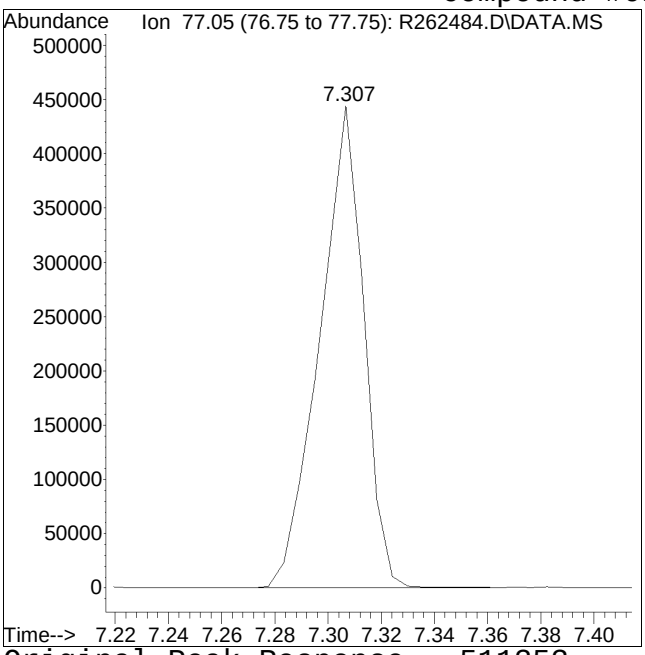
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

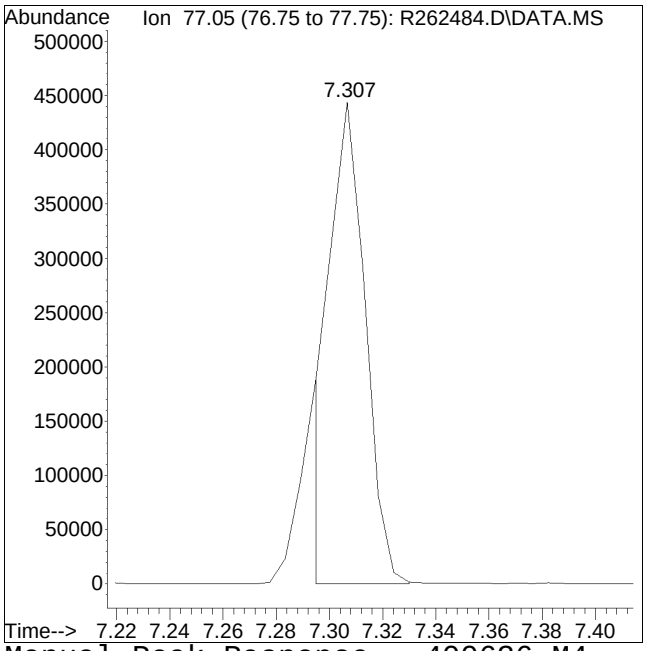
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262484.D
Date Inj'd : 3/27/2025 11:44 am
Sample : WG2046188-2,3,250,250

Method : TFS26_250314.M
Operator : AIRLAB26:TPH
Instrument : Airlab26
Quant Date : 3/27/2025 2:47 pm

Compound #92: bromobenzene



Original Peak Response = 511353



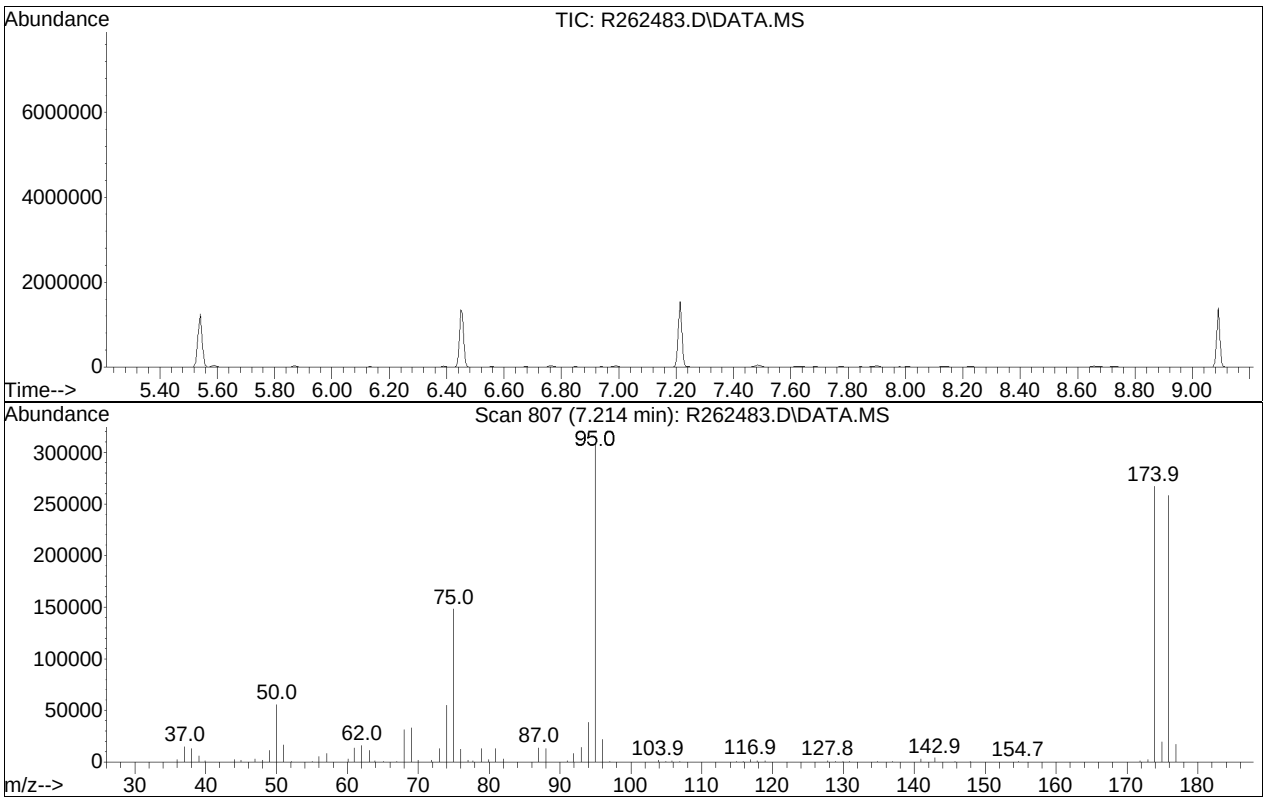
Manual Peak Response = 400636 M4

M4 = Poor automated baseline construction.

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262483.D
Acq On : 27 Mar 2025 11:06 am
Operator : AIRLAB26:TPH
Sample : WG2046188-1,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Mar 17 14:24:08 2025



Spectrum Information: Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	55864	PASS
75	95	30	66	47.9	148224	PASS
95	95	100	100	100.0	309376	PASS
96	95	5	9	7.1	21960	PASS
173	174	0.00	2	1.0	2751	PASS
174	95	50	120	86.3	267072	PASS
175	174	4	9	7.5	19952	PASS
176	174	93	101	96.8	258496	PASS
177	176	5	9	6.5	16928	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262487.D
Acq On : 27 Mar 2025 03:04 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-4,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 06:41:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.501	49	187379	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 106.97%			
43) 1,4-difluorobenzene	4.365	114	617292	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 100.78%			
67) chlorobenzene-D5	6.449	54	89857	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 94.95%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	2.079		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	2.200		0	N.D.		
13) bromomethane	2.255		0	N.D.		
14) chloroethane	2.359		0	N.D.		
15) ethanol	2.359	31	4680	0.552	ppbV	88
17) vinyl bromide	2.387		0	N.D.		
19) acetone	2.505	43	3028	0.136	ppbV #	95
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	2.573	45	3595	0.135	ppbV	98
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	2.755		0	N.D.		
28) methylene chloride	2.760	49	865	0.036	ppbV #	71
29) 3-chloropropene	2.784		0	N.D.		
30) carbon disulfide	2.841		0	N.D.		
31) Freon 113	2.746		0	N.D.		
32) trans-1,2-dichloroethene	3.089		0	N.D.		
33) 1,1-dichloroethane	3.142		0	N.D.		
34) MTBE	3.168		0	N.D.		
36) 2-butanone	3.275		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	3.501		0	N.D.		
40) Tetrahydrofuran	3.819		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262487.D
Acq On : 27 Mar 2025 03:04 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-4,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 06:41:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.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	4.714		0	N.D.		
62) heptane	4.705		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.190		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	5.597		0	N.D.		
72) 2-hexanone	5.796		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	6.476		0	N.D.		
81) ethylbenzene	6.673		0	N.D.		
83) m+p-xylene	6.777		0	N.D.		
84) bromoform	6.771		0	N.D.		
85) styrene	6.946		0	N.D.		
86) 1,1,2,2-tetrachloroethane	6.992		0	N.D.		
87) o-xylene	0.000		0	N.D.		
96) 4-ethyl toluene	7.651		0	N.D.		
97) 1,3,5-trimethylbenzene	7.651		0	N.D.		
99) 1,2,4-trimethylbenzene	7.898		0	N.D.		
101) Benzyl Chloride	7.970		0	N.D.		
102) 1,3-dichlorobenzene	7.970		0	N.D.		
103) 1,4-dichlorobenzene	8.010		0	N.D.		
107) 1,2-dichlorobenzene	8.186		0	N.D.		
115) 1,2,4-trichlorobenzene	9.189		0	N.D.		
116) naphthalene	9.248	128	3010	0.036	ppbV	96
119) hexachlorobutadiene	9.470		0	N.D.		

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

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262487.D
Acq On : 27 Mar 2025 03:04 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-4,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 06:41:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

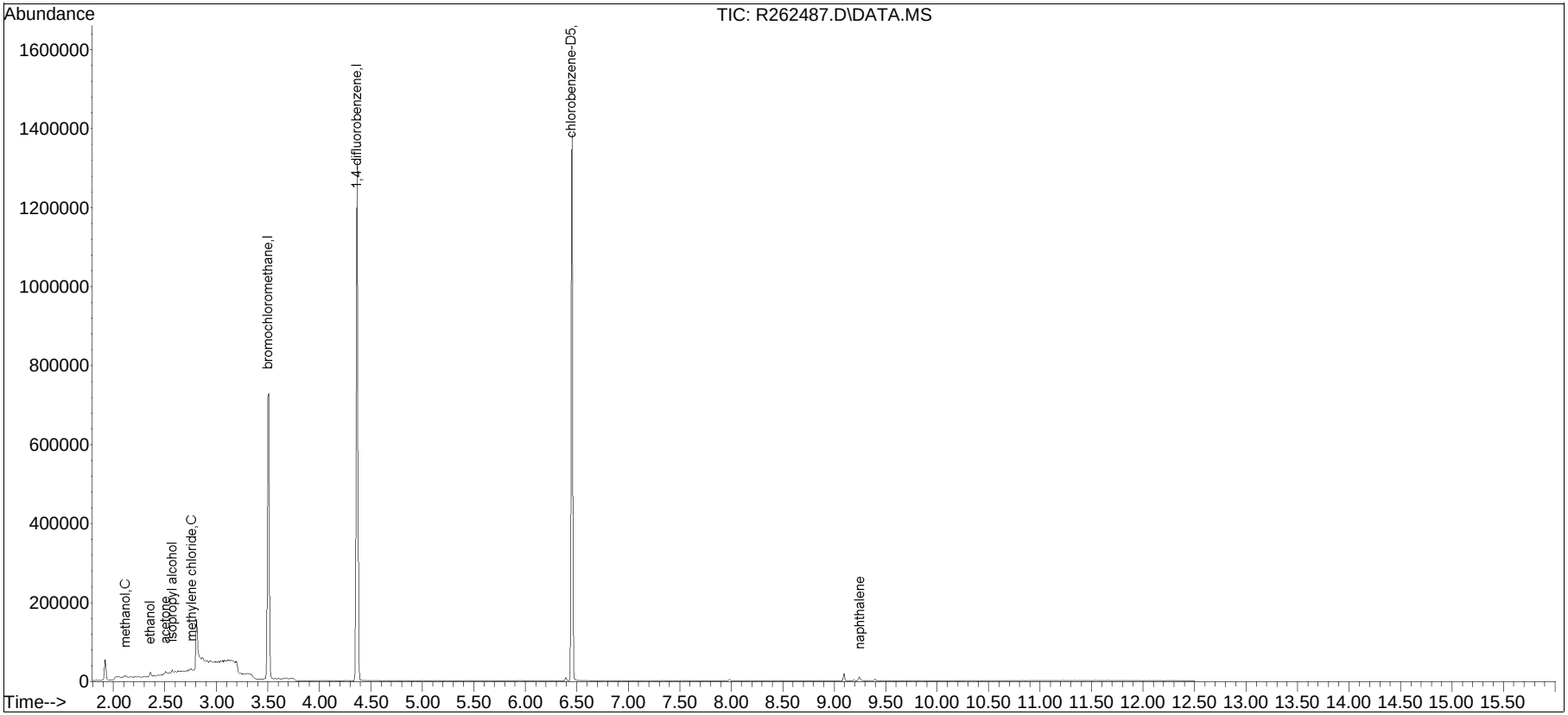
CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default-LCS-AP2 - All compounds listed

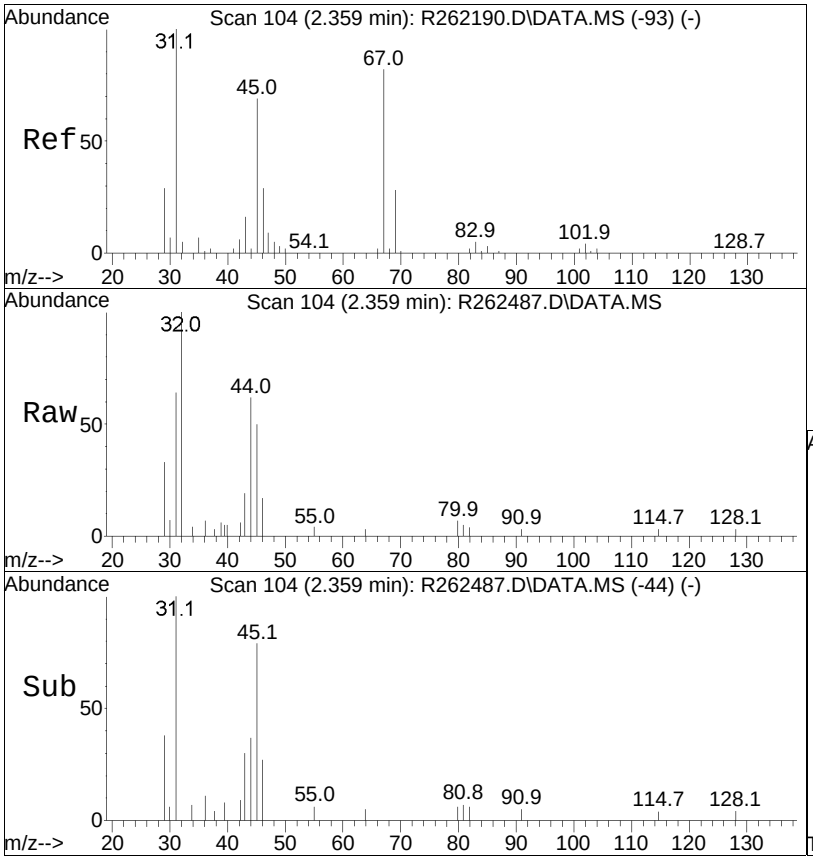
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listedR262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262487.D
Acq On : 27 Mar 2025 03:04 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-4,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 06:41:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

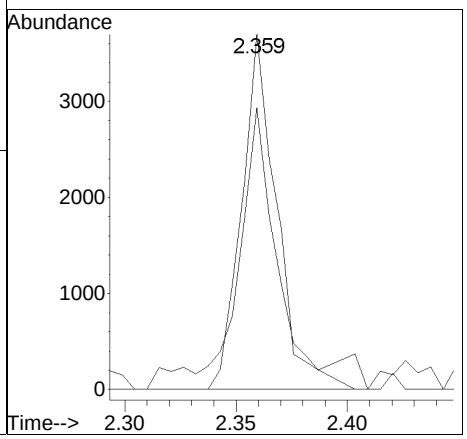


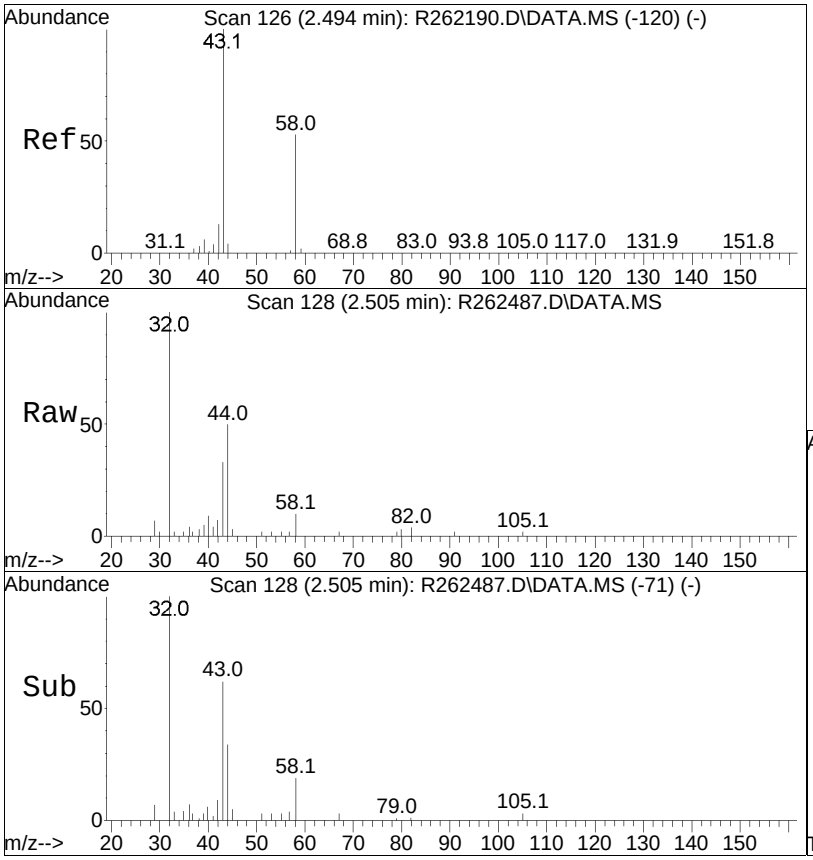


#15
ethanol
Concen: 0.55 ppbV
RT: 2.359 min Scan# 104
Delta R.T. -0.000 min
Lab File: R262487.D
Acq: 27 Mar 2025 03:04 pm

Tgt Ion: 31 Resp: 4680

Ion	Ratio	Lower	Upper
31	100		
45	79.3	55.4	83.2

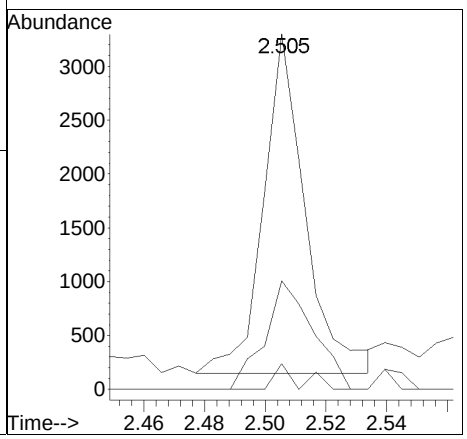


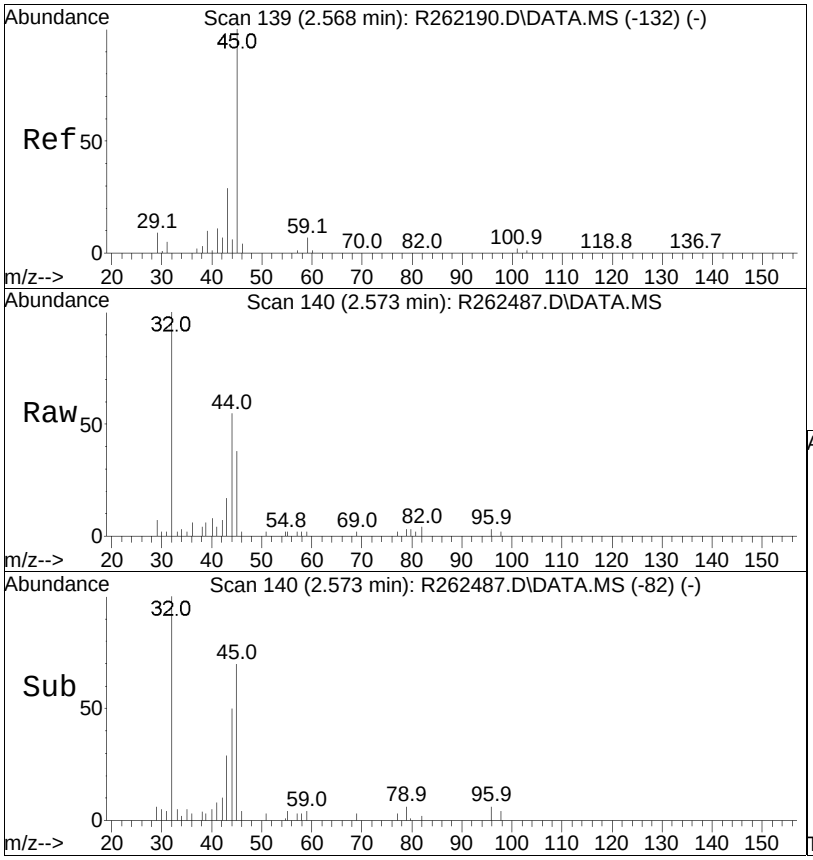


#19
acetone
Concen: 0.14 ppbV
RT: 2.505 min Scan# 128
Delta R.T. -0.000 min
Lab File: R262487.D
Acq: 27 Mar 2025 03:04 pm

Tgt Ion: 43 Resp: 3028

Ion	Ratio	Lower	Upper
43	100		
58	30.6	26.7	40.1
57	7.3	0.7	1.1#

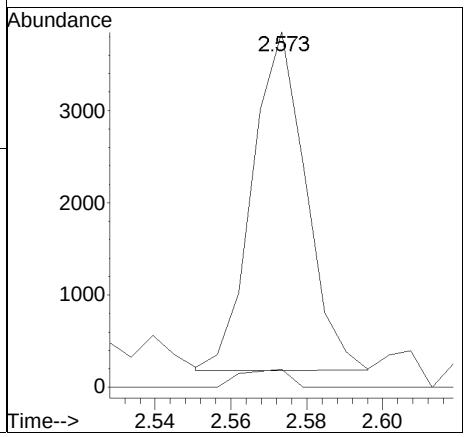


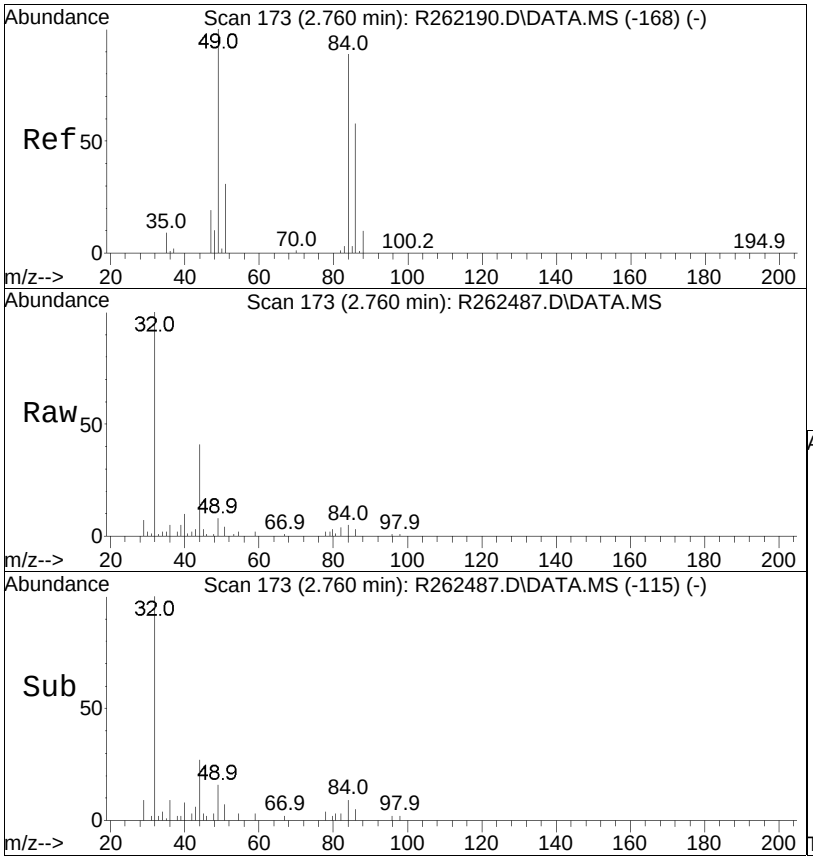


#22
isopropyl alcohol
Concen: 0.13 ppbV
RT: 2.573 min Scan# 140
Delta R.T. 0.006 min
Lab File: R262487.D
Acq: 27 Mar 2025 03:04 pm

Tgt Ion: 45 Resp: 3595

Ion	Ratio	Lower	Upper
45	100		
59	5.1	3.5	5.3

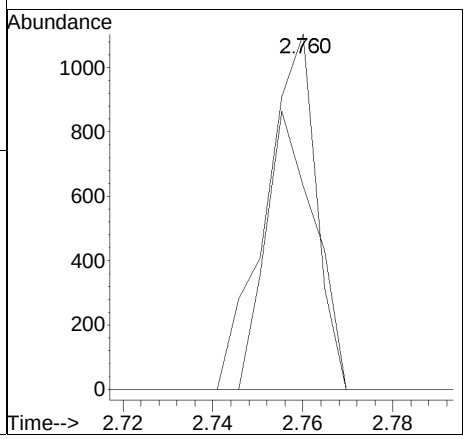


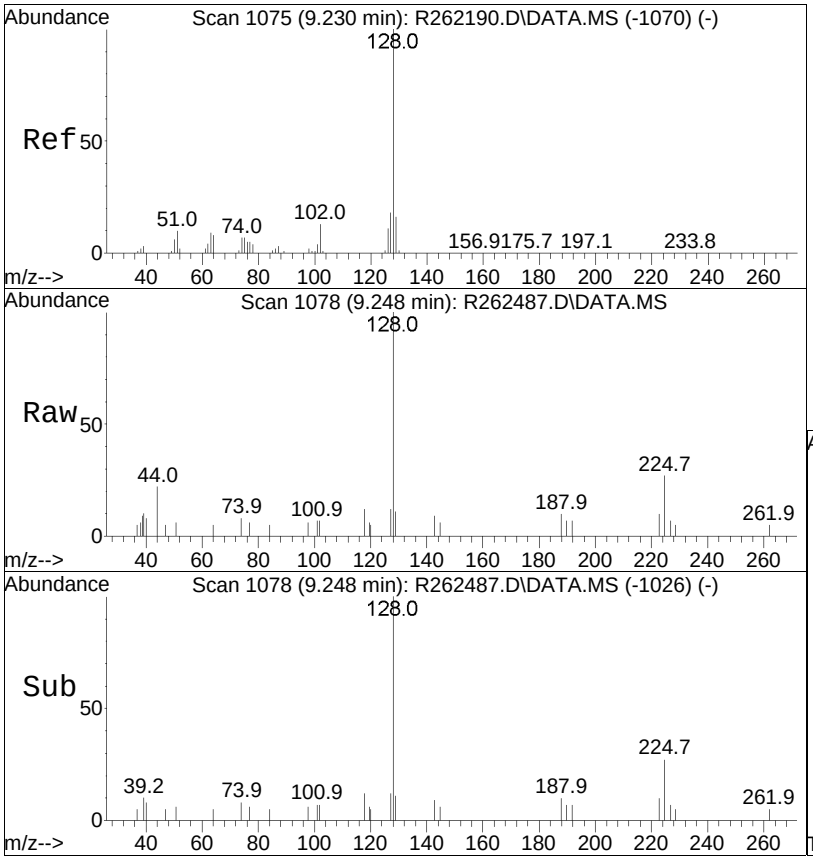


#28
methylene chloride
Concen: 0.04 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R262487.D
Acq: 27 Mar 2025 03:04 pm

Tgt Ion: 49 Resp: 865

Ion	Ratio	Lower	Upper
49	100		
84	57.2	67.1	100.7#

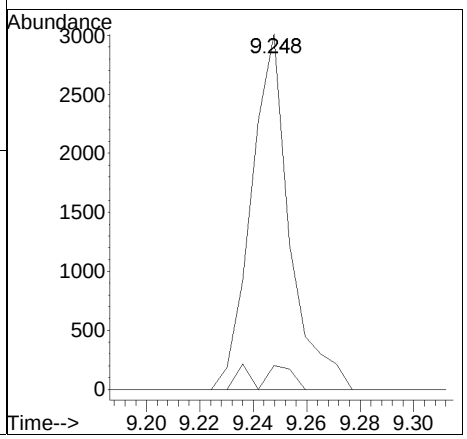




#116
naphthalene
Concen: 0.04 ppbV
RT: 9.248 min Scan# 1078
Delta R.T. 0.012 min
Lab File: R262487.D
Acq: 27 Mar 2025 03:04 pm

Tgt Ion:128 Resp: 3010

Ion	Ratio	Lower	Upper
128	100		
102	6.7	6.4	9.6



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TFS26_250314.M
Data File	: R262487.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 3:04 pm	Instrument	: Airlab26
Sample	: WG2046188-4,3,250,250	Quant Date	: 3/28/2025 6:41 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	72	0.00
2		chlorodifluoromethane	10.000	15.409	-54.1#	85	0.01
3		propylene	10.000	10.410	-4.1	97	0.00
4		propane	10.000	12.224	-22.2	89	0.00
5		dichlorodifluoromethane	10.000	12.224	-22.2	85	0.00
6	C	chloromethane	10.000	11.039	-10.4	77	0.00
7		Freon-114	10.000	12.107	-21.1	84	0.00
8	C	methanol	50.000	65.281	-30.6#	90	0.00
9	C	vinyl chloride	10.000	11.059	-10.6	79	0.00
10	C	1,3-butadiene	10.000	12.498	-25.0	108	0.00
11		butane	10.000	10.133	-1.3	74	0.00
13	C	bromomethane	10.000	11.807	-18.1	85	0.00
14	C	chloroethane	10.000	11.063	-10.6	81	0.00
15		ethanol	50.000	41.213	17.6	65	0.00
16		dichlorofluoromethane	10.000	10.165	-1.6	72	0.00
17	C	vinyl bromide	10.000	11.026	-10.3	92	0.00
18	C	acrolein	10.000	9.086	9.1	67	0.00
19		acetone	50.000	58.035	-16.1	99	0.00
20	C	acetonitrile	10.000	8.151	18.5	59	0.00
21		trichlorofluoromethane	10.000	10.550	-5.5	73	0.00
22		isopropyl alcohol	25.000	21.694	13.2	80	0.00
23	C	acrylonitrile	10.000	10.004	-0.0	70	0.00
24		pentane	10.000	9.981	0.2	69	0.00
25		ethyl ether	10.000	10.277	-2.8	79	0.00
26	C	1,1-dichloroethene	10.000	9.677	3.2	68	0.00
27		tertiary butyl alcohol	10.000	9.199	8.0	68	0.00
28	C	methylene chloride	10.000	11.179	-11.8	78	0.00
29	C	3-chloropropene	10.000	12.068	-20.7	105	0.00
30	C	carbon disulfide	10.000	12.472	-24.7	107	0.00
31		Freon 113	10.000	11.269	-12.7	78	0.00
32		trans-1,2-dichloroethene	10.000	12.329	-23.3	105	0.00
33	C	1,1-dichloroethane	10.000	11.281	-12.8	78	0.00
34	C	MTBE	10.000	12.096	-21.0	104	0.00
35	C	vinyl acetate	10.000	8.146	18.5	73	0.00
36	C	2-butanone	10.000	10.987	-9.9	102	0.00
37		cis-1,2-dichloroethene	10.000	10.662	-6.6	75	0.00
38		Ethyl Acetate	10.000	9.482	5.2	78	0.00
39	C	chloroform	10.000	10.942	-9.4	77	0.00
40		Tetrahydrofuran	10.000	12.032	-20.3	115	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	10.306	-3.1	72	0.00
42	C	1,2-dichloroethane	10.000	10.458	-4.6	75	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	72	0.00
44	C	hexane	10.000	12.007	-20.1	108	0.00
45		diisopropyl ether	10.000	10.268	-2.7	74	0.00
46		tert-butyl ethyl ether	10.000	9.863	1.4	70	0.00
48	C	1,1,1-trichloroethane	10.000	10.232	-2.3	75	0.00
49		1,1-dichloropropene	10.000	9.544	4.6	64	0.00
50	C	benzene	10.000	10.785	-7.9	77	0.00
52	C	carbon tetrachloride	10.000	10.727	-7.3	75	0.00
53		cyclohexane	10.000	11.717	-17.2	103	0.00
54		tert-amyl methyl ether	10.000	10.025	-0.3	72	0.00
55		dibromomethane	10.000	9.981	0.2	72	0.00
56	C	1,2-dichloropropane	10.000	10.533	-5.3	75	0.00
57		bromodichloromethane	10.000	12.343	-23.4	108	0.00
58	C	1,4-dioxane	10.000	11.326	-13.3	106	0.00
59	C	trichloroethene	10.000	10.668	-6.7	74	0.00
60	C	2,2,4-trimethylpentane	10.000	12.511	-25.1	107	0.00
61		methyl methacrylate	10.000	9.542	4.6	68	0.00
62		heptane	10.000	12.413	-24.1	107	0.00
63	C	cis-1,3-dichloropropene	10.000	11.542	-15.4	81	0.00
64	C	4-methyl-2-pentanone	10.000	12.291	-22.9	105	0.00
65		trans-1,3-dichloropropene	10.000	12.605	-26.1	87	0.00
66	C	1,1,2-trichloroethane	10.000	11.100	-11.0	76	0.00
67	I	chlorobenzene-D5	10.000	10.000	0.0	68	0.00
68	C	toluene	10.000	11.742	-17.4	75	0.00
71		1,3-dichloropropane	10.000	10.583	-5.8	69	0.00
72		2-hexanone	10.000	12.614	-26.1	95	0.00
74		dibromochloromethane	10.000	13.814	-38.1#	110	0.00
75	C	1,2-dibromoethane	10.000	12.325	-23.2	79	0.00
76		butyl acetate	10.000	10.982	-9.8	70	0.00
77		octane	10.000	10.772	-7.7	70	0.00
78	C	tetrachloroethene	10.000	11.827	-18.3	75	0.00
79		1,1,1,2-tetrachloroethane	10.000	10.713	-7.1	72	0.00
80	C	chlorobenzene	10.000	11.465	-14.6	74	0.00
81	C	ethylbenzene	10.000	11.879	-18.8	72	0.00
83	C	m+p-xylene	20.000	25.042	-25.2	76	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
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	14.008	-40.1#	112	0.00
85	C	styrene	10.000	12.159	-21.6	73	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	12.178	-21.8	77	0.00
87	C	o-xylene	10.000	12.153	-21.5	75	0.00
88		1,2,3-trichloropropane	10.000	11.174	-11.7	72	0.00
89		nonane	10.000	11.167	-11.7	70	0.00
91	C	isopropylbenzene	10.000	11.693	-16.9	71	0.00
92		bromobenzene	10.000	10.817	-8.2	69	0.00
93		2-chlorotoluene	10.000	10.908	-9.1	70	0.00
94		n-propylbenzene	10.000	10.924	-9.2	70	0.00
95		4-chlorotoluene	10.000	10.623	-6.2	67	0.00
96		4-ethyl toluene	10.000	14.114	-41.1#	102	0.00
97		1,3,5-trimethylbenzene	10.000	12.917	-29.2	75	0.00
98		tert-butylbenzene	10.000	11.871	-18.7	71	0.00
99		1,2,4-trimethylbenzene	10.000	12.782	-27.8	75	0.00
100		decane	10.000	11.283	-12.8	70	0.00
101	C	Benzyl Chloride	10.000	13.219	-32.2#	99	0.00
102		1,3-dichlorobenzene	10.000	12.481	-24.8	76	0.00
103	C	1,4-dichlorobenzene	10.000	12.638	-26.4	79	0.00
104		sec-butylbenzene	10.000	12.068	-20.7	71	0.00
106		p-isopropyltoluene	10.000	11.865	-18.7	69	0.00
107		1,2-dichlorobenzene	10.000	12.426	-24.3	74	0.00
108		n-butylbenzene	10.000	12.436	-24.4	71	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	10.885	-8.8	68	0.00
112		undecane	10.000	11.310	-13.1	67	0.00
114		dodecane	10.000	13.323	-33.2#	68	0.00
115	C	1,2,4-trichlorobenzene	10.000	11.571	-15.7	68	0.00
116		naphthalene	10.000	12.579	-25.8	66	0.00
117		1,2,3-trichlorobenzene	10.000	12.971	-29.7	70	0.00
119	C	hexachlorobutadiene	10.000	10.845	-8.5	65	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 : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	184924	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 105.57%			
43) 1,4-difluorobenzene	4.365	114	652322	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 106.50%			
67) chlorobenzene-D5	6.450	54	96979	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 102.47%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.030	85	400702	12.224	ppbV	100
6) chloromethane	2.079	50	125892	11.039	ppbV	100
7) Freon-114	2.112	85	530425	12.107	ppbV	96
9) vinyl chloride	2.145	62	162921	11.059	ppbV	99
10) 1,3-butadiene	2.189	54	109265	12.498	ppbV	93
13) bromomethane	2.277	94	183002	11.807	ppbV	98
14) chloroethane	2.332	64	94645	11.063	ppbV	99
15) ethanol	2.359	31	344808	41.213	ppbV	98
17) vinyl bromide	2.437	106	191432	11.026	ppbV	99
19) acetone	2.500	43	1276786	58.035	ppbV	99
21) trichlorofluoromethane	2.556	101	605922	10.550	ppbV	98
22) isopropyl alcohol	2.568	45	571374	21.694	ppbV	99
26) 1,1-dichloroethene	2.731	61	399942	9.677	ppbV	99
27) tertiary butyl alcohol	2.735	59	429723	9.199	ppbV	99
28) methylene chloride	2.759	49	268732	11.179	ppbV	98
29) 3-chloropropene	2.797	41	258988	12.068	ppbV	97
30) carbon disulfide	2.850	76	671135	12.472	ppbV	96
31) Freon 113	2.845	101	545313	11.269	ppbV	95
32) trans-1,2-dichloroethene	3.062	61	358363	12.329	ppbV	98
33) 1,1-dichloroethane	3.132	63	477845	11.281	ppbV	98
34) MTBE	3.159	73	668956	12.096	ppbV	99
36) 2-butanone	3.279	43	224499M4	10.987	ppbV	
37) cis-1,2-dichloroethene	3.448	61	190818	10.662	ppbV	97
38) Ethyl Acetate	3.552	61	40081M6	9.482	ppbV	
39) chloroform	3.567	83	338924	10.942	ppbV	99
40) Tetrahydrofuran	3.732	42	117777M6	12.032	ppbV	
42) 1,2-dichloroethane	3.868	62	206869	10.458	ppbV	99
44) hexane	3.545	57	205935	12.007	ppbV	86

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
48) 1,1,1-trichloroethane	3.982	97	336715	10.232	ppbV	100
50) benzene	4.186	78	467672	10.785	ppbV	99
52) carbon tetrachloride	4.252	117	359633	10.727	ppbV	98
53) cyclohexane	4.308	56	201904	11.717	ppbV	96
56) 1,2-dichloropropane	4.563	63	164043	10.533	ppbV	99
57) bromodichloromethane	4.657	83	358918	12.343	ppbV	97
58) 1,4-dioxane	4.685	88	99782	11.326	ppbV	96
59) trichloroethene	4.685	130	235577	10.668	ppbV	97
60) 2,2,4-trimethylpentane	4.723	57	672823	12.511	ppbV	99
62) heptane	4.864	43	208865	12.413	ppbV	96
63) cis-1,3-dichloropropene	5.111	75	274036	11.542	ppbV	98
64) 4-methyl-2-pentanone	5.143	43	288088	12.291	ppbV	97
65) trans-1,3-dichloropropene	5.374	75	239482	12.605	ppbV	99
66) 1,1,2-trichloroethane	5.446	97	212950	11.100	ppbV	98
68) toluene	5.590	91	603908	11.742	ppbV	99
72) 2-hexanone	5.749	43	267571	12.614	ppbV	97
74) dibromochloromethane	5.781	129	399235M3	13.814	ppbV	
75) 1,2-dibromoethane	5.893	107	351513	12.325	ppbV	96
78) tetrachloroethene	6.141	166	326459	11.827	ppbV	98
80) chlorobenzene	6.472	112	493908	11.465	ppbV	98
81) ethylbenzene	6.674	91	768652	11.879	ppbV	99
83) m+p-xylene	6.767	91	1301066	25.042	ppbV	96
84) bromoform	6.761	173	408300	14.008	ppbV	99
85) styrene	6.941	104	464669	12.159	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	497622	12.178	ppbV	99
87) o-xylene	6.987	91	633922	12.153	ppbV	99
96) 4-ethyl toluene	7.636	105	873880M3	14.114	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	754614	12.917	ppbV	100
99) 1,2,4-trimethylbenzene	7.899	105	791240	12.782	ppbV	98
101) Benzyl Chloride	7.955	91	502551M4	13.219	ppbV	
102) 1,3-dichlorobenzene	7.955	146	587270	12.481	ppbV	99
103) 1,4-dichlorobenzene	7.995	146	607165	12.638	ppbV	95
107) 1,2-dichlorobenzene	8.178	146	562982	12.426	ppbV	98
115) 1,2,4-trichlorobenzene	9.184	180	493236	11.571	ppbV	96
116) naphthalene	9.237	128	1123228	12.579	ppbV	100
119) hexachlorobutadiene	9.465	225	407711	10.845	ppbV	100

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

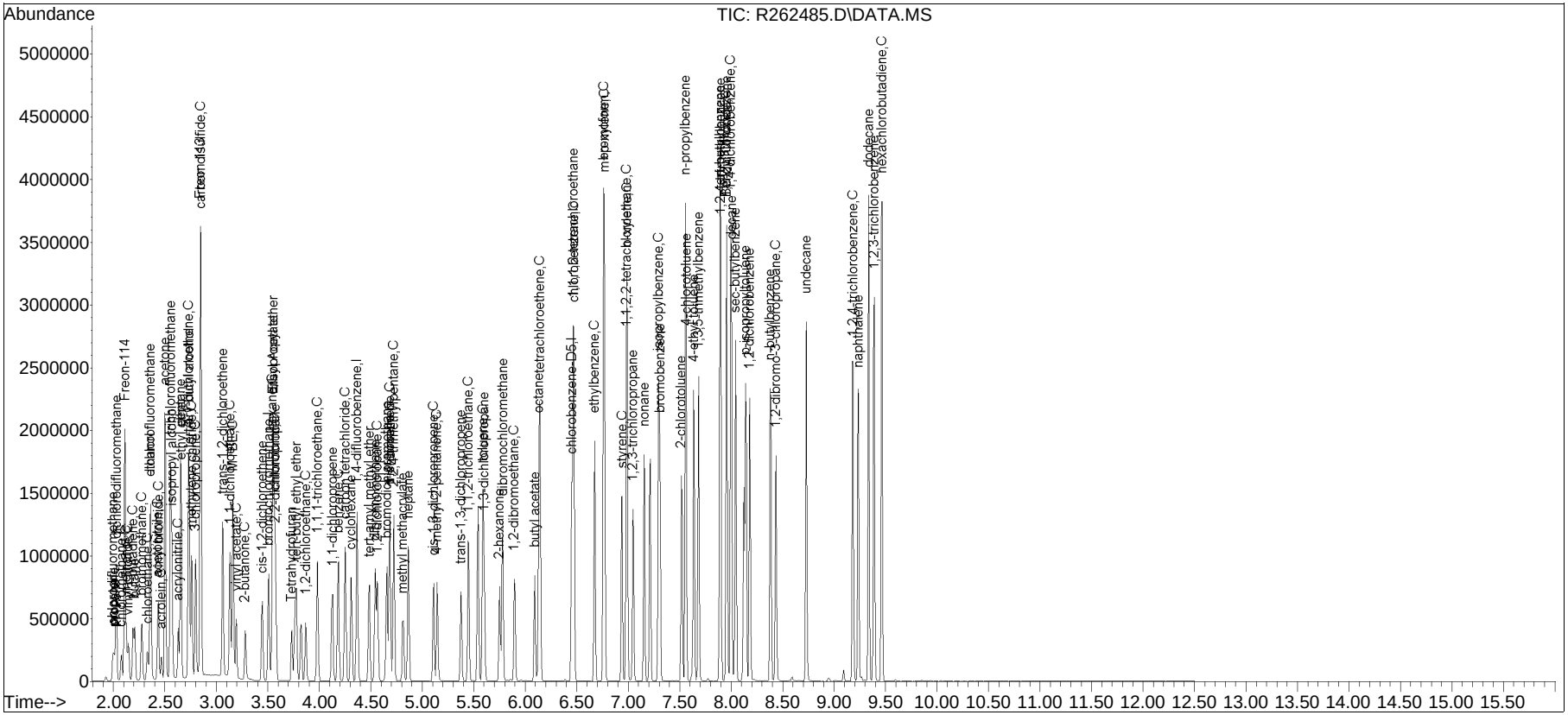
CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : Default-LCS-AP2 - All compounds listed

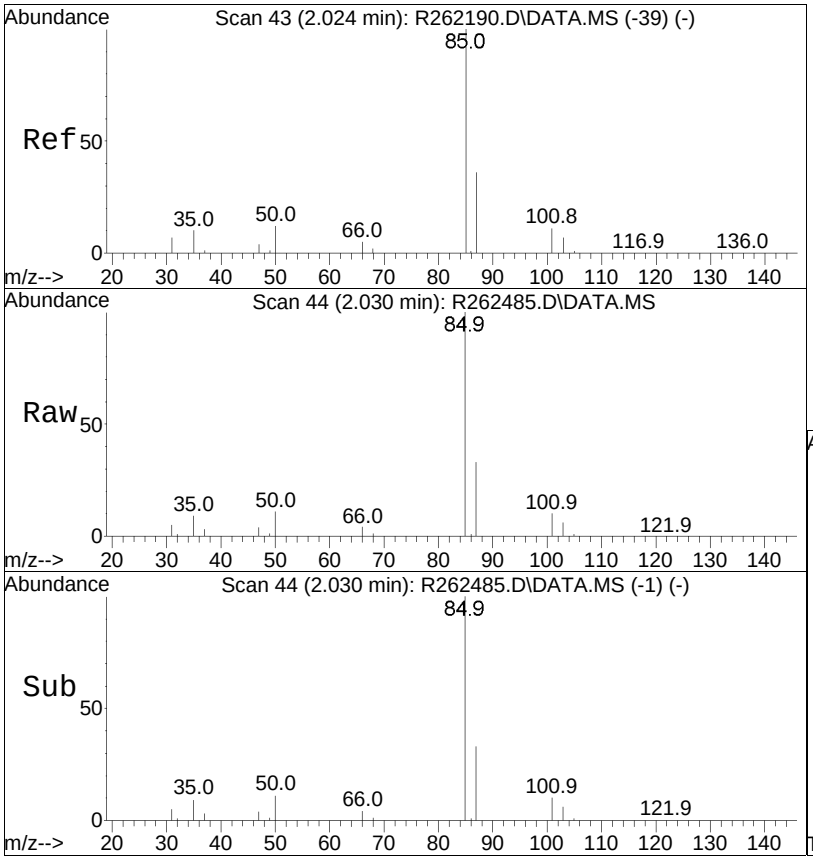
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listedR262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262485.D
Acq On : 27 Mar 2025 12:22 pm
Operator : AIRLAB26:TPH
Sample : WG2046188-3,3,250,250
Misc : WG2046188,ICAL22092
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:47:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

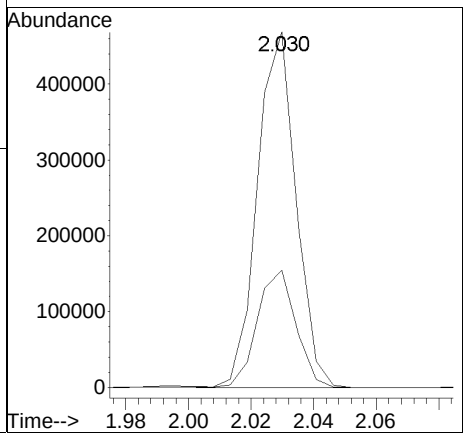


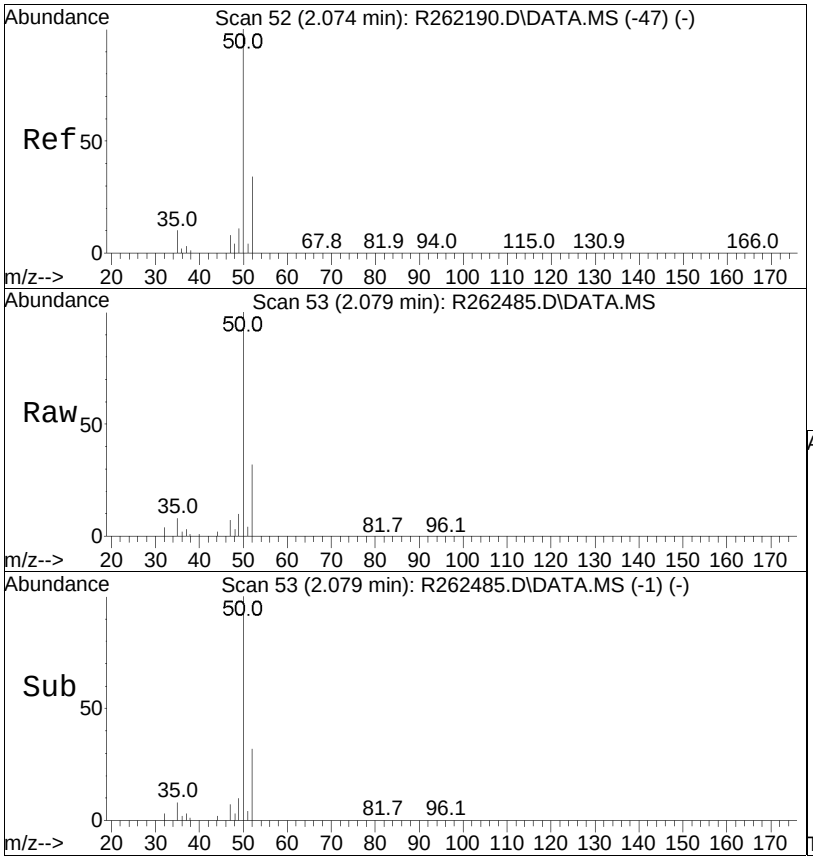


#5
dichlorodifluoromethane
Concen: 12.22 ppbV
RT: 2.030 min Scan# 44
Delta R.T. 0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 85 Resp: 400702

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.4	39.6

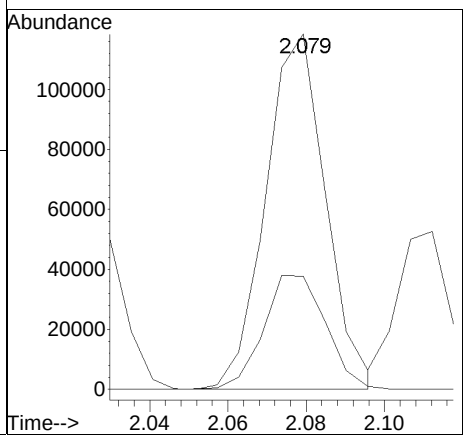


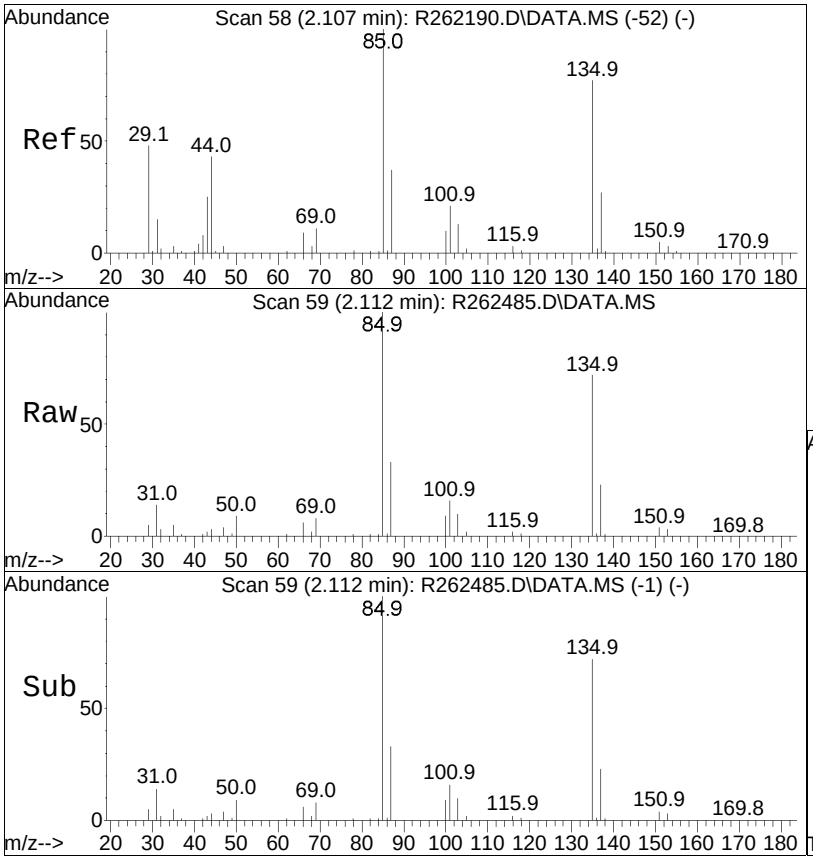


#6
chloromethane
Concen: 11.04 ppbV
RT: 2.079 min Scan# 53
Delta R.T. 0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 50 Resp: 125892

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.6	38.4

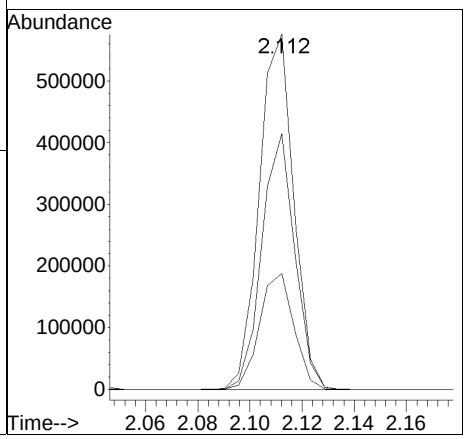


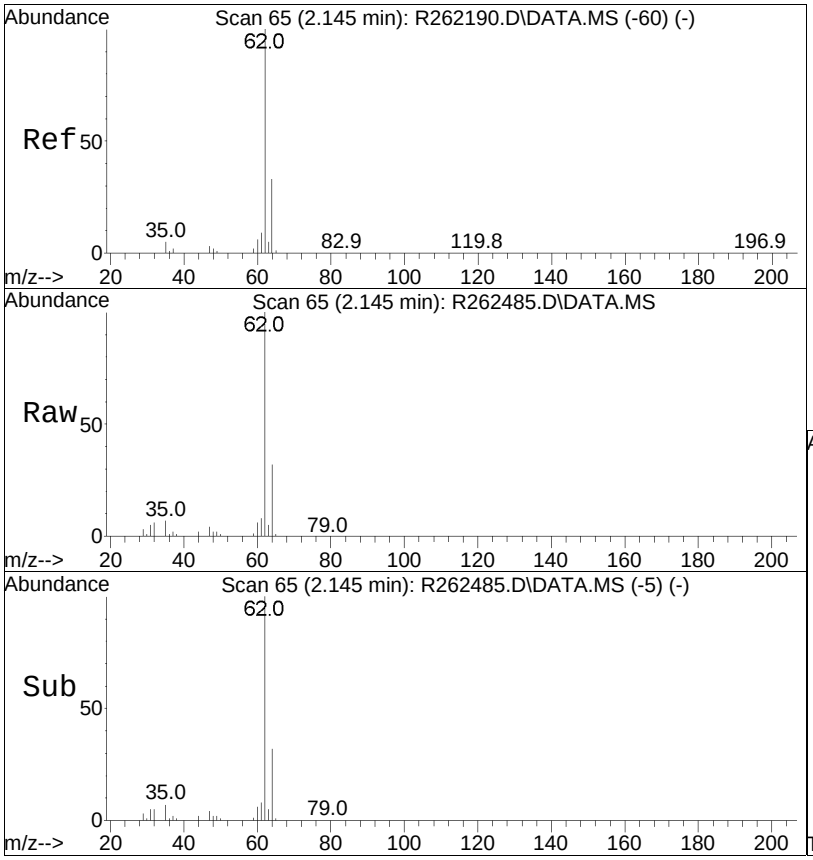


#7
Freon-114
Concen: 12.11 ppbV
RT: 2.112 min Scan# 59
Delta R.T. 0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 85 Resp: 530425

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.6	40.0
135	72.0	54.2	81.2

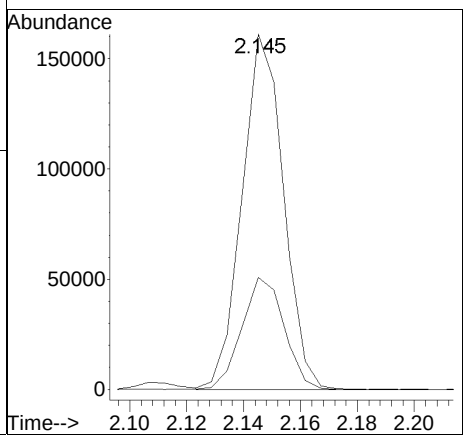


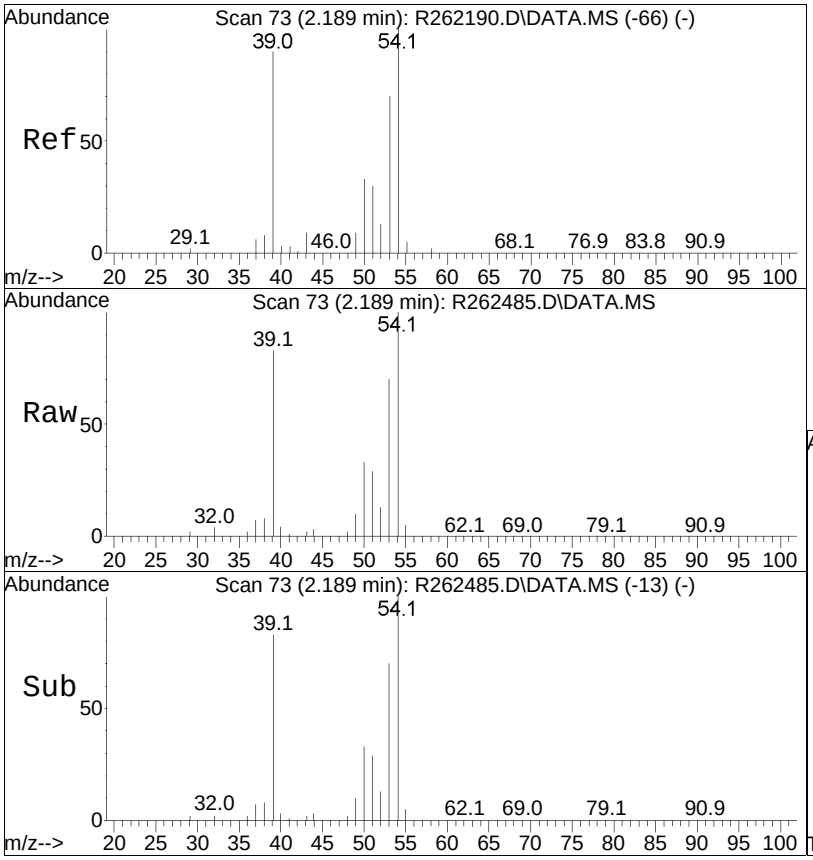


#9
vinyl chloride
Concen: 11.06 ppbV
RT: 2.145 min Scan# 65
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 62 Resp: 162921

Ion	Ratio	Lower	Upper
62	100		
64	31.5	25.5	38.3

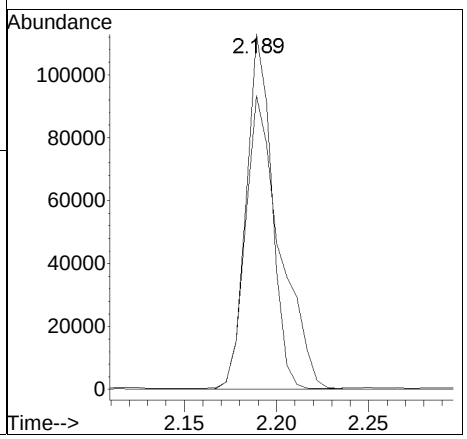


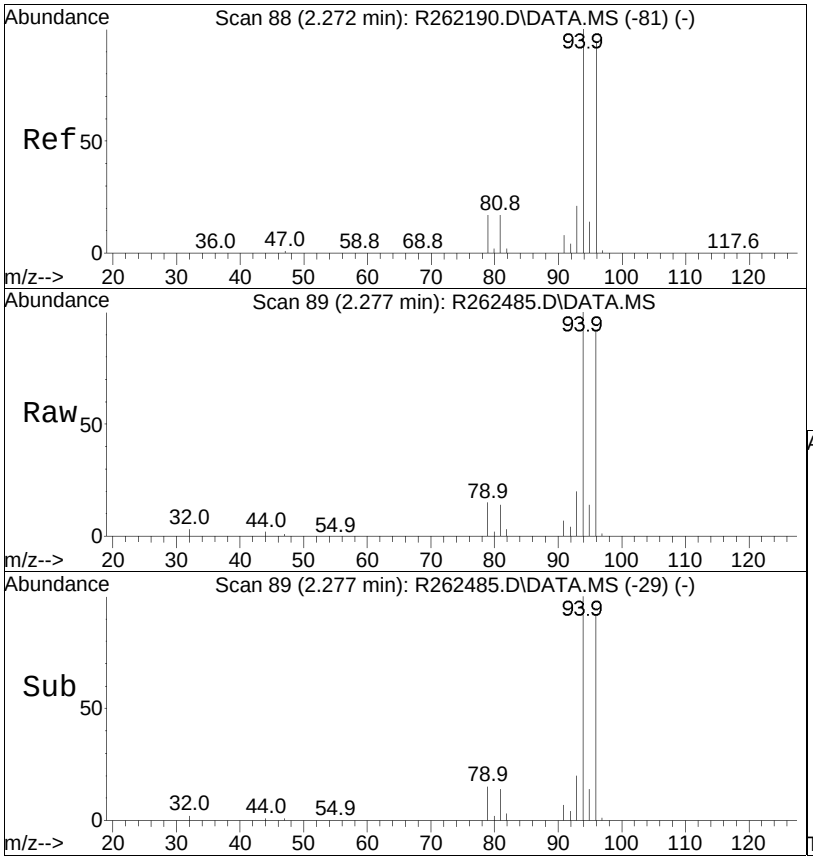


#10
1,3-butadiene
Concen: 12.50 ppbV
RT: 2.189 min Scan# 73
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 54 Resp: 109265

Ion	Ratio	Lower	Upper
54	100		
39	82.7	71.5	107.3

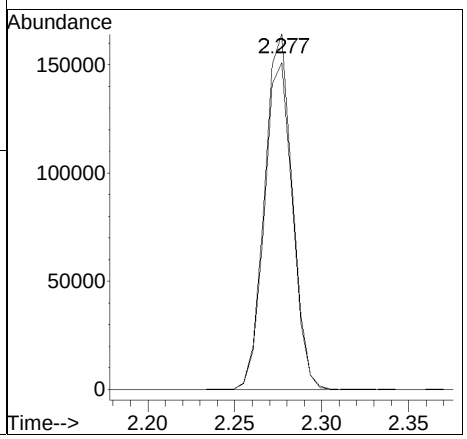


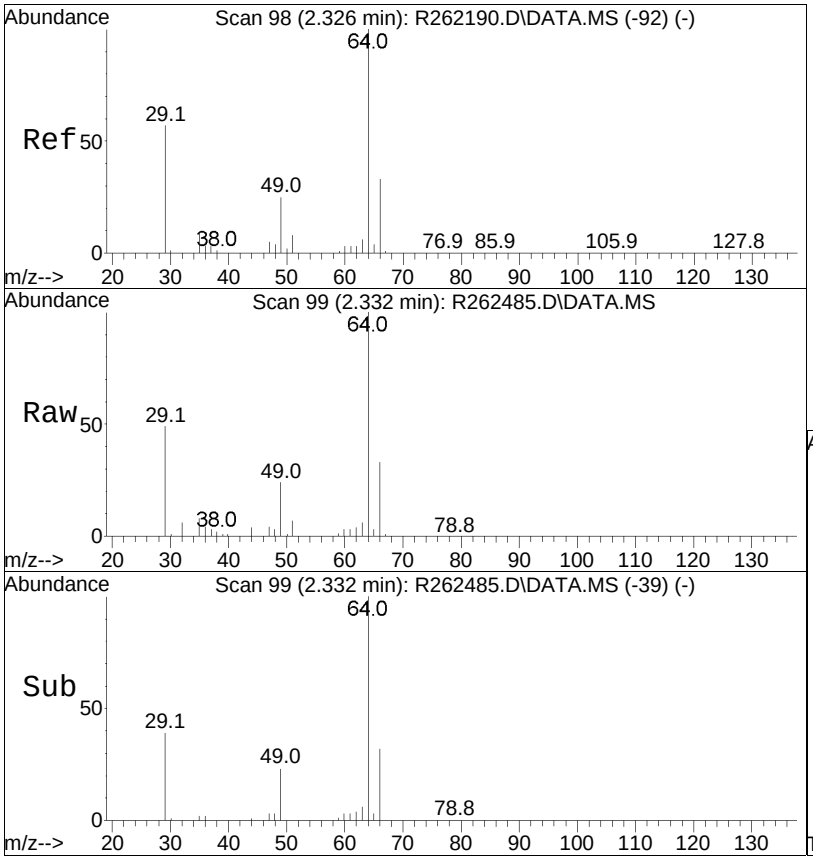


#13
bromomethane
Concen: 11.81 ppbV
RT: 2.277 min Scan# 89
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 94 Resp: 183002

Ion	Ratio	Lower	Upper
94	100		
96	91.9	74.7	112.1

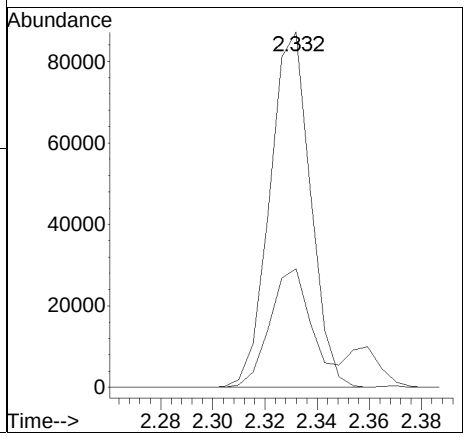


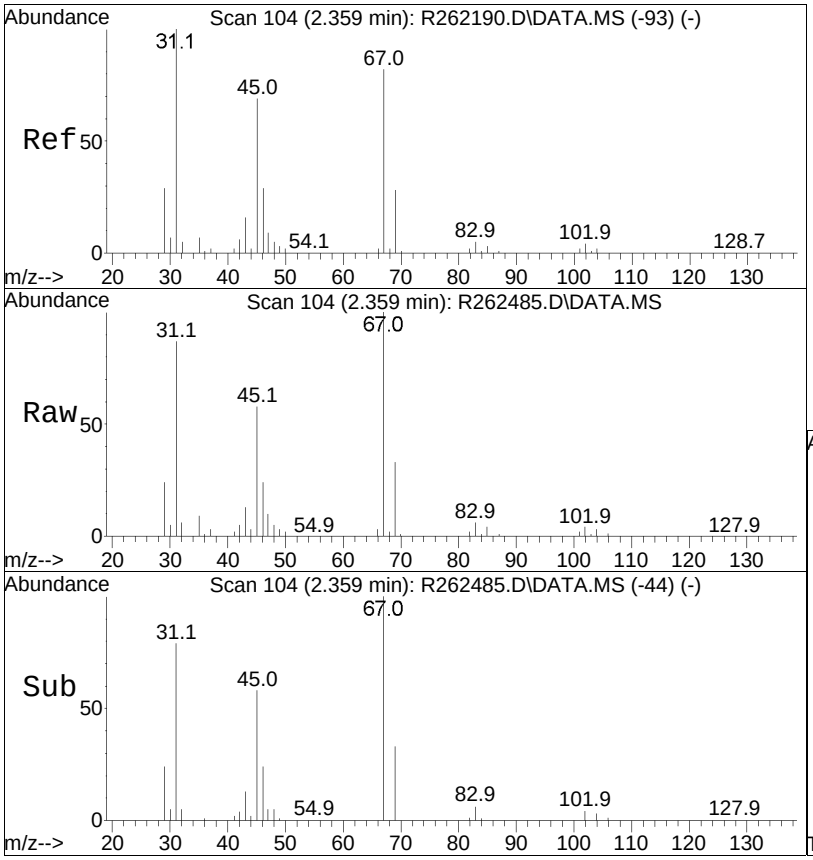


#14
chloroethane
Concen: 11.06 ppbV
RT: 2.332 min Scan# 99
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 64 Resp: 94645

Ion	Ratio	Lower	Upper
64	100		
66	33.4	26.2	39.4

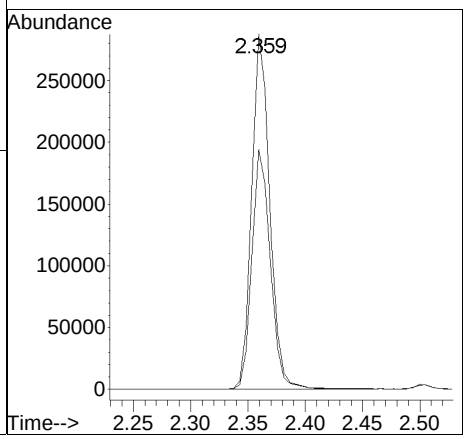


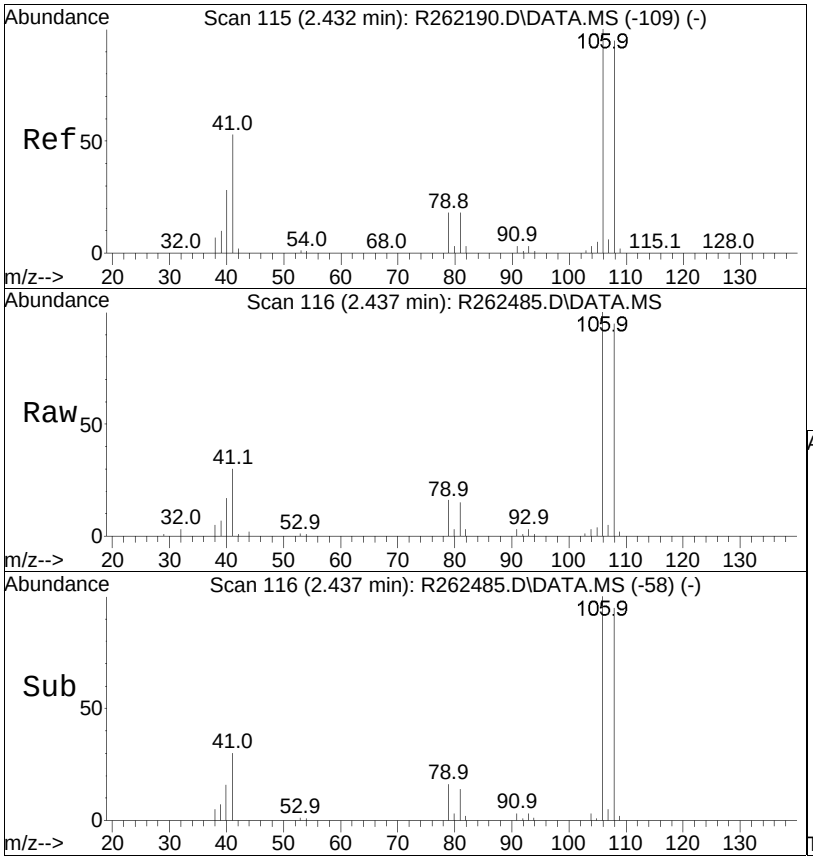


#15
ethanol
Concen: 41.21 ppbV
RT: 2.359 min Scan# 104
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 31 Resp: 344808

Ion	Ratio	Lower	Upper
31	100		
45	67.5	55.4	83.2

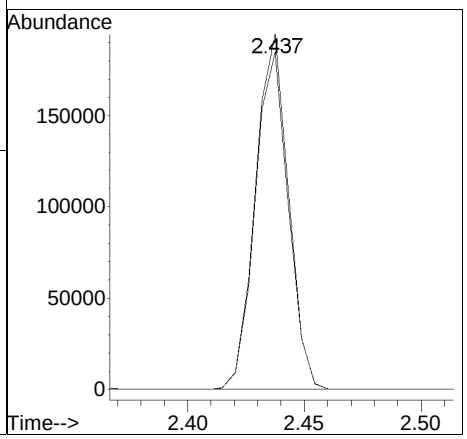


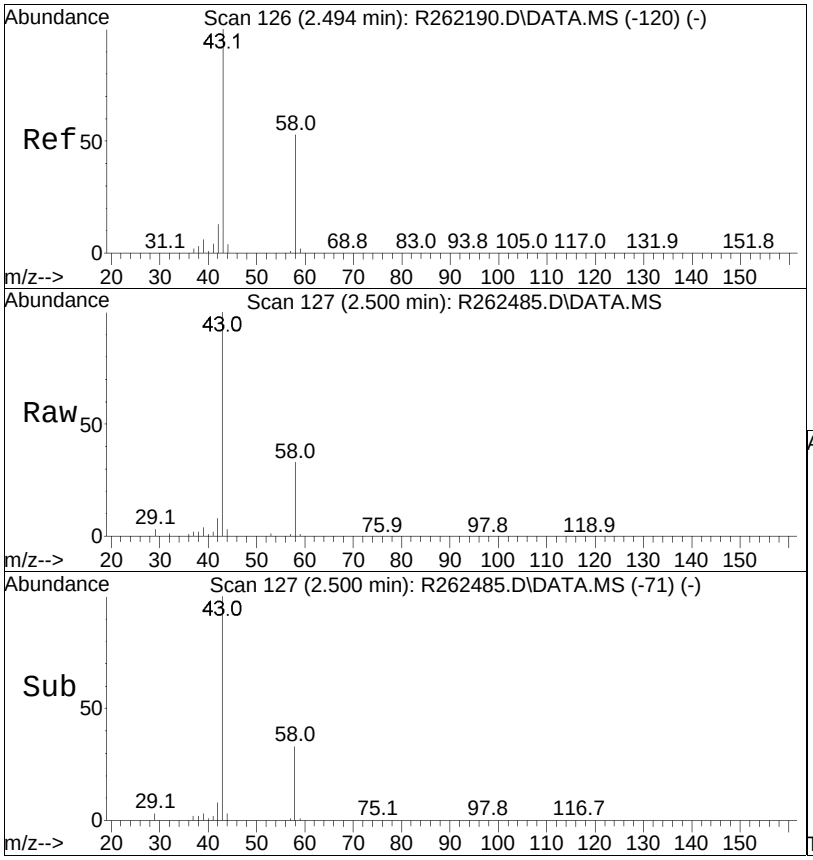


#17
vinyl bromide
Concen: 11.03 ppbV
RT: 2.437 min Scan# 116
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:106 Resp: 191432

Ion	Ratio	Lower	Upper
106	100		
108	94.9	74.8	112.2

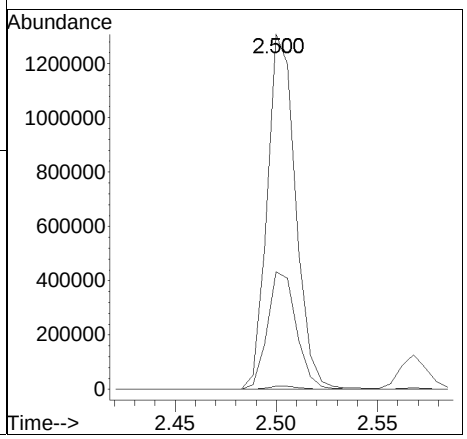


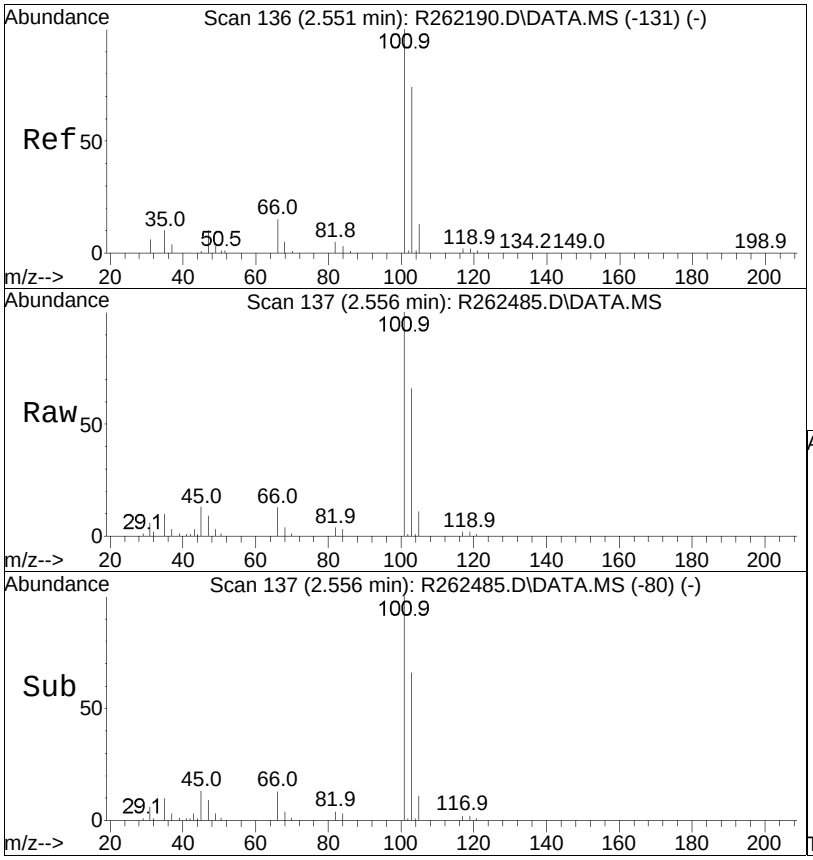


#19
acetone
Concen: 58.03 ppbV
RT: 2.500 min Scan# 127
Delta R.T. -0.006 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 43 Resp: 1276786

Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.7	40.1
57	0.9	0.7	1.1

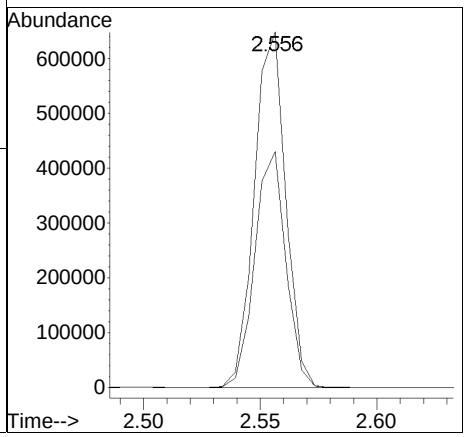


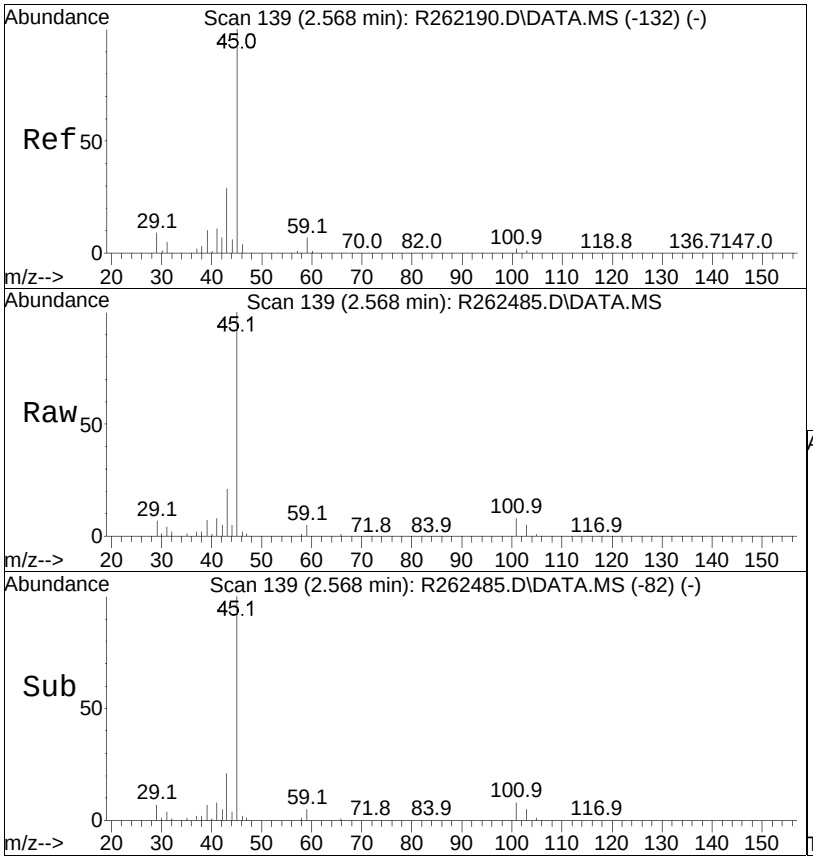


#21
trichlorofluoromethane
Concen: 10.55 ppbV
RT: 2.556 min Scan# 137
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:101 Resp: 605922

Ion	Ratio	Lower	Upper
101	100		
103	66.4	51.7	77.5

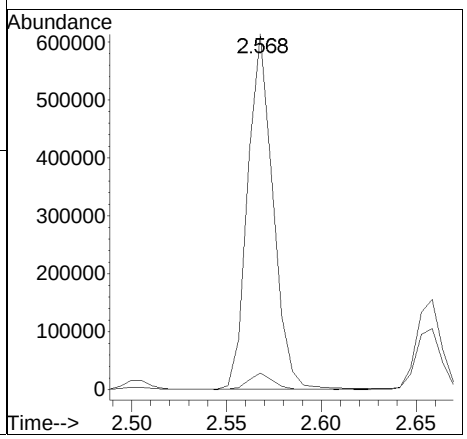


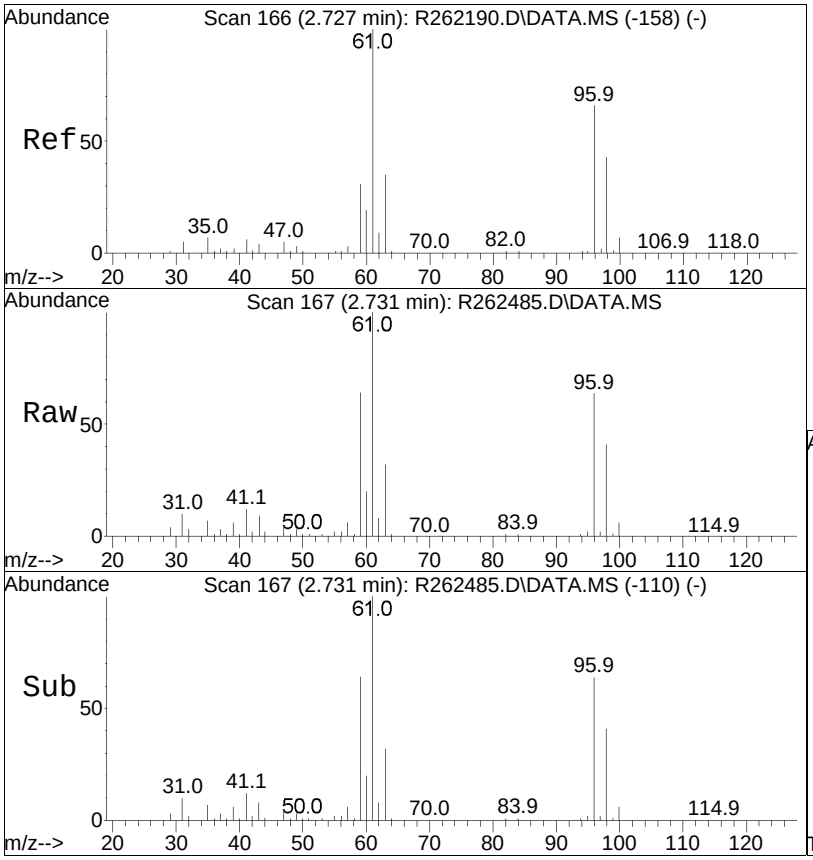


#22
isopropyl alcohol
Concen: 21.69 ppbV
RT: 2.568 min Scan# 139
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 45 Resp: 571374

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.5	5.3

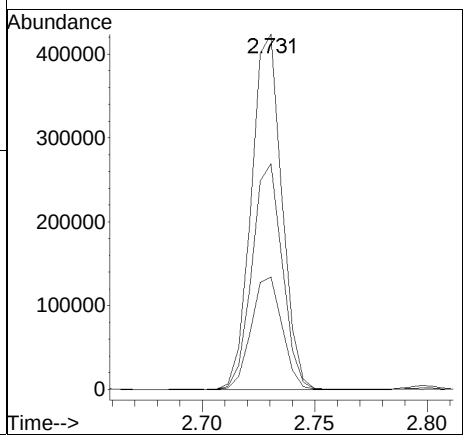


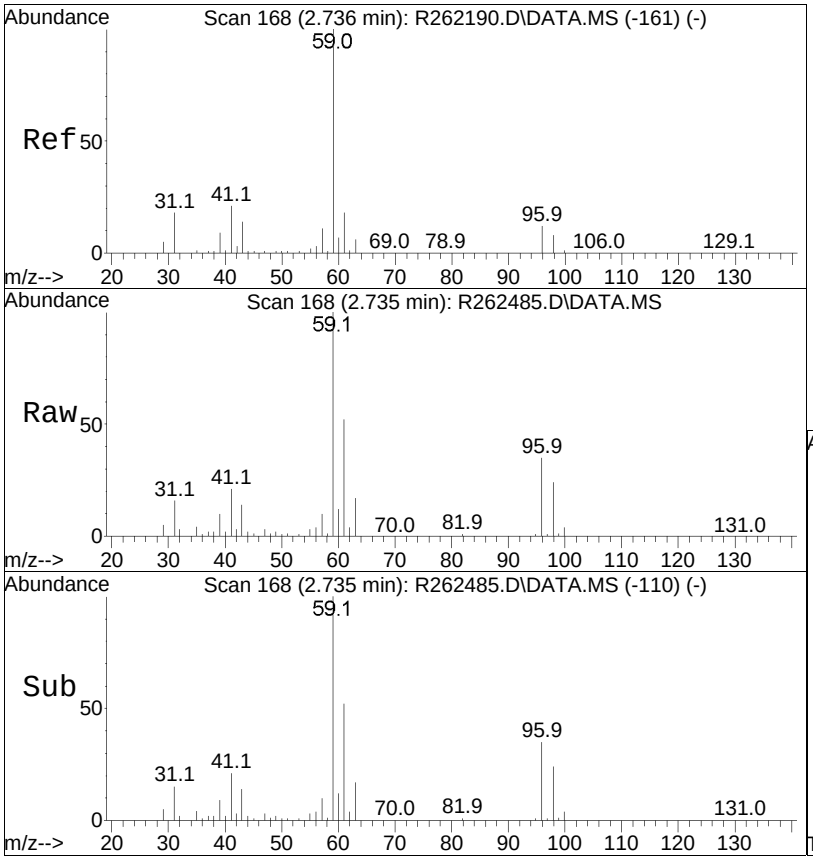


#26
1,1-dichloroethene
Concen: 9.68 ppbV
RT: 2.731 min Scan# 167
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 61 Resp: 399942

Ion	Ratio	Lower	Upper
61	100		
96	63.6	50.2	75.2
63	31.6	26.0	39.0

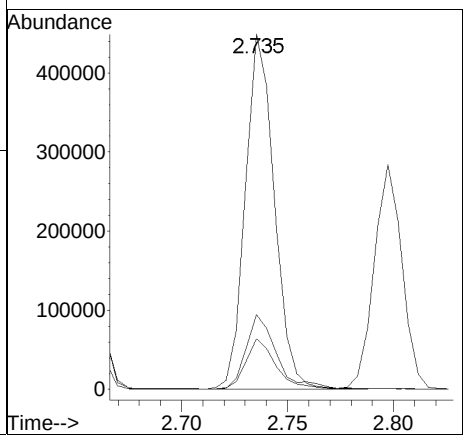


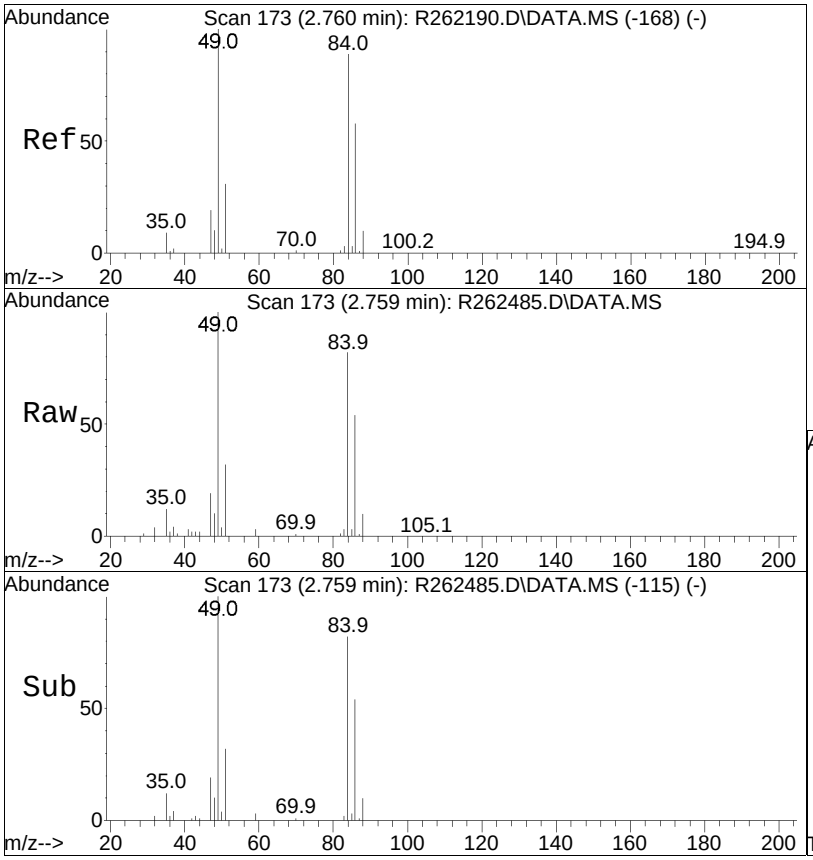


#27
tertiary butyl alcohol
Concen: 9.20 ppbV
RT: 2.735 min Scan# 168
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 59 Resp: 429723

Ion	Ratio	Lower	Upper
59	100		
41	21.1	16.5	24.7
43	14.3	10.8	16.2

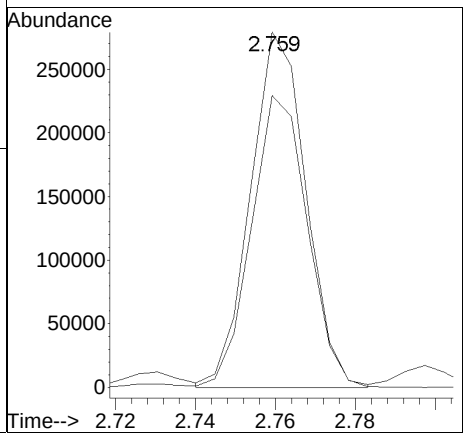


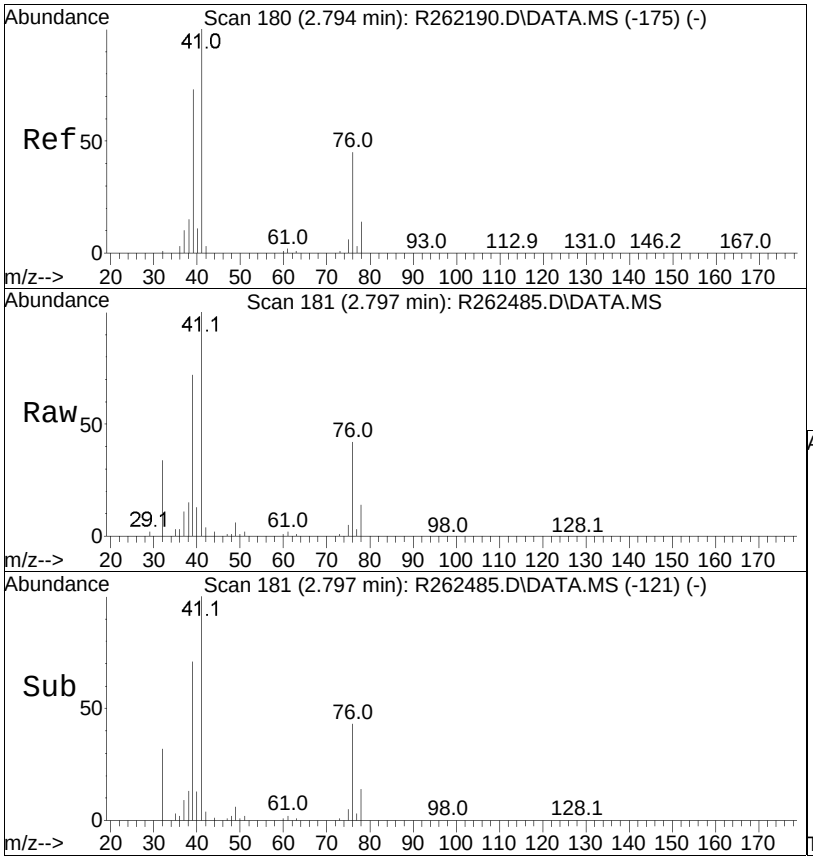


#28
methylene chloride
Concen: 11.18 ppbV
RT: 2.759 min Scan# 173
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 49 Resp: 268732

Ion	Ratio	Lower	Upper
49	100		
84	82.1	67.1	100.7

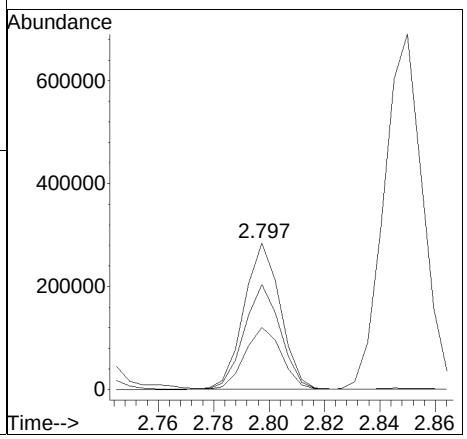


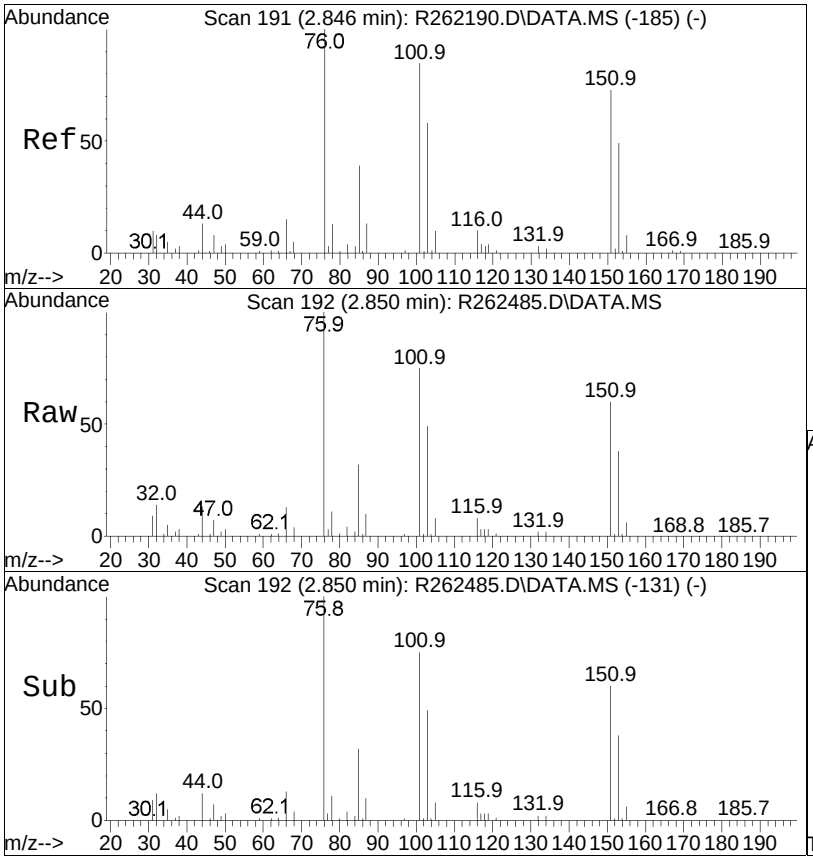


#29
3-chloropropene
Concen: 12.07 ppbV
RT: 2.797 min Scan# 181
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 41 Resp: 258988

Ion	Ratio	Lower	Upper
41	100		
39	71.7	59.7	89.5
76	42.5	33.2	49.8

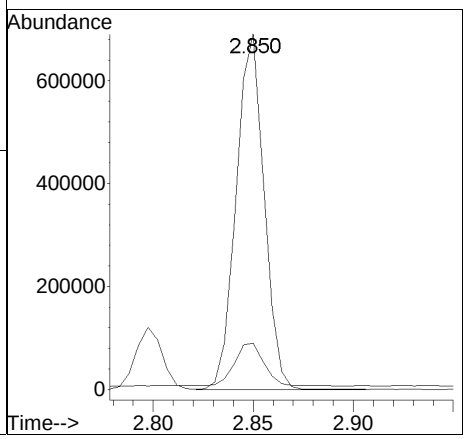


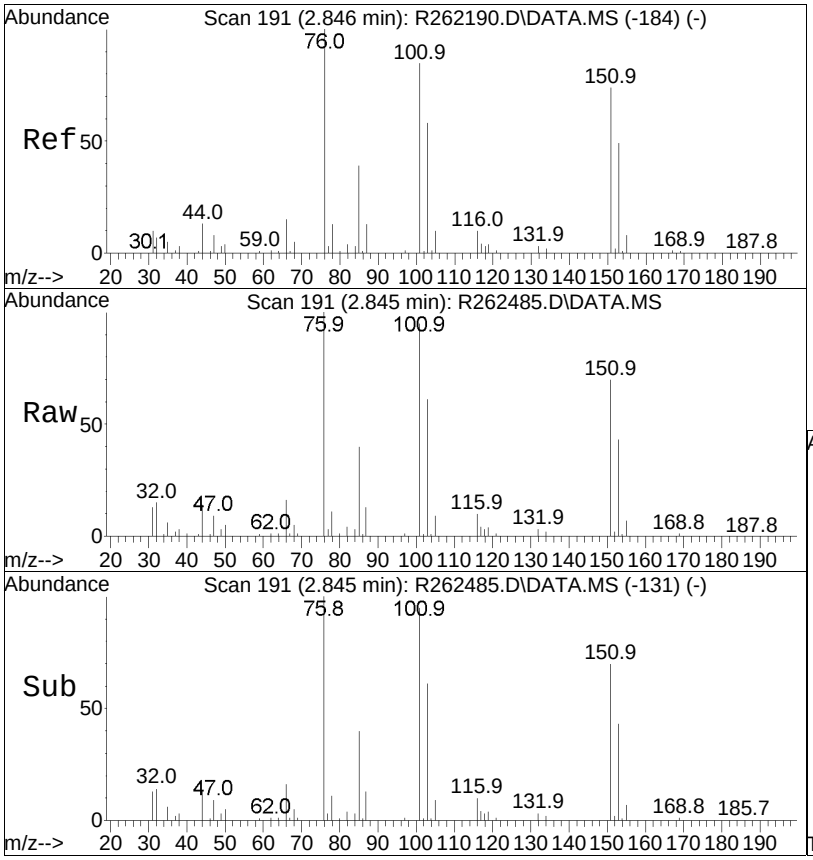


#30
carbon disulfide
Concen: 12.47 ppbV
RT: 2.850 min Scan# 192
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 76 Resp: 671135

Ion	Ratio	Lower	Upper
76	100		
44	13.1	11.8	17.8

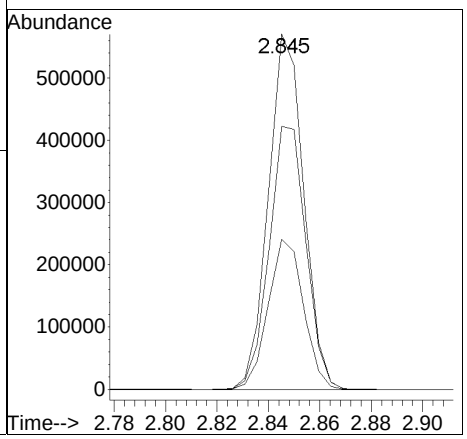


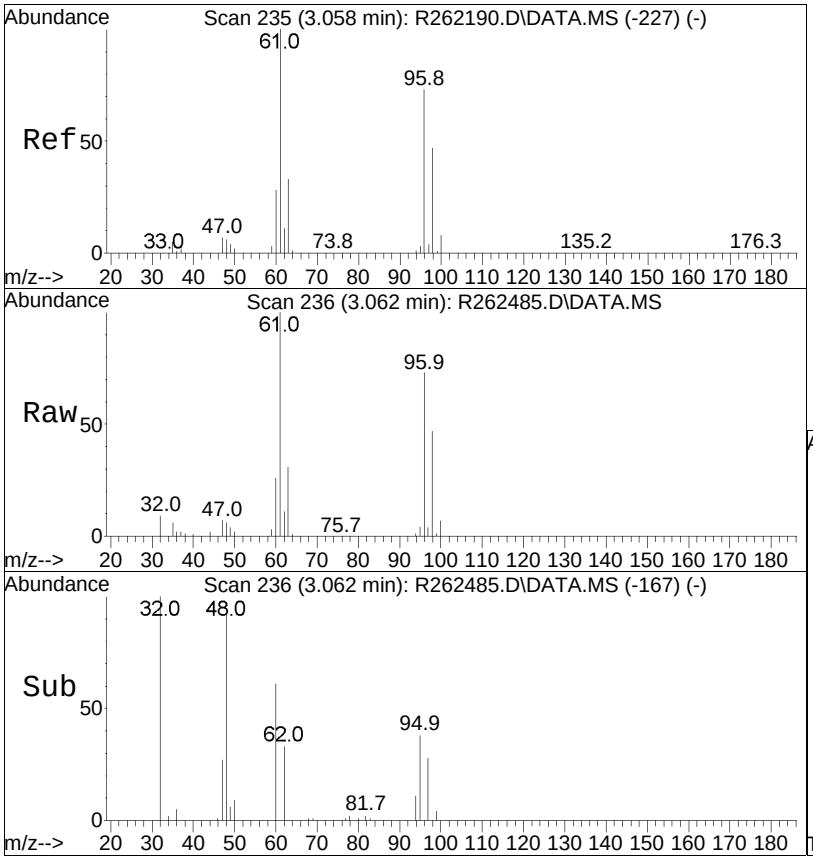


#31
Freon 113
Concen: 11.27 ppbV
RT: 2.845 min Scan# 191
Delta R.T. -0.006 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:101 Resp: 545313

Ion	Ratio	Lower	Upper
101	100		
85	42.3	34.0	51.0
151	74.0	64.4	96.6

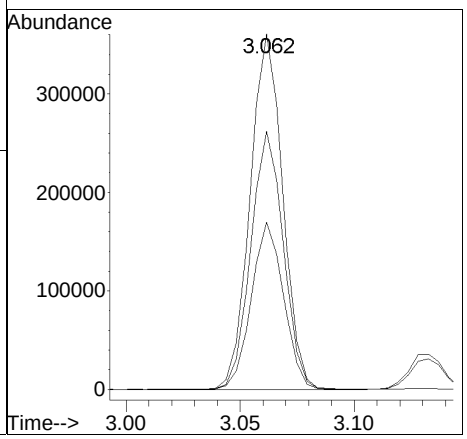


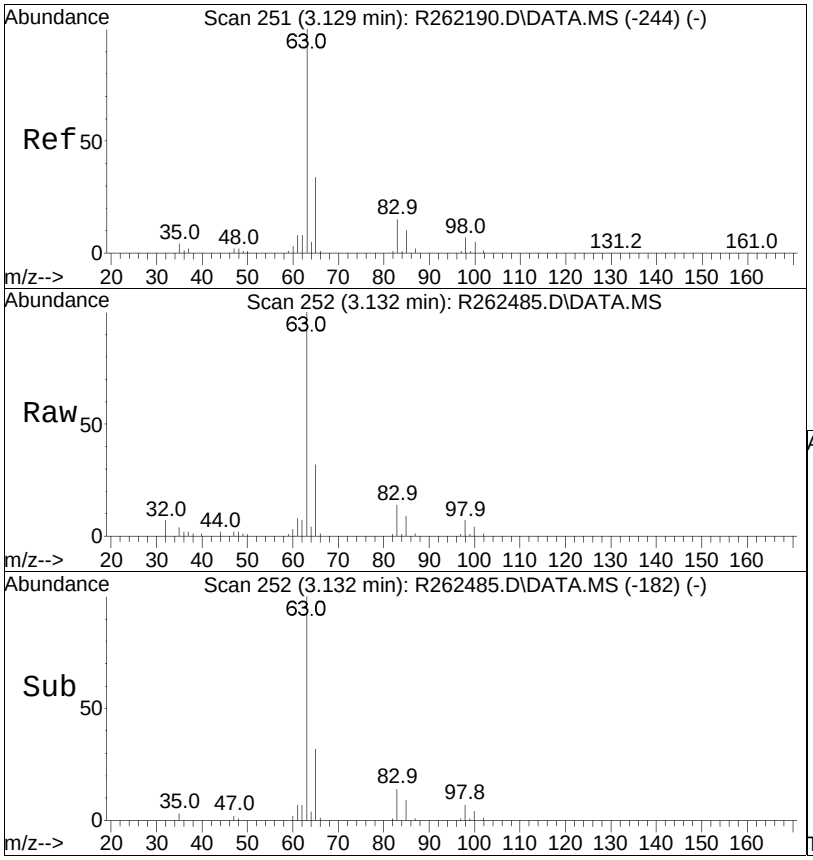


#32
trans-1,2-dichloroethene
Concen: 12.33 ppbV
RT: 3.062 min Scan# 236
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 61 Resp: 358363

Ion	Ratio	Lower	Upper
61	100		
96	72.6	57.2	85.8
98	47.1	36.0	54.0

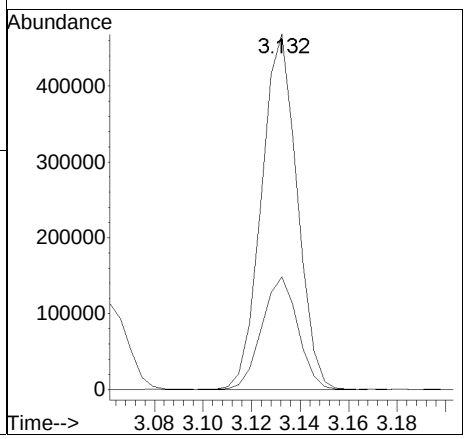


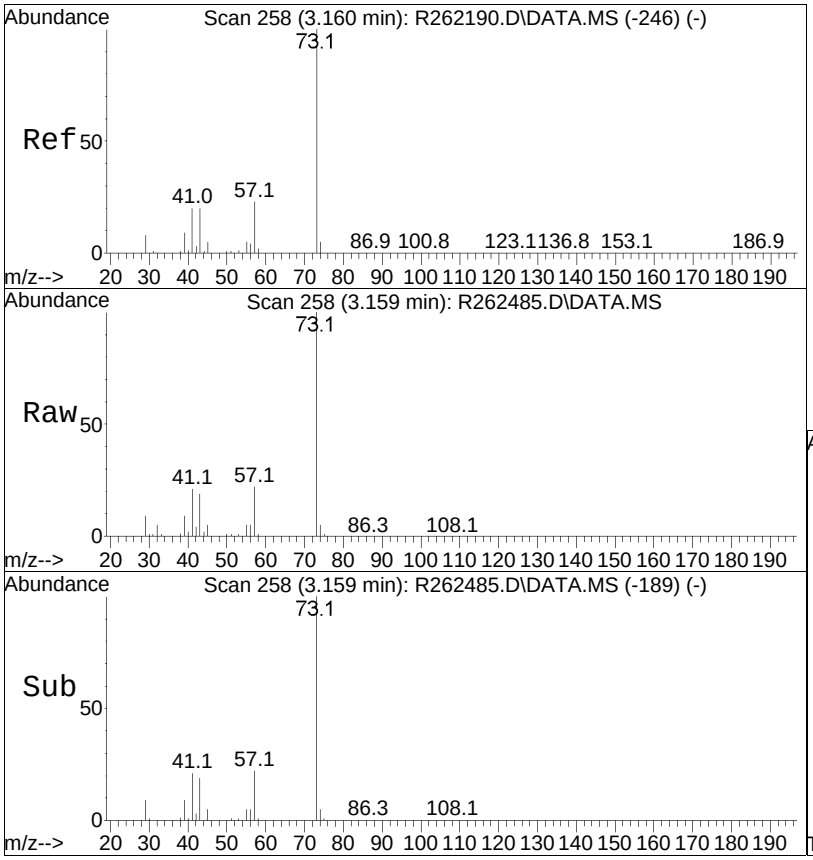


#33
1,1-dichloroethane
Concen: 11.28 ppbV
RT: 3.132 min Scan# 252
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 63 Resp: 477845

Ion	Ratio	Lower	Upper
63	100		
65	31.7	26.3	39.5

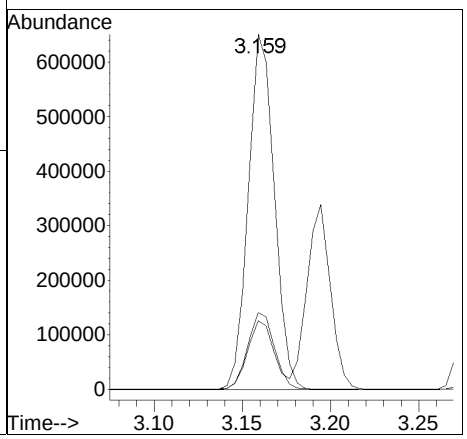


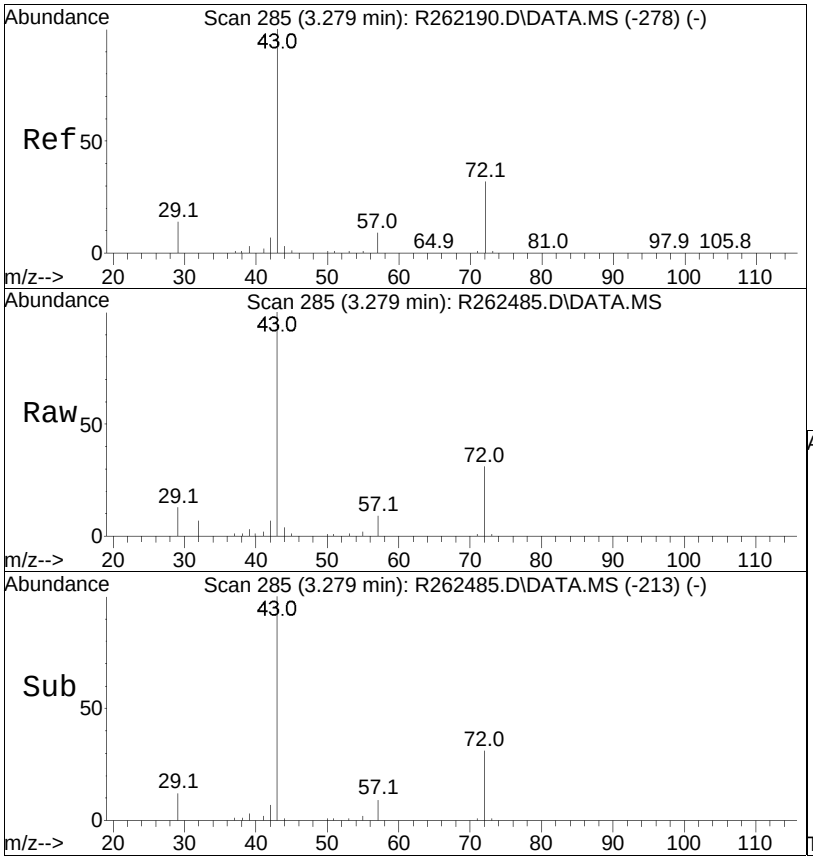


#34
MTBE
Concen: 12.10 ppbV
RT: 3.159 min Scan# 258
Delta R.T. -0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 73 Resp: 668956

Ion	Ratio	Lower	Upper
73	100		
57	21.6	16.9	25.3
43	19.3	15.1	22.7

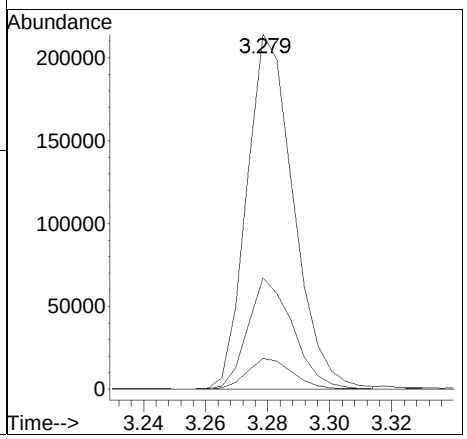


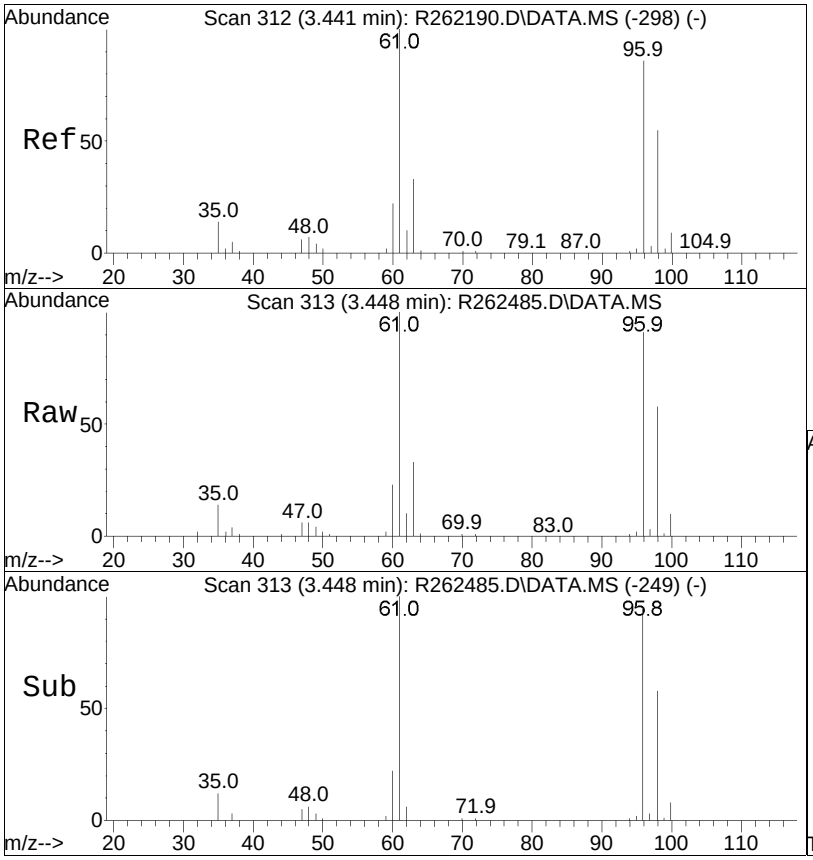


#36
2-butanone
Concen: 10.99 ppbV m
RT: 3.279 min Scan# 285
Delta R.T. -0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 43 Resp: 224499

Ion	Ratio	Lower	Upper
43	100		
72	31.4	24.5	36.7
57	8.7	7.0	10.6

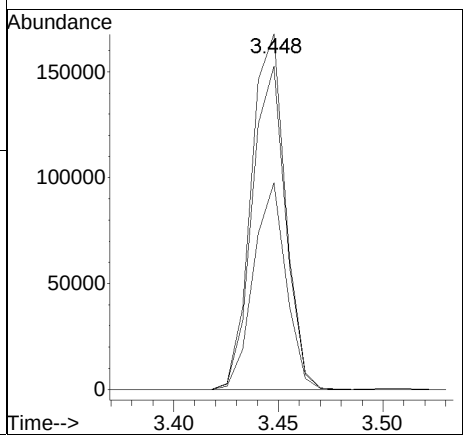


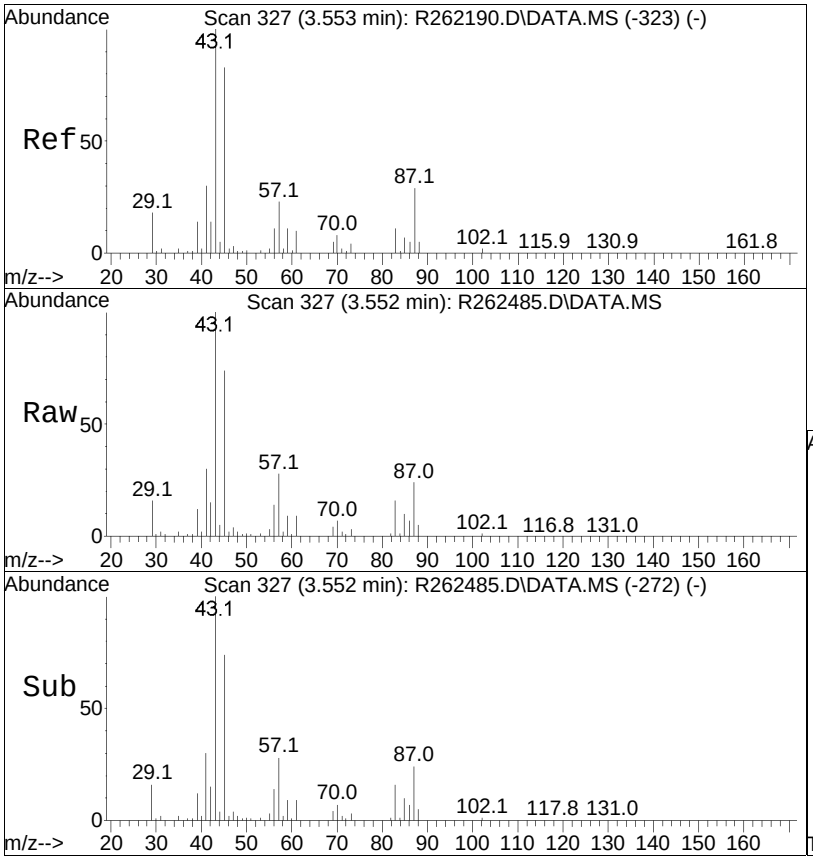


#37
cis-1,2-dichloroethene
Concen: 10.66 ppbV
RT: 3.448 min Scan# 313
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 61 Resp: 190818

Ion	Ratio	Lower	Upper
61	100		
96	90.9	69.4	104.2
98	58.1	45.8	68.6

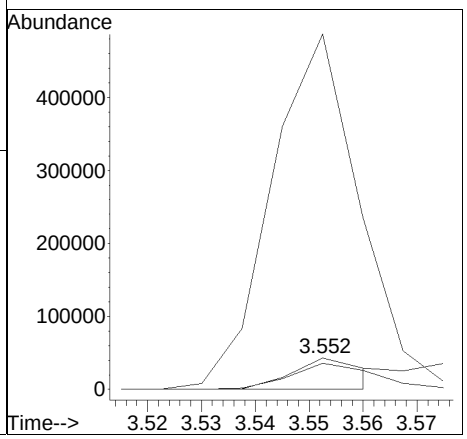


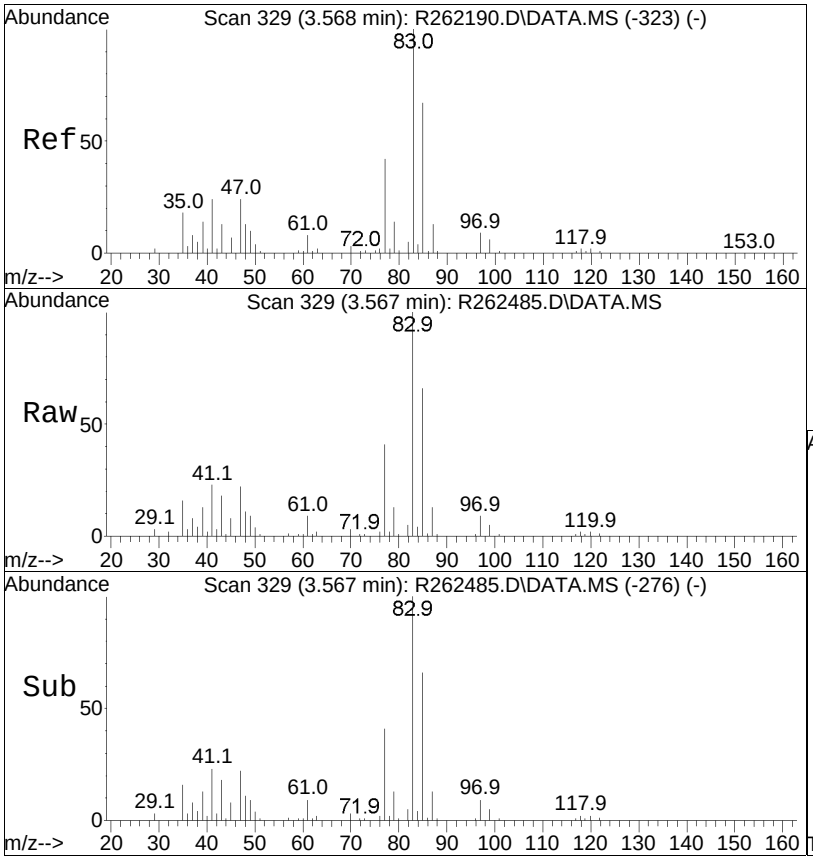


#38
Ethyl Acetate
Concen: 9.48 ppbV m
RT: 3.552 min Scan# 327
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 61 Resp: 40081

Ion	Ratio	Lower	Upper
61	100		
70	83.4	65.2	97.8
43	1133.6	1134.1	1701.1#

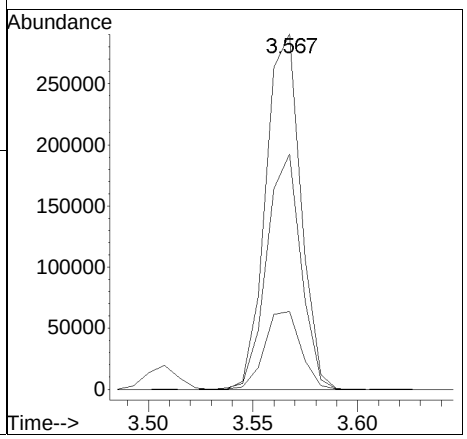


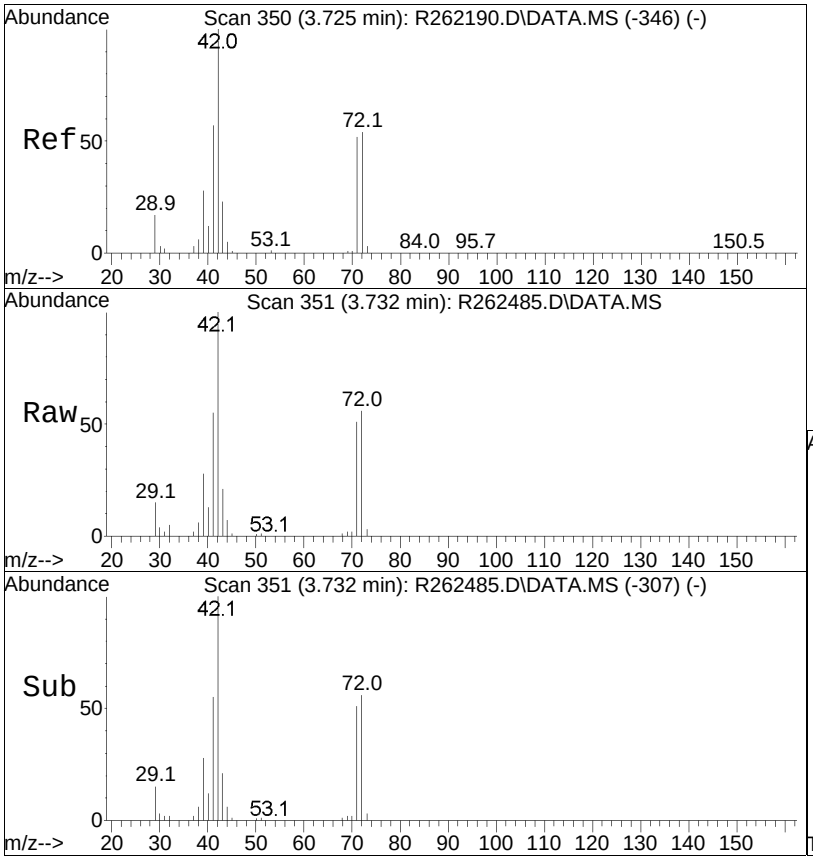


#39
chloroform
Concen: 10.94 ppbV
RT: 3.567 min Scan# 329
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 83 Resp: 338924

Ion	Ratio	Lower	Upper
83	100		
85	66.3	53.0	79.4
47	21.9	18.2	27.4

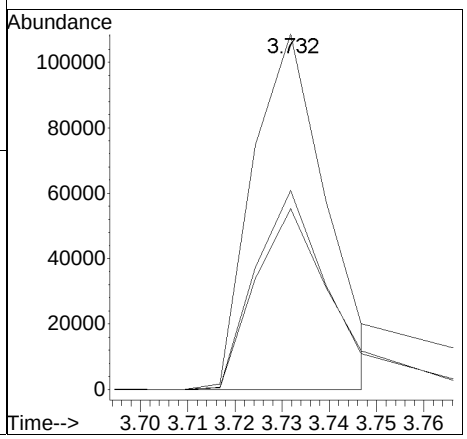


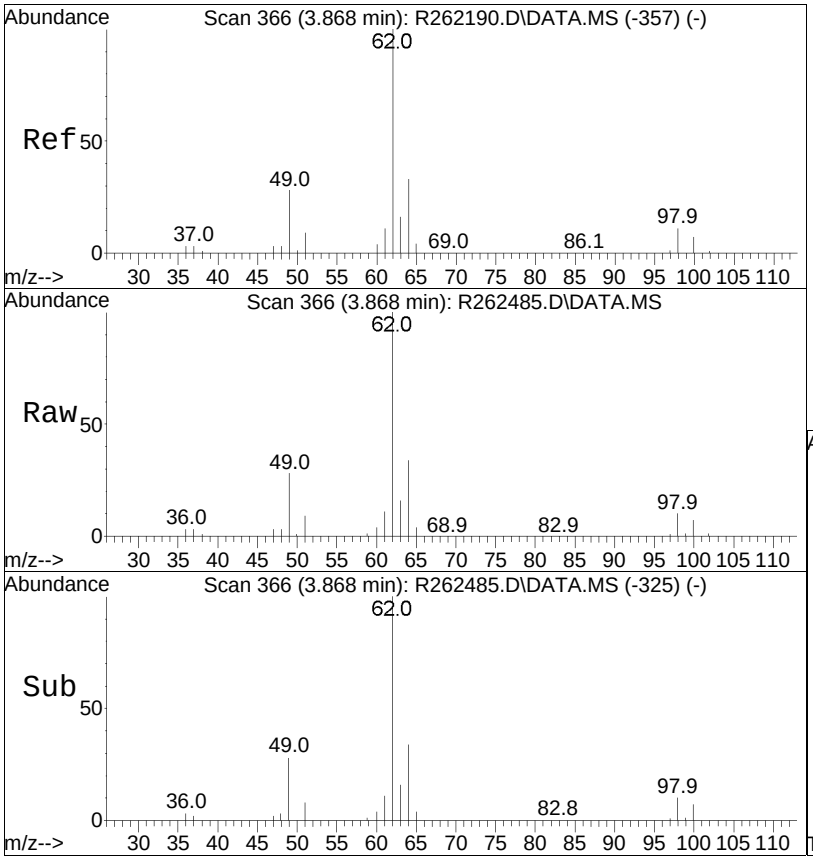


#40
Tetrahydrofuran
Concen: 12.03 ppbV m
RT: 3.732 min Scan# 351
Delta R.T. -0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 42 Resp: 117777

Ion	Ratio	Lower	Upper
42	100		
71	50.9	38.2	57.4
72	56.0	43.9	65.9

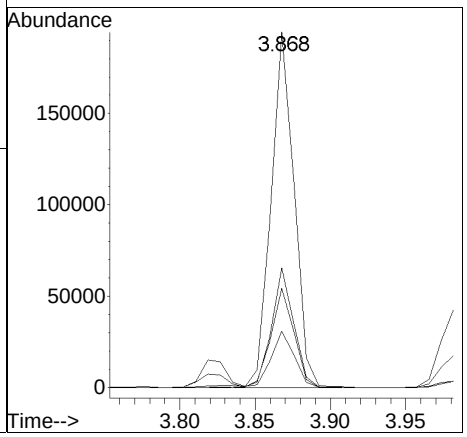


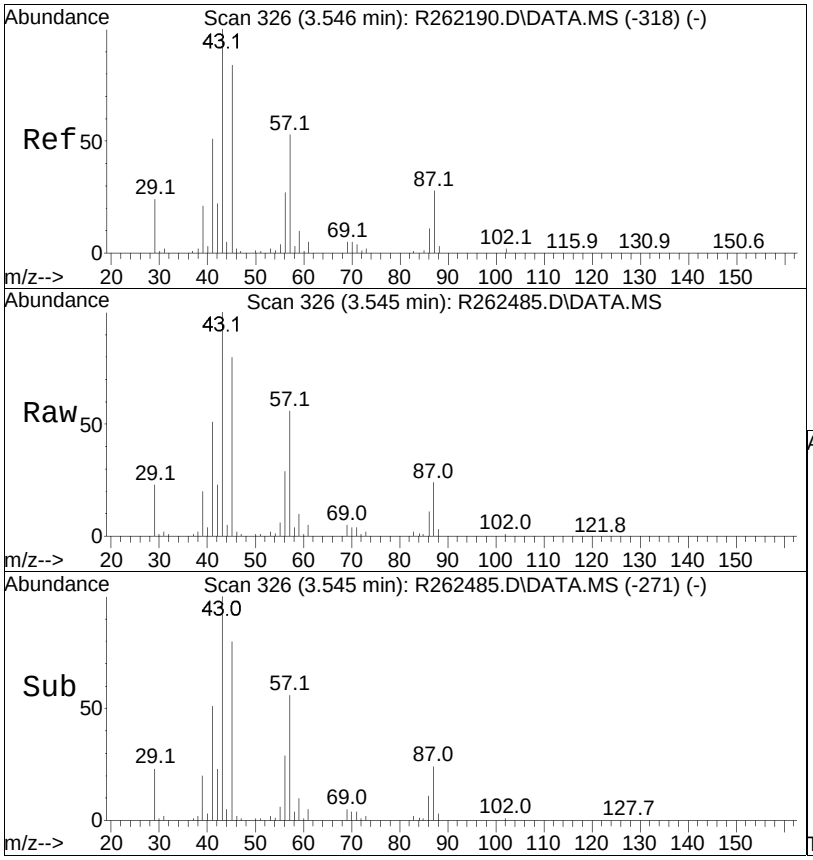


#42
1,2-dichloroethane
Concen: 10.46 ppbV
RT: 3.868 min Scan# 366
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 62 Resp: 206869

Ion	Ratio	Lower	Upper
62	100		
64	33.6	26.3	39.5
49	27.9	22.2	33.2
63	15.8	13.2	19.8

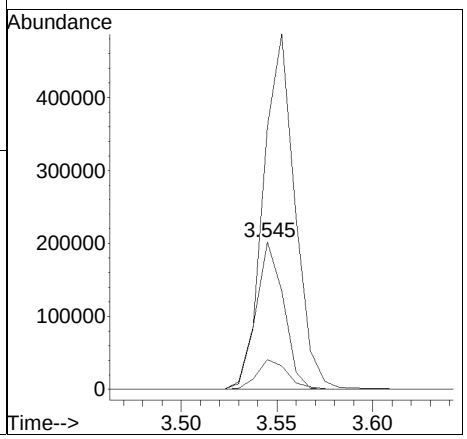


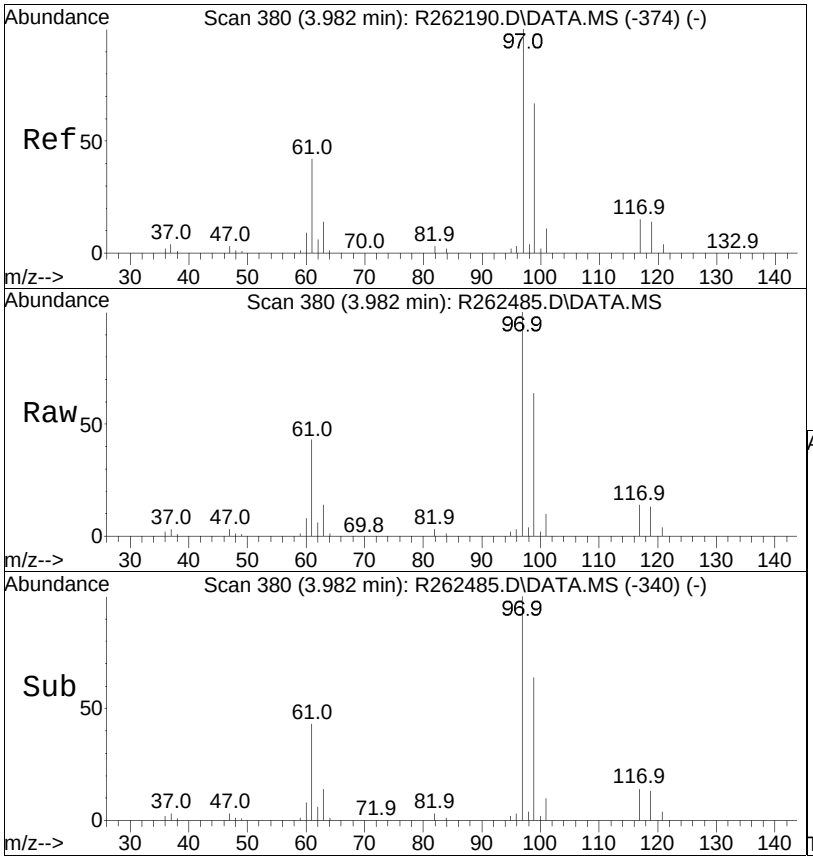


#44
hexane
Concen: 12.01 ppbV
RT: 3.545 min Scan# 326
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 57 Resp: 205935

Ion	Ratio	Lower	Upper
57	100		
43	178.3	161.1	241.7
86	20.2	16.2	24.4

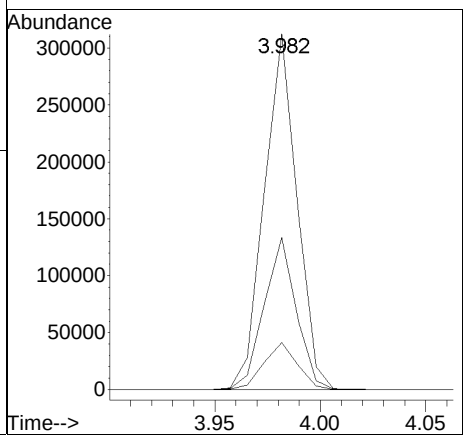


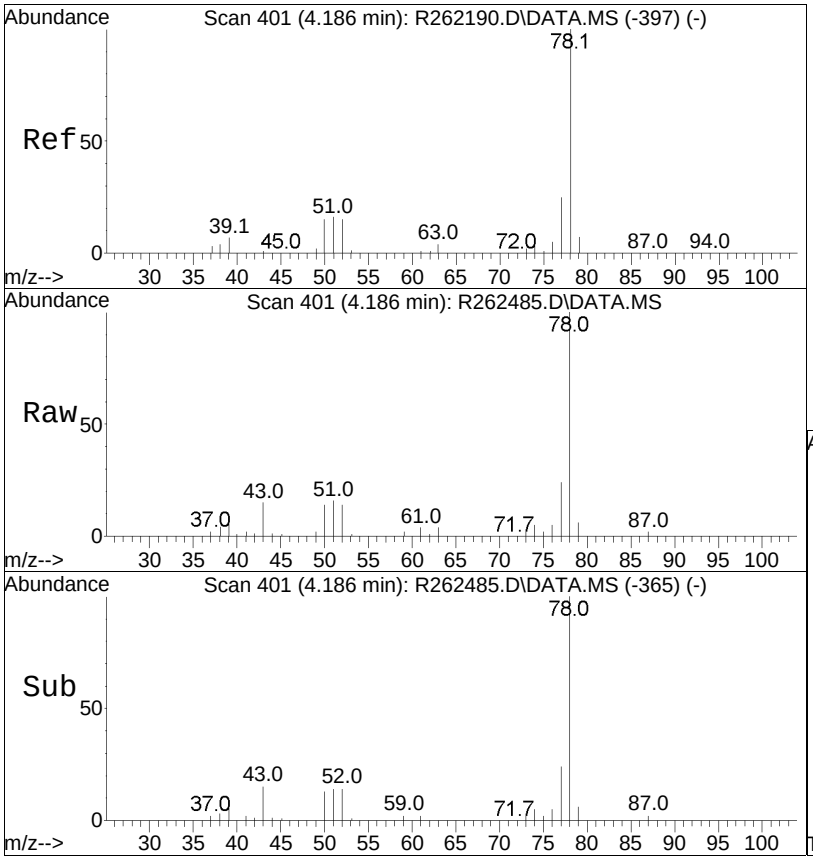


#48
1,1,1-trichloroethane
Concen: 10.23 ppbV
RT: 3.982 min Scan# 380
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 97 Resp: 336715

Ion	Ratio	Lower	Upper
97	100		
61	42.8	34.2	51.4
119	13.2	10.7	16.1

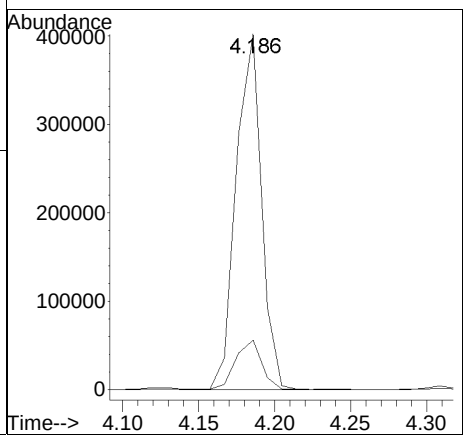


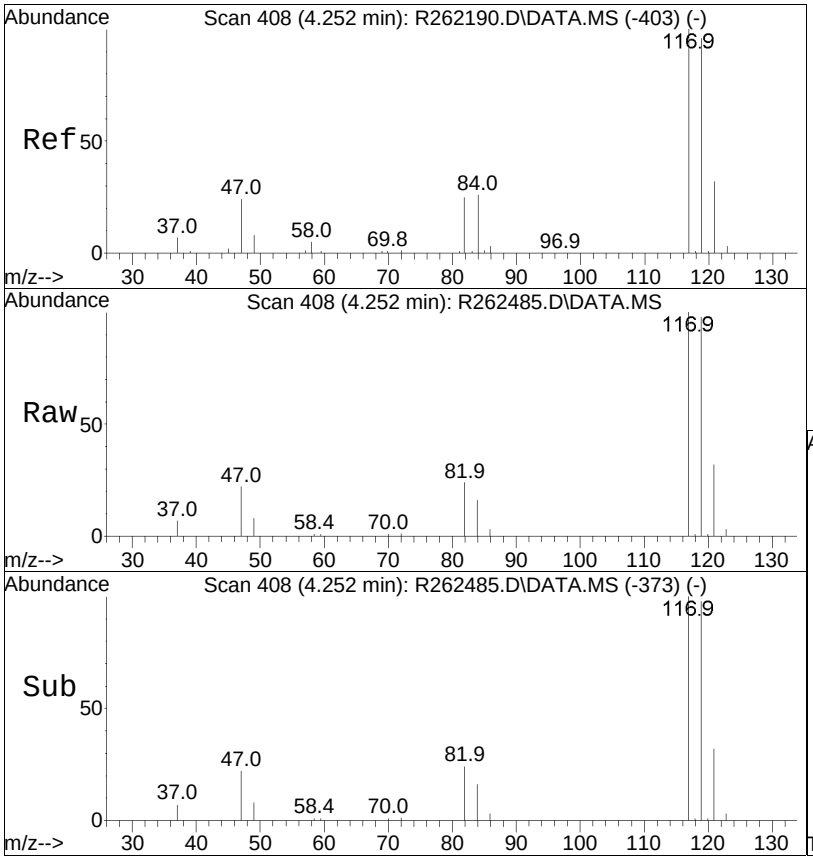


#50
benzene
Concen: 10.79 ppbV
RT: 4.186 min Scan# 401
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 78 Resp: 467672

Ion	Ratio	Lower	Upper
78	100		
52	13.9	10.8	16.2

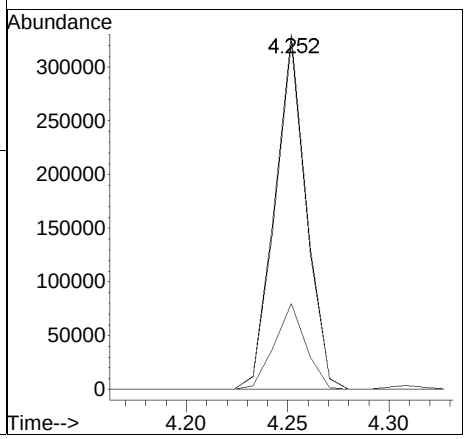


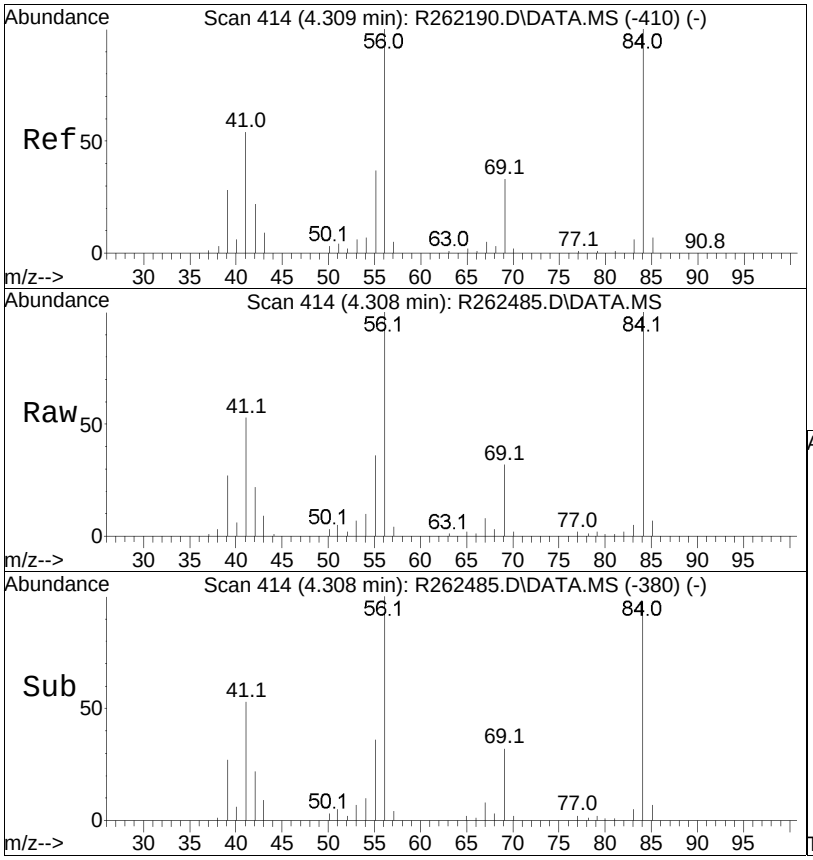


#52
carbon tetrachloride
Concen: 10.73 ppbV
RT: 4.252 min Scan# 408
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:117 Resp: 359633

Ion	Ratio	Lower	Upper
117	100		
119	97.9	76.9	115.3
82	24.2	20.3	30.5

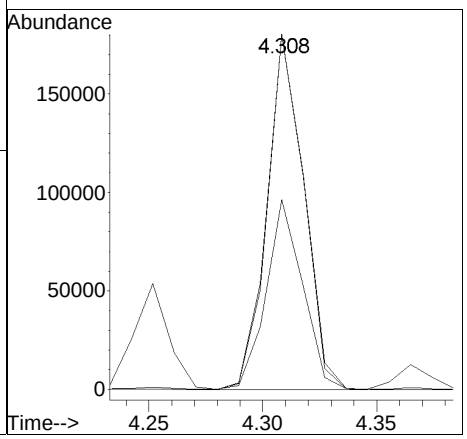


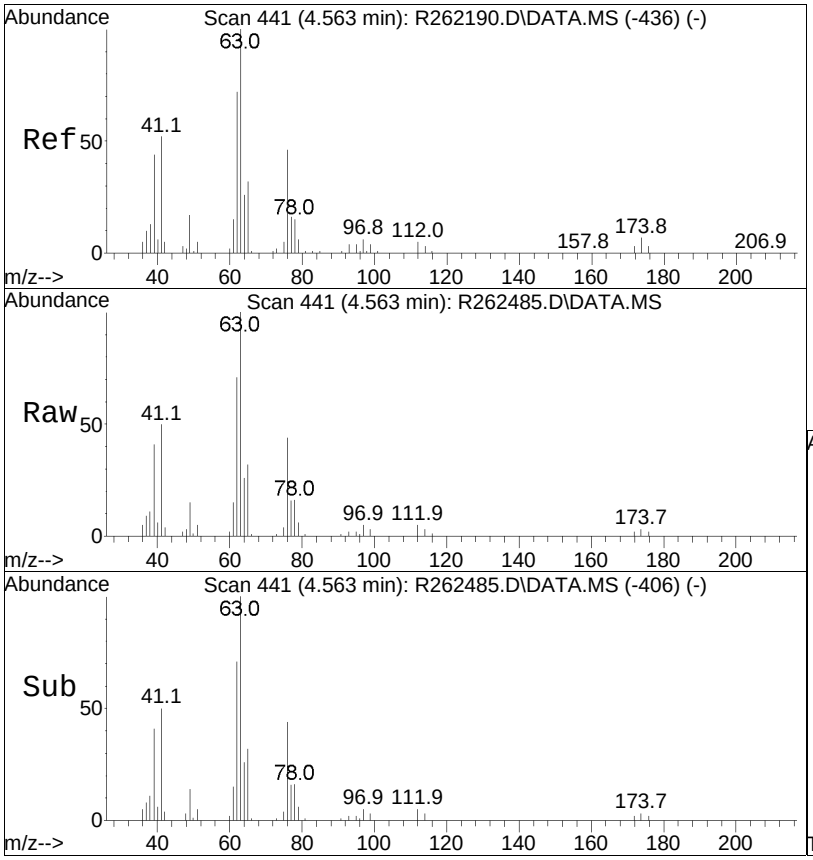


#53
cyclohexane
Concen: 11.72 ppbV
RT: 4.308 min Scan# 414
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 56 Resp: 201904

Ion	Ratio	Lower	Upper
56	100		
84	100.1	75.0	112.4
41	53.5	43.1	64.7

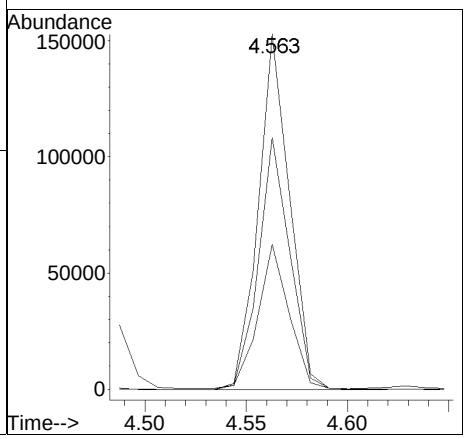


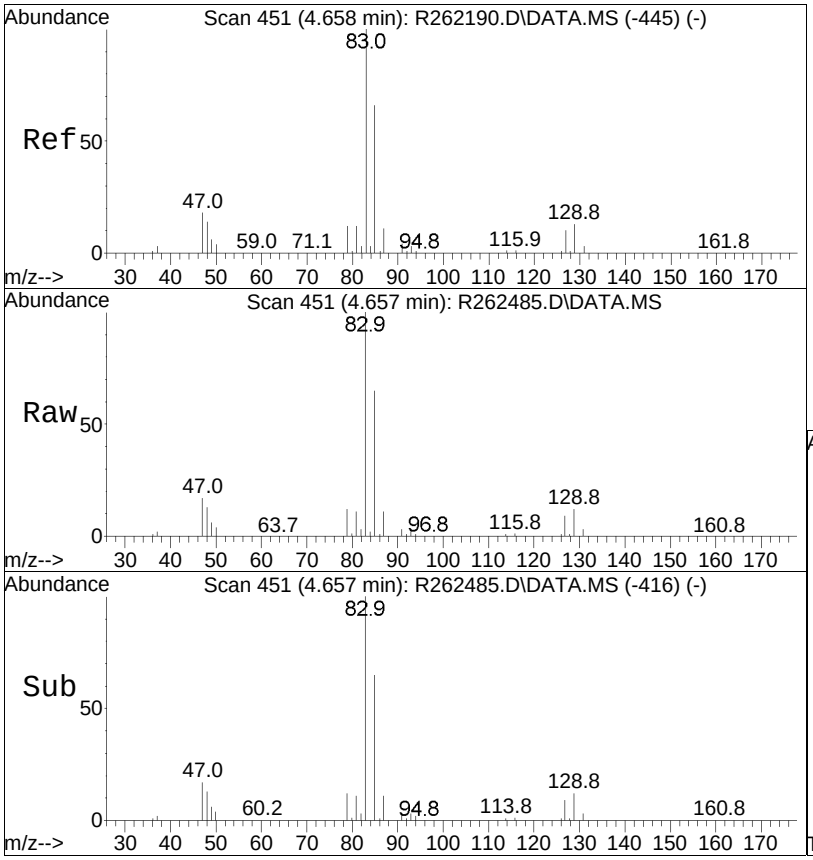


#56
1,2-dichloropropane
Concen: 10.53 ppbV
RT: 4.563 min Scan# 441
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 63 Resp: 164043

Ion	Ratio	Lower	Upper
63	100		
62	70.9	58.1	87.1
39	40.9	33.0	49.4

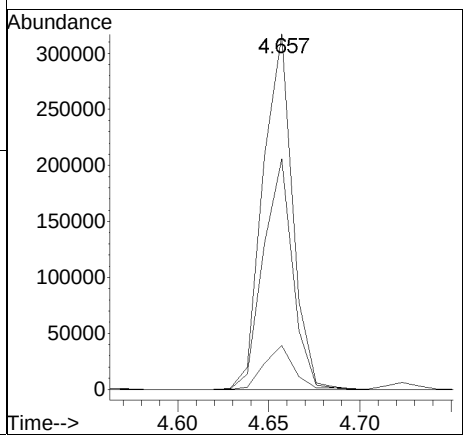


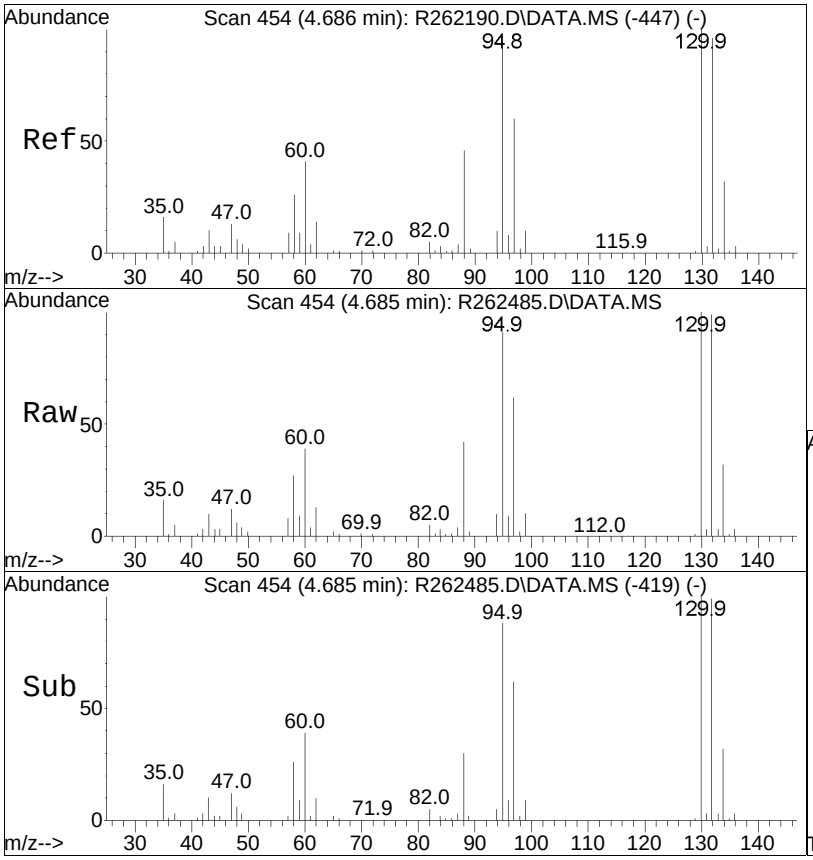


#57
bromodichloromethane
Concen: 12.34 ppbV
RT: 4.657 min Scan# 451
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 83 Resp: 358918

Ion	Ratio	Lower	Upper
83	100		
85	64.9	54.1	81.1
129	12.4	10.1	15.1

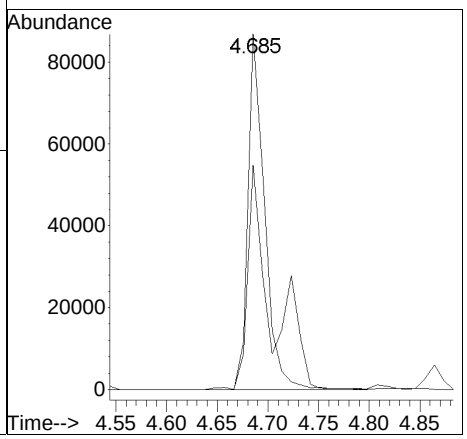


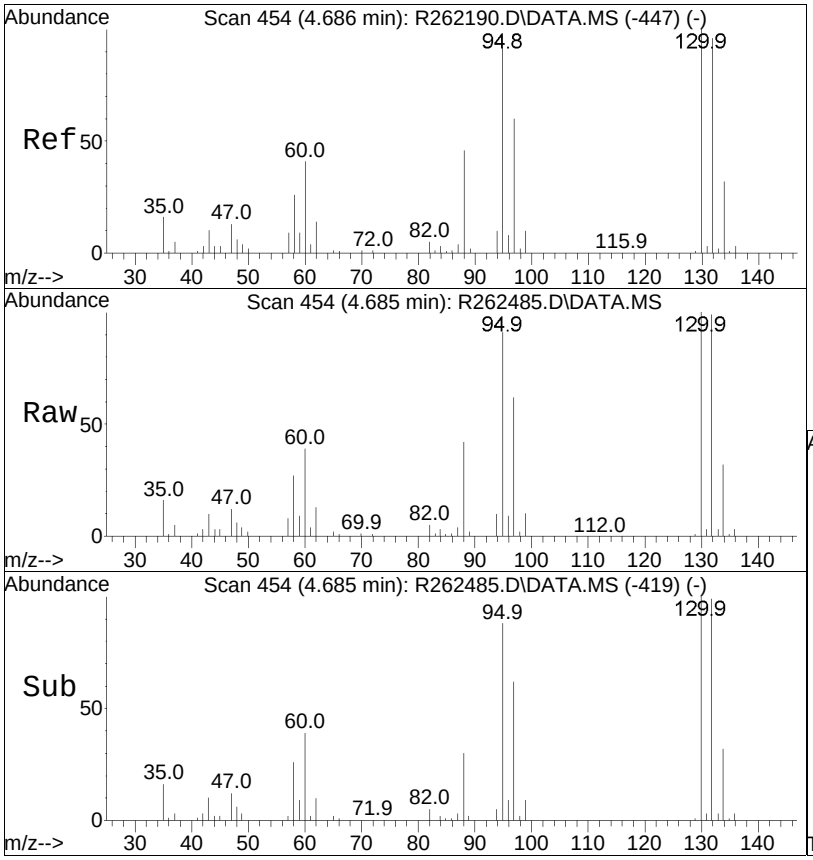


#58
1,4-dioxane
Concen: 11.33 ppbV
RT: 4.685 min Scan# 454
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 88 Resp: 99782

Ion	Ratio	Lower	Upper
88	100		
58	63.1	47.9	71.9

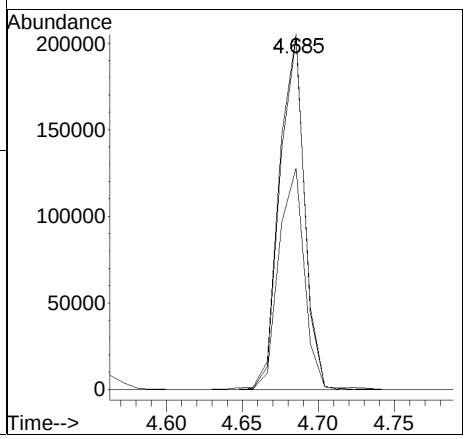


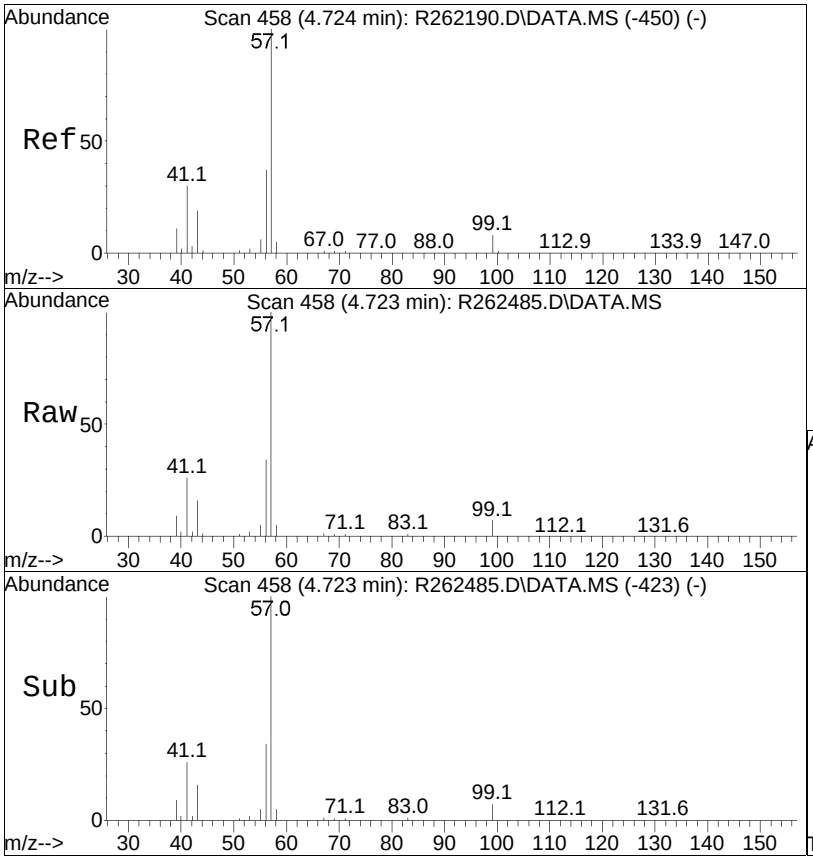


#59
trichloroethene
Concen: 10.67 ppbV
RT: 4.685 min Scan# 454
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:130 Resp: 235577

Ion	Ratio	Lower	Upper
130	100		
132	98.9	77.6	116.4
97	62.3	47.8	71.6

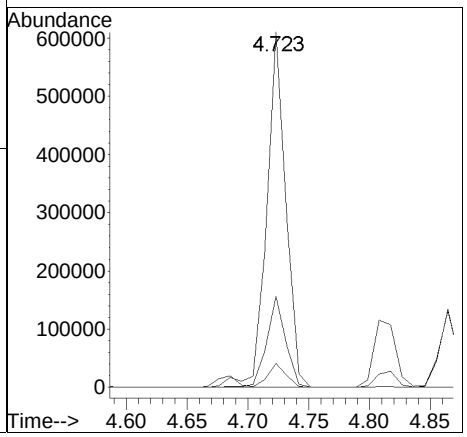


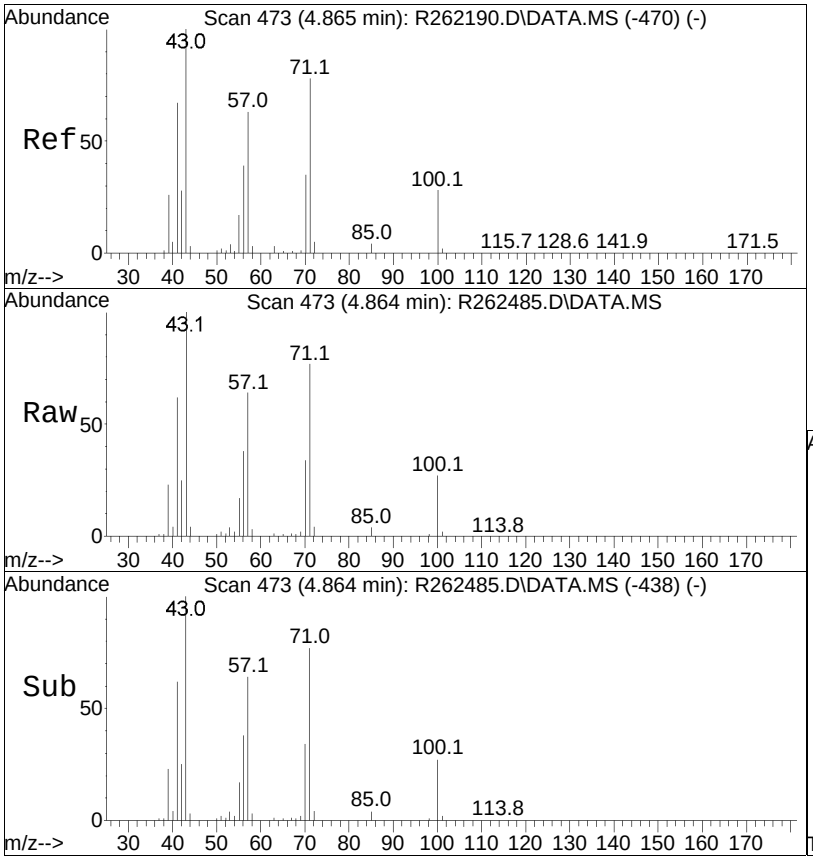


#60
2,2,4-trimethylpentane
Concen: 12.51 ppbV
RT: 4.723 min Scan# 458
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 57 Resp: 672823

