458 EAST 99th STREET
KINGS COUNTY
BROOKLYN, NEW YORK

Final Engineering Report

NYSDEC Site Number: C224254

Prepared for:
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Brooklyn, New York 11236

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SEPTEMBER 2025

CERTIFICATIONS

I, Noelle Clarke, P.E, am currently a registered professional engineer licensed by the State of New York, I had primary direct responsibility for implementation of the remedial program activities, and I certify that the Remedial Action Work Plan was implemented and that all construction activities were completed in substantial conformance with the NYSDEC-approved Remedial Action Work Plan.

I certify that the data submitted to the NYSDEC with this Final Engineering Report demonstrates that the remediation requirements set forth in the Remedial Action Work Plan and in all applicable statutes and regulations have been or will be achieved in accordance with the time frames, if any, established for the remedy.

I certify that all use restrictions, Institutional Controls, Engineering Controls, and/or any operation and maintenance requirements applicable to the Site are contained in an environmental easement created and recorded pursuant ECL 71-3605 and that all affected local governments, as defined in ECL 71-3603, have been notified that such easement has been recorded.

I certify that a Site Management Plan has been submitted for the continual and proper operation, maintenance, and monitoring of all Engineering Controls employed at the Site, including the proper maintenance of all remaining monitoring wells, and that such plan has been approved by the NYSDEC.

I certify that all documents generated in support of this report have been submitted in accordance with the DER's electronic submission protocols and have been accepted by the NYSDEC.

I certify that all data generated in support of this report have been submitted in accordance with the NYSDEC's electronic data deliverable and have been accepted by the NYSDEC.

I certify that all information and statements in this certification form are true. I understand that a false statement made herein is punishable as a Class "A" misdemeanor, pursuant to Section 210.45 of the Penal Law. I, Noelle Clarke, P.E., of Roux Environmental Engineering and Geology D.P.C. located at 209 Shafter St, Islandia, New York 11749, am certifying as Owner's Designated Site Representative for the Site.

Noelle M. Clarke, P.E.	9/12/2025	
NYS Professional Engineer # 072491	Date	Signature



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LIST OF ACRONYMS

Acronym	Definition
AWQSGVs	Ambient Water Quality Standards and Guidance Values
BCA	Brownfield Cleanup Agreement
BCP	Brownfield Cleanup Program
CAMP	Community Air Monitoring Plan
COC	Certificate of Completion
CPP	Citizen Participation Plan
CSCOs	Commercial Soil Cleanup Objectives
DUSR	Data Usability Summary Report
ECs/ICs	Engineering Control/Institutional Control
HASP	Health and Safety Plan
LIRR	Long Island Rail Road
ug/m3	micrograms per meter cubed
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PAHs	Polycyclic Aromatic Hydrocarbons
PCBs	Polychlorinated biphenyl
PFAS	Per- and Polyfluoroalkyl Substances
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonate
PGWSCOs	Protection of Groundwater Soil Cleanup Objectives
PPM	Parts Per Million
PID	Photoionization Detector
QAPP	Quality Assurance Project Plan
RA	Remedial Action
RAOs	Remedial Action Objectives
RAWP	Remedial Action Work Plan
RE	Remedial Engineer
RI	Remedial Investigation
RRSCOs	Restricted Residential Soil Cleanup Objectives
SMP	Site Management Plan
S/MMP	Soil/Materials Management Plan
SOPs	Site Operations Plans
SWPPP	Stormwater Pollution Prevention Plan
TCL	Target Compound List
VOCs	Volatile Organic Compounds

FINAL ENGINEERING REPORT

1.0 BACKGROUND AND SITE DESCRIPTION

The prior site owner, 458 East 99th Street LLC, entered into a Brownfield Cleanup Agreement (BCA), Index No. C224254-01-20, with the New York State Department of Environmental Conservation (NYSDEC) on April 2, 2020 to investigate and remediate a 0.14-acre property located at 458 East 99th Street in Brooklyn, Kings County, New York (Site). 458 East 99th Street LLC entered the Brownfield Cleanup Program (BCP) as a Volunteer and the Site was assigned (BCP) Site No. C224254. A BCA Amendment was executed on March 1, 2023 to modify the BCA and change the remedial party for the Site from 458 East 99th Street LLC to 458 East Owners, LLC (the current owner). The property was remediated to commercial use and is currently developed with a one-story masonry and steel office/warehouse building occupied by a woodworking shop with and an exterior concrete alleyway.

The Site is located in Kings County, New York and is identified as Block 8131 and Lot 56 on the New York City, Kings County Tax Map. A United States Geologic Survey (USGS) topographic quadrangle map (**Figure 1**) shows the Site location. The Site is an approximately 0.14-acre parcel bounded by East 99th Street to the east, and various commercial, industrial, and manufacturing businesses to the west, south, and north (**Figure 2**). The boundaries of the Site are fully described in **Appendix A**: Environmental Easement, Survey Map, Metes and Bounds.

Remedial Investigation (RI) field work was performed in October 2021 in accordance with the Remedial Investigation Work Plan (RIWP) dated August 27, 2021, and approved by New York State Department of Environmental Conservation on August 31, 2021. A Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) submitted June 29, 2023, summarized RI activities and described the remaining remedial activities to be completed. NYSDEC approved the RIR/RAWP and issued the NYSDEC Decision Document (DD) on July 14, 2023. Approvals by the NYSDEC are provided in **Appendix B**.

The environmental easement for the Site was executed by the NYSDEC on August 2, 2024, and filed with the Office of the City Register of the City of New York on

October 2, 2024. The City Register Filing Number is 2024000257471. A copy of the easement and the proof of filing is provided in **Appendix A**.

2.0 SUMMARY OF SITE REMEDY

2.1 Remedial Action Objectives

Based on the results of the Remedial Investigation, the following Remedial Action Objectives (RAOs) were identified for this Site.

2.1.1 Groundwater RAOs

RAOs for Public Health Protection

- Prevent ingestion of groundwater containing contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of, volatiles emanating from contaminated groundwater.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination.

2.1.2 Soil RAOs

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of, or exposure to, contaminants volatilizing from contaminated soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

2.1.3 Soil Vapor RAOs

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into the building at the Site.

2.2 Description of Selected Remedy

The Site was remediated in accordance with the remedy selected by the NYSDEC in the RIR/RAWP dated June 29, 2023 and Decision Document dated July 2023 as further described in this FER.

The factors considered during the selection of the remedy are those listed in 6NYCRR 375-1.8. The following are the components of the selected remedy:

1. A remedial program was implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques were implemented to the extent feasible in the design, implementation, and Site management of the remedy as per DER-31. The major green remediation components are as follows:

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials that would otherwise be considered a waste;
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development; and
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this Site, any future on-Site buildings will include, at a minimum, a 20-mil vapor barrier/waterproofing membrane on the foundation to improve energy efficiency as an element of construction.

As part of the remedial program, to evaluate the remedy with respect to green and sustainable remediation principles, an environmental footprint analysis was completed. The environmental footprint analysis was completed using SiteWise^{TM}, a NYSDEC accepted tool. During the remediation process, several green remediation activities were implemented as Best Management Practices (BMPs) to reduce the environmental impact and enhance sustainability. Additionally, the remedial program included a climate change vulnerability assessment, which evaluated the impact of climate change on the project Site and the proposed remedy. Potential vulnerabilities associated with extreme weather events (e.g., hurricanes, lightning, heat stress and drought), flooding, and sea level rise were identified, and the remedial program incorporated measures to minimize the impact of climate change on potential identified vulnerabilities.

2. Excavation and off-Site disposal of a total of approximately 3.2 tons of contaminated soil as part of Soil Vapor Extraction System/Sub-slab Depressurization System (SVES/SSDS) installation.
3. Appropriate off-Site disposal of soil material removed from the Site in accordance with all Federal, State, and local rules and regulations for handling, transport, and disposal.
4. Clean fill meeting the requirements of 6 NYCRR Part 375-6.7(d) was brought in to install the SVES/SSDS as designed and to replace the excavated soil and establish the designed grades at the Site.
5. SVES was implemented to remove volatile organic compounds (VOCs) from the subsurface and to prevent off-Site migration of contaminated soil vapor. VOCs are physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix that carries the VOCs from the soil to the SVE well. The air extracted from the SVE well is then treated as necessary prior to being discharged to the atmosphere. One SVE well was installed into the vadose zone and screened from ground surface to a depth of approximately 7 feet below ground surface. The air containing VOCs extracted from the SVE well was treated, when required, by passing the air

stream through activated carbon that removes the VOCs from the air prior to it being discharged to the atmosphere.

6. A sub-slab depressurization system (SSDS) was installed to mitigate the migration of vapors into the on-Site building from the subsurface.
7. Imposition of an Institutional Control (IC) in the form of an Environmental Easement for the controlled property that:
    - Requires compliance with the NYSDEC approved Site Management Plan (SMP);
    - Allows the use and development of the controlled property for commercial or industrial use as defined by Part 375-1.8(g)(2)(iii), although land use is subject to local zoning laws;
    - Requires the remedial party to complete and submit to the NYSDEC a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); and
    - Restricts the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the New York City Department of Health and Mental Hygiene (NYCDOHMH).
8. An SMP is required for the Site that includes the following:
    - An Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the Site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective;
        - Institutional Controls: The Environmental Easement discussed above.
        - Engineering Controls: The active SVES/SSDS.
    - A Monitoring Plan to assess the performance and effectiveness of the remedy. This plan includes, but may not be limited to:
        - Monitoring of soil, groundwater, soil vapor and/or indoor air to assess the performance and effectiveness of the remedy;
        - A schedule of monitoring and frequency of submittals to the NYSDEC.
    - An Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. This plan includes, but may not be limited to:
        - Procedures for operating and maintaining the remedy;
        - Compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting;
        - Maintaining Site access controls and NYSDEC notification; and
        - Providing the NYSDEC access to the Site and O&M records.

3.0 INTERIM REMEDIAL MEASURES, OPERABLE UNITS AND REMEDIAL CONTRACTS

The remedy for this Site was performed as a single project, and no interim remedial measures, operable units or separate construction contracts were performed.

4.0 DESCRIPTION OF REMEDIAL ACTIONS PERFORMED

Remedial activities completed at the Site were conducted in accordance with the NYSDEC-approved RIR/RAWP for the Site (June 2023). All deviations from the RIR/RAWP are noted below.

4.1 Governing Documents

4.1.1 Site Specific Health & Safety Plan (HASP)

The Site-Specific HASP was included in Appendix J of the NYSDEC-approved RIR/RAWP, and the Site-specific Community Air Monitoring Plan (CAMP) was included as Appendix K in the RIR/RAWP. All remedial work performed under this Remedial Action was in full compliance with governmental requirements, including Site and worker safety requirements mandated by Federal OSHA.

The Health and Safety Plan (HASP) was complied with for all remedial and invasive work performed at the Site.

4.1.2 Field Sampling Plan (FSP)/Quality Assurance Project Plan (QAPP)

The FSP/QAPP was included as Appendix L of the RIR/RAWP approved by the NYSDEC. The QAPP describes the specific policies, objectives, organization, functional activities and quality assurance/ quality control activities designed to achieve the project data quality objectives.

4.1.3 Construction Quality Assurance Plan (CQAP)

The Construction Quality Assurance Plan(s) (CQAPs) included in Section 9.1.3 of the NYSDEC-approved RIR/RAWP managed performance of the Remedial Action tasks through designed and documented QA/QC methodologies applied in the field and in the lab. The CQAP provided a detailed description of the observation and testing activities that were used to monitor construction quality and confirm that remedial construction was in conformance with the remediation objectives and specifications.

In general, the remedial activities covered by the CQAP consisted of the excavation and proper management/disposal of impacted soils and installation of the SVES/SSDS.

4.1.4 Soil/Materials Management Plan (S/MMP)

The Soil/Material Management Plan (S/MMP) included in Section 10.3 of the NYSDEC-approved RIR/RAWP detailed plans for managing all soils/materials that were

disturbed at the Site including excavation, handling, storage, transport, and disposal. It also included all of the controls that were applied to these efforts to assure effective, nuisance-free performance in compliance with all applicable Federal, State, and local laws and regulations. The following key activities were specified in the S/MMP:

- Soil screening methods;
- Stockpile methods;
- Materials excavation and load out;
- Materials transport off-Site;
- Materials disposal off-Site;
- Materials reuse on-Site;
- Fluids management;
- Demarcation;
- Backfill from off-Site sources;
- Stormwater pollution prevention;
- Contingency plan;
- Community air monitoring plan; and
- Odor, dust, and nuisance control plan.

4.1.5 Storm-Water Pollution Prevention Plan (SWPPP)

The erosion and sediment controls for all remedial construction were performed in conformance with requirements presented in the New York State Guidelines for Urban Erosion and Sediment Control. All excavation was completed inside the building. The Site was exempt from the NYSDEC State Pollutant Discharge Elimination System (SPDES) General Permit for Stormwater Discharges from Construction Activity (Permit No. GP-0-15-002) requirement as it is less than an acre in size and solely serviced by combined sewers. In New York City, a SWPPP is required for disturbance greater than 20,000 SF. Since the disturbance on-Site is below this threshold, a stormwater pollution prevention plan (SWPPP) was not required. Due to limited intrusive work that would affect stormwater quality, NYC Stormwater Best Management Practices were not required for the Site.

4.1.6 Community Air Monitoring Plan (CAMP)

The Site-specific CAMP was provided in the RIR/RAWP as Appendix K. There was no invasive work performed outside the building, and the business was unoccupied by

personnel during the 2024 SSDS installation and therefore no CAMP was performed during the remedial action, as approved by NYSDEC on May 13, 2024 (see **Appendix B**).

4.1.7 Contractors Site Operations Plans (SOPs)

The Remediation Engineer reviewed all plans and submittals for this remedial project (i.e., those listed above plus contractor and subcontractor submittals) and confirmed that they were in compliance with the RIR/RAWP. All remedial documents were submitted to NYSDEC and NYSDOH in a timely manner and prior to the start of work.

4.1.8 Community Participation Plan

The NYSDEC-approved CPP for this Site was included as Appendix I of the RIR/RAWP. A Fact Sheet describing the proposed remedy for the Site (draft RAWP) was mailed on March 7, 2023, to the approved Contact List found in the CPP. No changes were made to the approved Fact Sheet authorized for release by NYSDEC without written consent of the NYSDEC. Copies of the draft RIR/RAWP were mailed (and/or uploaded electronically) to the project document repositories on March 8, 2023. Project document repositories and locations are as follows:

- Brooklyn Public Library – Canarsie Beach, 1580 Rockaway Parkway, Brooklyn, NY 11236
- Brooklyn Community Board 18 – 1097 Bergen Avenue, Brooklyn, NY 11234

4.2 Remedial Program Elements

4.2.1 Contractors and Consultants

Consultant/Contractor	Project Role	Contact
458 East Owners, LLC	Owner/Volunteer	Wolfgang Michelitsch (Site Owner)
Fehringer Surveying, P.C. (Fehringer)	Surveyors	Jeremy Drakeford
Eastern Environmental Solutions, Inc. (Eastern)	GPRS for Utility Clearance	Michael Flynn
Innovative Recycling Technologies, Inc. (IRT)	Remedial Contractor	Jack Ewen (V.P., Remediation)
Roux Environmental Engineering and Geology, D.P.C. (Roux)	Environmental Consultant	Joseph Duminuco, P.G. (Project Principal)
		Noelle M. Clarke, P.E. (Remedial Engineer)
		David Kaiser. P.E. (Project Manager)
		Brooke Hildebrand (Field Team Leader)
		Jessica Taylor (Quality Assurance Officer)
Eurofins TestAmerica (Eurofins)	Environmental Laboratory	Melissa Haas (Project Manager)

Consultant/Contractor	Project Role	Contact
Roux Associates, Inc.	DUSR Preparer	James Hauri, Ph.D.

4.2.2 Site Preparation

A pre-construction meeting was held with NYSDEC and all contractors on May 8, 2024.

Documentation of agency approvals required by the RIR/RAWP is included in **Appendix B**.

4.2.3 General Site Controls

Site access was controlled by two roll-up doors and one standard entry door, accessible by East 99th Street and the exterior concrete alley. The client allowed Roux to fully access the Site to perform the scope of work required, with no employees of the business present during the work. The gates and doors were closed and locked to prevent unauthorized entry and to protect the community from remedial activities.

Construction activities were performed in modified Level D PPE that included steel-toed work boots, hard hats, safety glasses, gloves, and high visibility clothing (i.e., reflective vest).

Site records for all remedial work were appropriately documented by Roux. Documented activities included daily inspections to verify conformance with the RIR/RAWP, health and safety monitoring and material tracking. These records were maintained on-Site by Roux during the performance of the RA and were available for review by the NYSDEC.

Excavated Material Handling, Materials Transportation, and Disposal Off-Site

Soil movement on Site was very limited. All excavated soils were stored in drums that were labeled accordingly. Drums were then sampled for waste characterization and exported off Site in accordance with appropriate Federal, State, local, and NYSDOT requirements to an approved facility. Waste manifests are included in **Appendix G**.

4.2.4 Nuisance Controls

All necessary means were employed to prevent the generation of on- and off-Site dust and odor nuisances. At a minimum, dust and odor control procedures included: (a) limiting the area of open excavations; (b) use of water to dampen exposed soils; (c) placing

excavated soil into drums. Nuisance vapors and odors were not generated during excavation activities.

No known odor or dust complaints were received during construction.

4.2.5 Best Management Practices

During the remediation process, green remediation activities were implemented as Best Management Practices to reduce the environmental impact and enhance sustainability. These activities included:

- SVES/SSDS Project Planning:
  - Designed a modular network of piping that allows for future increases or decreases in air extraction.
  - Used piping of sufficient diameter to minimize pressure drops to reduce the need for additional air blowers.
  - Selected vacuum pumps and blowers to accommodate changes in operating requirements as treatment progresses.
  - Selected suitable sizing of air extraction equipment to help optimize energy use.
  - Determined the minimum air flow rate that can meet the cleanup objectives and schedule while minimizing energy consumption.
- SVES/SSDS Operations, Monitoring & Maintenance (OM&M):
  - Maintained effective surface seals around monitoring points to ensure no air loss.

Implementing these green remediation activities as Best Management Practices during the remediation process minimized environmental impact and promoted sustainability.

4.2.6 Climate Change Vulnerability Assessment

Increases in both the severity and frequency of storms/weather events, an increase in sea level elevations along with accompanying flooding impacts, shifting precipitation patterns and wide temperature fluctuation, resulting from global climactic change and instability, have the potential to significantly impact the protectiveness of a given Site. Vulnerability assessments provide information so that the Site is prepared for the impacts of the increasing frequency and intensity of severe storms/weather events and associated flooding.

This section provides a summary of vulnerability assessments and briefly

summarizes the vulnerability of the Site and/or engineering controls to severe storms/weather events and associated flooding. Vulnerability assessments will be conducted for the Site during periodic assessments.

- Flood Plain: The Site is not located in a flood plain, low-lying or low-groundwater recharge area.
- Site Drainage and Storm Water Management: Adequate storm management systems are present for the building and Site; therefore, flooding is not anticipated.
- Erosion: The Site is entirely covered by the building footprint and concrete in the alley, therefore, erosion at the Site is not anticipated during periods of severe rain events.
- High Wind: No areas of the Site have been identified that may be susceptible to damage from the wind itself or falling objects, such as trees or utility structures during periods of high wind.
- Electricity: The Site is potentially susceptible to power loss and/or dips/surges in voltage during severe weather events, including lightning strikes, and the associated impact on Site equipment and operations. However, the surrounding area is highly developed, and power outages will be rectified as soon as possible by the electricity provider. Due to the variability in annual weather patterns, it is assumed that emergency weather situations will be infrequent, and damages rectified by the appropriate relief agency.
- Spill/Contaminant Release: No areas of the Site have been identified that may be susceptible to a spill or other contaminant release due to storm-related damage caused by flooding, erosion, high winds, loss of power etc.
- Wildfires: The immediate area surrounding the Site is not wooded and therefore there is no wildfire risk.

A Climate Screening Checklist is included as **Appendix M**.

4.2.7 Green Remediation Evaluation

NYSDEC's DER-31 Green Remediation requires that green remediation concepts and techniques be considered during all stages of the remedial program including Site management, with the goal of improving the sustainability of the cleanup and summarizing the net environmental benefit of any implemented green technology. This section provides an environmental footprint analysis of the remedy, as implemented at the time of this FER.

4.2.7.1 SiteWise Analysis for the Implemented Remedial Action

At the time when the RIR/RAWP was prepared, no environmental footprint analysis was required prior to the implementation of the remedial action. As part of this FER, SiteWise was used to calculate the carbon footprint of the remedial action that was implemented. This includes one major component of the remedy, the installation of the

SVES/SSDS. Based on this major component of the remedy, the following data tables were generated using SiteWise.

Phase	Activities	GHG Emissions	Total Energy Used	Water Consumption	Electricity Usage	Onsite NOx Emissions	Onsite SOx Emissions	Onsite PM10 Emissions	Total NOx Emissions	Total SOx Emissions	Total PM10 Emissions	Accident Risk Fatality	Accident Risk Injury
		metric ton	MMBTU	gallons	MWH	metric ton	metric ton	metric ton	metric ton	metric ton	metric ton		
SSDS	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.19	2.4E+00	NA	NA	NA	NA	NA	7.1E-05	2.5E-06	1.4E-05	3.9E-06	3.1E-04
	Transportation-Equipment	0.07	9.6E-01	NA	NA	NA	NA	NA	2.3E-05	4.1E-07	2.1E-06	3.9E-07	3.1E-05
	Equipment Use and Misc	0.34	4.9E+00	2.0E-01	4.0E-04	0.0E+00	0.0E+00	0.0E+00	1.6E-03	1.2E-03	1.4E-04	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.60	8.23E+00	2.03E-01	3.99E-04	0.00E+00	0.00E+00	0.00E+00	1.73E-03	1.23E-03	1.53E-04	4.29E-06	3.45E-04
SVES	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.11	1.6E+00	1.2E-01	2.5E-04	0.0E+00	0.0E+00	0.0E+00	5.4E-04	4.1E-04	4.5E-05	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.11	1.62E+00	1.25E-01	2.45E-04	0.00E+00	0.00E+00	0.00E+00	5.44E-04	4.08E-04	4.54E-05	0.00E+00	0.00E+00

Greenhouse gases, total energy, water consumption, total nitrogen oxide emissions, total sulfur oxide emissions, and total particulate matter (PM10) emissions generated during the remedial action were predominantly from equipment usage on-Site related to SVES/SSDS operations. Risks of injury and fatality were predominantly from personnel transportation during the remedial action.

Appendix L contains the summary of the SiteWise Analysis completed for the implemented remedial action.

4.2.8 Reporting

Daily reports were submitted electronically to the NYSDEC Project Manager and included:

- Date and weather;
- Updates of progress made during the reporting day;
- Locations of work and quantities of material imported and exported from the Site;
- A summary of any and all complaints with relevant details;
- An explanation of notable Site conditions
- A look ahead portion that describes immediate future work;
- Photos of Site activities.

In accordance with the BCA, monthly reports summarizing the work were also completed during each reporting period and included anticipated work activities for the following month, changes to the scope of work or schedule, sampling or other data received or generated during the reporting period, deliverables submitted during the reporting period, and remedial activities planned for the next reporting period.

All daily and monthly reports are included in electronic format in **Appendices C and D**, respectively.

The digital photo log required by the RIR/RAWP is included in electronic format in **Appendix E**.

4.3 Contaminated Materials Removal

The following media were removed from the Site during the RA: contaminated soil derived from the SVES/SSDS installation.

The Site-specific SCOs for this Site are the Track 2 Commercial SCOs as detailed in Section 2.2. A list of the applicable commercial soil cleanup objectives (CSCOs) for the contaminants of concern for this project is provided in **Table 1**.

A figure of the location of original sources and areas where excavations were performed is shown in **Figure 7**.

4.3.1 Non-Hazardous Soil and Fill Disposal

Approximately 3.2 tons of contaminated soil and fill were removed and disposed of off-Site as part of SVES/SSDS installation during implementation of the RIR/RAWP.

Table 15. Offsite Soil Disposal Volumes and Facilities

Permitted Disposal Facility	Quantity (Tons)
JG Environmental, LLC 776 Flory Mill Road Lancaster, Pennsylvania 17601	3.2 tons
Total	**3.2 tons**

Waste disposal profiles/application submitted to disposal facilities, associated waste characterization analytical data, and acceptance letters from disposal facilities are attached in **Appendix F**. Manifests and bills of lading are included in electronic format in **Appendix G**.

4.4 Remedial Performance/Documentation Sampling

Pressure-field extension testing was conducted post-SVES/SSDS installation on June 11, 2024. Test results demonstrated that the SSDS is adequately depressurizing the

slab with the following results: SV-1 = -0.658 inches of water; SV-2 = -0.079 inches of water; and SV-3 = -1.240 inches of water. System efficacy evaluation sampling was conducted post-SVES/SSDS installation on April 10, 2025. Sampling was considered to be within the heating season based on weather conditions at the time, in consultation with NYDSEC and NYSDOH. A total of two samples, one ambient air and one indoor air (AA-01 and IA-SV-1), were analyzed for target compound list (TCL) VOCs. Based on the results the concentrations of target compounds (CVOCs) are low, whereas several non-target VOCs are present at higher concentrations, as discussed further below. The sample locations are shown in **Figure 9** and the analytical results are included as **Table 14**. SVES/SSDS monitoring data is included in **Table 16** below.

Table 16. SVES/SSDS Monitoring Data

Location	SVE-1 Riser	SP-1 Riser	SP-2 Riser	SP-3 Riser	SV-1	SV-2	SV-3
June 11, 2024 (inches of water)	-4.551	-4.207	-4.606	-3.869	-0.658	-0.079	-1.240
July 22, 2024 (inches of water)	-5.699	-4.179	-4.471	-4.064	--	--	--

Readings were not collected. Effluent air discharge samples were collected on July 22, 2024 from the riser sampling ports of the SSDS/SVES after startup to determine if treatment is necessary. Each effluent discharge stack was sampled for VOCs via EPA Method TO-15 and assessed in accordance with the Guidance on Air Emissions of VOCs at DER Remediation Sites prepared by the DER and the Division of Air Resources (DAR). Sampling results indicated that treatment is not required. Sampling results and analysis are provided in **Table 18**.

NYSDOH Indoor Air Quality Questionnaire, photographs of products used and stored in the woodworking shop, as well as Safety Data Sheets (SDSs) for several of the products, which are believed by Roux to be the sources of VOCs in the indoor air, are provided in **Appendix N**. The use and storage of compounds containing VOCs will continue to be routine as part of the building's association with a woodworking shop.

VOCs are common components of topcoats, polishing cremes, paints, varnish removers, toners, glosses, finishing products, lacquers, lubricants and other compounds typically used and stored in a woodworking shop. The SDSs provided in **Appendix N** confirm that many of the parameters detected in the indoor air, some at elevated

concentrations, are present in the products currently used and stored on-Site. Products used and stored in the woodworking shop are believed to be the sources of VOCs, as verified by review of product SDSs, which include compounds such as: 1-methoxy-2-propyl acetate, 1-methyl-2-pyrrolidone, 2-propanol, 4-methyl 1-2-pentanone, 4-methylbenzenesulfonic acid, acetone, alcohol ethoxylate, aliphatic hydrocarbon, aromatic hydrocarbons, butanol, butyl cellosolve, butyl dihydrogen phosphate, butyl methacrylate, cumene, denatured alcohol, dimethyl carbonate, ethanol, ethyl 3-ethoxypropionate, ethyl acetate, ethylbenzene, glycerol, gum turpentine, hydrocarbons, isobutyl acetate, isopropanol, kerosene, methanol, methyl ethyl ketone, methyl ethyl ketoxime, methyl methacrylate, methyl sulfoxide, n-butane, n-butyl acetate, octamethylcyclotetasiloxane, petroleum distillate, pm acetate, propane, propylene glycol monomethyl ether, solvent naphtha (petroleum), toluene, xylenes (o-, m-, p- isomers), and others. Roux believes these products and their associated compounds to be the sources of VOCs given that during time of sampling the shop was more active when compared to initial sampling when the shop was closed for a week prior. Due to the active and ongoing commercial/industrial operations associated with a woodworking shop, the presence of these parameters in the indoor air are likely to persist. Roux does not believe they are attributable to SVI.

Data Usability Summary Reports (DUSRs) were prepared for all data generated in this remedial performance evaluation program. These DUSRs are included in **Appendix H**, and associated raw is provided electronically in **Appendix I**.

4.5 Imported Backfill

All import requests met the requirements for 6 NYCRR Part 375-6.7(d) and DER-10, section 5.4(e), being comprised of virgin stone from a permitted quarry containing less than 10% of material passing through a No. 80 sieve, the use of which does not require chemical analytical testing. A total of 3.08 tons of ¾-inch virgin dolomite limestone was imported from Tilcon New York Inc. – Clinton Point located in New Hamburg, New York.

Table 17. Backfill Quantities and Sources

Import Facility	Material Type	Quantity (Tons)
Tilcon New York Inc. – Clinton Point Quarry (NYSDEC Mine ID 30011)	Virgin Dolomite Limestone	3.08

Import Facility	Material Type	Quantity (Tons)
461 Sheafe Road New Hamburg, New York 12590		
	Total	**3.08 Tons**

Backfill import requests and NYSDEC-approval documentation for each material are provided in **Appendix J**. A figure showing the locations where backfill was used at the Site is shown in **Figure 7**.

4.6 Contamination Remaining at the Site

After the Remedial Action, there were no exceedances of CSCOs and therefore a Site Cover System was not required as part of the remedy. One SVE point was installed along the north side of the property (SVE-1) to address the area where PCE exceeding UUSCOs/PGWSCOs was found in shallow soil. RI sampling indicated that soil did exceed UUSCOs but detections were below their respective CSCOs by multiple orders of magnitude, in most cases, and Site soil was left in place with the exception of the areas that were excavated as part of the SSDS/SVES installation.

Tables 3 through 8 and Figure 4 summarize the results of all soil samples collected during the 2021 RI that remain at the Site after completion of Remedial Action that exceed the Track 2 (Commercial) SCOs.

No direct link to an on-Site release of VOCs was identified and it does not appear an on-Site source is directly impacting the groundwater quality. There is no plan for groundwater sampling as groundwater RAOs were met through the installation of the SSDS/SVES. A groundwater flow map is shown in Figure 3. Groundwater elevation data is provided in Table 2. Tables 9 through 12 and Figure 5 summarize the results of groundwater samples collected during the 2021 RI that remain at the Site after completion of remedial action.

Residual soil vapor contamination remains on-Site and will be addressed with the active SVES/SSDS Engineering Control within the building to reduce the potential for exposure to soil vapor. Table 13 and Figure 6 summarize the results of soil vapor samples collected during the 2021 RI that remain at the Site after completion of the remedial action.

Since contaminated soil, groundwater, and soil vapor remains beneath the Site after completion of the Remedial Action, Institutional and Engineering Controls are required to protect human health and the environment. These Engineering and Institutional Controls

(ECs/ICs) are described in the following sections. Long-term management of these EC/ICs and residual contamination will be performed under the Site Management Plan (SMP) approved by the NYSDEC.

4.7 Engineering Controls

Since remaining contaminated soil, groundwater, and soil vapor exists beneath the Site, Engineering Controls (EC) are required to protect human health and the environment. The Site has the following primary Engineering Controls, as described in the following subsections.

The SVES/SSDS were installed immediately beneath the building foundation slab near the four corners of the building interior.

The SSDS includes a network of suction pits with 4-inch perforated polyvinyl chloride (PVC) piping within 4-foot by 4-foot gravel bedded suction pits wrapped in filter fabric. There are a total of four areas where SVES/SSDS components were installed; three SSDS suction pits located near the southwest, southeast, and northeast corners of the Site and one SVE point located in the northern portion of the building around where soil boring B-4 was performed during the 2021 RI. Each trench from the SSDS pits and SVE point transitions to 4-inch solid PVC piping that runs horizontally below grade towards the respective building perimeter where the piping is then routed vertically and transitions to 4-inch cast iron riser piping and is routed towards the roof. The exhaust point on the roof extends to a minimum of four feet above the roof line and the exhaust discharge is located a minimum of ten feet from the property boundary or building air intakes (i.e., HVAC). The risers connected to the three SSDS suction pits each have a dedicated in-line fan (RadonAway #GX5A In-Line Fan) and the riser connected to the SVE point has a dedicated in-line fan (RadonAway #HS2750 In-Line Fan). A larger fan is used for the SVE point in order to remove potential source material from the area with PCE above UUSCOs and PGWSCOs. The fans will operate continuously. Three sub-slab monitoring points were installed to monitor effectiveness of the SVES/SSDS on a periodic basis described herein. The as-built drawing and component manual are provided in **Appendix K**. Figure 8 shows the location of the ECs for the Site. SVES/SSDS confirmation monitoring data is provided in Table 16 embedded in Section 4.4.

Procedures for monitoring, operating and maintaining the SVES/SSDS system are provided in the Operation and Maintenance Plan in Section 5 of the Site Management Plan (SMP). The Monitoring Plan also addresses inspection procedures that must occur after any severe weather condition has taken place that may affect on-Site ECs.

4.8 Institutional Controls

The Site remedy requires that an environmental easement be placed on the property to (1) implement, maintain and monitor the Engineering Controls; (2) prevent future exposure to remaining contamination by controlling disturbances of the subsurface contamination; and (3) limit the use and development of the Site to commercial or industrial uses only.

ICs identified in the Environmental Easement may not be discontinued without an amendment to or extinguishment of the Environmental Easement. The IC boundaries are shown on Figure 2. These ICs are:

- The property may be used for: commercial and industrial use;
- All ECs must be operated and maintained as specified in the SMP;
- All ECs must be inspected at a frequency and in a manner defined in the SMP;
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the Environmental Easement, NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the NYSDEC;
- Groundwater and other environmental or public health monitoring, if any, must be performed as defined in the SMP;
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the SMP;
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the SMP;
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the SMP;
- Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by the Environmental Easement;
- The potential for vapor intrusion must be evaluated for any new buildings (excluding the existing building) developed in the area within the IC boundaries noted on Figure 2, and any potential impacts that are identified must be monitored or mitigated;
- Vegetable gardens and farming on the site are prohibited.

- An evaluation shall be performed to determine the need for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible.

The environmental easement for the Site was executed by the NYSDEC on August 2, 2024, and filed with the Office of the City Register of the City of New York on October 2, 2024. The City Register Filing Number is 2024000257471. A copy of the easement and the proof of filing is provided in Appendix A.

4.9 Deviations from the Remedial Action Work Plan

The only deviation from the RIR/RAWP was the lack of SVE treatment since the discharge air sampling results and DER/DAR Air Emissions Analysis (**Table 18**) indicated that treatment is not required.

TABLES

1. Track 2 Soil Cleanup Objectives
2. Groundwater Gauging Data
3. Summary of Volatile Organic Compounds in Soil
4. Summary of Semivolatile Organic Compounds in Soil
5. Summary of Metals in Soil
6. Summary of Polychlorinated Biphenyls in Soil
7. Summary of Pesticides in Soil
8. Summary of Per- and Polyfluoroalkyl Substances in Soil
9. Summary of Volatile Organic Compounds in Groundwater
10. Summary of Semivolatile Organic Compounds in Groundwater
11. Summary of Metals in Groundwater
12. Summary of Per- and Polyfluoroalkyl Substances in Groundwater
13. Summary of VOCs in Indoor Air, Outdoor Air, and Soil Vapor
14. Summary of VOCs in Soil Vapor Intrusion Samples Post-SVES/SSDS Installation
15. Offsite Soil Disposal Volumes and Facilities (embedded in text)
16. SVES/SSDS Monitoring Data (embedded in text)
17. Backfill Quantities and Sources (embedded in text)
18. DER/DAR Air Emissions Analysis Worksheet

Table 1. Track 2 Soil Cleanup Objectives

Parameter	Track 2 Soil Cleanup Objectives*
Volatile Organic Compounds (Concentrations in mg/kg)	
1,1,1-Trichloroethane	500
1,1-Dichloroethane	240
1,1-Dichloroethene	500
1,2,4-Trimethylbenzene	190
1,3,5-Trimethylbenzene	190
1,2-Dichlorobenzene	500
1,2-Dichloroethane	30
1,3-Dichlorobenzene	280
1,4-Dichlorobenzene	130
2-Butanone (MEK)	500
Acetone	500
Benzene	44
n-Butylbenzene	500
Carbon tetrachloride	22
Chlorobenzene	500
Chloroform	350
cis-1,2-Dichloroethene	500
Ethylbenzene	390
Methylene chloride	500
MTBE	500
n-Propylbenzene	500
sec-Butylbenzene	500
tert-Butylbenzene	500
Tetrachloroethene	150
Toluene	500
trans-1,2-Dichloroethene	500
Trichloroethene	200
Vinyl chloride	13
Xylenes (total)	500
Semivolatile Organic Compounds (Concentrations in mg/kg)	
1,4-Dioxane	130
2-Methylphenol	500
3&4-Methylphenol	500
Acenaphthene	500
Acenaphthylene	500
Anthracene	500
Benzo[a]anthracene	5.6
Benzo[a]pyrene	1
Benzo[b]fluoranthene	5.6
Benzo[g,h,i]perylene	500
Benzo[k]fluoranthene	56
Chrysene	56
Dibenzo[a,h]anthracene	0.56
Dibenzofuran	350
Fluoranthene	500
Fluorene	500
Hexachlorobenzene	6
Indeno[1,2,3-cd]pyrene	5.6
Naphthalene	500
Pentachlorophenol	6.7

Table 1. Track 2 Soil Cleanup Objectives

Parameter	Track 2 Soil Cleanup Objectives*
Phenanthrene	500
Phenol	500
Pyrene	500
Metals (Concentrations in mg/kg)	
Arsenic	16
Barium	400
Beryllium	590
Cadmium	9.3
Chromium, Hexavalent	400
Chromium	1500
Copper	270
Cyanide, Total	27
Lead	1000
Manganese	10000
Mercury	2.8
Nickel	310
Selenium	1500
Silver	1500
Zinc	10000
Pesticides (Concentrations in mg/kg)	
2,4,5-TP	500
4,4'-DDD	92
4,4'-DDE	62
4,4'-DDT	47
Aldrin	0.068
alpha-BHC	3.4
alpha-Chlordane	24
beta-BHC	3
delta-BHC	500
Dieldrin	1.4
Endosulfan I	200
Endosulfan II	200
Endosulfan sulfate	200
Endrin	89
gamma-BHC (Lindane)	9.2
Heptachlor	15
Total Polychlorinated Biphenyls (Concentrations in mg/kg)	
Total Polychlorinated Biphenyls	1

* Soil cleanup objectives for the Track 2 remedy are the 6 NYCRR Part 375 Commercial Soil Cleanup Objectives (CSCOs).

mg/kg - Milligrams per kilogram (parts per million [ppm])

NYSDEC - New York State Department of Environmental Conservation

SCOs - Soil Cleanup Objectives

Table 2. Groundwater Gauging Data, 458 East 99th Street, Brooklyn, New York

Monitoring Well Identification	Measurement Date	Measuring Point Elevation (feet NAVD 88)	Depth to Water (feet below measuring point)
GW-4S	11/18/2021	13.99	9.05
GW-4D	11/18/2021	13.94	9.08
GW-5S	11/18/2021	14.87	9.98
GW-5D	11/18/2021	14.81	9.94
GW-6S	11/18/2021	13.81	8.90
GW-6D	11/18/2021	13.92	8.94
GW-7S	11/18/2021	13.93	8.98
GW-7D	11/18/2021	13.90	8.95
GW-8S	11/18/2021	14.24	9.30
GW-8D	11/18/2021	14.13	9.27

Notes:

NAVD 1988 - North American Vertical Datum of 1988

Notes Utilized Throughout Tables	
Soil Tables	
J -	Estimated value
U -	Indicates that the compound was analyzed for but not detected
P -	The RPD between the results for the two columns exceeds the method-specified criteria
RPD -	Relative Percent Difference
T -	Indicates that a quality control parameter has exceeded laboratory limits
ft bls -	Feet below land surface
FD -	Duplicate sample
µg/kg -	Micrograms per kilogram
mg/kg -	Milligrams per kilogram
NYSDEC -	New York State Department of Environmental Conservation
SCO -	Soil Cleanup Objectives
--	No SCO available
Bold data indicates that parameter was detected above the NYSDEC Part 375 Unrestricted Use SCO	
Shaded data indicates that parameter was detected above the NYSDEC Part 375 Commercial SCO	
Red data indicates that parameter was detected above the NYSDEC Part 375 Protection of Groundwater SCO	
Per- and Polyfluoroalkyl Substances	
GV -	Guidance Values
Bold data indicates that parameter exceeded the NYSDEC Unrestricted Use Guidance Values	
Shaded data indicates that parameter exceeded the NYSDEC Commercial Guidance Values	
Red data indicates that parameter exceeded the NYSDEC Protection of Groundwater Guidance Values	
Undetected results reflect Minimum Detection Limits	
Groundwater Tables	
J -	Estimated Value
U -	Compound was analyzed for but not detected
D -	A secondary analysis after dilution due to exceedance of the calibration range in the original sample.
T -	Indicates that a quality control parameter has exceeded laboratory limits
EMPC -	The results do not meet all criteria for a confirmed identification. The quantitative value represents the Estimated Maximum Possible Concentration of the analyte in the sample
FD -	Duplicate
µg/L -	Micrograms per liter
NYSDEC -	New York State Department of Environmental Conservation
AWQSGVs -	Ambient Water-Quality Standards and Guidance Values
--	No NYSDEC AWQSGV available
Bold data indicates that parameter was detected above the NYSDEC AWQSGVs	

Notes Utilized Throughout Tables	
Soil Vapor/Ambient Air	
J -	Estimated value
U -	Indicates that the compound was analyzed for but not detected
D -	Concentration of analyte was quantified from diluted analysis. Flag only applies to field samples that have detectable concentrations of the analyte
T -	Indicates that a quality control parameter has exceeded laboratory limits
FD -	Duplicate sample
ug/m^3 -	Micrograms per cubic meter
Bold data indicates that parameter was detected	

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,1,1-Trichloroethane (TCA)	0.68	500	0.68	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,1-Dichloroethane	0.27	240	0.27	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,1-Dichloroethene	0.33	500	0.33	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.13 UT	0.0012 U	0.0015 U	0.00093 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.13 UT	0.0012 U	0.0015 U	0.00093 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,2-Dichlorobenzene	1.1	500	1.1	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,2-Dichloroethane	0.02	30	0.02	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,2-Dichloropropane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,3-Dichlorobenzene	2.4	280	2.4	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
1,4-Dichlorobenzene	1.8	130	1.8	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
2-Hexanone	--	--	--	MG/KG	0.65 U	0.0061 U	0.0073 U	0.0046 U
Acetone	0.05	500	0.05	MG/KG	0.65 U	0.031	0.011	0.011
Benzene	0.06	44	0.06	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Bromochloromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Bromodichloromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Bromoform	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Bromomethane	--	--	--	MG/KG	0.13 U	0.0024 U	0.0029 U	0.0019 U
Carbon Disulfide	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Carbon Tetrachloride	0.76	22	0.76	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Chlorobenzene	1.1	500	1.1	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Chloroethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Chloroform	0.37	350	0.37	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Chloromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Cis-1,2-Dichloroethylene	0.25	500	0.25	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Cyclohexane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Dibromochloromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Ethylbenzene	1	390	1	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
m,p-Xylene	--	--	--	MG/KG	0.17	0.0012 U	0.0015 U	0.00093 U
Methyl Acetate	--	--	--	MG/KG	0.65 U	0.0061 U	0.0073 U	0.0046 U
Methyl Ethyl Ketone (2-Butanone)	0.12	500	0.12	MG/KG	0.65 U	0.0055 J	0.0073 U	0.0046 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.65 U	0.0061 U	0.0073 U	0.0046 U
Methylcyclohexane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Methylene Chloride	0.05	500	0.05	MG/KG	0.13 U	0.0024 U	0.0029 U	0.0019 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Styrene	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Tert-Butyl Methyl Ether	0.93	500	0.93	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Tetrachloroethene (PCE)	**1.3**	150	1.3	MG/KG	**18**	0.0012 U	0.0015 U	0.012
Toluene	0.7	500	0.7	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Trans-1,2-Dichloroethene	0.19	500	0.19	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Trichloroethene (TCE)	0.47	200	0.47	MG/KG	0.28	0.0012 U	0.0015 U	0.00093 U
Trichlorofluoromethane	--	--	--	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U
Vinyl Chloride	0.02	13	0.02	MG/KG	0.13 U	0.0012 U	0.0015 U	0.00093 U

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units		
Sample Designation:					B-5	B-5
Sample Date:					10/10/2021	10/10/2021
Sample Depth (ft bls):					10 - 12	23 - 25
Normal Sample or Field Duplicate:					N	N
1,1,1-Trichloroethane (TCA)	0.68	500	0.68	MG/KG	0.0011 U	0.0011 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.0011 U	0.0011 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.0011 U	0.0011 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.0011 U	0.0011 U
1,1-Dichloroethane	0.27	240	0.27	MG/KG	0.0011 U	0.0019
1,1-Dichloroethene	0.33	500	0.33	MG/KG	0.0011 U	0.0011 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.0011 U	0.0011 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0011 U	0.0011 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.0011 U	0.0011 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.0011 U	0.0011 U
1,2-Dichlorobenzene	1.1	500	1.1	MG/KG	0.0011 U	0.0011 U
1,2-Dichloroethane	0.02	30	0.02	MG/KG	0.0011 U	0.0011 U
1,2-Dichloropropane	--	--	--	MG/KG	0.0011 U	0.0011 U
1,3-Dichlorobenzene	2.4	280	2.4	MG/KG	0.0011 U	0.0011 U
1,4-Dichlorobenzene	1.8	130	1.8	MG/KG	0.0011 U	0.0011 U
2-Hexanone	--	--	--	MG/KG	0.0054 U	0.0054 U
Acetone	0.05	500	0.05	MG/KG	0.015	0.025
Benzene	0.06	44	0.06	MG/KG	0.0011 U	0.0011 U
Bromochloromethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Bromodichloromethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Bromoform	--	--	--	MG/KG	0.0011 U	0.0011 U
Bromomethane	--	--	--	MG/KG	0.0021 U	0.0022 U
Carbon Disulfide	--	--	--	MG/KG	0.0011 U	0.0011 U
Carbon Tetrachloride	0.76	22	0.76	MG/KG	0.0011 U	0.0011 U
Chlorobenzene	1.1	500	1.1	MG/KG	0.0011 U	0.0011 U
Chloroethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Chloroform	0.37	350	0.37	MG/KG	0.0011 U	0.0011 U
Chloromethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Cis-1,2-Dichloroethylene	0.25	500	0.25	MG/KG	0.0011 U	0.0014
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.0011 U	0.0011 U
Cyclohexane	--	--	--	MG/KG	0.0011 U	0.0011 U
Dibromochloromethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.0011 U	0.0011 U

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-5
				Sample Date:	10/10/2021	10/10/2021
				Sample Depth (ft bls):	10 - 12	23 - 25
				Normal Sample or Field Duplicate:	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units		
Ethylbenzene	1	390	1	MG/KG	0.0011 U	0.0011 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.0011 U	0.0011 U
m,p-Xylene	--	--	--	MG/KG	0.0011 U	0.0011 U
Methyl Acetate	--	--	--	MG/KG	0.0054 U	0.0054 U
Methyl Ethyl Ketone (2-Butanone)	0.12	500	0.12	MG/KG	0.0054 U	0.0054 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.0054 U	0.0054 U
Methylcyclohexane	--	--	--	MG/KG	0.0011 U	0.0011 U
Methylene Chloride	0.05	500	0.05	MG/KG	0.0021 U	0.0022 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.0011 U	0.0011 U
Styrene	--	--	--	MG/KG	0.0011 U	0.0011 U
Tert-Butyl Methyl Ether	0.93	500	0.93	MG/KG	0.0011 U	0.0011 U
Tetrachloroethene (PCE)	**1.3**	150	1.3	MG/KG	0.0019	0.0011 UJ
Toluene	0.7	500	0.7	MG/KG	0.0011 U	0.0011 U
Trans-1,2-Dichloroethene	0.19	500	0.19	MG/KG	0.0011 U	0.0011 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.0011 U	0.0011 U
Trichloroethene (TCE)	0.47	200	0.47	MG/KG	0.0011 U	0.00072 J
Trichlorofluoromethane	--	--	--	MG/KG	0.0011 U	0.0011 U
Vinyl Chloride	0.02	13	0.02	MG/KG	0.0011 U	0.0011 U

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-6	B-6	B-6
				Sample Date:	10/10/2021	10/09/2021	10/09/2021	10/09/2021
				Sample Depth (ft bls):	23 - 25	0.5 - 2.5	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	FD	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,1,1-Trichloroethane (TCA)	0.68	500	0.68	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,1,2,2-Tetrachloroethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,1,2-Trichloroethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,1-Dichloroethane	0.27	240	0.27	MG/KG	0.0014	0.0013 UJ	0.0012 U	0.0012 U
1,1-Dichloroethene	0.33	500	0.33	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2,3-Trichlorobenzene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2,4-Trichlorobenzene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2-Dibromo-3-Chloropropane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2-Dibromoethane (Ethylene Dibromide)	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2-Dichlorobenzene	1.1	500	1.1	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2-Dichloroethane	0.02	30	0.02	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,2-Dichloropropane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,3-Dichlorobenzene	2.4	280	2.4	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
1,4-Dichlorobenzene	1.8	130	1.8	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
2-Hexanone	--	--	--	MG/KG	0.0057 U	0.0065 UJ	0.0059 U	0.0062 U
Acetone	0.05	500	0.05	MG/KG	0.022	0.0076 J-	0.0098	0.015
Benzene	0.06	44	0.06	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Bromochloromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Bromodichloromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Bromoform	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Bromomethane	--	--	--	MG/KG	0.0023 U	0.0026 UJ	0.0024 U	0.0025 U
Carbon Disulfide	--	--	--	MG/KG	0.00052 J	0.0013 UJ	0.0012 U	0.0012 U
Carbon Tetrachloride	0.76	22	0.76	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Chlorobenzene	1.1	500	1.1	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Chloroethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Chloroform	0.37	350	0.37	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Chloromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Cis-1,2-Dichloroethylene	0.25	500	0.25	MG/KG	0.0012	0.0013 UJ	0.0012 U	0.0012 U
Cis-1,3-Dichloropropene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Cyclohexane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Dibromochloromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Dichlorodifluoromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U

Table 3. Summary of Volatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-6	B-6	B-6
				Sample Date:	10/10/2021	10/09/2021	10/09/2021	10/09/2021
				Sample Depth (ft bls):	23 - 25	0.5 - 2.5	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	FD	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Ethylbenzene	1	390	1	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Isopropylbenzene (Cumene)	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
m,p-Xylene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Methyl Acetate	--	--	--	MG/KG	0.0057 U	0.0065 UJ	0.0059 U	0.0062 U
Methyl Ethyl Ketone (2-Butanone)	0.12	500	0.12	MG/KG	0.0057 U	0.0065 UJ	0.0059 U	0.0062 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	--	--	MG/KG	0.0057 U	0.0065 UJ	0.0059 U	0.0062 U
Methylcyclohexane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Methylene Chloride	0.05	500	0.05	MG/KG	0.0023 U	0.0026 UJ	0.0024 U	0.0025 U
O-Xylene (1,2-Dimethylbenzene)	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Styrene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Tert-Butyl Methyl Ether	0.93	500	0.93	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Tetrachloroethene (PCE)	**1.3**	150	1.3	MG/KG	0.013 J	0.012 J-	0.0027	0.0012 U
Toluene	0.7	500	0.7	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Trans-1,2-Dichloroethene	0.19	500	0.19	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Trans-1,3-Dichloropropene	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Trichloroethene (TCE)	0.47	200	0.47	MG/KG	0.0005 J	0.0013 UJ	0.0012 U	0.00064 J
Trichlorofluoromethane	--	--	--	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U
Vinyl Chloride	0.02	13	0.02	MG/KG	0.0011 U	0.0013 UJ	0.0012 U	0.0012 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
1,4-Dioxane (P-Dioxane)	0.1	130	0.1	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.15 U	0.16 U	0.16 U	0.14 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.15 U	0.16 U	0.16 U	0.14 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.29 U	0.32 U	0.33 U	0.29 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
2-Chloronaphthalene	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2-Chlorophenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2-Methylnaphthalene	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2-Methylphenol (O-Cresol)	0.33	500	0.33	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
2-Nitroaniline	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 UJ
2-Nitrophenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.15 U	0.16 U	0.16 U	0.14 U
3-Nitroaniline	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.29 U	0.32 U	0.33 U	0.29 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Chloroaniline	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Methylphenol (P-Cresol)	0.33	500	0.33	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Nitroaniline	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
4-Nitrophenol	--	--	--	MG/KG	0.73 U	0.82 U	0.83 U	0.72 U
Acenaphthene	20	500	98	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Acenaphthylene	100	500	107	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Acetophenone	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Anthracene	100	500	1000	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Atrazine	--	--	--	MG/KG	0.15 U	0.16 U	0.16 U	0.14 U
Benzaldehyde	--	--	--	MG/KG	0.36 UJ	0.4 UJ	0.41 UJ	0.35 UJ
Benzo(A)Anthracene	1	5.6	1	MG/KG	0.021 J	0.04 U	0.041 U	0.018 J

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Benzo(A)Pyrene	1	1	22	MG/KG	0.022 J	0.04 U	0.041 U	0.015 J
Benzo(B)Fluoranthene	1	5.6	1.7	MG/KG	0.026 J	0.04 U	0.041 U	0.021 J
Benzo(G,H,I)Perylene	100	500	1000	MG/KG	0.014 J	0.4 U	0.41 U	0.35 U
Benzo(K)Fluoranthene	0.8	56	1.7	MG/KG	0.011 J	0.04 U	0.041 U	0.0072 J
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Caprolactam	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Carbazole	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Chrysene	1	56	1	MG/KG	0.023 J	0.4 U	0.41 U	0.018 JT
Dibenz(A,H)Anthracene	0.33	0.56	1000	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
Dibenzofuran	7	350	210	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Diethyl Phthalate	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Dimethyl Phthalate	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.016 J	0.4 U	0.41 U	0.029 J
Di-N-Octylphthalate	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Fluoranthene	100	500	1000	MG/KG	0.035 J	0.4 U	0.41 U	0.024 J
Fluorene	30	500	386	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Hexachlorobenzene	0.33	6	3.2	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
Hexachlorobutadiene	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Hexachloroethane	--	--	--	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
Indeno(1,2,3-C,D)Pyrene	0.5	5.6	8.2	MG/KG	0.015 J	0.04 U	0.041 U	0.035 U
Isophorone	--	--	--	MG/KG	0.15 U	0.16 U	0.16 U	0.14 U
Naphthalene	12	500	12	MG/KG	0.016 J	0.4 U	0.41 U	0.35 U
Nitrobenzene	--	--	--	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.036 U	0.04 U	0.041 U	0.035 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.29 U	0.32 U	0.33 U	0.29 U
Phenanthrene	100	500	1000	MG/KG	0.019 J	0.4 U	0.41 U	0.021 J

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Phenol	0.33	500	0.33	MG/KG	0.36 U	0.4 U	0.41 U	0.35 U
Pyrene	100	500	1000	MG/KG	0.034 J	0.4 U	0.41 U	0.022 J

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units	Sample Designation: B-5 Sample Date: 10/10/2021 Sample Depth (ft bls): 10 - 12 Normal Sample or Field Duplicate: N	Sample Designation: B-5 Sample Date: 10/10/2021 Sample Depth (ft bls): 23 - 25 Normal Sample or Field Duplicate: N
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.41 U	0.4 U
1,4-Dioxane (P-Dioxane)	0.1	130	0.1	MG/KG	0.041 U	0.04 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.41 U	0.4 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.41 U	0.4 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.16 U	0.16 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.16 U	0.16 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.41 U	0.4 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.33 U	0.32 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.082 U	0.081 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.082 U	0.081 U
2-Chloronaphthalene	--	--	--	MG/KG	0.41 U	0.4 U
2-Chlorophenol	--	--	--	MG/KG	0.41 U	0.4 U
2-Methylnaphthalene	--	--	--	MG/KG	0.41 U	0.4 U
2-Methylphenol (O-Cresol)	0.33	500	0.33	MG/KG	0.41 U	0.4 U
2-Nitroaniline	--	--	--	MG/KG	0.41 UJ	0.4 UJ
2-Nitrophenol	--	--	--	MG/KG	0.41 U	0.4 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.16 U	0.16 U
3-Nitroaniline	--	--	--	MG/KG	0.41 U	0.4 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.33 U	0.32 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.41 U	0.4 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.41 U	0.4 U
4-Chloroaniline	--	--	--	MG/KG	0.41 U	0.4 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.41 U	0.4 U
4-Methylphenol (P-Cresol)	0.33	500	0.33	MG/KG	0.41 U	0.4 U
4-Nitroaniline	--	--	--	MG/KG	0.41 U	0.4 U
4-Nitrophenol	--	--	--	MG/KG	0.82 U	0.81 U
Acenaphthene	20	500	98	MG/KG	0.41 U	0.4 U
Acenaphthylene	100	500	107	MG/KG	0.41 U	0.4 U
Acetophenone	--	--	--	MG/KG	0.41 U	0.4 U
Anthracene	100	500	1000	MG/KG	0.41 U	0.4 U
Atrazine	--	--	--	MG/KG	0.16 U	0.16 U
Benzaldehyde	--	--	--	MG/KG	0.41 UJ	0.4 UJ
Benzo(A)Anthracene	1	5.6	1	MG/KG	0.041 U	0.04 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units	Sample Designation: B-5 Sample Date: 10/10/2021 Sample Depth (ft bls): 10 - 12 Normal Sample or Field Duplicate: N	Sample Designation: B-5 Sample Date: 10/10/2021 Sample Depth (ft bls): 23 - 25 Normal Sample or Field Duplicate: N
Benzo(A)Pyrene	1	1	22	MG/KG	0.041 U	0.04 U
Benzo(B)Fluoranthene	1	5.6	1.7	MG/KG	0.041 U	0.04 U
Benzo(G,H,I)Perylene	100	500	1000	MG/KG	0.41 U	0.4 U
Benzo(K)Fluoranthene	0.8	56	1.7	MG/KG	0.041 U	0.04 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.41 U	0.4 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.41 U	0.4 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.41 U	0.4 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.041 U	0.04 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.41 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.41 U	0.4 U
Caprolactam	--	--	--	MG/KG	0.41 U	0.4 U
Carbazole	--	--	--	MG/KG	0.41 U	0.4 U
Chrysene	1	56	1	MG/KG	0.41 UT	0.4 UT
Dibenz(A,H)Anthracene	0.33	0.56	1000	MG/KG	0.041 U	0.04 U
Dibenzofuran	7	350	210	MG/KG	0.41 U	0.4 U
Diethyl Phthalate	--	--	--	MG/KG	0.41 U	0.4 U
Dimethyl Phthalate	--	--	--	MG/KG	0.41 U	0.4 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.41 U	0.4 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.41 U	0.4 U
Fluoranthene	100	500	1000	MG/KG	0.41 U	0.4 U
Fluorene	30	500	386	MG/KG	0.41 U	0.4 U
Hexachlorobenzene	0.33	6	3.2	MG/KG	0.041 U	0.04 U
Hexachlorobutadiene	--	--	--	MG/KG	0.082 U	0.081 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.41 U	0.4 U
Hexachloroethane	--	--	--	MG/KG	0.041 U	0.04 U
Indeno(1,2,3-C,D)Pyrene	0.5	5.6	8.2	MG/KG	0.041 U	0.04 U
Isophorone	--	--	--	MG/KG	0.16 U	0.16 U
Naphthalene	12	500	12	MG/KG	0.41 U	0.4 U
Nitrobenzene	--	--	--	MG/KG	0.041 U	0.04 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.041 U	0.04 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.41 U	0.4 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.33 U	0.32 U
Phenanthrene	100	500	1000	MG/KG	0.41 U	0.4 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-5
				Sample Date:	10/10/2021	10/10/2021
				Sample Depth (ft bls):	10 - 12	23 - 25
				Normal Sample or Field Duplicate:	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units		
Phenol	0.33	500	0.33	MG/KG	0.41 U	0.4 U
Pyrene	100	500	1000	MG/KG	0.41 U	0.4 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units	Sample Designation: B-5	B-6	B-6	B-6
					Sample Date: 10/10/2021	10/09/2021	10/09/2021	10/09/2021
					Sample Depth (ft bls): 23 - 25	0.5 - 2.5	9 - 11	23 - 25
					Normal Sample or Field Duplicate: FD	N	N	N
1,2,4,5-Tetrachlorobenzene	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
1,4-Dioxane (P-Dioxane)	0.1	130	0.1	MG/KG	0.039 U	0.036 U	0.039 U	0.04 U
2,3,4,6-Tetrachlorophenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2,4,5-Trichlorophenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2,4,6-Trichlorophenol	--	--	--	MG/KG	0.16 U	0.14 UJ	0.16 U	0.16 U
2,4-Dichlorophenol	--	--	--	MG/KG	0.16 U	0.14 UJ	0.16 U	0.16 U
2,4-Dimethylphenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2,4-Dinitrophenol	--	--	--	MG/KG	0.31 U	0.29 UJ	0.32 U	0.33 U
2,4-Dinitrotoluene	--	--	--	MG/KG	0.079 U	0.073 UJ	0.08 U	0.082 U
2,6-Dinitrotoluene	--	--	--	MG/KG	0.079 U	0.073 UJ	0.08 U	0.082 U
2-Chloronaphthalene	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2-Chlorophenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2-Methylnaphthalene	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2-Methylphenol (O-Cresol)	0.33	500	0.33	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
2-Nitroaniline	--	--	--	MG/KG	0.39 UJ	0.36 UJ	0.39 U	0.4 U
2-Nitrophenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
3,3'-Dichlorobenzidine	--	--	--	MG/KG	0.16 U	0.14 U	0.16 U	0.16 U
3-Nitroaniline	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
4,6-Dinitro-2-Methylphenol	--	--	--	MG/KG	0.31 U	0.29 UJ	0.32 U	0.33 U
4-Bromophenyl Phenyl Ether	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
4-Chloro-3-Methylphenol	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
4-Chloroaniline	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
4-Chlorophenyl Phenyl Ether	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
4-Methylphenol (P-Cresol)	0.33	500	0.33	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
4-Nitroaniline	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
4-Nitrophenol	--	--	--	MG/KG	0.79 U	0.73 U	0.8 U	0.82 U
Acenaphthene	20	500	98	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Acenaphthylene	100	500	107	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Acetophenone	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Anthracene	100	500	1000	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Atrazine	--	--	--	MG/KG	0.16 U	0.14 U	0.16 U	0.16 U
Benzaldehyde	--	--	--	MG/KG	0.39 UJ	0.36 UJ	0.39 UJ	0.4 UJ
Benzo(A)Anthracene	1	5.6	1	MG/KG	0.039 U	0.018 J-	0.039 U	0.04 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-6	B-6	B-6
				Sample Date:	10/10/2021	10/09/2021	10/09/2021	10/09/2021
				Sample Depth (ft bls):	23 - 25	0.5 - 2.5	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	FD	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Benzo(A)Pyrene	1	1	22	MG/KG	0.039 U	0.015 J-	0.039 U	0.04 U
Benzo(B)Fluoranthene	1	5.6	1.7	MG/KG	0.039 U	0.02 J-	0.039 U	0.04 U
Benzo(G,H,I)Perylene	100	500	1000	MG/KG	0.39 U	0.011 J-	0.39 U	0.4 U
Benzo(K)Fluoranthene	0.8	56	1.7	MG/KG	0.039 U	0.008 J-	0.039 U	0.04 U
Benzyl Butyl Phthalate	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Biphenyl (Diphenyl)	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Bis(2-Chloroethoxy) Methane	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	--	--	--	MG/KG	0.039 U	0.036 UJ	0.039 U	0.04 U
Bis(2-Chloroisopropyl) Ether	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
Bis(2-Ethylhexyl) Phthalate	--	--	--	MG/KG	0.39 U	0.023 J-	0.39 U	0.4 U
Caprolactam	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
Carbazole	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Chrysene	1	56	1	MG/KG	0.39 UT	0.017 J-	0.39 U	0.4 U
Dibenz(A,H)Anthracene	0.33	0.56	1000	MG/KG	0.039 U	0.036 UJ	0.039 U	0.04 U
Dibenzofuran	7	350	210	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Diethyl Phthalate	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Dimethyl Phthalate	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Di-N-Butyl Phthalate	--	--	--	MG/KG	0.39 U	0.022 J-	0.39 U	0.4 U
Di-N-Octylphthalate	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
Fluoranthene	100	500	1000	MG/KG	0.39 U	0.027 J-	0.39 U	0.4 U
Fluorene	30	500	386	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Hexachlorobenzene	0.33	6	3.2	MG/KG	0.039 U	0.036 U	0.039 U	0.04 U
Hexachlorobutadiene	--	--	--	MG/KG	0.079 U	0.073 UJ	0.08 U	0.082 U
Hexachlorocyclopentadiene	--	--	--	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
Hexachloroethane	--	--	--	MG/KG	0.039 U	0.036 UJ	0.039 U	0.04 U
Indeno(1,2,3-C,D)Pyrene	0.5	5.6	8.2	MG/KG	0.039 U	0.036 U	0.039 U	0.04 U
Isophorone	--	--	--	MG/KG	0.16 U	0.14 UJ	0.16 U	0.16 U
Naphthalene	12	500	12	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Nitrobenzene	--	--	--	MG/KG	0.039 U	0.036 UJ	0.039 U	0.04 U
N-Nitrosodi-N-Propylamine	--	--	--	MG/KG	0.039 U	0.036 UJ	0.039 U	0.04 U
N-Nitrosodiphenylamine	--	--	--	MG/KG	0.39 U	0.36 UJ	0.39 U	0.4 U
Pentachlorophenol	0.8	6.7	0.8	MG/KG	0.31 U	0.29 UJ	0.32 U	0.33 U
Phenanthrene	100	500	1000	MG/KG	0.39 U	0.02 J-	0.39 U	0.4 U

Table 4. Summary of Semivolatile Organic Compounds in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-6	B-6	B-6
				Sample Date:	10/10/2021	10/09/2021	10/09/2021	10/09/2021
				Sample Depth (ft bls):	23 - 25	0.5 - 2.5	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	FD	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Phenol	0.33	500	0.33	MG/KG	0.39 U	0.36 U	0.39 U	0.4 U
Pyrene	100	500	1000	MG/KG	0.39 U	0.025 J-	0.39 U	0.4 U

Table 5. Summary of Metals in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-4	B-4	B-4	B-5	B-5	B-5
			Sample Date:		10/09/2021	10/09/2021	10/09/2021	10/10/2021	10/10/2021	10/10/2021
			Sample Depth (ft bls):		0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5	10 - 12	23 - 25
			Normal Sample or Field Duplicate:		N	N	N	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units						
Aluminum	--	--	--	MG/KG	8810	8570	3610	7640	4980	3000
Antimony	--	--	--	MG/KG	0.47 J	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U
Arsenic	**13**	16	16	MG/KG	5.9	**15.1**	0.37 J	2.9	0.96 J	0.65 J
Barium	350	400	820	MG/KG	86.1	66.3	14.3	64.5	19	9.4
Beryllium	7.2	590	47	MG/KG	0.53	0.52	0.24 J	0.45	0.095 J	0.15 J
Cadmium	2.5	9.3	7.5	MG/KG	0.27 J	0.22 J	1.2 U	1.1 U	1.1 U	1.2 U
Calcium	--	--	--	MG/KG	5890	2280	493	1240	599	323 J
Chromium, Total	30	1500	--	MG/KG	20.9	13.9	8.3	16.1	11.1	9
Cobalt	--	--	--	MG/KG	6.7	5.1	2.9	6.9	2.6	2.5
Copper	50	270	1720	MG/KG	26.7	35.8	10.2	24.4	8.5	7.3
Iron	--	--	--	MG/KG	23700	17400	6120	16400	5920	6570
Lead	**63**	1000	450	MG/KG	**88.8**	10.3	2.3	59.7	4	2
Magnesium	--	--	--	MG/KG	2290	1660	1770	2020	1670	1810
Manganese	1600	10000	2000	MG/KG	317	954	69.9	506	62.9	64.9
Mercury	0.18	2.8	0.73	MG/KG	0.028	0.02 U	0.019 U	0.081	0.021 U	0.018 U
Nickel	30	310	130	MG/KG	14.2	13	13.1	13.3	11.9	13.7
Potassium	--	--	--	MG/KG	980	884	399	851	371	403
Selenium	3.9	1500	4	MG/KG	0.38 J	0.75 J	1.5 U	0.28 J	1.4 U	1.5 U
Silver	2	1500	8.3	MG/KG	1.4	1.1 U	1.2 U	1.1 U	1.1 U	1.2 U
Sodium	--	--	--	MG/KG	216	133	71.3 J	149	82.7 J	65 J
Thallium	--	--	--	MG/KG	0.11 J	0.23 J	0.47 U	0.099 J	0.46 U	0.47 U
Vanadium	--	--	--	MG/KG	26.1	19.4	9.1	25.8	9.3	8.7 J
Zinc	109	10000	2480	MG/KG	87.3	27.7	16.4	51.6	16.2	11.3

Table 5. Summary of Metals in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-5	B-6	B-6	B-6
			Sample Date:		10/10/2021	10/09/2021	10/09/2021	10/09/2021
			Sample Depth (ft bls):		23 - 25	0.5 - 2.5	9 - 11	23 - 25
			Normal Sample or Field Duplicate:		FD	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aluminum	--	--	--	MG/KG	2970	7620	6620	3260
Antimony	--	--	--	MG/KG	1.1 U	0.2 J	1.1 U	1.2 U
Arsenic	**13**	16	16	MG/KG	1.4	**13.5 J**	1.6	1 J
Barium	350	400	820	MG/KG	10.5	63.6	13.5	13.1
Beryllium	7.2	590	47	MG/KG	0.25 J	0.7	0.33 J	0.34 J
Cadmium	2.5	9.3	7.5	MG/KG	1.1 U	0.18 J	1.1 U	1.2 U
Calcium	--	--	--	MG/KG	696 J	3380	441	530
Chromium, Total	30	1500	--	MG/KG	10.2	24	14.4	10
Cobalt	--	--	--	MG/KG	2.8	7.1	4.9	3.6
Copper	50	270	1720	MG/KG	8.1	27.6	9.8	9.4
Iron	--	--	--	MG/KG	9810	29900 J	15900	8710
Lead	**63**	1000	450	MG/KG	2.6	28.2	3.6	2.5
Magnesium	--	--	--	MG/KG	1730	1730 J	1470	1510
Manganese	1600	10000	2000	MG/KG	77.3	484 J	157	83.8
Mercury	0.18	2.8	0.73	MG/KG	0.02 U	0.029	0.02 U	0.02 U
Nickel	30	310	130	MG/KG	15.3	16.3	14.1	13.2
Potassium	--	--	--	MG/KG	350	819	278	396
Selenium	3.9	1500	4	MG/KG	1.4 U	0.46 J	1.4 U	1.5 U
Silver	2	1500	8.3	MG/KG	1.1 U	1.1 U	1.1 U	1.2 U
Sodium	--	--	--	MG/KG	62.2 J	176	72.3 J	58.6 J
Thallium	--	--	--	MG/KG	0.45 U	0.35 J	0.049 J	0.47 U
Vanadium	--	--	--	MG/KG	13.4 J	27.1 J	18.5	17.2
Zinc	109	10000	2480	MG/KG	14.3	56.5	14.2	14.9

Table 6. Summary of Polychlorinated Biphenyls in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-4	B-4	B-4	B-5
			Sample Date:		10/09/2021	10/09/2021	10/09/2021	10/10/2021
			Sample Depth (ft bls):		0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
			Normal Sample or Field Duplicate:		N	N	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1262 (Aroclor 1262)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
PCB-1268 (Aroclor 1268)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U

Table 6. Summary of Polychlorinated Biphenyls in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-5	B-5	B-5	B-6
			Sample Date:		10/10/2021	10/10/2021	10/10/2021	10/09/2021
			Sample Depth (ft bls):		10 - 12	23 - 25	23 - 25	0.5 - 2.5
			Normal Sample or Field Duplicate:		N	N	FD	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 UT
PCB-1262 (Aroclor 1262)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
PCB-1268 (Aroclor 1268)	--	--	--	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.082 U	0.081 U	0.079 U	0.073 U

Table 6. Summary of Polychlorinated Biphenyls in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-6	B-6
				Sample Date:	10/09/2021	10/09/2021
				Sample Depth (ft bls):	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units		
PCB-1016 (Aroclor 1016)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1221 (Aroclor 1221)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1232 (Aroclor 1232)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1242 (Aroclor 1242)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1248 (Aroclor 1248)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1254 (Aroclor 1254)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1260 (Aroclor 1260)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1262 (Aroclor 1262)	--	--	--	MG/KG	0.08 U	0.082 U
PCB-1268 (Aroclor 1268)	--	--	--	MG/KG	0.08 U	0.082 U
Polychlorinated Biphenyl (PCBs)	0.1	1	3.2	MG/KG	0.08 U	0.082 U

Table 7. Summary of Pesticides in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-4	B-4	B-4	B-5
			Sample Date:		10/09/2021	10/09/2021	10/09/2021	10/10/2021
			Sample Depth (ft bls):		0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
			Normal Sample or Field Duplicate:		N	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aldrin	0.005	0.68	0.19	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	3.4	0.02	MG/KG	0.0022 U	0.0024 U	0.0025 U	0.0021 U
Alpha Endosulfan	2.4	200	102	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	3	0.09	MG/KG	0.0022 U	0.0024 U	0.0025 U	0.0021 U
Beta Endosulfan	2.4	200	102	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Chlordane (Technical)	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	500	0.25	MG/KG	0.0022 U	0.0024 U	0.0025 U	0.0021 U
Dieldrin	0.005	1.4	0.1	MG/KG	0.0022 U	0.0024 U	0.0025 U	0.0021 U
Endosulfan Sulfate	2.4	200	1000	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Endrin	0.014	89	0.06	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Endrin Aldehyde	--	--	--	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Endrin Ketone	--	--	--	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Gamma Bhc (Lindane)	0.1	9.2	0.1	MG/KG	0.0022 U	0.0024 U	0.0025 U	0.0021 U
Heptachlor	0.042	15	0.38	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Heptachlor Epoxide	--	--	--	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Methoxychlor	--	--	--	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
4,4'-DDD	0.0033	92	14	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
4,4'-DDE	**0.0033**	62	17	MG/KG	**0.0057 J**	0.0082 U	0.0083 U	0.0072 U
4,4'-DDT	**0.0033**	47	136	MG/KG	0.0073 U	0.0082 U	0.0083 U	0.0072 U
Toxaphene	--	--	--	MG/KG	0.073 U	0.082 U	0.083 U	0.072 U

Table 7. Summary of Pesticides in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-5
				Sample Date:	10/10/2021	10/10/2021
				Sample Depth (ft bls):	10 - 12	23 - 25
				Normal Sample or Field Duplicate:	N	N
Parameters	NYSDEC Part 375 Unresticted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units		
Aldrin	0.005	0.68	0.19	MG/KG	0.0082 U	0.0081 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	3.4	0.02	MG/KG	0.0025 U	0.0024 U
Alpha Endosulfan	2.4	200	102	MG/KG	0.0082 U	0.0081 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	3	0.09	MG/KG	0.0025 U	0.0024 U
Beta Endosulfan	2.4	200	102	MG/KG	0.0082 U	0.0081 U
Chlordane (Technical)	--	--	--	MG/KG	0.082 U	0.081 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	500	0.25	MG/KG	0.0025 U	0.0024 U
Dieldrin	0.005	1.4	0.1	MG/KG	0.0025 U	0.0024 U
Endosulfan Sulfate	2.4	200	1000	MG/KG	0.0082 U	0.0081 U
Endrin	0.014	89	0.06	MG/KG	0.0082 U	0.0081 U
Endrin Aldehyde	--	--	--	MG/KG	0.0082 U	0.0081 U
Endrin Ketone	--	--	--	MG/KG	0.0082 U	0.0081 U
Gamma Bhc (Lindane)	0.1	9.2	0.1	MG/KG	0.0025 U	0.0024 U
Heptachlor	0.042	15	0.38	MG/KG	0.0082 U	0.0081 U
Heptachlor Epoxide	--	--	--	MG/KG	0.0082 U	0.0081 U
Methoxychlor	--	--	--	MG/KG	0.0082 U	0.0081 U
4,4'-DDD	0.0033	92	14	MG/KG	0.0082 U	0.0081 U
4,4'-DDE	**0.0033**	62	17	MG/KG	0.0082 U	0.0081 U
4,4'-DDT	**0.0033**	47	136	MG/KG	0.0082 U	0.0081 U
Toxaphene	--	--	--	MG/KG	0.082 U	0.081 U

Table 7. Summary of Pesticides in Soil, 458 East 99th Street, Brooklyn, New York

			Sample Designation:		B-5	B-6	B-6	B-6
			Sample Date:		10/10/2021	10/09/2021	10/09/2021	10/09/2021
			Sample Depth (ft bls):		23 - 25	0.5 - 2.5	9 - 11	23 - 25
			Normal Sample or Field Duplicate:		FD	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO	Units				
Aldrin	0.005	0.68	0.19	MG/KG	0.0079 U	0.073 U	0.008 U	0.0082 U
Alpha Bhc (Alpha Hexachlorocyclohexane)	0.02	3.4	0.02	MG/KG	0.0024 U	0.022 U	0.0024 U	0.0025 U
Alpha Endosulfan	2.4	200	102	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
Beta Bhc (Beta Hexachlorocyclohexane)	0.036	3	0.09	MG/KG	0.0024 U	0.022 U	0.0024 U	0.0025 UT
Beta Endosulfan	2.4	200	102	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
Chlordane (Technical)	--	--	--	MG/KG	0.079 U	0.73 U	0.08 U	0.082 U
Delta BHC (Delta Hexachlorocyclohexane)	0.04	500	0.25	MG/KG	0.0024 U	0.022 U	0.0024 U	0.0025 UT
Dieldrin	0.005	1.4	0.1	MG/KG	0.0024 U	0.022 U	0.0024 U	0.0025 U
Endosulfan Sulfate	2.4	200	1000	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
Endrin	0.014	89	0.06	MG/KG	0.0079 U	0.073 U	0.008 U	0.0082 U
Endrin Aldehyde	--	--	--	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
Endrin Ketone	--	--	--	MG/KG	0.0079 U	0.073 U	0.008 U	0.0082 U
Gamma Bhc (Lindane)	0.1	9.2	0.1	MG/KG	0.0024 U	0.022 U	0.0024 U	0.0025 UT
Heptachlor	0.042	15	0.38	MG/KG	0.0079 U	0.073 U	0.008 U	0.0082 UT
Heptachlor Epoxide	--	--	--	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
Methoxychlor	--	--	--	MG/KG	0.0079 U	0.073 UT	0.008 U	0.0082 U
4,4'-DDD	0.0033	92	14	MG/KG	0.0079 U	0.073 U	0.008 U	0.0082 U
4,4'-DDE	**0.0033**	62	17	MG/KG	0.0028 J	**1.9 T**	**0.0095**	0.0082 U
4,4'-DDT	**0.0033**	47	136	MG/KG	**0.0048 J**	**1.4**	**0.03**	0.0082 U
Toxaphene	--	--	--	MG/KG	0.079 U	0.73 U	0.08 U	0.082 U

Table 8. Summary of Per- and Polyfluoroalkyl Substances in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-4	B-4	B-4	B-5
				Sample Date:	10/09/2021	10/09/2021	10/09/2021	10/10/2021
				Sample Depth (ft bls):	0.5 - 2.5	10 - 12	23 - 25	0.5 - 2.5
				Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use GV	NYSDEC Part 375 Commercial GV	NYSDEC Part 375 Protection of Groundwater GV	Units				
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.41 U	0.48 U	0.5 U	0.42 U
Perfluorobutanoic Acid	--	--	--	UG/KG	0.82 U	0.96 U	0.99 U	0.84 U
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorooctanesulfonic acid (PFOS)	0.88	440	3.7	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorooctanoic acid (PFOA)	0.66	500	1.1	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.21 U	0.24 U	0.25 U	0.21 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.62 U	0.72 U	0.74 U	0.63 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.62 U	0.72 U	0.74 U	0.63 U

Table 8. Summary of Per- and Polyfluoroalkyl Substances in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-5
				Sample Date:	10/10/2021	10/10/2021
				Sample Depth (ft bls):	10 - 12	23 - 25
				Normal Sample or Field Duplicate:	N	N
Parameters	NYSDEC Part 375 Unrestricted Use GV	NYSDEC Part 375 Commercial GV	NYSDEC Part 375 Protection of Groundwater GV	Units		
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.25 U	0.25 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.49 U	0.5 U
Perfluorobutanoic Acid	--	--	--	UG/KG	0.98 U	1.01 U
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorooctanesulfonic acid (PFOS)	0.88	440	3.7	UG/KG	0.25 U	0.25 U
Perfluorooctanoic acid (PFOA)	0.66	500	1.1	UG/KG	0.25 U	0.25 U
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.25 U	0.25 U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.25 U	0.25 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.74 U	0.76 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.74 U	0.76 U

Table 8. Summary of Per- and Polyfluoroalkyl Substances in Soil, 458 East 99th Street, Brooklyn, New York

				Sample Designation:	B-5	B-6	B-6	B-6
				Sample Date:	10/10/2021	10/09/2021	10/09/2021	10/09/2021
				Sample Depth (ft bls):	23 - 25	0.5 - 2.5	9 - 11	23 - 25
				Normal Sample or Field Duplicate:	FD	N	N	N
Parameters	NYSDEC Part 375 Unrestricted Use GV	NYSDEC Part 375 Commercial GV	NYSDEC Part 375 Protection of Groundwater GV	Units				
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorobutanesulfonic acid (PFBS)	--	--	--	UG/KG	0.49 U	0.41 U	0.49 U	0.5 U
Perfluorobutanoic Acid	--	--	--	UG/KG	0.98 U	0.81 U	0.99 U	1.01 U
Perfluorodecane Sulfonic Acid	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorodecanoic acid (PFDA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorododecanoic acid (PFDoA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluoroheptane Sulfonate (PFHPS)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluoroheptanoic acid (PFHpA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorohexanesulfonic acid (PFHxS)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorohexanoic acid (PFHxA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorononanoic acid (PFNA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorooctane Sulfonamide (FOSA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorooctanesulfonic acid (PFOS)	0.88	440	3.7	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorooctanoic acid (PFOA)	0.66	500	1.1	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluoropentanoic Acid (PFPeA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorotetradecanoic acid (PFTA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluorotridecanoic Acid (PFTriA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Perfluoroundecanoic Acid (PFUnA)	--	--	--	UG/KG	0.25 U	0.2 U	0.25 U	0.25 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	--	--	UG/KG	0.74 U	0.61 U	0.74 U	0.76 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	--	--	UG/KG	0.74 U	0.61 U	0.74 U	0.76 U

Table 9. Summary of Volatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Designation:			GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Date:			10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	N	N	N	FD
1,1,1-Trichloroethane (TCA)	**5**	UG/L	1 U	**5.3**	1 U	1 U	**12**	**7.7**	**7.8**
1,1,2,2-Tetrachloroethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,1-Dichloroethane	**5**	UG/L	1 U	2.6	1 U	2.1	**59**	**26**	**27**
1,1-Dichloroethene	**5**	UG/L	1 U	0.99 J	1 U	1 U	1.4	0.85 J	0.88 J
1,2,3-Trichlorobenzene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	0.4 J	1 U	1 U	1 U
1,2-Dichloroethane	**0.6**	UG/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Benzene	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromochloromethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromodichloromethane	50	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromoform	50	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bromomethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Carbon Disulfide	60	UG/L	1 U	1 U	43	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Chlorobenzene	5	UG/L	1 U	1 U	1 U	0.45 J	1 UJ	1 UJ	1 UJ
Chloroethane	**5**	UG/L	1 U	1 U	1 U	1 U	**43**	**19**	**19**
Chloroform	7	UG/L	1 U	1 U	1	1 U	0.48 J	0.4 J	0.53 J
Chloromethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	**5**	UG/L	3.2	4	0.45 J	3.7	**32**	**16**	**17**
Cis-1,3-Dichloropropene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Cyclohexane	--	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 9. Summary of Volatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Designation:			GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Date:			10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	N	N	N	FD
Dibromochloromethane	50	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Ethylbenzene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
m,p-Xylene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methyl Acetate	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 UT	5 U	5 U	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Methylene Chloride	5	UG/L	1 U	1 U	1 U	1 U	1.5 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Styrene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	10	UG/L	0.38 J	1 U	1 U	1 U	1 U	1 U	1 U
Tetrachloroethene (PCE)	**5**	UG/L	**11**	**10**	**8.5**	0.39 J	**6.8**	0.73 J	0.71 J
Toluene	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	UG/L	1 U	0.44 J	0.39 J	0.66 J	0.32 J	0.36 J	0.44 J
Trans-1,3-Dichloropropene	--	UG/L	1 U	1 U	1 U	1 U	1 UJ	1 UJ	1 UJ
Trichloroethene (TCE)	**5**	UG/L	3.5	**59**	0.71 J	2.1	**13**	**12**	**12**
Trichlorofluoromethane	5	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Vinyl Chloride	**2**	UG/L	0.92 J	1 U	1 U	0.77 J	**23**	**7.6**	**7.7**

Table 9. Summary of Volatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-7S	GW-7D	GW-8S	GW-8D
Sample Designation:			GW-7S	GW-7D	GW-8S	GW-8D
Sample Date:			10/17/2021	10/17/2021	10/23/2021	10/23/2021
Normal Sample or Field Duplicate:			N	N	N	N
1,1,1-Trichloroethane (TCA)	**5**	UG/L	0.61 J	**62**	1 U	4
1,1,2,2-Tetrachloroethane	5	UG/L	1 U	1 U	1 U	1 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	5	UG/L	1 U	1 U	1 U	1 U
1,1,2-Trichloroethane	1	UG/L	1 U	1 U	1 U	1 U
1,1-Dichloroethane	**5**	UG/L	**6.1**	**370**	1 U	**5.2**
1,1-Dichloroethene	**5**	UG/L	1 U	**6.8**	1 U	0.6 J
1,2,3-Trichlorobenzene	5	UG/L	1 U	1 U	1 U	1 U
1,2,4-Trichlorobenzene	5	UG/L	1 U	1 U	1 U	1 U
1,2-Dibromo-3-Chloropropane	0.04	UG/L	1 U	1 U	1 U	1 U
1,2-Dibromoethane (Ethylene Dibromide)	0.0006	UG/L	1 U	1 U	1 U	1 U
1,2-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	1 U
1,2-Dichloroethane	**0.6**	UG/L	1 UJ	**1.6**	1 U	1 U
1,2-Dichloropropane	1	UG/L	1 U	1 U	1 U	1 U
1,3-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	1 U
1,4-Dichlorobenzene	3	UG/L	1 U	1 U	1 U	1 U
2-Hexanone	50	UG/L	5 U	5 U	5 U	5 U
Acetone	50	UG/L	5 U	5 U	5 U	5 U
Benzene	1	UG/L	1 U	1 U	1 U	1 U
Bromochloromethane	5	UG/L	1 U	1 U	1 U	1 U
Bromodichloromethane	50	UG/L	1 U	1 U	1 U	1 U
Bromoform	50	UG/L	1 U	1 U	1 U	1 U
Bromomethane	5	UG/L	1 U	1 U	1 U	1 U
Carbon Disulfide	60	UG/L	1 U	1 U	1 U	1 U
Carbon Tetrachloride	5	UG/L	1 U	1 U	1 U	1 U
Chlorobenzene	5	UG/L	1 UJ	1 U	1 U	1 U
Chloroethane	**5**	UG/L	1.8	**310 D**	1 U	1 U
Chloroform	7	UG/L	1 U	0.36 J	0.66 J	1 U
Chloromethane	5	UG/L	1 U	1 U	1 U	1 U
Cis-1,2-Dichloroethylene	**5**	UG/L	3.1	**340**	1.3	3.1
Cis-1,3-Dichloropropene	5	UG/L	1 U	1 U	1 U	1 U
Cyclohexane	--	UG/L	1 U	1 U	1 U	1 U

Table 9. Summary of Volatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-7S	GW-7D	GW-8S	GW-8D
Sample Designation:			GW-7S	GW-7D	GW-8S	GW-8D
Sample Date:			10/17/2021	10/17/2021	10/23/2021	10/23/2021
Normal Sample or Field Duplicate:			N	N	N	N
Dibromochloromethane	50	UG/L	1 U	1 U	1 U	1 U
Dichlorodifluoromethane	5	UG/L	1 U	1 U	1 U	1 U
Ethylbenzene	5	UG/L	1 U	1 U	1 U	1 U
Isopropylbenzene (Cumene)	5	UG/L	1 U	1 U	1 U	1 U
m,p-Xylene	5	UG/L	1 U	1 U	1 U	1 U
Methyl Acetate	--	UG/L	5 U	5 U	5 U	5 U
Methyl Ethyl Ketone (2-Butanone)	50	UG/L	5 U	5 U	5 U	5 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	--	UG/L	5 U	5 U	5 U	5 U
Methylcyclohexane	--	UG/L	1 U	1 U	1 U	1 U
Methylene Chloride	5	UG/L	1 U	4.2 U	1 U	1 U
O-Xylene (1,2-Dimethylbenzene)	5	UG/L	1 U	1.7	1 U	1 U
Styrene	5	UG/L	1 U	1 U	1 U	1 U
Tert-Butyl Methyl Ether	10	UG/L	1 U	1 U	0.74 J	1 U
Tetrachloroethene (PCE)	**5**	UG/L	0.92 J	1.6	**5.5**	2.9
Toluene	5	UG/L	1 U	1 U	1 U	1 U
Trans-1,2-Dichloroethene	5	UG/L	1 U	1.6	1 U	1 U
Trans-1,3-Dichloropropene	--	UG/L	1 UJ	1 U	1 U	1 U
Trichloroethene (TCE)	**5**	UG/L	2.2	**34**	1.4	**12**
Trichlorofluoromethane	5	UG/L	1 U	1 U	1 U	1 U
Vinyl Chloride	**2**	UG/L	0.94 J	**180 D**	0.89 J	1.4