Ion	Ratio	Lower	Upper
57	100		
99	6.7	5.8	8.6
41	25.6	21.1	31.7

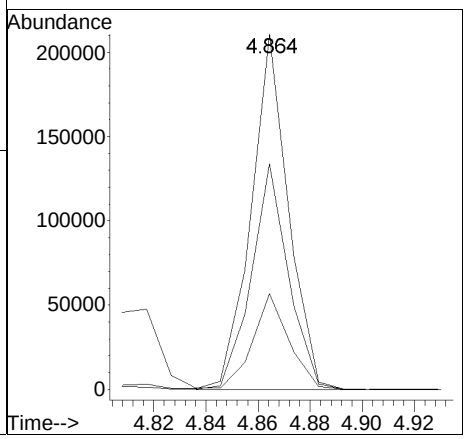


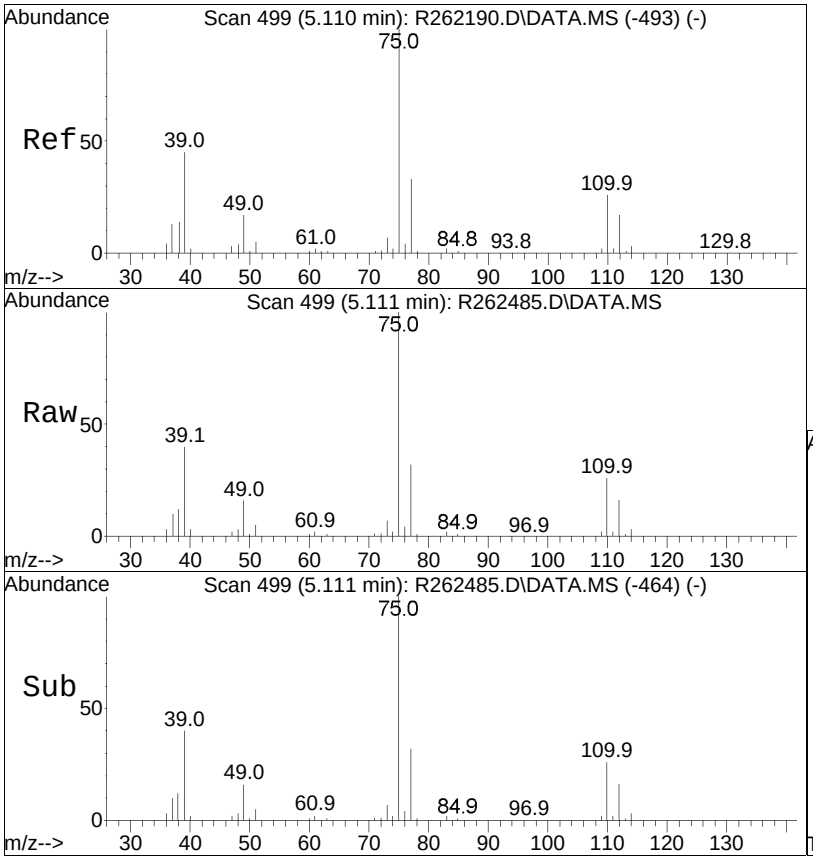


#62
heptane
Concen: 12.41 ppbV
RT: 4.864 min Scan# 473
Delta R.T. -0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 43 Resp: 208865

Ion	Ratio	Lower	Upper
43	100		
57	63.5	47.4	71.0
100	27.0	21.2	31.8

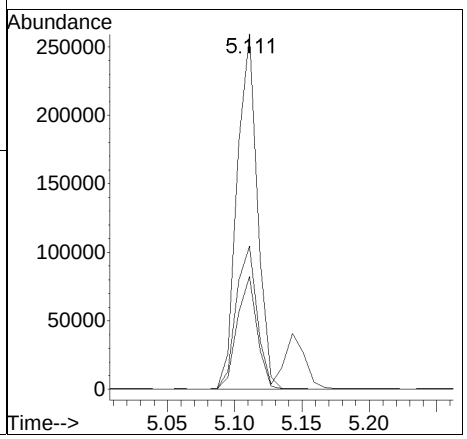


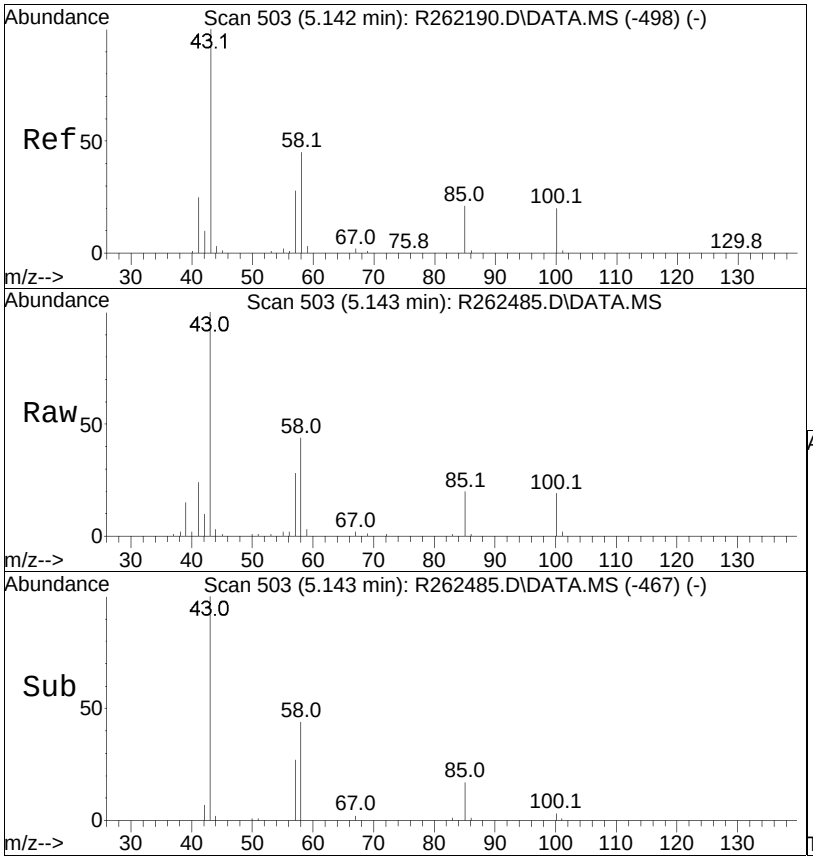


#63
cis-1,3-dichloropropene
Concen: 11.54 ppbV
RT: 5.111 min Scan# 499
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 75 Resp: 274036

Ion	Ratio	Lower	Upper
75	100		
39	40.3	33.4	50.0
77	31.7	24.6	37.0

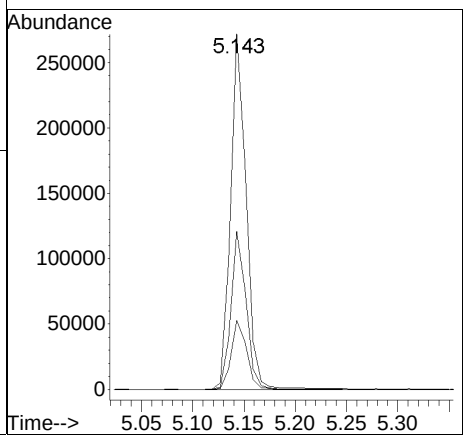


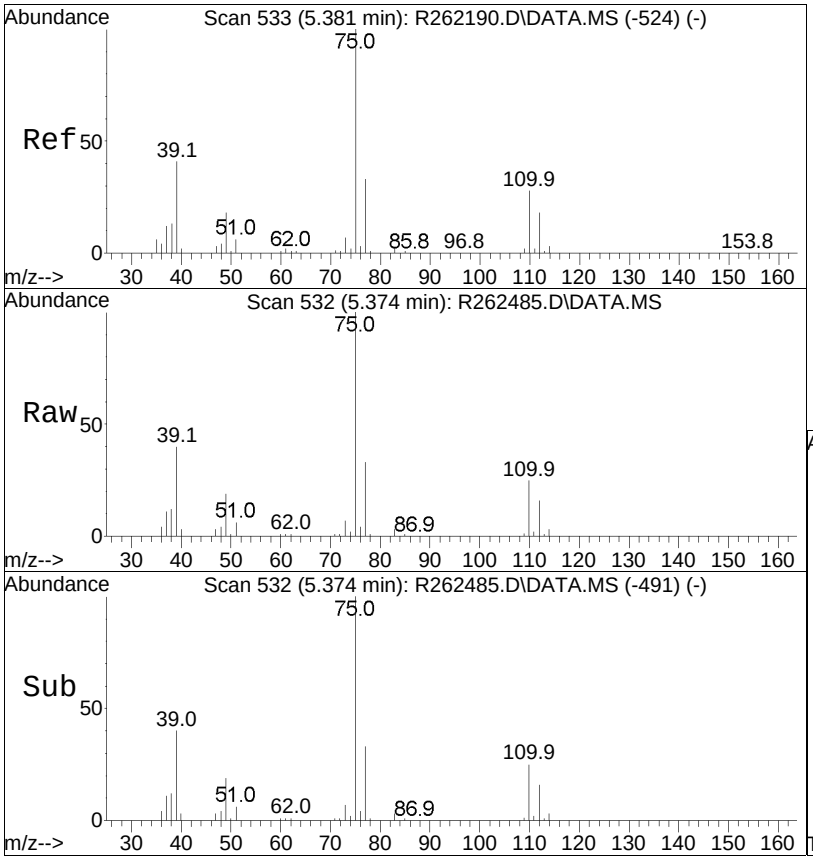


#64
4-methyl-2-pentanone
Concen: 12.29 ppbV
RT: 5.143 min Scan# 503
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 43 Resp: 288088

Ion	Ratio	Lower	Upper
43	100		
58	44.4	34.0	51.0
100	19.4	14.5	21.7

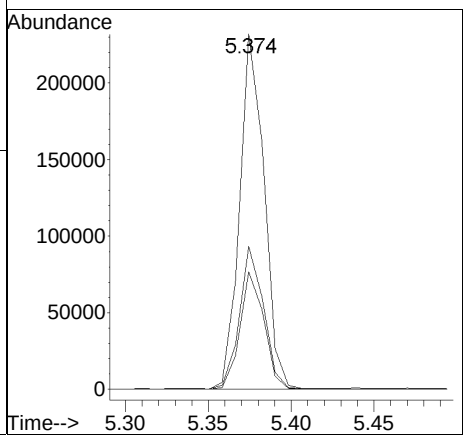


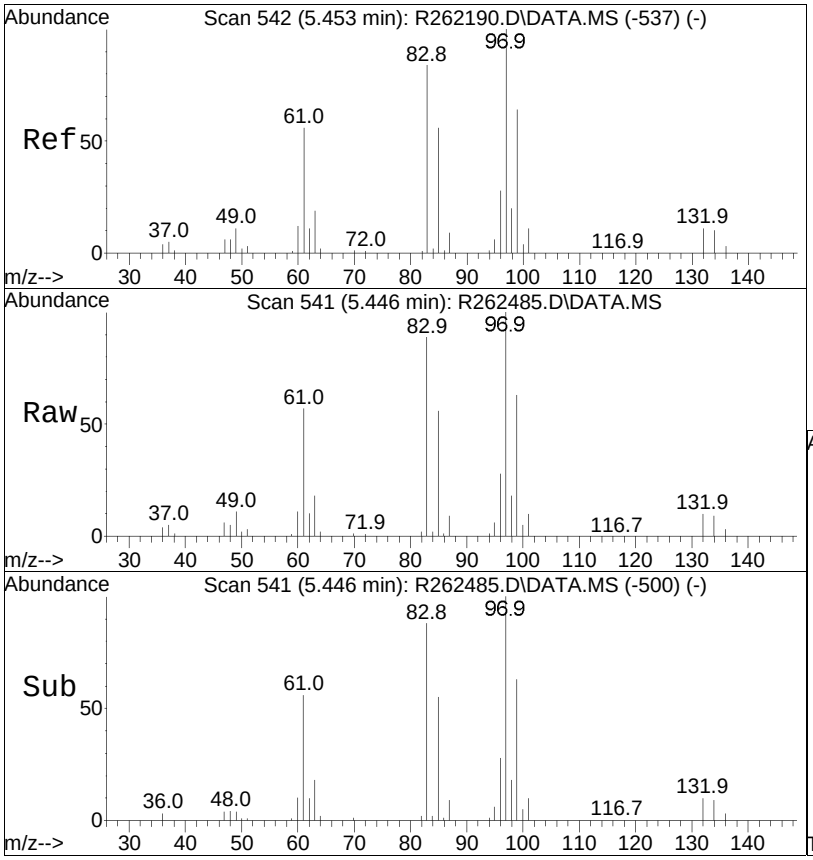


#65
trans-1,3-dichloropropene
Concen: 12.61 ppbV
RT: 5.374 min Scan# 532
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 75 Resp: 239482

Ion	Ratio	Lower	Upper
75	100		
77	33.1	26.1	39.1
39	40.3	31.9	47.9

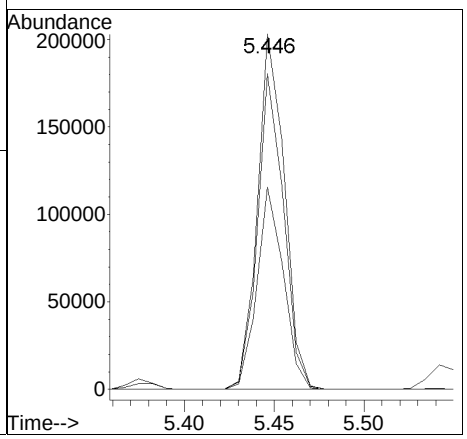


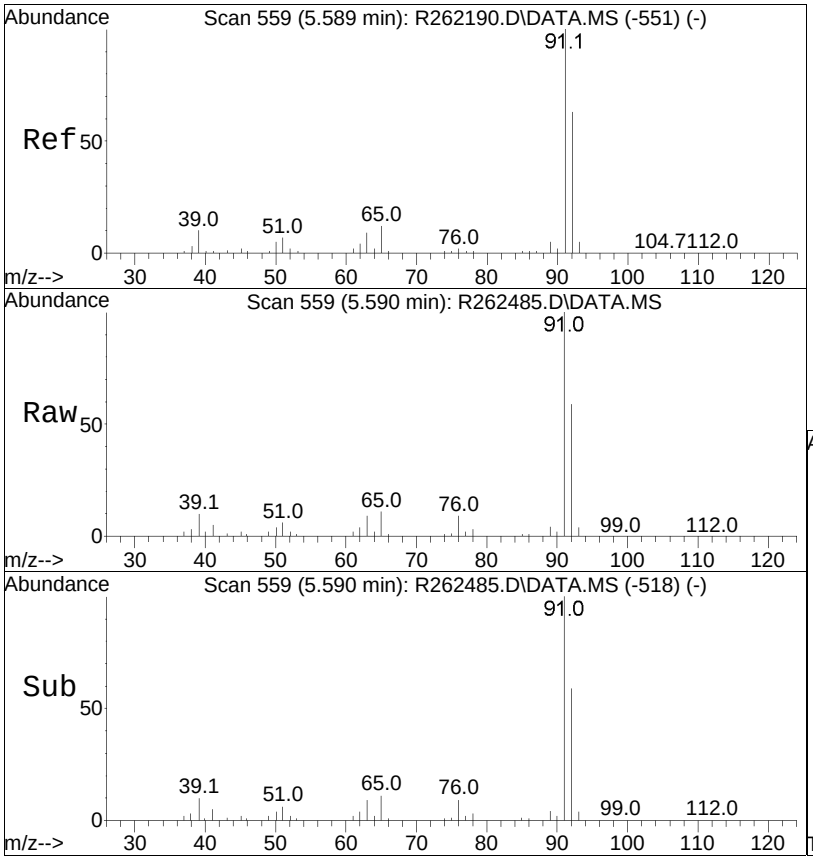


#66
1,1,2-trichloroethane
Concen: 11.10 ppbV
RT: 5.446 min Scan# 541
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 97 Resp: 212950

Ion	Ratio	Lower	Upper
97	100		
83	88.8	71.1	106.7
61	56.9	48.6	73.0

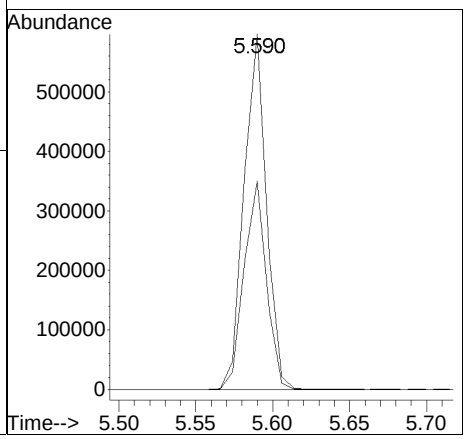


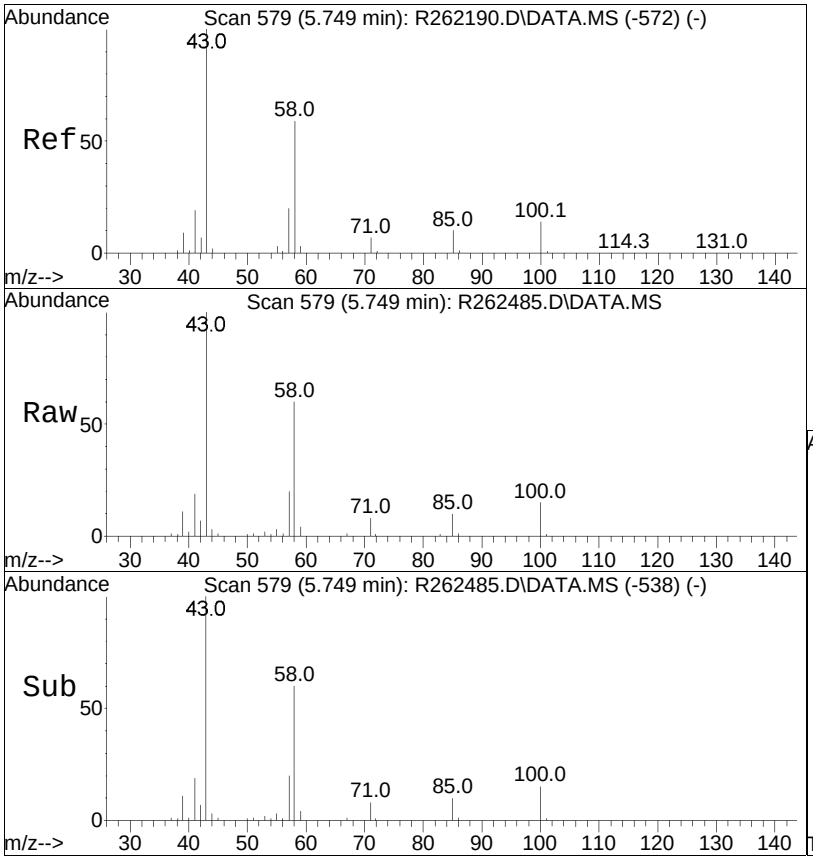


#68
toluene
Concen: 11.74 ppbV
RT: 5.590 min Scan# 559
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 91 Resp: 603908

Ion	Ratio	Lower	Upper
91	100		
92	58.6	46.4	69.6

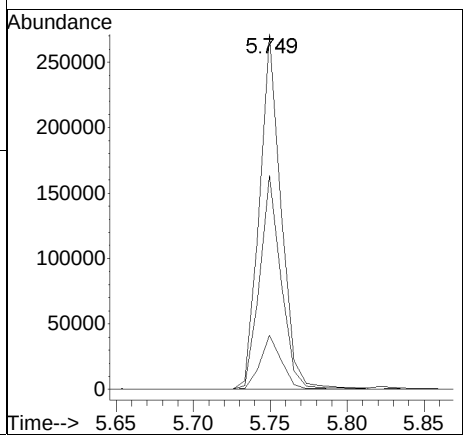


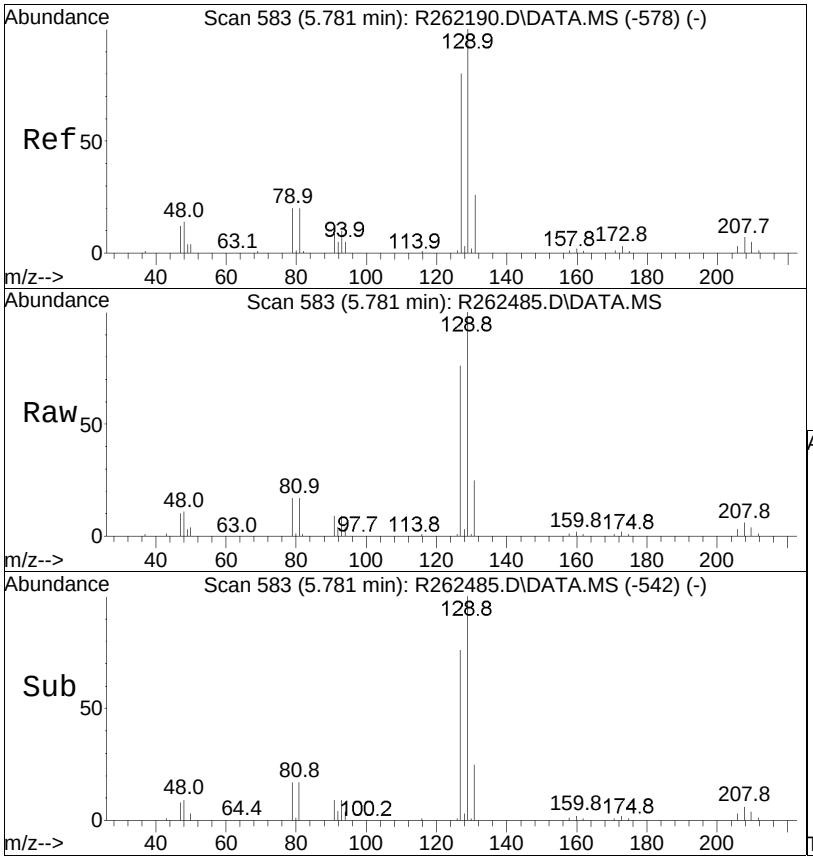


#72
2-hexanone
Concen: 12.61 ppbV
RT: 5.749 min Scan# 579
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 43 Resp: 267571

Ion	Ratio	Lower	Upper
43	100		
58	60.3	46.2	69.2
100	15.3	12.2	18.2

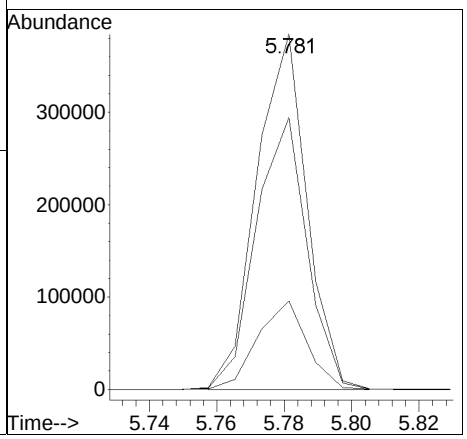


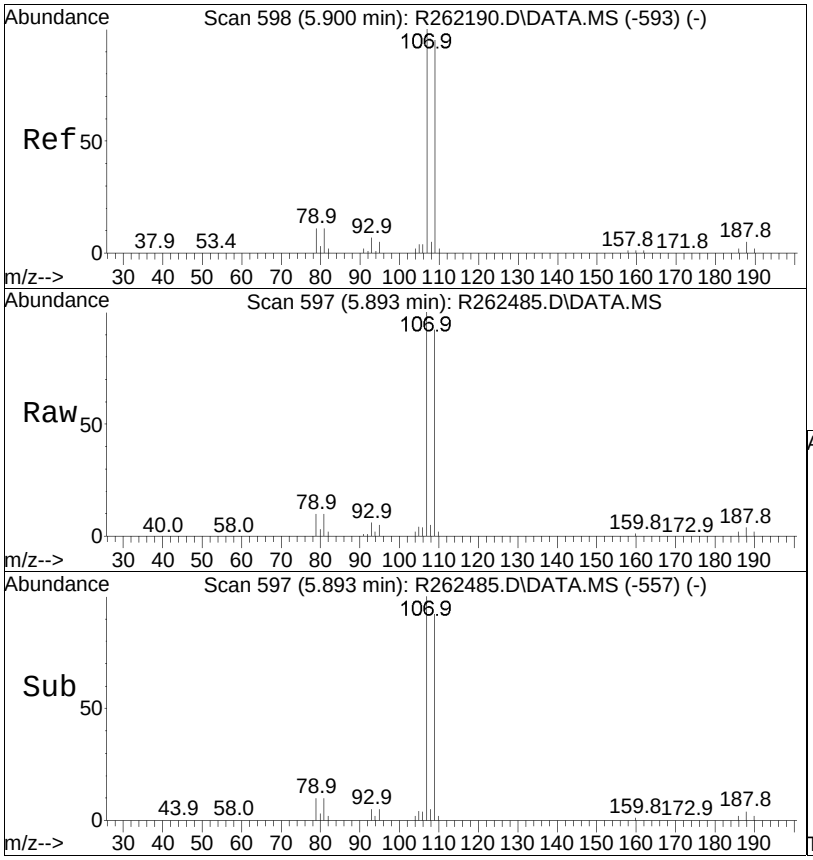


#74
dibromochloromethane
Concen: 13.81 ppbV m
RT: 5.781 min Scan# 583
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:129 Resp: 399235

Ion	Ratio	Lower	Upper
129	100		
127	76.5	62.1	93.1
131	24.9	19.0	28.6

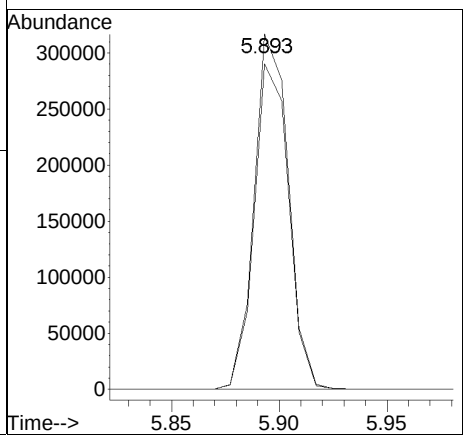


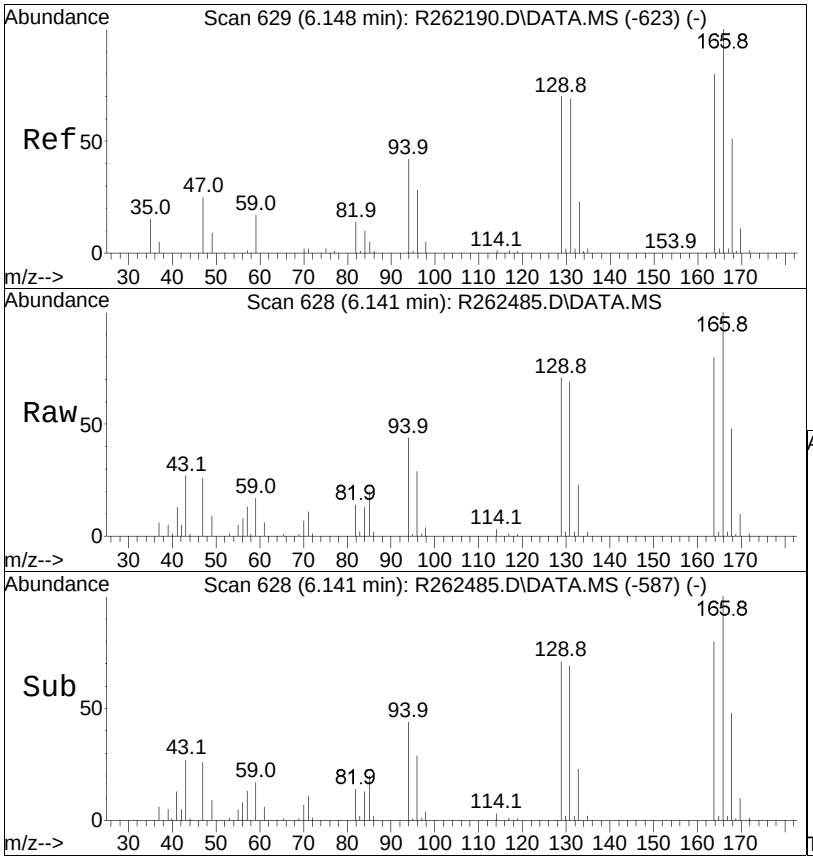


#75
1,2-dibromoethane
Concen: 12.32 ppbV
RT: 5.893 min Scan# 597
Delta R.T. -0.007 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:107 Resp: 351513

Ion	Ratio	Lower	Upper
107	100		
109	91.6	76.7	115.1

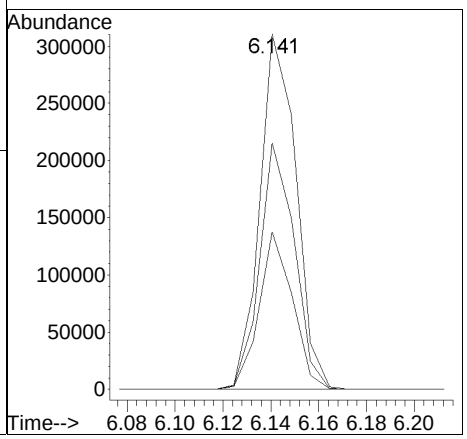


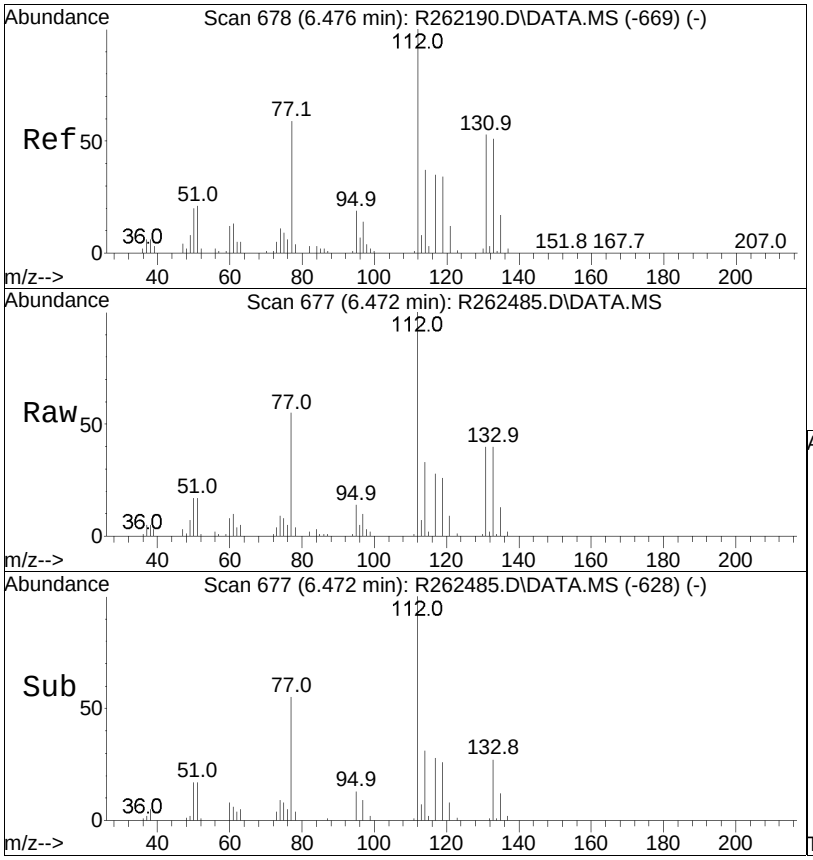


#78
tetrachloroethene
Concen: 11.83 ppbV
RT: 6.141 min Scan# 628
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:166 Resp: 326459

Ion	Ratio	Lower	Upper
166	100		
131	69.4	56.6	85.0
94	44.3	36.2	54.2

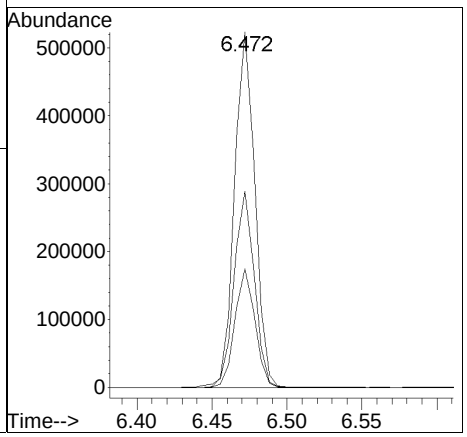


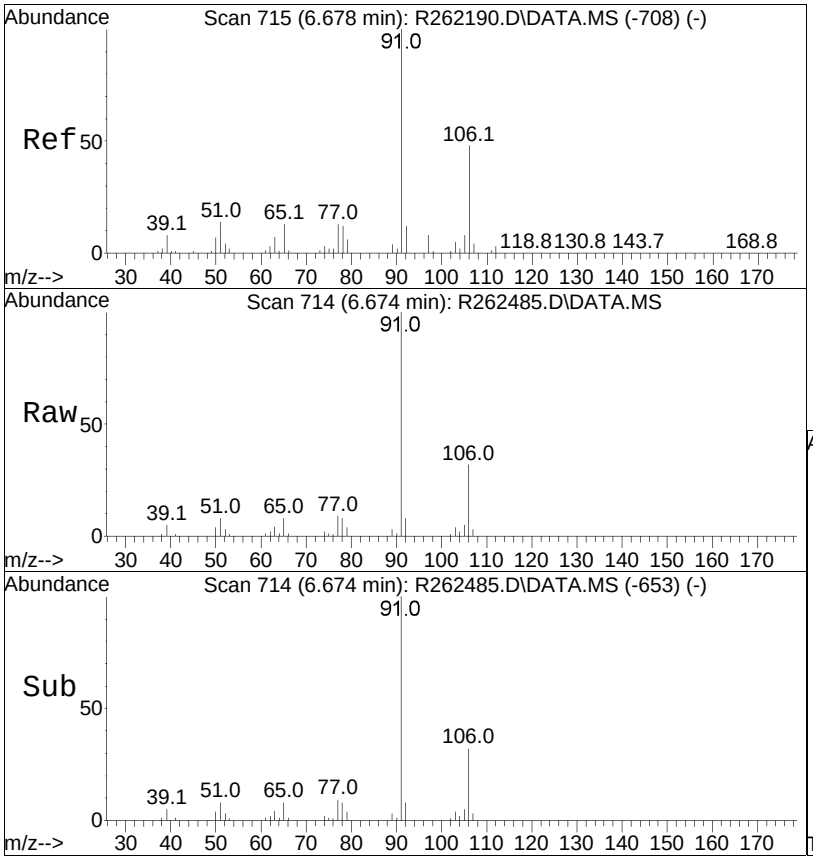


#80
chlorobenzene
Concen: 11.47 ppbV
RT: 6.472 min Scan# 677
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:112 Resp: 493908

Ion	Ratio	Lower	Upper
112	100		
114	33.4	25.7	38.5
77	55.3	43.0	64.6

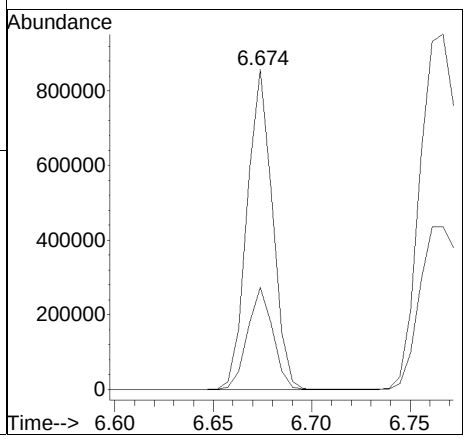


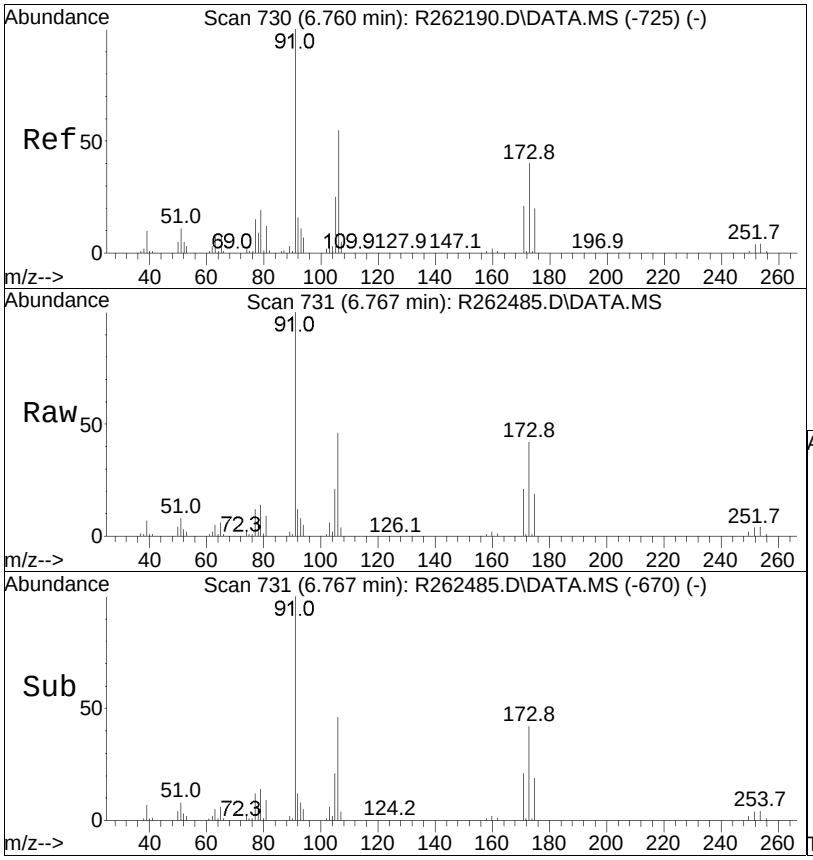


#81
ethylbenzene
Concen: 11.88 ppbV
RT: 6.674 min Scan# 714
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 91 Resp: 768652

Ion	Ratio	Lower	Upper
91	100		
106	31.9	25.3	37.9

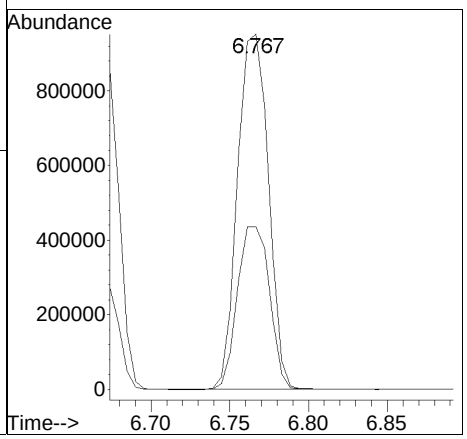


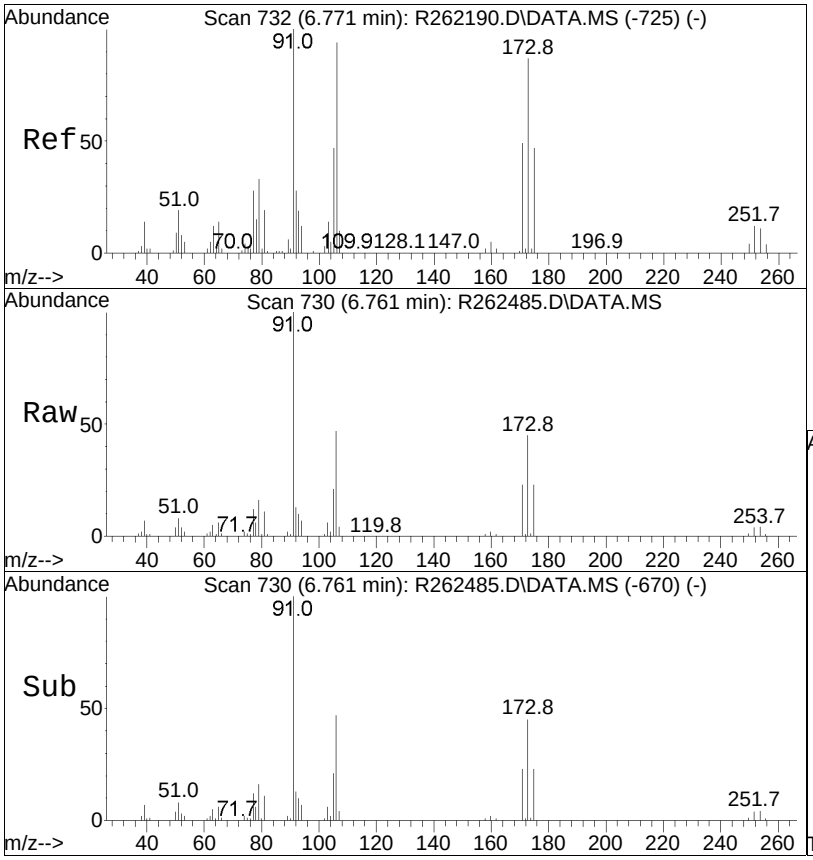


#83
m+p-xylene
Concen: 25.04 ppbV
RT: 6.767 min Scan# 731
Delta R.T. 0.001 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 91 Resp: 1301066

Ion	Ratio	Lower	Upper
91	100		
106	45.8	38.6	57.8

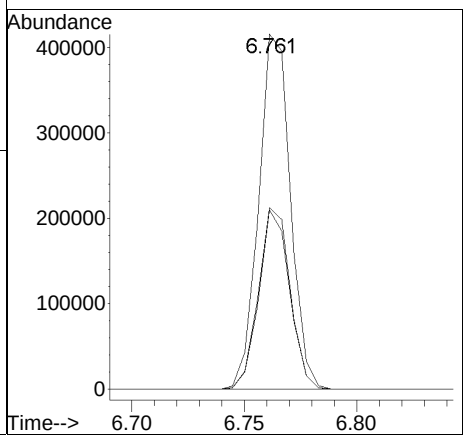


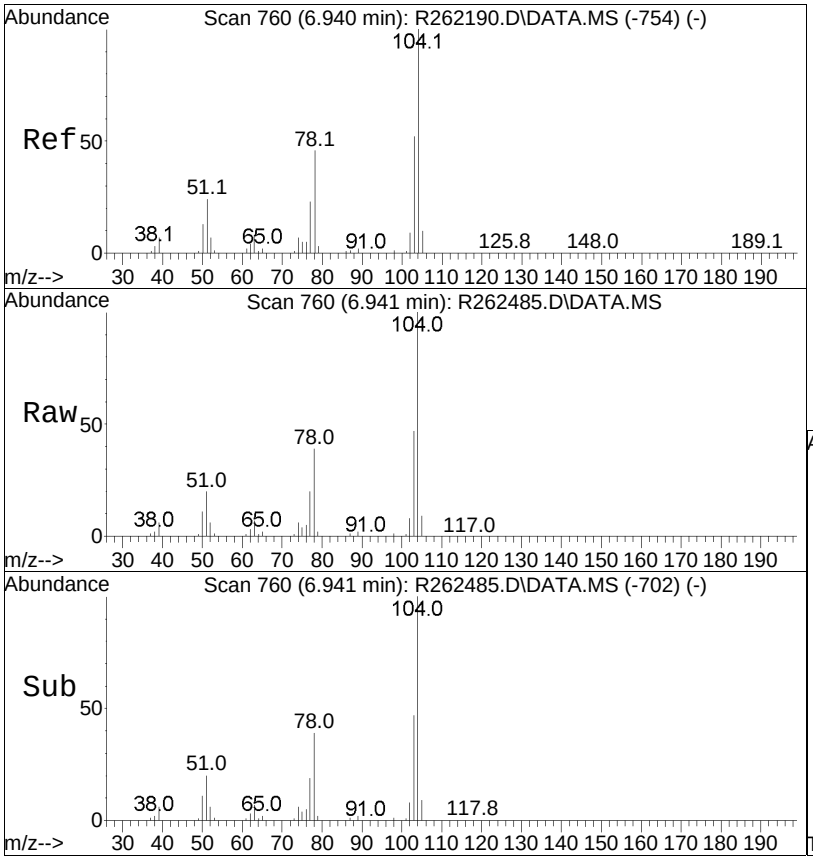


#84
bromoform
Concen: 14.01 ppbV
RT: 6.761 min Scan# 730
Delta R.T. -0.005 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:173 Resp: 408300

Ion	Ratio	Lower	Upper
173	100		
175	50.5	39.5	59.3
171	51.1	41.4	62.2

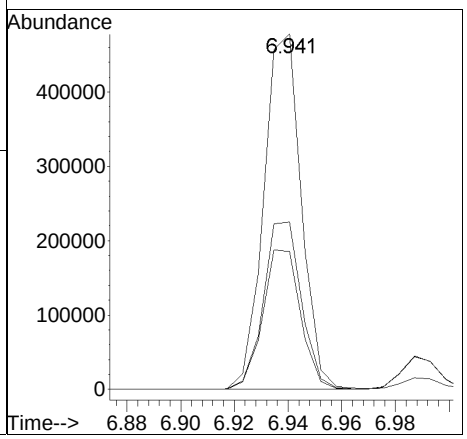


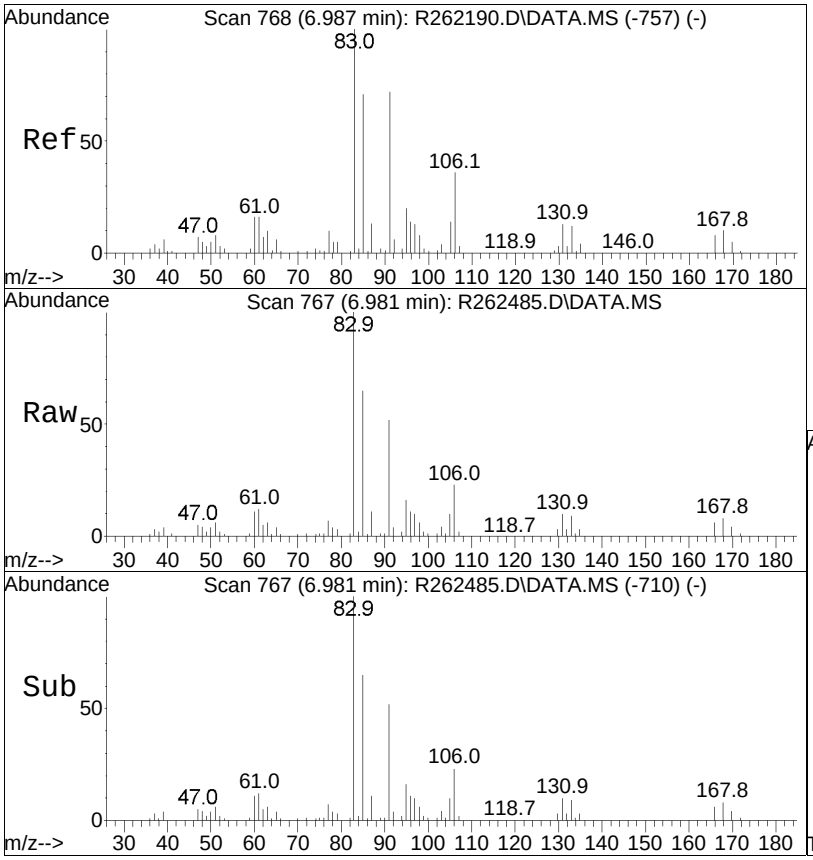


#85
styrene
Concen: 12.16 ppbV
RT: 6.941 min Scan# 760
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:104 Resp: 464669

Ion	Ratio	Lower	Upper
104	100		
103	47.1	38.0	57.0
78	38.8	30.8	46.2

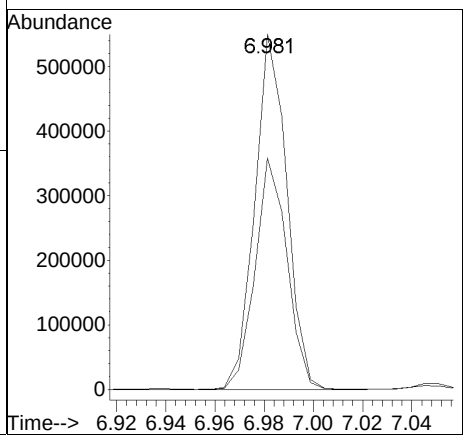


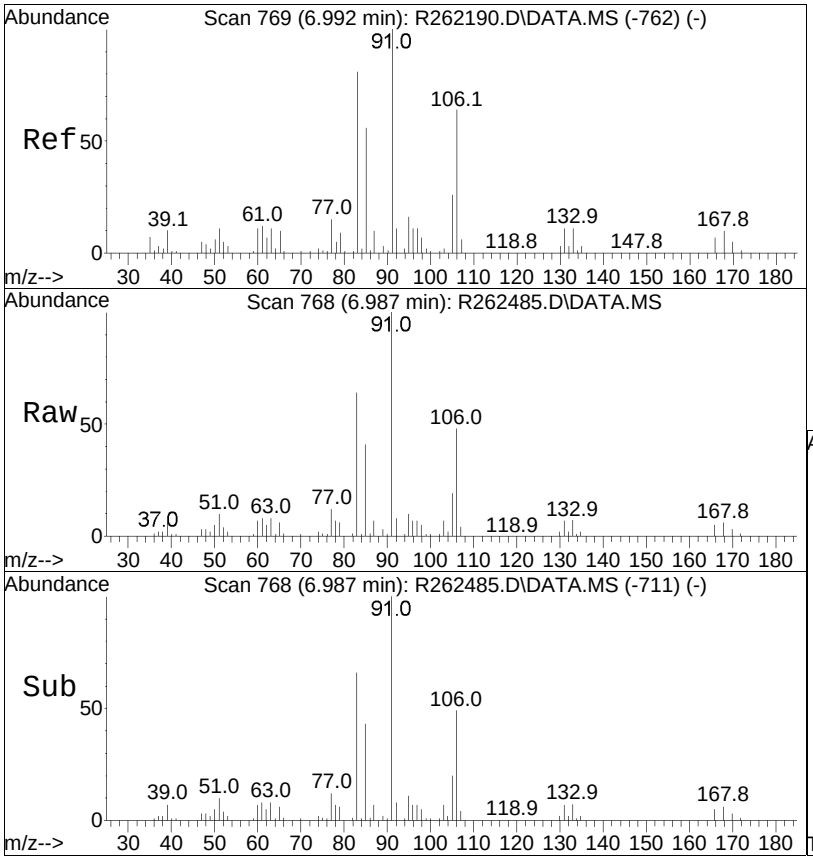


#86
1,1,2,2-tetrachloroethane
Concen: 12.18 ppbV
RT: 6.981 min Scan# 767
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 83 Resp: 497622

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.7	77.5

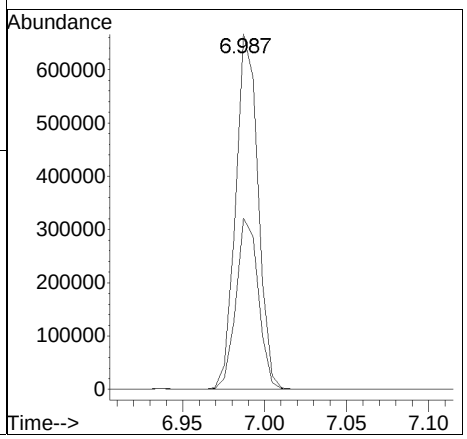


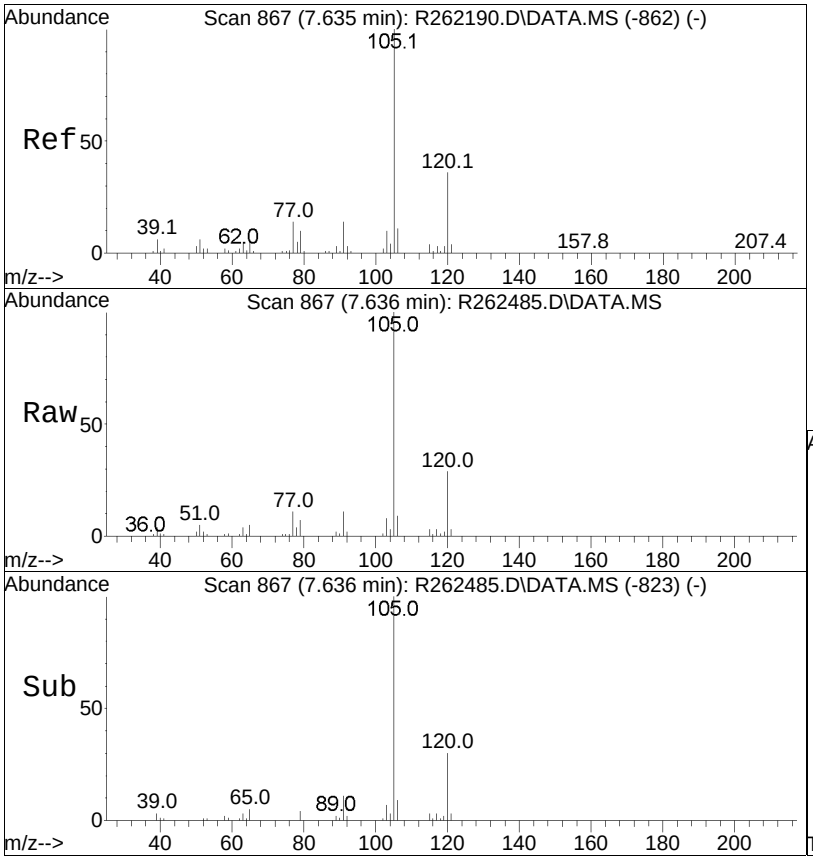


#87
o-xylene
Concen: 12.15 ppbV
RT: 6.987 min Scan# 768
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 91 Resp: 633922

Ion	Ratio	Lower	Upper
91	100		
106	48.2	39.2	58.8

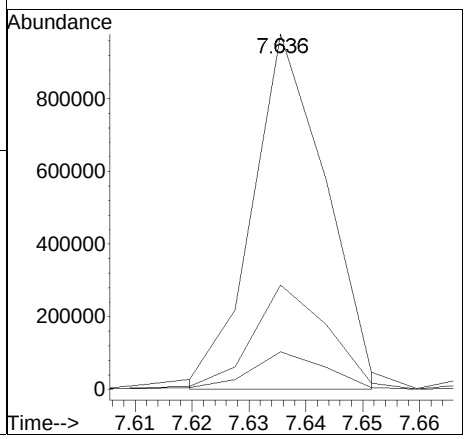


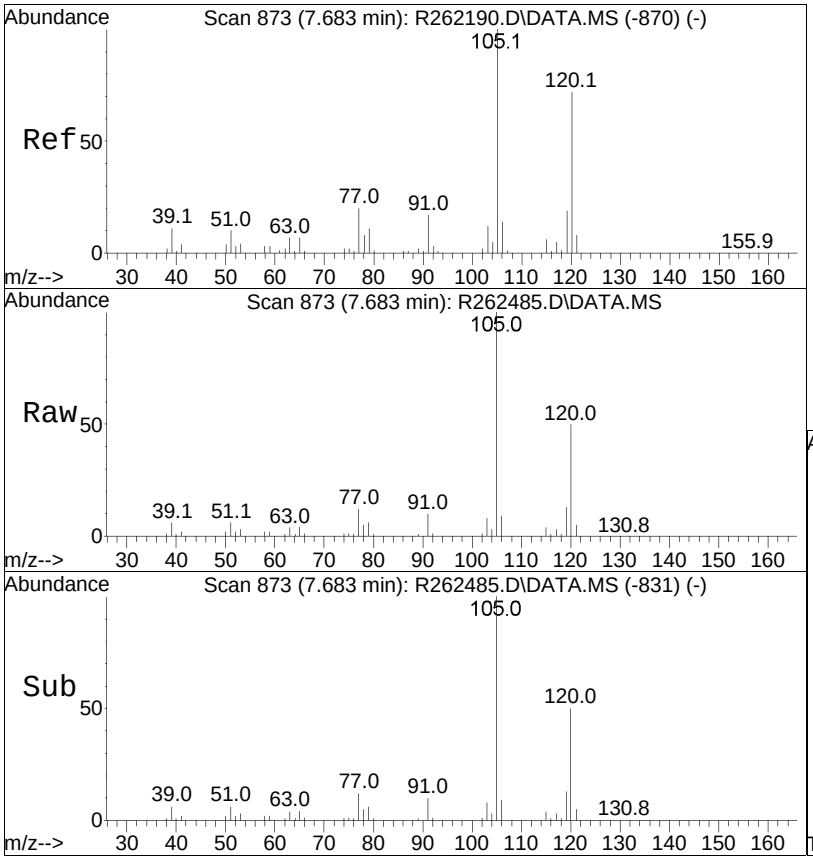


#96
4-ethyl toluene
Concen: 14.11 ppbV m
RT: 7.636 min Scan# 867
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:105 Resp: 873880

Ion	Ratio	Lower	Upper
105	100		
120	29.4	24.4	36.6
91	10.6	8.8	13.2

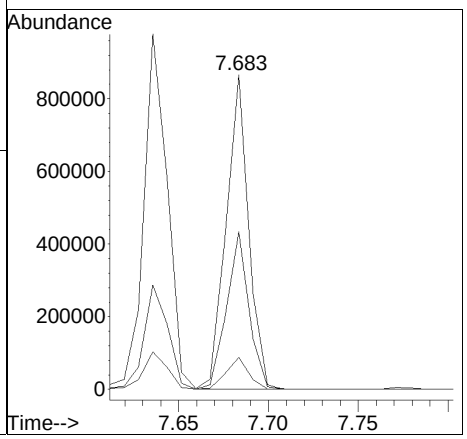


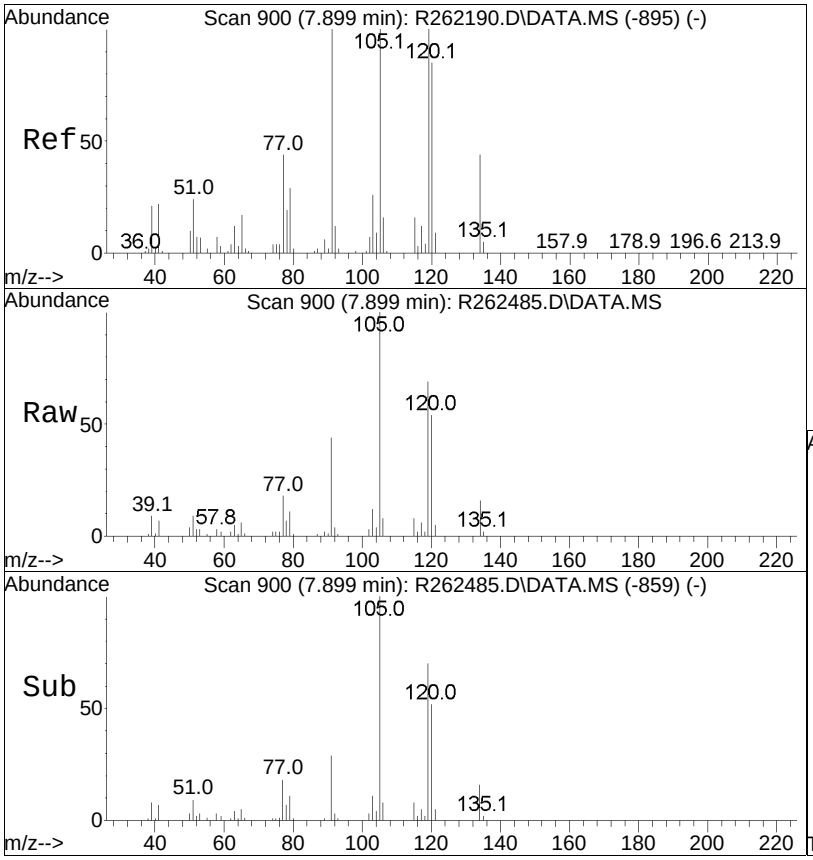


#97
1,3,5-trimethylbenzene
Concen: 12.92 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:105 Resp: 754614

Ion	Ratio	Lower	Upper
105	100		
120	50.1	40.1	60.1
91	10.2	8.4	12.6

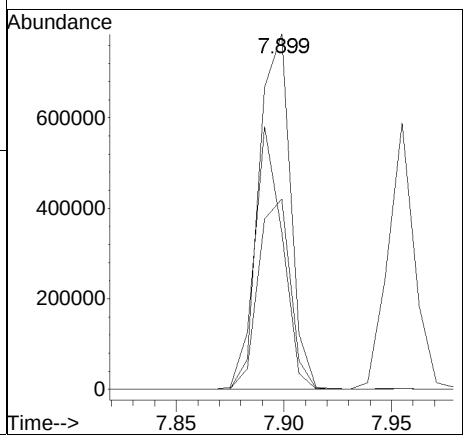


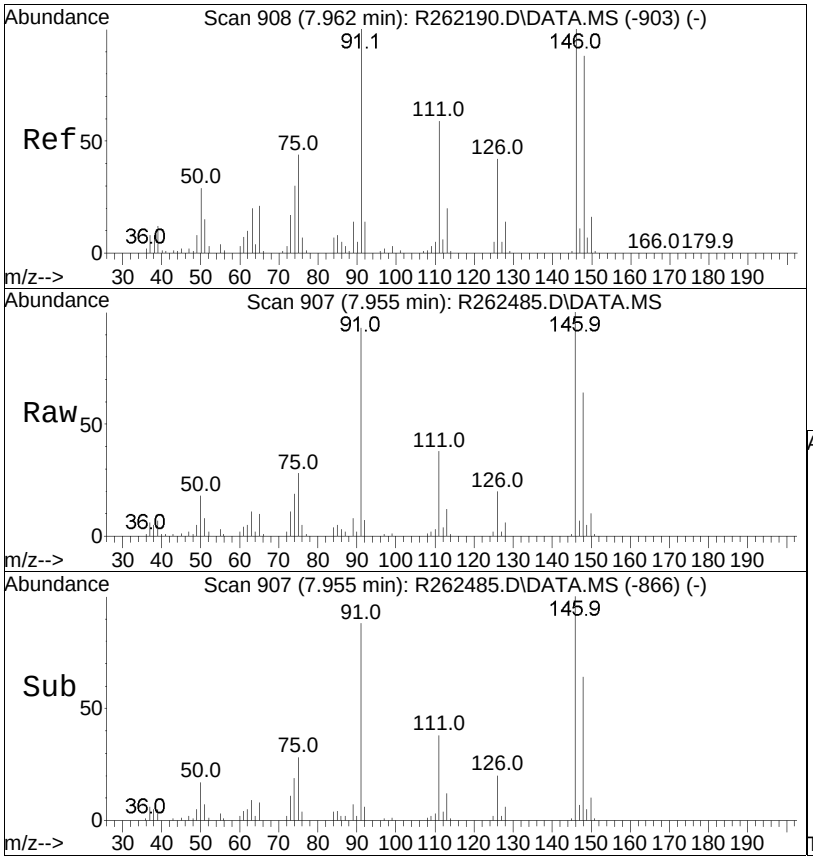


#99
1,2,4-trimethylbenzene
Concen: 12.78 ppbV
RT: 7.899 min Scan# 900
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:105 Resp: 791240

Ion	Ratio	Lower	Upper
105	100		
120	53.6	43.6	65.4
91	44.3	37.5	56.3

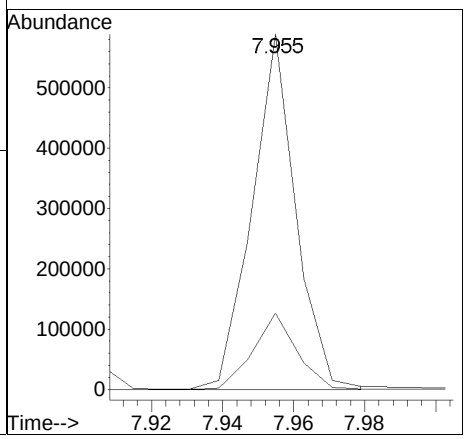


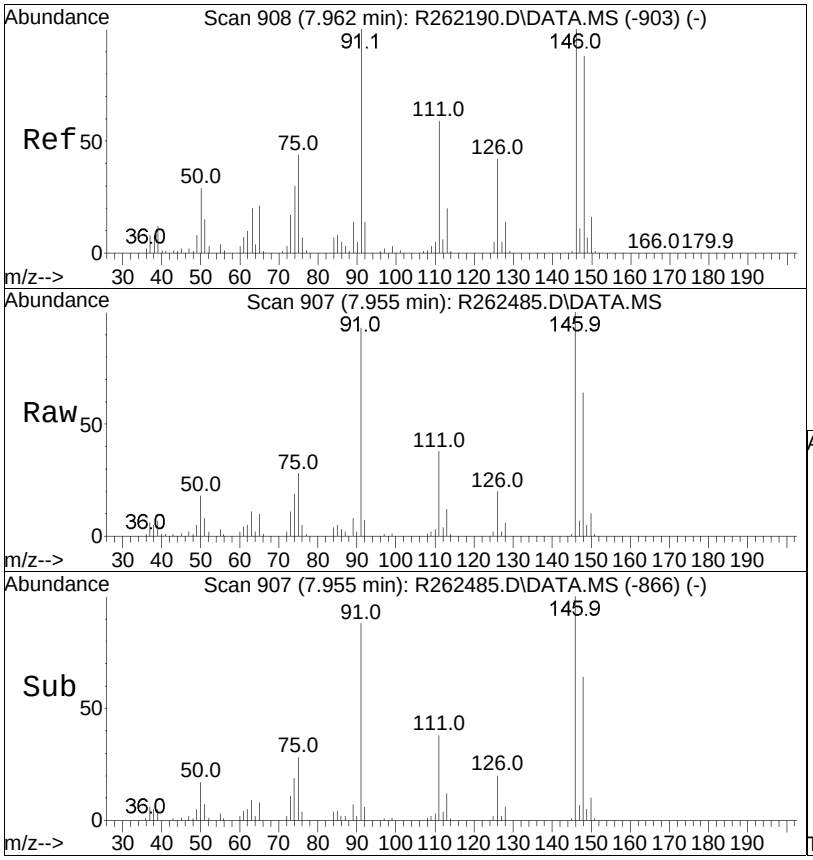


#101
Benzyl Chloride
Concen: 13.22 ppbV m
RT: 7.955 min Scan# 907
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion: 91 Resp: 502551

Ion	Ratio	Lower	Upper
91	100		
126	21.5	17.7	26.5

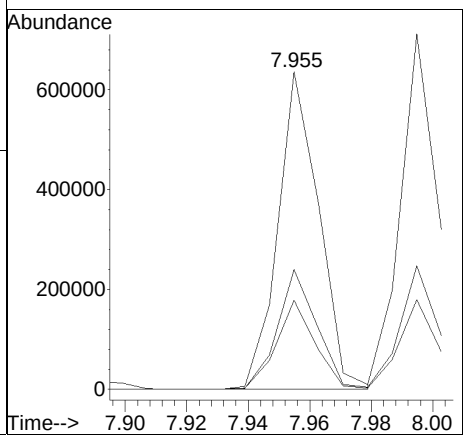


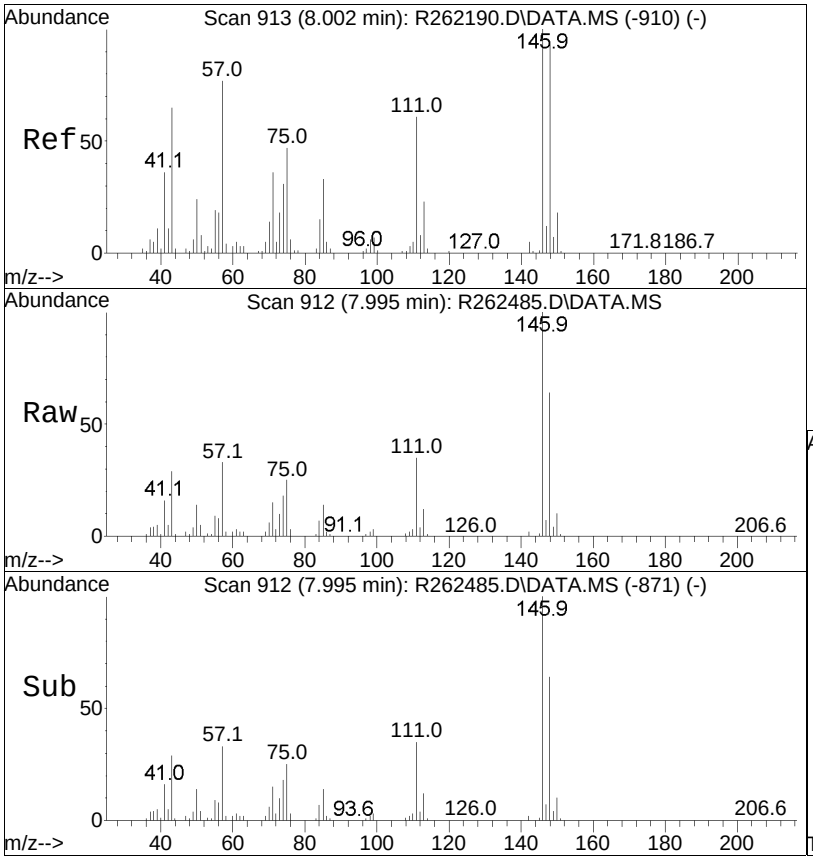


#102
1,3-dichlorobenzene
Concen: 12.48 ppbV
RT: 7.955 min Scan# 907
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:146 Resp: 587270

Ion	Ratio	Lower	Upper
146	100		
111	37.7	30.9	46.3
75	28.1	22.6	34.0

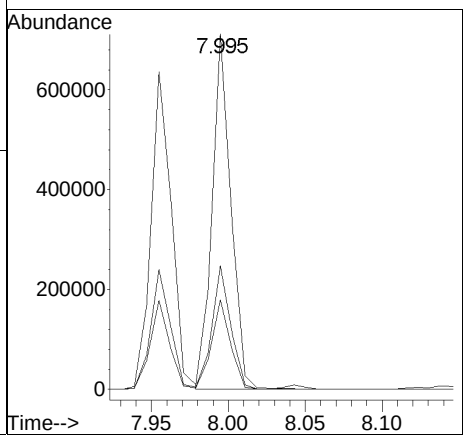


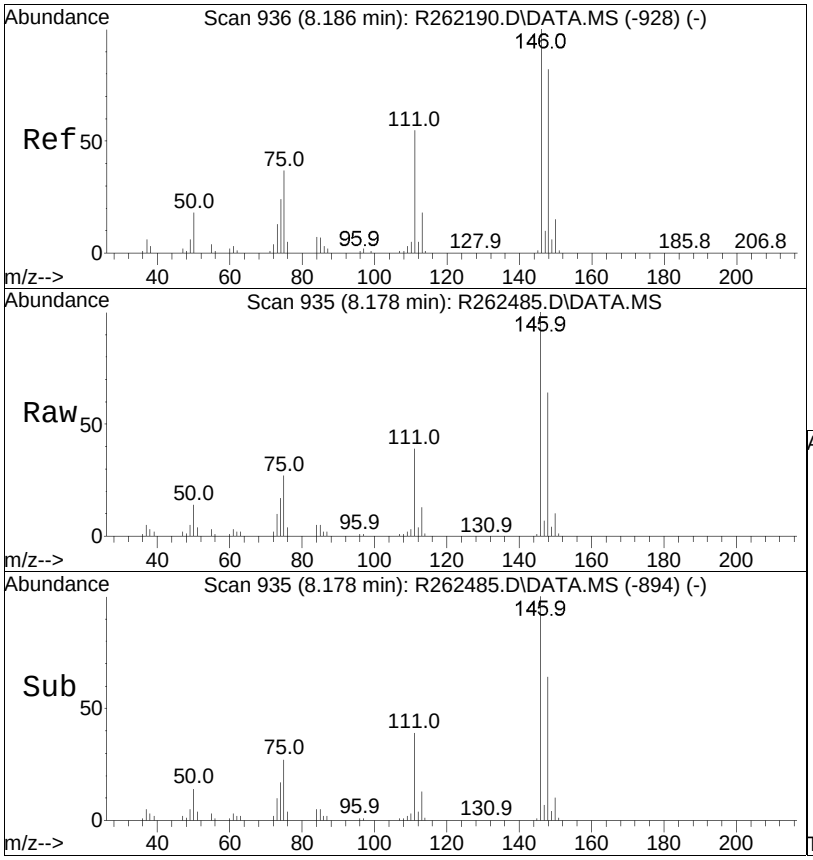


#103
1,4-dichlorobenzene
Concen: 12.64 ppbV
RT: 7.995 min Scan# 912
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:146 Resp: 607165

Ion	Ratio	Lower	Upper
146	100		
111	34.8	29.9	44.9
75	25.2	23.0	34.4

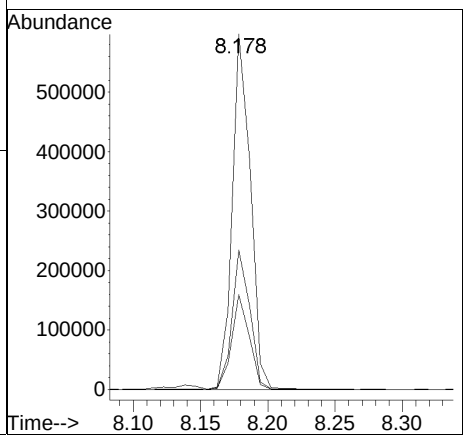


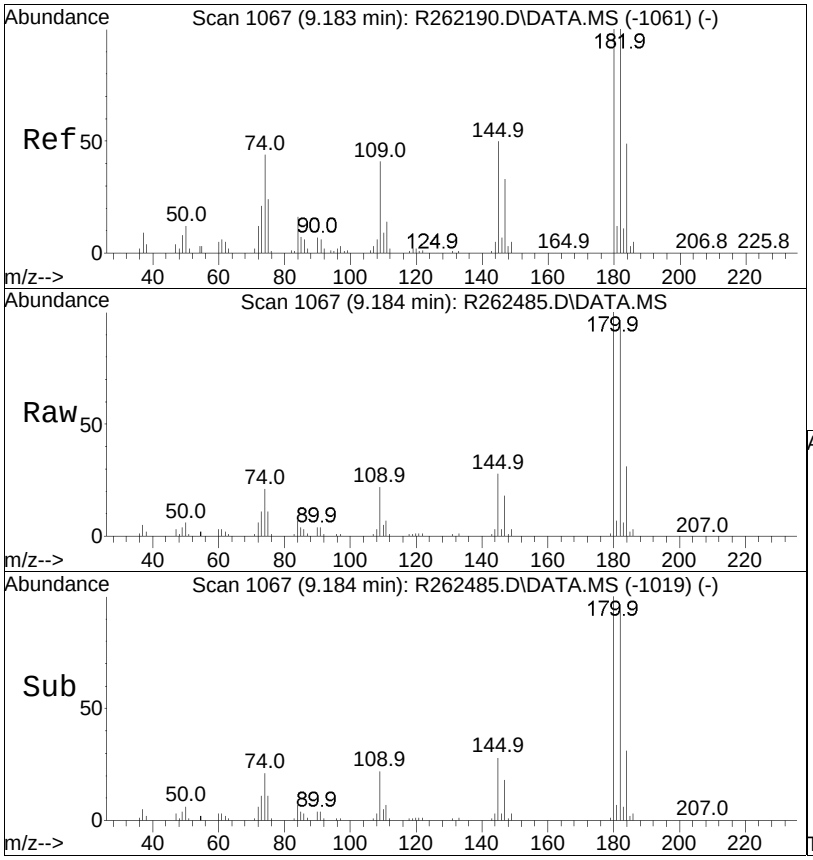


#107
1,2-dichlorobenzene
Concen: 12.43 ppbV
RT: 8.178 min Scan# 935
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:146 Resp: 562982

Ion	Ratio	Lower	Upper
146	100		
111	39.3	30.8	46.2
75	26.7	22.6	34.0

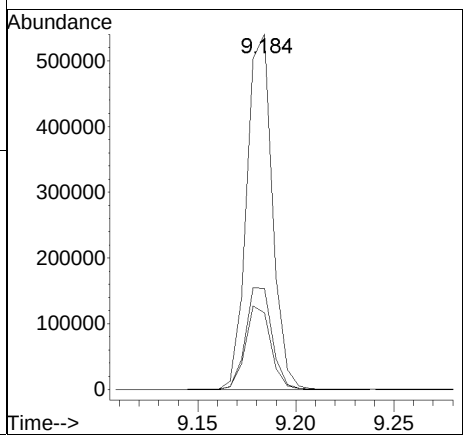


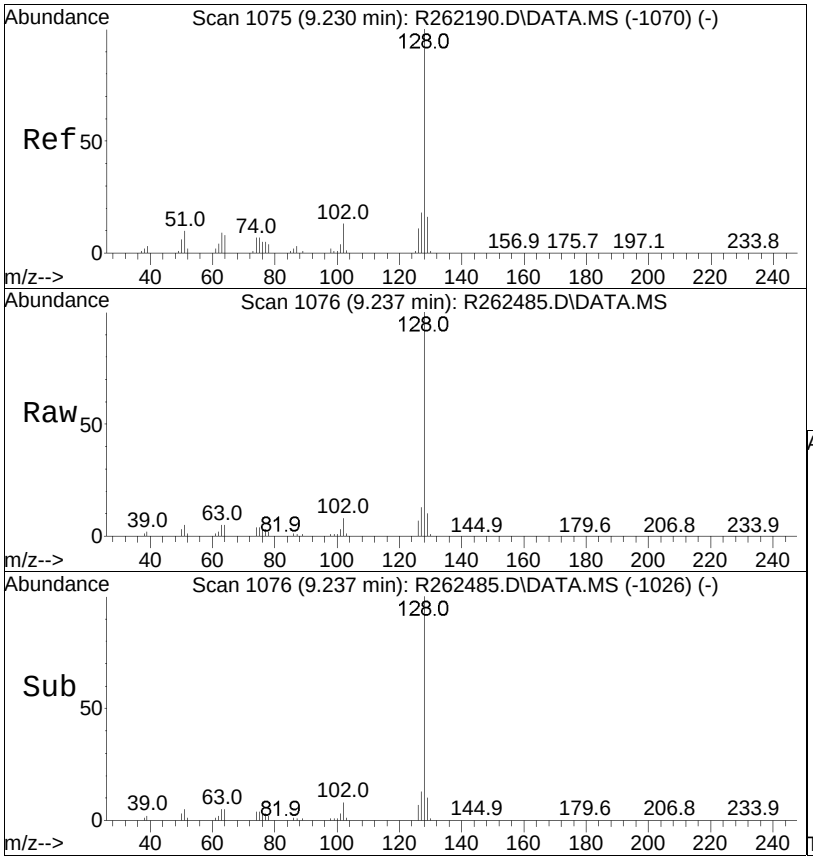


#115
1,2,4-trichlorobenzene
Concen: 11.57 ppbV
RT: 9.184 min Scan# 1067
Delta R.T. 0.006 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:180 Resp: 493236

Ion	Ratio	Lower	Upper
180	100		
145	28.4	23.9	35.9
109	21.6	19.4	29.0

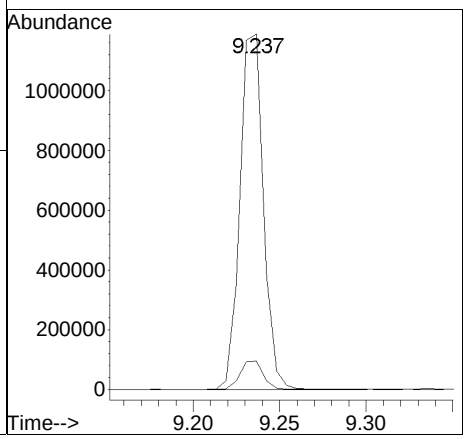


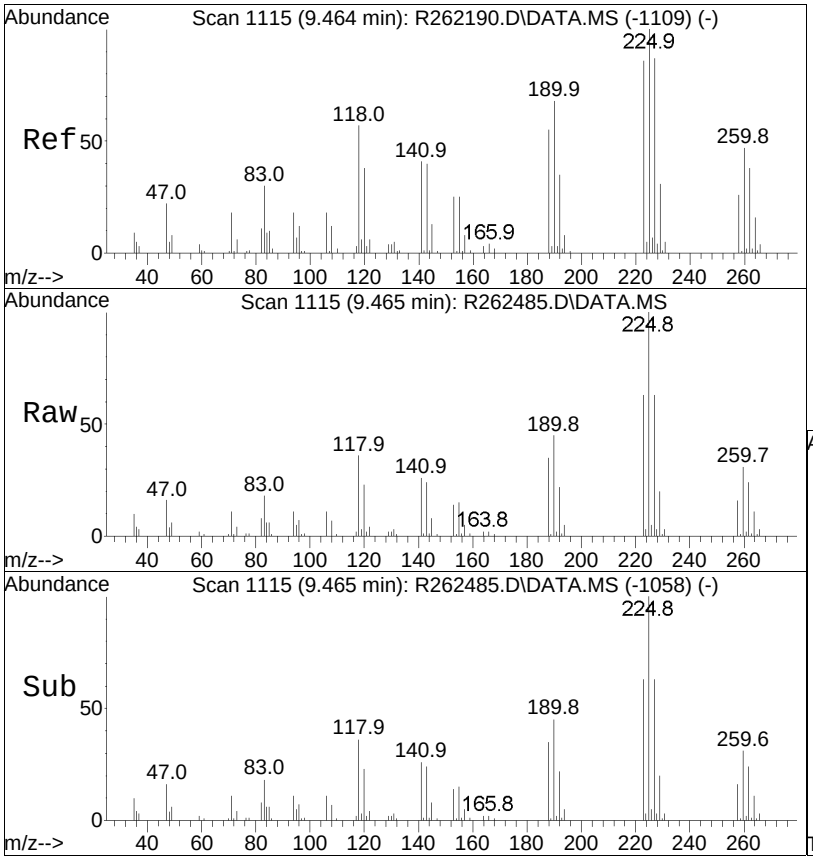


#116
naphthalene
Concen: 12.58 ppbV
RT: 9.237 min Scan# 1076
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:128 Resp: 1123228

Ion	Ratio	Lower	Upper
128	100		
102	8.0	6.4	9.6

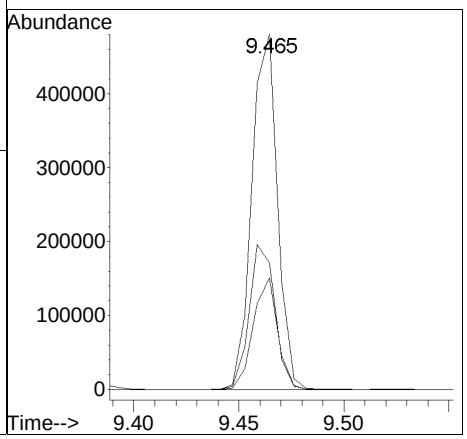




#119
hexachlorobutadiene
Concen: 10.85 ppbV
RT: 9.465 min Scan# 1115
Delta R.T. 0.000 min
Lab File: R262485.D
Acq: 27 Mar 2025 12:22 pm

Tgt Ion:225 Resp: 407711

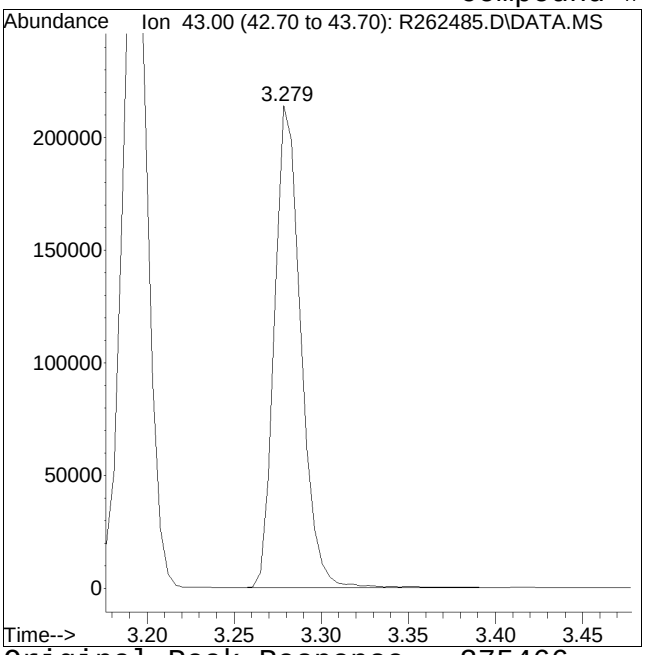
Ion	Ratio	Lower	Upper
225	100		
260	31.4	25.0	37.6
118	35.6	28.4	42.6



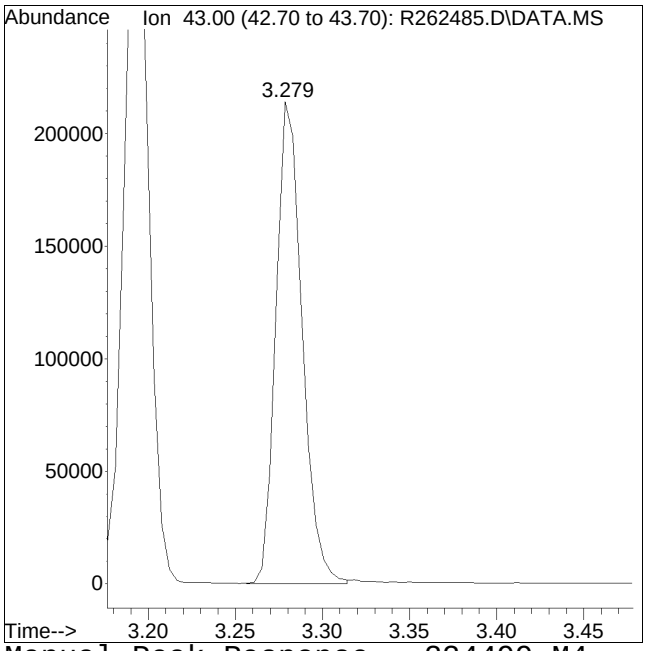
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #36: 2-butanone



Original Peak Response = 275466



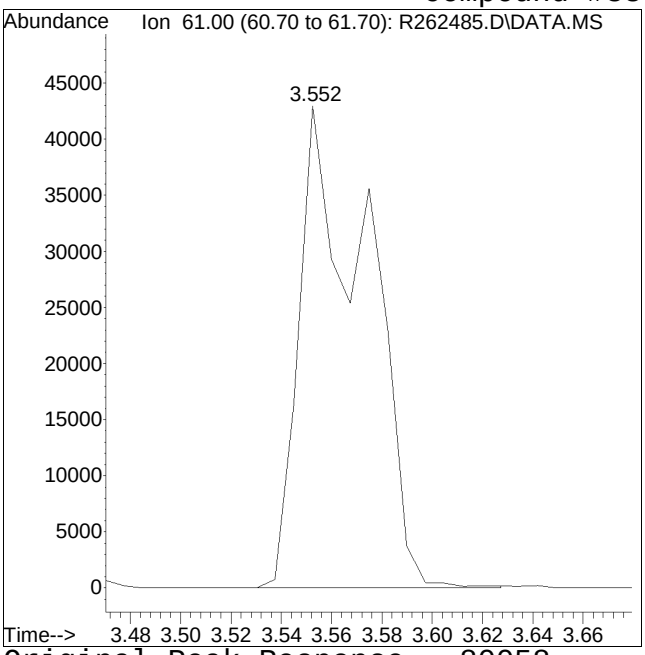
Manual Peak Response = 224499 M4

M4 = Poor automated baseline construction.

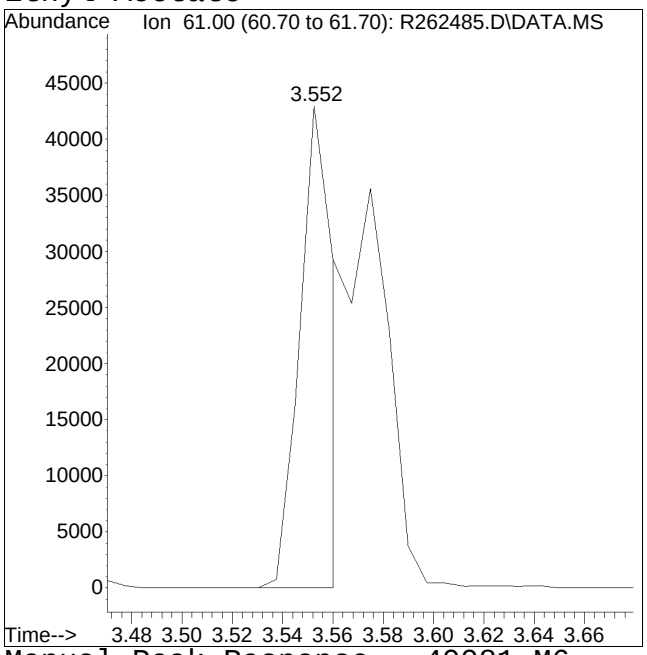
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #38: Ethyl Acetate



Original Peak Response = 80058



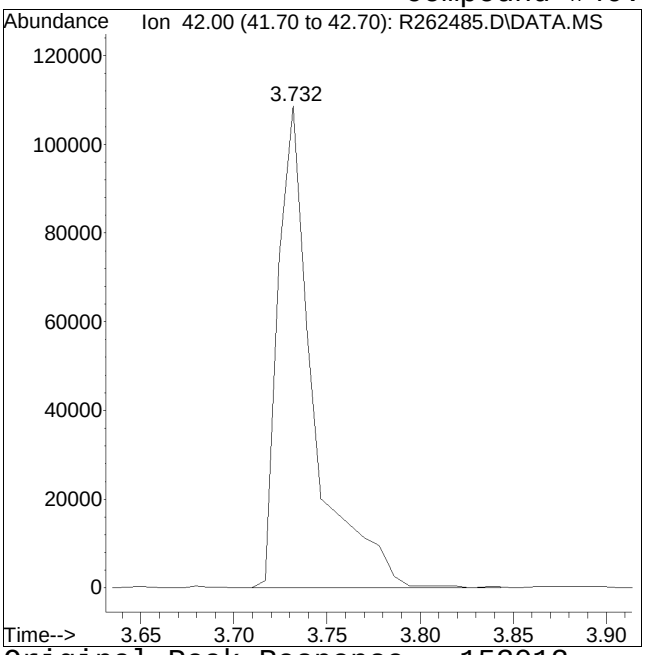
Manual Peak Response = 40081 M6

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

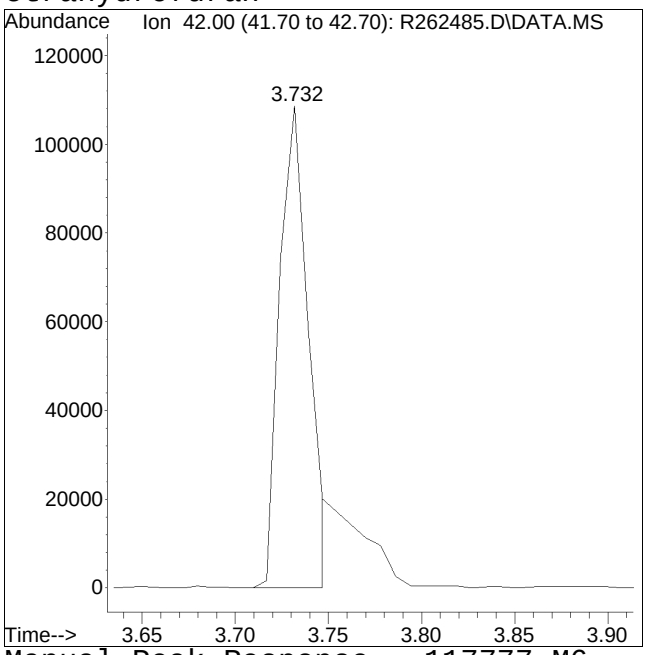
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 153012



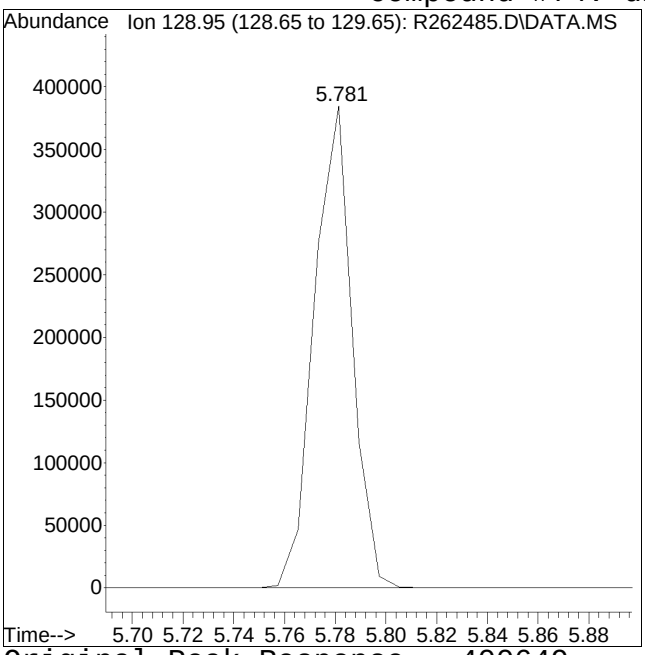
Manual Peak Response = 117777 M6

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

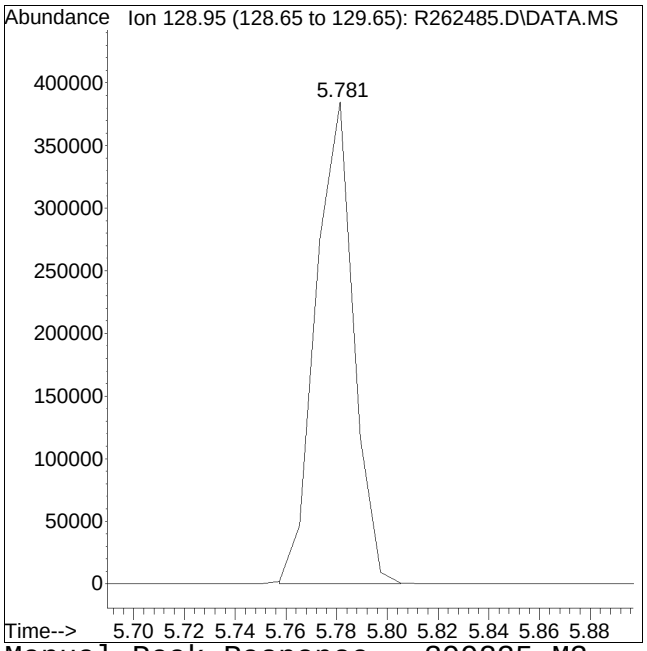
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #74: dibromochloromethane



Original Peak Response = 400649



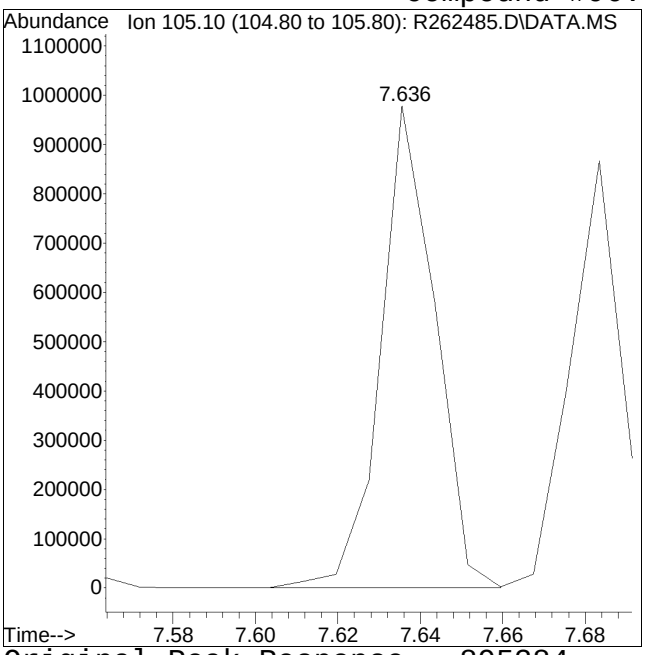
Manual Peak Response = 399235 M3

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.

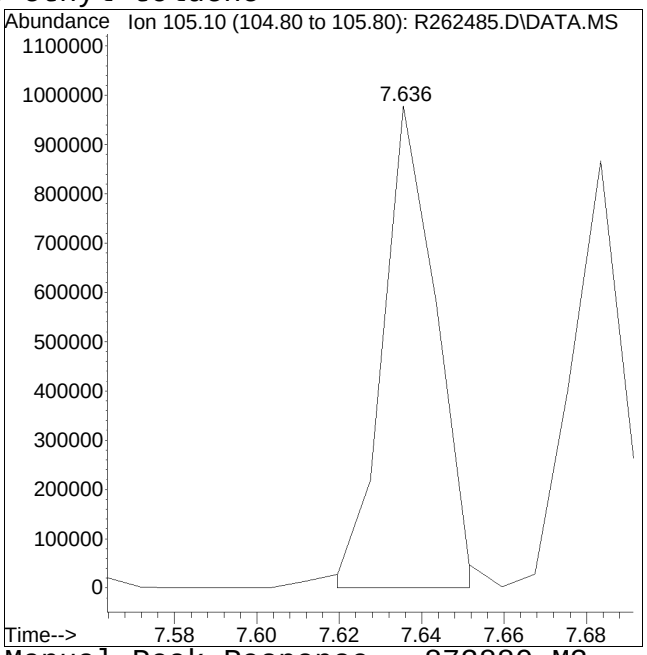
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #96: 4-ethyl toluene



Original Peak Response = 895384



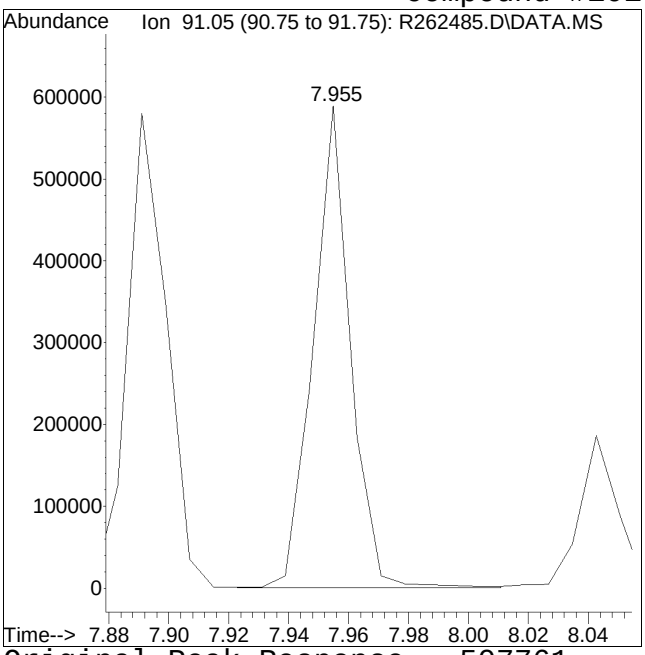
Manual Peak Response = 873880 M3

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.

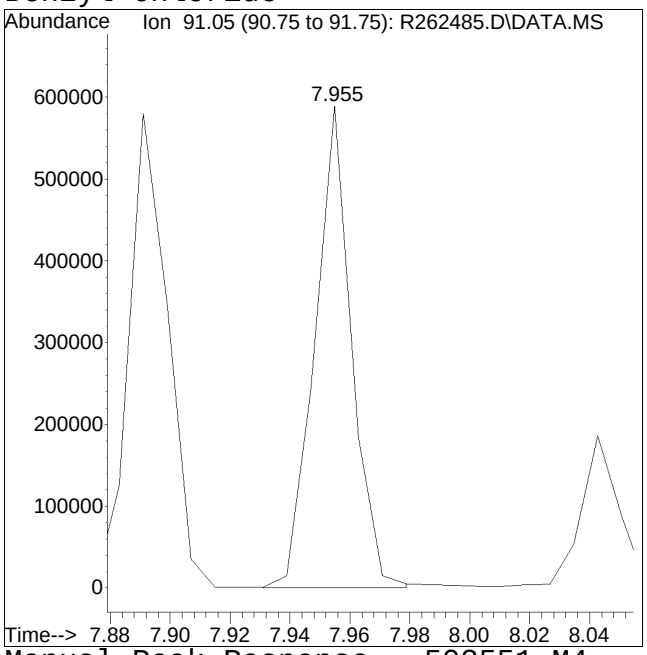
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250314.M
Data File : R262485.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:22 pm Instrument : Airlab26
Sample : WG2046188-3,3,250,250 Quant Date : 3/27/2025 2:47 pm

Compound #101: Benzyl Chloride



Original Peak Response = 507761



Manual Peak Response = 502551 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262513.D
Acq On : 28 Mar 2025 09:09 am
Operator : AIRLAB26:TPH
Sample : WG2046188-5D,3,15,250
Misc : WG2046188,ICAL22092
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 12:06:19 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327T\R262484.D
Sub List : ETOH_Only - Sub List Unknown

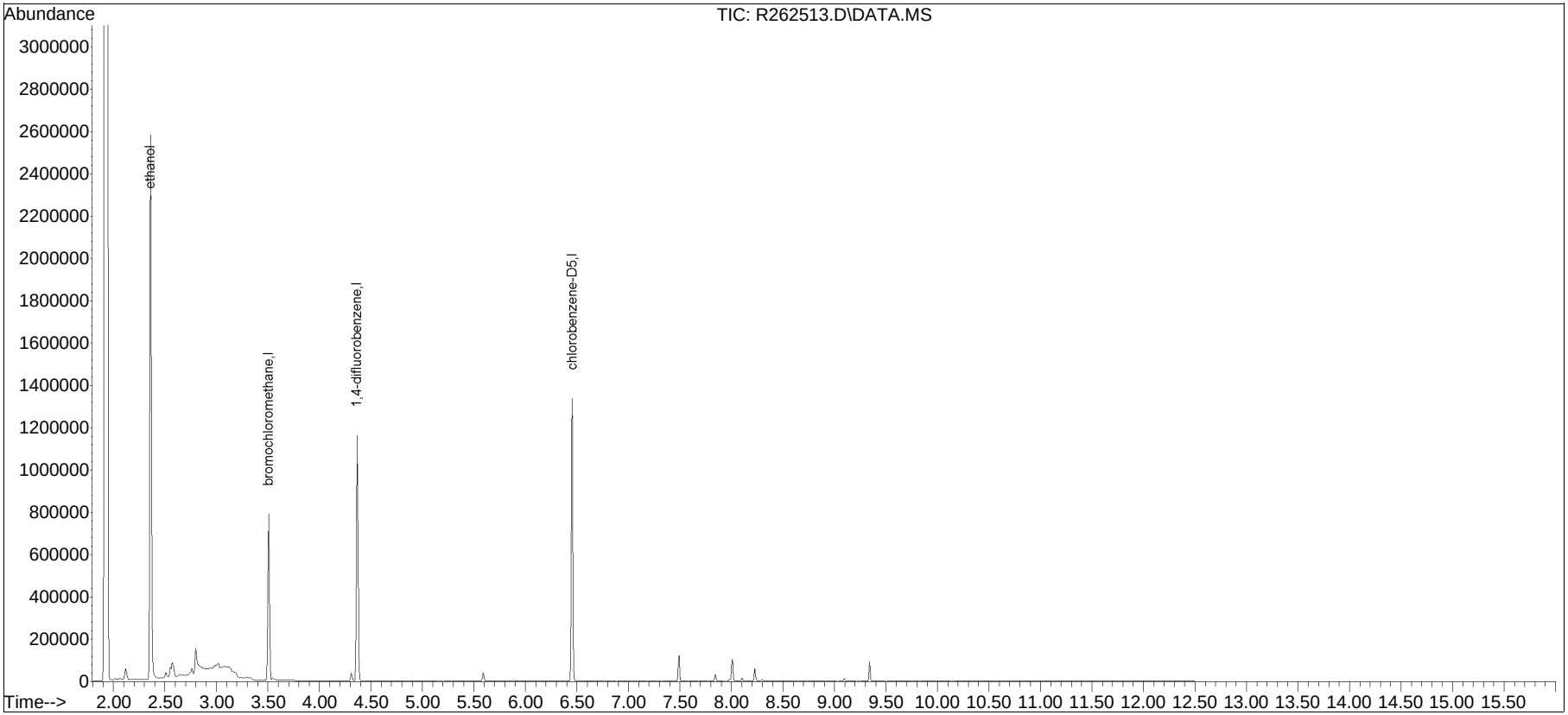
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	176121	10.000	ppbV	0.00
Standard Area = 175168			Recovery = 100.54%			
43) 1,4-difluorobenzene	4.366	114	561202	10.000	ppbV	0.00
Standard Area = 612528			Recovery = 91.62%			
67) chlorobenzene-D5	6.455	54	86341	10.000	ppbV	0.00
Standard Area = 94640			Recovery = 91.23%			
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	2.360	31	1118023	140.310	ppbV	98

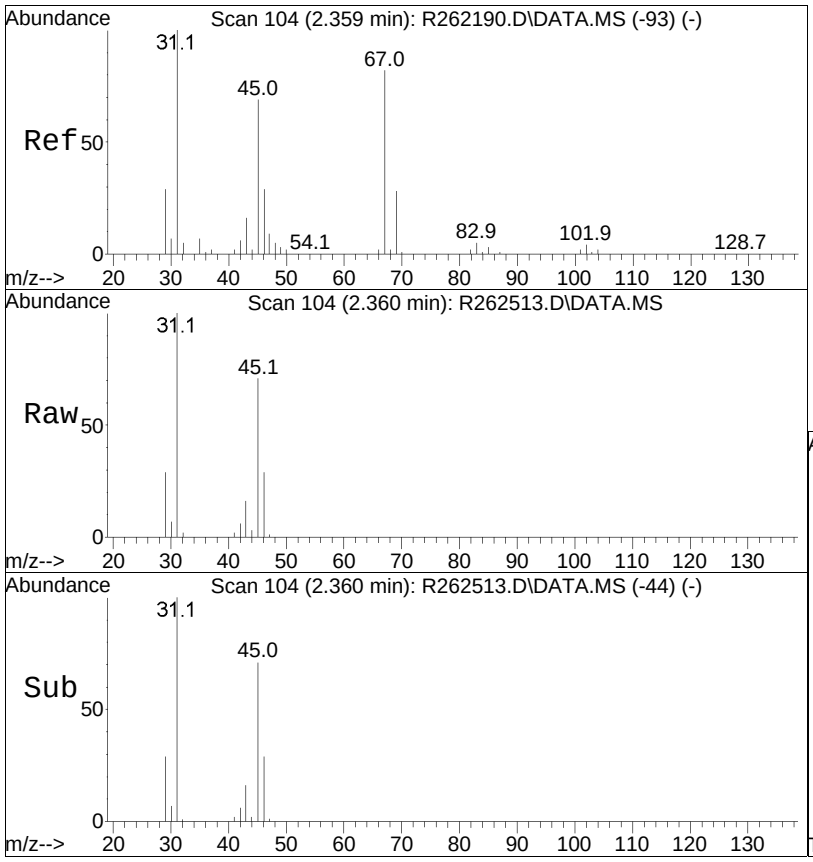
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown\03\0327T\R262484.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327T\
Data File : R262513.D
Acq On : 28 Mar 2025 09:09 am
Operator : AIRLAB26:TPH
Sample : WG2046188-5D,3,15,250
Misc : WG2046188,ICAL22092
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 12:06:19 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327T\TFS26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration

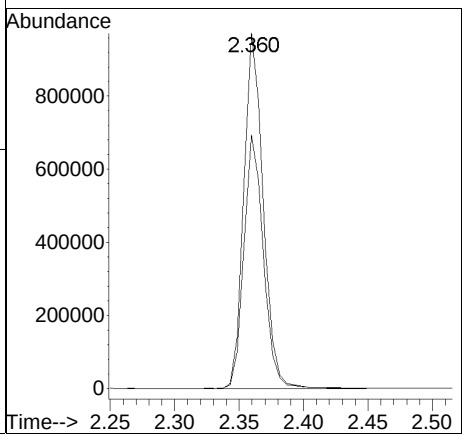




#15
ethanol
Concen: 140.31 ppbV
RT: 2.360 min Scan# 104
Delta R.T. 0.000 min
Lab File: R262513.D
Acq: 28 Mar 2025 09:09 am

Tgt Ion: 31 Resp: 1118023

Ion	Ratio	Lower	Upper
31	100		
45	71.3	55.4	83.2



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TFS26_250314.M
Data File	: R262513.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/28/2025 9:09 am	Instrument	: Airlab26
Sample	: WG2046188-5D,3,15,250	Quant Date	: 3/28/2025 12:06 pm

There are no manual integrations or false positives in this file.

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.

Result, ppbv = C_s x 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
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * 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).

$V_{ci} = 2.7 * Pl/14.696$

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)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 28 2025, 05:20 pm

Work Group: WG2046188 for Department: 3 GC/MS

Created: 27-MAR-25 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2512092-01	IA001	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-02	IA002	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-03	IA003	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-04	IA004	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-05	IA005	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-06	OA001	S	TO15-LL	AIR	DONE	U	0403	0318	S0	Can-6
L2513426-04	VI-IA-1	S	TO15-LL	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-05	VI-IA-2	S	TO15-LL	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-06	VI-IA-3	S	TO15-LL	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-07	VI-OA-1	S	TO15-LL	AIR	DONE	U	0405	0321	S0	Can-2.7
L2514968-01	AA-01_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-02	IA-01_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-03	IA-02_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-04	IA-03_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-05	IA-04_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-06	IA-05_20250314	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-01	IA01_031425	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-02	IA02_031425	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-03	IA03_031425	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-04	IA04_031425	S	TO15-LL	AIR	DONE	U	0413	0321	S0	Can-6
WG2046188-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG2046188-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG2046188-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG2046188-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG2046188-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG2046188-5 L2514977-03

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 03/14/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 250314.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA26031401	TO15_SFS.M	R262179.D	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.M	R262180.D	50mL SS24-044D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.M	R262181.D	125mL SS24-044D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.M	R262182.D	250mL SS24-044D	SIM ONLY	DEF	NA
6	ITO15-LLSTD0.2	TO15_SFS.M	R262183.D	50mL SS24-044C		DEF	NA
6	ITO15-LLSTD0.5	TO15_SFS.M	R262184.D	125mL SS24-044C		DEF	NA
6	ITO15-LLSTD1.0	TO15_SFS.M	R262185.D	250mL SS24-044C		DEF	NA
7	ITO15-LLSTD5.0	TO15_SFS.M	R262186.D	125mL SS24-044B		DEF	NA
7	ITO15-LLSTD10	TO15_SFS.M	R262187.D	250mL SS24-044B		DEF	NA
8	ITO15-LLSTD20	TO15_SFS.M	R262188.D	50mL SS24-044A		DEF	NA
8	ITO15-LLSTD50	TO15_SFS.M	R262189.D	125mL SS24-044A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.M	R262190.D	250mL SS24-044A	LL ONLY	DEF	NA
1	BA23031401	TO15_SFS.M	R262191.D	250mL			NA
1	BA23031402	TO15_SFS.M	R262192.D	250mL			NA
2	CTO15-LLSTD10	TO15_SFS.M	R262193.D	250mL SS24-042G	LL ICV	DO NOT USE	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262194.D	125mL SS24-042G	SIM ICV	DO NOT USE	NA
1	BA23031401	TO15_SFS.M	R262195.D	250mL	use as second tune		NA
2	CTO15-LLSTD10	TO15_SFS.M	R262196.D	250mL SS24-001A	LL ICV	DEF-ICV	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262197.D	125mL SS24-001A	SIM ICV	DEF-ICV	NA

Alpha Analytical Air Lab
Instrument Run Log

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 (ml) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 03/27/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 250327.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA26032601	TO15_SFS.M	R262483.D	250 mL	TUNE		NA
1	CA26032601	TO15_SFS.M	R262484.D	250ML	CC		NA
2	CTO15-LLSTD010	TO15_SFS.M	R262485.D	SS25-005A 250 mL	LL LCS	DCDFM HITS VIA SIM/// NARRATE 4ET HITS/// RISKING BF & BC	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262486.D	SS24-005A 125 mL	SIM LCS		NA
1	BA26032601	TO15_SFS.M	R262487.D	250ML	LL BLANK		NA
1	BA26032602	TO15_SFS.M	R262488.D	250ML	SIM BLANK		NA
1	L2512092-06,3,250,250	TO15_SFS.M	R262489.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2513426-07,3,250,250	TO15_SFS.M	R262490.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
3	L2514968-01,3,250,250	TO15_SFS.M	R262491.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
4	L2514968-02,3,250,250	TO15_SFS.M	R262492.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
5	L2514968-03,3,250,250	TO15_SFS.M	R262493.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
6	L2514968-04,3,250,250	TO15_SFS.M	R262494.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
7	L2514968-05D,3,122.5,250	TO15_SFS.M	R262495.D	WG2046188,ICAL22092	111092/ DCDFM HIT	NY+NAPH-7SIM	Y
8	L2514968-06,3,250,250	TO15_SFS.M	R262496.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01,3,250,250	TO15_SFS.M	R262497.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
10	L2514977-02,3,250,250	TO15_SFS.M	R262498.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03,3,250,250	TO15_SFS.M	R262499.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03DUP,3,250,250	TO15_SFS.M	R262500.D	WG2046188,ICAL22092	LL/SIM DUP	NY+NAPH-7SIM	Y
12	L2514977-04,3,250,250	TO15_SFS.M	R262501.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
13	L2513426-04,3,250,250	TO15_SFS.M	R262502.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
14	L2513426-05,3,250,250	TO15_SFS.M	R262503.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
15	L2513426-06,3,250,250	TO15_SFS.M	R262504.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y

Alpha Analytical Air Lab
Instrument Run Log

16	L2512092-01,3,250,250	TO15_SFS.M	R262505.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
1	L2512092-02,3,250,250	TO15_SFS.M	R262506.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2512092-03,3,250,250	TO15_SFS.M	R262507.D	WG2046188,ICAL22092	IPA OVERCAL DCDFM HIT	NY+NAPH-7SIM	Y
3	L2512092-04,3,250,250	TO15_SFS.M	R262508.D	WG2046188,ICAL22092	DCDFM AND 4ETHTOL HIT	NY+NAPH-7SIM	Y
4	L2512092-05,3,250,250	TO15_SFS.M	R262509.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01D,3,15,250	TO15_SFS.M	R262510.D	WG2046188,ICAL22092		ETOH	Y
10	L2514977-02D,3,15,250	TO15_SFS.M	R262511.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03D,3,15,250	TO15_SFS.M	R262512.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03DUPD,3,15,250	TO15_SFS.M	R262513.D	WG2046188,ICAL22092	LL DUP	ETOH	Y
12	L2514977-04D,3,15,250	TO15_SFS.M	R262514.D	WG2046188,ICAL22092		ETOH	Y
2	L2512092-03D,3,50,250	TO15_SFS.M	R262515.D	WG2046188,ICAL22092		IPA	Y

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 (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 03/27/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 250327.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA26032601	TO15_SFS.M	R262483.D	250 mL	TUNE		NA
1	CA26032601	TO15_SFS.M	R262484.D	250ML	CC		NA
2	CTO15-LLSTD010	TO15_SFS.M	R262485.D	SS25-005A 250 mL	LL LCS	DCDFM HITS VIA SIM/// NARRATE 4ET HITS/// RISKING BF & BC	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262486.D	SS24-005A 125 mL	SIM LCS		NA
1	BA26032601	TO15_SFS.M	R262487.D	250ML	LL BLANK		NA
1	BA26032602	TO15_SFS.M	R262488.D	250ML	SIM BLANK		NA
1	L2512092-06,3,250,250	TO15_SFS.M	R262489.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2513426-07,3,250,250	TO15_SFS.M	R262490.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
3	L2514968-01,3,250,250	TO15_SFS.M	R262491.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
4	L2514968-02,3,250,250	TO15_SFS.M	R262492.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
5	L2514968-03,3,250,250	TO15_SFS.M	R262493.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
6	L2514968-04,3,250,250	TO15_SFS.M	R262494.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
7	L2514968-05D,3,122.5,250	TO15_SFS.M	R262495.D	WG2046188,ICAL22092	111092/ DCDFM HIT	NY+NAPH-7SIM	Y
8	L2514968-06,3,250,250	TO15_SFS.M	R262496.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01,3,250,250	TO15_SFS.M	R262497.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
10	L2514977-02,3,250,250	TO15_SFS.M	R262498.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03,3,250,250	TO15_SFS.M	R262499.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03DUP,3,250,250	TO15_SFS.M	R262500.D	WG2046188,ICAL22092	LL/SIM DUP	NY+NAPH-7SIM	Y
12	L2514977-04,3,250,250	TO15_SFS.M	R262501.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
13	L2513426-04,3,250,250	TO15_SFS.M	R262502.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
14	L2513426-05,3,250,250	TO15_SFS.M	R262503.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
15	L2513426-06,3,250,250	TO15_SFS.M	R262504.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y

Alpha Analytical Air Lab

Instrument Run Log

16	L2512092-01,3,250,250	TO15_SFS.M	R262505.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
1	L2512092-02,3,250,250	TO15_SFS.M	R262506.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2512092-03,3,250,250	TO15_SFS.M	R262507.D	WG2046188,ICAL22092	IPA OVERCAL DCDFM HIT	NY+NAPH-7SIM	Y
3	L2512092-04,3,250,250	TO15_SFS.M	R262508.D	WG2046188,ICAL22092	DCDFM AND 4ETHTOL HIT	NY+NAPH-7SIM	Y
4	L2512092-05,3,250,250	TO15_SFS.M	R262509.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01D,3,15,250	TO15_SFS.M	R262510.D	WG2046188,ICAL22092		ETOH	Y
10	L2514977-02D,3,15,250	TO15_SFS.M	R262511.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03D,3,15,250	TO15_SFS.M	R262512.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03DUPD,3,15,250	TO15_SFS.M	R262513.D	WG2046188,ICAL22092	LL DUP	ETOH	Y
12	L2514977-04D,3,15,250	TO15_SFS.M	R262514.D	WG2046188,ICAL22092		ETOH	Y
2	L2512092-03D,3,50,250	TO15_SFS.M	R262515.D	WG2046188,ICAL22092		IPA	Y

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 (ml) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Sequence Report

3/28/2025 11:55:08 AM

ID	Name	Inlet	Pos.	Int Std	Cal Std	Sample	Method	Injected	Status	Error	Notes
	TAXXXXXX	One	T1	100	100	250	Alpha TO15.720oA.CTD	3/27/2025 11:07:06 AM	Completed		
	CAXXXXXX	One	T2	100	100	250	Alpha TO15.720oA.CTD	3/27/2025 11:44:52 AM	Completed		
	CTO15-LLSTD10.0	One	T3	100	100	250	Alpha TO15.720oA.CTD	3/27/2025 12:22:22 PM	Completed		
	CTO15-SIMSTD5.0	One	T3	100	100	125	Alpha TO15.720oA.CTD	3/27/2025 12:57:48 PM	Completed		
	BAXXXXXX	One	T1	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 3:04:13 PM	Completed		
	BAXXXXXX	One	T1	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 3:39:20 PM	Completed		
	L2512092-06	One	T1	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 6:57:52 PM	Completed		
	L2513426-07	One	T2	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 7:31:27 PM	Completed		
	L2514968-01	One	T3	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 8:05:09 PM	Completed		
	L2514968-02	One	T4	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 8:37:52 PM	Completed		
	L2514968-03	One	T5	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 9:10:13 PM	Completed		
	L2514968-04	One	T6	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 9:43:02 PM	Completed		
	L2514968-05	One	T7	100	0	250	Alpha TO15.720oA.CTD	3/27/2025 10:16:32 PM	Completed		

Sequence Report

3/28/2025 11:55:08 AM

	L2514968-06	One	T8	100	0	250	Alpha TO15.720 0A.CTD	3/27/2025 10:48:38 PM	Completed		
	L2514977-01	One	T9	100	0	250	Alpha TO15.720 0A.CTD	3/27/2025 11:21:12 PM	Completed		
	L2514977-02	One	T10	100	0	250	Alpha TO15.720 0A.CTD	3/27/2025 11:53:41 PM	Completed		
	L2514977-03	One	T11	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 12:26:41 AM	Completed		
	L2514977-03DUP	One	T11	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 12:59:20 AM	Completed		
	L2514977-04	One	T12	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 1:31:42 AM	Completed		
	L2513426-04	One	T13	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 2:04:31 AM	Completed		
	L2513426-05	One	T14	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 2:37:24 AM	Completed		
	L2513426-06	One	T15	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 3:09:50 AM	Completed		
	L2512092-01	One	T16	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 3:42:15 AM	Completed		
	L2512092-02	One	T1	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 4:14:23 AM	Completed		
	L2512092-03	One	T2	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 4:46:19 AM	Completed		
	L2512092-04	One	T3	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 5:20:03 AM	Completed		
	L2512092-05	One	T4	100	0	250	Alpha TO15.720 0A.CTD	3/28/2025 5:52:19 AM	Completed		

Sequence Report

3/28/2025 11:55:08 AM

	L2514977-01	One	T9	100	0	15	Alpha TO15.720 0A.CTD	3/28/2025 7:37:46 AM	Completed		
	L2514977-02	One	T10	100	0	15	Alpha TO15.720 0A.CTD	3/28/2025 8:09:05 AM	Completed		
	L2514977-03	One	T11	100	0	15	Alpha TO15.720 0A.CTD	3/28/2025 8:39:37 AM	Completed		
	L2514977-03DUP	One	T11	100	0	15	Alpha TO15.720 0A.CTD	3/28/2025 9:09:53 AM	Completed		
	L2514977-04	One	T12	100	0	15	Alpha TO15.720 0A.CTD	3/28/2025 9:39:45 AM	Completed		
	L2512092-03	One	T2	100	0	50	Alpha TO15.720 0A.CTD	3/28/2025 10:10:07 AM	Completed		

PACE ANALYTICAL SERVICES

Pace WORK GROUP REPORT (wk02)

Mar 27 2025, 05:50 pm

Work Group: WG2046188 for Department: 3 GC/MS

Created: 27-MAR-25 Due: Operator: BJB

Sample	Account #	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	CollectDate	Location
L2512092-01	PWGROSSER	IA001	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 11:53	Can-6
L2512092-02	PWGROSSER	IA002	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 11:57	Can-6
L2512092-03	PWGROSSER	IA003	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 12:06	Can-6
L2512092-04	PWGROSSER	IA004	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 12:20	Can-6
L2512092-05	PWGROSSER	IA005	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 12:16	Can-6
L2512092-06	PWGROSSER	OA001	S	TO15-LL	AIR	DACQ	U	0403	0318	S0	0304 12:03	Can-6
L2513426-04	CTMALE	VI-IA-1	S	TO15-LL	AIR	DACQ	U	0405	0321	S0	0306 16:40	Can-6
L2513426-05	CTMALE	VI-IA-2	S	TO15-LL	AIR	DACQ	U	0405	0321	S0	0306 17:00	Can-6
L2513426-06	CTMALE	VI-IA-3	S	TO15-LL	AIR	DACQ	U	0405	0321	S0	0306 16:45	Can-6
L2513426-07	CTMALE	VI-OA-1	S	TO15-LL	AIR	DACQ	U	0405	0321	S0	0306 16:53	Can-6
L2514968-01	HALEY-NYC	AA-01_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 12:30	Can-6
L2514968-02	HALEY-NYC	IA-01_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 08:00	Can-6
L2514968-03	HALEY-NYC	IA-02_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 11:55	Can-6
L2514968-04	HALEY-NYC	IA-03_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 12:02	Can-6
L2514968-05	HALEY-NYC	IA-04_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 12:10	Can-6
L2514968-06	HALEY-NYC	IA-05_20250314	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 11:22	Can-6
L2514977-01	LANGAN-NYC	IA01_031425	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 14:52	Can-2.7
L2514977-02	LANGAN-NYC	IA02_031425	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 14:45	Can-2.7
L2514977-03	LANGAN-NYC	IA03_031425	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 14:26	Can-2.7
L2514977-04	LANGAN-NYC	IA04_031425	S	TO15-LL	AIR	DACQ	U	0413	0321	S0	0314 14:37	Can-2.7
WG2046188-1	BFB	MS BFB Tune Standard	S	TO15-LL	AIR	DACQ	U					
WG2046188-2	CCAL	Continuing Calibrati	S	TO15-LL	AIR	DACQ	U					
WG2046188-3	LCS	Laboratory Control S	S	TO15-LL	AIR	DACQ	U					
WG2046188-4	BLANK	Laboratory Method Bl	S	TO15-LL	AIR	DACQ	U					
WG2046188-5	DUP	Duplicate Sample	S	TO15-LL	AIR	DACQ	U					

Comments:

L2512092-01	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-02	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-03	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2513426-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-07	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-01	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-02	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-03	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-01	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-02	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-03	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-04	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
WG2046188-5	L2514977-03

PACE ANALYTICAL SERVICES

Pace WORK GROUP REPORT (wk02)

Mar 27 2025, 05:51 pm

Work Group: WG2046190 for Department: 3 GC/MS

Created: 27-MAR-25 Due: Operator: BJB

Sample	Account #	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	CollectDate	Location
L2512092-01	PWGROSSER	IA001	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 11:53	Can-6
L2512092-02	PWGROSSER	IA002	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 11:57	Can-6
L2512092-03	PWGROSSER	IA003	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 12:06	Can-6
L2512092-04	PWGROSSER	IA004	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 12:20	Can-6
L2512092-05	PWGROSSER	IA005	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 12:16	Can-6
L2512092-06	PWGROSSER	OA001	S	TO15-SIM	AIR	DACQ	U	0403	0318	S0	0304 12:03	Can-6
L2513426-04	CTMALE	VI-IA-1	S	TO15-SIM	AIR	DACQ	U	0405	0321	S0	0306 16:40	Can-6
L2513426-05	CTMALE	VI-IA-2	S	TO15-SIM	AIR	DACQ	U	0405	0321	S0	0306 17:00	Can-6
L2513426-06	CTMALE	VI-IA-3	S	TO15-SIM	AIR	DACQ	U	0405	0321	S0	0306 16:45	Can-6
L2513426-07	CTMALE	VI-OA-1	S	TO15-SIM	AIR	DACQ	U	0405	0321	S0	0306 16:53	Can-6
L2514968-01	HALEY-NYC	AA-01_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 12:30	Can-6
L2514968-02	HALEY-NYC	IA-01_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 08:00	Can-6
L2514968-03	HALEY-NYC	IA-02_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 11:55	Can-6
L2514968-04	HALEY-NYC	IA-03_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 12:02	Can-6
L2514968-05	HALEY-NYC	IA-04_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 12:10	Can-6
L2514968-06	HALEY-NYC	IA-05_20250314	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 11:22	Can-6
L2514977-01	LANGAN-NYC	IA01_031425	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 14:52	Can-2.7
L2514977-02	LANGAN-NYC	IA02_031425	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 14:45	Can-2.7
L2514977-03	LANGAN-NYC	IA03_031425	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 14:26	Can-2.7
L2514977-04	LANGAN-NYC	IA04_031425	S	TO15-SIM	AIR	DACQ	U	0413	0321	S0	0314 14:37	Can-2.7
WG2046190-1	BFB	MS BFB Tune Standard	S	TO15-SIM	AIR	DACQ	U					
WG2046190-2	CCAL	Continuing Calibrati	S	TO15-SIM	AIR	DACQ	U					
WG2046190-3	LCS	Laboratory Control S	S	TO15-SIM	AIR	DACQ	U					
WG2046190-4	BLANK	Laboratory Method Bl	S	TO15-SIM	AIR	DACQ	U					
WG2046190-5	DUP	Duplicate Sample	S	TO15-SIM	AIR	DACQ	U					

Comments:

L2512092-01	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-02	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-03	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2512092-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/18/25 PM: CAND
L2513426-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2513426-07	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-01	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-02	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-03	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-04	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-05	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514968-06	TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-01	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-02	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-03	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
L2514977-04	If the soil vapor screen indicates a dilution >4X is needed we will have to add TO15 SIM for the 7 NYS DMCs. Contact the PM to add the product and pricing. TO15-LL+total xylenes TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 03/21/25 PM: CAND
WG2046190-5	L2514977-03

Alpha Analytical, Inc.

Canister Dilution Worksheet

	NJDEP Required Information							Pressurization Dilution				Can Dilution				Instrument Dilution				
Sample ID	Can size, L	P_1, In Hg	P_1, atm	V_1, L	P_2, In Hg	P_2, atm	V_2, L	P_1, psia	P_2, psia	Dilution factor	Gas Used*	Volume injected, mL	Final Pressure, psia	Volume of Dilution Gas in Can, L	Can dilution factor	Volume of Bag or Can Analyzed, mL	Instrument Dilution Factor	Final Dilution Factor **	Final Volume Injected, mL ***	Analyst Initials
L2514968-05D	6.0	-19.94	0.33	2.00	-9.53	0.68	4.09	4.9	10.0	2.04	N2	1000	14.7	1.00	1.00	250	1.00	2.04	122.50	BJB

Barcode: I2514968-05a

SAMPLE ID SCANS

*N2 = Nitrogen and H2= Hydrogen

** Dilution factor on this spreadsheet may differ from reported dilution factor (calculated by LIMs) due to different rounding rules

*** Reported to 2 decimal places unless 0.01 or less; then 3 decimal places are reported

Analyst data input fields

Analyst Comments:

in Hg = ((psia/14.67)*29.94)-29.94 atm =psia/14.67 psig=psia - 14.67 psia = dilution instrument reading

Form# 117-05
3/27/2025 5:49 PM

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2046190-3	**Analysis Date** : 03/27/25 12:57	**File ID** : R262486
LCSD Sample ID	:	**Analysis Date** :	**File ID** :

	Laboratory Control Sample			Laboratory Control Duplicate					
Parameter	**True (ppbV)**	**Found (ppbV)**	**%R**	**True (ppbV)**	**Found (ppbV)**	**%R**	**RPD**	**Recovery Limits**	**RPD Limit**
Vinyl chloride	5	5.41	108				-	70-130	25
1,1-Dichloroethene	5	5.40	108				-	70-130	25
cis-1,2-Dichloroethene	5	5.14	103				-	70-130	25
1,1,1-Trichloroethane	5	5.21	104				-	70-130	25
Carbon tetrachloride	5	5.32	106				-	70-130	25
Trichloroethene	5	5.28	106				-	70-130	25
Tetrachloroethene	5	5.70	114				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab Sample ID	: WG2046190-4	**Lab File ID**	: R262488
Instrument ID	: AIRLAB26		
Matrix	: AIR	**Analysis Date**	: 03/27/25 15:39

Client Sample No.	Lab Sample ID	Analysis Date
WG2046190-3LCS	WG2046190-3	03/27/25 12:57
AA-01_20250314	L2514968-01	03/27/25 20:04
IA-01_20250314	L2514968-02	03/27/25 20:37
IA-02_20250314	L2514968-03	03/27/25 21:10
IA-03_20250314	L2514968-04	03/27/25 21:42
IA-04_20250314	L2514968-05D	03/27/25 22:16
IA-05_20250314	L2514968-06	03/27/25 22:48
IA03_031425DUP	WG2046190-5	03/28/25 00:59

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/14/25 19:59
Tune Standard	: WG2042597-1	**Tune File ID**	: R262179_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18
75	30.0 - 66.0% of mass 95	49.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	85.4
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101% of mass 174	83.5 (97.8)1
177	5.0 - 9.0% of mass 176	5.4 (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
STD0.02	R1942635-1	R262180	03/14/25 20:29
STD0.05	R1942635-2	R262181	03/14/25 21:00
STD0.1	R1942635-3	R262182	03/14/25 21:33
STD0.2	R1942635-4	R262183	03/14/25 22:06
STD0.5	R1942635-5	R262184	03/14/25 22:40
STD1.0	R1942635-6	R262185	03/14/25 23:16
STD5.0	R1942635-7	R262186	03/14/25 23:50
STD010	R1942635-8	R262187	03/15/25 00:26
STD020	R1942635-9	R262188	03/15/25 00:58
STD050	R1942635-10	R262189	03/15/25 01:31

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/17/25 09:58
Tune Standard	: WG2042597-2	**Tune File ID**	: R262195_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18.2
75	30.0 - 66.0% of mass 95	50
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.8
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	85.8
175	4.0 - 9.0% of mass 174	6.2 (7.2)1
176	93.0 - 101% of mass 174	83 (96.6)1
177	5.0 - 9.0% of mass 176	5.2 (6.3)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
ICV Quant	R1942635-11	R262197	03/17/25 11:12

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

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/27/25 11:06
Tune Standard	: WG2046190-1	**Tune File ID**	: R262483_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	18.1
75	30.0 - 66.0% of mass 95	47.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7.1
173	Less than 2.0% of mass 174	0.9 (1)1
174	50.0 - 120.0% of mass 95	86.3
175	4.0 - 9.0% of mass 174	6.4 (7.5)1
176	93.0 - 101% of mass 174	83.6 (96.8)1
177	5.0 - 9.0% of mass 176	5.5 (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
WG2046190-2CCAL	WG2046190-2	R262486	03/27/25 12:57
WG2046190-3LCS	WG2046190-3	R262486	03/27/25 12:57
WG2046190-4BLANK	WG2046190-4	R262488	03/27/25 15:39
AA-01_20250314	L2514968-01	R262491	03/27/25 20:04
IA-01_20250314	L2514968-02	R262492	03/27/25 20:37
IA-02_20250314	L2514968-03	R262493	03/27/25 21:10
IA-03_20250314	L2514968-04	R262494	03/27/25 21:42
IA-04_20250314	L2514968-05D	R262495	03/27/25 22:16
IA-05_20250314	L2514968-06	R262496	03/27/25 22:48
WG2046190-5DUP	WG2046190-5	R262500	03/28/25 00:59

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Analysis Date**	: 03/27/25 12:57:00
Sample No	: WG2046190-2	**Lab File ID**	: R262486

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG2046190-2	206550	3.50	727429	4.37	103758	6.45
Upper Limit	289170	3.83	1018401	4.70	145261	6.78
Lower Limit	123930	3.17	436457	4.04	62255	6.12
Sample ID						
WG2046190-3 LCS	206550	3.50	727429	4.37	103758	6.45
WG2046190-4 BLANK	195597	3.50	657391	4.37	94404	6.45
AA-01_20250314	194806	3.50	642894	4.37	94625	6.45
IA-01_20250314	193962	3.50	659892	4.37	98856	6.45
IA-02_20250314	200103	3.50	676957	4.37	100606	6.45
IA-03_20250314	201965	3.51	701861	4.37	104681	6.45
IA-04_20250314	201278	3.50	684716	4.37	103058	6.45
IA-05_20250314	202807	3.51	692948	4.37	105170	6.45
IA03_031425 DUP	209327	3.50	730712	4.37	104495	6.45

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 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)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

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	GCDAI06	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)***
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

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		
sec-Butylbenzene	135-98-8	0.2	0.0266	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.0299	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.0087	ppbV				25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0366	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.539	ppbV	40-160	25		25	25			
2-Butanone	78-93-3	0.5	0.132	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.191	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.0223	ppbV	70-130	25		25	25			
Acrolein	107-02-8	0.05	0.0387	ppbV	60-113	25		25	25			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
Bromofluorobenzene	*460-00-4*									*70-130*		

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. (Soil/Solids only)
Please Note that the information provided in this table is subject to change at anytime at the discretion of the laboratory.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-01	**Date Collected**	: 03/14/25 12:30
Client ID	: AA-01_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 20:04
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262491	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.076	0.020	--	0.478	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.036	0.020	--	0.244	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-02	**Date Collected**	: 03/14/25 08:00
Client ID	: IA-01_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 20:37
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262492	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.077	0.020	--	0.484	0.126	--	
79-01-6	Trichloroethene	0.131	0.020	--	0.704	0.107	--	
127-18-4	Tetrachloroethene	0.258	0.020	--	1.75	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-03	**Date Collected**	: 03/14/25 11:55
Client ID	: IA-02_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 21:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262493	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.078	0.020	--	0.491	0.126	--	
79-01-6	Trichloroethene	0.039	0.020	--	0.210	0.107	--	
127-18-4	Tetrachloroethene	0.176	0.020	--	1.19	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-04	**Date Collected**	: 03/14/25 12:02
Client ID	: IA-03_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 21:42
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262494	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	0.021	0.020	--	0.054	0.051	--	
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	0.077	0.020	--	0.305	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.077	0.020	--	0.484	0.126	--	
79-01-6	Trichloroethene	0.261	0.020	--	1.40	0.107	--	
127-18-4	Tetrachloroethene	1.30	0.020	--	8.82	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-05D	**Date Collected**	: 03/14/25 12:10
Client ID	: IA-04_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 22:16
Sample Matrix	: AIR	**Dilution Factor**	: 2.041
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262495	**Instrument ID**	: AIRLAB26
Sample Amount	: 123 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.041	--	ND	0.104	--	U
75-35-4	1,1-Dichloroethene	ND	0.041	--	ND	0.162	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.041	--	ND	0.162	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.041	--	ND	0.223	--	U
56-23-5	Carbon tetrachloride	0.080	0.041	--	0.501	0.257	--	
79-01-6	Trichloroethene	ND	0.041	--	ND	0.219	--	U
127-18-4	Tetrachloroethene	0.055	0.041	--	0.374	0.277	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Lab ID	: L2514968-06	**Date Collected**	: 03/14/25 11:22
Client ID	: IA-05_20250314	**Date Received**	: 03/14/25
Sample Location	: 340 MYRTLE AVE, BROOKLYN, NY	**Date Analyzed**	: 03/27/25 22:48
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TPH
Lab File ID	: R262496	**Instrument ID**	: AIRLAB26
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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	0.084	0.020	--	0.528	0.126	--	
79-01-6	Trichloroethene	0.022	0.020	--	0.118	0.107	--	
127-18-4	Tetrachloroethene	0.124	0.020	--	0.841	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Haley & Aldrich	Lab Number	: L2514968
Project Name	: 340 MYRTLE AVE	Project Number	: 0210873-000-001-13
Lab ID	: WG2046190-4	Date Collected	: NA
Client ID	: WG2046190-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 03/27/25 15:39
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15-SIM	Analyst	: TPH
Lab File ID	: R262488	Instrument ID	: AIRLAB26
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262491.D
Acq On : 27 Mar 2025 08:04 pm
Operator : AIRLAB26:TPH
Sample : L2514968-01,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 07:24:58 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

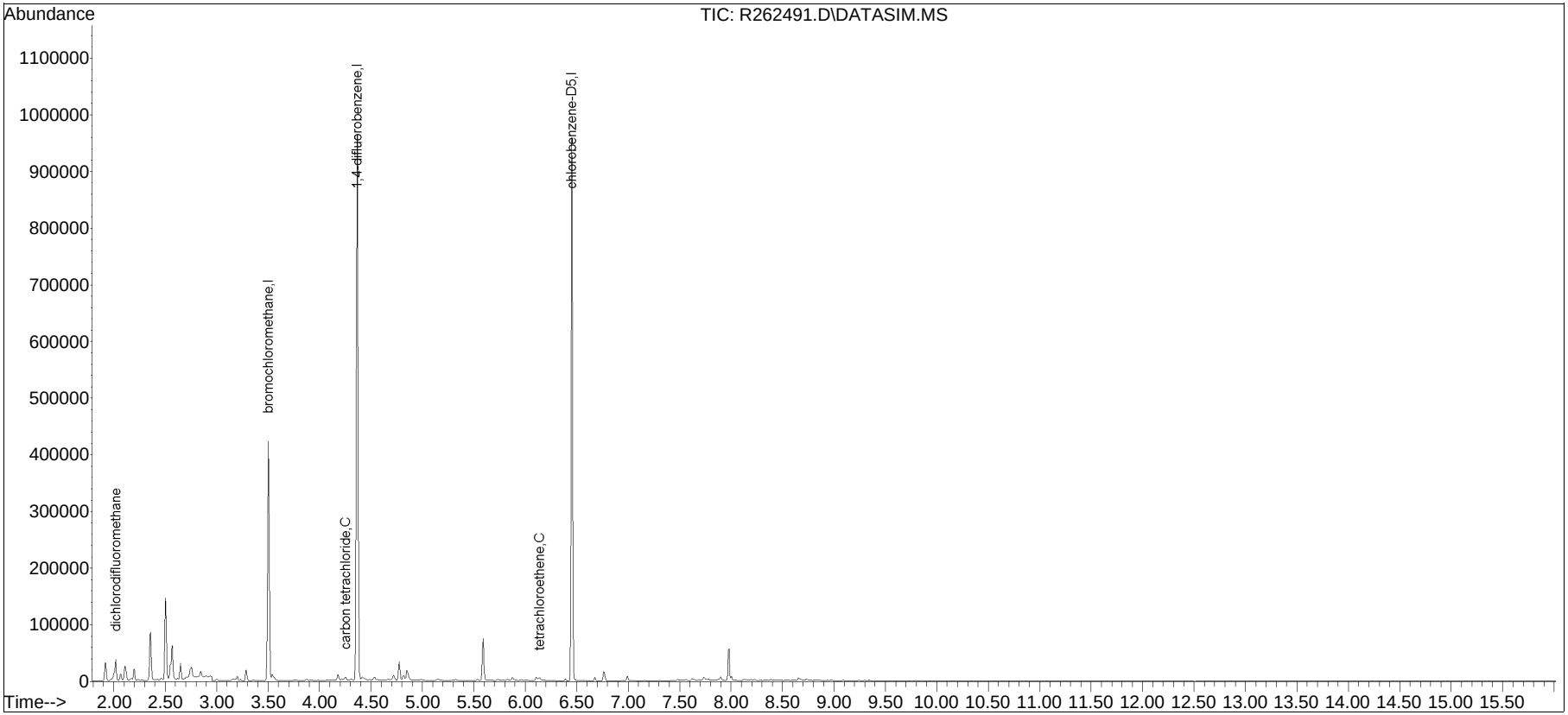
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	194806	10.000	ppbV	0.00
Standard Area = 206550			Recovery =		94.31%	
33) 1,4-difluorobenzene	4.368	114	642894	10.000	ppbV	0.00
Standard Area = 727429			Recovery =		88.38%	
51) chlorobenzene-D5	6.452	54	94625	10.000	ppbV	0.00
Standard Area = 103758			Recovery =		91.20%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.	d	
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.443		0	N.D.		
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2543	0.076	ppbV	96
44) trichloroethene	4.679		0	N.D.		
57) tetrachloroethene	6.142	166	1005m	0.036	ppbV	

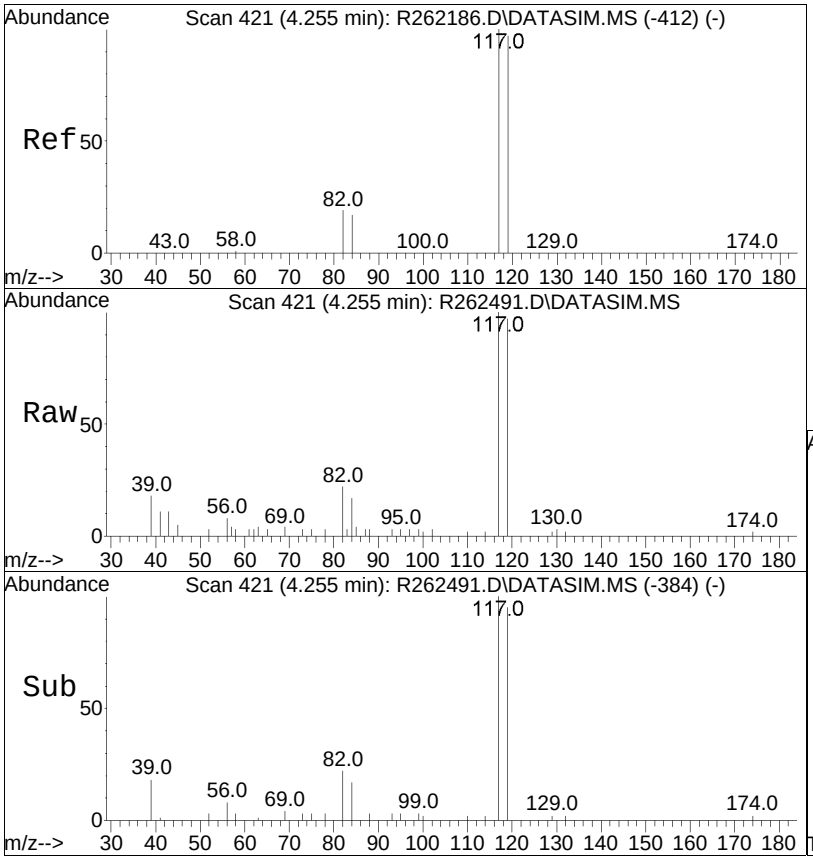
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262491.D
Acq On : 27 Mar 2025 08:04 pm
Operator : AIRLAB26:TPH
Sample : L2514968-01,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Mar 28 07:24:58 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

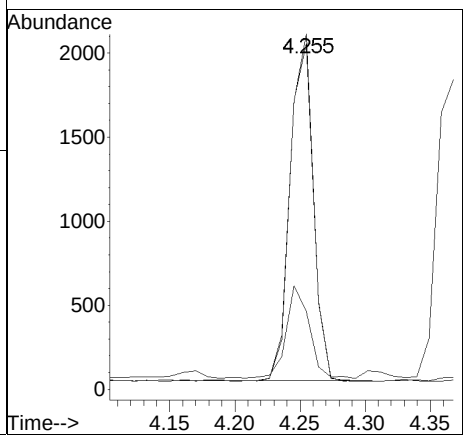


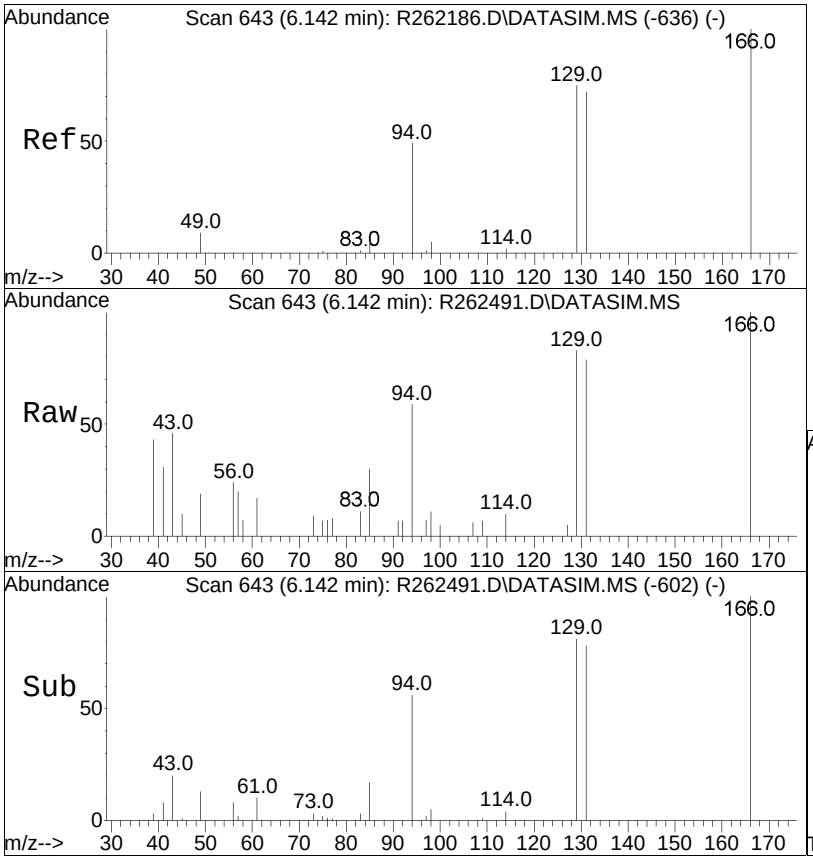


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 4.255 min Scan# 421
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion:117 Resp: 2543

Ion	Ratio	Lower	Upper
117	100		
119	98.3	76.9	115.3
82	26.5	26.0	39.0

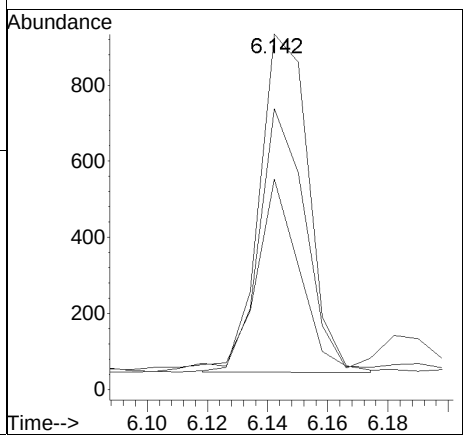




#57
tetrachloroethene
Concen: 0.04 ppbV m
RT: 6.142 min Scan# 643
Delta R.T. -0.000 min
Lab File: R262491.D
Acq: 27 Mar 2025 08:04 pm

Tgt Ion:166 Resp: 1005

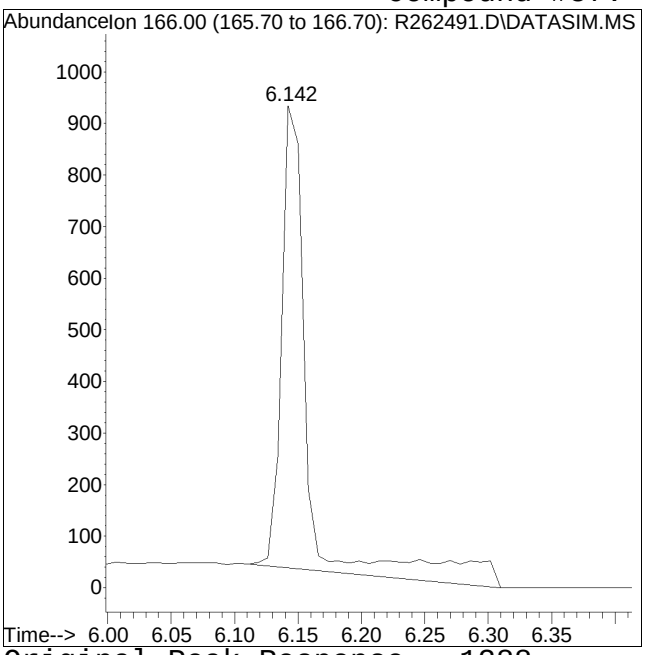
Ion	Ratio	Lower	Upper
166	100		
131	92.7	57.4	86.0#
94	48.6	36.6	55.0



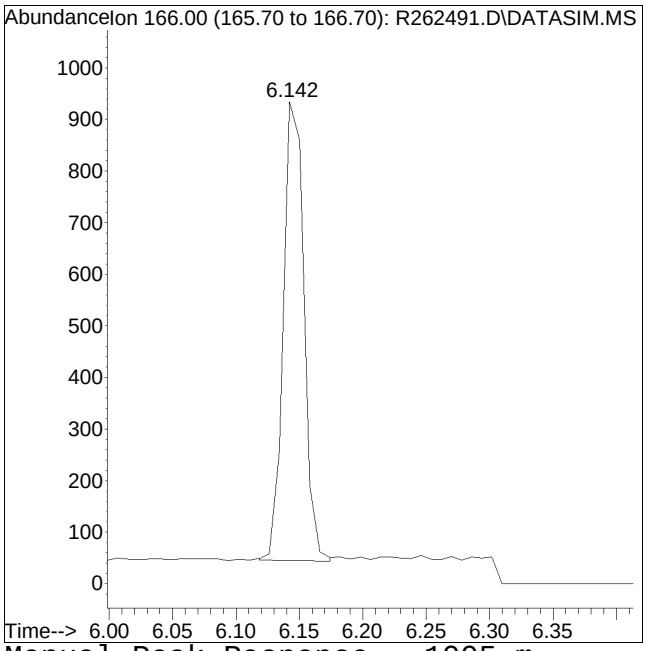
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262491.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 8:04 pm Instrument : Airlab26
Sample : L2514968-01,3,250,250 Quant Date : 3/28/2025 7:24 am

Compound #57: tetrachloroethene



Original Peak Response = 1288



Manual Peak Response = 1005 m

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262492.D
Acq On : 27 Mar 2025 08:37 pm
Operator : AIRLAB26:TPH
Sample : L2514968-02,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 07:25:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

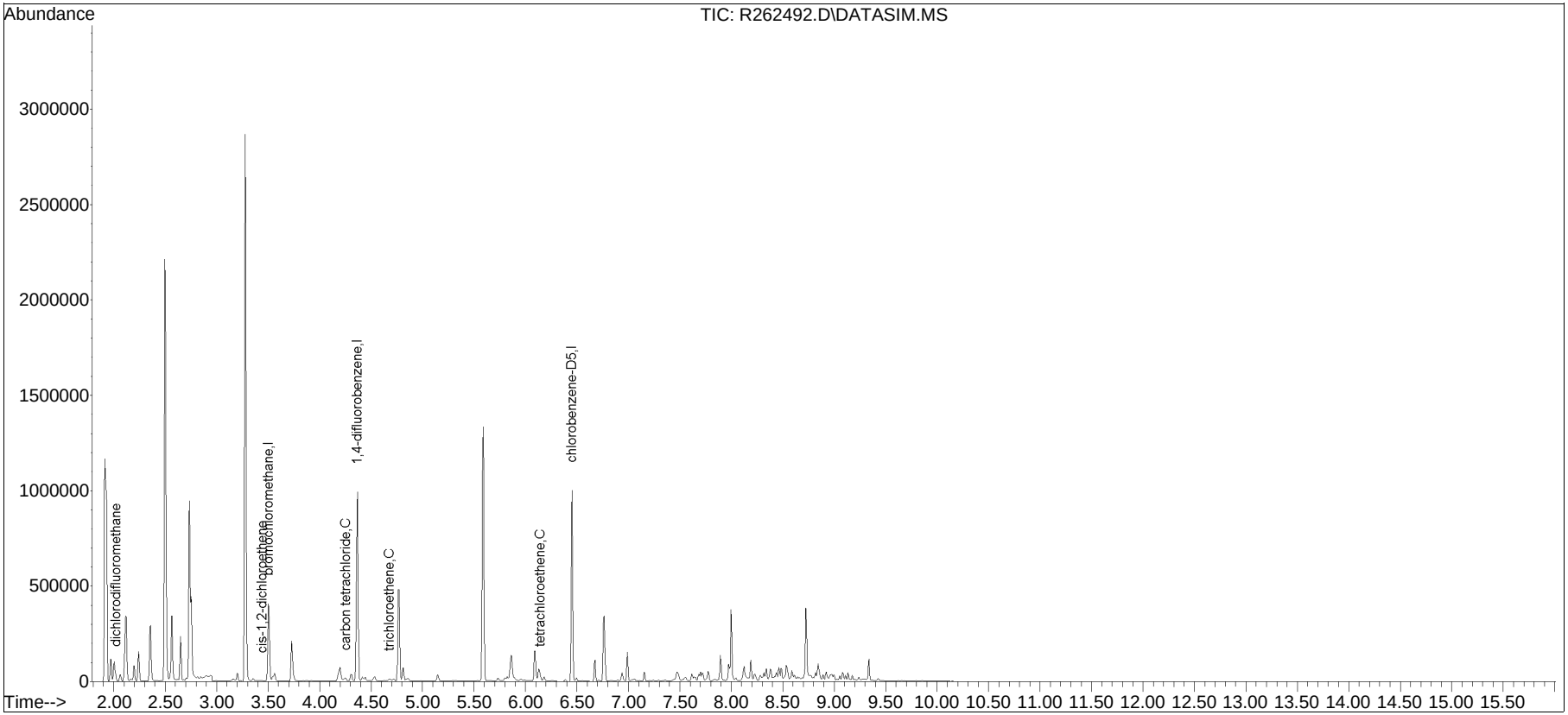
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	193962	10.000	ppbV	0.00
Standard Area = 206550			Recovery =		93.91%	
33) 1,4-difluorobenzene	4.368	114	659892	10.000	ppbV	0.00
Standard Area = 727429			Recovery =		90.72%	
51) chlorobenzene-D5	6.452	54	98856	10.000	ppbV	0.00
Standard Area = 103758			Recovery =		95.28%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.136		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.443	61	289	0.015	ppbV #	89
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2627	0.077	ppbV	97
44) trichloroethene	4.679	130	2970	0.131	ppbV	98
57) tetrachloroethene	6.142	166	7493	0.258	ppbV	97

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

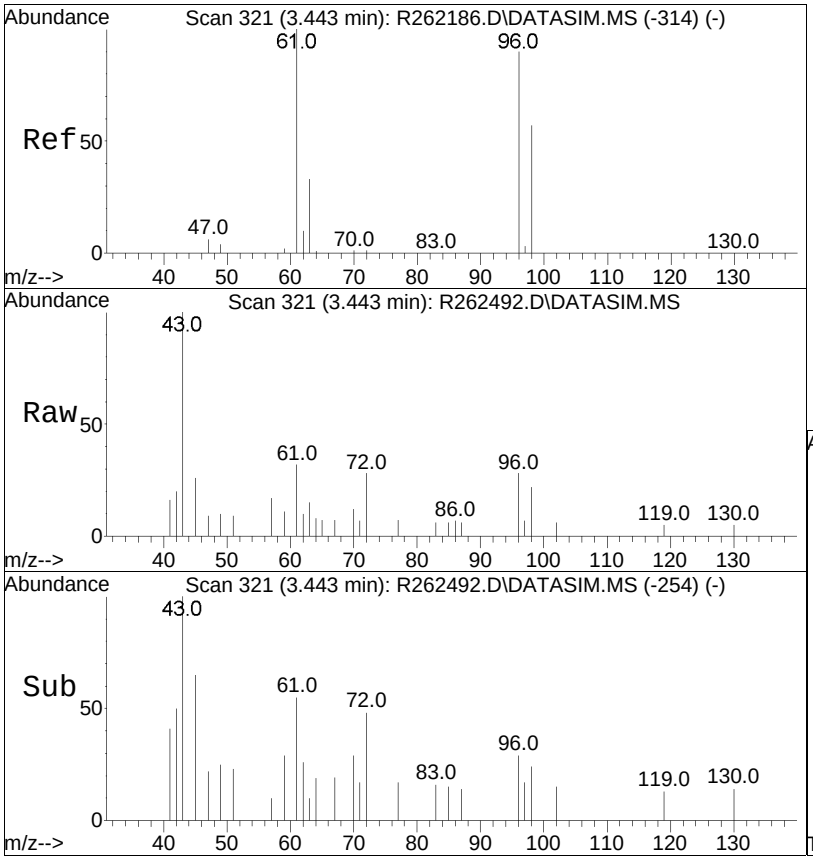
Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262492.D
Acq On : 27 Mar 2025 08:37 pm
Operator : AIRLAB26:TPH
Sample : L2514968-02,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 28 07:25:09 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration



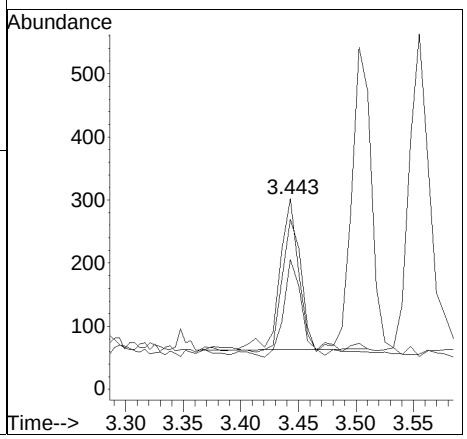
TSIM26_250314.M Fri Mar 28 15:11:03 2025 Page: 2

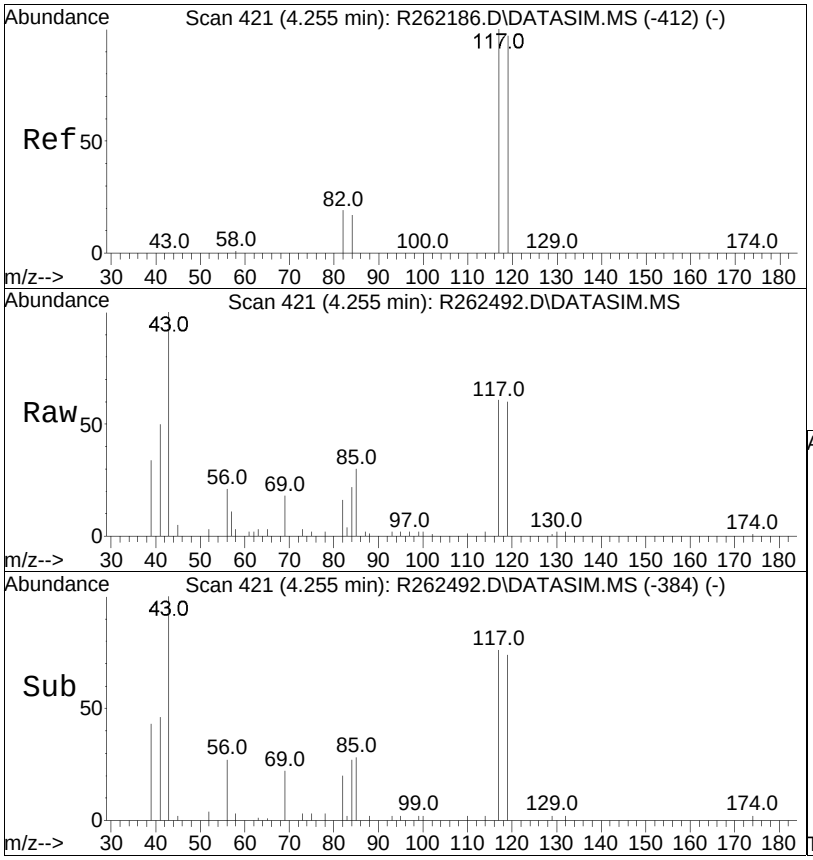


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 3.443 min Scan# 321
Delta R.T. 0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion: 61 Resp: 289

Ion	Ratio	Lower	Upper
61	100		
96	82.0	69.8	104.8
98	69.6	44.5	66.7#

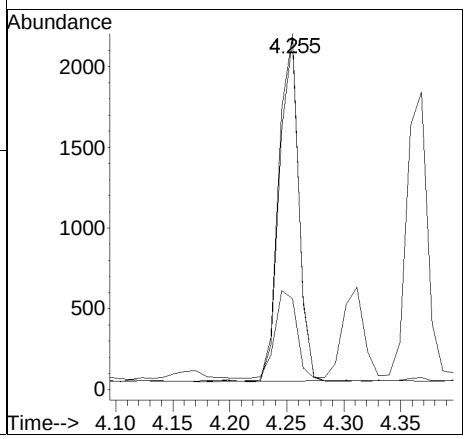


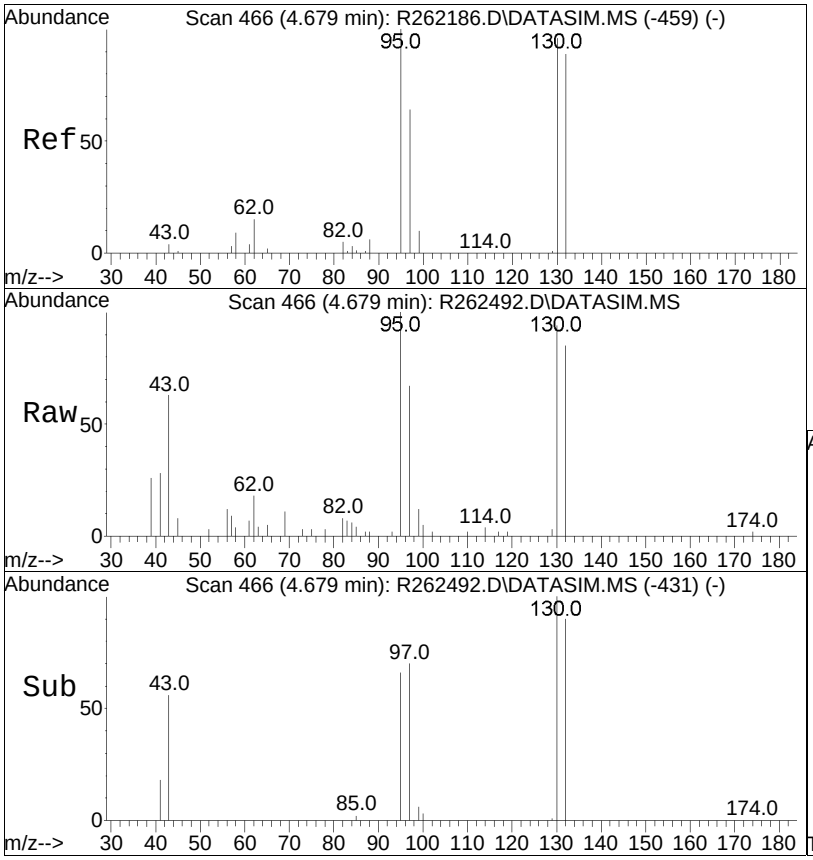


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:117 Resp: 2627

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
82	26.7	26.0	39.0

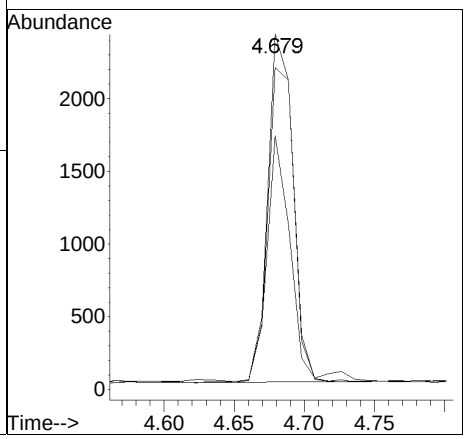


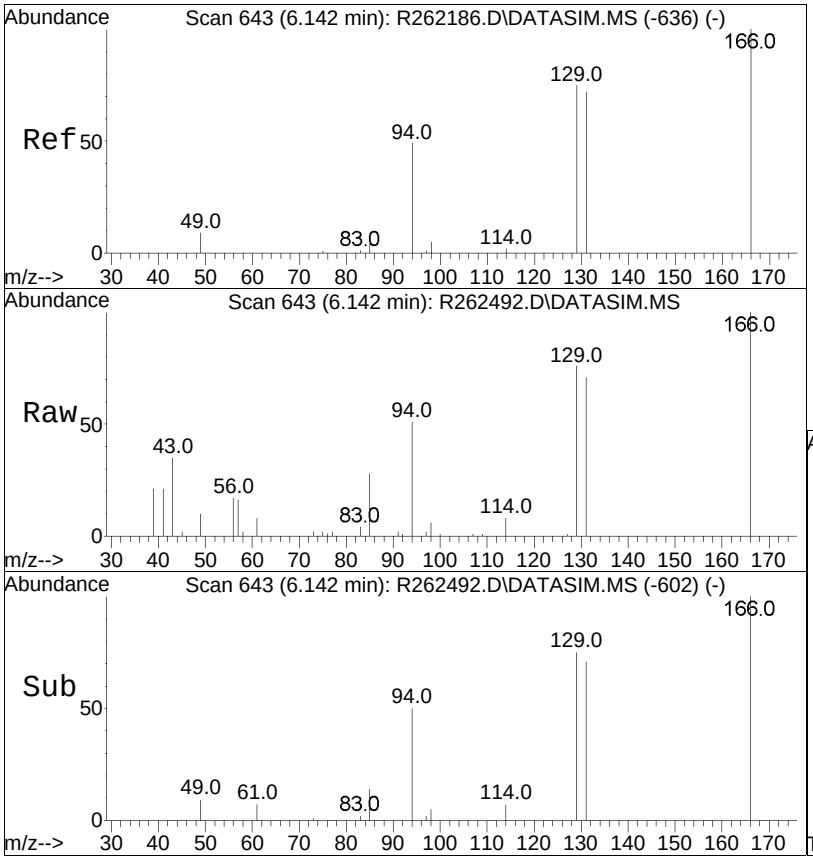


#44
trichloroethene
Concen: 0.13 ppbV
RT: 4.679 min Scan# 466
Delta R.T. 0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:130 Resp: 2970

Ion	Ratio	Lower	Upper
130	100		
132	95.6	76.5	114.7
97	66.4	49.4	74.2

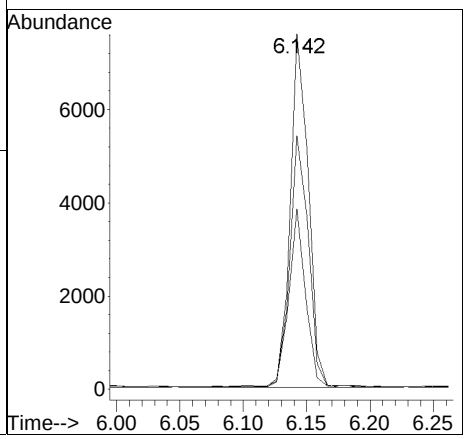




#57
tetrachloroethene
Concen: 0.26 ppbV
RT: 6.142 min Scan# 643
Delta R.T. 0.000 min
Lab File: R262492.D
Acq: 27 Mar 2025 08:37 pm

Tgt Ion:166 Resp: 7493

Ion	Ratio	Lower	Upper
166	100		
131	73.7	57.4	86.0
94	47.9	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262492.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 8:37 pm	Instrument	: Airlab26
Sample	: L2514968-02,3,250,250	Quant Date	: 3/28/2025 7:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262493.D
Acq On : 27 Mar 2025 09:10 pm
Operator : AIRLAB26:TPH
Sample : L2514968-03,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 07:25:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

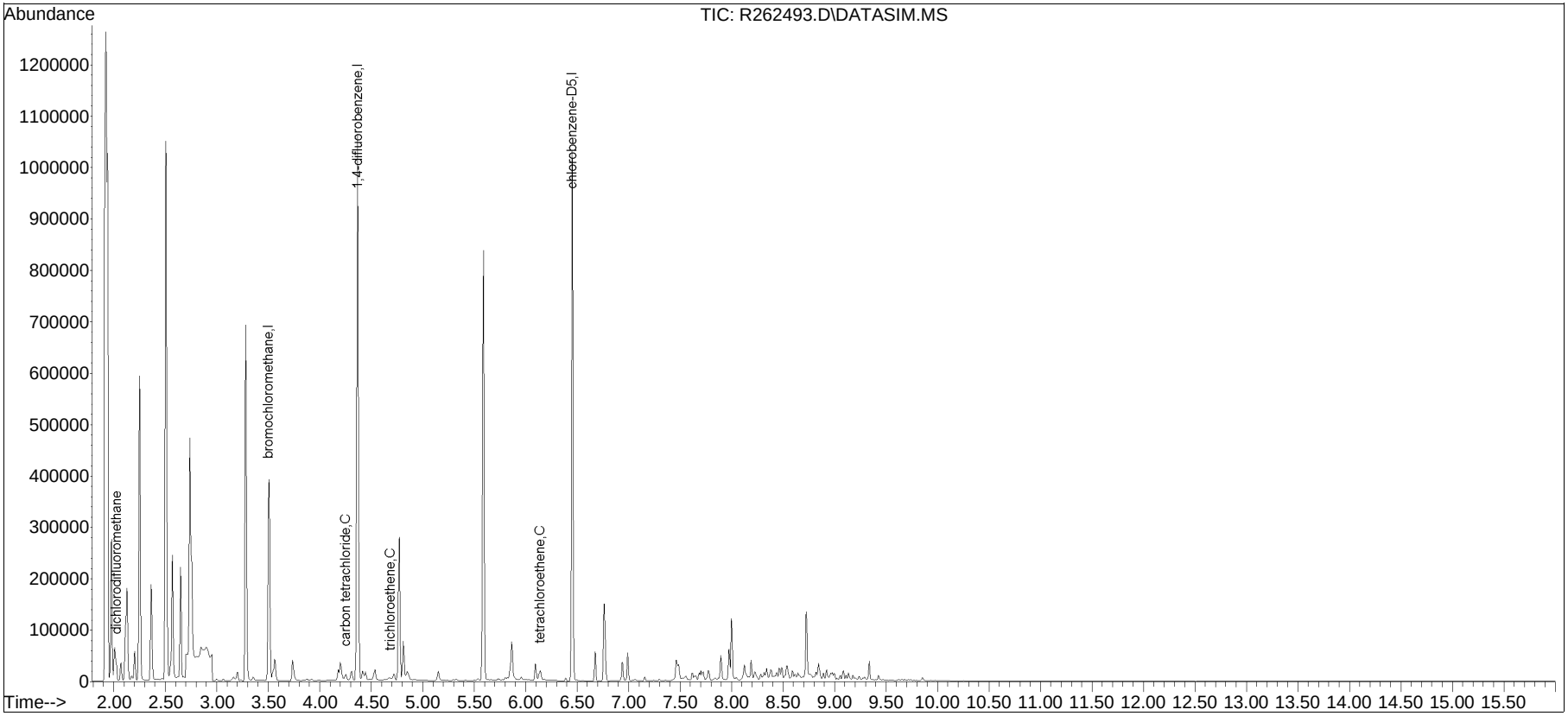
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	200103	10.000	ppbV	0.00
Standard Area = 206550			Recovery =		96.88%	
33) 1,4-difluorobenzene	4.368	114	676957	10.000	ppbV	0.00
Standard Area = 727429			Recovery =		93.06%	
51) chlorobenzene-D5	6.452	54	100606	10.000	ppbV	0.00
Standard Area = 103758			Recovery =		96.96%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.142		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.443		0	N.D.		
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2732	0.078	ppbV #	96
44) trichloroethene	4.689	130	904	0.039	ppbV	92
57) tetrachloroethene	6.142	166	5210	0.176	ppbV	99

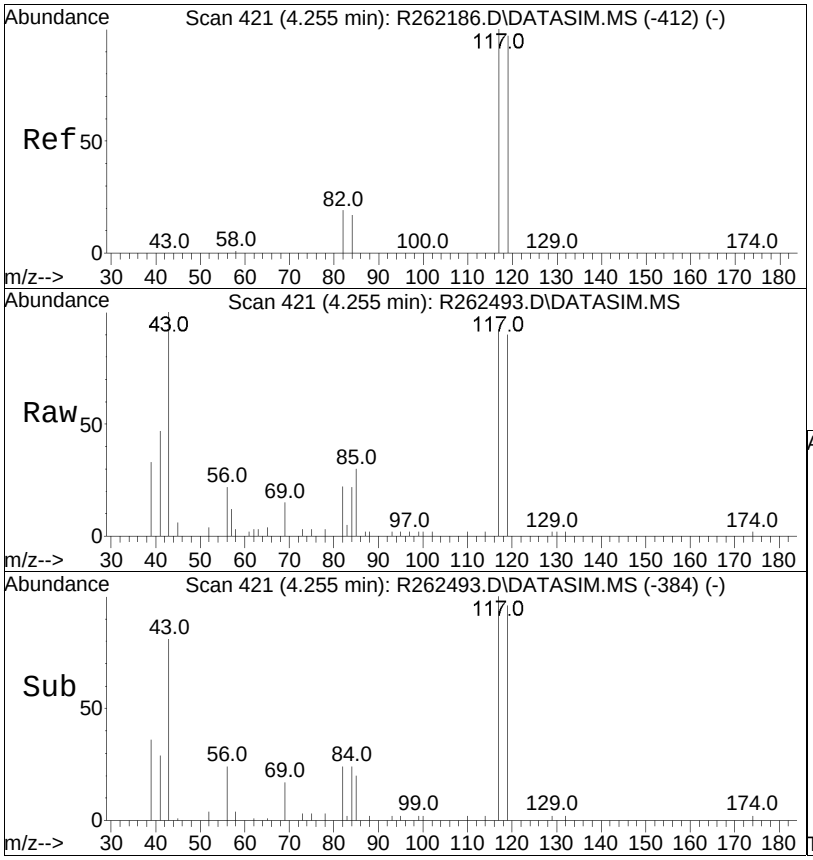
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262493.D
Acq On : 27 Mar 2025 09:10 pm
Operator : AIRLAB26:TPH
Sample : L2514968-03,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 28 07:25:18 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

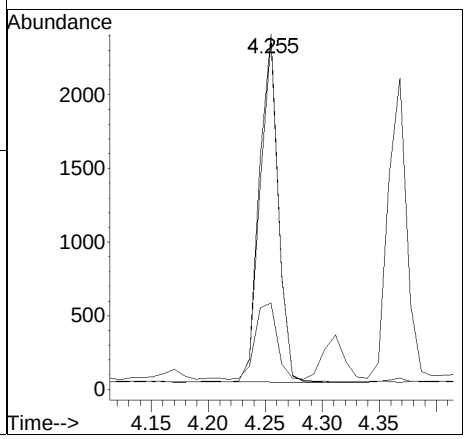


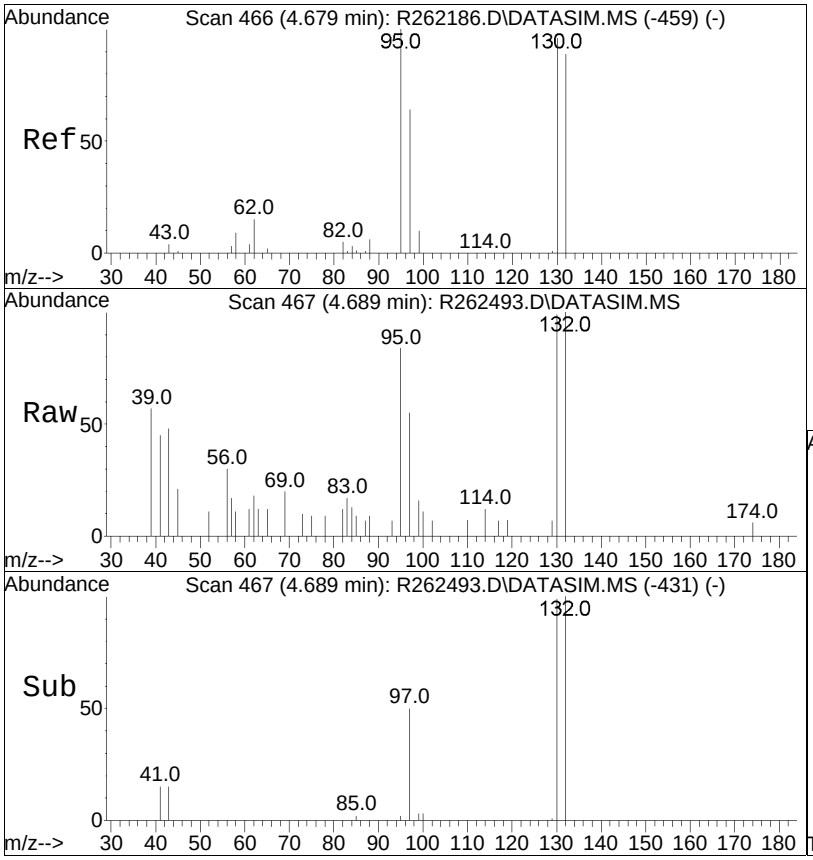


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:117 Resp: 2732

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.9	115.3
82	25.0	26.0	39.0#

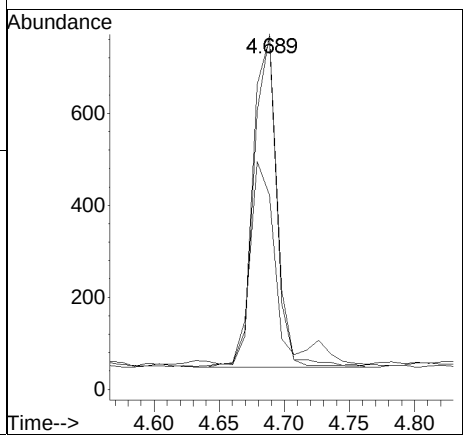


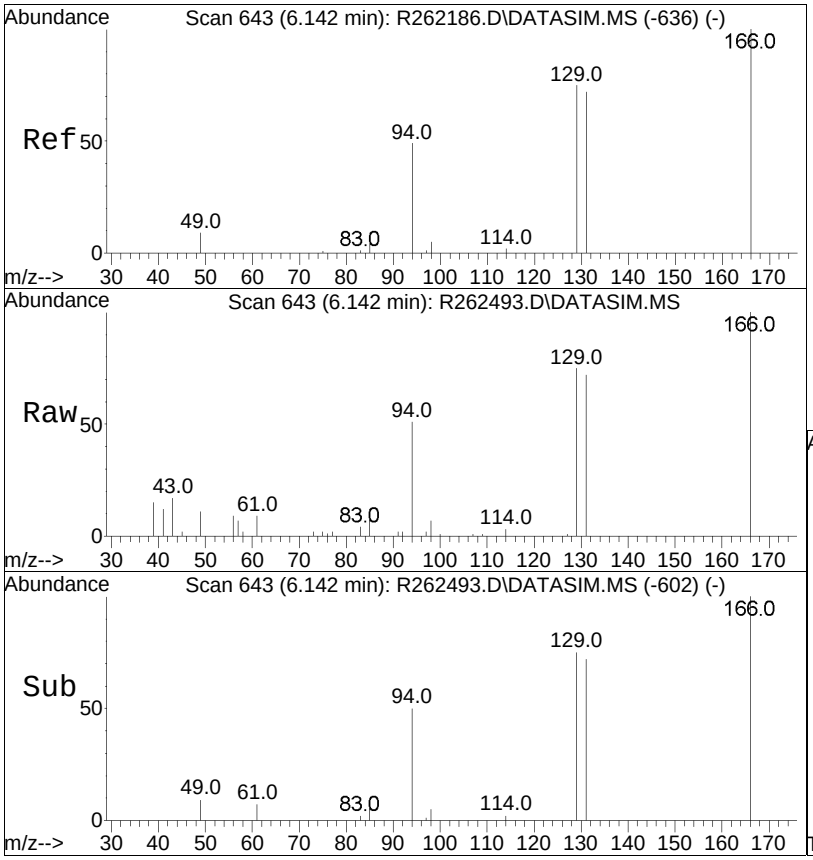


#44
trichloroethene
Concen: 0.04 ppbV
RT: 4.689 min Scan# 467
Delta R.T. 0.009 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:130 Resp: 904

Ion	Ratio	Lower	Upper
130	100		
132	99.9	76.5	114.7
97	72.5	49.4	74.2

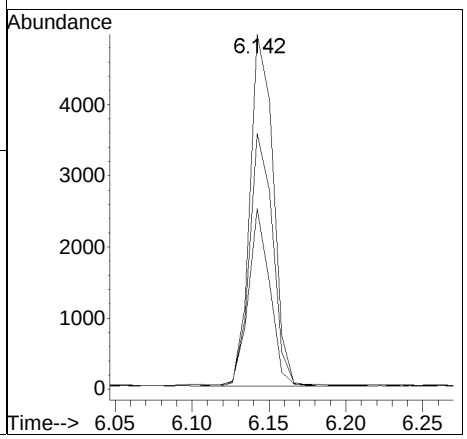




#57
tetrachloroethene
Concen: 0.18 ppbV
RT: 6.142 min Scan# 643
Delta R.T. 0.000 min
Lab File: R262493.D
Acq: 27 Mar 2025 09:10 pm

Tgt Ion:166 Resp: 5210

Ion	Ratio	Lower	Upper
166	100		
131	72.5	57.4	86.0
94	46.9	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262493.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 9:10 pm	Instrument	: Airlab26
Sample	: L2514968-03,3,250,250	Quant Date	: 3/28/2025 7:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262494.D
Acq On : 27 Mar 2025 09:42 pm
Operator : AIRLAB26:TPH
Sample : L2514968-04,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 07:25:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

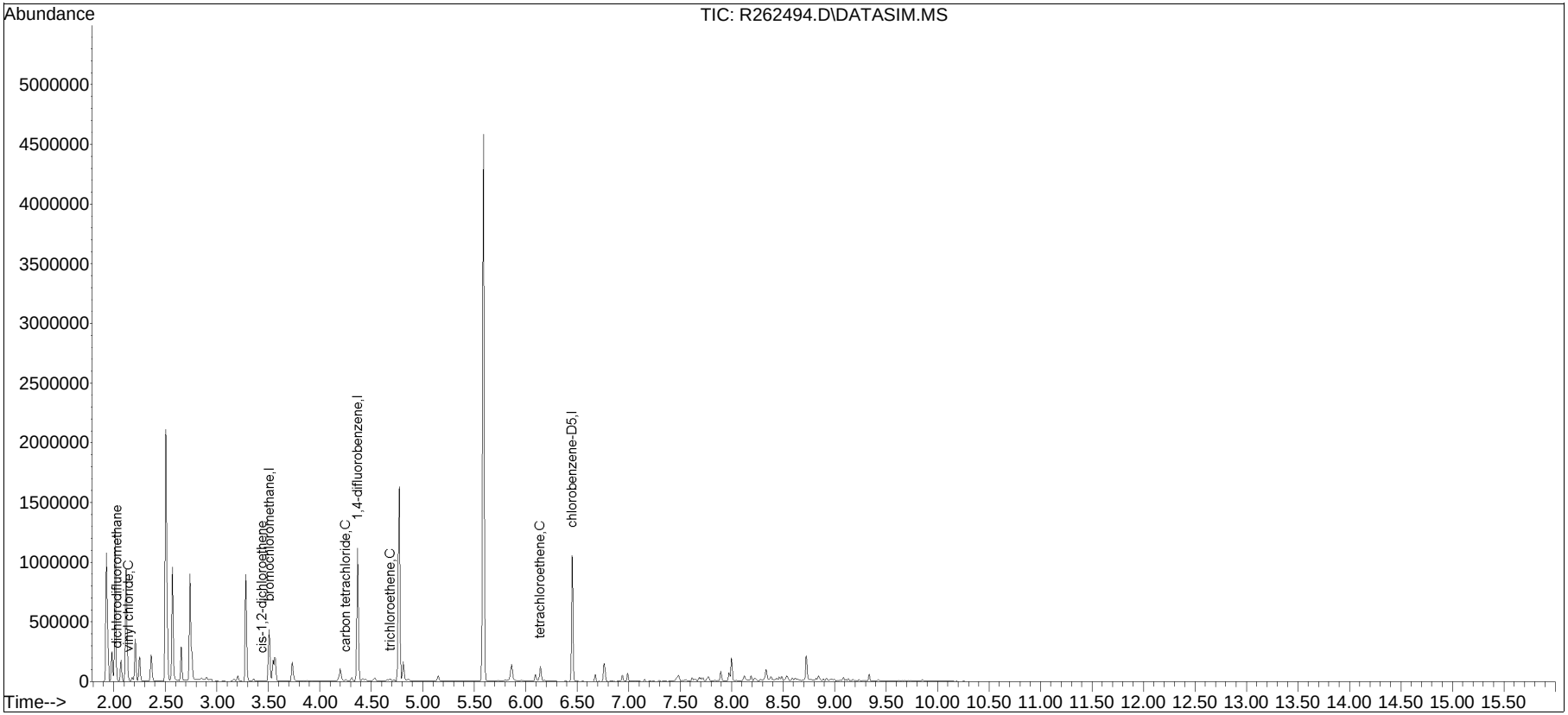
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.510	49	201965	10.000	ppbV	0.00
Standard Area = 206550			Recovery = 97.78%			
33) 1,4-difluorobenzene	4.368	114	701861	10.000	ppbV	0.00
Standard Area = 727429			Recovery = 96.49%			
51) chlorobenzene-D5	6.452	54	104681	10.000	ppbV	0.00
Standard Area = 103758			Recovery = 100.89%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.147	62	362	0.021	ppbV #	68
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.443	61	1562	0.077	ppbV	97
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2818	0.077	ppbV #	94
44) trichloroethene	4.689	130	6285	0.261	ppbV	99
57) tetrachloroethene	6.142	166	39992	1.299	ppbV	98

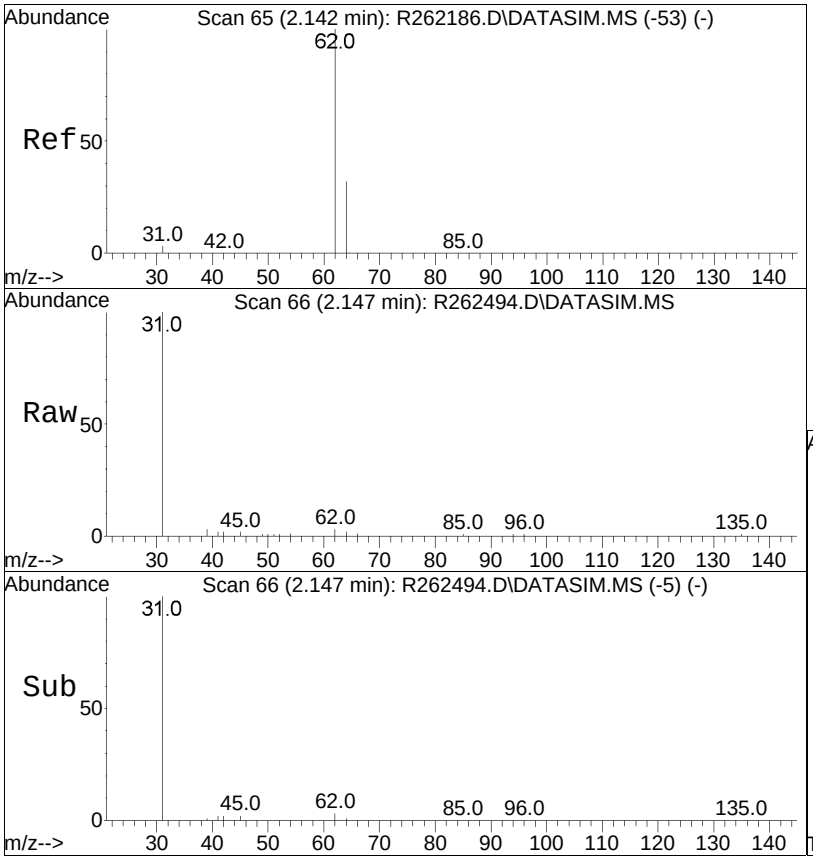
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262494.D
Acq On : 27 Mar 2025 09:42 pm
Operator : AIRLAB26:TPH
Sample : L2514968-04,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 28 07:25:27 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

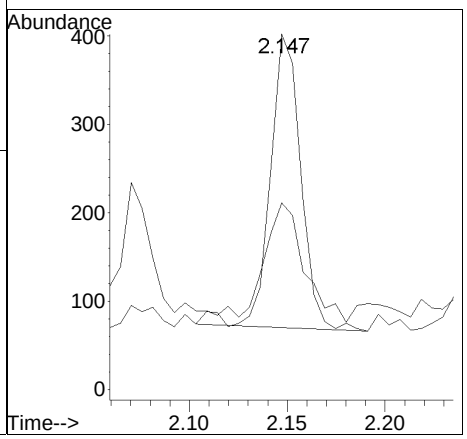


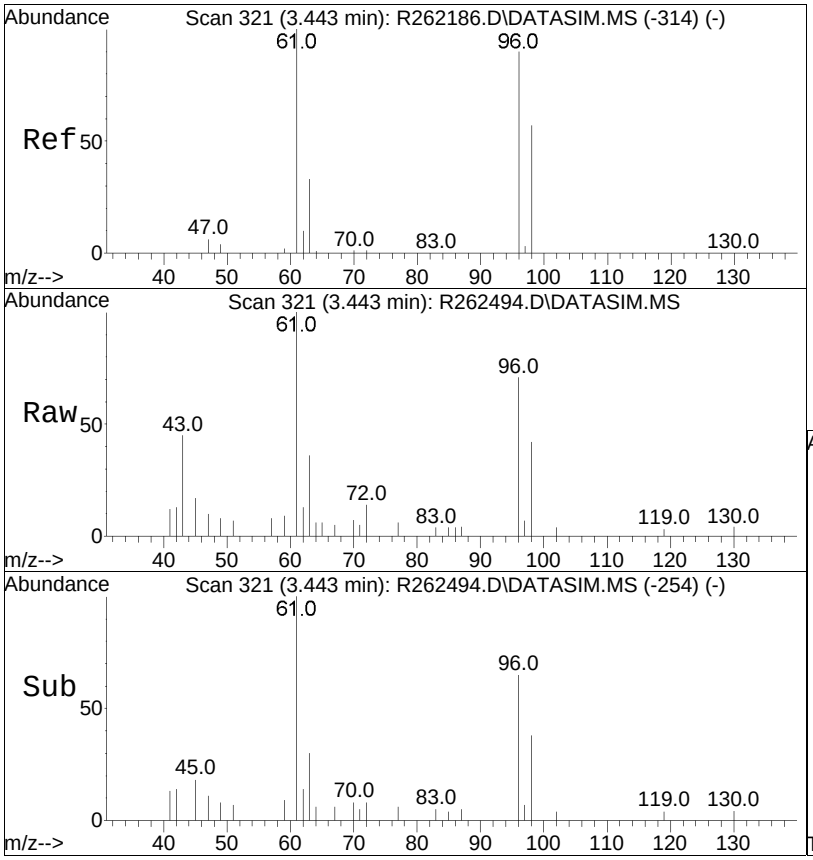


#6
vinyl chloride
Concen: 0.02 ppbV
RT: 2.147 min Scan# 66
Delta R.T. 0.006 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 62 Resp: 362

Ion	Ratio	Lower	Upper
62	100		
64	49.4	25.3	37.9#

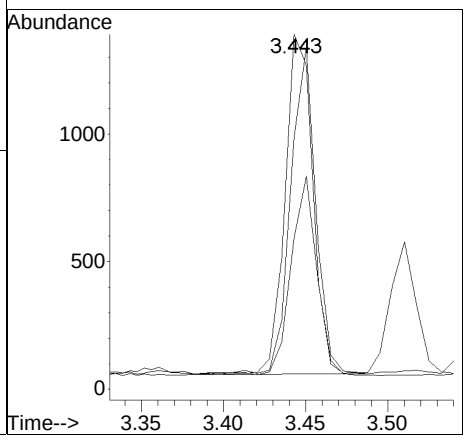


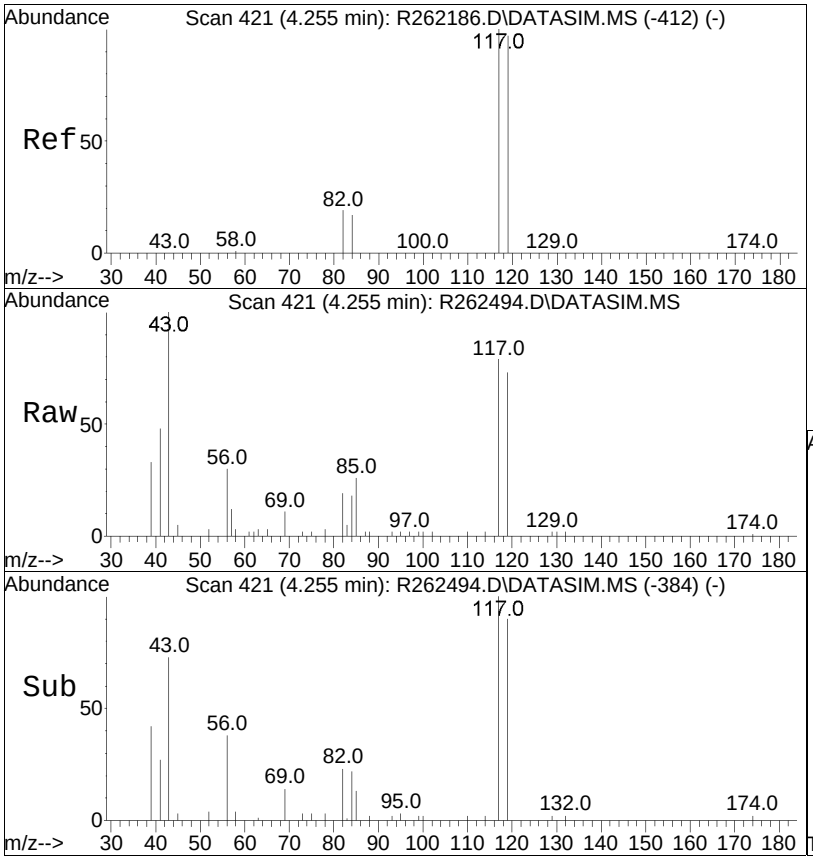


#28
cis-1,2-dichloroethene
Concen: 0.08 ppbV
RT: 3.443 min Scan# 321
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion: 61 Resp: 1562

Ion	Ratio	Lower	Upper
61	100		
96	86.1	69.8	104.8
98	51.9	44.5	66.7

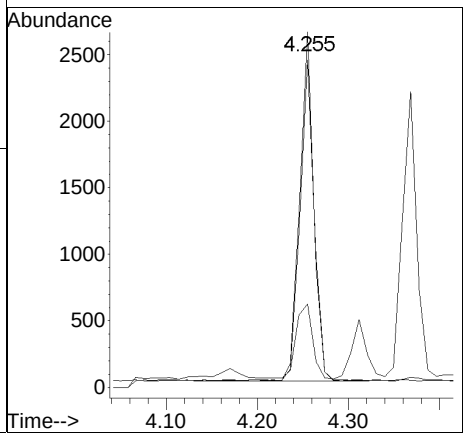


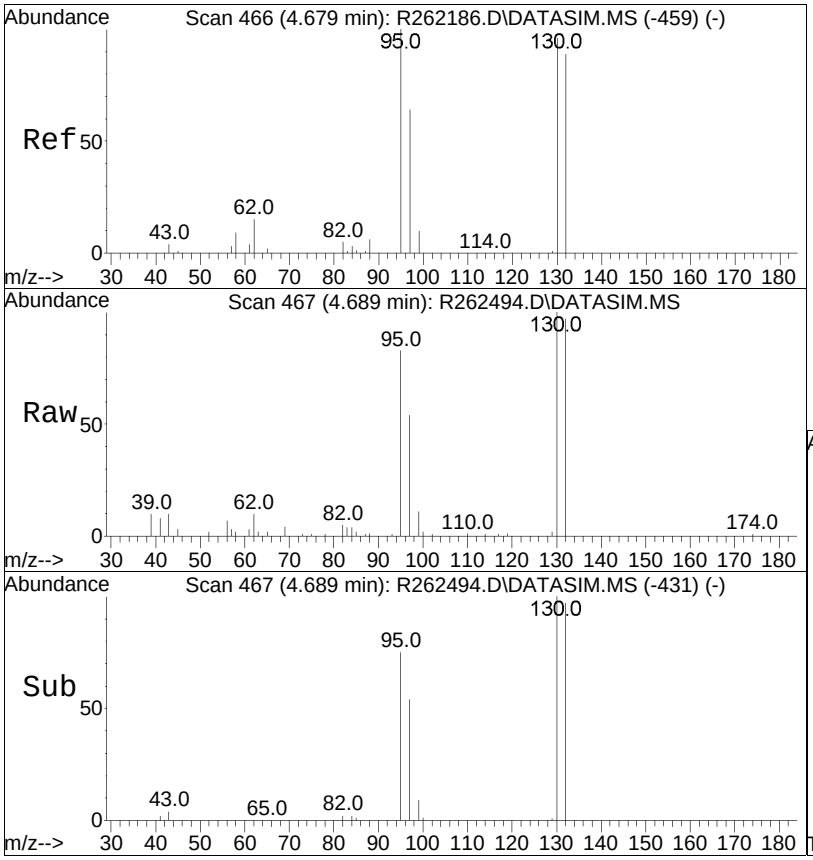


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:117 Resp: 2818

Ion	Ratio	Lower	Upper
117	100		
119	92.1	76.9	115.3
82	24.9	26.0	39.0#

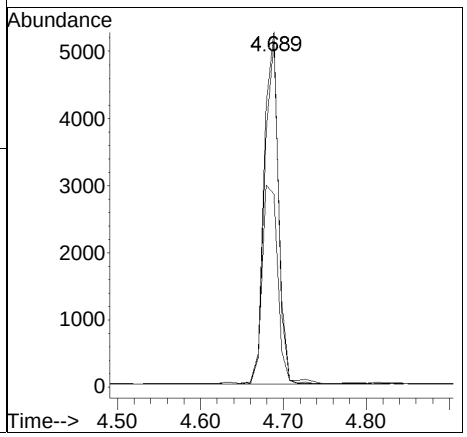


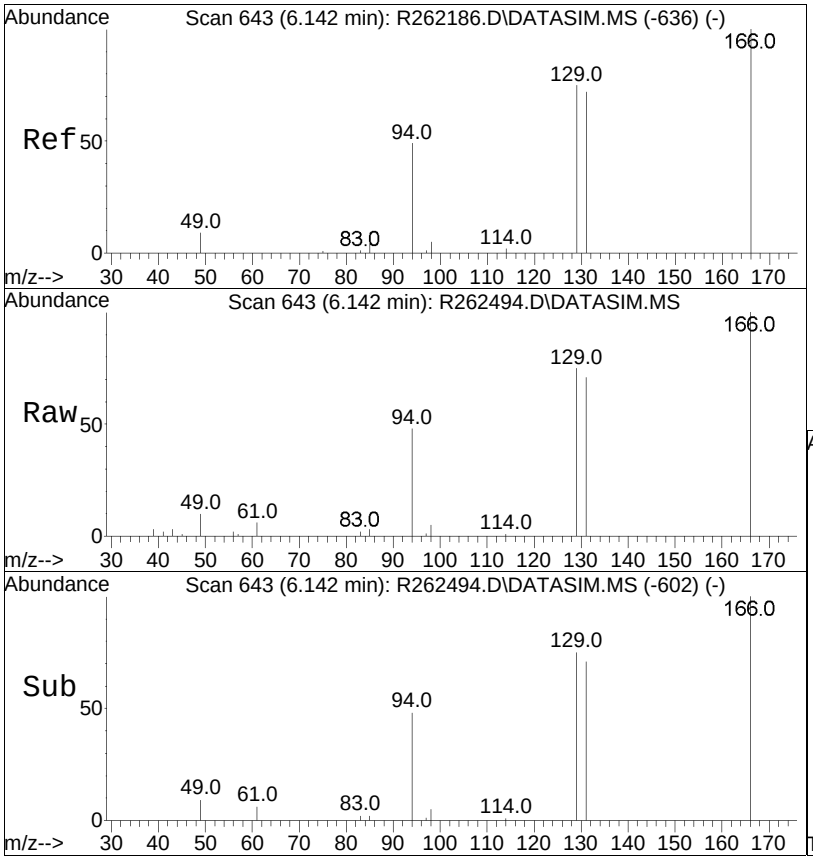


#44
trichloroethene
Concen: 0.26 ppbV
RT: 4.689 min Scan# 467
Delta R.T. 0.009 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:130 Resp: 6285

Ion	Ratio	Lower	Upper
130	100		
132	95.2	76.5	114.7
97	62.7	49.4	74.2

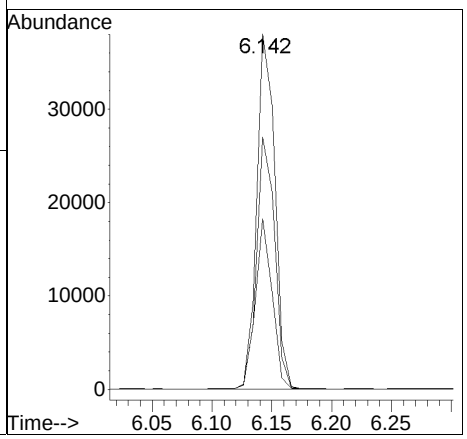




#57
tetrachloroethene
Concen: 1.30 ppbV
RT: 6.142 min Scan# 643
Delta R.T. 0.000 min
Lab File: R262494.D
Acq: 27 Mar 2025 09:42 pm

Tgt Ion:166 Resp: 39992

Ion	Ratio	Lower	Upper
166	100		
131	70.6	57.4	86.0
94	44.5	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262494.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 9:42 pm	Instrument	: Airlab26
Sample	: L2514968-04,3,250,250	Quant Date	: 3/28/2025 7:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262495.D
Acq On : 27 Mar 2025 10:16 pm
Operator : AIRLAB26:TPH
Sample : L2514968-05D,3,122.5,250
Misc : WG2046190,ICAL22108
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 07:25:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

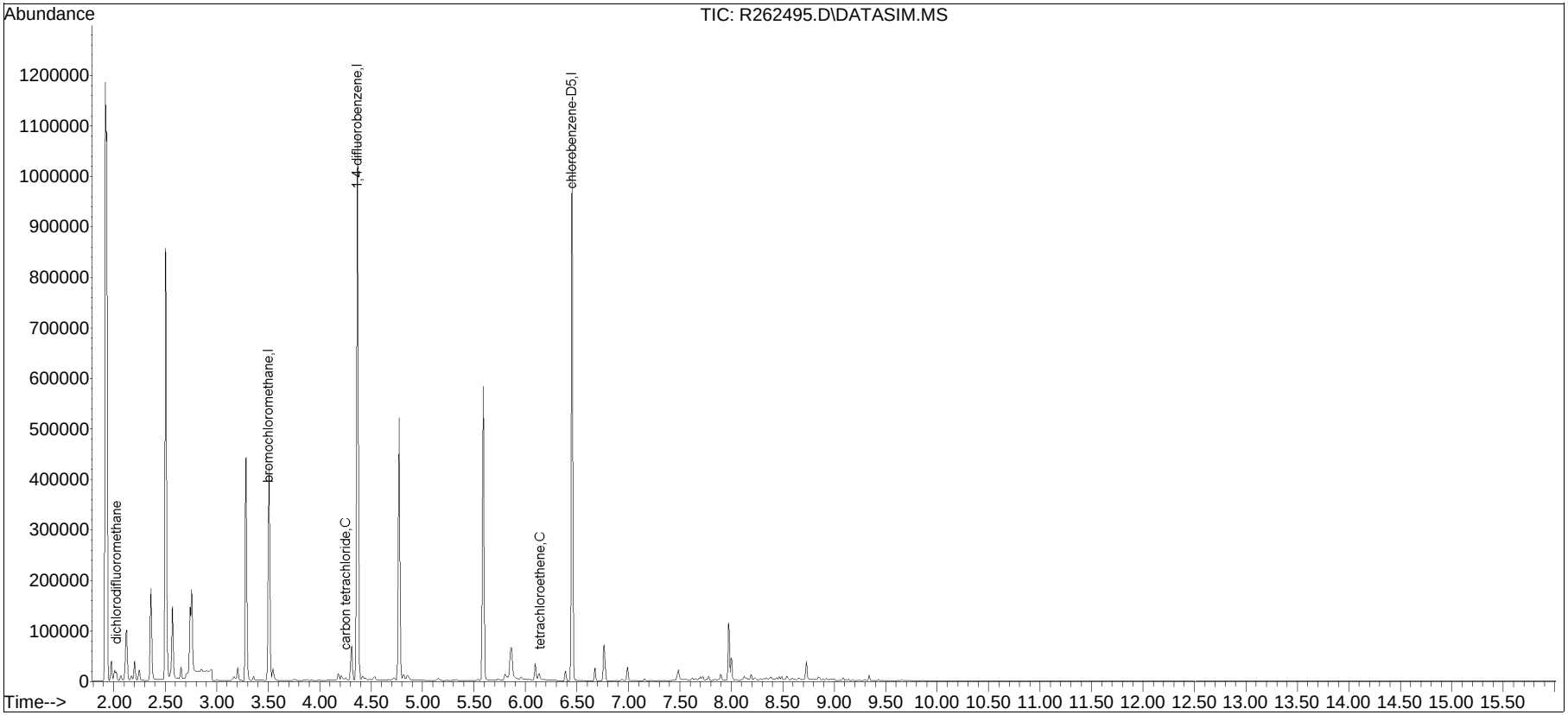
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	201278	10.000	ppbV	0.00
Standard Area = 206550			Recovery =		97.45%	
33) 1,4-difluorobenzene	4.368	114	684716	10.000	ppbV	0.00
Standard Area = 727429			Recovery =		94.13%	
51) chlorobenzene-D5	6.452	54	103058	10.000	ppbV	0.00
Standard Area = 103758			Recovery =		99.33%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.142		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.450		0	N.D.		
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	1378	0.039	ppbV	96
44) trichloroethene	4.688		0	N.D.		
57) tetrachloroethene	6.142	166	822	0.027	ppbV #	84

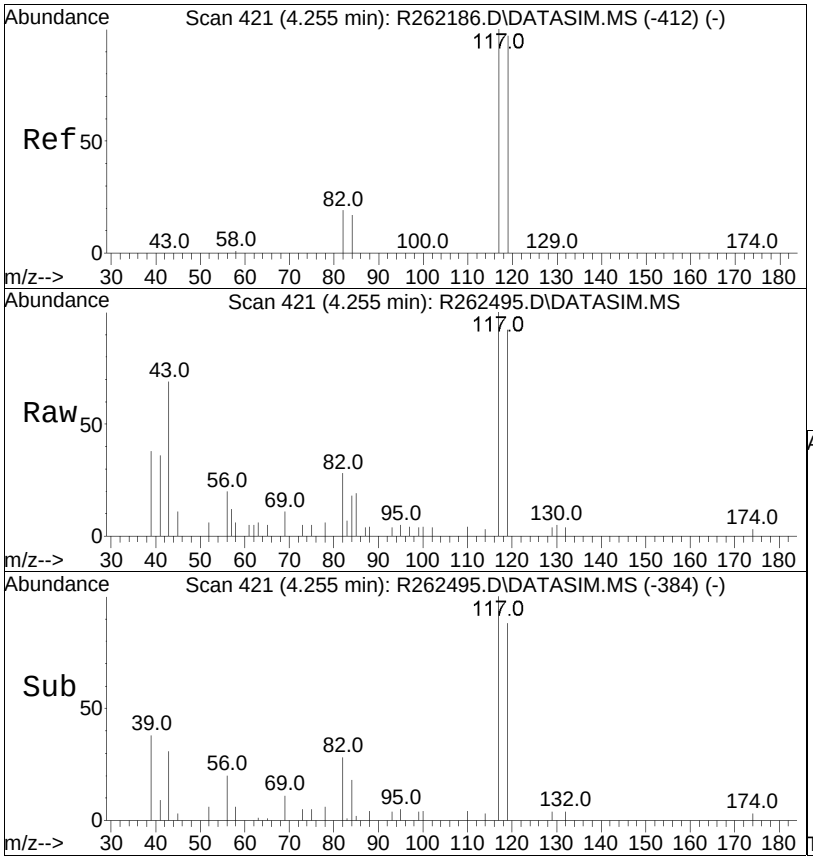
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262495.D
Acq On : 27 Mar 2025 10:16 pm
Operator : AIRLAB26:TPH
Sample : L2514968-05D,3,122.5,250
Misc : WG2046190,ICAL22108
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 28 07:25:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

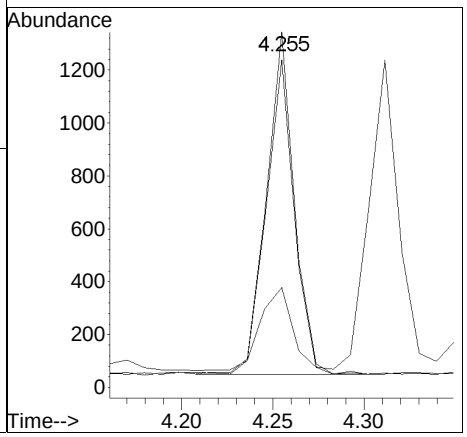


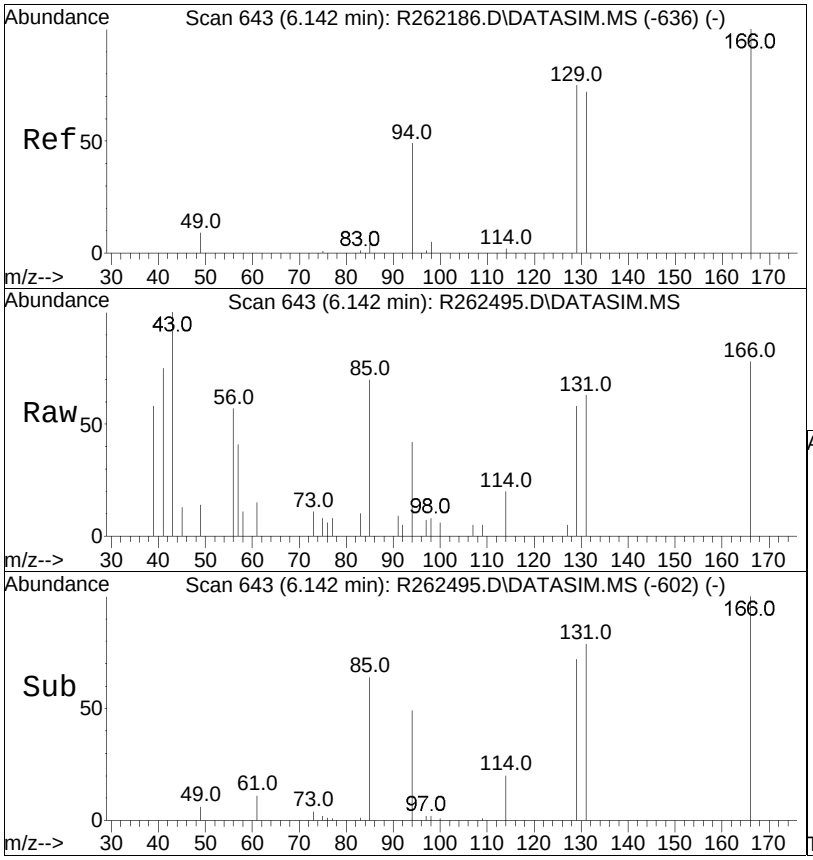


#38
carbon tetrachloride
Concen: 0.04 ppbV
RT: 4.255 min Scan# 421
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:117 Resp: 1378

Ion	Ratio	Lower	Upper
117	100		
119	93.0	76.9	115.3
82	28.4	26.0	39.0

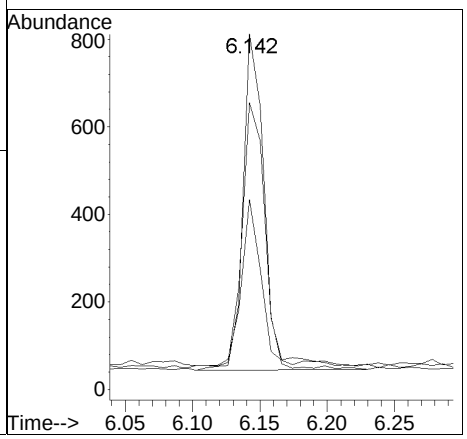




#57
tetrachloroethene
Concen: 0.03 ppbV
RT: 6.142 min Scan# 643
Delta R.T. -0.000 min
Lab File: R262495.D
Acq: 27 Mar 2025 10:16 pm

Tgt Ion:166 Resp: 822

Ion	Ratio	Lower	Upper
166	100		
131	91.8	57.4	86.0#
94	47.8	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262495.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 10:16 pm	Instrument	: Airlab26
Sample	: L2514968-05D,3,122.5,250	Quant Date	: 3/28/2025 7:25 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262496.D
Acq On : 27 Mar 2025 10:48 pm
Operator : AIRLAB26:TPH
Sample : L2514968-06,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 07:25:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

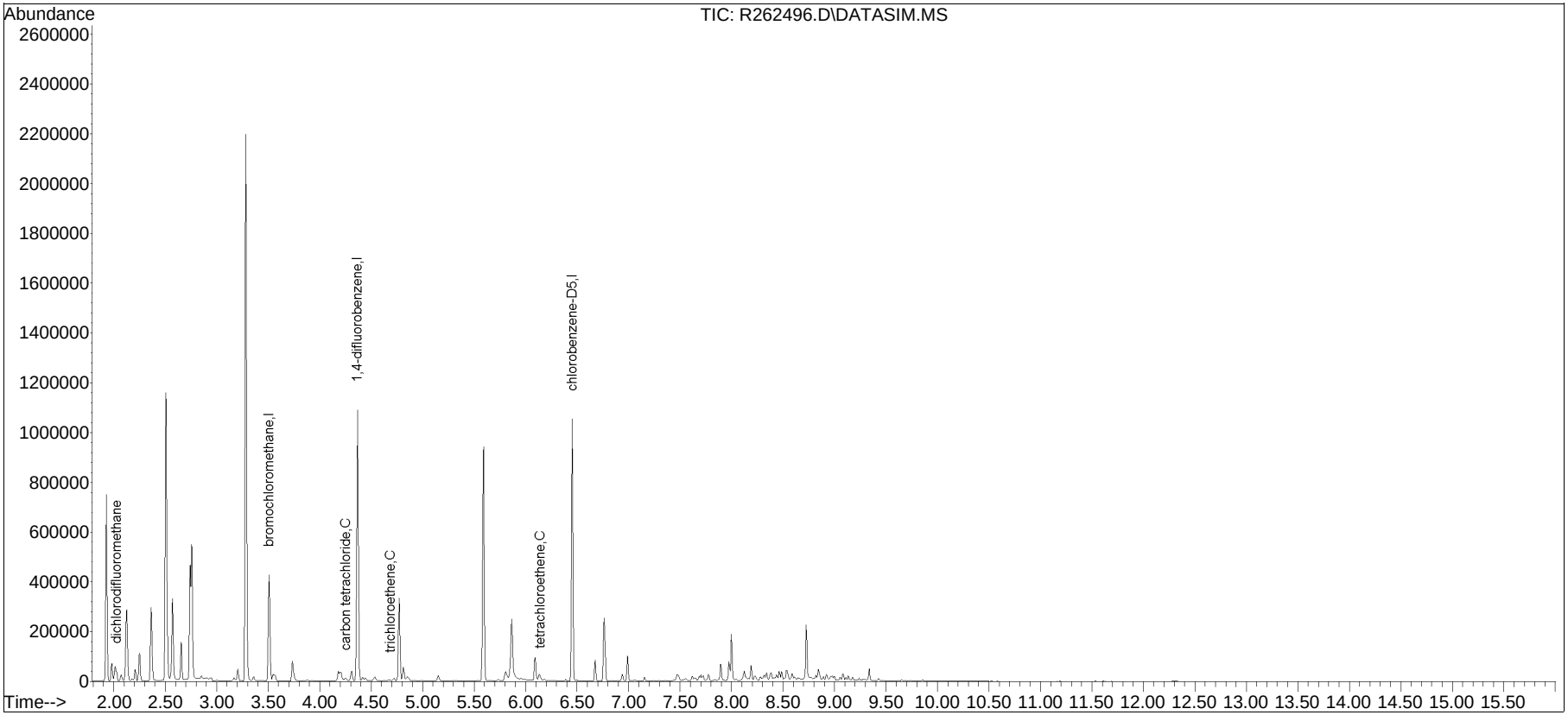
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.510	49	202807	10.000	ppbV	0.00
Standard Area = 206550			Recovery = 98.19%			
33) 1,4-difluorobenzene	4.368	114	692948	10.000	ppbV	0.00
Standard Area = 727429			Recovery = 95.26%			
51) chlorobenzene-D5	6.452	54	105170	10.000	ppbV	0.00
Standard Area = 103758			Recovery = 101.36%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D. d		
17) 1,1-dichloroethene	0.000		0	N.D. d		
28) cis-1,2-dichloroethene	3.443		0	N.D.		
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	3012	0.084	ppbV #	87
44) trichloroethene	4.689	130	532	0.022	ppbV	91
57) tetrachloroethene	6.142	166	3822	0.124	ppbV	97

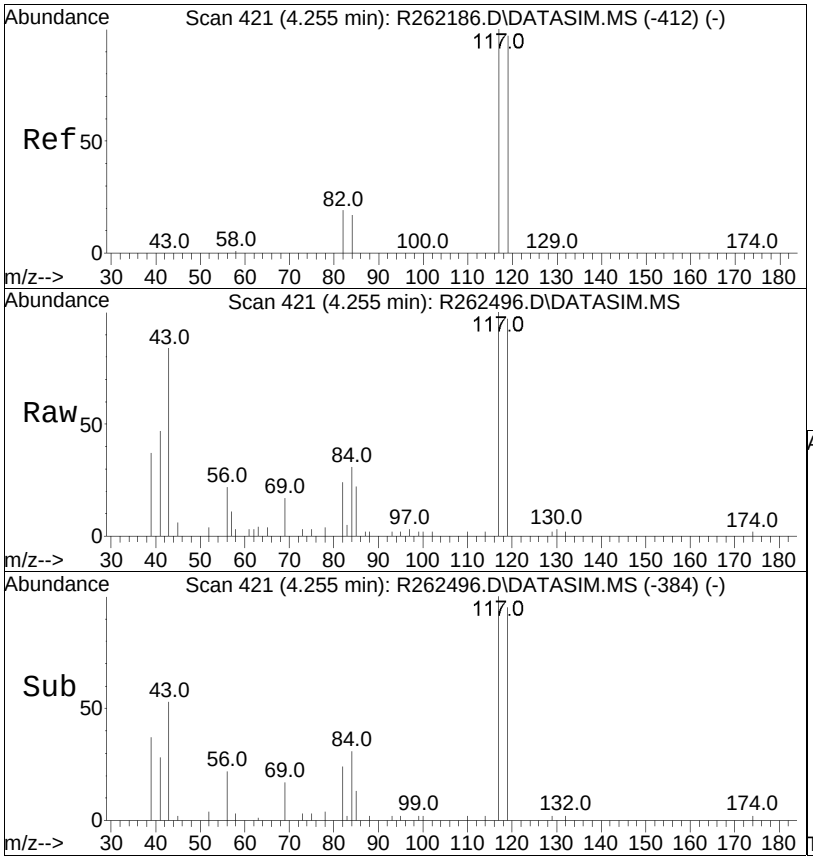
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262496.D
Acq On : 27 Mar 2025 10:48 pm
Operator : AIRLAB26:TPH
Sample : L2514968-06,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 28 07:25:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

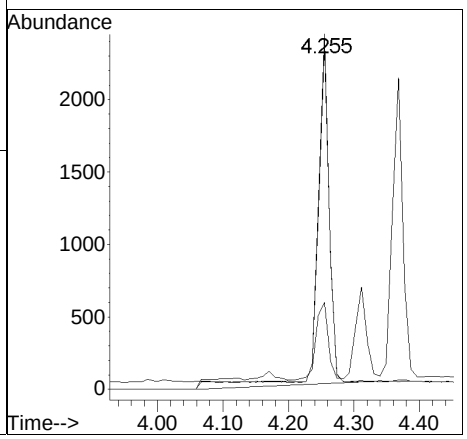


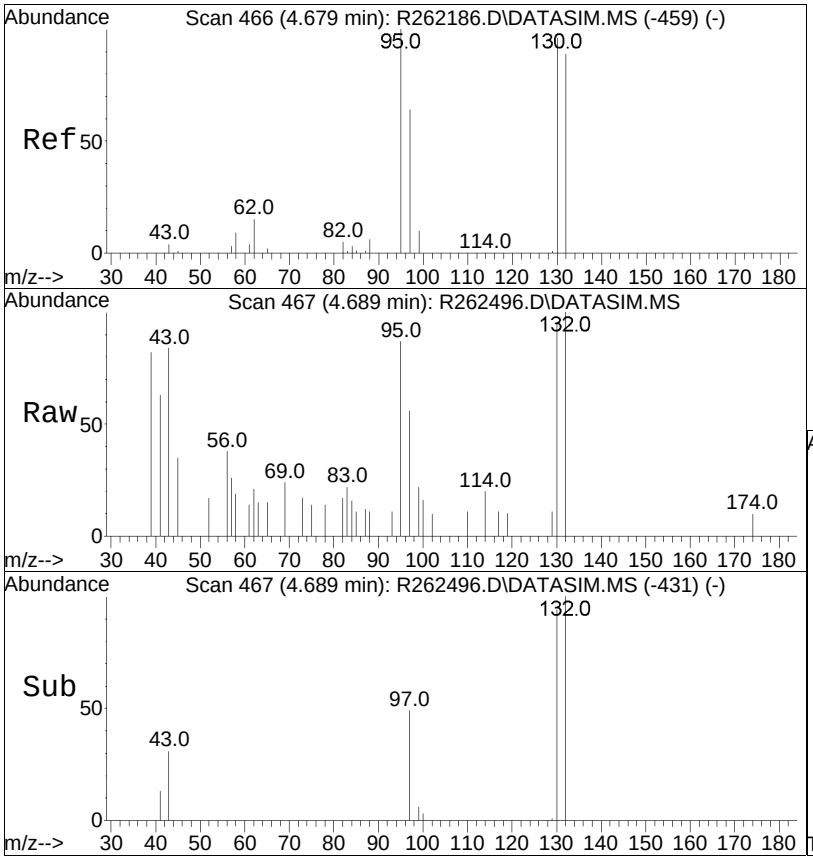


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:117 Resp: 3012

Ion	Ratio	Lower	Upper
117	100		
119	84.6	76.9	115.3
82	22.6	26.0	39.0#

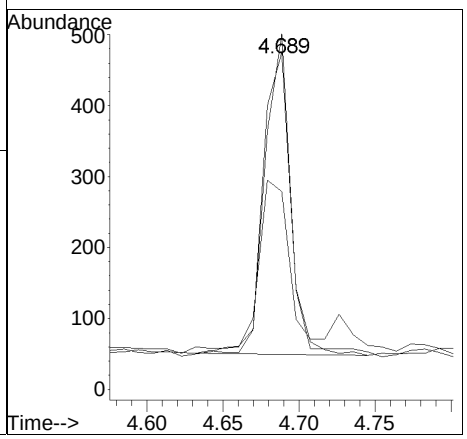


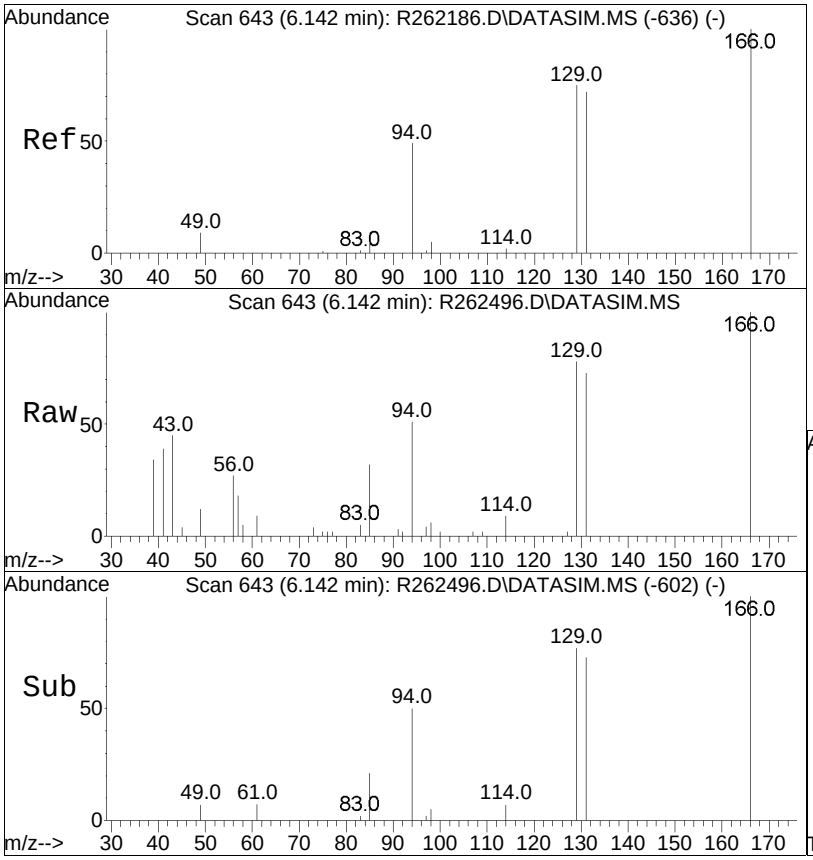


#44
trichloroethene
Concen: 0.02 ppbV
RT: 4.689 min Scan# 467
Delta R.T. 0.010 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:130 Resp: 532

Ion	Ratio	Lower	Upper
130	100		
132	102.6	76.5	114.7
97	71.6	49.4	74.2

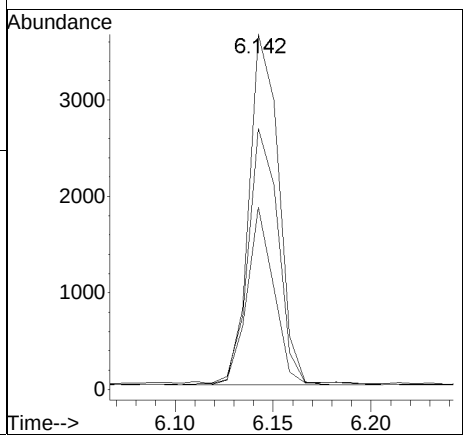




#57
tetrachloroethene
Concen: 0.12 ppbV
RT: 6.142 min Scan# 643
Delta R.T. 0.000 min
Lab File: R262496.D
Acq: 27 Mar 2025 10:48 pm

Tgt Ion:166 Resp: 3822

Ion	Ratio	Lower	Upper
166	100		
131	74.6	57.4	86.0
94	45.2	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262496.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/27/2025 10:48 pm	Instrument	: Airlab26
Sample	: L2514968-06,3,250,250	Quant Date	: 3/28/2025 7:25 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	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22108**
Calibration dates	**: 03/14/25 20:29 03/15/25 01:31**		

Calibration Files

0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D

5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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				0.168	0.141	0.168	0.145	0.162	0.231	0.260	0.182	24.86
3)		dichlorodifluoromethane				1.826	1.790	1.829	1.854	1.918	1.869	1.858	1.849	2.17
4)	C	chloromethane				0.638	0.628	0.640	0.651	0.634	0.610	0.607	0.630	2.58
5)		Freon-114		2.649	2.583	2.441	2.413	2.471	2.530	2.518	2.427	2.414	2.494	3.31
6)	C	vinyl chloride	1.013	0.878	0.846	0.812	0.813	0.793	0.831	0.821	0.793	0.777	0.838	8.13
7)	C	1,3-butadiene	0.637	0.558	0.520	0.487	0.482	0.486	0.373	0.375	0.486	0.477	0.488	15.88
8)	C	bromomethane	0.986	0.938	0.912	0.830	0.833	0.841	0.853	0.846	0.823	0.807	0.867	6.73
9)	C	chloroethane			0.491	0.449	0.450	0.448	0.456	0.448	0.435	0.422	0.450	4.38
10)		ethanol					0.490	0.454	0.411	0.371	0.398	0.399	0.420	10.38
11)	C	vinyl bromide				1.022	0.958	0.968	0.735	0.727	0.919	0.883	0.887	12.98
12)	C	acrolein		0.576	0.579	0.435	0.409	0.421	0.421	0.416	0.407	0.393	0.451	16.10
13)		acetone				1.522	1.361	1.347	1.003	0.980	1.217	1.081	1.216	16.84
14)		trichlorofluoromethane		3.633	3.587	3.299	3.278	3.297	3.342	3.294	3.138	2.948	3.313	6.26
15)		isopropyl alcohol				1.642	1.544	1.556	1.174	1.068	1.443	1.355	1.397	15.15
16)	C	acrylonitrile				0.889	0.918	0.895	0.836	0.862	0.840	0.816	0.865	4.28
17)	C	1,1-dichloroethene	2.068	2.149	2.056	2.041	1.990	1.998	2.038	2.000	1.893	1.799	2.003	4.85
18)		tertiary butyl alcohol					2.590	2.471	2.576	2.341	2.465	2.350	2.465	4.32
19)	C	methylene chloride					1.443	1.397	1.388	1.465	1.276	1.183	1.359	7.95
20)	C	3-chloropropene				1.165	1.150	1.179	0.898	0.891	1.130	1.081	1.071	11.61
21)	C	carbon disulfide				3.198	3.217	3.257	2.496	2.456	3.074	2.905	2.943	11.55
22)		Freon 113	3.077	3.008	2.946	2.758	2.736	2.774	2.817	2.744	2.586	2.452	2.790	6.73
23)		trans-1,2-dichloroethene	1.914	1.890	1.814	1.704	1.684	1.727	1.337	1.315	1.637	1.564	1.659	12.41
24)	C	1,1-dichloroethane	2.630	2.519	2.477	2.326	2.329	2.365	2.412	2.356	2.213	2.095	2.372	6.40
25)	C	MTBE	3.573	3.528	3.324	3.122	3.075	3.110	2.407	2.368	2.987	2.838	3.033	13.51
26)	C	vinyl acetate					2.016	2.456	1.625	1.655	2.276	2.336	2.061	17.29
27)	C	2-butanone				1.152	1.375	1.347	1.071	1.113	1.432	1.418	1.272	12.15
28)		cis-1,2-dichloroethene	1.185	1.061	1.000	0.943	0.931	0.934	0.985	1.001	0.983	0.989	1.001	7.52
29)		Ethyl Acetate					0.266	0.219	0.184	0.168	0.239	0.239	0.219	16.85
30)	C	chloroform	1.903	2.337	1.846	1.657	1.649	1.676	1.749	1.755	1.730	1.742	1.804	11.27
31)		Tetrahydrofuran				0.531	0.455	0.466	0.381	0.393	0.533	0.539	0.471	14.15
32)	C	1,2-dichloroethane	1.270	1.176	1.126	1.205	1.081	1.060	1.081	1.076	1.046	1.029	1.115	7.00
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.260	0.252	0.253	0.191	0.192	0.255	0.258	0.237	13.15
35)	s	1,2-dichloroethane-D4				0.315	0.315	0.315	0.316	0.317	0.319	0.348	0.321	3.83
36)	C	1,1,1-trichloroethane	0.545	0.536	0.530	0.496	0.495	0.487	0.510	0.507	0.500	0.497	0.510	3.88

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22108**
Calibration dates	**: 03/14/25 20:29 03/15/25 01:31**		

Calibration Files

0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D

5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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		0.687	0.701	0.672	0.646	0.637	0.663	0.660	0.643	0.623	0.659	3.75
38)	C	carbon tetrachloride	0.554	0.522	0.527	0.492	0.507	0.501	0.520	0.526	0.514	0.521	0.519	3.26
39)		cyclohexane				0.256	0.242	0.250	0.200	0.195	0.254	0.256	0.236	11.43
40)		Dibromomethane		0.353	0.334	0.305	0.300	0.295	0.299	0.294	0.293	0.291	0.307	7.08
41)	C	1,2-dichloropropane	0.248	0.268	0.238	0.233	0.230	0.227	0.236	0.235	0.228	0.226	0.237	5.41
42)		bromodichloromethane	0.490	0.529	0.510	0.478	0.460	0.472	0.370	0.373	0.476	0.485	0.464	11.33
43)	C	1,4-dioxane			0.137	0.140	0.127	0.128	0.104	0.103	0.141	0.147	0.128	13.07
44)	C	trichloroethene	0.347	0.361	0.351	0.329	0.328	0.327	0.345	0.347	0.343	0.349	0.343	3.31
45)	C	2,2,4-trimethylpentane				0.794	0.791	0.795	0.629	0.631	0.820	0.795	0.751	11.06
46)		heptane				0.244	0.242	0.250	0.202	0.202	0.261	0.259	0.237	10.51
47)	C	cis-1,3-dichloropropene	0.351	0.352	0.340	0.323	0.329	0.330	0.355	0.364	0.363	0.366	0.347	4.51
48)	C	4-methyl-2-pentanone					0.342	0.345	0.296	0.299	0.385	0.377	0.341	10.96
49)		trans-1,3-dichloropropene	0.283	0.259	0.270	0.258	0.252	0.262	0.287	0.300	0.303	0.311	0.278	7.60
50)	C	1,1,2-trichloroethane	0.334	0.316	0.315	0.299	0.298	0.294	0.312	0.308	0.303	0.301	0.308	3.79
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			5.556	5.449	5.240	5.285	5.568	5.683	5.619	5.383	5.473	2.93
53)	s	toluene-D8				5.291	5.205	5.297	5.286	5.459	5.517	5.341	5.342	2.03
54)		2-hexanone				2.136	2.048	2.114	1.889	1.993	2.600	2.549	2.190	12.57
55)		dibromochloromethane	3.306	3.380	3.316	2.956	2.984	3.025	2.555	2.669	3.615	3.643	3.145	11.75
56)	C	1,2-dibromoethane	3.425	3.312	3.209	2.956	2.989	3.016	3.250	3.372	3.336	3.283	3.215	5.24
57)	C	tetrachloroethene	3.070	3.016	2.889	2.679	2.705	2.700	2.961	3.109	3.130	3.150	2.941	6.36
58)		1,1,1,2-tetrachloroethane	2.664	2.621	2.484	2.307	2.293	2.320	2.509	2.662	2.744	2.843	2.545	7.62
59)	C	chlorobenzene	5.483	5.270	5.070	4.531	4.562	4.528	4.895	5.028	4.967	4.892	4.923	6.46
60)	C	ethylbenzene	7.577	7.102	6.837	6.246	6.360	6.481	7.478	7.719	7.525	7.033	7.036	7.68
61)	C	m+p-xylene	5.800	5.668	5.516	5.134	5.254	5.461	6.115	6.317	6.143	5.855	5.726	6.85
62)	C	bromoform	2.715	2.650	2.875	2.462	2.474	2.561	2.338	2.566	3.582	3.939	2.816	18.67
63)	C	styrene	3.568	3.788	3.593	3.225	3.244	3.551	4.337	4.558	4.589	4.473	3.893	13.95
64)	C	1,1,2,2-tetrachloroethane	4.805	4.639	4.596	4.164	4.184	4.257	4.654	4.803	4.735	4.623	4.546	5.48
65)	C	o-xylene	5.476	5.143	5.325	4.804	4.932	5.151	5.912	6.064	5.961	5.765	5.453	8.28
66)		1,2,3-Trichloropropane	3.489	3.349	3.321	3.016	2.997	3.036	3.220	3.309	3.263	3.181	3.218	5.03
67)	s	bromofluorobenzene				3.315	3.327	3.420	3.575	3.629	3.611	3.505	3.483	3.77
68)	C	isopropylbenzene				7.103	7.304	7.493	8.224	8.536	8.287	7.634	7.797	7.05
69)		Bromobenzene	5.307	3.275	3.984	4.833	3.544	3.493	3.636	5.278	3.709	3.742	4.080	18.71
70)		4-ethyl toluene	5.956	6.247	6.433	5.920	6.022	6.489	5.858	6.123	7.891	7.320	6.426	10.42
71)		1,3,5-trimethylbenzene	5.802	5.181	5.182	5.208	5.203	5.655	6.819	6.937	6.868	6.433	5.929	12.82
72)		tert-butylbenzene				5.875	6.008	6.333	7.618	7.871	7.918	7.837	7.066	13.36

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Haley & Aldrich**	**Lab Number**	**: L2514968**
Project Name	**: 340 MYRTLE AVE**	**Project Number**	**: 0210873-000-001-13**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22108**
Calibration dates	**: 03/14/25 20:29 03/15/25 01:31**		

Calibration Files

0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D

5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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	5.619	5.482	5.481	5.182	5.389	5.862	7.174	7.394	7.354	7.240	6.218	15.13
74) C	Benzyl Chloride			2.701	2.586	2.735	2.871	3.039	3.541	5.297	5.934	3.588	36.13
75)	1,3-dichlorobenzene	4.733	4.702	4.739	4.444	4.433	4.772	5.608	5.879	5.697	5.903	5.091	11.84
76) C	1,4-dichlorobenzene	5.368	5.038	4.842	4.579	4.628	4.855	5.612	6.022	5.972	6.048	5.296	11.05
77)	sec-butylbenzene				0.829	0.867	0.911	1.059	1.077	1.067	0.942	0.964	10.64
78)	p-isopropyltoluene				0.707	0.757	0.817	0.978	1.006	0.995	0.926	0.884	13.81
79)	1,2-dichlorobenzene	5.020	4.655	4.717	4.369	4.519	4.649	5.535	5.756	5.593	5.548	5.036	10.36
80)	n-butylbenzene				6.287	6.691	7.257	8.750	8.882	8.850	8.201	7.845	13.90
81)	1,2-dibromo-3-chloropr...	2.313	1.999	2.017	1.817	1.831	1.963	2.305	2.429	2.468	2.672	2.181	13.49
82) C	1,2,4-trichlorobenzene		3.509	3.659	3.305	3.467	3.849	4.853	5.447	5.386	5.779	4.362	22.75
83)	naphthalene		0.810	0.786	0.711	0.771	1.026	1.109	1.225	1.170	1.021	0.959	20.04
84)	1,2,3-trichlorobenzene		3.827	3.644	2.999	3.140	3.709	5.987	5.963	5.609	5.970	4.539	28.77
85) C	hexachlorobutadiene		3.081	2.860	2.501	2.985	3.184	4.151	4.447	4.459	5.072	3.638	24.76

Response Factor Report Airlab26

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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				0.168	0.141	0.168	0.145	0.162	0.231	0.260	0.182	24.86
3)		dichlorodifluo...				1.826	1.790	1.829	1.854	1.918	1.869	1.858	1.849	2.17
4)	C	chloromethane				0.638	0.628	0.640	0.651	0.634	0.610	0.607	0.630	2.58
5)		Freon-114		2.649	2.583	2.441	2.413	2.471	2.530	2.518	2.427	2.414	2.494	3.31
6)	C	vinyl chloride	1.013	0.878	0.846	0.812	0.813	0.793	0.831	0.821	0.793	0.777	0.838	8.13
7)	C	1,3-butadiene	0.637	0.558	0.520	0.487	0.482	0.486	0.373	0.375	0.486	0.477	0.488	15.88
8)	C	bromomethane	0.986	0.938	0.912	0.830	0.833	0.841	0.853	0.846	0.823	0.807	0.867	6.73
9)	C	chloroethane			0.491	0.449	0.450	0.448	0.456	0.448	0.435	0.422	0.450	4.38
10)		ethanol					0.490	0.454	0.411	0.371	0.398	0.399	0.420	10.38
11)	C	vinyl bromide				1.022	0.958	0.968	0.735	0.727	0.919	0.883	0.887	12.98
12)	C	acrolein		0.576	0.579	0.435	0.409	0.421	0.421	0.416	0.407	0.393	0.451	16.10
13)		acetone				1.522	1.361	1.347	1.003	0.980	1.217	1.081	1.216	16.84
14)		trichlorofluor...		3.633	3.587	3.299	3.278	3.297	3.342	3.294	3.138	2.948	3.313	6.26
15)		isopropyl alcohol				1.642	1.544	1.556	1.174	1.068	1.443	1.355	1.397	15.15
16)	C	acrylonitrile				0.889	0.918	0.895	0.836	0.862	0.840	0.816	0.865	4.28

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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...	2.068	2.149	2.056	2.041	1.990	1.998	2.038	2.000	1.893	1.799	2.003	4.85
18)		tertiary butyl...					2.590	2.471	2.576	2.341	2.465	2.350	2.465	4.32
19)	C	methylene chlo...					1.443	1.397	1.388	1.465	1.276	1.183	1.359	7.95
20)	C	3-chloropropene				1.165	1.150	1.179	0.898	0.891	1.130	1.081	1.071	11.61
21)	C	carbon disulfide				3.198	3.217	3.257	2.496	2.456	3.074	2.905	2.943	11.55
22)		Freon 113	3.077	3.008	2.946	2.758	2.736	2.774	2.817	2.744	2.586	2.452	2.790	6.73
23)		trans-1,2-dich...	1.914	1.890	1.814	1.704	1.684	1.727	1.337	1.315	1.637	1.564	1.659	12.41
24)	C	1,1-dichloroet...	2.630	2.519	2.477	2.326	2.329	2.365	2.412	2.356	2.213	2.095	2.372	6.40
25)	C	MTBE	3.573	3.528	3.324	3.122	3.075	3.110	2.407	2.368	2.987	2.838	3.033	13.51
26)	C	vinyl acetate					2.016	2.456	1.625	1.655	2.276	2.336	2.061	17.29
27)	C	2-butanone				1.152	1.375	1.347	1.071	1.113	1.432	1.418	1.272	12.15
28)		cis-1,2-dichlo...	1.185	1.061	1.000	0.943	0.931	0.934	0.985	1.001	0.983	0.989	1.001	7.52
29)		Ethyl Acetate					0.266	0.219	0.184	0.168	0.239	0.239	0.219	16.85
30)	C	chloroform	1.903	2.337	1.846	1.657	1.649	1.676	1.749	1.755	1.730	1.742	1.804	11.27
31)		Tetrahydrofuran				0.531	0.455	0.466	0.381	0.393	0.533	0.539	0.471	14.15
32)	C	1,2-dichloroet...	1.270	1.176	1.126	1.205	1.081	1.060	1.081	1.076	1.046	1.029	1.115	7.00

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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				0.260	0.252	0.253	0.191	0.192	0.255	0.258	0.237	13.15
35)	s	1,2-dichloroet...				0.315	0.315	0.315	0.316	0.317	0.319	0.348	0.321	3.83
36)	C	1,1,1-trichlor...	0.545	0.536	0.530	0.496	0.495	0.487	0.510	0.507	0.500	0.497	0.510	3.88
37)	C	benzene		0.687	0.701	0.672	0.646	0.637	0.663	0.660	0.643	0.623	0.659	3.75
38)	C	carbon tetrach...	0.554	0.522	0.527	0.492	0.507	0.501	0.520	0.526	0.514	0.521	0.519	3.26
39)		cyclohexane				0.256	0.242	0.250	0.200	0.195	0.254	0.256	0.236	11.43
40)		Dibromomethane		0.353	0.334	0.305	0.300	0.295	0.299	0.294	0.293	0.291	0.307	7.08
41)	C	1,2-dichloropr...	0.248	0.268	0.238	0.233	0.230	0.227	0.236	0.235	0.228	0.226	0.237	5.41
42)		bromodichlorom...	0.490	0.529	0.510	0.478	0.460	0.472	0.370	0.373	0.476	0.485	0.464	11.33
43)	C	1,4-dioxane			0.137	0.140	0.127	0.128	0.104	0.103	0.141	0.147	0.128	13.07
44)	C	trichloroethene	0.347	0.361	0.351	0.329	0.328	0.327	0.345	0.347	0.343	0.349	0.343	3.31
45)	C	2,2,4-trimethy...				0.794	0.791	0.795	0.629	0.631	0.820	0.795	0.751	11.06
46)		heptane				0.244	0.242	0.250	0.202	0.202	0.261	0.259	0.237	10.51
47)	C	cis-1,3-dichlo...	0.351	0.352	0.340	0.323	0.329	0.330	0.355	0.364	0.363	0.366	0.347	4.51
48)	C	4-methyl-2-pen...					0.342	0.345	0.296	0.299	0.385	0.377	0.341	10.96

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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...	0.283	0.259	0.270	0.258	0.252	0.262	0.287	0.300	0.303	0.311	0.278	7.60
50)	C	1,1,2-trichlor...	0.334	0.316	0.315	0.299	0.298	0.294	0.312	0.308	0.303	0.301	0.308	3.79
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene				5.556	5.449	5.240	5.285	5.568	5.683	5.619	5.383	5.473	2.93
53)	s	toluene-D8					5.291	5.205	5.297	5.286	5.459	5.517	5.341	5.342	2.03
54)		2-hexanone					2.136	2.048	2.114	1.889	1.993	2.600	2.549	2.190	12.57
55)		dibromochlorom...	3.306	3.380	3.316	2.956	2.984	3.025	2.555	2.669	3.615	3.643	3.145	11.75
56)	C	1,2-dibromoethane	3.425	3.312	3.209	2.956	2.989	3.016	3.250	3.372	3.336	3.283	3.215	5.24
57)	C	tetrachloroethene	3.070	3.016	2.889	2.679	2.705	2.700	2.961	3.109	3.130	3.150	2.941	6.36
58)		1,1,1,2-tetrac...	2.664	2.621	2.484	2.307	2.293	2.320	2.509	2.662	2.744	2.843	2.545	7.62
59)	C	chlorobenzene	5.483	5.270	5.070	4.531	4.562	4.528	4.895	5.028	4.967	4.892	4.923	6.46
60)	C	ethylbenzene	7.577	7.102	6.837	6.246	6.360	6.481	7.478	7.719	7.525	7.033	7.036	7.68
61)	C	m+p-xylene	5.800	5.668	5.516	5.134	5.254	5.461	6.115	6.317	6.143	5.855	5.726	6.85
62)	C	bromoform	2.715	2.650	2.875	2.462	2.474	2.561	2.338	2.566	3.582	3.939	2.816	18.67
63)	C	styrene	3.568	3.788	3.593	3.225	3.244	3.551	4.337	4.558	4.589	4.473	3.893	13.95
64)	C	1,1,2,2-tetrac...	4.805	4.639	4.596	4.164	4.184	4.257	4.654	4.803	4.735	4.623	4.546	5.48

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.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	5.476	5.143	5.325	4.804	4.932	5.151	5.912	6.064	5.961	5.765	5.453	8.28
66)		1,2,3-Trichlor...	3.489	3.349	3.321	3.016	2.997	3.036	3.220	3.309	3.263	3.181	3.218	5.03
67)	s	bromofluoroben...				3.315	3.327	3.420	3.575	3.629	3.611	3.505	3.483	3.77
68)	C	isopropylbenzene				7.103	7.304	7.493	8.224	8.536	8.287	7.634	7.797	7.05
69)		Bromobenzene	5.307	3.275	3.984	4.833	3.544	3.493	3.636	5.278	3.709	3.742	4.080	18.71
70)		4-ethyl toluene	5.956	6.247	6.433	5.920	6.022	6.489	5.858	6.123	7.891	7.320	6.426	10.42
71)		1,3,5-trimethy...	5.802	5.181	5.182	5.208	5.203	5.655	6.819	6.937	6.868	6.433	5.929	12.82
72)		tert-butylbenzene				5.875	6.008	6.333	7.618	7.871	7.918	7.837	7.066	13.36
73)		1,2,4-trimethy...	5.619	5.482	5.481	5.182	5.389	5.862	7.174	7.394	7.354	7.240	6.218	15.13
74)	C	Benzyl Chloride			2.701	2.586	2.735	2.871	3.039	3.541	5.297	5.934	3.588	36.13
#														
75)		1,3-dichlorobe...	4.733	4.702	4.739	4.444	4.433	4.772	5.608	5.879	5.697	5.903	5.091	11.84
76)	C	1,4-dichlorobe...	5.368	5.038	4.842	4.579	4.628	4.855	5.612	6.022	5.972	6.048	5.296	11.05
77)		sec-butylbenzene				0.829	0.867	0.911	1.059	1.077	1.067	0.942	0.964	10.64
78)		p-isopropyltol...				0.707	0.757	0.817	0.978	1.006	0.995	0.926	0.884	13.81
79)		1,2-dichlorobe...	5.020	4.655	4.717	4.369	4.519	4.649	5.535	5.756	5.593	5.548	5.036	10.36
80)		n-butylbenzene				6.287	6.691	7.257	8.750	8.882	8.850	8.201	7.845	13.90

Method Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Method File : TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262180.D 0.05=R262181.D 0.1 =R262182.D 0.2 =R262183.D 0.5 =R262184.D 1.0 =R262185.D
5.0 =R262186.D 10.0=R262187.D 20.0=R262188.D 50.0=R262189.D

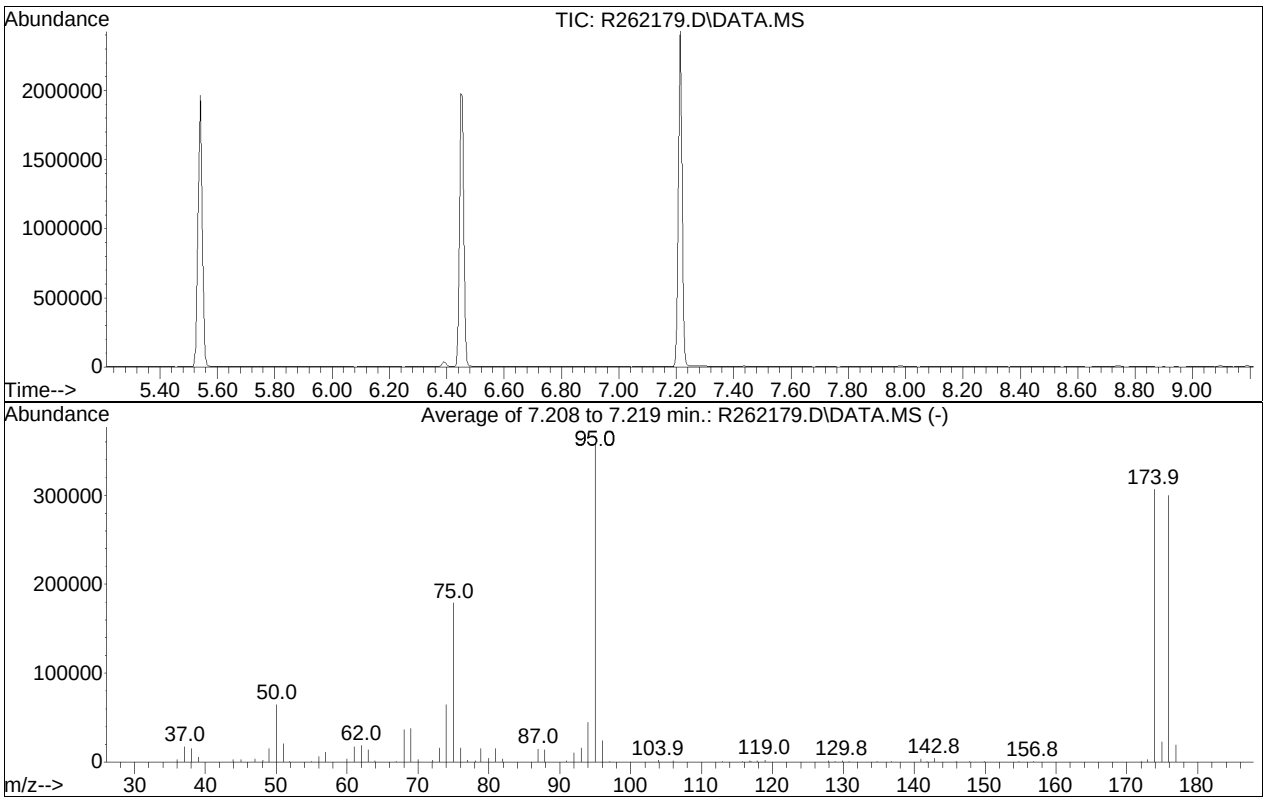
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)		1,2-dibromo-3-...	2.313	1.999	2.017	1.817	1.831	1.963	2.305	2.429	2.468	2.672	2.181	13.49
82)	C	1,2,4-trichlor...		3.509	3.659	3.305	3.467	3.849	4.853	5.447	5.386	5.779	4.362	22.75
83)		naphthalene		0.810	0.786	0.711	0.771	1.026	1.109	1.225	1.170	1.021	0.959	20.04
84)		1,2,3-trichlor...		3.827	3.644	2.999	3.140	3.709	5.987	5.963	5.609	5.970	4.539	28.77
85)	C	hexachlorobuta...		3.081	2.860	2.501	2.985	3.184	4.151	4.447	4.459	5.072	3.638	24.76

(#) = Out of Range

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262179.D
Acq On : 14 Mar 2025 07:59 pm
Operator : AIRLAB26:APR
Sample : WG2042597-1
Misc : WG2042597
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025



AutoFind: Scans 806, 807, 808; Background Corrected with Scan 801

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.0	64773	PASS
75	95	30	66	49.9	179328	PASS
95	95	100	100	100.0	359339	PASS
96	95	5	9	6.8	24291	PASS
173	174	0.00	2	1.0	3067	PASS
174	95	50	120	85.4	306965	PASS
175	174	4	9	7.5	22931	PASS
176	174	93	101	97.8	300181	PASS
177	176	5	9	6.4	19277	PASS

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262180.D
Acq On : 14 Mar 2025 08:29 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.02
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	276386	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 102.74%			
33) 1,4-difluorobenzene	4.368	114	951712	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 101.00%			
51) chlorobenzene-D5	6.453	54	139434	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 96.66%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	108	0.004	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.04%#			
53) toluene-D8	5.545	98	656	0.009	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.09%#			
67) bromofluorobenzene	7.218	95	1021	0.020	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.20%#			
Target Compounds						Qvalue
2) propylene	2.004	41	157M3	0.039	ppbV	
3) dichlorodifluoromethane	2.021	85	1208	0.024	ppbV	99
4) chloromethane	2.070	50	518M6	0.029	ppbV	
5) Freon-114	2.103	85	1457	0.021	ppbV	96
6) vinyl chloride	2.141	62	560M6	0.024	ppbV	
7) 1,3-butadiene	2.185	54	352	0.034	ppbV #	73
8) bromomethane	2.268	94	545M4	0.023	ppbV	
9) chloroethane	2.323	64	341	0.027	ppbV #	1
10) ethanol	2.356	31	7076	0.622	ppbV	100
11) vinyl bromide	2.428	106	575M4	0.028	ppbV	
12) acrolein	2.462	56	493M4	0.042	ppbV	
13) acetone	2.502	43	6466M4	0.233	ppbV	
14) trichlorofluoromethane	2.547	101	1977	0.021	ppbV	96
15) isopropyl alcohol	2.570	45	4553	0.140	ppbV	98
16) acrylonitrile	2.626	53	689M4	0.030	ppbV	
17) 1,1-dichloroethene	2.724	61	1143M4	0.020	ppbV	
18) tertiary butyl alcohol	2.743	59	2288	0.032	ppbV #	40
19) methylene chloride	2.752	49	1849M4	0.048	ppbV	
20) 3-chloropropene	2.791	41	722	0.029	ppbV	92
21) carbon disulfide	2.843	76	2071	0.030	ppbV #	67
22) Freon 113	2.843	101	1701	0.022	ppbV	100
23) trans-1,2-dichloroethene	3.055	61	1058M4	0.029	ppbV	
24) 1,1-dichloroethane	3.126	63	1454	0.022	ppbV #	72

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262180.D
Acq On : 14 Mar 2025 08:29 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.02
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc Units	Dev(Min)
25) MTBE	3.166	73	1975	0.030 ppbV #	1
26) vinyl acetate	3.188	43	1950M4	0.043 ppbV	
27) 2-butanone	3.290	43	798	0.027 ppbV #	85
28) cis-1,2-dichloroethene	3.435	61	655	0.024 ppbV	92
29) Ethyl Acetate	3.570	61	225	0.044 ppbV #	14
30) chloroform	3.562	83	1052	0.022 ppbV #	81
31) Tetrahydrofuran	3.757	42	297M6	0.028 ppbV	
32) 1,2-dichloroethane	3.863	62	702	0.024 ppbV #	94
34) hexane	3.540	57	648	0.036 ppbV #	59
36) 1,1,1-trichloroethane	3.977	97	1037	0.021 ppbV	98
37) benzene	4.179	78	1425M4	0.023 ppbV	
38) carbon tetrachloride	4.245	117	1055	0.021 ppbV	95
39) cyclohexane	4.302	56	594M3	0.031 ppbV	
40) Dibromomethane	4.538	93	830	0.029 ppbV #	100
41) 1,2-dichloropropane	4.556	63	473M4	0.021 ppbV	
42) bromodichloromethane	4.651	83	932M4	0.026 ppbV	
43) 1,4-dioxane	4.735	88	291	0.029 ppbV	87
44) trichloroethene	4.679	130	661M4	0.020 ppbV	
45) 2,2,4-trimethylpentane	4.717	57	1728	0.029 ppbV	92
46) heptane	4.858	43	504M4	0.026 ppbV	
47) cis-1,3-dichloropropene	5.106	75	668M4	0.020 ppbV	
48) 4-methyl-2-pentanone	5.170	43	722	0.026 ppbV #	100
49) trans-1,3-dichloropropene	5.377	75	538M4	0.020 ppbV	
50) 1,1,2-trichloroethane	5.449	97	635	0.021 ppbV	92
52) toluene	5.593	91	2049	0.026 ppbV	94
54) 2-hexanone	5.776	43	462M4	0.018 ppbV	
55) dibromochloromethane	5.784	129	922M4	0.026 ppbV	
56) 1,2-dibromoethane	5.896	107	955M4	0.021 ppbV	
57) tetrachloroethene	6.144	166	856M4	0.021 ppbV	
58) 1,1,1,2-tetrachloroethane	6.469	131	743M4	0.021 ppbV	
59) chlorobenzene	6.475	112	1529	0.022 ppbV #	1
60) ethylbenzene	6.677	91	2113	0.020 ppbV	96
61) m+p-xylene	6.770	91	3235	0.038 ppbV	97
62) bromoform	6.764	173	757M4	0.023 ppbV	
63) styrene	6.944	104	995M4	0.016 ppbV	
64) 1,1,2,2-tetrachloroethane	6.991	83	1340	0.021 ppbV	97
65) o-xylene	6.991	91	1527	0.019 ppbV	98
66) 1,2,3-Trichloropropane	7.055	75	973	0.022 ppbV	95
68) isopropylbenzene	7.299	105	2235	0.019 ppbV	95
69) Bromobenzene	7.311	77	1480M4	0.029 ppbV	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262180.D
Acq On : 14 Mar 2025 08:29 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.02
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

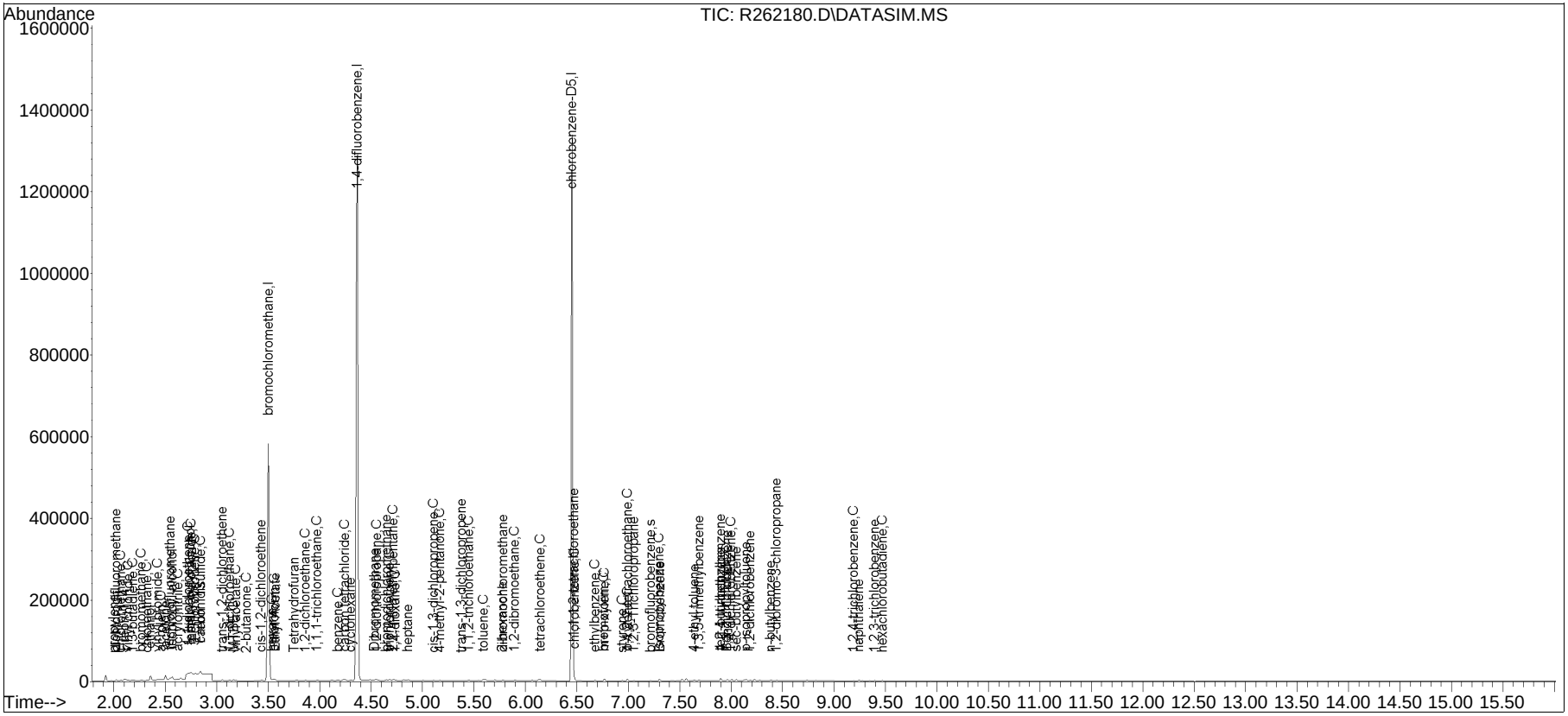
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.641	105	1661M4	0.020	ppbV	
71) 1,3,5-trimethylbenzene	7.689	105	1618M4	0.017	ppbV	
72) tert-butylbenzene	7.897	119	1800	0.017	ppbV	98
73) 1,2,4-trimethylbenzene	7.897	105	1567	0.016	ppbV	97
74) Benzyl Chloride	7.960	91	816	0.019	ppbV #	90
75) 1,3-dichlorobenzene	7.960	146	1320M4	0.017	ppbV	
76) 1,4-dichlorobenzene	8.000	146	1497M4	0.019	ppbV	
77) sec-butylbenzene	8.048	105	2425	0.016	ppbV	97
78) p-isopropyltoluene	8.144	119	2037	0.015	ppbV	99
79) 1,2-dichlorobenzene	8.184	146	1400	0.018	ppbV	95
80) n-butylbenzene	8.384	91	1962	0.016	ppbV	94
81) 1,2-dibromo-3-chloropr...	8.439	75	645M4	0.020	ppbV	
82) 1,2,4-trichlorobenzene	9.190	180	1211	0.018	ppbV #	94
83) naphthalene	9.242	128	3137	0.020	ppbV	96
84) 1,2,3-trichlorobenzene	9.394	180	1481	0.018	ppbV	94
85) hexachlorobutadiene	9.470	225	1021	0.018	ppbV #	89

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262180.D
Acq On : 14 Mar 2025 08:29 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.02
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

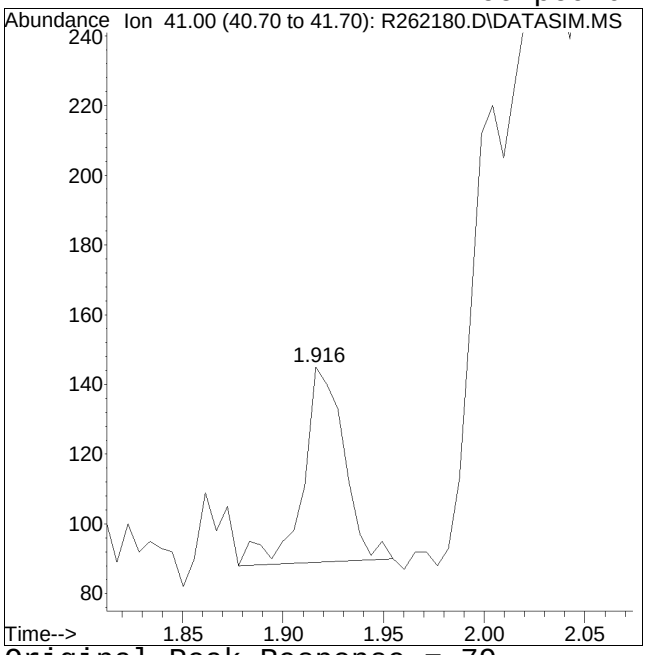


Manual Integration Report

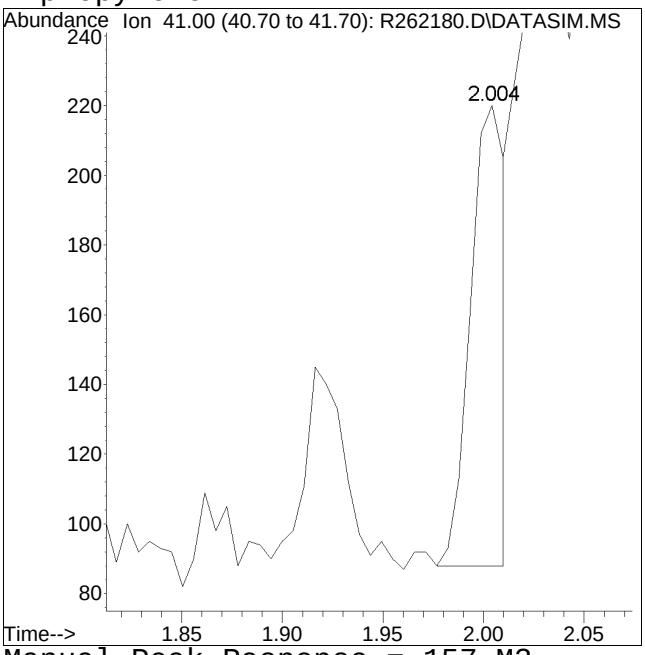
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262180.D
Date Inj'd : 3/14/2025 8:29 pm
Sample : ITO15-SIMSTD0.02

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:17 pm

Compound #2: propylene



Original Peak Response = 79



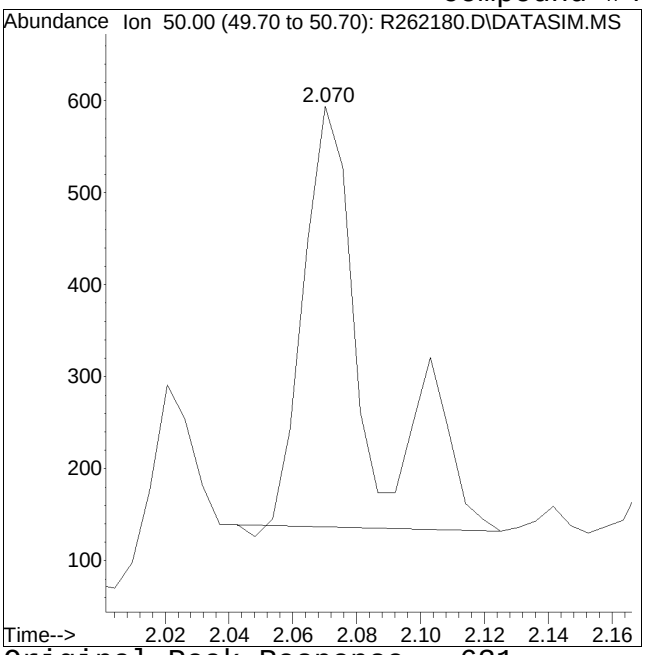
Manual Peak Response = 157 M3

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.

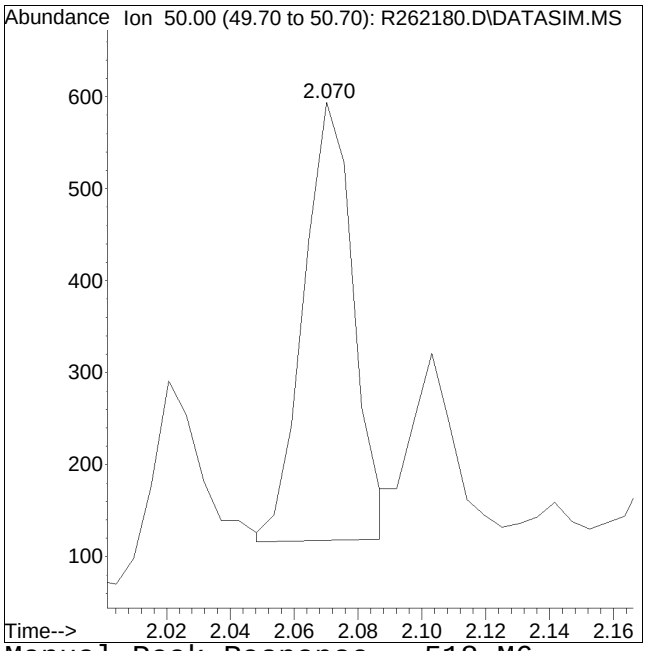
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #4: chloromethane



Original Peak Response = 631



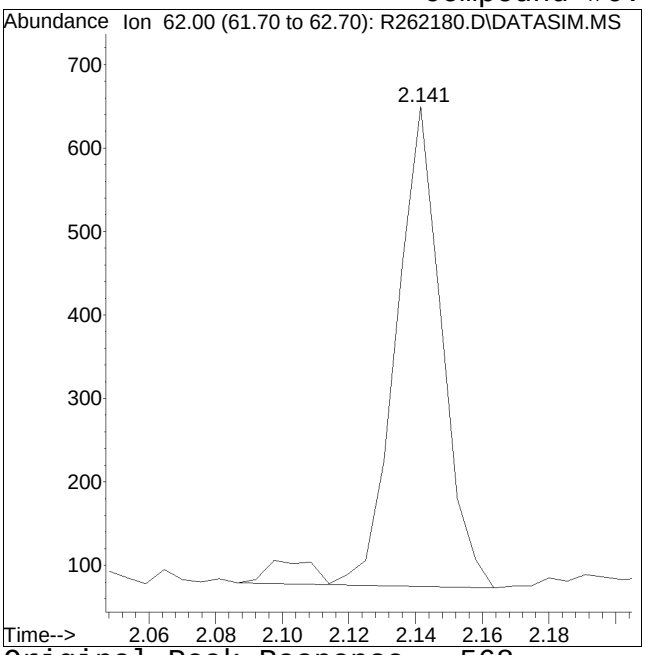
Manual Peak Response = 518 M6

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

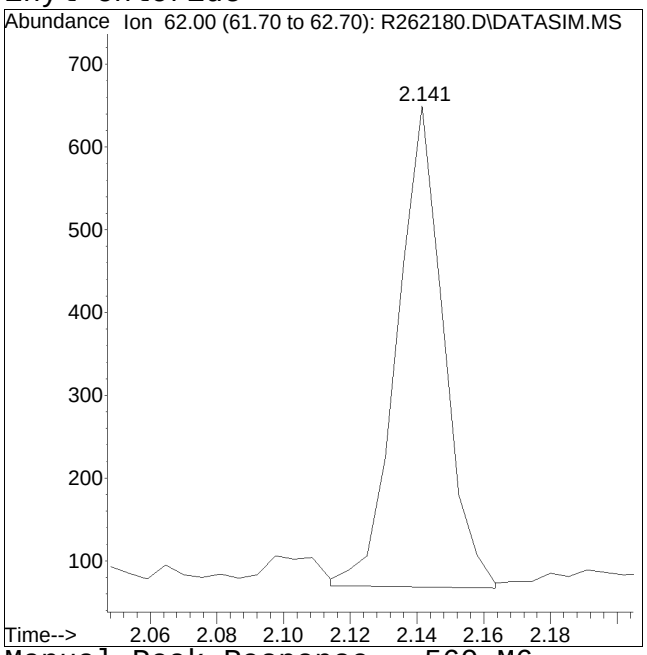
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #6: vinyl chloride



Original Peak Response = 568



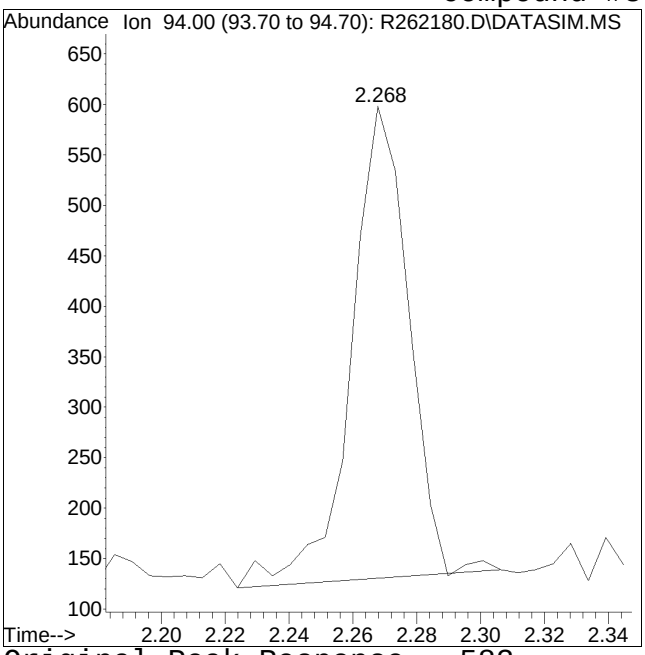
Manual Peak Response = 560 M6

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

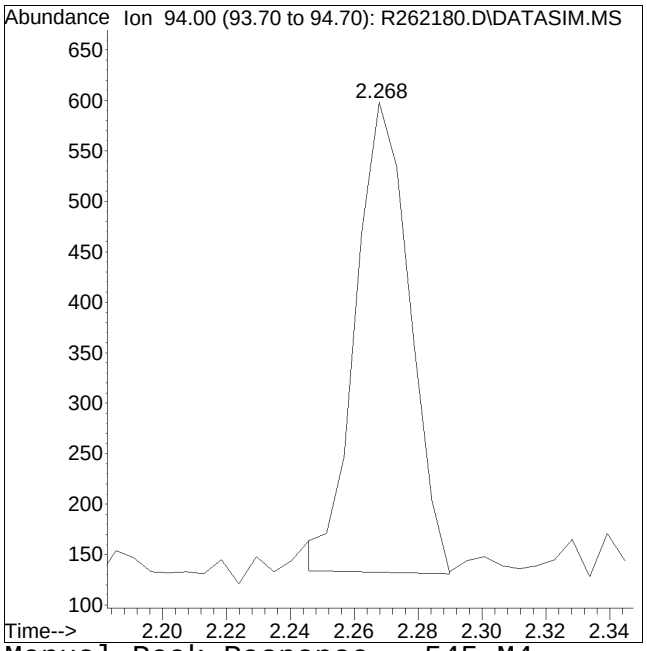
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #8: bromomethane



Original Peak Response = 583



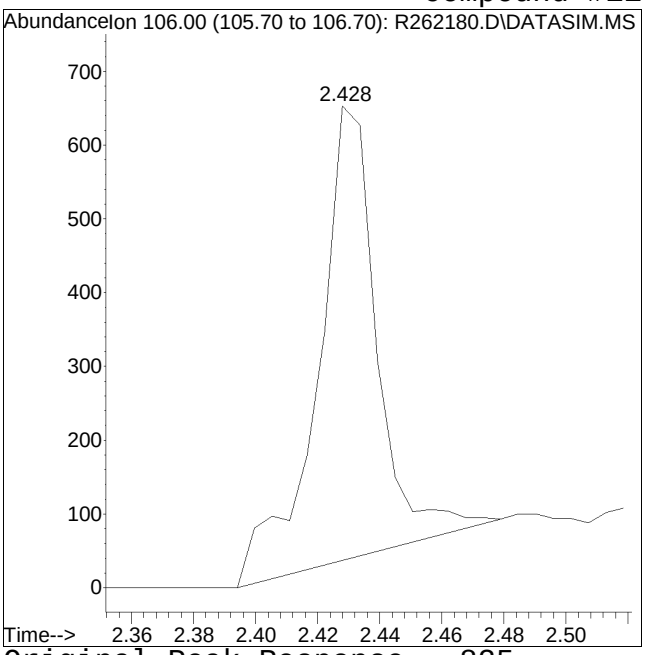
Manual Peak Response = 545 M4

M4 = Poor automated baseline construction.

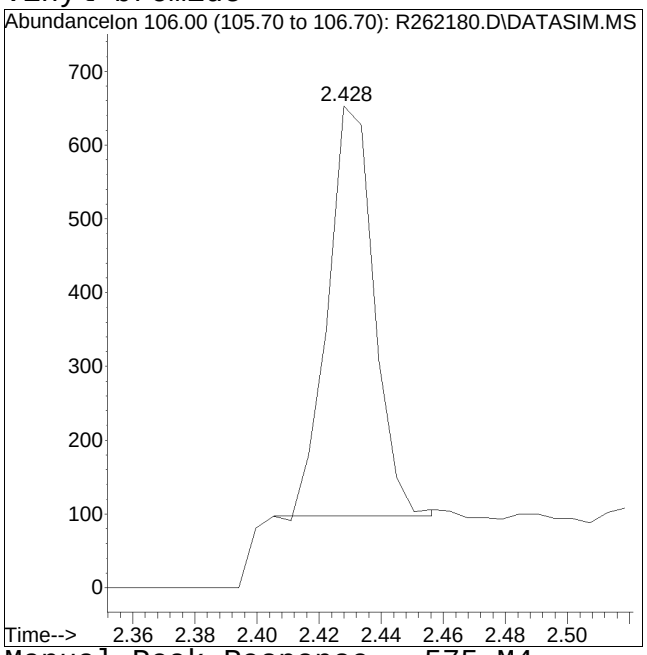
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #11: vinyl bromide



Original Peak Response = 825



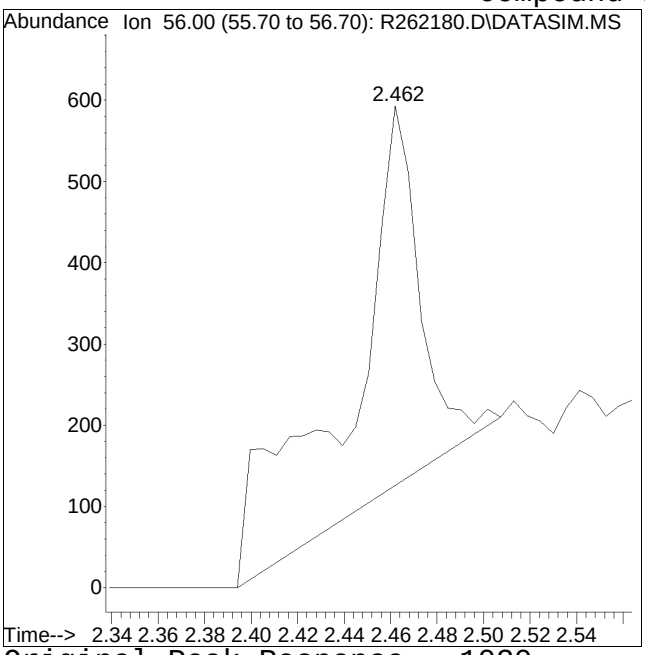
Manual Peak Response = 575 M4

M4 = Poor automated baseline construction.

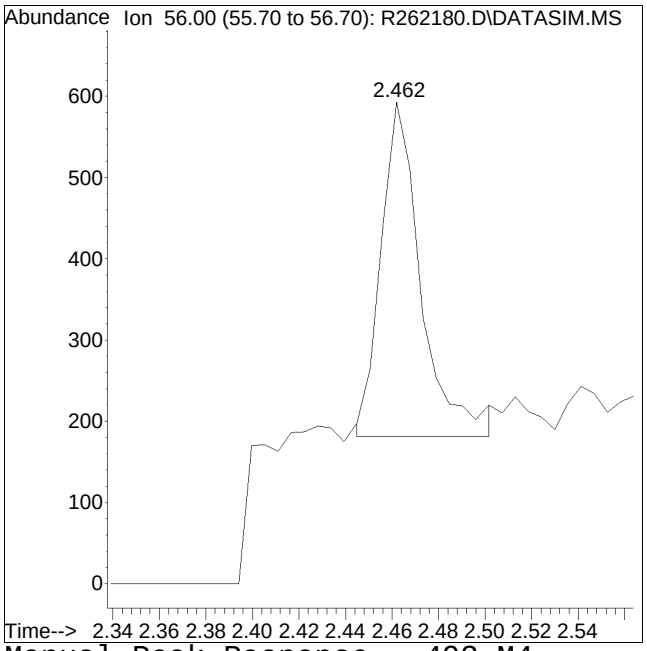
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #12: acrolein



Original Peak Response = 1020



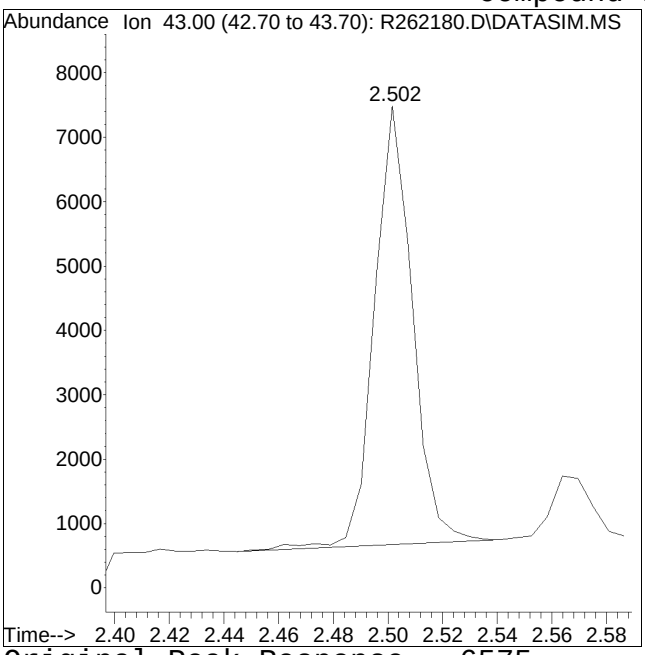
Manual Peak Response = 493 M4

M4 = Poor automated baseline construction.

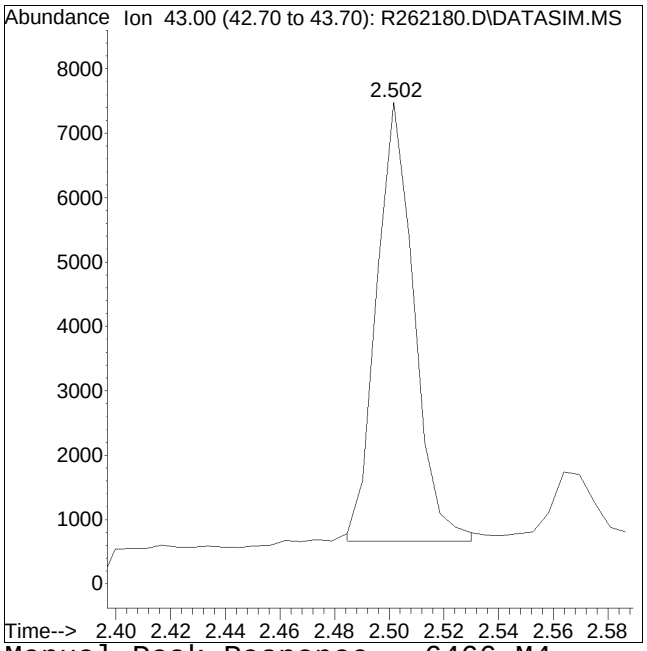
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #13: acetone



Original Peak Response = 6575



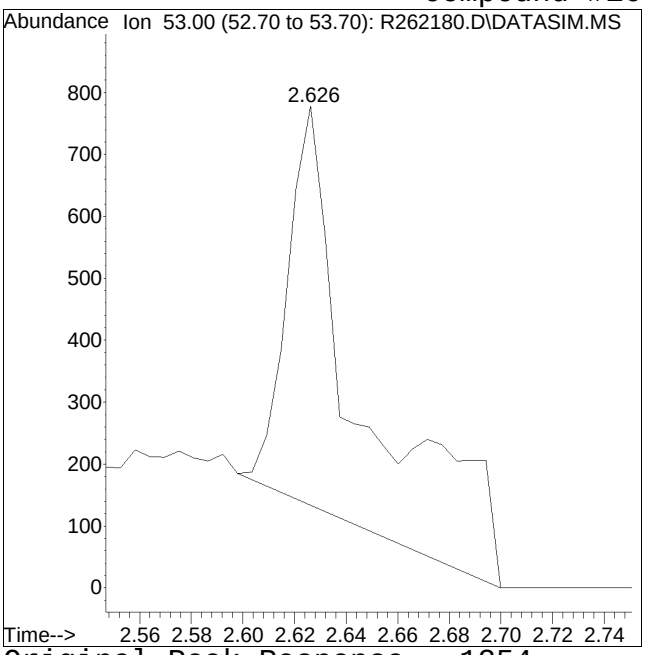
Manual Peak Response = 6466 M4

M4 = Poor automated baseline construction.

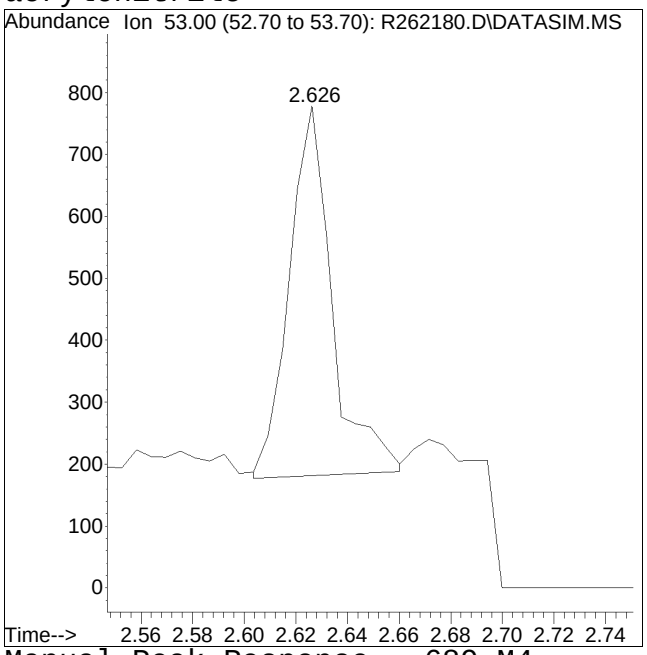
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #16: acrylonitrile



Original Peak Response = 1254



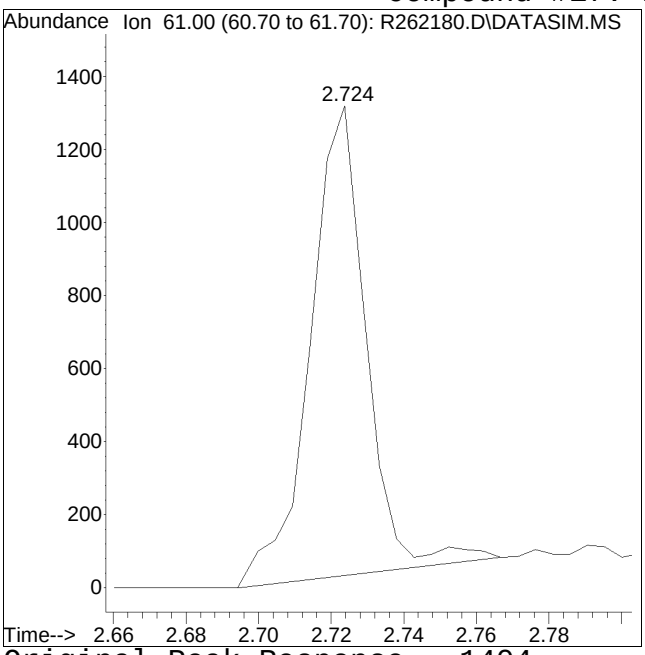
Manual Peak Response = 689 M4

M4 = Poor automated baseline construction.

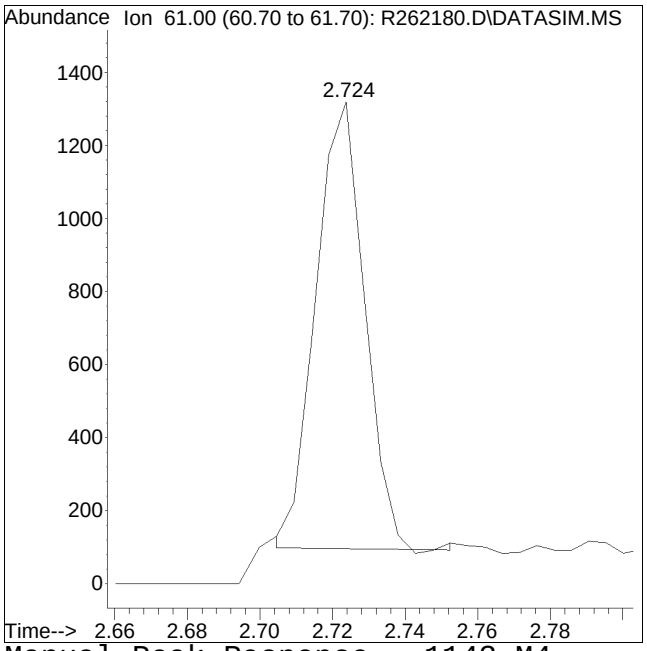
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 1404



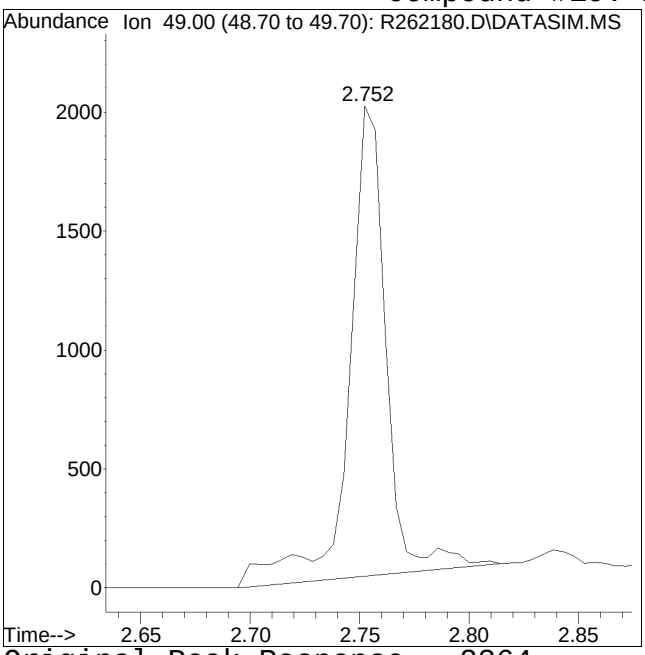
Manual Peak Response = 1143 M4

M4 = Poor automated baseline construction.

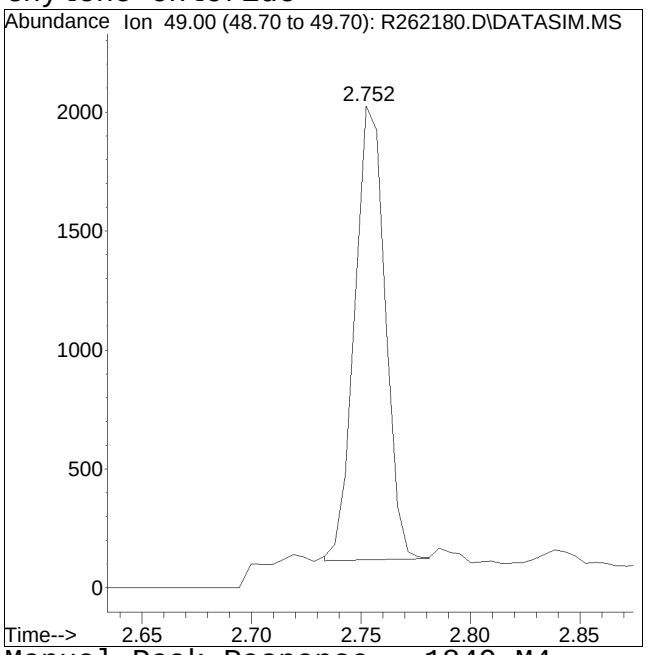
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #19: methylene chloride



Original Peak Response = 2364



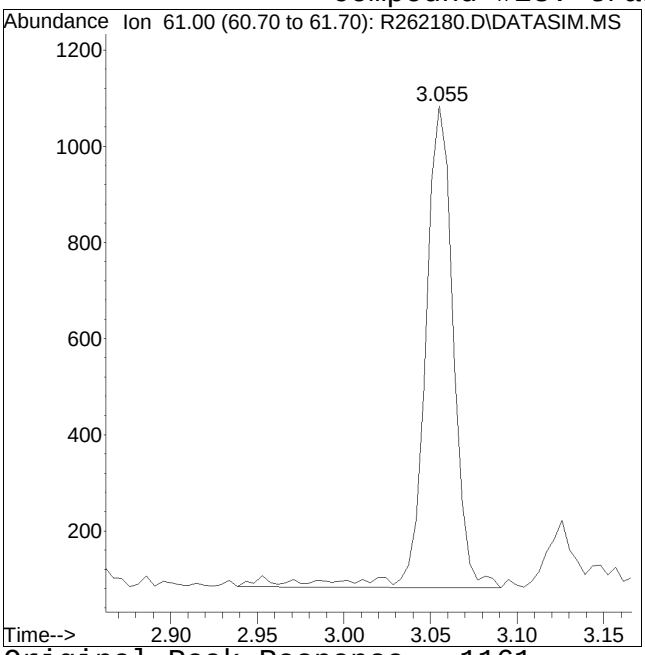
Manual Peak Response = 1849 M4

M4 = Poor automated baseline construction.

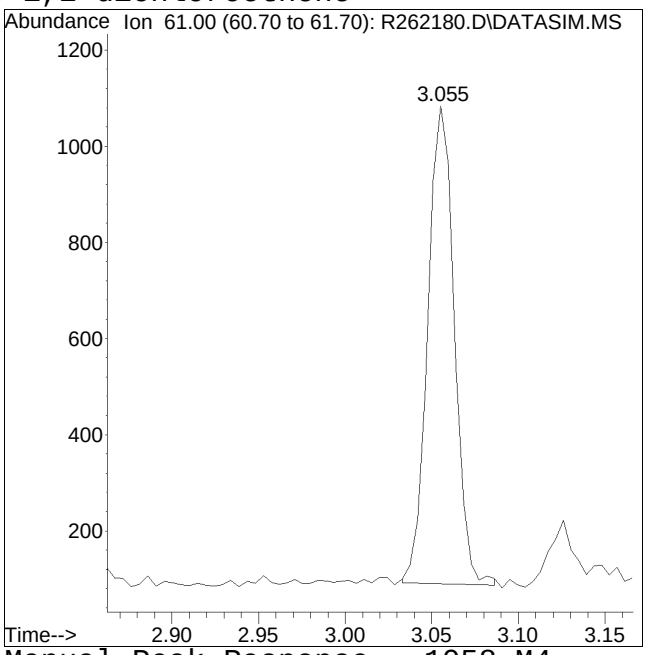
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #23: trans-1,2-dichloroethene



Original Peak Response = 1161



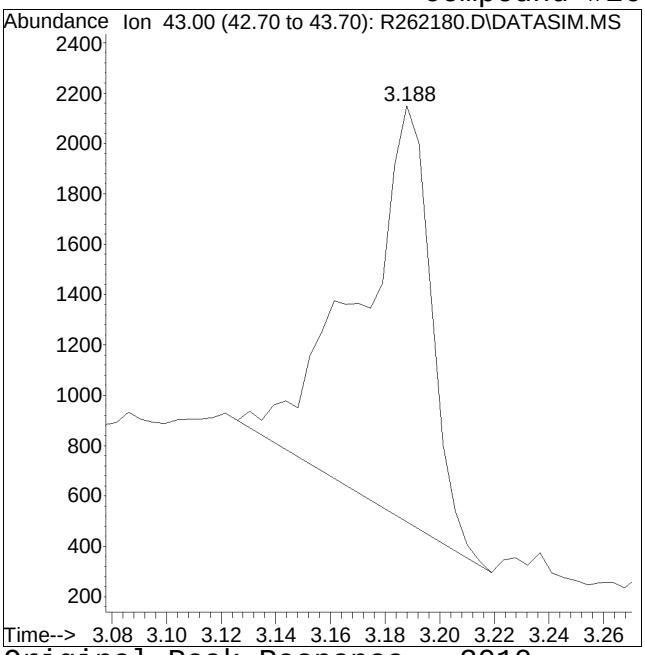
Manual Peak Response = 1058 M4

M4 = Poor automated baseline construction.

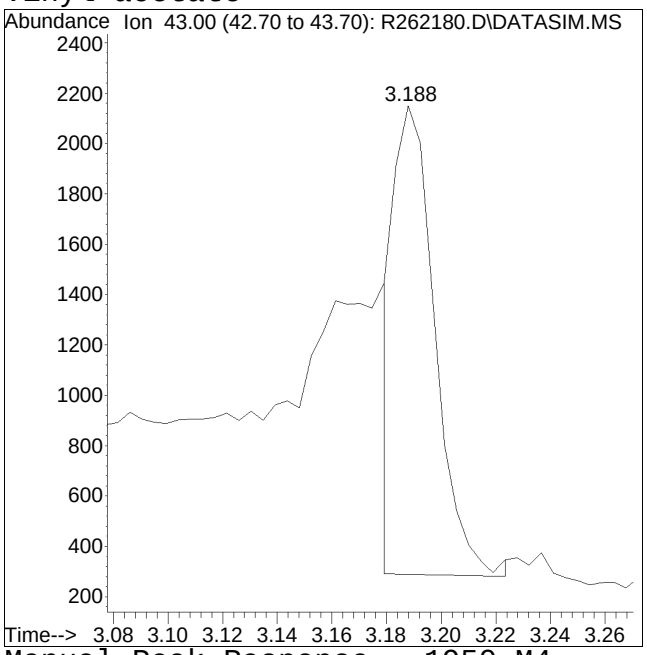
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #26: vinyl acetate



Original Peak Response = 3010



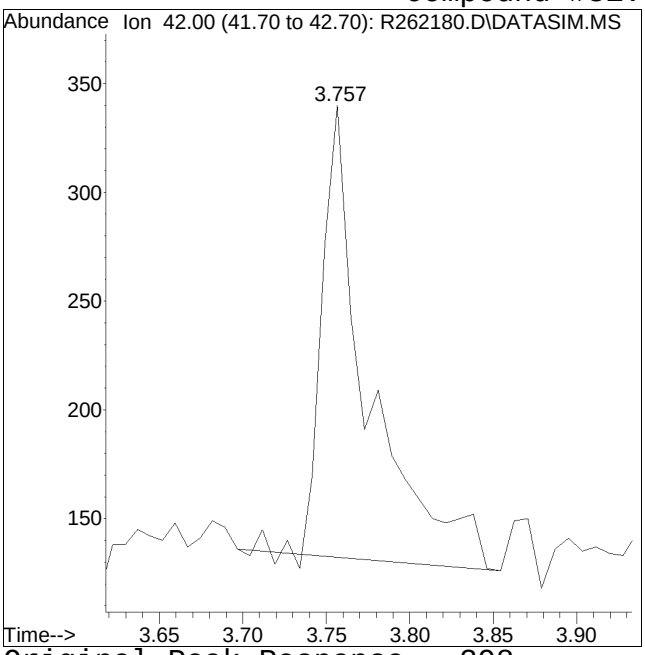
Manual Peak Response = 1950 M4

M4 = Poor automated baseline construction.

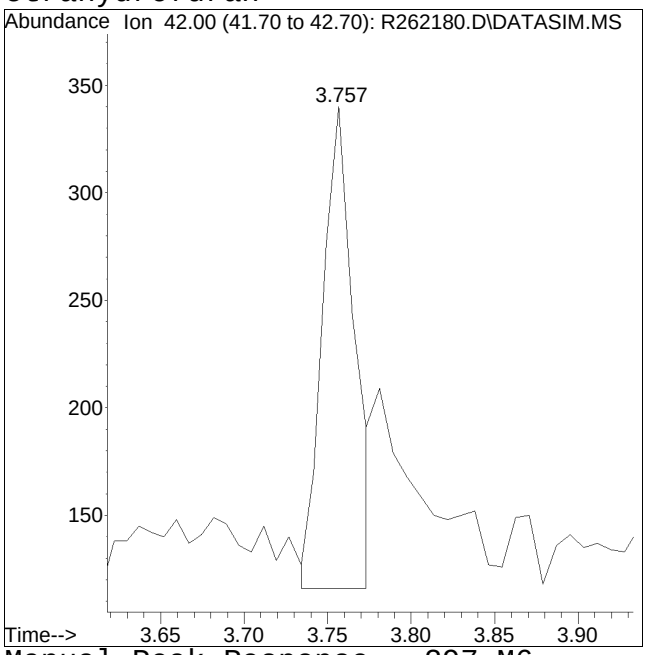
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 398



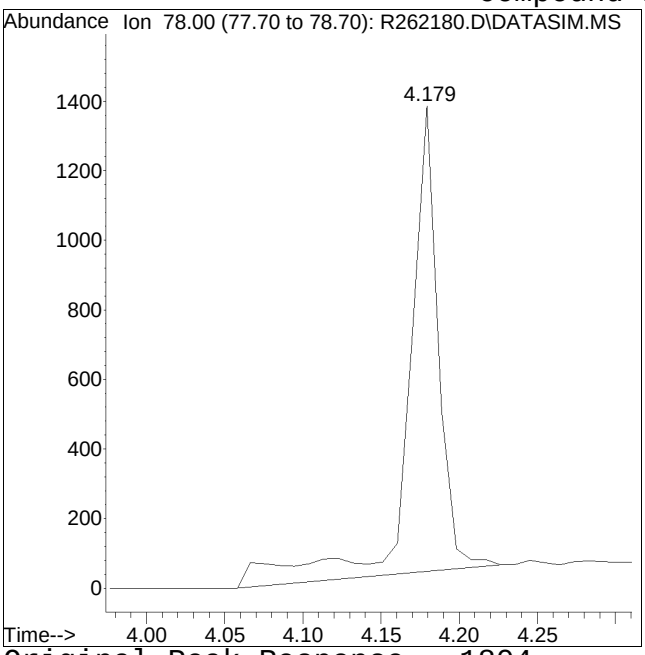
Manual Peak Response = 297 M6

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

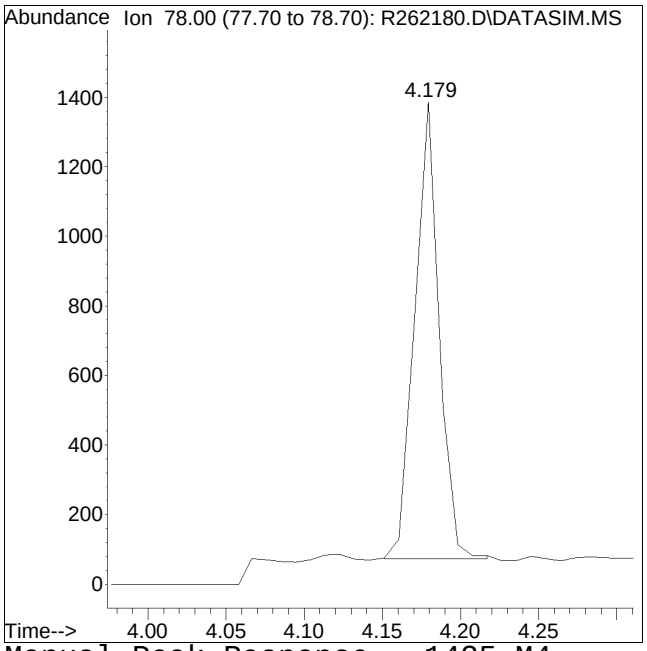
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #37: benzene



Original Peak Response = 1804



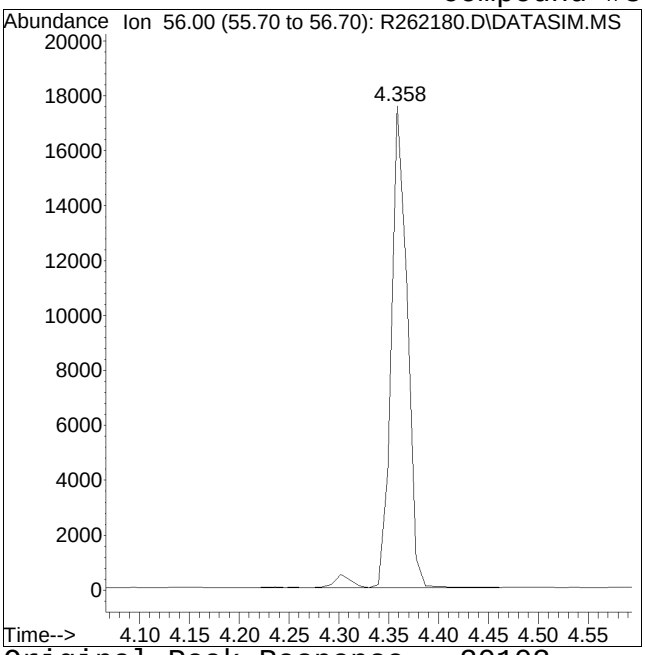
Manual Peak Response = 1425 M4

M4 = Poor automated baseline construction.

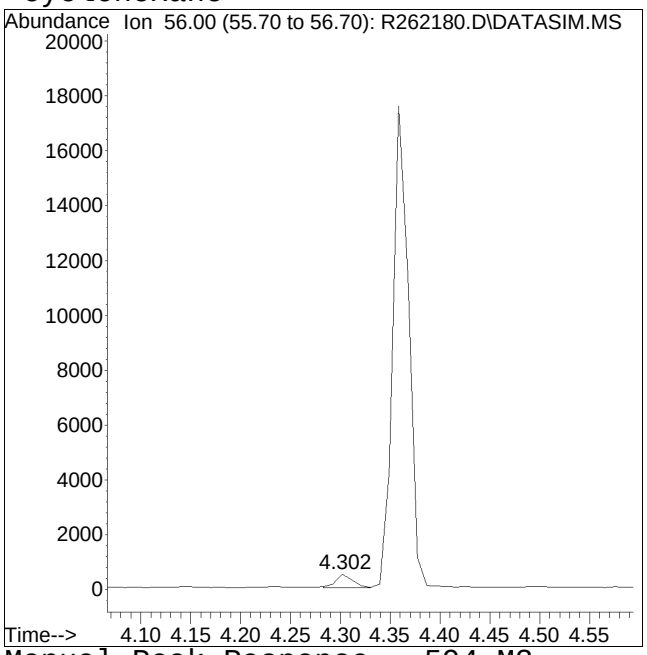
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #39: cyclohexane



Original Peak Response = 20103



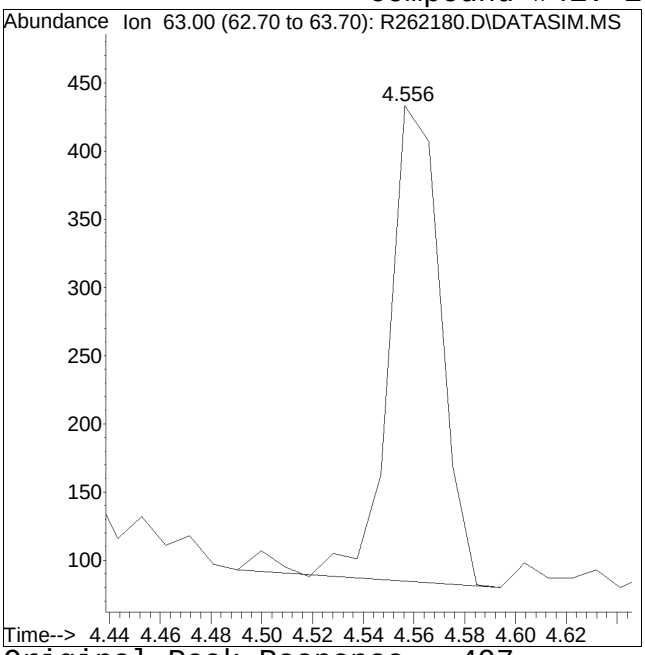
Manual Peak Response = 594 M3

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.

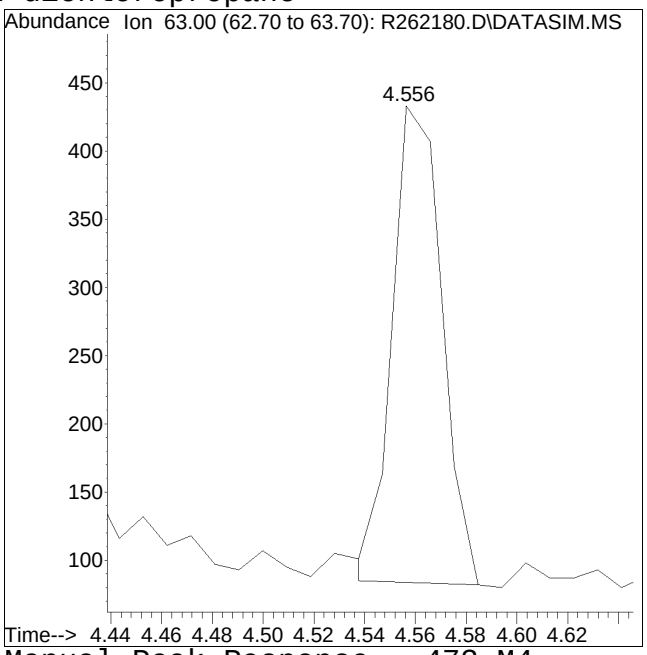
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #41: 1,2-dichloropropane



Original Peak Response = 497



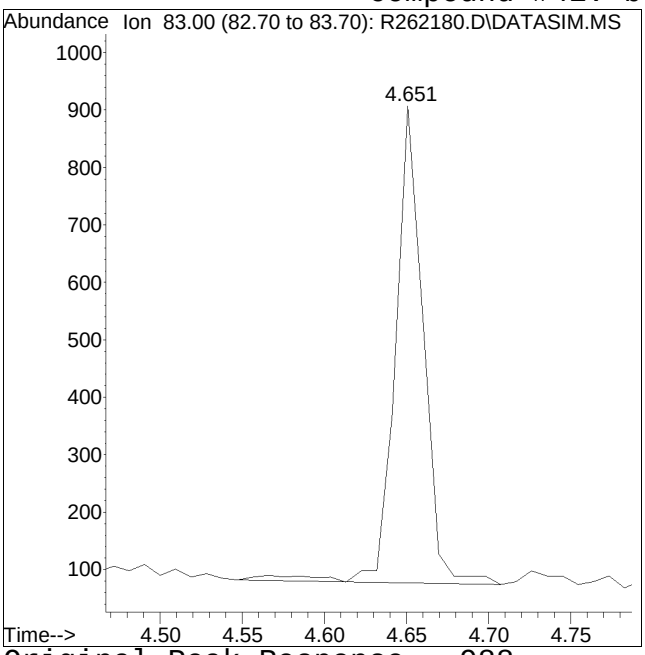
Manual Peak Response = 473 M4

M4 = Poor automated baseline construction.

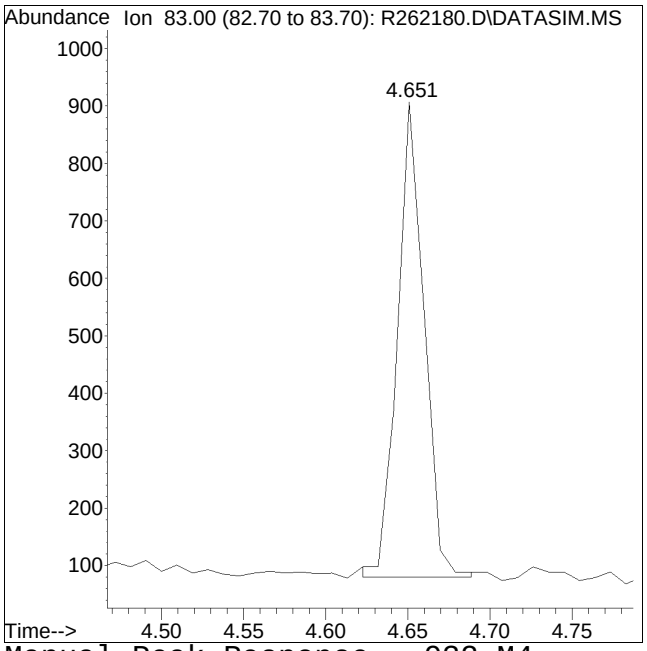
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #42: bromodichloromethane



Original Peak Response = 988



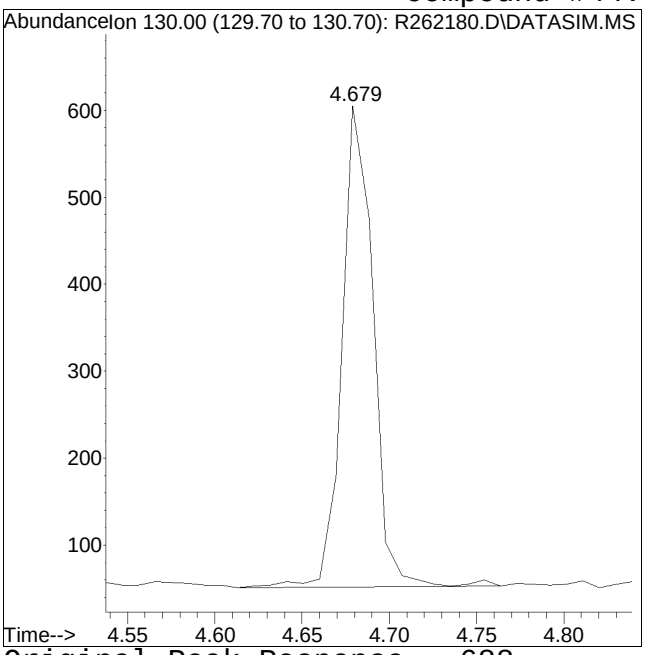
Manual Peak Response = 932 M4

M4 = Poor automated baseline construction.

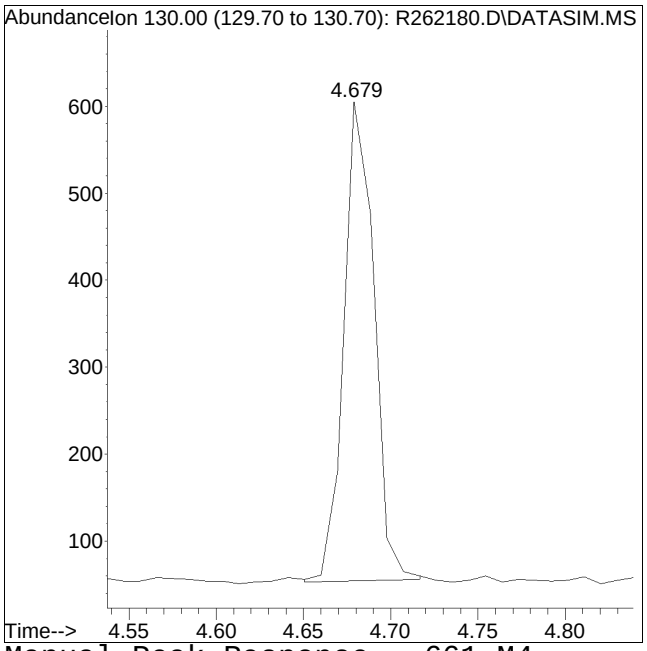
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #44: trichloroethene



Original Peak Response = 688



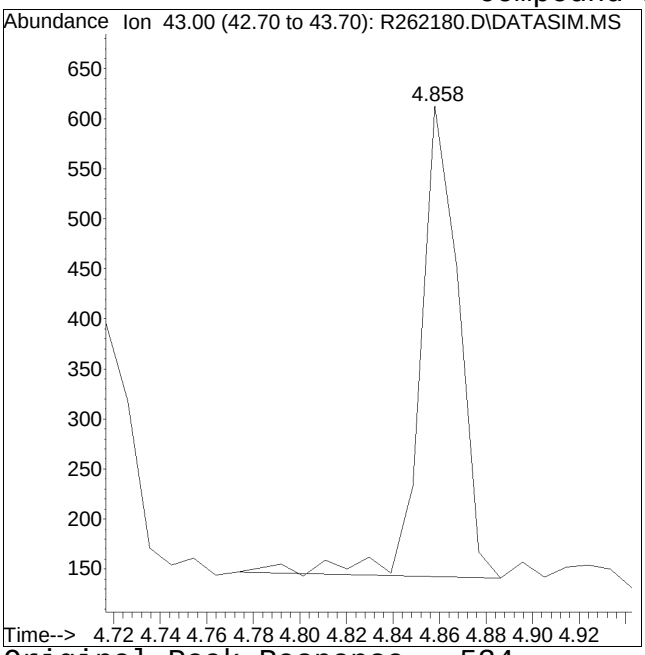
Manual Peak Response = 661 M4

M4 = Poor automated baseline construction.

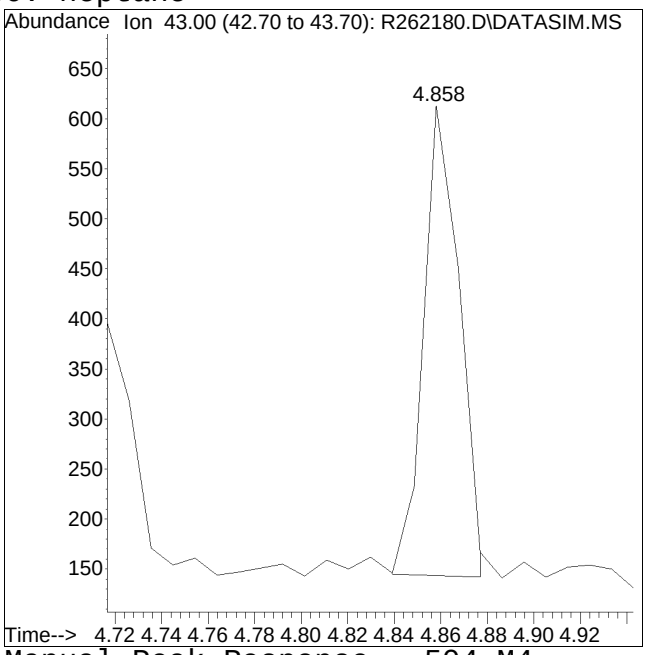
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #46: heptane



Original Peak Response = 534



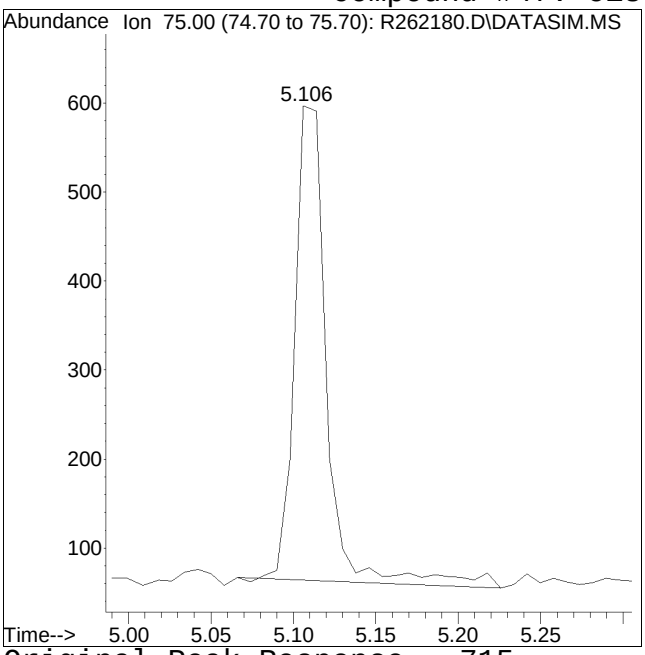
Manual Peak Response = 504 M4

M4 = Poor automated baseline construction.

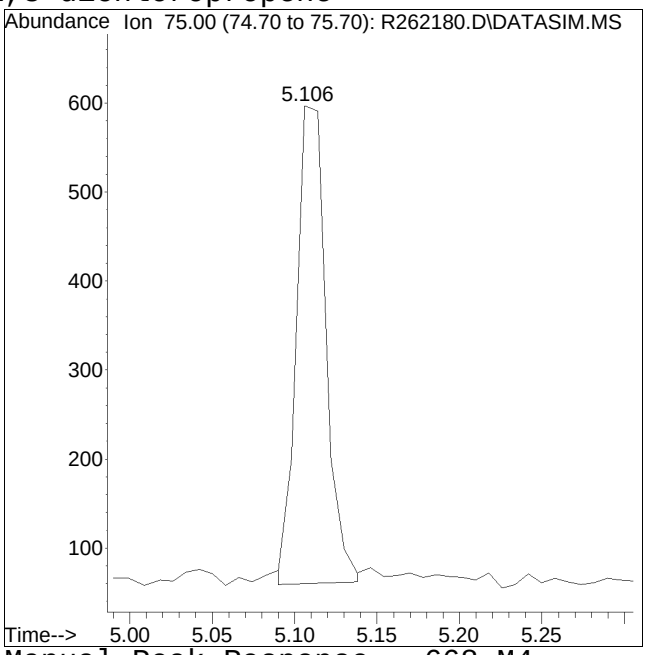
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 715



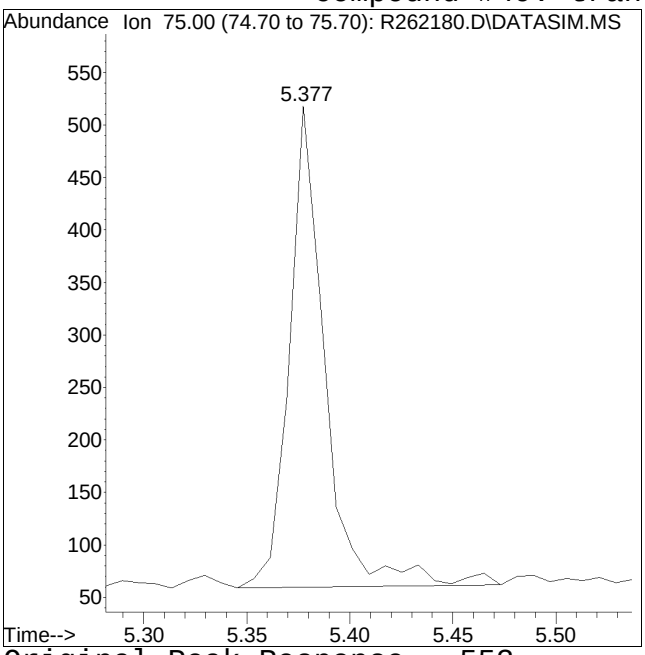
Manual Peak Response = 668 M4

M4 = Poor automated baseline construction.