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Designation:			GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Date:			10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	N	N	N	FD
1,2,4,5-Tetrachlorobenzene	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	0.2 UJ	0.2 U	0.2 U	0.33	0.2 U	0.2 U	0.2 U
2,3,4,6-Tetrachlorophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2,6-Dinitrotoluene	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
2-Chloronaphthalene	10	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Chlorophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylnaphthalene	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
2-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
3-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chloroaniline	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
4-Nitrophenol	--	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Acenaphthene	20	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acenaphthylene	20	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Acetophenone	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Anthracene	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Atrazine	7.5	UG/L	2 UT	2 UT	2 UT	2 UT	2 U	2 U	2 U

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Designation:			GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
Sample Date:			10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	N	N	N	FD
Benzaldehyde	--	UG/L	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(A)Anthracene	0.002	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(A)Pyrene	0	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzo(B)Fluoranthene	0.002	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Benzo(G,H,I)Perylene	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Benzo(K)Fluoranthene	0.002	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Caprolactam	--	UG/L	10 UT	10 U	10 U	10 U	10 U	10 U	10 U
Carbazole	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Chrysene	0.002	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Dibenz(A,H)Anthracene	--	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Dibenzofuran	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Diethyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Dimethyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	UG/L	10 UT	10 U	10 U	10 U	10 U	10 U	10 U
Di-N-Octylphthalate	--	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluoranthene	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Fluorene	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorobutadiene	0.5	UG/L	1 UT	1 U	1 U	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Hexachloroethane	5	UG/L	2 UT	2 U	2 U	2 U	2 U	2 U	2 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Isophorone	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Naphthalene	10	UG/L	2 U	2 U	2 U	2 U	2 U	2 U	2 U
Nitrobenzene	0.4	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

		Sample Designation:	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D	GW-6D
		Sample Date:	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021	10/17/2021
		Normal Sample or Field Duplicate:	N	N	N	N	N	N	FD
Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units							
N-Nitrosodi-N-Propylamine	--	UG/L	1 U	1 U	1 U	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pentachlorophenol	1	UG/L	20 U	20 U	20 U	20 U	20 U	20 U	20 U
Phenanthrene	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Phenol	1	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U
Pyrene	50	UG/L	10 U	10 U	10 U	10 U	10 U	10 U	10 U

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-7S	GW-7D	GW-8S	GW-8D
Sample Designation:			GW-7S	GW-7D	GW-8S	GW-8D
Sample Date:			10/17/2021	10/17/2021	10/23/2021	10/23/2021
Normal Sample or Field Duplicate:			N	N	N	N
1,2,4,5-Tetrachlorobenzene	5	UG/L	10 U	10 U	10 U	10 U
1,4-Dioxane (P-Dioxane)	0.35	UG/L	0.2 U	0.2 U	0.2 U	0.2 U
2,3,4,6-Tetrachlorophenol	--	UG/L	10 U	10 U	10 U	10 U
2,4,5-Trichlorophenol	--	UG/L	10 U	10 U	10 U	10 U
2,4,6-Trichlorophenol	--	UG/L	10 U	10 U	10 U	10 U
2,4-Dichlorophenol	5	UG/L	10 U	10 U	10 U	10 U
2,4-Dimethylphenol	50	UG/L	10 U	10 U	10 U	10 U
2,4-Dinitrophenol	10	UG/L	20 U	20 U	20 U	20 U
2,4-Dinitrotoluene	5	UG/L	2 U	2 U	2 U	2 U
2,6-Dinitrotoluene	5	UG/L	2 U	2 U	2 U	2 U
2-Chloronaphthalene	10	UG/L	10 U	10 U	10 U	10 U
2-Chlorophenol	--	UG/L	10 U	10 U	10 U	10 U
2-Methylnaphthalene	--	UG/L	10 U	10 U	10 U	10 U
2-Methylphenol (O-Cresol)	--	UG/L	10 U	10 U	10 U	10 U
2-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U
2-Nitrophenol	--	UG/L	10 U	10 U	10 U	10 U
3,3'-Dichlorobenzidine	5	UG/L	10 U	10 U	10 U	10 U
3-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U
4,6-Dinitro-2-Methylphenol	--	UG/L	20 U	20 U	20 U	20 U
4-Bromophenyl Phenyl Ether	--	UG/L	10 U	10 U	10 U	10 U
4-Chloro-3-Methylphenol	--	UG/L	10 U	10 U	10 U	10 U
4-Chloroaniline	5	UG/L	10 U	10 U	10 U	10 U
4-Chlorophenyl Phenyl Ether	--	UG/L	10 U	10 U	10 U	10 U
4-Methylphenol (P-Cresol)	--	UG/L	10 U	10 U	10 U	10 U
4-Nitroaniline	5	UG/L	10 U	10 U	10 U	10 U
4-Nitrophenol	--	UG/L	20 U	20 U	20 U	20 U
Acenaphthene	20	UG/L	10 U	10 U	10 U	10 U
Acenaphthylene	20	UG/L	10 U	10 U	10 U	10 U
Acetophenone	--	UG/L	10 U	10 U	10 U	10 U
Anthracene	50	UG/L	10 U	10 U	10 U	10 U
Atrazine	7.5	UG/L	2 U	2 U	2 UT	2 UT

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units	GW-7S	GW-7D	GW-8S	GW-8D
Sample Designation:			GW-7S	GW-7D	GW-8S	GW-8D
Sample Date:			10/17/2021	10/17/2021	10/23/2021	10/23/2021
Normal Sample or Field Duplicate:			N	N	N	N
Benzaldehyde	--	UG/L	10 UJ	10 UJ	10 UJ	10 UJ
Benzo(A)Anthracene	0.002	UG/L	1 U	1 U	1 U	1 U
Benzo(A)Pyrene	0	UG/L	1 U	1 U	1 U	1 U
Benzo(B)Fluoranthene	0.002	UG/L	2 U	2 U	2 U	2 U
Benzo(G,H,I)Perylene	--	UG/L	10 U	10 U	10 U	10 U
Benzo(K)Fluoranthene	0.002	UG/L	1 U	1 U	1 U	1 U
Benzyl Butyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U
Biphenyl (Diphenyl)	5	UG/L	10 U	10 U	10 U	10 U
Bis(2-Chloroethoxy) Methane	5	UG/L	10 U	10 U	10 U	10 U
Bis(2-Chloroethyl) Ether (2-Chloroethyl Ether)	1	UG/L	1 U	1 U	1 U	1 U
Bis(2-Chloroisopropyl) Ether	5	UG/L	10 U	10 U	10 U	10 U
Bis(2-Ethylhexyl) Phthalate	5	UG/L	2 U	2 U	2 U	2 U
Caprolactam	--	UG/L	10 U	10 U	10 U	10 U
Carbazole	--	UG/L	10 U	10 U	10 U	10 U
Chrysene	0.002	UG/L	2 U	2 U	2 U	2 U
Dibenz(A,H)Anthracene	--	UG/L	1 U	1 U	1 U	1 U
Dibenzofuran	--	UG/L	10 U	10 U	10 U	10 U
Diethyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U
Dimethyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U
Di-N-Butyl Phthalate	50	UG/L	10 U	10 U	10 U	10 U
Di-N-Octylphthalate	--	UG/L	10 U	10 U	10 U	10 U
Fluoranthene	50	UG/L	10 U	10 U	10 U	10 U
Fluorene	50	UG/L	10 U	10 U	10 U	10 U
Hexachlorobenzene	0.04	UG/L	1 U	1 U	1 U	1 U
Hexachlorobutadiene	0.5	UG/L	1 U	1 U	1 U	1 U
Hexachlorocyclopentadiene	5	UG/L	10 U	10 U	10 U	10 U
Hexachloroethane	5	UG/L	2 U	2 U	2 U	2 U
Indeno(1,2,3-C,D)Pyrene	0.002	UG/L	2 U	2 U	2 U	2 U
Isophorone	50	UG/L	10 U	10 U	10 U	10 U
Naphthalene	10	UG/L	2 U	2 U	2 U	2 U
Nitrobenzene	0.4	UG/L	1 U	1 U	1 U	1 U

Table 10. Summary of Semivolatile Organic Compounds in Groundwater, 458 East 99th Street, Brooklyn, New York

		Sample Designation:	GW-7S	GW-7D	GW-8S	GW-8D
		Sample Date:	10/17/2021	10/17/2021	10/23/2021	10/23/2021
		Normal Sample or Field Duplicate:	N	N	N	N
Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units				
N-Nitrosodi-N-Propylamine	--	UG/L	1 U	1 U	1 U	1 U
N-Nitrosodiphenylamine	50	UG/L	10 U	10 U	10 U	10 U
Pentachlorophenol	1	UG/L	20 U	20 U	20 U	20 U
Phenanthrene	50	UG/L	10 U	10 U	10 U	10 U
Phenol	1	UG/L	10 U	10 U	10 U	10 U
Pyrene	50	UG/L	10 U	10 U	10 U	10 U

Table 11. Summary of Metals in Groundwater, 458 East 99th Street, Brooklyn, New York

Sample Designation:			GW-4S	GW-4S	GW-4D	GW-4D	GW-5S	GW-5S	GW-5D	GW-5D	GW-6S
Sample Date:			10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	N	N	N	N	N	N
Total or Dissolved:			Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total
Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units									
Aluminum	--	UG/L	227	40 UJ	418	40 UJ	1240	40 UJ	677	40 UJ	602
Antimony	3	UG/L	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U
Arsenic	25	UG/L	2.3	2 UJ	1.4 J	2 UJ	1.8 J	2 UJ	1.2 J	2 UJ	2 U
Barium	1000	UG/L	470	340 J-	106	95.1 J-	66.3	46.1 J-	74.2	53.7 J-	33.8
Beryllium	3	UG/L	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U
Cadmium	5	UG/L	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U
Calcium	--	UG/L	300000	310000 J-	59900	61900 J-	91700	89900 J-	60000	57500 J-	44000
Chromium, Total	50	UG/L	4 U	4 UJ	4 U	4 UJ	2.7 J	4 UJ	3.1 J	4 UJ	4 U
Cobalt	--	UG/L	1.3 J	1.1 J-	5.5	5.4 J-	2.8 J	1.6 J-	2.3 J	1.8 J-	2.6 J
Copper	200	UG/L	4 U	4 UJ	4 U	4 UJ	7.2	4 UJ	4 U	4 UJ	4 U
Iron	**300**	UG/L	**19900**	120 UJ	**20300**	**3500 J-**	**3880**	120 UJ	**20400**	**2220 J-**	**749**
Lead	**25**	UG/L	1.4	1.2 UJ	1.5	1.2 UJ	17.4	1.2 UJ	1.9	1.2 UJ	1.2 U
Magnesium	35000	UG/L	28500	27600 J-	9370	9510 J-	5550	5960 J-	12200	11500 J-	8600
Manganese	**300**	UG/L	**2950**	**2810 J-**	**1230**	**1260 J-**	**697**	**748 J-**	**1670**	**1550 J-**	**2400**
Mercury	0.7	UG/L	0.2 U	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ	0.2 U
Nickel	100	UG/L	1.6 J	4 UJ	1.5 J	4 UJ	1.9 J	4 UJ	4 U	4 UJ	3.1 J
Potassium	--	UG/L	38700	37600 J-	9760	9930 J-	6410	7030 J-	7330	6820 J-	5050
Selenium	10	UG/L	0.61 J	0.79 J-	0.61 J	2.5 UJ	2.5 U	2.5 UJ	2.5 U	2.5 UJ	1.1 J
Silver	50	UG/L	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U
Sodium	**20000**	UG/L	**324000**	**321000 J-**	**81600**	**84100 J-**	**20800 J**	**24500 J**	**66700**	**61500 J-**	**55800**
Thallium	0.5	UG/L	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U
Vanadium	--	UG/L	1.5 J	4 UJ	0.83 J	4 UJ	7.3	4 UJ	0.79 J	4 UJ	0.69 J
Zinc	2000	UG/L	29.8	13.8 J-	22.2	11.6 J-	14.7 J	16 UJ	7.1 J	16 UJ	15.7 J

Table 11. Summary of Metals in Groundwater, 458 East 99th Street, Brooklyn, New York

Sample Designation:			GW-6S	GW-6D	GW-6D	GW-6D	GW-6D	GW-7S	GW-7S	GW-7D	GW-7D
Sample Date:			10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:			N	N	N	FD	FD	N	N	N	N
Total or Dissolved:			Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved	Total	Dissolved
Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units									
Aluminum	--	UG/L	40 UJ	1040	40 UJ	963	40 UJ	70.2	40 UJ	219	40 UJ
Antimony	3	UG/L	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ
Arsenic	25	UG/L	2 UJ	2 U	0.9 J-	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ
Barium	1000	UG/L	34.2 J-	40.4	33.2 J-	38.9	31.1 J-	68.2	71.1 J-	31.1	31.9 J-
Beryllium	3	UG/L	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ
Cadmium	5	UG/L	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ
Calcium	--	UG/L	46900 J-	22900	22100 J-	23000	19400 J-	79900	82900 J-	19000	20900 J-
Chromium, Total	50	UG/L	4 UJ	4.7	4 UJ	4.6	4 UJ	4 U	4 UJ	4 U	4 UJ
Cobalt	--	UG/L	2.7 J-	2.2 J	1.4 J-	2.1 J	0.9 J-	0.75 J	0.82 J-	1.3 J	1.1 J-
Copper	200	UG/L	4 UJ	3.3 J	4 UJ	3.2 J	4 UJ	4 U	4 UJ	4 U	4 UJ
Iron	**300**	UG/L	72.3 J-	**2020**	120 UJ	**1840**	120 UJ	197	118 J-	**2120**	99.7 J-
Lead	**25**	UG/L	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 UJ	1.2 U	1.2 UJ
Magnesium	35000	UG/L	8540 J-	5240	4180 J-	5130	3450 J-	13500	13500 J-	3870	4190 J-
Manganese	**300**	UG/L	**2630 J-**	**559**	**608 J-**	**569**	**485 J-**	**2980**	**3000 J-**	**519**	**500 J-**
Mercury	0.7	UG/L	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ	0.2 U	0.2 UJ
Nickel	100	UG/L	2.7 J-	3.6 J	1.4 J-	3.8 J	1.1 J-	1.7 J	1.7 J-	2.8 J	2.5 J-
Potassium	--	UG/L	5120 J-	5360	4880 J-	5250	4600 J-	5670	5890 J-	4770	4690 J-
Selenium	10	UG/L	1 J-	2.5 U	2.5 UJ	2.5 U	2.5 UJ	4.3	4.6 J-	2.5 U	0.75 J-
Silver	50	UG/L	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ	2 U	2 UJ
Sodium	**20000**	UG/L	**57500 J-**	**28000**	**24900 J-**	**28000**	**22000 J-**	**92100**	**87000 J-**	**31400**	**29400 J-**
Thallium	0.5	UG/L	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ	0.8 U	0.8 UJ
Vanadium	--	UG/L	4 UJ	3.4 J	4 UJ	3.4 J	4 UJ	4 U	4 UJ	4 U	4 UJ
Zinc	2000	UG/L	22.1 J	6.9 J	15.3 J-	8.4 J	16 UJ	16 U	10.4 J-	14.4 J	16 UJ

Table 11. Summary of Metals in Groundwater, 458 East 99th Street, Brooklyn, New York

		Sample Designation:	GW-8S	GW-8S	GW-8D	GW-8D
		Sample Date:	10/23/2021	10/23/2021	10/23/2021	10/23/2021
		Normal Sample or Field Duplicate:	N	N	N	N
		Total or Dissolved:	Total	Dissolved	Total	Dissolved
Parameters	NYSDEC Ambient Water Quality Standards and Guidance Values	Units				
Aluminum	--	UG/L	1940	40 UJ	260	40 UJ
Antimony	3	UG/L	0.92 J	2 UJ	2 U	2 UJ
Arsenic	25	UG/L	5.1	2 UJ	1.4 J	2 UJ
Barium	1000	UG/L	501	323 J-	126	111 J-
Beryllium	3	UG/L	0.15 J	0.8 UJ	0.8 U	0.8 UJ
Cadmium	5	UG/L	2 U	2 UJ	2 U	2 UJ
Calcium	--	UG/L	134000	148000 J-	65600	63000 J-
Chromium, Total	50	UG/L	6.5	4 UJ	4 U	4 UJ
Cobalt	--	UG/L	2.3 J	1.4 J-	1 J	1.2 J-
Copper	200	UG/L	56.1	4 UJ	4 U	4 UJ
Iron	**300**	UG/L	**31300**	120 UJ	**9580**	**1600 J-**
Lead	**25**	UG/L	**148**	1.2 UJ	1.2 U	1.2 UJ
Magnesium	35000	UG/L	11100	12400 J-	7490	7690 J-
Manganese	**300**	UG/L	**1610**	**1770 J-**	**1260**	**1250 J-**
Mercury	0.7	UG/L	0.24	0.2 UJ	0.2 U	0.2 UJ
Nickel	100	UG/L	5	4 UJ	4 U	4 UJ
Potassium	--	UG/L	25100	28700 J-	10400	10200 J-
Selenium	10	UG/L	2.5 U	2.5 UJ	2.5 U	2.5 UJ
Silver	50	UG/L	2 U	2 UJ	2 U	2 UJ
Sodium	**20000**	UG/L	**151000**	**171000 J-**	**102000**	**99500 J-**
Thallium	0.5	UG/L	0.8 U	0.8 UJ	0.8 U	0.8 UJ
Vanadium	--	UG/L	6	4 UJ	4 U	4 UJ
Zinc	2000	UG/L	110	13.9 J-	16 U	16 UJ

Table 12. Summary of Per- and Polyfluoroalkyl Substances in Groundwater, 458 East 99th Street, Brooklyn, New York

		Sample Designation:	GW-4S	GW-4D	GW-5S	GW-5D	GW-6S	GW-6D
		Sample Date:	10/23/2021	10/23/2021	10/23/2021	10/23/2021	10/17/2021	10/17/2021
		Normal Sample or Field Duplicate:	N	N	N	N	N	N
Parameters	NYSDEC Ambient Water Quality Guidance Values	Units						
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	UG/L	0.00269 U	0.001 J	0.00267 U	0.00264 U	0.00275 U	0.00285 U
Perfluorobutanesulfonic acid (PFBS)	--	UG/L	0.0017 J	0.00676	0.00356	0.00206	0.00184 U	0.0019 U
Perfluorobutanoic Acid	--	UG/L	0.0073 J+	0.00531 J+	0.0112 J+	0.0083 J+	0.00459 U	0.00475 U
Perfluorodecane Sulfonic Acid	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
Perfluorodecanoic acid (PFDA)	--	UG/L	0.0018 U	0.00093 J	0.00046 J	0.00176 U	0.00059 J	0.00069 J
Perfluorododecanoic acid (PFDoA)	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
Perfluoroheptane Sulfonate (PFHPS)	--	UG/L	0.0018 U	0.00173 U	0.0006 J	0.00176 U	0.00184 U	0.0019 U
Perfluoroheptanoic acid (PFHpA)	--	UG/L	0.00411	0.00621	0.0109	0.00553	0.00384	0.00159 J
Perfluorohexanesulfonic acid (PFHxS)	--	UG/L	0.00098 J	0.00181	0.00357	0.00145 J	0.00111 J	0.00092 J
Perfluorohexanoic acid (PFHxA)	--	UG/L	0.00848	0.00622	0.0126	0.0118	0.00406 J+	0.0019 U
Perfluorononanoic acid (PFNA)	--	UG/L	0.0018 U	0.00212	0.00417	0.00116 J	0.00194	0.00064 J
Perfluorooctane Sulfonamide (FOSA)	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.00067 J
Perfluorooctanesulfonic acid (PFOS)	**0.0027**	UG/L	0.0018 U	**0.00878**	**0.013**	**0.00615**	**0.00431**	0.0027
Perfluorooctanoic acid (PFOA)	**0.0067**	UG/L	**0.014**	**0.0443**	**0.113**	**0.0471**	**0.0205**	**0.00695**
Perfluoropentanoic Acid (PFPeA)	--	UG/L	0.0138	0.00666	0.0117	0.0126	0.00245	0.0019 U
Perfluorotetradecanoic acid (PFTA)	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
Perfluorotridecanoic Acid (PFTriA)	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
Perfluoroundecanoic Acid (PFUnA)	--	UG/L	0.0018 U	0.00173 U	0.00178 U	0.00176 U	0.00184 U	0.0019 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	UG/L	0.00269 U	0.00259 U	0.00267 U	0.00264 U	0.00275 U	0.00285 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	UG/L	0.00449 U	0.0033 J	0.00693	0.0044 U	0.00459 U	0.00475 U

Table 12. Summary of Per- and Polyfluoroalkyl Substances in Groundwater, 458 East 99th Street, Brooklyn, New York

		Sample Designation:	GW-6D	GW-7S	GW-7D	GW-8S	GW-8D
		Sample Date:	10/17/2021	10/17/2021	10/17/2021	10/23/2021	10/23/2021
		Normal Sample or Field Duplicate:	FD	N	N	N	N
Parameters	NYSDEC Ambient Water Quality Guidance Values	Units					
2-(N-methyl perfluorooctanesulfonamido) acetic acid	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
N-ethyl perfluorooctanesulfonamidoacetic acid	--	UG/L	0.00271 U	0.00261 U	0.00285 U	0.00264 U	0.00066 J
Perfluorobutanesulfonic acid (PFBS)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.0014 J	0.00305
Perfluorobutanoic Acid	--	UG/L	0.00452 U	0.00435 U	0.00475 U	0.00756 J+	0.00633 J+
Perfluorodecane Sulfonic Acid	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluorodecanoic acid (PFDA)	--	UG/L	0.00069 J	0.00174 U	0.00054 J	0.00176 U	0.00083 J
Perfluorododecanoic acid (PFDoA)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluoroheptane Sulfonate (PFHPS)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluoroheptanoic acid (PFHpA)	--	UG/L	0.00182	0.00377	0.00161 J	0.0039	0.00612
Perfluorohexanesulfonic acid (PFHxS)	--	UG/L	0.00105 J	0.00058 J	0.00076 J	0.00114 J	0.00178
Perfluorohexanoic acid (PFHxA)	--	UG/L	0.00193 J+	0.00279 J+	0.00199 J+	0.00842	0.00907
Perfluorononanoic acid (PFNA)	--	UG/L	0.00081 EMPC	0.00122 EMPC	0.00069 EMPC	0.00094 J	0.0016 J
Perfluorooctane Sulfonamide (FOSA)	--	UG/L	0.00062 J	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluorooctanesulfonic acid (PFOS)	**0.0027**	UG/L	0.00255	**0.00419**	0.00239	0.00261	**0.00898 EMPC**
Perfluorooctanoic acid (PFOA)	**0.0067**	UG/L	0.00644	**0.0174**	0.00641	**0.0262**	**0.0478**
Perfluoropentanoic Acid (PFPeA)	--	UG/L	0.00181 U	0.00198 J+	0.0019 U	0.0108	0.0106
Perfluorotetradecanoic acid (PFTA)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluorotridecanoic Acid (PFTriA)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Perfluoroundecanoic Acid (PFUnA)	--	UG/L	0.00181 U	0.00174 U	0.0019 U	0.00176 U	0.00173 U
Sodium 1H,1H,2H,2H-Perfluorodecane Sulfonate (8:2)	--	UG/L	0.00271 U	0.00261 U	0.00285 U	0.00264 U	0.0026 U
Sodium 1H,1H,2H,2H-Perfluorooctane Sulfonate (6:2)	--	UG/L	0.00452 U	0.00435 U	0.00475 U	0.00468	0.00433 U

Table 13. Summary of Volatile Organic Compounds in Indoor Air, Outdoor Air and Soil Vapor, 458 East 99th Street, Brooklyn, New York

Sample Designation:		SSSV-1	IA-1	SSSV-2	IA-2	SSSV-3	SSSV-3	IA-3	SSSV-4
Sample Date:		10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	FD	N	N
Parameters	Units								
1,1,1-Trichloroethane (TCA)	UG/M3	**55**	1.1 U	**61**	1.1 U	7.6 U	**2 J**	1.1 U	8.7 UJ
1,1,2,2-Tetrachloroethane	UG/M3	5.5 U	1.4 U	1.4 U	1.4 U	9.6 U	11 U	1.4 U	11 UJ
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	6.1 U	**0.5 J**	1.5 U	**0.57 J**	11 U	12 U	**0.48 J**	12 UJ
1,1,2-Trichloroethane	UG/M3	4.4 U	1.1 U	1.1 U	1.1 U	7.6 U	8.7 U	1.1 U	8.7 UJ
1,1-Dichloroethane	UG/M3	3.2 U	0.81 U	0.81 U	0.81 U	5.7 U	6.5 U	0.81 U	6.5 UJ
1,1-Dichloroethene	UG/M3	0.8 U	0.2 U	0.2 U	0.2 U	1.4 U	1.6 U	0.2 U	1.6 UJ
1,2,4-Trichlorobenzene	UG/M3	15 U	3.7 U	3.7 U	3.7 U	26 U	30 U	3.7 U	30 UJ
1,2,4-Trimethylbenzene	UG/M3	3.9 U	**1.1**	**1**	**2.3**	6.9 U	7.9 U	**1.2**	7.9 UJ
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	6.1 U	1.5 U	1.5 U	1.5 U	11 U	12 U	1.5 U	12 UJ
1,2-Dichlorobenzene	UG/M3	4.8 U	1.2 U	1.2 U	1.2 U	8.4 U	9.6 U	1.2 U	9.6 UJ
1,2-Dichloroethane	UG/M3	3.2 U	0.81 U	0.81 U	0.81 U	5.7 U	6.5 U	0.81 U	6.5 UJ
1,2-Dichloropropane	UG/M3	3.7 U	0.92 U	0.92 U	0.92 U	6.5 U	7.4 U	0.92 U	7.4 UJ
1,2-Dichlorotetrafluoroethane	UG/M3	5.6 U	1.4 U	1.4 U	1.4 U	9.8 U	11 U	1.4 U	11 UJ
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	3.9 U	**0.33 J**	**0.35 J**	**0.78 J**	6.9 U	7.9 U	**0.36 J**	7.9 UJ
1,3-Butadiene	UG/M3	1.8 U	0.44 U	0.44 U	0.44 U	3.1 U	3.5 U	0.44 U	3.5 UJ
1,3-Dichlorobenzene	UG/M3	4.8 U	1.2 U	1.2 U	1.2 U	8.4 U	9.6 U	1.2 U	9.6 UJ
1,4-Dichlorobenzene	UG/M3	4.8 U	1.2 U	1.2 U	1.2 U	8.4 U	9.6 U	1.2 U	9.6 UJ
1,4-Dioxane (P-Dioxane)	UG/M3	72 U	18 U	18 U	18 U	130 U	140 U	18 U	140 UJ
2,2,4-Trimethylpentane	UG/M3	3.7 U	**0.45 J**	**1.2**	**0.42 J**	6.5 U	7.5 U	**0.47 J**	7.5 UJ
2-Chlorotoluene	UG/M3	4.1 U	1 U	1 U	1 U	7.2 U	8.3 U	1 U	8.3 UJ
2-Hexanone	UG/M3	8.2 U	2 U	2 U	2 U	14 U	16 U	2 U	16 UJ
4-Ethyltoluene	UG/M3	3.9 U	**0.28 J**	**0.28 J**	**0.68 J**	6.9 U	7.9 U	**0.29 J**	7.9 UJ
Acetone	UG/M3	**26 J**	**35**	**45**	**36**	83 U	95 U	**25**	95 UJ
Allyl Chloride (3-Chloropropene)	UG/M3	6.3 U	1.6 U	1.6 U	1.6 U	11 U	13 U	1.6 U	13 UJ
Benzene	UG/M3	2.6 U	**0.54 J**	**0.44 J**	**0.6 J**	4.5 U	5.1 U	**0.57 J**	5.1 UJ
Benzyl Chloride	UG/M3	4.1 U	1 U	1 U	1 U	7.2 U	8.3 U	1 U	8.3 UJ
Bromodichloromethane	UG/M3	5.4 U	1.3 U	1.3 U	1.3 U	9.4 U	11 U	1.3 U	11 UJ
Bromoform	UG/M3	8.3 U	2.1 U	2.1 U	2.1 U	14 U	17 U	2.1 U	17 UJ
Bromomethane	UG/M3	3.1 U	0.78 U	0.78 U	0.78 U	5.4 U	6.2 U	0.78 U	6.2 UJ
Butane	UG/M3	4.8 U	**1.8**	**0.79 J**	**2**	8.3 U	9.5 U	**2**	9.5 UJ
Carbon Disulfide	UG/M3	**5.5 J**	**0.67 J**	**2.2**	1.6 U	**8.6 J**	12 U	1.6 U	12 UJ
Carbon Tetrachloride	UG/M3	**0.83 J**	**0.37**	**13**	**0.43**	**29**	**30**	**0.44**	1.8 UJ
Chlorobenzene	UG/M3	3.7 U	0.92 U	0.92 U	0.92 U	6.4 U	7.4 U	0.92 U	7.4 UJ
Chlorodifluoromethane	UG/M3	**9.1**	**1.2 J**	**7.7**	**1.3 J**	**12**	**12 J**	**1.4 J**	**3.5 J**
Chloroethane	UG/M3	5.3 U	1.3 U	1.3 U	1.3 U	9.2 U	11 U	1.3 U	11 UJ
Chloroform	UG/M3	3.9 U	0.98 U	**16**	0.98 U	**6 J**	**6.7 J**	0.98 U	**41 J**

Table 13. Summary of Volatile Organic Compounds in Indoor Air, Outdoor Air and Soil Vapor, 458 East 99th Street, Brooklyn, New York

Sample Designation:		SSSV-1	IA-1	SSSV-2	IA-2	SSSV-3	SSSV-3	IA-3	SSSV-4
Sample Date:		10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	FD	N	N
Parameters	Units								
Chloromethane	UG/M3	4.1 U	**1.2**	**0.99 J**	**1.2**	7.2 U	8.3 U	**1.2**	8.3 UJ
Cis-1,2-Dichloroethene	UG/M3	0.8 U	0.2 U	0.2 U	0.2 U	1.4 U	1.6 U	0.2 U	**3.7 J**
Cis-1,3-Dichloropropene	UG/M3	3.6 U	0.91 U	0.91 U	0.91 U	6.4 U	7.3 U	0.91 U	7.3 UJ
Cyclohexane	UG/M3	**2.6 J**	**0.85**	**0.47 J**	**0.64 J**	4.8 U	5.5 U	**0.89**	**2.9 J**
Cymene	UG/M3	4.4 U	1.1 U	**0.24 J**	1.1 U	7.7 U	8.8 U	**0.21 J**	8.8 UJ
Dibromochloromethane	UG/M3	6.8 U	1.7 U	1.7 U	1.7 U	12 U	14 U	1.7 U	14 UJ
Dichlorodifluoromethane	UG/M3	**3.6 J**	**2.2 J**	**2.3 J**	**2.5**	17 U	20 U	**2.4 J**	20 UJ
Ethylbenzene	UG/M3	3.5 U	**1.3**	**1.6**	**2.4**	6.1 U	6.9 U	**1.2**	6.9 UJ
Hexachlorobutadiene	UG/M3	8.5 U	2.1 U	2.1 U	**1 J**	15 U	17 U	**0.52 J**	17 UJ
Isopropanol	UG/M3	**22 J**	**15**	**4.7 J**	**24**	86 U	98 U	**15**	**56 J**
Isopropylbenzene (Cumene)	UG/M3	3.9 U	0.98 U	0.98 U	**0.2 J**	6.9 U	7.9 U	0.98 U	7.9 UJ
m,p-Xylene	UG/M3	**4.7 J**	**5.7**	**6.7**	**11**	15 U	17 U	**5.4**	17 UJ
Methyl Ethyl Ketone (2-Butanone)	UG/M3	5.9 U	**3.2**	**2.3**	**3.2**	10 U	12 U	**2.3**	12 UJ
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	8.2 U	2 U	2 U	2 U	14 U	16 U	2 U	16 UJ
Methyl Methacrylate	UG/M3	8.2 U	2 U	**1.8 J**	2 U	14 U	16 U	2 U	16 UJ
Methylene Chloride	UG/M3	**12**	**3.9**	**0.61 J**	**7.3**	12 U	14 U	**8.8**	**16 J**
Naphthalene	UG/M3	10 U	2.6 U	2.6 U	2.6 U	18 U	21 U	2.6 U	21 UJ
N-Butylbenzene	UG/M3	4.4 U	1.1 U	1.1 U	1.1 U	7.7 U	8.8 U	1.1 U	8.8 UJ
N-Heptane	UG/M3	3.3 U	**0.59 J**	**1.2**	**0.61 J**	5.7 U	6.6 U	**0.45 J**	6.6 UJ
N-Hexane	UG/M3	**6.9 J**	**2.2**	**1.1 J**	**4.1**	12 U	14 U	**5.1**	**10 J**
N-Propylbenzene	UG/M3	3.9 U	0.98 U	0.98 U	**0.41 J**	6.9 U	7.9 U	0.98 U	7.9 UJ
O-Xylene (1,2-Dimethylbenzene)	UG/M3	3.5 U	**1.5**	**1.3**	**2.8**	6.1 U	6.9 U	**1.4**	6.9 UJ
Sec-Butylbenzene	UG/M3	4.4 U	1.1 U	1.1 U	1.1 U	7.7 U	8.8 U	1.1 U	8.8 UJ
Styrene	UG/M3	3.4 U	0.85 U	**0.34 J**	**0.24 J**	6 U	6.8 U	0.85 U	6.8 UJ
T-Butylbenzene	UG/M3	4.4 U	1.1 U	1.1 U	1.1 U	7.7 U	8.8 U	1.1 U	8.8 UJ
Tert-Butyl Alcohol	UG/M3	61 U	15 U	15 U	15 U	110 U	120 U	15 U	120 UJ
Tert-Butyl Methyl Ether	UG/M3	2.9 U	0.72 U	0.72 U	0.72 U	5 U	5.8 U	0.72 U	5.8 UJ
Tetrachloroethene (PCE)	UG/M3	**3800 D**	**3.9**	**300 D**	**2.1**	**6000 D**	**7300 D**	**2.1**	**16000 J**
Tetrahydrofuran	UG/M3	59 U	15 U	15 U	15 U	100 U	120 U	15 U	120 UJ
Toluene	UG/M3	**31**	**26**	**46**	**46**	**12**	**12**	**22**	**15 J**
Trans-1,2-Dichloroethene	UG/M3	3.2 U	0.79 U	0.79 U	0.79 U	5.6 U	6.3 U	0.79 U	6.3 UJ
Trans-1,3-Dichloropropene	UG/M3	3.6 U	0.91 U	0.91 U	0.91 U	6.4 U	7.3 U	0.91 U	7.3 UJ
Trichloroethene (TCE)	UG/M3	**25**	0.2 U	**100**	0.2 U	**92**	**100**	0.2 U	**440 J**
Trichlorofluoromethane	UG/M3	**1.7 J**	**1.3**	**1.4**	**1.3**	7.9 U	9 U	**1.3**	9 UJ
Vinyl Bromide	UG/M3	3.5 U	0.87 U	0.87 U	0.87 U	6.1 U	7 U	0.87 U	7 UJ
Vinyl Chloride	UG/M3	0.8 U	0.2 U	0.2 U	0.2 U	1.4 U	1.6 U	0.2 U	1.6 UJ

Table 13. Summary of Volatile Organic Compounds in Indoor Air, Outdoor Air and Soil Vapor, 458 East 99th Street, Brooklyn, New York

Sample Designation:		IA-4	SSSV-5	IA-5	OA-1
Sample Date:		10/17/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:		N	N	N	N
Parameters	Units				
1,1,1-Trichloroethane (TCA)	UG/M3	1.1 U	**43**	1.1 U	1.1 U
1,1,2,2-Tetrachloroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	**0.51 J**	**0.48 J**	**0.47 J**	**0.44 J**
1,1,2-Trichloroethane	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U
1,1-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U
1,1-Dichloroethene	UG/M3	0.2 U	0.2 U	0.2 U	0.2 U
1,2,4-Trichlorobenzene	UG/M3	3.7 U	3.7 U	3.7 U	3.7 U
1,2,4-Trimethylbenzene	UG/M3	**0.82 J**	**0.64 J**	**1.1**	**0.35 J**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.5 U	1.5 U	1.5 U	1.5 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.81 U	0.81 U	0.81 U	0.81 U
1,2-Dichloropropane	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	**0.3 J**	**0.22 J**	**0.39 J**	0.98 U
1,3-Butadiene	UG/M3	0.44 U	0.44 U	0.44 U	0.44 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	18 U	18 U	18 U	18 U
2,2,4-Trimethylpentane	UG/M3	**0.47 J**	**0.4 J**	**0.39 J**	**0.46 J**
2-Chlorotoluene	UG/M3	1 U	1 U	1 U	1 U
2-Hexanone	UG/M3	2 U	2 U	2 U	2 U
4-Ethyltoluene	UG/M3	0.98 U	0.98 U	**0.34 J**	0.98 U
Acetone	UG/M3	**18**	**25**	**31**	**7.2 J**
Allyl Chloride (3-Chloropropene)	UG/M3	1.6 U	1.6 U	1.6 U	1.6 U
Benzene	UG/M3	**0.48 J**	**0.44 J**	**0.52 J**	**0.46 J**
Benzyl Chloride	UG/M3	1 U	1 U	1 U	1 U
Bromodichloromethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U
Bromoform	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U
Bromomethane	UG/M3	0.78 U	0.78 U	0.78 U	0.78 U
Butane	UG/M3	**1.7**	**1.1 J**	**1.7**	**1.9**
Carbon Disulfide	UG/M3	**1.7**	**0.4 J**	1.6 U	1.6 U
Carbon Tetrachloride	UG/M3	**0.37**	**4.6**	**0.43**	**0.39**
Chlorobenzene	UG/M3	0.92 U	0.92 U	0.92 U	0.92 U
Chlorodifluoromethane	UG/M3	**1.2 J**	**5.8**	**1.2 J**	**1.1 J**
Chloroethane	UG/M3	1.3 U	1.3 U	1.3 U	1.3 U
Chloroform	UG/M3	0.98 U	**0.7 J**	0.98 U	0.98 U

Table 13. Summary of Volatile Organic Compounds in Indoor Air, Outdoor Air and Soil Vapor, 458 East 99th Street, Brooklyn, New York

Sample Designation:		IA-4	SSSV-5	IA-5	OA-1
Sample Date:		10/17/2021	10/17/2021	10/17/2021	10/17/2021
Normal Sample or Field Duplicate:		N	N	N	N
Parameters	Units				
Chloromethane	UG/M3	**1.2**	**0.39 J**	**1.1**	**1.6**
Cis-1,2-Dichloroethene	UG/M3	0.2 U	0.2 U	0.2 U	0.2 U
Cis-1,3-Dichloropropene	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U
Cyclohexane	UG/M3	**0.2 J**	**0.16 J**	**0.61 J**	**0.16 J**
Cymene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.2 J**	**3.1**	**2.2 J**	**2.3 J**
Ethylbenzene	UG/M3	**0.51 J**	**0.9**	**1.5**	0.87 U
Hexachlorobutadiene	UG/M3	2.1 U	2.1 U	2.1 U	2.1 U
Isopropanol	UG/M3	**8 J**	**6.4 J**	**19**	12 U
Isopropylbenzene (Cumene)	UG/M3	0.98 U	0.98 U	0.98 U	0.98 U
m,p-Xylene	UG/M3	**2.1 J**	**3.7**	**6.7**	**1.3 J**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	**0.85 J**	**2**	**2.1**	**1 J**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2 U	2 U	2 U	2 U
Methyl Methacrylate	UG/M3	2 U	2 U	2 U	2 U
Methylene Chloride	UG/M3	**2**	**0.85 J**	**3.4**	**1.6 J**
Naphthalene	UG/M3	2.6 U	2.6 U	2.6 U	2.6 U
N-Butylbenzene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U
N-Heptane	UG/M3	0.82 U	**0.41 J**	**0.58 J**	0.82 U
N-Hexane	UG/M3	**1 J**	**1.1 J**	**1.9**	**1 J**
N-Propylbenzene	UG/M3	0.98 U	0.98 U	**0.23 J**	0.98 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**0.61 J**	**0.96**	**1.7**	0.87 U
Sec-Butylbenzene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U
Styrene	UG/M3	0.85 U	**0.25 J**	0.85 U	0.85 U
T-Butylbenzene	UG/M3	1.1 U	1.1 U	1.1 U	1.1 U
Tert-Butyl Alcohol	UG/M3	15 U	15 U	15 U	15 U
Tert-Butyl Methyl Ether	UG/M3	0.72 U	0.72 U	0.72 U	0.72 U
Tetrachloroethene (PCE)	UG/M3	**3.5**	**770 D**	**2.3**	**0.22 J**
Tetrahydrofuran	UG/M3	15 U	15 U	15 U	15 U
Toluene	UG/M3	**7.1**	**12**	**36**	**3.7**
Trans-1,2-Dichloroethene	UG/M3	0.79 U	0.79 U	0.79 U	0.79 U
Trans-1,3-Dichloropropene	UG/M3	0.91 U	0.91 U	0.91 U	0.91 U
Trichloroethene (TCE)	UG/M3	0.2 U	**240 D**	0.2 U	0.2 U
Trichlorofluoromethane	UG/M3	**1.2**	**1.4**	**1.2**	**1.2**
Vinyl Bromide	UG/M3	0.87 U	0.87 U	0.87 U	0.87 U
Vinyl Chloride	UG/M3	0.2 U	0.2 U	0.2 U	0.2 U

Table 14. Summary of Volatile Organic Compounds inSoil Vapor Intrusion Samples Post-SVES/SSDS Installation, 458 East 99th Street, Brooklyn, New York

Sample Designation:		AA-01	IA-SV-1	IA-SV-1
Sample Date:		04/10/2025	04/10/2025	04/10/2025
Normal Sample or Field Duplicate:		N	N	FD
Parameters	Units			
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	**5.65**	**5.8**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	**1.58**	**1.7**
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	**1.3**	**1.34**
Acetone	UG/M3	**36.6**	**1700**	**1790**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U
Carbon Tetrachloride	UG/M3	**0.459**	**0.44**	**0.434**
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.22**	**1.24**	**1.27**
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.079 U
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	**10.4**	**11.9**

Table 14. Summary of Volatile Organic Compounds inSoil Vapor Intrusion Samples Post-SVES/SSDS Installation, 458 East 99th Street, Brooklyn, New York

Sample Designation:		AA-01	IA-SV-1	IA-SV-1
Sample Date:		04/10/2025	04/10/2025	04/10/2025
Normal Sample or Field Duplicate:		N	N	FD
Parameters	Units			
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.43**	**2.2**	**2.37**
Ethanol	UG/M3	9.42 U	**237**	**254**
Ethyl Acetate	UG/M3	1.8 U	**65.2**	**72.4**
Ethylbenzene	UG/M3	**1.03**	**53.9**	**57.3**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**21.9**	**1030**	**1040**
m,p-Xylene	UG/M3	**3.98**	**223**	**238**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	**6.16**	**6.87**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	**3.35**	**3.51**
Methylene Chloride	UG/M3	1.74 U	**7.12**	**7.57**
Naphthalene	UG/M3	0.996 U	0.996 U	0.996 U
N-Heptane	UG/M3	0.82 U	**3.99**	**4.39**
N-Hexane	UG/M3	0.705 U	**3.42 J**	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**1.26**	**70.4**	**75.1**
Styrene	UG/M3	0.852 U	**2.61**	**2.76**
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U
Tetrachloroethylene (PCE)	UG/M3	**0.258**	**0.142**	**0.149**
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**24.8**	**1420**	**1480**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U
Trichlorofluoromethane	UG/M3	**1.28**	**1.24**	**1.34**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U
Vinyl Chloride	UG/M3	**0.107**	0.051 U	0.051 U

U - Indicates that the compound was analyzed for but not detected
FD - Duplicate sample
ug/m3 - Micrograms per cubic meter
Bold data indicates that parameter was detected

Table 18. DER/DAR Air Emissions Analysis Worksheet
458 East Owners LLC, 458 East 99th Street, Brooklyn, NY

Calculations based on effluent sample results from 7/22/2024.
The highest concentration from each discharge and the combined flow rate of fans is used for calculation purposes.