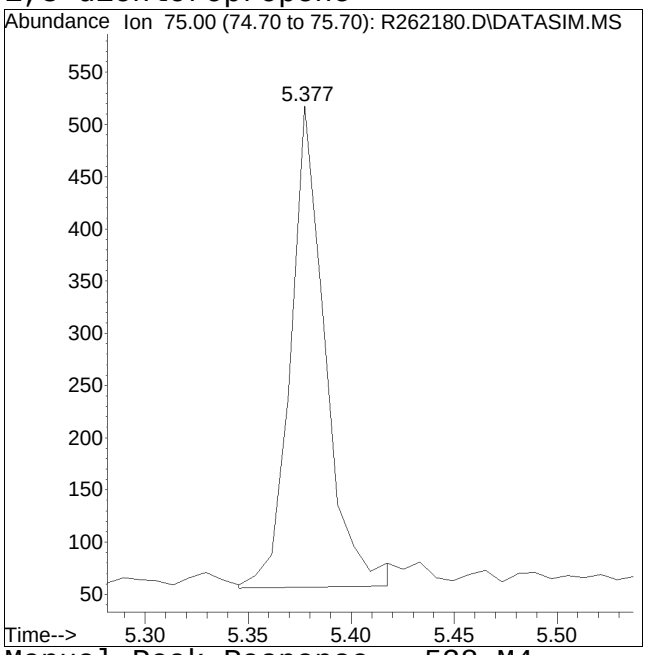
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 553



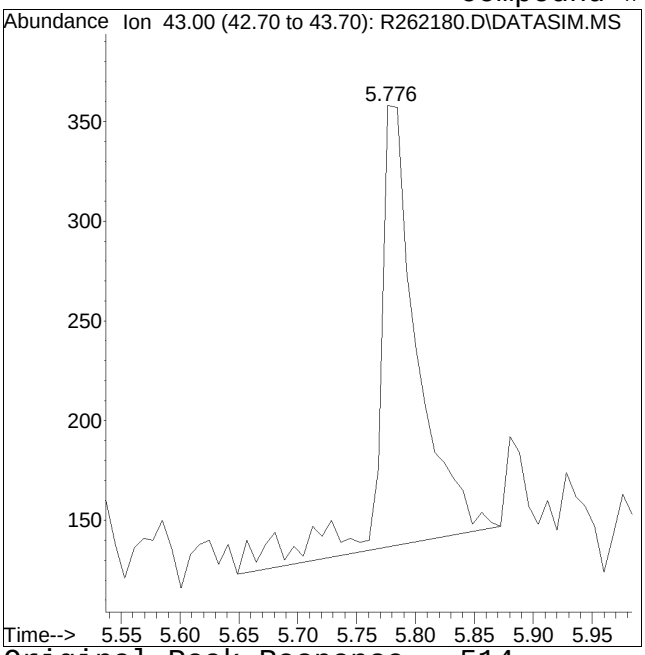
Manual Peak Response = 538 M4

M4 = Poor automated baseline construction.

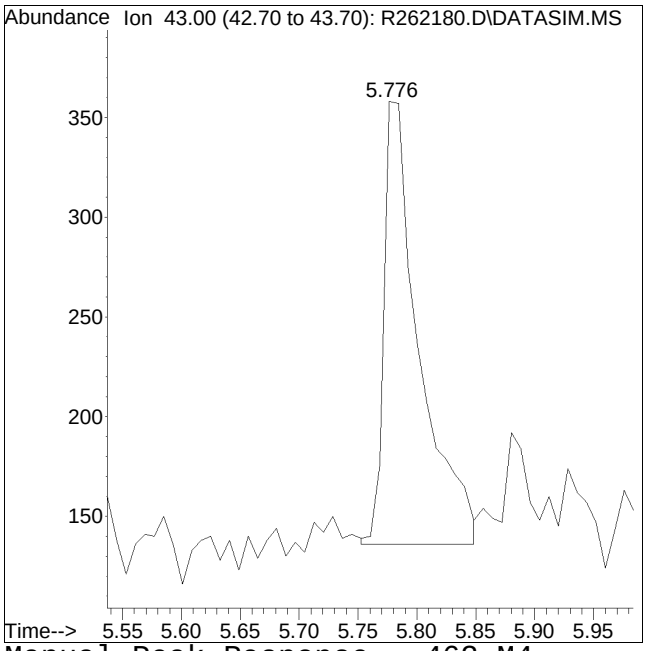
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #54: 2-hexanone



Original Peak Response = 514



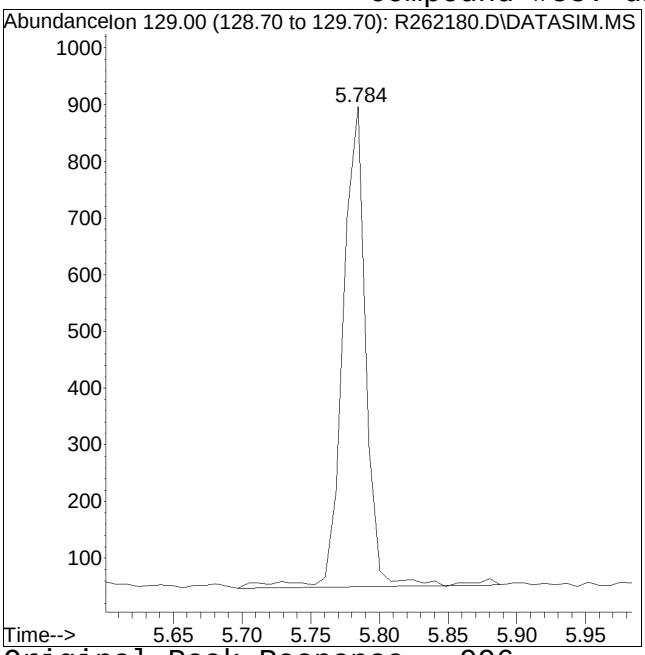
Manual Peak Response = 462 M4

M4 = Poor automated baseline construction.

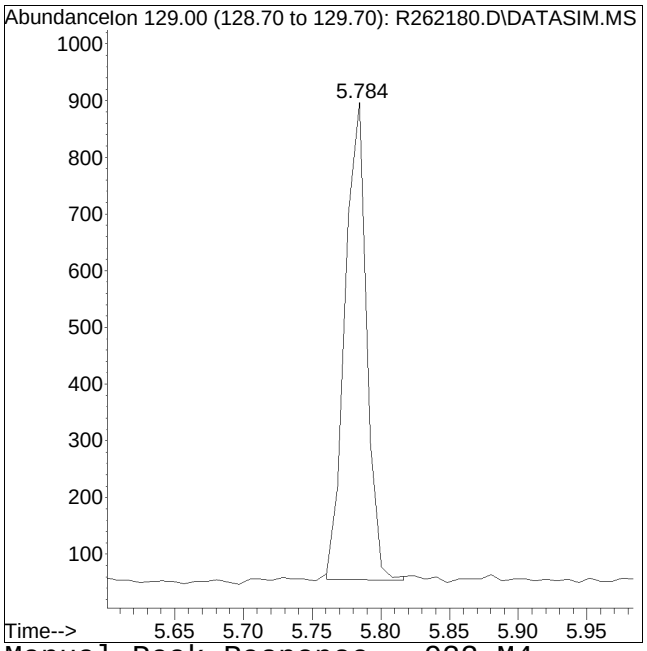
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #55: dibromochloromethane



Original Peak Response = 996



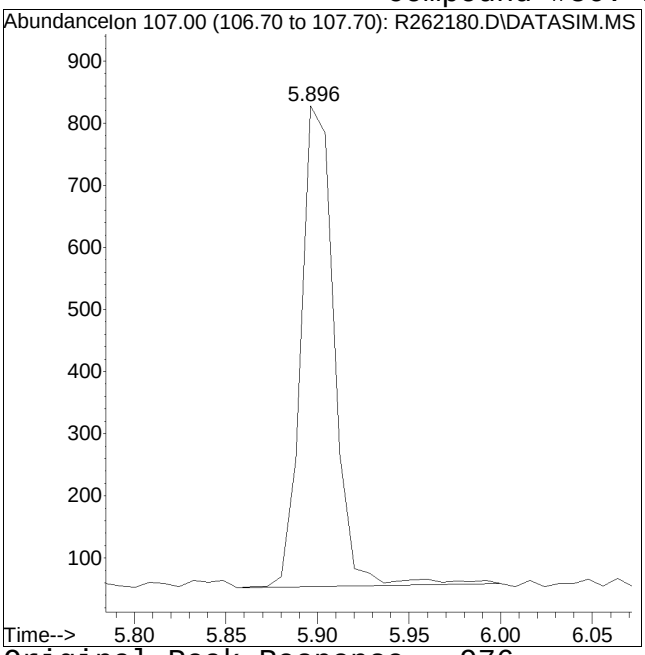
Manual Peak Response = 922 M4

M4 = Poor automated baseline construction.

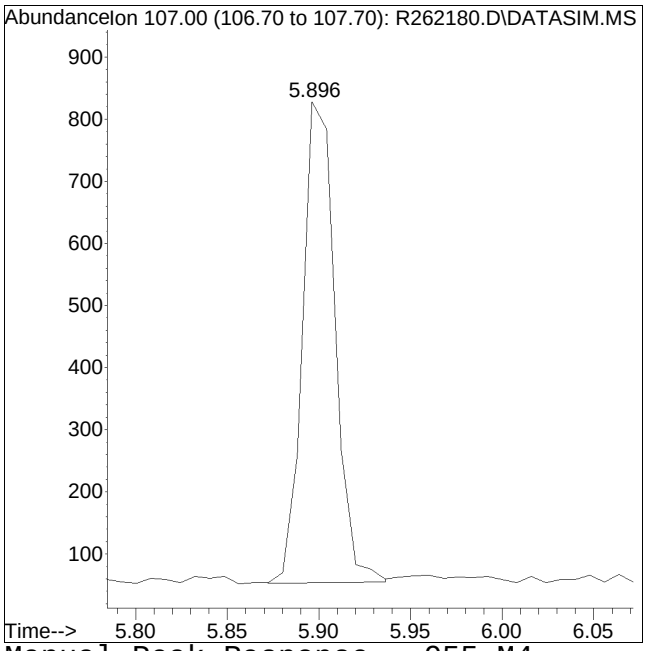
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #56: 1,2-dibromoethane



Original Peak Response = 976



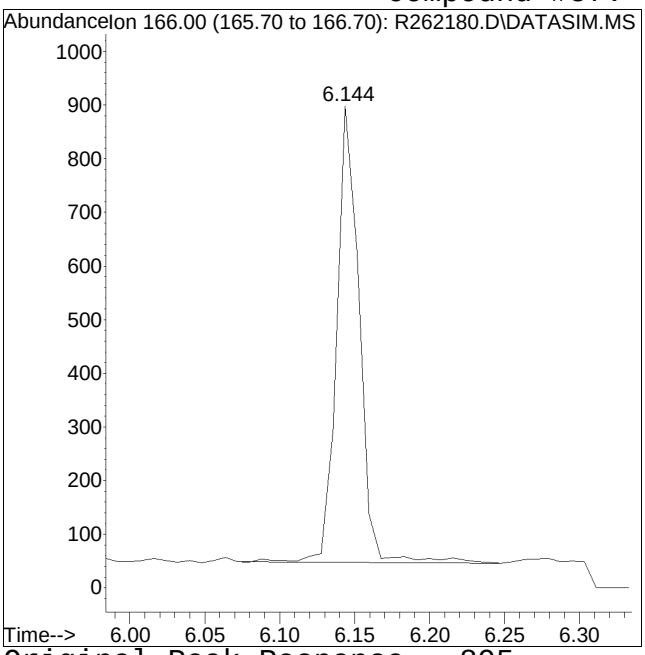
Manual Peak Response = 955 M4

M4 = Poor automated baseline construction.

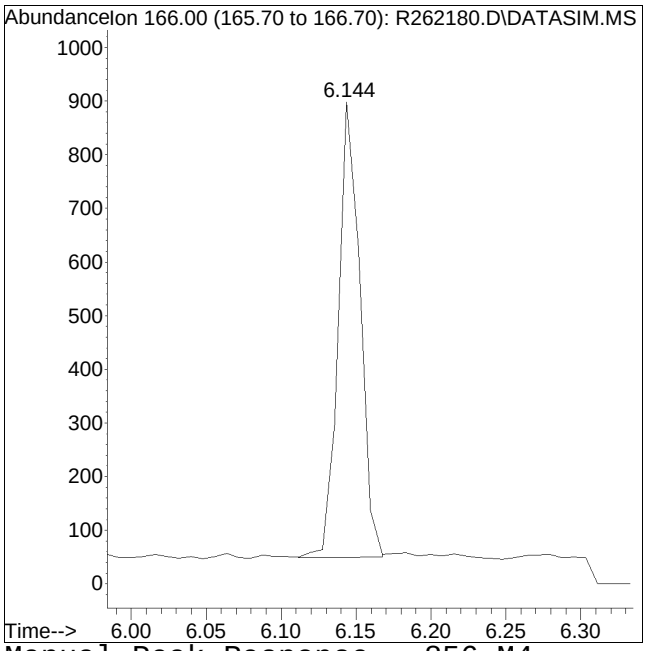
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #57: tetrachloroethene



Original Peak Response = 895



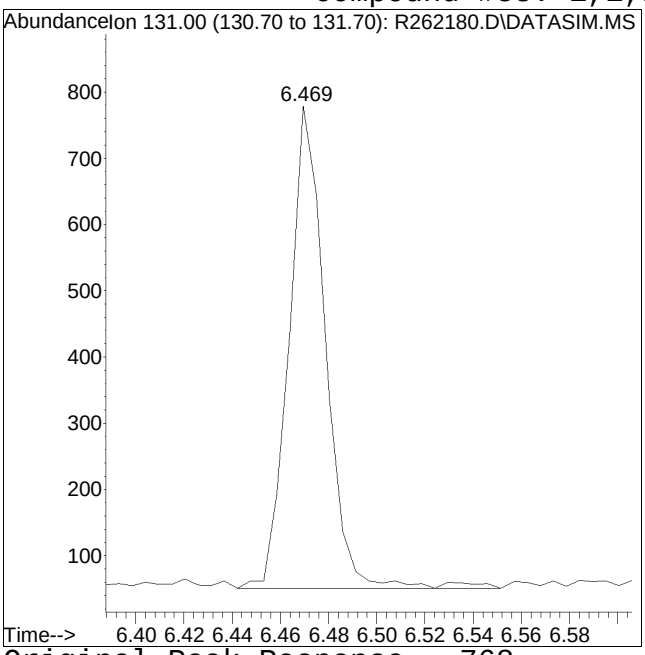
Manual Peak Response = 856 M4

M4 = Poor automated baseline construction.

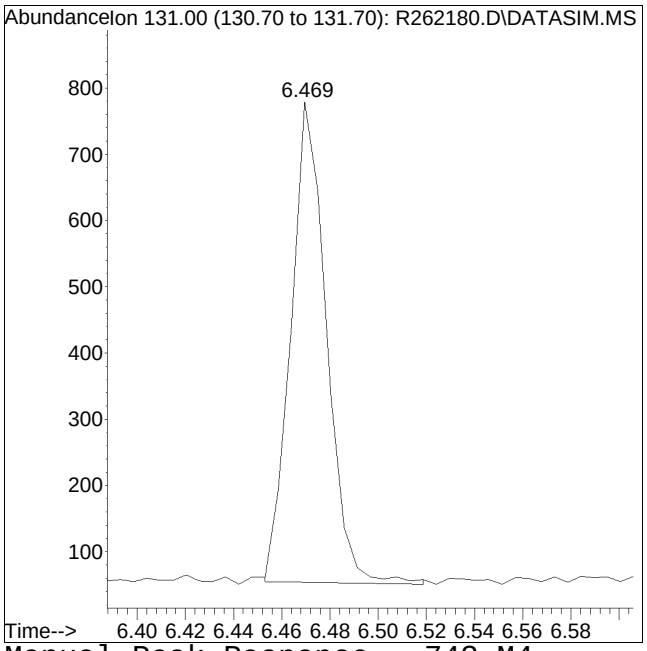
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response = 768



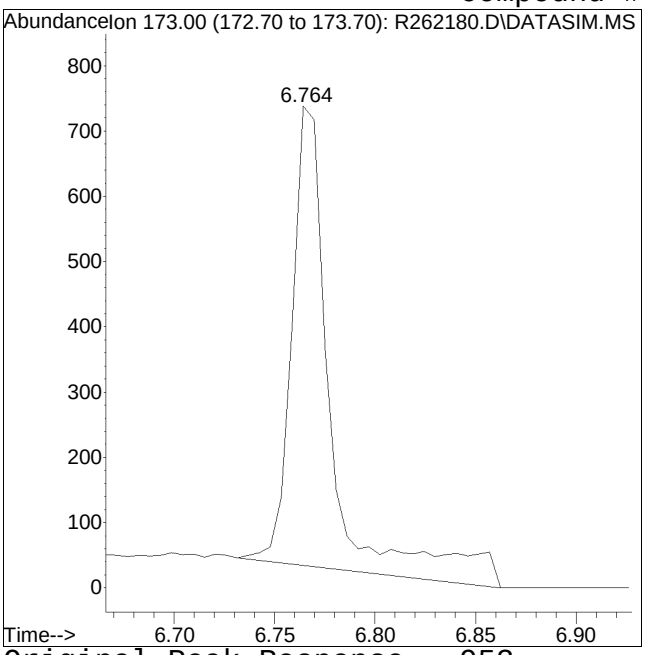
Manual Peak Response = 743 M4

M4 = Poor automated baseline construction.

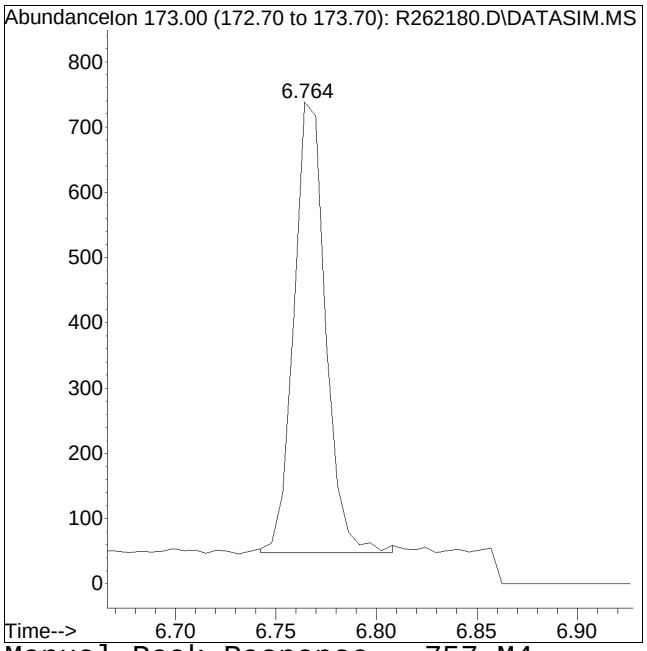
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #62: bromoform



Original Peak Response = 953



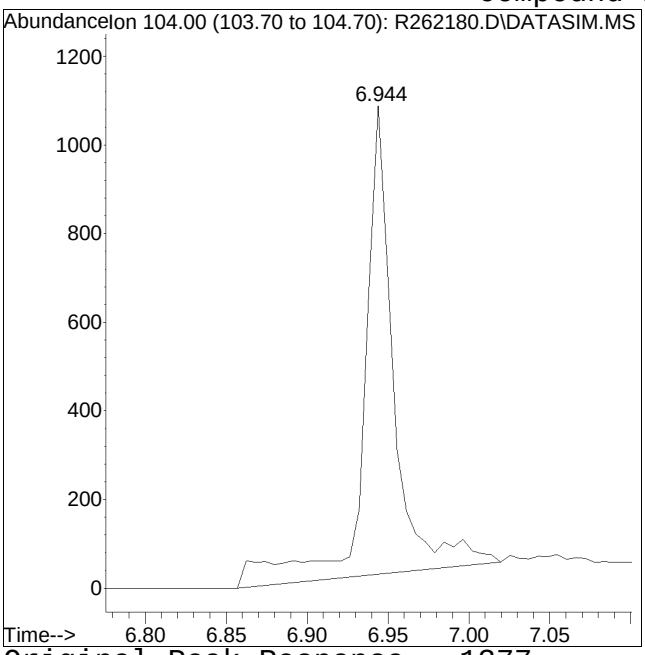
Manual Peak Response = 757 M4

M4 = Poor automated baseline construction.

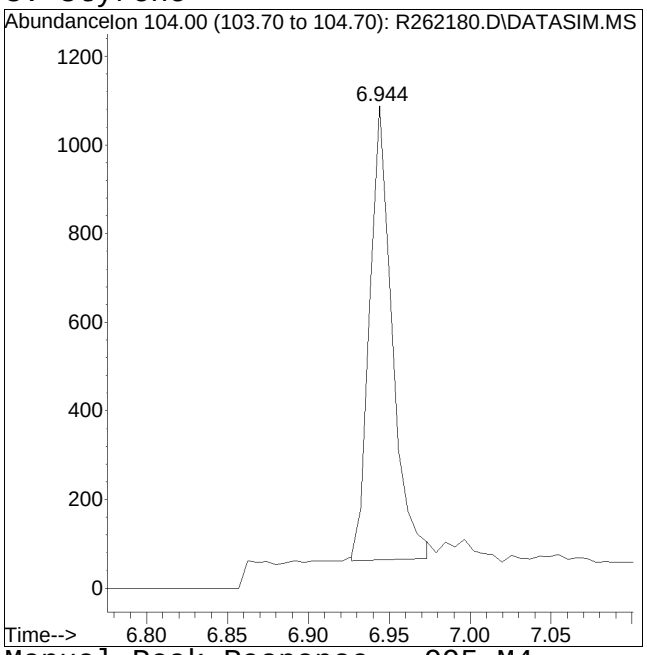
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #63: styrene



Original Peak Response = 1377



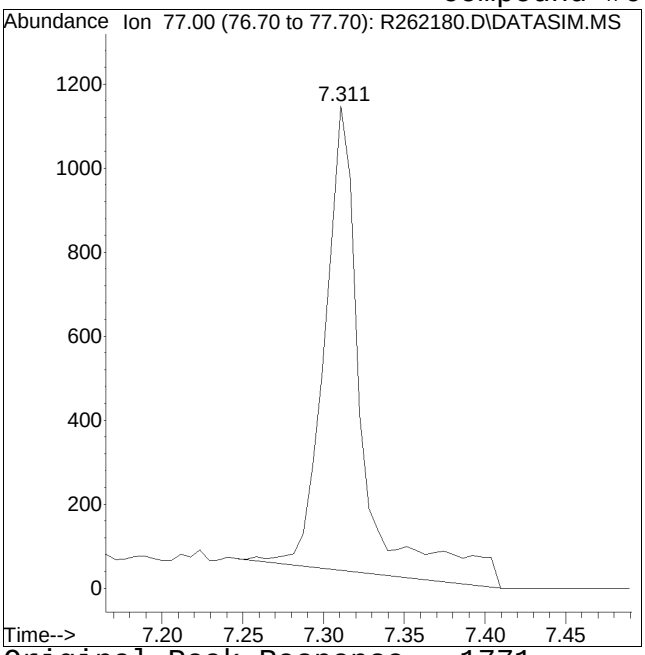
Manual Peak Response = 995 M4

M4 = Poor automated baseline construction.

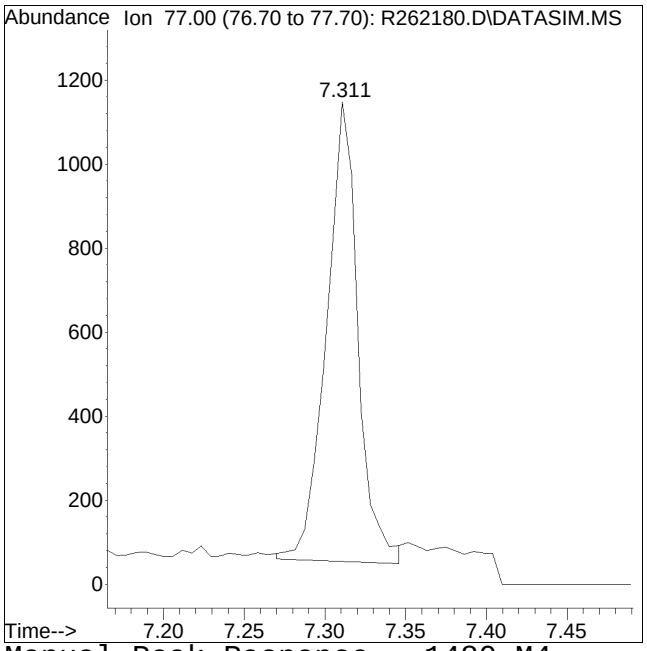
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #69: Bromobenzene



Original Peak Response = 1771



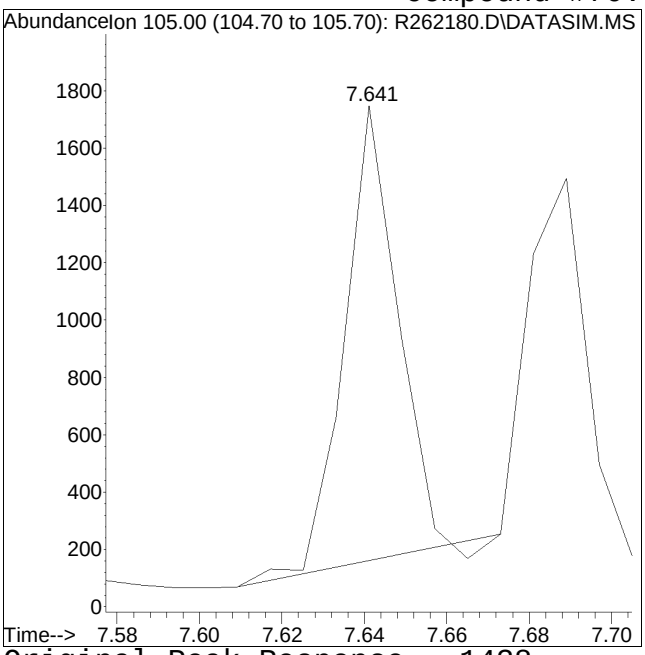
Manual Peak Response = 1480 M4

M4 = Poor automated baseline construction.

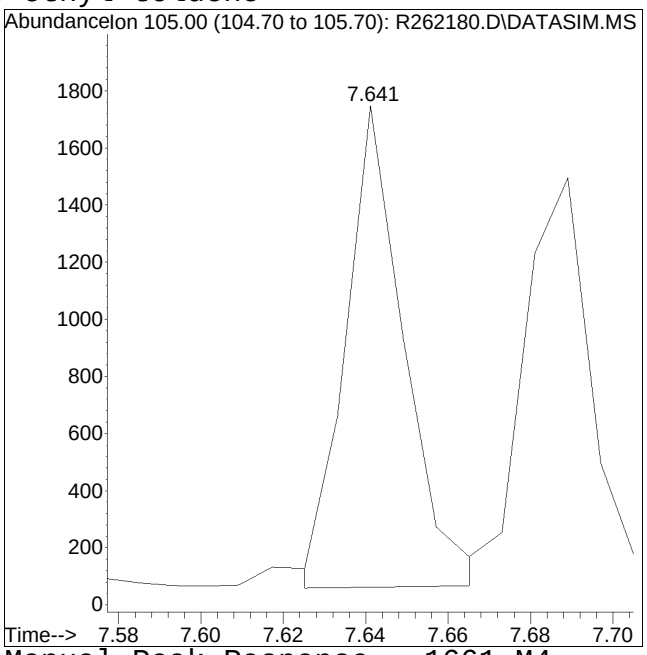
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1438



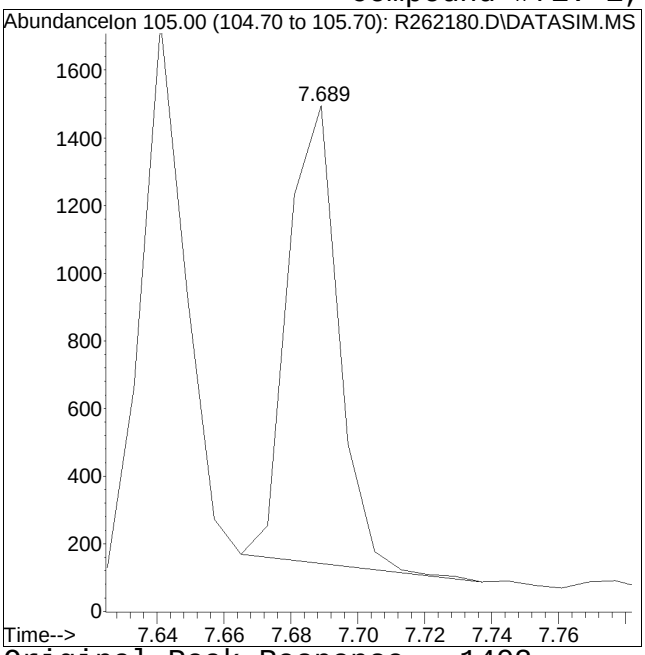
Manual Peak Response = 1661 M4

M4 = Poor automated baseline construction.

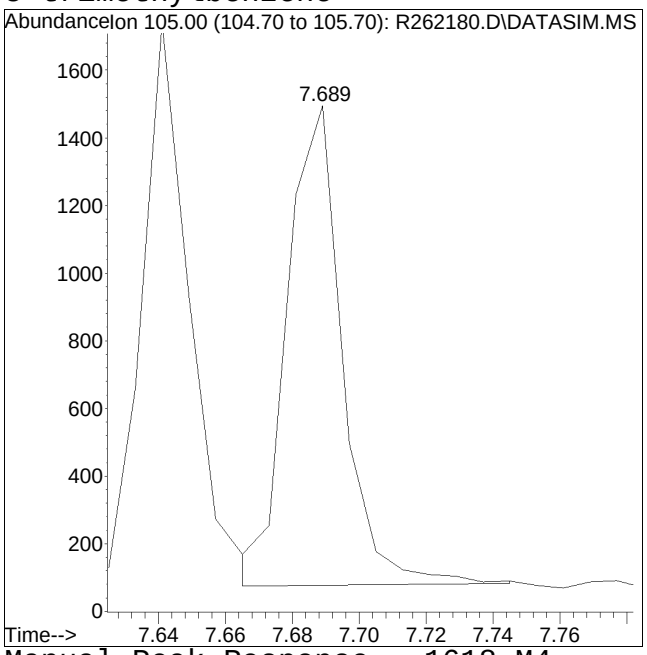
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 1402



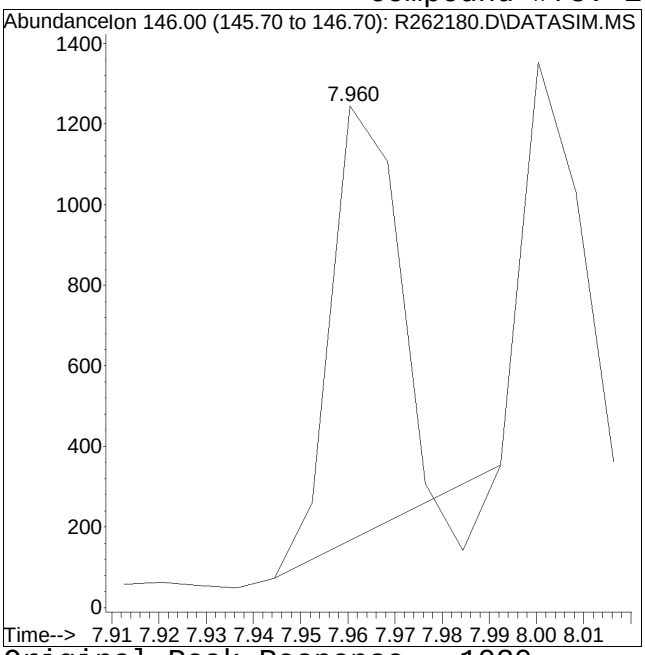
Manual Peak Response = 1618 M4

M4 = Poor automated baseline construction.

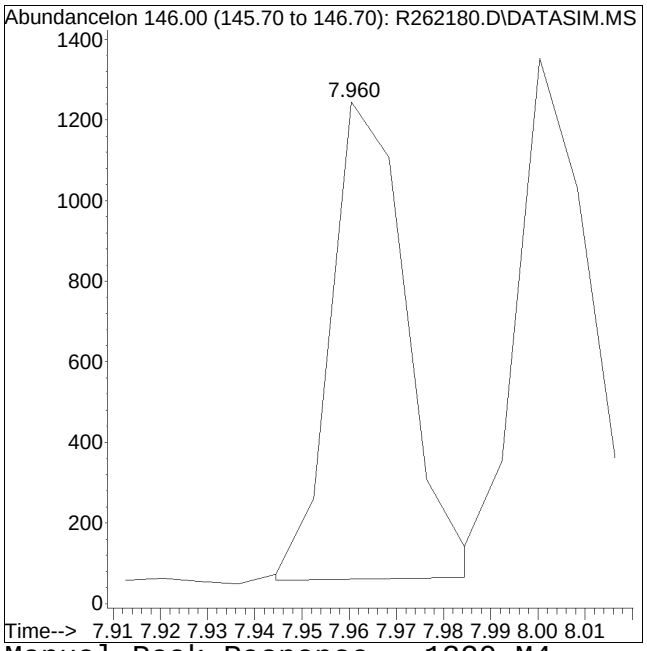
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 1030



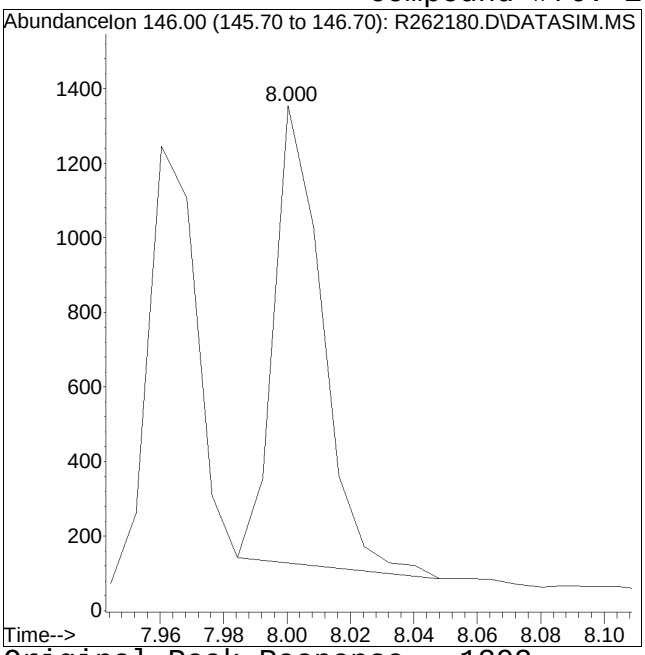
Manual Peak Response = 1320 M4

M4 = Poor automated baseline construction.

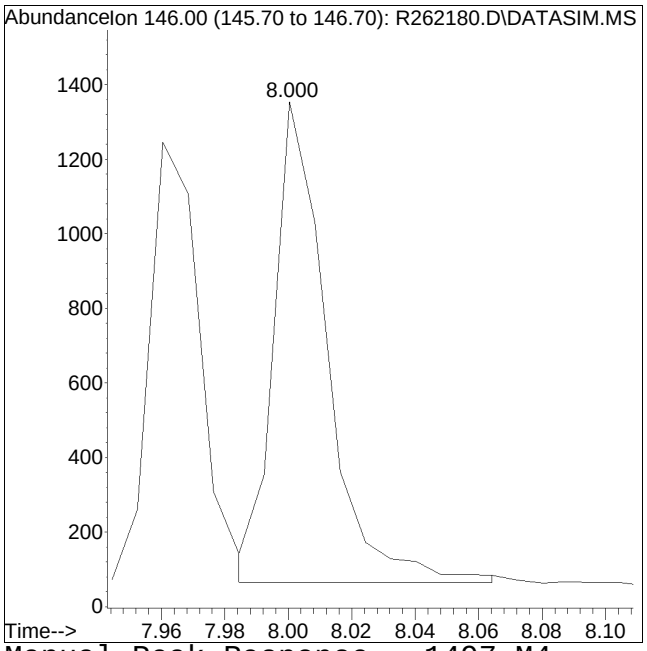
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1292



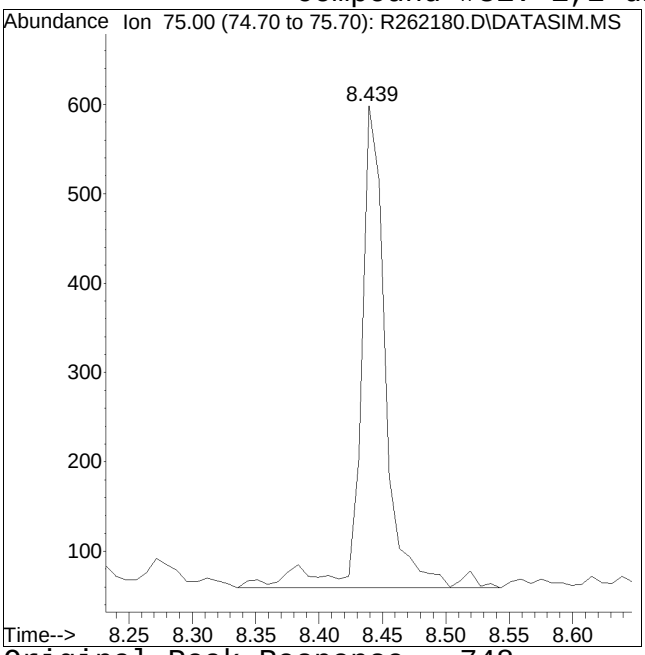
Manual Peak Response = 1497 M4

M4 = Poor automated baseline construction.

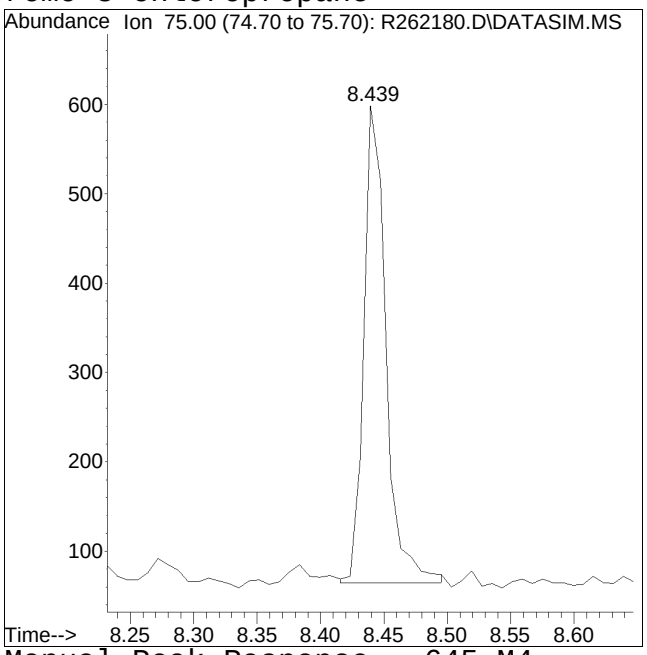
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262180.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 8:29 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 3/18/2025 12:17 pm

Compound #81: 1,2-dibromo-3-chloropropane



Original Peak Response = 748



Manual Peak Response = 645 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262181.D
Acq On : 14 Mar 2025 09:00 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.05
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	276445	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 102.76%			
33) 1,4-difluorobenzene	4.368	114	941404	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 99.91%			
51) chlorobenzene-D5	6.452	54	140163	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 97.16%			
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	0.000	98	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
67) bromofluorobenzene	0.000	95	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) propylene	2.004	41	327M4	0.082	ppbV	
3) dichlorodifluoromethane	2.021	85	2851	0.056	ppbV	97
4) chloromethane	2.070	50	1059M6	0.059	ppbV	
5) Freon-114	2.103	85	3661	0.052	ppbV	98
6) vinyl chloride	2.142	62	1214M4	0.053	ppbV	
7) 1,3-butadiene	2.185	54	771	0.075	ppbV	86
8) bromomethane	2.268	94	1296	0.055	ppbV	97
9) chloroethane	2.323	64	725M4	0.058	ppbV	
10) ethanol	2.356	31	9095	0.800	ppbV	100
11) vinyl bromide	2.434	106	1453M4	0.071	ppbV	
12) acrolein	2.462	56	796M4	0.068	ppbV	
13) acetone	2.502	43	13622M4	0.491	ppbV	
14) trichlorofluoromethane	2.547	101	5021	0.054	ppbV	100
15) isopropyl alcohol	2.570	45	8937	0.275	ppbV	99
16) acrylonitrile	2.626	53	1444M4	0.063	ppbV	
17) 1,1-dichloroethene	2.724	61	2970M4	0.053	ppbV	
18) tertiary butyl alcohol	2.743	59	4803	0.067	ppbV #	71
19) methylene chloride	2.752	49	3057M4	0.080	ppbV	
20) 3-chloropropene	2.791	41	1769	0.071	ppbV	97
21) carbon disulfide	2.843	76	4962	0.072	ppbV #	1
22) Freon 113	2.843	101	4158	0.053	ppbV	99
23) trans-1,2-dichloroethene	3.055	61	2613	0.071	ppbV	99
24) 1,1-dichloroethane	3.126	63	3482M4	0.052	ppbV	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262181.D
Acq On : 14 Mar 2025 09:00 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.05
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.161	73	4876	0.073	ppbV	#	1
26) vinyl acetate	3.192	43	4014M4	0.089	ppbV		
27) 2-butanone	3.285	43	1865	0.063	ppbV	#	91
28) cis-1,2-dichloroethene	3.435	61	1467	0.054	ppbV		98
29) Ethyl Acetate	3.570	61	558	0.110	ppbV	#	1
30) chloroform	3.562	83	3230	0.067	ppbV	#	1
31) Tetrahydrofuran	3.749	42	872	0.083	ppbV		86
32) 1,2-dichloroethane	3.863	62	1625	0.054	ppbV	#	93
34) hexane	3.540	57	1389	0.077	ppbV	#	70
36) 1,1,1-trichloroethane	3.977	97	2521	0.053	ppbV	#	98
37) benzene	4.179	78	3232M4	0.052	ppbV		
38) carbon tetrachloride	4.245	117	2457	0.050	ppbV		97
39) cyclohexane	4.359	56	19583	1.042	ppbV	#	13
40) Dibromomethane	4.538	93	1663	0.059	ppbV	#	100
41) 1,2-dichloropropane	4.566	63	1262	0.057	ppbV	#	90
42) bromodichloromethane	4.651	83	2490	0.072	ppbV		98
43) 1,4-dioxane	4.726	88	671M4	0.068	ppbV		
44) trichloroethene	4.679	130	1699M4	0.052	ppbV		
45) 2,2,4-trimethylpentane	4.717	57	3933M4	0.066	ppbV		
46) heptane	4.858	43	1257M4	0.066	ppbV		
47) cis-1,3-dichloropropene	5.113	75	1657M4	0.050	ppbV		
48) 4-methyl-2-pentanone	5.160	43	1625M4	0.058	ppbV		
49) trans-1,3-dichloropropene	5.376	75	1219M4	0.045	ppbV		
50) 1,1,2-trichloroethane	5.448	97	1489M4	0.051	ppbV		
52) toluene	5.591	91	4225	0.054	ppbV		97
54) 2-hexanone	5.775	43	1118	0.042	ppbV		99
55) dibromochloromethane	5.783	129	2369	0.066	ppbV		98
56) 1,2-dibromoethane	5.903	107	2321	0.051	ppbV		100
57) tetrachloroethene	6.142	166	2114	0.051	ppbV		95
58) 1,1,1,2-tetrachloroethane	6.474	131	1837	0.052	ppbV	#	98
59) chlorobenzene	6.474	112	3693	0.054	ppbV	#	1
60) ethylbenzene	6.675	91	4977	0.047	ppbV		97
61) m+p-xylene	6.768	91	7944	0.093	ppbV		98
62) bromoform	6.768	173	1857M4	0.057	ppbV		
63) styrene	6.943	104	2655M4	0.044	ppbV		
64) 1,1,2,2-tetrachloroethane	6.989	83	3251M4	0.050	ppbV		
65) o-xylene	6.995	91	3604M4	0.043	ppbV		
66) 1,2,3-Trichloropropane	7.053	75	2347	0.052	ppbV	#	94
68) isopropylbenzene	7.298	105	4982	0.043	ppbV		98
69) Bromobenzene	7.309	77	2295M6	0.045	ppbV		

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262181.D
Acq On : 14 Mar 2025 09:00 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.05
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

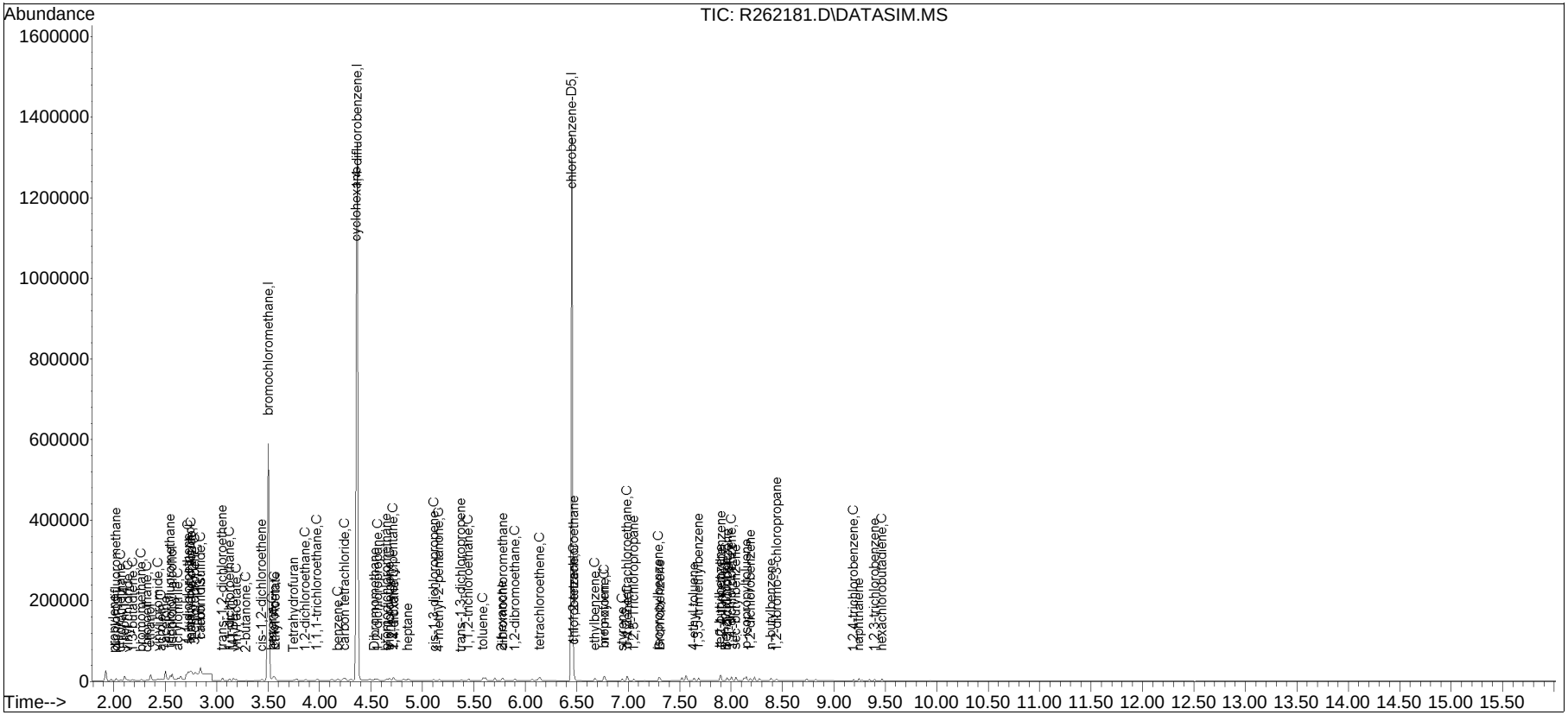
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	4378M4	0.053	ppbV		
71) 1,3,5-trimethylbenzene	7.685	105	3631M4	0.038	ppbV		
72) tert-butylbenzene	7.893	119	4497M4	0.042	ppbV		
73) 1,2,4-trimethylbenzene	7.901	105	3842	0.038	ppbV		94
74) Benzyl Chloride	7.957	91	1907	0.045	ppbV		95
75) 1,3-dichlorobenzene	7.965	146	3295M4	0.042	ppbV		
76) 1,4-dichlorobenzene	8.005	146	3531M4	0.045	ppbV		
77) sec-butylbenzene	8.045	105	5871	0.040	ppbV		99
78) p-isopropyltoluene	8.148	119	5054	0.037	ppbV		99
79) 1,2-dichlorobenzene	8.188	146	3262	0.042	ppbV		94
80) n-butylbenzene	8.388	91	4696	0.038	ppbV		94
81) 1,2-dibromo-3-chloropr...	8.444	75	1401M4	0.043	ppbV		
82) 1,2,4-trichlorobenzene	9.192	180	2459	0.036	ppbV		97
83) naphthalene	9.244	128	5679	0.037	ppbV		99
84) 1,2,3-trichlorobenzene	9.396	180	2682	0.032	ppbV		96
85) hexachlorobutadiene	9.467	225	2159	0.037	ppbV	#	91

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262181.D
Acq On : 14 Mar 2025 09:00 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.05
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

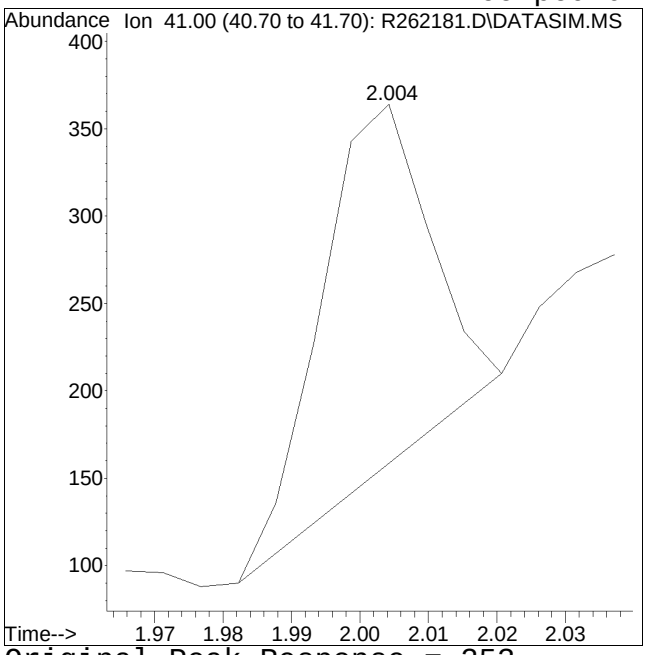


Manual Integration Report

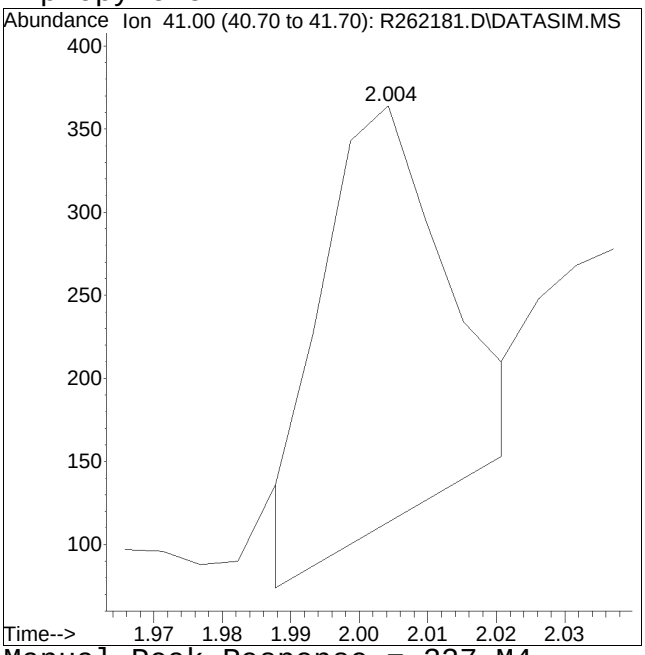
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262181.D
Date Inj'd : 3/14/2025 9:00 pm
Sample : ITO15-SIMSTD0.05

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:17 pm

Compound #2: propylene



Original Peak Response = 253



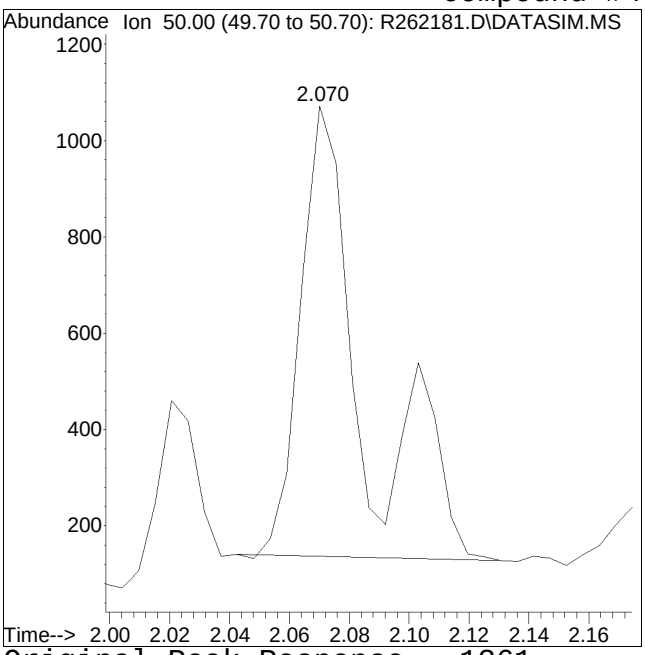
Manual Peak Response = 327 M4

M4 = Poor automated baseline construction.

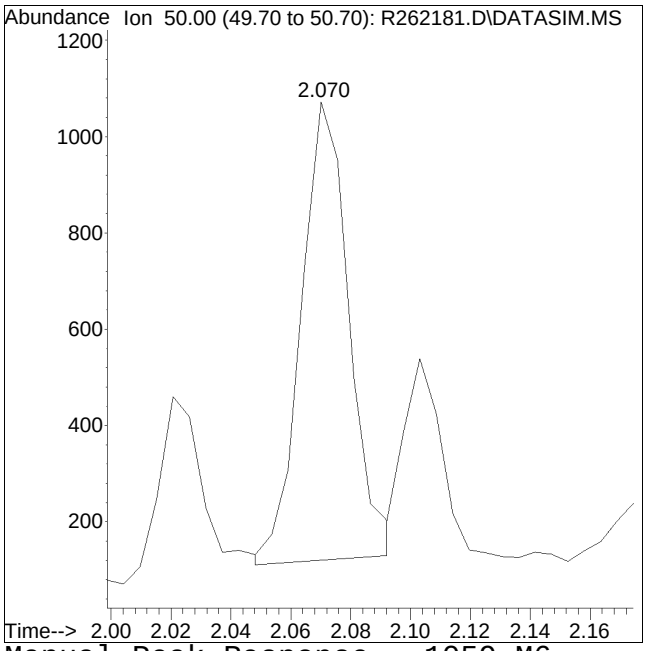
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #4: chloromethane



Original Peak Response = 1361



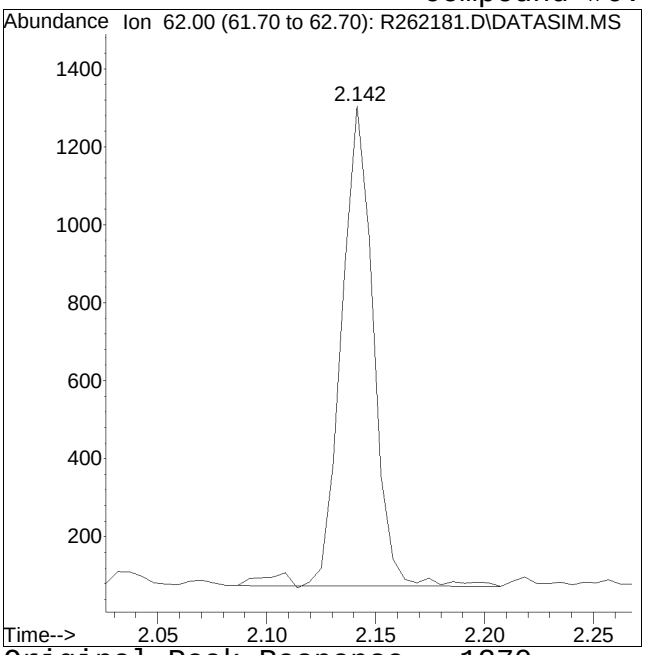
Manual Peak Response = 1059 M6

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

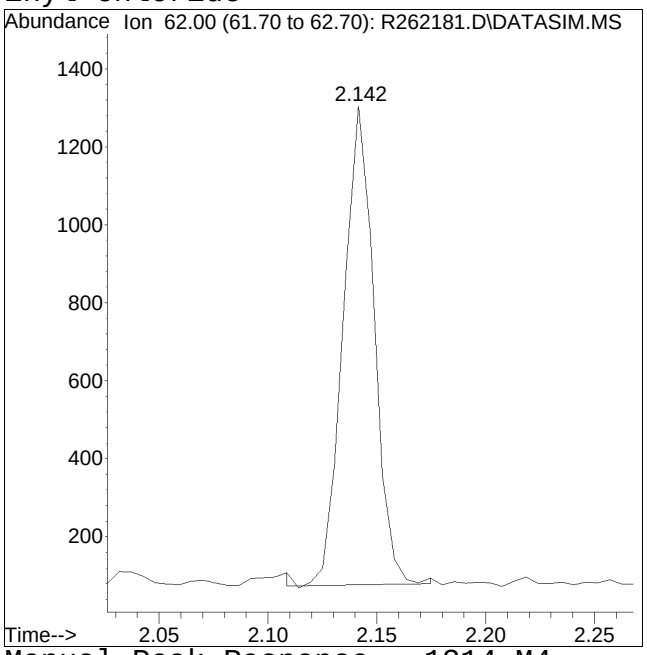
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #6: vinyl chloride



Original Peak Response = 1270



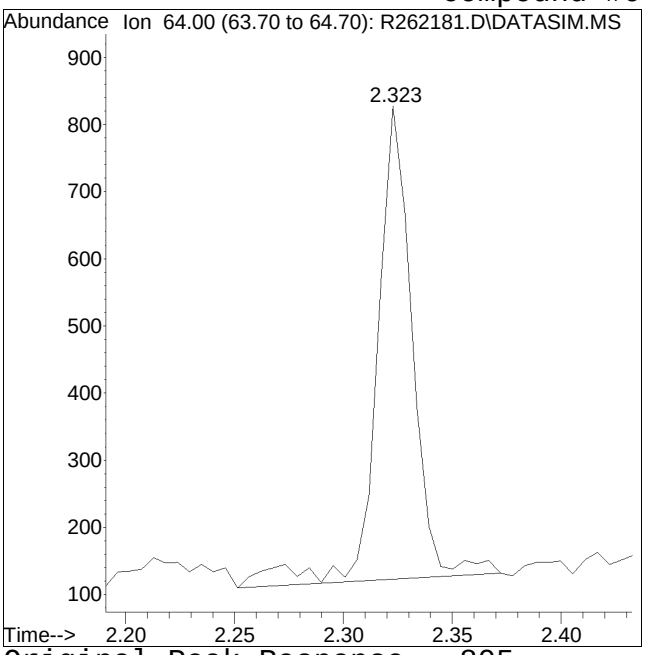
Manual Peak Response = 1214 M4

M4 = Poor automated baseline construction.

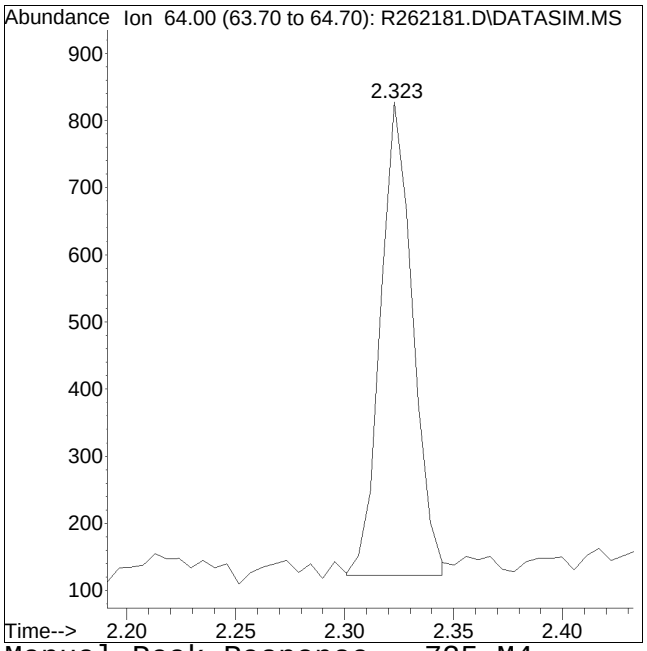
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #9: chloroethane



Original Peak Response = 805



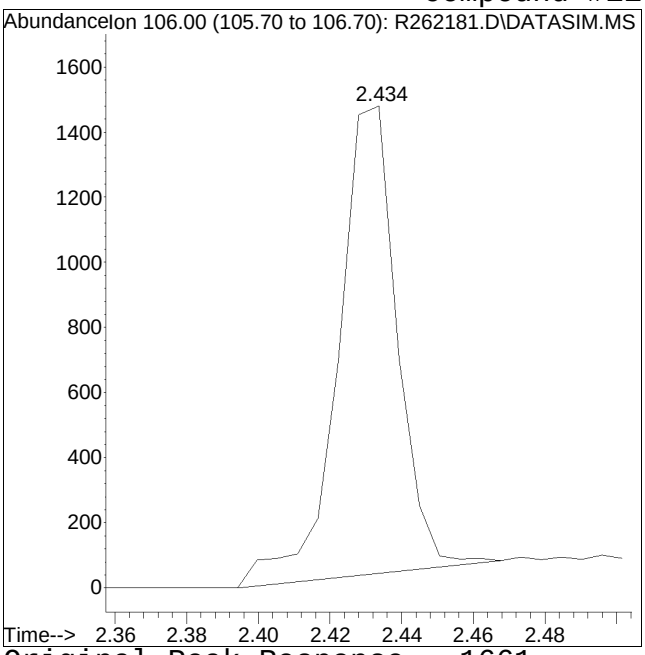
Manual Peak Response = 725 M4

M4 = Poor automated baseline construction.

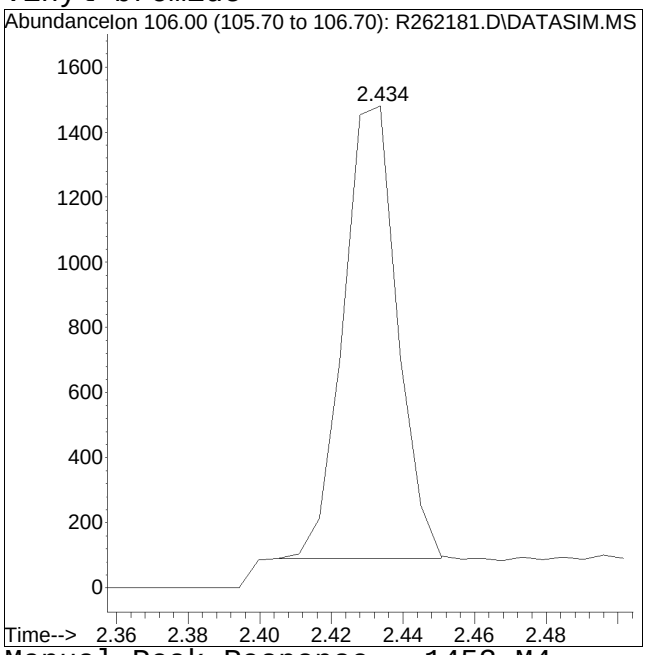
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #11: vinyl bromide



Original Peak Response = 1661



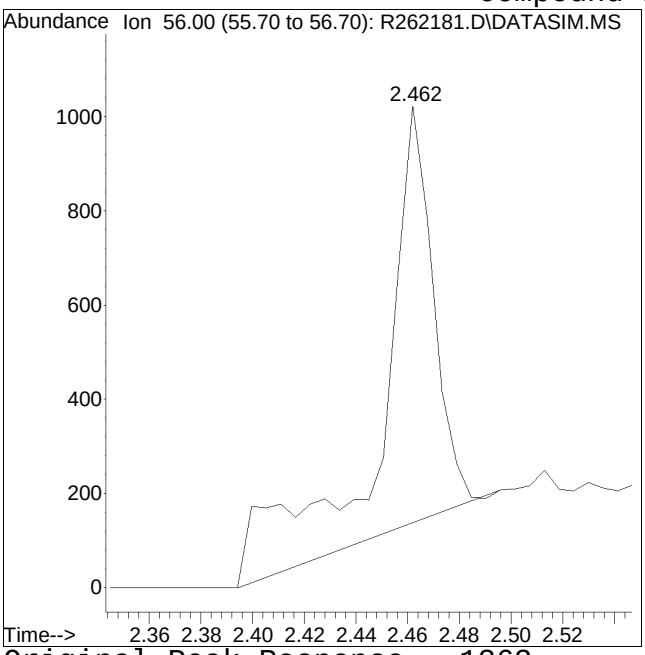
Manual Peak Response = 1453 M4

M4 = Poor automated baseline construction.

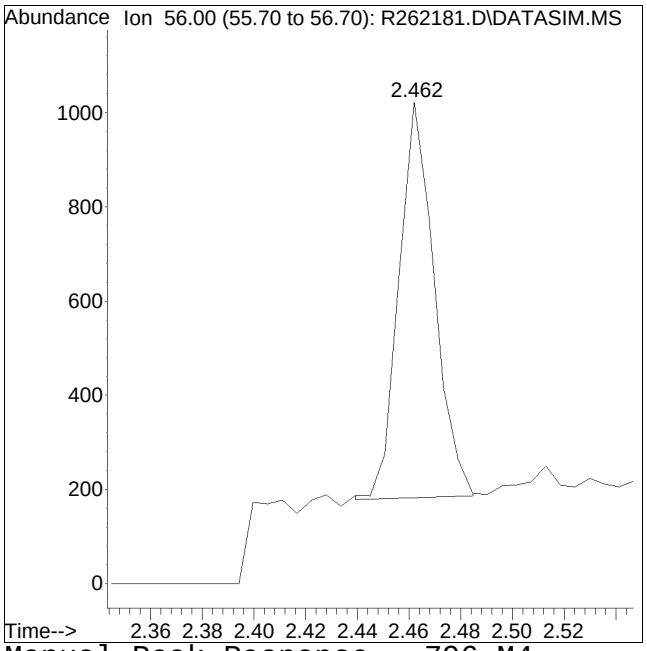
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #12: acrolein



Original Peak Response = 1263



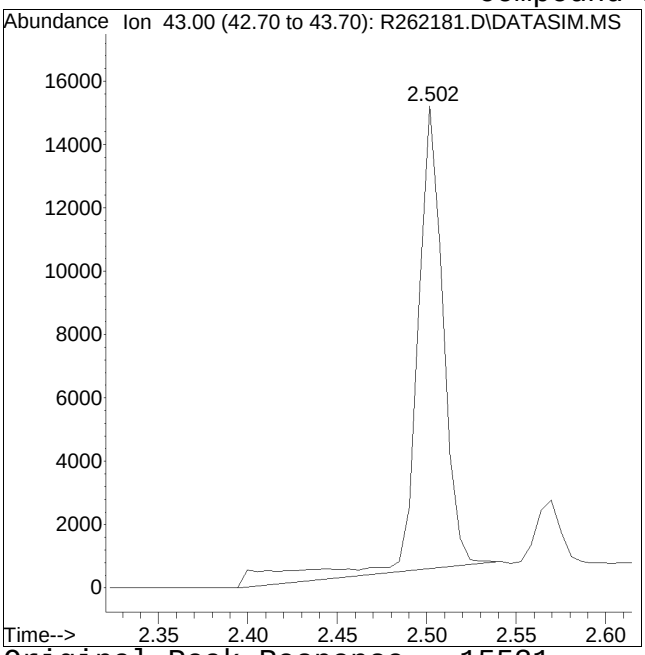
Manual Peak Response = 796 M4

M4 = Poor automated baseline construction.

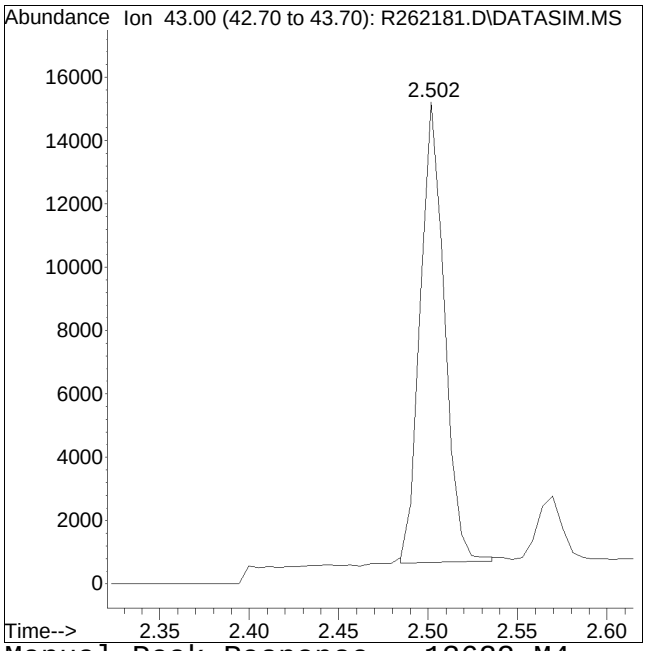
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #13: acetone



Original Peak Response = 15531



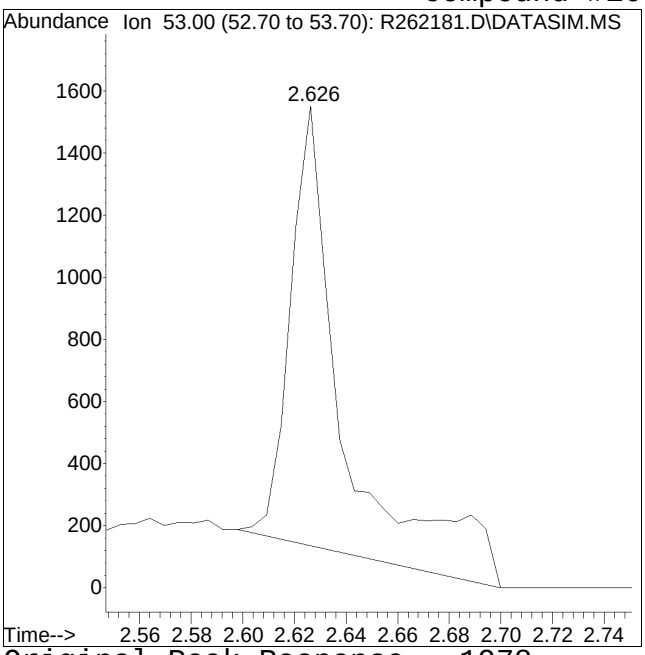
Manual Peak Response = 13622 M4

M4 = Poor automated baseline construction.

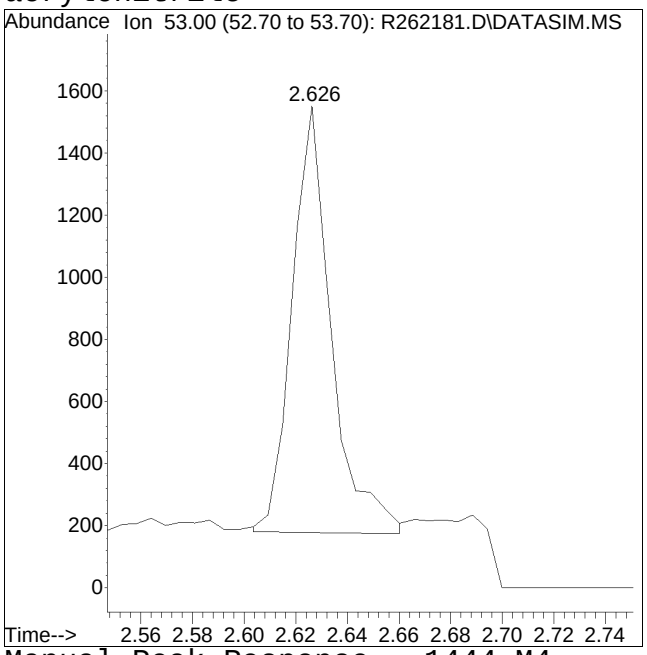
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #16: acrylonitrile



Original Peak Response = 1978



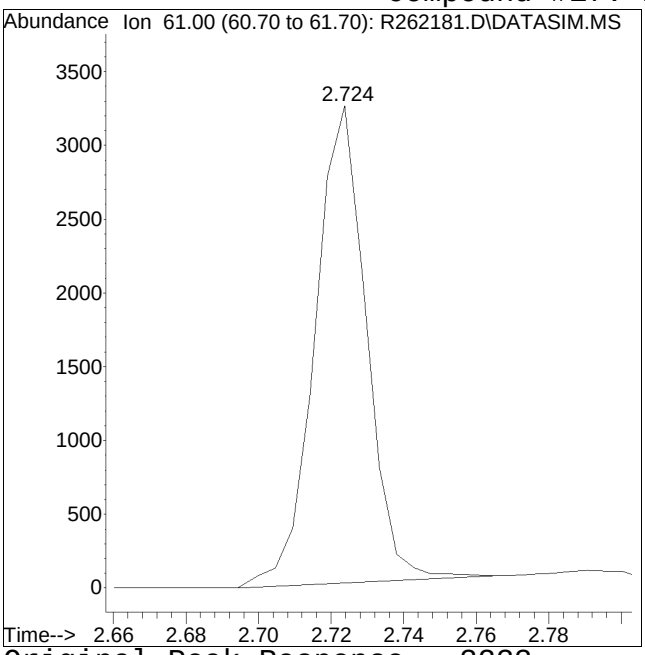
Manual Peak Response = 1444 M4

M4 = Poor automated baseline construction.

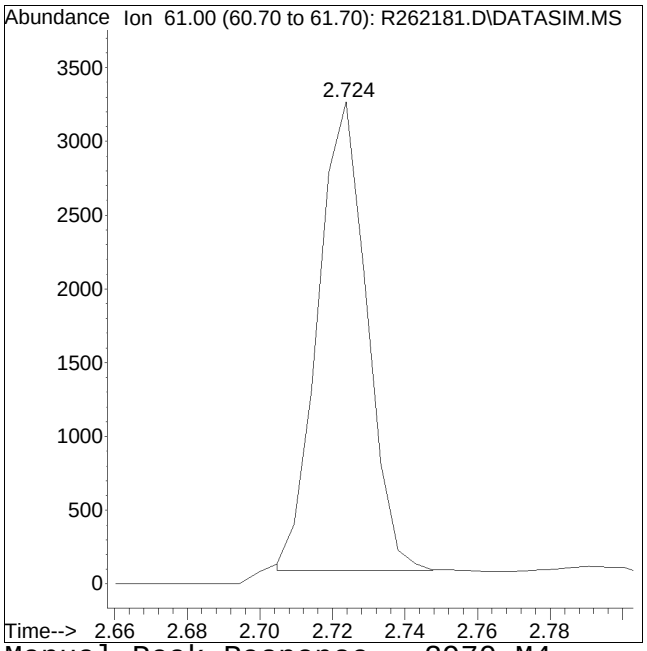
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 3233



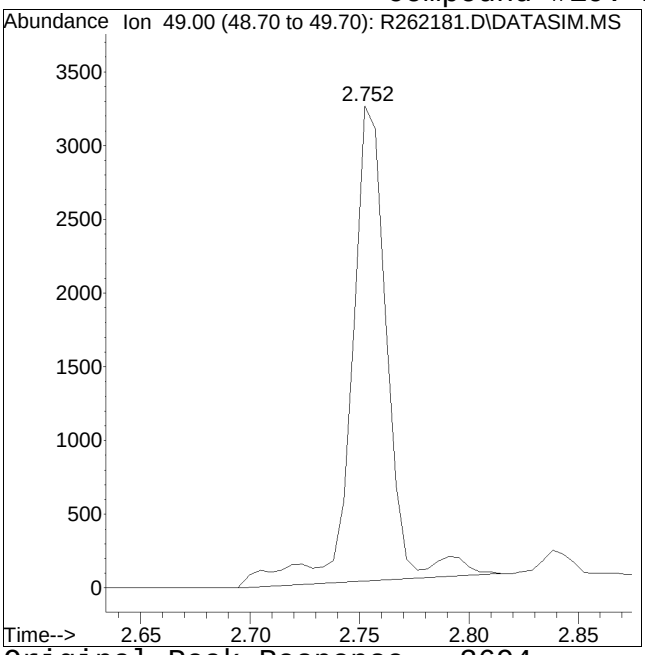
Manual Peak Response = 2970 M4

M4 = Poor automated baseline construction.

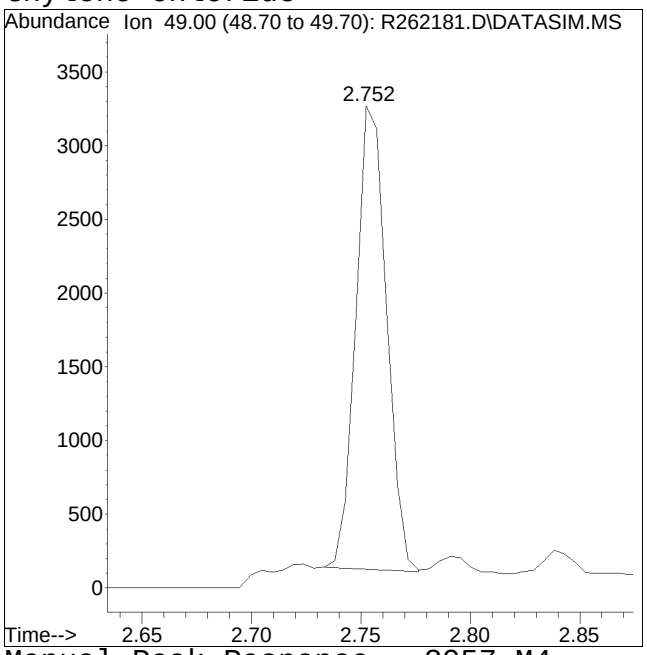
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #19: methylene chloride



Original Peak Response = 3694



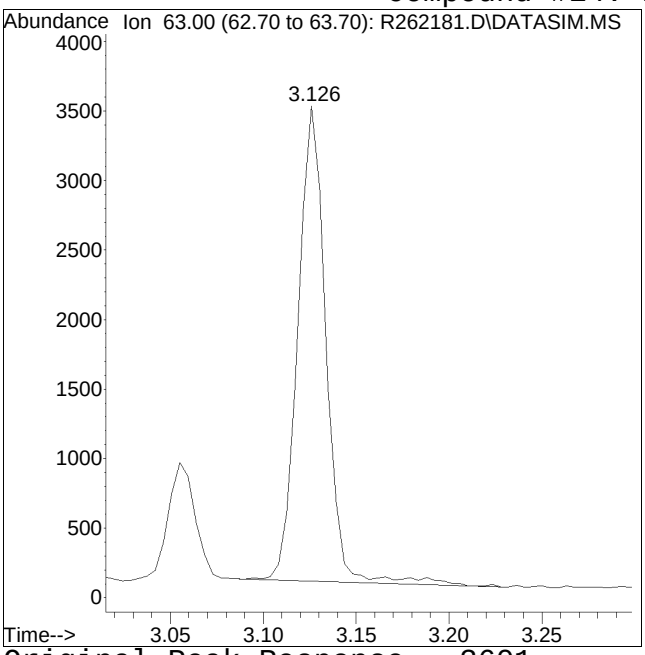
Manual Peak Response = 3057 M4

M4 = Poor automated baseline construction.

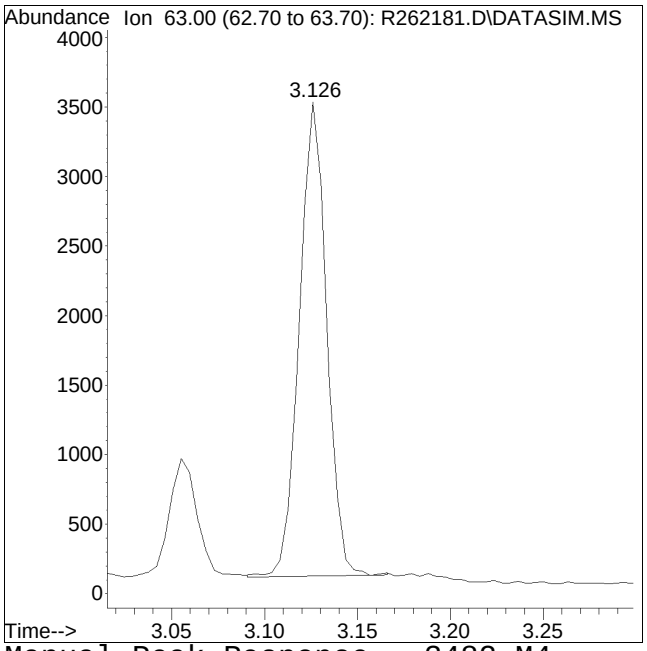
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #24: 1,1-dichloroethane



Original Peak Response = 3601



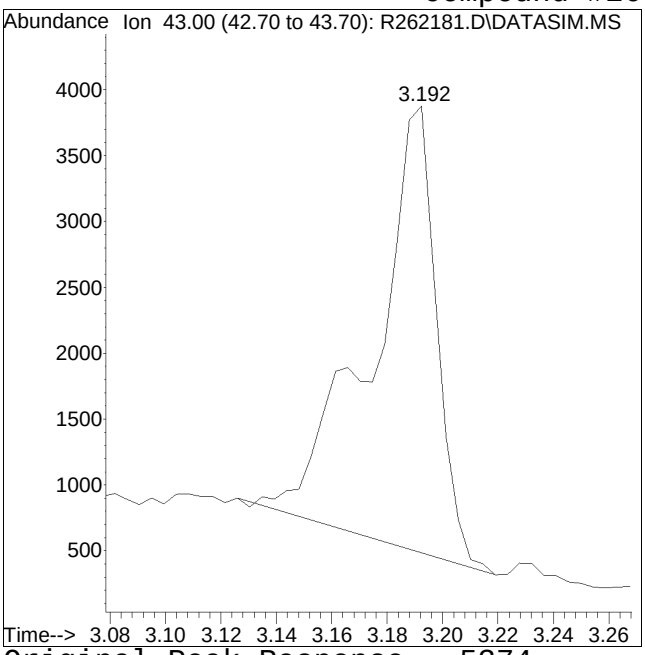
Manual Peak Response = 3482 M4

M4 = Poor automated baseline construction.

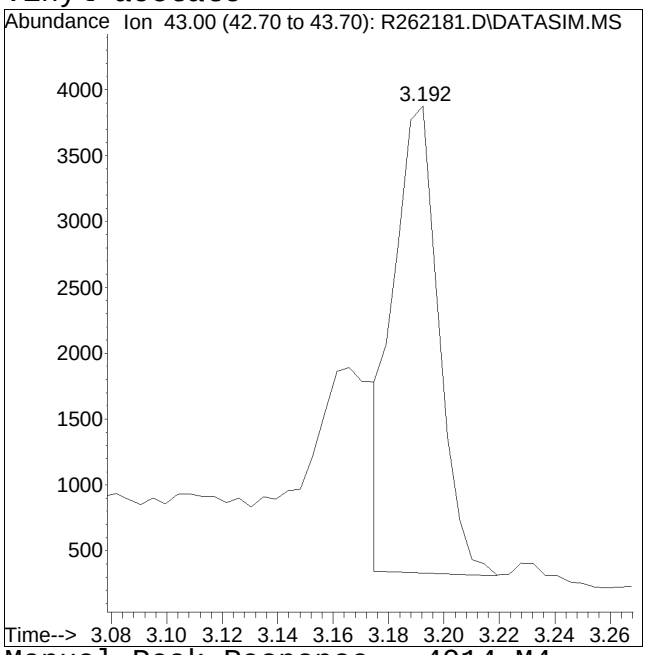
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #26: vinyl acetate



Original Peak Response = 5374



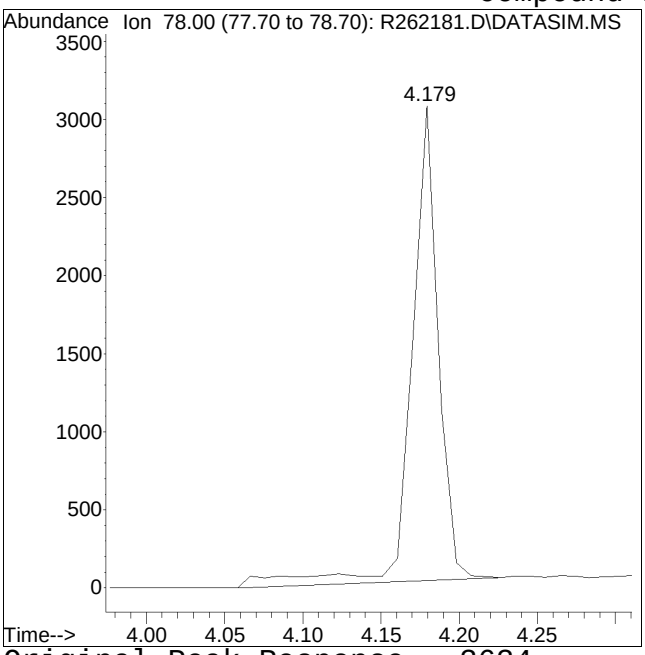
Manual Peak Response = 4014 M4

M4 = Poor automated baseline construction.

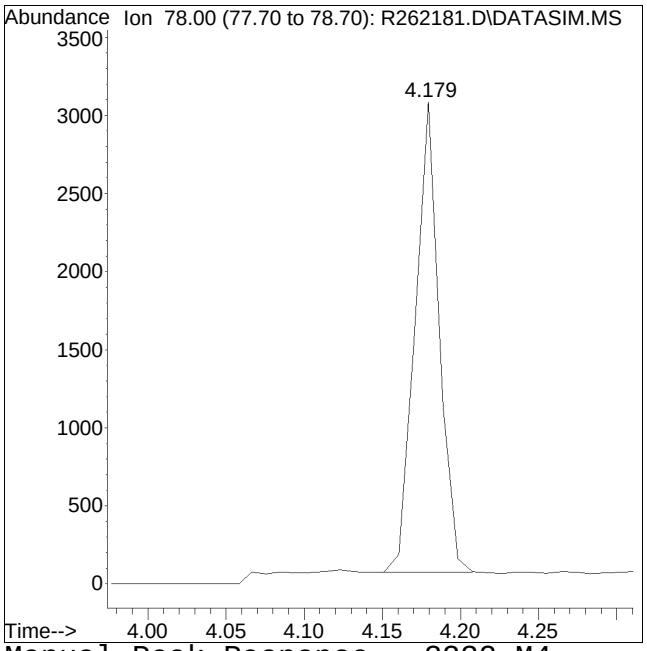
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #37: benzene



Original Peak Response = 3634



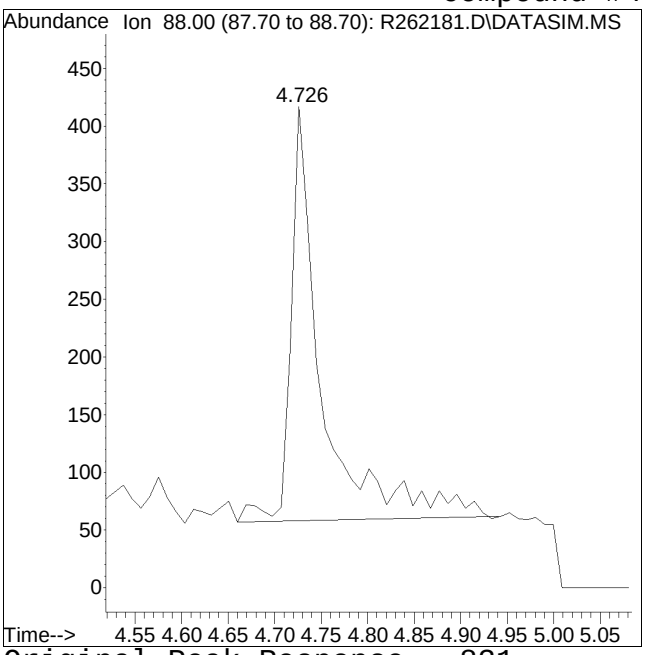
Manual Peak Response = 3232 M4

M4 = Poor automated baseline construction.

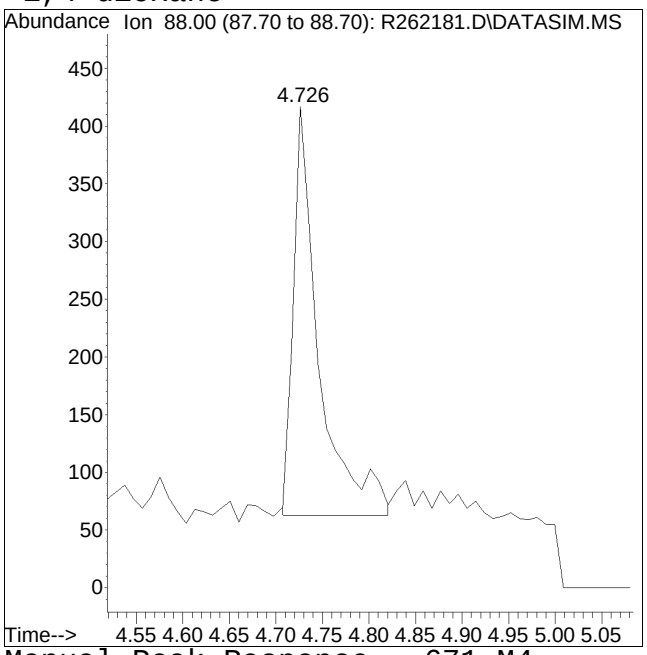
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #43: 1,4-dioxane



Original Peak Response = 831



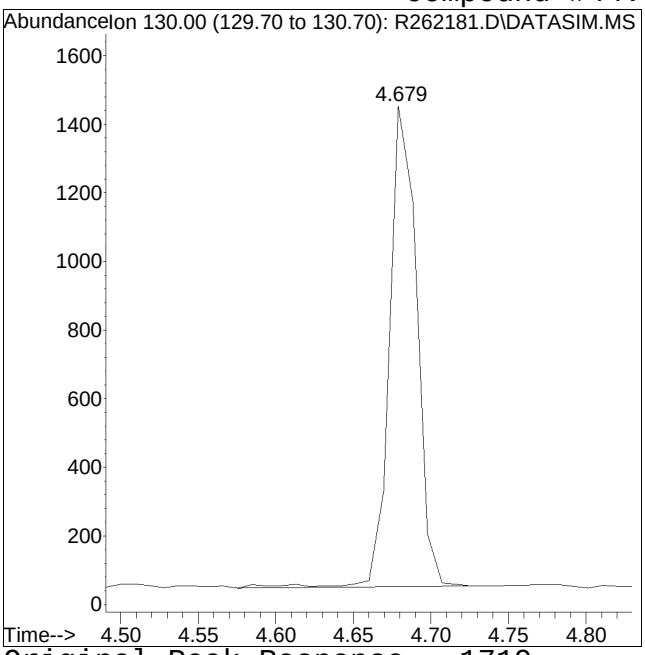
Manual Peak Response = 671 M4

M4 = Poor automated baseline construction.

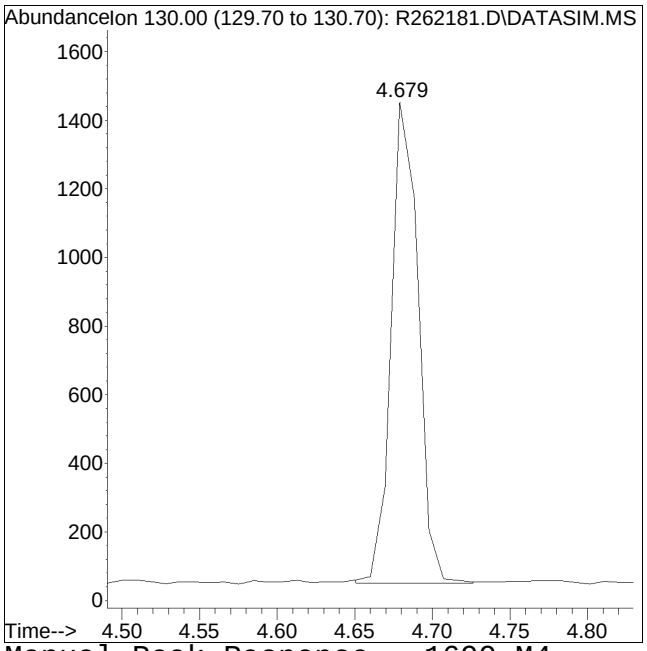
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #44: trichloroethene



Original Peak Response = 1719



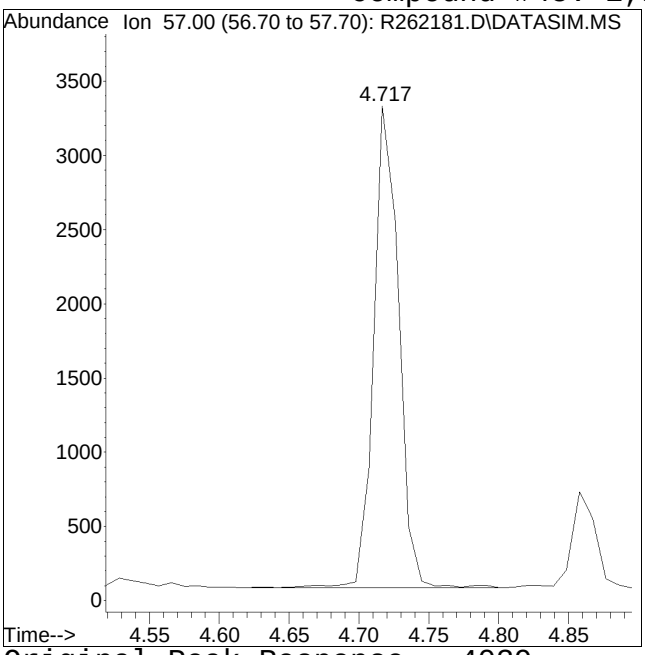
Manual Peak Response = 1699 M4

M4 = Poor automated baseline construction.

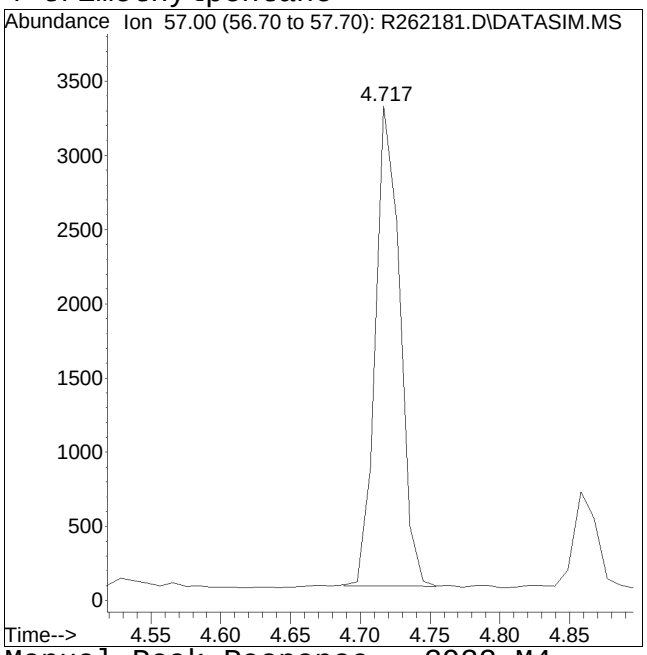
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 4039



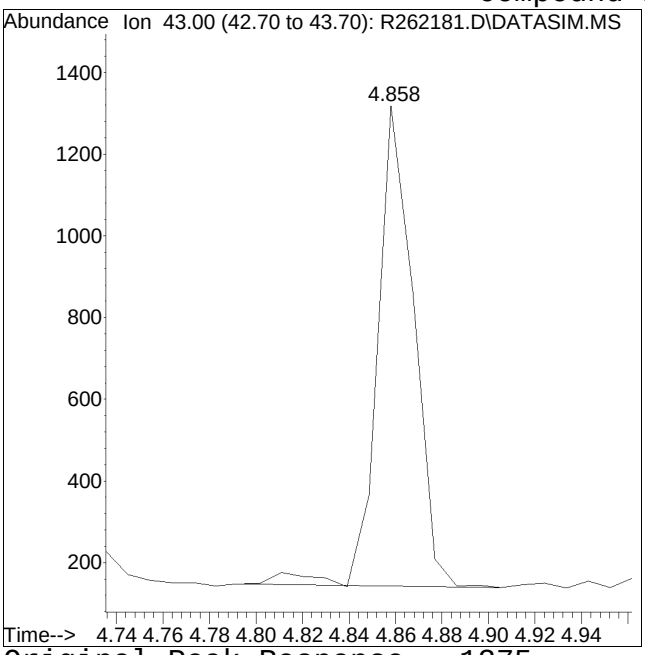
Manual Peak Response = 3933 M4

M4 = Poor automated baseline construction.

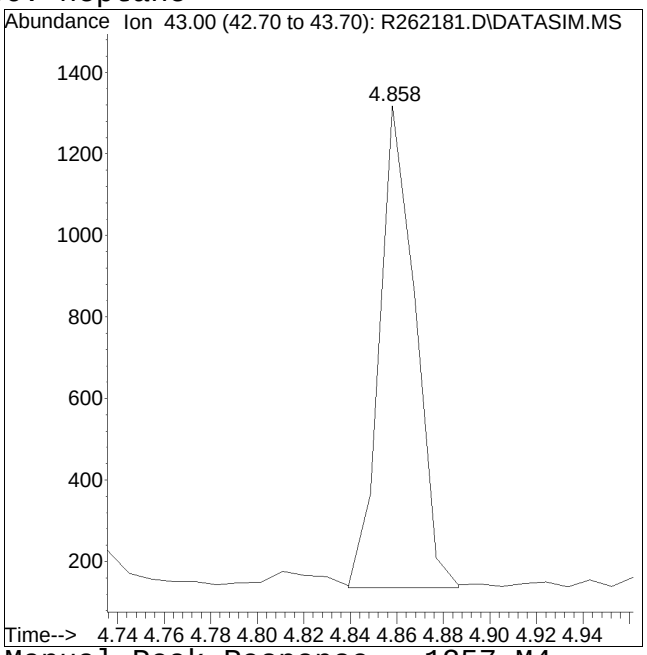
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #46: heptane



Original Peak Response = 1275



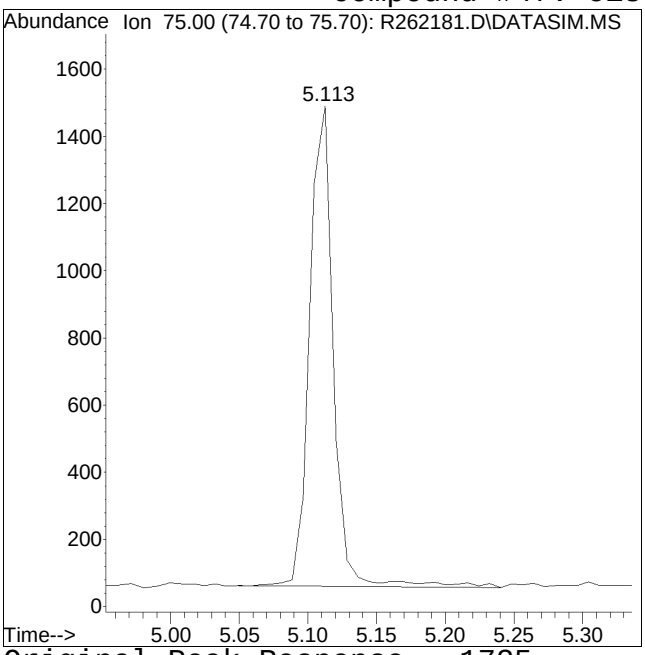
Manual Peak Response = 1257 M4

M4 = Poor automated baseline construction.

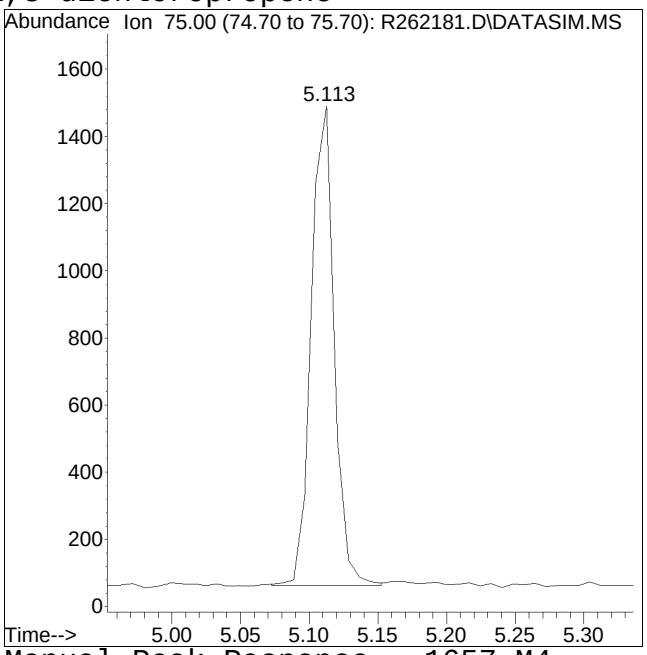
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 1725



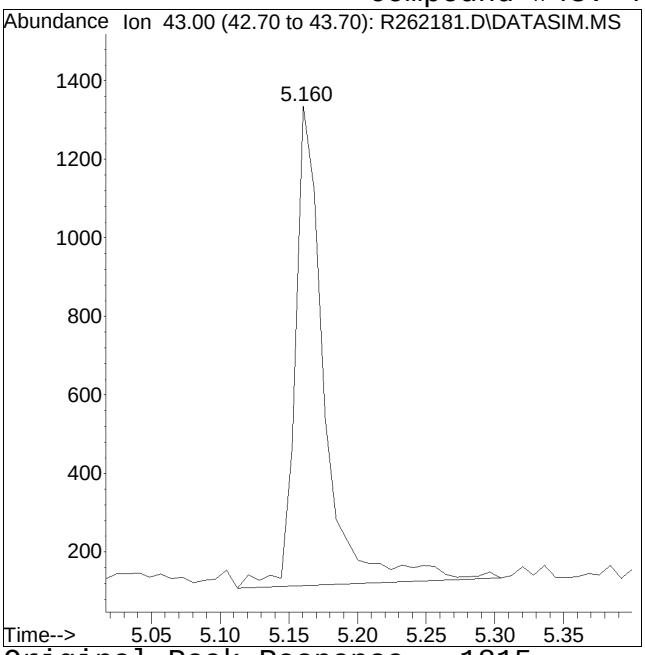
Manual Peak Response = 1657 M4

M4 = Poor automated baseline construction.

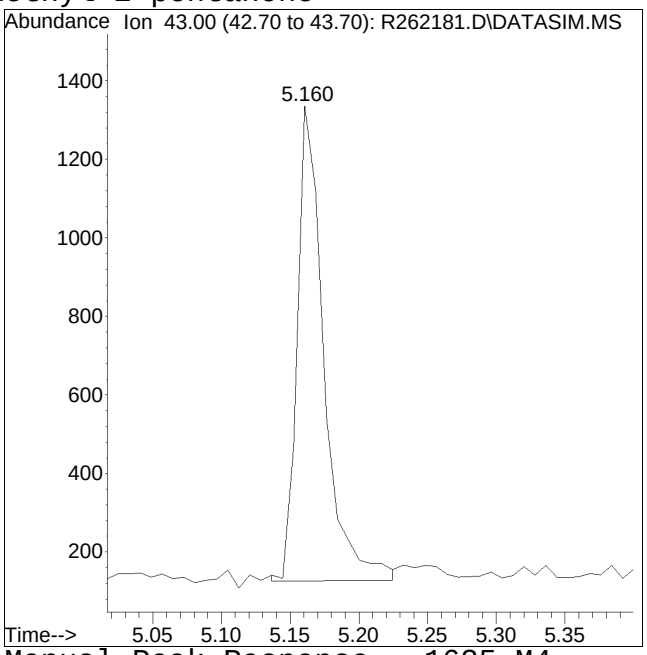
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 1815



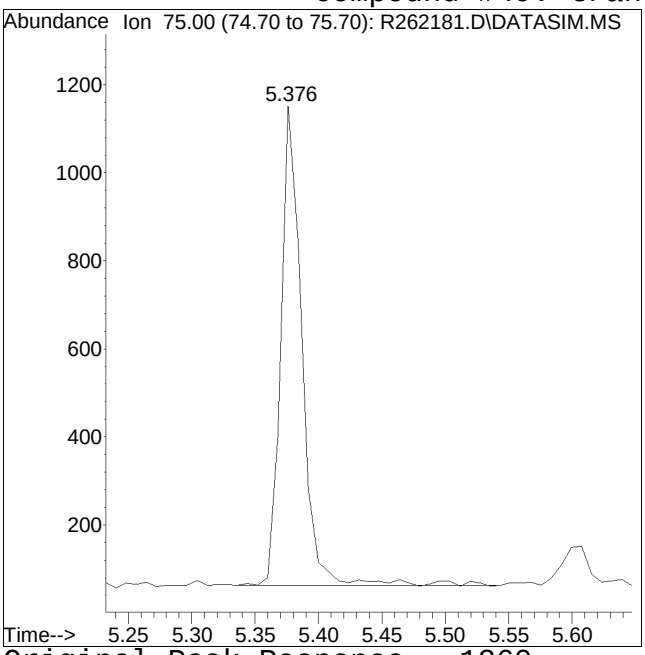
Manual Peak Response = 1625 M4

M4 = Poor automated baseline construction.

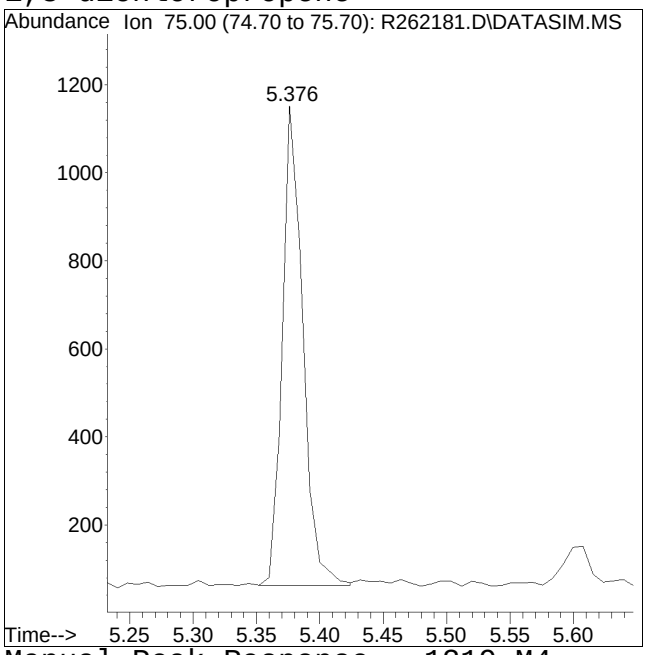
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 1260



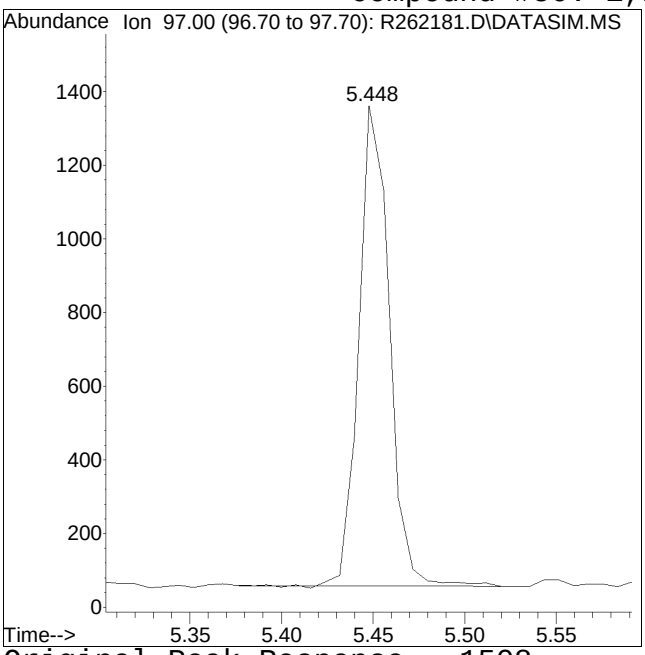
Manual Peak Response = 1219 M4

M4 = Poor automated baseline construction.

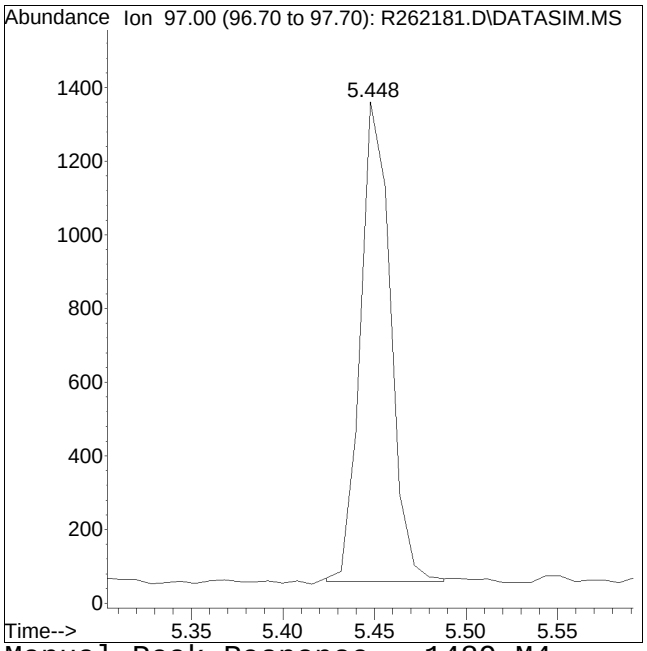
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #50: 1,1,2-trichloroethane



Original Peak Response = 1508



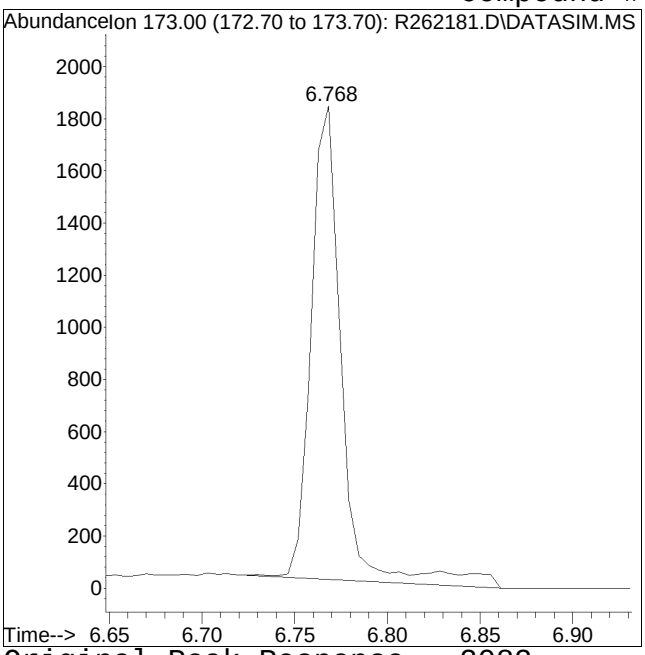
Manual Peak Response = 1489 M4

M4 = Poor automated baseline construction.

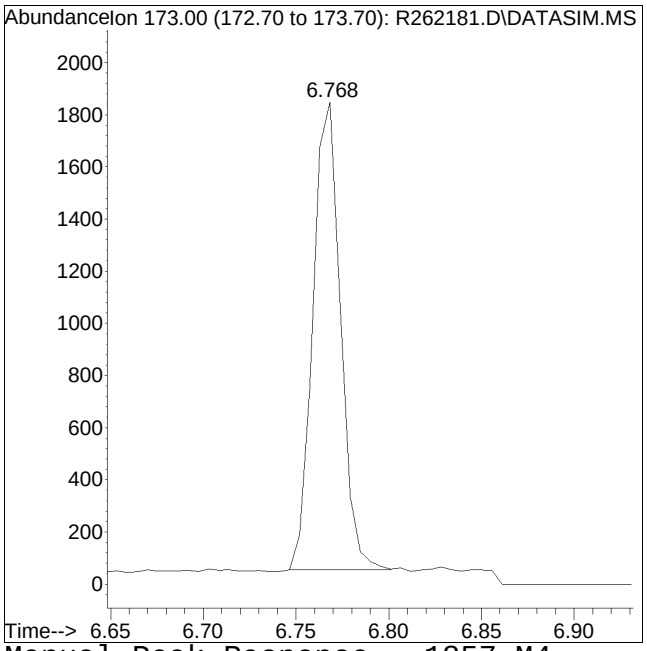
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #62: bromoform



Original Peak Response = 2082



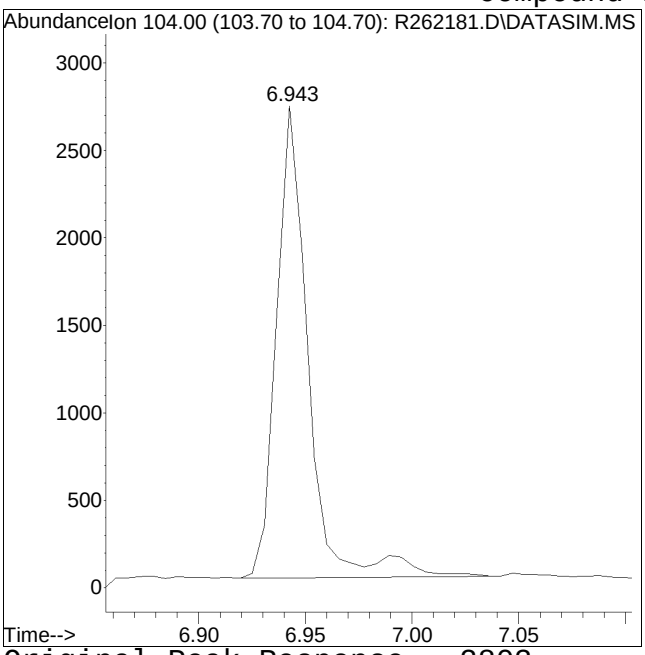
Manual Peak Response = 1857 M4

M4 = Poor automated baseline construction.

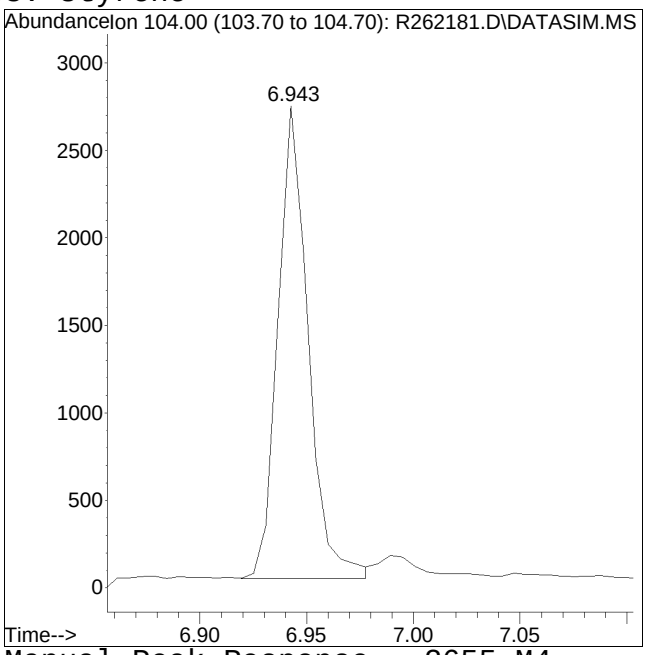
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #63: styrene



Original Peak Response = 2803



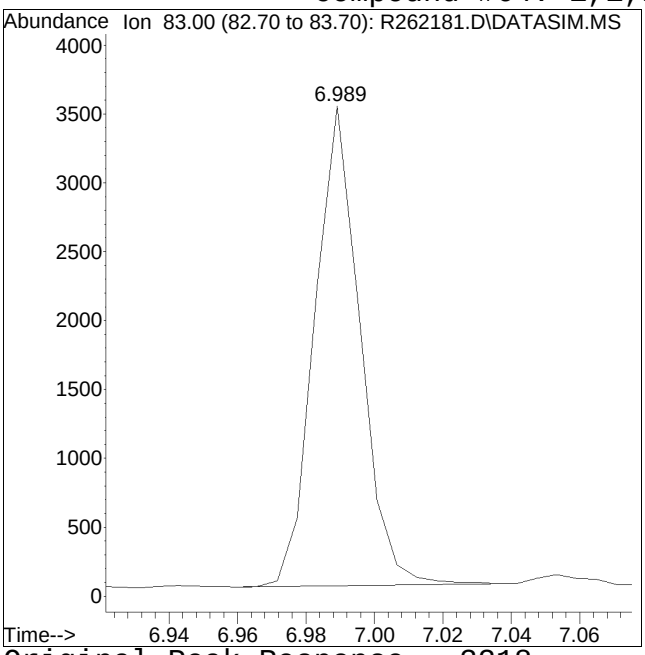
Manual Peak Response = 2655 M4

M4 = Poor automated baseline construction.

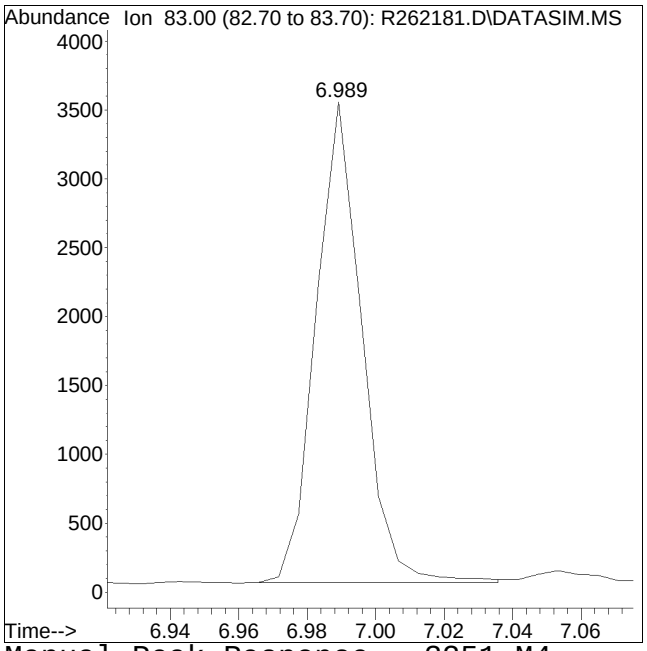
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #64: 1,1,2,2-tetrachloroethane



Original Peak Response = 3218



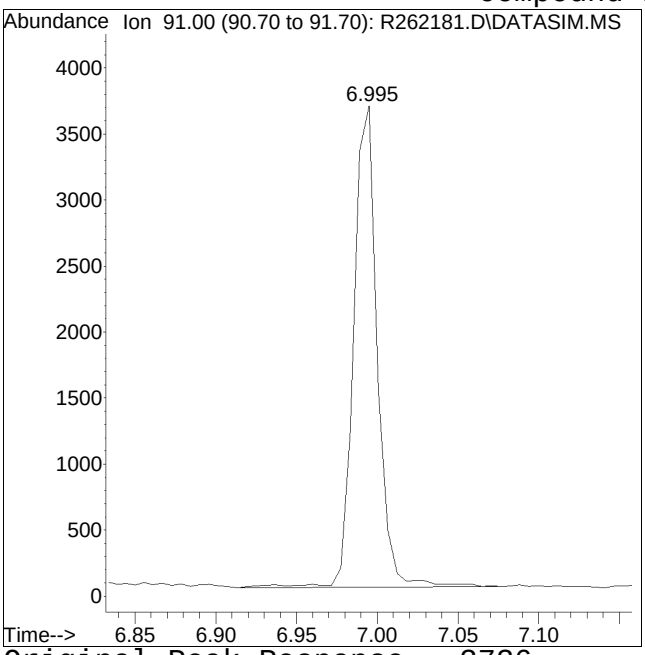
Manual Peak Response = 3251 M4

M4 = Poor automated baseline construction.

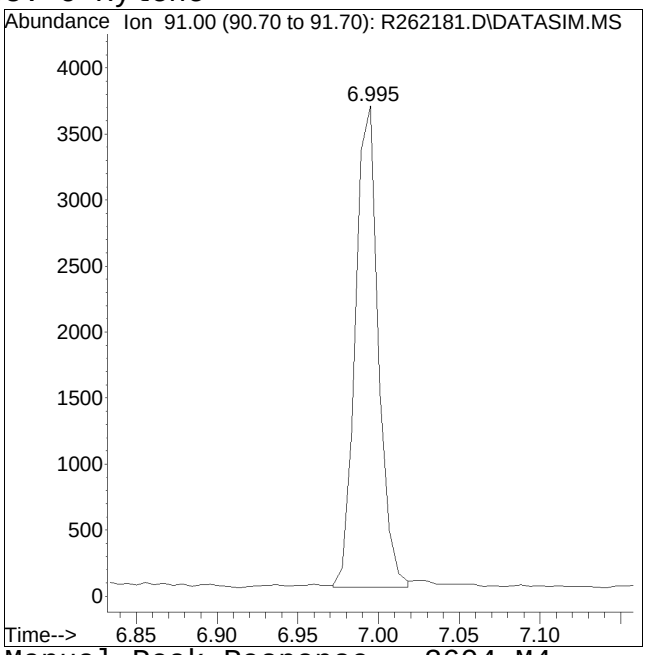
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #65: o-xylene



Original Peak Response = 3736



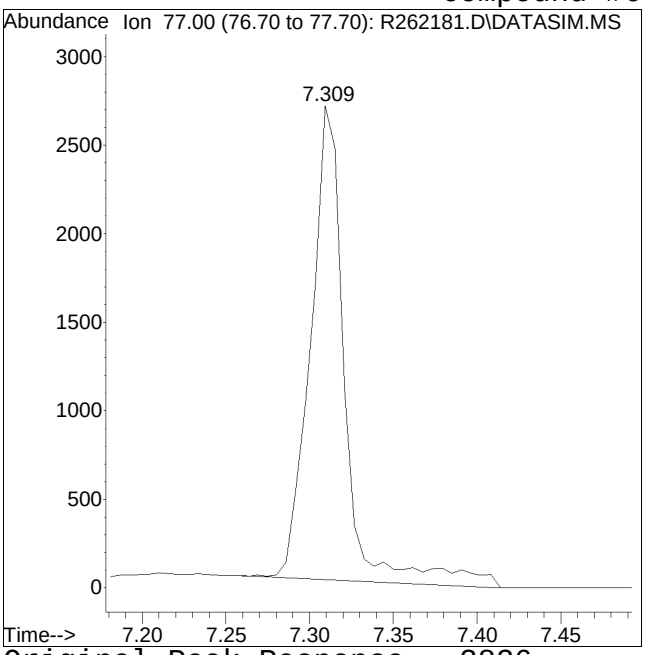
Manual Peak Response = 3604 M4

M4 = Poor automated baseline construction.

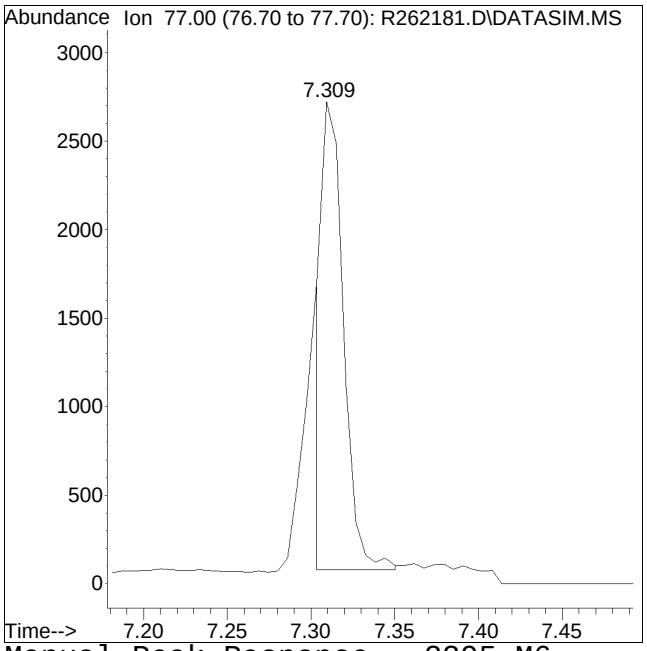
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #69: Bromobenzene



Original Peak Response = 3826



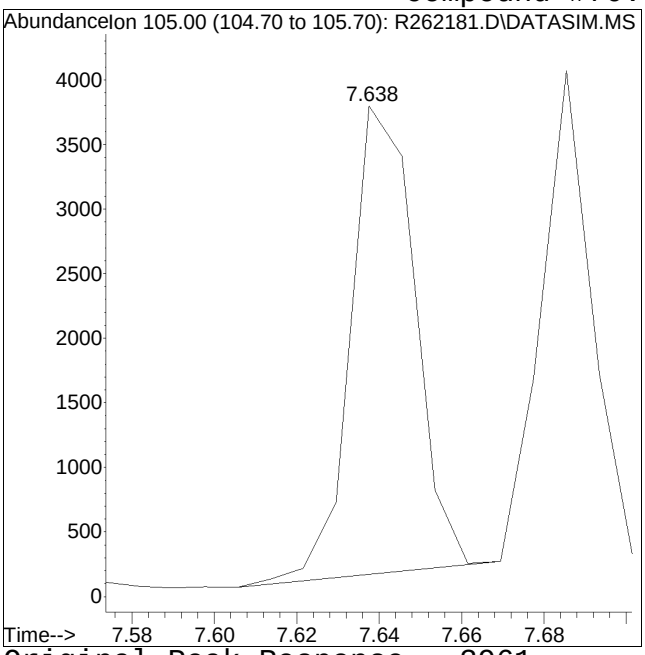
Manual Peak Response = 2295 M6

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

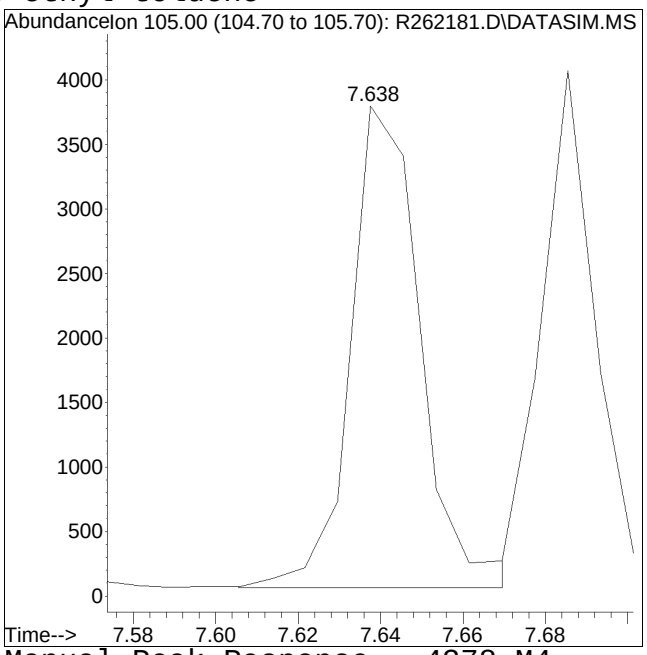
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 3961



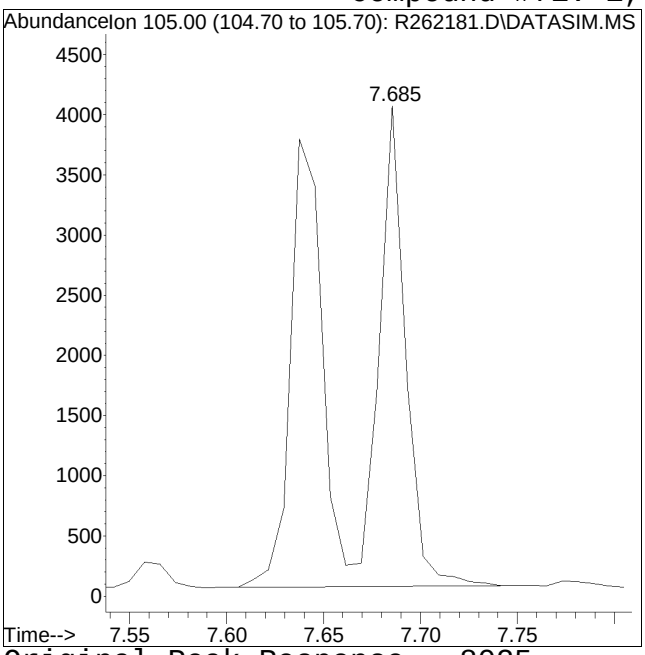
Manual Peak Response = 4378 M4

M4 = Poor automated baseline construction.

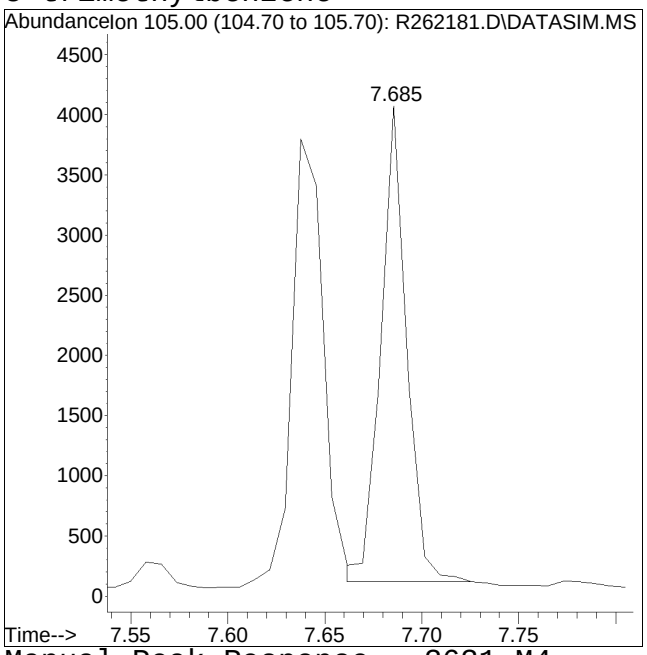
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 8025



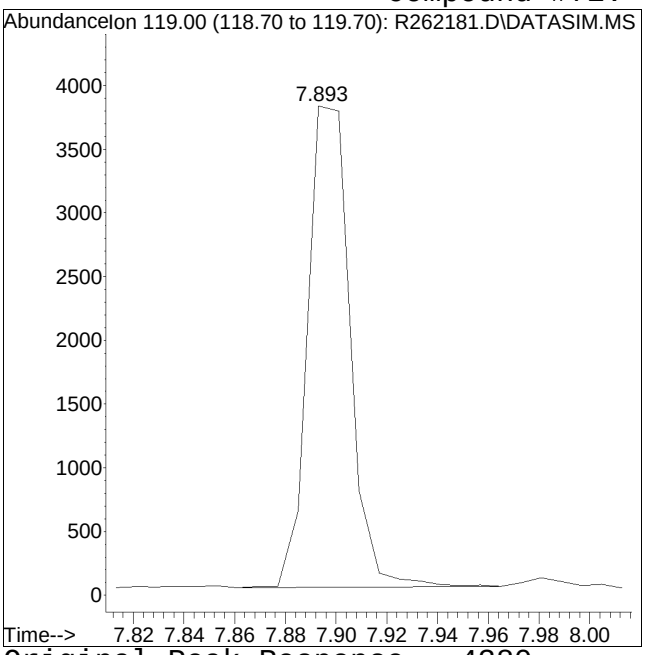
Manual Peak Response = 3631 M4

M4 = Poor automated baseline construction.

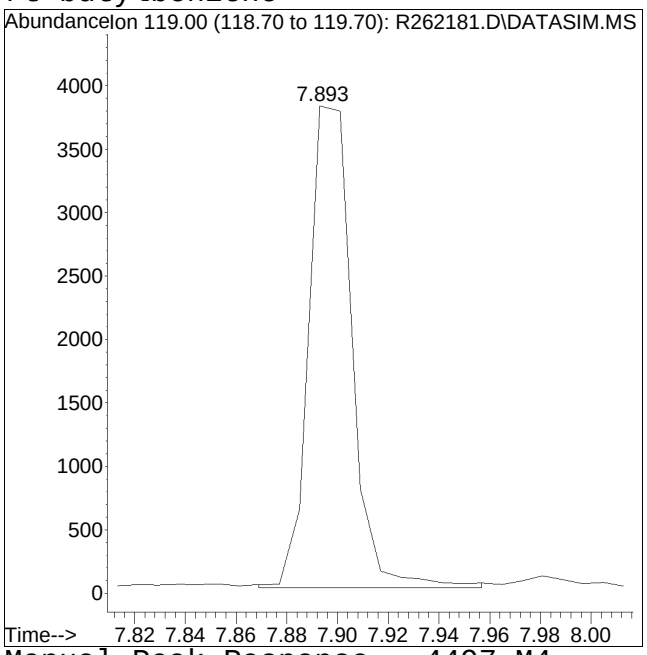
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #72: tert-butylbenzene



Original Peak Response = 4380



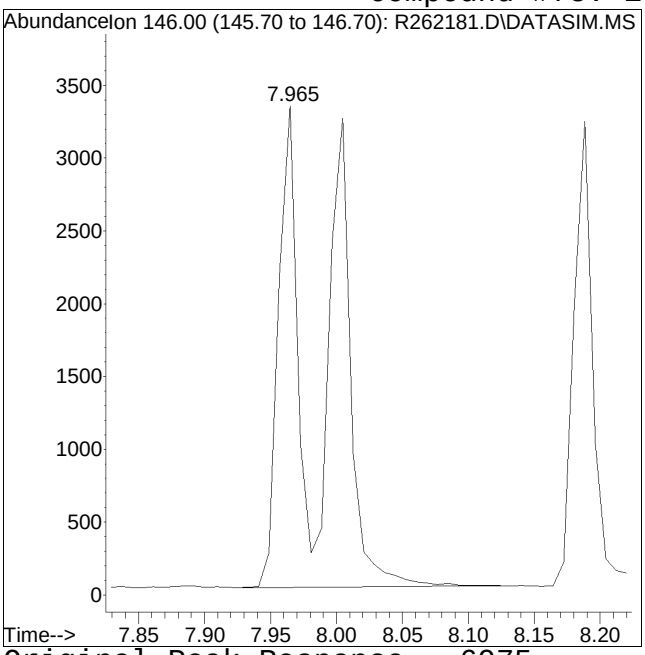
Manual Peak Response = 4497 M4

M4 = Poor automated baseline construction.

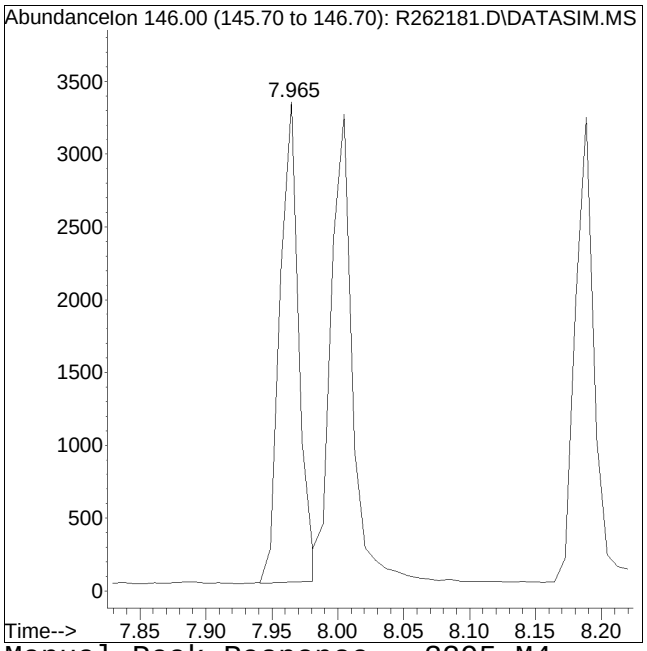
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 6975



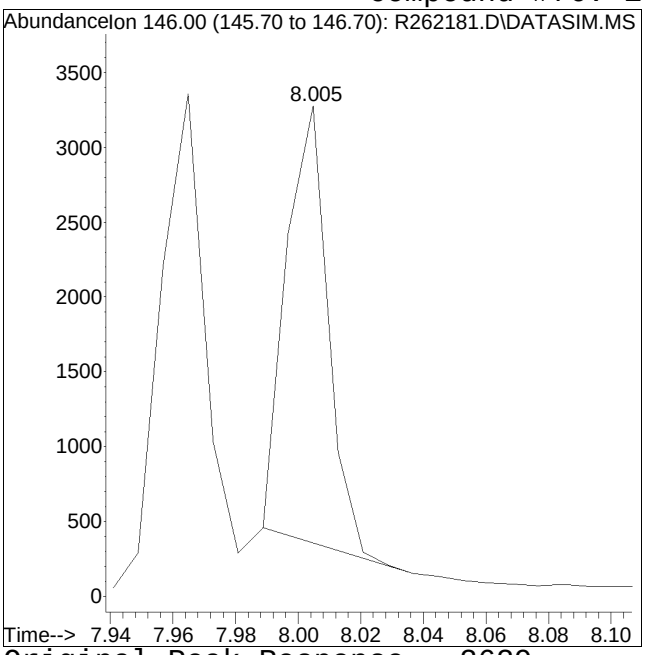
Manual Peak Response = 3295 M4

M4 = Poor automated baseline construction.

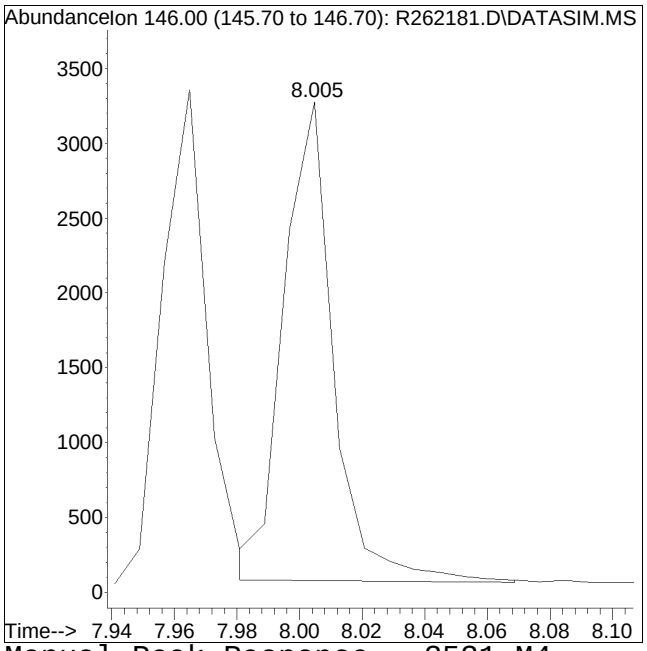
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 2629



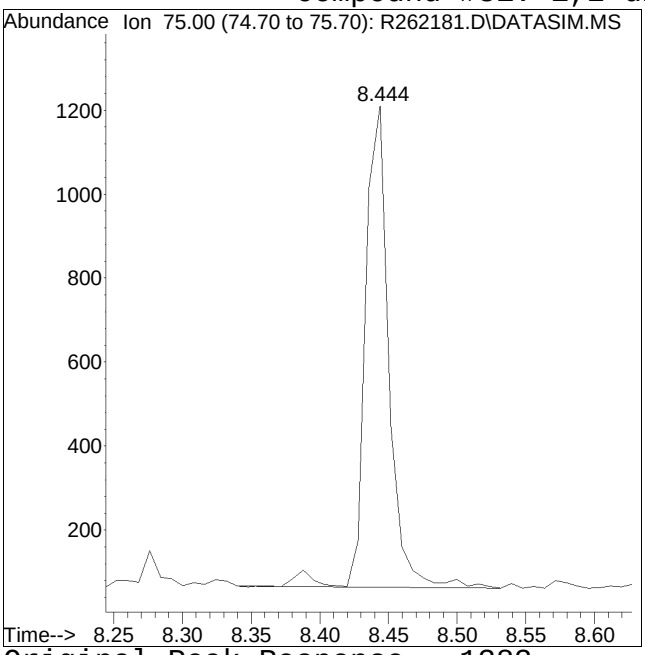
Manual Peak Response = 3531 M4

M4 = Poor automated baseline construction.

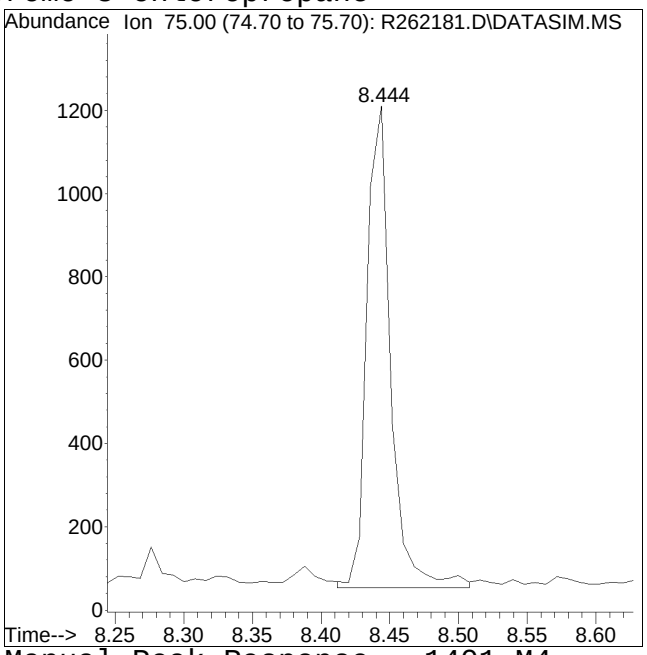
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262181.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:00 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 3/18/2025 12:17 pm

Compound #81: 1,2-dibromo-3-chloropropane



Original Peak Response = 1383



Manual Peak Response = 1401 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262182.D
Acq On : 14 Mar 2025 09:33 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.1
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	280175	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 104.14%			
33) 1,4-difluorobenzene	4.368	114	953760	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 101.22%			
51) chlorobenzene-D5	6.452	54	141116	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 97.82%			
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	5.544	98	438	0.006	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.06%#			
67) bromofluorobenzene	7.216	95	303	0.006	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.06%#			
Target Compounds						Qvalue
2) propylene	2.004	41	536	0.132	ppbV #	77
3) dichlorodifluoromethane	2.026	85	5506	0.106	ppbV	100
4) chloromethane	2.076	50	2033M4	0.111	ppbV	
5) Freon-114	2.109	85	7237	0.102	ppbV	99
6) vinyl chloride	2.147	62	2370	0.102	ppbV	95
7) 1,3-butadiene	2.186	54	1457M4	0.139	ppbV	
8) bromomethane	2.273	94	2555	0.107	ppbV	98
9) chloroethane	2.328	64	1375	0.108	ppbV #	70
10) ethanol	2.361	31	12800	1.111	ppbV	99
11) vinyl bromide	2.434	106	2933M4	0.142	ppbV	
12) acrolein	2.468	56	1622M4	0.137	ppbV	
13) acetone	2.507	43	27789	0.989	ppbV	98
14) trichlorofluoromethane	2.553	101	10051M4	0.107	ppbV	
15) isopropyl alcohol	2.570	45	17383	0.528	ppbV	100
16) acrylonitrile	2.632	53	2754M4	0.118	ppbV	
17) 1,1-dichloroethene	2.729	61	5761M4	0.101	ppbV	
18) tertiary butyl alcohol	2.743	59	8953	0.124	ppbV #	83
19) methylene chloride	2.757	49	5186M4	0.133	ppbV	
20) 3-chloropropene	2.796	41	3491	0.139	ppbV	98
21) carbon disulfide	2.848	76	10133	0.145	ppbV #	36
22) Freon 113	2.848	101	8254	0.105	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	5081	0.136	ppbV	99
24) 1,1-dichloroethane	3.131	63	6940	0.103	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262182.D
Acq On : 14 Mar 2025 09:33 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.1
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	9314	0.138	ppbV	#	4
26) vinyl acetate	3.193	43	7360M4	0.162	ppbV		
27) 2-butanone	3.290	43	3975	0.132	ppbV	#	90
28) cis-1,2-dichloroethene	3.443	61	2802	0.102	ppbV		97
29) Ethyl Acetate	3.570	61	791M6	0.153	ppbV		
30) chloroform	3.563	83	5172	0.106	ppbV	#	95
31) Tetrahydrofuran	3.749	42	1580	0.148	ppbV		91
32) 1,2-dichloroethane	3.871	62	3155	0.104	ppbV	#	91
34) hexane	3.540	57	2717	0.149	ppbV		73
36) 1,1,1-trichloroethane	3.985	97	5056	0.104	ppbV		99
37) benzene	4.180	78	6683	0.106	ppbV	#	82
38) carbon tetrachloride	4.255	117	5028	0.101	ppbV		96
39) cyclohexane	4.302	56	2450M4	0.129	ppbV		
40) Dibromomethane	4.538	93	3190	0.112	ppbV	#	98
41) 1,2-dichloropropane	4.566	63	2274	0.101	ppbV		96
42) bromodichloromethane	4.651	83	4864	0.138	ppbV		98
43) 1,4-dioxane	4.717	88	1302	0.131	ppbV		94
44) trichloroethene	4.679	130	3346	0.102	ppbV		99
45) 2,2,4-trimethylpentane	4.726	57	7881	0.131	ppbV		96
46) heptane	4.858	43	2562	0.133	ppbV		99
47) cis-1,3-dichloropropene	5.113	75	3245	0.096	ppbV	#	89
48) 4-methyl-2-pentanone	5.161	43	3396	0.120	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	2575	0.094	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	3001	0.101	ppbV		98
52) toluene	5.592	91	7840	0.100	ppbV		99
54) 2-hexanone	5.767	43	2768	0.104	ppbV		99
55) dibromochloromethane	5.783	129	4680	0.130	ppbV		99
56) 1,2-dibromoethane	5.903	107	4529	0.099	ppbV		98
57) tetrachloroethene	6.142	166	4077	0.098	ppbV	#	91
58) 1,1,1,2-tetrachloroethane	6.474	131	3505	0.099	ppbV	#	98
59) chlorobenzene	6.474	112	7154	0.104	ppbV	#	12
60) ethylbenzene	6.676	91	9648	0.091	ppbV		99
61) m+p-xylene	6.768	91	15568	0.180	ppbV		99
62) bromoform	6.768	173	4057	0.123	ppbV		96
63) styrene	6.943	104	5070	0.083	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.989	83	6486	0.099	ppbV		99
65) o-xylene	6.995	91	7515	0.090	ppbV		99
66) 1,2,3-Trichloropropane	7.053	75	4687	0.103	ppbV		96
68) isopropylbenzene	7.298	105	10555	0.091	ppbV		98
69) Bromobenzene	7.309	77	5622M6	0.110	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262182.D
Acq On : 14 Mar 2025 09:33 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.1
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Mar 18 12:17:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

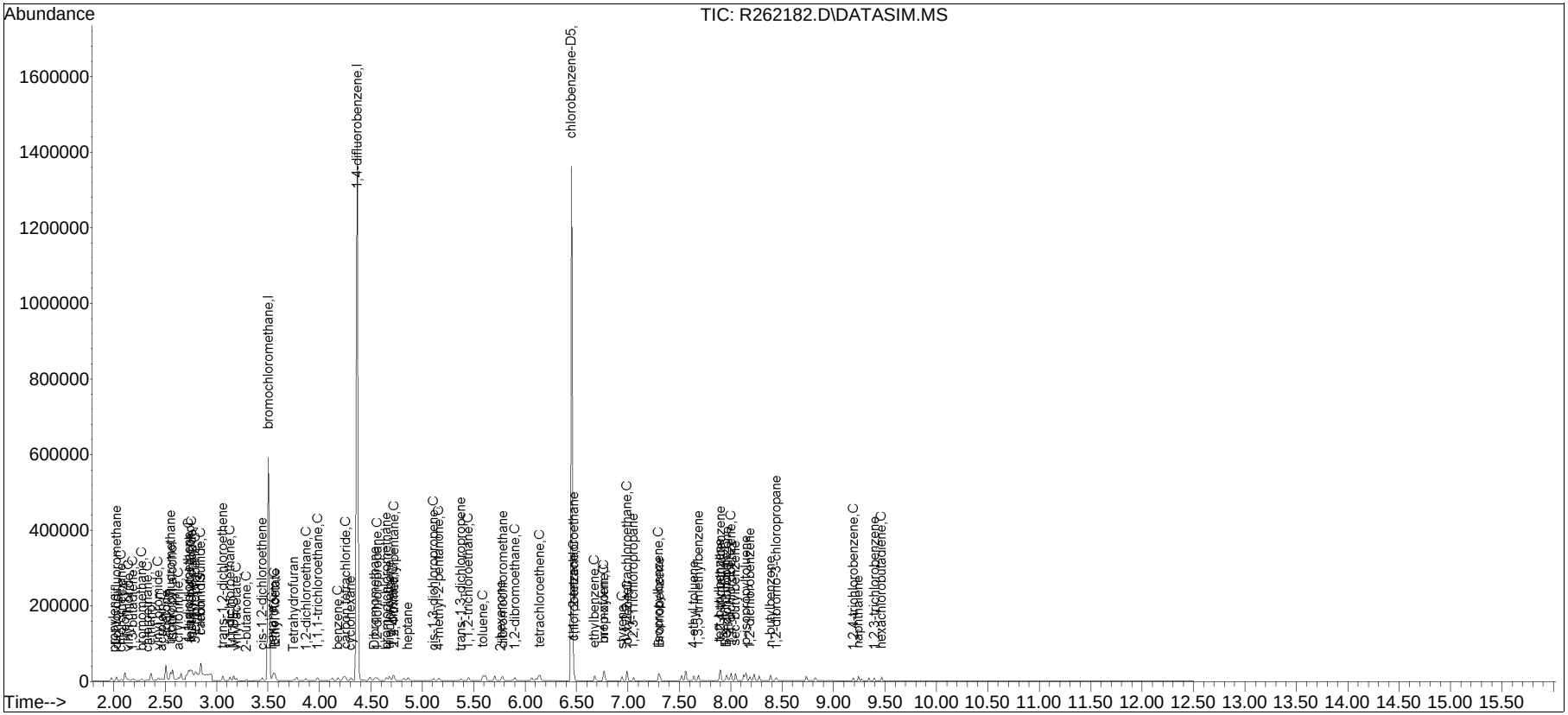
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	9078M4	0.110	ppbV		
71) 1,3,5-trimethylbenzene	7.686	105	7313M4	0.076	ppbV		
72) tert-butylbenzene	7.893	119	8740	0.081	ppbV		100
73) 1,2,4-trimethylbenzene	7.901	105	7735	0.076	ppbV		96
74) Benzyl Chloride	7.957	91	3811	0.089	ppbV		93
75) 1,3-dichlorobenzene	7.965	146	6687M6	0.084	ppbV		
76) 1,4-dichlorobenzene	8.005	146	6833M6	0.086	ppbV		
77) sec-butylbenzene	8.045	105	12150	0.081	ppbV		98
78) p-isopropyltoluene	8.149	119	10463	0.076	ppbV		97
79) 1,2-dichlorobenzene	8.189	146	6657	0.085	ppbV		95
80) n-butylbenzene	8.388	91	9676	0.078	ppbV		94
81) 1,2-dibromo-3-chloropr...	8.444	75	2846	0.087	ppbV	#	75
82) 1,2,4-trichlorobenzene	9.192	180	5163	0.075	ppbV		98
83) naphthalene	9.239	128	11088	0.071	ppbV		99
84) 1,2,3-trichlorobenzene	9.397	180	5142	0.061	ppbV		97
85) hexachlorobutadiene	9.467	225	4036	0.069	ppbV		93

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262182.D
Acq On : 14 Mar 2025 09:33 pm
Operator : AIRLAB26:APR
Sample : ITO15-SIMSTD0.1
Misc : WG2042597
ALS Vial : 5 Sample Multiplier: 1

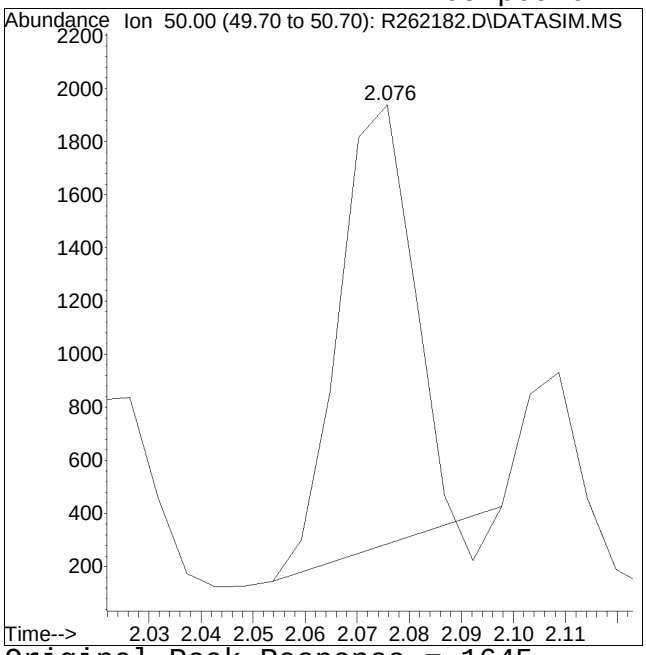
Quant Time: Mar 18 12:17:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration



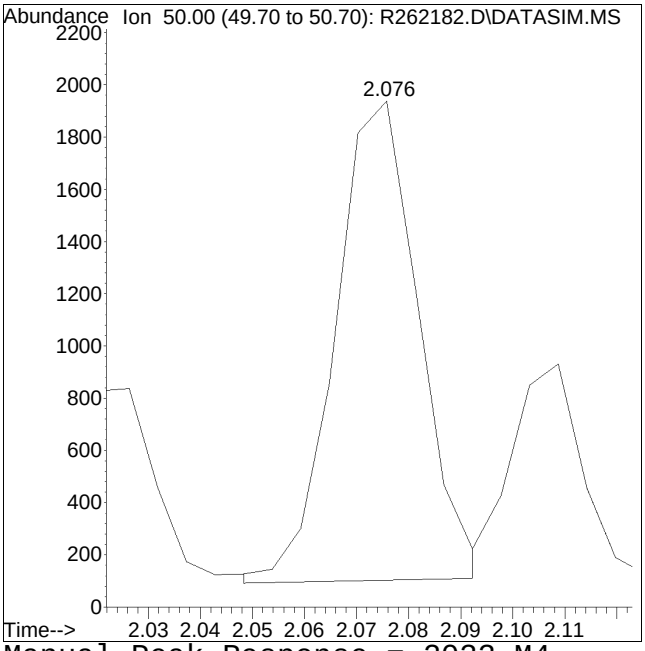
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #4: chloromethane



Original Peak Response = 1645



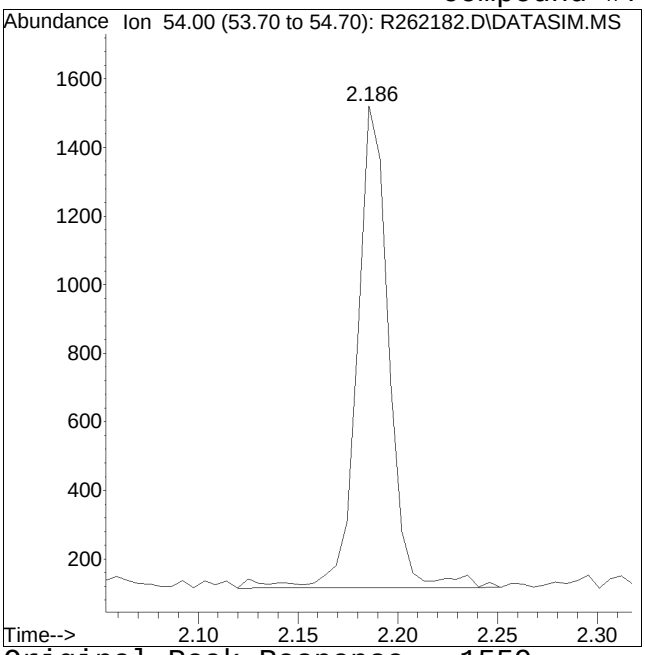
Manual Peak Response = 2033 M4

M4 = Poor automated baseline construction.

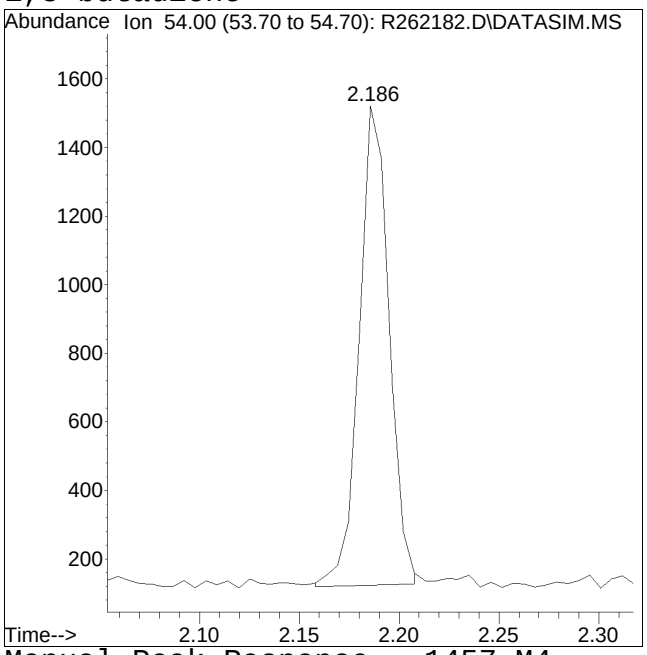
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #7: 1,3-butadiene



Original Peak Response = 1559



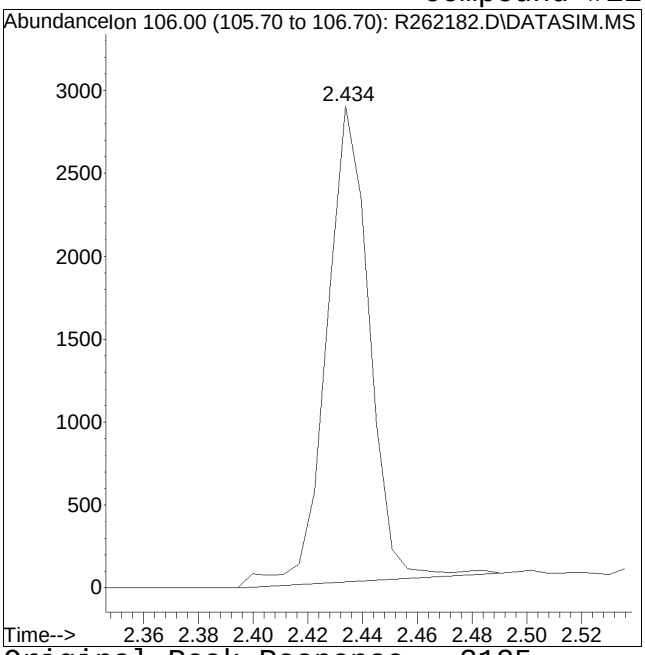
Manual Peak Response = 1457 M4

M4 = Poor automated baseline construction.

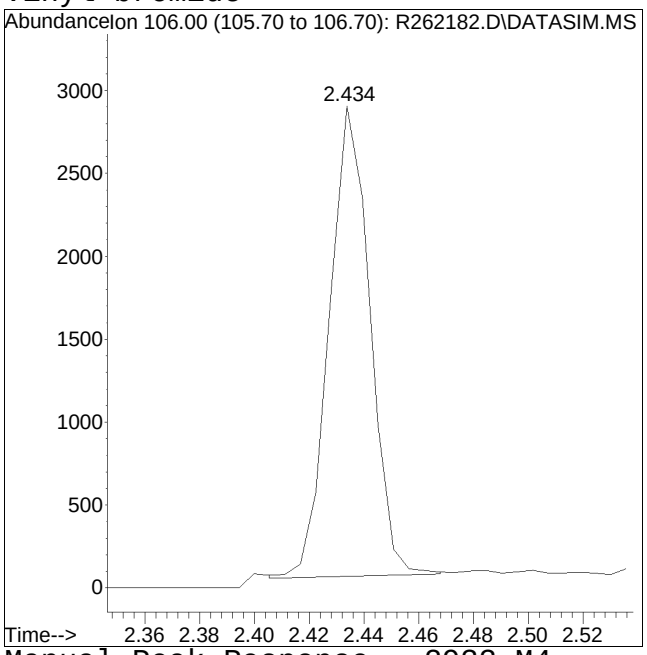
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #11: vinyl bromide



Original Peak Response = 3125



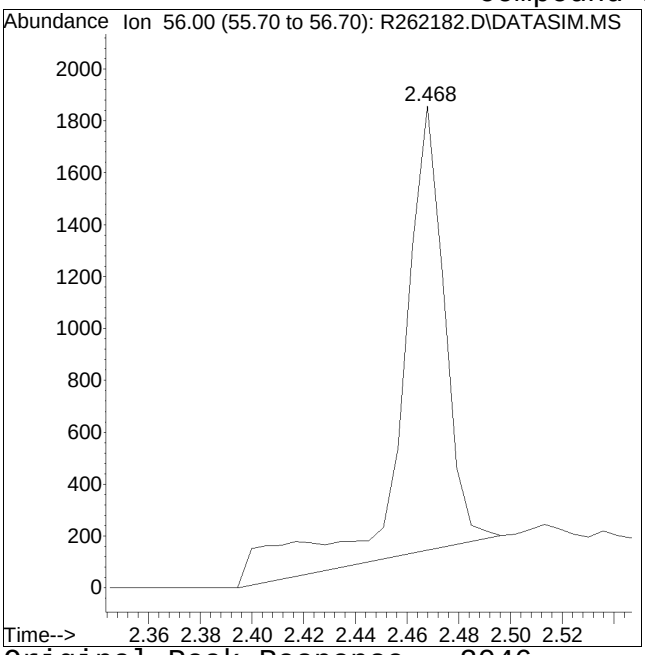
Manual Peak Response = 2933 M4

M4 = Poor automated baseline construction.