Chemical Name	CAS Number	µg/m3	Molar Mass (g/mol)	PPMv	SGC (µg/m3)	AGC (µg/m3)
1,2,4-Trimethylbenzene (Pseudocumene)	00095-63-6	6.4	120.190	0.0013	N/A	60.00
1,3,5-Trimethylbenzene (Mesitylene)	00108-67-8	2.8	120.190	0.0006	N/A	60.00
2,2,4-Trimethylpentane (Isooctane)	00540-84-1	1.9	114.232	0.0004	N/A	3300.00
Acetone	00067-64-1	900	58.080	0.3727	180000.00	30000.00
Carbon Tetrachloride	00056-23-5	11	153.810	0.0017	1900.00	0.17
Chloroform	00067-66-3	4.2	119.370	0.0008	150.00	14.70
Chloromethane	00074-87-3	3.6	50.490	0.0017	22000.00	90.00
Cis-1,2-Dichloroethylene (DCE)	00156-59-2	49	96.950	0.0122	N/A	63.00
Cyclohexane	00110-82-7	4.6	84.162	0.0013	N/A	6000.00
Ethylbenzene	00100-41-4	16	106.168	0.0036	N/A	1000.00
Isopropanol (Isopropyl Alcohol)	00067-63-0	390	60.096	0.1561	98000.00	7000.00
m,p-Xylene (M-, O- & P- Mixture)	01330-20-7	60	106.160	0.0136	22000.00	100.00
Methyl Ethyl Ketone (2-Butanone)	00078-93-3	17	72.107	0.0057	13000.00	5000.00
Methylene Chloride (Dichloromethane)	00075-09-2	29	84.930	0.0082	14000.00	46.00
n-Butane	00106-97-8	6.2	58.124	0.0026	N/A	N/A
n-Heptane	00142-82-5	3.5	100.205	0.0008	210000.00	3900.00
o-Xylene (1,2-Dimethylbenzene)	00095-47-6	19	106.168	0.0043	22000.00	100.00
Tetrachloroethylene (PCE)	00127-18-4	4100	165.820	0.5947	300.00	3.80
Toluene	00108-88-3	860	92.141	0.2245	37000.00	5000.00
Trans-1,2-Dichloroethene (Dichloroethylene)	00156-60-5	3.1	96.950	0.0008	N/A	63.0
Trichloroethylene (TCE)	00079-01-6	230	131.380	0.0421	20.00	0.21

Calculate Emission Rate in Pounds/Hour (lb/hr):

Flow Rate = 308 cfm (combined max flow of 3 - GX5A and 1 - HS2750 at design flow/vacuum)
Emission Rate (lb/hr) = Flow Rate (cfm) * Concentration (PPMv) * Molecular Weight (g/mol) * 1.581E-07
Note that 1.581E-07 = $1/10^6$ ppm-v * 60 minutes/hour * 1 lb-mole/379.5 ft^3

Emission Rates for:	Q	Qa	Part 212-2.2 Table 2 HTAC Mass Emission Limit	
1,2,4-Trimethylbenzene (Pseudocumene)	0.0000075 lb/hr or	0.066 lb/yr	N/A lb/yr	OK
1,3,5-Trimethylbenzene (Mesitylene)	0.0000033 lb/hr or	0.029 lb/yr	N/A lb/yr	OK
2,2,4-Trimethylpentane (Isooctane)	0.0000022 lb/hr or	0.019 lb/yr	N/A lb/yr	OK
Acetone	0.0010540 lb/hr or	9.233 lb/yr	N/A lb/yr	OK
Carbon Tetrachloride	0.0000129 lb/hr or	0.113 lb/yr	100 lb/yr	OK
Chloroform	0.0000049 lb/hr or	0.043 lb/yr	N/A lb/yr	OK
Chloromethane	0.0000042 lb/hr or	0.037 lb/yr	N/A lb/yr	OK
Cis-1,2-Dichloroethylene (DCE)	0.0000574 lb/hr or	0.503 lb/yr	N/A lb/yr	OK
Cyclohexane	0.0000054 lb/hr or	0.047 lb/yr	N/A lb/yr	OK
Ethylbenzene	0.0000187 lb/hr or	0.164 lb/yr	N/A lb/yr	OK
Isopropanol (Isopropyl Alcohol)	0.0004567 lb/hr or	4.001 lb/yr	N/A lb/yr	OK
m,p-Xylene (M-, O- & P- Mixture)	0.0000703 lb/hr or	0.616 lb/yr	N/A lb/yr	OK
Methyl Ethyl Ketone (2-Butanone)	0.0000199 lb/hr or	0.174 lb/yr	N/A lb/yr	OK
Methylene Chloride (Dichloromethane)	0.0000340 lb/hr or	0.298 lb/yr	N/A lb/yr	OK
n-Butane	0.0000073 lb/hr or	0.064 lb/yr	N/A lb/yr	OK
n-Heptane	0.0000041 lb/hr or	0.036 lb/yr	N/A lb/yr	OK
o-Xylene (1,2-Dimethylbenzene)	0.0000223 lb/hr or	0.195 lb/yr	N/A lb/yr	OK
Tetrachloroethylene (PCE)	0.0048016 lb/hr or	42.062 lb/yr	1000 lb/yr	OK
Toluene	0.0010072 lb/hr or	8.823 lb/yr	N/A lb/yr	OK
Trans-1,2-Dichloroethene (Dichloroethylene)	0.0000036 lb/hr or	0.032 lb/yr	N/A lb/yr	OK
Trichloroethylene (TCE)	0.0002694 lb/hr or	2.360 lb/yr	500 lb/yr	OK

Since the remedial system does not have the potential to emit greater than 0.1 lb/hr of a HTAC, nor 0.5 lb/hr of a non-HTAC VOC, and the annual total emissions do not exceed the HTAC Mass Emission Limits, no treatment is necessary.

FIGURES

1. Site Location Map
2. Site Layout and Institutional Control Boundary Map
3. Groundwater Flow Map
4. Summary of RI Exceedances in Soil
5. Summary of RI Exceedances in Groundwater
6. RI Soil Vapor Intrusion Assessment Detections
7. Excavation and Backfill Area Map
8. Engineering Controls
9. VOCs in Soil Vapor Intrusion Samples Post-SVES/SSDS Installation
10. SSDS/SVES As-Built



QUADRANGLE LOCATION



Title:

SITE LOCATION MAP

458 EAST 99TH STREET
BROOKLYN, NY

Prepared for:

458 EAST 99TH STREET LLC

ROUX

Compiled by: M.H.	Date: 7/24/24	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	1
Project Mgr: L.C.	Project: 4078.0001Y000	
File: 3782.0001Y107.1.mxd		



N

LEGEND

SITE BOUNDARY

NOTES

1. AERIAL SOURCE: NYS OFFICE OF INFORMATION TECHNOLOGY SERVICES GIS PROGRAM OFFICE (GPO)

30 0 30'

Title:

SITE LAYOUT MAP AND INSTITUTIONAL CONTROL BOUNDARIES

458 EAST 99TH STREET BROOKLYN, NY

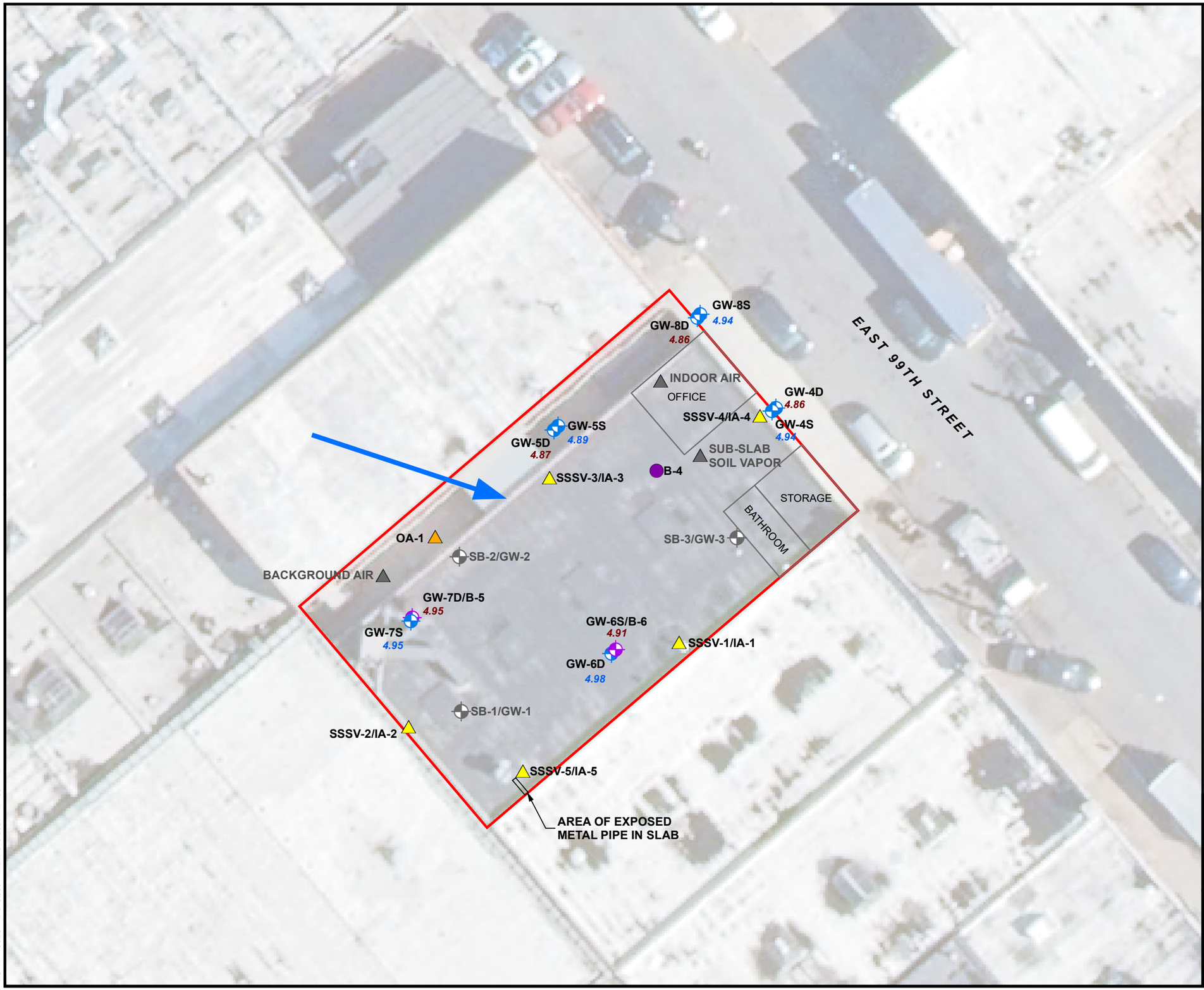
Prepared for:

458 EAST 99TH STREET LLC

ROUX

Compiled by: C.C.	Date: 07/24/24	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	2
Project Mgr: D.K.	Project: 4078.0001Y000	
File: 4078.0001Y101.02.mxd		

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N

LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF GROUNDWATER MONITORING WELL
- LOCATION OF SOIL BORING AND PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF OUTDOOR AIR SAMPLE
- LOCATION OF SUB-SLAB/INDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF PREVIOUS SOIL BORING AND GROUNDWATER MONITORING WELL
- APPROXIMATE LOCATION OF PREVIOUS SUB-SLAB/INDOOR/OUTDOOR AIR SAMPLE
- BCP SITE BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- 4.94\4.94 GROUNDWATER ELEVATION IN FEET RELATIVE TO NAVD88

NOTES

1. GROUNDWATER ELEVATIONS BASED ON GAUGING DATA COLLECTED ON NOVEMBER 18, 2021.
2. OBSERVED GROUNDWATER ELEVATIONS AT SHALLOW WELLS ARE LISTED IN BLUE AND DEEP WELLS ARE LISTED IN RED
3. NAVD88 - NORTH AMERICAN VERTICAL DATUM OF 1988

20 0 20'

Title:

GROUNDWATER FLOW MAP

458 EAST 99TH STREET
BROOKLYN, NY

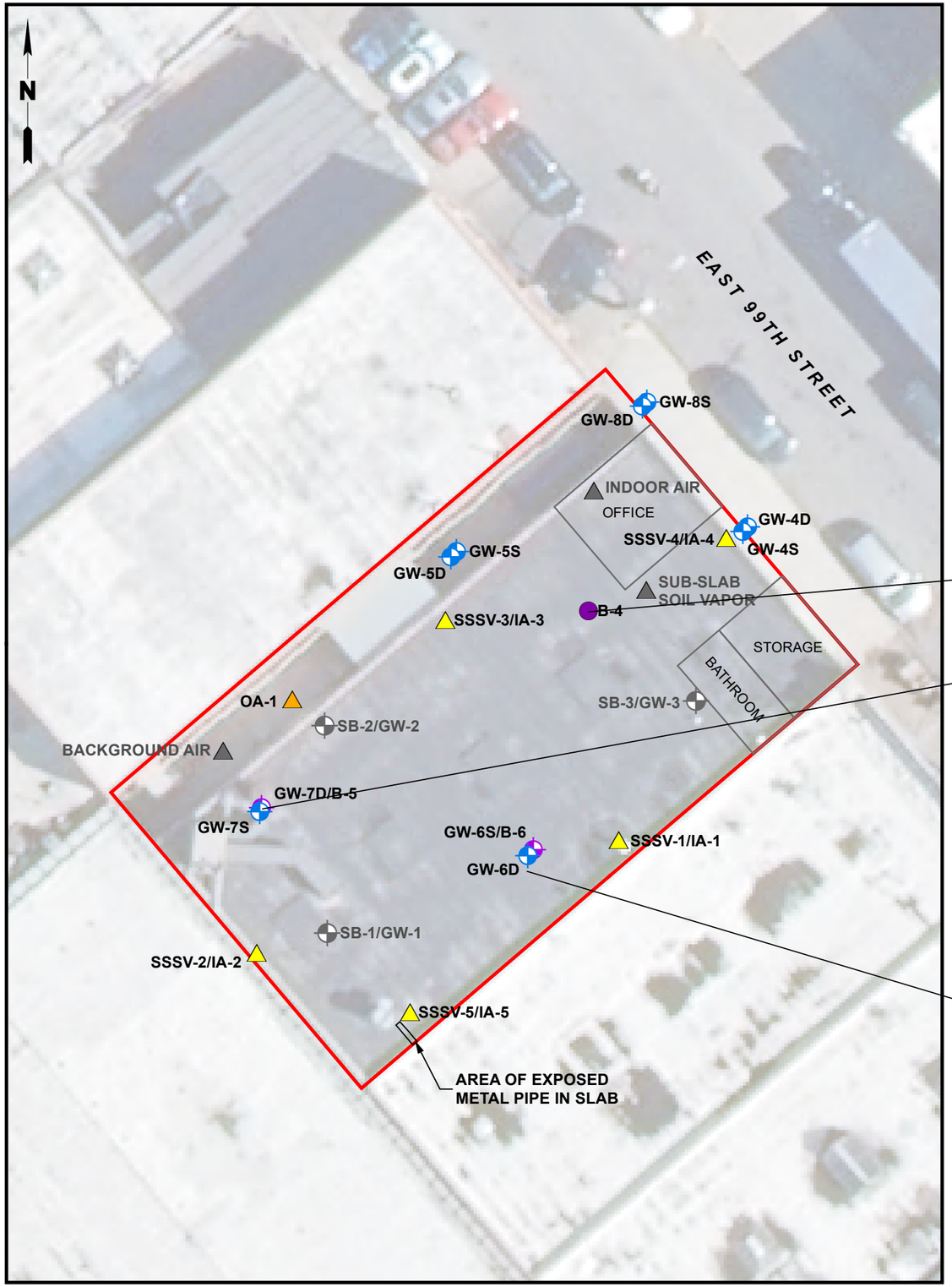
Prepared for:

458 EAST OWNERS, LLC

ROUX

Compiled by: L.C.	Date: 01/30/25	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	3
Project Mgr: L.C.	Project: 4078.0001Y000	
File: 4078.0001Y124.03.mxd		

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LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF SOIL BORING AND PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF OUTDOOR AIR SAMPLE
- LOCATION OF SUB-SLAB/INDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF PREVIOUS SOIL BORING AND GROUNDWATER MONITORING WELL
- APPROXIMATE LOCATION OF PREVIOUS SUB-SLAB/INDOOR/OUTDOOR AIR SAMPLE
- SITE BOUNDARY

B-4	10/09/2021	10/09/2021	10/09/2021
Depth (ft bls)	0.5 - 2.5	10 - 12	23 - 25
VOCs			
Tetrachloroethene (PCE)	**18**	ND	ND
Metals			
Arsenic	NE	**15.1**	NE
Lead	**88.8**	NE	NE
Pesticides			
4,4'-DDE	**0.0057 J**	ND	ND

B-5	10/10/2021	10/10/2021	10/10/2021	10/10/2021
Depth (ft bls)	0.5 - 2.5	10 - 12	23 - 25	23 - 25 DUP
Pesticides				
4,4'-DDT	ND	ND	ND	**0.0048 J**

B-6	10/09/2021	10/09/2021	10/09/2021
Depth (ft bls)	0.5 - 2.5	9 - 11	23 - 25
Metals			
Arsenic	**13.5**	NE	NE
Pesticides			
4,4'-DDE	**1.9 T**	**0.0095**	ND
4,4'-DDT	**1.4**	**0.03**	ND

Parameter	NYSDEC Part 375 Unrestricted Use SCO	NYSDEC Part 375 Commercial SCO	NYSDEC Part 375 Protection of Groundwater SCO
VOCs			
Tetrachloroethene (PCE)	**1.3**	150	1.3
Metals			
Arsenic	**13**	16	16
Lead	**63**	1000	450
Pesticides			
4,4'-DDD	**0.0033**	92	14
4,4'-DDE	**0.0033**	62	17
4,4'-DDT	**0.0033**	47	136

NOTES

1. ALL CONCENTRATIONS ARE SHOWN IN MILLIGRAMS PER KILOGRAM

DUP - DUPLICATE SAMPLE
FT BLS - FEET BELOW LAND SURFACE
J - ESTIMATED VALUE
ND - NO DETECTION
NE - NO EXCEEDANCE
NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
P - THE RPD BETWEEN THE RESULTS FOR THE TWO COLUMNS EXCEEDS THE METHOD-SPECIFIED CRITERIA
RPD - RELATIVE PERCENT DIFFERENCE
SCO - SOIL CLEANUP OJBECTIVE
T - INDICATES THAT A QUALITY CONTROL PARAMETER HAS EXCEEDED LABORATORY LIMITS
VOCS - VOLATILE ORGANIC COMPOUNDS

20 0 20'

Title:

SUMMARY OF RI EXCEEDANCES IN SOIL

458 EAST 99TH STREET
BROOKLYN, NY

Prepared for:

458 EAST 99TH STREET LLC

ROUX

Compiled by: M.H.	Date: 7/24/24	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	4
Project Mgr: L.C.	Project: 4078.0001Y000	
File: 3782.0001Y101.3.mxd		

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GW-8D	10/23/2021
VOCs	
1,1-Dichloroethane	**5.2**
Trichloroethene (TCE)	**12**
Metals, Total	
Iron	**9580**
Manganese	**1260**
Sodium	**102000**
Metals, Dissolved	
Iron	**1600 J-**
Manganese	**1250 J-**
Sodium	**99500 J-**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.00898 EMPC**
Perfluorooctanoic acid (PFOA)	**0.0478**

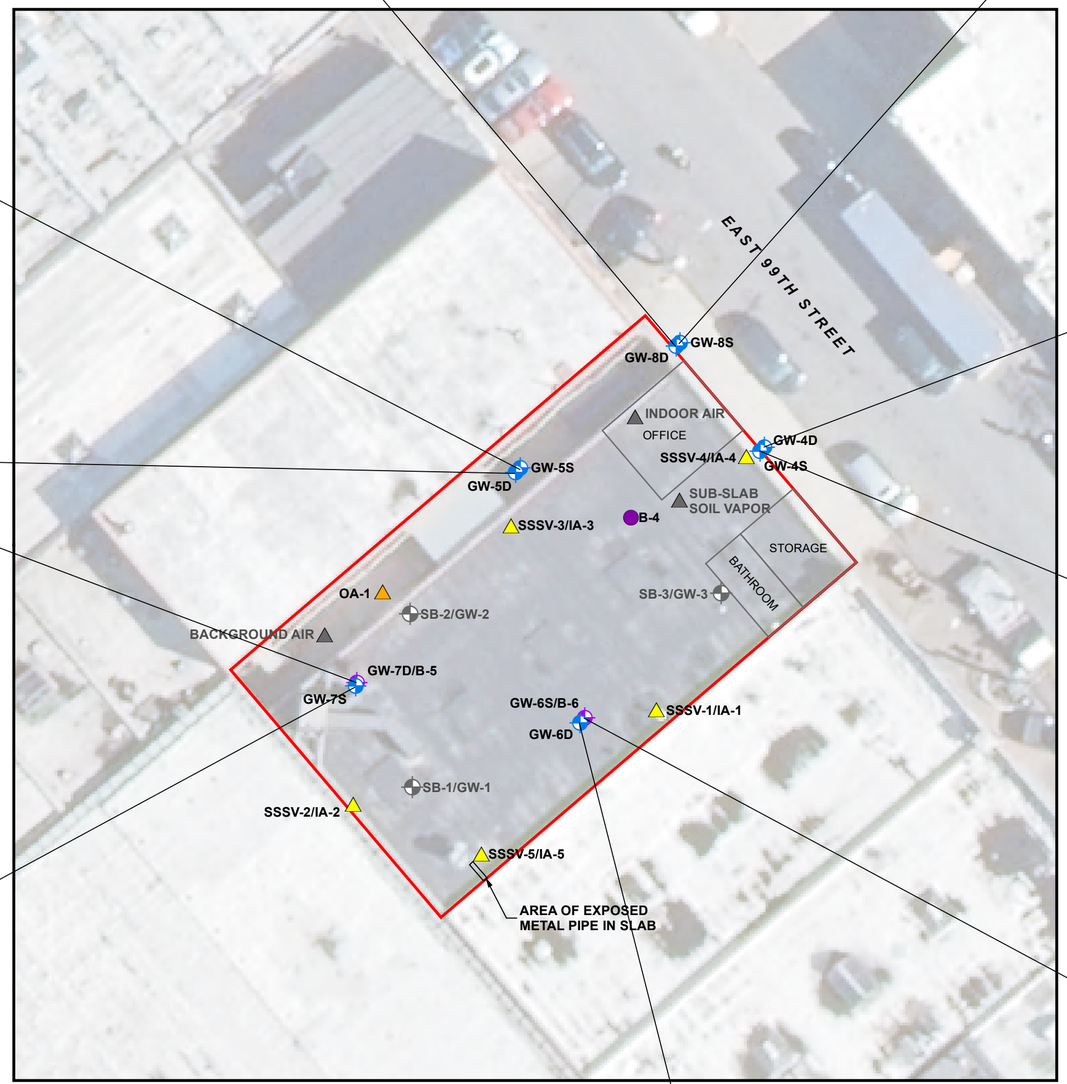
GW-8S	10/23/2021
VOCs	
Tetrachloroethene (PCE)	**5.5**
Metals, Total	
Iron	**31300**
Lead	**148**
Manganese	**1610**
Sodium	**151000**
Metals, Dissolved	
Manganese	**1770 J-**
Sodium	**171000 J-**
PFAS	
Perfluorooctanoic acid (PFOA)	**0.0262**

GW-5S	10/23/2021
VOCs	
Tetrachloroethene (PCE)	**8.5**
Metals, Total	
Iron	**3880**
Manganese	**697**
Sodium	**20800 J**
Metals, Dissolved	
Manganese	**748 J**
Sodium	**24500 J**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.013**
Perfluorooctanoic acid (PFOA)	**0.113**

GW-5D	10/23/2021
Metals, Total	
Iron	**20400**
Manganese	**1670**
Sodium	**66700**
Metals, Dissolved	
Iron	**2220 J-**
Manganese	**1550 J-**
Sodium	**61500 J-**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.00615**
Perfluorooctanoic acid (PFOA)	**0.0471**

GW-7D	10/17/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**62**
1,1-Dichloroethane	**370**
1,1-Dichloroethene	**6.8**
1,2-Dichloroethane	**1.6**
Chloroethane	**310 D**
Cis-1,2-Dichloroethene	**340**
Trichloroethene (TCE)	**34**
Vinyl Chloride	**180 D**
Metals, Total	
Iron	**2120**
Manganese	**519**
Sodium	**31400**
Metals, Dissolved	
Manganese	**500 J-**
Sodium	**29400 J-**

GW-7S	10/17/2021
VOCs	
1,1-Dichloroethane	**6.1**
Metals, Total	
Manganese	**2980**
Sodium	**92100**
Metals, Dissolved	
Manganese	**3000**
Sodium	**87000**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.00419 J-**
Perfluorooctanoic acid (PFOA)	**0.0174 J-**



GW-4D	10/23/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**5.3**
Tetrachloroethene (PCE)	**10**
Trichloroethene (TCE)	**59**
Metals, Total	
Iron	**20300**
Manganese	**1230**
Sodium	**81600**
Metals, Dissolved	
Iron	**3500 J-**
Manganese	**1260 J-**
Sodium	**84100 J-**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.00878**
Perfluorooctanoic acid (PFOA)	**0.0443**

GW-4S	10/23/2021
VOCs	
Tetrachloroethene (PCE)	**11**
Metals, Total	
Iron	**19900**
Manganese	**2950**
Sodium	**324000**
Metals, Dissolved	
Manganese	**2810 J-**
Sodium	**321000 J-**
PFAS	
Perfluorooctanoic acid (PFOA)	**0.014**

GW-6S	10/17/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**12**
1,1-Dichloroethane	**59**
Chloroethane	**43**
Cis-1,2-Dichloroethene	**32**
Tetrachloroethene (PCE)	**6.8**
Trichloroethene (TCE)	**13**
Vinyl Chloride	**23**
Metals, Total	
Iron	**749**
Manganese	**2400**
Sodium	**55800**
Metals, Dissolved	
Manganese	**2630 J-**
Sodium	**57500 J-**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.00431**
Perfluorooctanoic acid (PFOA)	**0.0205**

GW-6D	10/17/2021	10/17/2021 DUP
VOCs		
1,1,1-Trichloroethane (TCA)	**7.7**	**7.8**
1,1-Dichloroethane	**26**	**27**
Chloroethane	**19**	**19**
Cis-1,2-Dichloroethyene	**16**	**17**
Trichloroethene (TCE)	**12**	**12**
Vinyl Chloride	**7.6**	**7.7**
Metals, Total		
Iron	**2020**	**1840**
Manganese	**559**	**569**
Sodium	**28000**	**28000**
Metals, Dissolved		
Manganese	**608 J-**	**485 J-**
Sodium	**24900 J-**	**22000 J-**
PFAS		
Perfluorooctanoic acid (PFOA)	**0.00695**	NE

LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF SOIL BORING AND PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF OUTDOOR AIR SAMPLE
- LOCATION OF SUB-SLAB/INDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF PREVIOUS SOIL BORING AND GROUNDWATER MONITORING WELL
- APPROXIMATE LOCATION OF PREVIOUS SUB-SLAB/INDOOR/OUTDOOR AIR SAMPLE
- SITE BOUNDARY

Parameter	NYSDEC AWQSGV
VOCs	
1,1,1-Trichloroethane (TCA)	**5**
1,1-Dichloroethane	**5**
1,1-Dichloroethene	**5**
1,2-Dichloroethane	**0.6**
Chloroethane	**5**
Cis-1,2-Dichloroethene	**5**
Tetrachloroethene (PCE)	**5**
Trichloroethene (TCE)	**5**
Vinyl Chloride	**2**
Metals, Total	
Iron	**300**
Lead	**25**
Manganese	**300**
Sodium	**20000**
Metals, Dissolved	
Iron	**300**
Manganese	**300**
Sodium	**20000**
PFAS	
Perfluorooctanesulfonic acid (PFOS)	**0.0027**
Perfluorooctanoic acid (PFOA)	**0.0067**

NOTES

1. ALL CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER LITER

AWQSGVS - AMBIENT WATER-QUALITY STANDARDS AND GUIDANCE VALUES
D - DILUTION
DUP - DUPLICATE SAMPLE
NE - NO EXCEEDANCE
NYSDEC - NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
PFAS - PER- AND POLYFLUOROALKYL SUBSTANCES
VOCS - VOLATILE ORGANIC COMPOUNDS

20 0 20'

Title:

SUMMARY OF RI EXCEEDANCES IN GROUNDWATER

458 EAST 99TH STREET
BROOKLYN, NY

Prepared for:

458 EAST 99TH STREET LLC

ROUX

Compiled by: M.H.	Date: 7/24/24
Prepared by: M.S.R.	Scale: AS SHOWN
Project Mgr: L.C.	Project: 4078.0001Y000
File: 3782.0001Y107.4.mxd	

FIGURE 5

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SSSV-4	10/17/2021
VOCs	
Chlorodifluoromethane	**3.5 J**
Chloroform	**41 J**
Cis-1,2-Dichloroethylene	**3.7 J**
Cyclohexane	**2.9 J**
Isopropanol	**56 J**
Methylene Chloride	**16 J**
N-Hexane	**10 J**
Tetrachloroethene (PCE)	**16000 J**
Toluene	**15 J**
Trichloroethene (TCE)	**440 J**

OA-1	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.44 J**
1,2,4-Trimethylbenzene	**0.35 J**
2,2,4-Trimethylpentane	**0.46 J**
Acetone	**7.2 J**
Benzene	**0.46 J**
Butane	**1.9**
Carbon Tetrachloride	**0.39**
Chlorodifluoromethane	**1.1 J**
Chloromethane	**1.6**
Cyclohexane	**0.16 J**
Dichlorodifluoromethane	**2.3 J**
m,p-Xylene	**1.3 J**
Methyl Ethyl Ketone (2-Butanone)	**1 J**
Methylene Chloride	**1.6 J**
N-Hexane	**1 J**
Tetrachloroethene (PCE)	**0.22 J**
Toluene	**3.7**
Trichlorofluoromethane	**1.2**

IA-2	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.57 J**
1,2,4-Trimethylbenzene	**2.3**
1,3,5-Trimethylbenzene (Mesitylene)	**0.78 J**
2,2,4-Trimethylpentane	**0.42 J**
4-Ethyltoluene	**0.68 J**
Acetone	**36**
Benzene	**0.6 J**
Butane	**2**
Carbon Tetrachloride	**0.43**
Chlorodifluoromethane	**1.3 J**
Chloromethane	**1.2**
Cyclohexane	**0.64 J**
Dichlorodifluoromethane	**2.5**
Ethylbenzene	**2.4**
Hexachlorobutadiene	**1 J**
Isopropanol	**24**
Isopropylbenzene (Cumene)	**0.2 J**
m,p-Xylene	**11**
Methyl Ethyl Ketone (2-Butanone)	**3.2**
Methylene Chloride	**7.3**
N-Heptane	**0.61 J**
N-Hexane	**4.1**
N-Propylbenzene	**0.41 J**
O-Xylene (1,2-Dimethylbenzene)	**2.8**
Styrene	**0.24 J**
Tetrachloroethene (PCE)	**2.1**
Toluene	**46**
Trichlorofluoromethane	**1.3**

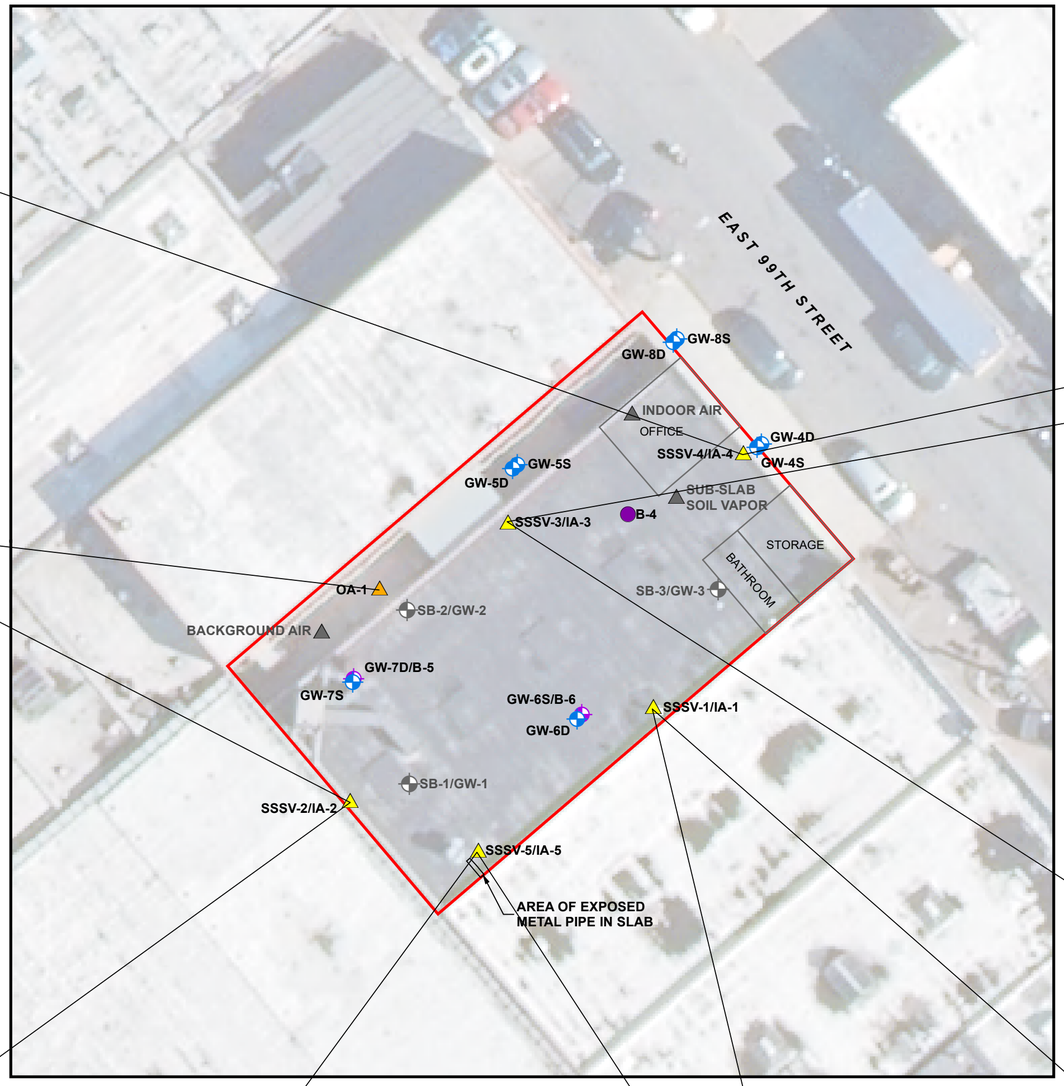
SSSV-2	10/17/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**61**
1,2,4-Trimethylbenzene	**1**
1,3,5-Trimethylbenzene (Mesitylene)	**0.35 J**
2,2,4-Trimethylpentane	**1.2**
4-Ethyltoluene	**0.28 J**
Acetone	**45**
Benzene	**0.44 J**
Butane	**0.79 J**
Carbon Disulfide	**2.2**
Carbon Tetrachloride	**13**
Chlorodifluoromethane	**7.7**
Chloroform	**16**
Chloromethane	**0.99 J**
Cyclohexane	**0.47 J**
Cymene	**0.24 J**
Dichlorodifluoromethane	**2.3 J**
Ethylbenzene	**1.6**
Isopropanol	**4.7 J**
m,p-Xylene	**6.7**
Methyl Ethyl Ketone (2-Butanone)	**2.3**
Methyl Methacrylate	**1.8 J**
Methylene Chloride	**0.61 J**
N-Heptane	**1.2**
N-Hexane	**1.1 J**
O-Xylene (1,2-Dimethylbenzene)	**1.3**
Styrene	**0.34 J**
Tetrachloroethene (PCE)	**300 D**
Toluene	**46**
Trichloroethene (TCE)	**100**
Trichlorofluoromethane	**1.4**

SSSV-5	10/17/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**43**
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.48 J**
1,2,4-Trimethylbenzene	**0.64 J**
1,3,5-Trimethylbenzene (Mesitylene)	**0.22 J**
2,2,4-Trimethylpentane	**0.4 J**
Acetone	**25**
Benzene	**0.44 J**
Butane	**1.1 J**
Carbon Disulfide	**0.4 J**
Carbon Tetrachloride	**4.6**
Chlorodifluoromethane	**5.8**
Chloroform	**0.7 J**
Chloromethane	**0.39 J**
Cyclohexane	**0.16 J**
Dichlorodifluoromethane	**3.1**
Ethylbenzene	**0.9**
Isopropanol	**6.4 J**
m,p-Xylene	**3.7**
Methyl Ethyl Ketone (2-Butanone)	**2**
Methylene Chloride	**0.85 J**
N-Heptane	**0.41 J**
N-Hexane	**1.1 J**
O-Xylene (1,2-Dimethylbenzene)	**0.96**
Styrene	**0.25 J**
Tetrachloroethene (PCE)	**770 D**
Toluene	**12**
Trichloroethene (TCE)	**240 D**
Trichlorofluoromethane	**1.4**

IA-5	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.47 J**
1,2,4-Trimethylbenzene	**1.1**
1,3,5-Trimethylbenzene (Mesitylene)	**0.39 J**
2,2,4-Trimethylpentane	**0.39 J**
4-Ethyltoluene	**0.34 J**
Acetone	**31**
Benzene	**0.52 J**
Butane	**1.7**
Carbon Tetrachloride	**0.43**
Chlorodifluoromethane	**1.2 J**
Chloromethane	**1.1**
Cyclohexane	**0.61 J**
Dichlorodifluoromethane	**2.2 J**
Ethylbenzene	**1.5**
Isopropanol	**19**
m,p-Xylene	**6.7**
Methyl Ethyl Ketone (2-Butanone)	**2.1**
Methylene Chloride	**3.4**
N-Heptane	**0.58 J**
N-Hexane	**1.9**
N-Propylbenzene	**0.23 J**
O-Xylene (1,2-Dimethylbenzene)	**1.7**
Tetrachloroethene (PCE)	**2.3**
Toluene	**36**
Trichlorofluoromethane	**1.2**

IA-1	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.5 J**
1,2,4-Trimethylbenzene	**1.1**
1,3,5-Trimethylbenzene (Mesitylene)	**0.33 J**
2,2,4-Trimethylpentane	**0.45 J**
4-Ethyltoluene	**0.28 J**
Acetone	**35**
Benzene	**0.54 J**
Butane	**1.8**
Carbon Disulfide	**0.67 J**
Carbon Tetrachloride	**0.37**
Chlorodifluoromethane	**1.2 J**
Chloromethane	**1.2**
Cyclohexane	**0.85**
Dichlorodifluoromethane	**2.2 J**
Ethylbenzene	**1.3**
Isopropanol	**15**
m,p-Xylene	**5.7**
Methyl Ethyl Ketone (2-Butanone)	**3.2**
Methylene Chloride	**3.9**
N-Heptane	**0.59 J**
N-Hexane	**2.2**
O-Xylene (1,2-Dimethylbenzene)	**1.5**
Tetrachloroethene (PCE)	**3.9**
Toluene	**26**
Trichlorofluoromethane	**1.3**

SSSV-1	10/17/2021
VOCs	
1,1,1-Trichloroethane (TCA)	**55**
Acetone	**26 J**
Carbon Disulfide	**5.5 J**
Carbon Tetrachloride	**0.83 J**
Chlorodifluoromethane	**9.1**
Cyclohexane	**2.6 J**
Dichlorodifluoromethane	**3.6 J**
Isopropanol	**22 J**
m,p-Xylene	**4.7 J**
Methylene Chloride	**12**
N-Hexane	**6.9 J**
Tetrachloroethene (PCE)	**3800 D**
Toluene	**31**
Trichloroethene (TCE)	**25**
Trichlorofluoromethane	**1.7 J**



SSSV-3	10/17/2021	10/17/2021 DUP
VOCs		
1,1,1-Trichloroethane (TCA)	**NE**	**2 J**
Carbon Disulfide	**8.6 J**	**NE**
Carbon Tetrachloride	**29**	**30**
Chlorodifluoromethane	**12**	**12 J**
Chloroform	**6 J**	**6.7 J**
Tetrachloroethene (PCE)	**6000 D**	**7300 D**
Toluene	**12**	**12**
Trichloroethene (TCE)	**92**	**100**

IA-4	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.51 J**
1,2,4-Trimethylbenzene	**0.82 J**
1,3,5-Trimethylbenzene (Mesitylene)	**0.3 J**
2,2,4-Trimethylpentane	**0.47 J**
Acetone	**18**
Benzene	**0.48 J**
Butane	**1.7**
Carbon Disulfide	**1.7**
Carbon Tetrachloride	**0.37**
Chlorodifluoromethane	**1.2 J**
Chloromethane	**1.2**
Cyclohexane	**0.2 J**
Dichlorodifluoromethane	**2.2 J**
Ethylbenzene	**0.51 J**
Isopropanol	**8 J**
m,p-Xylene	**2.1 J**
Methyl Ethyl Ketone (2-Butanone)	**0.85 J**
Methylene Chloride	**2**
N-Hexane	**1 J**
O-Xylene (1,2-Dimethylbenzene)	**0.61 J**
Tetrachloroethene (PCE)	**3.5**
Toluene	**7.1**
Trichlorofluoromethane	**1.2**

IA-3	10/17/2021
VOCs	
1,1,2-Trichloro-1,2,2-Trifluoroethane	**0.48 J**
1,2,4-Trimethylbenzene	**1.2**
1,3,5-Trimethylbenzene (Mesitylene)	**0.36 J**
2,2,4-Trimethylpentane	**0.47 J**
4-Ethyltoluene	**0.29 J**
Acetone	**25**
Benzene	**0.57 J**
Butane	**2**
Carbon Tetrachloride	**0.44**
Chlorodifluoromethane	**1.4 J**
Chloromethane	**1.2**
Cyclohexane	**0.89**
Cymene	**0.21 J**
Dichlorodifluoromethane	**2.4 J**
Ethylbenzene	**1.2**
Hexachlorobutadiene	**0.52 J**
Isopropanol	**15**
m,p-Xylene	**5.4**
Methyl Ethyl Ketone (2-Butanone)	**2.3**
Methylene Chloride	**8.8**
N-Heptane	**0.45 J**
N-Hexane	**5.1**
O-Xylene (1,2-Dimethylbenzene)	**1.4**
Tetrachloroethene (PCE)	**2.1**
Toluene	**22**
Trichlorofluoromethane	**1.3**

LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF SOIL BORING AND PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF OUTDOOR AIR SAMPLE
- LOCATION OF SUB-SLAB/INDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF PREVIOUS SOIL BORING AND GROUNDWATER MONITORING WELL
- APPROXIMATE LOCATION OF PREVIOUS SUB-SLAB/INDOOR/OUTDOOR AIR SAMPLE
- SITE BOUNDARY

NOTES

1. ALL CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER CUBIC METER

D - DILUTION
J - ESTIMATED VALUE
ND - NO EXCEEDANCE
VOCS - VOLATILE ORGANIC COMPOUNDS

20 0 20'

Title:

RI SOIL VAPOR INTRUSION ASSESSMENT DETECTIONS

458 EAST 99TH STREET
BROOKLYN, NY

Prepared for:

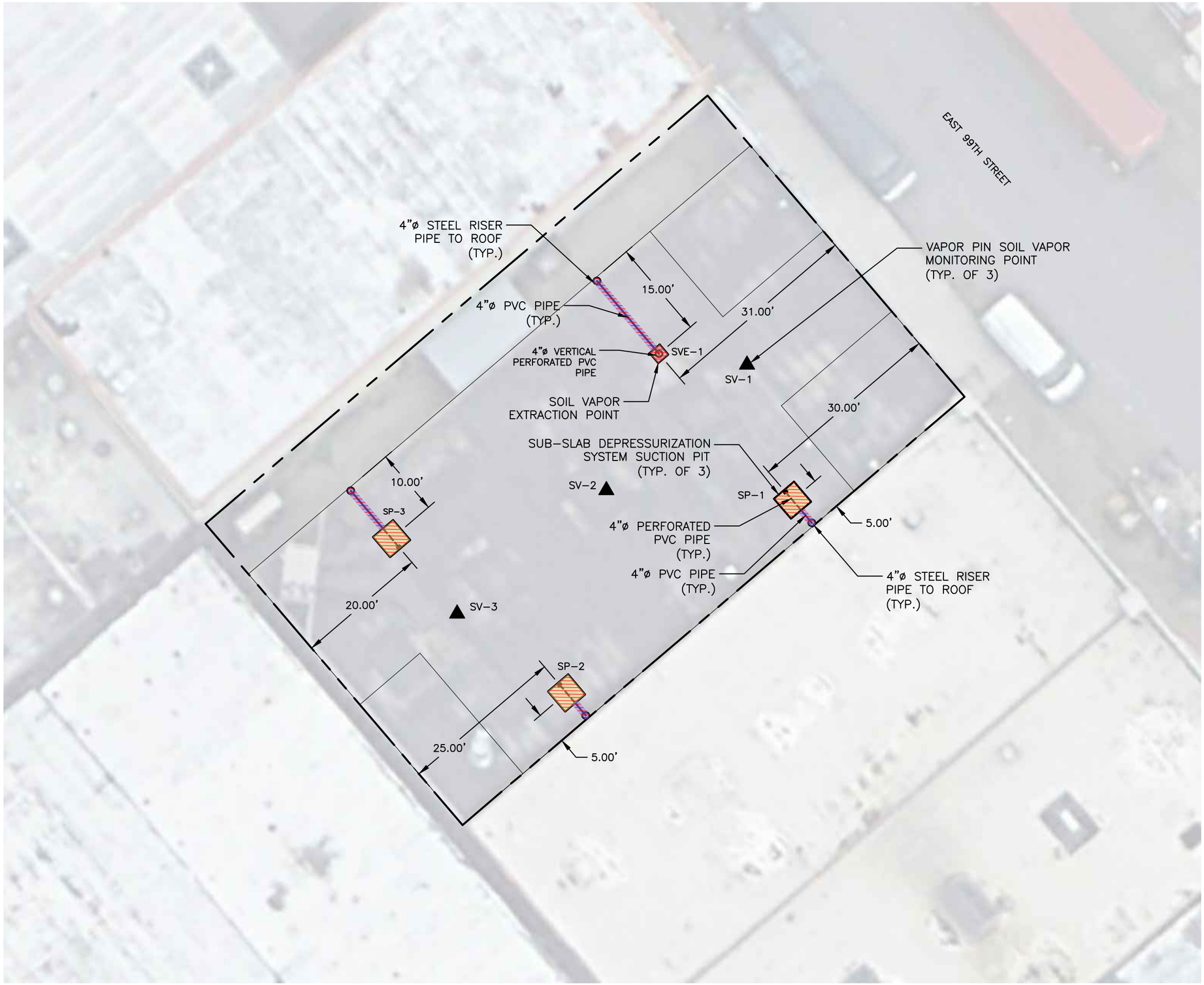
458 EAST 99TH STREET LLC

ROUX

Compiled by: M.H.	Date: 7/24/24
Prepared by: M.S.R.	Scale: AS SHOWN
Project Mgr: L.C.	Project: 4078.0001Y000
File: 3782.0001Y107.5.mxd	