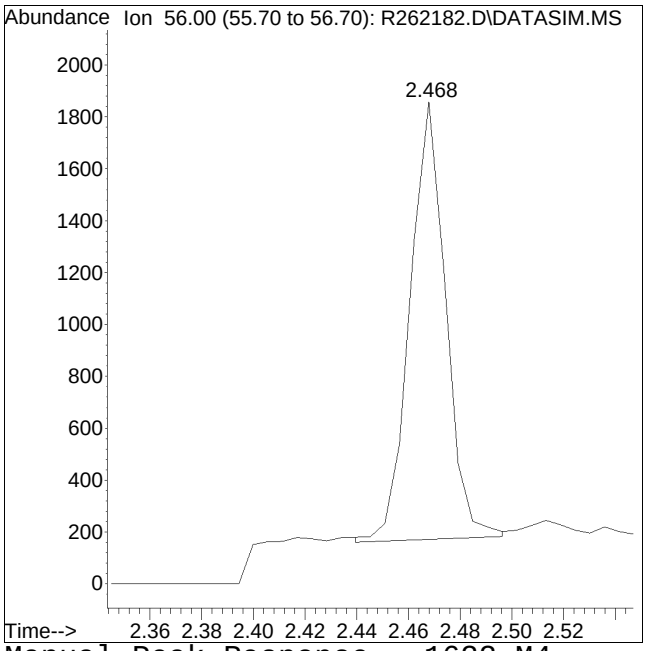
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #12: acrolein



Original Peak Response = 2046



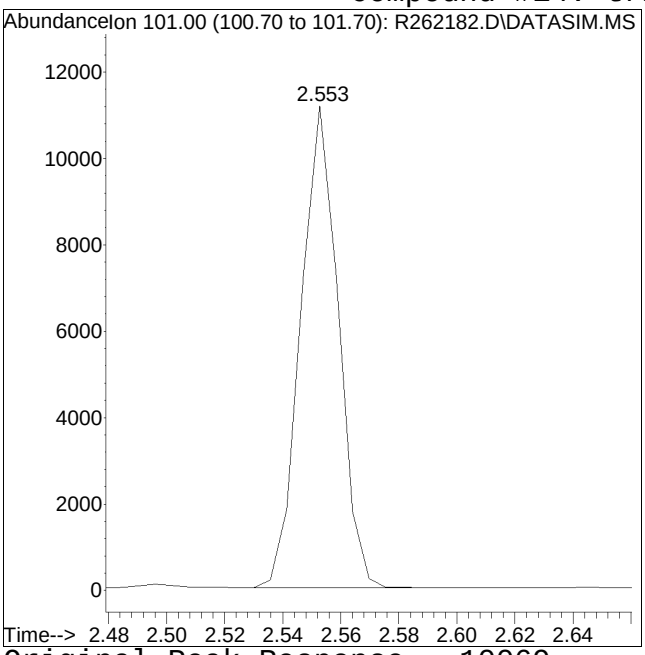
Manual Peak Response = 1622 M4

M4 = Poor automated baseline construction.

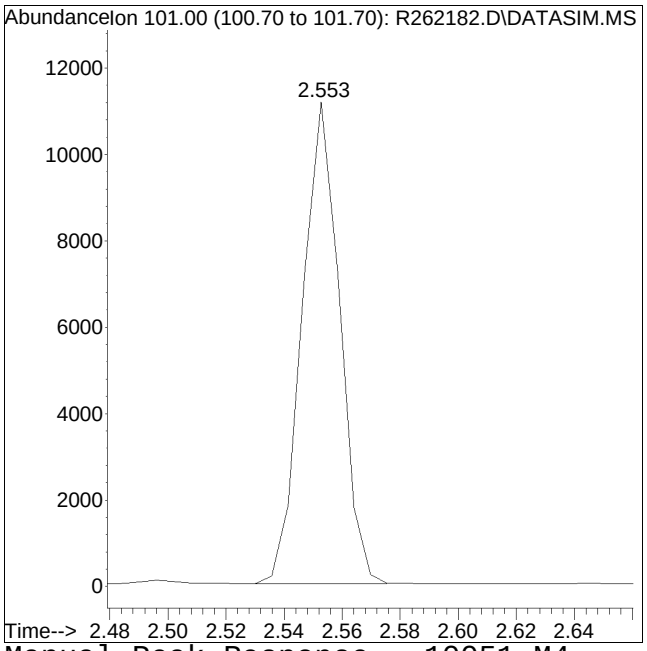
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #14: trichlorofluoromethane



Original Peak Response = 10069



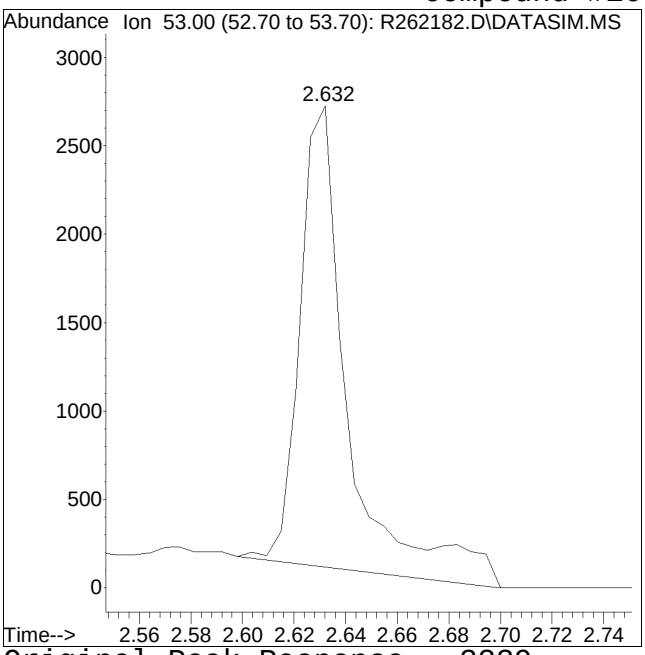
Manual Peak Response = 10051 M4

M4 = Poor automated baseline construction.

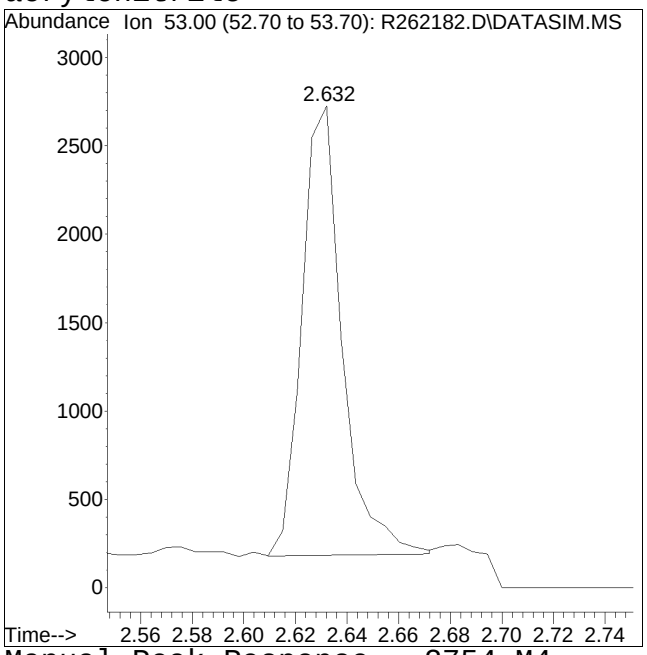
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #16: acrylonitrile



Original Peak Response = 3339



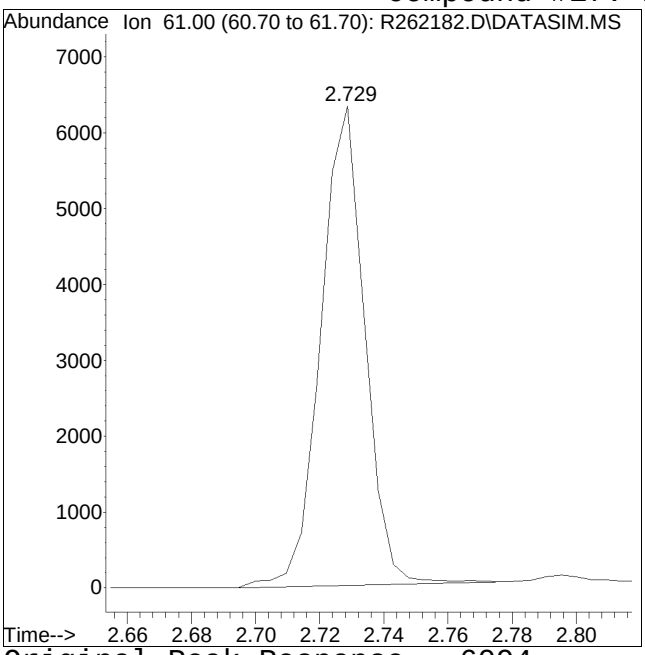
Manual Peak Response = 2754 M4

M4 = Poor automated baseline construction.

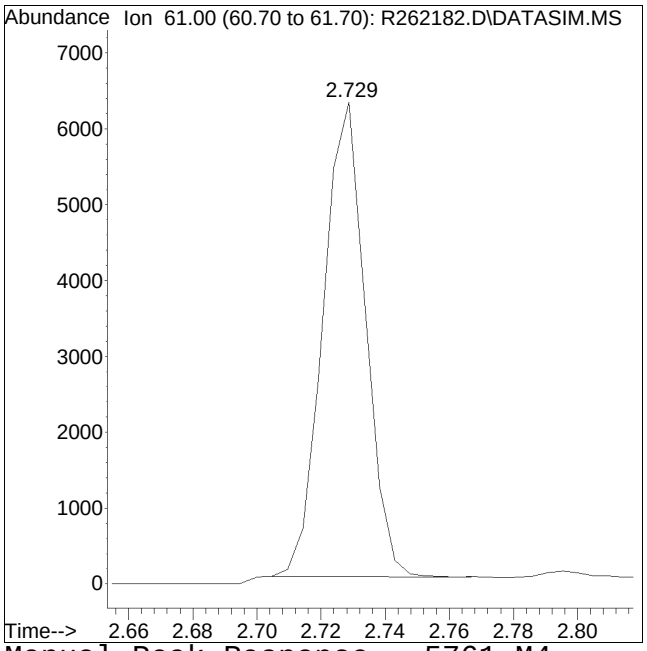
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 6094



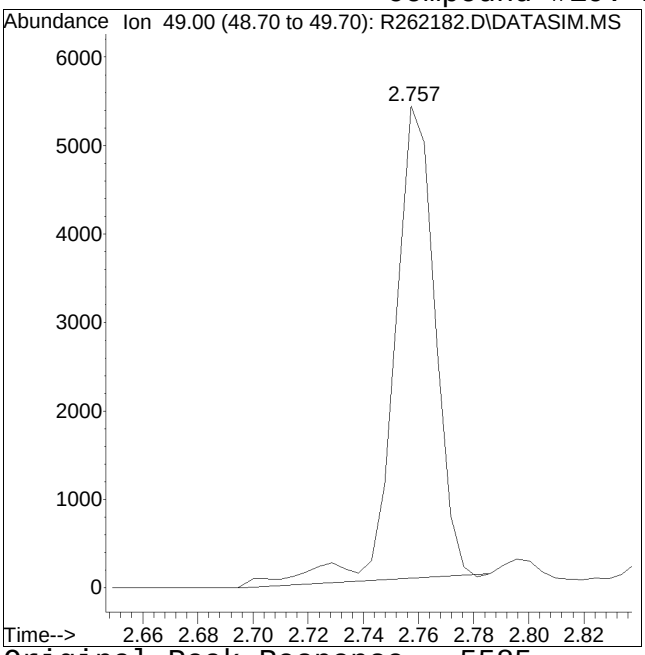
Manual Peak Response = 5761 M4

M4 = Poor automated baseline construction.

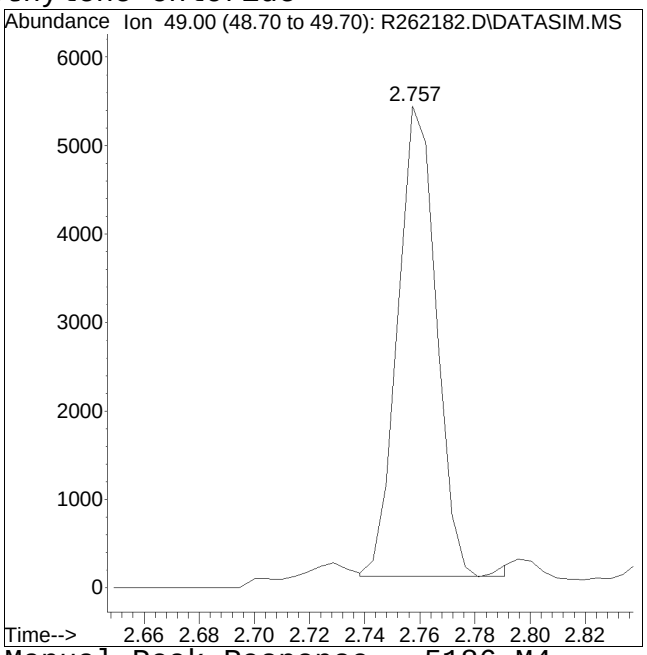
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #19: methylene chloride



Original Peak Response = 5585



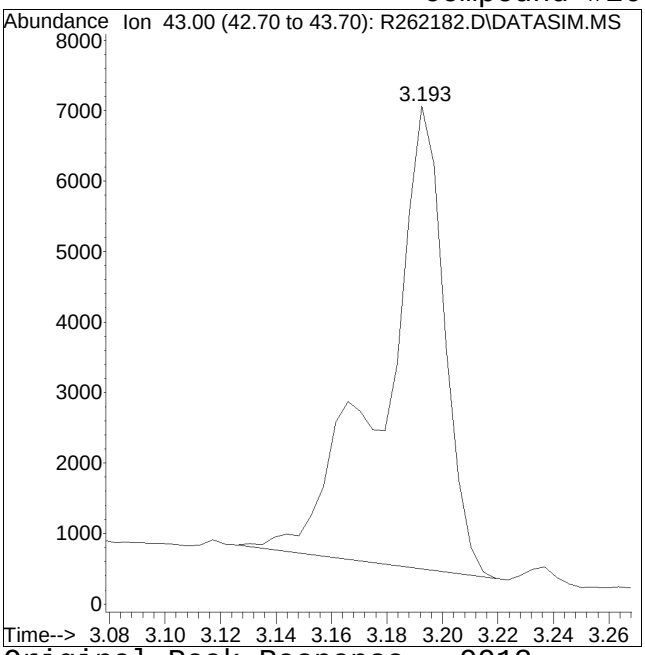
Manual Peak Response = 5186 M4

M4 = Poor automated baseline construction.

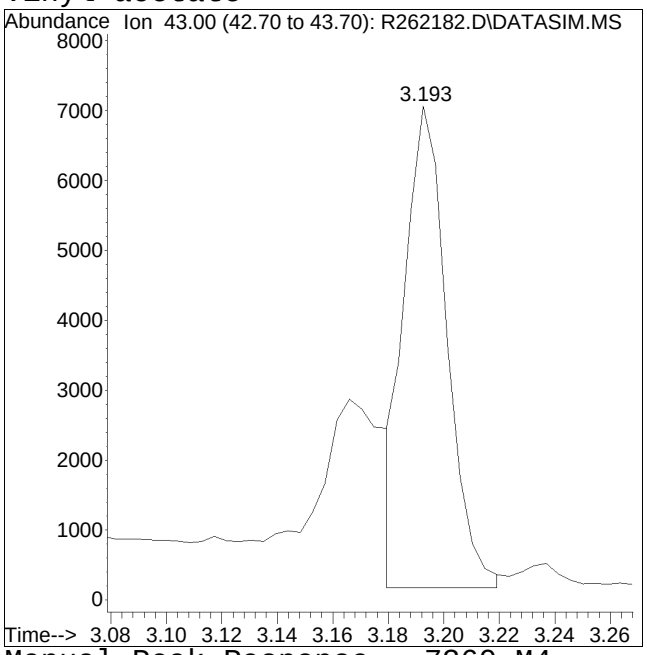
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #26: vinyl acetate



Original Peak Response = 9913



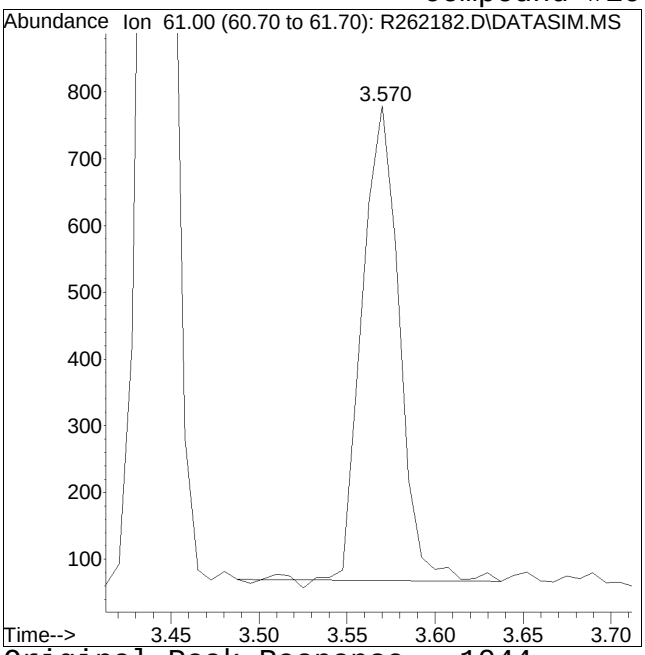
Manual Peak Response = 7360 M4

M4 = Poor automated baseline construction.

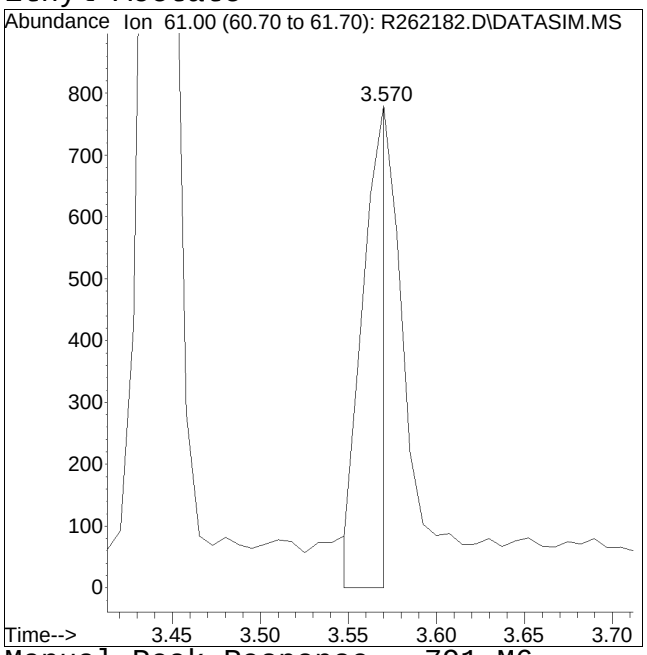
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #29: Ethyl Acetate



Original Peak Response = 1044



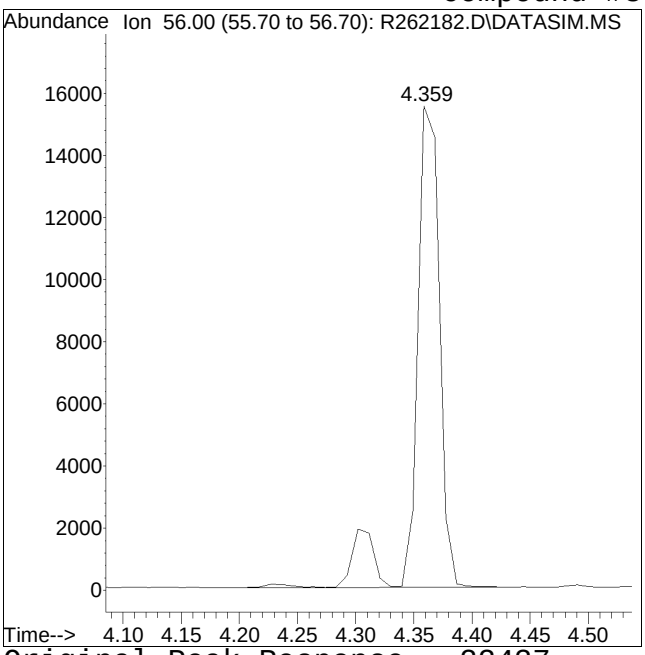
Manual Peak Response = 791 M6

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

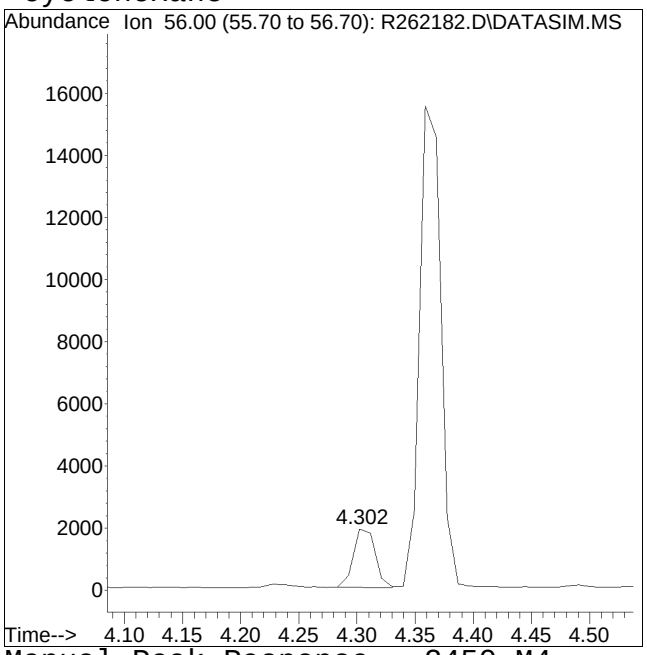
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #39: cyclohexane



Original Peak Response = 22437



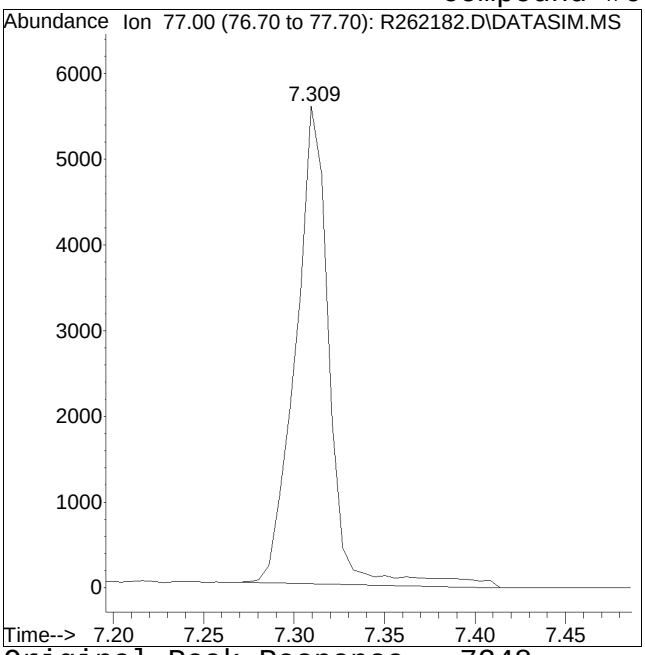
Manual Peak Response = 2450 M4

M4 = Poor automated baseline construction.

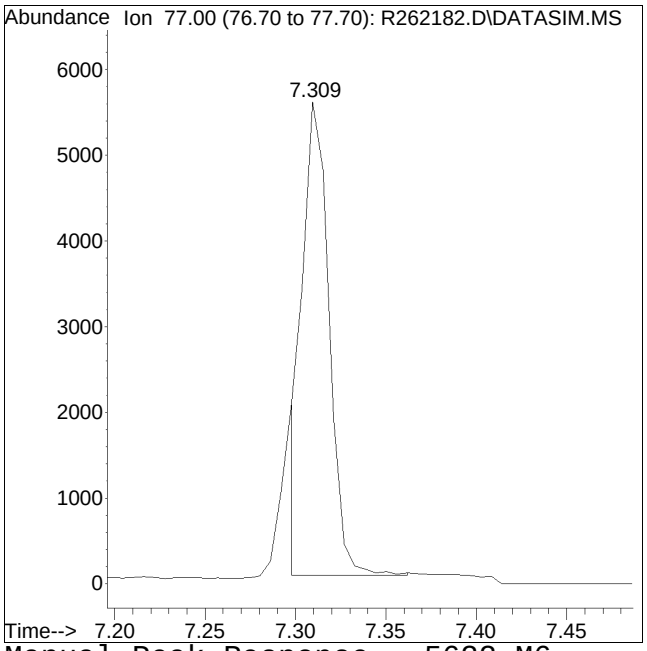
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #69: Bromobenzene



Original Peak Response = 7248



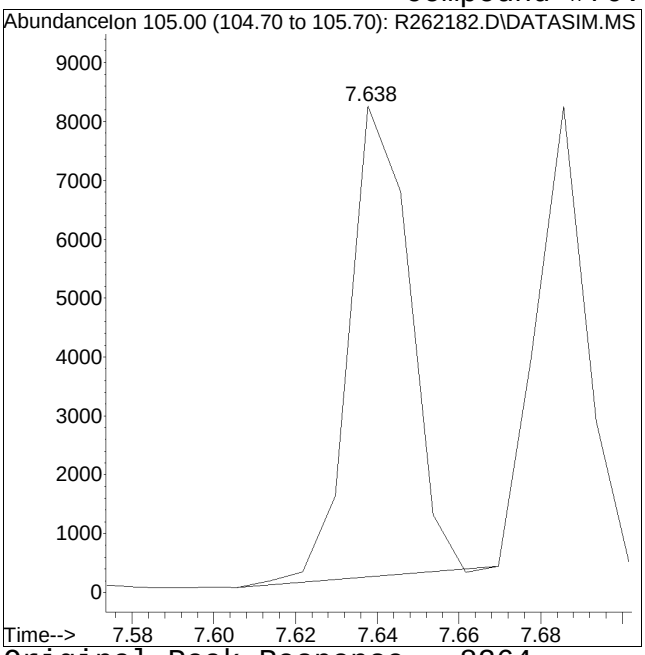
Manual Peak Response = 5622 M6

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

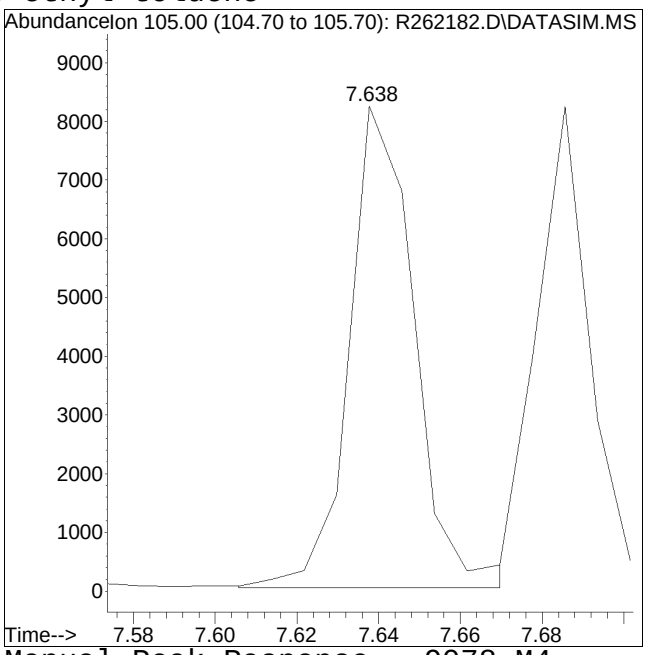
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 8264



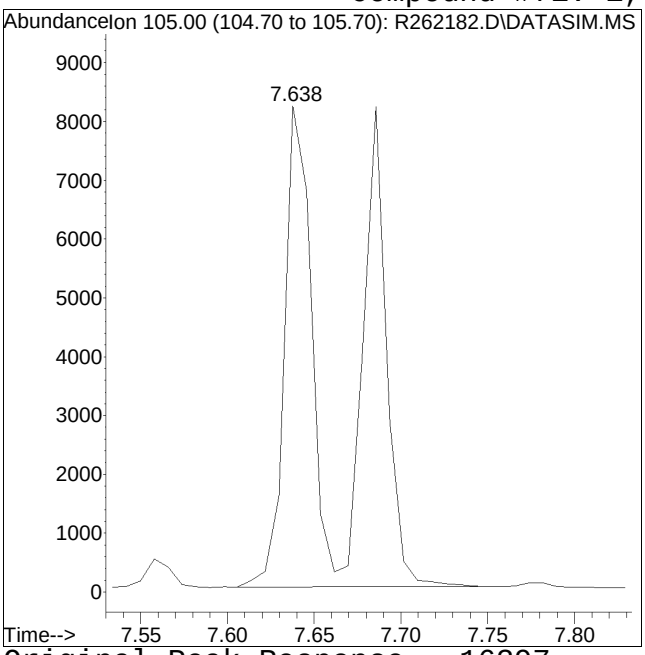
Manual Peak Response = 9078 M4

M4 = Poor automated baseline construction.

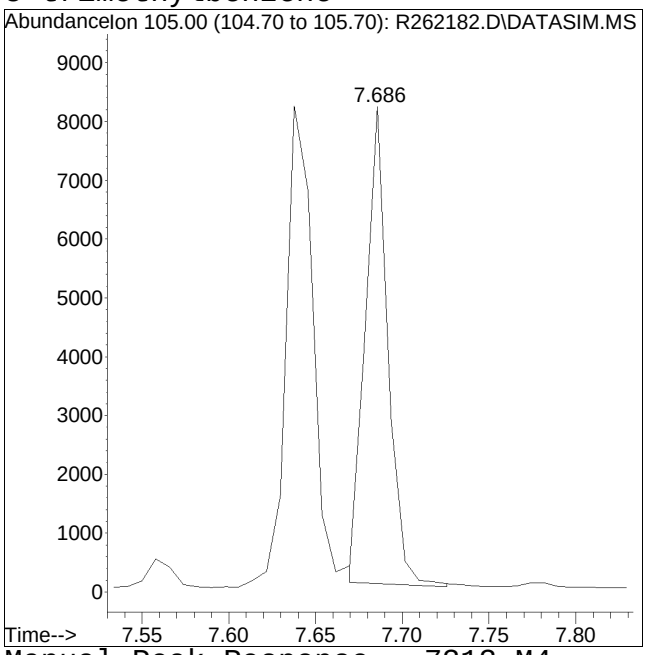
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 16397



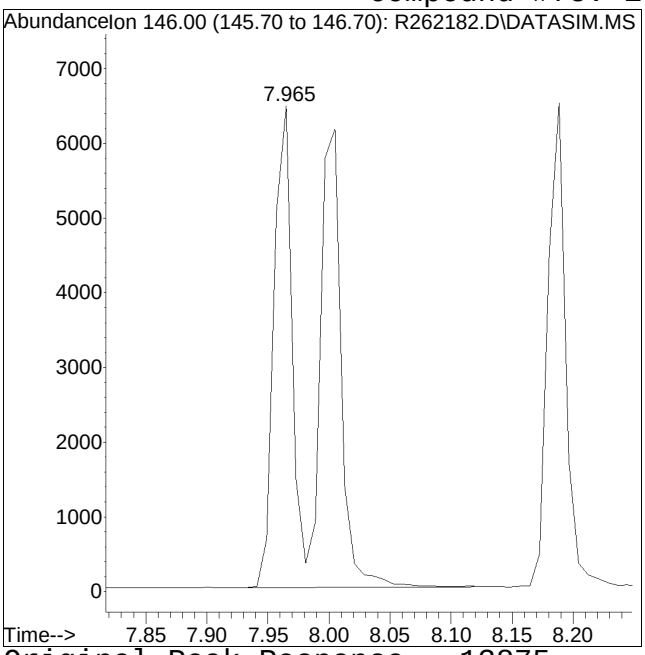
Manual Peak Response = 7313 M4

M4 = Poor automated baseline construction.

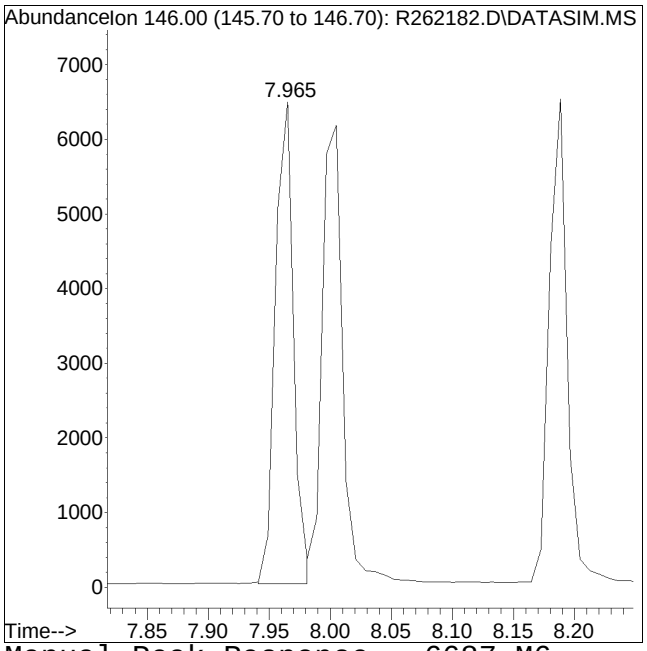
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 13875



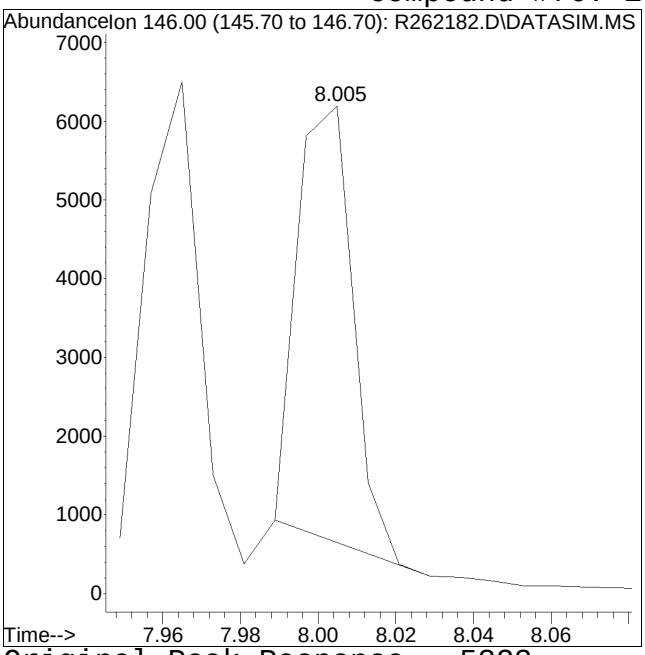
Manual Peak Response = 6687 M6

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

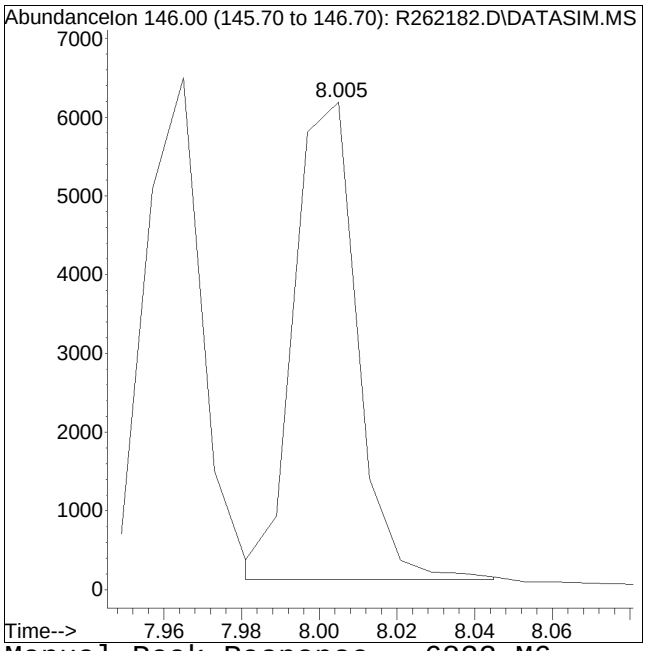
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262182.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 9:33 pm Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 3/18/2025 12:17 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 5323



Manual Peak Response = 6833 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 15:01:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 14:20:30 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.503	49	273833	10.000	ppbV		0.00
Standard Area = 269025			Recovery = 101.79%				
33) 1,4-difluorobenzene	4.368	114	909354	10.000	ppbV		0.00
Standard Area = 942251			Recovery = 96.51%				
51) chlorobenzene-D5	6.452	54	138264	10.000	ppbV		0.00
Standard Area = 144255			Recovery = 95.85%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	3.822	65	286301	9.816	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.16%				
53) toluene-D8	5.544	98	731587	9.904	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.04%				
67) bromofluorobenzene	7.216	95	458289	9.516	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.16%				
Target Compounds							Qvalue
2) propylene	2.004	41	921	0.185	ppbV	#	81
3) dichlorodifluoromethane	2.026	85	10003	0.198	ppbV		98
4) chloromethane	2.076	50	3495M4	0.203	ppbV		
5) Freon-114	2.109	85	13366	0.196	ppbV		98
6) vinyl chloride	2.147	62	4446	0.194	ppbV		99
7) 1,3-butadiene	2.191	54	2666	0.199	ppbV		98
8) bromomethane	2.273	94	4543	0.191	ppbV		99
9) chloroethane	2.328	64	2459	0.200	ppbV	#	80
10) ethanol	2.361	31	17847	1.550	ppbV		98
11) vinyl bromide	2.434	106	5599	0.232	ppbV		97
12) acrolein	2.468	56	2385M4	0.193	ppbV		
13) acetone	2.502	43	41681	1.259	ppbV		98
14) trichlorofluoromethane	2.553	101	18069	0.199	ppbV		100
15) isopropyl alcohol	2.570	45	22483	0.588	ppbV		99
16) acrylonitrile	2.626	53	4869M4	0.206	ppbV		
17) 1,1-dichloroethene	2.724	61	11178	0.205	ppbV		98
18) tertiary butyl alcohol	2.738	59	14654	0.217	ppbV	#	90
19) methylene chloride	2.757	49	8182M4	0.220	ppbV		
20) 3-chloropropene	2.795	41	6382	0.218	ppbV		100
21) carbon disulfide	2.843	76	17513	0.217	ppbV	#	1
22) Freon 113	2.843	101	15106	0.198	ppbV		99
23) trans-1,2-dichloroethene	3.060	61	9334	0.206	ppbV		100
24) 1,1-dichloroethane	3.126	63	12740	0.196	ppbV		95

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 15:01:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 14:20:30 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.161	73	17099	0.206	ppbV	#	21
26) vinyl acetate	3.192	43	12636M4	0.224	ppbV		
27) 2-butanone	3.285	43	6308	0.181	ppbV		95
28) cis-1,2-dichloroethene	3.443	61	5166	0.188	ppbV		98
29) Ethyl Acetate	3.570	61	2000	0.333	ppbV	#	1
30) chloroform	3.562	83	9073	0.184	ppbV		99
31) Tetrahydrofuran	3.742	42	2908	0.232	ppbV	#	86
32) 1,2-dichloroethane	3.863	62	6600	0.216	ppbV	#	1
34) hexane	3.540	57	4725	0.219	ppbV		76
36) 1,1,1-trichloroethane	3.977	97	9016	0.194	ppbV		98
37) benzene	4.179	78	12213	0.204	ppbV		99
38) carbon tetrachloride	4.255	117	8957	0.190	ppbV		98
39) cyclohexane	4.302	56	4660M3	0.218	ppbV		
40) Dibromomethane	4.538	93	5553	0.199	ppbV	#	98
41) 1,2-dichloropropane	4.566	63	4242	0.197	ppbV		97
42) bromodichloromethane	4.651	83	8693	0.206	ppbV		97
43) 1,4-dioxane	4.707	88	2545	0.218	ppbV		88
44) trichloroethene	4.679	130	5983	0.192	ppbV		99
45) 2,2,4-trimethylpentane	4.717	57	14440	0.212	ppbV		98
46) heptane	4.858	43	4439	0.206	ppbV		97
47) cis-1,3-dichloropropene	5.113	75	5882	0.186	ppbV	#	81
48) 4-methyl-2-pentanone	5.153	43	6265	0.202	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	4694	0.185	ppbV		96
50) 1,1,2-trichloroethane	5.448	97	5438	0.194	ppbV		99
52) toluene	5.591	91	15067	0.199	ppbV		99
54) 2-hexanone	5.767	43	5907	0.195	ppbV		96
55) dibromochloromethane	5.783	129	8174	0.188	ppbV		99
56) 1,2-dibromoethane	5.895	107	8175	0.184	ppbV		99
57) tetrachloroethene	6.142	166	7408	0.182	ppbV		93
58) 1,1,1,2-tetrachloroethane	6.474	131	6380	0.181	ppbV	#	99
59) chlorobenzene	6.474	112	12530	0.184	ppbV	#	50
60) ethylbenzene	6.676	91	17271	0.177	ppbV		100
61) m+p-xylene	6.763	91	28395	0.359	ppbV		98
62) bromoform	6.768	173	6807	0.175	ppbV		97
63) styrene	6.943	104	8917	0.166	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.989	83	11515	0.183	ppbV		99
65) o-xylene	6.989	91	13284	0.176	ppbV		99
66) 1,2,3-Trichloropropane	7.053	75	8339	0.187	ppbV		96
68) isopropylbenzene	7.298	105	19641	0.182	ppbV		99
69) Bromobenzene	7.309	77	13364	0.244	ppbV	#	68

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 15:01:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 14:20:30 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

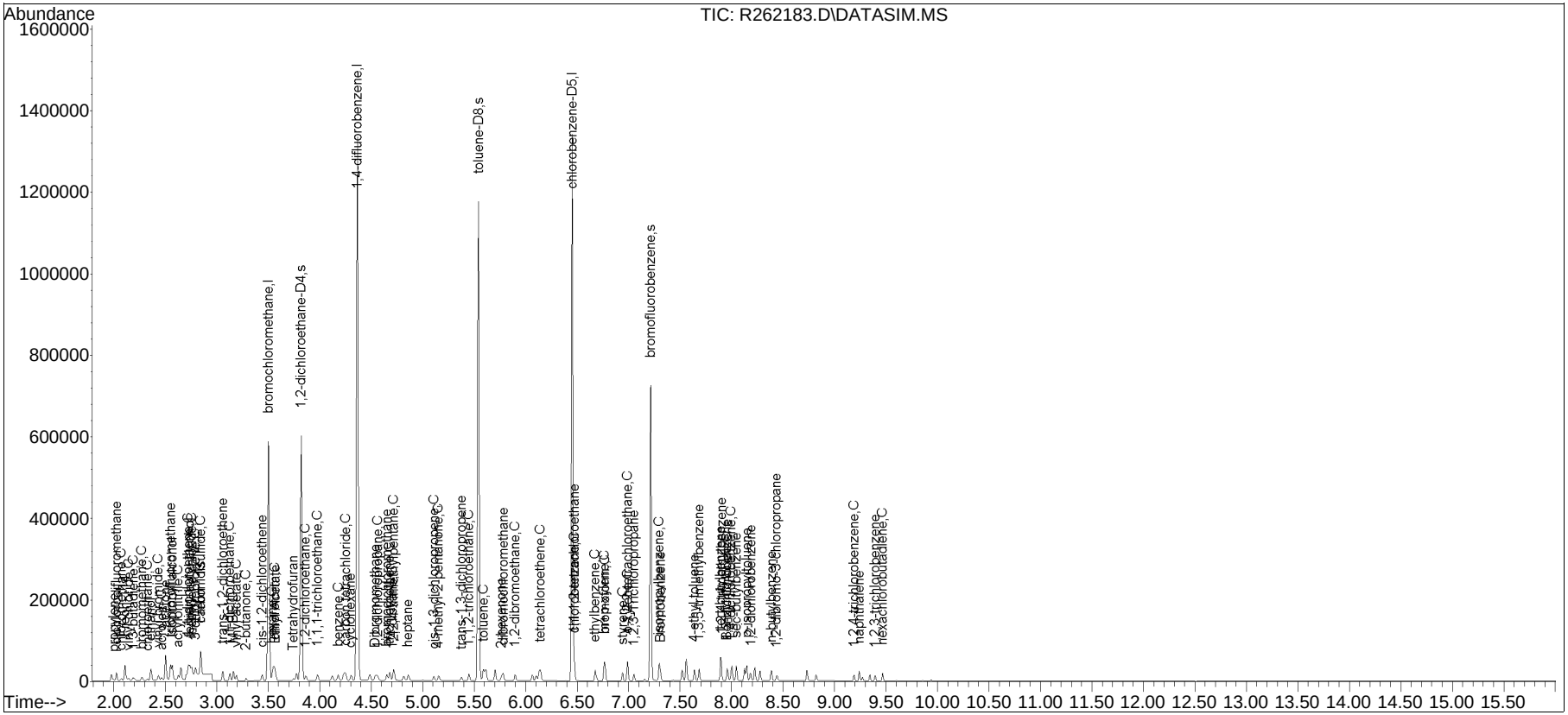
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.638	105	16371M4	0.185	ppbV	
71) 1,3,5-trimethylbenzene	7.685	105	14401M4	0.176	ppbV	
72) tert-butylbenzene	7.893	119	16245	0.166	ppbV	100
73) 1,2,4-trimethylbenzene	7.901	105	14329	0.167	ppbV	97
74) Benzyl Chloride	7.957	91	7152	0.144	ppbV	99
75) 1,3-dichlorobenzene	7.957	146	12290M4	0.175	ppbV	
76) 1,4-dichlorobenzene	7.997	146	12661M4	0.173	ppbV	
77) sec-butylbenzene	8.045	105	22932	0.172	ppbV	99
78) p-isopropyltoluene	8.148	119	19559	0.160	ppbV	98
79) 1,2-dichlorobenzene	8.188	146	12081	0.174	ppbV	97
80) n-butylbenzene	8.388	91	17384	0.160	ppbV	98
81) 1,2-dibromo-3-chloropr...	8.436	75	5025	0.167	ppbV #	78
82) 1,2,4-trichlorobenzene	9.192	180	9139	0.152	ppbV	97
83) naphthalene	9.239	128	19652	0.148	ppbV	99
84) 1,2,3-trichlorobenzene	9.396	180	8294	0.132	ppbV	97
85) hexachlorobutadiene	9.467	225	6916	0.137	ppbV	92

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262183.D
Acq On : 14 Mar 2025 10:06 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.2
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 19 15:01:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 14:20:30 2025
Response via : Initial Calibration

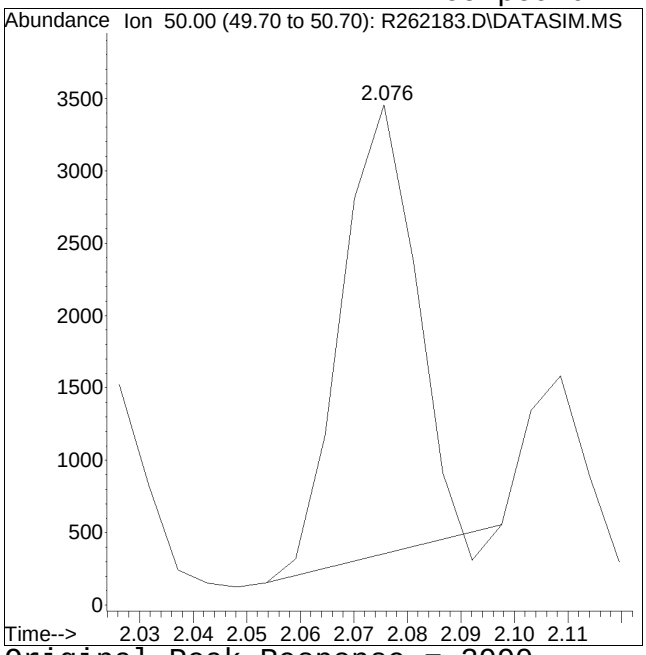


Manual Integration Report

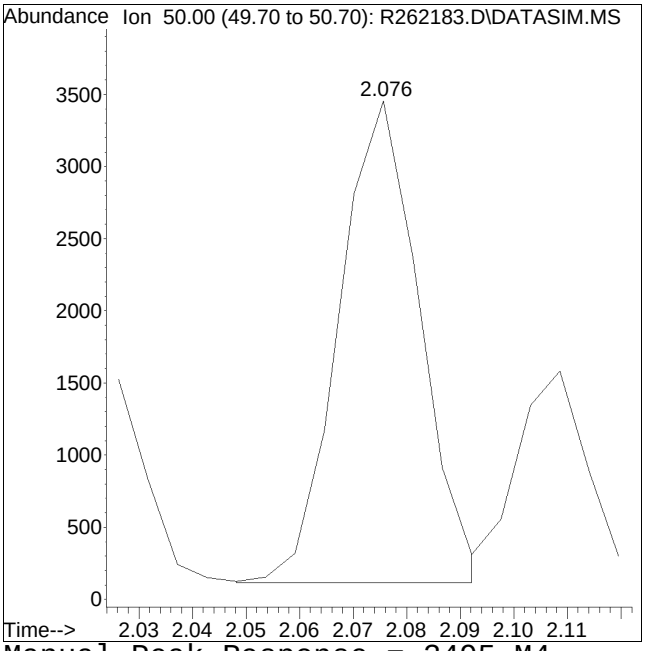
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262183.D
Date Inj'd : 3/14/2025 10:06 pm
Sample : ITO15-LLSTD0.2

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/19/2025 3:01 pm

Compound #4: chloromethane



Original Peak Response = 2990



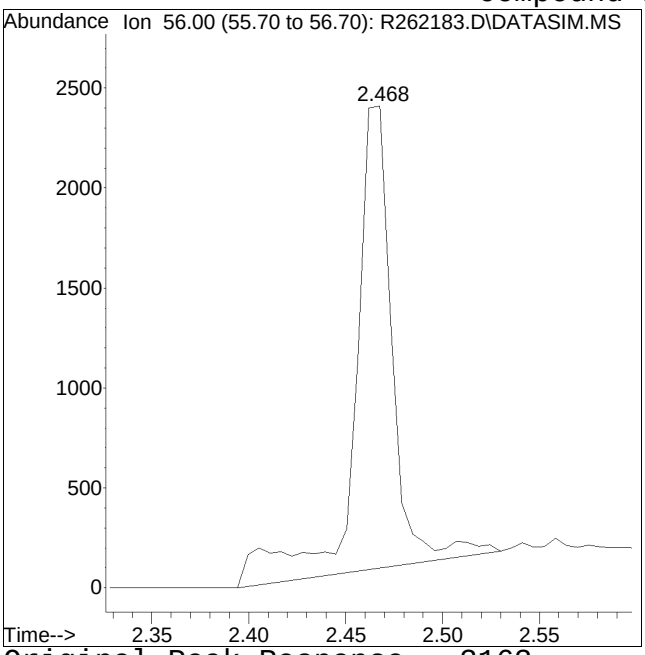
Manual Peak Response = 3495 M4

M4 = Poor automated baseline construction.

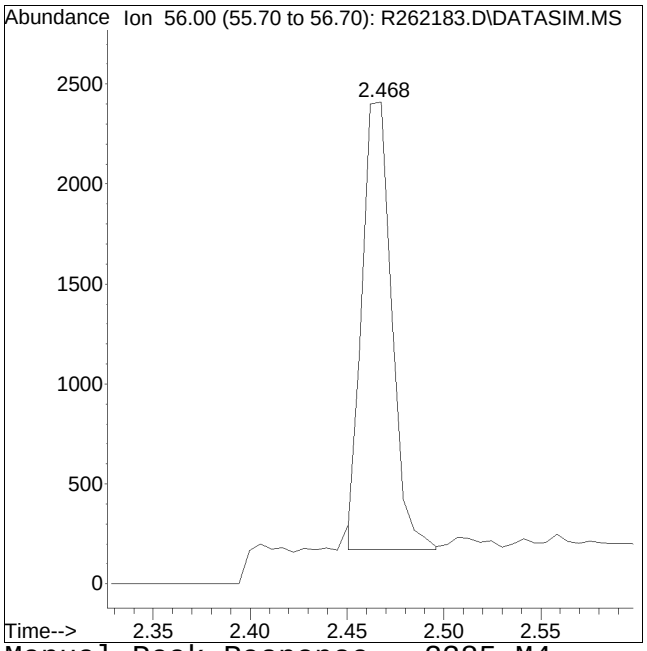
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #12: acrolein



Original Peak Response = 3163



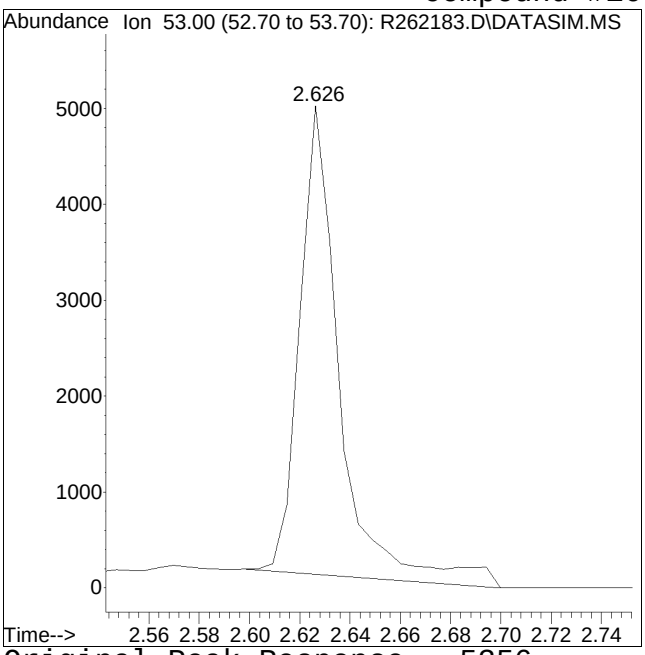
Manual Peak Response = 2385 M4

M4 = Poor automated baseline construction.

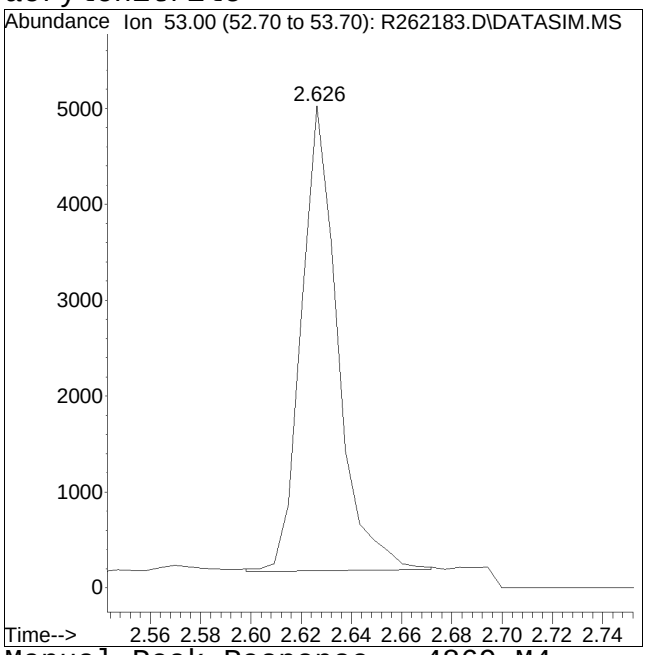
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #16: acrylonitrile



Original Peak Response = 5356



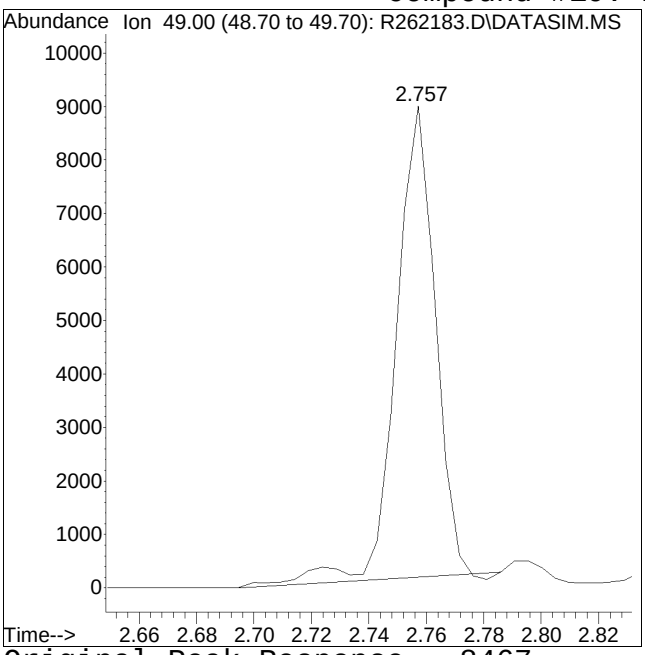
Manual Peak Response = 4869 M4

M4 = Poor automated baseline construction.

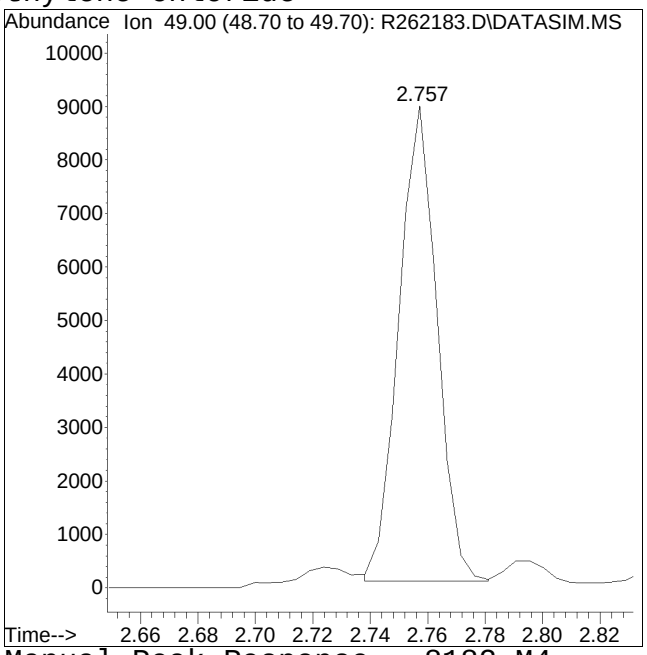
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #19: methylene chloride



Original Peak Response = 8467



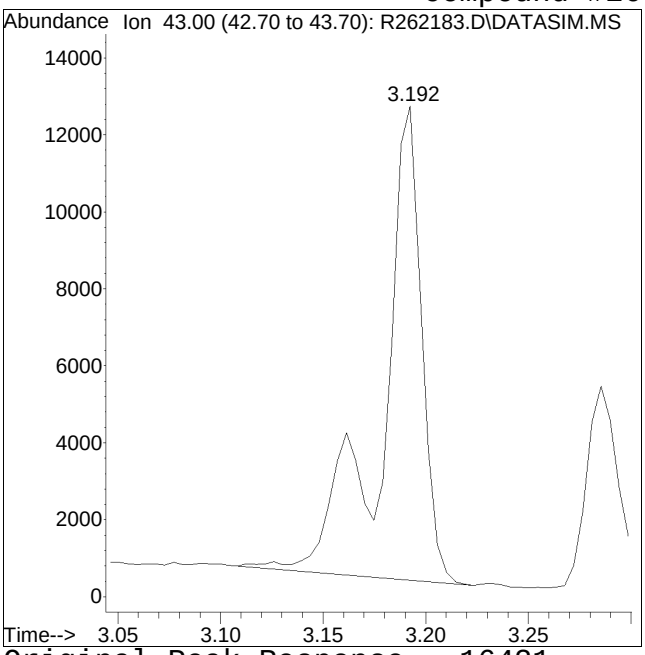
Manual Peak Response = 8182 M4

M4 = Poor automated baseline construction.

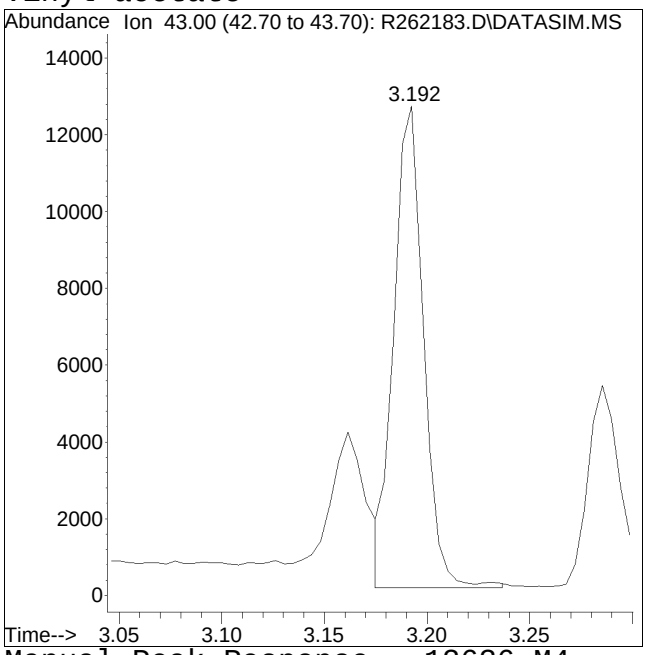
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #26: vinyl acetate



Original Peak Response = 16421



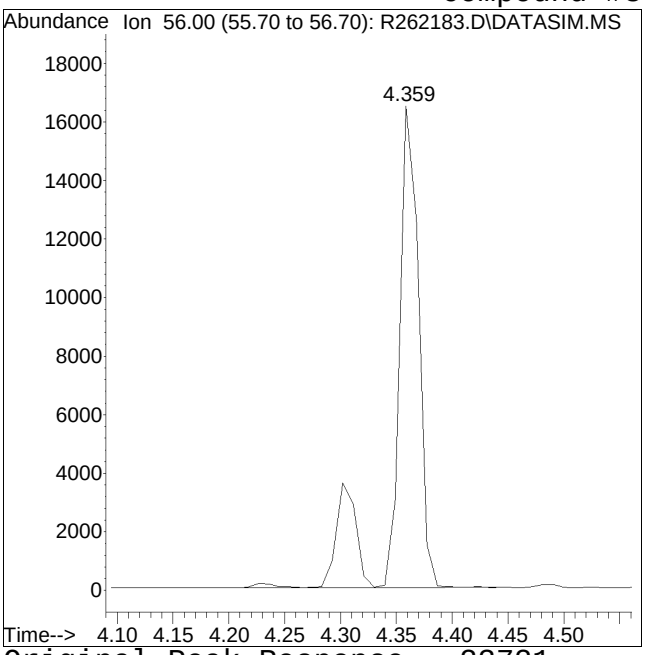
Manual Peak Response = 12636 M4

M4 = Poor automated baseline construction.

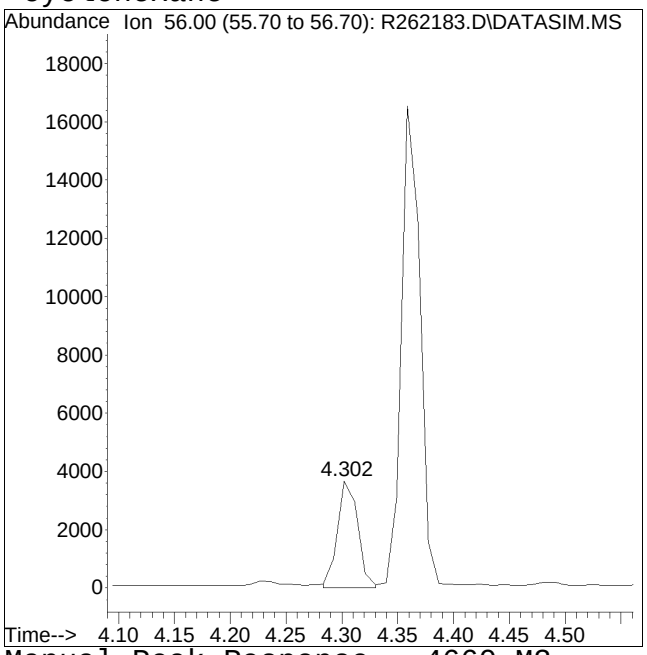
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #39: cyclohexane



Original Peak Response = 23721



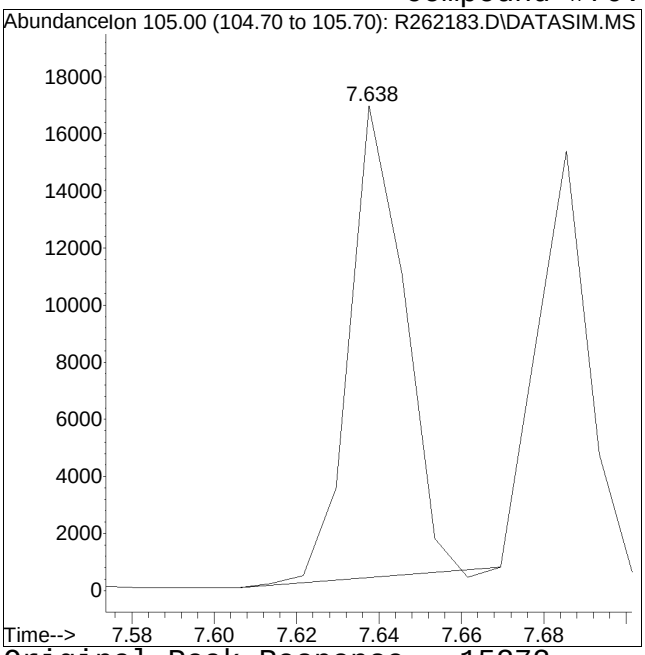
Manual Peak Response = 4660 M3

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.

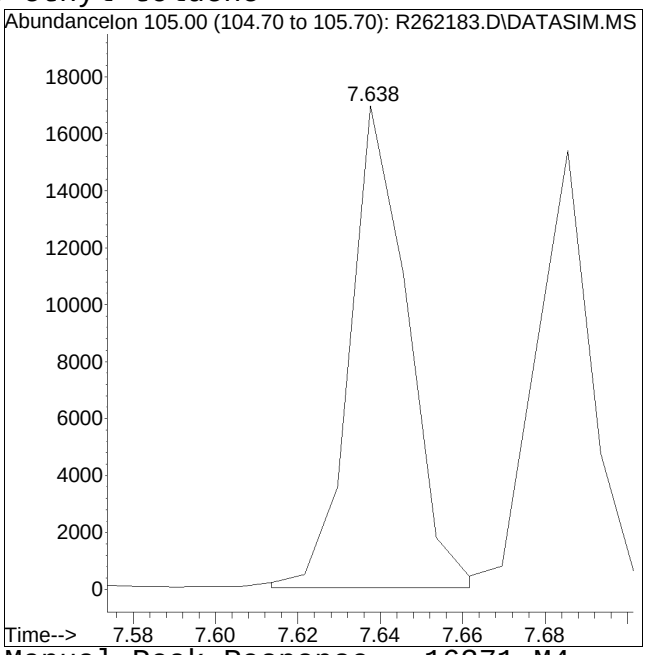
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 15272



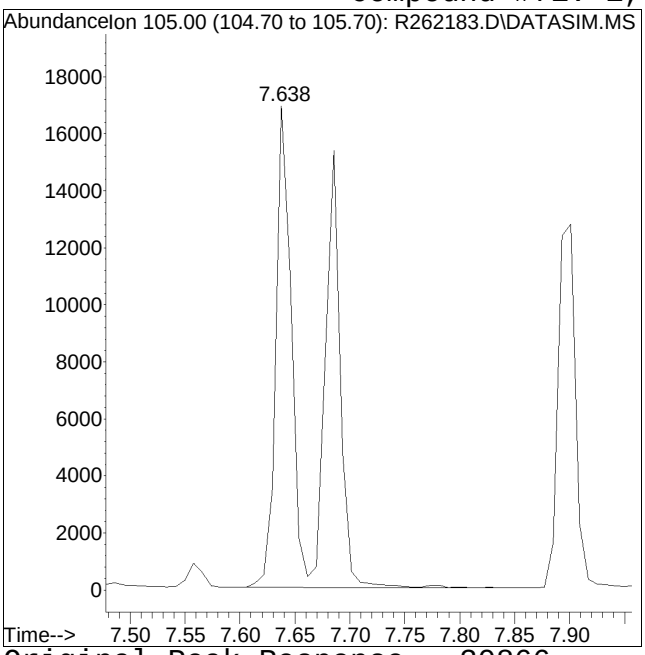
Manual Peak Response = 16371 M4

M4 = Poor automated baseline construction.

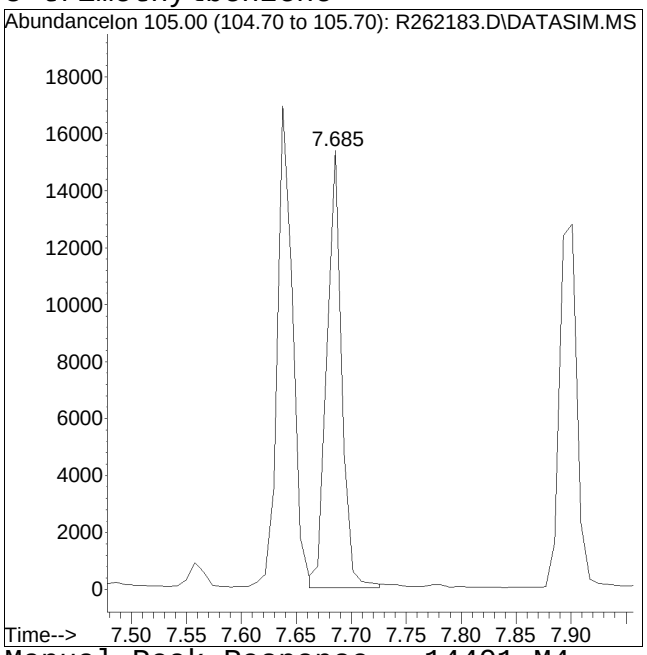
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 30866



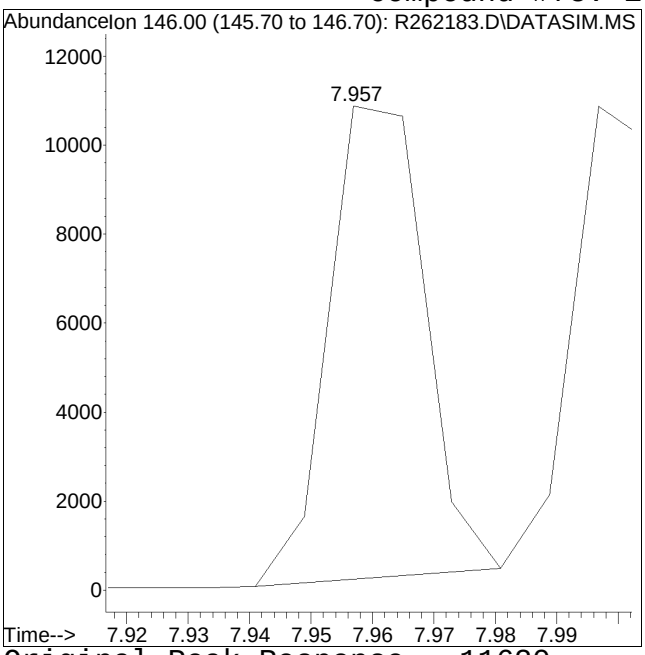
Manual Peak Response = 14401 M4

M4 = Poor automated baseline construction.

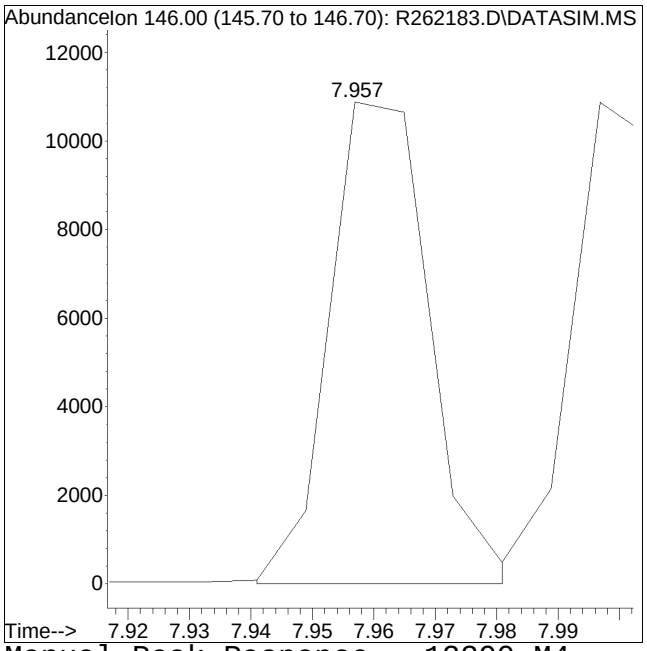
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 11620



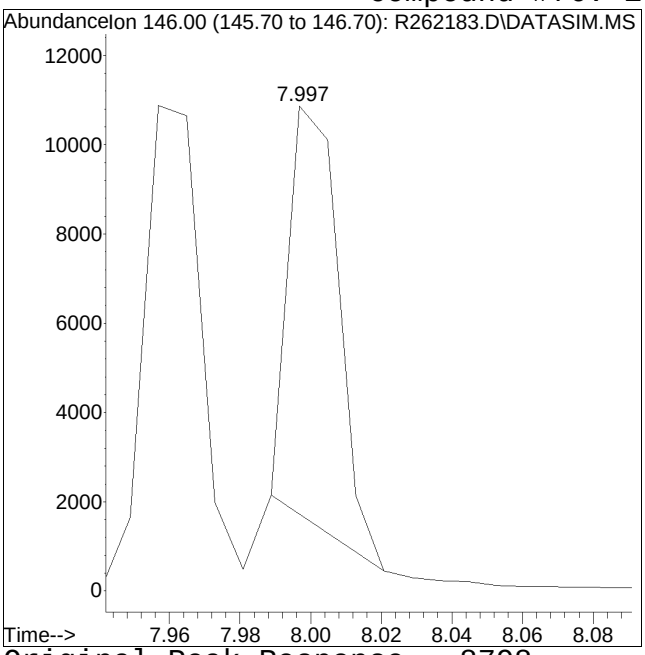
Manual Peak Response = 12290 M4

M4 = Poor automated baseline construction.

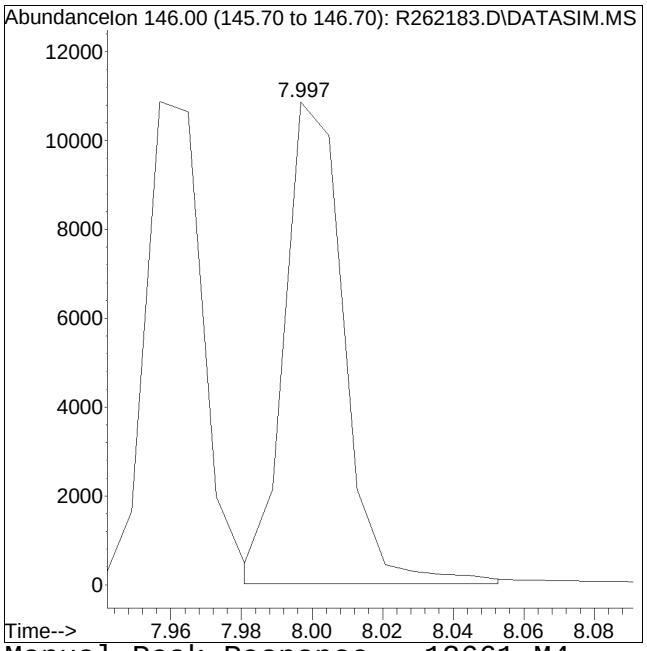
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262183.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:06 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 3/19/2025 3:01 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 8798



Manual Peak Response = 12661 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	274871	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 102.17%			
33) 1,4-difluorobenzene	4.368	114	915989	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 97.21%			
51) chlorobenzene-D5	6.452	54	140815	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 97.62%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	288316	9.969	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.69%			
53) toluene-D8	5.544	98	732964	9.847	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.47%			
67) bromofluorobenzene	7.216	95	468519	9.306	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.06%			
Target Compounds						Qvalue
2) propylene	2.004	41	1938M4	0.488	ppbV	
3) dichlorodifluoromethane	2.026	85	24596	0.483	ppbV	100
4) chloromethane	2.076	50	8631M4	0.482	ppbV	
5) Freon-114	2.109	85	33164	0.477	ppbV	100
6) vinyl chloride	2.147	62	11171	0.489	ppbV	100
7) 1,3-butadiene	2.191	54	6622	0.645	ppbV	94
8) bromomethane	2.273	94	11446	0.488	ppbV	99
9) chloroethane	2.328	64	6182	0.493	ppbV	94
10) ethanol	2.361	31	33698	2.981	ppbV	100
11) vinyl bromide	2.434	106	13167	0.651	ppbV	100
12) acrolein	2.468	56	5622M4	0.486	ppbV	
13) acetone	2.502	43	93555	3.393	ppbV #	100
14) trichlorofluoromethane	2.553	101	45052	0.490	ppbV	99
15) isopropyl alcohol	2.570	45	53039	1.644	ppbV	100
16) acrylonitrile	2.626	53	12623	0.550	ppbV	96
17) 1,1-dichloroethene	2.729	61	27349	0.488	ppbV	99
18) tertiary butyl alcohol	2.743	59	35599	0.503	ppbV	96
19) methylene chloride	2.757	49	19838	0.520	ppbV	99
20) 3-chloropropene	2.795	41	15800	0.640	ppbV	100
21) carbon disulfide	2.848	76	44211	0.644	ppbV #	87
22) Freon 113	2.848	101	37600	0.486	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	23145	0.630	ppbV	100
24) 1,1-dichloroethane	3.130	63	32011	0.483	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.161	73	42256	0.639	ppbV	#	28
26) vinyl acetate	3.192	43	27703M6	0.620	ppbV		
27) 2-butanone	3.285	43	18895	0.642	ppbV		99
28) cis-1,2-dichloroethene	3.443	61	12795	0.473	ppbV		97
29) Ethyl Acetate	3.570	61	3660M6	0.722	ppbV		
30) chloroform	3.562	83	22665	0.472	ppbV		99
31) Tetrahydrofuran	3.742	42	6255M6	0.598	ppbV		
32) 1,2-dichloroethane	3.871	62	14861	0.500	ppbV	#	71
34) hexane	3.540	57	11542	0.658	ppbV		81
36) 1,1,1-trichloroethane	3.985	97	22672	0.485	ppbV		98
37) benzene	4.179	78	29593	0.488	ppbV		97
38) carbon tetrachloride	4.255	117	23240	0.488	ppbV		97
39) cyclohexane	4.302	56	11093	0.607	ppbV		98
40) Dibromomethane	4.538	93	13735	0.502	ppbV	#	98
41) 1,2-dichloropropane	4.566	63	10531	0.487	ppbV		98
42) bromodichloromethane	4.651	83	21046	0.621	ppbV		99
43) 1,4-dioxane	4.707	88	5813	0.609	ppbV		99
44) trichloroethene	4.688	130	15002	0.474	ppbV		99
45) 2,2,4-trimethylpentane	4.717	57	36210	0.628	ppbV		98
46) heptane	4.858	43	11084	0.599	ppbV		99
47) cis-1,3-dichloropropene	5.113	75	15087	0.464	ppbV		92
48) 4-methyl-2-pentanone	5.152	43	15647	0.576	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	11547	0.439	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	13657	0.478	ppbV		98
52) toluene	5.591	91	36892	0.471	ppbV		99
54) 2-hexanone	5.759	43	14420	0.542	ppbV		97
55) dibromochloromethane	5.783	129	21007	0.584	ppbV		99
56) 1,2-dibromoethane	5.895	107	21047	0.460	ppbV		100
57) tetrachloroethene	6.142	166	19047	0.457	ppbV		98
58) 1,1,1,2-tetrachloroethane	6.468	131	16144	0.457	ppbV	#	100
59) chlorobenzene	6.474	112	32118	0.466	ppbV	#	82
60) ethylbenzene	6.675	91	44778	0.425	ppbV		99
61) m+p-xylene	6.768	91	73991	0.859	ppbV		99
62) bromoform	6.768	173	17421	0.529	ppbV		99
63) styrene	6.943	104	22840	0.374	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	29459	0.450	ppbV		100
65) o-xylene	6.989	91	34727	0.417	ppbV		99
66) 1,2,3-Trichloropropane	7.053	75	21099	0.465	ppbV		99
68) isopropylbenzene	7.298	105	51424	0.444	ppbV		97
69) Bromobenzene	7.309	77	24955M6	0.487	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

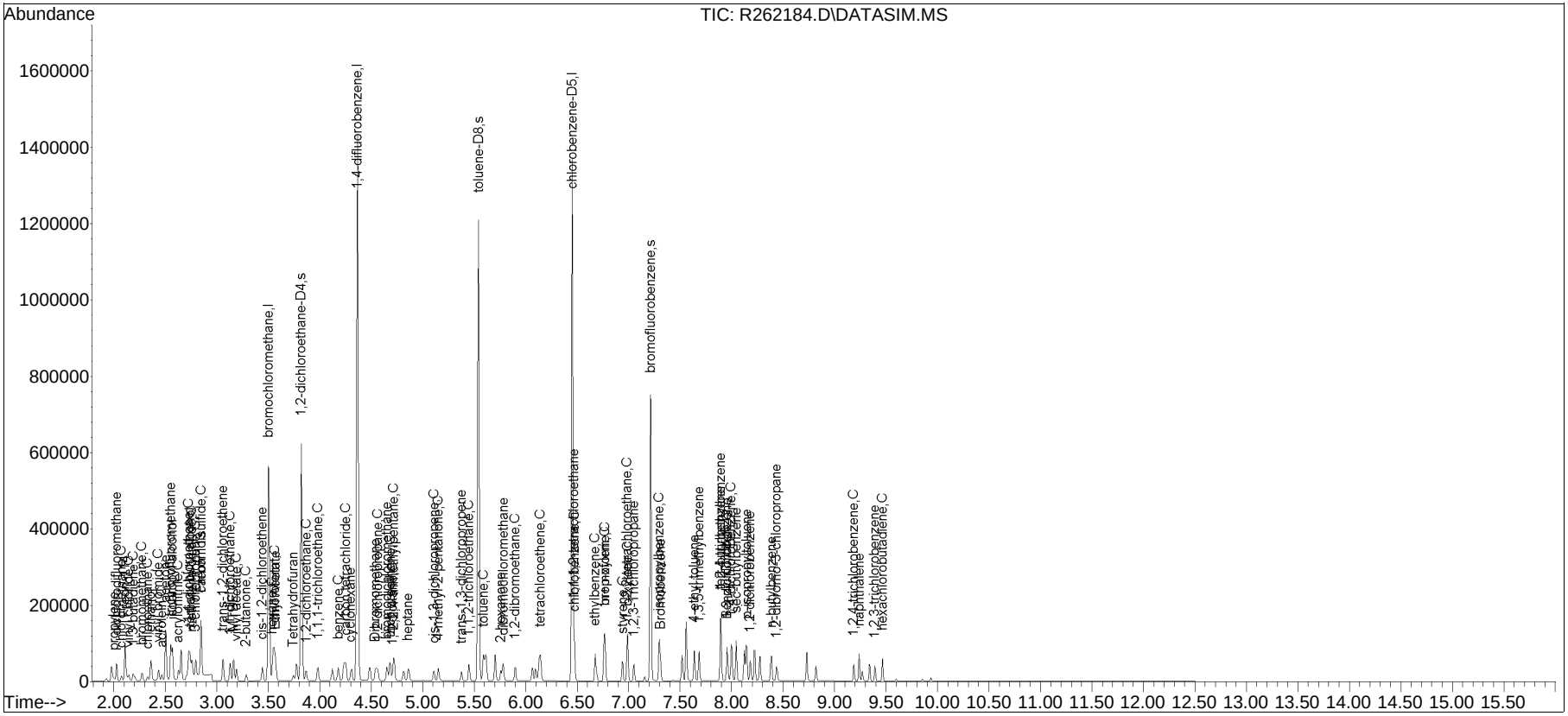
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	42397M4	0.514	ppbV		
71) 1,3,5-trimethylbenzene	7.685	105	36632	0.382	ppbV	#	96
72) tert-butylbenzene	7.893	119	42304	0.394	ppbV		100
73) 1,2,4-trimethylbenzene	7.893	105	37944	0.376	ppbV		96
74) Benzyl Chloride	7.957	91	19259	0.450	ppbV		100
75) 1,3-dichlorobenzene	7.957	146	31215M4	0.395	ppbV		
76) 1,4-dichlorobenzene	7.997	146	32585M6	0.412	ppbV		
77) sec-butylbenzene	8.045	105	61025	0.409	ppbV		100
78) p-isopropyltoluene	8.148	119	53330	0.387	ppbV		99
79) 1,2-dichlorobenzene	8.180	146	31814	0.408	ppbV		97
80) n-butylbenzene	8.388	91	47113	0.382	ppbV		97
81) 1,2-dibromo-3-chloropr...	8.436	75	12895	0.397	ppbV	#	81
82) 1,2,4-trichlorobenzene	9.186	180	24413	0.357	ppbV		97
83) naphthalene	9.239	128	54288	0.348	ppbV		100
84) 1,2,3-trichlorobenzene	9.391	180	22111	0.262	ppbV		97
85) hexachlorobutadiene	9.467	225	21018	0.360	ppbV		94

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262184.D
Acq On : 14 Mar 2025 10:40 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD0.5
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

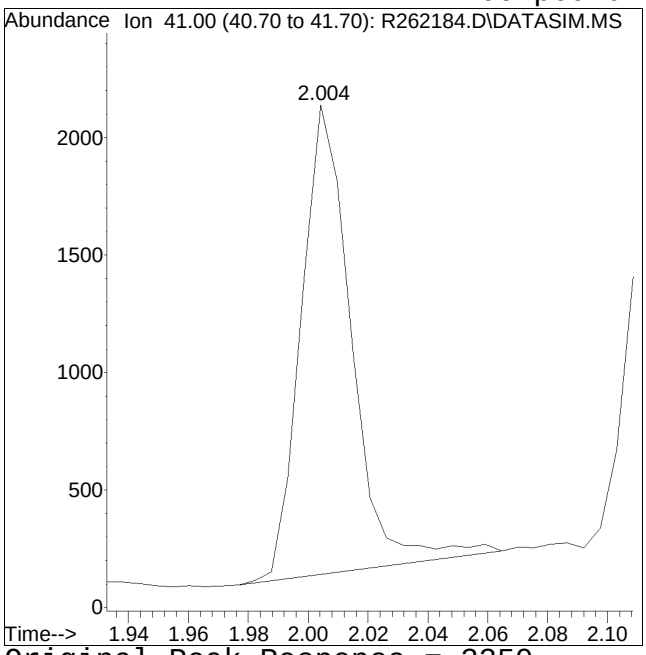


Manual Integration Report

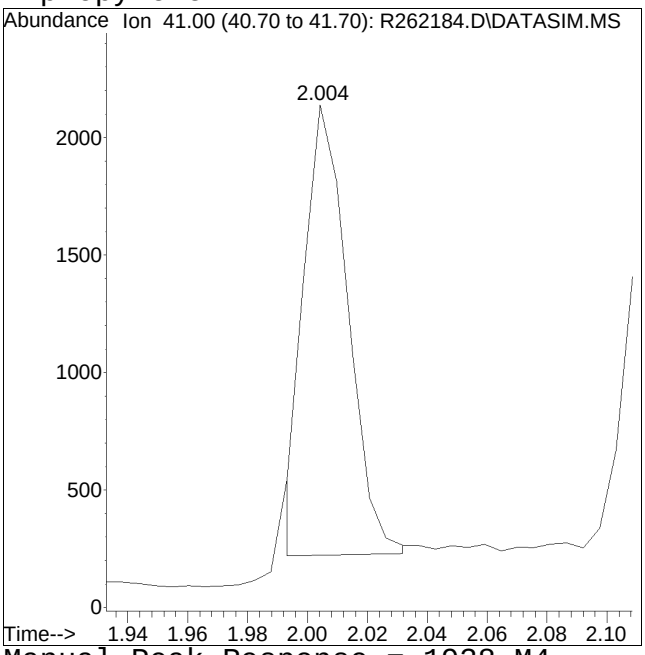
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262184.D
Date Inj'd : 3/14/2025 10:40 pm
Sample : ITO15-LLSTD0.5

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #2: propylene



Original Peak Response = 2350



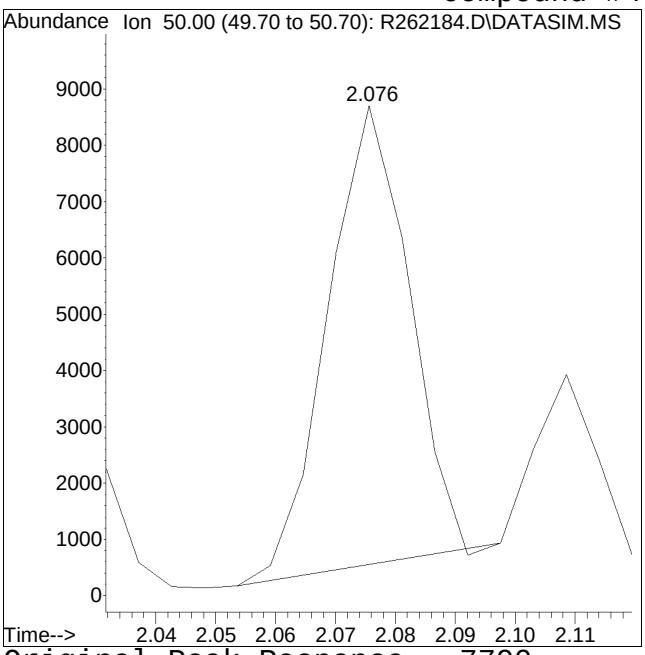
Manual Peak Response = 1938 M4

M4 = Poor automated baseline construction.

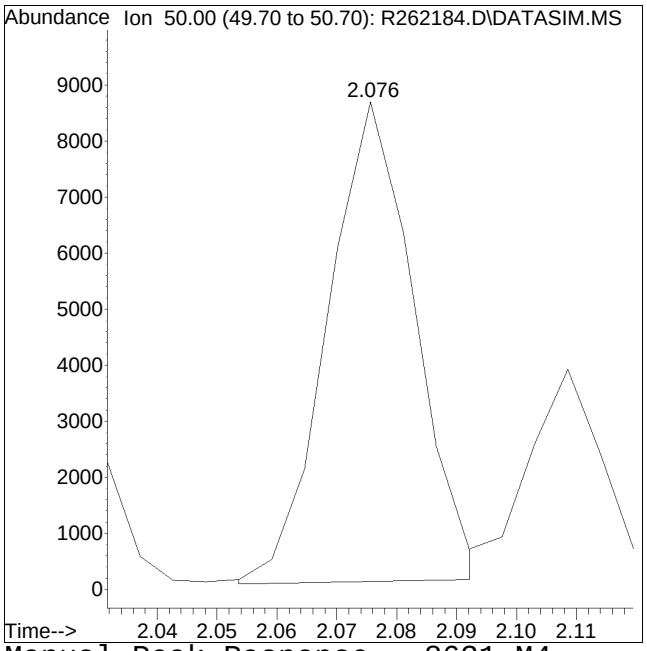
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #4: chloromethane



Original Peak Response = 7790



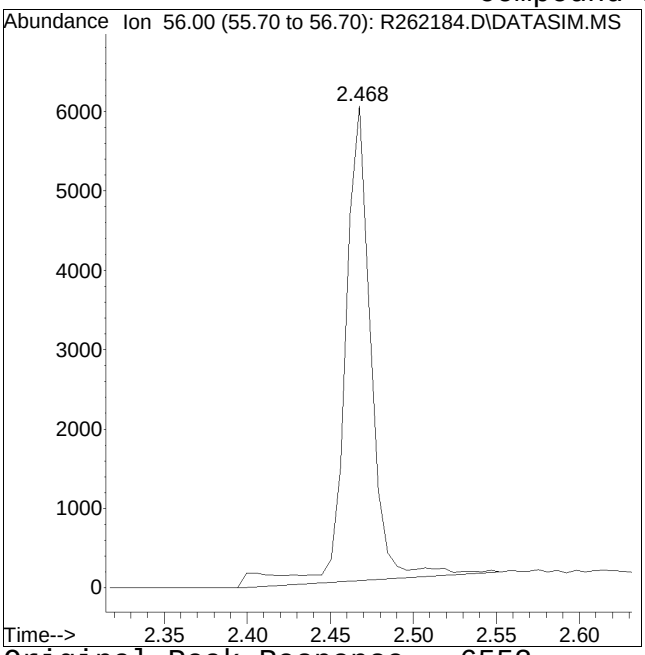
Manual Peak Response = 8631 M4

M4 = Poor automated baseline construction.

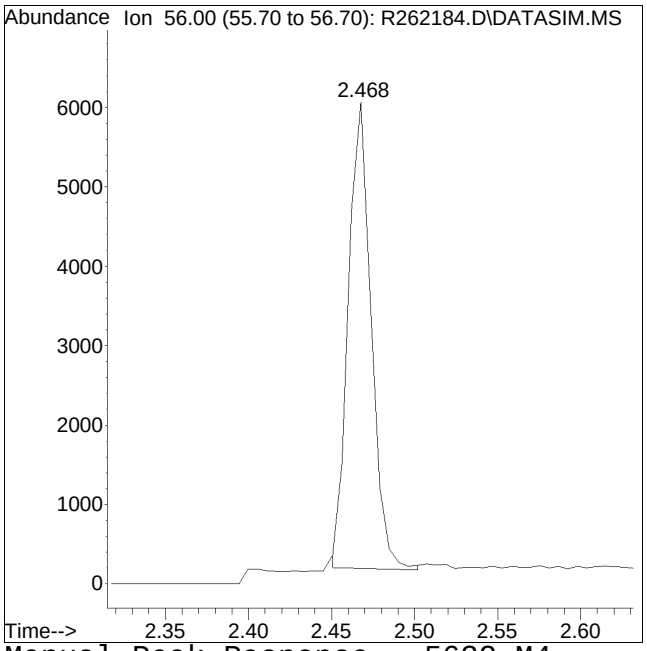
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #12: acrolein



Original Peak Response = 6552



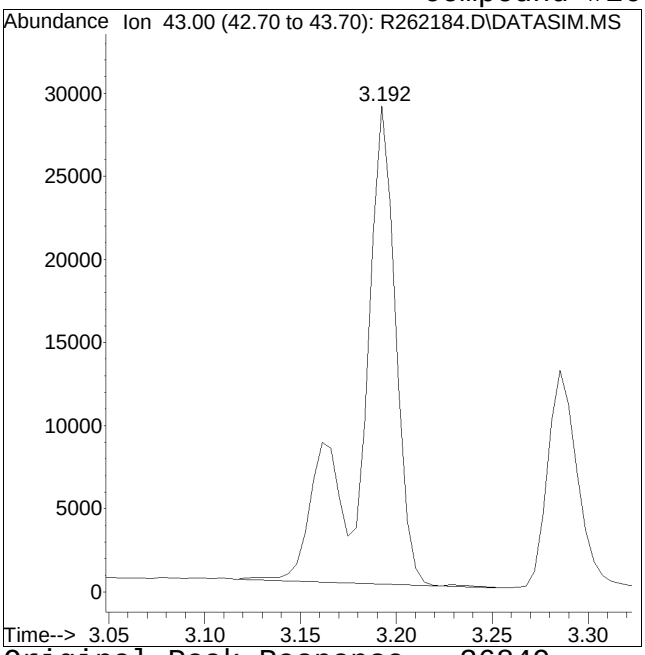
Manual Peak Response = 5622 M4

M4 = Poor automated baseline construction.

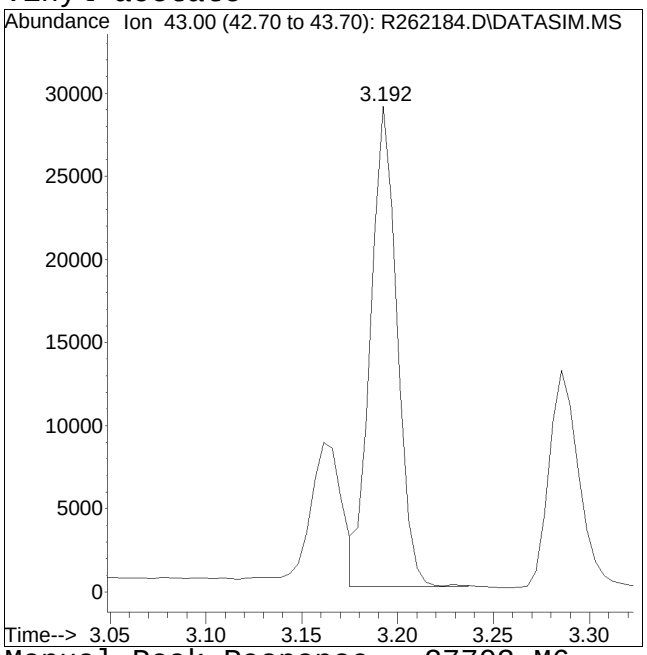
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #26: vinyl acetate



Original Peak Response = 36849



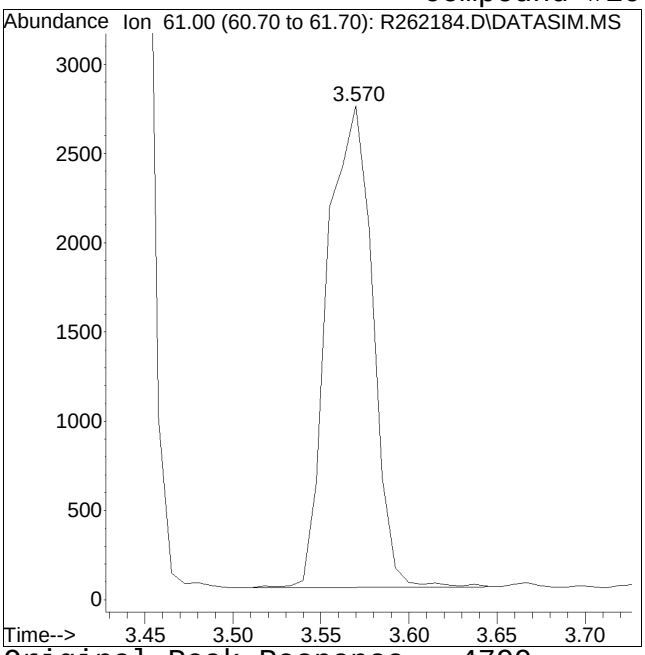
Manual Peak Response = 27703 M6

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

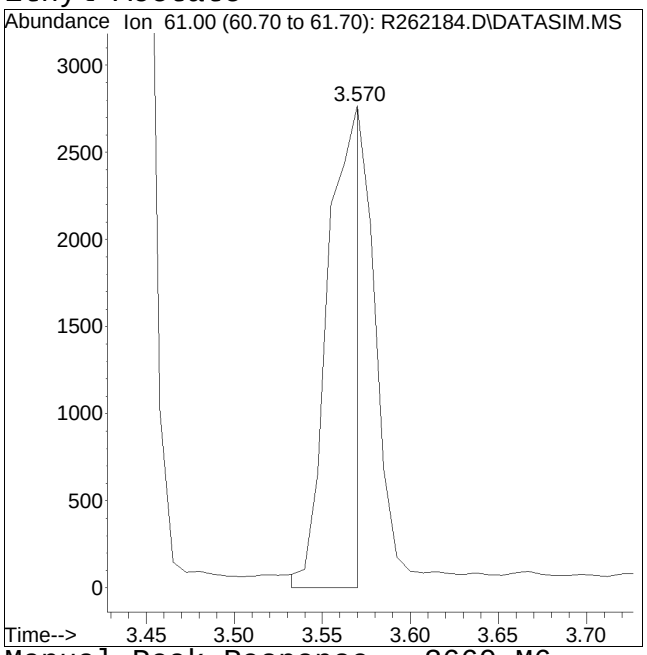
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #29: Ethyl Acetate



Original Peak Response = 4799



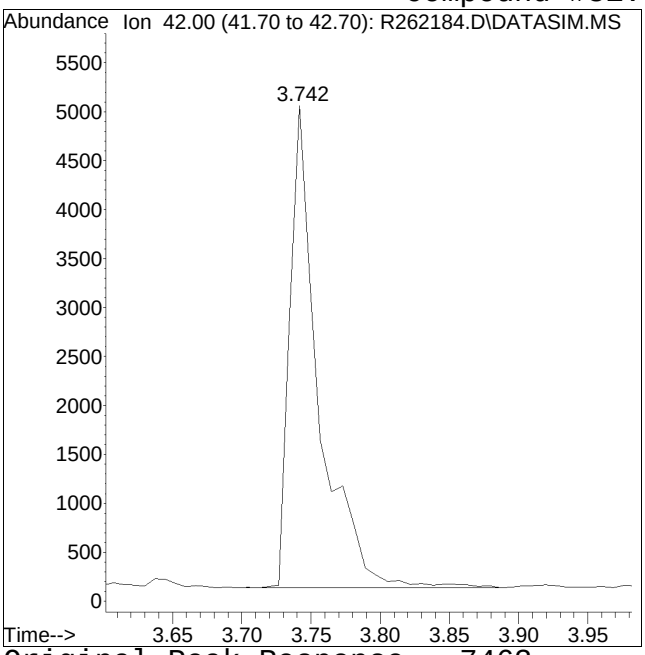
Manual Peak Response = 3660 M6

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

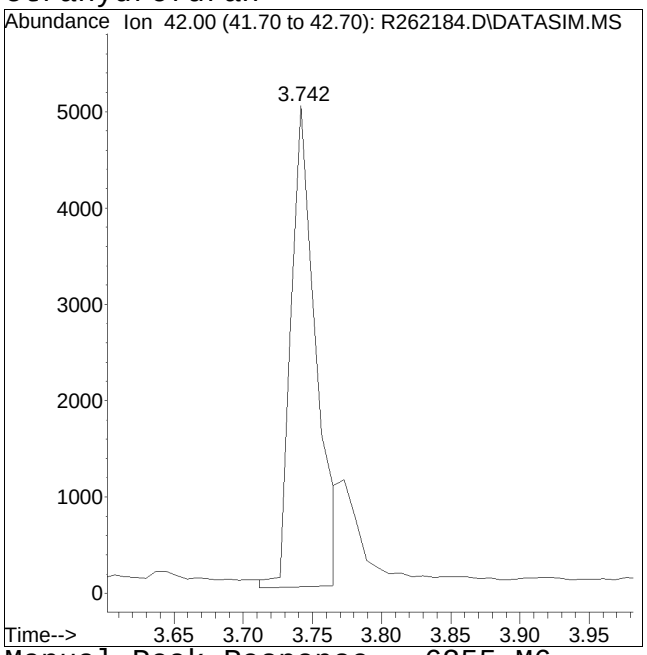
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 7463



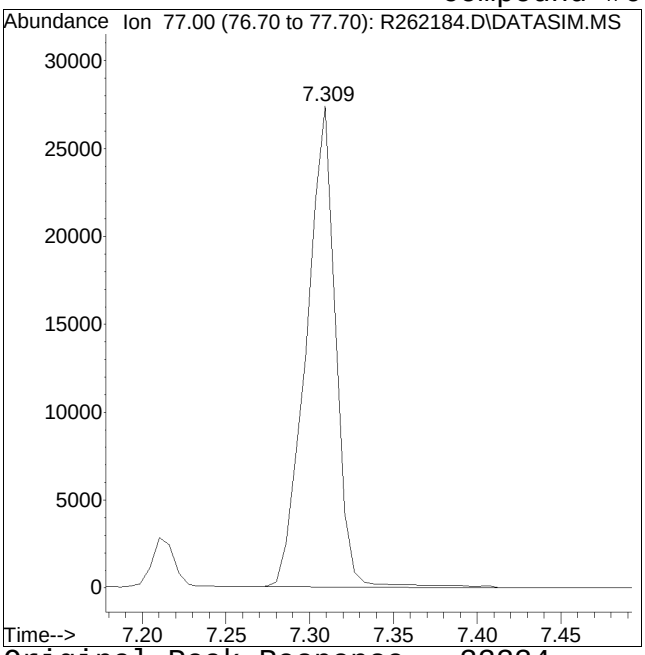
Manual Peak Response = 6255 M6

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

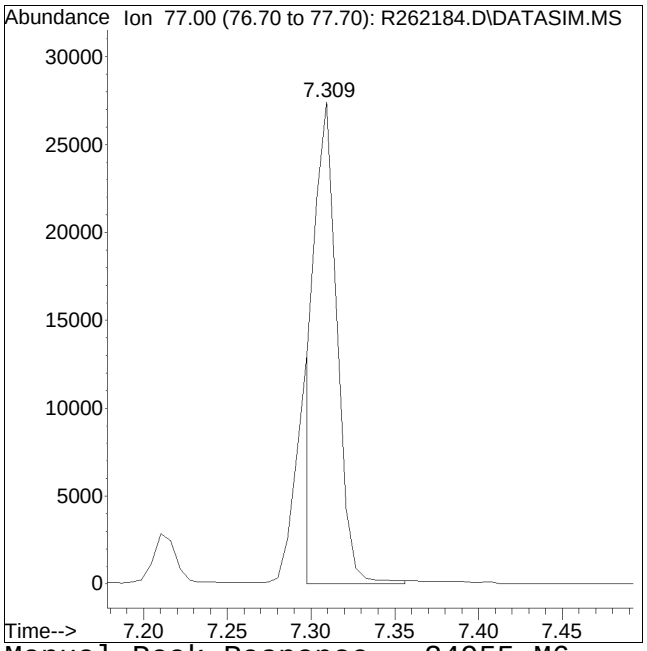
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #69: Bromobenzene



Original Peak Response = 33334



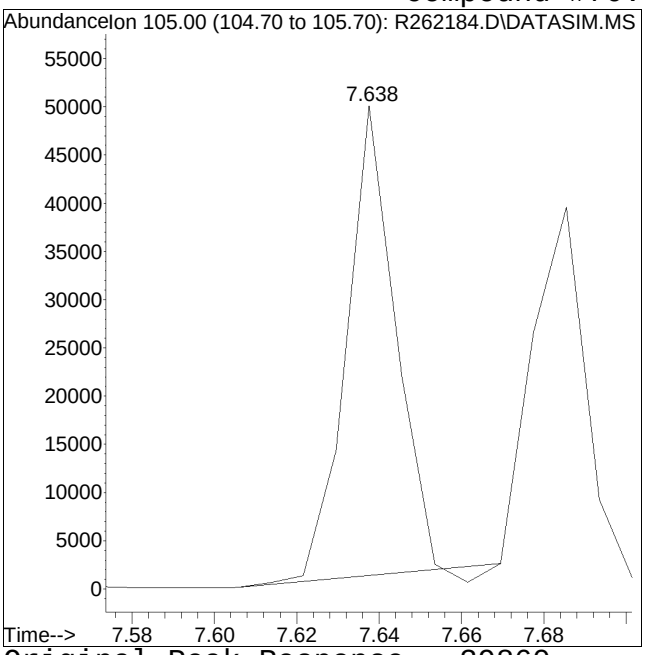
Manual Peak Response = 24955 M6

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

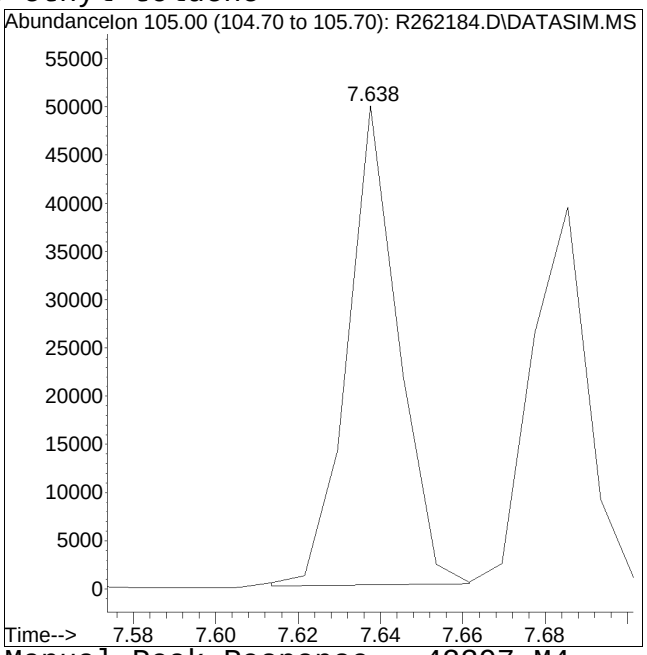
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 39860



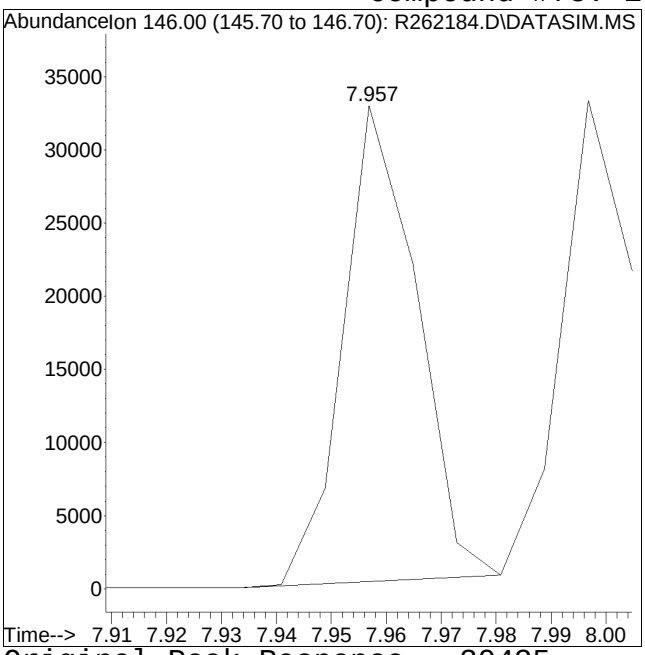
Manual Peak Response = 42397 M4

M4 = Poor automated baseline construction.

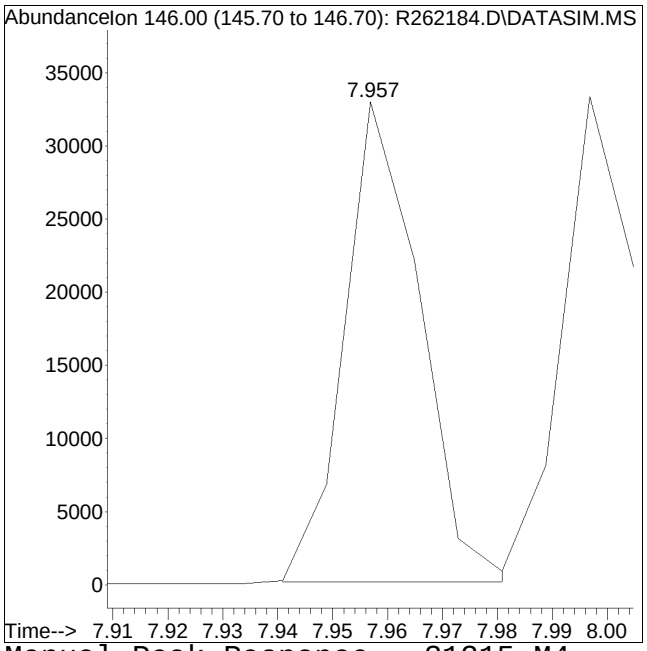
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 30435



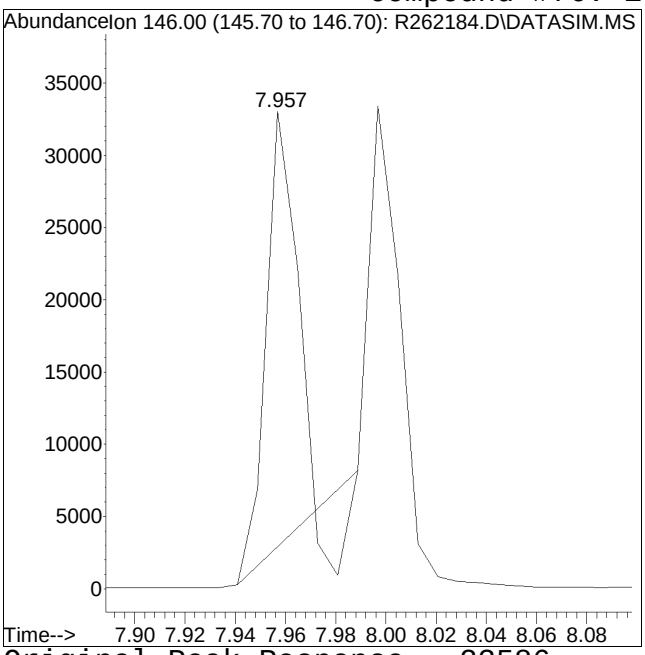
Manual Peak Response = 31215 M4

M4 = Poor automated baseline construction.

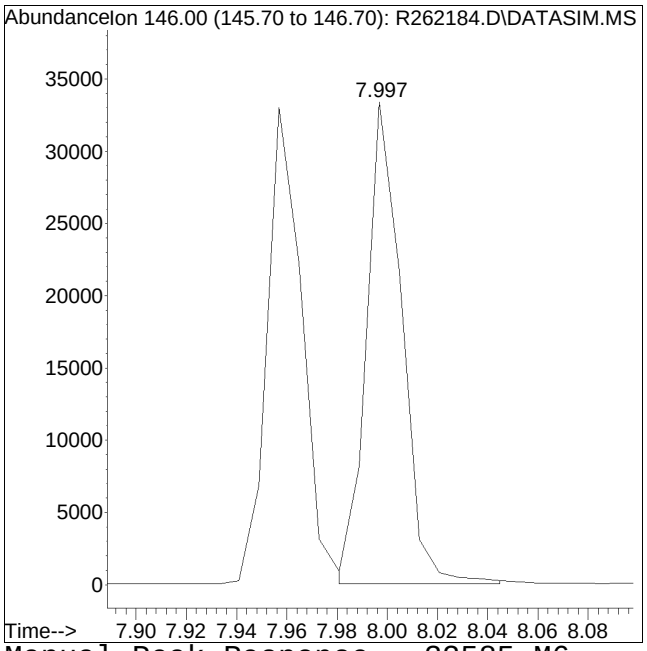
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262184.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 10:40 pm Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 3/18/2025 12:18 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 23586



Manual Peak Response = 32585 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:14 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	272542	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 101.31%			
33) 1,4-difluorobenzene	4.368	114	933060	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 99.02%			
51) chlorobenzene-D5	6.452	54	141878	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 98.35%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	294073	9.982	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.82%			
53) toluene-D8	5.544	98	751571	10.021	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.21%			
67) bromofluorobenzene	7.210	95	485208	9.566	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.66%			
Target Compounds						Qvalue
2) propylene	1.999	41	4587	1.164	ppbV	98
3) dichlorodifluoromethane	2.021	85	49859	0.987	ppbV	100
4) chloromethane	2.070	50	17443M4	0.983	ppbV	
5) Freon-114	2.103	85	67337	0.977	ppbV	99
6) vinyl chloride	2.142	62	21612M4	0.955	ppbV	
7) 1,3-butadiene	2.180	54	13250	1.302	ppbV	94
8) bromomethane	2.268	94	22928	0.986	ppbV	99
9) chloroethane	2.323	64	12210	0.982	ppbV	96
10) ethanol	2.356	31	61824	5.515	ppbV	100
11) vinyl bromide	2.428	106	26375	1.316	ppbV	100
12) acrolein	2.462	56	11485M4	1.001	ppbV	
13) acetone	2.496	43	183621	6.717	ppbV	100
14) trichlorofluoromethane	2.547	101	89859	0.987	ppbV	100
15) isopropyl alcohol	2.564	45	105992	3.313	ppbV	100
16) acrylonitrile	2.626	53	24379	1.070	ppbV	97
17) 1,1-dichloroethene	2.724	61	54441	0.980	ppbV	99
18) tertiary butyl alcohol	2.738	59	67334	0.959	ppbV	97
19) methylene chloride	2.757	49	38079M4	1.006	ppbV	
20) 3-chloropropene	2.791	41	32122	1.312	ppbV	100
21) carbon disulfide	2.843	76	88764	1.305	ppbV	95
22) Freon 113	2.843	101	75614	0.985	ppbV	100
23) trans-1,2-dichloroethene	3.055	61	47076	1.292	ppbV	100
24) 1,1-dichloroethane	3.126	63	64456	0.981	ppbV	100

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:14 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.161	73	84755	1.292	ppbV #	17
26) vinyl acetate	3.192	43	66923M6	1.511	ppbV	
27) 2-butanone	3.281	43	36704	1.258	ppbV	97
28) cis-1,2-dichloroethene	3.443	61	25447	0.948	ppbV	100
29) Ethyl Acetate	3.562	61	5962M6	1.187	ppbV	
30) chloroform	3.562	83	45683	0.959	ppbV	99
31) Tetrahydrofuran	3.734	42	12700M6	1.225	ppbV	
32) 1,2-dichloroethane	3.863	62	28894	0.981	ppbV #	30
34) hexane	3.540	57	23599	1.321	ppbV	79
36) 1,1,1-trichloroethane	3.977	97	45401	0.954	ppbV	99
37) benzene	4.179	78	59471	0.962	ppbV	100
38) carbon tetrachloride	4.245	117	46726	0.962	ppbV	98
39) cyclohexane	4.302	56	23323M4	1.252	ppbV	
40) Dibromomethane	4.538	93	27519	0.987	ppbV #	98
41) 1,2-dichloropropane	4.556	63	21167	0.960	ppbV	98
42) bromodichloromethane	4.651	83	44061	1.277	ppbV	100
43) 1,4-dioxane	4.698	88	11921	1.226	ppbV	98
44) trichloroethene	4.679	130	30480	0.946	ppbV	99
45) 2,2,4-trimethylpentane	4.717	57	74157	1.263	ppbV	98
46) heptane	4.858	43	23289	1.235	ppbV	99
47) cis-1,3-dichloropropene	5.105	75	30821	0.931	ppbV	94
48) 4-methyl-2-pentanone	5.145	43	32213	1.164	ppbV #	100
49) trans-1,3-dichloropropene	5.376	75	24431	0.912	ppbV	100
50) 1,1,2-trichloroethane	5.448	97	27448	0.944	ppbV	98
52) toluene	5.592	91	74981	0.949	ppbV	99
54) 2-hexanone	5.751	43	29996	1.119	ppbV	99
55) dibromochloromethane	5.783	129	42925	1.184	ppbV	99
56) 1,2-dibromoethane	5.895	107	42793	0.928	ppbV	100
57) tetrachloroethene	6.142	166	38305	0.912	ppbV	98
58) 1,1,1,2-tetrachloroethane	6.468	131	32912	0.925	ppbV #	99
59) chlorobenzene	6.474	112	64246	0.925	ppbV	91
60) ethylbenzene	6.676	91	91950	0.867	ppbV	100
61) m+p-xylene	6.763	91	154969	1.786	ppbV	99
62) bromoform	6.763	173	36335	1.095	ppbV	100
63) styrene	6.937	104	50374	0.819	ppbV	99
64) 1,1,2,2-tetrachloroethane	6.983	83	60400	0.915	ppbV	100
65) o-xylene	6.989	91	73075	0.871	ppbV	99
66) 1,2,3-Trichloropropane	7.047	75	43074	0.943	ppbV	99
68) isopropylbenzene	7.298	105	106305	0.911	ppbV	97
69) Bromobenzene	7.309	77	49554M6	0.960	ppbV	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:14 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

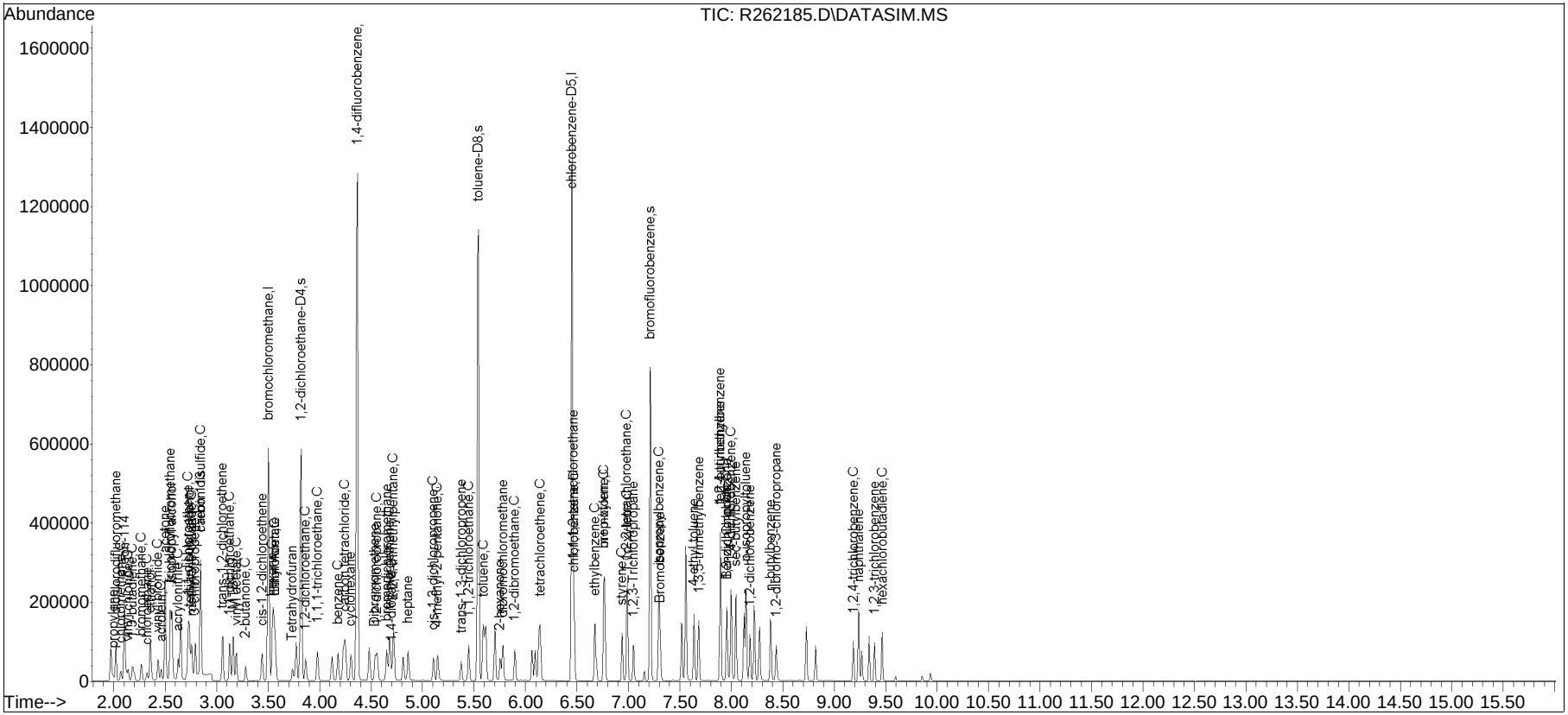
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	92061M4	1.108	ppbV		
71) 1,3,5-trimethylbenzene	7.686	105	80235	0.829	ppbV	#	55
72) tert-butylbenzene	7.893	119	89846	0.831	ppbV		100
73) 1,2,4-trimethylbenzene	7.893	105	83175	0.817	ppbV		97
74) Benzyl Chloride	7.957	91	40740	0.945	ppbV		99
75) 1,3-dichlorobenzene	7.957	146	67710M4	0.851	ppbV		
76) 1,4-dichlorobenzene	7.997	146	68875M4	0.865	ppbV		
77) sec-butylbenzene	8.045	105	129203	0.860	ppbV		99
78) p-isopropyltoluene	8.141	119	115930	0.835	ppbV		99
79) 1,2-dichlorobenzene	8.180	146	65953	0.840	ppbV		97
80) n-butylbenzene	8.380	91	102966	0.829	ppbV		97
81) 1,2-dibromo-3-chloropr...	8.436	75	27850	0.851	ppbV	#	82
82) 1,2,4-trichlorobenzene	9.186	180	54614	0.793	ppbV		97
83) naphthalene	9.239	128	145541	0.925	ppbV		99
84) 1,2,3-trichlorobenzene	9.391	180	52623	0.620	ppbV		97
85) hexachlorobutadiene	9.467	225	45169	0.767	ppbV		94

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262185.D
Acq On : 14 Mar 2025 11:16 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD1.0
Misc : WG2042597
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 18 12:18:14 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

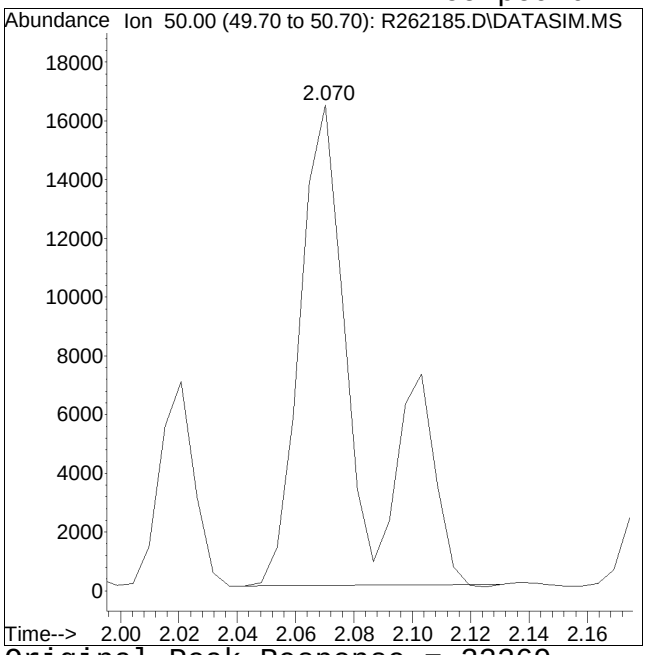


Manual Integration Report

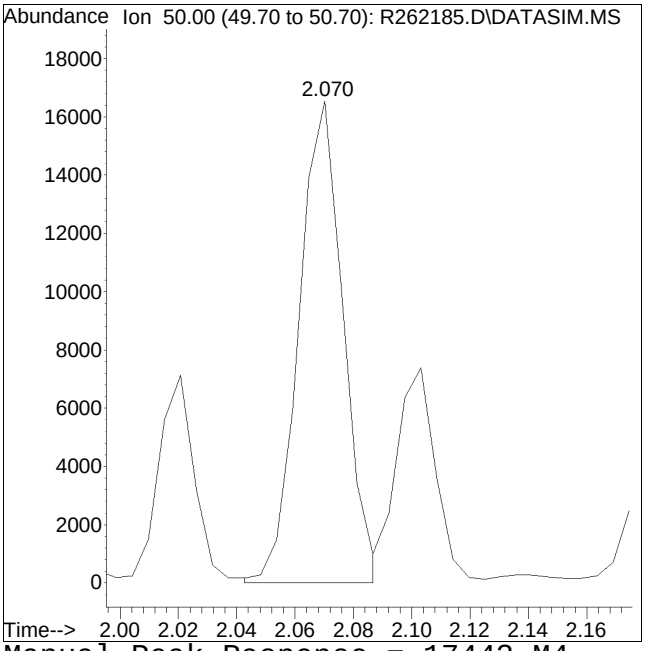
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262185.D
Date Inj'd : 3/14/2025 11:16 pm
Sample : ITO15-LLSTD1.0

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #4: chloromethane



Original Peak Response = 23369



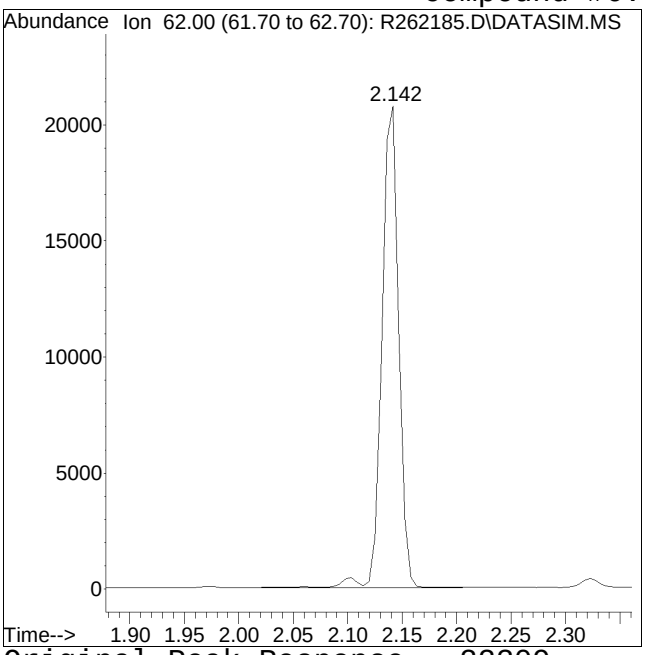
Manual Peak Response = 17443 M4

M4 = Poor automated baseline construction.

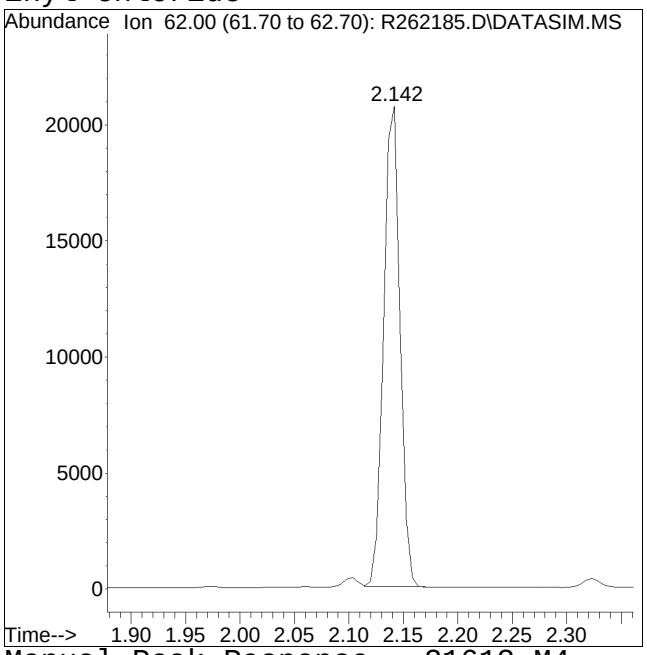
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #6: vinyl chloride



Original Peak Response = 22309



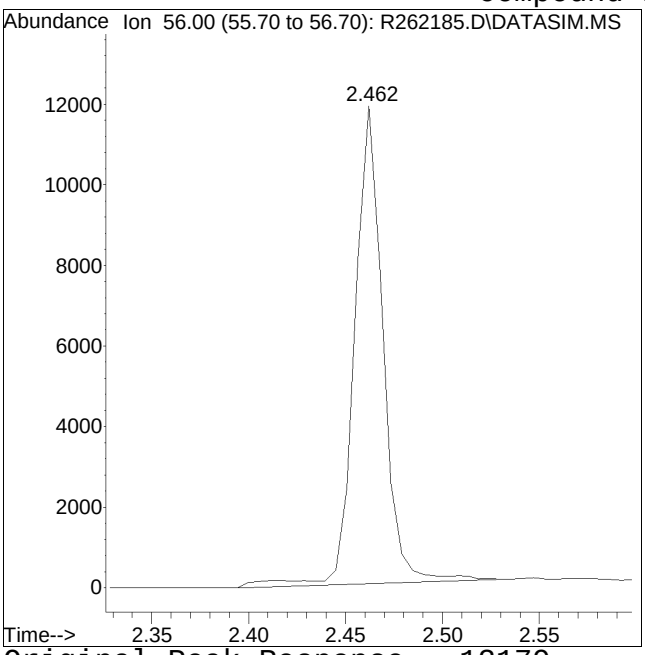
Manual Peak Response = 21612 M4

M4 = Poor automated baseline construction.

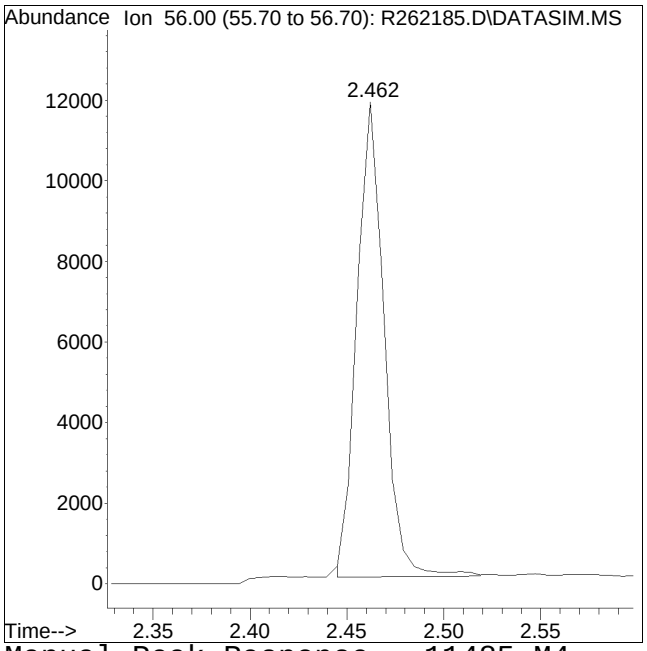
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #12: acrolein



Original Peak Response = 12179



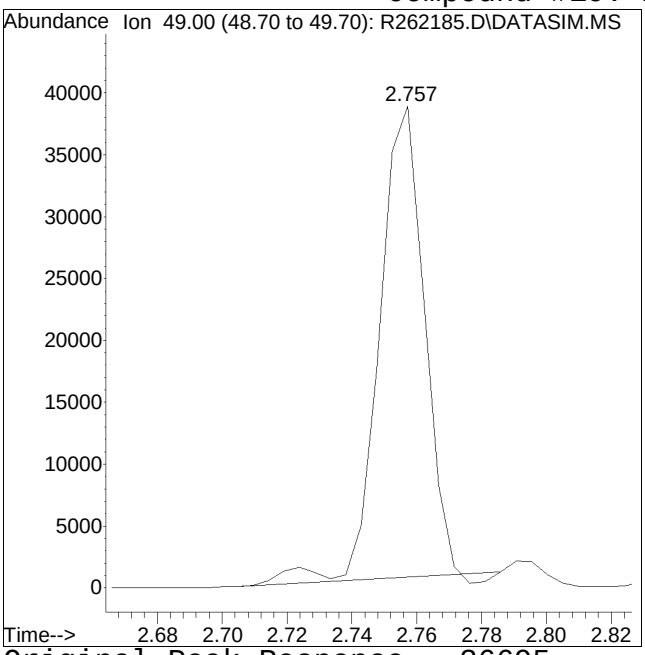
Manual Peak Response = 11485 M4

M4 = Poor automated baseline construction.

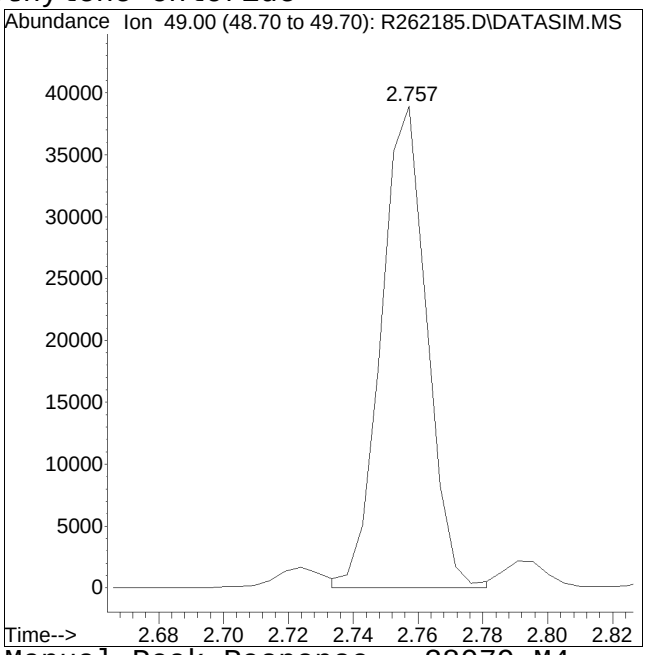
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #19: methylene chloride



Original Peak Response = 36695



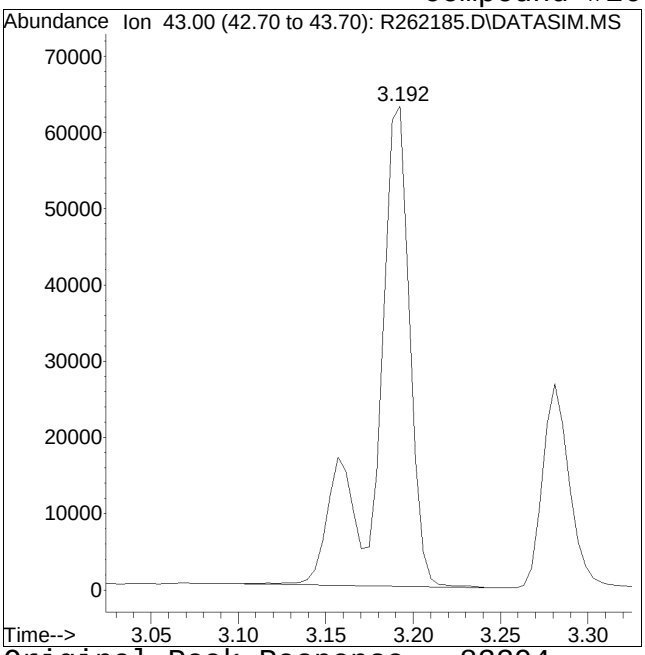
Manual Peak Response = 38079 M4

M4 = Poor automated baseline construction.

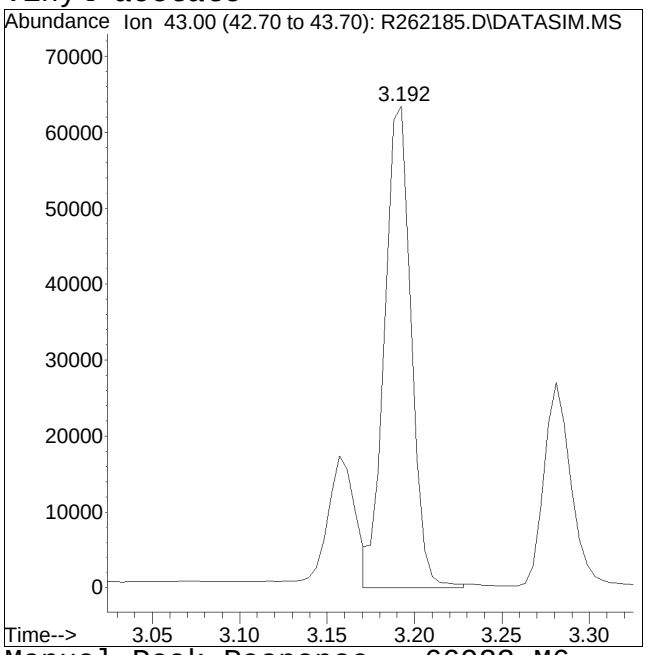
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #26: vinyl acetate



Original Peak Response = 83394



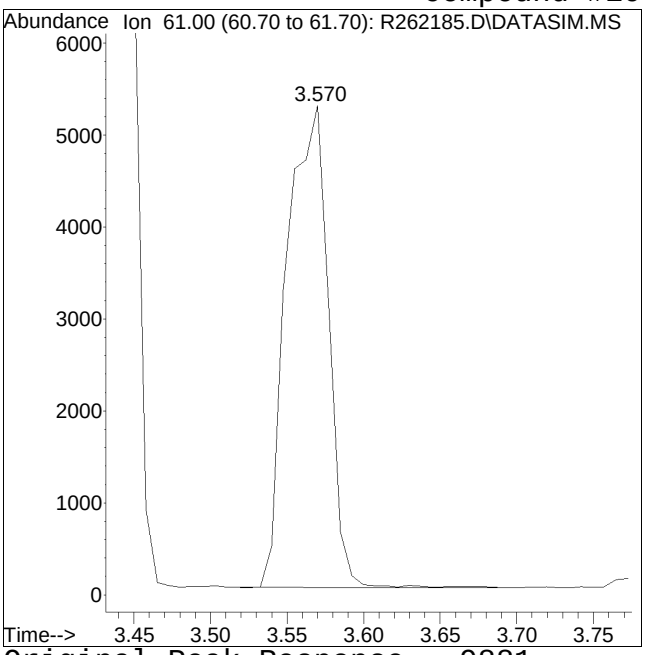
Manual Peak Response = 66923 M6

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

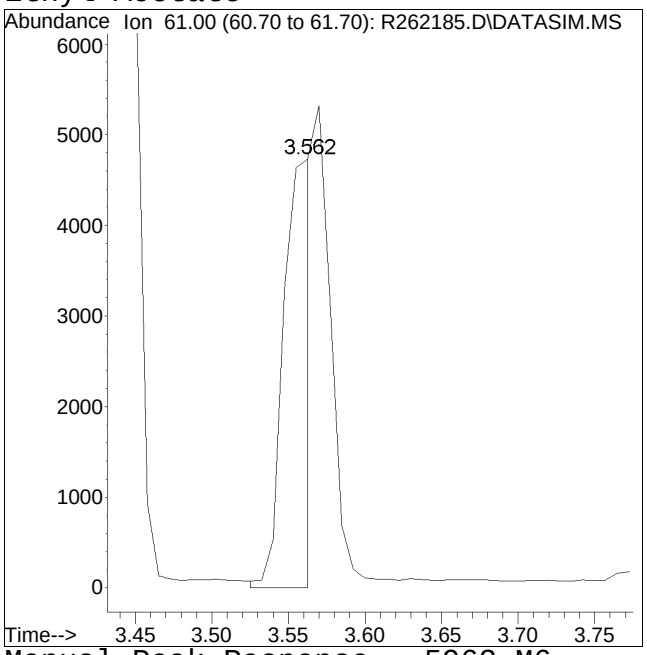
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #29: Ethyl Acetate



Original Peak Response = 9881



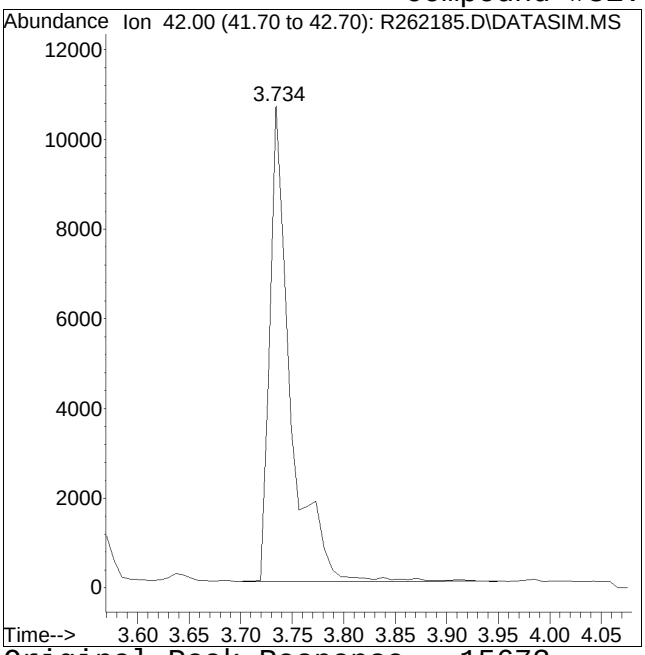
Manual Peak Response = 5962 M6

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

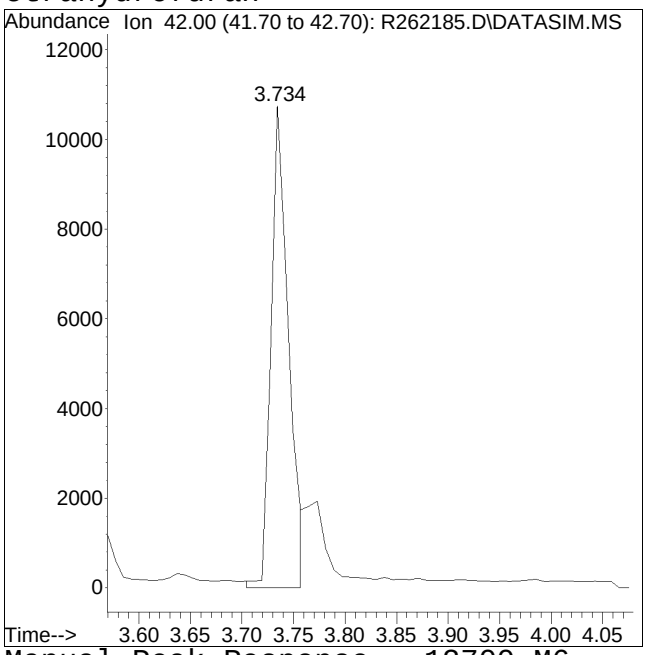
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 15673



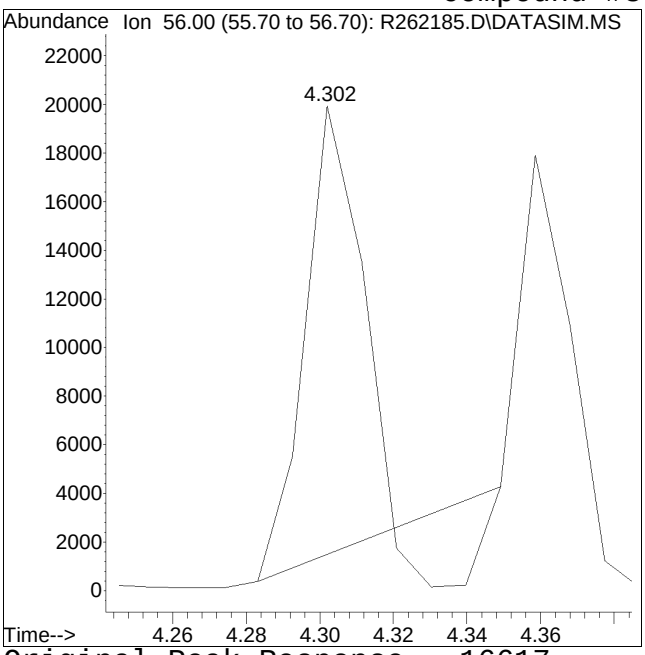
Manual Peak Response = 12700 M6

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

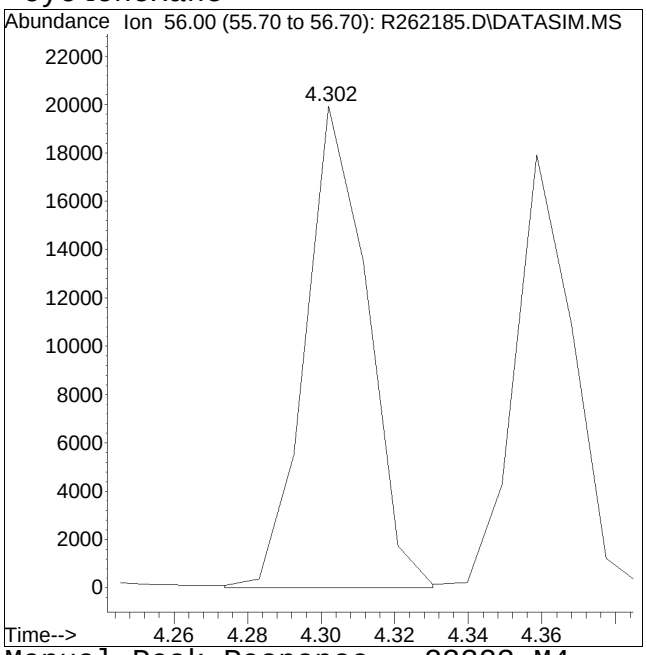
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #39: cyclohexane



Original Peak Response = 16617



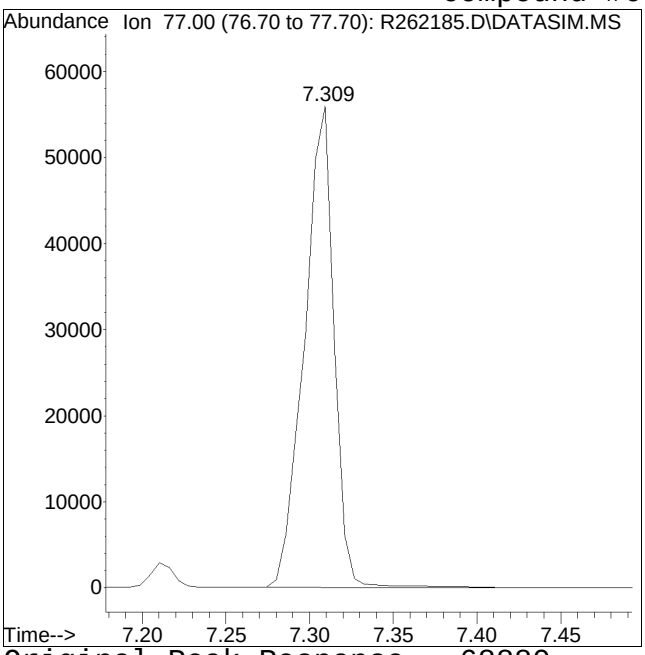
Manual Peak Response = 23323 M4

M4 = Poor automated baseline construction.

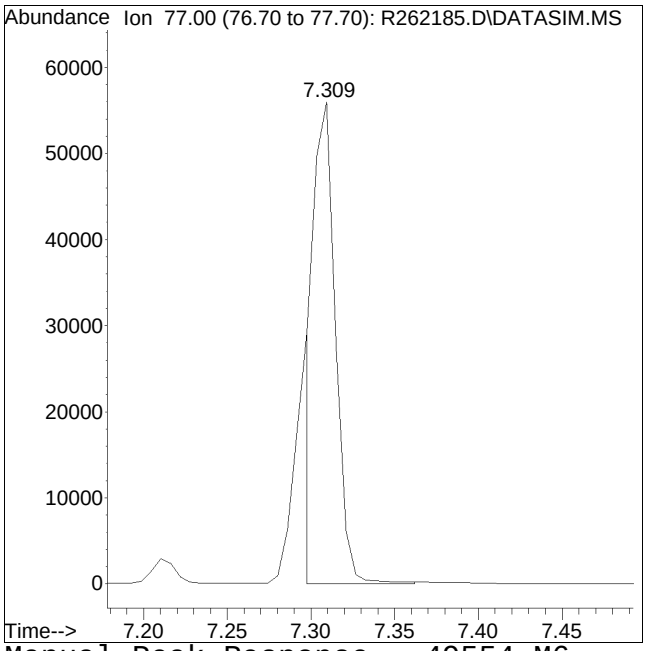
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #69: Bromobenzene



Original Peak Response = 68880



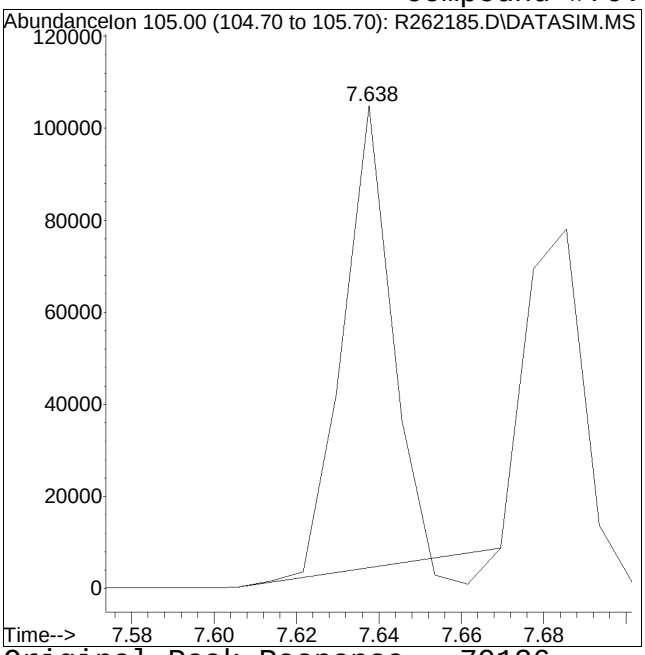
Manual Peak Response = 49554 M6

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

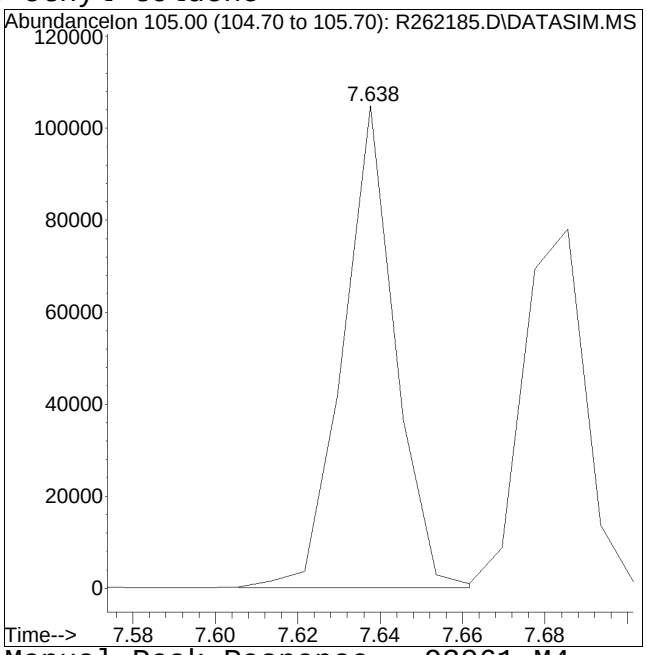
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 79126



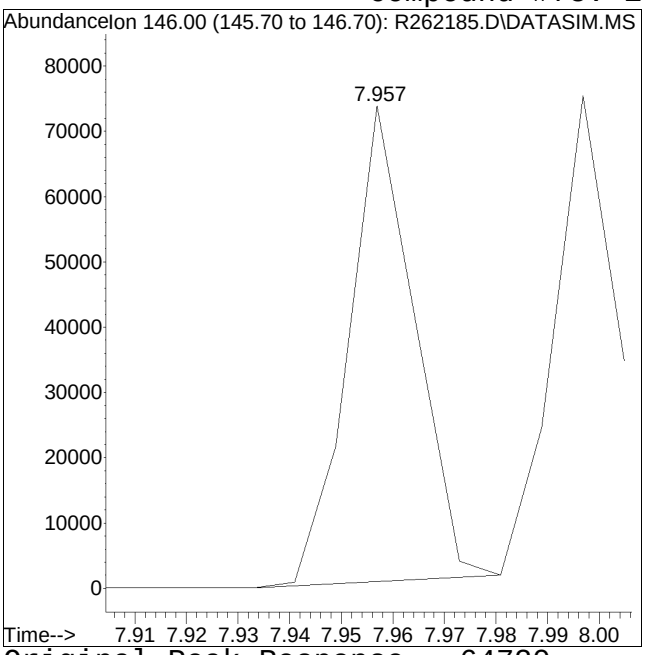
Manual Peak Response = 92061 M4

M4 = Poor automated baseline construction.

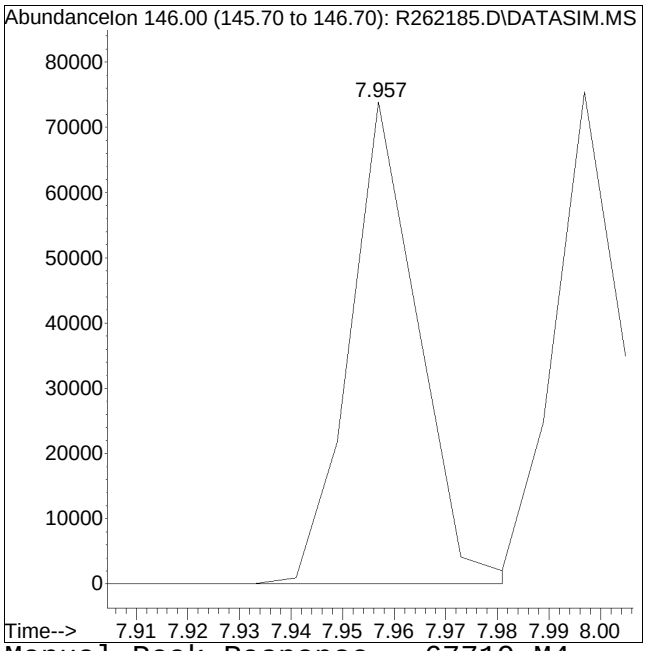
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 64720



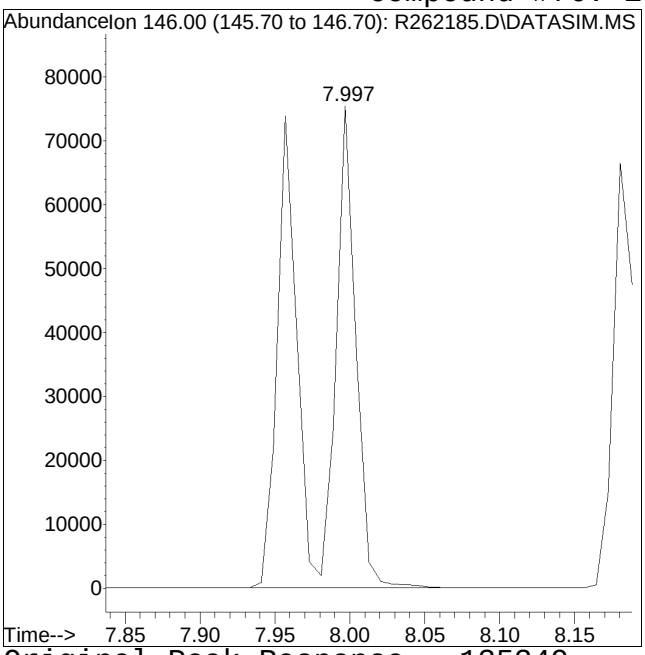
Manual Peak Response = 67710 M4

M4 = Poor automated baseline construction.