FIGURE 6

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LEGEND

- SITE BOUNDARY
- SOIL VAPOR EXTRACTION POINT (EXCAVATION TO 7 FEET BLS)
- SUB–SLAB DEPRESSURIZATION SUCTION PIT (EXCAVATION TO 4 FEET BLS)
- LATERAL PIPING (EXCAVATION TO 4–INCHES BLS)
- VIRGIN STONE (BACKFILL)
- BLS BELOW LAND SURFACE

N

Title:

EXCAVATION AND BACKFILL AREA MAP

458 WAST 99TH STREET
BROOKLYN, NEW YORK

Prepared for:

458 EAST OWNERS LLC

ROUX

Compiled by: J.L.	Date: 5/12/2025	FIGURE 7
Prepared by: G.M.	Scale: AS SHOWN	
Project Mgr: D.K.	Project: 4078.0001Y000	
File: 4078.0001Y125.01.DWG		

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N

LEGEND

SUB-SLAB DEPRESSURIZATION SYSTEM/
SOIL VAPOR EXTRACTION SYSTEM

SITE BOUNDARY

NOTES

1. AERIAL SOURCE: NYS OFFICE OF INFORMATION TECHNOLOGY SERVICES GIS PROGRAM OFFICE (GPO)

30 0 30'

Title:

ENGINEERING CONTROLS

458 EAST 99TH STREET
BROOKLYN, NY

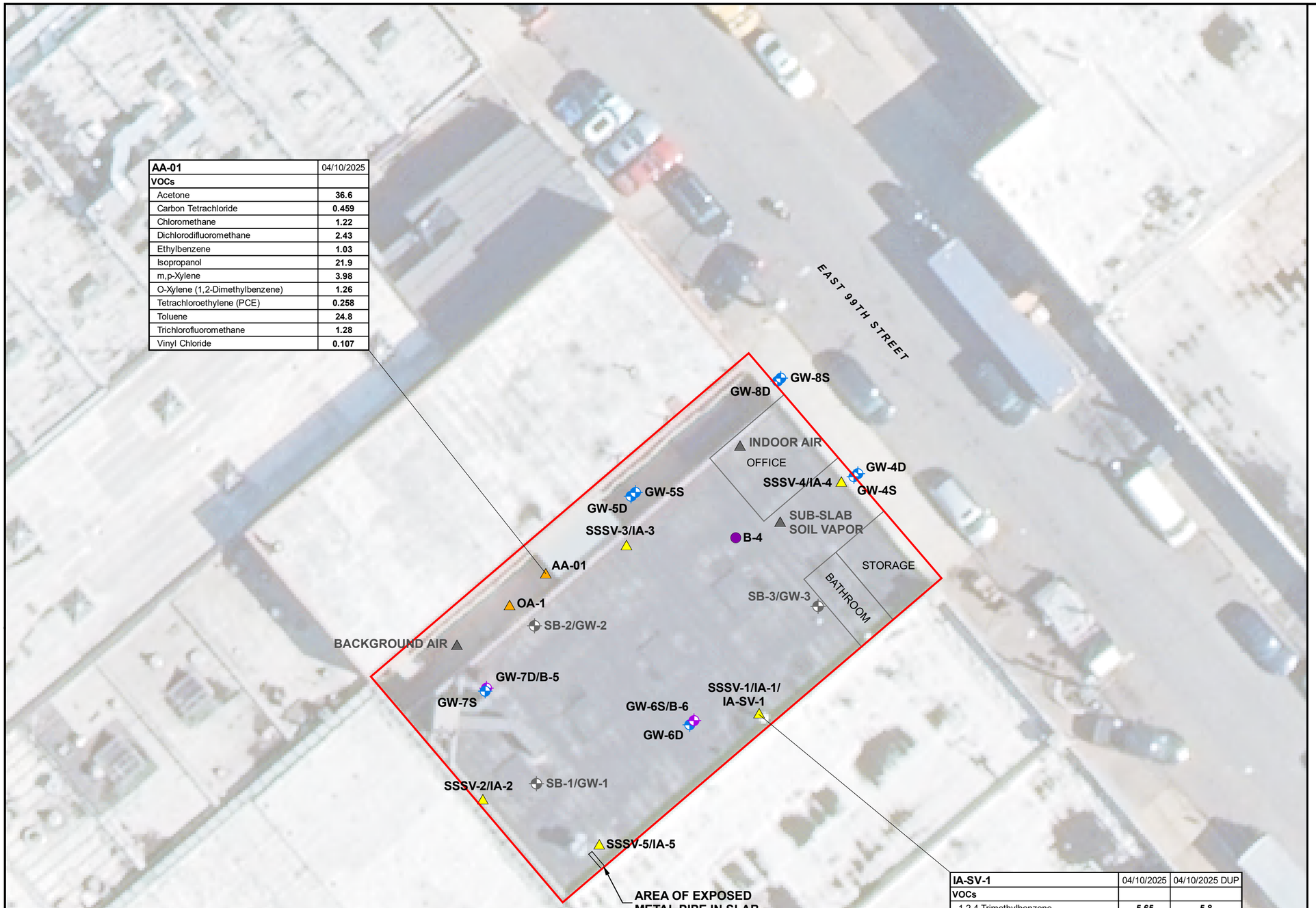
Prepared for:

458 EAST 99TH STREET LLC

ROUX

Compiled by: M.H.	Date: 07/25/24	FIGURE
Prepared by: M.S.R.	Scale: AS SHOWN	8
Project Mgr: D.K.	Project: 4078.0001Y000	
File: 4078.0001Y124.07.mxd		

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AA-01	04/10/2025
VOCs	
Acetone	**36.6**
Carbon Tetrachloride	**0.459**
Chloromethane	**1.22**
Dichlorodifluoromethane	**2.43**
Ethylbenzene	**1.03**
Isopropanol	**21.9**
m,p-Xylene	**3.98**
O-Xylene (1,2-Dimethylbenzene)	**1.26**
Tetrachloroethylene (PCE)	**0.258**
Toluene	**24.8**
Trichlorofluoromethane	**1.28**
Vinyl Chloride	**0.107**

IA-SV-1	04/10/2025	04/10/2025 DUP
VOCs		
1,2,4-Trimethylbenzene	**5.65**	**5.8**
1,3,5-Trimethylbenzene (Mesitylene)	**1.58**	**1.7**
4-Ethyltoluene	**1.3**	**1.34**
Acetone	**1700**	**1790**
Carbon Tetrachloride	**0.44**	**0.434**
Chloromethane	**1.24**	**1.27**
Cyclohexane	**10.4**	**11.9**
Dichlorodifluoromethane	**2.2**	**2.37**
Ethanol	**237**	**254**
Ethyl Acetate	**65.2**	**72.4**
Ethylbenzene	**53.9**	**57.3**
Isopropanol	**1030**	**1040**
m,p-Xylene	**223**	**238**
Methyl Ethyl Ketone (2-Butanone)	**6.16**	**6.87**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	**3.35**	**3.51**
Methylene Chloride	**7.12**	**7.57**
N-Heptane	**3.99**	**4.39**
N-Hexane	**3.42 J**	ND
O-Xylene (1,2-Dimethylbenzene)	**70.4**	**75.1**
Styrene	**2.61**	**2.76**
Tetrachloroethylene (PCE)	**0.142**	**0.149**
Toluene	**1420**	**1480**
Trichlorofluoromethane	**1.24**	**1.34**

N

LEGEND

- LOCATION OF SOIL BORING
- LOCATION OF PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF SOIL BORING AND PERMANENT GROUNDWATER MONITORING WELL
- LOCATION OF OUTDOOR AIR SAMPLE
- LOCATION OF SUB-SLAB/INDOOR AIR SAMPLE
- APPROXIMATE LOCATION OF PREVIOUS SOIL BORING AND GROUNDWATER MONITORING WELL
- APPROXIMATE LOCATION OF PREVIOUS SUB-SLAB/INDOOR/OUTDOOR AIR SAMPLE
- BCP SITE BOUNDARY

NOTES

1. ALL CONCENTRATIONS ARE SHOWN IN MICROGRAMS PER CUBIC METER

D - DILUTION
J - ESTIMATED VALUE
ND - NO EXCEEDANCE
VOCS - VOLATILE ORGANIC COMPOUNDS

15 0 15'

Title:

VOCS IN SOIL VAPOR INTRUSION SAMPLES POST_SVES/SSDS INSTALLATION

458 EAST 99TH STREET
BROOKLYN, NY

Prepared for:

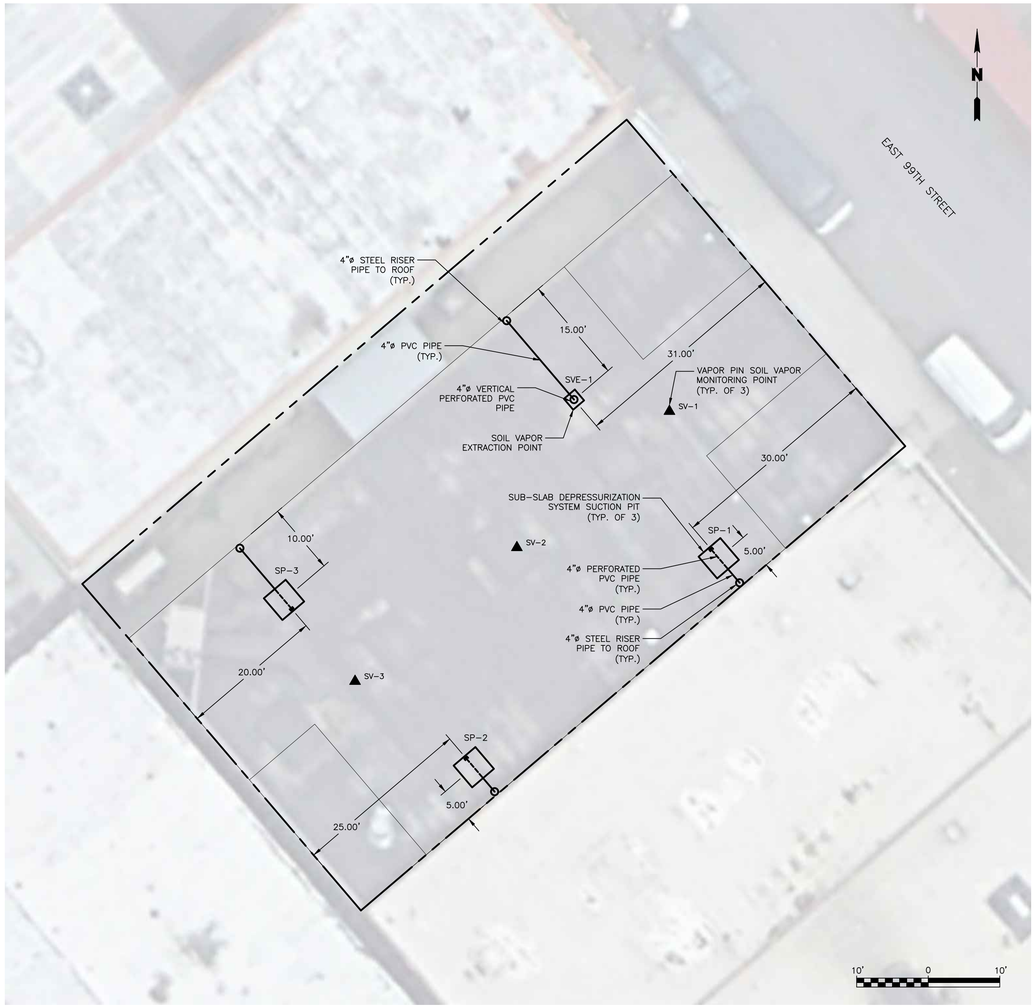
458 EAST OWNERS, LLC

ROUX

Compiled by: L.C.	Date: 05/13/25
Prepared by: M.S.R.	Scale: AS SHOWN
Project Mgr: L.C.	Project: 4078.0001Y000
File: 4078.0001Y124.9.mxd	

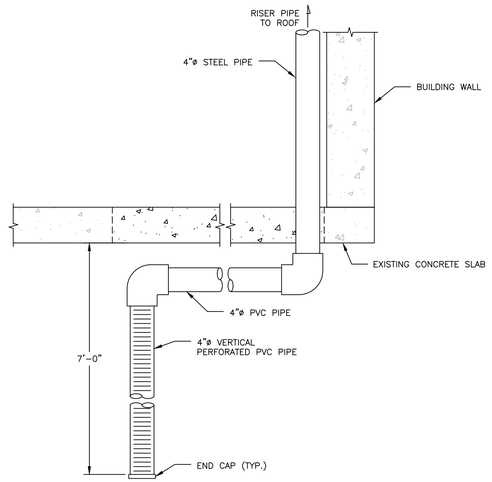
FIGURE 9

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SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION AS-BUILT

SCALE: 1" =10'



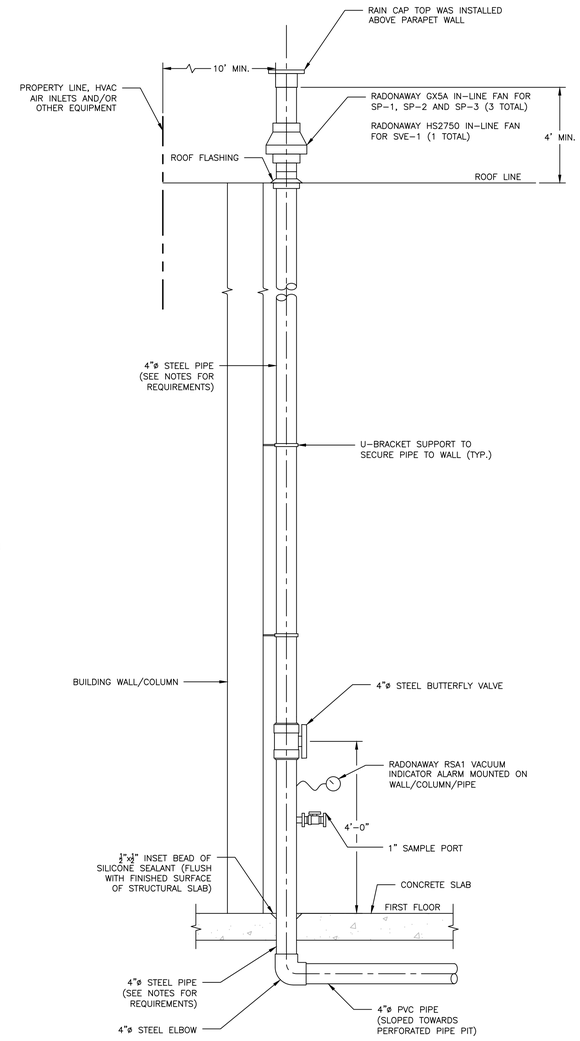
PROFILE VIEW

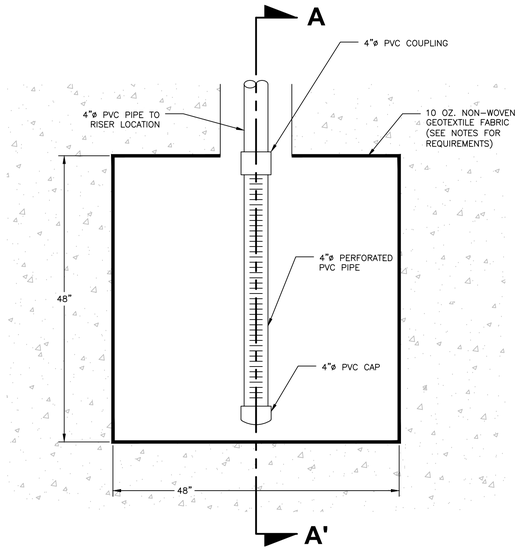
4 SOIL VAPOR EXTRACTION POINT DETAIL

SCALE: N.T.S.

SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM NOTES

1. CONTRACTOR COORDINATED INSTALLATION OF SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM (SVES/SSDS).
2. CONTRACTOR VERIFIED THE DESIGN INVERT ELEVATIONS (BOTTOM OF PIPING) FOR PENETRATIONS. THE CONTRACTOR VERIFIED HORIZONTAL OFFSETS FOR THE LOCATIONS OF VERTICAL RISERS.
3. ALL SVES/SSDS PIPING IS SLOPED TOWARDS THE PERFORATED PIPE SUCTION PITS TO PREVENT ANY POTENTIAL MOISTURE BUILD UP AND BLOCKADES.
4. ALL ABOVE GRADE SVES/SSDS PIPING (ALONG WITH FITTINGS AND APPURTENANCES) CONSISTS OF CAST-IRON PIPE AND WAS INSTALLED IN ACCORDANCE WITH THE NYC PLUMBING CODE CHAPTER 7 AND 9 FOR VENT PIPE.
5. PVC PIPE IS JOINED TOGETHER USING SLIP JOINTS SECURED WITH SELF-TAPPING SCREWS AND THREADED CONNECTIONS.
6. ALL PENETRATIONS THROUGH THE FLOOR ARE SEALED USING A SILICONE BASED WATERPROOF SEALANT.
7. THE BUILDING CONCRETE SLAB WAS RESTORED IN THE AREAS OF SVES/SSDS INSTALLATION AND IMPERFECTIONS/INCONSISTENCIES IN THE SLAB ARE SEALED AS PART OF THE SVES/SSDS INSTALLATION.
8. EACH SSDS SUCTION PIT WAS INSTALLED WITH A RADONAWAY GX5A IN-LINE FAN, VALVE AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
9. THE SVES POINT WAS INSTALLED WITH A RADONAWAY HS2750 IN-LINE FAN, VALVE, AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
10. THE SURFACES THAT WERE LINED WITH GEOTEXTILE WERE FREE OF ALL ROCKS, STONES, SHARP OBJECTS OR CONSTRUCTION DEBRIS OF ANY KIND.
11. GEOTEXTILE NONWOVEN FABRIC WAS INSTALLED DIRECTLY ON FILL, MATERIAL OVERLAPS WERE A MINIMUM OF 12" AND THE OVERLAPPED SEAMS WERE SEALED WITH TAPE.
12. NON-WOVEN GEOTEXTILE FABRIC MET PROPERTY VALUES
    a. MINIMUM MASS PER UNIT AREA OF 10 OZ/YD^2 AS PER ASTM D 5261
    b. MINIMUM GRAB STRENGTH OF 250 LBS AS PER ASTM D 4632
    c. MINIMUM PUNCTURE STRENGTH OF 700 LBS AS PER ASTM D 6241
    d. MINIMUM ULTRAVIOLET RESISTANCE @ 500 HOURS OF 70% AS PER ASTM D 4355

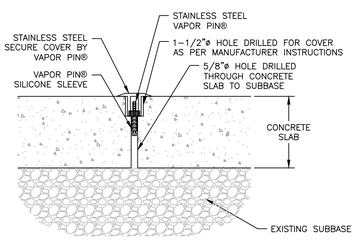




PLAN VIEW

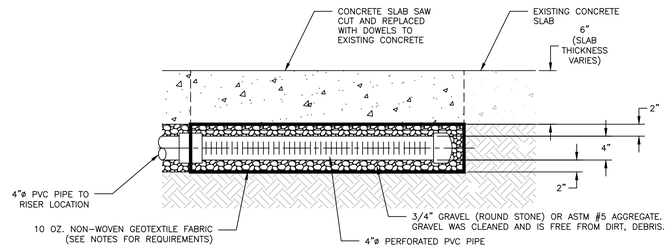
3 RISER DETAIL

SCALE: N.T.S.



1 TYPICAL SOIL VAPOR MONITORING POINT DETAIL

SCALE: N.T.S.



PROFILE VIEW A-A'

2 SUB-SLAB DEPRESSURIZATION SYSTEM SUCTION PIT DETAIL

SCALE: N.T.S.

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK — Nicole M. Clarke — No. 072269 — LICENSED PROFESSIONAL ENGINEER

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OFFICE:	NY	PAPER SIZE:	ARCH D
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ROUX
Roux Environmental Engineering and Geology, D.P.C.
209 SHAFTER STREET ISLANDIA NEW YORK 11749
(631) 232-2600

PROJECT NAME:
458 EAST 99TH STREET
BROOKLYN, NY 11236

PROJECT FOR:
458 EAST OWNERS LLC

TITLE:
SSDS/SVES AS BUILT

FIGURE NO.
10

V:\CAD\PROJECTS\4078Y\0001Y\124\4078.0001Y124.01.DWG BDOO

APPENDICES

A. Environmental Easement, Survey Map, Metes and Bounds
B. NYSDEC Approvals of Substantive Technical Requirements
C. Daily Progress Reports
D. Monthly Progress Reports
E. Digital Project Photo Log
F. Disposal Facility Profiles and Approval Documentation
G. Non-Hazardous Soil Disposal Manifests and Scale Tickets
H. Data Usability Summary Reports
I. Laboratory Analytical Reports
J. Imported Backfill Documentation
K. SSDS/SVES As-Built and Component Manual
L. SiteWise Analysis
M. Climate Screening Checklist
N. Chemical Inventory

APPENDIX A

Environmental Easement, Survey Map, Metes and Bounds

NYC DEPARTMENT OF FINANCE
OFFICE OF THE CITY REGISTER

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RECORDING AND ENDORSEMENT COVER PAGE **PAGE 1 OF 10**

Document ID: 2024090600429001 Document Date: 07-30-2024 Preparation Date: 10-01-2024
Document Type: EASEMENT
Document Page Count: 9

PRESENTER:
SIVE PAGET & RIESEL, P.C.
560 LEXINGTON AVENUE, 15TH FLOOR
NEW YORK, NY 10022
212-421-2150
NDUNCAN@SPRLAW.COM

RETURN TO:
SIVE PAGET & RIESEL, P.C.
560 LEXINGTON AVENUE, 15TH FLOOR
NEW YORK, NY 10022
212-421-2150
NDUNCAN@SPRLAW.COM

PROPERTY DATA

Borough	Block	Lot	Unit	Address
BROOKLYN	8131	56	Entire Lot	458 EAST 99TH STREET

Property Type: COMMERCIAL REAL ESTATE

CROSS REFERENCE DATA

CRFN_____ *or* DocumentID_____ *or* _____ Year_____ Reel____ Page_____ *or* File Number_____

PARTIES

GRANTOR/SELLER:
458 EAST OWNERS, LLC
458 EAST 99TH STREET
BROOKLYN, NY 11236

GRANTEE/BUYER:
PEOPLE OF NEW YORK BY DEPT. ENVIRONMENTAL CONSERVA
625 BROADWAY
ALBANY, NY 12233

FEES AND TAXES

Mortgage :		
Mortgage Amount:	$	0.00
Taxable Mortgage Amount:	$	0.00
Exemption:		
TAXES: County (Basic):	$	0.00
City (Additional):	$	0.00
Spec (Additional):	$	0.00
TASF:	$	0.00
MTA:	$	0.00
NYCTA:	$	0.00
Additional MRT:	$	0.00
TOTAL:	$	0.00
Recording Fee:	$	82.00
Affidavit Fee:	$	0.00

Filing Fee:	
$	100.00
NYC Real Property Transfer Tax:	
$	0.00
NYS Real Estate Transfer Tax:	
$	0.00

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City Register File No.(CRFN): **2024000257471**

City Register Official Signature

ENVIRONMENTAL EASEMENT GRANTED PURSUANT TO ARTICLE 71, TITLE 36 OF THE NEW YORK STATE ENVIRONMENTAL CONSERVATION LAW

THIS INDENTURE made this as of day of July, 2024, between Owner, 458 East Owners, LLC, having an office at 458 East 99th Street, Brooklyn, County of Kings, State of New York (the "Grantor"), and The People of the State of New York (the "Grantee"), acting through their Commissioner of the Department of Environmental Conservation (the "Commissioner", or "NYSDEC" or "Department" as the context requires) with its headquarters located at 625 Broadway, Albany, New York 12233,

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to encourage the remediation of abandoned and likely contaminated properties ("sites") that threaten the health and vitality of the communities they burden while at the same time ensuring the protection of public health and the environment; and

WHEREAS, the Legislature of the State of New York has declared that it is in the public interest to establish within the Department a statutory environmental remediation program that includes the use of Environmental Easements as an enforceable means of ensuring the performance of operation, maintenance, and/or monitoring requirements and the restriction of future uses of the land, when an environmental remediation project leaves residual contamination at levels that have been determined to be safe for a specific use, but not all uses, or which includes engineered structures that must be maintained or protected against damage to perform properly and be effective, or which requires groundwater use or soil management restrictions; and

WHEREAS, the Legislature of the State of New York has declared that Environmental Easement shall mean an interest in real property, created under and subject to the provisions of Article 71, Title 36 of the New York State Environmental Conservation Law ("ECL") which contains a use restriction and/or a prohibition on the use of land in a manner inconsistent with engineering controls which are intended to ensure the long term effectiveness of a site remedial program or eliminate potential exposure pathways to hazardous waste or petroleum; and

WHEREAS, Grantor, is the owner of real property located at the address of 458 East 99th Street in the City of New York, County of Kings and State of New York, known and designated on the tax map of the New York City Department of Finance as tax map parcel number: Block 8131 Lot 56, being the same as that property conveyed to Grantor by deed dated September 12, 2016 and recorded in the City Register of the City of New York in City Register File No. 2016000326886. The property subject to this Environmental Easement (the "Controlled Property") comprises approximately 0.14 +/- acres, and is hereinafter more fully described in the Land Title Survey dated February 13, 2012, and last revised May 28, 2024, prepared by Oriana Nicoletti-Greco, which will be attached to the Site Management Plan. The Controlled Property description is set forth in and attached hereto as Schedule A; and

WHEREAS, the Department accepts this Environmental Easement in order to ensure the protection of public health and the environment and to achieve the requirements for remediation established for the Controlled Property until such time as this Environmental Easement is extinguished pursuant to ECL Article 71, Title 36; and

NOW THEREFORE, in consideration of the mutual covenants contained herein and the terms and conditions of Brownfield Cleanup Agreement Index Number: C224254-01-20, Grantor conveys to Grantee a permanent Environmental Easement pursuant to ECL Article 71, Title 36 in, on, over, under, and upon the Controlled Property as more fully described herein ("Environmental Easement").

1. Purposes. Grantor and Grantee acknowledge that the Purposes of this Environmental Easement are: to convey to Grantee real property rights and interests that will run with the land in perpetuity in order to provide an effective and enforceable means of encouraging the reuse and redevelopment of this Controlled Property at a level that has been determined to be safe for a specific use while ensuring the performance of operation, maintenance, and/or monitoring requirements; and to ensure the restriction of future uses of the land that are inconsistent with the above-stated purpose.

2. Institutional and Engineering Controls. The controls and requirements listed in the Department approved Site Management Plan ("SMP") including any and all Department approved amendments to the SMP are incorporated into and made part of this Environmental Easement. These controls and requirements apply to the use of the Controlled Property, run with the land, are binding on the Grantor and the Grantor's successors and assigns, and are enforceable in law or equity against any owner of the Controlled Property, any lessees and any person using the Controlled Property.

A. (1) The Controlled Property may be used for:

Commercial as described in 6 NYCRR Part 375-1.8(g)(2)(iii) and Industrial as described in 6 NYCRR Part 375-1.8(g)(2)(iv)

(2) All Engineering Controls must be operated and maintained as specified in the Site Management Plan (SMP);

(3) All Engineering Controls must be inspected at a frequency and in a manner defined in the SMP;

(4) The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the NYSDOH or the New York City Department of Health and Mental Hygiene to render it safe for use as drinking water or for industrial purposes, and the user must first notify and obtain written approval to do so from the Department;

(5) Groundwater and other environmental or public health monitoring must be performed as defined in the SMP;

(6) Data and information pertinent to Site Management of the Controlled Property must be reported at the frequency and in a manner defined in the SMP;

(7) All future activities on the property that will disturb remaining contaminated material must be conducted in accordance with the SMP;

(8) Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the SMP;

(9) Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical components of the remedy shall be performed as defined in the SMP;

(10) Access to the site must be provided to agents, employees or other representatives of the State of New York with reasonable prior notice to the property owner to assure compliance with the restrictions identified by this Environmental Easement.

B. The Controlled Property shall not be used for Residential or Restricted Residential purposes as defined in 6NYCRR 375-1.8(g)(2)(i) and (ii), and the above-stated engineering controls may not be discontinued without an amendment or extinguishment of this Environmental Easement.

C. The SMP describes obligations that the Grantor assumes on behalf of Grantor, its successors and assigns. The Grantor's assumption of the obligations contained in the SMP which may include sampling, monitoring, and/or operating a treatment system, and providing certified reports to the NYSDEC, is and remains a fundamental element of the Department's determination that the Controlled Property is safe for a specific use, but not all uses. The SMP may be modified in accordance with the Department's statutory and regulatory authority. The Grantor and all successors and assigns, assume the burden of complying with the SMP and obtaining an up-to-date version of the SMP from:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, New York 12233
Phone: (518) 402-9553

D. Grantor must provide all persons who acquire any interest in the Controlled Property a true and complete copy of the SMP that the Department approves for the Controlled Property and all Department-approved amendments to that SMP.

E. Grantor covenants and agrees that until such time as the Environmental Easement is extinguished in accordance with the requirements of ECL Article 71, Title 36 of the ECL, the property deed and all subsequent instruments of conveyance relating to the Controlled Property shall state in at least fifteen-point bold-faced type:

This property is subject to an Environmental Easement held by the New York State Department of Environmental Conservation pursuant to Title 36 of Article 71 of the Environmental Conservation

Law.

F. Grantor covenants and agrees that this Environmental Easement shall be incorporated in full or by reference in any leases, licenses, or other instruments granting a right to use the Controlled Property.

G. Grantor covenants and agrees that it shall, at such time as NYSDEC may require, submit to NYSDEC a written statement by an expert the NYSDEC may find acceptable certifying under penalty of perjury, in such form and manner as the Department may require, that:

(1) the inspection of the site to confirm the effectiveness of the institutional and engineering controls required by the remedial program was performed under the direction of the individual set forth at 6 NYCRR Part 375-1.8(h)(3).

(2) the institutional controls and/or engineering controls employed at such site:

(i) are in-place;

(ii) are unchanged from the previous certification, or that any identified changes to the controls employed were approved by the NYSDEC and that all controls are in the Department-approved format; and

(iii) that nothing has occurred that would impair the ability of such control to protect the public health and environment;

(3) the owner will continue to allow access to such real property to evaluate the continued maintenance of such controls;

(4) nothing has occurred that would constitute a violation or failure to comply with any site management plan for such controls;

(5) the report and all attachments were prepared under the direction of, and reviewed by, the party making the certification;

(6) to the best of his/her knowledge and belief, the work and conclusions described in this certification are in accordance with the requirements of the site remedial program, and generally accepted engineering practices; and

(7) the information presented is accurate and complete.

3. Right to Enter and Inspect. Grantee, its agents, employees, or other representatives of the State may enter and inspect the Controlled Property in a reasonable manner and at reasonable times to assure compliance with the above-stated restrictions.

4. Reserved Grantor's Rights. Grantor reserves for itself, its assigns, representatives, and successors in interest with respect to the Property, all rights as fee owner of the Property, including:

A. Use of the Controlled Property for all purposes not inconsistent with, or limited by the terms of this Environmental Easement;

B. The right to give, sell, assign, or otherwise transfer part or all of the underlying fee interest to the Controlled Property, subject and subordinate to this Environmental Easement;

5. Enforcement

A. This Environmental Easement is enforceable in law or equity in perpetuity by Grantor, Grantee, or any affected local government, as defined in ECL Section 71-3603, against

the owner of the Property, any lessees, and any person using the land. Enforcement shall not be defeated because of any subsequent adverse possession, laches, estoppel, or waiver. It is not a defense in any action to enforce this Environmental Easement that: it is not appurtenant to an interest in real property; it is not of a character that has been recognized traditionally at common law; it imposes a negative burden; it imposes affirmative obligations upon the owner of any interest in the burdened property; the benefit does not touch or concern real property; there is no privity of estate or of contract; or it imposes an unreasonable restraint on alienation.

B. If any person violates this Environmental Easement, the Grantee may revoke the Certificate of Completion with respect to the Controlled Property.

C. Grantee shall notify Grantor of a breach or suspected breach of any of the terms of this Environmental Easement. Such notice shall set forth how Grantor can cure such breach or suspected breach and give Grantor a reasonable amount of time from the date of receipt of notice in which to cure. At the expiration of such period of time to cure, or any extensions granted by Grantee, the Grantee shall notify Grantor of any failure to adequately cure the breach or suspected breach, and Grantee may take any other appropriate action reasonably necessary to remedy any breach of this Environmental Easement, including the commencement of any proceedings in accordance with applicable law.

D. The failure of Grantee to enforce any of the terms contained herein shall not be deemed a waiver of any such term nor bar any enforcement rights.

6. Notice. Whenever notice to the Grantee (other than the annual certification) or approval from the Grantee is required, the Party providing such notice or seeking such approval shall identify the Controlled Property by referencing the following information:

County, NYSDEC Site Number, NYSDEC Brownfield Cleanup Agreement, State Assistance Contract or Order Number, and the County tax map number or the Liber and Page or computerized system identification number.

Parties shall address correspondence to:

Site Number: C224254
Office of General Counsel
NYSDEC
625 Broadway
Albany New York 12233-5500

With a copy to:

Site Control Section
Division of Environmental Remediation
NYSDEC
625 Broadway
Albany, NY 12233

All notices and correspondence shall be delivered by hand, by registered mail or by Certified mail and return receipt requested. The Parties may provide for other means of receiving and communicating notices and responses to requests for approval.

7. Recordation. Grantor shall record this instrument, within thirty (30) days of execution of this instrument by the Commissioner or her/his authorized representative in the office of the

recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

8. Amendment. Any amendment to this Environmental Easement may only be executed by the Commissioner of the New York State Department of Environmental Conservation or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

9. Extinguishment. This Environmental Easement may be extinguished only by a release by the Commissioner of the New York State Department of Environmental Conservation, or the Commissioner's Designee, and filed with the office of the recording officer for the county or counties where the Property is situated in the manner prescribed by Article 9 of the Real Property Law.

10. Joint Obligation. If there are two or more parties identified as Grantor herein, the obligations imposed by this instrument upon them shall be joint and several.

11. Consistency with the SMP. To the extent there is any conflict or inconsistency between the terms of this Environmental Easement and the SMP, regarding matters specifically addressed by the SMP, the terms of the SMP will control.

Remainder of Page Intentionally Left Blank

IN WITNESS WHEREOF, Grantor has caused this instrument to be signed in its name.

458 East Owners, LLC:

By: Wolfgang Michelitsch

Print Name: Wolfgang Michelitsch

Title: Manager/Sole Member Date: 7.10.2024

Grantor's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF Queens)

On the 10 day of July, in the year 2024 before me, the undersigned, personally appeared Wolfgang Michelitsch personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Michael Tighe
Notary Public - State of New York

MICHAEL TIGHE
NOTARY PUBLIC, STATE OF NEW YORK
Registration No. 01-T16424056
Qualified in Nassau County
Commission Expires 10/25/25

THIS ENVIRONMENTAL EASEMENT IS HEREBY ACCEPTED BY THE PEOPLE OF THE STATE OF NEW YORK, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____
Janet E. Brown, Assistant Director
Division of Environmental Remediation

Grantee's Acknowledgment

STATE OF NEW YORK)
) ss:
COUNTY OF ALBANY)

On the 2nd day of August, in the year 2024 before me, the undersigned, personally appeared Andrew O. Guglielmi, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/ executed the same in his/her/ capacity as Designee of the Commissioner of the State of New York Department of Environmental Conservation, and that by his/her/ signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

_____
Notary Public - State of New York

JENNIFER ANDALORO
Notary Public, State of New York
No. 02AN6098246
Qualified in Albany County
Commission Expires January 14, 2028

SCHEDULE "A" PROPERTY DESCRIPTION

ALL that certain plot, piece or parcel of land, situate, lying and being in the Borough of Brooklyn, County of Kings, City and State of New York, known and designated as and by Lot Numbers 34, 35 and 36 in Block 8131 as shown on a certain map entitled, "Map of property of Brooklyn and Philadelphia Realty Company" located in the Thirty-Second Ward of the Borough of Brooklyn, City of New York, surveyed May 15, 1906 by Alex D. Murphy, Civil Engineer and Surveyor and filed in the Office of the Register of Kings County on February 7, 1911, as Map Number 1555, which said lots according to said map are bounded and described as follows:

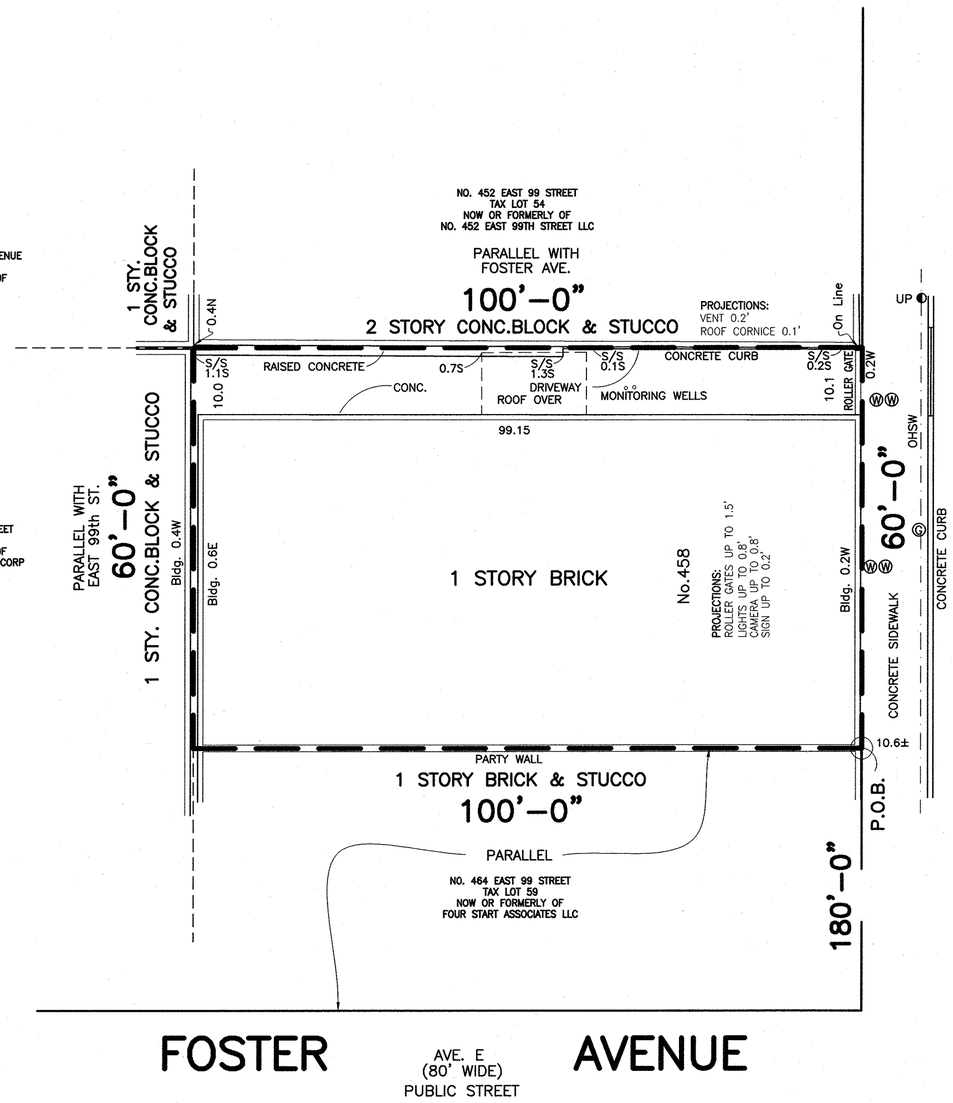
BEGINNING at a point on the westerly side of East 99th Street, distant 180 feet northerly from the corner formed by the intersection of the westerly side of East 99th Street with the northerly side of Foster Avenue;

RUNNING THENCE westerly through a party wall and parallel with the northerly side of Foster Avenue, 100 feet to a point;

RUNNING THENCE northerly parallel with the westerly side of East 99th Street, 60 feet to a point;

RUNNING THENCE easterly parallel with the northerly side of Foster Avenue 100 feet to the westerly side of East 99th Street; and

RUNNING THENCE southerly along the westerly side of East 99th Street 60 feet to the point or place of BEGINNING.

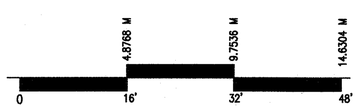


LEGEND:

- P.O.B. .....POINT OF BEGINNING
- S/S .....SOUTH SIDE
- STY. .....STORY
- BSMT. .....BASEMENT
- BLDG. .....BUILDING
- CONC. .....CONCRETE
- .....HANDICAPPED PARKING SPACE
- .....LIGHT POLE
- - x - x - .....FENCE
- Ⓖ .....GAS VALVE
- OHSW .....OVERHEAD SERVICE WIRES
- Ⓦ .....WATER MANHOLE
- UP .....UTILITY POLE

ENVIRONMENTAL EASEMENT AREA

"THIS PROPERTY IS SUBJECT TO AN ENVIRONMENTAL EASEMENT HELD BY THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION PURSUANT TO TITLE 36 OF ARTICLE 71 OF THE NEW YORK ENVIRONMENTAL CONSERVATION LAW. THE ENGINEERING AND INSTITUTIONAL CONTROLS FOR THIS EASEMENT ARE SET FORTH IN MORE DETAIL IN THE SITE MANAGEMENT PLAN (SMP). A COPY OF THE SMP MUST BE OBTAINED BY ANY PARTY WITH AN INTEREST IN THE PROPERTY. THE SMP CAN BE OBTAINED FROM NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION, DIVISION OF ENVIRONMENTAL REMEDIATION, SITE CONTROL SECTION, 625 BROADWAY, ALBANY, NY 12233 OR AT DERWEB@DEC.NY.GOV".



DRAWN BY AG/J.S./A.R.

REF.NO.: K8131-002

LEGAL DESCRIPTION:

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, KNOWN AND DESIGNATED AS AND BY LOT NUMBERS 34, 35 AND 36 IN BLOCK 8131 AS SHOWN ON A CERTAIN MAP ENTITLED, "MAP OF PROPERTY OF BROOKLYN AND PHILADELPHIA REALTY COMPANY" LOCATED IN THE THIRTY-SECOND WARD OF THE BOROUGH OF BROOKLYN, CITY OF NEW YORK, SURVEYED MAY 15, 1906 BY ALEX D. MURPHY, CIVIL ENGINEER AND SURVEYOR AND FILED IN THE OFFICE OF THE REGISTER OF KINGS COUNTY ON FEBRUARY 7, 1911, AS MAP NUMBER 1555, WHICH SAID LOTS ACCORDING TO SAID MAP ARE BOUNDED AND DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT ON THE WESTERLY SIDE OF EAST 99TH STREET, DISTANT 180 FEET NORTHERLY FROM THE CORNER FORMED BY THE INTERSECTION OF THE WESTERLY SIDE OF EAST 99TH STREET WITH THE NORTHERLY SIDE OF FOSTER AVENUE;

RUNNING THENCE WESTERLY THROUGH A PARTY WALL AND PARALLEL WITH THE NORTHERLY SIDE OF FOSTER AVENUE, 100 FEET TO A POINT;

RUNNING THENCE NORTHERLY PARALLEL WITH THE WESTERLY SIDE OF EAST 99TH STREET, 60 FEET TO A POINT;

RUNNING THENCE EASTERLY PARALLEL WITH THE NORTHERLY SIDE OF FOSTER AVENUE 100 FEET TO THE WESTERLY SIDE OF EAST 99TH STREET; AND

RUNNING THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF EAST 99TH STREET 60 FEET TO THE POINT OR PLACE OF BEGINNING.

PARCEL AREA = 6000.0 SQ.FT. = 0.14 ACRES

THE LEGAL DESCRIPTION AND ENVIRONMENTAL EASEMENT AREA DESCRIPTION ENCOMPASS THE ENTIRE SUBJECT PARCEL AND ARE THE SAME.

ENVIRONMENTAL EASEMENT AREA DESCRIPTION:

ALL THAT CERTAIN PLOT, PIECE OR PARCEL OF LAND, SITUATE, LYING AND BEING IN THE BOROUGH OF BROOKLYN, COUNTY OF KINGS, CITY AND STATE OF NEW YORK, KNOWN AND DESIGNATED AS AND BY LOT NUMBERS 34, 35 AND 36 IN BLOCK 8131 AS SHOWN ON A CERTAIN MAP ENTITLED, "MAP OF PROPERTY OF BROOKLYN AND PHILADELPHIA REALTY COMPANY" LOCATED IN THE THIRTY-SECOND WARD OF THE BOROUGH OF BROOKLYN, CITY OF NEW YORK, SURVEYED MAY 15, 1906 BY ALEX D. MURPHY, CIVIL ENGINEER AND SURVEYOR AND FILED IN THE OFFICE OF THE REGISTER OF KINGS COUNTY ON FEBRUARY 7, 1911, AS MAP NUMBER 1555, WHICH SAID LOTS ACCORDING TO SAID MAP ARE BOUNDED AND DESCRIBED AS FOLLOWS:

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RUNNING THENCE WESTERLY THROUGH A PARTY WALL AND PARALLEL WITH THE NORTHERLY SIDE OF FOSTER AVENUE, 100 FEET TO A POINT;

RUNNING THENCE NORTHERLY PARALLEL WITH THE WESTERLY SIDE OF EAST 99TH STREET, 60 FEET TO A POINT;

RUNNING THENCE EASTERLY PARALLEL WITH THE NORTHERLY SIDE OF FOSTER AVENUE 100 FEET TO THE WESTERLY SIDE OF EAST 99TH STREET; AND

RUNNING THENCE SOUTHERLY ALONG THE WESTERLY SIDE OF EAST 99TH STREET 60 FEET TO THE POINT OR PLACE OF BEGINNING.

PARCEL AREA = 6000.0 SQ.FT. = 0.14 ACRES

THE LEGAL DESCRIPTION AND ENVIRONMENTAL EASEMENT AREA DESCRIPTION ENCOMPASS THE ENTIRE SUBJECT PARCEL AND ARE THE SAME.

SURVEYORS NOTES:

1. THE RECORD DESCRIPTION MATHEMATICALLY CLOSES.
2. THE SUBJECT PROPERTY HAS DIRECT PHYSICAL ACCESS TO AND FROM EAST 99TH STREET, A DULY DEDICATED AND ACCEPTED PUBLIC STREET OR HIGHWAY AS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
3. THERE ARE NO OBSERVABLE OFFSITE EASEMENTS AND/OR SERVITUDES, OF WHICH THE UNDERSIGNED HAS BEEN ADVISED.
4. THERE IS NO VISUAL EVIDENCE OF CEMETERIES OR BURIAL GROUNDS LOCATED ON THE SUBJECT PROPERTY AS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
5. THERE IS NO VISIBLE EVIDENCE OF THE SITE BEING USED AS A SOLID WASTE DUMP, SUMP OR SANITARY LANDFILL AS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
6. THERE ARE NO VISIBLE PONDS, LAKES, SPRINGS, RIVERS OR A NATURAL WATER BOUNDARY BORDERING ON OR RUNNING THROUGH THE SURVEYED PROPERTY AS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.

CERTIFIED TO:
THE NYS DEPARTMENT OF ENVIRONMENTAL CONSERVATION
458 EAST OWNERS, LLC

DATE	REVISIONS
05/02/2023	EEA & ECA SURVEY
04/30/2024	UPDATED
05/28/2024	AMENDED PER COMMENTS

SEAL

STATE OF NEW YORK
ORIANA NICOLETTI-GRECO
LICENSED
050970
PROFESSIONAL LAND SURVEYOR

SURVEY OF PROPERTY

(WITH ENVIRONMENTAL EASEMENT AREA)

TAX SECT.: 24	TAX BLOCK: 8131	TAX LOT: 56

MAP OF PROPERTY AT

NYSED BCP SITE NO: C224254

SITE NAME: 458 EAST 99TH STREET

458 EAST 99TH STREET, BROOKLYN, NY 11236

EUROWOODWORKING@AOL.COM

JOSEPH NICOLETTI ASSOCIATES
PROFESSIONAL LAND SURVEYORS, P.C.
499 JERICHO TURNPIKE, SUITE 201
MINEOLA, NEW YORK 11501
516-873-7278

DATE: 02/13/2012	SCALE: 1"=16'	REF.NO.: K8131-002

THE EXISTENCE OF RIGHT-OF-WAYS AND/OR EASEMENTS OF RECORD, IF ANY, NOT SHOWN HEREON, ARE NOT CERTIFIED. ENCROACHMENTS OR VAULTS, IF ANY, BELOW SURFACE ARE NOT SHOWN.

UNAUTHORIZED ALTERATIONS OR ADDITIONS TO THIS SURVEY IS A VIOLATION OF SECTION 7209 OF THE NEW YORK STATE EDUCATION LAW. COPIES OF THIS SURVEY MAP NOT BEARING THE LAND SURVEYORS INKED SEAL OR EMBOSSED SEAL SHALL NOT BE CONSIDERED TO BE A VALID TRUE COPY. GUARANTEES OR CERTIFICATIONS INDICATED HEREON SHALL RUN ONLY TO THE PERSON FOR WHOM THE SURVEY IS PREPARED AND ON HIS BEHALF TO THE TITLE COMPANY, GOVERNMENTAL AGENCY AND LENDING INSTITUTION LISTED HEREON, AND TO THE ASSIGNEES OF THE LENDING INSTITUTION. GUARANTEES OR CERTIFICATIONS ARE NOT TRANSFERABLE TO ADDITIONAL INSTITUTIONS OR SUBSEQUENT OWNERS.

© 2024 JOSEPH NICOLETTI ASSOCIATES, PROFESSIONAL LAND SURVEYORS, P.C. – ALL RIGHTS RESERVED

APPENDIX B

NYSDEC Approvals of Substantive Technical Requirements

From:	Salazar, Marlen C (DEC)
To:	Levi Curnutte
Cc:	Noelle Clarke; Drew Kaplan; Maycock, Cris-Sandra (DEC)
Subject:	458 East 99th Street (C224254) - CAMP Clarification
Date:	Monday, May 13, 2024 1:50:09 PM
Attachments:	image001.png image002.png image003.png image004.png

This message originated outside your organization. Please use caution!

Hi Levi,

Recall that you had asked to clarify whether CAMP would be required during remedial action at the above referenced site during our pre-construction meeting last Wednesday, 5/8. Just confirmed with DOH that CAMP is not required so long as all work occurs indoors and the building is completely unoccupied (aside from the SVE/SSDS contractor and Roux) which is consistent with the RAWP.

Hope that answers your question. Let me know if there's anything else I can clarify!

Best,
Marlen

Marlen Salazar
Pronouns: She/her/hers
Engineer Trainee, Superfund and Brownfield Cleanup Section A, Region 2, Division of Environmental Remediation

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, New York 11101
P: 718-482-7129 | marlen.salazar@dec.ny.gov

www.dec.ny.gov | | | |

NEW YORK STATE | Department of Environmental Conservation

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Office of the Director
625 Broadway, 12th Floor, Albany, NY 12233-7011
P: (518) 402-9706 I F: (518) 402-9020
www.dec.ny.gov

APR – 2 2020

Mr. Warren Bell
458 East 99th Street LLC
3333 Royal Avenue
Oceanside, NY 11572

RE: Site Name: 458 East 99th Street
Site No.: C224254
Location of Site: 458 East 99th Street, Kings County, Brooklyn, NY 11236

Dear Mr. Bell:

To complete your file, attached is a fully executed copy of the Brownfield Cleanup Agreement for the 458 East 99th Street Site.

If you have any further questions relating to this matter, please contact the project attorney for this site, James Simpson, Esq., NYS Department of Environmental Conservation, Office of General Counsel, 1 Hunter's Point Plaza, 47-40 21st Street, Long Island City, NY 11101-5401 or by email at james.simpson@dec.ny.gov.

Sincerely,

Michael J. Ryan, P.E.
Director
Division of Environmental Remediation

Enclosure

ec: Shaun Bollers, Project Manager

cc: James Simpson, Esq.
Jennifer Andaloro, Esq./Dale Thiel

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
BROWNFIELD CLEANUP PROGRAM
ECL §27-1401 *et seq.*

In the Matter of a Remedial Program for

BROWNFIELD SITE CLEANUP AGREEMENT
Index No. C224254-01-20

458 East 99th Street
DEC Site No:C224254
Located at: 458 East 99th Street
Kings County
Brooklyn, NY 11236

Hereinafter referred to as "Site"

by:

458 East 99th Street LLC
3333 Royal Avenue, Oceanside, NY 11572

Hereinafter referred to as "Applicant"

WHEREAS, the Department of Environmental Conservation ("Department") is authorized to administer the Brownfield Cleanup Program ("BCP") set forth in Article 27, Title 14 of the Environmental Conservation Law ("ECL"); and

WHEREAS, the Applicant submitted an application received by the Department on June 24, 2019; and

WHEREAS, the Department has determined that the Site and Applicant are eligible to participate in the BCP.

NOW, THEREFORE, IN CONSIDERATION OF AND IN EXCHANGE FOR THE MUTUAL COVENANTS AND PROMISES, THE PARTIES AGREE TO THE FOLLOWING:

I. Applicant Status

The Applicant, 458 East 99th Street LLC, is participating in the BCP as a Volunteer as defined in ECL 27-1405(1)(b).

II. Tangible Property Tax Credit Status

The Site is located in a City having a population of one million or more and the Applicant has not requested a determination that the Site is eligible for tangible property tax credits. It is therefore presumed that the Site is not eligible for tangible property tax credits. In accordance with ECL § 27-1407(1-a), the Applicant may request an eligibility determination for tangible property tax credits at any time from application until the site receives a certificate of completion except for sites seeking eligibility under the underutilized category.

III. Real Property

The Site subject to this Brownfield Cleanup Agreement (the "BCA" or "Agreement") consists of approximately 0.138 acres, a Map of which is attached as Exhibit "A", and is described as follows:

Tax Map/Parcel No.: 3-8131-56
Street Number: 458 East 99th Street, Brooklyn
Owner: 458 East Owners, LLC

IV. Communications

A. All written communications required by this Agreement shall be transmitted by United States Postal Service, by private courier service, by hand delivery, or by electronic mail.

1. Communication from Applicant shall be sent to:

Shaun Bollers
New York State Department of Environmental Conservation
Division of Environmental Remediation
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101
shaun.bollers@dec.ny.gov

Note: one hard copy (unbound) of work plans and reports is required, as well as one electronic copy.

Christine Vooris (electronic copy only)
New York State Department of Health
Bureau of Environmental Exposure Investigation
Empire State Plaza
Corning Tower Room 1787
Albany, NY 12237
christine.vooris@health.ny.gov

James L. Simpson, Esq. (correspondence only)
New York State Department of Environmental Conservation
Office of General Counsel
One Hunters Point Plaza
47-40 21st Street
Long Island City, NY 11101
james.simpson@dec.ny.gov

2. Communication from the Department to Applicant shall be sent to:

458 East 99th Street LLC
Attn: Warren Bell
3333 Royal Avenue
Oceanside, NY 11572
info@bialy.com

B. The Department and Applicant reserve the right to designate additional or different addressees for communication on written notice to the other. Additionally, the Department reserves the right to request that the Applicant provide more than one paper copy of any work plan or report.

C. Each party shall notify the other within ninety (90) days after any change in the addresses listed in this paragraph or in Paragraph III.

V. Miscellaneous

A. Applicant acknowledges that it has read, understands, and agrees to abide by all the terms set forth in Appendix A - "Standard Clauses for All New York State Brownfield Site Cleanup Agreements" which is attached to and hereby made a part of this Agreement as if set forth fully herein.

B. In the event of a conflict between the terms of this BCA (including any and all attachments thereto and amendments thereof) and the terms of Appendix A, the terms of this BCA shall control.

C. The effective date of this Agreement is the date it is signed by the Commissioner or the Commissioner's designee.

DATED:

APR – 2 2020

THIS BROWNFIELD CLEANUP AGREEMENT IS HEREBY APPROVED, Acting by and Through the Department of Environmental Conservation as Designee of the Commissioner,

By: _____

Michael J. Ryan, P.E., Director
Division of Environmental Remediation

CONSENT BY APPLICANT

Applicant hereby consents to the issuing and entering of this Agreement, and agrees to be bound by this Agreement.

458 East 99th Street LLC

By: Warren Bell

Title: Managing Member

Date: 3/5/2020

STATE OF NEW YORK)
) ss:
COUNTY OF)

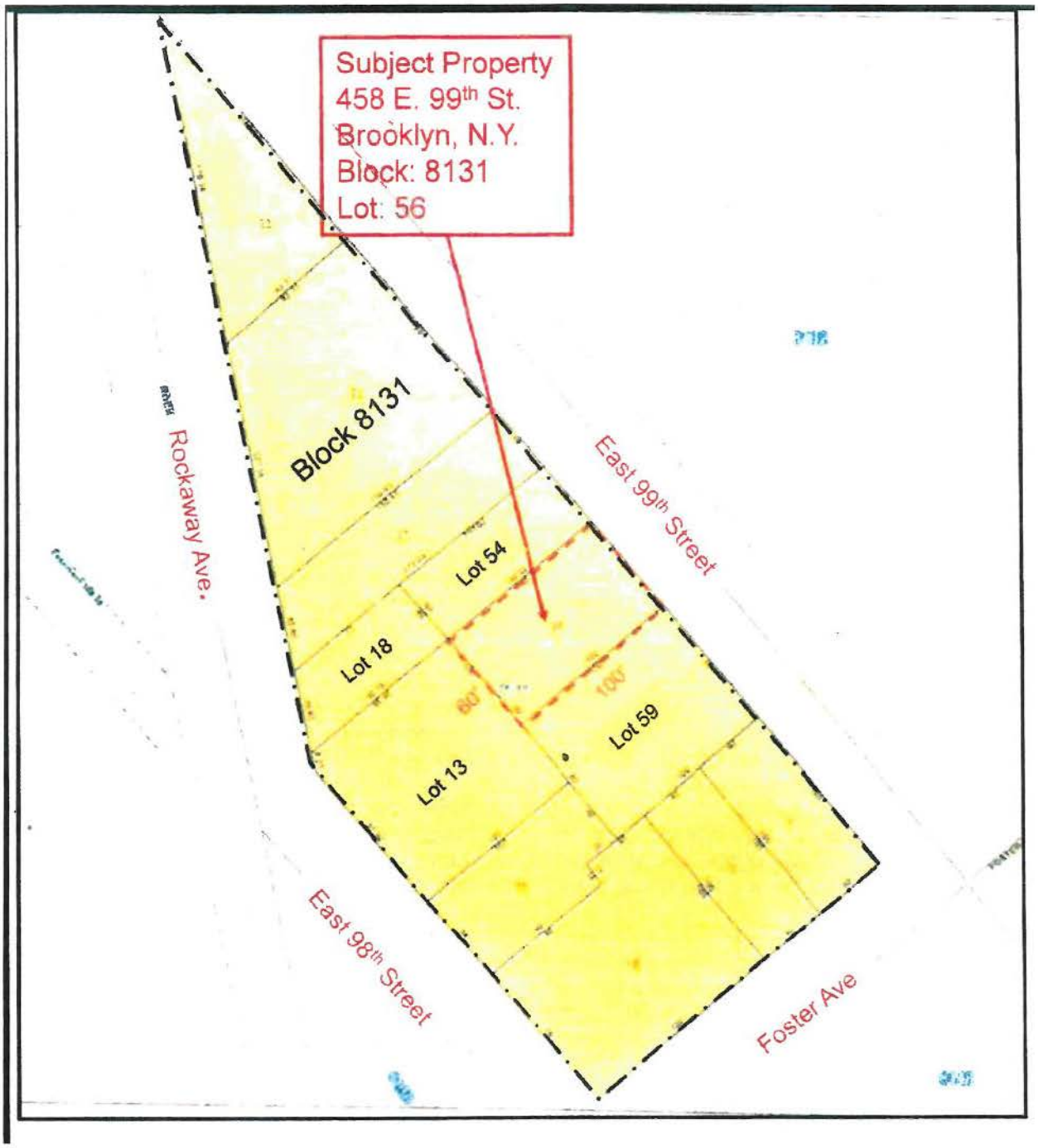
On the 5th day of March in the year 2020, before me, the undersigned, personally appeared Warren Bell, personally known to me or proved to me on the basis of satisfactory evidence to be the individual(s) whose name is (are) subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their capacity(ies), and that by his/her/their signature(s) on the instrument, the individual(s), or the person upon behalf of which the individual(s) acted, executed the instrument.

Karen Adler

Signature and Office of individual taking acknowledgment

KAREN ADLER
Notary Public, State of New York
No. 01AD4816314
Qualified in Suffolk County
Commission Expires April 30, 20 22

EXHIBIT A
SITE MAP



APPENDIX A

STANDARD CLAUSES FOR ALL NEW YORK STATE BROWNFIELD SITE CLEANUP AGREEMENTS

The parties to the Brownfield Site Cleanup Agreement (hereinafter "BCA" or "Agreement") agree to be bound by the following clauses which are hereby made a part of the BCA. The word "Applicant" herein refers to any party to the Agreement, other than the New York State Department of Environmental Conservation (herein after "Department").

I. Citizen Participation Plan

Within twenty (20) days after the effective date of this Agreement, Applicant shall submit for review and approval a written citizen participation plan prepared in accordance with the requirements of Environmental Conservation Law (ECL) § 27-1417 and 6 NYCRR §§ 375-1.10 and 375-3.10. Upon approval, the Citizen Participation Plan shall be deemed to be incorporated into and made a part of this Agreement.

II. Development, Performance, and Reporting of Work Plans

A. Work Plan Requirements

The work plans ("Work Plan" or "Work Plans") under this Agreement shall be prepared and implemented in accordance with the requirements of ECL Article 27, Title 14, 6 NYCRR §§ 375-1.6(a) and 375-3.6, and all applicable laws, rules, regulations, and guidance documents. The Work Plans shall be captioned as follows:

1. "Remedial Investigation Work Plan" if the Work Plan provides for the investigation of the nature and extent of contamination within the boundaries of the Site and, if the Applicant is a "Participant", the extent of contamination emanating from such Site. If the Applicant is a "Volunteer" it shall perform a qualitative exposure assessment of the contamination emanating from the Site in accordance with ECL § 27-1415(2)(b) and Department guidance;

2. "Remedial Work Plan" if the Work Plan provides for the development and implementation of a Remedial Program for contamination within the boundaries of the Site and, if the Applicant is a "Participant", the contamination that has emanated from such Site;

3. "IRM Work Plan" if the Work Plan provides for an interim remedial measure; or

4. "Site Management Plan" if the Work Plan provides for the identification and implementation of institutional and/or engineering controls as well as any necessary monitoring and/or operation and maintenance of the remedy.

5. "Supplemental" if additional work plans other than those set forth in II.A.1-4 are required to be prepared and implemented.

B. Submission/Implementation of Work Plans

1. The first proposed Work Plan to be submitted under this Agreement shall be submitted no later than thirty (30) days after the effective date of this Agreement. Thereafter, the Applicant shall submit such other and additional work plans as determined in a schedule to be approved by the Department.

2. Any proposed Work Plan shall be submitted for the Department's review and approval and shall include, at a minimum, a chronological description of the anticipated activities to be conducted in accordance with current guidance, a schedule for performance of those activities, and sufficient detail to allow the Department to evaluate that Work Plan. The Department shall use best efforts in accordance with 6 NYCRR § 375-3.6(b) to approve, modify, or reject a proposed Work Plan within forty-five (45) days from its receipt or within fifteen (15) days from the close of the comment period, if applicable, whichever is later.

i. Upon the Department's written approval of a Work Plan, such Department-approved Work Plan shall be deemed to be incorporated into and made a part of this Agreement and shall be implemented in accordance with the schedule contained therein. All work undertaken as part of a remedial program for a Site must be detailed in a department-approved Work Plan or a submittal approved in form and content by the Department.

ii. If the Department requires modification of a Work Plan, the reason for such modification shall be provided in writing and the

provisions of 6 NYCRR § 375-1.6(d)(3) shall apply.

iii. If the Department disapproves a Work Plan, the reason for such disapproval shall be provided in writing and the provisions of 6 NYCRR § 375-1.6(d)(4) shall apply.

3. A Site Management Plan, if necessary, shall be submitted in accordance with the schedule set forth in the IRM Work Plan or Remedial Work Plan.

C. Submission of Final Reports

1. In accordance with the schedule contained in an approved Work Plan, Applicant shall submit a Final Report for an Investigation Work Plan prepared in accordance with ECL § 27-1411(1) and 6 NYCRR § 375-1.6. If such Final Report concludes that no remediation is necessary, and the Site does not meet the requirements for Track 1, Applicant shall submit an Alternatives Analysis prepared in accordance with ECL § 27-1413 and 6 NYCRR § 375-3.8(f) that supports such determination.

2. In accordance with the schedule contained in an approved Work Plan, Applicant shall submit a Final Engineering Report certifying that remediation of the Site has been performed in accordance with the requirements of ECL §§ 27-1419(1) and (2) and 6 NYCRR § 375-1.6. The Department shall review such Report, the submittals made pursuant to this Agreement, and any other relevant information regarding the Site and make a determination as to whether the goals of the remedial program have been or will be achieved in accordance with established timeframes; if so, a written Certificate of Completion will be issued in accordance with ECL § 27-1419, 6 NYCRR §§ 375-1.9 and 375-3.9.

3. Within sixty (60) days of the Department's approval of a Final Report, Applicant shall submit such additional Work Plans as it proposes to implement. In addition, Applicant shall include with every report submitted to the Department a schedule for the submission of any subsequent work plan required to meet the requirements of ECL Article 27 Title 14. Failure to submit any additional Work Plans within such period shall, unless other Work Plans are under review by the Department or being implemented by Applicant, result in the termination of this Agreement pursuant to Paragraph XII.

D. Review of Submittals other than Work Plans

1. The Department shall timely notify Applicant in writing of its approval or disapproval of each submittal other than a Work Plan in accordance with 6 NYCRR § 375-1.6. All Department-approved submittals shall be incorporated into and become an enforceable part of this Agreement.

2. If the Department disapproves a submittal covered by this Subparagraph, it shall specify the reason for its disapproval and may request Applicant to modify or expand the submittal. Within fifteen (15) days after receiving written notice that Applicant's submittal has been disapproved, Applicant shall elect in writing to either (i) modify or expand it within thirty (30) days of receipt of the written notice of disapproval; (ii) complete any other Department-approved Work Plan(s); (iii) invoke dispute resolution pursuant to Paragraph XIII; or (iv) terminate this Agreement pursuant to Paragraph XII. If Applicant submits a revised submittal and it is disapproved, the Department and Applicant may pursue whatever remedies may be available under this Agreement or under law. All work undertaken as part of a remedial program, including work undertaken pursuant to submittals other than Work Plans, must be approved by the department prior to implementation by the Applicant.

E. Department's Determination of Need for Remediation

The Department shall determine upon its approval of each Final Report dealing with the investigation of the Site whether remediation, or additional remediation as the case may be, is needed for protection of public health and the environment.

1. If the Department makes a preliminary determination that remediation, or additional remediation, is not needed for protection of public health and the environment, the Department shall notify the public of such determination and seek public comment in accordance with ECL § 27-1417(3)(f). The Department shall provide timely notification to the Applicant of its final determination following the close of the public comment period.

2. If the Department determines that additional remediation is not needed and such determination is based upon use restrictions, Applicant shall cause to be recorded an Environmental Easement in accordance with 6 NYCRR § 375-1.8(h).

3. If the Department determines that remediation, or additional remediation, is needed, Applicant may elect to submit for review and approval a proposed Remedial Work Plan (or modify an existing Work Plan for the Site) for a remedy selected upon due consideration of the factors set forth in ECL § 27-1415(3) and 6 NYCRR § 375-1.8(f). A proposed Remedial Work Plan addressing the Site's remediation will be noticed for public comment in accordance with ECL § 27-1417(3)(f) and the Citizen Participation Plan developed pursuant to this Agreement. If the Department determines following the close of the public comment period that modifications to the proposed Remedial Work Plan are needed, Applicant agrees to negotiate appropriate modifications to such Work Plan. If Applicant elects not to develop a Work Plan under this Subparagraph then this Agreement shall terminate in accordance with Paragraph XII. If the Applicant elects to develop a Work Plan, then it will be reviewed in accordance with Paragraph II.D above.

F. Institutional/Engineering Control Certification

In the event that the remedy for the Site, if any, or any Work Plan for the Site, requires institutional or engineering controls, Applicant shall submit a written certification in accordance with 6 NYCRR §§ 375-1.8(h)(3) and 375-3.8(h)(2).

III. Enforcement

Except as provided in Paragraph V, this Agreement shall be enforceable as a contractual agreement under the laws of the State of New York. Applicant shall not suffer any penalty except as provided in Paragraph V, or be subject to any proceeding or action if it cannot comply with any requirement of this Agreement as a result of a Force Majeure Event as described at 6 NYCRR § 375-1.5(b)(4) provided Applicant complies with the requirements set forth therein.

IV. Entry upon Site

A. Applicant hereby agrees to provide access to the Site and to all relevant information regarding activities at the Site in accordance with the provisions of ECL § 27-1431. Applicant agrees to provide the Department upon request with proof of access if it is not the owner of the Site.

B. The Department shall have the right to periodically inspect the Site to ensure that the use of the property complies with the terms and conditions of this Agreement. The Department will generally conduct such inspections during business hours, but retains the right to inspect at any time.

C. Failure to provide access as provided for under this Paragraph may result in termination of this Agreement pursuant to Paragraph XII.

V. Payment of State Costs (Applicable only to Applicants with Participant Status)

A. Within forty-five (45) days after receipt of an itemized invoice from the Department, Applicant shall pay to the Department a sum of money which shall represent reimbursement for State Costs as provided by 6 NYCRR § 375-1.5 (b)(3)(i).

B. Costs shall be documented as provided by 6 NYCRR § 375-1.5(b)(3)(ii). The Department shall not be required to provide any other documentation of costs, provided however, that the Department's records shall be available consistent with, and in accordance with, Article 6 of the Public Officers Law.

C. Each such payment shall be made payable to the "Commissioner of NYSDEC" and shall be sent to:

Director, Bureau of Program Management
Division of Environmental Remediation
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7012

D. Each party shall provide written notification to the other within ninety (90) days of any change in the foregoing addresses.

E. If Applicant objects to any invoiced costs under this Agreement, the provisions of 6 NYCRR §§ 375-1.5 (b)(3)(v) and (vi) shall apply.

Objections shall be sent to the Department as provided under subparagraph V.C above.

F. In the event of non-payment of any invoice within the 45 days provided herein, the Department may seek enforcement of this provision pursuant to Paragraph III or the Department may commence an enforcement action for non-compliance with ECL § 27-1409(2) and ECL § 71-4003.

VI. Liability Limitation

Subsequent to the issuance of a Certificate of Completion pursuant to this Agreement, Applicant shall be entitled to the Liability Limitation set forth at ECL § 27-1421, subject to the terms and conditions stated therein and to the provisions of 6 NYCRR §§ 375-1.9 and 375-3.9.

VII. Reservation of Rights

A. Except as provided in Subparagraph VII.B, Applicant reserves all rights and defenses under applicable law to contest, defend against, dispute, or disprove any action, proceeding, allegation, assertion, determination, or order of the Department, including any assertion of remedial liability by the Department against Applicant, and further reserves all rights including the rights to notice, to be heard, to appeal, and to any other due process respecting any action or proceeding by the Department, including the enforcement of this Agreement. The existence of this Agreement or Applicant's compliance with it shall not be construed as an admission of any liability, fault, wrongdoing, or violation of law by Applicant, and shall not give rise to any presumption of law or finding of fact which shall inure to the benefit of any third party.

B. Notwithstanding the foregoing, Applicant hereby waives any right it may have to make a claim pursuant to Article 12 of the Navigation Law with respect to the Site and releases the State and the New York Environmental Protection and Spill Compensation Fund from any and all legal or equitable claims, suits, causes of action, or demands whatsoever with respect to the Site that Applicant may have as a result of Applicant's entering into or fulfilling the terms of this Agreement.

VIII. Indemnification

Applicant shall indemnify and hold the Department, the State of New York, and their representatives and employees harmless from any claim, suit, action, and cost of every name and description arising out of or resulting from the fulfillment or attempted fulfillment of this Agreement by Applicant prior to the Termination Date except for those claims, suits, actions, and costs arising from the State's gross negligence or willful or intentional misconduct by the Department, the State of New York, and/or their representatives and employees during the course of any activities conducted pursuant to this Agreement. In the event that the Applicant is a Participant, this provision shall also include the Trustee of the State's Natural Resources. The Department shall provide Applicant with written notice no less than thirty (30) days prior to commencing a lawsuit seeking indemnification pursuant to this Paragraph.

IX. Change of Use

Applicant shall notify the Department at least sixty (60) days in advance of any change of use, as defined in ECL § 27-1425, which is proposed for the Site, in accordance with the provisions of 6 NYCRR § 375-1.11(d). In the event the Department determines that the proposed change of use is prohibited, the Department shall notify Applicant of such determination within forty-five (45) days of receipt of such notice.

X. Environmental Easement

A. Within thirty (30) days after the Department's approval of a Remedial Work Plan which relies upon one or more institutional and/or engineering controls, or within sixty (60) days after the Department's determination pursuant to Subparagraph II.E.2 that additional remediation is not needed based upon use restrictions, Applicant shall submit to the Department for approval an Environmental Easement to run with the land in favor of the State which complies with the requirements of ECL Article 71, Title 36 and 6 NYCRR § 375-1.8(h)(2). Applicant shall cause such instrument to be recorded with the recording officer for the county in which the Site is located within thirty (30) days after the Department's approval of such instrument. Applicant shall provide the Department with a copy of such instrument certified by the recording officer to be a true and faithful copy within thirty (30) days of such recording (or such longer period of time as may be required to obtain a certified copy

provided Applicant advises the Department of the status of its efforts to obtain same within such thirty (30) day period), which shall be deemed to be incorporated into this Agreement.

B. Applicant or the owner of the Site may petition the Department to modify or extinguish the Environmental Easement filed pursuant to this Agreement at such time as it can certify that the Site is protective of public health and the environment without reliance upon the restrictions set forth in such instrument. Such certification shall be made by a Professional Engineer or Qualified Environmental Professional as defined at 6 NYCRR § 375-1.2(ak) approved by the Department. The Department will not unreasonably withhold its consent.

XI. Progress Reports

Applicant shall submit a written progress report of its actions under this Agreement to the parties identified in Subparagraph III.A.1 of the Agreement by the 10th day of each month commencing with the month subsequent to the approval of the first Work Plan and ending with the Termination Date, unless a different frequency is set forth in a Work Plan. Such reports shall, at a minimum, include: all actions relative to the Site during the previous reporting period and those anticipated for the next reporting period; all approved activity modifications (changes of work scope and/or schedule); all results of sampling and tests and all other data received or generated by or on behalf of Applicant in connection with this Site, whether under this Agreement or otherwise, in the previous reporting period, including quality assurance/quality control information; information regarding percentage of completion; unresolved delays encountered or anticipated that may affect the future schedule and efforts made to mitigate such delays; and information regarding activities undertaken in support of the Citizen Participation Plan during the previous reporting period and those anticipated for the next reporting period.

XII. Termination of Agreement

Applicant or the Department may terminate this Agreement consistent with the provisions of 6 NYCRR §§ 375-3.5(b), (c), and (d) by providing written notification to the parties listed in Paragraph IV of the Agreement.

XIII. Dispute Resolution

A. In the event disputes arise under this Agreement, Applicant may, within fifteen (15) days after Applicant knew or should have known of the facts which are the basis of the dispute, initiate dispute resolution in accordance with the provisions of 6 NYCRR § 375-1.5(b)(2).

B. All cost incurred by the Department associated with dispute resolution are State costs subject to reimbursement pursuant to Paragraph V of Appendix A of this Agreement, if applicable.

C. Notwithstanding any other rights otherwise authorized in law or equity, any disputes pursuant to this Agreement shall be limited to Departmental decisions on remedial activities. In no event shall such dispute authorize a challenge to the applicable statute or regulation.

XIV. Miscellaneous

A. If the information provided and any certifications made by Applicant are not materially accurate and complete, this Agreement, except with respect to Applicant's obligations pursuant to Paragraphs V, if applicable, and VII.B, and VIII, shall be null and void ab initio fifteen (15) days after the Department's notification of such inaccuracy or incompleteness or fifteen (15) days after issuance of a final decision resolving a dispute pursuant to Paragraph XIII, whichever is later, unless Applicant submits information within that fifteen (15) day time period indicating that the information provided and the certifications made were materially accurate and complete. In the event this Agreement is rendered null and void, any Certificate of Completion and/or Liability Limitation that may have been issued or may have arisen under this Agreement shall also be null and void ab initio, and the Department shall reserve all rights that it may have under law.

B. By entering into this Agreement, Applicant agrees to comply with and be bound by the provisions of 6 NYCRR §§ 375-1, 375-3 and 375-6; the provisions of such subparts that are referenced herein are referenced for clarity and convenience only and the failure of this Agreement to specifically reference any particular regulatory provision is not intended to imply that such provision is not applicable to activities performed under this Agreement.

C. The Department may exempt Applicant from the requirement to obtain any state or local

permit or other authorization for any activity conducted pursuant to this Agreement in accordance with 6 NYCRR §§ 375-1.12(b), (c), and (d).

D. 1. Applicant shall use "best efforts" to obtain all Site access, permits, easements, approvals, institutional controls, and/or authorizations necessary to perform Applicant's obligations under this Agreement, including all Department-approved Work Plans and the schedules contained therein. If, despite Applicant's best efforts, any access, permits, easements, approvals, institutional controls, or authorizations cannot be obtained, Applicant shall promptly notify the Department and include a summary of the steps taken. The Department may, as it deems appropriate and within its authority, assist Applicant in obtaining same.

2. If an interest in property is needed to implement an institutional control required by a Work Plan and such interest cannot be obtained, the Department may require Applicant to modify the Work Plan pursuant to 6 NYCRR § 375-1.6(d)(3) to reflect changes necessitated by Applicant's inability to obtain such interest.

E. The paragraph headings set forth in this Agreement are included for convenience of reference only and shall be disregarded in the construction and interpretation of any provisions of this Agreement.

F. 1. The terms of this Agreement shall constitute the complete and entire agreement between the Department and Applicant concerning the implementation of the activities required by this Agreement. No term, condition, understanding, or agreement purporting to modify or vary any term of this Agreement shall be binding unless made in writing and subscribed by the party to be bound. No informal advice, guidance, suggestion, or comment by the Department shall be construed as relieving Applicant of its obligation to obtain such formal approvals as may be required by this Agreement. In the event of a conflict between the terms of this Agreement and any Work Plan submitted pursuant to this Agreement, the terms of this Agreement shall control over the terms of the Work Plan(s). Applicant consents to and agrees not to contest the authority and jurisdiction of the Department to enter into or enforce this Agreement.

2. i. Except as set forth herein, if Applicant desires that any provision of this Agreement be changed, Applicant shall make timely written application to the Commissioner with copies to the parties in Subparagraph IV.A.1 of the Agreement.

ii. If Applicant seeks to modify an approved Work Plan, a written request shall be made to the Department's project manager, with copies to the parties listed in Subparagraph IV.A.1 of the Agreement.

iii. Requests for a change to a time frame set forth in this Agreement shall be made in writing to the Department's project attorney and project manager; such requests shall not be unreasonably denied and a written response to such requests shall be sent to Applicant promptly.

G. 1. If there are multiple parties signing this Agreement, the term "Applicant" shall be read in the plural, the obligations of each such party under this Agreement are joint and several, and the insolvency of or failure by any Applicant to implement any obligations under this Agreement shall not affect the obligations of the remaining Applicant(s) under this Agreement.

2. If Applicant is a partnership, the obligations of all general partners (including limited partners who act as general partners) under this Agreement are joint and several and the insolvency or failure of any general partner to implement any obligations under this Agreement shall not affect the obligations of the remaining partner(s) under this Agreement.

3. Notwithstanding the foregoing Subparagraphs XIV.G.1 and 2, if multiple parties sign this Agreement as Applicants but not all of the signing parties elect to implement a Work Plan, all Applicants are jointly and severally liable for each and every obligation under this Agreement through the completion of activities in such Work Plan that all such parties consented to; thereafter, only those Applicants electing to perform additional work shall be jointly and severally liable under this Agreement for the obligations and activities under such additional Work Plan(s). The parties electing not to implement the additional Work Plan(s) shall have no obligations under this Agreement relative to the activities set forth in such Work Plan(s). Further, only those Applicants electing to implement such additional Work Plan(s) shall be

eligible to receive the Liability Limitation referenced in Paragraph VI.

4. Any change to parties pursuant to this Agreement, including successors and assigns through acquisition of title, is subject to approval by the Department, after submittal of an application acceptable to the Department.

H. Applicant shall be entitled to receive contribution protection and/or to seek contribution to the extent authorized by ECL § 27-1421(6) and 6 NYCRR § 375-1.5(b)(5).

I. Applicant shall not be considered an operator of the Site solely by virtue of having executed and/or implemented this Agreement.

J. Applicant and Applicant's agents, grantees, lessees, sublessees, successors, and assigns shall be bound by this Agreement. Any change in ownership of Applicant including, but not limited to, any transfer of assets or real or personal property, shall in no way alter Applicant's responsibilities under this Agreement.

K. Unless otherwise expressly provided herein, terms used in this Agreement which are defined in ECL Article 27 or in regulations promulgated thereunder shall have the meaning assigned to them under said statute or regulations.

L. Applicant's obligations under this Agreement shall not be deemed to constitute any type of fine or penalty.

M. In accordance with 6 NYCRR § 375-1.6(a)(4), the Department shall be notified at least 7 days in advance of, and be allowed to attend, any field activities to be conducted under a Department approved work plan, as well as any pre-bid meetings, job progress meetings, substantial completion meeting and inspection, and final inspection and meeting; provided, however that the Department may be excluded from portions of meetings where privileged matters are discussed.

N. In accordance with 6 NYCRR § 375-1.11(a), all work plans; reports, including all attachments and appendices, and certifications, submitted by a remedial party shall be submitted in print, as well as in an electronic format acceptable to the Department.

O. This Agreement may be executed for the convenience of the parties hereto, individually or in combination, in one or more counterparts, each of which shall be deemed to have the status of an executed original and all of which shall together constitute one and the same.

DECISION DOCUMENT

458 East 99th Street
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224254
July 2023



Prepared by
Division of Environmental Remediation
New York State Department of Environmental Conservation

DECLARATION STATEMENT - DECISION DOCUMENT

458 East 99th Street
Brownfield Cleanup Program
Brooklyn, Kings County
Site No. C224254
July 2023

Statement of Purpose and Basis

This document presents the remedy for the 458 East 99th Street brownfield cleanup site. The remedial program was chosen in accordance with the New York State Environmental Conservation Law and Title 6 of the Official Compilation of Codes, Rules and Regulations of the State of New York (6 NYCRR) Part 375.

This decision is based on the Administrative Record of the New York State Department of Environmental Conservation (the Department) for the 458 East 99th Street site and the public's input to the proposed remedy presented by the Department.

Description of Selected Remedy

The elements of the selected remedy are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and sustainable re-development.
- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings will include, at

a minimum, a 20-mil vapor barrier/waterproofing membrane on the foundation to improve energy efficiency as an element of construction.

2. Soil Vapor Extraction (SVE)

Soil vapor extraction (SVE) will be implemented to remove volatile organic compounds (VOCs) from the subsurface and to prevent off-site migration of contaminated soil vapor. VOCs will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere.

One SVE well will be installed into the vadose zone and screened from ground surface to a depth of approximately 7 feet below ground surface. The air containing VOCs extracted from the SVE wells will be treated by passing the air stream through activated carbon which removes the VOCs from the air prior to it being discharged to the atmosphere.

3. Vapor Mitigation

Any on-site buildings will be required to have a sub-slab depressurization system, or other acceptable measures, to mitigate the migration of vapors into the building from the subsurface.

4. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require compliance with the Department approved SMP;
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g)(2)(iii), although land use is subject to local zoning laws;
- require the remedial party to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); and
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOHMH.

5. Site Management Plan

A Site Management Plan is required which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

Institutional Controls: The Environmental Easement discussed in Paragraph 4 above.
Engineering Controls: The SVE system discussed in Paragraph 2 and the vapor mitigation system discussed in Paragraph 3.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use, and

groundwater water use restrictions;

- provisions for the management and inspection of the identified engineering controls;
- a provision for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. The nature and extent of contamination in areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to a plan approved by the Department. Based on the investigation results and the Department determination of the need for a remedy, a Remedial Action Work Plan (RAWP) will be developed for the final remedy for the site, including removal and/or treatment of any source areas to the extent feasible. Citizen Participation Plan (CPP) activities will continue through this process. Any necessary remediation will be completed prior to, or in association with, redevelopment.
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- monitoring of soil, groundwater, soil vapor and/or indoor air to assess the performance and effectiveness of the remedy;
- a schedule of monitoring and frequency of submittals to the Department.

c. an Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:

- procedures for operating and maintaining the remedy;
- compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting,
- maintaining site access controls and Department notification; and
- providing the Department access to the site and O&M records.

The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

Declaration

The remedy conforms with promulgated standards and criteria that are directly applicable, or that are relevant and appropriate and takes into consideration Department guidance, as appropriate. The remedy is protective of public health and the environment.

July 14, 2023

Date

Jane H. O'Connell
Regional Remediation Engineer, Region 2

DECISION DOCUMENT

458 East 99th Street
Brooklyn, Kings County
Site No. C224254
July 2023

SECTION 1: SUMMARY AND PURPOSE

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health (NYSDOH), has selected a remedy for the above referenced site. The disposal of contaminants at the site has resulted in threats to public health and the environment that would be addressed by the remedy. The disposal or release of contaminants at this site, as more fully described in this document, has contaminated various environmental media. Contaminants include hazardous waste and/or petroleum.

The New York State Brownfield Cleanup Program (BCP) is a voluntary program. The goal of the BCP is to enhance private-sector cleanups of brownfields and to reduce development pressure on "greenfields." A brownfield site is real property, where a contaminant is present at levels exceeding the soil cleanup objectives or other health-based or environmental standards, criteria or guidance, based on the reasonably anticipated use of the property.

The Department has issued this document in accordance with the requirements of New York State Environmental Conservation Law and 6 NYCRR Part 375. This document is a summary of the information that can be found in the site-related reports and documents.

SECTION 2: CITIZEN PARTICIPATION

The Department seeks input from the community on all remedies. A public comment period was held, during which the public was encouraged to submit comment on the proposed remedy. All comments on the remedy received during the comment period were considered by the Department in selecting a remedy for the site. Site-related reports and documents were made available for review by the public at the following document repositories:

DECInfo Locator - Web Application
https://gisservices.dec.ny.gov/gis/dil/index.html?rs=C224254

Brooklyn Public Library
1580 Rockaway Parkway
Brooklyn, NY 11236
Phone: (718) 257-6547

Brooklyn Community Board 18
1097 Bergen Avenue
Brooklyn, NY 11234
Phone: (718) 241-0422

Receive Site Citizen Participation Information By Email

Please note that the Department's Division of Environmental Remediation (DER) is "going paperless" relative to citizen participation information. The ultimate goal is to distribute citizen participation information about contaminated sites electronically by way of county email listservs. Information will be distributed for all sites that are being investigated and cleaned up in a particular county under the State Superfund Program, Environmental Restoration Program, Brownfield Cleanup Program and Resource Conservation and Recovery Act Program. We encourage the public to sign up for one or more county listservs at http://www.dec.ny.gov/chemical/61092.html

SECTION 3: SITE DESCRIPTION AND HISTORY

Location:
The 458 East 99th Street site is located on the west side of East 99th Street between Foster Avenue and Rockaway Avenue in Brooklyn, NY. The site is bordered on the east by East 99th Street and by various commercial, industrial, and manufacturing businesses immediately to the west, south, and north.

Site Features:
The 0.14-acre site is currently developed with a one-story masonry and steel office/warehouse building with on-grade 4-inch concrete slab and a concrete alleyway and is used as a commercial woodworking shop.

Past Uses of the Site:
The site was undeveloped, vacant land until the existing one-story building was built in 1952. A variety of commercial and industrial operations, including a dry-cleaning warehousing operation were present from 1966 through 1973.

Current Zoning and Land Use:
The site is zoned El-Warehouse. The building is currently occupied by a wood working shop for assembling of cabinets, etc. There is no manufacturing conducted at the site.

Site Geology and Hydrology:
Beneath the slab, the lithology consists of fill (consisting of sand, gravel, brick, concrete) that was encountered from approximately 0.5 to 4 feet below ground surface (ft-bgs). Fill materials overlie native fine to coarse sand with some gravel and silt. Light to dark grey organic-rich silt was observed at several locations at depths of approximately 10 to 15 ft-bgs once the groundwater table was encountered. Based on site-specific sampling, the depth to groundwater is approximately 11 ft-bgs. The direction of groundwater flow is to the east towards Fresh Creek, which is located approximately 0.7 miles from the site.

A site location map is attached as Figure 1.

SECTION 4: LAND USE AND PHYSICAL SETTING

The Department may consider the current, intended, and reasonably anticipated future land use of the site and its surroundings when evaluating a remedy for soil remediation. For this site, alternatives (or an alternative) that restrict(s) the use of the site to commercial use (which allows for industrial use) as described in Part 375-1.8(g) were/was evaluated in addition to an alternative which would allow for unrestricted use of the site.

A comparison of the results of the Remedial Investigation (RI) to the appropriate standards, criteria and guidance values (SCGs) for the identified land use and the unrestricted use SCGs for the site contaminants is available in the RI Report.