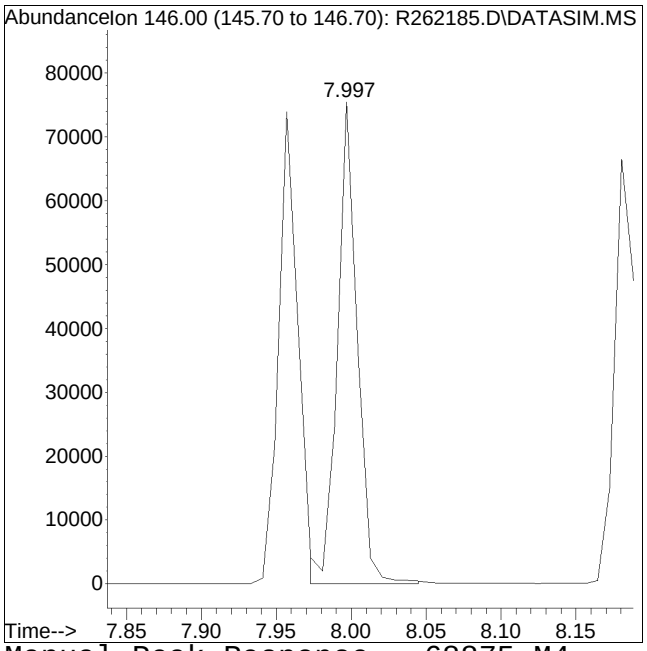
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262185.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:16 pm Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 3/18/2025 12:18 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 135349



Manual Peak Response = 68875 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:12:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 01 16:29:51 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	269025	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 100.00%			
33) 1,4-difluorobenzene	4.368	114	942251	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 100.00%			
51) chlorobenzene-D5	6.452	54	144255	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	297500	9.984	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.84%			
53) toluene-D8	5.544	98	762542	10.367	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.67%			
67) bromofluorobenzene	7.210	95	515732	10.408	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.08%			
Target Compounds						Qvalue
2) propylene	1.999	41	19453	2.330	ppbV	97
3) dichlorodifluoromethane	2.026	85	249430	4.481	ppbV	100
4) chloromethane	2.070	50	87610M3	5.109	ppbV	
5) Freon-114	2.109	85	340333	5.227	ppbV	99
6) vinyl chloride	2.142	62	111733	5.221	ppbV	99
7) 1,3-butadiene	2.186	54	50223	3.940	ppbV	90
8) bromomethane	2.273	94	114792	5.152	ppbV	100
9) chloroethane	2.328	64	61345	5.359	ppbV	93
10) ethanol	2.356	31	276639	21.702	ppbV	90
11) vinyl bromide	2.434	106	98909	4.354	ppbV	100
12) acrolein	2.462	56	56641	4.841	ppbV	93
13) acetone	2.496	43	674612	20.943	ppbV	96
14) trichlorofluoromethane	2.553	101	449536	5.463	ppbV	100
15) isopropyl alcohol	2.564	45	394782	9.830	ppbV	100
16) acrylonitrile	2.626	53	112399M6	5.737	ppbV	
17) 1,1-dichloroethene	2.724	61	274121	6.133	ppbV	100
18) tertiary butyl alcohol	2.733	59	346438	5.819	ppbV	97
19) methylene chloride	2.757	49	186731	6.426	ppbV	99
20) 3-chloropropene	2.795	41	120837	4.950	ppbV	99
21) carbon disulfide	2.848	76	335773	5.160	ppbV	99
22) Freon 113	2.843	101	378924	6.217	ppbV	98
23) trans-1,2-dichloroethene	3.060	61	179825	4.973	ppbV	100
24) 1,1-dichloroethane	3.130	63	324388	6.365	ppbV	100

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:12:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 01 16:29:51 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.157	73	323757	4.670	ppbV		99
26) vinyl acetate	3.192	43	218537M6	4.569	ppbV		
27) 2-butanone	3.281	43	144032	3.952	ppbV		99
28) cis-1,2-dichloroethene	3.443	61	132467	4.623	ppbV		99
29) Ethyl Acetate	3.555	61	24795M6	3.811	ppbV		
30) chloroform	3.562	83	235205	4.696	ppbV		99
31) Tetrahydrofuran	3.727	42	51186M6	3.135	ppbV		
32) 1,2-dichloroethane	3.863	62	145373	4.613	ppbV	#	98
34) hexane	3.540	57	90200	3.689	ppbV		94
36) 1,1,1-trichloroethane	3.985	97	240206	4.546	ppbV		99
37) benzene	4.180	78	312199	4.721	ppbV		99
38) carbon tetrachloride	4.255	117	245131	4.586	ppbV		100
39) cyclohexane	4.302	56	94066M4	3.734	ppbV		
40) Dibromomethane	4.538	93	140833	4.579	ppbV	#	90
41) 1,2-dichloropropane	4.557	63	111298	4.745	ppbV		98
42) bromodichloromethane	4.651	83	174218	3.688	ppbV		98
43) 1,4-dioxane	4.688	88	49105	3.752	ppbV		100
44) trichloroethene	4.679	130	162757	4.571	ppbV		99
45) 2,2,4-trimethylpentane	4.717	57	296425	3.822	ppbV	#	95
46) heptane	4.858	43	95215	3.679	ppbV		98
47) cis-1,3-dichloropropene	5.105	75	167243	4.503	ppbV		97
48) 4-methyl-2-pentanone	5.145	43	139686M6	3.705	ppbV		
49) trans-1,3-dichloropropene	5.376	75	135288	4.381	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	146864	4.736	ppbV		100
52) toluene	5.592	91	401596	4.797	ppbV		100
54) 2-hexanone	5.751	43	136275	3.708	ppbV		94
55) dibromochloromethane	5.783	129	184306	3.806	ppbV		99
56) 1,2-dibromoethane	5.895	107	234434	4.768	ppbV		100
57) tetrachloroethene	6.142	166	213590	4.502	ppbV		97
58) 1,1,1,2-tetrachloroethane	6.468	131	180972	4.541	ppbV	#	100
59) chlorobenzene	6.474	112	353057	4.831	ppbV		99
60) ethylbenzene	6.676	91	539395	4.948	ppbV		100
61) m+p-xylene	6.763	91	882057	9.830	ppbV		99
62) bromoform	6.763	173	168622	3.659	ppbV		100
63) styrene	6.937	104	312824	5.056	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	335657	5.035	ppbV		100
65) o-xylene	6.989	91	426431	4.911	ppbV		100
66) 1,2,3-Trichloropropane	7.047	75	232253	4.826	ppbV		98
68) isopropylbenzene	7.298	105	593196	4.935	ppbV		97
69) Bromobenzene	7.309	77	262282M6	4.537	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:12:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 01 16:29:51 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

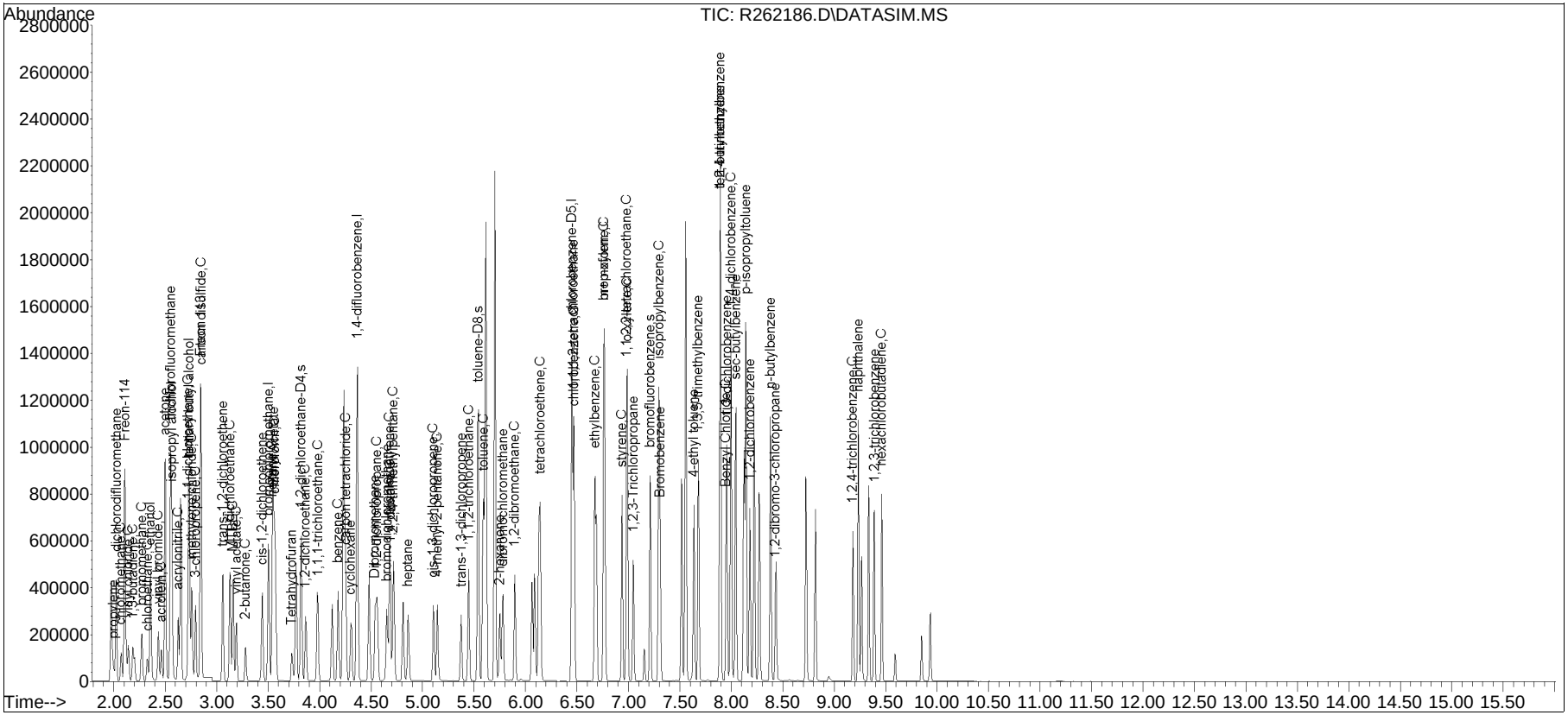
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	422499M4	4.088	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	491814M3	5.081	ppbV		
72) tert-butylbenzene	7.893	119	549491	4.950	ppbV		100
73) 1,2,4-trimethylbenzene	7.893	105	517463	5.048	ppbV		99
74) Benzyl Chloride	7.949	91	219176	3.075	ppbV		98
75) 1,3-dichlorobenzene	7.957	146	404512M6	5.026	ppbV		
76) 1,4-dichlorobenzene	7.997	146	404775M6	4.888	ppbV		
77) sec-butylbenzene	8.045	105	763507	5.052	ppbV		100
78) p-isopropyltoluene	8.141	119	705481	5.087	ppbV		99
79) 1,2-dichlorobenzene	8.180	146	399214	4.978	ppbV		99
80) n-butylbenzene	8.380	91	631101	5.151	ppbV		100
81) 1,2-dibromo-3-chloropr...	8.428	75	166286	4.819	ppbV	#	89
82) 1,2,4-trichlorobenzene	9.180	180	350067	4.768	ppbV		99
83) naphthalene	9.233	128	800076	4.956	ppbV		100
84) 1,2,3-trichlorobenzene	9.391	180	431824	5.764	ppbV		99
85) hexachlorobutadiene	9.461	225	299433	4.832	ppbV		97

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262186.D
Acq On : 14 Mar 2025 11:50 pm
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD5.0
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

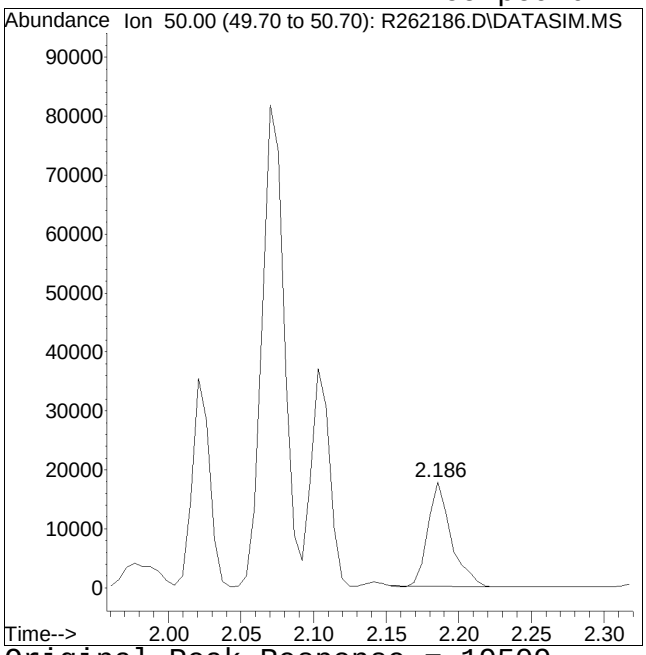
Quant Time: Mar 18 12:12:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Mar 01 16:29:51 2025
Response via : Initial Calibration



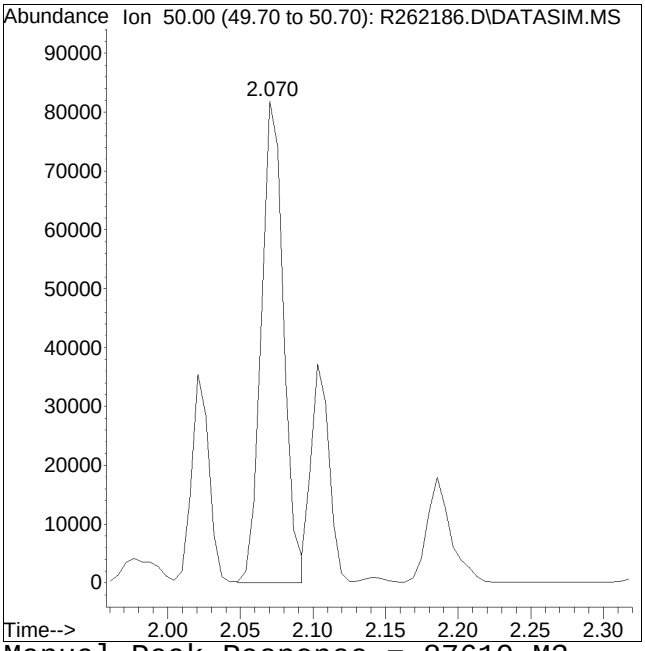
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #4: chloromethane



Original Peak Response = 19509



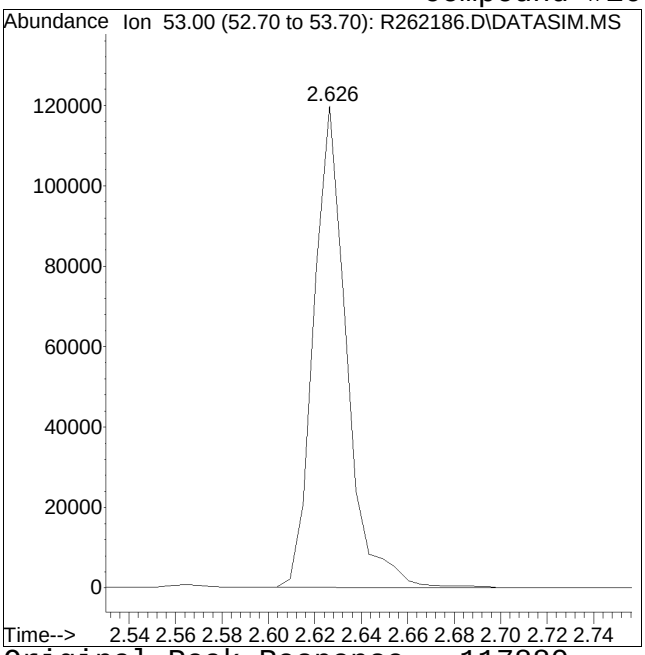
Manual Peak Response = 87610 M3

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.

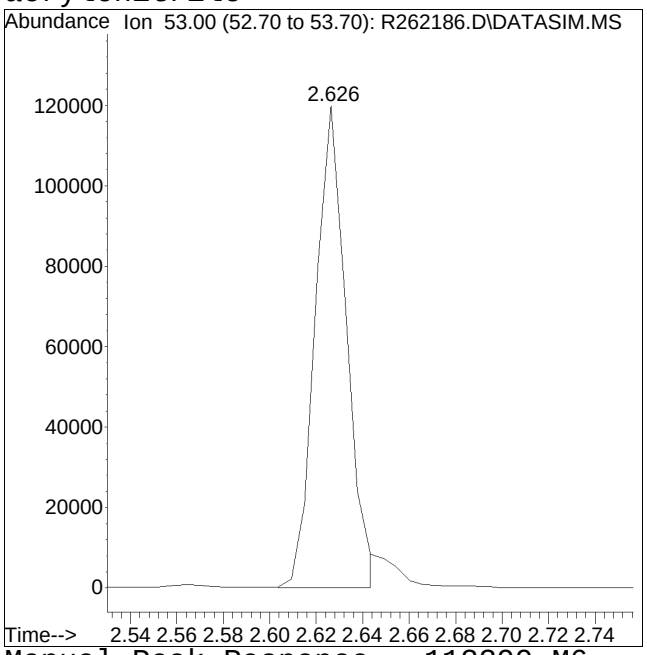
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #16: acrylonitrile



Original Peak Response = 117880



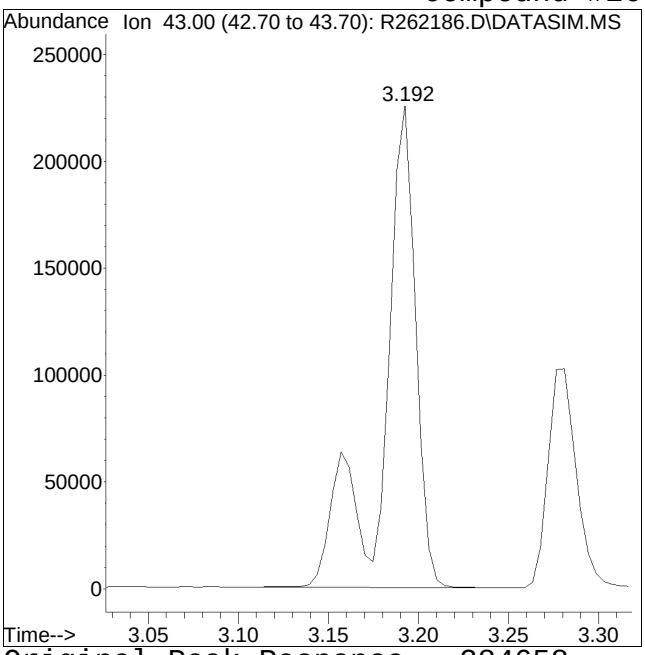
Manual Peak Response = 112399 M6

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

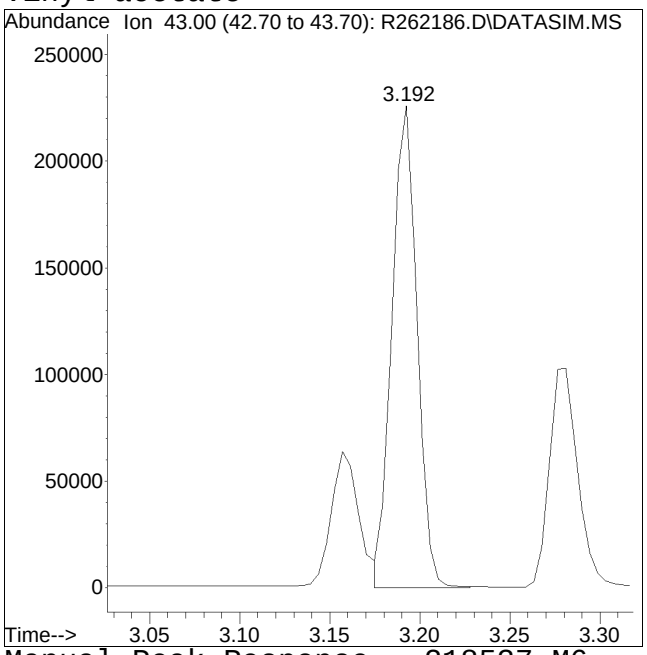
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #26: vinyl acetate



Original Peak Response = 284658



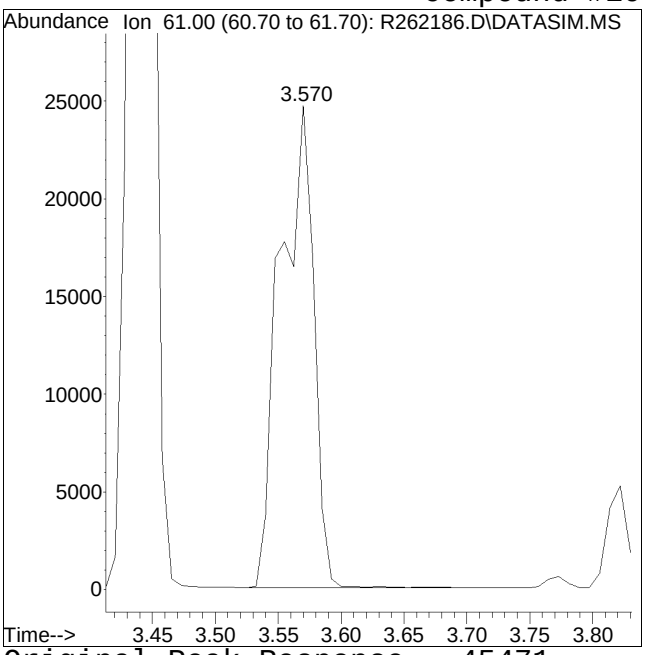
Manual Peak Response = 218537 M6

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

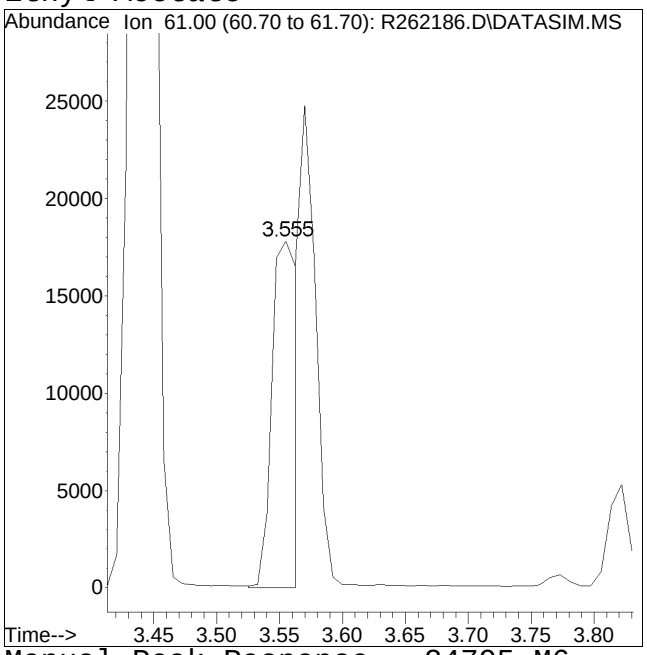
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #29: Ethyl Acetate



Original Peak Response = 45471



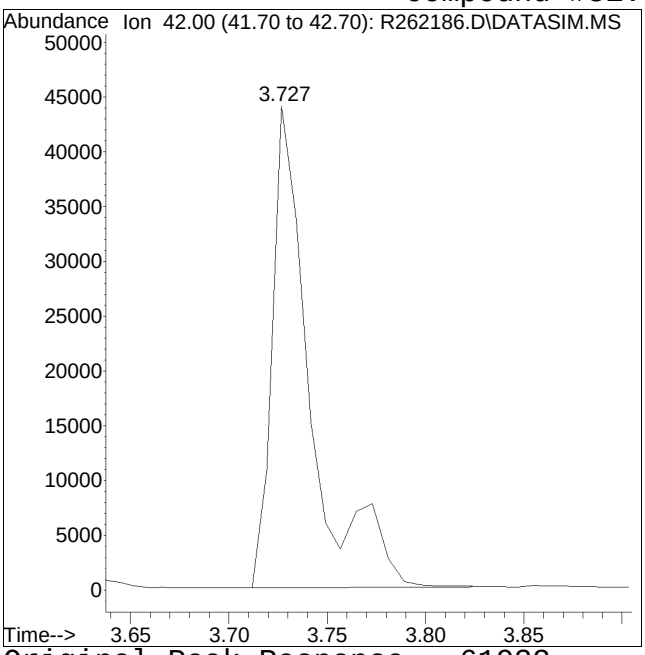
Manual Peak Response = 24795 M6

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

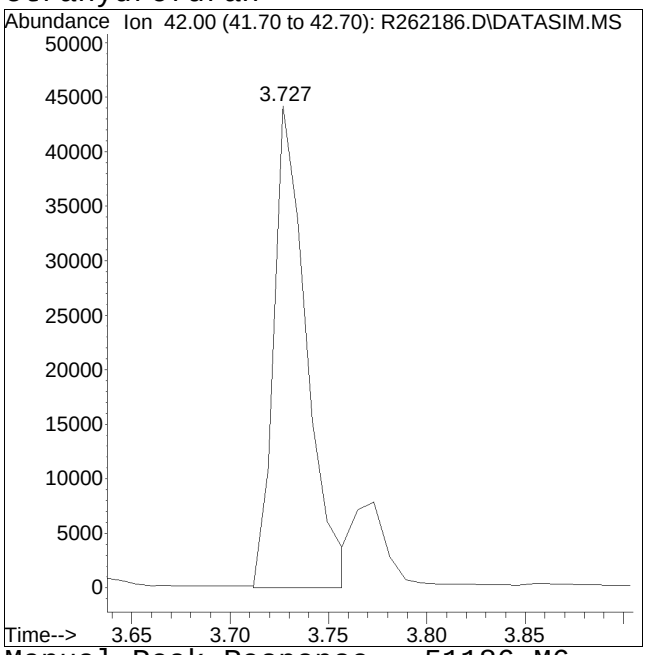
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 61932



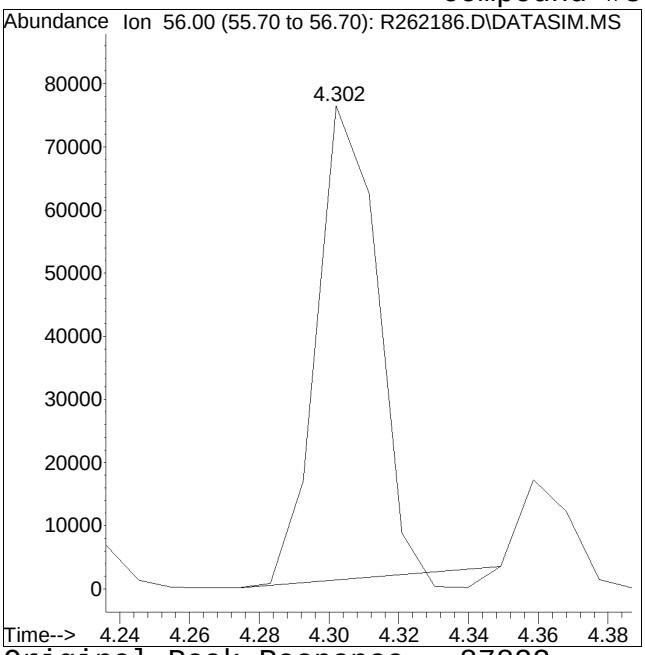
Manual Peak Response = 51186 M6

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

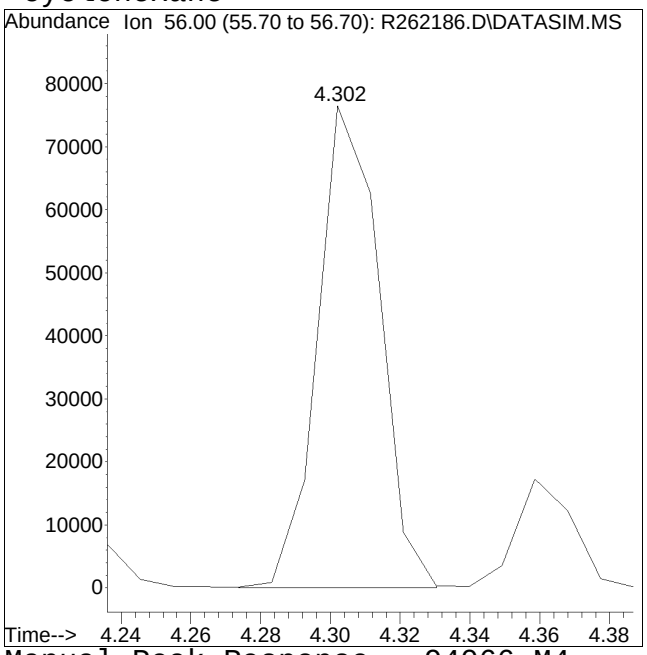
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #39: cyclohexane



Original Peak Response = 87822



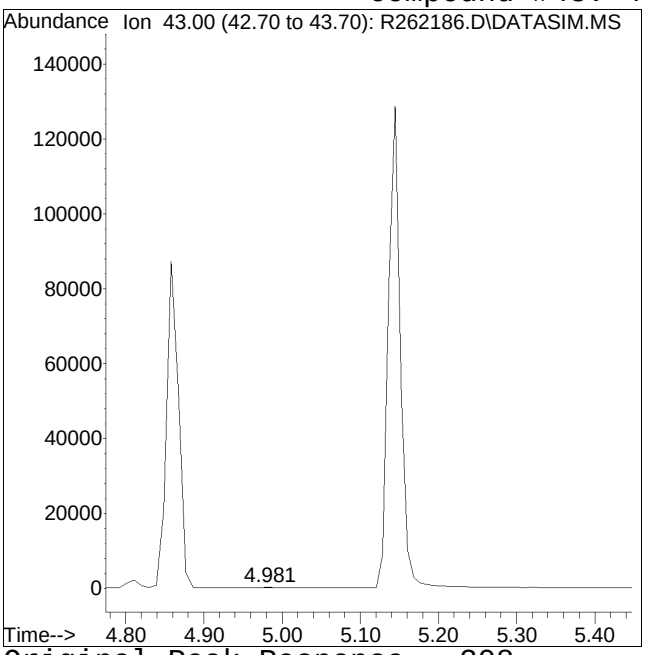
Manual Peak Response = 94066 M4

M4 = Poor automated baseline construction.

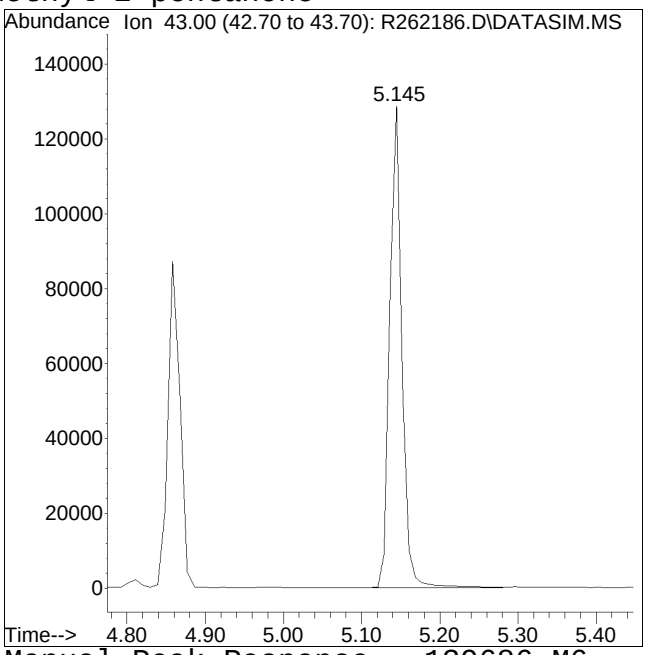
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 308



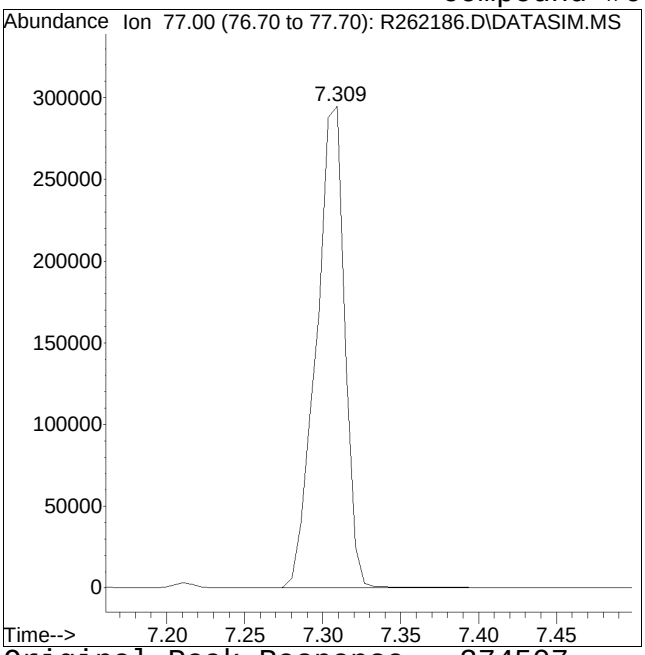
Manual Peak Response = 139686 M6

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

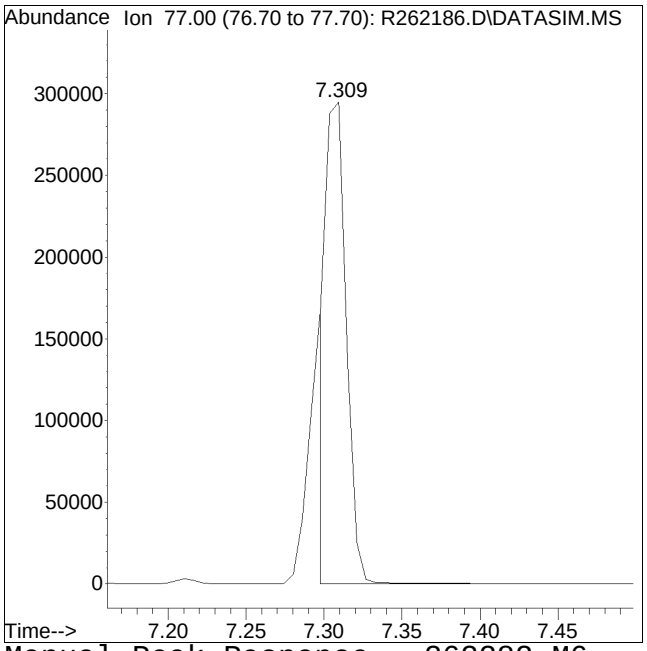
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #69: Bromobenzene



Original Peak Response = 374507



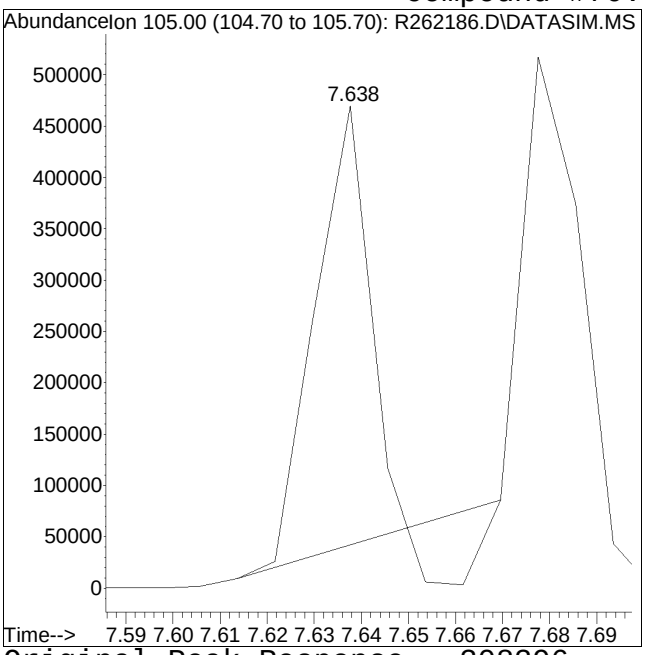
Manual Peak Response = 262282 M6

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

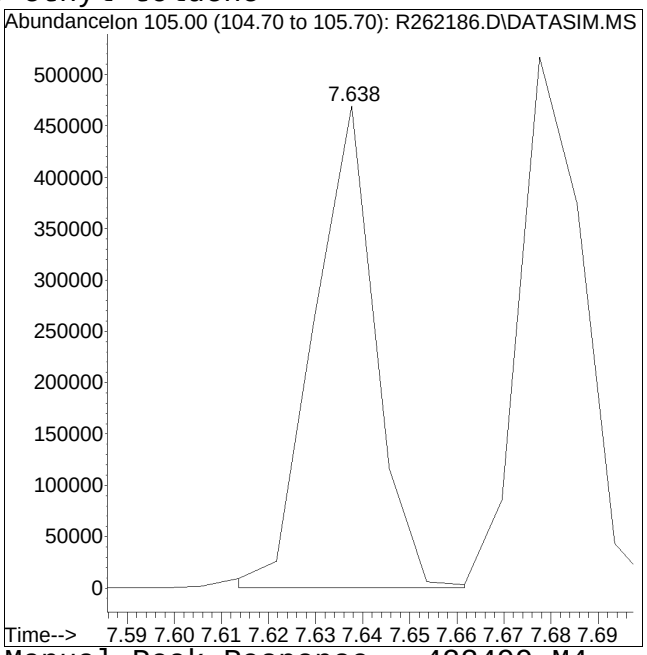
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 308396



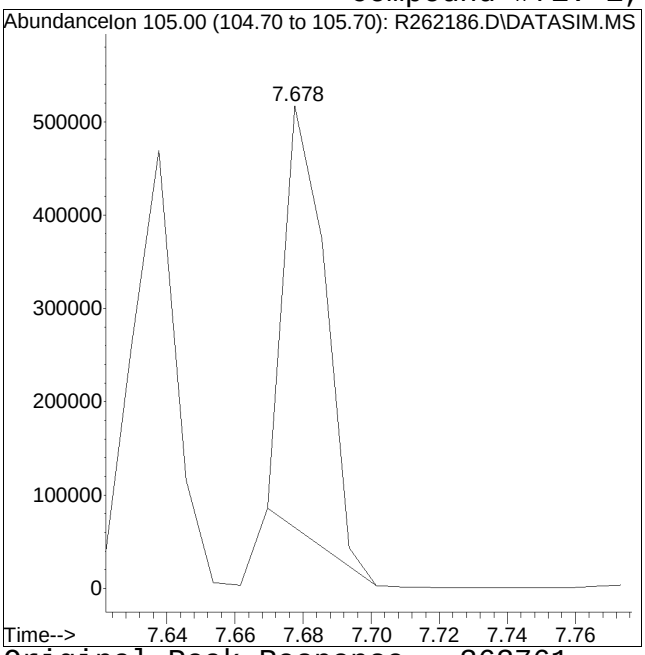
Manual Peak Response = 422499 M4

M4 = Poor automated baseline construction.

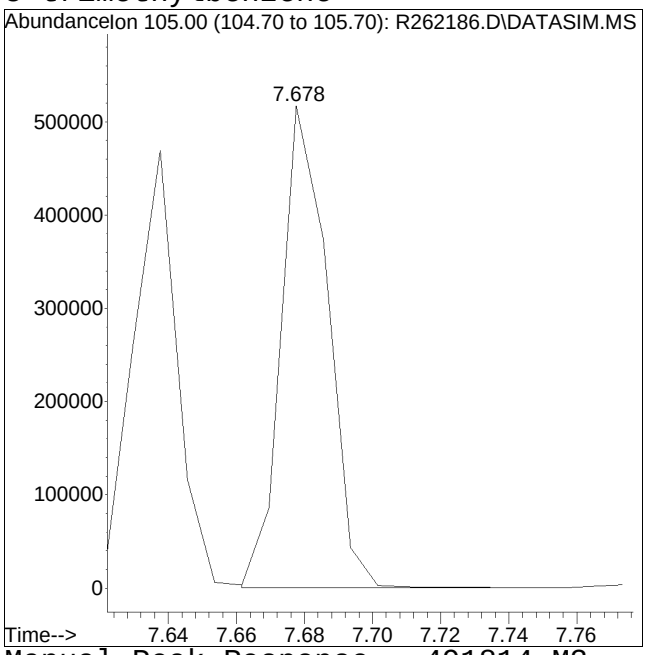
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 363761



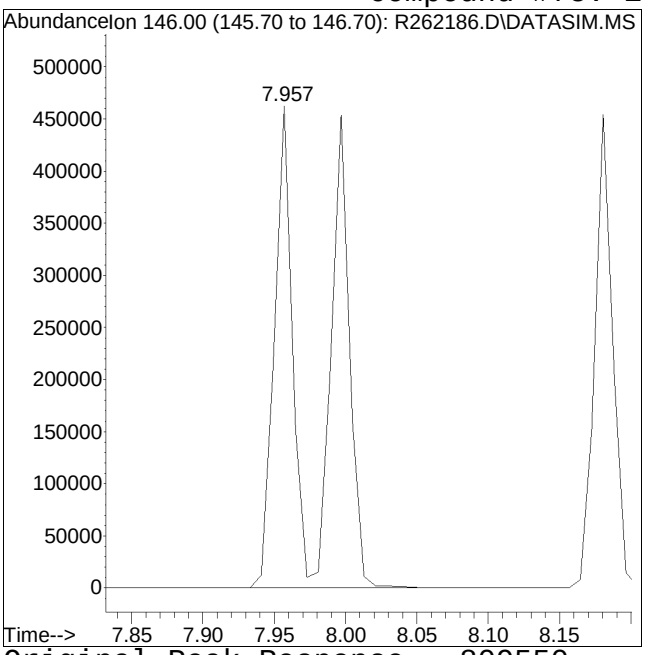
Manual Peak Response = 491814 M3

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.

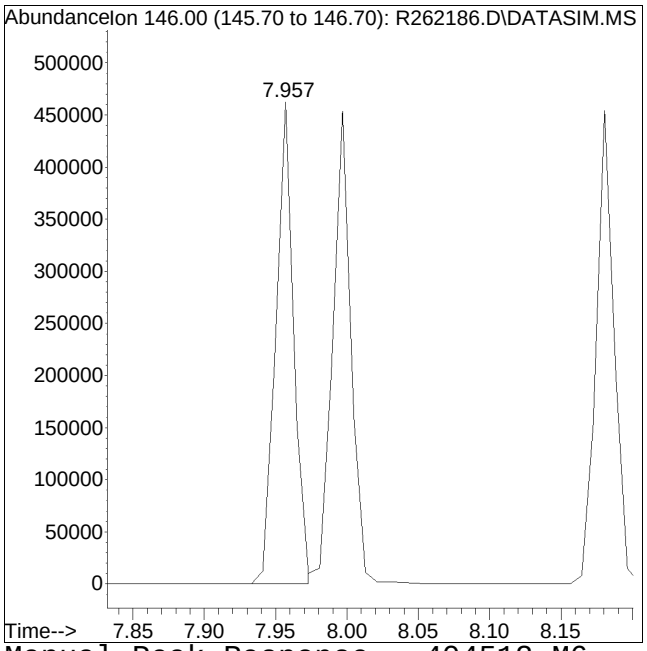
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 809550



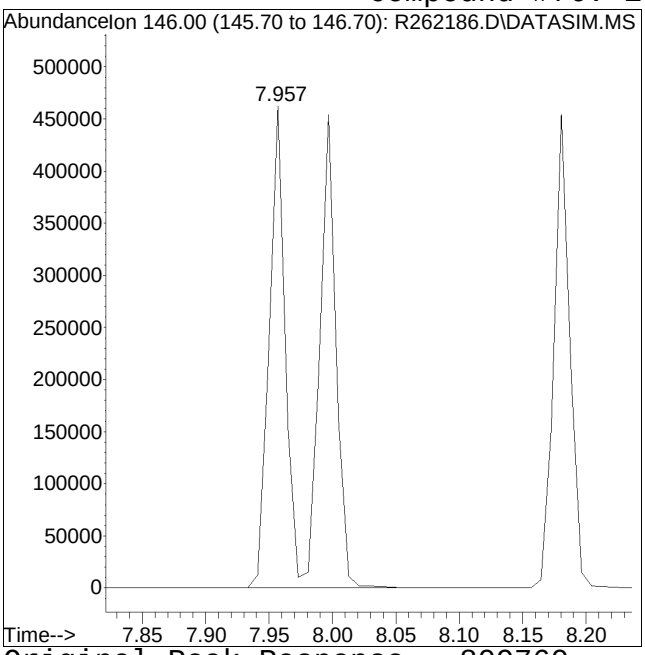
Manual Peak Response = 404512 M6

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

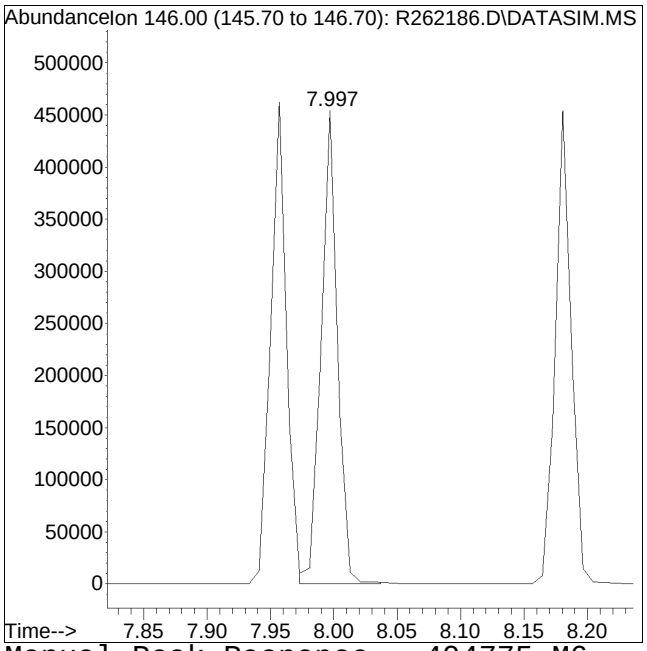
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262186.D Operator : AIRLAB26:APR
Date Inj'd : 3/14/2025 11:50 pm Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 3/18/2025 12:12 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 809760



Manual Peak Response = 404775 M6

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

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:18:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	278735	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 103.61%			
33) 1,4-difluorobenzene	4.368	114	1004175	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 106.57%			
51) chlorobenzene-D5	6.452	54	148854	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 103.19%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	318278	10.039	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.39%			
53) toluene-D8	5.544	98	812650	10.328	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.28%			
67) bromofluorobenzene	7.210	95	540133	10.150	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.50%			
Target Compounds						Qvalue
2) propylene	2.004	41	45099	11.188	ppbV	100
3) dichlorodifluoromethane	2.026	85	534579	10.343	ppbV	100
4) chloromethane	2.076	50	176671M4	9.732	ppbV	
5) Freon-114	2.109	85	701740	9.950	ppbV	98
6) vinyl chloride	2.147	62	228976	9.890	ppbV	100
7) 1,3-butadiene	2.191	54	104612	10.052	ppbV	99
8) bromomethane	2.273	94	235711	9.909	ppbV	99
9) chloroethane	2.328	64	125000	9.833	ppbV	100
10) ethanol	2.361	31	516469	45.048	ppbV	100
11) vinyl bromide	2.439	106	202541	9.882	ppbV	100
12) acrolein	2.468	56	116074	9.890	ppbV	98
13) acetone	2.502	43	1365327	48.834	ppbV	100
14) trichlorofluoromethane	2.558	101	918050	9.855	ppbV	100
15) isopropyl alcohol	2.570	45	743904	22.734	ppbV	100
16) acrylonitrile	2.632	53	240408	10.322	ppbV	95
17) 1,1-dichloroethene	2.729	61	557497	9.815	ppbV	100
18) tertiary butyl alcohol	2.738	59	652389	9.088	ppbV	100
19) methylene chloride	2.762	49	408295	10.552	ppbV	93
20) 3-chloropropene	2.800	41	248215	9.913	ppbV	100
21) carbon disulfide	2.848	76	684695	9.841	ppbV	99
22) Freon 113	2.848	101	764875	9.741	ppbV	100
23) trans-1,2-dichloroethene	3.064	61	366640	9.839	ppbV	100
24) 1,1-dichloroethane	3.131	63	656581	9.768	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:18:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	660037	9.838	ppbV	#	25
26) vinyl acetate	3.197	43	461388M4	10.189	ppbV		
27) 2-butanone	3.281	43	310232	10.394	ppbV		99
28) cis-1,2-dichloroethene	3.443	61	278933	10.162	ppbV		100
29) Ethyl Acetate	3.555	61	46850M6	9.118	ppbV		
30) chloroform	3.562	83	489286	10.039	ppbV		100
31) Tetrahydrofuran	3.727	42	109499M6	10.324	ppbV		
32) 1,2-dichloroethane	3.871	62	299982	9.958	ppbV		96
34) hexane	3.548	57	192952	10.036	ppbV		99
36) 1,1,1-trichloroethane	3.985	97	509199	9.946	ppbV		99
37) benzene	4.180	78	662877	9.962	ppbV		100
38) carbon tetrachloride	4.255	117	528418	10.114	ppbV		100
39) cyclohexane	4.311	56	195854	9.768	ppbV		94
40) Dibromomethane	4.547	93	295643	9.849	ppbV	#	96
41) 1,2-dichloropropane	4.566	63	236187	9.956	ppbV		100
42) bromodichloromethane	4.651	83	375043	10.100	ppbV		98
43) 1,4-dioxane	4.688	88	103036	9.844	ppbV		98
44) trichloroethene	4.688	130	348521	10.047	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	633232	10.022	ppbV	#	95
46) heptane	4.858	43	202879	9.997	ppbV		99
47) cis-1,3-dichloropropene	5.105	75	365549	10.255	ppbV		99
48) 4-methyl-2-pentanone	5.145	43	300316M4	10.087	ppbV		
49) trans-1,3-dichloropropene	5.376	75	300760	10.430	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	309303	9.881	ppbV		99
52) toluene	5.592	91	845912	10.206	ppbV		100
54) 2-hexanone	5.751	43	296726	10.551	ppbV	#	56
55) dibromochloromethane	5.783	129	397302	10.445	ppbV		100
56) 1,2-dibromoethane	5.895	107	501952	10.375	ppbV		100
57) tetrachloroethene	6.142	166	462730	10.498	ppbV		98
58) 1,1,1,2-tetrachloroethane	6.468	131	396286	10.611	ppbV	#	99
59) chlorobenzene	6.474	112	748477	10.272	ppbV		98
60) ethylbenzene	6.676	91	1149035	10.322	ppbV		99
61) m+p-xylene	6.763	91	1880680	20.663	ppbV		99
62) bromoform	6.763	173	381921	10.975	ppbV		100
63) styrene	6.937	104	678488	10.510	ppbV		100
64) 1,1,2,2-tetrachloroethane	6.983	83	715018	10.322	ppbV		100
65) o-xylene	6.989	91	902633	10.257	ppbV		99
66) 1,2,3-Trichloropropane	7.047	75	492623	10.278	ppbV		99
68) isopropylbenzene	7.298	105	1270649	10.379	ppbV		97
69) Bromobenzene	7.309	77	785707	14.516	ppbV	#	5

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 18 12:18:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

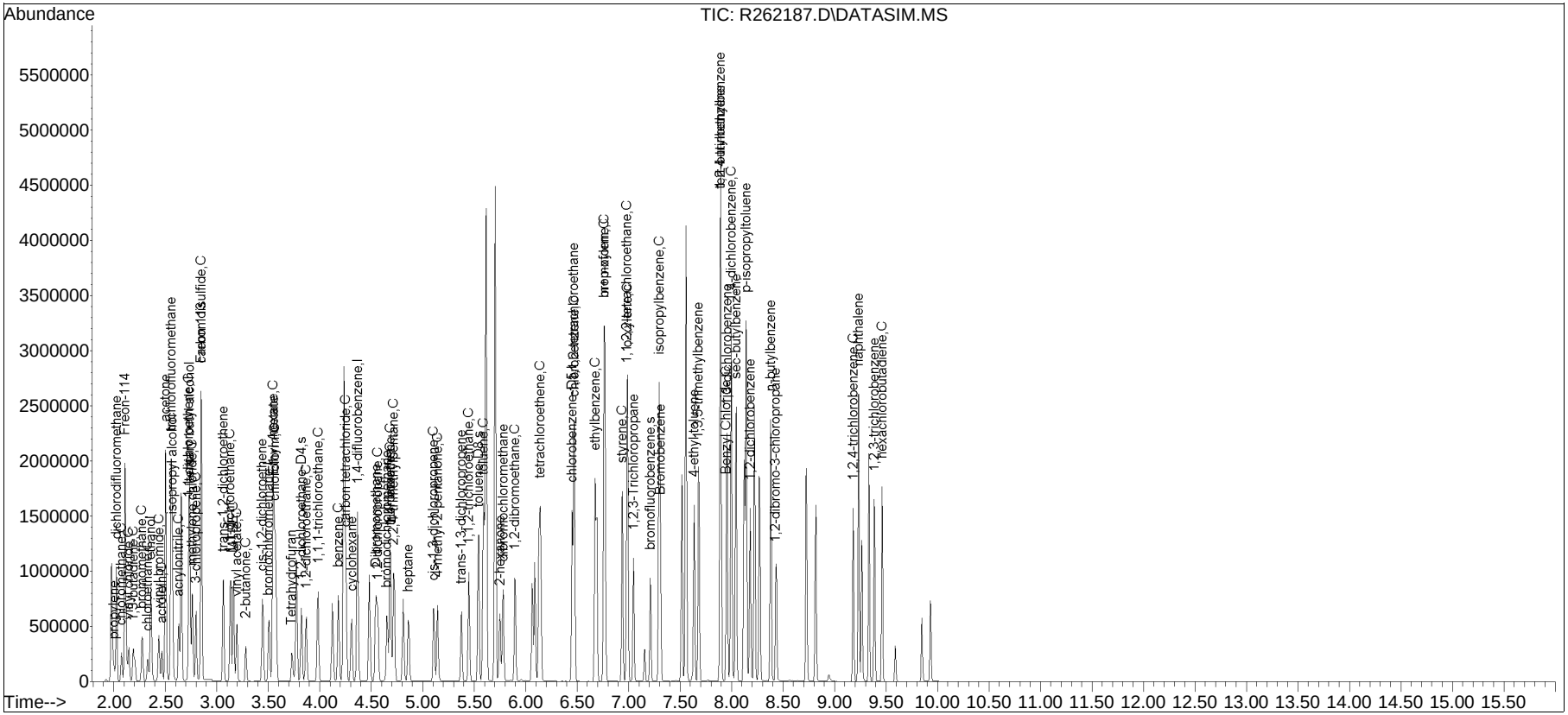
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	911365M4	10.452	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	1032583	10.173	ppbV	#	62
72) tert-butylbenzene	7.893	119	1171595	10.331	ppbV		99
73) 1,2,4-trimethylbenzene	7.893	105	1100623	10.306	ppbV		99
74) Benzyl Chloride	7.949	91	527130	11.654	ppbV		99
75) 1,3-dichlorobenzene	7.957	146	875078M4	10.482	ppbV		
76) 1,4-dichlorobenzene	7.997	146	896394M4	10.731	ppbV		
77) sec-butylbenzene	8.045	105	1602673	10.171	ppbV		98
78) p-isopropyltoluene	8.141	119	1497194	10.283	ppbV		99
79) 1,2-dichlorobenzene	8.181	146	856774	10.399	ppbV		99
80) n-butylbenzene	8.380	91	1322145	10.151	ppbV		97
81) 1,2-dibromo-3-chloropr...	8.428	75	361493	10.534	ppbV		95
82) 1,2,4-trichlorobenzene	9.180	180	810794	11.223	ppbV		99
83) naphthalene	9.233	128	1823353	11.043	ppbV		100
84) 1,2,3-trichlorobenzene	9.385	180	887676	9.961	ppbV		99
85) hexachlorobutadiene	9.461	225	661982	10.712	ppbV		97

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262187.D
Acq On : 15 Mar 2025 12:26 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD010
Misc : WG2042597
ALS Vial : 7 Sample Multiplier: 1

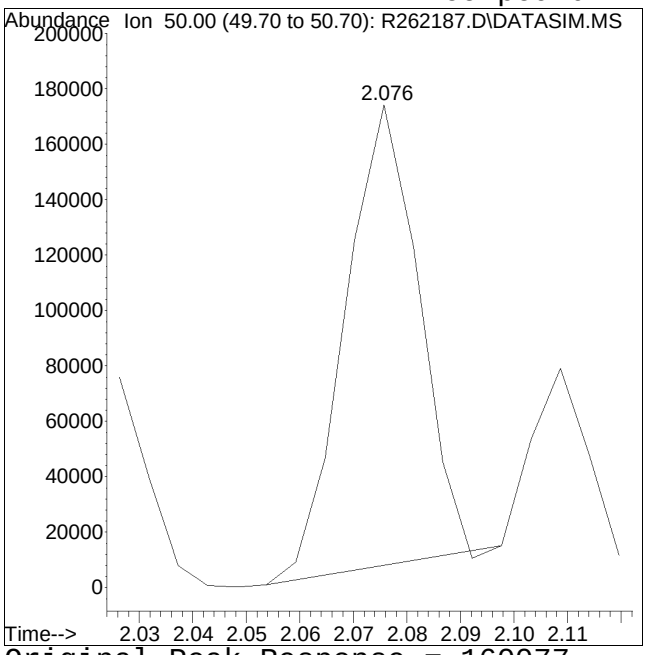
Quant Time: Mar 18 12:18:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration



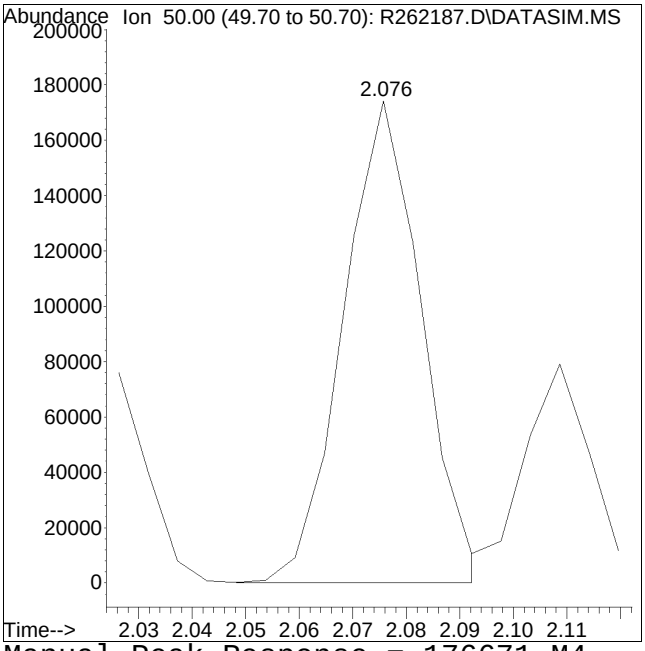
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #4: chloromethane



Original Peak Response = 160077



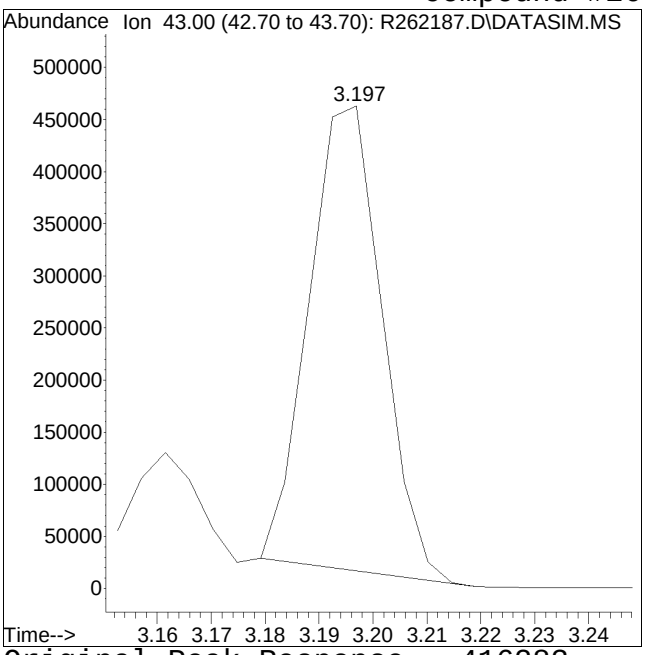
Manual Peak Response = 176671 M4

M4 = Poor automated baseline construction.

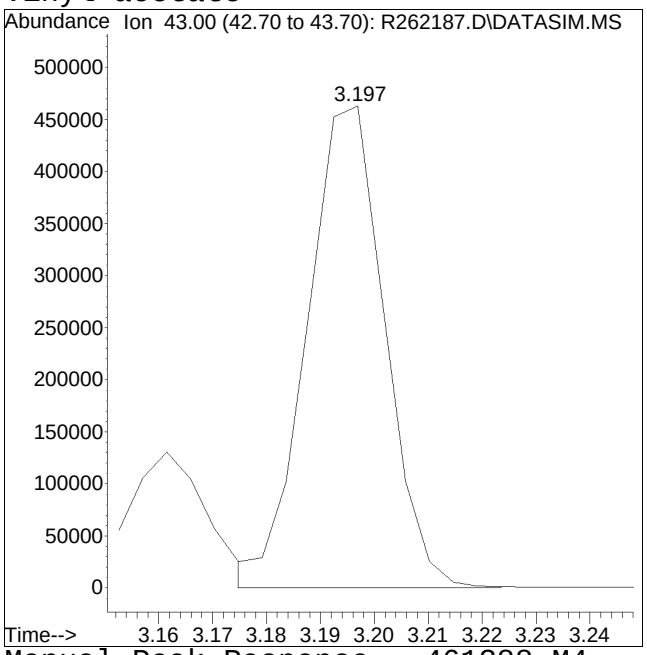
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #26: vinyl acetate



Original Peak Response = 416283



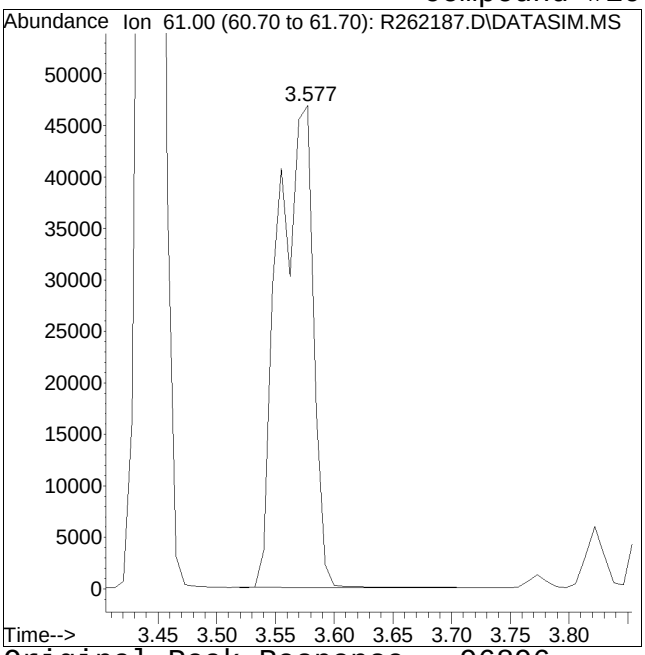
Manual Peak Response = 461388 M4

M4 = Poor automated baseline construction.

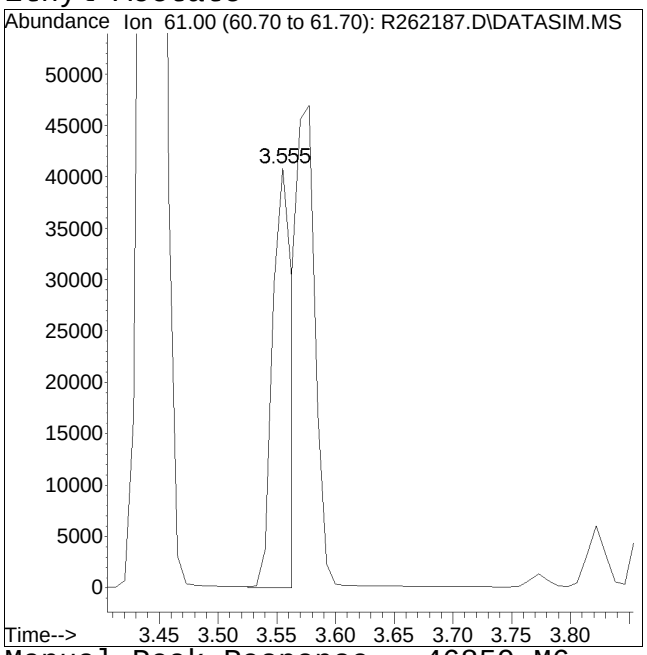
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #29: Ethyl Acetate



Original Peak Response = 96896



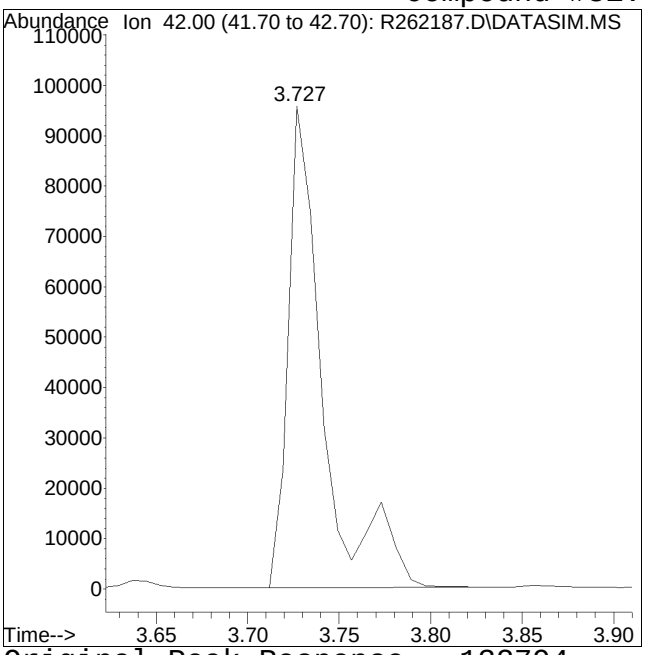
Manual Peak Response = 46850 M6

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

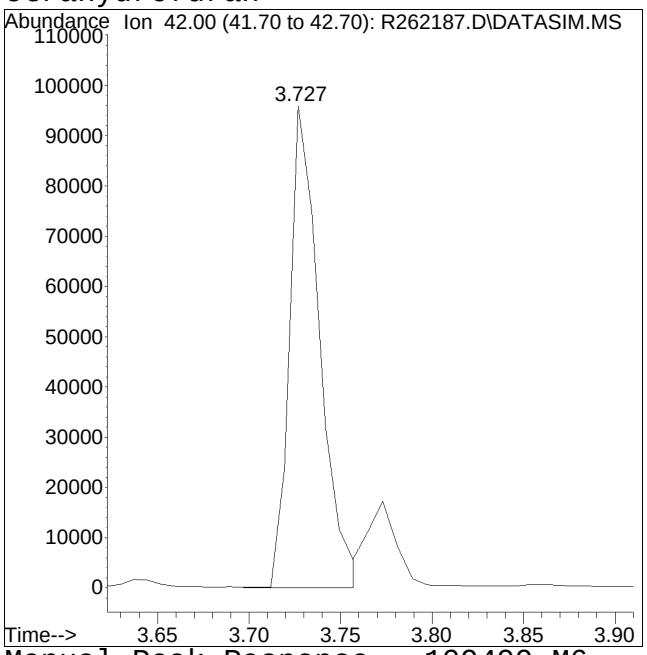
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 132794



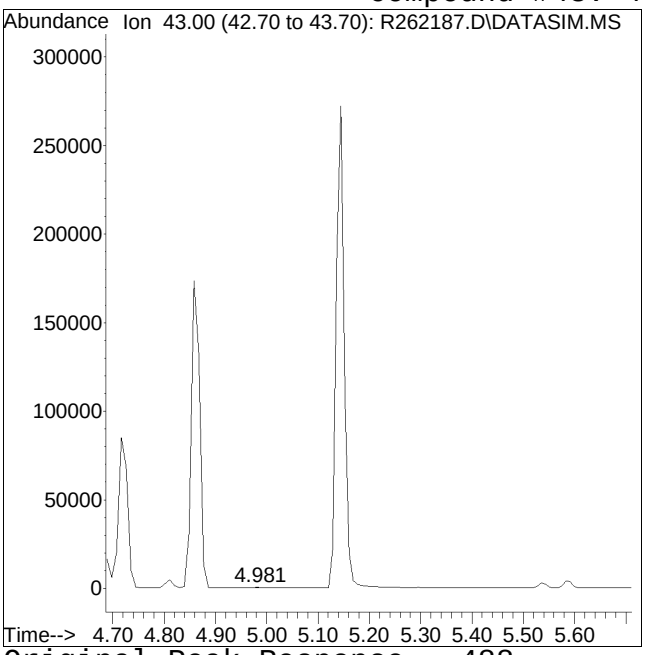
Manual Peak Response = 109499 M6

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

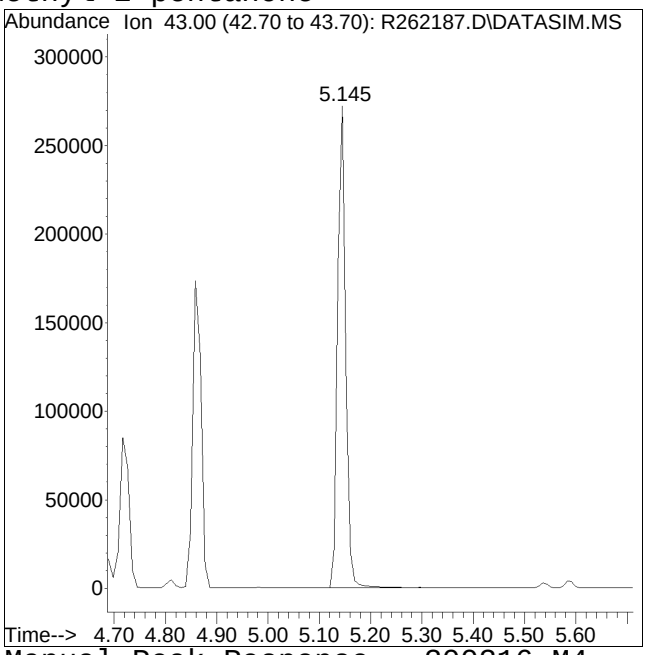
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 488



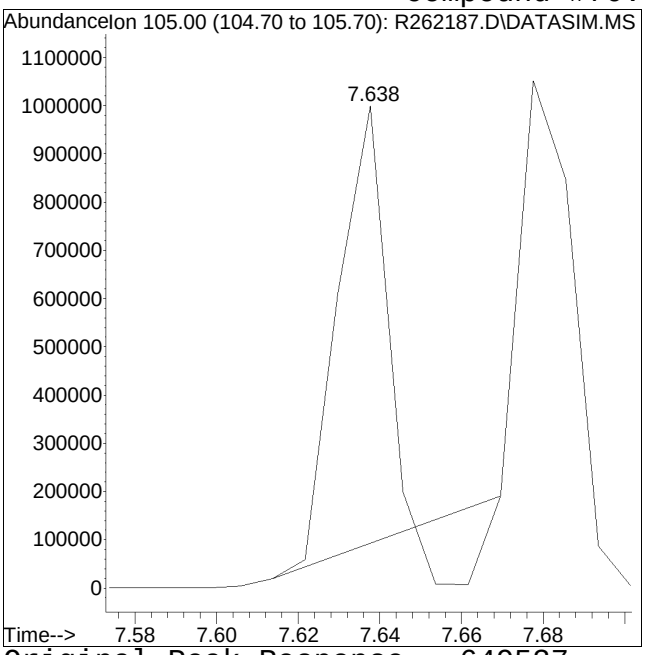
Manual Peak Response = 300316 M4

M4 = Poor automated baseline construction.

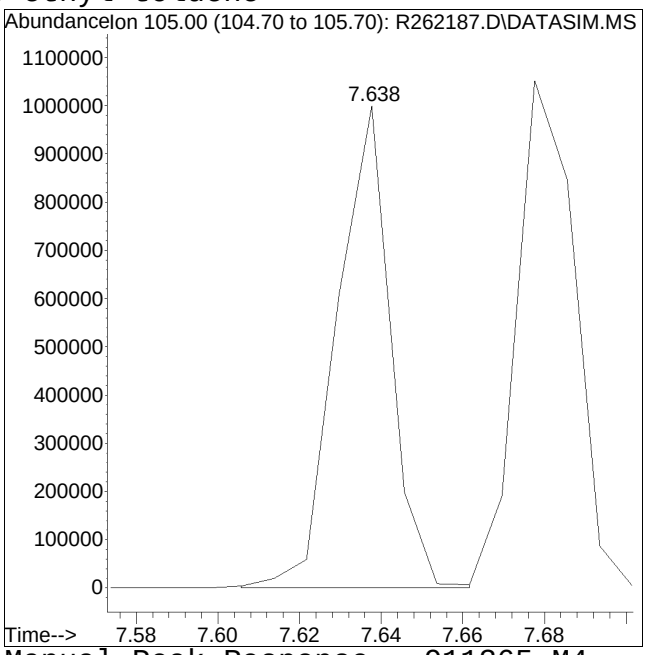
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 649537



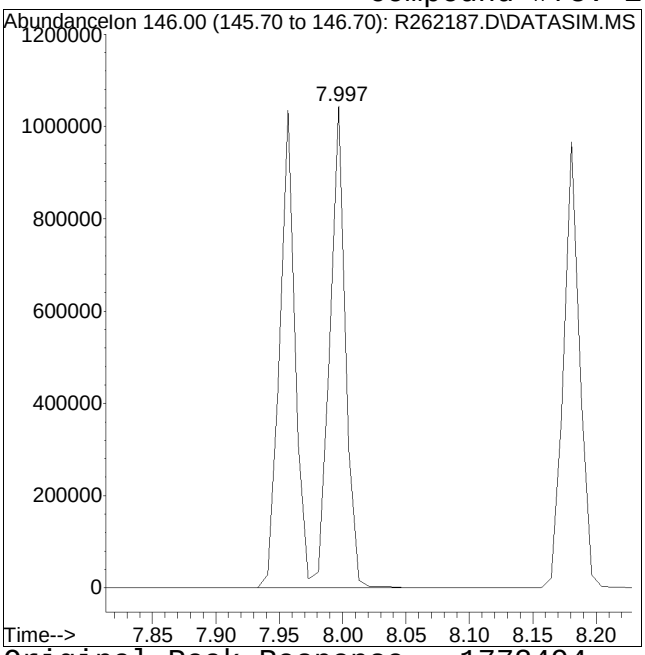
Manual Peak Response = 911365 M4

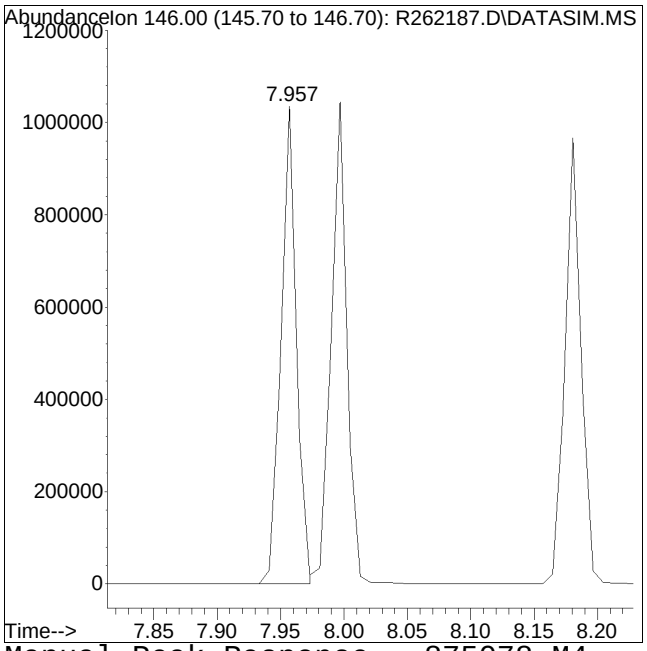
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #75: 1,3-dichlorobenzene



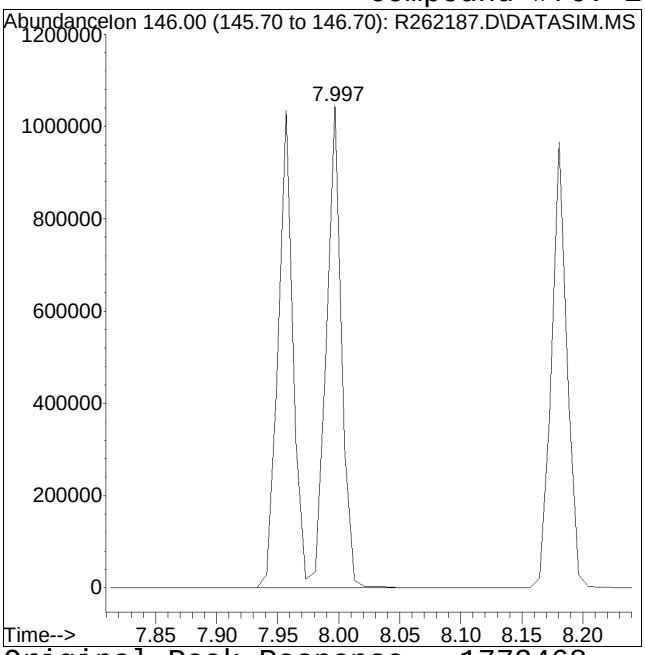


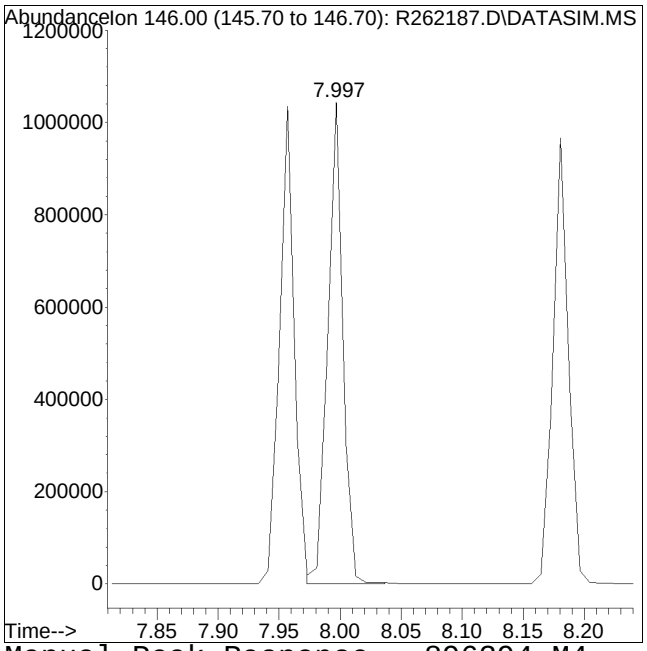
Original Peak Response = 1772494 Manual Peak Response = 875078 M4
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262187.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:26 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 3/18/2025 12:18 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 1772468 Manual Peak Response = 896394 M4
M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	288599	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 107.28%			
33) 1,4-difluorobenzene	4.368	114	1050944	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 111.54%			
51) chlorobenzene-D5	6.452	54	151792	10.000	ppbV	# 0.00
Standard Area = 144255			Recovery = 105.22%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	335719	10.118	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.18%			
53) toluene-D8	5.544	98	837407	10.436	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.36%			
67) bromofluorobenzene	7.210	95	548185	10.101	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.01%			
Target Compounds						Qvalue
2) propylene	2.004	41	133159	31.904	ppbV	97
3) dichlorodifluoromethane	2.026	85	1078946	20.161	ppbV	99
4) chloromethane	2.076	50	352094M4	18.732	ppbV	
5) Freon-114	2.109	85	1400663	19.182	ppbV	97
6) vinyl chloride	2.147	62	457898	19.101	ppbV	99
7) 1,3-butadiene	2.186	54	280281	26.011	ppbV	89
8) bromomethane	2.273	94	474758	19.277	ppbV	99
9) chloroethane	2.328	64	250799	19.055	ppbV	100
10) ethanol	2.356	31	1149468	96.833	ppbV	100
11) vinyl bromide	2.434	106	530642	25.005	ppbV	100
12) acrolein	2.462	56	234987	19.337	ppbV	98
13) acetone	2.502	43	3510857	121.282	ppbV	99
14) trichlorofluoromethane	2.553	101	1811109	18.778	ppbV	99
15) isopropyl alcohol	2.564	45	2081753	61.444	ppbV	100
16) acrylonitrile	2.626	53	484649	20.097	ppbV	95
17) 1,1-dichloroethene	2.729	61	1092507	18.576	ppbV	100
18) tertiary butyl alcohol	2.738	59	1422755	19.141	ppbV	98
19) methylene chloride	2.762	49	736683	18.388	ppbV	100
20) 3-chloropropene	2.796	41	652242	25.158	ppbV	99
21) carbon disulfide	2.848	76	1774519	24.632	ppbV	99
22) Freon 113	2.848	101	1492415	18.357	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	944853	24.490	ppbV	99
24) 1,1-dichloroethane	3.131	63	1277482	18.355	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	1723947	24.818	ppbV		100
26) vinyl acetate	3.193	43	1313982M6	28.024	ppbV		
27) 2-butanone	3.277	43	826530	26.747	ppbV		97
28) cis-1,2-dichloroethene	3.443	61	567189	19.957	ppbV		99
29) Ethyl Acetate	3.548	61	138040M4	25.948	ppbV		
30) chloroform	3.563	83	998605	19.789	ppbV		99
31) Tetrahydrofuran	3.727	42	307593M6	28.009	ppbV		
32) 1,2-dichloroethane	3.871	62	603613	19.353	ppbV	#	92
34) hexane	3.540	57	535975	26.638	ppbV		83
36) 1,1,1-trichloroethane	3.985	97	1050826	19.611	ppbV		98
37) benzene	4.180	78	1352222	19.417	ppbV		98
38) carbon tetrachloride	4.255	117	1080654	19.763	ppbV		98
39) cyclohexane	4.302	56	534283	25.462	ppbV		94
40) Dibromomethane	4.538	93	615880	19.604	ppbV	#	91
41) 1,2-dichloropropane	4.566	63	478545	19.275	ppbV		100
42) bromodichloromethane	4.651	83	999669	25.723	ppbV		100
43) 1,4-dioxane	4.679	88	296720	27.088	ppbV		97
44) trichloroethene	4.679	130	720245	19.838	ppbV		99
45) 2,2,4-trimethylpentane	4.717	57	1723064	26.058	ppbV		98
46) heptane	4.858	43	549006	25.848	ppbV		99
47) cis-1,3-dichloropropene	5.105	75	763798	20.473	ppbV		98
48) 4-methyl-2-pentanone	5.145	43	808247M3	25.939	ppbV		
49) trans-1,3-dichloropropene	5.376	75	637648	21.129	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	637055	19.445	ppbV		99
52) toluene	5.592	91	1705845	20.184	ppbV		99
54) 2-hexanone	5.743	43	789383	27.525	ppbV	#	84
55) dibromochloromethane	5.783	129	1097396	28.293	ppbV		99
56) 1,2-dibromoethane	5.895	107	1012671	20.526	ppbV		100
57) tetrachloroethene	6.142	166	950142	21.138	ppbV		97
58) 1,1,1,2-tetrachloroethane	6.468	131	833179	21.877	ppbV	#	100
59) chlorobenzene	6.474	112	1507835	20.294	ppbV		98
60) ethylbenzene	6.676	91	2284394	20.124	ppbV		98
61) m+p-xylene	6.763	91	3730034	40.188	ppbV		98
62) bromoform	6.763	173	1087353	30.641	ppbV		99
63) styrene	6.937	104	1393074	21.161	ppbV		100
64) 1,1,2,2-tetrachloroethane	6.983	83	1437372	20.348	ppbV		99
65) o-xylene	6.989	91	1809565	20.164	ppbV		99
66) 1,2,3-Trichloropropane	7.048	75	990516	20.265	ppbV		99
68) isopropylbenzene	7.298	105	2515949	20.154	ppbV		99
69) Bromobenzene	7.309	77	1126132M6	20.402	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

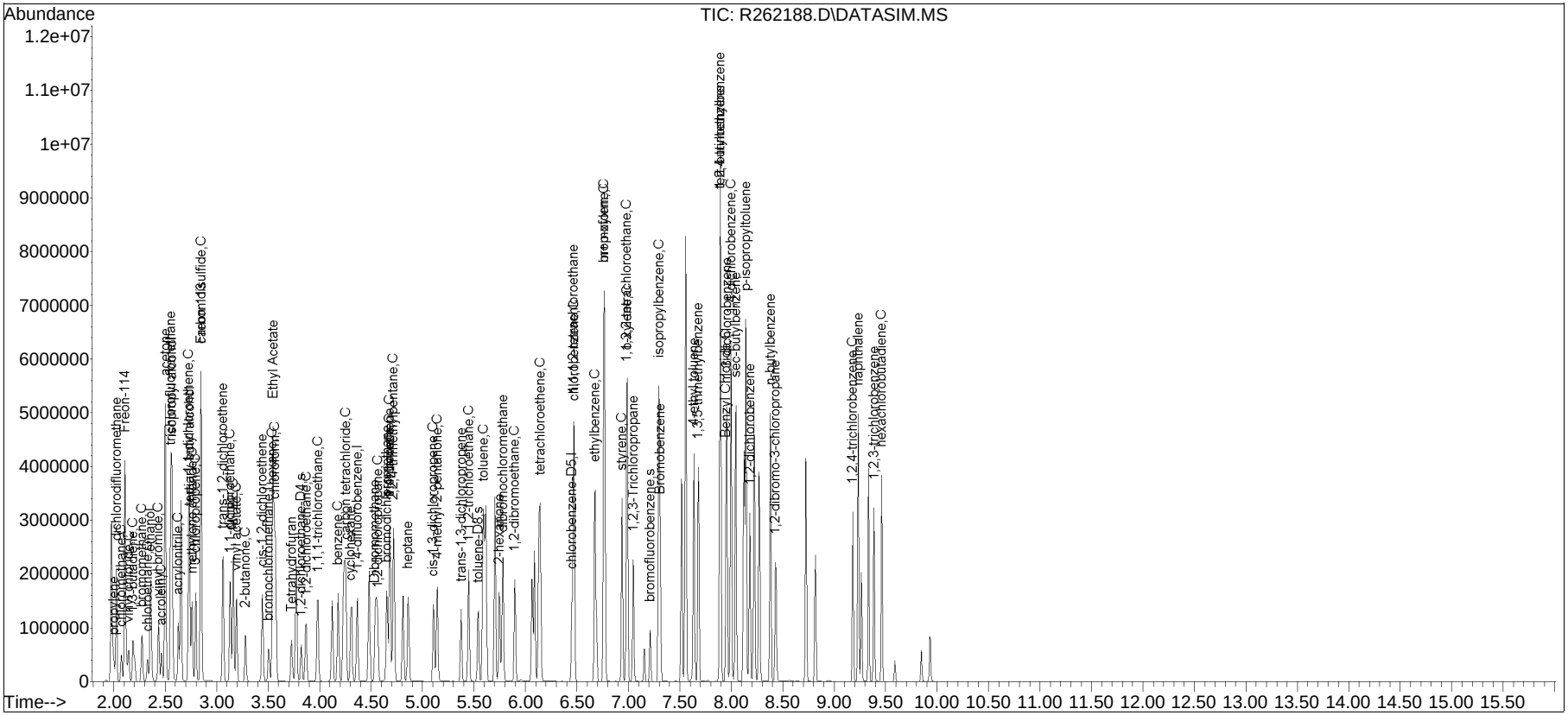
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	2395584M4	26.942	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	2084917	20.144	ppbV	#	49
72) tert-butylbenzene	7.893	119	2403833	20.787	ppbV		97
73) 1,2,4-trimethylbenzene	7.893	105	2232599	20.501	ppbV		99
74) Benzyl Chloride	7.949	91	1608227	34.866	ppbV		98
75) 1,3-dichlorobenzene	7.957	146	1729419M3	20.315	ppbV		
76) 1,4-dichlorobenzene	7.997	146	1813125M3	21.285	ppbV		
77) sec-butylbenzene	8.045	105	3239164	20.159	ppbV		97
78) p-isopropyltoluene	8.141	119	3019343	20.337	ppbV		98
79) 1,2-dichlorobenzene	8.181	146	1698030	20.211	ppbV		99
80) n-butylbenzene	8.380	91	2686659	20.229	ppbV		96
81) 1,2-dibromo-3-chloropr...	8.428	75	749157	21.408	ppbV		95
82) 1,2,4-trichlorobenzene	9.180	180	1635207	22.196	ppbV		98
83) naphthalene	9.233	128	3553273	21.103	ppbV		100
84) 1,2,3-trichlorobenzene	9.385	180	1702926	18.739	ppbV		99
85) hexachlorobutadiene	9.461	225	1353679	21.482	ppbV		95

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262188.D
Acq On : 15 Mar 2025 12:58 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD020
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

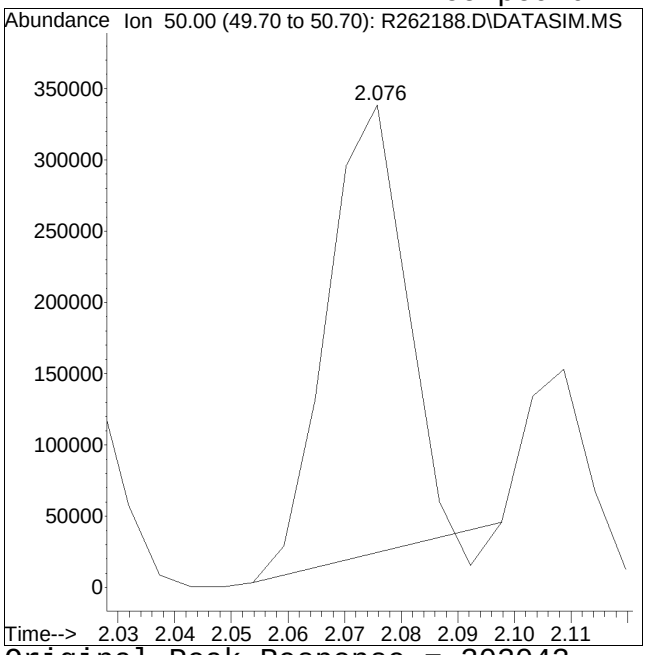


Manual Integration Report

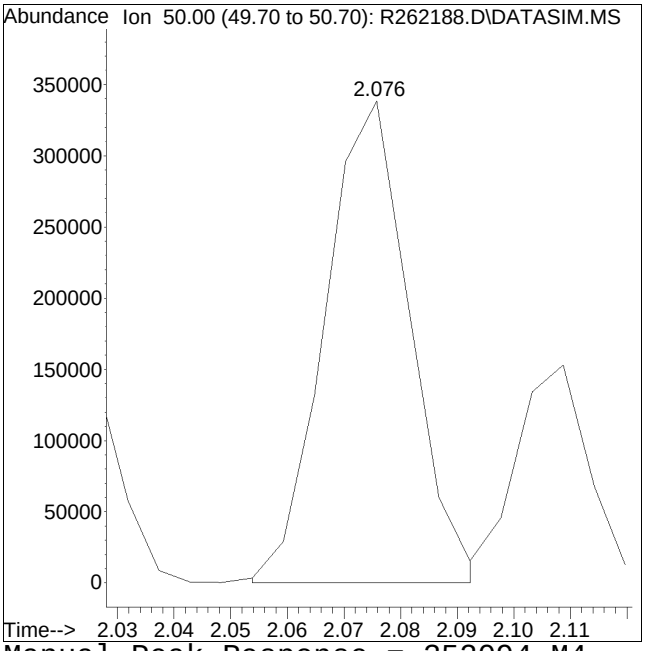
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262188.D
Date Inj'd : 3/15/2025 12:58 am
Sample : ITO15-LLSTD020

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #4: chloromethane



Original Peak Response = 303043



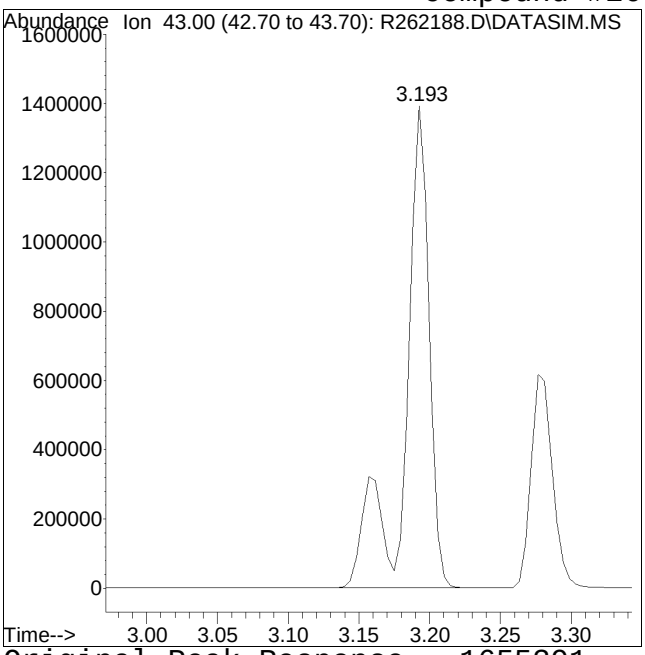
Manual Peak Response = 352094 M4

M4 = Poor automated baseline construction.

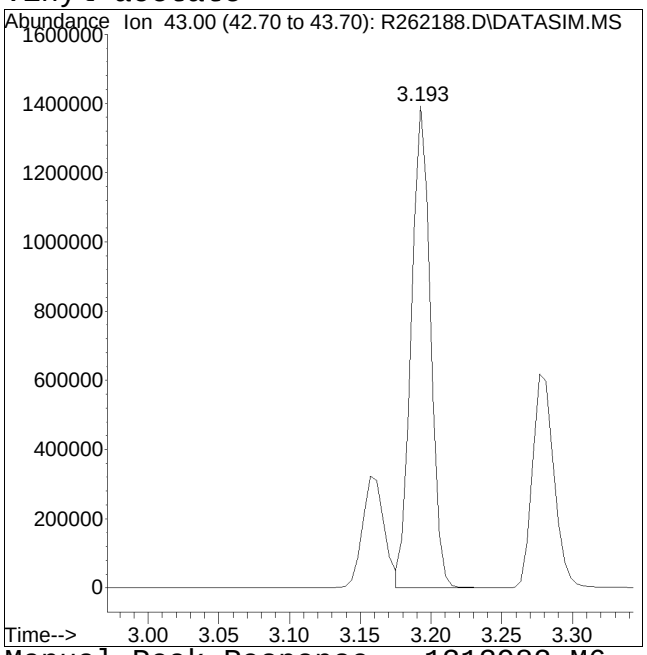
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #26: vinyl acetate



Original Peak Response = 1655391



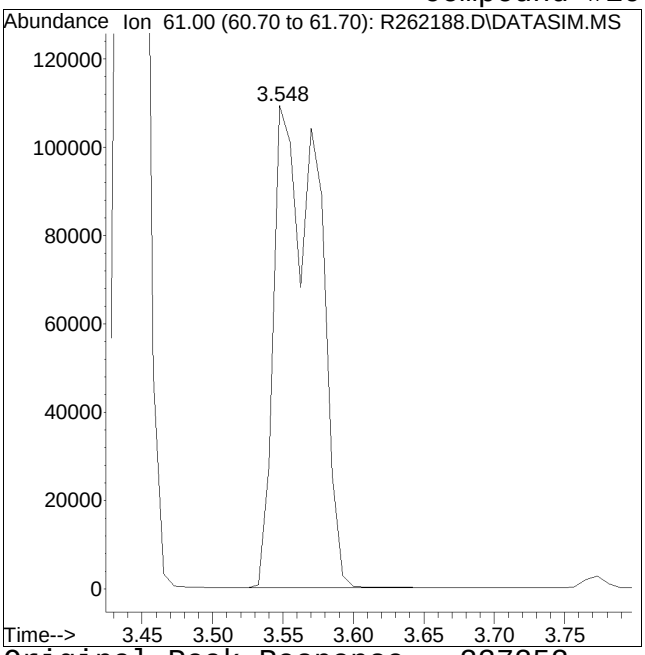
Manual Peak Response = 1313982 M6

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

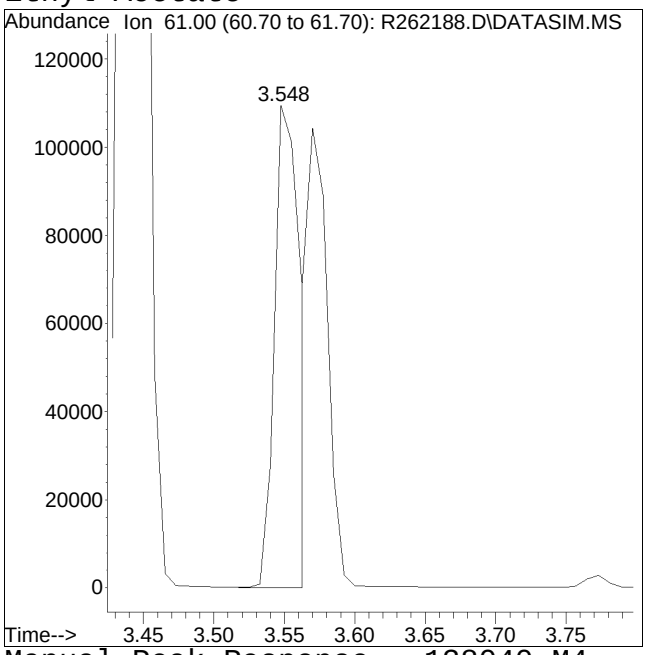
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #29: Ethyl Acetate



Original Peak Response = 237252



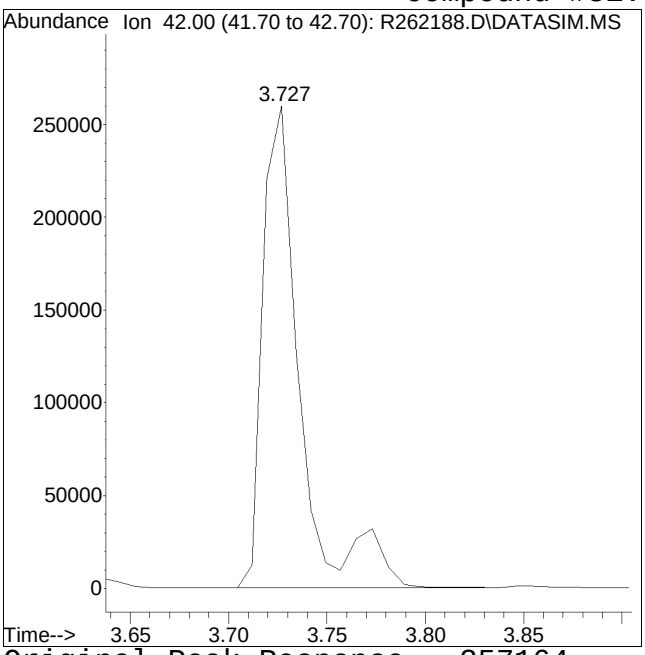
Manual Peak Response = 138040 M4

M4 = Poor automated baseline construction.

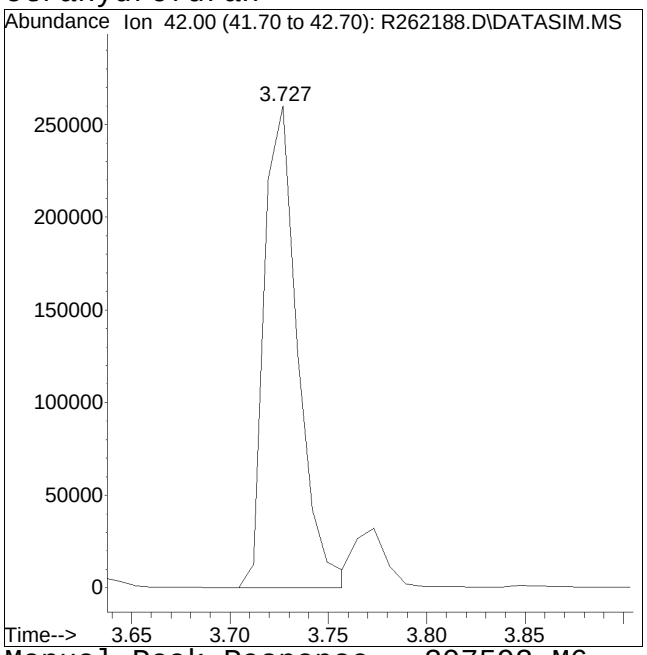
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 357164



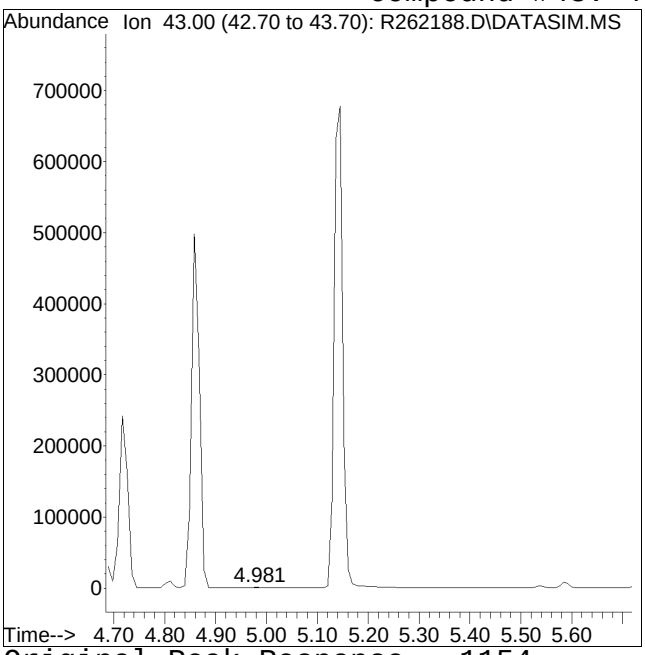
Manual Peak Response = 307593 M6

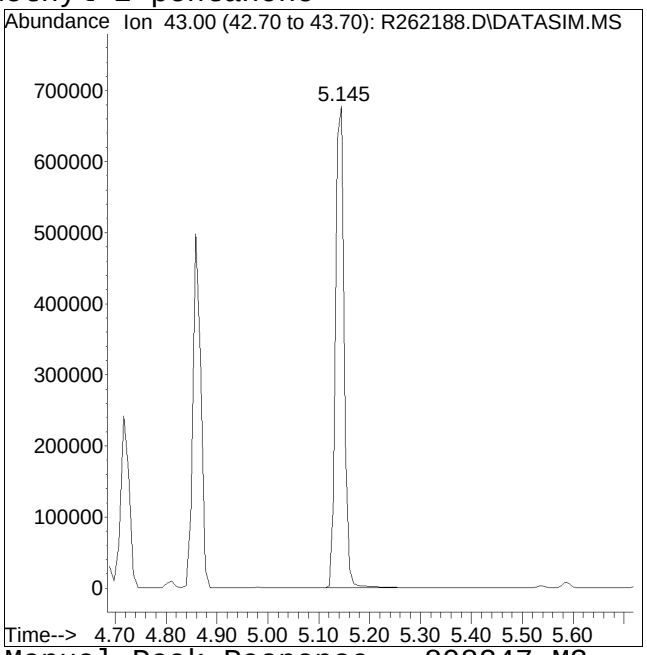
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #48: 4-methyl-2-pentanone





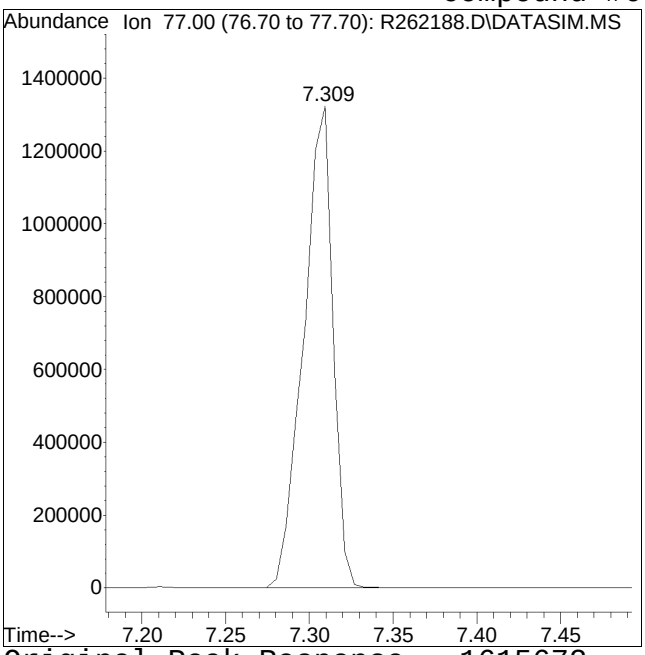
Original Peak Response = 1154 Manual Peak Response = 808247 M3

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.

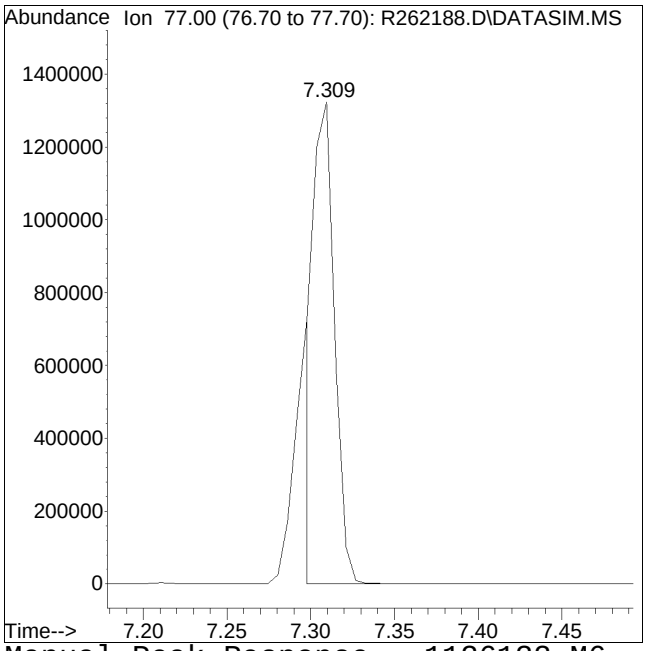
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #69: Bromobenzene



Original Peak Response = 1615672



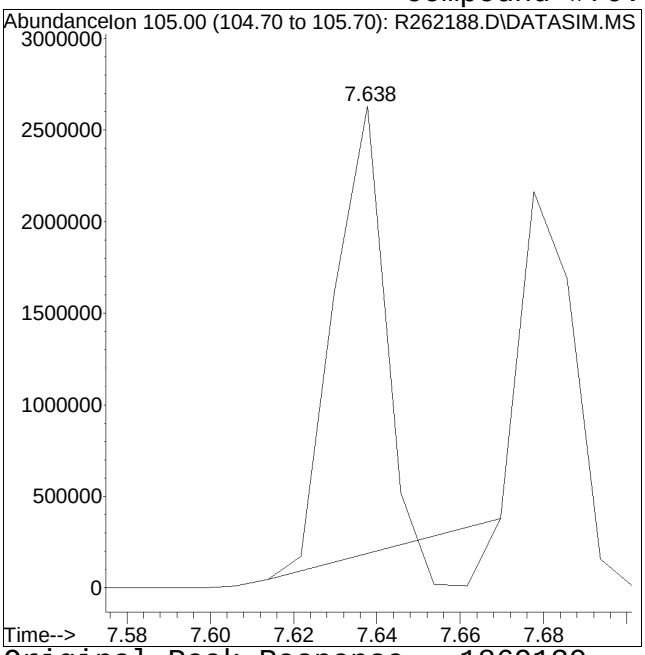
Manual Peak Response = 1126132 M6

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

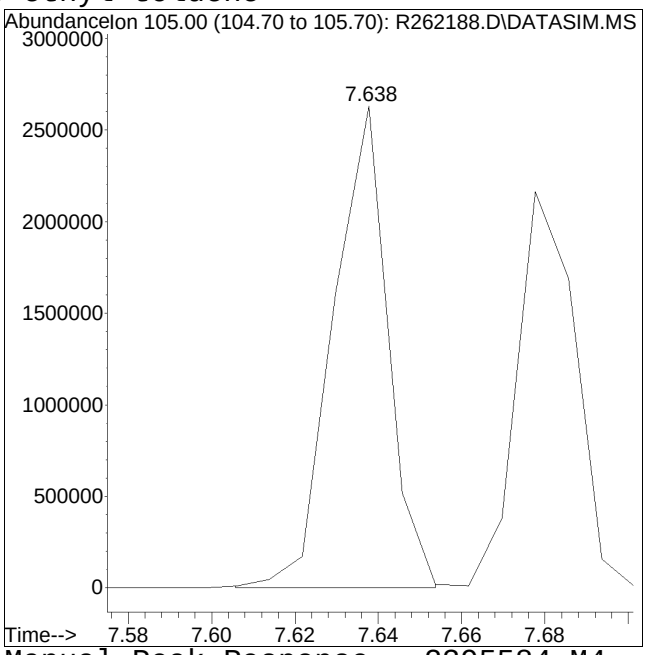
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1869139



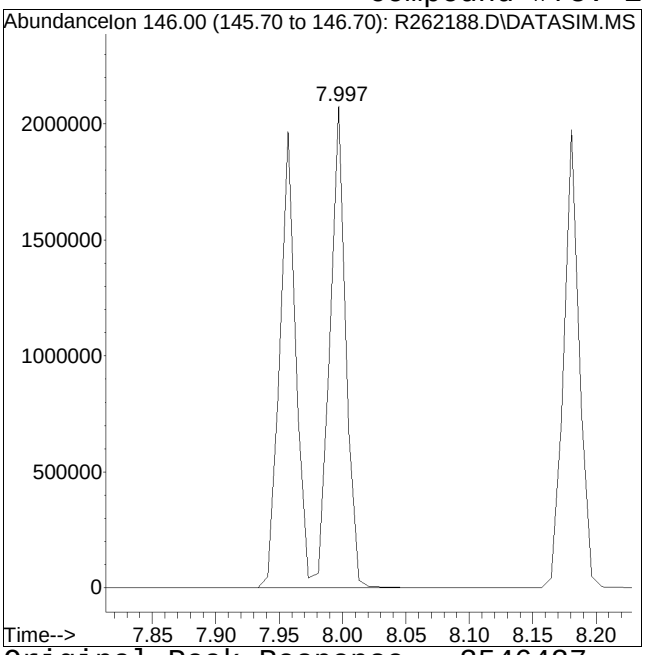
Manual Peak Response = 2395584 M4

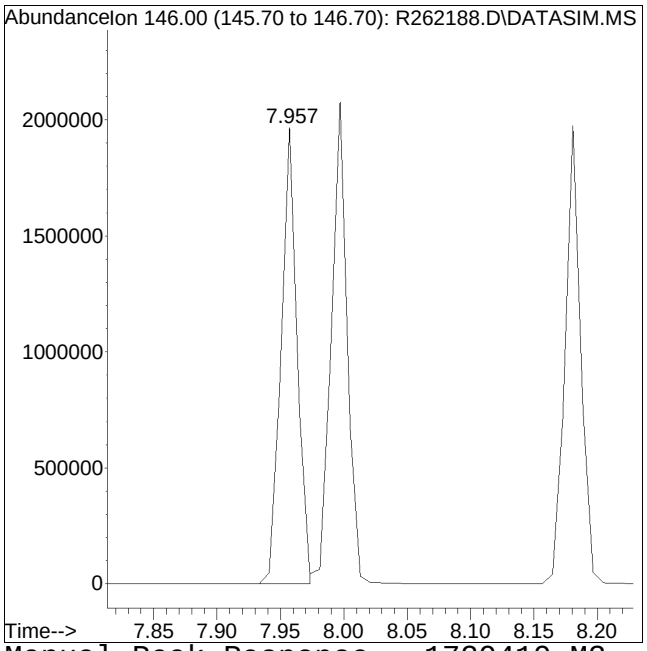
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #75: 1,3-dichlorobenzene



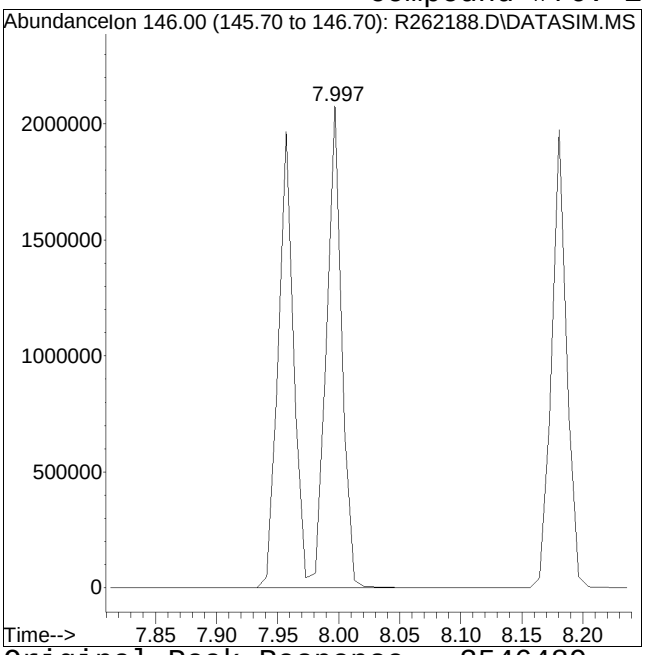


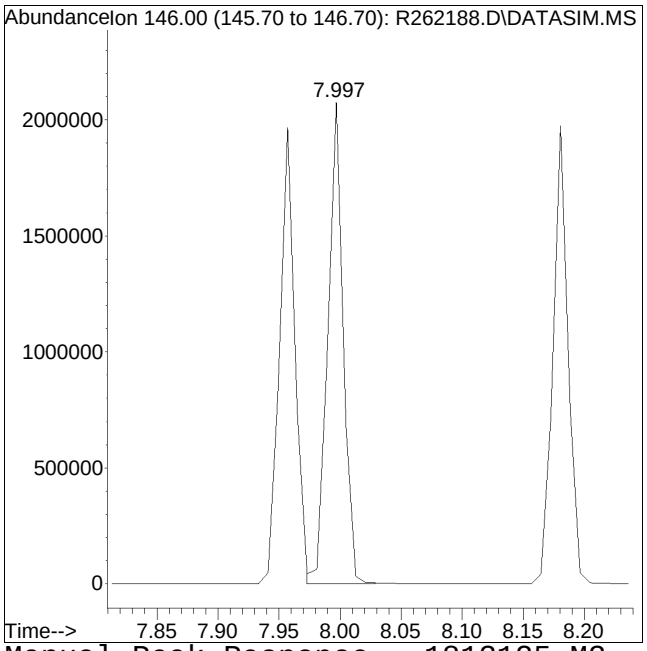
Original Peak Response = 3546427 Manual Peak Response = 1729419 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262188.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 12:58 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 3/18/2025 12:18 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 3546489 Manual Peak Response = 1813125 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 : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:35 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	304278	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 113.10%			
33) 1,4-difluorobenzene	4.368	114	1110578	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 117.86%			
51) chlorobenzene-D5	6.452	54	164807	10.000	ppbV	# 0.00
Standard Area = 144255			Recovery = 114.25%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	386864	11.033	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.33%			
53) toluene-D8	5.544	98	880161	10.103	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.03%			
67) bromofluorobenzene	7.210	95	577625	9.803	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.03%			
Target Compounds						Qvalue
2) propylene	1.999	41	395288	89.830	ppbV	96
3) dichlorodifluoromethane	2.021	85	2826415	50.093	ppbV	98
4) chloromethane	2.070	50	923164M6	46.582	ppbV	
5) Freon-114	2.103	85	3672380	47.702	ppbV	95
6) vinyl chloride	2.142	62	1182414	46.782	ppbV	99
7) 1,3-butadiene	2.186	54	725149	63.829	ppbV	89
8) bromomethane	2.273	94	1227854	47.285	ppbV	99
9) chloroethane	2.323	64	642197	46.279	ppbV	99
10) ethanol	2.356	31	3032377	242.288	ppbV	99
11) vinyl bromide	2.434	106	1343492	60.047	ppbV	100
12) acrolein	2.462	56	598193	46.688	ppbV	98
13) acetone	2.496	43	8224279	269.467	ppbV	93
14) trichlorofluoromethane	2.553	101	4485624	44.111	ppbV	98
15) isopropyl alcohol	2.564	45	5152598	144.245	ppbV	99
16) acrylonitrile	2.626	53	1241563	48.831	ppbV	95
17) 1,1-dichloroethene	2.729	61	2736555	44.132	ppbV	98
18) tertiary butyl alcohol	2.738	59	3575093	45.620	ppbV	99
19) methylene chloride	2.762	49	1800043M4	42.615	ppbV	
20) 3-chloropropene	2.795	41	1644851	60.175	ppbV	98
21) carbon disulfide	2.848	76	4419722	58.189	ppbV	99
22) Freon 113	2.848	101	3730440	43.521	ppbV	98
23) trans-1,2-dichloroethene	3.060	61	2379273	58.491	ppbV	99
24) 1,1-dichloroethane	3.130	63	3186687	43.428	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:35 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.161	73	4317184	58.949	ppbV		99
26) vinyl acetate	3.192	43	3554575M6	71.904	ppbV		
27) 2-butanone	3.281	43	2157762	66.227	ppbV		94
28) cis-1,2-dichloroethene	3.443	61	1503973	50.191	ppbV		98
29) Ethyl Acetate	3.555	61	363143M6	64.745	ppbV		
30) chloroform	3.570	83	2649619	49.800	ppbV		99
31) Tetrahydrofuran	3.719	42	820625M6	70.874	ppbV		
32) 1,2-dichloroethane	3.871	62	1566195	47.627	ppbV	#	93
34) hexane	3.547	57	1432351	67.364	ppbV		79
36) 1,1,1-trichloroethane	3.985	97	2758935	48.724	ppbV		98
37) benzene	4.179	78	3457228	46.977	ppbV		99
38) carbon tetrachloride	4.255	117	2891051	50.032	ppbV		97
39) cyclohexane	4.311	56	1421173	64.092	ppbV		94
40) Dibromomethane	4.547	93	1614308	48.626	ppbV	#	87
41) 1,2-dichloropropane	4.566	63	1254731	47.825	ppbV		99
42) bromodichloromethane	4.651	83	2692216	65.555	ppbV		100
43) 1,4-dioxane	4.679	88	817293	70.606	ppbV		95
44) trichloroethene	4.688	130	1936789	50.481	ppbV		99
45) 2,2,4-trimethylpentane	4.726	57	4415098	63.185	ppbV		98
46) heptane	4.858	43	1435653	63.963	ppbV		98
47) cis-1,3-dichloropropene	5.113	75	2032382	51.552	ppbV		98
48) 4-methyl-2-pentanone	5.145	43	2095591	63.642	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	1725274	54.099	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	1670582	48.255	ppbV		99
52) toluene	5.592	91	4436171	48.344	ppbV		98
54) 2-hexanone	5.743	43	2100424	67.455	ppbV	#	82
55) dibromochloromethane	5.783	129	3002156	71.288	ppbV		99
56) 1,2-dibromoethane	5.895	107	2705555	50.508	ppbV		99
57) tetrachloroethene	6.142	166	2595532	53.183	ppbV		96
58) 1,1,1,2-tetrachloroethane	6.468	131	2342952	56.660	ppbV	#	100
59) chlorobenzene	6.474	112	4031362	49.973	ppbV		97
60) ethylbenzene	6.676	91	5795578	47.024	ppbV		95
61) m+p-xylene	6.768	91	9648853	95.749	ppbV		94
62) bromoform	6.768	173	3246129	84.251	ppbV		98
63) styrene	6.937	104	3686296	51.572	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	3809734	49.673	ppbV		97
65) o-xylene	6.989	91	4750806	48.758	ppbV		96
66) 1,2,3-Trichloropropane	7.047	75	2620970	49.389	ppbV		98
68) isopropylbenzene	7.298	105	6290781	46.412	ppbV		94
69) Bromobenzene	7.309	77	3083795M6	51.457	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:35 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

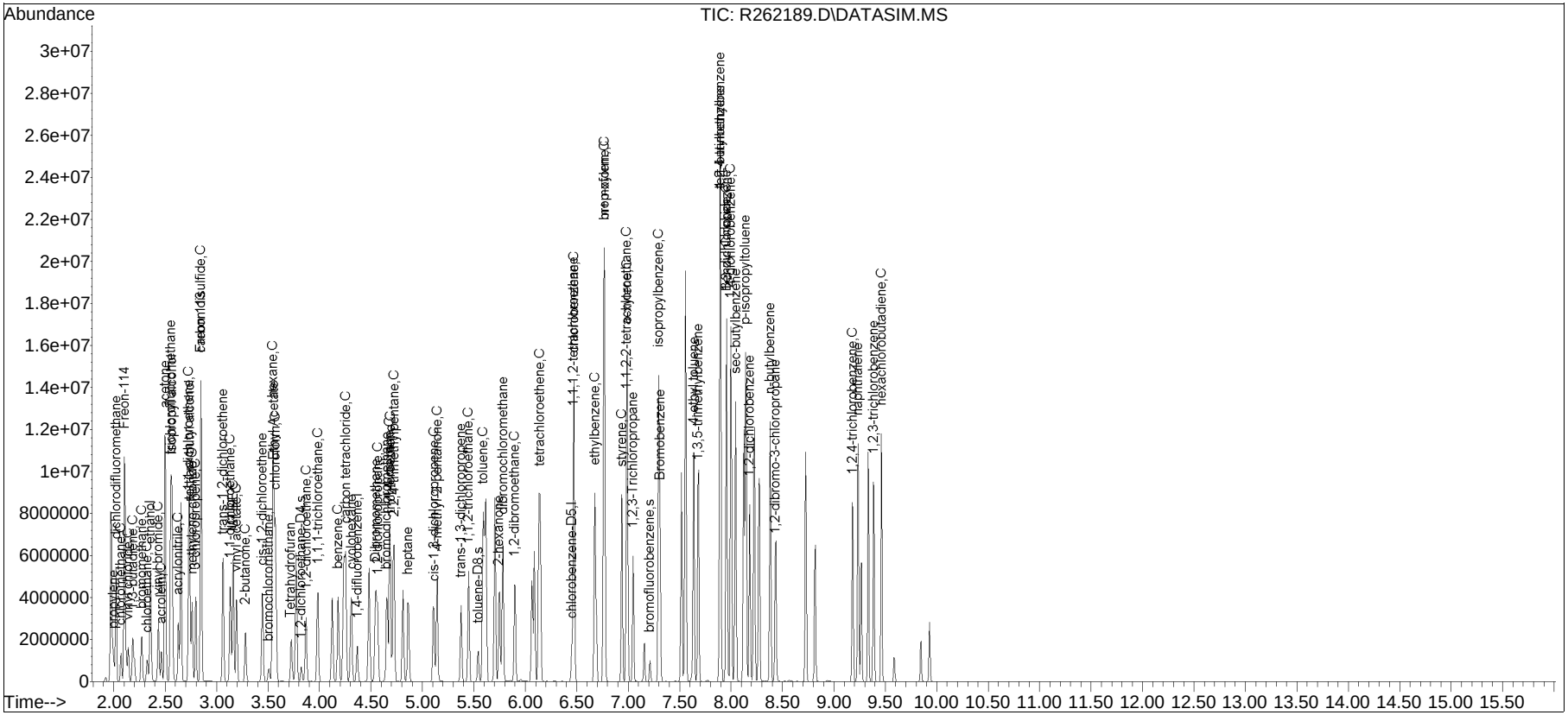
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	6032292M4	62.486	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	5300849	47.170	ppbV	#	44
72) tert-butylbenzene	7.893	119	6457788	51.434	ppbV		94
73) 1,2,4-trimethylbenzene	7.893	105	5966183	50.459	ppbV		94
74) Benzyl Chloride	7.957	91	4889908	97.641	ppbV		93
75) 1,3-dichlorobenzene	7.957	146	4864010M4	52.625	ppbV		
76) 1,4-dichlorobenzene	7.997	146	4983502M4	53.882	ppbV		
77) sec-butylbenzene	8.045	105	7762551	44.496	ppbV	#	91
78) p-isopropyltoluene	8.141	119	7626621	47.312	ppbV		93
79) 1,2-dichlorobenzene	8.180	146	4571651	50.118	ppbV		99
80) n-butylbenzene	8.380	91	6758222	46.866	ppbV		91
81) 1,2-dibromo-3-chloropr...	8.428	75	2202107	57.957	ppbV		98
82) 1,2,4-trichlorobenzene	9.180	180	4761920	59.533	ppbV		99
83) naphthalene	9.233	128	8412120	46.015	ppbV	#	93
84) 1,2,3-trichlorobenzene	9.385	180	4919778	49.861	ppbV		99
85) hexachlorobutadiene	9.461	225	4179603	61.089	ppbV		95

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262189.D
Acq On : 15 Mar 2025 01:31 am
Operator : AIRLAB26:APR
Sample : ITO15-LLSTD050
Misc : WG2042597
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Mar 18 12:18:35 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Mar 18 12:17:08 2025
Response via : Initial Calibration

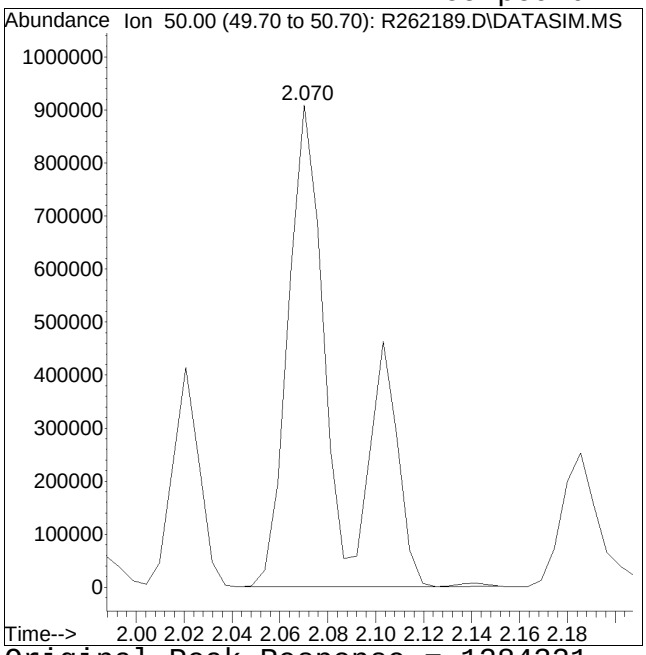


Manual Integration Report

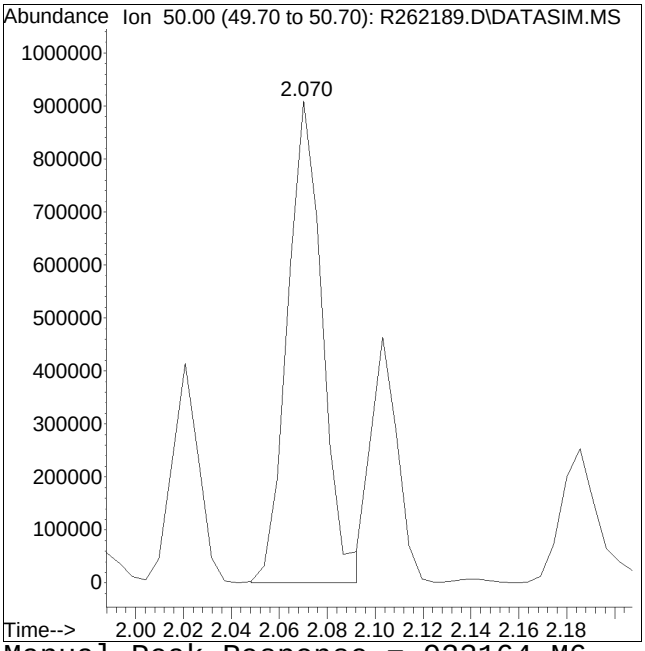
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262189.D
Date Inj'd : 3/15/2025 1:31 am
Sample : ITO15-LLSTD050

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #4: chloromethane



Original Peak Response = 1284321



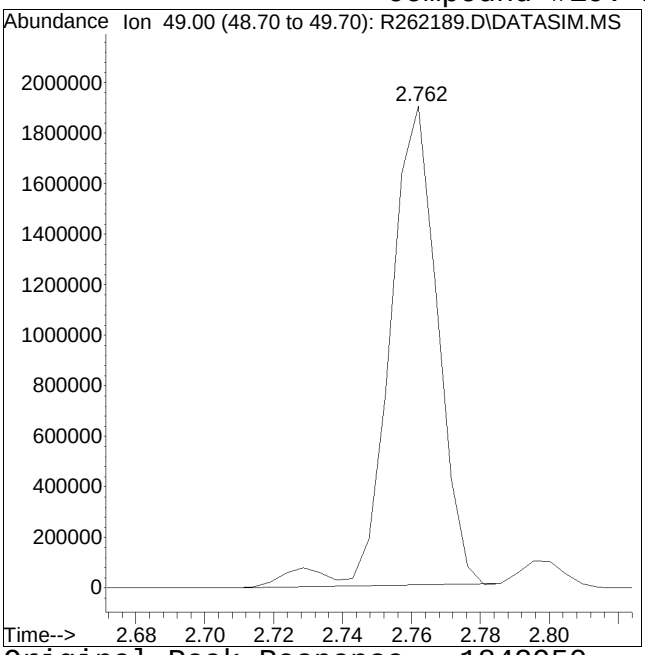
Manual Peak Response = 923164 M6

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

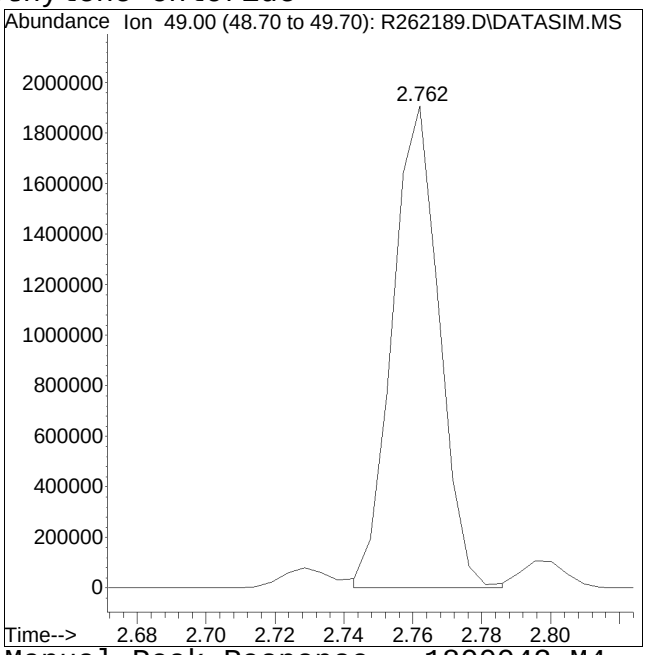
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #19: methylene chloride



Original Peak Response = 1842950



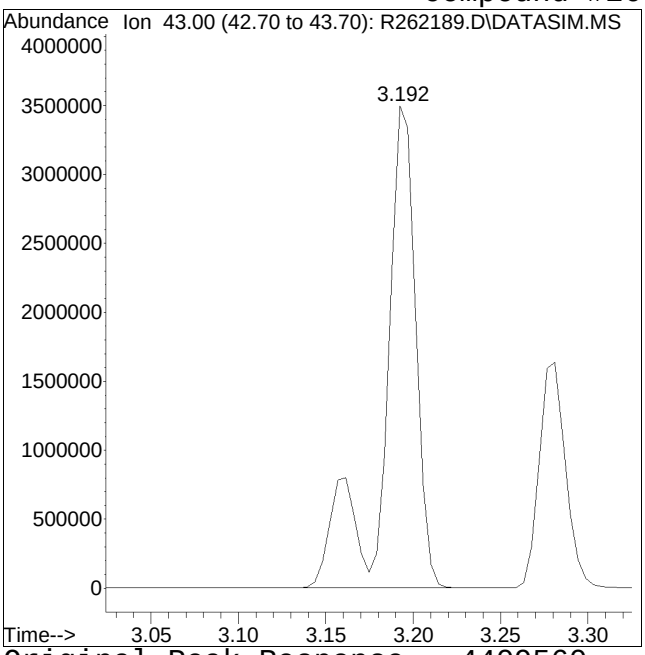
Manual Peak Response = 1800043 M4

M4 = Poor automated baseline construction.

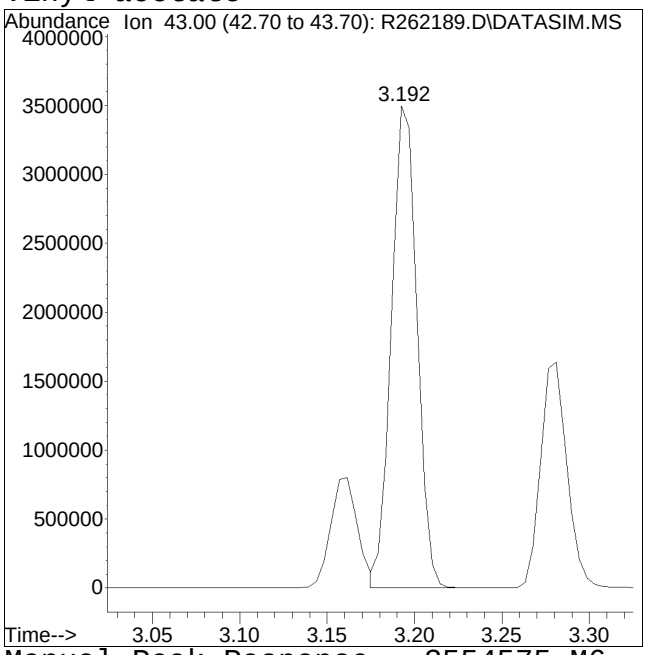
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #26: vinyl acetate



Original Peak Response = 4409560



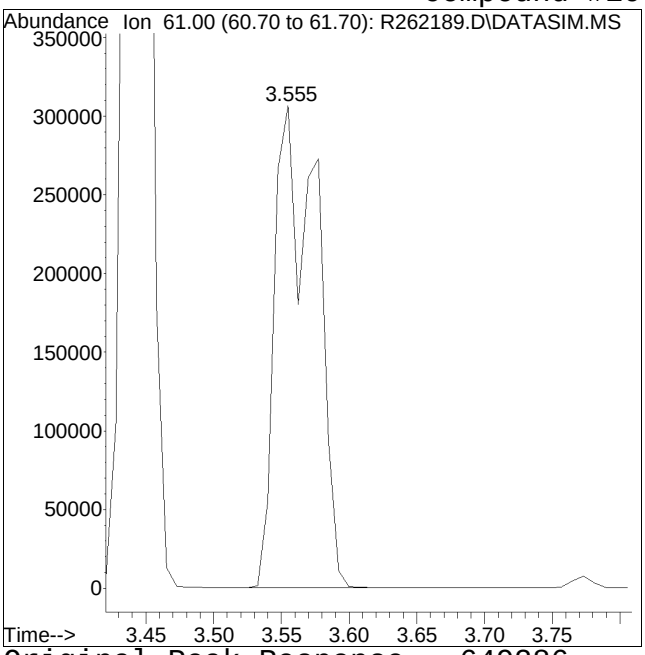
Manual Peak Response = 3554575 M6

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

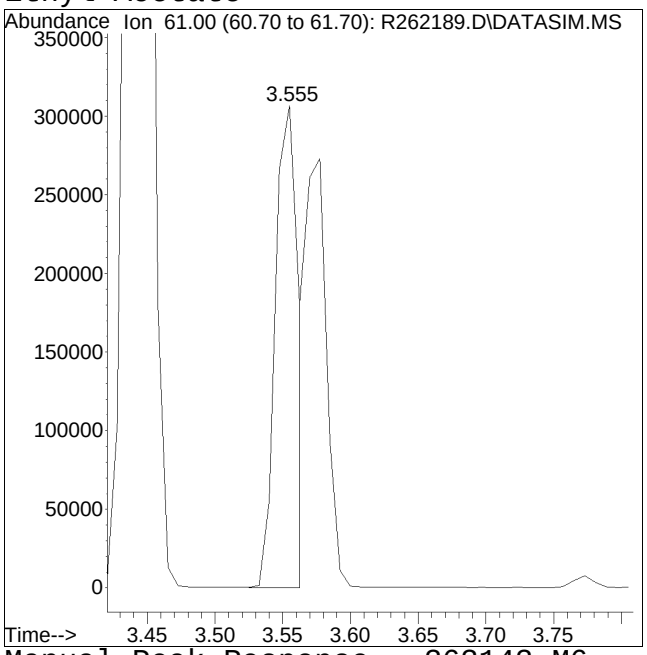
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #29: Ethyl Acetate



Original Peak Response = 649286



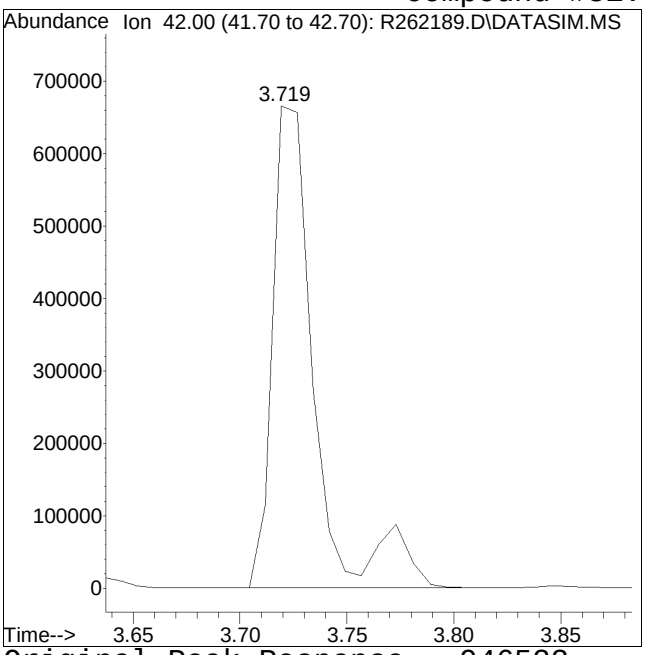
Manual Peak Response = 363143 M6

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

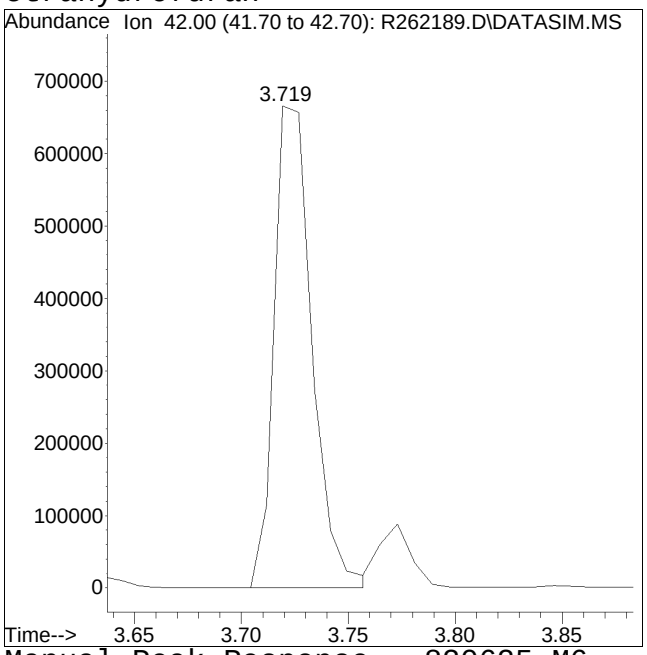
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 946522



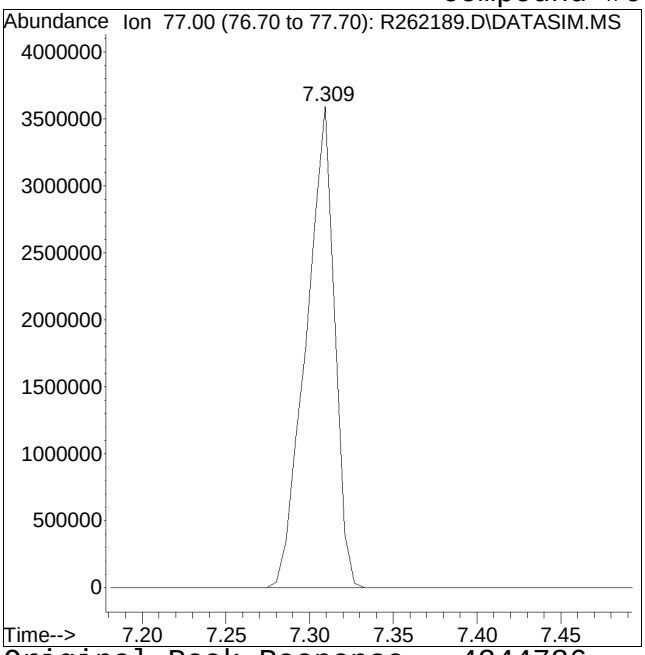
Manual Peak Response = 820625 M6

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

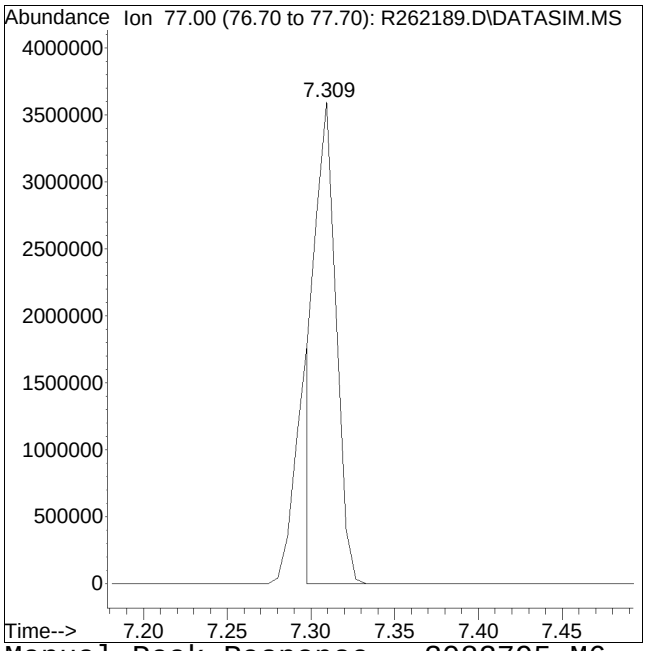
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #69: Bromobenzene



Original Peak Response = 4244736



Manual Peak Response = 3083795 M6

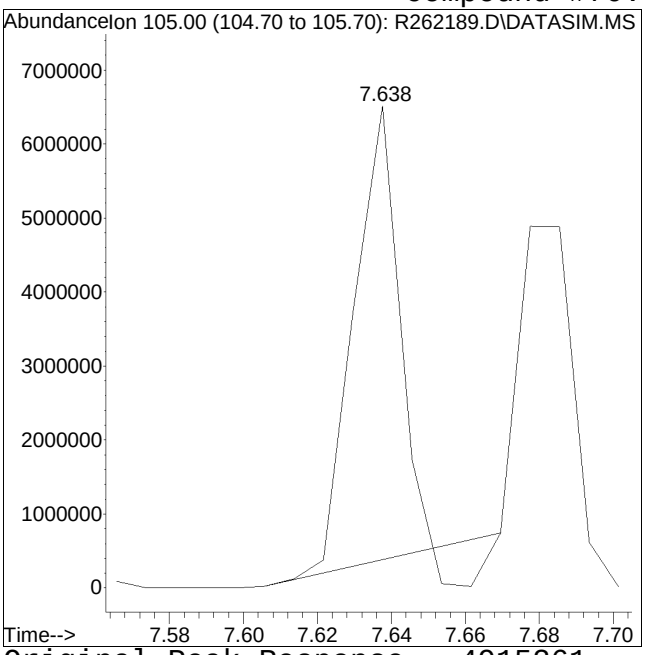
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

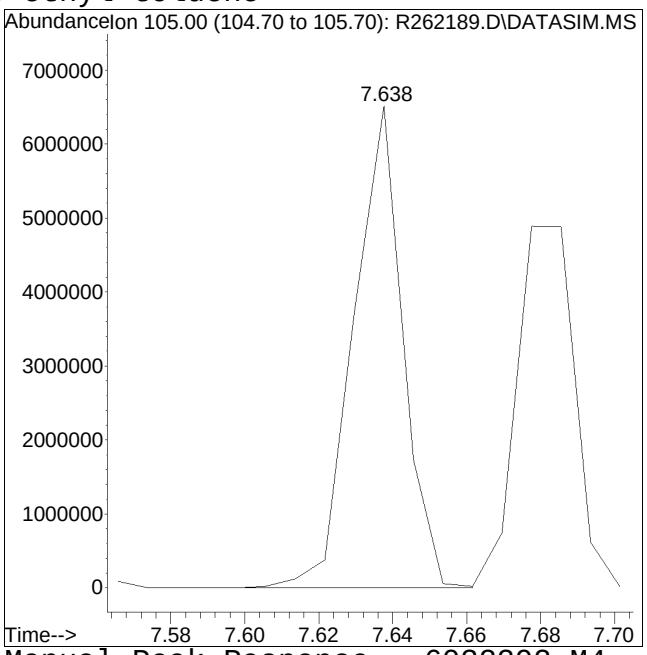
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262189.D
Date Inj'd : 3/15/2025 1:31 am
Sample : ITO15-LLSTD050

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 4915261



Manual Peak Response = 6032292 M4

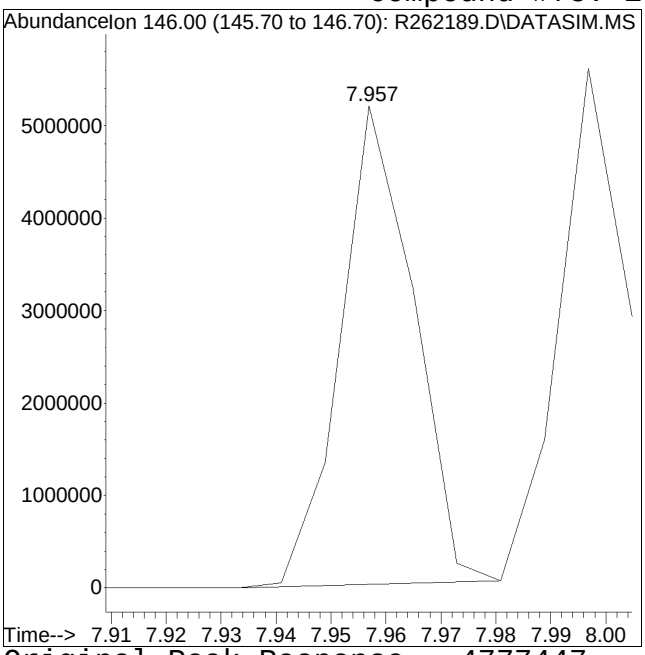
M4 = Poor automated baseline construction.

Manual Integration Report

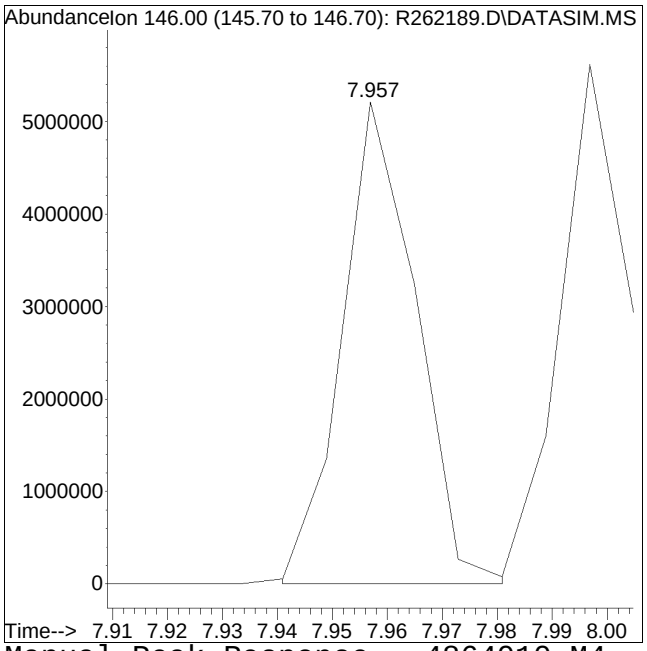
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262189.D
Date Inj'd : 3/15/2025 1:31 am
Sample : ITO15-LLSTD050

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/18/2025 12:18 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 4777447



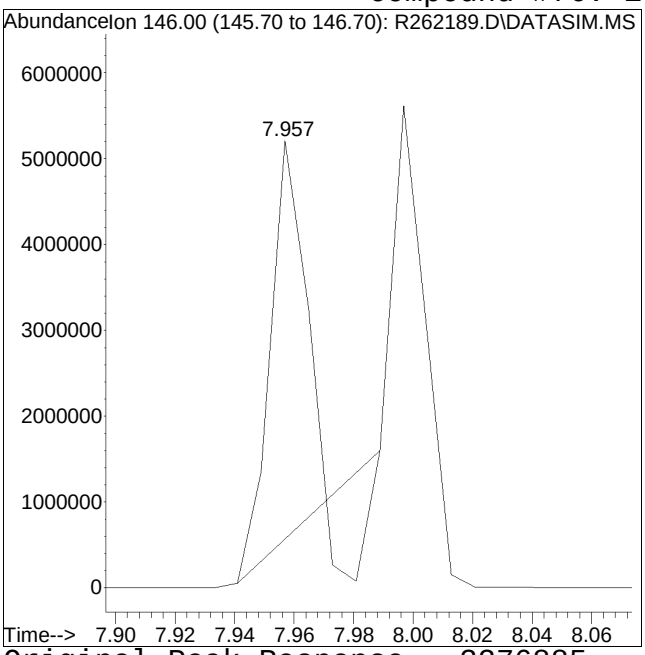
Manual Peak Response = 4864010 M4

M4 = Poor automated baseline construction.

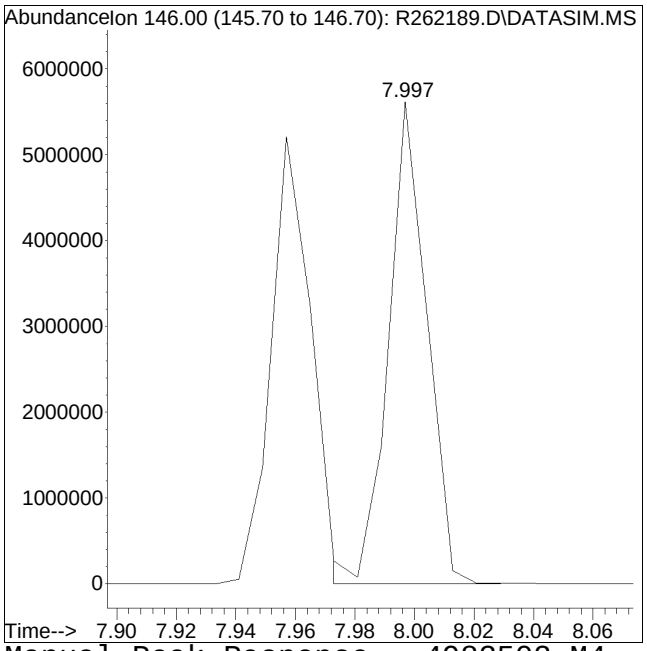
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262189.D Operator : AIRLAB26:APR
Date Inj'd : 3/15/2025 1:31 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 3/18/2025 12:18 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 3276885



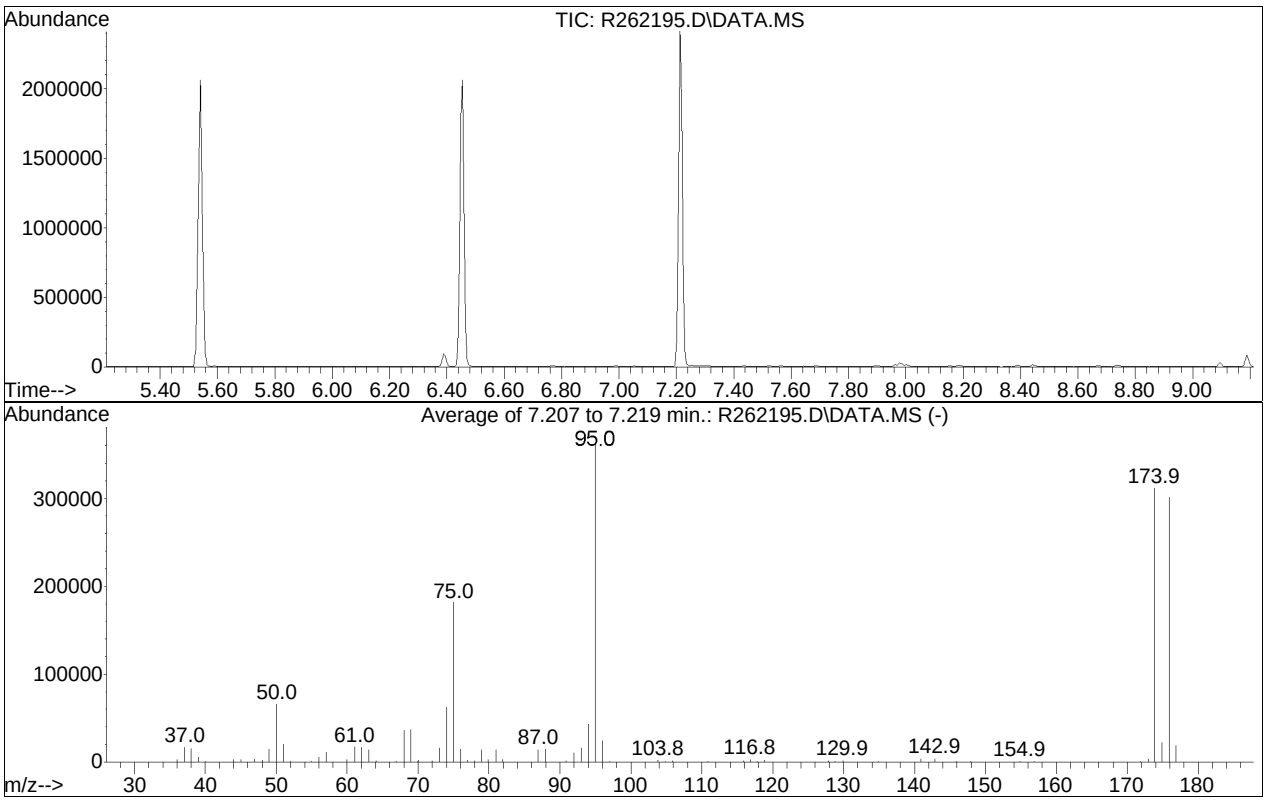
Manual Peak Response = 4983502 M4

M4 = Poor automated baseline construction.

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262195.D
Acq On : 17 Mar 2025 09:58 am
Operator : AIRLAB26:APR
Sample : WG2042597-2
Misc : WG2042597
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025



AutoFind: Scans 806, 807, 808; Background Corrected with Scan 800

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.2	66120	PASS
75	95	30	66	50.0	181648	PASS
95	95	100	100	100.0	363413	PASS
96	95	5	9	6.8	24646	PASS
173	174	0.00	2	1.0	3266	PASS
174	95	50	120	85.8	311979	PASS
175	174	4	9	7.2	22549	PASS
176	174	93	101	96.6	301525	PASS
177	176	5	9	6.3	18879	PASS

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	102	0.00
2		propylene	0.182	0.254	-39.6#	180#	0.00
3		dichlorodifluoromethane	1.849	2.112	-14.2	117	0.00
4	C	chloromethane	0.630	0.651	-3.3	102	0.00
5		Freon-114	2.494	2.818	-13.0	114	0.00
6	C	vinyl chloride	0.838	0.874	-4.3	108	0.00
7	C	1,3-butadiene	0.488	0.555	-13.7	152#	0.00
8	C	bromomethane	0.867	0.954	-10.0	115	0.00
9	C	chloroethane	0.450	0.491	-9.1	110	0.00
10		ethanol	0.420	0.386	8.1	96	0.00
11	C	vinyl bromide	0.887	1.054	-18.8	147#	0.00
12	C	acrolein	0.451	0.371	17.7	90	0.00
13		acetone	1.216	1.356	-11.5	138	0.00
14		trichlorofluoromethane	3.313	3.513	-6.0	108	0.00
15		isopropyl alcohol	1.397	1.296	7.2	113	0.00
16	C	acrylonitrile	0.865	0.812	6.1	100	0.00
17	C	1,1-dichloroethene	2.003	2.165	-8.1	109	0.00
18		tertiary butyl alcohol	2.465	2.425	1.6	96	0.00
19	C	methylene chloride	1.359	1.421	-4.6	105	0.00
20	C	3-chloropropene	1.071	1.304	-21.8	149#	0.00
21	C	carbon disulfide	2.943	3.409	-15.8	140	0.00
22		Freon 113	2.790	2.881	-3.3	105	0.00
23		trans-1,2-dichloroethene	1.659	1.872	-12.8	143#	0.00
24	C	1,1-dichloroethane	2.372	2.447	-3.2	104	0.00
25	C	MTBE	3.033	3.492	-15.1	149#	0.00
26	C	vinyl acetate	2.061	1.490	27.7	94	0.00
27	C	2-butanone	1.272	1.587	-24.8	152#	0.00
28		cis-1,2-dichloroethene	1.001	1.067	-6.6	111	0.00
29		Ethyl Acetate	0.219	0.254	-16.0	141#	0.00
30	C	chloroform	1.804	1.863	-3.3	109	0.00
31		Tetrahydrofuran	0.471	0.638	-35.5#	172#	0.00
32	C	1,2-dichloroethane	1.115	1.127	-1.1	107	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00
34	C	hexane	0.237	0.288	-21.5	158#	0.00
35	s	1,2-dichloroethane-D4	0.321	0.312	2.8	104	0.00
36	C	1,1,1-trichloroethane	0.510	0.531	-4.1	109	0.00
37	C	benzene	0.659	0.681	-3.3	108	0.00
38	C	carbon tetrachloride	0.519	0.543	-4.6	110	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	0.236	0.289	-22.5	152#	0.00
40		Dibromomethane	0.307	0.285	7.2	100	0.00
41	C	1,2-dichloropropane	0.237	0.244	-3.0	108	0.00
42		bromodichloromethane	0.464	0.543	-17.0	154#	0.00
43	C	1,4-dioxane	0.128	0.156	-21.9	157#	0.00
44	C	trichloroethene	0.343	0.357	-4.1	108	0.00
45	C	2,2,4-trimethylpentane	0.751	0.945	-25.8	157#	0.00
46		heptane	0.237	0.304	-28.3	158#	0.00
47	C	cis-1,3-dichloropropene	0.347	0.401	-15.6	118	0.00
48	C	4-methyl-2-pentanone	0.341	0.434	-27.3	153#	0.00
49		trans-1,3-dichloropropene	0.278	0.352	-26.6	129	0.00
50	C	1,1,2-trichloroethane	0.308	0.322	-4.5	108	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	101	0.00
52	C	toluene	5.473	6.043	-10.4	109	0.00
53	s	toluene-D8	5.342	5.610	-5.0	107	0.00
54		2-hexanone	2.190	2.695	-23.1	144#	0.00
55		dibromochloromethane	3.145	3.890	-23.7	153#	0.00
56	C	1,2-dibromoethane	3.215	3.567	-10.9	111	0.00
57	C	tetrachloroethene	2.941	3.100	-5.4	105	0.00
58		1,1,1,2-tetrachloroethane	2.545	2.507	1.5	101	0.00
59	C	chlorobenzene	4.923	5.125	-4.1	105	0.00
60	C	ethylbenzene	7.036	7.705	-9.5	104	0.00
61	C	m+p-xylene	5.726	6.431	-12.3	106	0.00
62	C	bromoform	2.816	3.639	-29.2	157#	0.00
63	C	styrene	3.893	4.691	-20.5	109	0.00
64	C	1,1,2,2-tetrachloroethane	4.546	4.900	-7.8	106	0.00
65	C	o-xylene	5.453	6.287	-15.3	107	0.00
66		1,2,3-Trichloropropane	3.218	3.269	-1.6	102	0.00
67	s	bromofluorobenzene	3.483	3.483	0.0	98	0.00
68	C	isopropylbenzene	7.797	8.319	-6.7	102	0.00
69		Bromobenzene	4.080	5.185	-27.1	144#	0.00
70		4-ethyl toluene	6.426	8.616	-34.1#	148#	0.00
71		1,3,5-trimethylbenzene	5.929	7.328	-23.6	108	0.00
72		tert-butylbenzene	7.066	7.499	-6.1	99	0.00
73		1,2,4-trimethylbenzene	6.218	7.640	-22.9	107	0.00
74	C	Benzyl Chloride	3.588	4.323	-20.5	143#	0.00
75		1,3-dichlorobenzene	5.091	5.836	-14.6	105	0.00
76	C	1,4-dichlorobenzene	5.296	5.978	-12.9	107	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	9.644	10.246	-6.2	97	0.00
78		p-isopropyltoluene	8.837	9.595	-8.6	99	0.00
79		1,2-dichlorobenzene	5.036	5.664	-12.5	103	0.00
80		n-butylbenzene	7.845	8.781	-11.9	101	0.00
81		1,2-dibromo-3-chloropropane	2.181	2.256	-3.4	99	0.00
82	C	1,2,4-trichlorobenzene	4.362	5.104	-17.0	106	0.00
83		naphthalene	9.588	10.886	-13.5	99	0.00
84		1,2,3-trichlorobenzene	4.539	5.879	-29.5	99	0.00
85	C	hexachlorobutadiene	3.638	4.125	-13.4	100	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 : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	275581	10.000	ppbV	0.00
Standard Area = 269025			Recovery = 102.44%			
33) 1,4-difluorobenzene	4.368	114	987996	10.000	ppbV	0.00
Standard Area = 942251			Recovery = 104.85%			
51) chlorobenzene-D5	6.452	54	145263	10.000	ppbV	0.00
Standard Area = 144255			Recovery = 100.70%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	308473	9.734	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.34%			
53) toluene-D8	5.544	98	814914	10.501	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.01%			
67) bromofluorobenzene	7.210	95	505885	9.998	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.98%			
Target Compounds						Qvalue
2) propylene	2.004	41	35053	6.987	ppbV	96
3) dichlorodifluoromethane	2.026	85	291022	5.711	ppbV	100
4) chloromethane	2.076	50	89662M4	5.167	ppbV	
5) Freon-114	2.109	85	388292	5.650	ppbV	100
6) vinyl chloride	2.147	62	120472	5.218	ppbV	100
7) 1,3-butadiene	2.186	54	76516	5.689	ppbV	87
8) bromomethane	2.273	94	131494	5.505	ppbV	99
9) chloroethane	2.328	64	67591	5.452	ppbV	97
10) ethanol	2.356	31	265697	22.929	ppbV	100
11) vinyl bromide	2.434	106	145300	5.941	ppbV	100
12) acrolein	2.468	56	51173	4.118	ppbV	97
13) acetone	2.502	43	934030	27.875	ppbV	99
14) trichlorofluoromethane	2.553	101	484120	5.303	ppbV	100
15) isopropyl alcohol	2.564	45	446357	11.593	ppbV	100
16) acrylonitrile	2.626	53	111877	4.693	ppbV	95
17) 1,1-dichloroethene	2.729	61	298262	5.403	ppbV	99
18) tertiary butyl alcohol	2.738	59	334138	4.918	ppbV	99
19) methylene chloride	2.757	49	195809	5.229	ppbV	100
20) 3-chloropropene	2.796	41	179610	6.088	ppbV	98
21) carbon disulfide	2.848	76	469753	5.791	ppbV	100
22) Freon 113	2.848	101	396967	5.163	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	257904	5.642	ppbV	100
24) 1,1-dichloroethane	3.131	63	337212	5.158	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	481221	5.757	ppbV		99
26) vinyl acetate	3.193	43	205272M4	3.615	ppbV		
27) 2-butanone	3.281	43	218623	6.234	ppbV		97
28) cis-1,2-dichloroethene	3.443	61	147089	5.332	ppbV		99
29) Ethyl Acetate	3.555	61	35048M6	5.801	ppbV		
30) chloroform	3.563	83	256652	5.161	ppbV		100
31) Tetrahydrofuran	3.727	42	87918M6	6.772	ppbV		
32) 1,2-dichloroethane	3.863	62	155327	5.055	ppbV	#	98
34) hexane	3.540	57	142215	6.065	ppbV		79
36) 1,1,1-trichloroethane	3.985	97	262332	5.205	ppbV		99
37) benzene	4.180	78	336637	5.170	ppbV		99
38) carbon tetrachloride	4.255	117	268427	5.239	ppbV	#	97
39) cyclohexane	4.302	56	142815M4	6.120	ppbV		
40) Dibromomethane	4.538	93	140665	4.634	ppbV	#	96
41) 1,2-dichloropropane	4.566	63	120537	5.147	ppbV		99
42) bromodichloromethane	4.651	83	268184	5.847	ppbV		100
43) 1,4-dioxane	4.689	88	76985	6.074	ppbV		100
44) trichloroethene	4.679	130	176555	5.216	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	466861	6.296	ppbV		98
46) heptane	4.858	43	150115	6.409	ppbV		99
47) cis-1,3-dichloropropene	5.105	75	198146	5.772	ppbV		97
48) 4-methyl-2-pentanone	5.145	43	214154	6.362	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	174068	6.328	ppbV		99
50) 1,1,2-trichloroethane	5.448	97	159304	5.236	ppbV		100
52) toluene	5.592	91	438945	5.521	ppbV		100
54) 2-hexanone	5.751	43	195724	6.152	ppbV		97
55) dibromochloromethane	5.783	129	282507	6.184	ppbV		100
56) 1,2-dibromoethane	5.895	107	259096	5.548	ppbV		100
57) tetrachloroethene	6.142	166	225151	5.270	ppbV		99
58) 1,1,1,2-tetrachloroethane	6.468	131	182092	4.926	ppbV	#	100
59) chlorobenzene	6.474	112	372265	5.206	ppbV		100
60) ethylbenzene	6.676	91	559644	5.476	ppbV		100
61) m+p-xylene	6.763	91	934235	11.231	ppbV		100
62) bromoform	6.763	173	264283	6.461	ppbV		100
63) styrene	6.937	104	340746	6.026	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	355876	5.389	ppbV		100
65) o-xylene	6.989	91	456638	5.765	ppbV		100
66) 1,2,3-Trichloropropane	7.047	75	237421	5.079	ppbV		100
68) isopropylbenzene	7.298	105	604219	5.335	ppbV		97
69) Bromobenzene	7.309	77	376624	6.354	ppbV	#	77

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\R262186.D
Sub List : Default - All compounds listed

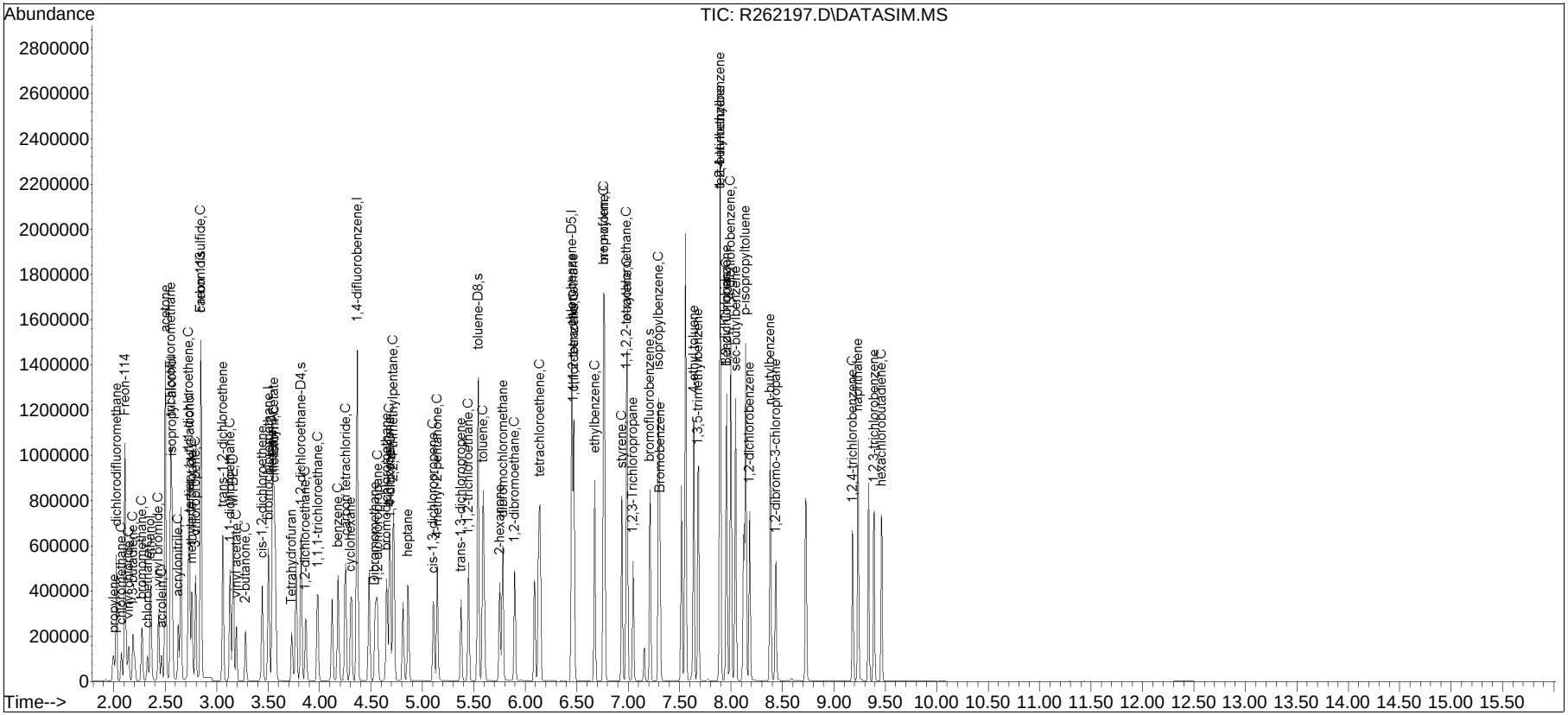
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	625813M6	6.704	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	532227	6.180	ppbV	#	50
72) tert-butylbenzene	7.893	119	544688	5.307	ppbV		98
73) 1,2,4-trimethylbenzene	7.893	105	554934	6.144	ppbV		96
74) Benzyl Chloride	7.957	91	313973	6.024	ppbV		100
75) 1,3-dichlorobenzene	7.957	146	423909M4	5.732	ppbV		
76) 1,4-dichlorobenzene	7.997	146	434156M4	5.643	ppbV		
77) sec-butylbenzene	8.045	105	744168	5.312	ppbV		98
78) p-isopropyltoluene	8.141	119	696891	5.429	ppbV		100
79) 1,2-dichlorobenzene	8.181	146	411388	5.624	ppbV		98
80) n-butylbenzene	8.380	91	637751	5.596	ppbV		98
81) 1,2-dibromo-3-chloropr...	8.436	75	163829	5.170	ppbV	#	90
82) 1,2,4-trichlorobenzene	9.180	180	370720	5.851	ppbV		100
83) naphthalene	9.233	128	790644	5.677	ppbV		98
84) 1,2,3-trichlorobenzene	9.391	180	426996	6.476	ppbV		100
85) hexachlorobutadiene	9.461	225	299636	5.670	ppbV		100

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

Sub List : Default - All compounds listed3\0314SIM_I\R262186.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\
Data File : R262197.D
Acq On : 17 Mar 2025 11:12 am
Operator : AIRLAB26:APR
Sample : CTO15-SIMSTD5.0
Misc : WG2042597
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 19 15:06:04 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0314SIM_I\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

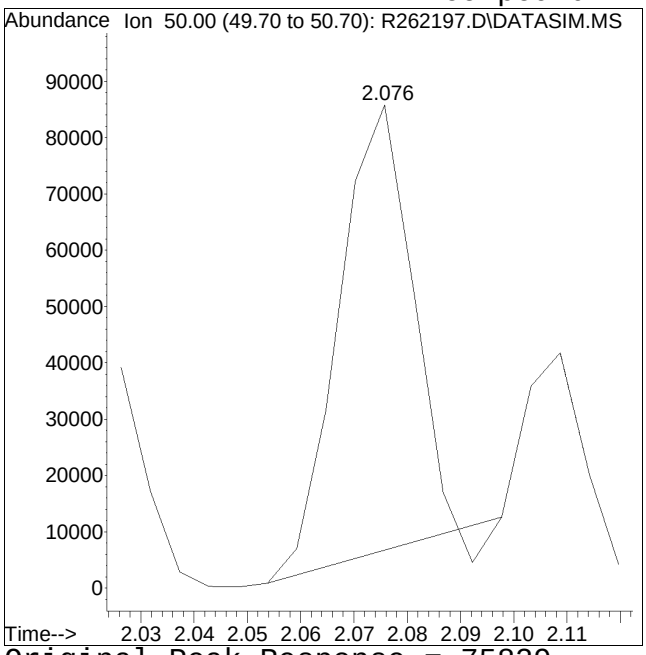


Manual Integration Report

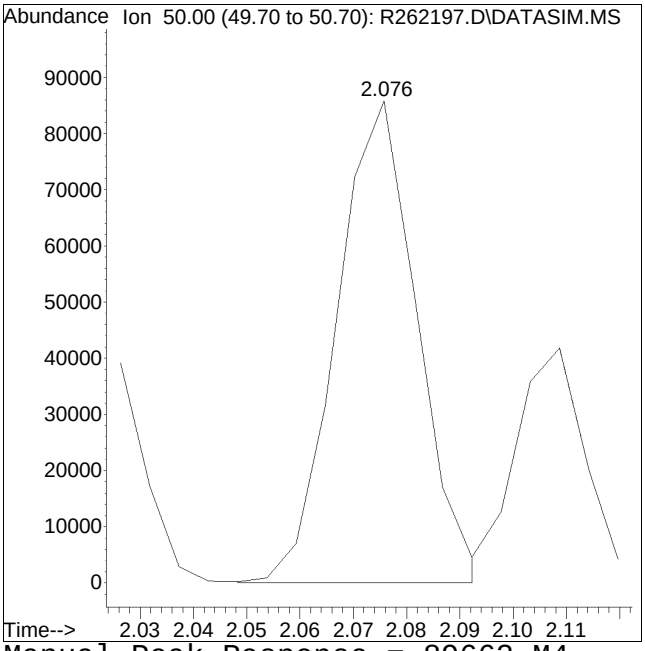
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262197.D
Date Inj'd : 3/17/2025 11:12 am
Sample : CTO15-SIMSTD5.0

Method : TSIM26_250314.M
Operator : AIRLAB26:APR
Instrument : Airlab26
Quant Date : 3/19/2025 3:06 pm

Compound #4: chloromethane



Original Peak Response = 75829



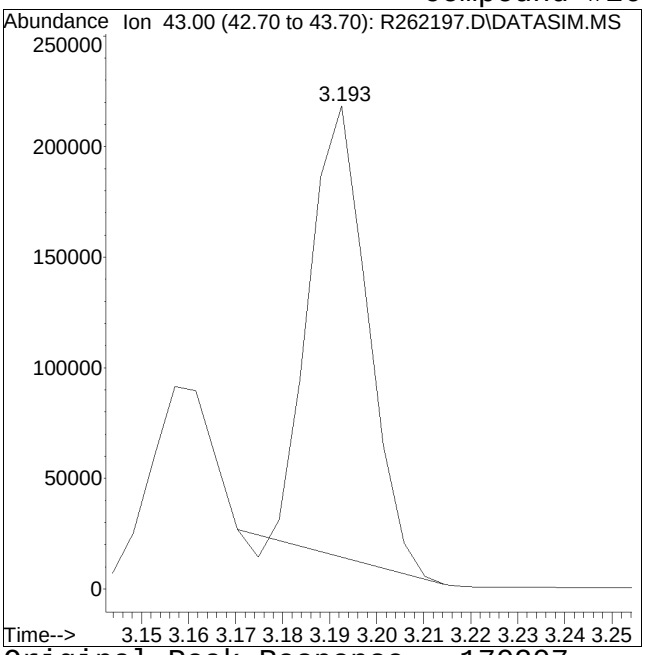
Manual Peak Response = 89662 M4

M4 = Poor automated baseline construction.