SECTION 5: ENFORCEMENT STATUS

The Applicant under the Brownfield Cleanup Agreement is a Volunteer. The Volunteer does not have an obligation to address off-site contamination. The Department has determined that this site poses a significant threat to human health and the environment and there is the potential for off-site impacts that will require remedial activities; accordingly, enforcement action is necessary.

The Department will seek to identify any parties (other than the Volunteer) known or suspected to be responsible for contamination at or emanating from the site, referred to as Potentially Responsible Parties (PRPs). The Department will bring an enforcement action against the PRPs. If an enforcement action cannot be brought or does not result in the initiation of a remedial program by any PRPs, the Department will evaluate the off-site contamination for action under the State Superfund. The PRPs are subject to legal actions by the State for recovery of all response costs the State incurs or has incurred

SECTION 6: SITE CONTAMINATION

6.1: Summary of the Remedial Investigation

A remedial investigation (RI) serves as the mechanism for collecting data to:

- characterize site conditions;
- determine the nature of the contamination; and
- assess risk to human health and the environment.

The RI is intended to identify the nature (or type) of contamination which may be present at a site and the extent of that contamination in the environment on the site, or leaving the site. The RI reports on data gathered to determine if the soil, groundwater, soil vapor, indoor air, surface water or sediments may have been contaminated. Monitoring wells are installed to assess groundwater and soil borings or test pits are installed to sample soil and/or waste(s) identified. If

other natural resources are present, such as surface water bodies or wetlands, the water and sediment may be sampled as well. Based on the presence of contaminants in soil and groundwater, soil vapor will also be sampled for the presence of contamination. Data collected in the RI influence the development of remedial alternatives. The RI report is available for review in the site document repository and the results are summarized in section 6.3.

The analytical data collected on this site includes data for:

- groundwater
- soil
- sub-slab vapor

6.1.1: Standards, Criteria, and Guidance (SCGs)

The remedy must conform to promulgated standards and criteria that are directly applicable or that are relevant and appropriate. The selection of a remedy must also take into consideration guidance, as appropriate. Standards, Criteria and Guidance are hereafter called SCGs.

To determine whether the contaminants identified in various media are present at levels of concern, the data from the RI were compared to media-specific SCGs. The Department has developed SCGs for groundwater, surface water, sediments, and soil. The NYSDOH has developed SCGs for drinking water and soil vapor intrusion. For a full listing of all SCGs see: http://www.dec.ny.gov/regulations/61794.html

6.1.2: RI Results

The data have identified contaminants of concern. A "contaminant of concern" is a contaminant that is sufficiently present in frequency and concentration in the environment to require evaluation for remedial action. Not all contaminants identified on the property are contaminants of concern. The nature and extent of contamination and environmental media requiring action are summarized below. Additionally, the RI Report contains a full discussion of the data. The contaminants of concern identified at this site is/are:

tetrachloroethene (PCE)	1,1,1-trichloroethane
trichloroethene (TCE)	1,1-dichloroethane
cis-1,2-dichloroethene	chloroethane
vinyl chloride	

The contaminants of concern exceed the applicable SCGs for:

- groundwater
- soil
- soil vapor intrusion

6.2: Interim Remedial Measures

An interim remedial measure (IRM) is conducted at a site when a source of contamination or exposure pathway can be effectively addressed before issuance of the Decision Document.

There were no IRMs performed at this site during the RI.

6.3: Summary of Environmental Assessment

This section summarizes the assessment of existing and potential future environmental impacts presented by the site. Environmental impacts may include existing and potential future exposure pathways to fish and wildlife receptors, wetlands, groundwater resources, and surface water. The RI report presents a detailed discussion of any existing and potential impacts from the site to fish and wildlife receptors.

Nature and Extent of Contamination:
Soil and groundwater were analyzed for volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), metals, polychlorinated biphenyls (PCBs), per- and polyfluoroalkyl substances (PFAS), and pesticides. Soil vapor samples were analyzed for VOCs. Based upon investigations conducted to date, the primary contaminants of concern are chlorinated solvents, specifically tetrachloroethene (PCE) and its breakdown products.

Soil - Three soil borings advanced to a depth of 25 feet below ground surface (ft-bgs) identified one VOC detection specifically PCE at a concentration of 18 parts per million (ppm) which exceeds the Protection of Groundwater Soil Cleanup Objectives (PGWSCO) of 1.3 ppm but does not exceed the Commercial Use Soil Cleanup Objective (CUSCO) of 150 ppm. There were no exceedances of CUSCOs for SVOCs, metals, pesticides, PCBs or PFAS in soil. Data does not indicate any off-site impacts in soil related to the site.

Groundwater - PCE exceeded the NYSDEC Ambient Water Quality Standards and Guidance Values (AWQSGV) at a maximum concentration of 11 parts per billion (ppb) in the shallow groundwater interface between 5-15 ft-bgs and up to 10 ppb in the deep groundwater between 20-25 ft-bgs. Trichloroethene (TCE) was detected in the shallow zone at a concentration of 13 ppb and in the deep zone at a maximum concentration of 59 ppb. Cis-1,2-dichloroethene and vinyl chloride were detected at maximum concentrations of 32 ppb and 23 ppb, respectively, in shallow groundwater at 340 ppb and 180 ppb, respectively, in the deep zone. There were also AWQSGV exceedances of 1,1,1-trichloroethane (62 ppb), 1,1-dichloroethane (370 ppb), 1,2-dichloroethane (1.6 ppb) and chloroethane (310 ppb) in the deep zone at the upgradient southwestern perimeter of the site. Concentrations were lower downgradient of this location in the south-eastern perimeter of the site. The AWQSGV for each of these VOCs is 5 ppb, except vinyl chloride which is 2 ppb.

No SVOCs exceeded the AWQS. Metal exceedances of AWQS included iron, manganese, and sodium - all of which are considered naturally occurring and are not site-specific contaminants of concern. The PFAS compounds perfluorooctanoic acid (PFOA) and perfluorooctanesulfonic

acid (PFOS) were found at maximum concentrations of 113 parts per trillion (ppt) and 13 ppt compared to their respective AWQSGV of 6.7 ppt and 2.7 ppt.

Data does not indicate any off-site impacts in groundwater related to the site.

Sub-slab Vapor and Indoor Air - PCE was the dominant contaminant detected in sub-slab vapor at elevated concentrations up to 16,000 micrograms per cubic meter ($\mu g/m^3$) and was found in indoor air at a maximum concentration of 3.9 $\mu g/m^3$. TCE was detected in sub-slab soil vapor at a maximum concentration of 440 $\mu g/m^3$ but was not detected in air.

Data indicates the potential for off-site impacts in soil vapor related to the site.

6.4: Summary of Human Exposure Pathways

This human exposure assessment identifies ways in which people may be exposed to site-related contaminants. Chemicals can enter the body through three major pathways (breathing, touching or swallowing). This is referred to as *exposure.*

Since the site is covered by the building and asphalt or concrete people will not come into contact with site-related soil and groundwater contamination unless they dig below the surface. People are not drinking the contaminated groundwater because the area is served by a public water supply that is not affected by site contamination. Volatile organic compounds in soil vapor (air spaces within the soil) may move into buildings and affect the indoor air quality. This process, which is similar to the movement of radon gas from the subsurface into the indoor air of buildings, is referred to as soil vapor intrusion. Soil vapor intrusion sampling identified impacts in on-site indoor air quality. Additionally, environmental sampling indicates that soil vapor intrusion may be a concern off-site.

6.5: Summary of the Remediation Objectives

The objectives for the remedial program have been established through the remedy selection process stated in 6 NYCRR Part 375. The goal for the remedial program is to restore the site to pre-disposal conditions to the extent feasible. At a minimum, the remedy shall eliminate or mitigate all significant threats to public health and the environment presented by the contamination identified at the site through the proper application of scientific and engineering principles.

The remedial action objectives for this site are:

Groundwater

RAOs for Public Health Protection

- Prevent ingestion of groundwater with contaminant levels exceeding drinking water standards.
- Prevent contact with, or inhalation of volatiles, from contaminated groundwater.

RAOs for Environmental Protection

- Remove the source of ground or surface water contamination.

Soil

RAOs for Public Health Protection

- Prevent ingestion/direct contact with contaminated soil.
- Prevent inhalation of or exposure from contaminants volatilizing from contaminants in soil.

RAOs for Environmental Protection

- Prevent migration of contaminants that would result in groundwater or surface water contamination.

Soil Vapor

RAOs for Public Health Protection

- Mitigate impacts to public health resulting from existing, or the potential for, soil vapor intrusion into buildings at a site.

SECTION 7: ELEMENTS OF THE SELECTED REMEDY

The alternatives developed for the site and the evaluation of the remedial criteria are presented in the Alternative Analysis. The remedy is selected pursuant to the remedy selection criteria set forth in DER-10, Technical Guidance for Site Investigation and Remediation and 6 NYCRR Part 375.

The selected remedy is a Track 2: Restricted use with generic soil cleanup objectives remedy.

The selected remedy is referred to as the Soil Vapor Extraction and Soil Vapor Mitigation remedy.

The elements of the selected remedy, as shown in Figure 2, are as follows:

1. Remedial Design

A remedial design program will be implemented to provide the details necessary for the construction, operation, optimization, maintenance, and monitoring of the remedial program. Green remediation principles and techniques will be implemented to the extent feasible in the design, implementation, and site management of the remedy as per DER-31. The major green remediation components are as follows;

- Considering the environmental impacts of treatment technologies and remedy stewardship over the long term;
- Reducing direct and indirect greenhouse gases and other emissions;
- Increasing energy efficiency and minimizing use of non-renewable energy;
- Conserving and efficiently managing resources and materials;
- Reducing waste, increasing recycling and increasing reuse of materials which would otherwise be considered a waste;
- Maximizing habitat value and creating habitat when possible;
- Fostering green and healthy communities and working landscapes which balance ecological, economic and social goals; and
- Integrating the remedy with the end use where possible and encouraging green and

sustainable re-development.

- Additionally, to incorporate green remediation principles and techniques to the extent feasible in the future development at this site, any future on-site buildings will include, at a minimum, a 20-mil vapor barrier/waterproofing membrane on the foundation to improve energy efficiency as an element of construction.

2. Soil Vapor Extraction (SVE)

Soil vapor extraction (SVE) will be implemented to remove volatile organic compounds (VOCs) from the subsurface and to prevent off-site migration of contaminated soil vapor. VOCs will be physically removed from the soil by applying a vacuum to wells that have been installed into the vadose zone (the area below the ground but above the water table). The vacuum draws air through the soil matrix which carries the VOCs from the soil to the SVE well. The air extracted from the SVE wells is then treated as necessary prior to being discharged to the atmosphere.

One SVE well will be installed into the vadose zone and screened from ground surface to a depth of approximately 7 feet below ground surface. The air containing VOCs extracted from the SVE wells will be treated by passing the air stream through activated carbon which removes the VOCs from the air prior to it being discharged to the atmosphere.

3. Vapor Mitigation

Any on-site buildings will be required to have a sub-slab depressurization system, or other acceptable measures, to mitigate the migration of vapors into the building from the subsurface.

4. Institutional Control

Imposition of an institutional control in the form of an environmental easement for the controlled property which will:

- require compliance with the Department approved SMP;
- allow the use and development of the controlled property for commercial use as defined by Part 375-1.8(g)(2)(iii), although land use is subject to local zoning laws;
- require the remedial party to complete and submit to the Department a periodic certification of institutional and engineering controls in accordance with Part 375-1.8 (h)(3); and
- restrict the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by the NYSDOH or NYCDOHMH.

5. Site Management Plan

A Site Management Plan is required which includes the following:

a. an Institutional and Engineering Control Plan that identifies all use restrictions and engineering controls for the site and details the steps and media-specific requirements necessary to ensure the following institutional and/or engineering controls remain in place and effective:

- Institutional Controls: The Environmental Easement discussed in Paragraph 4 above.
- Engineering Controls: The SVE system discussed in Paragraph 2 and the vapor mitigation system discussed in Paragraph 3.

This plan includes, but may not be limited to:

- an Excavation Plan which details the provisions for management of future excavations in areas of remaining contamination;
- descriptions of the provisions of the environmental easement including any land use, and groundwater water use restrictions;
- provisions for the management and inspection of the identified engineering controls;
- a provision for further investigation and remediation should large scale redevelopment occur, if any of the existing structures are demolished, or if the subsurface is otherwise made accessible. The nature and extent of contamination in areas where access was previously limited or unavailable will be immediately and thoroughly investigated pursuant to a plan approved by the Department. Based on the investigation results and the Department determination of the need for a remedy, a Remedial Action Work Plan (RAWP) will be developed for the final remedy for the site, including removal and/or treatment of any source areas to the extent feasible. Citizen Participation Plan (CPP) activities will continue through this process. Any necessary remediation will be completed prior to, or in association with, redevelopment.
- maintaining site access controls and Department notification; and
- the steps necessary for the periodic reviews and certification of the institutional and/or engineering controls.

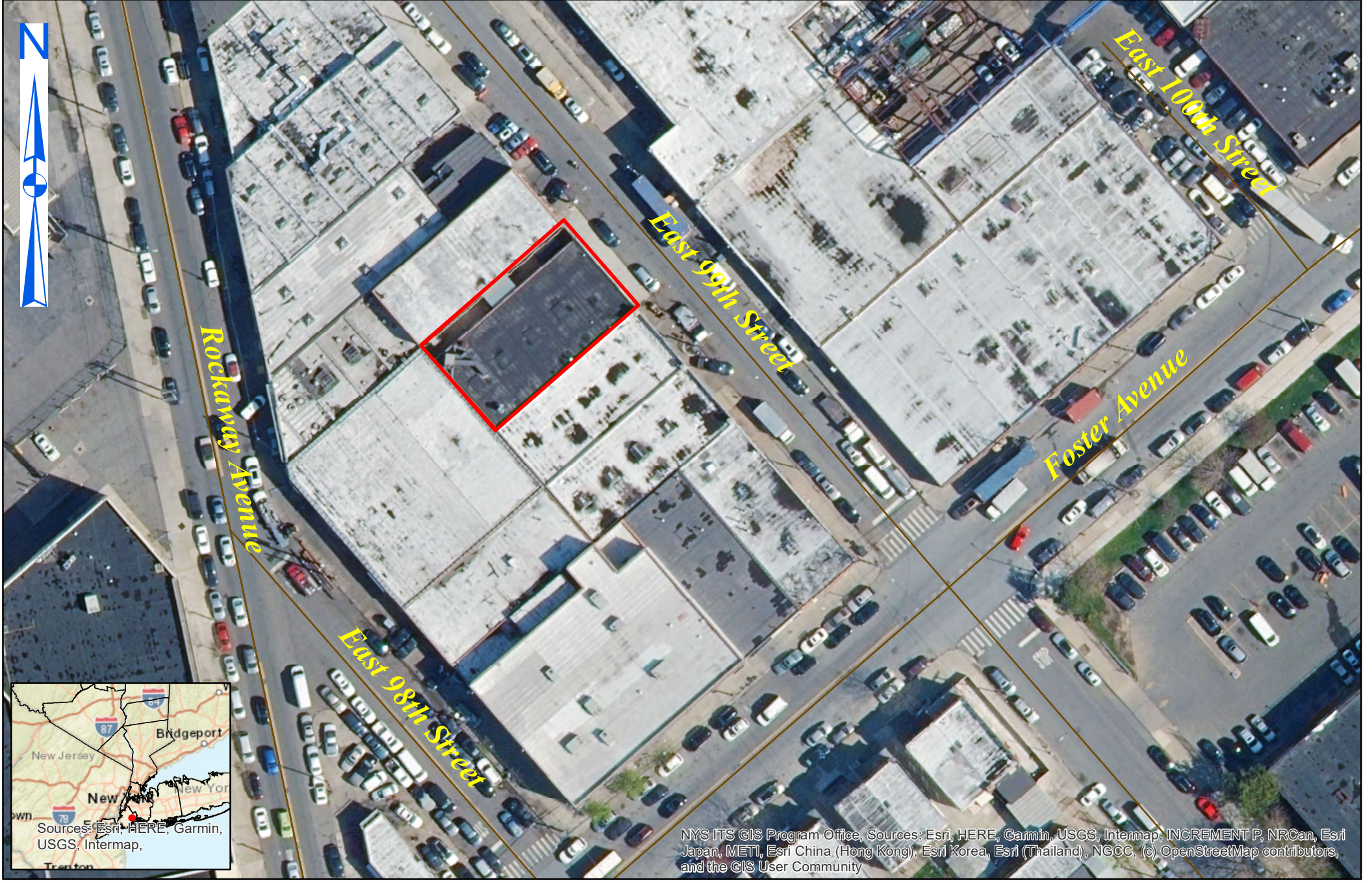
b. a Monitoring Plan to assess the performance and effectiveness of the remedy. The plan includes, but may not be limited to:

- monitoring of soil, groundwater, soil vapor and/or indoor air to assess the performance and effectiveness of the remedy;
- a schedule of monitoring and frequency of submittals to the Department.

c. an Operation and Maintenance (O&M) Plan to ensure continued operation, maintenance, optimization, monitoring, inspection, and reporting of any mechanical or physical components of the remedy. The plan includes, but is not limited to:

- procedures for operating and maintaining the remedy;
- compliance monitoring of treatment systems to ensure proper O&M as well as providing the data for any necessary permit or permit equivalent reporting,
- maintaining site access controls and Department notification; and
- providing the Department access to the site and O&M records.

The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.



NEW YORK STATE | Department of Environmental Conservation

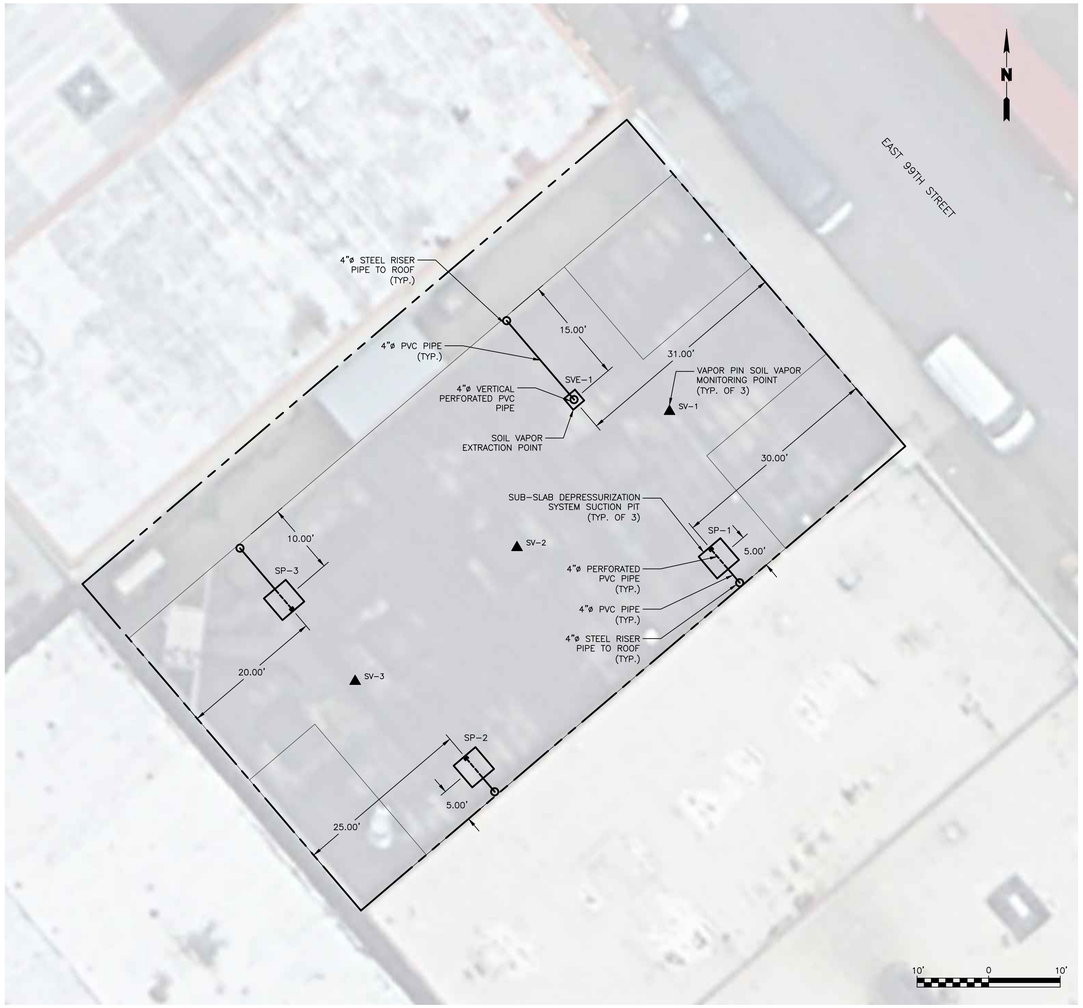
Figure 1 - Site Location Map
458 East 99th Street
Site No. C224254

Legend

Remediation Site Borders

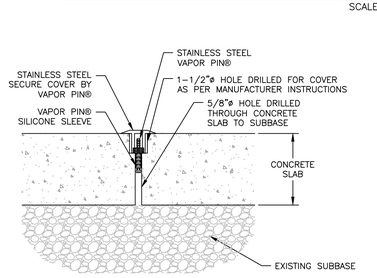
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Feet



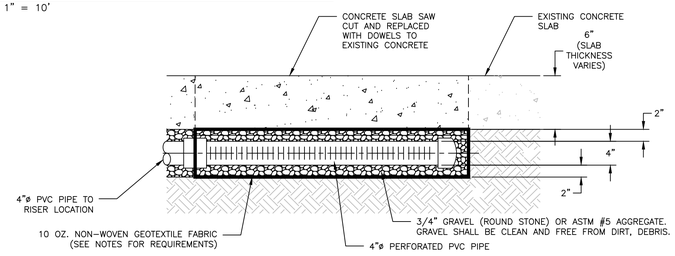
SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM PLAN

SCALE: 1" = 10'

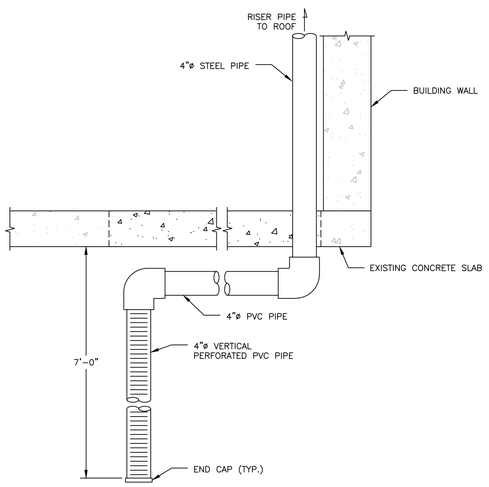


1 TYPICAL SOIL VAPOR MONITORING POINT DETAIL

SCALE: N.T.S.



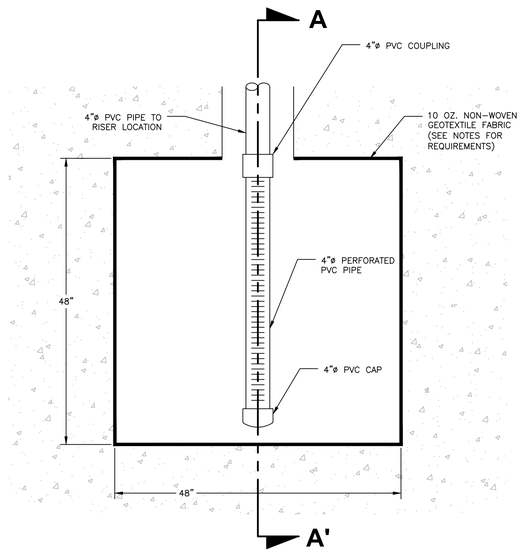
PROFILE VIEW A-A'



PROFILE VIEW

4 SOIL VAPOR EXTRACTION POINT DETAIL

SCALE: N.T.S.



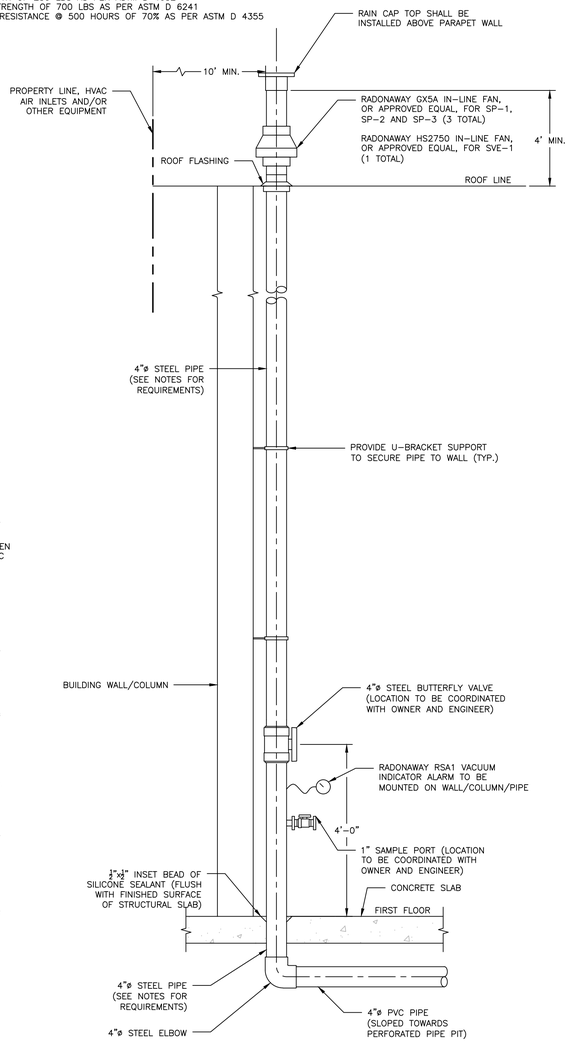
PLAN VIEW

2 SUB-SLAB DEPRESSURIZATION SYSTEM SUCTION PIT DETAIL

SCALE: N.T.S.

SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM NOTES

1. CONTRACTOR SHALL COORDINATE INSTALLATION OF SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM (SVES/SSDS) WITH EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO: EXISTING EQUIPMENT, ELECTRICAL SYSTEMS AND UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY THE DESIGN INVERT ELEVATIONS (BOTTOM OF PIPING) FOR PENETRATIONS. THE CONTRACTOR SHALL ALSO FIELD VERIFY THE HORIZONTAL OFFSETS FOR THE LOCATIONS OF THE VERTICAL RISERS.
3. ALL SVES/SSDS PIPING SHALL BE SLOPED TOWARDS THE PERFORATED PIPE SUCTION PITS TO PREVENT ANY POTENTIAL MOISTURE BUILD UP AND BLOCKAGES.
4. ALL ABOVE GRADE SVES/SSDS PIPING (ALONG WITH FITTINGS AND APPURTENANCES) SHALL CONSIST OF GALVANIZED STEEL, CAST-IRON, OR DUCTILE IRON PIPE AND INSTALLED IN ACCORDANCE WITH THE NYC PLUMBING CODE CHAPTERS 7 AND 9 FOR VENT PIPE.
5. PVC PIPE SHALL BE JOINED TOGETHER USING EITHER SOLVENTS, SLIP-JOINTS SECURED WITH SELF-TAPPING SCREWS OR THREADED CONNECTIONS.
6. ALL PENETRATIONS THROUGH THE FLOOR SHALL BE SEALED USING A SILICONE BASED WATERPROOF SEALANT OR EQUIVALENT.
7. THE BUILDING CONCRETE SLAB WILL BE RESTORED IN THE AREAS OF SVES/SSDS INSTALLATION AND IMPERFECTIONS/INCONSISTENCIES IN THE SLAB WILL BE SEALED AS PART OF THE SVES/SSDS INSTALLATION.
9. EACH SSDS SUCTION PIT SHALL BE INSTALLED WITH A RADONAWAY GX5A IN-LINE FAN, VALVE AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
10. THE SVES POINT SHALL BE INSTALLED WITH A RADONAWAY HS2750 IN-LINE FAN, VALVE AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
11. THE SURFACES TO BE LINED WITH GEOTEXTILE SHALL BE FREE OF ALL ROCKS, STONES, SHARP OBJECTS OR CONSTRUCTION DEBRIS OF ANY KIND.
12. INSTALL GEOTEXTILE NONWOVEN FABRIC DIRECTLY ON FILL. MATERIAL OVERLAPS SHALL BE A MINIMUM OF 12" AND THE OVERLAPPED SEAMS WILL BE SEALED WITH TAPE.
13. NON-WOVEN GEOTEXTILE SHALL MEET OR EXCEED FOLLOWING PROPERTY VALUES:
    - 13.1. MINIMUM MASS PER UNIT AREA OF 10 OZ/YD^2 AS PER ASTM D 5261
    - 13.2. MINIMUM GRAB STRENGTH OF 250 LBS AS PER ASTM D 4632
    - 13.3. MINIMUM PUNCTURE STRENGTH OF 700 LBS AS PER ASTM D 6241
    - 13.4. MINIMUM ULTRAVIOLET RESISTANCE @ 500 HOURS OF 70% AS PER ASTM D 4355



3 RISER DETAIL

SCALE: N.T.S.

NO.	DATE	REVISION DESCRIPTION	INT.

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OFFICE:	NY	PAPER SIZE:	ARCH D
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ROUX
Roux Environmental Engineering and Geology, D.P.C.
209 SHAFTER STREET ISLANDIA NEW YORK 11749
(631) 232-2600

PROJECT NAME:
458 EAST 99TH STREET
BROOKLYN, NY 11236

PROJECT FOR:
458 EAST 99TH STREET LLC

TITLE:
REMEDIAL ALTERNATIVE 2:
TRACK 2 COMMERCIAL USE
VIA SVES/SSDS

FIGURE NO.
2

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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

August 31, 2021

Warren Bell
458 East 99th Street LLC
3333 Royal Avenue
Oceanside, NY 11572

Re: 458 East 99th Street Site
Brownfield Cleanup Program Site No. C224254
Remedial Investigation Work Plan

Dear Mr. Bell:

The New York State Department of Environmental Conservation (the Department),in consultation with the New York State Department of Health, has completed its review of the Remedial Investigation Work Plan (the Plan) dated August 27, 2021, which was prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of 458 East 99th Street LLC (the Volunteer). The Plan was submitted to NYSDEC under the Brownfield Cleanup Program for project number C224254. The Department has determined that the Plan is in compliance with DER-10 and it is hereby approved.

The Volunteer and its contractors are solely responsible for the safe execution of all invasive and other field work performed under the Plan. The Volunteer and its contractors must obtain all local, state, and/or federal permits or approvals that may be required to perform work under the Plan. Further, the Volunteer and its contractors are solely responsible for the identification of utilities that might be affected by work under the Plan and, the implementation of all required, appropriate, or necessary health and safety measures during performance of work under the Plan.

In accordance with the requirements of the Brownfield Cleanup Agreement, please place a copy of the approved Plan in the document repositories and provide certification that the repositories have been populated with all relevant site-related documents. Please notify the Department at least 5 days prior to commencing field work related to the Plan.

If you have any questions regarding this letter, please contact me at (718) 482-4096 or at shaun.bollers@dec.ny.gov.

Sincerely,

Nicholas S. Bollers

Nicholas S. Bollers
Assistant Environmental Engineer

ec: J. O'Connell, M. Yau, J. Simpson – NYSDEC
S. McLaughlin, R. Ockerby, S. Rushford – NYSDOH
J. Duminuco, N. Clarke, L. Curnutte– Roux
W. Michelitsch – Euro Woodworking, Inc. (Volunteer's Representative)
Aaron Gershonowitz, Brian Kennedy – Forchelli Deegan Terrana LLP

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Division of Environmental Remediation, Region 2
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4995
www.dec.ny.gov

July 14, 2023

Wolfgang Michelitsch
458 East Owners LLC
458 East 99th Street
Brooklyn, NY 11236

Re: 458 East 99th Street
Site ID No. C224254
Remedial Action Work Plan and Decision Document

Dear Mr. Michelitsch:

The New York State Department of Environmental Conservation (the Department), in consultation with the New York State Department of Health, has completed its review of the Remedial Action Work Plan (RAWP) for the 458 East 99th Street site dated June 2023 which was prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of 458 East Owners LLC (the Volunteer). The RAWP is hereby approved. Please ensure that copies of the approved RAWP are placed in the document repository. The draft documents should be removed from the repository.

Attached is a copy of the Department's Decision Document for the site. The remedy is to be implemented in accordance with this Decision Document. Please ensure that a copy of the Decision Document is placed in the document repository.

Please contact the Department's Project Manager, Shaun Bollers, at (718) 482-4096 or shaun.bollers@dec.ny.gov at your earliest convenience to discuss next steps. Please recall the Department requires seven days' notice prior to the start of field work.

Sincerely,

Jane H. O'Connell

Jane H. O'Connell, P.G.
Regional Remediation Engineer, Region 2

Enclosure

ec: A. Obligado, S. Bollers, A. Pereira – NYSDEC
S. McLaughlin, S. Rushford – NYSDOH
N. Clarke, J. Duminuco, L. Curnutte – Roux
M. Bogin – Sive, Paget & Riesel P.C.

From:	Bollers, Shaun (DEC)
To:	Levi Curnutte
Cc:	EUROWOODWORKING@AOL.COM; Burke, Gerard (DEC); Maycock, Cris-Sandra (DEC); Yau, Mandy (DEC); McLaughlin, Scarlett E (HEALTH); Ockerby, Renata E (HEALTH); Rushford, Sally (HEALTH); Noelle Clarke; Simpson, James L (DEC); Info@bialy.com; O"Connell, Jane H (DEC)
Subject:	RE: 458 East 99th Street (C224254) - Opportunity to Cure
Date:	Thursday, September 8, 2022 8:18:25 AM
Attachments:	image001.png image002.png image003.png image004.png image005.png image006.png image007.png image011.png

This message originated outside your organization. Please use caution!

Levi:
The Department is satisfied with the arrangement made to proceed with the completion of the RIR and RAWP documents. Therefore, the verbal approval to extend the deadline to submit these draft documents to November 15, 2022, is hereby confirmed.

Regards,

Shaun
Shaun Bollers
Assistant Environmental Engineer, Division of Environmental Remediation
New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4096 | F: (718) 482-6358 | shaun.bollers@dec.ny.gov

www.dec.ny.gov | |

From: Levi Curnutte <lcurnutte@rouxinc.com>
Sent: Tuesday, September 6, 2022 4:58 PM
To: Simpson, James L (DEC) <James.Simpson@dec.ny.gov>; Info@bialy.com; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: EUROWOODWORKING@AOL.COM; Burke, Gerard (DEC) <gerard.burke@dec.ny.gov>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; Yau, Mandy (DEC) <Mandy.Yau@dec.ny.gov>; Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Rushford, Sally (HEALTH) <Sally.Rushford@health.ny.gov>; Noelle Clarke <nclarke@rouxinc.com>
Subject: RE: 458 East 99th Street (C224254) - Opportunity to Cure

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Jane,
Thanks to you and the Department for meeting with us on Thursday, September 1 to discuss this site. As discussed, attached is the response letter to inform that Roux is continuing to support this site and the formal request to extend the deadline for submission of the draft RIR/RAWP to 11/15/22.

Thanks again,
Levi

Levi Curnutte | Senior Scientist
209 Shafter Street, Islandia, NY 11749
Main: 631.232.2600 | Direct: 631.630.2371 | Mobile: 727.743.0304
Email: Lcurnutte@rouxinc.com | Website: www.rouxinc.com

From: Simpson, James L (DEC) <James.Simpson@dec.ny.gov>
Sent: Tuesday, August 2, 2022 1:02 PM
To: Info@bialy.com; O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: EUROWOODWORKING@AOL.COM; Burke, Gerard (DEC) <gerard.burke@dec.ny.gov>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; Yau, Mandy (DEC) <Mandy.Yau@dec.ny.gov>; Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Rushford, Sally (HEALTH) <Sally.Rushford@health.ny.gov>; Noelle Clarke <nclarke@rouxinc.com>; Levi Curnutte <lcurnutte@rouxinc.com>; AGERSHONOWITZ@ForchelliLaw.com; bkennedy@forchellilaw.com
Subject: RE: 458 East 99th Street (C224254) - Opportunity to Cure

This message originated outside your organization. Please use caution!

Mr. Bell:

Please note you signed a Brownfield Cleanup Agreement with the Department, and are therefore bound to the requirements of it. Per the letter sent today, should the Department not receive the RIR/RAWP within the stated time frame, the Department will terminate the Brownfield Cleanup Agreement and the site will no longer be in the Brownfield Cleanup Program.

Importantly, and as the letter states, termination of the Brownfield Cleanup Agreement would not relieve your obligation to pay any State costs incurred up until the date of termination, among other obligations.

Please let me know if you have any questions.

Regards,

James L. Simpson
(he/him/his)
Assistant Counsel, Office of General Counsel

New York State Department of Environmental Conservation
47-40 21st Street, Long Island City, NY 11101
P: (718) 482-4967 | F: (718) 482-4962 | James.Simpson@dec.ny.gov
www.dec.ny.gov | | |



From: Info@bialy.com <info@bialy.com>
Sent: Tuesday, August 2, 2022 10:17 AM
To: O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov>
Cc: EUROWOODWORKING@AOL.COM; Burke, Gerard (DEC) <gerard.burke@dec.ny.gov>; Maycock, Cris-Sandra (DEC) <cris-sandra.maycock@dec.ny.gov>; Yau, Mandy (DEC) <Mandy.Yau@dec.ny.gov>; Bollers, Shaun (DEC) <shaun.bollers@dec.ny.gov>; Simpson, James L (DEC) <James.Simpson@dec.ny.gov>; McLaughlin, Scarlett E (HEALTH) <scarlett.mclaughlin@health.ny.gov>; Ockerby, Renata E (HEALTH) <renata.ockerby@health.ny.gov>; Rushford, Sally (HEALTH) <Sally.Rushford@health.ny.gov>; Clarke, Noelle <nclarke@rouxinc.com>; Levi Curnutte <lcurnutte@rouxinc.com>; AGERSHONOWITZ@ForchelliLaw.com; bkennedy@forchellilaw.com
Subject: Re: 458 East 99th Street (C224254) - Opportunity to Cure

ATTENTION: This email came from an external source. Do not open attachments or click on links from unknown senders or unexpected emails.

Hi Jane,

I am no longer involved in this; it is the responsibility of Wolfgang. I am not responsible for the payments as Wolfgang's bank was holding the money and they are in control of it. Based on the proposal from Roux all the remaining money in the account would cover the remediation costs therefore I have no part in this anymore since there will be no more money left over after.
Thank you for your understanding.

Warren Bell

President- Bagels by Bell LTD
3333 Royal Ave, Oceanside, NY, 11572
T: 718-272-2780
Info@bialy.com
Facebook | Instagram | Website

On Tue, Aug 2, 2022 at 10:10 AM O'Connell, Jane H (DEC) <jane.oconnell@dec.ny.gov> wrote:

> This email copies you on correspondence from the New York State Department of Environmental Conservation, Division of Environmental Remediation. A hard copy will not follow in the mail. Please contact me if you experience problems with this transmission.
>
> **Jane H. O'Connell, P.G.**
> Regional Remediation Engineer, Division of Environmental Remediation
>
> **New York State Department of Environmental Conservation**
> 47-40 21st Street, Long Island City, NY 11101
> P: (718) 482-4599 | F: (718) 482-6358 | M: (917) 817-1845 | jane.oconnell@dec.ny.gov
> www.dec.ny.gov |
>
> NEW YORK STATE | Department of Environmental Conservation

APPENDIX C

Daily Progress Reports

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 29, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	65-80°F, Sunny, RH: 73%, P: 30.03" Wind: NW @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Saw cutter, Jackhammer • Dig bar, shovels, power tools, hand tools • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: First day of SSDS/SVES installation activities, conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT completed saw-cutting at SVE-1, SP-1, SP-2, and SP-3.
- SP-1 location was relocated approximately 3 feet to the southwest, in line with the original location, due to conflict with conduit running above the previously proposed location along the adjacent wall.
- Water and a vacuum were used to suppress dust during saw-cutting removal at each location. Dust was not observed migrating from the work areas.

Sampling performed:

- None

Material Delivered To Site:

- SSDS/SVES piping/material

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Remove sawcut concrete slab and continue installation of SSDS/SVES.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 29, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	65-80°F, Sunny, RH: 73%, P: 30.03" Wind: NW @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of sawcutting at SVE-1.



Photo 2: View of sawcutting at SP-1.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 29, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM



Photo 3: View of sawcutting at SP-2.



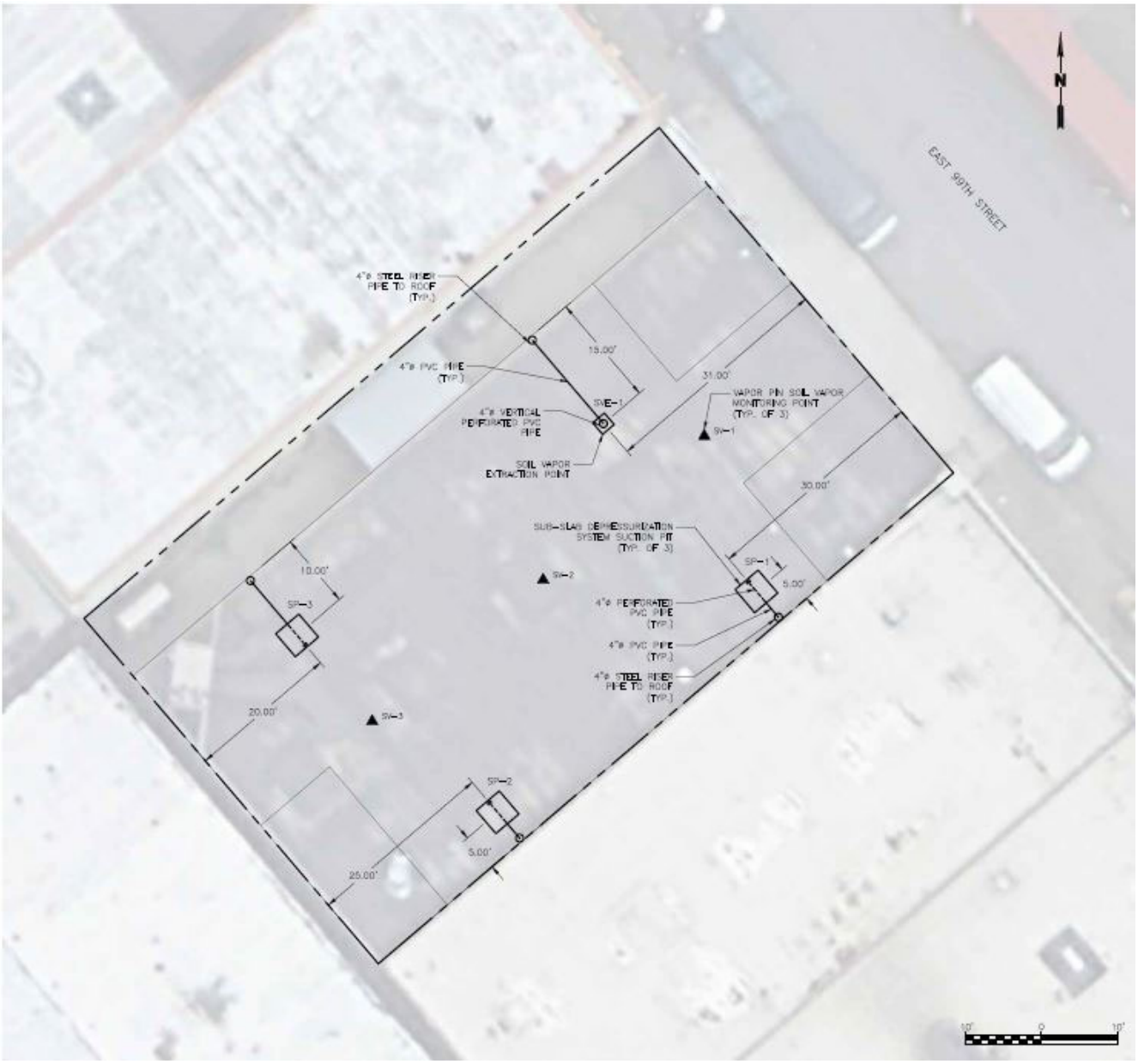
Photo 4: View of sawcutting at SP-3.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 29, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	65-80°F, Sunny, RH: 73%, P: 30.03" Wind: NW @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 30, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	58-70°F, Sunny, RH: 30%, P: 29.89" Wind: NE @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Saw cutter, Jackhammer • Dig bar, shovels, power tools, hand tools • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT completed trenching at SVE-1, SP-1, SP-2, and SP-3.
- IRT removed concrete from SVE-1, SP-1, SP-2, and SP-3.
- IRT hand dug SVE-1 pit to 6'8" below concrete grade using a hand auger, dig bar, and vacuum.
- IRT installed Mirafi fabric, NYSDOT Item 4 Type 2 Subbase, and began the PVC slotted horizonal and PVC header piping sections at SP-1 and SP-3.
- 5-Gas Multi Rae was used for work area screening.

Sampling performed:

- None

Material Delivered To Site:

- SSDS/SVES piping/material, NYSDOT Item 4 Type 2 Subbase

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Remove sawcut concrete slab and continue installation of SSDS/SVES.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 30, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	58-70°F, Sunny, RH: 30%, P: 29.89" Wind: NE @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of borehole at SVE-1.