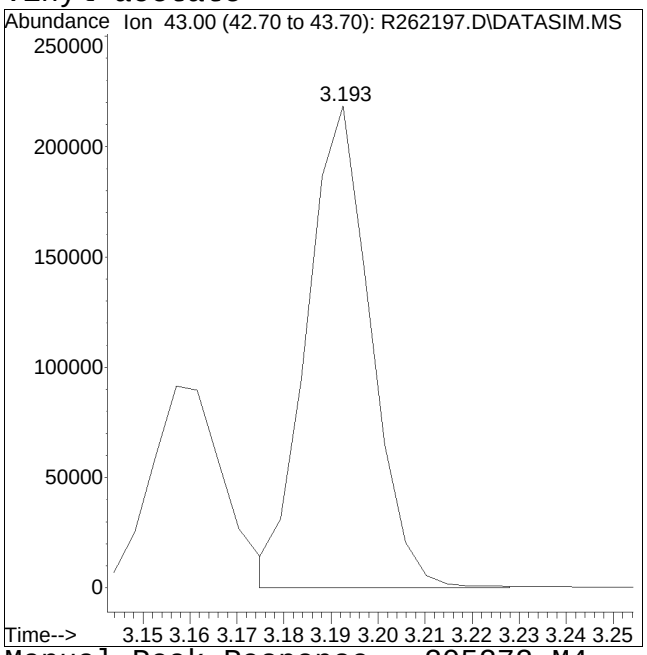
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #26: vinyl acetate



Original Peak Response = 170207



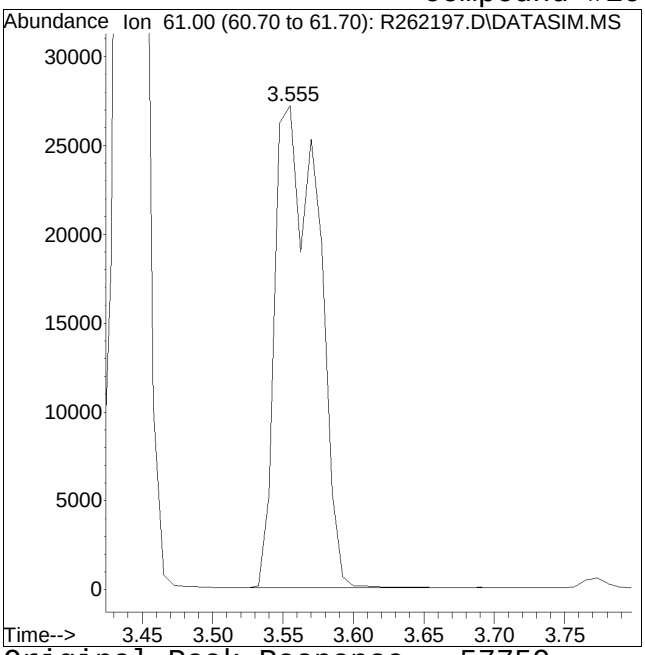
Manual Peak Response = 205272 M4

M4 = Poor automated baseline construction.

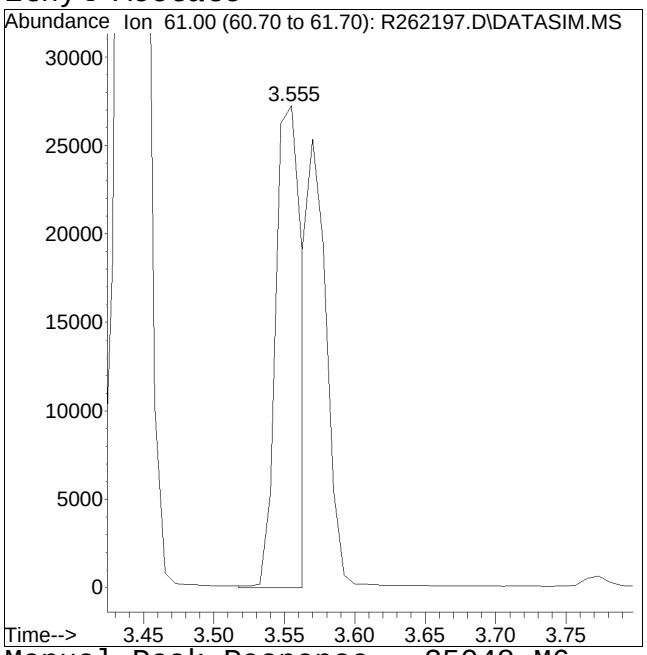
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #29: Ethyl Acetate



Original Peak Response = 57759



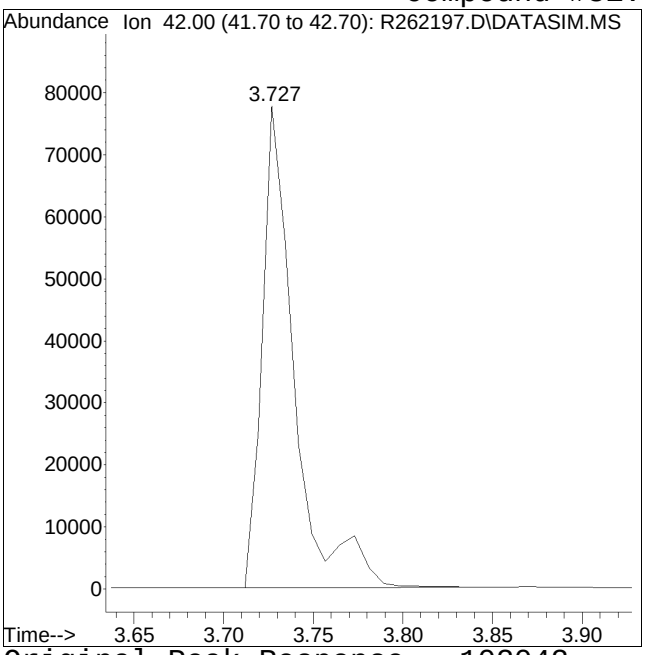
Manual Peak Response = 35048 M6

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

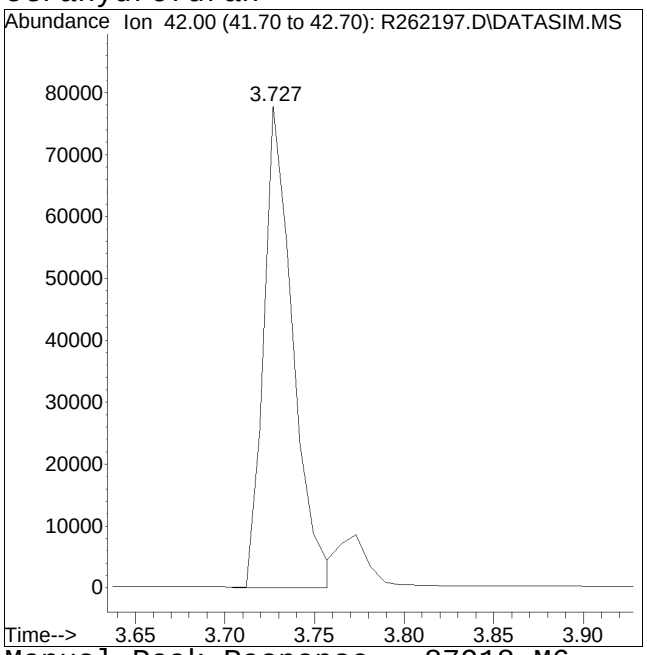
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 102042



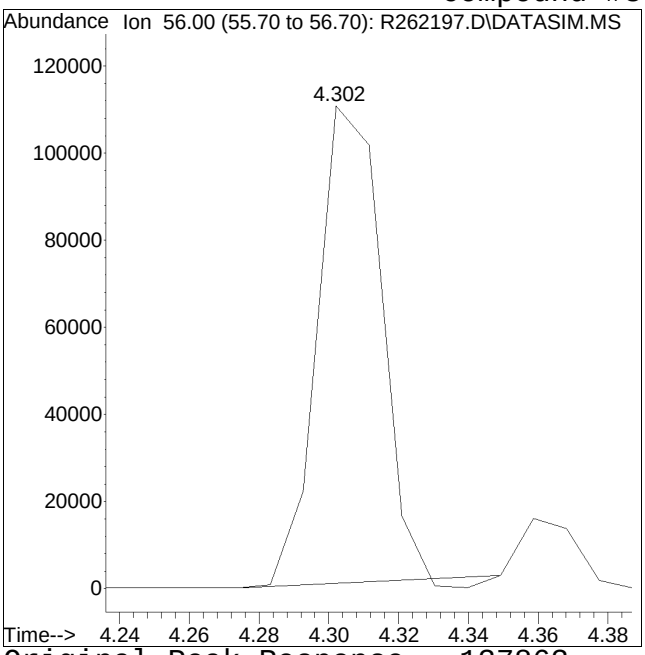
Manual Peak Response = 87918 M6

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

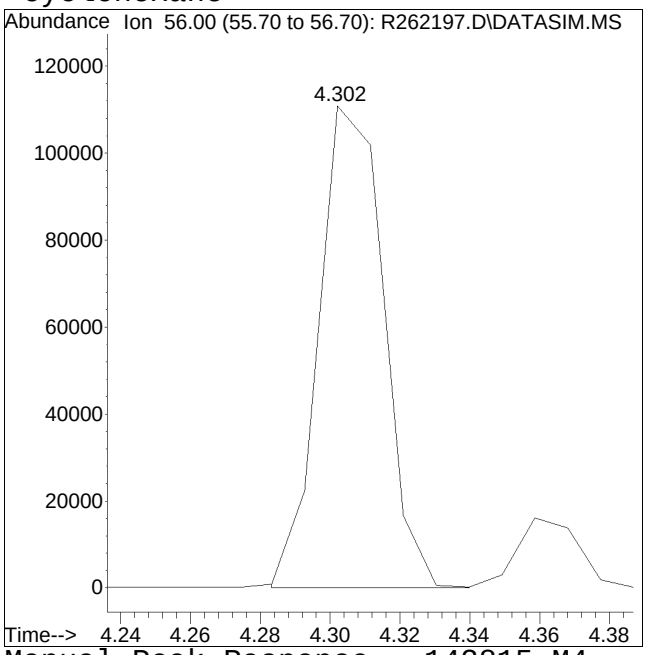
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #39: cyclohexane



Original Peak Response = 137863



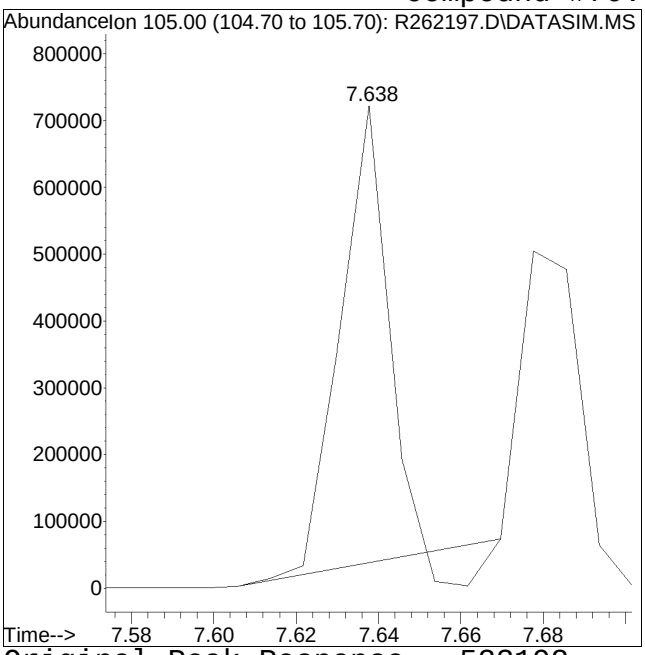
Manual Peak Response = 142815 M4

M4 = Poor automated baseline construction.

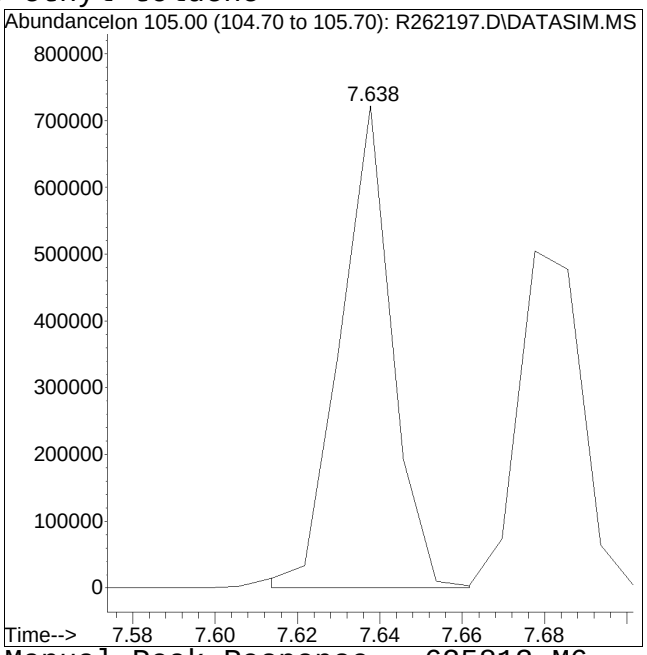
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 523192



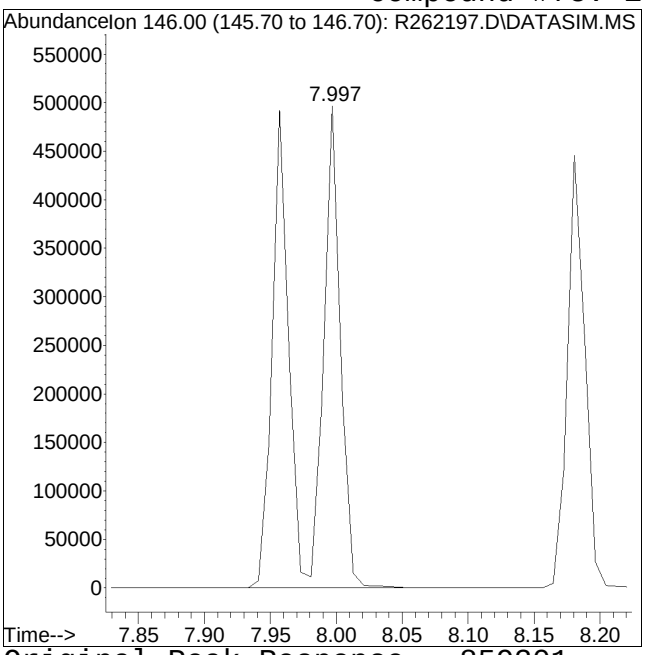
Manual Peak Response = 625813 M6

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

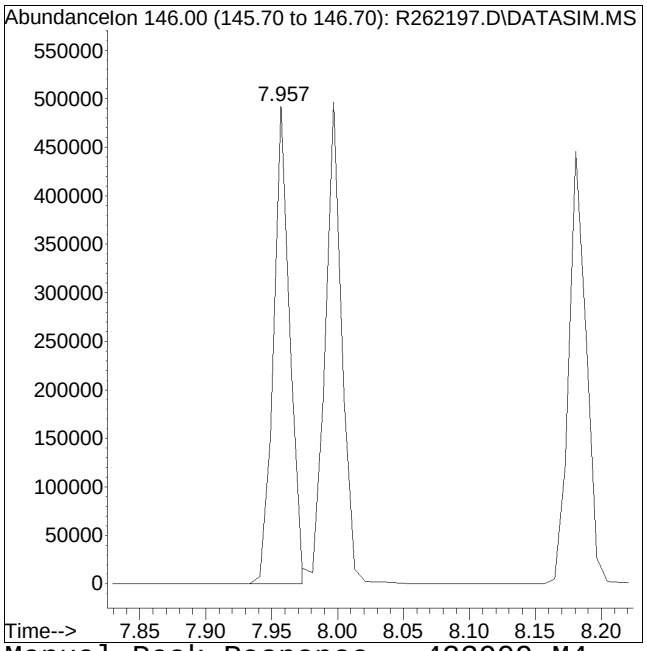
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 859301



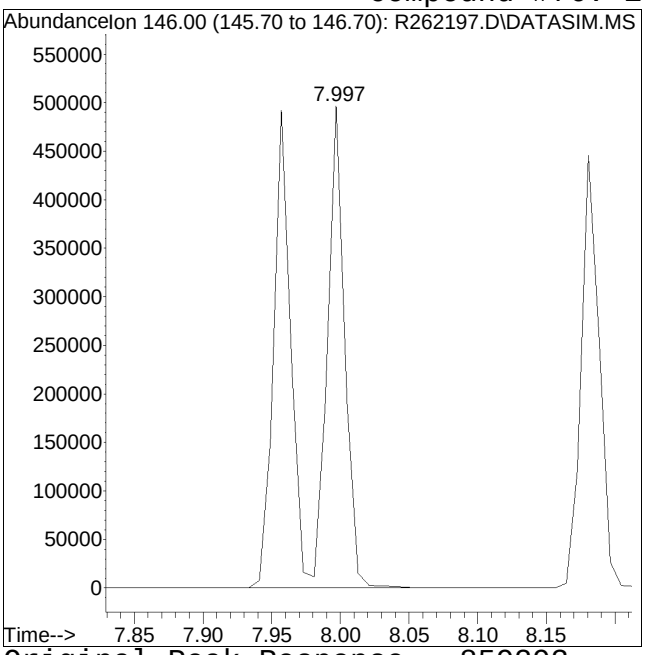
Manual Peak Response = 423909 M4

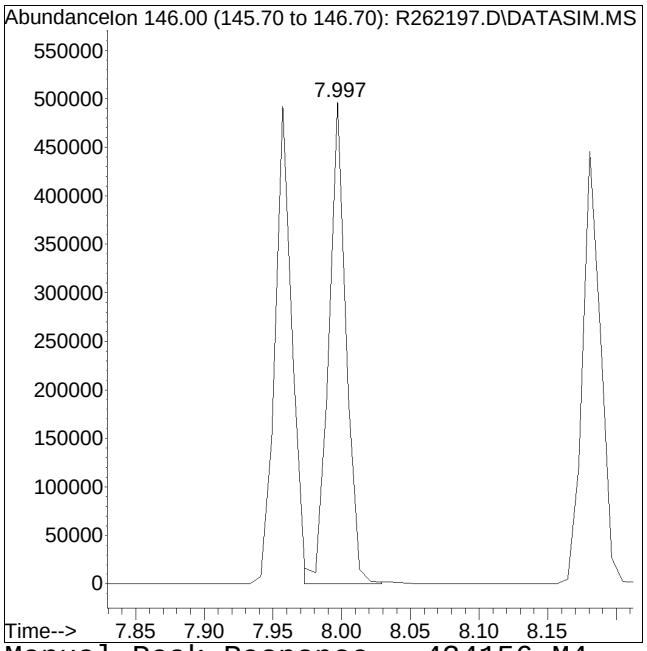
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262197.D Operator : AIRLAB26:APR
Date Inj'd : 3/17/2025 11:12 am Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 3/19/2025 3:06 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 859293 Manual Peak Response = 434156 M4
M4 = Poor automated baseline construction.

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Haley & Aldrich		Lab Number	: L2514968	
Project Name	: 340 MYRTLE AVE		Project Number	: 0210873-000-001-13	
Instrument ID	: AIRLAB26		Calibration Date	: 03/27/25 12:57	
Lab File ID	: R262486		Init. Calib. Date(s)	: 03/14/25	03/15/25
Sample No	: WG2046190-2		Init. Calib. Times	: 20:29	01:31
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	77	0
propylene	0.182	0.261	-	-43.4*	30	138	0
dichlorodifluoromethane	1.849	2.287	-	-23.7	30	95	0
chloromethane	0.63	0.68	-	-7.9	30	80	0
Freon-114	2.494	2.879	-	-15.4	30	87	0
vinyl chloride	0.838	0.907	-	-8.2	30	84	0
1,3-butadiene	0.488	0.564	-	-15.6	30	116	0
bromomethane	0.867	0.978	-	-12.8	30	88	0
chloroethane	0.45	0.506	-	-12.4	30	85	0
ethanol	0.42	0.364	-	13.3	30	68	0
vinyl bromide	0.887	1.037	-	-16.9	30	108	0
acrolein	0.451	0.367	-	18.6	30	67	0
acetone	1.216	1.333	-	-9.6	30	102	0
trichlorofluoromethane	3.313	3.343	-	-0.9	30	77	0
isopropyl alcohol	1.397	1.289	-	7.7	30	84	0
acrylonitrile	0.865	0.828	-	4.3	30	76	0
1,1-dichloroethene	2.003	2.161	-	-7.9	30	81	0
tertiary butyl alcohol	2.465	2.365	-	4.1	30	71	0
methylene chloride	1.359	1.451	-	-6.8	30	80	0
3-chloropropene	1.071	1.301	-	-21.5	30	111	0
carbon disulfide	2.943	3.533	-	-20	30	109	0
Freon 113	2.79	2.928	-	-4.9	30	80	0
trans-1,2-dichloroethene	1.659	1.906	-	-14.9	30	109	0
1,1-dichloroethane	2.372	2.54	-	-7.1	30	81	0
MTBE	3.033	3.44	-	-13.4	30	110	0
vinyl acetate	2.061	1.549	-	24.8	30	73	0
2-butanone	1.272	1.498	-	-17.8	30	107	0
cis-1,2-dichloroethene	1.001	1.03	-	-2.9	30	80	0
Ethyl Acetate	0.219	0.253	-	-15.5	30	105	0
chloroform	1.804	1.83	-	-1.4	30	80	0
Tetrahydrofuran	0.471	0.599	-	-27.2	30	121	0
1,2-dichloroethane	1.115	1.092	-	2.1	30	78	0
1,4-difluorobenzene	1	1	-	0	30	77	0
hexane	0.237	0.282	-	-19	30	114	0
1,1,1-trichloroethane	0.51	0.532	-	-4.3	30	81	0
benzene	0.659	0.693	-	-5.2	30	81	0
carbon tetrachloride	0.519	0.552	-	-6.4	30	82	0
cyclohexane	0.236	0.272	-	-15.3	30	105	0
Dibromomethane	0.307	0.292	-	4.9	30	75	0
1,2-dichloropropane	0.237	0.252	-	-6.3	30	82	0
bromodichloromethane	0.464	0.551	-	-18.8	30	115	0
1,4-dioxane	0.128	0.153	-	-19.5	30	113	0
trichloroethene	0.343	0.362	-	-5.5	30	81	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Haley & Aldrich	**Lab Number**	: L2514968
Project Name	: 340 MYRTLE AVE	**Project Number**	: 0210873-000-001-13
Instrument ID	: AIRLAB26	**Calibration Date**	: 03/27/25 12:57
Lab File ID	: R262486	**Init. Calib. Date(s)**	: 03/14/25 03/15/25
Sample No	: WG2046190-2	**Init. Calib. Times**	: 20:29 01:31
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	0.751	0.94	-	-25.2	30	115	0
heptane	0.237	0.292	-	-23.2	30	112	0
cis-1,3-dichloropropene	0.347	0.403	-	-16.1	30	88	0
4-methyl-2-pentanone	0.341	0.409	-	-19.9	30	107	0
trans-1,3-dichloropropene	0.278	0.345	-	-24.1	30	93	0
1,1,2-trichloroethane	0.308	0.328	-	-6.5	30	81	0
chlorobenzene-D5	1	1	-	0	30	72	0
toluene	5.473	6.222	-	-13.7	30	80	0
2-hexanone	2.19	2.648	-	-20.9	30	101	0
dibromochloromethane	3.145	4.033	-	-28.2	30	114	0
1,2-dibromoethane	3.215	3.71	-	-15.4	30	82	0
tetrachloroethene	2.941	3.351	-	-13.9	30	81	0
1,1,1,2-tetrachloroethane	2.545	2.638	-	-3.7	30	76	0
chlorobenzene	4.923	5.356	-	-8.8	30	79	0
ethylbenzene	7.036	7.728	-	-9.8	30	74	0
m+p-xylene	5.726	6.573	-	-14.8	30	77	0
bromoform	2.816	3.915	-	-39*	30	120	0
styrene	3.893	4.671	-	-20	30	77	0
1,1,2,2-tetrachloroethane	4.546	5.158	-	-13.5	30	80	0
o-xylene	5.453	6.414	-	-17.6	30	78	0
1,2,3-Trichloropropane	3.218	3.387	-	-5.3	30	76	0
isopropylbenzene	7.797	8.637	-	-10.8	30	76	0
Bromobenzene	4.08	5.352	-	-31.2*	30	106	0
4-ethyl toluene	6.426	8.559	-	-33.2*	30	105	0
1,3,5-trimethylbenzene	5.929	7.176	-	-21	30	76	0
tert-butylbenzene	7.066	7.965	-	-12.7	30	75	0
1,2,4-trimethylbenzene	6.218	8.06	-	-29.6	30	81	0
Benzyl Chloride	3.588	4.786	-	-33.4*	30	113	0
1,3-dichlorobenzene	5.091	6.112	-	-20.1	30	78	0
1,4-dichlorobenzene	5.296	6.262	-	-18.2	30	80	0
sec-butylbenzene	9.644	10.821	-	-12.2	30	74	0
p-isopropyltoluene	8.837	9.926	-	-12.3	30	73	0
1,2-dichlorobenzene	5.036	6.075	-	-20.6	30	79	0
n-butylbenzene	7.845	9.082	-	-15.8	30	75	0
1,2-dibromo-3-chloropropan	2.181	2.395	-	-9.8	30	75	0
1,2,4-trichlorobenzene	4.362	5.221	-	-19.7	30	77	0
naphthalene	9.588	11.427	-	-19.2	30	74	0
1,2,3-trichlorobenzene	4.539	6.679	-	-47.1*	30	80	0
hexachlorobutadiene	3.638	4.329	-	-19	30	75	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	77	0.00
2		propylene	0.182	0.261	-43.4#	138	0.00
3		dichlorodifluoromethane	1.849	2.287	-23.7	95	0.00
4	C	chloromethane	0.630	0.680	-7.9	80	0.00
5		Freon-114	2.494	2.879	-15.4	87	0.00
6	C	vinyl chloride	0.838	0.907	-8.2	84	0.00
7	C	1,3-butadiene	0.488	0.564	-15.6	116	0.00
8	C	bromomethane	0.867	0.978	-12.8	88	0.00
9	C	chloroethane	0.450	0.506	-12.4	85	0.00
10		ethanol	0.420	0.364	13.3	68	0.00
11	C	vinyl bromide	0.887	1.037	-16.9	108	0.00
12	C	acrolein	0.451	0.367	18.6	67	0.00
13		acetone	1.216	1.333	-9.6	102	0.00
14		trichlorofluoromethane	3.313	3.343	-0.9	77	0.00
15		isopropyl alcohol	1.397	1.289	7.7	84	0.00
16	C	acrylonitrile	0.865	0.828	4.3	76	0.00
17	C	1,1-dichloroethene	2.003	2.161	-7.9	81	0.00
18		tertiary butyl alcohol	2.465	2.365	4.1	71	0.00
19	C	methylene chloride	1.359	1.451	-6.8	80	0.00
20	C	3-chloropropene	1.071	1.301	-21.5	111	0.00
21	C	carbon disulfide	2.943	3.533	-20.0	109	0.00
22		Freon 113	2.790	2.928	-4.9	80	0.00
23		trans-1,2-dichloroethene	1.659	1.906	-14.9	109	0.00
24	C	1,1-dichloroethane	2.372	2.540	-7.1	81	0.00
25	C	MTBE	3.033	3.440	-13.4	110	0.00
26	C	vinyl acetate	2.061	1.549	24.8	73	0.00
27	C	2-butanone	1.272	1.498	-17.8	107	0.00
28		cis-1,2-dichloroethene	1.001	1.030	-2.9	80	0.00
29		Ethyl Acetate	0.219	0.253	-15.5	105	0.00
30	C	chloroform	1.804	1.830	-1.4	80	0.00
31		Tetrahydrofuran	0.471	0.599	-27.2	121	0.00
32	C	1,2-dichloroethane	1.115	1.092	2.1	78	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00
34	C	hexane	0.237	0.282	-19.0	114	0.00
36	C	1,1,1-trichloroethane	0.510	0.532	-4.3	81	0.00
37	C	benzene	0.659	0.693	-5.2	81	0.00
38	C	carbon tetrachloride	0.519	0.552	-6.4	82	0.00
39		cyclohexane	0.236	0.272	-15.3	105	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	0.307	0.292	4.9	75	0.00
41	C	1,2-dichloropropane	0.237	0.252	-6.3	82	0.00
42		bromodichloromethane	0.464	0.551	-18.8	115	0.00
43	C	1,4-dioxane	0.128	0.153	-19.5	113	0.00
44	C	trichloroethene	0.343	0.362	-5.5	81	0.00
45	C	2,2,4-trimethylpentane	0.751	0.940	-25.2	115	0.00
46		heptane	0.237	0.292	-23.2	112	0.00
47	C	cis-1,3-dichloropropene	0.347	0.403	-16.1	88	0.00
48	C	4-methyl-2-pentanone	0.341	0.409	-19.9	107	0.00
49		trans-1,3-dichloropropene	0.278	0.345	-24.1	93	0.00
50	C	1,1,2-trichloroethane	0.308	0.328	-6.5	81	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	72	0.00
52	C	toluene	5.473	6.222	-13.7	80	0.00
54		2-hexanone	2.190	2.648	-20.9	101	0.00
55		dibromochloromethane	3.145	4.033	-28.2	114	0.00
56	C	1,2-dibromoethane	3.215	3.710	-15.4	82	0.00
57	C	tetrachloroethene	2.941	3.351	-13.9	81	0.00
58		1,1,1,2-tetrachloroethane	2.545	2.638	-3.7	76	0.00
59	C	chlorobenzene	4.923	5.356	-8.8	79	0.00
60	C	ethylbenzene	7.036	7.728	-9.8	74	0.00
61	C	m+p-xylene	5.726	6.573	-14.8	77	0.00
62	C	bromoform	2.816	3.915	-39.0#	120	0.00
63	C	styrene	3.893	4.671	-20.0	77	0.00
64	C	1,1,2,2-tetrachloroethane	4.546	5.158	-13.5	80	0.00
65	C	o-xylene	5.453	6.414	-17.6	78	0.00
66		1,2,3-Trichloropropane	3.218	3.387	-5.3	76	0.00
68	C	isopropylbenzene	7.797	8.637	-10.8	76	0.00
69		Bromobenzene	4.080	5.352	-31.2#	106	0.00
70		4-ethyl toluene	6.426	8.559	-33.2#	105	0.00
71		1,3,5-trimethylbenzene	5.929	7.176	-21.0	76	0.00
72		tert-butylbenzene	7.066	7.965	-12.7	75	0.00
73		1,2,4-trimethylbenzene	6.218	8.060	-29.6	81	0.00
74	C	Benzyl Chloride	3.588	4.786	-33.4#	113	0.00
75		1,3-dichlorobenzene	5.091	6.112	-20.1	78	0.00
76	C	1,4-dichlorobenzene	5.296	6.262	-18.2	80	0.00
77		sec-butylbenzene	9.644	10.821	-12.2	74	0.00
78		p-isopropyltoluene	8.837	9.926	-12.3	73	0.00
79		1,2-dichlorobenzene	5.036	6.075	-20.6	79	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	7.845	9.082	-15.8	75	0.00
81	1,2-dibromo-3-chloropropane	2.181	2.395	-9.8	75	0.00
82 C	1,2,4-trichlorobenzene	4.362	5.221	-19.7	77	0.00
83	naphthalene	9.588	11.427	-19.2	74	0.00
84	1,2,3-trichlorobenzene	4.539	6.679	-47.1#	80	0.00
85 C	hexachlorobutadiene	3.638	4.329	-19.0	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 : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	206550	10.000	ppbV	0.00
Standard Area = 206550			Recovery = 100.00%			
33) 1,4-difluorobenzene	4.368	114	727429	10.000	ppbV	0.00
Standard Area = 727429			Recovery = 100.00%			
51) chlorobenzene-D5	6.448	54	103758	10.000	ppbV	0.00
Standard Area = 103758			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	2.004	41	26935M6	7.163	ppbV	
3) dichlorodifluoromethane	2.026	85	236226	6.185	ppbV	100
4) chloromethane	2.076	50	70255M4	5.401	ppbV	
5) Freon-114	2.109	85	297319	5.772	ppbV	100
6) vinyl chloride	2.141	62	93647	5.412	ppbV	100
7) 1,3-butadiene	2.185	54	58280	5.782	ppbV	82
8) bromomethane	2.273	94	100961	5.639	ppbV	100
9) chloroethane	2.328	64	52234	5.622	ppbV	94
10) ethanol	2.356	31	187891	21.634	ppbV	97
11) vinyl bromide	2.434	106	107062	5.840	ppbV	100
12) acrolein	2.462	56	37880	4.067	ppbV	97
13) acetone	2.502	43	688524	27.415	ppbV	98
14) trichlorofluoromethane	2.553	101	345227	5.045	ppbV	100
15) isopropyl alcohol	2.564	45	332762	11.531	ppbV	100
16) acrylonitrile	2.626	53	85562	4.788	ppbV	95
17) 1,1-dichloroethene	2.728	61	223209	5.395	ppbV	100
18) tertiary butyl alcohol	2.738	59	244247	4.797	ppbV	100
19) methylene chloride	2.757	49	149856	5.339	ppbV	99
20) 3-chloropropene	2.795	41	134318	6.075	ppbV	97
21) carbon disulfide	2.848	76	364856	6.001	ppbV	99
22) Freon 113	2.848	101	302383	5.247	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	196830	5.745	ppbV	100
24) 1,1-dichloroethane	3.130	63	262299	5.353	ppbV	100
25) MTBE	3.161	73	355313	5.672	ppbV	99
26) vinyl acetate	3.192	43	159959	3.758	ppbV	96
27) 2-butanone	3.281	43	154719	5.887	ppbV	97
28) cis-1,2-dichloroethene	3.443	61	106343	5.143	ppbV	99
29) Ethyl Acetate	3.555	61	26149M6	5.775	ppbV	
30) chloroform	3.562	83	188984	5.071	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	3.727	42	61869M6	6.358	ppbV		
32) 1,2-dichloroethane	3.863	62	112781	4.897	ppbV	#	98
34) hexane	3.540	57	102624	5.944	ppbV		79
36) 1,1,1-trichloroethane	3.985	97	193402	5.212	ppbV		99
37) benzene	4.179	78	252209	5.261	ppbV		98
38) carbon tetrachloride	4.255	117	200728	5.321	ppbV	#	97
39) cyclohexane	4.302	56	98801	5.751	ppbV	#	71
40) Dibromomethane	4.538	93	106028	4.744	ppbV	#	93
41) 1,2-dichloropropane	4.556	63	91559	5.310	ppbV		99
42) bromodichloromethane	4.651	83	200448	5.936	ppbV		99
43) 1,4-dioxane	4.688	88	55553	5.953	ppbV		99
44) trichloroethene	4.679	130	131543	5.278	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	341817	6.261	ppbV		97
46) heptane	4.858	43	106351	6.167	ppbV		98
47) cis-1,3-dichloropropene	5.106	75	146641	5.801	ppbV		100
48) 4-methyl-2-pentanone	5.146	43	148865M4	6.006	ppbV		
49) trans-1,3-dichloropropene	5.377	75	125458	6.194	ppbV		98
50) 1,1,2-trichloroethane	5.449	97	119210	5.321	ppbV		99
52) toluene	5.585	91	322800	5.685	ppbV		99
54) 2-hexanone	5.753	43	137378	6.046	ppbV		96
55) dibromochloromethane	5.776	129	209238	6.412	ppbV		100
56) 1,2-dibromoethane	5.896	107	192452	5.769	ppbV		100
57) tetrachloroethene	6.144	166	173846	5.697	ppbV		97
58) 1,1,1,2-tetrachloroethane	6.469	131	136844	5.183	ppbV	#	99
59) chlorobenzene	6.469	112	277882	5.441	ppbV		99
60) ethylbenzene	6.671	91	400935	5.492	ppbV		100
61) m+p-xylene	6.764	91	681994	11.478	ppbV		100
62) bromoform	6.764	173	203117	6.952	ppbV		100
63) styrene	6.938	104	242303	5.999	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.985	83	267605	5.673	ppbV		100
65) o-xylene	6.991	91	332777	5.881	ppbV		99
66) 1,2,3-Trichloropropane	7.049	75	175733	5.263	ppbV		99
68) isopropylbenzene	7.293	105	448077	5.538	ppbV		98
69) Bromobenzene	7.305	77	277645	6.558	ppbV	#	77
70) 4-ethyl toluene	7.633	105	444020	6.660	ppbV	#	96
71) 1,3,5-trimethylbenzene	7.681	105	372295	6.052	ppbV	#	95
72) tert-butylbenzene	7.889	119	413196	5.636	ppbV		100
73) 1,2,4-trimethylbenzene	7.897	105	418162	6.482	ppbV		95
74) Benzyl Chloride	7.952	91	248309	6.670	ppbV		99
75) 1,3-dichlorobenzene	7.952	146	317102	6.003	ppbV	#	74

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : Default-LCS-AP2 - All compounds listed

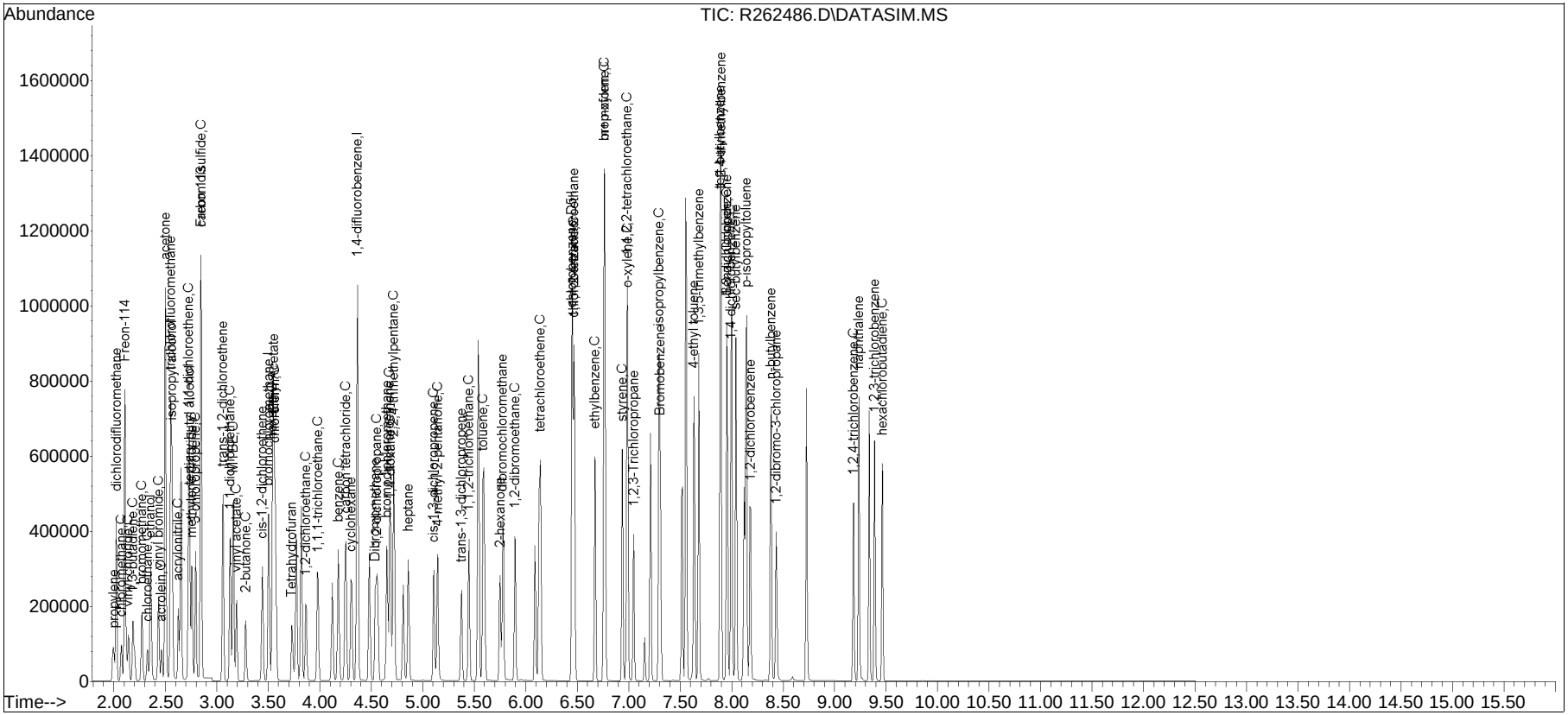
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
76) 1,4-dichlorobenzene	7.992	146	324862M3	5.912	ppbV		
77) sec-butylbenzene	8.040	105	561384	5.610	ppbV		99
78) p-isopropyltoluene	8.144	119	514955	5.616	ppbV		99
79) 1,2-dichlorobenzene	8.184	146	315183	6.032	ppbV		97
80) n-butylbenzene	8.384	91	471179	5.788	ppbV		99
81) 1,2-dibromo-3-chloropr...	8.431	75	124258	5.490	ppbV	#	92
82) 1,2,4-trichlorobenzene	9.184	180	270867	5.985	ppbV		98
83) naphthalene	9.236	128	592838	5.959	ppbV		97
84) 1,2,3-trichlorobenzene	9.388	180	346520	7.358	ppbV		99
85) hexachlorobutadiene	9.464	225	224586	5.950	ppbV		97

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

Sub List : Default-LCS-AP2 - All compounds listedM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-2,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

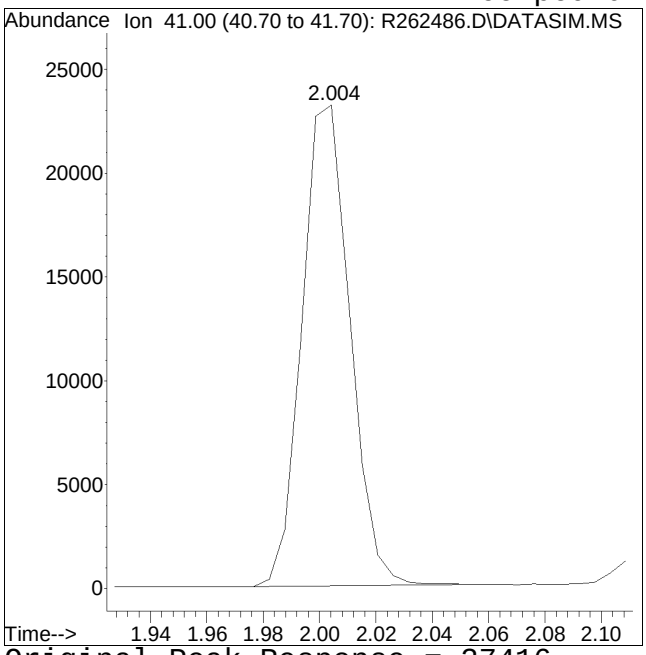
Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration



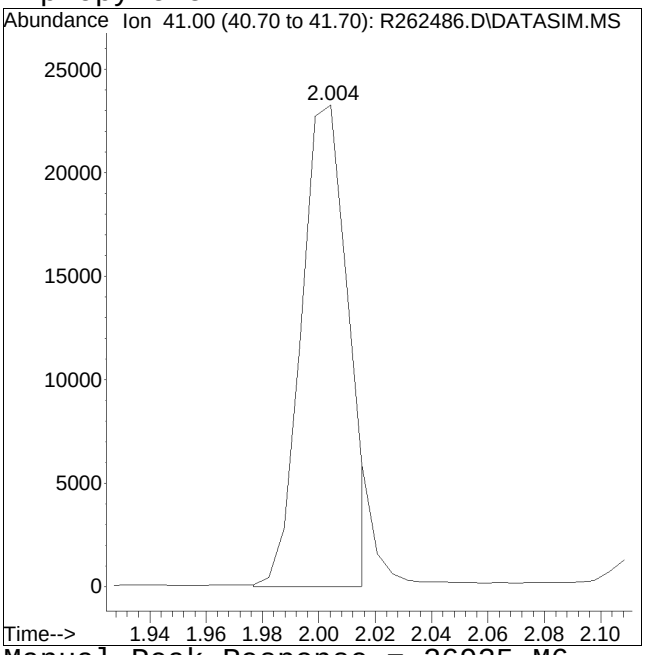
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262486.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:57 pm Instrument : Airlab26
Sample : WG2046190-2,3,250,250 Quant Date : 3/27/2025 2:53 pm

Compound #2: propylene



Original Peak Response = 27416



Manual Peak Response = 26935 M6

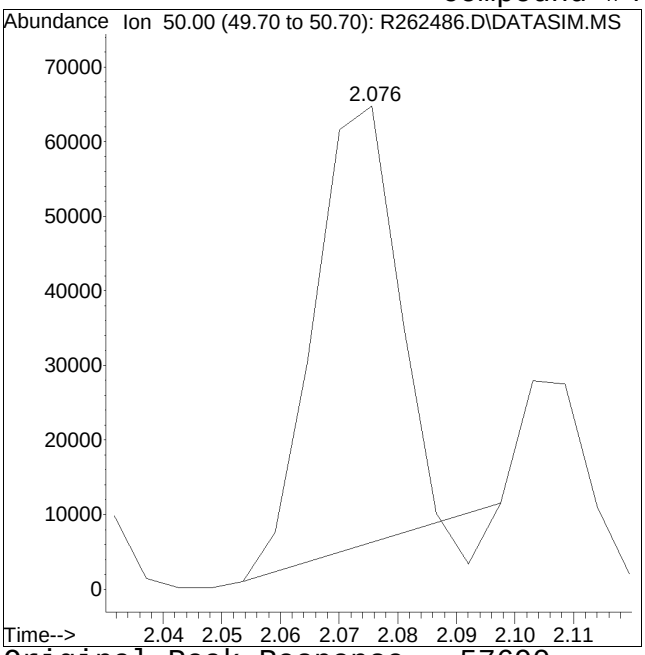
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

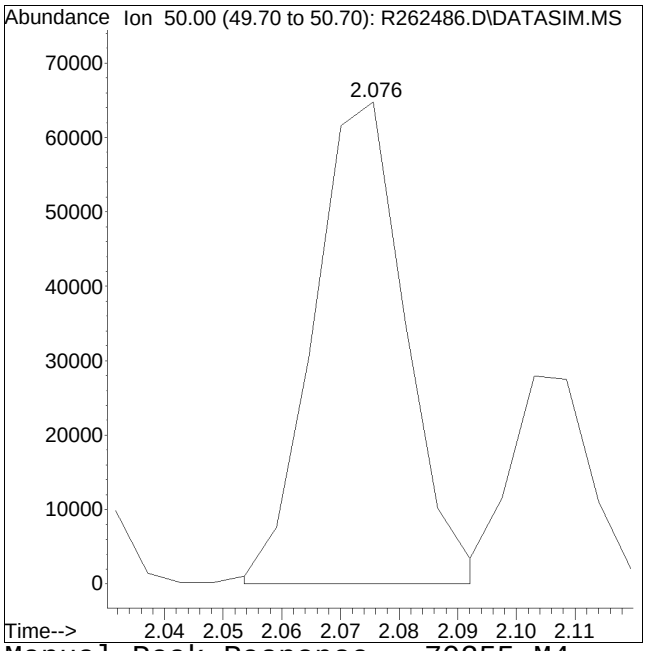
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262486.D
Date Inj'd : 3/27/2025 12:57 pm
Sample : WG2046190-2,3,250,250

Method : TSIM26_250314.M
Operator : AIRLAB26:TPH
Instrument : Airlab26
Quant Date : 3/27/2025 2:53 pm

Compound #4: chloromethane



Original Peak Response = 57690



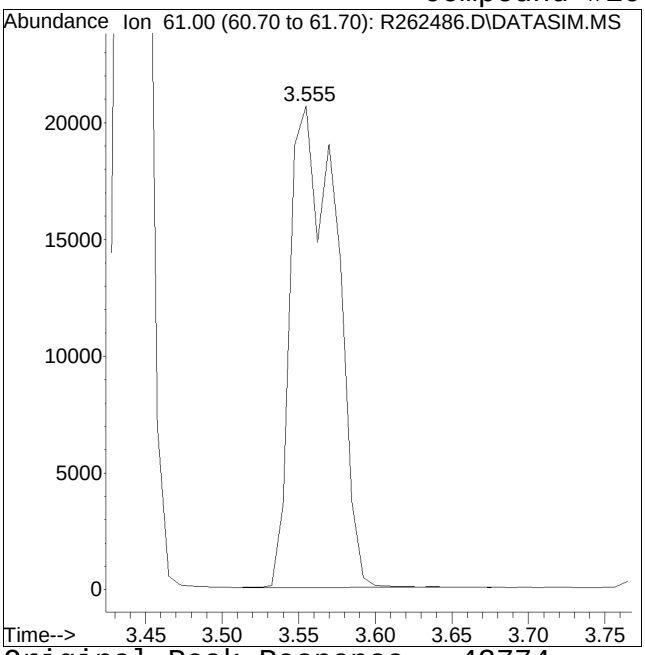
Manual Peak Response = 70255 M4

M4 = Poor automated baseline construction.

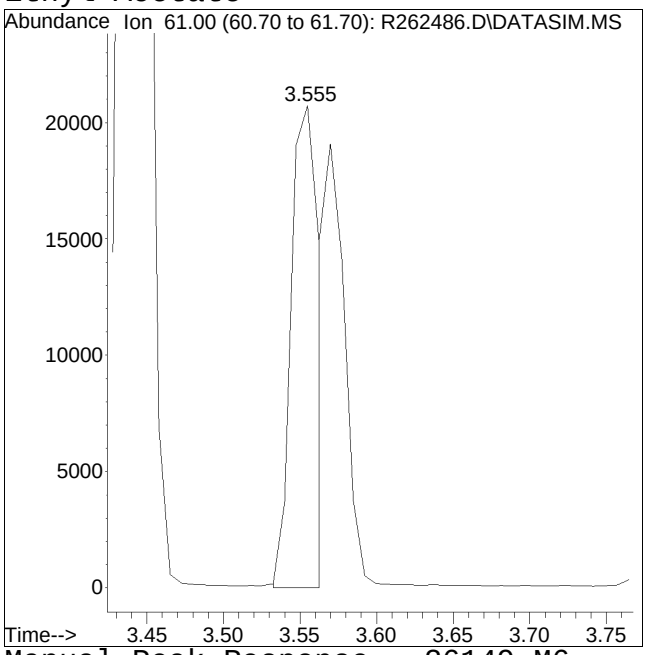
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262486.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:57 pm Instrument : Airlab26
Sample : WG2046190-2,3,250,250 Quant Date : 3/27/2025 2:53 pm

Compound #29: Ethyl Acetate



Original Peak Response = 42774



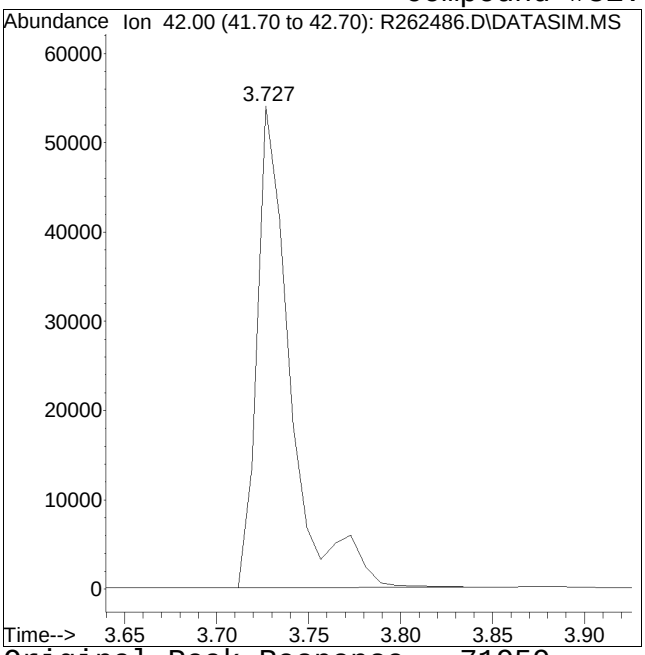
Manual Peak Response = 26149 M6

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

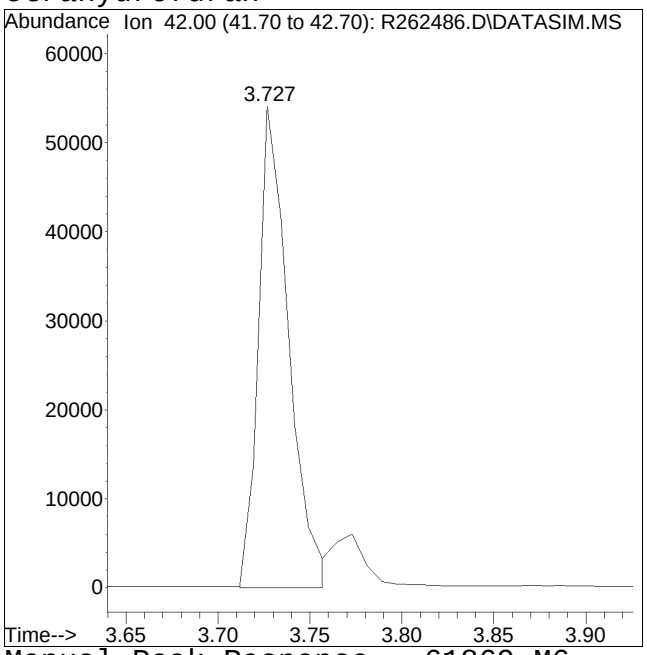
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262486.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:57 pm Instrument : Airlab26
Sample : WG2046190-2,3,250,250 Quant Date : 3/27/2025 2:53 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 71959



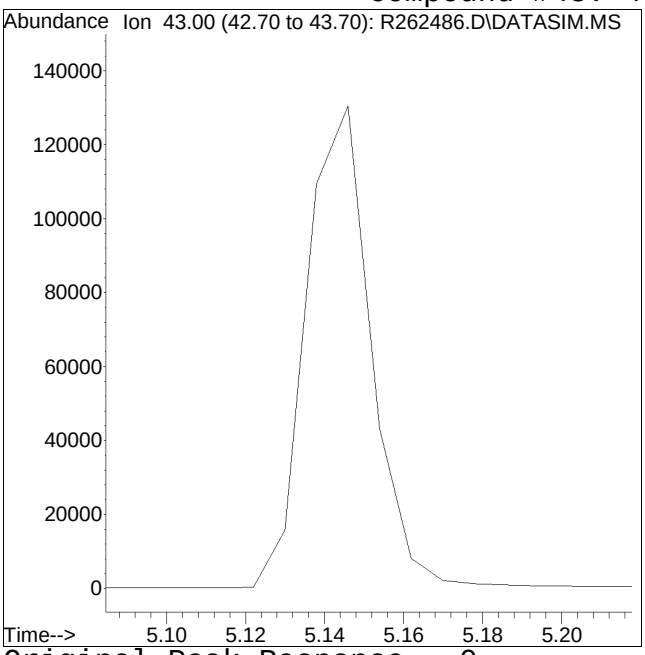
Manual Peak Response = 61869 M6

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

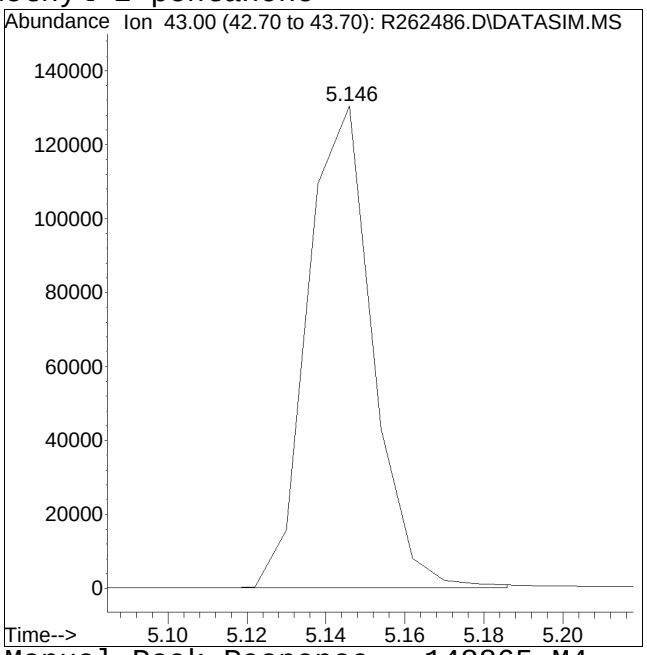
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262486.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:57 pm Instrument : Airlab26
Sample : WG2046190-2,3,250,250 Quant Date : 3/27/2025 2:53 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 0



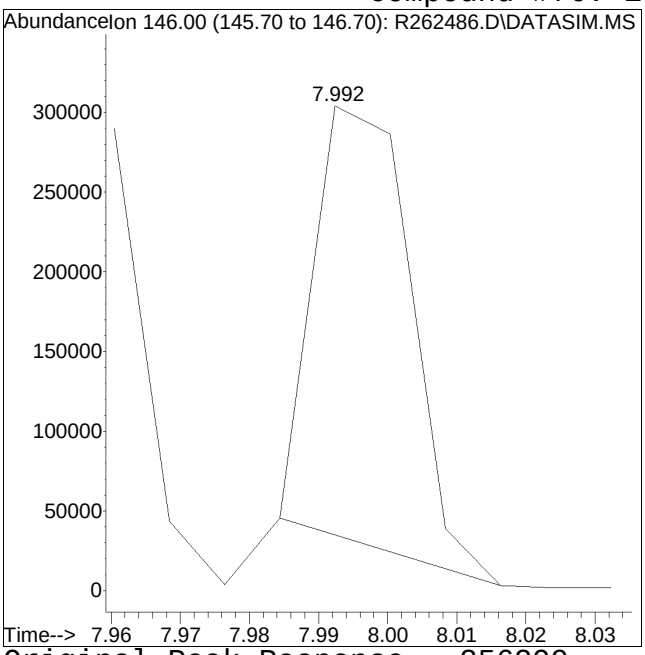
Manual Peak Response = 148865 M4

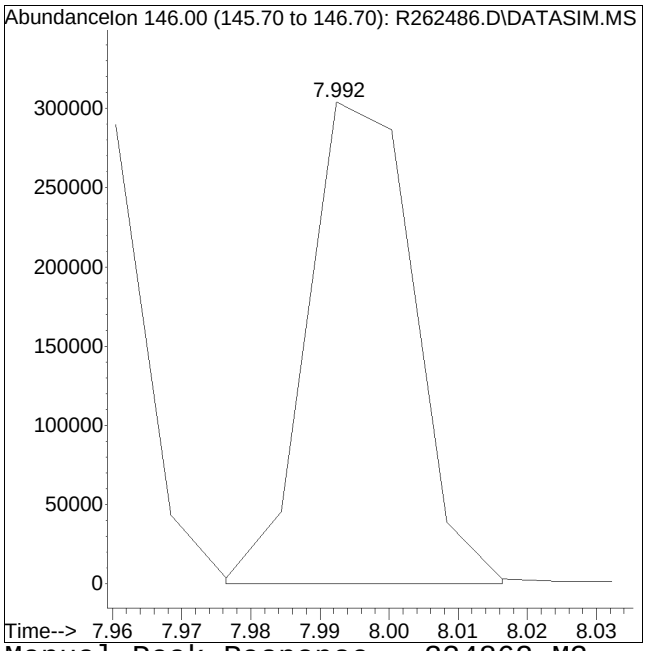
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250314.M
Data File : R262486.D Operator : AIRLAB26:TPH
Date Inj'd : 3/27/2025 12:57 pm Instrument : Airlab26
Sample : WG2046190-2,3,250,250 Quant Date : 3/27/2025 2:53 pm

Compound #76: 1,4-dichlorobenzene



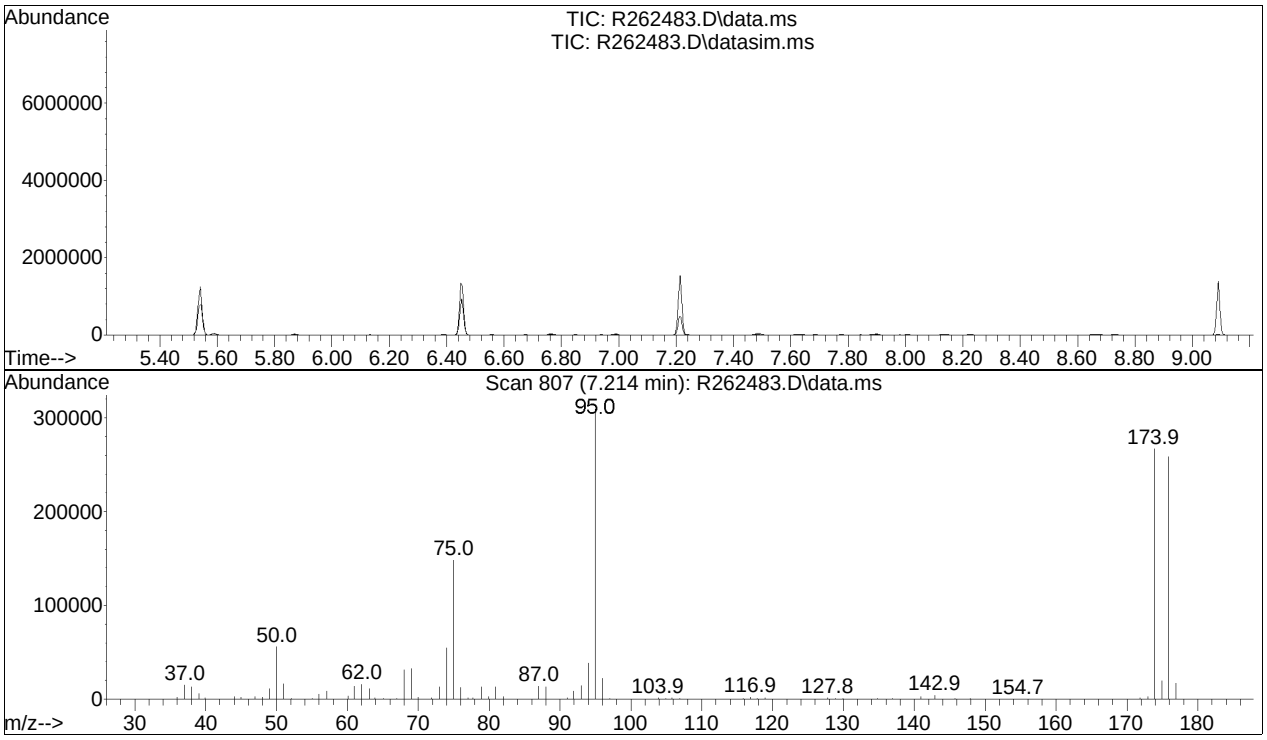


Original Peak Response = 256299 Manual Peak Response = 324862 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262483.D
Acq On : 27 Mar 2025 11:06 am
Operator : AIRLAB26:TPH
Sample : WG2046190-1,3,250,250 (Sig #1); TA26032601 (Sig #2)
Misc : WG2046190,ICAL22108 (Sig #1); 250 mL (Sig #2)
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p

Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Mar 19 15:05:08 2025



Spectrum Information: Scan 807

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	55864	PASS
75	95	30	66	47.9	148224	PASS
95	95	100	100	100.0	309376	PASS
96	95	5	9	7.1	21960	PASS
173	174	0.00	2	1.0	2751	PASS
174	95	50	120	86.3	267072	PASS
175	174	4	9	7.5	19952	PASS
176	174	93	101	96.8	258496	PASS
177	176	5	9	6.5	16928	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262488.D
Acq On : 27 Mar 2025 03:39 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-4,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 07:22:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : Default-LCS-AP2 - All compounds listed

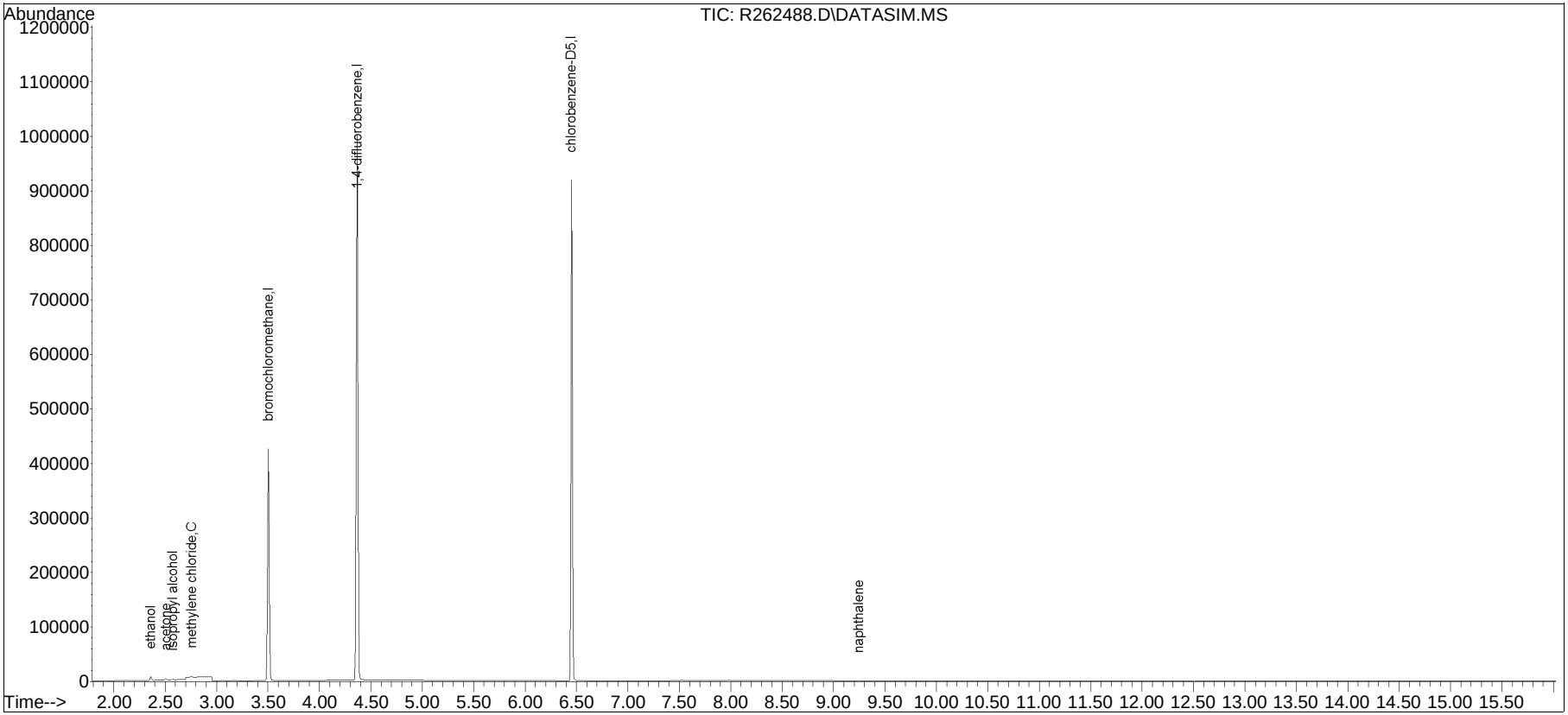
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	195597	10.000	ppbV	0.00
Standard Area = 206550			Recovery =		94.70%	
33) 1,4-difluorobenzene	4.368	114	657391	10.000	ppbV	0.00
Standard Area = 727429			Recovery =		90.37%	
51) chlorobenzene-D5	6.452	54	94404	10.000	ppbV	0.00
Standard Area = 103758			Recovery =		90.98%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.065		0		N.D.	
17) 1,1-dichloroethene	2.733		0		N.D.	
28) cis-1,2-dichloroethene	3.436		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	4.085		0		N.D.	
44) trichloroethene	4.679		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 listedM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262488.D
Acq On : 27 Mar 2025 03:39 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-4,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Mar 28 07:22:39 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-3,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	77	0.00
2		propylene	5.000	7.163	-43.3#	138	0.00
3		dichlorodifluoromethane	5.000	6.185	-23.7	95	0.00
4	C	chloromethane	5.000	5.401	-8.0	80	0.00
5		Freon-114	5.000	5.772	-15.4	87	0.00
6	C	vinyl chloride	5.000	5.412	-8.2	84	0.00
7	C	1,3-butadiene	5.000	5.782	-15.6	116	0.00
8	C	bromomethane	5.000	5.639	-12.8	88	0.00
9	C	chloroethane	5.000	5.622	-12.4	85	0.00
10		ethanol	25.000	21.634	13.5	68	0.00
11	C	vinyl bromide	5.000	5.840	-16.8	108	0.00
12	C	acrolein	5.000	4.067	18.7	67	0.00
13		acetone	25.000	27.415	-9.7	102	0.00
14		trichlorofluoromethane	5.000	5.045	-0.9	77	0.00
15		isopropyl alcohol	12.500	11.531	7.8	84	0.00
16	C	acrylonitrile	5.000	4.788	4.2	76	0.00
17	C	1,1-dichloroethene	5.000	5.395	-7.9	81	0.00
18		tertiary butyl alcohol	5.000	4.797	4.1	71	0.00
19	C	methylene chloride	5.000	5.339	-6.8	80	0.00
20	C	3-chloropropene	5.000	6.075	-21.5	111	0.00
21	C	carbon disulfide	5.000	6.001	-20.0	109	0.00
22		Freon 113	5.000	5.247	-4.9	80	0.00
23		trans-1,2-dichloroethene	5.000	5.745	-14.9	109	0.00
24	C	1,1-dichloroethane	5.000	5.353	-7.1	81	0.00
25	C	MTBE	5.000	5.672	-13.4	110	0.00
26	C	vinyl acetate	5.000	3.758	24.8	73	0.00
27	C	2-butanone	5.000	5.887	-17.7	107	0.00
28		cis-1,2-dichloroethene	5.000	5.143	-2.9	80	0.00
29		Ethyl Acetate	5.000	5.775	-15.5	105	0.00
30	C	chloroform	5.000	5.071	-1.4	80	0.00
31		Tetrahydrofuran	5.000	6.358	-27.2	121	0.00
32	C	1,2-dichloroethane	5.000	4.897	2.1	78	0.00
33	I	1,4-difluorobenzene	10.000	10.000	0.0	77	0.00
34	C	hexane	5.000	5.944	-18.9	114	0.00
36	C	1,1,1-trichloroethane	5.000	5.212	-4.2	81	0.00
37	C	benzene	5.000	5.261	-5.2	81	0.00
38	C	carbon tetrachloride	5.000	5.321	-6.4	82	0.00
39		cyclohexane	5.000	5.751	-15.0	105	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-3,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	4.744	5.1	75	0.00
41	C	1,2-dichloropropane	5.000	5.310	-6.2	82	0.00
42		bromodichloromethane	5.000	5.936	-18.7	115	0.00
43	C	1,4-dioxane	5.000	5.953	-19.1	113	0.00
44	C	trichloroethene	5.000	5.278	-5.6	81	0.00
45	C	2,2,4-trimethylpentane	5.000	6.261	-25.2	115	0.00
46		heptane	5.000	6.167	-23.3	112	0.00
47	C	cis-1,3-dichloropropene	5.000	5.801	-16.0	88	0.00
48	C	4-methyl-2-pentanone	5.000	6.006	-20.1	107	0.00
49		trans-1,3-dichloropropene	5.000	6.194	-23.9	93	0.00
50	C	1,1,2-trichloroethane	5.000	5.321	-6.4	81	0.00
51	I	chlorobenzene-D5	10.000	10.000	0.0	72	0.00
52	C	toluene	5.000	5.685	-13.7	80	0.00
54		2-hexanone	5.000	6.046	-20.9	101	0.00
55		dibromochloromethane	5.000	6.412	-28.2	114	0.00
56	C	1,2-dibromoethane	5.000	5.769	-15.4	82	0.00
57	C	tetrachloroethene	5.000	5.697	-13.9	81	0.00
58		1,1,1,2-tetrachloroethane	5.000	5.183	-3.7	76	0.00
59	C	chlorobenzene	5.000	5.441	-8.8	79	0.00
60	C	ethylbenzene	5.000	5.492	-9.8	74	0.00
61	C	m+p-xylene	10.000	11.478	-14.8	77	0.00
62	C	bromoform	5.000	6.952	-39.0#	120	0.00
63	C	styrene	5.000	5.999	-20.0	77	0.00
64	C	1,1,2,2-tetrachloroethane	5.000	5.673	-13.5	80	0.00
65	C	o-xylene	5.000	5.881	-17.6	78	0.00
66		1,2,3-Trichloropropane	5.000	5.263	-5.3	76	0.00
68	C	isopropylbenzene	5.000	5.538	-10.8	76	0.00
69		Bromobenzene	5.000	6.558	-31.2#	106	0.00
70		4-ethyl toluene	5.000	6.660	-33.2#	105	0.00
71		1,3,5-trimethylbenzene	5.000	6.052	-21.0	76	0.00
72		tert-butylbenzene	5.000	5.636	-12.7	75	0.00
73		1,2,4-trimethylbenzene	5.000	6.482	-29.6	81	0.00
74	C	Benzyl Chloride	5.000	6.670	-33.4#	113	0.00
75		1,3-dichlorobenzene	5.000	6.003	-20.1	78	0.00
76	C	1,4-dichlorobenzene	5.000	5.912	-18.2	80	0.00
77		sec-butylbenzene	5.000	5.610	-12.2	74	0.00
78		p-isopropyltoluene	5.000	5.616	-12.3	73	0.00
79		1,2-dichlorobenzene	5.000	6.032	-20.6	79	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-3,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
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	5.788	-15.8	75	0.00
81		1,2-dibromo-3-chloropropane	5.000	5.490	-9.8	75	0.00
82	C	1,2,4-trichlorobenzene	5.000	5.985	-19.7	77	0.00
83		naphthalene	5.000	5.959	-19.2	74	0.00
84		1,2,3-trichlorobenzene	5.000	7.358	-47.2#	80	0.00
85	C	hexachlorobutadiene	5.000	5.950	-19.0	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 : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-3,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : Default-LCS-AP2 - All compounds listed

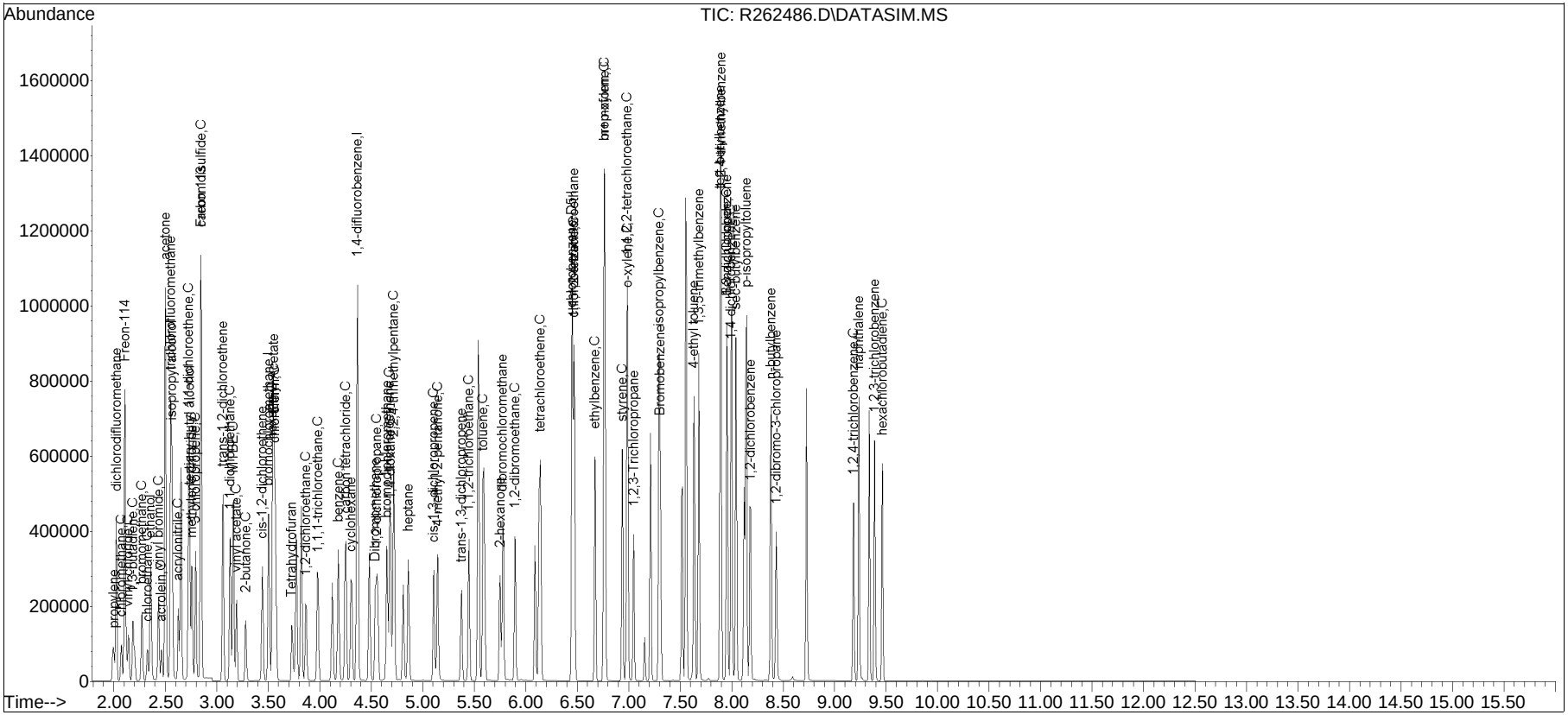
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	206550	10.000	ppbV	0.00
Standard Area = 206550			Recovery = 100.00%			
33) 1,4-difluorobenzene	4.368	114	727429	10.000	ppbV	0.00
Standard Area = 727429			Recovery = 100.00%			
51) chlorobenzene-D5	6.448	54	103758	10.000	ppbV	0.00
Standard Area = 103758			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.141	62	93647	5.412	ppbV	100
17) 1,1-dichloroethene	2.728	61	223209	5.395	ppbV	100
28) cis-1,2-dichloroethene	3.443	61	106343	5.143	ppbV	99
36) 1,1,1-trichloroethane	3.985	97	193402	5.212	ppbV	99
38) carbon tetrachloride	4.255	117	200728	5.321	ppbV #	97
44) trichloroethene	4.679	130	131543	5.278	ppbV	100
57) tetrachloroethene	6.144	166	173846	5.697	ppbV	97

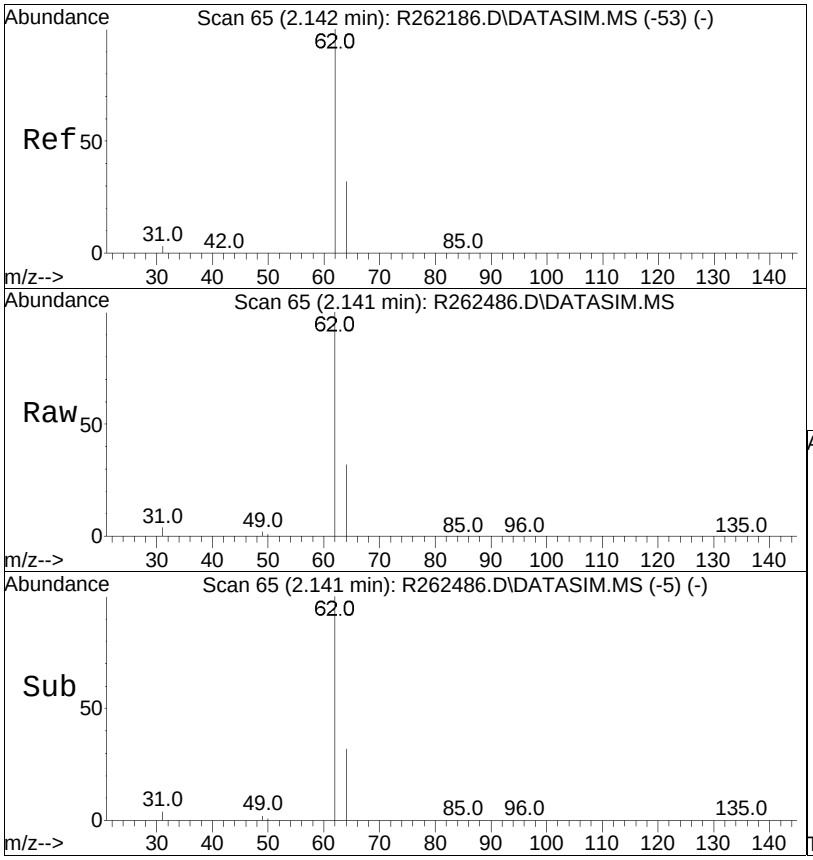
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listedM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262486.D
Acq On : 27 Mar 2025 12:57 pm
Operator : AIRLAB26:TPH
Sample : WG2046190-3,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Mar 27 14:53:47 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

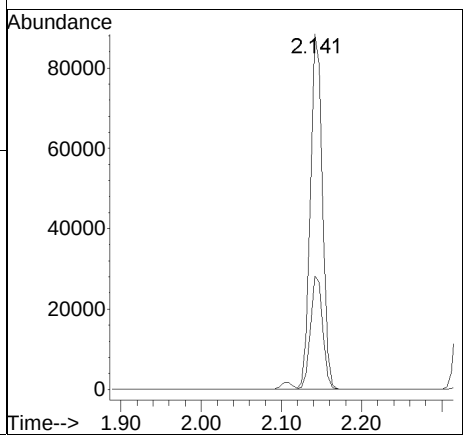


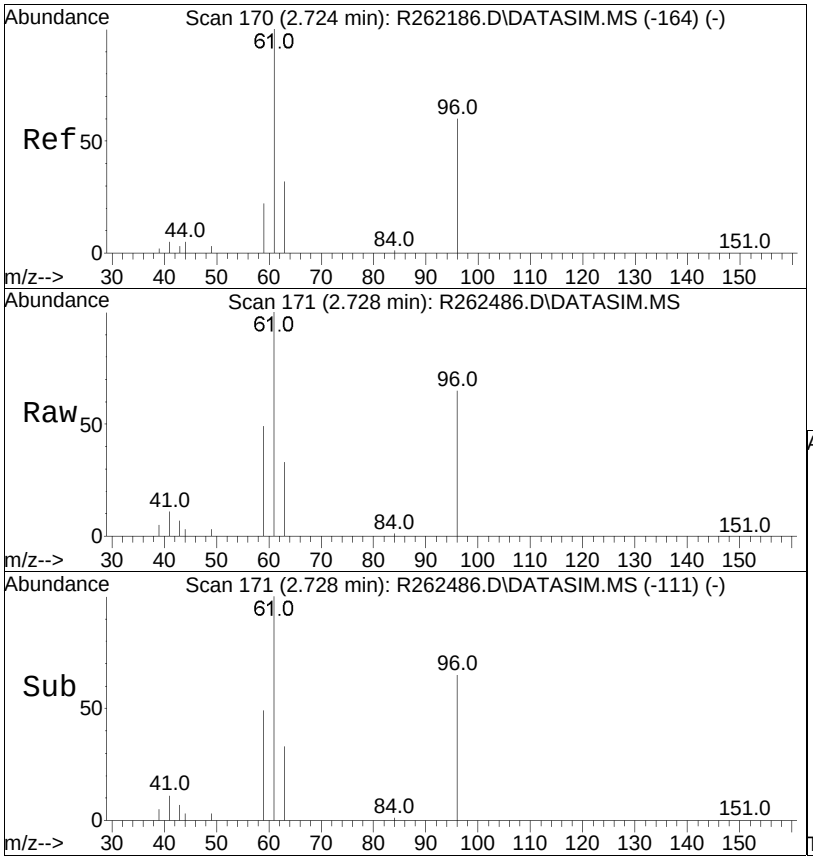


#6
vinyl chloride
Concen: 5.41 ppbV
RT: 2.141 min Scan# 65
Delta R.T. -0.000 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion: 62 Resp: 93647

Ion	Ratio	Lower	Upper
62	100		
64	31.7	25.3	37.9

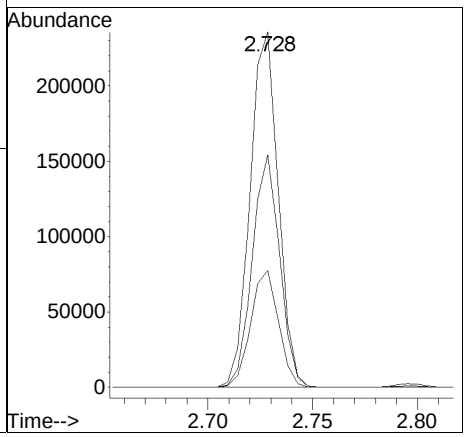


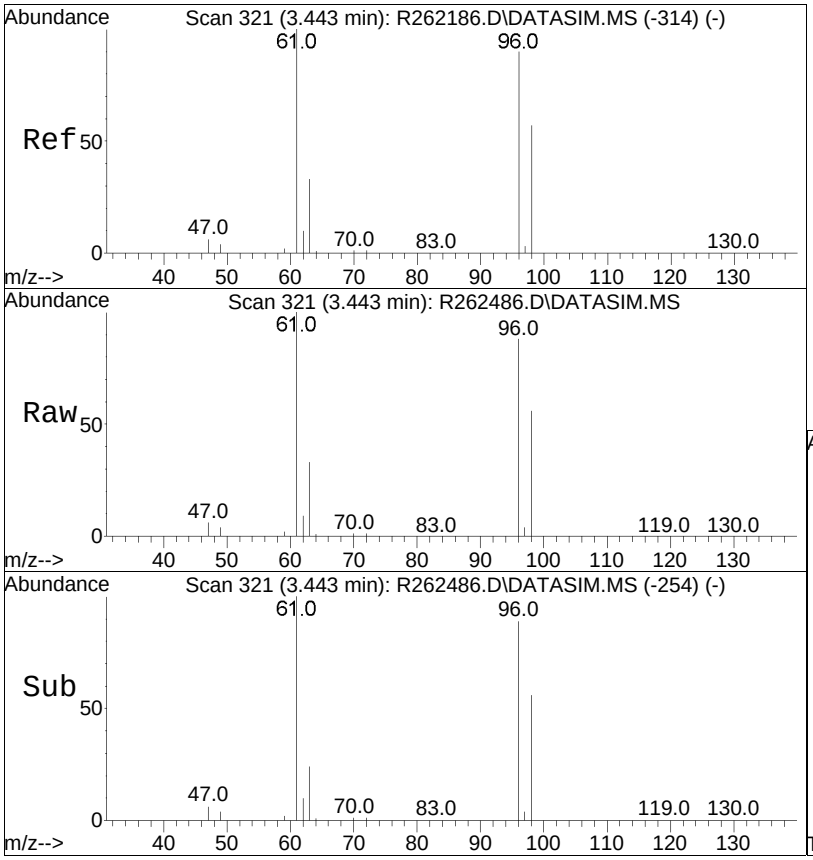


#17
1,1-dichloroethene
Concen: 5.39 ppbV
RT: 2.728 min Scan# 171
Delta R.T. 0.005 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion: 61 Resp: 223209

Ion	Ratio	Lower	Upper
61	100		
96	63.6	50.6	76.0
63	32.6	25.9	38.9

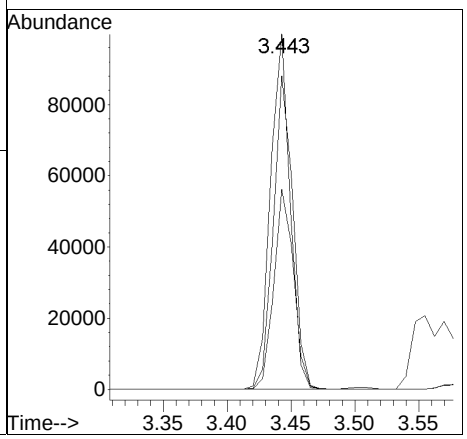


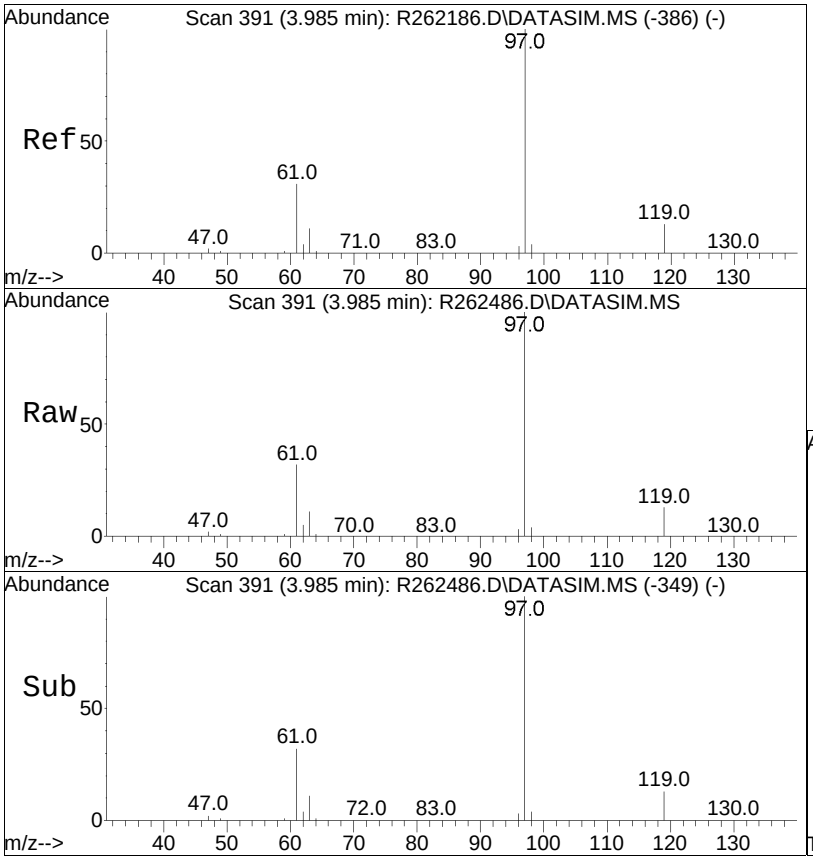


#28
cis-1,2-dichloroethene
Concen: 5.14 ppbV
RT: 3.443 min Scan# 321
Delta R.T. -0.000 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion: 61 Resp: 106343

Ion	Ratio	Lower	Upper
61	100		
96	88.7	69.8	104.8
98	56.7	44.5	66.7

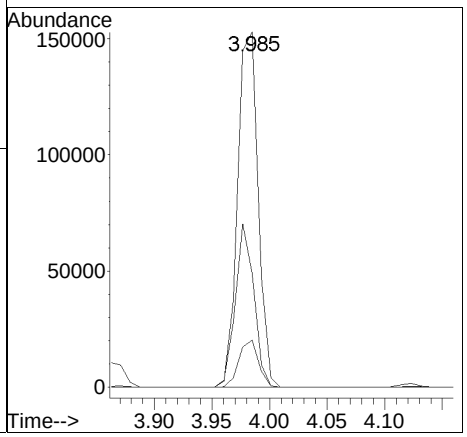


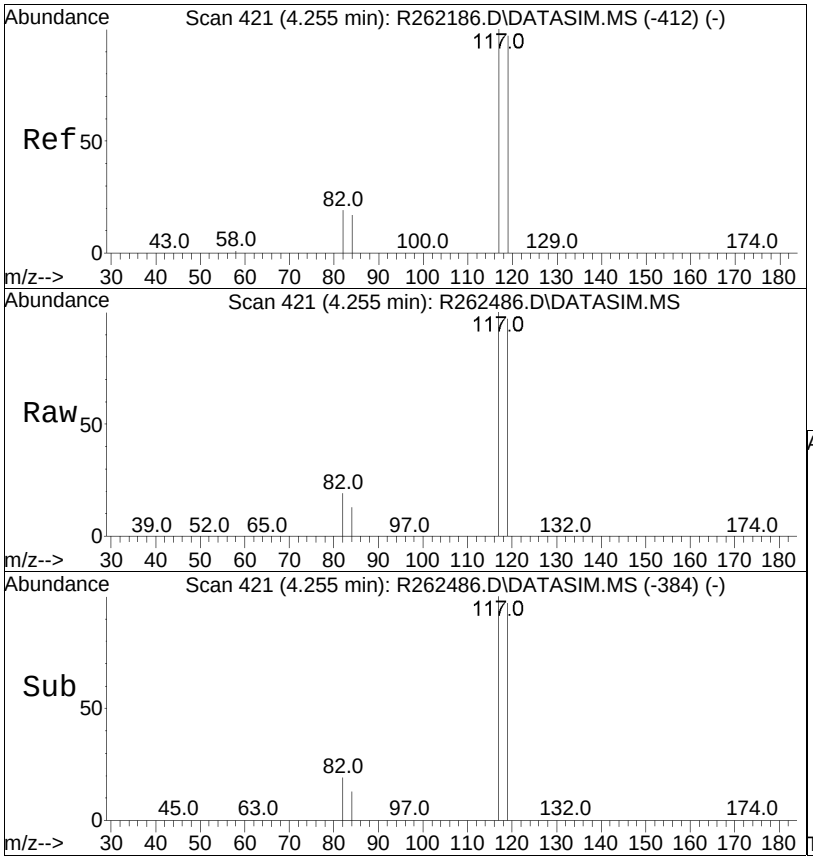


#36
1,1,1-trichloroethane
Concen: 5.21 ppbV
RT: 3.985 min Scan# 391
Delta R.T. -0.000 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion: 97 Resp: 193402

Ion	Ratio	Lower	Upper
97	100		
61	40.6	33.0	49.6
119	12.7	9.9	14.9

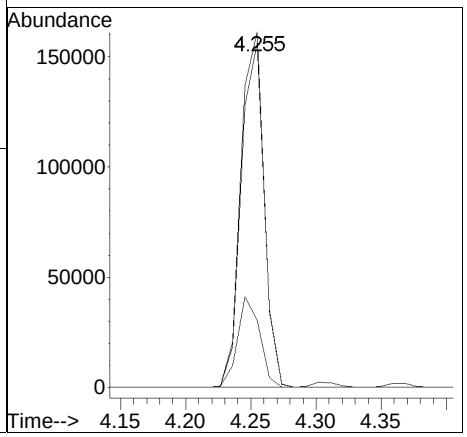


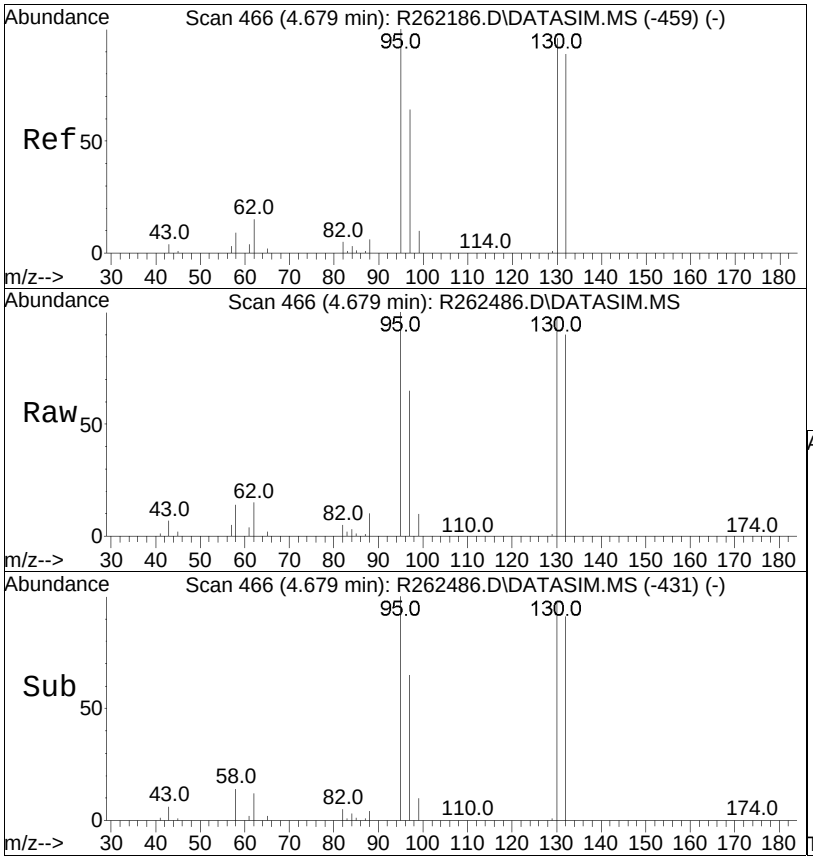


#38
carbon tetrachloride
Concen: 5.32 ppbV
RT: 4.255 min Scan# 421
Delta R.T. -0.000 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion:117 Resp: 200728

Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.9	115.3
82	25.7	26.0	39.0#

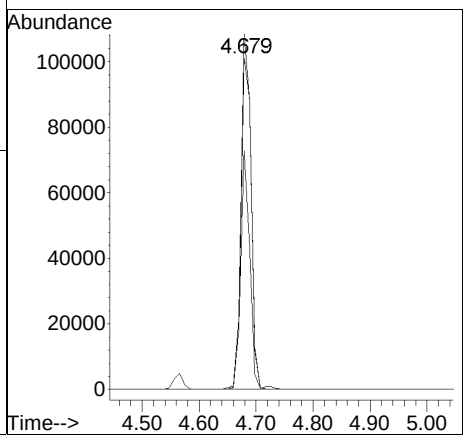


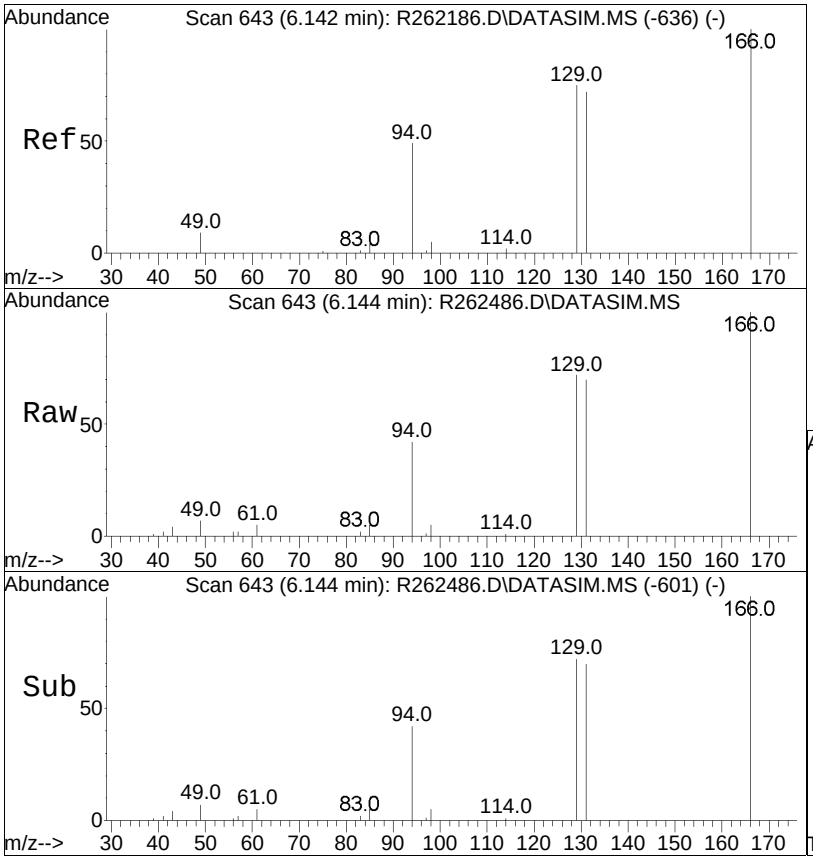


#44
trichloroethene
Concen: 5.28 ppbV
RT: 4.679 min Scan# 466
Delta R.T. -0.000 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion:130 Resp: 131543

Ion	Ratio	Lower	Upper
130	100		
132	95.6	76.5	114.7
97	61.3	49.4	74.2

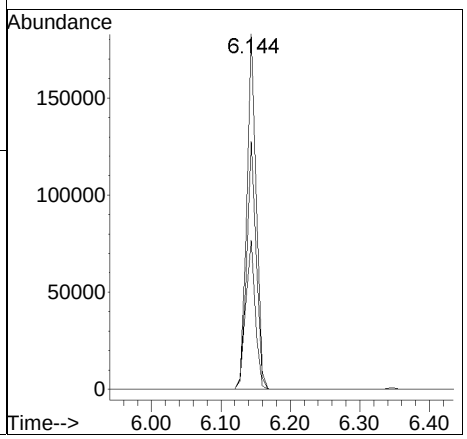




#57
tetrachloroethene
Concen: 5.70 ppbV
RT: 6.144 min Scan# 643
Delta R.T. 0.001 min
Lab File: R262486.D
Acq: 27 Mar 2025 12:57 pm

Tgt Ion:166 Resp: 173846

Ion	Ratio	Lower	Upper
166	100		
131	69.9	57.4	86.0
94	42.6	36.6	55.0



Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262500.D
Acq On : 28 Mar 2025 12:59 am
Operator : AIRLAB26:TPH
Sample : WG2046190-5,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 07:26:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\03\0327SIM\R262486.D
Sub List : 7-NY-SIM+DCDFM - .

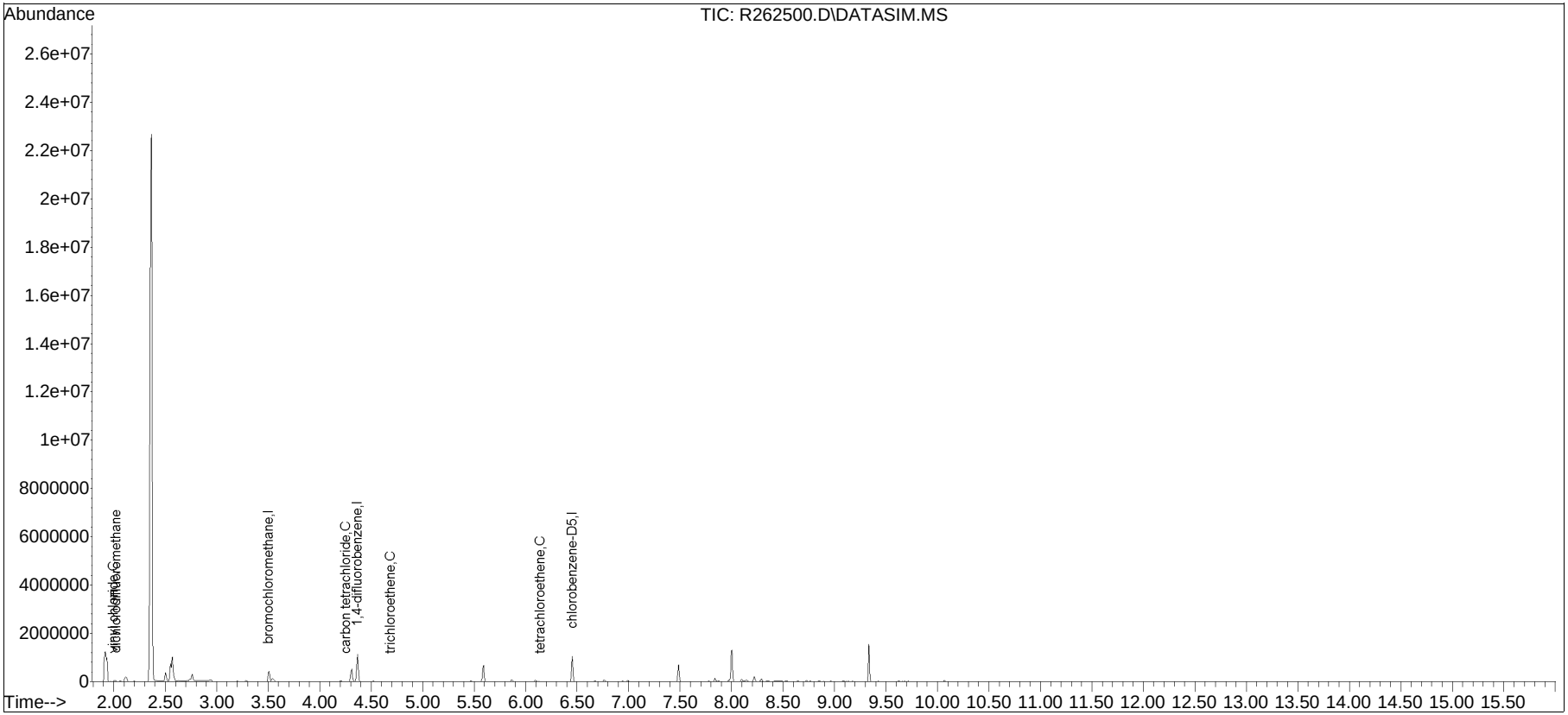
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	209327	10.000	ppbV	0.00
Standard Area = 206550			Recovery = 101.34%			
33) 1,4-difluorobenzene	4.368	114	730712	10.000	ppbV	0.00
Standard Area = 727429			Recovery = 100.45%			
51) chlorobenzene-D5	6.452	54	104495	10.000	ppbV	0.00
Standard Area = 103758			Recovery = 100.71%			
System Monitoring Compounds						
Target Compounds						Qvalue
3) dichlorodifluoromethane	2.021	85	19904	0.514	ppbV	100
6) vinyl chloride	1.999	62	352	0.020	ppbV	92
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	3.443		0	N.D.		
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2722	0.072	ppbV #	23
44) trichloroethene	4.689	130	333	0.013	ppbV #	70
57) tetrachloroethene	6.142	166	1519	0.049	ppbV	92

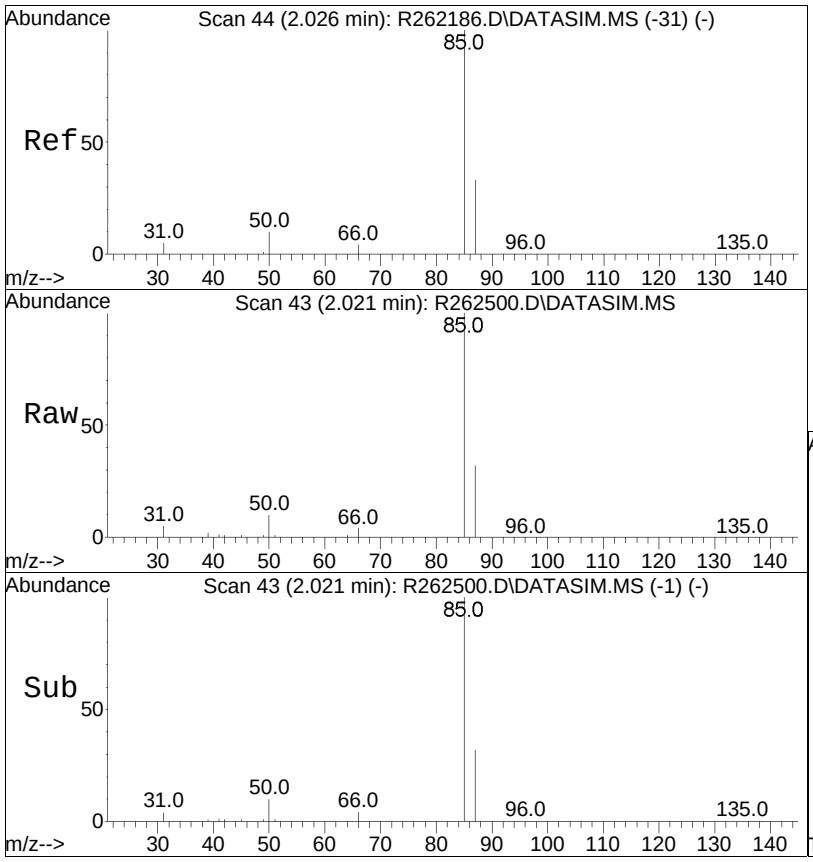
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM+DCDFM - .lab26\2025\03\0327SIM\R262486.D

Data Path : X:\Airlab\Data\Airlab26\2025\03\0327SIM\
Data File : R262500.D
Acq On : 28 Mar 2025 12:59 am
Operator : AIRLAB26:TPH
Sample : WG2046190-5,3,250,250
Misc : WG2046190,ICAL22108
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Mar 28 07:26:25 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\03\0327SIM\TSIM26_250314.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:08 2025
Response via : Initial Calibration

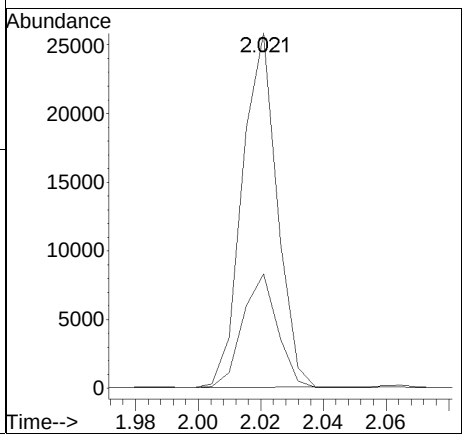


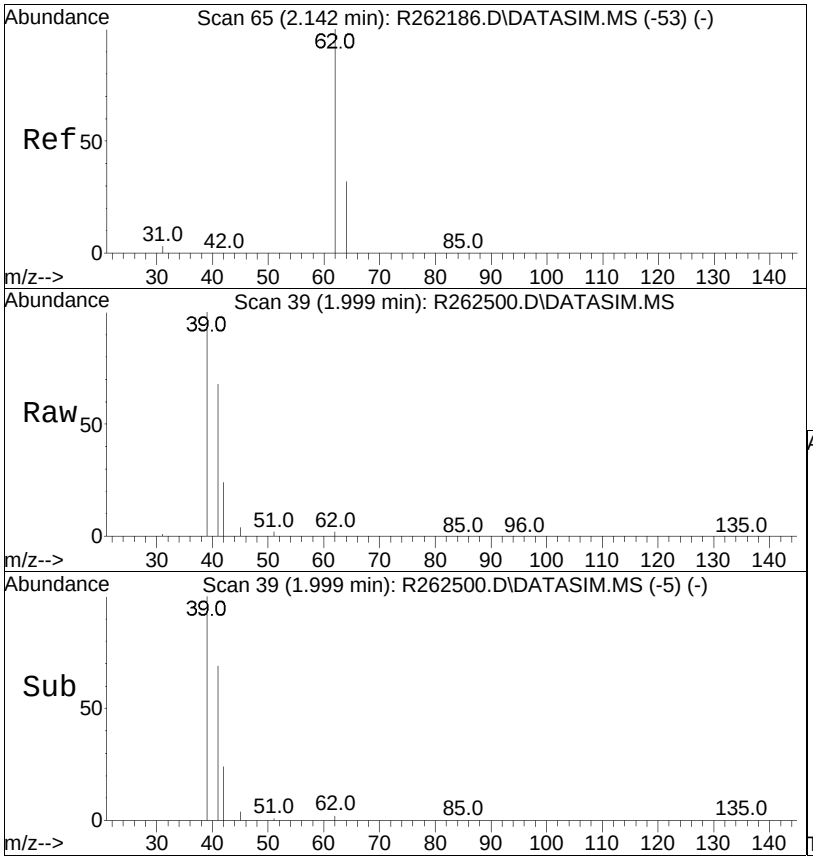


#3
dichlorodifluoromethane
Concen: 0.51 ppbV
RT: 2.021 min Scan# 43
Delta R.T. -0.005 min
Lab File: R262500.D
Acq: 28 Mar 2025 12:59 am

Tgt Ion: 85 Resp: 19904

Ion	Ratio	Lower	Upper
85	100		
87	32.1	25.9	38.9

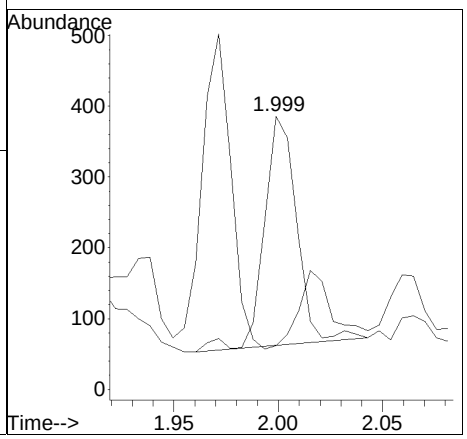


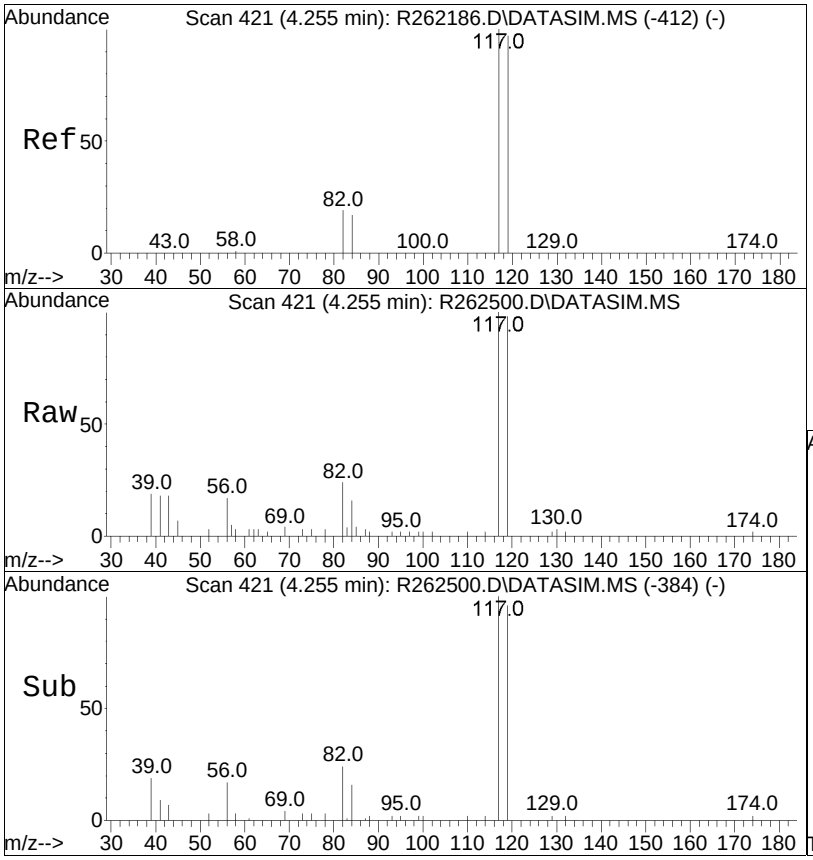


#6
vinyl chloride
Concen: 0.02 ppbV
RT: 1.999 min Scan# 39
Delta R.T. -0.143 min
Lab File: R262500.D
Acq: 28 Mar 2025 12:59 am

Tgt Ion: 62 Resp: 352

Ion	Ratio	Lower	Upper
62	100		
64	27.3	25.3	37.9

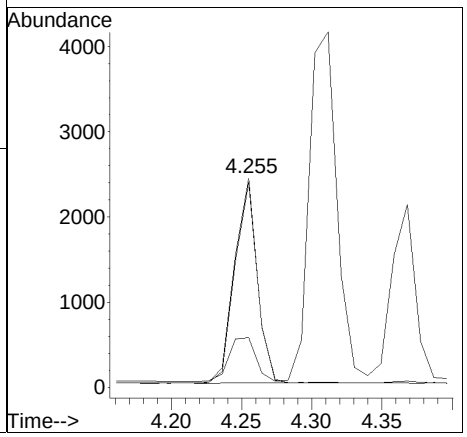


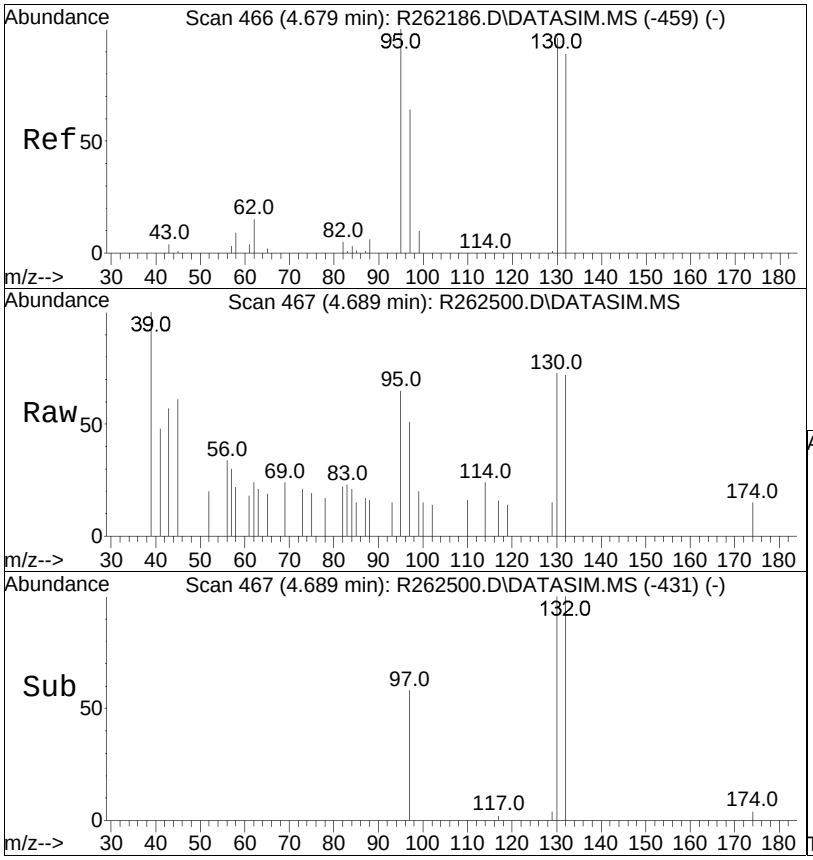


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R262500.D
Acq: 28 Mar 2025 12:59 am

Tgt Ion:117 Resp: 2722

Ion	Ratio	Lower	Upper
117	100		
119	97.1	76.9	115.3
82	201.3	26.0	39.0#

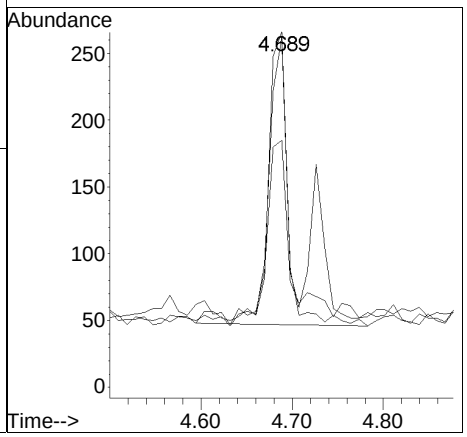


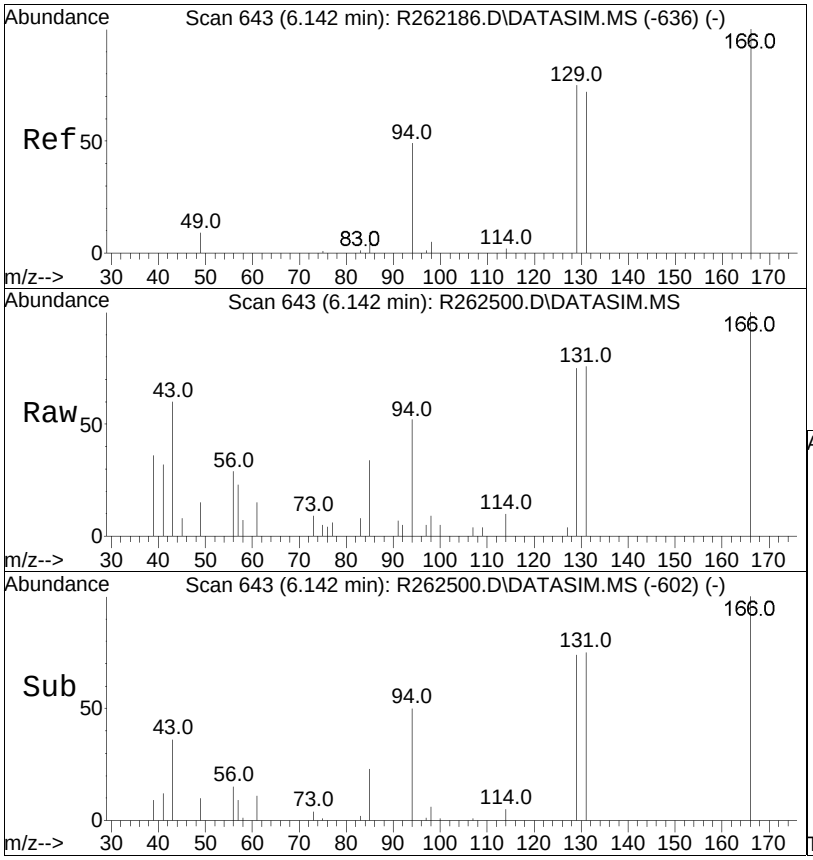


#44
trichloroethene
Concen: 0.01 ppbV
RT: 4.689 min Scan# 467
Delta R.T. 0.009 min
Lab File: R262500.D
Acq: 28 Mar 2025 12:59 am

Tgt Ion:130 Resp: 333

Ion	Ratio	Lower	Upper
130	100		
132	131.2	76.5	114.7#
97	76.6	49.4	74.2#

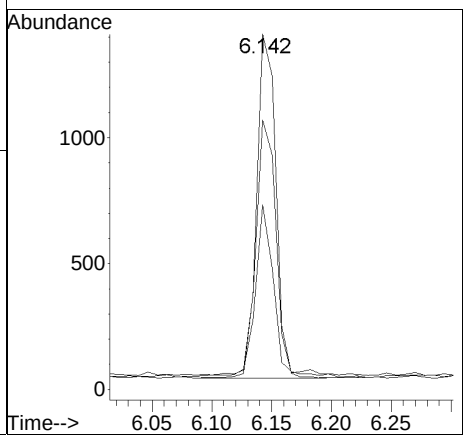




#57
tetrachloroethene
Concen: 0.05 ppbV
RT: 6.142 min Scan# 643
Delta R.T. 0.000 min
Lab File: R262500.D
Acq: 28 Mar 2025 12:59 am

Tgt Ion:166 Resp: 1519

Ion	Ratio	Lower	Upper
166	100		
131	82.0	57.4	86.0
94	46.1	36.6	55.0



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TSIM26_250314.M
Data File	: R262500.D	Operator	: AIRLAB26:TPH
Date Inj'd	: 3/28/2025 12:59 am	Instrument	: Airlab26
Sample	: WG2046190-5,3,250,250	Quant Date	: 3/28/2025 7:26 am

There are no manual integrations or false positives in this file.

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.

Result, ppbv = C_s x 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
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * 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).

$V_{ci} = 2.7 * Pl/14.696$

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)

PACE ANALYTICAL SERVICES

PACE WORK GROUP REPORT (wk02)

Mar 28 2025, 05:21 pm

Work Group: WG2046190 for Department: 3 GC/MS

Created: 27-MAR-25 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2512092-01	IA001	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-02	IA002	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-03	IA003	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-04	IA004	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-05	IA005	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2512092-06	OA001	S	TO15-SIM	AIR	DONE	U	0403	0318	S0	Can-6
L2513426-04	VI-IA-1	S	TO15-SIM	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-05	VI-IA-2	S	TO15-SIM	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-06	VI-IA-3	S	TO15-SIM	AIR	DONE	U	0405	0321	S0	Can-2.7
L2513426-07	VI-OA-1	S	TO15-SIM	AIR	DONE	U	0405	0321	S0	Can-2.7
L2514968-01	AA-01_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-02	IA-01_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-03	IA-02_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-04	IA-03_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-05	IA-04_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514968-06	IA-05_20250314	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-01	IA01_031425	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-02	IA02_031425	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-03	IA03_031425	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
L2514977-04	IA04_031425	S	TO15-SIM	AIR	DONE	U	0413	0321	S0	Can-6
WG2046190-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG2046190-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG2046190-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG2046190-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG2046190-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG2046190-5 L2514977-03

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 03/14/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 250314.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA26031401	TO15_SFS.M	R262179.D	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.M	R262180.D	50mL SS24-044D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.M	R262181.D	125mL SS24-044D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.M	R262182.D	250mL SS24-044D	SIM ONLY	DEF	NA
6	ITO15-LLSTD0.2	TO15_SFS.M	R262183.D	50mL SS24-044C		DEF	NA
6	ITO15-LLSTD0.5	TO15_SFS.M	R262184.D	125mL SS24-044C		DEF	NA
6	ITO15-LLSTD1.0	TO15_SFS.M	R262185.D	250mL SS24-044C		DEF	NA
7	ITO15-LLSTD5.0	TO15_SFS.M	R262186.D	125mL SS24-044B		DEF	NA
7	ITO15-LLSTD10	TO15_SFS.M	R262187.D	250mL SS24-044B		DEF	NA
8	ITO15-LLSTD20	TO15_SFS.M	R262188.D	50mL SS24-044A		DEF	NA
8	ITO15-LLSTD50	TO15_SFS.M	R262189.D	125mL SS24-044A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.M	R262190.D	250mL SS24-044A	LL ONLY	DEF	NA
1	BA23031401	TO15_SFS.M	R262191.D	250mL			NA
1	BA23031402	TO15_SFS.M	R262192.D	250mL			NA
2	CTO15-LLSTD10	TO15_SFS.M	R262193.D	250mL SS24-042G	LL ICV	DO NOT USE	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262194.D	125mL SS24-042G	SIM ICV	DO NOT USE	NA
1	BA23031401	TO15_SFS.M	R262195.D	250mL	use as second tune		NA
2	CTO15-LLSTD10	TO15_SFS.M	R262196.D	250mL SS24-001A	LL ICV	DEF-ICV	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262197.D	125mL SS24-001A	SIM ICV	DEF-ICV	NA

Alpha Analytical Air Lab
Instrument Run Log

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 (ml) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 03/27/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 250327.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ sublist	Leak Check Pass ? Y/N
1	TA26032601	TO15_SFS.M	R262483.D	250 mL	TUNE		NA
1	CA26032601	TO15_SFS.M	R262484.D	250ML	CC		NA
2	CTO15-LLSTD010	TO15_SFS.M	R262485.D	SS25-005A 250 mL	LL LCS	DCDFM HITS VIA SIM/// NARRATE 4ET HITS/// RISKING BF & BC	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262486.D	SS24-005A 125 mL	SIM LCS		NA
1	BA26032601	TO15_SFS.M	R262487.D	250ML	LL BLANK		NA
1	BA26032602	TO15_SFS.M	R262488.D	250ML	SIM BLANK		NA
1	L2512092-06,3,250,250	TO15_SFS.M	R262489.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2513426-07,3,250,250	TO15_SFS.M	R262490.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
3	L2514968-01,3,250,250	TO15_SFS.M	R262491.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
4	L2514968-02,3,250,250	TO15_SFS.M	R262492.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
5	L2514968-03,3,250,250	TO15_SFS.M	R262493.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
6	L2514968-04,3,250,250	TO15_SFS.M	R262494.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
7	L2514968-05D,3,122.5,250	TO15_SFS.M	R262495.D	WG2046188,ICAL22092	111092/ DCDFM HIT	NY+NAPH-7SIM	Y
8	L2514968-06,3,250,250	TO15_SFS.M	R262496.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01,3,250,250	TO15_SFS.M	R262497.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
10	L2514977-02,3,250,250	TO15_SFS.M	R262498.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03,3,250,250	TO15_SFS.M	R262499.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
11	L2514977-03DUP,3,250,250	TO15_SFS.M	R262500.D	WG2046188,ICAL22092	LL/SIM DUP	NY+NAPH-7SIM	Y
12	L2514977-04,3,250,250	TO15_SFS.M	R262501.D	WG2046188,ICAL22092	ETOH OVERCAL/ DCDFM HIT	NY+NAPH-7SIM	Y
13	L2513426-04,3,250,250	TO15_SFS.M	R262502.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
14	L2513426-05,3,250,250	TO15_SFS.M	R262503.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
15	L2513426-06,3,250,250	TO15_SFS.M	R262504.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y

Alpha Analytical Air Lab
Instrument Run Log

16	L2512092-01,3,250,250	TO15_SFS.M	R262505.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
1	L2512092-02,3,250,250	TO15_SFS.M	R262506.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
2	L2512092-03,3,250,250	TO15_SFS.M	R262507.D	WG2046188,ICAL22092	IPA OVERCAL DCDFM HIT	NY+NAPH-7SIM	Y
3	L2512092-04,3,250,250	TO15_SFS.M	R262508.D	WG2046188,ICAL22092	DCDFM AND 4ETHTOL HIT	NY+NAPH-7SIM	Y
4	L2512092-05,3,250,250	TO15_SFS.M	R262509.D	WG2046188,ICAL22092	DCDFM HIT	NY+NAPH-7SIM	Y
9	L2514977-01D,3,15,250	TO15_SFS.M	R262510.D	WG2046188,ICAL22092		ETOH	Y
10	L2514977-02D,3,15,250	TO15_SFS.M	R262511.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03D,3,15,250	TO15_SFS.M	R262512.D	WG2046188,ICAL22092		ETOH	Y
11	L2514977-03DUPD,3,15,250	TO15_SFS.M	R262513.D	WG2046188,ICAL22092	LL DUP	ETOH	Y
12	L2514977-04D,3,15,250	TO15_SFS.M	R262514.D	WG2046188,ICAL22092		ETOH	Y
2	L2512092-03D,3,50,250	TO15_SFS.M	R262515.D	WG2046188,ICAL22092		IPA	Y

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 (mL) }

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

ATTACHMENT 2
Safety Data Sheets

SAFETY DATA SHEET

1. Identification

Product identifier **SHEETROCK® Brand All Purpose Joint Compound, Ready-Mixed**

Other means of identification

SDS number 61000010001

Synonyms Joint Compound (Ready-Mixed) , Taping Compound, Mud, Finishing Compound

Recommended use Interior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer/Importer/Supplier/Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street
Chicago, Illinois 60661-3637

Telephone 1-800-874-4968

Website www.usg.com

Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves.

Response Get medical attention/advice if you feel unwell. Take off contaminated clothing and wash it before reuse.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC) None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Limestone	1317-65-3	> 65
Attapulgite	12174-11-7	< 5
Mica	12001-26-2	< 5
Perlite	93763-70-3	< 5
Quartz (sand)	14808-60-7	< 5
Kaolin	1332-58-7	< 2

Composition comments	All concentrations are in percent by weight. Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.7%. Testing of this product and its constituents suggests that under normal conditions the expected use of this product will not result in exposure to respirable crystalline silica that exceeds the OSHA PEL. However, actual exposures to respirable crystalline silica on a given jobsite must be determined by workplace hygiene testing.

4. First-aid measures

Inhalation	Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.
Skin contact	Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.
Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing. May cause allergic skin disorders in sensitive individuals.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	Not a fire hazard.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	Large Spills: Scoop spilled materials and recover as much of the product as possible for use. If spillage is unrecoverable dispose according to local, state, and federal regulations. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling	Avoid inhalation of dust and contact with skin and eyes. Minimize dust generation and accumulation. In case of insufficient ventilation, wear suitable respiratory equipment. Observe good industrial hygiene practices. Use proper lifting techniques.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Keep containers closed when not in use.

Filled 4.5 gallon pails of joint compound may be stacked a maximum of 3 layers high on a standard 48 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high.

Filled cartons of joint compound may be stacked a maximum of 3 layers high on a standard 42 x 42 or 42 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	20 mppcf	
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	2 mg/m3	Respirable fraction.
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Kaolin (CAS 1332-58-7)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable.
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values

No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls

Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear approved safety goggles.
Skin protection	
Hand protection	It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.
Skin protection	
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.
Thermal hazards	None.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance	
Physical state	Semi-solid.
Form	Paste.
Color	Off-white.
Odor	Low to no odor.
Odor threshold	Not applicable.
pH	7.5 - 9.9
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	1.4 - 1.8 (H2O=1)
Solubility(ies)	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Bulk density	12 - 15 lb/gal
VOC	2 g/l (Calculated by EPA Method 24)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Above 1472°F (800°C) limestone ($CaCO_3$) can decompose to lime (CaO) and release carbon dioxide (CO_2).

11. Toxicological information

Information on likely routes of exposure

Inhalation	Airborne dust may irritate throat and upper respiratory system causing coughing.
Skin contact	May cause allergic skin reactions especially in individuals with pre-existing skin disease such as eczema. (See Section 16).
Eye contact	Airborne dust may cause mechanical eye irritation.
Ingestion	May cause discomfort if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.

Information on toxicological effects

Acute toxicity Not expected to be a hazard under normal conditions of intended use.

Components	Species	Test Results
Kaolin (CAS 1332-58-7)		
Acute		
Dermal		
LD50	Rat	> 5000 mg/kg
Inhalation		
LC50	Rat	> 2 mg/l, 4 Hours
Oral		
LD50	Rat	> 5000 mg/kg

Skin corrosion/irritation	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals after repeated contact. For detailed information, see section 16.
Germ cell mutagenicity	Data does not suggest that this product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not expected to increase the risk of cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Attapulgite (CAS 12174-11-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.

NTP Report on Carcinogens

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Reproductive toxicity	Not expected to be a reproductive hazard.
Specific target organ toxicity - single exposure	No data available, but none expected.

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged exposure may cause chronic effects. For detailed information, see section 16.

12. Ecological information

Ecotoxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test Results
Kaolin (CAS 1332-58-7)			
Aquatic			
Acute			
Crustacea	LC50	Daphnia magna	> 1.1 g/l, 48 Hours

Persistence and degradability	No data available.
Bioaccumulative potential	Bioaccumulation is not expected.
Mobility in soil	No data available.
Other adverse effects	None expected.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Kaolin (CAS 1332-58-7)
Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Perlite (CAS 93763-70-3)

US. New Jersey Worker and Community Right-to-Know Act

Kaolin (CAS 1332-58-7)
Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Perlite (CAS 93763-70-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Kaolin (CAS 1332-58-7)
Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Perlite (CAS 93763-70-3)

US. Rhode Island RTK

Kaolin (CAS 1332-58-7)
Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)

California Proposition 65

WARNING: This product can expose you to chemicals including Attapulgite, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Proposition 65 - CRT: Listed date/Carcinogenic substance

Attapulgite (CAS 12174-11-7) Listed: December 28, 1999

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Attapulgite (CAS 12174-11-7)

16. Other information, including date of preparation or last revision

Issue date	07-August-2014
Revision date	10-March-2023
Version #	03

Further information

Crystalline silica: Raw materials in this product may contain respirable crystalline silica as an impurity. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

Attapulgite: Carcinogenic to experimental animals via a route of exposure not relevant to human exposure per ACGIH.

Skin Sensitization Potential: This product contains an amount of Triazinetriethanol (THT) (CAS No. 4719-04-4) that is within the approved EPA regulated limits. THT can act as a sensitizer. Numerous human studies with concentrations up to 1% yielded negative (no sensitization) results. However, some results showed positive reactions in concentrations <0.5% mostly in persons with eczema.

Bucket NFPA Classification:
Health: 0
Flammability: 1
Physical hazard: 0

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA ratings

List of abbreviations

NFPA: National Fire Protection Association.

References

Registry of Toxic Effects of Chemical Substances (RTECS)
HSDB® - Hazardous Substances Data Bank
Torben et al. (2001). Environmental and Health Assessment of Substances in Household Detergents and Cosmetic Products.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

SAFETY DATA SHEET

1. Identification

Product identifier **SHEETROCK® Brand PLUS 3® Lightweight All Purpose Joint Compound, Ready-Mixed**

Other means of identification

SDS number 61000010011

Synonyms Joint Compound (Ready-Mixed) , Taping Compound, Mud, Finishing Compound

Recommended use Interior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer / Importer / Supplier / Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street
Chicago, Illinois 60661-3637

Telephone 1-800-874-4968

Website www.usg.com

Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Limestone	1317-65-3	< 50
Perlite	93763-70-3	< 10
Attapulgite	12174-11-7	< 5

Composition comments All concentrations are in percent by weight unless ingredient is a gas.

Industrial hygiene studies by USG Corporation and governmental agencies did not detect airborne respirable crystalline silica during activities associated with the normal use of this product. However, job site air monitoring should be conducted to determine actual exposure when permissible exposure limits may be exceeded.

4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing. May cause allergic skin disorders in sensitive individuals.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	Not a fire hazard.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	Large Spills: Scoop spilled materials and recover as much of the product as possible for use. If spillage is unrecoverable dispose according to local, state, and federal regulations. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling	Avoid inhalation of dust and contact with skin and eyes. Minimize dust generation and accumulation. In case of insufficient ventilation, wear suitable respiratory equipment. Observe good industrial hygiene practices. Use proper lifting techniques.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Keep containers closed when not in use. Filled 4.5 gallon pails of joint compound may be stacked a maximum of 3 layers high on a standard 48 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high. Filled cartons of joint compound may be stacked a maximum of 3 layers high on a standard 42 x 42 or 42 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US NIOSH Pocket Guide to Chemical Hazards: Recommended exposure limit (REL)

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Perlite (CAS 93763-70-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total

Biological limit values	No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls	Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection	Wear approved safety goggles.
Skin protection	
Hand protection	It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.
Other	Normal work clothing (long sleeved shirts and long pants) is recommended.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.
Thermal hazards	None.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state	Semi-solid.
Form	Paste.
Color	Off-white.
Odor	Low to no odor.
Odor threshold	Not applicable.
pH	7.5 - 9.9
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	212 °F (100 °C)
Flash point	Not applicable.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)	Not applicable.
Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	1 - 1.3 (H2O=1)
Solubility(ies)	Soluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.

Other information

Bulk density	8.3 - 11 lb/gal
VOC (Weight %)	0.1 - 1.6 g/l (Calculated by EPA Method 24)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Above 1472°F (800°C) limestone ($CaCO_3$) can decompose to lime (CaO) and release carbon dioxide (CO_2).

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Airborne dust may irritate throat and upper respiratory system causing coughing.
Skin contact	May cause allergic skin reactions especially in individuals with pre-existing skin disease such as eczema. (See Section 16).
Eye contact	Airborne dust may cause mechanical eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.

Information on toxicological effects

Acute toxicity	Not expected to be a hazard under normal conditions of intended use.
Skin corrosion/irritation	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.
Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals after repeated contact. For detailed information, see section 16.
Germ cell mutagenicity	Data does not suggest that this product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not expected to increase the risk of cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Attapulgite (CAS 12174-11-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not expected to be a reproductive hazard.
Specific target organ toxicity - single exposure	No data available, but none expected.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged exposure may cause chronic effects. For detailed information, see section 16.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	Bioaccumulation is not expected.
Mobility in soil	No data available.
Other adverse effects	None expected.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as a hazardous material by DOT.

IATA

Not regulated as a dangerous good.

IMDG

Not regulated as a dangerous good.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance No

SARA 311/312 Hazardous chemical No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA) Not regulated.

Food and Drug Administration (FDA) Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Limestone (CAS 1317-65-3)
Perlite (CAS 93763-70-3)

US. New Jersey Worker and Community Right-to-Know Act

Limestone (CAS 1317-65-3)
Perlite (CAS 93763-70-3)

US. Pennsylvania Worker and Community Right-to-Know Law

Limestone (CAS 1317-65-3)
Perlite (CAS 93763-70-3)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Attapulgite (CAS 12174-11-7)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s).
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date 22-January-2014

Revision date -

Version # 01

Further information

Vinyl acetate monomer, formaldehyde and acetaldehyde: Trace amounts of vinyl acetate monomer and formaldehyde may be found in this product.

Attapulgite: Carcinogenic to experimental animals via a route of exposure not relevant to human exposure.

Skin Sensitization Potential: This product contains an amount of Triazinetriethanol (THT) (CAS No. 4719-04-4) that is below the approved EPA regulated limits. THT can act as a sensitizer. Numerous human studies with concentrations up to 1% yielded negative (no sensitization) results. However, some results showed positive reactions in concentrations <0.5% mostly in persons with eczema.

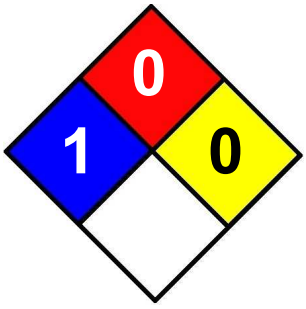
Crystalline silica: Raw materials in this product may contain respirable crystalline silica. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

Bucket NFPA Classification:
Health: 0
Flammability: 1
Physical hazard: 0

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA Ratings



List of abbreviations NFPA: National Fire Protection Association.

References

Registry of Toxic Effects of Chemical Substances (RTECS)
HSDB® - Hazardous Substances Data Bank
Torben et al. (2001). Environmental and Health Assessment of Substances in Household Detergents and Cosmetic Products.

Disclaimer This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

SAFETY DATA SHEET

1. Identification

Product identifier **COVER COAT® Compound, Ready-Mixed**

Other means of identification

SDS number 61000010026

Synonyms Joint Compound (Ready-Mixed) , Taping Compound, Mud, Finishing Compound

Recommended use Interior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer / Importer / Supplier / Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street
Chicago, Illinois 60661-3637

Telephone 1-800-874-4968

Website www.usg.com

Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC) None known.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Limestone	1317-65-3	> 65
Talc	14807-96-6	< 10
Attapulgite	12174-11-7	< 5
Mica	12001-26-2	< 5

Composition comments All concentrations are in percent by weight unless ingredient is a gas.
Raw materials in this product contain respirable crystalline silica as an impurity. The weight percent of respirable crystalline silica found in this product is < 0.7%. The OSHA PEL for respirable crystalline silica has been lowered to 0.05 mg/m3, effective June 23, 2016 with compliance dates of June 23, 2017 for construction and June 23, 2018 for general industry. Testing of this product and its constituents suggests that under normal conditions the expected use of this product will not result in exposure to respirable crystalline silica that exceeds the OSHA PEL. However, actual exposures to respirable crystalline silica on a given jobsite must be determined by workplace hygiene testing.

4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact	Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing. May cause allergic skin disorders in sensitive individuals.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved.

5. Fire-fighting measures

Suitable extinguishing media	Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media	Not applicable.
Specific hazards arising from the chemical	Not a fire hazard.
Special protective equipment and precautions for firefighters	Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire-fighting equipment/instructions	Use standard firefighting procedures and consider the hazards of other involved materials.
Specific methods	Cool material exposed to heat with water spray and remove it if no risk is involved.
General fire hazards	No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	See Section 8 of the SDS for Personal Protective Equipment.
Methods and materials for containment and cleaning up	Large Spills: Scoop spilled materials and recover as much of the product as possible for use. If spillage is unrecoverable dispose according to local, state, and federal regulations. Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Avoid discharge to drains, sewers, and other water systems.

7. Handling and storage

Precautions for safe handling	Avoid inhalation of dust and contact with skin and eyes. Minimize dust generation and accumulation. In case of insufficient ventilation, wear suitable respiratory equipment. Observe good industrial hygiene practices. Use proper lifting techniques.
Conditions for safe storage, including any incompatibilities	Store in a cool, dry, well-ventilated place. Store in a closed container away from incompatible materials. Protect from moisture. Keep away from heat. Do not use if material has spoiled, i.e., there is a moldy appearance or an unpleasant odor. Keep containers closed when not in use. Filled 4.5 gallon pails of joint compound may be stacked a maximum of 3 layers high on a standard 48 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high. Filled cartons of joint compound may be stacked a maximum of 3 layers high on a standard 42 x 42 or 42 x 48 pallet (16 pails per layer, 3 layers high). Pallets may only be stacked a maximum of two high.

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
Mica (CAS 12001-26-2)	TWA	20 mppcf	
Talc (CAS 14807-96-6)	TWA	0.3 mg/m3	Total dust.
		0.1 mg/m3	Respirable.

US. OSHA Table Z-3 (29 CFR 1910.1000)

Components	Type	Value	Form
		20 millions of particle	
		2.4 millions of particle	Respirable.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable fraction.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable fraction.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value	Form
Limestone (CAS 1317-65-3)	TWA	5 mg/m3	Respirable.
		10 mg/m3	Total
Mica (CAS 12001-26-2)	TWA	3 mg/m3	Respirable.
Talc (CAS 14807-96-6)	TWA	2 mg/m3	Respirable.

Biological limit values No biological exposure limits noted for the ingredient(s).

Appropriate engineering controls Provide sufficient ventilation for operations causing dust formation. Observe occupational exposure limits and minimize the risk of exposure.

Individual protection measures, such as personal protective equipment

Eye/face protection Wear approved safety goggles.

Skin protection

Hand protection It is a good industrial hygiene practice to minimize skin contact. For prolonged or repeated skin contact use suitable protective gloves.

Other Normal work clothing (long sleeved shirts and long pants) is recommended.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use a NIOSH/MSHA approved air purifying respirator as needed to control exposure. Consult with respirator manufacturer to determine respirator selection, use, and limitations. Use positive pressure, air-supplied respirator for uncontrolled releases or when air purifying respirator limitations may be exceeded. Follow respirator protection program requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.

Thermal hazards None.

General hygiene considerations Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment separately from regular wash. Observe any medical surveillance requirements.

9. Physical and chemical properties

Appearance

Physical state Semi-solid.

Form Paste.

Color Off-white.

Odor Low to no odor.

Odor threshold Not applicable.

pH 7.5 - 9.9

Melting point/freezing point Not applicable.

Initial boiling point and boiling range 212 °F (100 °C)

Flash point Not applicable.

Evaporation rate Not applicable.

Flammability (solid, gas) Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%) Not applicable.

Flammability limit - upper (%)	Not applicable.
Explosive limit - lower (%)	Not applicable.
Explosive limit - upper (%)	Not applicable.
Vapor pressure	Not applicable.
Vapor density	Not applicable.
Relative density	1.4 - 1.8 (H2O=1)
Solubility(ies)	
Solubility (water)	Soluble in water.
Partition coefficient (n-octanol/water)	Not applicable.
Auto-ignition temperature	Not applicable.
Decomposition temperature	Not applicable.
Viscosity	Not applicable.
Other information	
Bulk density	12 - 15 lb/gal
VOC (Weight %)	2 g/l (Calculated by EPA Method 24)

10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	None known.
Incompatible materials	None known.
Hazardous decomposition products	Above 1472°F (800°C) limestone (CaCO3) can decompose to lime (CaO) and release carbon dioxide (CO2).

11. Toxicological information

Information on likely routes of exposure

Ingestion	May cause discomfort if swallowed.
Inhalation	Airborne dust may irritate throat and upper respiratory system causing coughing.
Skin contact	May cause allergic skin reactions especially in individuals with pre-existing skin disease such as eczema. (See Section 16).
Eye contact	Airborne dust may cause mechanical eye irritation.
Symptoms related to the physical, chemical and toxicological characteristics	Dust may irritate eyes and mucous membranes of the nose, throat and upper respiratory system causing sneezing and/or coughing.

Information on toxicological effects

Acute toxicity	Not expected to be a hazard under normal conditions of intended use.
Skin corrosion/irritation	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Serious eye damage/eye irritation	Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals after repeated contact. For detailed information, see section 16.
Germ cell mutagenicity	Data does not suggest that this product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	This product is not expected to increase the risk of cancer.

IARC Monographs. Overall Evaluation of Carcinogenicity

Attapulgite (CAS 12174-11-7)	2B Possibly carcinogenic to humans. 3 Not classifiable as to carcinogenicity to humans.
Talc (CAS 14807-96-6)	3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity	Not expected to be a reproductive hazard.
Specific target organ toxicity - single exposure	No data available, but none expected.

Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	Prolonged exposure may cause chronic effects. For detailed information, see section 16.

12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data available.
Bioaccumulative potential	Bioaccumulation is not expected.
Mobility in soil	No data available.
Other adverse effects	None expected.

13. Disposal considerations

Disposal instructions	Dispose in accordance with applicable federal, state, and local regulations. Recycle responsibly.
Local disposal regulations	Dispose of in accordance with local regulations.
Hazardous waste code	Not regulated.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Dispose of in accordance with local regulations.

14. Transport information

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable.

15. Regulatory information

US federal regulations

This product is not known to be a “Hazardous Chemical” as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical	No

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act (SDWA)	Not regulated.

US state regulations

US. Massachusetts RTK - Substance List

Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Talc (CAS 14807-96-6)

US. New Jersey Worker and Community Right-to-Know Act

Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Talc (CAS 14807-96-6)

US. Pennsylvania Worker and Community Right-to-Know Law

Limestone (CAS 1317-65-3)
Mica (CAS 12001-26-2)
Talc (CAS 14807-96-6)

US. Rhode Island RTK

Not regulated.

US. California Proposition 65

WARNING: This product contains a chemical known to the State of California to cause cancer.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Attapulgite (CAS 12174-11-7)

International Inventories

All components of this product are in compliance with the listing Requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

16. Other information, including date of preparation or last revision

Issue date	04-February-2014
Revision date	02-March-2017
Version #	03
Further information	

Attapulgite: Carcinogenic to experimental animals via a route of exposure not relevant to human exposure per ACGIH.

Skin Sensitization Potential: This product contains an amount of Triazinetriethanol (THT) (CAS No. 4719-04-4) that is within the approved EPA regulated limits. THT can act as a sensitizer. Numerous human studies with concentrations up to 1% yielded negative (no sensitization) results. However, some results showed positive reactions in concentrations <0.5% mostly in persons with eczema.

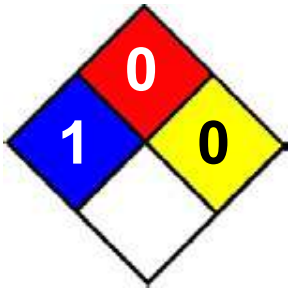
Crystalline silica: Raw materials in this product may contain respirable crystalline silica as an impurity. Exposures to respirable crystalline silica are not expected during the normal use of this product. However, actual levels must be determined by workplace hygiene testing. Prolonged and repeated exposure to airborne free respirable crystalline silica can result in lung disease (i.e., silicosis) and/or lung cancer.

Bucket NFPA Classification:
Health: 0
Flammability: 1
Physical hazard: 0

NFPA Ratings:
Health: 1
Flammability: 0
Physical hazard: 0

Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

NFPA Ratings



List of abbreviations

NFPA: National Fire Protection Association.

References

Registry of Toxic Effects of Chemical Substances (RTECS)
HSDB® - Hazardous Substances Data Bank
Torben et al. (2001). Environmental and Health Assessment of Substances in Household Detergents and Cosmetic Products.

Disclaimer

This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

SAFETY DATA SHEET

1. Identification

Product identifier **Hercules Plumber's Caulk –Silicone White and Clear**

Other means of identification

Product code 7357E

Synonyms Part Numbers: White – 25676, Clear - 25686

Recommended use Caulk and sealant for use around tubs, sinks and other plumbing applications.

Recommended restrictions Do not us on applications where product will be submerged under water.

Manufacturer/Importer/Supplier/Distributor information

Company Name HCC Holdings, Inc. an Oatey Affiliate

Address 4700 West 160th Street
Cleveland, OH 44135

Telephone 216-267-7100

E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015

Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazards Not Classified.

Health hazards Skin Corrosion/Irritation Cat 2

OSHA defined hazards Not Classified.

Label elements

Hazard symbol

Signal word Warning

Hazard statement Causes Skin Irritation

Precautionary statement

Prevention Wear protective gloves. Wash hands thoroughly after handling.

Response IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

Storage Not applicable.

Disposal Not applicable.

Hazard(s) not otherwise classified (HNOC) Generates acetic acid during cure. Uncured product is irritating to eyes, skin, and respiratory system. Generates acetic acid during cure.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Silanetriol, 1-methyl-, 1,1,1-triacetate	4253-34-3	1 - 5
Distillates (petroleum), hydrotreated middle	64742-46-7	10 - 30
Titanium Dioxide (White Sealant Only)	13463-67-7	0 – 5
Dimethyl siloxane, hydroxyl terminated	70131-67-8	70 - 90

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effects, acute and delayed	Skin or eye irritation.
Indication of immediate medical attention and special treatment needed.	Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
General information	Note to physician, treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	water jet
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Special protective equipment and precautions for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire fighting equipment/instructions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Specific methods	None
General fire hazards	None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Methods and materials for containment and cleaning up	Large Spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal. Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a

designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see section 8 of SDS). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Petroleum Distillate	TWA	5 mg/m3

US OSHA Permissible Exposure Limits

Components	Type	Value
Petroleum Distillate	TWA	5 mg/m3

Biological limit values No Biological limits.

Appropriate engineering controls No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards None.

General hygiene considerations Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Paste
Color	White or translucent.
Odor	Acetic acid/vinegar smell
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not determined
Flash point	> 199 °F (> 93.3 °C)
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1.04 – 1.09
Solubility(ies)	
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Other information	
VOC (Weight %)	36 g/L (< 2.8% by weight)

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	The product is stable.
Possibility of hazardous reaction	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Acute Toxicity estimates: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics	Eye – Pain, irritation, watering Inhalation – No specific data. Skin Contact – Irritation, redness Ingestion – No specific data.

Information on likely routes of exposure
Acute Toxicity

Components	Species	Results
Product		
Skin	Rabbit	Moderate Irritant
Eyes	Rabbit	Mild Irritant

Skin corrosion/irritation Moderate Irritant.

Serious eye damage/eye irritation	Mild Irritant.
Respiratory or skin sensitization	
Respiratory sensitization	Not considered a respiratory irritant
Skin sensitization	This product is not expected to cause skin irritation.
Germ cell mutagenicity	No specific data
Carcinogenicity	Sufficient evidence of carcinogenicity in inhalation studies with animals for titanium dioxide exist. However, due to the titanium dioxide being inextricably bound in the silicone matrix, the likelihood of exposure is minimal.
IARC	Titanium Dioxide – 13463-67-7 Group 2B: Possibly carcinogenic to humans.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino- gen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino- gen by OSHA.
Reproductive toxicity	No known significant effects or critical hazards.
Specific target organ toxicity	
Single exposure	Contains Silanetriol, 1-methyl-, 1,1,1-triacetate. This is a Category 3, respiratory irritant.
Repeated exposure	
Aspiration Hazard	Contains Distillates (petroleum), hydrotreated – Which is a category 1 Aspiration Hazard. The likely hood of aspirating the product in this form is very low due to the high viscosity.
Chronic effects	Not Classified.
Further information	

12. Ecological information

Ecotoxicity

Product/ingredient name	Results	Species	Exposure
Petroleum Distillates			
	Acute LC50 2,900 µg/l Fresh water	Fish - Rainbow trout,Donaldson trout	96 h
	Acute LC50 2,200 µg/l Fresh water	Fish - Bluegill	96 h

Persistence and degradability	Not Available.
Bio accumulative potential	Not Available.
Mobility in soil	Not available.
Other adverse effects	No known significant effects of critical hazards.

13. Disposal considerations

Disposal instructions	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Local disposal regulations	Not Applicable
Hazardous waste code	Not Applicable

14. Transportation information

DOT	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard	

classes	
Packing group	
IATA	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
IMDG	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
Environmental hazards	
Marine polluntant	

15. Regulatory information

U.S. Federal regulations

TSCA 12(b) - Chemical export notification: None required.
TSCA 5(a)2 - Final significant new use rules: Not listed
TSCA 5(a)2 - Proposed significant new use rules: Not listed
TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification Immediate (acute) health hazard,

US state regulations

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
.

Canada

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

International regulations

Country(s) or region	Inventory Name	On inventory list (yes/no)*
Canada	DSL/NDSL	Yes*
United States & Puerto Rico	Toxic Substances Control Act (TSCA 8b)	Yes

* At least one component is not listed in the DSL, but all such components are listed in the NDSL.

16. Other information, including date of preparation or last revision

Issue Date	12-May-2015
Revision Date	-
Version #	01
HMIS Rating	Health: 1 Flammability: 1 Physical Hazards: 0
Disclaimer	HCC Holdings Inc. an Oatey Affiliate cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

TECHNICAL DATA SHEET

BACKSTOP® NTX

A high performance, polymer-based, noncementitious water-resistive membrane and air barrier

PRODUCT DESCRIPTION

Backstop® NTX is a flexible, polymer- based, noncementitious, air/water-resistive barrier, which resists water penetration, eliminates air infiltration, and is vapor permeable. It is classified as a Class III vapor retarder over vertical above grade walls. Backstop NTX is available in two versions:

- Backstop NTX – Texture is applied using a trowel, roller, or texture spray equipment.
- Backstop NTX – Smooth is applied by roller, texture spray equipment, or airless spray equipment.

BASIC USES

Backstop NTX – Texture and Smooth are designed for use with Dryvit EIF Systems as well as other building cladding systems. When used with the Dryvit AquaFlash® System, Dryvit Backstop Flash and Fill, or Dymonic® 100. Backstop NTX provides an effective air barrier and water-resistive membrane for acceptable substrates.

FEATURES & BENEFITS

- Cold Weather Application 25 °F (-4 °C)
- Includes a reinforcing fabric at sheathing joints
- Bonds to most construction materials
- Fluid applied
- Fast drying
- Can be exposed for 180 days
- Ensures a continuous film barrier across transitions
- No need for multiple products
- Easy to use
- Not subject to tear off or damage from wind

PROPERTIES

Working Time: Backstop NTX – Texture and Smooth are noncementitious, water-based materials and will not set-up in the pail. Keep pail covered when not in use to minimize skinning.

Drying Time: The drying time is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], Backstop NTX will be dry to the touch within 2 hours and cure in 6 hours.

Testing Information: For test data refer to the chart included with this document.

Application Procedure: For complete application instructions, refer to, DS181.

Job Conditions: Air and surface temperature for application of Backstop NTX must be from 25 °F (-4 °C) minimum to 100 °F (38 °C) maximum and must remain so for a minimum of 12 hours.

Temporary Protection: Shall be provided at all times until membrane is dry and shall not be exposed to weather for longer than 180 days prior to installation of the specified cladding.

Acceptable Substrates:

All sheathing substrate joints must be treated with Dryvit Grid Tape and Backstop NTX - Texture prior to application over the full sheathing surface. Acceptable substrates include:

a. Core treated exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79).
b. Core treated exterior grade gypsum sheathing with fiberglass mat facers meeting ASTM C 1177.
c. Exterior fiber reinforced cement or calcium silicate boards.
d. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
e. APA Exterior Grade Fire Retardant Treated Plywood, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.

f. APA Exposure 1 Rated OSB, nominal 1/2 in (12.7 mm) minimum. Note: NTX – Texture is not recommended for the field of wall application over OSB.
g. Unpainted, unsealed concrete and CMU.

SURFACE PREPARATION

- Sheathing board gaps shall not exceed 1/4 in (6.4 mm) and the surface must be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius. CMU mortar joints shall be struck flush (tooled mortar joints and heavily textured CMU [not split faced] shall be skimmed with Dryvit Genesis®, Genesis® DM or Genesis® DMS) prior to application of the Backstop NTX Texture. CMU shall be clean, unpainted, and free of efflorescence. All substrates shall be dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion.

- Concrete: Shall have cured a minimum of 28 days prior to application of the Backstop NTX. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed, and small voids filled with Dryvit Primus®, Primus®DM, Genesis®, or Genesis®DM mixture (see product data sheets for mixing and application).

- All substrate transitions and gaps between openings and penetration components such as windows, doors, electrical boxes, etc., shall be treated with Backstop NTX – Texture or Dryvit AquaFlash®. Any sealants used shall be tested for compatibility and comply with ASTM C 920.

- All opening terminations, roof/wall intersections, transitions between different materials, chimneys decks, roof, windows, etc., must be properly flashed, wrapped, and sealed as required by the building code, good construction practice and/or Dryvit Backstop NTX Application Instructions, DS181.

MIXING

Material is ready for use after an initial spin-up using a drill with paddle mixer. DO NOT ADD CEMENT.

APPLICATION

Backstop NTX Application: Refer to the usage/application chart for the appropriate use and application technique for a given substrate.

PACKAGING

Backstop NTX – Texture is supplied in 5 gal (19 L) pails.
Backstop NTX – Backstop NTX Smooth is supplied in a 5 gal (19 L) pail or in a 55 gallon (280 L) drum.

COVERAGE

Backstop NTX – Texture and Smooth are supplied in a 5 gal (19 L) pail.
Coverage will vary, depending on application method and substrate. For guidance refer to the usage chart included in this document.

STORAGE

Backstop NTX must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

CAUTIONS & LIMITATIONS

- Apply to acceptable substrates only.
- OSB – Backstop NT – Texture is not recommended for use in the field of OSB.
- CMU - Application over unpainted concrete and
  CMU requires one of the following:
  a. One coat of Backstop NTX- Texture, spray or roller-applied.
  b. One coat of Backstop NTX – Texture, trowel applied.
- Shall not be used below grade or on surfaces that will be subjected to water immersion.
- Shall not be used to treat holes or sheathing joints exceeding 6.4 mm (1/4 in).

- When used beneath Portland cement stucco or adhered stone products, paper backed lath shall be installed over Backstop NTX as a slip sheet.
- Backstop NTX can be exposed to weather up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface of the Backstop NTX for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding. The Backstop NTX surface shall be clean, dry and free of any detrimental conditions that may affect adhesion.

CLEAN UP

Clean tools with water while material is still wet.

TECHNICAL AND FIELD SERVICES

Available on request.

Backstop NTX (BSNTX) – Texture, Smooth, and Spray Usage/Application Chart

PROPERTY/APPLICATION	APPROX. COVERAGE PER PAIL	APPROX. COVERAGE PER DRUM
EXTERIOR GRADE GYPSUM SHEATHING - JOINTS[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel or Spray	800 ft^2 (75 m^2)	
Dymonic 100 – Putty Knife	308' of joint per gallon for a ¼'' x ¼'' (6 mm x 6mm) joint	
Backstop Flash and Fill – Putty Knife	20 oz (.59 l) SSG covers 15-17 ft2 (1.39 – 1.58 m2) at 12-15 wet mils (0.30 – 0.38 mm)	
EXTERIOR GRADE GYPSUM SHEATHING - FACE[e]		
BSNTX Texture – Trowel FoamPRO #58 Roller[b], or Texture Sprayer	250-300 ft^2 (23-28 m^2)	
BSNTX Smooth [c,g] – ½ in (12.7 mm) Nap Roller	800 ft^2 (75 m^2)	
BSNTX Smooth [c,g] – Airless Spray	500-600 ft^2 (46-56 m^2)	5,000 – 6,000 ft^2 (465-557 m^2)
FIBERGLASS FACE EXTERIOR GYPSUM SHEATHING - JOINTS[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
FIBERGLASS FACE EXTERIOR GYPSUM SHEATHING - FACE[e]		
BSNTX Texture – Trowel	250-300 ft^2 (23-28 m^2) [includes joints]	
BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	450-500 ft^2 (42-46 m^2)	
BSNTX Smooth[g] - Airless Sprayer	500-600 ft^2 (46-56 m^2)	5,000 – 6,000 ft^2 (465-557 m^2)
Exposure 1, Exterior Grade, and Fire Retardant Treated Plywood and Exterior Cement Board - Joints		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
Exposure 1, Exterior Grade, and Fire Retardant Treated Plywood and Exterior Cement Board - Face		
BSNTX Texture – Trowel, FoamPRO #58 Roller or Texture Sprayer	250-300 ft^2 (23-28 m^2)	
BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	500-600 ft^2 (46-56 m^2)	
BSNTX Smooth[g] - Airless Sprayer	500-600 ft^2 (46-56 m^2)	
APA Exposure 1 Rated Oriented Strand Board (OSB) - Joints[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
APA Exposure 1 Rated Oriented Strand Board (OSB) - Face[e]		

BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	350-400 ft² (33-37 m²)	
BSNTX Smooth[g] - Airless Spray	350-400 ft² (33-37 m²)	3,500-4,000 ft² (325-372 m²)
Concrete and Masonry [d,g]		
BSNTX Texture - Trowel[f]	200-250 ft² (19-23 m²)[f]	
BSNTX Smooth – FoamPRO #58 Roller or Texture Sprayer	200-250 ft² (19-23 m²)[f]	
BSNTX Smooth[g] - Airless Spray	300-500 ft (28-46m²)	3,000-5,000 ft (279-465 m²)

[a] Tape the joints with Dryvit Grid Tape when using BSNTX Texture and with Aquaflash Mesh when using Backstop NTX Smooth – BSNTX Texture at screw heads.

[b] Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NTX Texture for roller or spray applications only. The FoamPRO #58 roller cover (FoamPRO Mfg., Inc., www.foampromfg.com)is available at home supply stores.

[c] Due to variations in types of concrete/masonry, apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the substrate, particularly at the mortar joints, the job should be parged with Genesis*, 24 hours prior to BSNTX Texture application. Backstop NTX shall NOT be used as a skim coat for parging CMU joints or heavy textured units.

[d] Backstop NTX Texture (with up to 1 pint water addition per 60 lb. pail) or Smooth may be sprayed and backtrowelled/backrolled.

[e] Coverage may vary depending on the texture and porosity of the substrate. Coverage assumes a smooth, dense surface.

[f] Backstop NTX should be applied at the recommended coverage rates to form a continuous film free of voids, pinholes or other discontinuities. The following approximate mil thicknesses are recommended:

Backstop NTX Texture	13 DFT	20* WFT
Backstop NTX Smooth	9 DFT	14*

*Based on volume solids

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E 84	Flame Spread <25 Smoke Developed <450	Passed
Flexibility	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	No cracking at 2 mm diameter
Water Vapor Transmission	ASTM E 96 Procedure B*	Vapor Permeable	Vapor Permeable
Freeze-Thaw Resistance	ASTM E 2485 Method B*	No deleterious effects after 10 cycles[1]	Passed - 10 cycles: No deleterious effects[1]
Water Resistance	ASTM D 2247*	14 days exposure No deleterious effects[1]	No deleterious effects[1] after 14 days exposure
Tensile Strength and Elongation	ASTM D 2370	No ICC or ANSI/EIMA Criteria	Tensile strength:160 psi Elongation: 16.8%
Wind Driven Rain	Fed TT-C-555	No ICC or ANSI/EIMA Criteria	No water penetration
Nail Sealability	ASTM D 1970	No ICC or ANSI/EIMA Criteria	Passed ABAA Criteria
Air Leakage	ASTM E 283	No ICC or ANSI/EIMA Criteria	0.002 cfm/ft² (0.01 l/sec/m²)
Air Permeance	ASTM E 2178	No ICC or ANSI/EIMA Criteria	$1.2x10^{-4}$ cfm/ft² @ 1.6psf (0.0006 l/s/m² @ 75Pa)
Air Barrier Assembly	ASTM E 2357	No ICC or ANSI/EIMA Criteria	<0.001 cfm/ft² @ 6.24 psf (0.05 l/sec m² @300 Pa)
Structural Performance	ASTM E 1233 Procedure A*	Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing	Passed
Racking	ASTM E 72*	No cracking in field; at joints or interface with flashing	Passed
Restrained Environmental	ICC-ES Procedure*	5 cycles; No cracking in field; at joints or interface with flashing.	Passed
Water Penetration	ASTM E 331*	No water penetration beyond the inner-most plane of the wall after 15 minutes at 2.86 psf (137 kPa)	Passed
Tensile Bond	ASTM C 297/E 2134*	ICC and ANSI/EIMA 99-A-2001 Minimum 15 psi (104 kPa)	Substrates: Minimum 19 psi (131 kPa) Flashing: Minimum 431 psi (2970 kPa)
Weathering			
UV Exposure	ASTM D 2898 Method B*	210 hours of exposure	Passed
Accelerated Aging	ICC ES Procedure*	25 cycles of wetting and drying	Passed
Hydrostatic Pressure Test	AATCC 127*	21.6 in (549 mm) water column for 5 hours	Passed
VOC	Regulatory	Meets South Coast Air Quality Management District (SCAQMD) Requirements	Less than 5 g/L
Volume Solids	Calculated	N/A	Smooth: 71% Texture: 75%
Weight/Gal	Calculated	N/A	Smooth: 12 lb/gal Texture: 13 lb/gal

***** ASTM E 2570 Standard Test Method for Evaluating Water-Resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage; also referred to as AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water- Resistive Barriers over Exterior Sheathing 1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification

Information contained in this product sheet conforms to the standard detail recommendations and specifications for the installation of Dryvit Systems, Inc. products as of the date of publication of this document and is presented in good faith. Dryvit Systems, Inc. assumes no liability, expressed or implied, as to the architecture, engineering, or workmanship of any project. To ensure that you are using the latest, most complete information, contact Dryvit Systems, Inc.

One Energy Way
West Warwick, RI 02893
401.822.4100

200 Confederation Parkway, Unit 1
Concord, ON L4K 4T8
800.263.3308

Part of TREMCO Construction Products Group

CEMENT & CONCRETE PRODUCTS™

C4: Portland Cement Based Concrete Products

SAFETY DATA SHEET
(Complies with OSHA 29 CFR 1910.1200)

SECTION I: PRODUCT IDENTIFICATION

The QUIKRETE® Companies
One Securities Centre
3490 Piedmont Road, Suite 1300
Atlanta, GA 30305

Emergency Telephone Number
(770) 216-9580
Information Telephone Number
(770) 216-9580

Revision: Jun-15
SDS C4

QUIKRETE® Product Name	Item #(s)
MORTAR MIX	1102
VIEUX CARRE MORTAR MIX	1102-86
ALL-STAR MORTAR MIX	1122
MASON MIX	1136
ALL-STAR MASON MIX	1136
QUIKRETE® PRO-FINISH BLENDED MASON MIX	1136-58
ALL-STAR VENEER STONE MORTAR	1137
ROOF TILE MORTAR	1140
VENEER STONE MORTAR	1137
POLYMER MODIFIED VENEER STONE MORTAR	1137-85
CSC-4	1191-84
TUCKPOINTING MORTAR – ZIP AND MIX	1251-15
GLASS BLOCK MORTAR	1610
K-1 Mortar	210280
HANDICRETE MORTAR MIX	
NATURAL STONE MORTAR	
RED-E-CRETE MORTAR	

BULK MASONRY MORTARS: MIX 101M, 102 S, 104 N, 112 M, 112 N, 112 S, 122 M, 122 N, 122 S, 132 S, 142, 201 M, 202 PLN, 202 S, 203 PLS, 203 S, 203 N, 204 N, 205 P/L type O, 203 M, 212 M, 212 N, 212 S, 222 M, 222 S, 253 S, 294 N

Product Use: Masonry Mortars for construction with block, brick, veneer stones, etc.

SECTION II - HAZARD IDENTIFICATION

Hazard-determining components of labeling: Silica, Portland cement
2.1 Classification of the substance or mixture
Carcinogen – Category 1A
Skin Corrosion – Category 1B

Skin Sensitization – Category 1B
Specific Target Organ Toxicity Repeat Exposure – Category 1
Specific Target Organ Toxicity: Single Exposure – Category 3

2.2a Signal word DANGER!

2.2b Hazard Statements
May cause cancer through chronic inhalation
Causes severe skin burns and serious eye damage
May cause an allergic skin reaction
Causes damage to lungs through prolonged or repeated inhalation
May cause respiratory irritation

2.2c Pictograms

2.2d Precautionary statements
Do not handle until all safety precautions have been read and understood.
Wear impervious gloves, such as nitrile. Wear eye protection, and protective clothing.
Do not eat, drink or smoke when using this product.
Wash thoroughly after handling.
Use only in a well-ventilated area.
Do not breathe dust.

If swallowed: Rinse mouth. Do NOT induce vomiting.
If inhaled: Remove person to fresh air and keep comfortable for breathing.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If on skin (or hair): Remove immediately all contaminated clothing and wash before re-use. Rinse skin or hair with water.
If significant skin irritation or rash occurs: get medical advice or attention.

Immediately seek medical advice or attention if symptoms are significant or persist.

Store in a well-ventilated place. Keep container tightly closed.
Dispose of contents/containers in accordance with all regulations.

2.3 Additional Information Precautions must be observed because burns occur with little warning -- little heat is sensed.

2.3a HNOC – Hazards not otherwise classified: Not applicable

2.3b Unknown Acute Toxicity: None

2.3C WHMIS Classification

Class D2B – Skin/Eye Irritant
Class D2A – Chronic Toxic Effects – Carcinogen
Class E – Corrosive Material

2.3d Label Elements According To WHMIS

Hazard Symbols

Signal Word

DANGER!

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components	CAS No.	% by Weight
Sand, Silica, Quartz	14808-60-7	40-70*
Portland Cement	65997 15 1	10-30*
Lime	01305-62-0	5-10%
Pulverized Limestone	01317-65-3	5-10%

*The concentrations ranges are provided due to batch-to-batch variability.
None of the constituents of this material are of unknown toxicity.

SECTION IV – FIRST AID MEASURES

4.1 Description of the first-aid measures

General information:

After inhalation: Remove person to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration. In case of unconsciousness, place patient stably in side position for transportation.

After skin contact: Wash skin with cool water and pH-neutral soap or a mild detergent. If significant skin irritation or rash occurs: get medical advice or attention.

After eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

After swallowing: Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed
Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated inhalation. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

4.3 Indication of immediate medical attention and special treatment needed:
Immediately seek medical advice or attention if symptoms are significant or persist.

SECTION V - FIRE FIGHTING MEASURES

5.1 Flammability of the Product: Non-flammable and non-combustible
5.2 Suitable extinguishing agents: Treat for surrounding material
5.3 Special hazards arising from the substance or mixture: None
5.3a Products of Combustion: None
5.3b Explosion Hazards in Presence of Various Substances: Non-explosive in presence of shocks

SECTION VI – ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures: Wear personal protective equipment (See section VIII). Keep unprotected persons away.

6.2 Methods and material for containment and cleaning up:
Do not allow to enter sewers/ surface or ground water. Dispose of unwanted materials and containers properly in accordance with all regulations.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND STORAGE

7.1 Handling

Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. DO NOT BREATHE DUST. In dusty environments, the use of an OSHA, MSHA or NIOSH approved respirator and tight fitting goggles is recommended. Wear appropriate PPE (See section 8). Do not mix with other chemical products, except as indicated by the manufacturer. Do not get in eyes, on skin or clothing. Good housekeeping is important to prevent accumulation of dust.

7.2 Storage

Requirements to be met by storerooms and receptacles: No special requirements.
Information about storage in one common storage facility: Not required.
Further information about storage conditions: Keep out of the reach of children. Keep container tightly closed and prevent exposure to humidity. Do not allow water to contact the product until time of use to preserve product utility.

SECTION VIII – EXPOSURE CONTROL MEASURES / PERSONAL PROTECTION

8.1 Components with limit values that require monitoring at the workplace:

Hazardous Components	CAS No.	PEL (OSHA) mg/M^3	TLV (ACGIH) mg/M^3
Silica Sand, crystalline	14808-60-7	0.1	0.025 (resp)
Portland Cement	65997-15-1	5 (resp) 15 (total)	10 (resp)
Lime	01305-62-0	5	5
Pulverized Limestone	01317-65-3	5 (resp) 15 (total)	10 (resp)

8.2 Exposure Controls

Use ventilation adequate to keep exposures below recommended exposure limits.

8.3 General protective and hygienic measures

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

8.3a Personal protective equipment

Protection of hands:
Wear gloves of adequate length to offer appropriate skin protection from splashes. Nitrile, Butyl and PVC gloves have been found to offer adequate protection for incidental contact. Precautions must be observed because burns occur with little warning -- little heat is sensed.

Eye protection:
Wear approved eye protection (properly fitted dust- or splash-proof chemical safety glasses.

Respiratory protection:

A NIOSH-approved dust mask or filtering face piece is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional, following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

General Information

Appearance	Form: Granular Solid Color: Gray to gray-brown colored Odor: None
pH-value at 20°C (68 °F):	13 (10%)
Boiling point/Boiling range:	Not applicable
Flash point:	Not applicable
Auto igniting:	Product is not self-igniting
Vapor pressure at 21°C (70°F)	Not available
Density at 25°C (77 °F):	2.6 to 3.15

Solubility in / Miscibility with Water:	Insoluble
VOC content:	0 g/L VOC

SECTION X – STABILITY AND REACTIVITY

10.1 Reactivity
No dangerous reaction known under conditions of normal use.
10.2 Chemical stability
Stable under normal storage conditions. Keep in dry storage.
10.3 Possibility of hazardous reaction
No dangerous reaction known under conditions of normal use.
10.4 Thermal decomposition / conditions to be avoided
No decomposition if used according to specifications.
10.5 Incompatible materials
Contact of silica with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide, or oxygen difluoride may cause fires
10.6 Hazardous Decomposition or By-products
Silica will dissolve in Hydrofluoric Acid and produce a corrosive gas – silicon tetrafluoride.

SECTION XI – TOXICOLOGICAL INFORMATION

11.1 Exposure Routes: Skin contact, skin adsorption, eye contact, inhalation, or ingestion.

11.2 Symptoms related to physical/chemical/toxicological characteristics:

Inhalation: May cause respiratory tract irritation. Causes damage to organs through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable silica from this product can cause silicosis.

Skin contact: Causes skin irritation. Handling can cause dry skin, discomfort, irritation, and dermatitis. May cause sensitization by skin contact. Product becomes extremely alkaline when exposed to moisture, and can cause alkali burns and affect the mucous membranes.

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Ingestion: Harmful if swallowed. Ingestion may cause discomfort and/or distress, nausea or vomiting.

11.3 Delayed, immediate and chronic effects of short-term and long-term exposure

Short Term

Skin Corrosion/Irritation: Causes severe skin burns.
Serious Eye Damage/Irritation: Causes severe eye damage.
Respiratory Sensitization: Not available
Skin Sensitization: May cause an allergic skin reaction.
Specific Target Organ Toxicity-Single Exposure: (Category 3) May cause respiratory irritation.
Aspiration Hazard: Not available

Long Term

Carcinogenicity: May cause cancer through chronic inhalation.
Germ Cell Mutagenicity: Not available
Reproductive Toxicity: Not available
Specific Target Organ Toxicity- Repeated Exposure: (Category 1) Causes damage to lungs through prolonged/repeated exposure
Synergistic/Antagonistic Effects: Not available.

SECTION XII – ECOLOGICAL INFORMATION

12.1 Ecotoxicity

May cause long-term adverse effects to the aquatic environment. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Must not reach bodies of water or drainage ditch undiluted or un-neutralized

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulative potential:
No further relevant information available.

12.4 Mobility in soil
No further relevant information available.

12.5 Other Adverse Effects
No further relevant information available.

SECTION XIII – DISPOSAL CONSIDERATIONS

13.1 Waste Disposal Method
The packaging and material may be land filled; however, material should be covered to minimize generation of airborne dust. This product is not classified as a hazardous waste under the authority of the RCRA (40CFR 261) or CERCLA (40CFR 117&302). Disposal must be made in accordance with local, state and federal regulations.

13.2 Other disposal considerations
Uncleaned packaging
Recommendation: Disposal must be made in accordance with local, state and federal regulations.
Recommended cleansing agent: Water, if necessary with cleansing agents.

SECTION XIV – TRANSPORT INFORMATION

	DOT (U.S.)	TDG (Canada)
UN-Number	Not Regulated	Not Regulated
UN proper shipping name	Not Regulated	Not Regulated
Transport Hazard Class(es)	Not Regulated	Not Regulated
Packing Group (if applicable)	Not Regulated	Not Regulated

14.1 Environmental hazards:
Not Available

14.2 Transport in bulk according to Annex II of Marpol 73/78 and the IBC Code
Not available

14.3 Special precautions for user
Do not handle until all safety precautions have been read and understood.

SECTION XV – OTHER REGULATORY INFORMATION

15.1 Safety, Health and Environmental Regulations/Legislations specific for the chemical

Canada
WHMIS Classification: Considered to be a hazardous material under the Hazardous Products Act as defined by the Controlled Products Regulations and subject to the requirements of Health Canada's Workplace Hazardous Material Information (WHMIS). This document complies with the WHMIS requirements of the Hazardous Products Act (HPA) and the CPR.

15.2 US Federal Information

SARA 302/311/312/313 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, 311, 312 or 313.
RCRA: Crystalline silica (quartz) is not classified as a hazardous waste under the Resource Conservation and Recovery Act, or its regulations, 40 CFR §261 et seq.
CERCLA: Crystalline silica (quartz) is not classified as a hazardous substance under regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCLA), 40 CFR §302.
Emergency Planning and Community Right to Know Act (SARA Title III): Crystalline silica (quartz) is not an extremely hazardous substance under Section 302 and is not a toxic chemical subject to the requirements of Section 313.
FDA: Silica is included in the list of substances that may be included in coatings used in food contact surfaces, 21 CFR §175.300(b)(3)(xxvi).
NTP: Respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, is classified as Known to be a Human Carcinogen.
OSHA Carcinogen: Crystalline silica (quartz) is not listed.

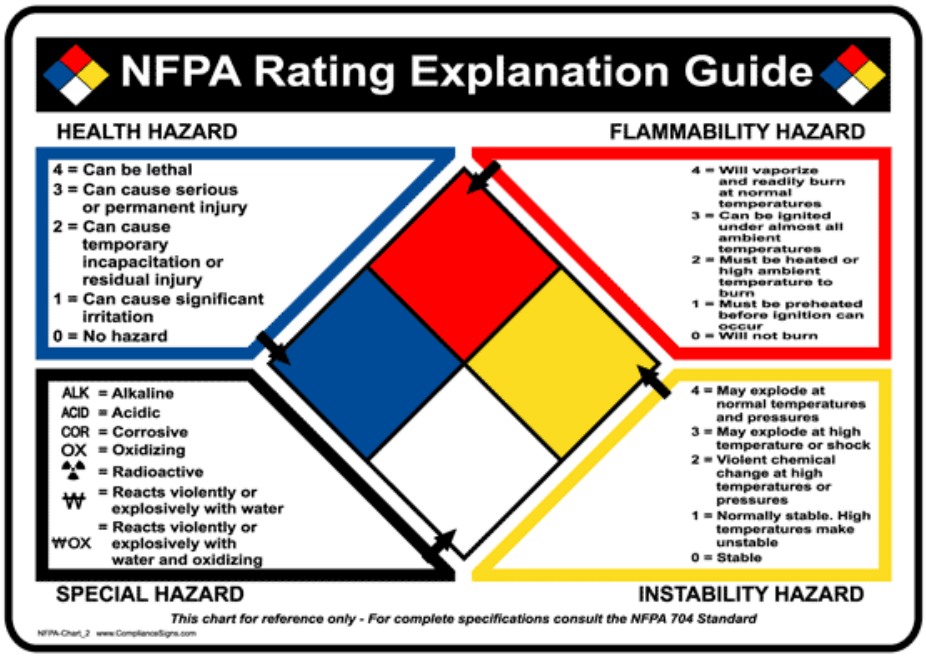
15.3 State Right to Know Laws

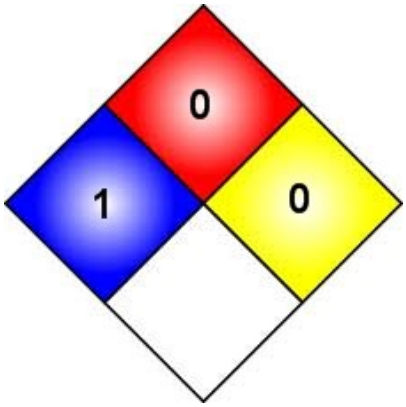
California Prop. 65 Components
WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.
California Inhalation Reference Exposure Level (REL): California established a chronic REL of 3 µg for silica (crystalline, respirable). A chronic REL is an airborne level of a substance at or below which no adverse health effects are anticipated in individuals indefinitely exposed to the substance at that level.
Massachusetts Toxic Use Reduction Act: Silica, crystalline (respirable size, <10 microns) is "toxic" for purposes of the Massachusetts Toxic Use Reduction Act.

15.4 Global Inventories

DSL All components of this product are on the Canadian DSL list.
TSCA No.: Crystalline silica (quartz) appears on the EPA TSCA inventory under the CAS No. 14808-60-7. All constituents are listed in the TSCA inventory.

15.5 NFPA Ratings





SECTION XVI – OTHER INFORMATION

Last Updated: June 11, 2015

NOTE: The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by

The QUIKRETE® Companies
Phone (800) 282-5828
www.QUIKRETE.com

End of SDS

252 Silver

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 08/12/2019 Date of Issue: 06/29/2018 Supersedes Date: 07/22/2019 Version: 2.1

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: 252 Silver

Product Code: 0252-0050-21 (100, 105, 120, 130), 0252-0050-22 (120)

1.2. Intended Use of the Product

Tile Adhesive. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company
LATICRETE International
1 Laticrete Park, N
Bethany, CT 06524
T (203)-393-0010
www.laticrete.com

Company
LATICRETE Canada ULC
PO Box 129, Emeryville, Ontario, Canada
N0R-1A0
(833)-254-9255

1.4. Emergency Telephone Number

Emergency Number : For Chemical Emergency call ChemTel Inc. day or night:
(800)255-3924 (North America)
(800)-099-0731 (Mexico)
+1 (813)248-0585 (International - collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1A	H350
STOT SE 3	H335
STOT RE 1	H372

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :

GHS05 GHS07 GHS08

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H350 - May cause cancer (Inhalation).
H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Precautionary Statements (GHS-US/CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Quartz	(CAS-No.) 14808-60-7	58 - 63	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Cement, portland, chemicals	(CAS-No.) 65997-15-1	29 - 32	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Calcium oxide	(CAS-No.) 1305-78-8	16 - 22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Limestone	(CAS-No.) 1317-65-3	7 - 10	Not classified
Silicic acid (H_4SiO_4), calcium salt (1:2)	(CAS-No.) 10034-77-2	0.9 - 1.6	Eye Irrit. 2A, H319
Calcium sulfate dihydrate	(CAS-No.) 13397-24-5	1.4 - 1.6	Not classified
Acetic acid ethenyl ester, polymer with ethene and ethenol	(CAS-No.) 26221-27-2	< 1.4	Comb. Dust
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4	0.9 - 1.0	Not classified
Kaolin	(CAS-No.) 1332-58-7	< 0.2	Not classified
Lithium carbonate	(CAS-No.) 554-13-2	0.05	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2B, H320 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Chromium, ion (Cr6+)	(CAS-No.) 18540-29-9	0.00003	Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes severe skin burns and eye damage. May cause respiratory irritation. Skin sensitization. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation).

Inhalation: Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; lung lesions can appear within five years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that lung lesions appear earlier and the progression is more rapid.

Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis can be fatal.

Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Concrete dust, in association with sweat and friction, can lead to skin irritation and dermatitis. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers.

Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. May cause cancer by inhalation.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hydrofluoric acid will react with and dissolve glass, and other silica containing material. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Silicon oxides. Carbon oxides (CO, CO_2). Sulfur oxides.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled solid. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

7.3. Specific End Use(s)

Tile Adhesive. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 µg/m³ (Respirable crystalline silica)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)

USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate)
British Columbia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable)
Manitoba	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Nunavut	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline)
Northwest Territories	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline)
Ontario	OEL TWA (mg/m³)	0.1 mg/m³ (designated substances regulation-respirable (Silica, crystalline)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Québec	VEMP (mg/m³)	0.1 mg/m³ (respirable dust)
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline (Trydimite removed))
Yukon	OEL TWA (mg/m³)	300 particle/mL (Silica - Quartz, crystalline)

Cement, portland, chemicals (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
Alberta	OEL TWA (mg/m³)	10 mg/m³
British Columbia	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nunavut	OEL STEL (mg/m³)	20 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³
Ontario	OEL TWA (mg/m³)	1 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable)
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Québec	VEMP (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)

Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Calcium oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³
USA IDLH	US IDLH (mg/m³)	25 mg/m³
Alberta	OEL TWA (mg/m³)	2 mg/m³
British Columbia	OEL TWA (mg/m³)	2 mg/m³
Manitoba	OEL TWA (mg/m³)	2 mg/m³
New Brunswick	OEL TWA (mg/m³)	2 mg/m³
Newfoundland & Labrador	OEL TWA (mg/m³)	2 mg/m³
Nova Scotia	OEL TWA (mg/m³)	2 mg/m³
Nunavut	OEL STEL (mg/m³)	4 mg/m³
Nunavut	OEL TWA (mg/m³)	2 mg/m³
Northwest Territories	OEL STEL (mg/m³)	4 mg/m³
Northwest Territories	OEL TWA (mg/m³)	2 mg/m³
Ontario	OEL TWA (mg/m³)	2 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	2 mg/m³
Québec	VEMP (mg/m³)	2 mg/m³
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³
Yukon	OEL STEL (mg/m³)	4 mg/m³
Yukon	OEL TWA (mg/m³)	2 mg/m³

Limestone (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m³
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL (mg/m³)	20 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³
Québec	VEMP (mg/m³)	10 mg/m³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Magnesium oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen

USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (fume, total particulate)
USA IDLH	US IDLH (mg/m³)	750 mg/m³ (fume)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (fume)
British Columbia	OEL STEL (mg/m³)	10 mg/m³ (respirable dust and fume)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (fume, inhalable) 3 mg/m³ (respirable dust and fume)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Nunavut	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Québec	VEMP (mg/m³)	10 mg/m³ (fume)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Yukon	OEL STEL (mg/m³)	10 mg/m³ (fume)
Yukon	OEL TWA (mg/m³)	10 mg/m³ (fume)

Chromium, ion (Cr6+) (18540-29-9)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 µg/m³

Kaolin (1332-58-7)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	2 mg/m³ (respirable)
British Columbia	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nunavut	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Nunavut	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Northwest Territories	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Northwest Territories	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Ontario	OEL TWA (mg/m³)	2 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable)
Prince Edward Island	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and

		<1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Québec	VEMP (mg/m³)	5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Calcium sulfate dihydrate (13397-24-5)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (Calcium sulphate)
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable (Calcium sulfate)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Québec	VEMP (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Particulates not otherwise classified (PNOC) (Not applicable)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ Respirable fraction 10 mg/m³ Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Respirable fraction 15 mg/m³ Total Dust
Alberta	OEL TWA (mg/m³)	10 mg/m³ (total) 3 mg/m³ (respirable)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (nuisance dust-total dust) 3 mg/m³ (nuisance dust-respirable fraction)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
New Brunswick	OEL TWA (mg/m³)	3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction) 10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)

Nunavut	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable) 3 mg/m³ (respirable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
Québec	VEMP (mg/m³)	10 mg/m³ (including dust, inert or nuisance particulates-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	White to gray powder
Odor	:	None
Odor Threshold	:	Not available
pH	:	Not available
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available

Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C	:	Not available
Relative Density	:	Not available
Specific Gravity	:	1.2 - 1.5
Solubility	:	Insoluble in water.
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hydrofluoric acid will react with and dissolve glass, and other silica containing material. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause violent reaction.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer (Inhalation).

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; lung lesions can appear within five years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that lung lesions appear earlier and the progression is more rapid. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis can be fatal.

Symptoms/Injuries After Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Concrete dust, in association with sweat and friction, can lead to skin irritation and dermatitis. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers.

Symptoms/Injuries After Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. May cause cancer by inhalation.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Calcium oxide (1305-78-8)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2500 mg/kg

Magnesium oxide (MgO) (1309-48-4)	
LD50 Oral Rat	3870 mg/kg

Kaolin (1332-58-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Lithium carbonate (554-13-2)	
LD50 Oral Rat	525 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
LC50 Inhalation Rat	> 2.17 mg/l/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h

Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Chromium, ion (Cr6+) (18540-29-9)	
IARC Group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Calcium oxide (1305-78-8)	
LC50 Fish 1	50.6 mg/l

Chromium, ion (Cr6+) (18540-29-9)	
LC50 Fish 1	36.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	7.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

Lithium carbonate (554-13-2)	
LC50 Fish 1	8.1 mg/l

12.2. Persistence and Degradability

252 Silver	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

252 Silver	
Bioaccumulative Potential	Not established.

Calcium oxide (1305-78-8)	
BCF Fish 1	(no bioaccumulation)

12.4. Mobility in Soil

Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

252 Silver	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Respiratory or skin sensitization Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, portland, chemicals (65997-15-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (1305-78-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium oxide (MgO) (1309-48-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicic acid (H4SiO4), calcium salt (1:2) (10034-77-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Acetic acid ethenyl ester, polymer with ethene and ethenol (26221-27-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Kaolin (1332-58-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Lithium carbonate (554-13-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %

15.2. US State Regulations

California Proposition 65

WARNING: This product can expose you to Chromium, ion (Cr6+), which is known to the State of California to cause cancer

and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Quartz (14808-60-7)	X			
Chromium, ion (Cr6+) (18540-29-9)	X	X		
Lithium carbonate (554-13-2)		X		

Quartz (14808-60-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Cement, portland, chemicals (65997-15-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium oxide (1305-78-8)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Limestone (1317-65-3)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Magnesium oxide (MgO) (1309-48-4)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Chromium, ion (Cr6+) (18540-29-9)
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Kaolin (1332-58-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium sulfate dihydrate (13397-24-5)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Lithium carbonate (554-13-2)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List

15.3. Canadian Regulations

Quartz (14808-60-7)
Listed on the Canadian DSL (Domestic Substances List)

Cement, portland, chemicals (65997-15-1)
Listed on the Canadian DSL (Domestic Substances List)

Calcium oxide (1305-78-8)
Listed on the Canadian DSL (Domestic Substances List)

Limestone (1317-65-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

Magnesium oxide (MgO) (1309-48-4)
Listed on the Canadian DSL (Domestic Substances List)

Silicic acid (H4SiO4), calcium salt (1:2) (10034-77-2)
Listed on the Canadian DSL (Domestic Substances List)

Acetic acid ethenyl ester, polymer with ethene and ethenol (26221-27-2)
Listed on the Canadian DSL (Domestic Substances List)

Kaolin (1332-58-7)
Listed on the Canadian DSL (Domestic Substances List)

Calcium sulfate dihydrate (13397-24-5)
Listed on the Canadian DSL (Domestic Substances List)

Lithium carbonate (554-13-2)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 08/12/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer

H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

ATTACHMENT 3
NYSDOH Air Quality Questionnaire

NEW YORK STATE DEPARTMENT OF HEALTH
INDOOR AIR QUALITY QUESTIONNAIRE AND BUILDING INVENTORY
CENTER FOR ENVIRONMENTAL HEALTH

This form must be completed for each residence involved in indoor air testing.

Preparer's Name Zavier Richards Date/Time Prepared 3/13/2025

Preparer's Affiliation Haley & Aldrich of New York Phone No._____

Purpose of Investigation Pre-Activation of SSDS

1. OCCUPANT:

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

Number of Occupants/persons at this location _____ Age of Occupants _____

2. OWNER OR LANDLORD: (Check if same as occupant ___)

Interviewed: Y / (N)

Last Name: _____ First Name: _____

Address: _____

County: _____

Home Phone: _____ Office Phone: _____

3. BUILDING CHARACTERISTICS

Type of Building: (Circle appropriate response)

(Residential) School (Commercial/Multi-use)
Industrial Church Other: _____

If the property is residential, type? (Circle appropriate response)

Ranch	2-Family	3-Family
Raised Ranch	Split Level	Colonial
Cape Cod	Contemporary	Mobile Home
Duplex	(Apartment House)	Townhouses/Condos
Modular	Log Home	Other:_____

If multiple units, how many? 63

If the property is commercial, type?

Business Type(s) N/A

Does it include residences (i.e., multi-use)? Y / (N) If yes, how many? _____

Other characteristics:

Number of floors 8 Building age 3 Months

Is the building insulated? (Y) / N How air tight? Tight / (Average) / Not Tight

4. AIRFLOW

Use air current tubes or tracer smoke to evaluate airflow patterns and qualitatively describe:

Airflow between floors

_____

_____

_____

Airflow near source

_____

_____

_____

Outdoor air infiltration

_____

_____

_____

Infiltration into air ducts

_____

_____

_____

5. BASEMENT AND CONSTRUCTION CHARACTERISTICS (Circle all that apply)

a. Above grade construction:	wood frame	(concrete)	stone	brick
b. Basement type:	(full)	crawlspace	slab	other _____
c. Basement floor:	(concrete)	dirt	stone	other _____
d. Basement floor:	(uncovered)	covered	covered with _____	
e. Concrete floor:	(unsealed)	sealed	sealed with _____	
f. Foundation walls:	(poured)	block	stone	other _____
g. Foundation walls:	(unsealed)	sealed	sealed with _____	
h. The basement is:	wet	damp	(dry)	moldy
i. The basement is:	finished	(unfinished)	partially finished	
j. Sump present?	(Y) / N			
k. Water in sump?	(Y) / N / not applicable			

Basement/Lowest level depth below grade: 12 (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

N/A

6. HEATING, VENTING and AIR CONDITIONING (Circle all that apply)

Type of heating system(s) used in this building: (circle all that apply – note primary)

Hot air circulation	(Heat pump)	Hot water baseboard	
Space Heaters	Stream radiation	Radiant floor	
Electric baseboard	Wood stove	Outdoor wood boiler	Other _____

The primary type of fuel used is:

(Natural Gas)	Fuel Oil	Kerosene
Electric	Propane	Solar
Wood	Coal	

Domestic hot water tank fueled by: _____

Boiler/furnace located in:	(Basement)	Outdoors	Main Floor	Other_____
Air conditioning:	(Central Air)	Window units	Open Windows	None

Are there air distribution ducts present? Y / (N)

Describe the supply and cold air return ductwork, and its condition where visible, including whether there is a cold air return and the tightness of duct joints. Indicate the locations on the floor plan diagram.

_____

_____

_____

_____

7. OCCUPANCY

Is basement/lowest level occupied? Full-time Occasionally Seldom (Almost Never)

Level	**General Use of Each Floor (e.g., familyroom, bedroom, laundry, workshop, storage)**
Basement	Laundry, Gym workshop, storage, study room, trash, commercial space
1st Floor	Mail room, lobby, commercial space
2nd Floor	Residential Units
3rd Floor	Residential Units
4th Floor	Residential Units

8. FACTORS THAT MAY INFLUENCE INDOOR AIR QUALITY

a. Is there an attached garage? (Y) / N

b. Does the garage have a separate heating unit? Y / (N) / NA

c. Are petroleum-powered machines or vehicles stored in the garage (e.g., lawnmower, atv, car) Y / (N) / NA Please specify_____

d. Has the building ever had a fire? Y / (N) When?_____

e. Is a kerosene or unvented gas space heater present? Y / (N) Where? _____

f. Is there a workshop or hobby/craft area? Y / (N) Where & Type? _____

g. Is there smoking in the building? Y / (N) How frequently? _____

h. Have cleaning products been used recently? Y / (N) When & Type? _____

i. Have cosmetic products been used recently? Y / (N) When & Type? _____

j. Has painting/staining been done in the last 6 months? (Y) / N Where & When? _____

k. Is there new carpet, drapes or other textiles? Y / (N) Where & When? _____

l. Have air fresheners been used recently? Y / (N) When & Type? _____

m. Is there a kitchen exhaust fan? Y / (N) If yes, where vented?_____

n. Is there a bathroom exhaust fan? Y / (N) If yes, where vented?_____

o. Is there a clothes dryer? Y / (N) If yes, is it vented outside? Y / N

p. Has there been a pesticide application? Y / (N) When & Type?_____

Are there odors in the building? Y / (N)
If yes, please describe: _____

Do any of the building occupants use solvents at work? Y / (N)
(e.g., chemical manufacturing or laboratory, auto mechanic or auto body shop, painting, fuel oil delivery, boiler mechanic, pesticide application, cosmetologist

If yes, what types of solvents are used? _____

If yes, are their clothes washed at work? Y / N

Do any of the building occupants regularly use or work at a dry-cleaning service? (Circle appropriate response)

Yes, use dry-cleaning regularly (weekly) (No)
Yes, use dry-cleaning infrequently (monthly or less) Unknown
Yes, work at a dry-cleaning service

Is there a radon mitigation system for the building/structure? (Y) / N Date of Installation: 8/10/2024
Is the system active or passive? Active/(Passive)

9. WATER AND SEWAGE

Water Supply: (Public Water) Drilled Well Driven Well Dug Well Other: _____

Sewage Disposal: (Public Sewer) Septic Tank Leach Field Dry Well Other: _____

10. RELOCATION INFORMATION (for oil spill residential emergency)

a. Provide reasons why relocation is recommended: _____

b. Residents choose to: remain in home relocate to friends/family relocate to hotel/motel

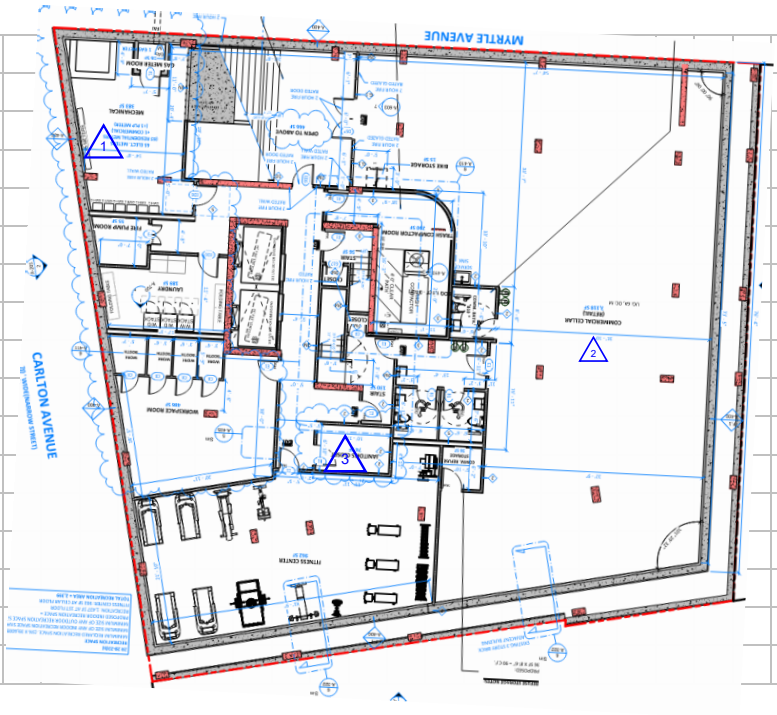
c. Responsibility for costs associated with reimbursement explained? Y / N

d. Relocation package provided and explained to residents? Y / N

11. FLOOR PLANS

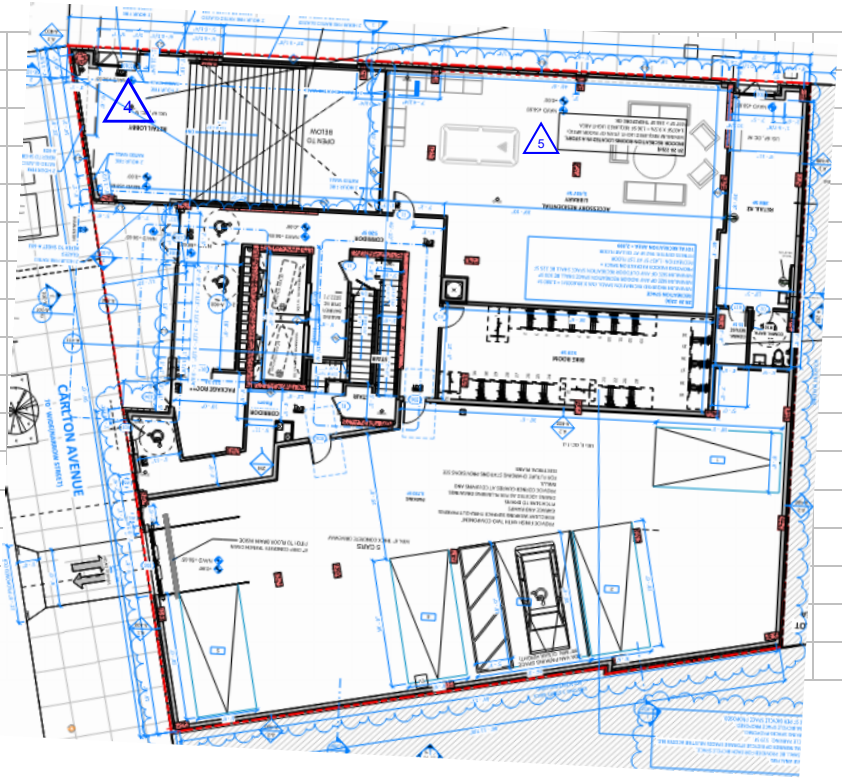
Draw a plan view sketch of the basement and first floor of the building. Indicate air sampling locations, possible indoor air pollution sources and PID meter readings. If the building does not have a basement, please note.

Basement:



1 Indoor Air Sample

First Floor:

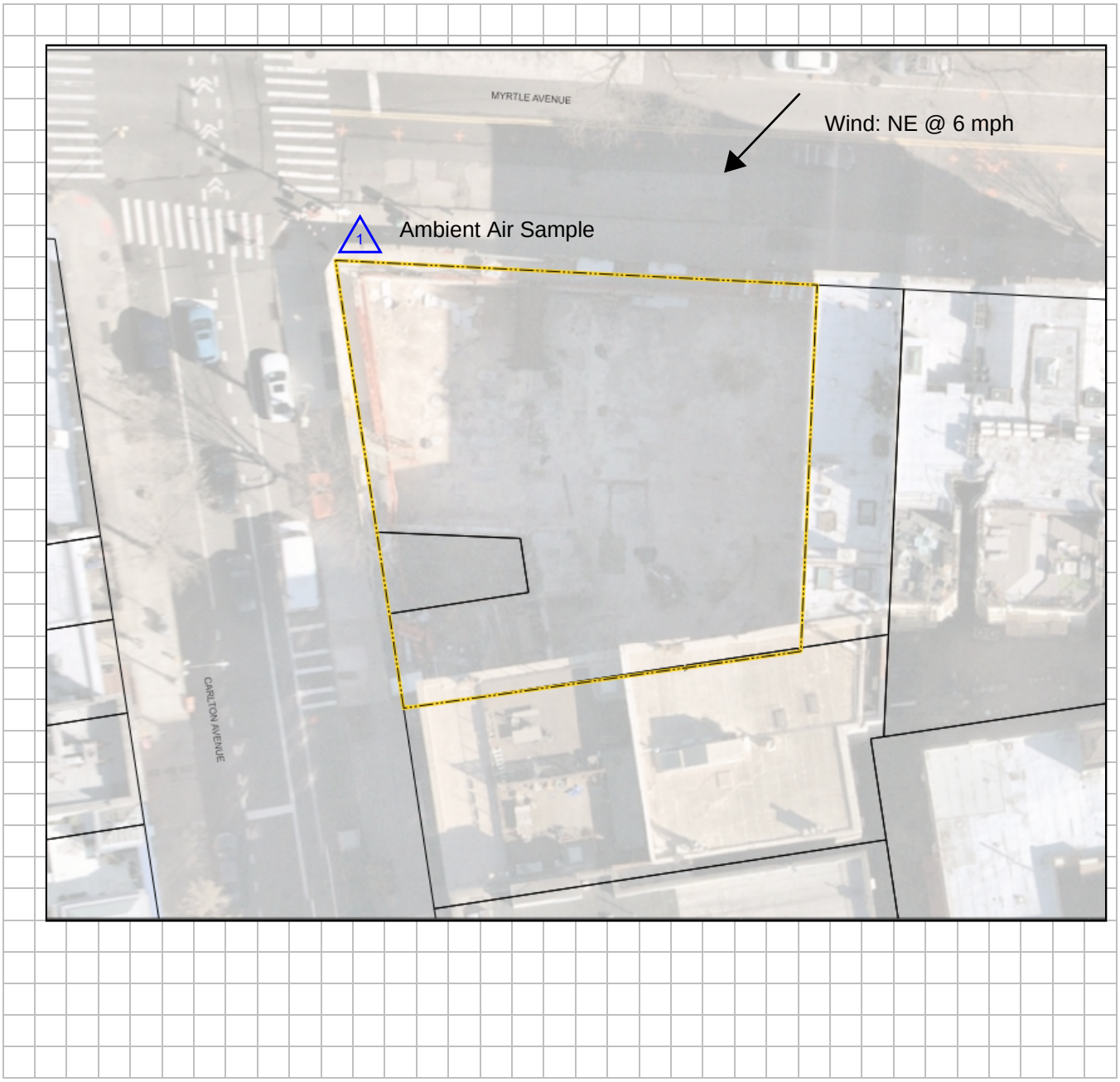


1 Indoor Air Sample

12. OUTDOOR PLOT

Draw a sketch of the area surrounding the building being sampled. If applicable, provide information on spill locations, potential air contamination sources (industries, gas stations, repair shops, landfills, etc.), outdoor air sampling location(s) and PID meter readings.

Also indicate compass direction, wind direction and speed during sampling, the locations of the well and septic system, if applicable, and a qualifying statement to help locate the site on a topographic map.



13. PRODUCT INVENTORY FORM

Make & Model of field instrument used: MiniRae PID 3000

List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N
	Fire Extinguisher	5 lbs	UO	Attached SDS	0.0	Y
	Joint Compound	4.5 gal	UO	Attached SDS	0.0	N
	Laticrete 252 Sliver	1 gal	UO	Attached SDS	0.0	N
	Sheetrock Cover Coat	4.5 gal	UO	Attached SDS	0.0	N
	Hercules Plumbers Caulk	11 oz.	UO	Attached SDS	0.0	N
	Dryvit Backstop NTX	5 gal	UO	Attached SDS	0.0	N

* Describe the condition of the product containers as **Unopened (UO), Used (U),** or **Deteriorated (D)**
** Photographs of the **front and back** of product containers can replace the handwritten list of chemical ingredients. However, the photographs must be of good quality and ingredient labels must be legible.

SAFETY DATA SHEET

1. Identification

Product identifier **SHEETROCK® Brand PLUS 3® Lightweight All Purpose Joint Compound, Ready-Mixed**

Other means of identification

SDS number 61000010011

Synonyms Joint Compound (Ready-Mixed) , Taping Compound, Mud, Finishing Compound

Recommended use Interior use.

Recommended restrictions Use in accordance with manufacturer's recommendations.

Manufacturer / Importer / Supplier / Distributor information

Company name United States Gypsum Company

Address 550 West Adams Street
Chicago, Illinois 60661-3637

Telephone 1-800-874-4968

Website www.usg.com

Emergency phone number 1-800-507-8899

2. Hazard(s) identification

Physical hazards Not classified.

Health hazards Not classified.

OSHA defined hazards Not classified.

Label elements

Hazard symbol None.

Signal word None.

Hazard statement None.

Precautionary statement

Prevention Observe good industrial hygiene practices.

Response Get medical attention/advice if you feel unwell.

Storage Store as indicated in Section 7.

Disposal Dispose of in accordance with local, state, and federal regulations.

Hazard(s) not otherwise classified (HNOC) Not classified.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Limestone	1317-65-3	< 50
Perlite	93763-70-3	< 10
Attapulgite	12174-11-7	< 5

Composition comments All concentrations are in percent by weight unless ingredient is a gas.

Industrial hygiene studies by USG Corporation and governmental agencies did not detect airborne respirable crystalline silica above OSHA permissible exposure limits (PELs) during activities associated with the normal use of this product, though in some cases total dust PELs were exceeded. However, job site air monitoring should be conducted to determine actual exposure when PELs may be exceeded.

4. First-aid measures

Inhalation Dust irritates the respiratory system, and may cause coughing and difficulties in breathing. Move injured person into fresh air and keep person calm under observation. Get medical attention if symptoms persist.

Skin contact Contact with dust: Rinse area with plenty of water. Get medical attention if irritation develops or persists.

Eye contact Dust in the eyes: Do not rub eyes. Flush thoroughly with water. If irritation occurs, get medical assistance.

SAFETY DATA SHEET

Section 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	ABC Dry Chemical Fire Extinguishant- (Pressurized and Non-pressurized)
Other Identifiers:	Multi-purpose Dry Chemical
Product Code(s):	CH550, F15, F18
Model Code(s) for Extinguishers:	411, 417, 419, 423, 424, 425, 441, 443, 450, 456, 461, 464, 467, 470, 473, 476, 481, 487, 488, 491, 495, 500, 564, 567, 573, 581, 589, 592, 594, 668, 692, 720, 760, 763, 781.
Recommended Use:	Fire suppression, not for human or animal drug use.
Manufacturer:	AMEREX CORPORATION
Internet Address:	www.amerex-fire.com
Address:	7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081
Company Telephone:	(205) 655-3271
E-mail Address:	info@amerex-fire.com
Emergency Contacts:	Chemtrec 1(800) 424-9300 or (703) 527–3887
Revised:	March 13, 2018

Section 2. HAZARDS IDENTIFICATION

GHS – Classification

Health	Environmental	Physical
Acute Toxicity: Category 5	None	None
Skin Corrosion/Irritation: Category 3	None	None
Skin Sensitization: NO	None	None
Eye: Category 2A	None	Warning
STOT –Category 3	None	Warning
Carcinogen: Category None	None	None

GHS – Label Symbol(s):

If Pressurized: Gas Under Pressure

GHS – Signal Word(s): **Warning**

Other Hazards Not Resulting in Classification: Mica may contain small quantities of quartz (crystalline silica). Prolonged exposure to respirable crystalline silica dust at concentrations exceeding the occupational exposure limits may increase the risk of developing a disabling lung disease known as silicosis. IARC found limited evidence for pulmonary carcinogenicity of crystalline silica in humans. In the case of normal use of this product, exposure to silica should be nil.

The attapulgite clay used in this product has a fiber length of less than 5um; therefore, the clay is not considered to be carcinogenic to animals or humans.

GHS – Hazard Phrases

GHS Hazard	GHS Codes(s)	Code Phrase(s)
Physical	H229	*- Contents under pressure; may explode if heated.
Health	H303	May be harmful if swallowed.
	315	Causes skin irritation.
	319	Causes serious eye irritation.
	335	May cause respiratory irritation.
Environmental	411	Toxic to aquatic life with long-lasting effects.
Precautionary:		
General	P101	If medical advice is needed, have product container or label at hand.
Prevention	P251	Do not pierce or burn, even after use.
	261	Avoid breathing dust/fumes/gas/mist/vapours/spray.
	264	Wash exposed skin thoroughly after handling.
	270	Do not eat, drink or smoke when using this product.
	273	Avoid release to the environment.
	280	Wear protective gloves/protective clothing/eye protection/face protection.
Response	P312	Call a doctor if you feel unwell.
	321	Specific treatment (see Section 4. First Aid Measures)
	362	Take off contaminated clothing.
	391	Collect spillage.
	301+312	IF SWALLOWED: Call a doctor if you feel unwell.
	302+352	IF ON SKIN: Wash with plenty of water.
	304+340	IF INHALED, remove person to fresh air and keep comfortable for breathing.
	305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do - continue rinsing.
	342+311	If experiencing respiratory symptoms: Call a doctor.
	332+313	If skin irritation occurs: Get medical advice/attention.
	337+313	If eye irritation persist get medical advice/attention.
Storage	410+403	*- Protect from sunlight. Store in well-ventilated place..
Disposal	P501	Dispose of contents through a licensed disposal company. Contaminated container should be disposed of as unused product.

*- If under pressure

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	EC No.	REACH Reg. No.	CAS-No.	Weight %
Mono-ammonium phosphate	231-764-5	01-2119488166-29	7722-76-1	50-77
Ammonium sulfate	231-984-1	01-2119455044-46	7783-20-2	15-45
Attapulgite clay	601-805-5	Not Available	12174-11-7	3-8
Mica- potassium aluminum silicate	310-1276	Not Available	12001-26-2	1-3
Silicone oil methyl hydrogen polysiloxane	613-152-3	Not Available	63148-57-2	<1
Calcium carbonate	207-439-9	Not Available	1317-65-3	<1
Amorphous silica precipitated synthetic zeoliteghs	231-545-4	01-2119379499-16-0036	7631-86-9	<1
Yellow 14 pigment – diazo dye	226-789-3	Not Available	5468-75-7	<1

Adverse health effects and symptoms: Irritant to the respiratory system; Irritating to eyes and skin. Symptoms may include coughing, shortness of breath, and irritation of the lungs, eyes, and skin. Ingestion, although unlikely, may cause cramps, nausea and diarrhea.

Section 4. FIRST AID MEASURES

Eye Exposure: May cause irritation. Irrigate eyes with water and repeat until pain free. Seek medical attention if irritation develops, or if vision changes occur.

Skin Exposure: May cause skin irritation. In case of contact, wash with plenty of soap and water. Seek medical attention if irritation persists.

Inhalation: May cause irritation, along with coughing. If respiratory irritation or distress occurs, remove victim to fresh air. Give oxygen and artificial respiration if needed. Seek medical attention if irritation persists.

Ingestion: Overdose symptoms may include numbness or tingling in hands or feet, uneven heart rate, paralysis, feeling faint, chest pain or heavy feeling, pain spreading to the arm or shoulder, nausea, diarrhea, sweating, general ill feeling, or seizure (convulsions). If victim is conscious and alert, give 2-3 glasses of water to drink. If conscious, do not induce vomiting. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist.

Medical conditions possibly aggravated by exposure:	Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema, or bronchitis. Skin contact may aggravate existing skin disease. Chronic overexposure may cause pneumoconiosis (“dusty lung” disease).

Section 5. FIRE-FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not determined
Suitable Extinguishing Media:	Non-combustible. Use extinguishing media suitable for surrounding conditions.
Hazardous Combustion Products:	Carbon and sulfur oxides
Explosion Data:	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Unusual fire/explosion hazards:	In a fire this material may decompose, releasing toxic and irritating oxides of carbon, sulfur, potassium, ammonia and nitrogen (see Section 10).
Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus in pressure-demand, NIOSH approved or equivalent and full protective gear.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid inhalation, and contact with skin, eyes, and clothing.
Personal Protective Equipment:	Minimum - safety glasses, gloves, and a dust respirator.
Emergency Procedures:	NA
Methods for Containment:	Prevent further leakage or spillage if safe to do so.
Methods for Clean Up:	Avoid dust formation. Clean up released material using vacuum or wet sweep and shovel to minimize generation of dust. Bag and transfer to properly labeled containers. Ventilate area and wash spill site after material pickup is complete.
Environmental Precautions:	Prevent material from entering waterways.

Other: If product is contaminated, use PPE and containment appropriate to the nature of the most toxic chemical/material in the mixture.

Section 7. HANDLING AND STORAGE

Personal Precautions: Use appropriate PPE when handling or maintaining equipment, and wash thoroughly after handling (see Section 8).

Conditions for Safe Storage/Handling: Keep product in original container or extinguisher. Contents may be under pressure – inspect extinguisher consistent with product labeling to ensure container integrity.

Incompatible Products: Do not mix with other extinguishing agents, particularly potassium bicarbonate and sodium bicarbonate. Incompatible with strong oxidizing agents and strong acids. Do not store in high humidity. Do not combine with chlorine compounds.

Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Chemical Name	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Mono-ammonium phosphate	PNOC** Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction, 1.5 mg/m^3	NA
Ammonium Sulfate	PNOC** Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction, 1.5 mg/m^3	NA
Mica	6 mg/m^3	3 mg/m3	NR	NA
Attapulgite Clay	PNOC** Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	PNOC Total dust, 4 mg/m^3 Respirable fraction, 1.5 mg/m^3	
Silicone oil	NR**	NR	NR	NA
Calcium carbonate	PNOC Total dust, 15 mg/m^3 Respirable fraction, 5 mg/m^3	PNOC Total dust, 10 mg/m^3 Respirable fraction, 3 mg/m^3	-------	NA
Amorphous silica	80 mg/m^3 % silica	10 mg/m^3	4 mg/m^3	NA
Yellow 14 pigment	NR	NR	NR	NA

*German regulatory limits **PNOC = Particulates not otherwise classified (ACGIH) also known as Particulates not otherwise regulated (OSHA) *** NR = Not Regulated. All values are 8 hour time weighted average concentrations.

Engineering Controls:	Showers Eyewash stations Ventilation systems

Personal Protective Equipment – PPE Code E:

The need for respiratory protection is not probable during short-term exposure. PPE use during production process must be independently evaluated.

Eye/Face Protection:	Tightly fitting safety goggles
Skin and Body Protection:	Wear protective gloves/coveralls
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH approved respiratory protection should be worn. Use P100 respirators for limited exposure, use air-purifying respirator (APR) with high efficiency particulate air (HEPA) filters for prolonged exposure. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current safety and health requirements. The need for respiratory protection is not likely for short-term use in well ventilated areas.
Hygiene Measures:	Good personal hygiene practice is essential, such as avoiding food, tobacco products, or other hand-to-mouth contact when handling. Wash thoroughly after handling.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light yellow powder, finely divided odorless solid
Molecular Weight:	$NH_4H_2PO_4$: 115.03; $(NH_4)_2SO_4$: 132.14
Odor:	Odorless
Odor Threshold:	No information available
Decomposition Temperature ^oC:	100 - 120

Freezing Point °C:	No information available
Initial Boiling Point °C:	No information available
Physical State:	Crystalline Powder
pH:	Mixture approximately 4 to 5; NH4H2PO4: 4.2 in 0.2 molar solution; (NH4)2SO4: 5.5 in 0.1 molar solution
Flash Point °C:	None
Auto-ignition Temperature °C:	None
Boiling Point/Range °C:	No information available
Melting Point/Range °C:	NH4H2PO4: 190; (NH4)2SO4: 280
Flammability:	Not Flammable
Flammability/Explosive Limits in Air °C:	Upper – No; Lower-No
Explosive Properties:	None
Oxidizing Properties:	None
Volatile Component (%vol)	Not Applicable
Evaporation Rate:	No information available
Vapor Density:	No information available
Vapor Pressure at 25 °C:	NH4H2PO4: 1.41 mm/Hg; (NH4)2SO4: 2.573 kPa
Specific gravity at 25 °C:	NH4H2PO4: 1.80; (NH4)2SO4: 1.77
Solubility:	Coated-Not Immediately Soluble in Water
Partition Coefficient:	NH4H2PO4 Est: -4.11; (NH4)2SO4: Est: -0.48
Viscosity:	No information available

NOTE: NH4H2PO4 – Monoammonium Phosphate; (NH4)2SO4: – Ammonium Sulfate

Section 10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage and handling conditions.
Reactivity:	No reactivity for these chemicals is expected.cas7722
Incompatibles:	Strong alkalis (bases), magnesium, strong oxidizers, isocyanuric acids and chlorine compounds.
Conditions to Avoid:	Storage or handling near incompatibles.
Hazardous Decomposition Products:	Heat of fire may release carbon monoxide, carbon dioxide, and sulfur dioxide. Also ammonia, oxides of phosphorous and nitrogen oxides may be released during decomposition.
Possibility of Hazardous Reactions:	Slight
Hazardous Polymerization	Does not occur

Section 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure: Inhalation, skin, and eye contact.

Symptoms:

Immediate:

Inhalation: Irritation, coughing.

Eyes: Irritation.

Skin: Irritation.

Delayed: Symptoms appear to be relatively immediate

Acute Toxicity: Relatively non-toxic.

Chronic Toxicity:

Short-term Exposure: None known.

Long-term Exposure: As with all dusts, pneumoconiosis, or "dusty lung" disease, may result from chronic exposure.

Acute Toxicity Values - Health

Chemical Name	LD50		LC50 (Inhalation)
	Oral	Dermal	
Mono-ammonium phosphate	5750 mg/kg (rat)	>7940 mg/kg (rabbit)	Not available
Ammonium Sulfate	2840 mg/kg (rat)	>2000 mg/kg (rat)	>1000 mg/m3 (rat)
Mica	None	None	None
Attapulgite clay	None	None	None
Silicone oil	None	None	None
Calcium carbonate	6450 mg/kg (rat)	500 mg/24 hr (rabbit)	Not available
Amorphous silica	>5000 mg/kg (rat)	>2000 mg/kg (rabbit)	>2.2 mg/L (rat)
Yellow 14 pigment	>17000 mg/kg (rat)	>3000 mg/kg (rat)	>4448 mg/m3 (rat)

Reproductive Toxicity: This product's ingredients are not known to have reproductive or teratogenic effects.

Target Organs and Effects (TOST): Respiratory system irritant).
This product is a mild irritant to epithelial tissue, (eyes, mucous membranes, skin) and may aggravate dermatitis. No information was found indicating the product causes sensitization.

Other Toxicity Categories

Chemical Name	Germ Cell Mutagenicity	Carcino-genicity	Repro-ductive	TOST Single Exp	TOST Repeated Exp	Aspiration
Mono-ammonium phosphate	None	None	None	Cat 3	None	None
Ammonium Sulfate	None	None	None	Cat 3	None	None
Attapulgite clay	None	None	None	None	Kidney	None
Mica	None	None	None	None	None	None
Silicone oil	None	None	None	None	None	None
Calcium carbonate	None	None	None	None	None	None
Amorphous silica	None	None	None	None	None	None
Yellow 14 pigment	None	None	None	None	None	None

Section 12. ECOLOGICAL INFORMATION

Ecotoxicity:	Harmful effects to aquatic organisms after long-term exposure. Provides nutrient nitrogen and phosphorus to plant life.
Persistence/Degradability:	Degrades rapidly in humid/wet environment.
Probability of rapid biodegradation:	$NH_4H_2PO_4$ Est: 0.693 (Rapid); $(NH_4)_2SO_4$: Est: 0.684 (Rapid)
Anaerobic biodegradation probability:	$NH_4H_2PO_4$ Est: 0.398 (Slow); $(NH_4)_2SO_4$: Est: 0.398 (Slow)
Bioaccummulation potential:	Low.
Bioconcentration factor:	$NH_4H_2PO_4$: 3.16 L/kg; $(NH_4)_2SO_4$: 3.16 L/kg (wet weight) (Low BCF)
Bioaccummulation factor:	$NH_4H_2PO_4$: 63.04 L/kg; $(NH_4)_2SO_4$: 1.03 L/kg (wet weight)
Mobility in soil:	Slow evaporation rate; water soluble, may leach to groundwater
Log Koc:	$NH_4H_2PO_4$ Est: -1.25: $(NH_4)_2SO_4$: Est: 1.35
Log Koa:	$NH_4H_2PO_4$ Est: 16.72; $(NH_4)_2SO_4$: Est: 20.10
Log Kaw:	$NH_4H_2PO_4$ Est: -20.86; $(NH_4)_2SO_4$: Est: -19.62

NOTE: $NH_4H_2PO_4$ – Mono-ammonium Phosphate; $(NH_4)_2SO_4$: – Ammonium Sulfate

Other Adverse Ecological Effects: No other known effects at this time

Aquatic Toxicity Values – Environment – Research

Chemical Name	Acute (LC50)	Chronic (LC50)
Mono-ammonium phosphate	N/A	N/A
Ammonium Sulfate	N/A	N/A
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Aquatic Toxicity Values – Environment – Estimates

Chemical Name	Acute (LC50)	EC50
Mono-ammonium phosphate	2,91e+07 mg/L Fish 96 hr; 9.4e+06 mg/l Daphnid 48 hr;	6.70e+05 mg/L Gr. Algae 96 hr
Ammonium Sulfate	2521 mg/L Fish 96 hr; 1244 mg/l Daphnid 48 hr;	518 mg/L Gr. Algae 96 hr
Mica	N/A	N/A
Attapulgite clay	N/A	N/A
Silicone oil	N/A	N/A
Calcium carbonate	N/A	N/A
Amorphous silica	N/A	N/A
Yellow 14 pigment	N/A	N/A

Section 13. DISPOSAL CONSIDERATIONS

Safe Handling	Use appropriate PPE when handling, and wash thoroughly after handling (see Section 8).
Waste Disposal Considerations	Dispose in accordance with federal, state, and local regulations.
Contaminated Packaging	Dispose in accordance with federal, state, and local regulations.

NOTES:
This product is not a RCRA characteristically hazardous or listed hazardous waste. Dispose of according to state or local laws, which may be more restrictive than federal laws or regulations. Used product may be altered or contaminated, creating different disposal considerations.

Section 14. TRANSPORT INFORMATION

UN Number:	NA
UN Proper Shipping Name:	NA
Transport Hazard Class:	NA
Packing Group:	NA
Marine Pollutant?:	NO
IATA	Not regulated
DOT	Not regulated

NOTES:
This product is not defined as a hazardous material under U.S. Department of Transportation (DOT) 49 CFR 172, or by Transport Canada “Transportation of Dangerous Goods” regulations.

Special Precautions for Shipping:
The transportation information above covers the ABC 550 dry chemical extinguisher agent as shipped in bulk containers and not when contained in fire extinguishers or fire extinguisher systems. If shipped in a stored pressure-type fire extinguisher, and pressurized with a non-flammable, non-toxic inert expellant gas, the fire extinguisher is considered a hazardous material by the US Department of Transportation and Transport Canada. The proper shipping name shall be FIRE EXTINGUISHER and the UN designation is UN 1044. The DOT hazard class/division is LIMITED QUANTITY when pressurized to less than 241 psig and when shipped via highway or rail. UN Class 2.2. Non-Flammable Gas, when shipping via air. Packing Group – N/A

Section 15. REGULATORY INFORMATION

International Inventory Status: All ingredients are on the following inventories

Country(ies)	Agency	Status
United States of America	TSCA	Yes
Canada	DSL	Yes
Europe	EINECS/ELINCS	Yes
Australia	AICS	Yes
Japan	MITI	Yes
South Korea	KECL	Yes

REACH Title XVII Restrictions: No information available

Chemical Name	Dangerous Substances	Organic Solvents	Harmful Substances Whose Names Are to be Indicated on Label	Pollution Release and Transfer Registry (Class II)	Pollution Release and Transfer Registry (Class I)	Poison and Deleterious Substances Control Law
Mono-ammonium Phosphate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulfate	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

Component	ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying	ISHA – Harmful Substances Requiring Permission	Toxic Chemical Classification Listing (TCCL) – Toxic Chemicals	Toxic Release Inventory (TRI) – Group I	Toxic Release Inventory (TRI) – Group II
Mono-ammonium Phosphate 7722-76-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Ammonium Sulphate 7783-20-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Attapulgite clay	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Mica-potassium aluminum silicate 120001-26-2 (>2)	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Calcium carbonate 471-34-1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amorphous silica 69012-64-2	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Yellow 14 pigment 5468-75-7	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

European Risk and Safety phrases:

EU Classification:	XN	Irritant
R Phrases:	20	Harmful by inhalation.
	22	Harmful if swallowed

	36/37/38	Irritating to eyes, respiratory system, and skin.
S Phrases:	22	Do not breath dust.
	24/25	Avoid contact with skin and eyes
	26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
	36	Wear suitable protective clothing.
	37/39	Wear suitable gloves and eye protection.

U.S. Federal Regulatory Information:

SARA 313:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA) - This product does not contain and chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.
None of the chemicals in this product are under SARA reporting requirements or have SARA threshold planning quantities (TPQs) or CERCLA reportable quantities (RQs), or are regulated under TSCA 8(d).

SARA 311/312 Hazard Categories:

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
*-Sudden Release of Pressure Hazard	Yes
Reactive Hazard	No

* - Only applicable if material is in a pressurized extinguisher.

Clean Water/Clean Air Acts:
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42) or Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61) and Section 112 of the Clean Air Act Amendments of 1990.

U.S. State Regulatory Information:

Chemicals in this product are covered under specific State regulations, as denoted below:

Alaska - Designated Toxic and Hazardous Substances: None
California – Permissible Exposure Limits for Chemical Contaminants: None
Florida – Substance List: Mica Dust
Illinois – Toxic Substance List: None
Kansas – Section 302/303 List: None
Massachusetts – Substance List: Mica Dust
Minnesota – List of Hazardous Substances: None
Missouri – Employer Information/Toxic Substance List: None
New Jersey – Right to Know Hazardous Substance List: None
North Dakota – List of Hazardous Chemicals, Reportable Quantities: None

Pennsylvania – Hazardous Substance List: None
Rhode Island – Hazardous Substance List: Mica Dust
Texas – Hazardous Substance List: No
West Virginia – Hazardous Substance List: None
Wisconsin – Toxic and Hazardous Substances: None

California Proposition 65: No component is listed on the California Proposition 65 list.

Other:

Mexico – Grade	No component listed
Canada – WHMIS Hazard Class	Ammonium Sulfate listed as not a dangerous product according to HPR classification criteria

Section 16. OTHER INFORMATION

This SDS conforms to requirements under U.S., U.K., Canadian, Australian, and EU regulations or standards, and conforms to the proposed 2003 ANSI Z400.1 format.

Issuing Date	20-June-2012
Revision Date	13-March-2018
Revision Notes	None

The information herein is given in good faith but no warranty, expressed or implied, is made.
Updated by William F. Garvin, CIH.

FICHA DE SEGURIDAD

Sección 1. IDENTIFICACIÓN DEL PRODUCTO Y DE LA COMPAÑÍA

Nombre del producto:	Agente extintor de polvo químico ABC
Otros identificadores:	Polvo químico polivalente
Código(s) de producto:	CH550, F15, F18
Código(s) de modelo de extintores:	411, 417, 419, 423, 424, 425, 441, 443, 450, 456, 461, 464, 467, 470, 473, 476, 481, 487, 488, 491, 495, 500, 564, 567, 573, 581, 589, 592, 594, 668, 692, 720, 760, 763, 781.
Uso recomendado:	Para supresión de incendios, no uso como droga par humanos animales.
Fabricante:	AMEREX CORPORATION
Dirección de Internet:	www.amerex-fire.com
Dirección:	7595 Gadsden Highway, P.O. Box 81 Trussville, AL 35173-0081
Teléfono de la empresa: 2	(205) 655-3271
Dirección de correo electrónico:	info@amerex-fire.com
Contactos de urgencia:	Chemtrec 1(800) 424-9300 o (703) 527–3887
Revisado:	Enero de 2015

Sección 2. IDENTIFICACIÓN DE RIESGOS

GHS - Clasificación

Salud	Medioambiental	Propiedades físicas
Toxicidad aguda: Categoría 5	Ninguna	Ninguna
Corrosión/irritación de la piel: Categoría 2	Ninguna	Ninguna
Sensibilización de la piel: NO	Ninguna	Ninguna
Ojos: Categoría 2B	Ninguna	Advertencia
Cancerígeno: Categoría Ninguna	Ninguna	Ninguna

Símbolo(s) etiqueta - SGA: Ninguna

GHS - Palabra(s) señales: **Advertencia**

Otros peligros que no den lugar a una clasificación: Ninguna

GHS - Frases de peligro

Peligro GHS	Código(s) GHS	Frase(s) de código
Propiedades físicas	Ninguna	
Salud	H303 313 320 333	Puede ser nocivo en caso de ingestión Puede ser nocivo en contacto con la piel Provoca irritación ocular Puede ser dañino si se inhala
Medioambiental	Ninguna	
Precauciones:		
Consideraciones generales	P101 102	Si se necesita consejo médico, tenga el envase o la etiqueta a mano Mantenga fuera del alcance de los niños
Prevención	234 251 261 264 270 281 285	Mantener en el recipiente original Recipiente presurizado; no perforar o quemar, incluso después de usado Evite respirar el polvo Lávarse las manos y la cara completamente después del manejo No coma, beba ni fume mientras utiliza este producto Utilice equipos de protección personal según necesidad En caso de ventilación insuficiente, utilice protección respiratoria
Respuesta	P301+332+331 302 + 352 304 + 313 + 341 305 + 351 + 338 308 + 313 337 + 313	En caso de ingestión, beba 2 o 3 vasos de agua y no induzca el vómito Si entra en contacto con la piel, lávela con agua y jabón Si se inhala, si la respiración es difícil, lleve a la persona afectada al exterior y manténgala en reposo en una posición cómoda para respirar Busque consejo/atención médico Si entra en contacto con los ojos, lávelos cuidadosamente con agua durante varios minutos. Quítese las lentes de contacto si las lleva y resulta fácil de hacer, y siga enjuagándolos Si ha estado expuesto o está preocupado, busque consejo/atención médico Si persiste la irritación ocular busque consejo/atención médico
Almacenamiento	P401+402+403	Almacénese en el recipiente original o el extintor en un lugar seco y bien ventilado

Sección 3. COMPOSICIÓN/INFORMACIÓN SOBRE LOS INGREDIENTES

Nombre químico	EC Nº	REACH Reg. Nº	CAS-Nº	Peso %
Fosfato monoamónico	NA	NA	7722-76-1	55-75
Sulfato amónico	231-984-1	NA	7783-20-2	20-40
Greda aluminosilicato de magnesio	NA	No disponible	8031-18-3	<3
Mica-aluminosilicato-de-potasio	NA	No disponible	12001-26-2	1-2
Aceite de silicona polysiloxane metílico del hidrógeno	NA	No disponible	63148-57-2	<1
Carbonato cálcico	215-279-6	No disponible	1317-65-3	<1
Ceolita, sílice sintética amorfa precipitada	262-373-8	No disponible	112926-00-8	<1
Amarillo 14 del pigmento - tinte diazo	228-767-9	No disponible	5468-75-7	<1

Resumen de emergencias: Amarillo claro, polvo sólido fino, inodoro.

Efectos adversos sobre la salud y síntomas: Irritante para el sistema respiratorio; Irritante para los ojos y la piel. Los síntomas pueden incluir tos, dificultad para respirar e irritación de los pulmones, ojos y piel.
La ingestión, aunque poco probable, puede causar calambres, náuseas y diarrea.

Niveles de corte

Nombre químico	Toxicidad para la reproducción	Carcinogénesis	Mutagenicidad	Otras clases de riesgo
Fosfato monoamónico	NA	NA	NA	NA
Sulfato amónico	NA	NA	NA	NA
Greda aluminosilicato de magnesio	NA	NA	NA	NA
Mica-aluminosilicato-de-potasio	NA	NA	NA	NA
Aceite de silicona polysiloxane metílico del hidrógeno	NA	NA	NA	NA
Carbonato cálcico	NA	NA	NA	NA
Ceolita, sílice sintética amorfa precipitada	NA	NA	NA	NA
Pigmento amarillo 14 - colorante di-azo	NA	NA	NA	NA

Sección 4. MEDIDAS DE PRIMEROS AUXILIOS

Exposición ocular: Puede provocar irritación. Lave los ojos con agua hasta eliminar el dolor. Busque atención médica si se desarrolla irritación, o si se producen cambios en la visión.

Exposición de la piel: Puede causar irritación de la piel. En el caso de que entre en contacto con los ojos, enjuáguelos inmediatamente con agua jabón abundantes. Busque atención médica si persiste la irritación.

Inhalación: Puede provocar irritación y tos. En caso de irritación o malestar respiratorio, lleve a la persona afectada al aire libre. Busque atención médica si persiste la irritación.

Ingestión: Los síntomas de sobredosis pueden incluir entumecimiento u hormigueo en las manos o los pies, ritmo cardíaco irregular, parálisis, sensación de desmayo, dolor en el pecho o sensación de pesadez, dolor que se extiende al brazo u hombro, náusea, diarrea, sudoración, sensación de malestar general, o convulsiones (convulsiones). Si la víctima está consciente y alerta, dele 2 a 3 vasos de agua para beber. Si está consciente, no provoque el vómito. Busque atención médica inmediatamente. No deje a la

	víctima desatendida. Para prevenir la aspiración del producto tragado, tender la víctima de costado con la cabeza más baja que la cintura.
Trastornos médicos eventualmente agravados por la exposición:	La inhalación del producto puede agravar problemas respiratorios crónicos como asma, enfisema o bronquitis. El contacto con la piel puede agravar una enfermedad existente de la piel. Una exposición crónica excesiva puede causar neumoconiosis (la llamada enfermedad de "dusty lung").

Sección 5. MEDIDAS DE LUCHA CONTRA INCENDIOS

Inflamabilidad:	No inflamable
Punto de inflamabilidad:	Sin determinar
Agentes extintores adecuados:	No combustible. Utilice agentes extintores adecuados a las condiciones del entorno
Productos de combustión peligrosos:	Óxidos de carbono y azufre
Datos de explosividad:	
Sensibilidad al impacto mecánico:	Insensible
Sensibilidad a la descarga de estática:	Insensible
Riesgos inusuales de fuego/explosión:	En caso de incendio este material puede descomponerse, liberando óxidos de carbono, azufre, potasio y nitrógeno (ver Sección 10).
Equipos de protección y precauciones para bomberos	Como en cualquier incendio, usar un aparato de respiración autónomo con demanda de presión, aprobado por NIOSH o equipo equivalente de protección completo.

Sección 6. MEDIDAS PARA IMPEDIR EL DISPARO INTEMPESTIVO

Precauciones personales:	Evite el contacto con la piel, los ojos y la ropa.
Equipo de protección personal:	Como mínimo, gafas de seguridad, guantes y un respirador de polvo.
Procedimientos de emergencia:	NA
Métodos de contención:	Impedir nuevos escapes o derrames si puede hacerse sin riesgos.
Métodos de limpieza:	Evitar la formación de polvo; limpiar el material liberado utilizando un aspirador o barrido húmedo y pala para minimizar la producción de polvo. Métalo en bolsas y trasládelo a recipientes correctamente etiquetados. Ventile la zona y lave el lugar del derrame una vez eliminado por completo el material.

Precauciones medioambientales: Evitar que el material entre en vías de agua.
Otros: Si el producto está contaminado, use equipos EPP y de contención apropiados a la naturaleza de la sustancia/material más tóxico en la mezcla.

Sección 7. MANIPULACIÓN Y ALMACENAMIENTO

Precauciones personales: Utilice EPP apropiado al manejarlo, y lávese bien después de su manipulación (ver sección 8)

Condiciones para un almacenamiento seguro: Mantenga el producto en su envase o extintor original.
El contenido puede estar bajo presión - para garantizar la integridad del recipiente, compruebe periódicamente que no está oxidado.

Productos incompatibles: No mezclar con otros agentes extintores, especialmente bicarbonato potásico y bicarbonato sódico. Incompatible con agentes oxidantes fuertes y ácidos fuertes. No lo almacene en un lugar de alta humedad. No combinar con compuestos de cloro.

Sección 8. CONTROLES DE EXPOSICIÓN/PROTECCIÓN PERSONAL

Nombre químico	OSHA PEL	ACGIH TLV	DFG MAK *	EU BLV
Fosfato monoamónico	PNOC** Polvo total, 15 mg/m3 Fracción respirable, 5 mg/m3	PNOC Polvo total, 10 mg/m3 Fracción respirable, 3 mg/m3	PNOC Polvo total, 4 mg/m3 Fracción respirable, 1,5 mg/m3	NA
Sulfato amónico	PNOC** Polvo total, 15 mg/m3 Fracción respirable, 5 mg/m3	PNOC Polvo total, 10 mg/m3 Fracción respirable, 3 mg/m3	PNOC Polvo total, 4 mg/m3 Fracción respirable, 1,5 mg/m3	NA
Mica	6 mg/m3	3 mg/m3	NR	NA
Greda	PNOC** Polvo total, 15 mg/m3 Fracción respirable, 5 mg/m3	PNOC Polvo total, 10 mg/m3 Fracción respirable, 3 mg/m3	PNOC Polvo total, 4 mg/m3 Fracción respirable, 1,5 mg/m3	
Aceite de silicona	NR**	NR	NR	NA
Carbonato cálcico	PNOC Polvo total, 15 mg/m3 Fracción respirable, 5 mg/m3	PNOC Polvo total, 10 mg/m3 Fracción respirable, 3 mg/m3	-------	NA
Sílice amorfo	80 mg/m3 % sílice	10 mg/m3	4 mg/m3	NA
Pigmento amarillo 14	NR	NR	NR	NA

*Límites reglamentarios Alemanes ** PNCOF = Partículas no clasificadas de otro modo (ACGIH) también conocidos como Partículas no reguladas de otro modo (OSHA) *** NR = No Regulado. Todos los valores corresponden a concentraciones medias ponderadas de 8 h ponderadas para el tiempo.

Duchas
Puestos de lavado de ojos
Sistemas de ventilación

Controles de ingeniería:

Equipo de Protección Personal - Código PPE E:

Protección ocular/facial:	Gafas de seguridad ajustadas
Protección de la piel y del cuerpo:	Llevar guantes/Modo de protección
Protección respiratoria:	Si los límites de exposición son superados o se experimenta irritación, se debería llevar protección respiratoria certificada por NIOSH. Use máscara de polvo N95 para una exposición limitada; Para una exposición prolongada, utilice un respirador purificador de aire (APR) con filtros de alta eficiencia para partículas en el aire (HEPA). Pueden requerirse respiradores de aire de presión positiva para altas concentraciones de contaminantes en el aire. La protección respiratoria debe ser proporcionada de acuerdo con la normativa local vigente. No es probable que se necesite protección respiratoria para un uso de poca duración en zonas bien ventiladas.
Medidas de higiene:	Son imprescindibles las buenas prácticas de higiene personal, como evitar alimentos, productos de tabaco, u otro contacto boca a cuerpo al manipular el producto. Lávese cuidadosamente después del manejo.

Sección 9. PROPIEDADES FÍSICAS Y QUÍMICAS

Aspecto:	Polvo amarillo claro, sólido inodoro finamente dividido
Peso molecular:	NH4H2PO4: 115,03; (NH4)2SO4: 132,14
Olor:	Inodoro
Umbral de olor:	No hay información disponible
Temperatura de descomposición °C:	100 - 120

Punto de congelación °C:	No hay información disponible
Punto de ebullición inicial °C:	No hay información disponible
Estado físico:	Polvo cristalino
pH:	Mezcla de aproximadamente 4 a 5; NH4H2PO4: 4,2 en solución molar 0,2; (NH4)2SO4: 5,5 en solución molar 0,1
Punto de inflamabilidad °C:	Ninguna
Temperatura de ignición espontánea °C:	Ninguna
Punto de ebullición/intervalo de °C:	No aplicable
Punto de fusión/intervalo °C:	NH4H2PO4: 190; (NH4)2SO4: 280
Inflamabilidad:	No inflamable
Límites de inflamabilidad en aire °C:	Superior - No inflamable; Inferior - No inflamable
Propiedades explosivas:	Ninguna
Propiedades oxidantes:	Ninguna
Componente volátil (% vol)	No aplicable
Velocidad de evaporación:	No aplicable
Densidad de vapor:	No aplicable
Presión de vapor:	No aplicable
Peso específico a 25 C:	NH4H2PO4: 1,80; (NH4)2SO4: 1,77
Solubilidad:	Revestido - No soluble inmediatamente en agua
Coeficiente de partición:	NH4H2PO4 Est: -4,11; (NH4)2SO4: Est: -0,48
Viscosidad:	No aplicable

NOTA: NH4H2PO4 - Fosfato monoamónico; (NH4)2SO4: – Sulfato amónico

Sección 10. ESTABILIDAD Y REACTIVIDAD

Estabilidad:	Estable bajo las condiciones de almacenamiento y manipulación recomendadas.
Reactividad:	
Incompatibilidades:	Bases fuertes, magnesio, oxidantes fuertes, ácidos isocianúrica y compuestos de cloro.
Situaciones a evitar:	Almacenamiento o manipulación cerca de productos incompatibles.
Productos de descomposición peligrosos:	El calor del fuego puede liberar monóxido de carbono, dióxido de carbono y dióxido de azufre. El amoníaco, óxidos de fósforo y óxidos de nitrógeno también pueden ser liberados durante la descomposición.
Posibilidad de reacciones peligrosas:	Leve
Polimerización peligrosa	No ocurre

Sección 11. INFORMACIÓN TOXICOLÓGICA

Vías de exposición probables: Inhalación, contacto con piel y ojos.

Síntomas:

- Inmediata:
  - Inhalación: Irritación, tos.
  - Ojos: Irritación.
  - Piel: Irritación.
- Con retraso: Los síntomas parecen ser relativamente inmediatos

Toxicidad aguda: Relativamente no tóxico

Toxicidad crónica:

- Exposición a corto plazo: Ninguna conocida
- Exposición a largo plazo: Al igual que con todos los polvos, la exposición crónica puede dar lugar a neumoconiosis.

Valores de toxicidad aguda - Salud

Nombre químico	LD50		LC50 (Inhalación)
	Oral	Dérmico	
Fosfato monoamónico	5750 mg/kg (rata)	> 7940 mg/kg (conejo)	No disponible
Sulfato amónico	2840 mg/kg (rata)	No disponible	No disponible
Mica	Ninguna	Ninguna	Ninguna
Greda	Ninguna	Ninguna	Ninguna
Aceite de silicona	Ninguna	Ninguna	Ninguna
Carbonato cálcico	6450 mg/kg (rata)	500 mg/24 h (conejo)	No disponible
Sílice amorfo	> 5000 mg/kg (rata)	> 2000 mg/kg (conejo)	> 2,2 mg/L (rata)
Pigmento amarillo 14	> 17000 mg/kg (rata)	> 3000 mg/kg (rata)	> 4448 mg/m3 (rata)

Toxicidad para la reproducción: No se conocen efectos reproductivos o teratogénicos de este producto.

Órganos afectados y efectos (TOST): Irritante del sistema respiratorio).
Este producto es un irritante leve al tejido epitelial, (ojos, membranas mucosas, piel) y puede agravarla dermatitis. No se encontró información que indicara que el producto es un sensibilizante.

Otros Categorías de Toxicidad

Nombre químico	Mutagenicidad de las células germinales	Carcinogenicidad	Reproductivo	TOST una sola exposición	TOST exposición repetida	Aspiración
Fosfato monoamónico	Ninguna	Ninguna	Ninguna	Cat 3	Ninguna	Ninguna
Sulfato amónico	Ninguna	Ninguna	Ninguna	Cat 3	Ninguna	Ninguna
Greda	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna
Mica	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna
Aceite de silicona	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna
Carbonato cálcico	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna
Sílice amorfo	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna
Pigmento amarillo 14	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna	Ninguna

Sección 12. INFORMACIÓN MEDIOAMBIENTAL

Ecotoxicidad:	No se conocen efectos negativos. Proporciona nutrientes de nitrógeno y fósforo para la vida vegetal.
Persistencia/Degradabilidad:	Se degrada rápidamente en ambiente húmedo.
Probabilidad de biodegradación rápida:	NH4H2PO4 Est: 0,693 (rápida) (NH4)2SO4: Est: 0,684 (rápida)
Probabilidad de biodegradación anaeróbica:	NH4H2PO4 Est: 0,398 (lenta); (NH4)2SO4: Est: 0,398 (lenta);
Potencial de bioacumulación:	Baja.
Factor de bioconcentración:	NH4H2PO4: 3,16 L/kg; (NH4)2SO4: 3,16 L/kg (peso húmedo)
Bioacumulación:	Extensión desconocida.
Movilidad en el suelo:	Tasa de evaporación lenta; soluble en agua, puede filtrarse a las aguas subterráneas
Log Koc:	NH4H2PO4 Est: -1,25: (NH4)2SO4: Est: 1,35
Log Koa:	NH4H2PO4 Est: 16,72; (NH4)2SO4: Est: 20,10
Log Kaw:	NH4H2PO4 Est: -20,86; (NH4)2SO4: Est: -19,62

NOTA: NH4H2PO4 - Fosfato monoamónico; (NH4)2SO4: – Sulfato amónico

Otros efectos ecológicos adversos: No se conocen otros efectos en este momento

Valores de toxicidad acuática - medioambiental - investigación

Nombre químico	Aguda (CL50)	Crónica (LC50)
Fosfato monoamónico	N/A	N/A
Sulfato amónico	N/A	N/A
Mica	N/A	N/A
Greda	N/A	N/A
Aceite de silicona	N/A	N/A
Carbonato cálcico	N/A	N/A
Sílice amorfo	N/A	N/A
Pigmento amarillo 14	N/A	N/A

Valores de toxicidad acuática - medioambiental - estimaciones

Nombre químico	Aguda (CL50)	EC50
Fosfato monoamónico	2,91e+07 mg/L peces 96 h; 9,4e + 06 mg/l dáfnidos 48 h;	6,70e+05 mg/L Gr. Algas 96 h
Sulfato amónico	2,521 mg/L peces 96 horas; 1,244 mg/l dáfnidos 48 h;	518 mg/L Gr. Algas 96 h
Mica	N/A	N/A
Greda	N/A	N/A
Aceite de silicona	N/A	N/A
Carbonato cálcico	N/A	N/A
Sílice amorfo	N/A	N/A
Pigmento amarillo 14	N/A	N/A

Sección 13. CONSIDERACIONES PARA LA ELIMINACIÓN

Manejo seguro	Utilice EPP apropiado al manejarlo, y lávese bien después de su manipulación (ver sección 8).
Consideraciones relativas a la eliminación de residuos	Eliminar de acuerdo con normativas federales, estatales y locales.
Envases contaminados	Eliminar de acuerdo con normativas federales, estatales y locales.

NOTA
S:
Este producto no está listado como residuo peligroso ni característicamente peligroso en los términos de RCRA. Eliminar de acuerdo con las leyes estatales o locales, que pueden ser más restrictivas que las leyes o reglamentos federales. El producto usado puede ser alterado o contaminado, dando lugar a diferentes consideraciones sobre su eliminación.

Sección 14. INFORMACIÓN SOBRE EL TRANSPORTE

Número de la ONU:	NA
Nombre correcto para envíos ONU:	NA
Clase de peligro para el transporte:	NA
Grupo de embalaje:	NA
¿Contaminante marino?:	NO
IATA	No regulado
DOT	No regulado

NOTAS:
Este producto no está definido como material peligroso en los términos del Departamento de

Transporte de Estados Unidos (DOT) 49 CFR 172, o de los reglamentos "Transporte de Mercancías Peligrosas" de Transport Canada.

Precauciones especiales para el envío:
Si se envía en un extintor del tipo de presión incorporada, presurizado con un gas propulsor inerte no tóxico y no inflamable, el extintor es considerado como material peligroso por el Departamento de Transporte de Estados Unidos y Transport Canada. El nombre oficial de transporte deberá ser EXTINTOR DE INCENDIOS y la designación de la ONU es ONU 1044. La clase de riesgo DOT es la de Cantidad Limitada cuando está presurizado a menos de 241 psig y se transporta por carretera o ferrocarril. Al enviarlo por vía aérea, utilice una etiqueta de Gas No Inflamable (clase 2.2).

Sección 15. INFORMACIÓN SOBRE REGLAMENTOS

Estado de Inventario Internacional: Todos los ingredientes están en los siguientes inventarios

País(es)	Agencia	Estado
Estados Unidos de América	TSCA	Sí
Canadá	DSL	Sí
Europa	EINECS/ELINCS	Sí
Australia	AICS	Sí
Japón	MITI	Sí
Corea del Sur	KECL	Sí

Restricciones REACH Título VII: No hay información disponible

Nombre químico	Sustancias peligrosas	Disolventes orgánicos	Sustancias nocivas cuyos nombres deberán indicarse en la etiqueta	Registro de emisiones y transferencia de contaminantes (Clase II)	Registro de emisiones y transferencia de contaminantes (Clase I)	Ley de Control de sustancias venenosas y dañinas
Fosfato monoamónico	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Sulfato amónico	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable

Componente	ISHA - Sustancias nocivas prohibidas para Fabricación, Importación, Transferencia o Suministro	ISHA - Sustancias nocivas que requieren autorización	Clasificación de productos tóxicos (T CCL) - Sustancias tóxicas	Inventario de emisiones tóxicas (T RI) - Grupo I	Inventario de emisiones tóxicas (T RI) - Grupo II
Fosfato monoamónico7722-76-1	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Sulfato amónico	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Greda aluminosilicato	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable

de magnesio 8031-18-3 (>4)					
Mica-aluminosilicato-de-potasio 120001-26-2 (>2)	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Carbonato cálcico 471-34-1	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Sílice amorfo 69012-64-2	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable
Pigmento amarillo 14 5468-75-7	No aplicable	No aplicable	No aplicable	No aplicable	No aplicable

Frases de riesgo y seguridad europeas:

Clasificación UE: Irritante

Frases R:	20	Nocivo por inhalación.
	36/37	Irrita los ojos, las vías respiratorias.
Frases S:	22	No respire el polvo.
	24/25	Evite el contacto con la piel y los ojos
	26	En caso de contacto con los ojos, enjuáguese inmediatamente con agua abundante y busque consejo médico
	36	Lleve ropa de protección adecuada.

Información sobre reglamentos federales de EEUU:

SARA 313:
Sección 313 del Título III de la ley de Enmiendas del Superfondo y Reautorización de 1986 (SARA) - Este producto no contiene productos ni sustancias químicas sujetos a los requisitos de información de la Ley y el Título 40 del Código de Reglamentos Federales, Parte 372.
Ninguna de las sustancias químicas en este producto está sujeto a requisitos de información de SARA o tiene cantidades de planificación de umbral (TPQ) de SARA o cantidades declarables (RQ) de CERCLA, o están regulados bajo TSCA 8 (d).

SARA 311/312 Categorías de peligro:

Peligro agudo para la salud	Sí
Riesgo crónico para la salud	No
Peligro de incendio	No
Peligro de liberación repentina de presión-*	Sí
Peligro reactivo	No

* - Sólo aplicable si el material se encuentra en un extintor presurizado.

Ley de Agua limpia:
Este producto no contiene sustancias reguladas como contaminantes de conformidad con la Ley de Agua Limpia (40 CFR 122.21 and 40 CFR 122.42), Ley de Aire Limpio, Sección 112 Contaminantes peligrosos del aire (HAPs) (ver 40 CFR 61)
Este producto no contiene sustancias reguladas como contaminantes peligrosos del aire (HAPs)

bajo Sección 112 de las Enmiendas a la Ley de Aire Limpio de 1990.

Información sobre reglamentos estatales de EEUU:

Las sustancias químicas en este producto están cubiertas por reglamentos estatales específicos, como se indica a continuación:

Alaska - Sustancias tóxicas y peligrosas designadas: Ninguna
California - límites de exposición permisibles de contaminantes químicos: Ninguna
Florida - Lista de sustancias: Polvo de Mica
Illinois - Lista de Sustancias Tóxicas: Ninguna
Kansas - Sección 302/303 de lista: Ninguna
Massachusetts - Lista de sustancias: Polvo de Mica
Minnesota - Lista de sustancias peligrosas: Ninguna
Missouri - Información del empleador/Lista de Sustancias Tóxicas: Ninguna
New Jersey - Lista de sustancias peligrosas con derecho a la información: Ninguna
Dakota del Norte - Lista de productos químicos peligrosos, Cantidades reportables: Ninguna
Pensilvania - Lista de sustancias peligrosas: Ninguna
Rhode Island - Lista de sustancias peligrosas: Polvo de Mica
Texas - Lista de sustancias peligrosas: No
Virginia Occidental - Lista de sustancias peligrosas: Ninguna
Wisconsin - Sustancias tóxicas y peligrosas: Ninguna

California Proposition 65: Ninguna de los componentes está listado en la lista Proposición 65 de California.

Otros:

México - Grado	Ningún componente enumerado
Canadá - Clase de Riesgo W HMIS	Ningún componente enumerado

Sección 16. INFORMACIÓN ADICIONAL

Esta Ficha de Seguridad se ajusta a los requisitos de reglamentos o normas de los Estados Unidos, Reino Unido, Canadá, Australia y la UE, y se ajusta a la propuesta de formato ANSI Z400.1 2003.

Fecha de Emisión	17-junio-2012
Fecha de revisión	17-octubre-2013
Fecha de revisión	06-enero-2015
Notas de revisión	Ninguna

La información contenida en este documento se da de buena fe, pero no ofrece ninguna garantía, expresa o implícita. Actualizado por William F. Garvin, CIH.

252 Silver

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

Revision Date: 08/12/2019 Date of Issue: 06/29/2018 Supersedes Date: 07/22/2019 Version: 2.1

SECTION 1: IDENTIFICATION

1.1. Product Identifier

Product Form: Mixture

Product Name: 252 Silver

Product Code: 0252-0050-21 (100, 105, 120, 130), 0252-0050-22 (120)

1.2. Intended Use of the Product

Tile Adhesive. For professional use only.

1.3. Name, Address, and Telephone of the Responsible Party

Company
LATICRETE International
1 Laticrete Park, N
Bethany, CT 06524
T (203)-393-0010
www.laticrete.com

Company
LATICRETE Canada ULC
PO Box 129, Emeryville, Ontario, Canada
N0R-1A0
(833)-254-9255

1.4. Emergency Telephone Number

Emergency Number : For Chemical Emergency call ChemTel Inc. day or night:
(800)255-3924 (North America)
(800)-099-0731 (Mexico)
+1 (813)248-0585 (International - collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the Substance or Mixture

GHS-US/CA Classification

Skin Corr. 1C	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Carc. 1A	H350
STOT SE 3	H335
STOT RE 1	H372

Full text of hazard classes and H-statements : see section 16

2.2. Label Elements

GHS-US/CA Labeling

Hazard Pictograms (GHS-US/CA) :

GHS05 GHS07 GHS08

Signal Word (GHS-US/CA) : Danger

Hazard Statements (GHS-US/CA) : H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H335 - May cause respiratory irritation.
H350 - May cause cancer (Inhalation).
H372 - Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Precautionary Statements (GHS-US/CA) : P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P260 - Do not breathe vapors, mist, or spray.
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.

P272 - Contaminated work clothing should not be allowed out of the workplace.
P280 - Wear protective gloves, protective clothing, and eye protection.
P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substance

Not applicable

3.2. Mixture

Name	Product Identifier	% *	GHS Ingredient Classification
Quartz	(CAS-No.) 14808-60-7	58 - 63	Carc. 1A, H350 STOT SE 3, H335 STOT RE 1, H372
Cement, portland, chemicals	(CAS-No.) 65997-15-1	29 - 32	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
Calcium oxide	(CAS-No.) 1305-78-8	16 - 22	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402
Limestone	(CAS-No.) 1317-65-3	7 - 10	Not classified
Silicic acid (H_4SiO_4), calcium salt (1:2)	(CAS-No.) 10034-77-2	0.9 - 1.6	Eye Irrit. 2A, H319
Calcium sulfate dihydrate	(CAS-No.) 13397-24-5	1.4 - 1.6	Not classified
Acetic acid ethenyl ester, polymer with ethene and ethenol	(CAS-No.) 26221-27-2	< 1.4	Comb. Dust
Magnesium oxide (MgO)	(CAS-No.) 1309-48-4	0.9 - 1.0	Not classified
Kaolin	(CAS-No.) 1332-58-7	< 0.2	Not classified
Lithium carbonate	(CAS-No.) 554-13-2	0.05	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Irrit. 2B, H320 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
Chromium, ion (Cr6+)	(CAS-No.) 18540-29-9	0.00003	Skin Sens. 1, H317 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Full text of H-phrases: see section 16

*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

SECTION 4: FIRST AID MEASURES

4.1. Description of First-aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

Skin Contact: Immediately remove contaminated clothing. Immediately flush skin with plenty of water for at least 30 minutes. Get immediate medical advice/attention.

Eye Contact: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

4.2. Most Important Symptoms and Effects Both Acute and Delayed

General: Causes severe skin burns and eye damage. May cause respiratory irritation. Skin sensitization. Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). May cause cancer (Inhalation).

Inhalation: Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; lung lesions can appear within five years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that lung lesions appear earlier and the progression is more rapid.

Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis can be fatal.

Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Concrete dust, in association with sweat and friction, can lead to skin irritation and dermatitis. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers.

Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. May cause cancer by inhalation.

4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: FIRE-FIGHTING MEASURES

5.1. Extinguishing Media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not considered flammable but may burn at high temperatures.

Explosion Hazard: Product is not explosive.

Reactivity: Hydrofluoric acid will react with and dissolve glass, and other silica containing material. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause violent reaction.

5.3. Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Silicon oxides. Carbon oxides (CO, CO_2). Sulfur oxides.

5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

6.1.1. For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protective equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

6.1.2. For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

6.2. Environmental Precautions

Prevent entry to sewers and public waters.

6.3. Methods and Materials for Containment and Cleaning Up

For Containment: Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.

Methods for Cleaning Up: Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled solid. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for Safe Handling

Additional Hazards When Processed: May release corrosive vapors.

Precautions for Safe Handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Handle empty containers with care because they may still present a hazard. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures.

7.2. Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in original container or corrosive resistant and/or lined container.

Incompatible Materials: Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

7.3. Specific End Use(s)

Tile Adhesive. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

Quartz (14808-60-7)		
USA ACGIH	ACGIH TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
USA ACGIH	ACGIH chemical category	A2 - Suspected Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	50 µg/m³ (Respirable crystalline silica)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.05 mg/m³ (respirable dust)

USA IDLH	US IDLH (mg/m³)	50 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate)
British Columbia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable)
Manitoba	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	0.1 mg/m³ (respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Nunavut	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline)
Northwest Territories	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline)
Ontario	OEL TWA (mg/m³)	0.1 mg/m³ (designated substances regulation-respirable (Silica, crystalline)
Prince Edward Island	OEL TWA (mg/m³)	0.025 mg/m³ (respirable particulate matter)
Québec	VEMP (mg/m³)	0.1 mg/m³ (respirable dust)
Saskatchewan	OEL TWA (mg/m³)	0.05 mg/m³ (respirable fraction (Silica - crystalline (Trydimite removed))
Yukon	OEL TWA (mg/m³)	300 particle/mL (Silica - Quartz, crystalline)

Cement, portland, chemicals (65997-15-1)		
USA ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
USA IDLH	US IDLH (mg/m³)	5000 mg/m³
Alberta	OEL TWA (mg/m³)	10 mg/m³
British Columbia	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Newfoundland & Labrador	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nunavut	OEL STEL (mg/m³)	20 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³
Ontario	OEL TWA (mg/m³)	1 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable)
Prince Edward Island	OEL TWA (mg/m³)	1 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Québec	VEMP (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)

Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Calcium oxide (1305-78-8)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³
USA NIOSH	NIOSH REL (TWA) (mg/m³)	2 mg/m³
USA IDLH	US IDLH (mg/m³)	25 mg/m³
Alberta	OEL TWA (mg/m³)	2 mg/m³
British Columbia	OEL TWA (mg/m³)	2 mg/m³
Manitoba	OEL TWA (mg/m³)	2 mg/m³
New Brunswick	OEL TWA (mg/m³)	2 mg/m³
Newfoundland & Labrador	OEL TWA (mg/m³)	2 mg/m³
Nova Scotia	OEL TWA (mg/m³)	2 mg/m³
Nunavut	OEL STEL (mg/m³)	4 mg/m³
Nunavut	OEL TWA (mg/m³)	2 mg/m³
Northwest Territories	OEL STEL (mg/m³)	4 mg/m³
Northwest Territories	OEL TWA (mg/m³)	2 mg/m³
Ontario	OEL TWA (mg/m³)	2 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	2 mg/m³
Québec	VEMP (mg/m³)	2 mg/m³
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³
Yukon	OEL STEL (mg/m³)	4 mg/m³
Yukon	OEL TWA (mg/m³)	2 mg/m³

Limestone (1317-65-3)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m³
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica)
Nunavut	OEL STEL (mg/m³)	20 mg/m³
Nunavut	OEL TWA (mg/m³)	10 mg/m³
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³
Québec	VEMP (mg/m³)	10 mg/m³ (Limestone, containing no Asbestos and <1% Crystalline silica-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Magnesium oxide (MgO) (1309-48-4)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen

USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (fume, total particulate)
USA IDLH	US IDLH (mg/m³)	750 mg/m³ (fume)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (fume)
British Columbia	OEL STEL (mg/m³)	10 mg/m³ (respirable dust and fume)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (fume, inhalable) 3 mg/m³ (respirable dust and fume)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
New Brunswick	OEL TWA (mg/m³)	10 mg/m³ (fume)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Nunavut	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter)
Québec	VEMP (mg/m³)	10 mg/m³ (fume)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (inhalable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (inhalable fraction)
Yukon	OEL STEL (mg/m³)	10 mg/m³ (fume)
Yukon	OEL TWA (mg/m³)	10 mg/m³ (fume)

Chromium, ion (Cr6+) (18540-29-9)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 µg/m³

Kaolin (1332-58-7)		
USA ACGIH	ACGIH TWA (mg/m³)	2 mg/m³ (particulate matter containing no asbestos and <1% crystalline silica, respirable particulate matter)
USA ACGIH	ACGIH chemical category	Not Classifiable as a Human Carcinogen
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	2 mg/m³ (respirable)
British Columbia	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica-respirable particulate)
Manitoba	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
New Brunswick	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nova Scotia	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Nunavut	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Nunavut	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Northwest Territories	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Northwest Territories	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Ontario	OEL TWA (mg/m³)	2 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable)
Prince Edward Island	OEL TWA (mg/m³)	2 mg/m³ (particulate matter containing no Asbestos and

		<1% Crystalline silica, respirable particulate matter-particulate matter, respirable particulate matter)
Québec	VEMP (mg/m³)	5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m³)	4 mg/m³ (respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	2 mg/m³ (respirable fraction)
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Calcium sulfate dihydrate (13397-24-5)		
USA ACGIH	ACGIH TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust) 5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	10 mg/m³ (total dust) 5 mg/m³ (respirable dust)
Alberta	OEL TWA (mg/m³)	10 mg/m³ (Calcium sulphate)
British Columbia	OEL STEL (mg/m³)	20 mg/m³ (total)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (total dust) 3 mg/m³ (respirable fraction)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable (Calcium sulfate)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particulate matter (Calcium sulfate)
Québec	VEMP (mg/m³)	10 mg/m³ (containing no Asbestos and <1% Crystalline silica-total dust) 5 mg/m³ (containing no Asbestos and <1% Crystalline silica-respirable dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³
Yukon	OEL STEL (mg/m³)	20 mg/m³
Yukon	OEL TWA (mg/m³)	30 mppcf 10 mg/m³

Particulates not otherwise classified (PNOC) (Not applicable)		
USA ACGIH	ACGIH TWA (mg/m³)	3 mg/m³ Respirable fraction 10 mg/m³ Total Dust
USA OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Respirable fraction 15 mg/m³ Total Dust
Alberta	OEL TWA (mg/m³)	10 mg/m³ (total) 3 mg/m³ (respirable)
British Columbia	OEL TWA (mg/m³)	10 mg/m³ (nuisance dust-total dust) 3 mg/m³ (nuisance dust-respirable fraction)
Manitoba	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
New Brunswick	OEL TWA (mg/m³)	3 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, respirable fraction) 10 mg/m³ (particulate matter containing no Asbestos and <1% Crystalline silica, inhalable fraction)
Newfoundland & Labrador	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
Nova Scotia	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)

Nunavut	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Nunavut	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)
Northwest Territories	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Northwest Territories	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)
Ontario	OEL TWA (mg/m³)	10 mg/m³ (inhalable) 3 mg/m³ (respirable)
Prince Edward Island	OEL TWA (mg/m³)	10 mg/m³ (inhalable particles, recommended) 3 mg/m³ (respirable particles, recommended)
Québec	VEMP (mg/m³)	10 mg/m³ (including dust, inert or nuisance particulates-total dust)
Saskatchewan	OEL STEL (mg/m³)	20 mg/m³ (insoluble or poorly soluble-inhalable fraction) 6 mg/m³ (insoluble or poorly soluble-respirable fraction)
Saskatchewan	OEL TWA (mg/m³)	10 mg/m³ (insoluble or poorly soluble-inhalable fraction) 3 mg/m³ (insoluble or poorly soluble-respirable fraction)

8.2. Exposure Controls

Appropriate Engineering Controls: Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal Protective Equipment: Gloves. Protective clothing. Protective goggles. Face shield. Insufficient ventilation: wear respiratory protection.

Materials for Protective Clothing: Chemically resistant materials and fabrics. Corrosion-proof clothing.

Hand Protection: Wear protective gloves.

Eye and Face Protection: Chemical safety goggles and face shield.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on Basic Physical and Chemical Properties

Physical State	:	Solid
Appearance	:	White to gray powder
Odor	:	None
Odor Threshold	:	Not available
pH	:	Not available
Evaporation Rate	:	Not available
Melting Point	:	Not available
Freezing Point	:	Not available
Boiling Point	:	Not available
Flash Point	:	Not available
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not available

Lower Flammable Limit	:	Not available
Upper Flammable Limit	:	Not available
Vapor Pressure	:	Not available
Relative Vapor Density at 20°C	:	Not available
Relative Density	:	Not available
Specific Gravity	:	1.2 - 1.5
Solubility	:	Insoluble in water.
Partition Coefficient: N-Octanol/Water	:	Not available
Viscosity	:	Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: Hydrofluoric acid will react with and dissolve glass, and other silica containing material. May react exothermically with water releasing heat. Adding an acid to a base or base to an acid may cause violent reaction.

10.2. Chemical Stability: Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4. Conditions to Avoid: Direct sunlight, extremely high or low temperatures, and incompatible materials.

10.5. Incompatible Materials: Acids, ammonium salts and aluminum metal. Cement dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Cement reacts with water to form silicates and calcium hydroxide. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

10.6. Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on Toxicological Effects - Product

Acute Toxicity (Oral): Not classified

Acute Toxicity (Dermal): Not classified

Acute Toxicity (Inhalation): Not classified

LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes severe skin burns and eye damage.

Eye Damage/Irritation: Causes serious eye damage.

Respiratory or Skin Sensitization: May cause an allergic skin reaction.

Germ Cell Mutagenicity: Not classified

Carcinogenicity: May cause cancer (Inhalation).

Specific Target Organ Toxicity (Repeated Exposure): Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation).

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

Symptoms/Injuries After Inhalation: Accelerated Silicosis can occur with exposure to high concentrations of respirable crystalline silica over a relatively short period; lung lesions can appear within five years of the initial exposure. The progression can be rapid. Accelerated silicosis is similar to chronic or ordinary silicosis, except that lung lesions appear earlier and the progression is more rapid. Acute Silicosis can occur with exposures to very high concentrations of respirable crystalline silica over a very short time period, sometimes as short as a few months. The symptoms of acute silicosis include progressive shortness of breath, fever, cough and weight loss. Acute silicosis can be fatal.

Symptoms/Injuries After Skin Contact: Concrete may cause dry skin, discomfort, irritation, severe burns, and dermatitis. Unhardened concrete is capable of causing dermatitis by irritation and allergy. Concrete dust, in association with sweat and friction, can lead to skin irritation and dermatitis. Skin affected by dermatitis may include symptoms such as, redness, itching, rash, scaling, and cracking. Allergic contact dermatitis is caused by sensitization to hexavalent chromium (chromate) present in concrete. The reaction can range from a mild rash to severe skin ulcers.

Symptoms/Injuries After Eye Contact: Concrete may cause immediate or delayed irritation or inflammation. Eye contact with wet concrete can cause moderate eye irritation, chemical burns and blindness. Eye exposures require immediate first aid and medical attention to prevent significant damage to the eye.

Symptoms/Injuries After Ingestion: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

Chronic Symptoms: Causes damage to organs (lungs) through prolonged or repeated exposure (Inhalation). Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects. May cause cancer by inhalation.

11.2. Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Quartz (14808-60-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Calcium oxide (1305-78-8)	
LD50 Oral Rat	> 2000 mg/kg
LD50 Dermal Rabbit	> 2500 mg/kg

Magnesium oxide (MgO) (1309-48-4)	
LD50 Oral Rat	3870 mg/kg

Kaolin (1332-58-7)	
LD50 Oral Rat	> 5000 mg/kg
LD50 Dermal Rat	> 5000 mg/kg

Lithium carbonate (554-13-2)	
LD50 Oral Rat	525 mg/kg
LD50 Dermal Rabbit	> 3000 mg/kg
LC50 Inhalation Rat	> 2.17 mg/l/4h
ATE US/CA (dust, mist)	1.50 mg/l/4h

Quartz (14808-60-7)	
IARC Group	1
National Toxicology Program (NTP) Status	Known Human Carcinogens.
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.

Chromium, ion (Cr6+) (18540-29-9)	
IARC Group	1
OSHA Hazard Communication Carcinogen List	In OSHA Hazard Communication Carcinogen list.
OSHA Specifically Regulated Carcinogen List	In OSHA Specifically Regulated Carcinogen list.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - General: Not classified.

Calcium oxide (1305-78-8)	
LC50 Fish 1	50.6 mg/l

Chromium, ion (Cr6+) (18540-29-9)	
LC50 Fish 1	36.2 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
LC50 Fish 2	7.6 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)

Lithium carbonate (554-13-2)	
LC50 Fish 1	8.1 mg/l

12.2. Persistence and Degradability

252 Silver	
Persistence and Degradability	Not established.

12.3. Bioaccumulative Potential

252 Silver	
Bioaccumulative Potential	Not established.

Calcium oxide (1305-78-8)	
BCF Fish 1	(no bioaccumulation)

12.4. Mobility in Soil

Not available

12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste Disposal Recommendations: Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Ecology - Waste Materials: Avoid release to the environment.

SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

14.1. In Accordance with DOT Not regulated for transport

14.2. In Accordance with IMDG Not regulated for transport

14.3. In Accordance with IATA Not regulated for transport

14.4. In Accordance with TDG Not regulated for transport

SECTION 15: REGULATORY INFORMATION

15.1. US Federal Regulations

252 Silver	
SARA Section 311/312 Hazard Classes	Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity Health hazard - Respiratory or skin sensitization Health hazard - Serious eye damage or eye irritation Health hazard - Skin corrosion or Irritation

Quartz (14808-60-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Cement, portland, chemicals (65997-15-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Calcium oxide (1305-78-8)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Limestone (1317-65-3)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Magnesium oxide (MgO) (1309-48-4)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Silicic acid (H4SiO4), calcium salt (1:2) (10034-77-2)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Acetic acid ethenyl ester, polymer with ethene and ethenol (26221-27-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Chemical Data Reporting Rule, (40 CFR 711).

Kaolin (1332-58-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory

Lithium carbonate (554-13-2)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
SARA Section 313 - Emission Reporting	1 %

15.2. US State Regulations

California Proposition 65

WARNING: This product can expose you to Chromium, ion (Cr6+), which is known to the State of California to cause cancer

and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Chemical Name (CAS No.)	Carcinogenicity	Developmental Toxicity	Female Reproductive Toxicity	Male Reproductive Toxicity
Quartz (14808-60-7)	X			
Chromium, ion (Cr6+) (18540-29-9)	X	X		
Lithium carbonate (554-13-2)		X		

Quartz (14808-60-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Cement, portland, chemicals (65997-15-1)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium oxide (1305-78-8)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Limestone (1317-65-3)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Magnesium oxide (MgO) (1309-48-4)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Chromium, ion (Cr6+) (18540-29-9)
U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List
U.S. - Pennsylvania - RTK (Right to Know) List

Kaolin (1332-58-7)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Calcium sulfate dihydrate (13397-24-5)
U.S. - New Jersey - Right to Know Hazardous Substance List
U.S. - Pennsylvania - RTK (Right to Know) List

Lithium carbonate (554-13-2)
U.S. - Massachusetts - Right To Know List
U.S. - New Jersey - Right to Know Hazardous Substance List

15.3. Canadian Regulations

Quartz (14808-60-7)
Listed on the Canadian DSL (Domestic Substances List)

Cement, portland, chemicals (65997-15-1)
Listed on the Canadian DSL (Domestic Substances List)

Calcium oxide (1305-78-8)
Listed on the Canadian DSL (Domestic Substances List)

Limestone (1317-65-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

Magnesium oxide (MgO) (1309-48-4)
Listed on the Canadian DSL (Domestic Substances List)

Silicic acid (H4SiO4), calcium salt (1:2) (10034-77-2)
Listed on the Canadian DSL (Domestic Substances List)

Acetic acid ethenyl ester, polymer with ethene and ethenol (26221-27-2)
Listed on the Canadian DSL (Domestic Substances List)

Kaolin (1332-58-7)
Listed on the Canadian DSL (Domestic Substances List)

Calcium sulfate dihydrate (13397-24-5)
Listed on the Canadian DSL (Domestic Substances List)

Lithium carbonate (554-13-2)
Listed on the Canadian DSL (Domestic Substances List)

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Date of Preparation or Latest Revision : 08/12/2019

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.

GHS Full Text Phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Comb. Dust	Combustible Dust
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Corr. 1C	Skin corrosion/irritation Category 1C
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 1	Specific target organ toxicity (repeated exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer

H372	Causes damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

NA GHS SDS 2015 (Can, US)

SAFETY DATA SHEET

1. Identification

Product identifier **Hercules Plumber's Caulk –Silicone White and Clear**

Other means of identification

Product code 7357E

Synonyms Part Numbers: White – 25676, Clear - 25686

Recommended use Caulk and sealant for use around tubs, sinks and other plumbing applications.

Recommended restrictions Do not us on applications where product will be submerged under water.

Manufacturer/Importer/Supplier/Distributor information

Company Name HCC Holdings, Inc. an Oatey Affiliate

Address 4700 West 160th Street
Cleveland, OH 44135

Telephone 216-267-7100

E-mail info@oatey.com

Transport Emergency Chemtrec 1-800-424-9300 (Outside the US 1-703-527-3887)

Emergency First Aid 1-877-740-5015

Contact person MSDS Coordinator

2. Hazard(s) identification

Physical hazards Not Classified.

Health hazards Skin Corrosion/Irritation Cat 2

OSHA defined hazards Not Classified.

Label elements

Hazard symbol

Signal word Warning

Hazard statement Causes Skin Irritation

Precautionary statement

Prevention Wear protective gloves. Wash hands thoroughly after handling.

Response IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention.

Storage Not applicable.

Disposal Not applicable.

Hazard(s) not otherwise classified (HNOC) Generates acetic acid during cure. Uncured product is irritating to eyes, skin, and respiratory system. Generates acetic acid during cure.

3. Composition/information on ingredients

Mixtures

Chemical name	CAS number	%
Silanetriol, 1-methyl-, 1,1,1-triacetate	4253-34-3	1 - 5
Distillates (petroleum), hydrotreated middle	64742-46-7	10 - 30
Titanium Dioxide (White Sealant Only)	13463-67-7	0 – 5
Dimethyl siloxane, hydroxyl terminated	70131-67-8	70 - 90

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-aid measures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Eye contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/effects, acute and delayed	Skin or eye irritation.
Indication of immediate medical attention and special treatment needed.	Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
General information	Note to physician, treat symptomatically.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO2, alcohol-resistant foam or water spray (fog).
Unsuitable extinguishing media	water jet
Specific hazards arising from the chemical	No specific fire or explosion hazard.
Special protective equipment and precautions for firefighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire fighting equipment/instructions	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Use water spray to keep fire-exposed containers cool. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Specific methods	None
General fire hazards	None

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures	Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment. If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Methods and materials for containment and cleaning up	Large Spills: Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal. Small Spills: Move containers from spill area. Vacuum or sweep up material and place in a

designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see section 1 of SDS for emergency contact information and section 13 of SDS for waste disposal.

Environmental precautions Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

7. Handling and storage

Precautions for safe handling Put on appropriate personal protective equipment (see section 8 of SDS). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure controls/personal protection

Occupational exposure limits

US. ACGIH Threshold Limit Values

Components	Type	Value
Petroleum Distillate	TWA	5 mg/m3

US OSHA Permissible Exposure Limits

Components	Type	Value
Petroleum Distillate	TWA	5 mg/m3

Biological limit values No Biological limits.

Appropriate engineering controls No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures, such as personal protective equipment

Eye/face protection Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts.

Skin protection

Hand Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Other Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Thermal hazards None.

General hygiene considerations Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical and chemical properties

Appearance

Physical state	Solid.
Form	Paste
Color	White or translucent.
Odor	Acetic acid/vinegar smell
Odor threshold	Not available.
pH	Not applicable.
Melting point/freezing point	Not applicable.
Initial boiling point and boiling range	Not determined
Flash point	> 199 °F (> 93.3 °C)
Upper/lower flammability or explosive limits	
Flammability limit – lower (%)	Not available
Flammability limit – upper (%)	Not available
Explosive limit - lower (%)	Not available
Explosive limit - upper (%)	Not available
Vapor pressure	Not applicable
Vapor density	Not applicable
Relative density	1.04 – 1.09
Solubility(ies)	
Solubility (water)	Not available
Partition coefficient (n-octanol/water)	Not available
Auto-ignition temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Other information	
VOC (Weight %)	36 g/L (< 2.8% by weight)

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical stability	The product is stable.
Possibility of hazardous reaction	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No specific data.
Incompatible materials	No specific data.
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on likely routes of exposure

Inhalation	Acute Toxicity estimates: > 10 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: Calculation.
Skin contact	No known significant effects or critical hazards.
Eye contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Symptoms related to the physical, chemical and toxicological characteristics	Eye – Pain, irritation, watering Inhalation – No specific data. Skin Contact – Irritation, redness Ingestion – No specific data.

Information on likely routes of exposure
Acute Toxicity

Components	Species	Results
Product		
Skin	Rabbit	Moderate Irritant
Eyes	Rabbit	Mild Irritant

Skin corrosion/irritation Moderate Irritant.

Serious eye damage/eye irritation	Mild Irritant.
Respiratory or skin sensitization	
Respiratory sensitization	Not considered a respiratory irritant
Skin sensitization	This product is not expected to cause skin irritation.
Germ cell mutagenicity	No specific data
Carcinogenicity	Sufficient evidence of carcinogenicity in inhalation studies with animals for titanium dioxide exist. However, due to the titanium dioxide being inextricably bound in the silicone matrix, the likelihood of exposure is minimal.
IARC	Titanium Dioxide – 13463-67-7 Group 2B: Possibly carcinogenic to humans.
OSHA	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino- gen by OSHA.
NTP	No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcino- gen by OSHA.
Reproductive toxicity	No known significant effects or critical hazards.
Specific target organ toxicity	
Single exposure	Contains Silanetriol, 1-methyl-, 1,1,1-triacetate. This is a Category 3, respiratory irritant.
Repeated exposure	
Aspiration Hazard	Contains Distillates (petroleum), hydrotreated – Which is a category 1 Aspiration Hazard. The likely hood of aspirating the product in this form is very low due to the high viscosity.
Chronic effects	Not Classified.
Further information	

12. Ecological information

Ecotoxicity

Product/ingredient name	Results	Species	Exposure
Petroleum Distillates			
	Acute LC50 2,900 µg/l Fresh water	Fish - Rainbow trout,Donaldson trout	96 h
	Acute LC50 2,200 µg/l Fresh water	Fish - Bluegill	96 h

Persistence and degradability	Not Available.
Bio accumulative potential	Not Available.
Mobility in soil	Not available.
Other adverse effects	No known significant effects of critical hazards.

13. Disposal considerations

Disposal instructions	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.
Local disposal regulations	Not Applicable
Hazardous waste code	Not Applicable

14. Transportation information

DOT	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard	

classes	
Packing group	
IATA	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
IMDG	Not Regulated
UN number	
UN Proper Shipping Name	
Transportation Hazard classes	
Packing group	
Environmental hazards	
Marine polluntant	

15. Regulatory information

U.S. Federal regulations

TSCA 12(b) - Chemical export notification: None required.
TSCA 5(a)2 - Final significant new use rules: Not listed
TSCA 5(a)2 - Proposed significant new use rules: Not listed
TSCA 5(e) - Substances consent order: Not listed

SARA 311/312

Classification Immediate (acute) health hazard,

US state regulations

California Prop 65 This product does not contain any chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
.

Canada

WHMIS (Canada) Class D-2B: Material causing other toxic effects (Toxic).

International regulations

Country(s) or region	Inventory Name	On inventory list (yes/no)*
Canada	DSL/NDSL	Yes*
United States & Puerto Rico	Toxic Substances Control Act (TSCA 8b)	Yes

* At least one component is not listed in the DSL, but all such components are listed in the NDSL.

16. Other information, including date of preparation or last revision

Issue Date	12-May-2015
Revision Date	-
Version #	01
HMIS Rating	Health: 1 Flammability: 1 Physical Hazards: 0
Disclaimer	HCC Holdings Inc. an Oatey Affiliate cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.

TECHNICAL DATA SHEET

BACKSTOP® NTX

A high performance, polymer-based, noncementitious water-resistive membrane and air barrier

PRODUCT DESCRIPTION

Backstop® NTX is a flexible, polymer- based, noncementitious, air/water-resistive barrier, which resists water penetration, eliminates air infiltration, and is vapor permeable. It is classified as a Class III vapor retarder over vertical above grade walls. Backstop NTX is available in two versions:

- Backstop NTX – Texture is applied using a trowel, roller, or texture spray equipment.
- Backstop NTX – Smooth is applied by roller, texture spray equipment, or airless spray equipment.

BASIC USES

Backstop NTX – Texture and Smooth are designed for use with Dryvit EIF Systems as well as other building cladding systems. When used with the Dryvit AquaFlash® System, Dryvit Backstop Flash and Fill, or Dymonic® 100. Backstop NTX provides an effective air barrier and water-resistive membrane for acceptable substrates.

FEATURES & BENEFITS

- Cold Weather Application 25 °F (-4 °C)
- Includes a reinforcing fabric at sheathing joints
- Bonds to most construction materials
- Fluid applied
- Fast drying
- Can be exposed for 180 days
- Ensures a continuous film barrier across transitions
- No need for multiple products
- Easy to use
- Not subject to tear off or damage from wind

PROPERTIES

Working Time: Backstop NTX – Texture and Smooth are noncementitious, water-based materials and will not set-up in the pail. Keep pail covered when not in use to minimize skinning.

Drying Time: The drying time is dependent upon the air temperature, wind conditions and relative humidity. Under average drying conditions [70 °F (21 °C), 55% R.H.], Backstop NTX will be dry to the touch within 2 hours and cure in 6 hours.

Testing Information: For test data refer to the chart included with this document.

Application Procedure: For complete application instructions, refer to, DS181.

Job Conditions: Air and surface temperature for application of Backstop NTX must be from 25 °F (-4 °C) minimum to 100 °F (38 °C) maximum and must remain so for a minimum of 12 hours.

Temporary Protection: Shall be provided at all times until membrane is dry and shall not be exposed to weather for longer than 180 days prior to installation of the specified cladding.

Acceptable Substrates:

All sheathing substrate joints must be treated with Dryvit Grid Tape and Backstop NTX - Texture prior to application over the full sheathing surface. Acceptable substrates include:

a. Core treated exterior grade gypsum sheathing meeting ASTM C 1396 (formerly C 79).
b. Core treated exterior grade gypsum sheathing with fiberglass mat facers meeting ASTM C 1177.
c. Exterior fiber reinforced cement or calcium silicate boards.
d. APA Exterior or Exposure 1 Rated Plywood, Grade C-D or better, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.
e. APA Exterior Grade Fire Retardant Treated Plywood, nominal 1/2 in (12.7 mm) minimum, installed with the C face out.

f. APA Exposure 1 Rated OSB, nominal 1/2 in (12.7 mm) minimum. Note: NTX – Texture is not recommended for the field of wall application over OSB.
g. Unpainted, unsealed concrete and CMU.

SURFACE PREPARATION

- Sheathing board gaps shall not exceed 1/4 in (6.4 mm) and the surface must be flat within 1/4 in (6.4 mm) in any 4 ft (1.2 m) radius. CMU mortar joints shall be struck flush (tooled mortar joints and heavily textured CMU [not split faced] shall be skimmed with Dryvit Genesis®, Genesis® DM or Genesis® DMS) prior to application of the Backstop NTX Texture. CMU shall be clean, unpainted, and free of efflorescence. All substrates shall be dry and free of foreign materials such as dirt, dust, oil, paint, wax, water repellants or other materials that inhibit adhesion.

- Concrete: Shall have cured a minimum of 28 days prior to application of the Backstop NTX. If efflorescence, form release agents or curing compounds are present on the concrete surface, the surface shall be thoroughly washed with muriatic acid and flushed to remove residual acid. All projections shall be removed, and small voids filled with Dryvit Primus®, Primus®DM, Genesis®, or Genesis®DM mixture (see product data sheets for mixing and application).

- All substrate transitions and gaps between openings and penetration components such as windows, doors, electrical boxes, etc., shall be treated with Backstop NTX – Texture or Dryvit AquaFlash®. Any sealants used shall be tested for compatibility and comply with ASTM C 920.

- All opening terminations, roof/wall intersections, transitions between different materials, chimneys decks, roof, windows, etc., must be properly flashed, wrapped, and sealed as required by the building code, good construction practice and/or Dryvit Backstop NTX Application Instructions, DS181.

MIXING

Material is ready for use after an initial spin-up using a drill with paddle mixer. DO NOT ADD CEMENT.

APPLICATION

Backstop NTX Application: Refer to the usage/application chart for the appropriate use and application technique for a given substrate.

PACKAGING

Backstop NTX – Texture is supplied in 5 gal (19 L) pails.
Backstop NTX – Backstop NTX Smooth is supplied in a 5 gal (19 L) pail or in a 55 gallon (280 L) drum.

COVERAGE

Backstop NTX – Texture and Smooth are supplied in a 5 gal (19 L) pail.
Coverage will vary, depending on application method and substrate. For guidance refer to the usage chart included in this document.

STORAGE

Backstop NTX must be stored at a minimum of 40 °F (4 °C) and a maximum of 100 °F (38 °C) in tightly sealed containers protected from weather and out of direct sunlight.

The shelf life is 2 years from date of manufacture when properly stored in unopened pails.

CAUTIONS & LIMITATIONS

- Apply to acceptable substrates only.
- OSB – Backstop NT – Texture is not recommended for use in the field of OSB.
- CMU - Application over unpainted concrete and
  CMU requires one of the following:
  a. One coat of Backstop NTX- Texture, spray or roller-applied.
  b. One coat of Backstop NTX – Texture, trowel applied.
- Shall not be used below grade or on surfaces that will be subjected to water immersion.
- Shall not be used to treat holes or sheathing joints exceeding 6.4 mm (1/4 in).

- When used beneath Portland cement stucco or adhered stone products, paper backed lath shall be installed over Backstop NTX as a slip sheet.
- Backstop NTX can be exposed to weather up to 180 days to provide sufficient time for installation of the cladding. Inspect the surface of the Backstop NTX for any damage, cracks, voids or other detrimental conditions and repair prior to installation of the cladding. The Backstop NTX surface shall be clean, dry and free of any detrimental conditions that may affect adhesion.

CLEAN UP

Clean tools with water while material is still wet.

TECHNICAL AND FIELD SERVICES

Available on request.

Backstop NTX (BSNTX) – Texture, Smooth, and Spray Usage/Application Chart

PROPERTY/APPLICATION	APPROX. COVERAGE PER PAIL	APPROX. COVERAGE PER DRUM
EXTERIOR GRADE GYPSUM SHEATHING - JOINTS[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel or Spray	800 ft^2 (75 m^2)	
Dymonic 100 – Putty Knife	308' of joint per gallon for a ¼'' x ¼'' (6 mm x 6mm) joint	
Backstop Flash and Fill – Putty Knife	20 oz (.59 l) SSG covers 15-17 ft2 (1.39 – 1.58 m2) at 12-15 wet mils (0.30 – 0.38 mm)	
EXTERIOR GRADE GYPSUM SHEATHING - FACE[e]		
BSNTX Texture – Trowel FoamPRO #58 Roller[b], or Texture Sprayer	250-300 ft^2 (23-28 m^2)	
BSNTX Smooth [c,g] – ½ in (12.7 mm) Nap Roller	800 ft^2 (75 m^2)	
BSNTX Smooth [c,g] – Airless Spray	500-600 ft^2 (46-56 m^2)	5,000 – 6,000 ft^2 (465-557 m^2)
FIBERGLASS FACE EXTERIOR GYPSUM SHEATHING - JOINTS[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
FIBERGLASS FACE EXTERIOR GYPSUM SHEATHING - FACE[e]		
BSNTX Texture – Trowel	250-300 ft^2 (23-28 m^2) [includes joints]	
BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	450-500 ft^2 (42-46 m^2)	
BSNTX Smooth[g] - Airless Sprayer	500-600 ft^2 (46-56 m^2)	5,000 – 6,000 ft^2 (465-557 m^2)
Exposure 1, Exterior Grade, and Fire Retardant Treated Plywood and Exterior Cement Board - Joints		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
Exposure 1, Exterior Grade, and Fire Retardant Treated Plywood and Exterior Cement Board - Face		
BSNTX Texture – Trowel, FoamPRO #58 Roller or Texture Sprayer	250-300 ft^2 (23-28 m^2)	
BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	500-600 ft^2 (46-56 m^2)	
BSNTX Smooth[g] - Airless Sprayer	500-600 ft^2 (46-56 m^2)	
APA Exposure 1 Rated Oriented Strand Board (OSB) - Joints[a]		
BSNTX Texture – Trowel	300 lin. Ft (91 m)	
BSNTX Smooth – Trowel	650 ft^2 (60 m^2)	
APA Exposure 1 Rated Oriented Strand Board (OSB) - Face[e]		

BSNTX Smooth[g] - ½ in (12.7 mm) Nap Roller	350-400 ft² (33-37 m²)	
BSNTX Smooth[g] - Airless Spray	350-400 ft² (33-37 m²)	3,500-4,000 ft² (325-372 m²)
Concrete and Masonry [d,g]		
BSNTX Texture - Trowel[f]	200-250 ft² (19-23 m²)[f]	
BSNTX Smooth – FoamPRO #58 Roller or Texture Sprayer	200-250 ft² (19-23 m²)[f]	
BSNTX Smooth[g] - Airless Spray	300-500 ft (28-46m²)	3,000-5,000 ft (279-465 m²)

[a] Tape the joints with Dryvit Grid Tape when using BSNTX Texture and with Aquaflash Mesh when using Backstop NTX Smooth – BSNTX Texture at screw heads.

[b] Up to 1 pint (16 oz) of water may be added to a 60 lb pail of Backstop NTX Texture for roller or spray applications only. The FoamPRO #58 roller cover (FoamPRO Mfg., Inc., www.foampromfg.com)is available at home supply stores.

[c] Due to variations in types of concrete/masonry, apply a 6 ft x 6 ft test area with coverage as indicated in the chart, before proceeding with the entire job. If there are voids in the substrate, particularly at the mortar joints, the job should be parged with Genesis*, 24 hours prior to BSNTX Texture application. Backstop NTX shall NOT be used as a skim coat for parging CMU joints or heavy textured units.

[d] Backstop NTX Texture (with up to 1 pint water addition per 60 lb. pail) or Smooth may be sprayed and backtrowelled/backrolled.

[e] Coverage may vary depending on the texture and porosity of the substrate. Coverage assumes a smooth, dense surface.

[f] Backstop NTX should be applied at the recommended coverage rates to form a continuous film free of voids, pinholes or other discontinuities. The following approximate mil thicknesses are recommended:

Backstop NTX Texture	13 DFT	20* WFT
Backstop NTX Smooth	9 DFT	14*

*Based on volume solids

TYPICAL PHYSICAL PROPERTIES

PROPERTY	TEST METHOD	CRITERIA	RESULTS
Surface Burning Characteristics	ASTM E 84	Flame Spread <25 Smoke Developed <450	Passed
Flexibility	ASTM D 522 Method B	No ICC or ANSI/EIMA Criteria	No cracking at 2 mm diameter
Water Vapor Transmission	ASTM E 96 Procedure B*	Vapor Permeable	Vapor Permeable
Freeze-Thaw Resistance	ASTM E 2485 Method B*	No deleterious effects after 10 cycles[1]	Passed - 10 cycles: No deleterious effects[1]
Water Resistance	ASTM D 2247*	14 days exposure No deleterious effects[1]	No deleterious effects[1] after 14 days exposure
Tensile Strength and Elongation	ASTM D 2370	No ICC or ANSI/EIMA Criteria	Tensile strength:160 psi Elongation: 16.8%
Wind Driven Rain	Fed TT-C-555	No ICC or ANSI/EIMA Criteria	No water penetration
Nail Sealability	ASTM D 1970	No ICC or ANSI/EIMA Criteria	Passed ABAA Criteria
Air Leakage	ASTM E 283	No ICC or ANSI/EIMA Criteria	0.002 cfm/ft² (0.01 l/sec/m²)
Air Permeance	ASTM E 2178	No ICC or ANSI/EIMA Criteria	$1.2x10^{-4}$ cfm/ft² @ 1.6psf (0.0006 l/s/m² @ 75Pa)
Air Barrier Assembly	ASTM E 2357	No ICC or ANSI/EIMA Criteria	<0.001 cfm/ft² @ 6.24 psf (0.05 l/sec m² @300 Pa)
Structural Performance	ASTM E 1233 Procedure A*	Minimum 10 positive cycles at 1/240 deflection; No cracking in field, at joints or interface with flashing	Passed
Racking	ASTM E 72*	No cracking in field; at joints or interface with flashing	Passed
Restrained Environmental	ICC-ES Procedure*	5 cycles; No cracking in field; at joints or interface with flashing.	Passed
Water Penetration	ASTM E 331*	No water penetration beyond the inner-most plane of the wall after 15 minutes at 2.86 psf (137 kPa)	Passed
Tensile Bond	ASTM C 297/E 2134*	ICC and ANSI/EIMA 99-A-2001 Minimum 15 psi (104 kPa)	Substrates: Minimum 19 psi (131 kPa) Flashing: Minimum 431 psi (2970 kPa)
Weathering			
UV Exposure	ASTM D 2898 Method B*	210 hours of exposure	Passed
Accelerated Aging	ICC ES Procedure*	25 cycles of wetting and drying	Passed
Hydrostatic Pressure Test	AATCC 127*	21.6 in (549 mm) water column for 5 hours	Passed
VOC	Regulatory	Meets South Coast Air Quality Management District (SCAQMD) Requirements	Less than 5 g/L
Volume Solids	Calculated	N/A	Smooth: 71% Texture: 75%
Weight/Gal	Calculated	N/A	Smooth: 12 lb/gal Texture: 13 lb/gal

***** ASTM E 2570 Standard Test Method for Evaluating Water-Resistive Barrier (WRB) Coatings Used Under Exterior Insulation and Finish Systems (EIFS) or EIFS with Drainage; also referred to as AC212 – Acceptance Criteria for Water-Resistive Coatings Used as Water- Resistive Barriers over Exterior Sheathing 1. No cracking, checking, rusting, crazing, erosion, blistering, peeling, or delamination when viewed under 5x magnification

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ATTACHMENT 4
Data Usability Summary Report

Data Usability Summary Report

Project Name: 340 Myrtle Ave, Brooklyn, NY

Project Description: Indoor Air Sampling

Sample Date: March 14, 2025

Analytical Laboratory: Pace – Mansfield, MA

Validation Performed by: Robert Asztalos

Validation Reviewed by: Gabrielle Davis

Validation Date: May 20, 2025

H & A of New York Engineering and Geology, LLP prepared this Data Usability Summary Report (DUSR) to summarize the review and validation of the analytical results for the Sample Delivery Group (SDG) listed. This DUSR is organized into the following sections:

1. **Sample Delivery Group Number L2514968**
2. **Explanations**
3. **Glossary**
4. **Abbreviations**
5. **Qualifiers**

References

This data validation and usability assessment was performed per the guidance and requirements established by the United States Environmental Protection Agency (USEPA) using the following reference materials:

- Analysis of Volatile Organic Compounds (VOCs) in Air Contained in Canisters by Method TO-15.

Data reported in this sampling event were reported to the laboratory reporting limit (RL).

Sample data were qualified in accordance with the laboratory's standard operating procedures (SOPs). The results presented in each laboratory report were found to be compliant with the data quality objectives (DQOs) for the project and are therefore usable; any exceptions are noted in the following pages and listed below.

All results are usable with no exceptions noted.

1. Sample Delivery Group Number L2514968

1.1 SAMPLE MANAGEMENT

This DUSR summarizes the review of SDG number L2514968 dated March 28, 2025.

Samples were collected, preserved, and shipped following standard chain of custody (COC) protocols. Samples were also received appropriately, identified correctly, and analyzed according to the COC. Issues noted with sample management are listed below:

- Custody seals were not used on the sample boxes.
- Sample L2514968-01 has a flow controller ID of 03918 reported on the COC, but the laboratory reports a flow controller ID of 0398.

Analyses were performed on the following samples:

Sample ID	Sample Type	Lab ID	Sample Date	Matrix	Methods
AA-01_20250314	N	L2514968-01	03/14/2025	AA	A, B
IA-01_20250314	N	L2514968-02	03/14/2025	IA	A, B
IA-02_20250314	N	L2514968-03	03/14/2025	IA	A, B
IA-03_20250314	N	L2514968-04	03/14/2025	IA	A, B
IA-04_20250314	N	L2514968-05	03/14/2025	IA	A, B
IA-05_20250314	N	L2514968-06	03/14/2025	IA	A, B

Method Holding Times			
A	TO15	Volatile Organic Compounds (VOCs) in Air	30 days for air, unpreserved
B	TO15SIM	Volatile Organic Compounds (VOCs) in Air - Selected Ion Monitoring (SIM) Mode	30 days for air, unpreserved

1.2 CASE NARRATIVE

The laboratory report case narratives included the following issue:

- L2514968-05D canister vacuum measured on receipt at the laboratory was > 15 inches of mercury (in. Hg). Prior to sample analysis, the canisters were pressurized with UHP nitrogen in order to facilitate the transfer of sample to the gas chromatograph. The addition of nitrogen resulted in a ~2.0x dilution of the samples. No qualification of the reported results is recommended.

1.3 HOLDING TIMES/PRESERVATION

The samples arrived at the laboratory and were prepared and analyzed within the holding time and preservation criteria specified per method protocol.

1.4 REPORTING LIMITS AND SAMPLE DILUTIONS

All sample dilutions were reviewed and found to be justified. Samples collected in Summa canisters are pressurized by the laboratory, resulting in a ~2x dilution.

1.5 SURROGATE RECOVERY COMPLIANCE

Refer to Section E 1.1. The percent recovery (%R) for each surrogate compound added to each project sample was determined to be within the laboratory-specified quality control (QC) limits.

1.6 LABORATORY CONTROL SAMPLES

Refer to Section E 1.2. Compounds associated with the laboratory control sample (LCS) analyses associated with client samples exhibited recoveries within the specified limits, with the following exceptions:

Sample Type	Method	Batch ID	Analyte	%R	Qualifier	Affected Samples
LCS	TO-15	WG2046188-3	Benzyl Chloride	132%	J/None	None, samples are non-detect (ND)
LCS	TO-15	WG2046188-3	Dibromochloromethane	138%		
LCS	TO-15	WG2046188-3	4-Ethyltoluene	141%		
LCS	TO-15	WG2046188-3	Bromoform	140%		

1.7 BLANK SAMPLE ANALYSIS

Refer to Section E 1.3. Method blank samples had no detections, indicating that no contamination from laboratory activities occurred.

1.8 DUPLICATE SAMPLE ANALYSIS

Refer to Section E 1.4. The laboratory did not analyze any laboratory duplicates as per the method or laboratory SOP.

No field duplicates were collected in this dataset.

1.9 PRECISION AND ACCURACY

Refer to Section E 1.5. Where required by the method, some measurement of analytical accuracy and precision was reported for each method with the site samples, with the following exceptions:

- No precision was reported for USEPA TO-15 for this SDG.

1.10 CLEAN CANISTER CERTIFICATION

The canisters used for the TO-15 and TO-15 SIM sample collection were certified-clean by individual can analysis prior to sampling to ensure that no target analytes were present. These analysis sheets were reviewed, and no target analytes were detected in the laboratory-provided canisters.

1.11 CANISTER PRESSURE CHECK

Analysis of canister integrity during sampling, including verification that initial canister pressure is less than absolute vacuum (at standard temperature [0 degrees Celsius (°C)], absolute vacuum is measured at -29.92 in. Hg), to determine potential for bias in the sample result in the event that either constituents of concern may be present within the sample canister prior to sample collection, or that soil vapor results may be diluted if a portion of the sample canister volume contains vapor without the specified constituents of concern. Percent relative error should be less than 20%. The canister pressures were within specified limits.

1.12 SYSTEM PERFORMANCE AND OVERALL ASSESSMENT

The results presented in this report were found to comply with the DQOs for the project and the guidelines specified by the analytical method. Based on the review of this report, the data are usable and acceptable, as no data was rejected. No qualifiers were applied to any data in this report.

2. Explanations

The following explanations include more detailed information regarding each of the sections in the DUSR above. Not all sections in the Explanations are represented:

- E 1.1 Surrogate Recovery Compliance
  - Surrogates, also known as system monitoring compounds, are compounds added to each sample prior to sample preparation to determine the efficiency of the extraction procedure by evaluating the %R of the compounds.
- E 1.2 Laboratory Control Samples
  - The LCS/laboratory control sample duplicate (LCSD) analyses are used to assess the precision and accuracy of the analytical method independent of matrix interferences.
- E 1.3 Blank Sample Analysis
  - Method blanks are prepared by the analytical laboratory and analyzed concurrently with the project samples to assess possible laboratory contamination.
- E 1.4 Laboratory and Field Duplicate Sample Analysis
  - The laboratory duplicate sample analysis is used by the laboratory at the time of the analysis to demonstrate acceptable method precision. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
  - The field duplicate sample analysis is used to assess the precision of the field sampling procedures and analytical method. The RPD or absolute difference was evaluated for each duplicate sample pair to monitor the reproducibility of the data.
- E 1.5 Precision and Accuracy
  - Precision measures the reproducibility of repetitive measurements. In a laboratory environment, this will be measured by determining the RPD found between a primary and a duplicate sample. This can be an LCS/LCSD pair, a MS/MSD pair, a laboratory duplicate performed on a site sample, or a field duplicate collected and analyzed concurrently with a site sample.
  - Accuracy is a statistical measurement of the correctness of a measured value and includes components of random error (variability caused by imprecision) and systematic error. In a laboratory environment, this will be measured by determining the %R of certain spiked compounds. This can be assessed using LCS, blank spike (BS), MS, and/or surrogate recoveries.

3. Glossary

*Analyte names may be abbreviated for simplicity. Please reference the laboratory report for the full analyte name.
Not all of the following symbols, acronyms, or qualifiers occur in this document.

- Sample Types:
  - EB Equipment Blank Sample
  - FB Field Blank Sample
  - FD Field Duplicate Sample
  - N Primary Sample
  - TB Trip Blank Sample
- Units:
  - ng/kg nanograms per kilogram
  - µg/L micrograms per liter
  - µg/m3 micrograms per cubic meter
  - mg/kg milligrams per kilogram
  - mg/L milligrams per liter
  - ppbv/v parts per billion volume/volume
  - pCi/L picocuries per liter
  - pg/g picograms per gram
  - pg/L picograms per liter
- Matrices:
  - AA Ambient Air
  - GS Soil Gas
  - GW/WG Groundwater
  - IA Indoor Air
  - SE Sediment
  - SO Soil
  - SSV Sub-slab Vapor
  - ST Solid Waste
  - WM Stormwater
  - WQ Water Quality control matrix
  - WS Surface Water
  - WW Waste Water
- Table Footnotes:
  - NA Not applicable
  - ND Non-detect
  - NR Not reported
- Common Symbols:
  - % percent
  - < less than
  - ≤ less than or equal to
  - > greater than
  - ≥ greater than or equal to
  - = equal
  - °C degrees Celsius
  - ± plus or minus
  - ~ approximately
  - x times (multiplier)
- Fractions:
  - N Normal (method cannot be filtered)
  - D Dissolved (filtered)
  - T Total (unfiltered)

4. Abbreviations

%D	Percent Difference
%R	Percent Recovery
%RSD	Percent Relative Standard Deviation
%v/v	Percent volume by volume
2s	2 sigma
4,4-DDT	4 4-dichlorodiphenyltrichloroethane
Abs Diff	Absolute Difference
amu	atomic mass unit
BPJ	Best Professional Judgement
BS	Blank Spike
CCB	Continuing Calibration Blank
CCV	Continuing Calibration Verification
CCVL	Continuing Calibration Verification Low
COC	Chain of Custody
COM	Combined Isotope Calculation
Cr (VI)	Hexavalent Chromium
CRI	Collision Reaction Interface
DoD	Department of Defense
DQO	data quality objective
DUSR	Data Usability Summary Report
EIS	Extraction Internal Standard
EMPC	Estimated Maximum Possible Concentration
FBK	Field Blank Contamination
FDP	Field Duplicate
GC	Gas Chromatograph
GC/MS	Gas Chromatography/Mass Spectrometry
GPC	Gel Permeation Chromatography
H_2	Hydrogen gas
HCl	Hydrochloric Acid
ICAL	Initial Calibration
ICB	Initial Calibration Blank
ICP/MS	Inductively Coupled Plasma/Mass Spectrometry
ICV	Initial Calibration Verification
ICVL	Initial Calibration Verification Low
IPA	Isopropyl Alcohol
LC	Laboratory Control
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MBK	Method Blank Contamination
MDC	Minimum Detectable Concentration
MDL	Laboratory Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NA	not applicable
ND	Non-Detect
NFG	National Functional Guidelines
NH_3	Ammonia
NYSDEC	New York State Department of Environmental Conservation
PAH	Polycyclic Aromatic Hydrocarbon
PCB	Polychlorinated Biphenyl
PDS	Post-Digestion Spike
PEM	Performance Evaluation Mixture
PFAS	Per- and Polyfluoroalkyl Substances
PFBA	Perfluorbutanoic Acid
PFD	Perfluorodecalin
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane sulfonate
PFPeA	Perfluoropentanoic Acid
QAPP	Quality Assurance Project Plan
QC	Quality Control
QSM	Quality Systems Manual
R^2	R-squared value
Ra-226	Radium-226
Ra-228	Radium-228
RESC	Resolution Check Measure
RL	Laboratory Reporting Limit
RPD	Relative Percent Difference
RRF	Relative Response Factor
RT	Retention Time
SAP	Sampling Analysis Plan
SDG	Sample Delivery Group
SIM	Selected ion monitoring
SOP	Standard Operating Procedure
SPE	Solid-Phase Extraction
SVOC	Semi-Volatile Organic Compound
TCLP	Toxicity Characteristic Leaching Procedure
TIC	Tentatively Identified Compound
TKN	Total Kjeldahl Nitrogen
TPH	Total Petroleum Hydrocarbon
TPU	Total Propagated Uncertainty
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound
WP	Work Plan

5. Qualifiers

The qualifiers below are from the USEPA National Functional Guidelines and the data in the DUSR may contain these qualifiers:

- Concentration (C) Qualifiers:

  U — The compound was analyzed for but not detected. The associated value is either the compound quantitation limit if not detected by the analytical instrument or could be the reported or blank concentration if qualified by blank contamination. This can also be displayed as less than the associated compound quantitation limit (<RL or <MDL), or "ND".

  B — The compound was found in the sample and its associated blank. Its presence in the sample may be suspect.

- Quantitation (Q) Qualifiers:

  E — The compound was quantitated above the calibration range.

  D — The concentration is based on a diluted sample analysis.

- Validation Qualifiers:

  J — The compound was positively identified; however, the associated numerical value is an estimated concentration only.

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

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

  J/UJ — as listed in exception tables J applies to detected data and UJ applies to non-detected data as reported by the laboratory.

  UJ — The compound was not detected. The reported sample quantitation limit is approximate.

  NJ — The analysis indicated the presence of a compound for which there is presumptive evidence to make a tentative identification; the associated numerical value is an estimated concentration only.

  R — The sample results were rejected as unusable; the compound may or may not be present in the sample.

  S — Result is suspect. See DUSR for details.

References

1. United States Environmental Protection Agency, 2014. Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15, SOP NO. HW-31, Revision 6. June.