Photo 2: View of PVC, Mirafi fabric, and stone installation at SP-1.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 30, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	58-70°F, Sunny, RH: 30%, P: 29.89" Wind: NE @ 4 mph
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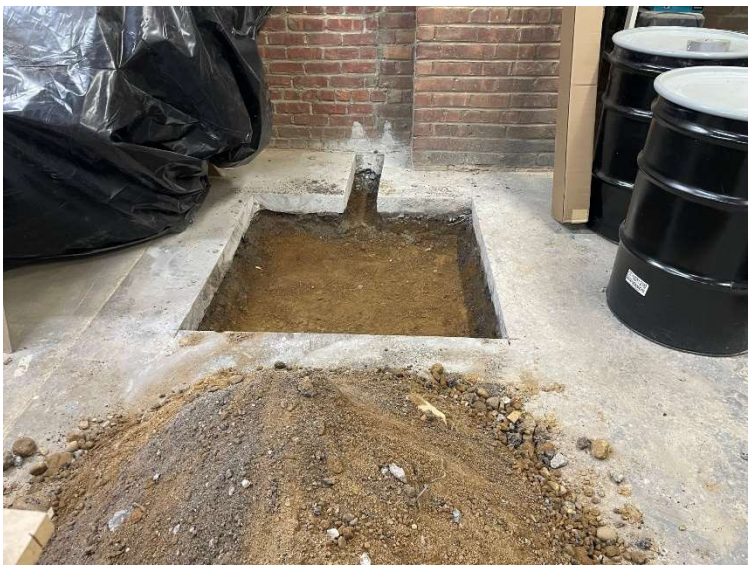


Photo 3: View of pit at SP-2.



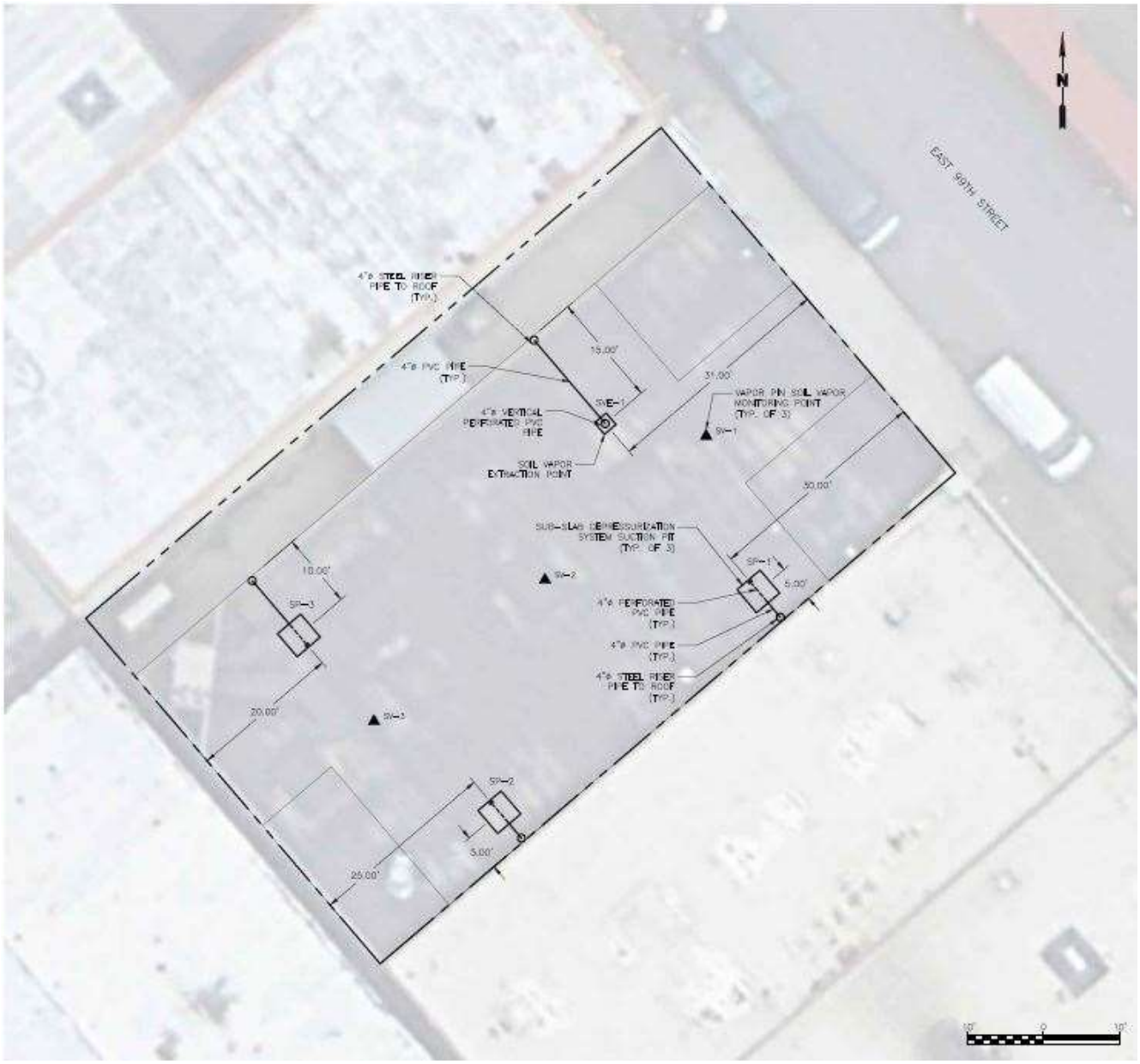
Photo 4: View of PVC installation at SP-3.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 30, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	58-70°F, Sunny, RH: 30%, P: 29.89" Wind: NE @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 31, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	59-73°F, Sunny, RH: 47%, P: 30.15" Wind: N @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Patrick Perry – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT completed trenching at SVE-1, SP-1, SP-2, and SP-3.
- IRT completed hand digging SVE-1 pit to 6'8" below concrete grade using a hand auger, dig bar, and vacuum.
- IRT completed installation of Mirafi fabric, NYSDOT Item 4 Type 2 Subbase, and completed the PVC slotted horizonal and PVC header piping sections at SVE-1, SP-1, SP-2, and SP-3.
- IRT poured concrete for slab replacement at SVE-1, SP-1, SP-2, and SP-3.
- 5-Gas Multi Rae was used for work area screening.

Sampling performed:

- None

Material Delivered To Site:

- SSDS/SVES piping/material, NYSDOT Item 4 Type 2 Subbase

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Continue installation of SSDS/SVES piping and in-line fans.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Patrick Perry**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 31, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	59-73°F, Sunny, RH: 47%, P: 30.15" Wind: N @ 5 mph
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PHOTOGRAPHS TAKEN TODAY:

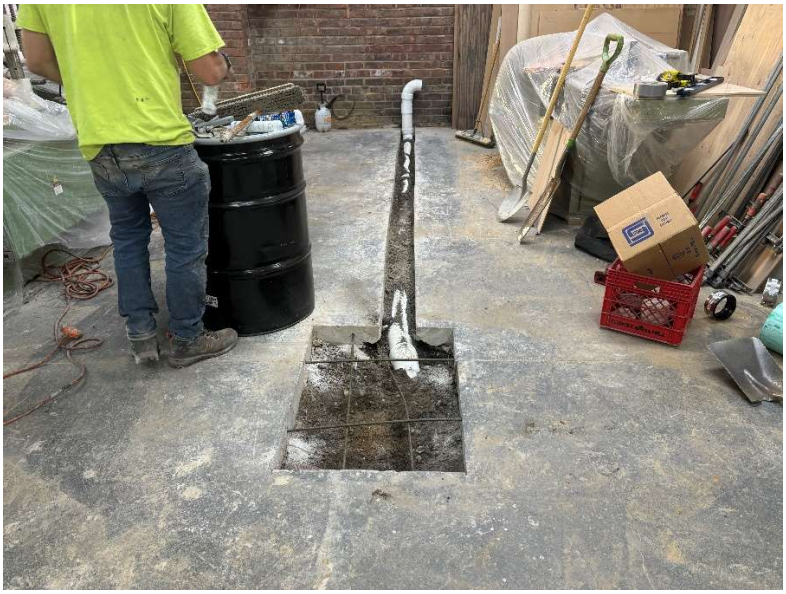


Photo 1: View of PVC, Mirafi fabric, and stone installaton at SVE-1 prior to concrete pour.



Photo 2: View of PVC, Mirafi fabric, and stone installation at SP-1 prior to concrete pour.

Approved:	**David Kaiser**	By:	**Patrick Perry**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 31, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	59-73°F, Sunny, RH: 47%, P: 30.15" Wind: N @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM



Photo 3: View of PVC, Mirafi fabric, and stone installation at SP-2 prior to concrete pour.



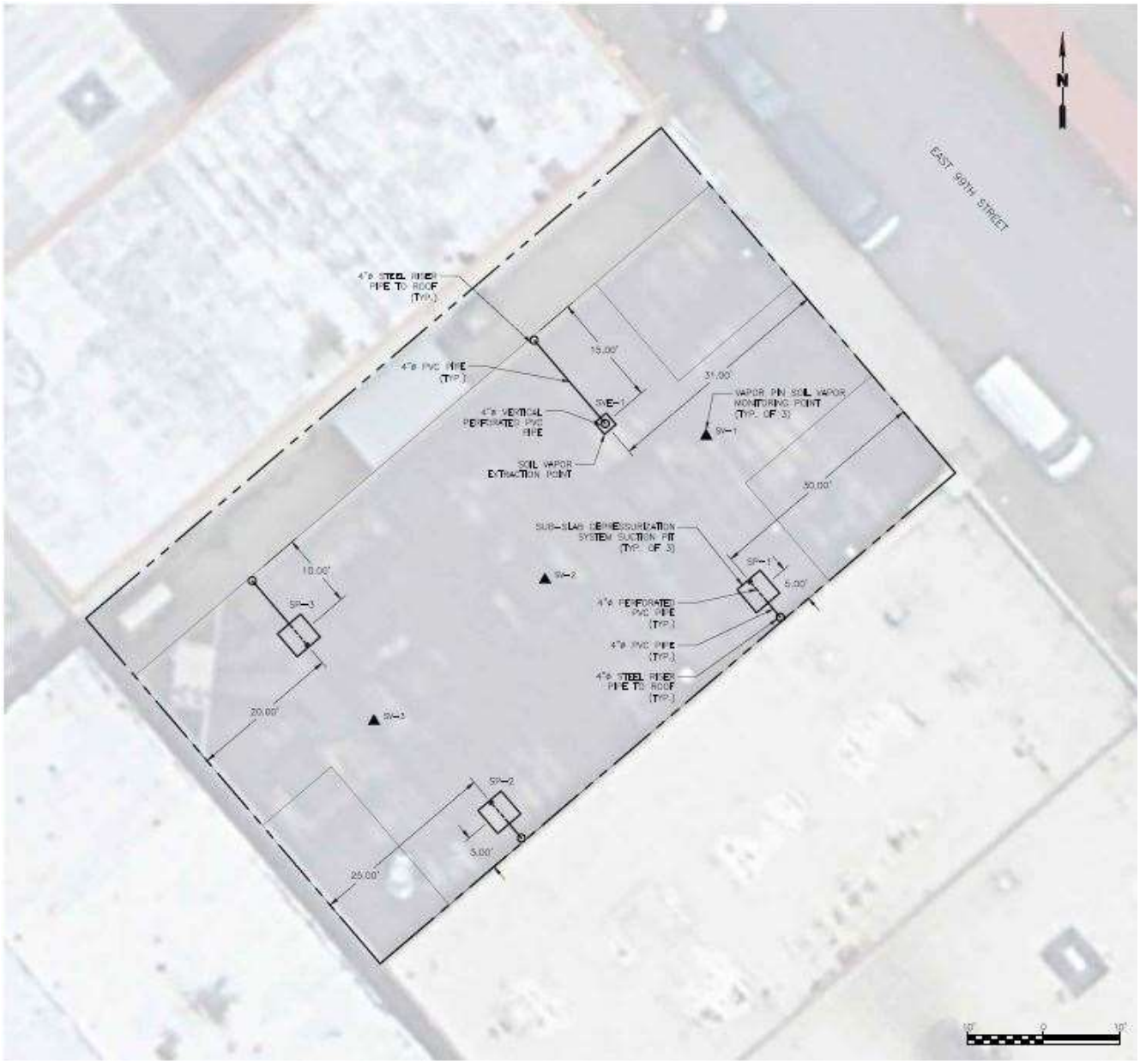
Photo 4: View of PVC, Mirafi fabric, and stone installation at SP-3 prior to concrete pour.

Approved:	**David Kaiser**	By:	**Patrick Perry**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	May 31, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	59-73°F, Sunny, RH: 47%, P: 30.15" Wind: N @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 15:00PM

Site Plan



Approved:	**David Kaiser**	By:	**Patrick Perry**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 3, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	66-85°F, Sunny, RH: 75%, P: 29.98" Wind: W @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT completed drilling and installation of soil vapor points SV-1, SV-2, and SV-3.
- IRT began installation of cast iron risers at SVE-1, SP-1, SP-2, SP-3.
- IRT inspected GX5 Radon Blowers for roof installation.
- Electrician onsite for Site-walk and inspection.
- DEC onsite for Site-walk and inspection.

Sampling performed:

- None

Material Delivered To Site:

- Black cast iron pipe
- Kindorf metal framing

Material Removed From Site:

- Concrete C&D from trenching of SVE-1, SP-1, SP-2, and SP-3

NYSDEC or Other Inspections:

- DEC onsite for Site inspection.

Upcoming work activities anticipated:

- Continue installation of SSDS/SVES piping and in-line fans. Anticipated completion on Wednesday, 6/5.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 3, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of SV-1 vapor point.



Photo 2: View of SV-2 vapor point.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 3, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	66-85°F, Sunny, RH: 75%, P: 29.98" Wind: W @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM



Photo 3: View of SV-3 vapor point.



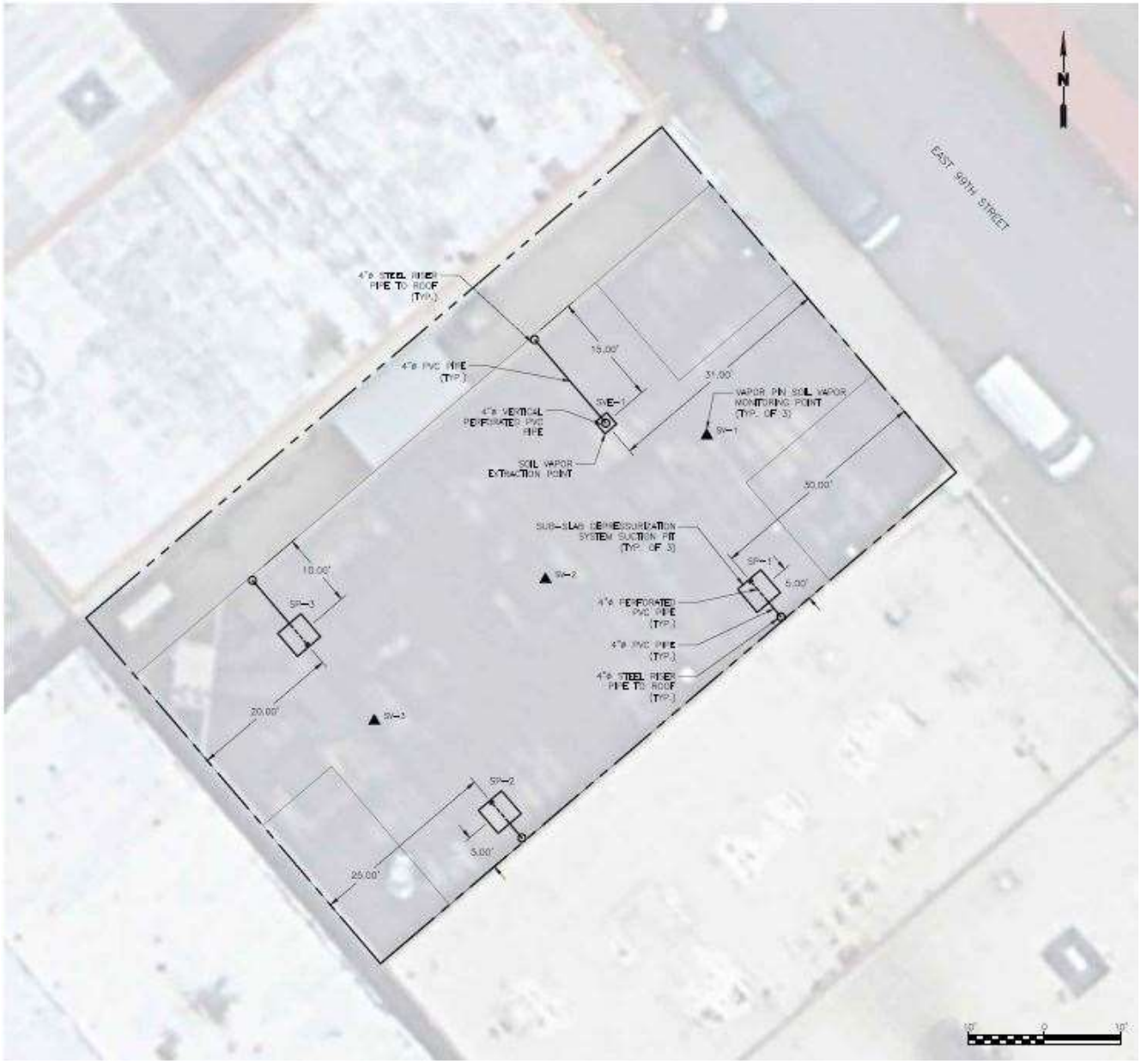
Photo 4: View of SVE-1 cast-iron riser and bracket framing.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 3, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	66-85°F, Sunny, RH: 75%, P: 29.98" Wind: W @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 4, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	64-77°F, Sunny, RH: 83%, P: 30.01" Wind: E @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 14:30PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Jeff Die – Ability Electrical Services Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT continued installation of cast iron risers, elbows and brackets at SVE-1, SP-1, SP-2, SP-3.
- Ability Electrical Services (Electrician) onsite to run electrical conduit, set electric boxes, and perform voltage testing.

Sampling performed:

- None

Material Delivered To Site:

- None

Material Removed From Site:

- 5 gas MultiRAE air monitor picked up by Eco-Rental as soil intrusive activities are completed.

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Continue installation of SSDS/SVES piping and in-line fans. Anticipated completion on Wednesday, 6/5 or Thursday 6/6.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 4, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	64-77°F, Sunny, RH: 83%, P: 30.01" Wind: E @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 14:30PM

PHOTOGRAPHS TAKEN TODAY:

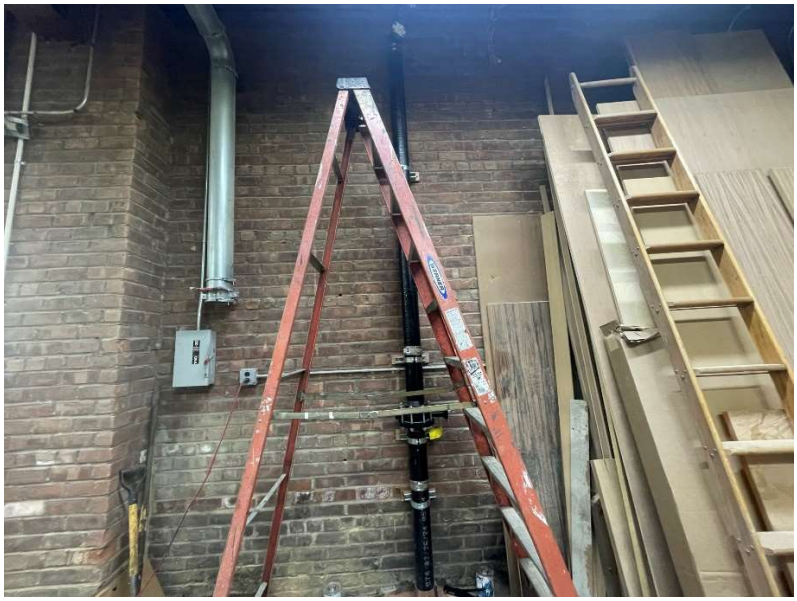


Photo 1: View of cast iron riser and valve at SVE-1.

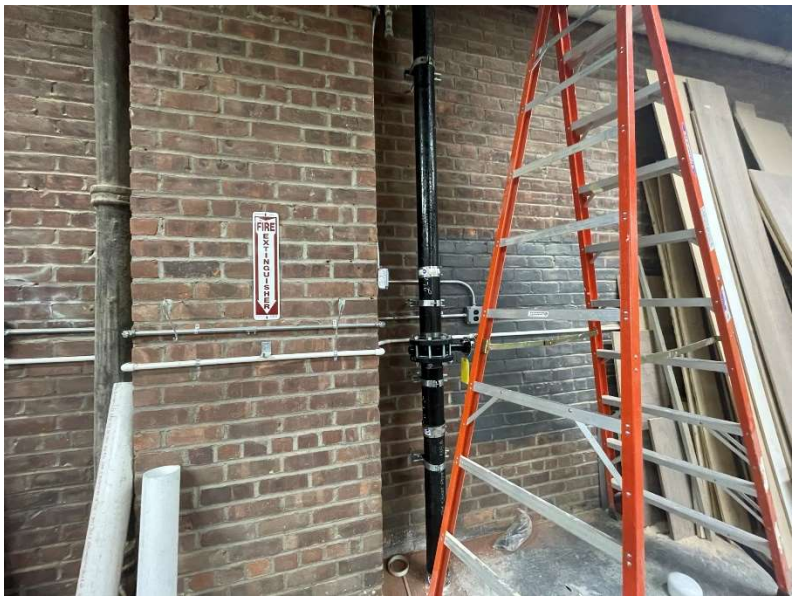


Photo 2: View of cast iron riser and valve at SP-1.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 4, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	64-77°F, Sunny, RH: 83%, P: 30.01" Wind: E @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 14:30PM



Photo 3: View of cast iron kick out at SP-1.

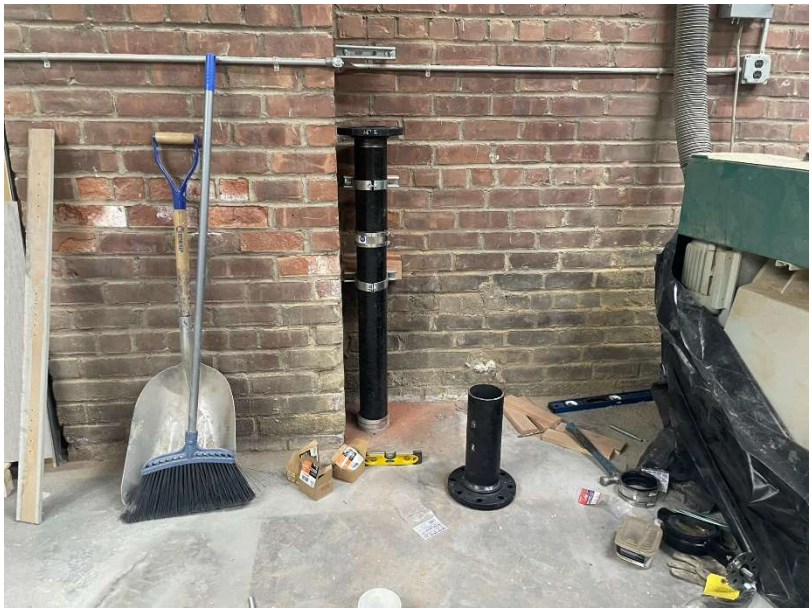


Photo 4: View of SP-3 prepped for valve install.

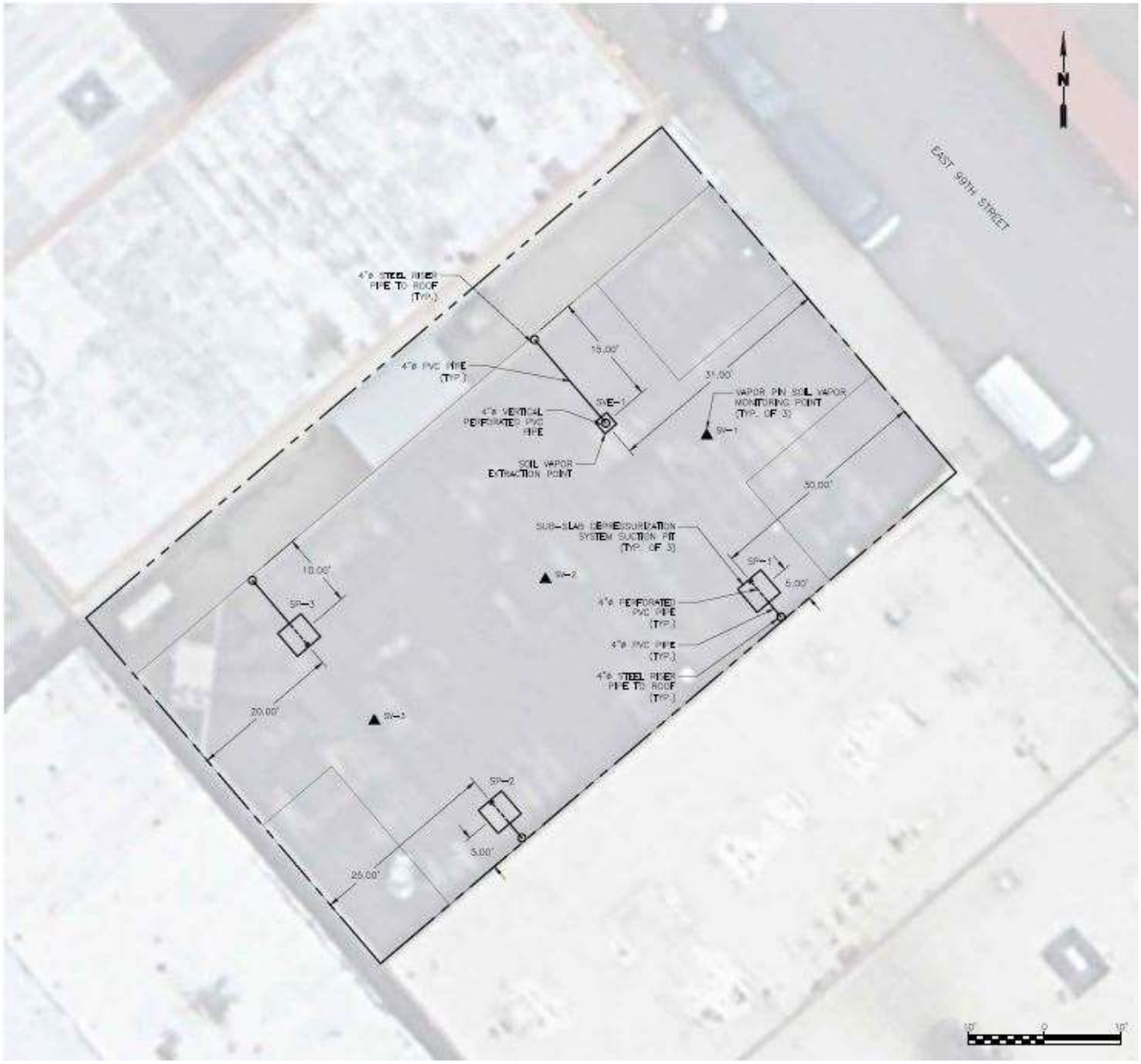
Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 4, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	64-77°F, Sunny, RH: 83%, P: 30.01" Wind: E @ 3 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 14:30PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 5, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	63-78°F, Sunny, RH: 83%, P: 29.97" Wind: S @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 16:00PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Jeff Die – Ability Electrical Services Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT completed installation SSDS/SVES piping and in-line fans at SVE-1, SP-1, SP-2, SP-3.
- IRT re-staged drums containing Site-soil in the outside adjacent alley on the Property for future disposal pending laboratory analysis.

Sampling performed:

- None

Material Delivered To Site:

- None

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Finish installation of SSDS/SVES sampling ports, vacuum gauges, and run electric conduit on roof. Anticipated completion on Friday, 6/7.
- No work is planned for Thursday, 6/6.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 5, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	63-78°F, Sunny, RH: 83%, P: 29.97" Wind: S @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 16:00PM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of staging area of Site-soil drums.



Photo 2: View of cast iron riser and in-line fan at SVE-1.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 5, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	63-78°F, Sunny, RH: 83%, P: 29.97" Wind: S @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 16:00PM

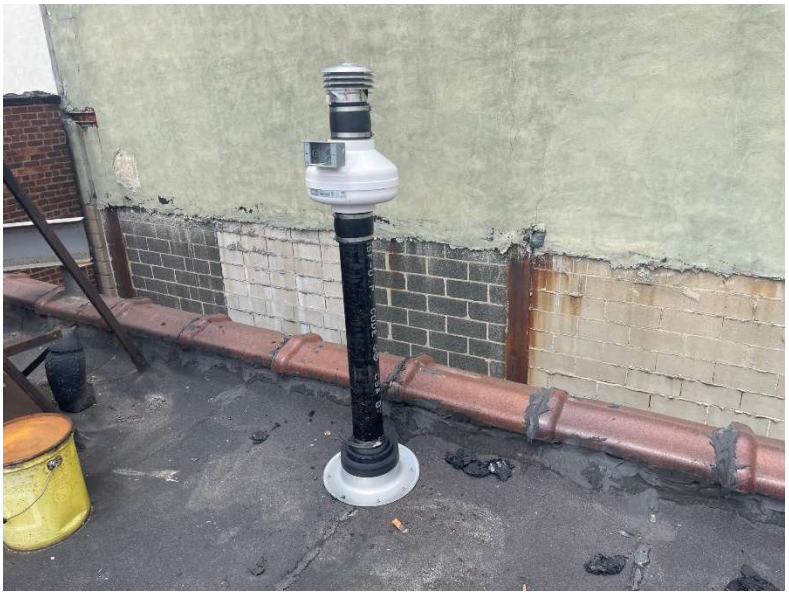


Photo 3: View of cast iron riser and in-line fan at SP-3



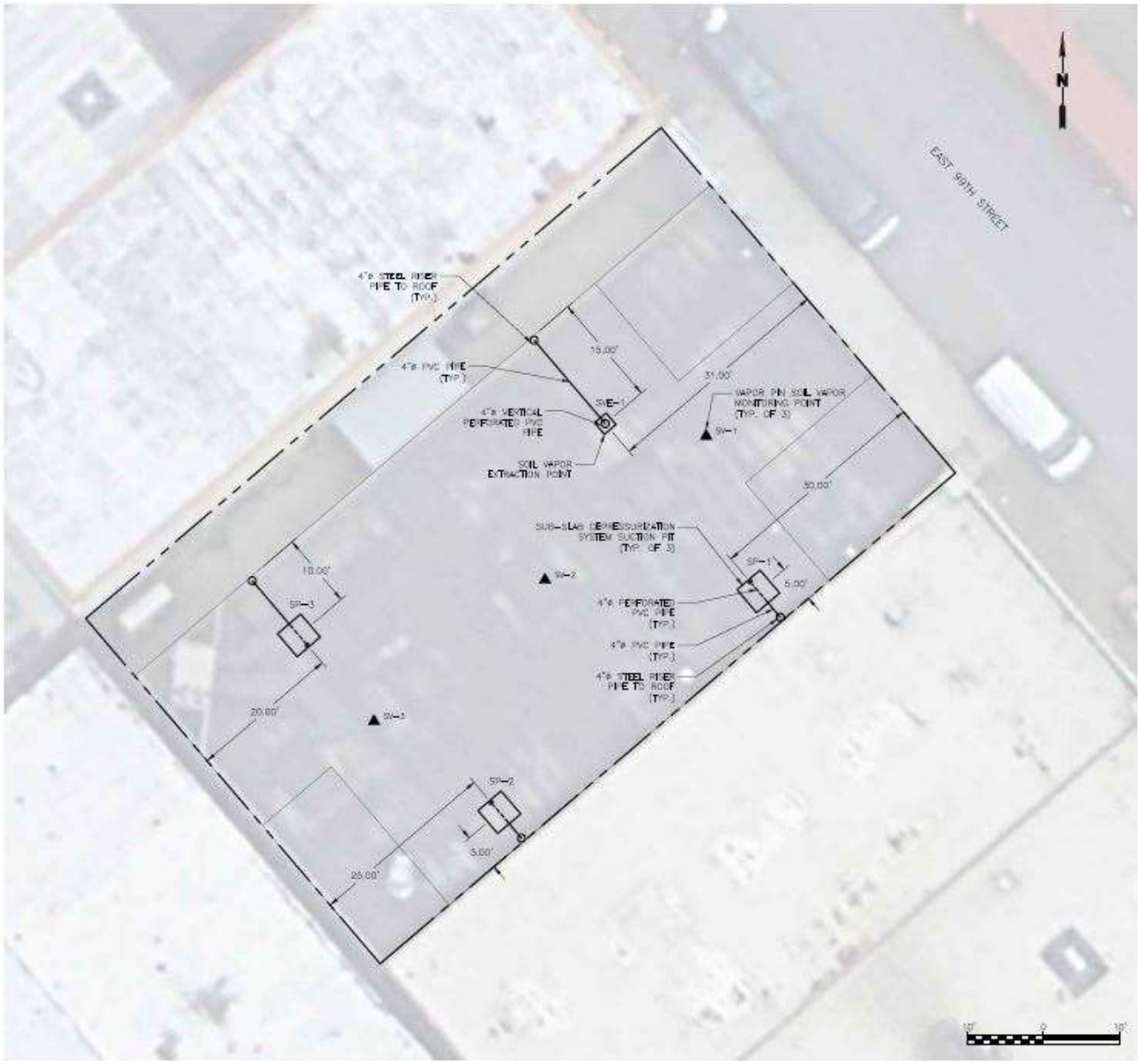
Photo 4: View of cast iron riser and in-line fan at SP-2 (foreground) and SP-1 (background).

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 5, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	63-78°F, Sunny, RH: 83%, P: 29.97" Wind: S @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 16:00PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 7, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	67-81°F, Partly Cloudy, RH: 40%, P: 29.50" Wind: SW @ 6 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 11:00AM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Jeff Die – Ability Electrical Services Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- IRT installed ¼" Sample Ports and system alarms at SVE-1, SP-1, SP-2, and SP-3.

Sampling performed:

- None

Material Delivered To Site:

- None

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Complete electrical installation to system. Anticipated completion on Tuesday, 6/11.
- No work is planned for Monday, 6/10.

Roux Oversight:

- Roux will continue to oversee SSDS/SVES equipment installation activities.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 7, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 11:00AM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of system alarm installed at SVE-1.



Photo 2: View of ¼" pilot hole drilled for sample port installation.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 7, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 11:00AM



Photo 3: View of sample port at SVE-1.



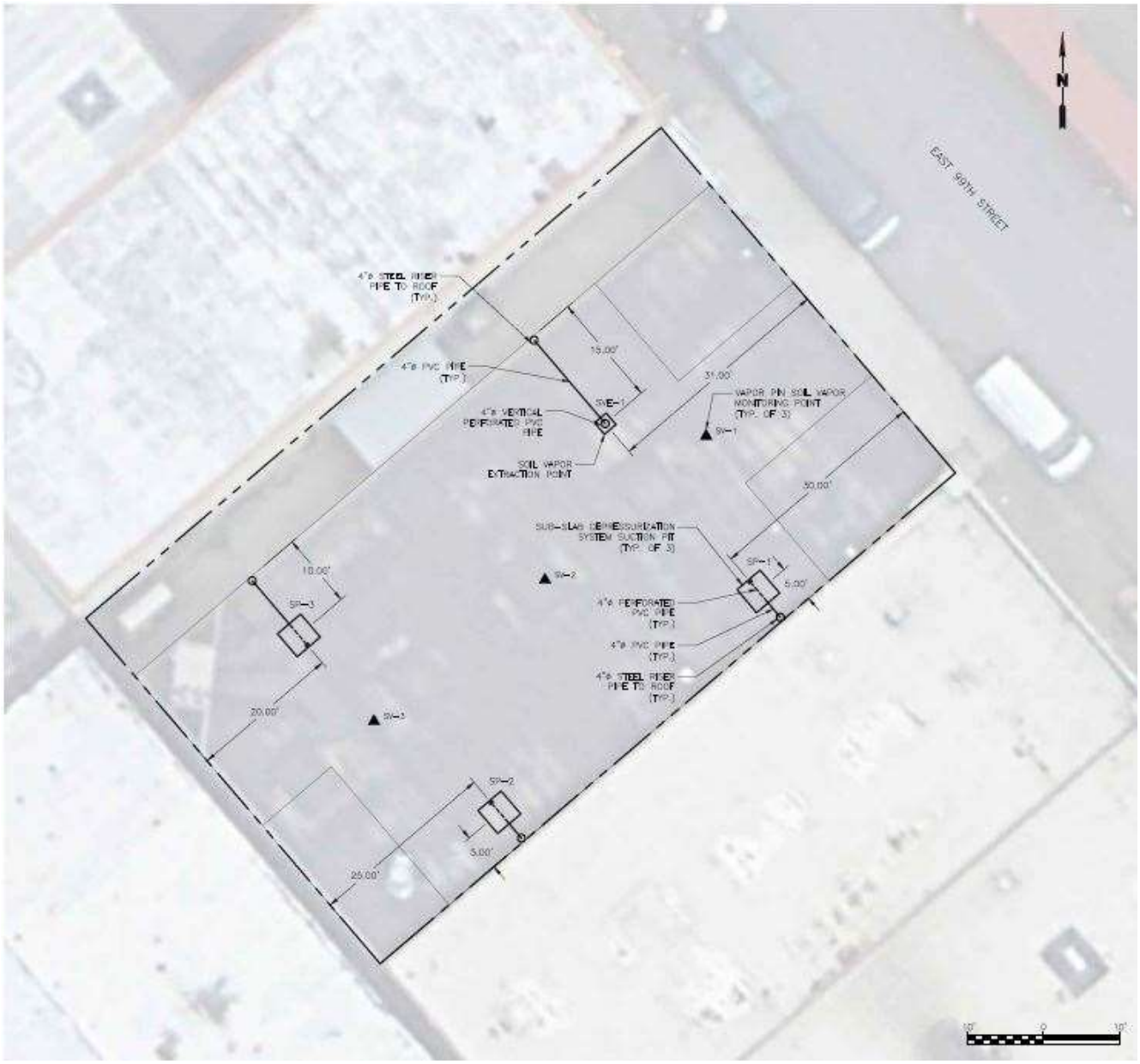
Photo 4: View of sample port at SP-2.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 7, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	67-81°F, Partly Cloudy, RH: 40%, P: 29.50" Wind: SW @ 6 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 11:00AM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 11, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	56-74°F, Partly Cloudy, RH: 52%, P: 29.41" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies (IRT) • Dig bar, shovels, power tools, hand tools, wheel barrel • SSDS/SVES piping/material	Drew Kaplan – Roux Matt Copeland – IRT Carlos Tobar – IRT Sal Reyes – IRT Douglas Allen – IRT Jeff Die – Ability Electrical Services Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee SSDS/SVES Installation.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- Electricians completed electrical conduit installation on the roof.
- IRT completed installation of SVES and SSDS at SVE-1, SP-1, SP-2, and SP-3.

Sampling performed:

- None

Material Delivered To Site:

- None

Material Removed From Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- SVES/SSDS installation completed 6/11/2024.

Roux Oversight:

- Roux monitored vacuum measurements at SVE-1, SP-1, SP-2, SP-3, SV-1, SV-2, and SV-3 with a micromanometer.

Location	SVE-1 Riser	SP-1 Riser	SP-2 Riser	SP-3 Riser	SV-1	SV-2	SV-3
Vacuum (inches of water)	-4.551	-4.207	-4.606	-3.869	-0.658	-0.079	-1.240

Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 11, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	56-74°F, Partly Cloudy, RH: 52%, P: 29.41" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of SP-3 in-line fan and electric assembly.



Photo 2: View of SVE-1 in-line fan and electric assembly.

Approved:	**David Kaiser**	By:	**Drew Kaplan**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 11, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM



Photo 3: Vacuum monitoring at SVE-1 riser.



Photo 4: Vacuum monitoring at SV-3 monitoring point.

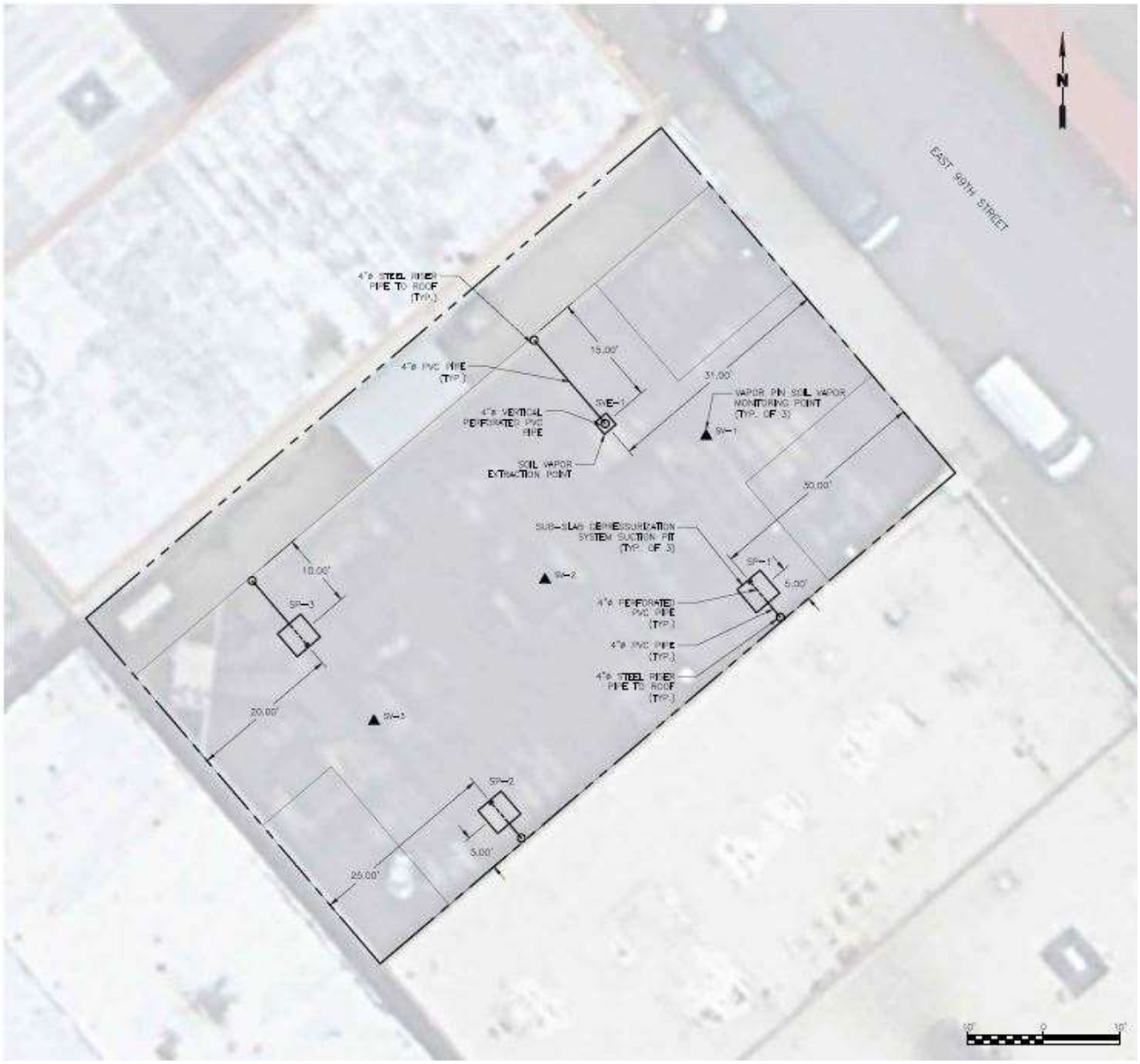
Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	June 11, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	56-74°F, Partly Cloudy, RH: 52%, P: 29.41" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:00AM – 12:30PM

Site Plan



Approved:	**David Kaiser**	By:	**Drew Kaplan**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	72-84°F, Partly Cloudy, RH: 70%, P: 30.02" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
None	Ashley Iervolino – Roux Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to collect samples from the SSDS/SVES installed last month.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

Sampling performed:

- Grab samples at SVE-1, SP-1, SP-2, and SP-3 were collected and sent for TO-15 analysis.

Material Delivered to Site:

- None

Material Removed from Site:

- None

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- Drum pickup, transport and disposal on 7/24/24

Roux Oversight:

- Roux monitored vacuum measurements at SVE-1, SP-1, SP-2, and SP-3 with a micromanometer.
- Roux collected grab samples from SVES/SSDS discharge pipe sampling ports at SVE-1, SP-1, SP-2, and SP-3.

Location	SVE-1 Riser	SP-1 Riser	SP-2 Riser	SP-3 Riser
Vacuum (inches of water)	-5.699	-4.179	-4.471	-4.064

Approved:	**David Kaiser**	By:	**Ashley Iervolino**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	72-84°F, Partly Cloudy, RH: 70%, P: 30.02" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM

PHOTOGRAPHS TAKEN TODAY:



Photo 1: View of Summa canisters ready for sample collection.

Approved:	**David Kaiser**	By:	**Ashley Iervolino**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
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LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM



Photo 2: Vaccuum monitoring at SVE-1 riser.

Approved:	**David Kaiser**	By:	**Ashley Iervolino**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	72-84°F, Partly Cloudy, RH: 70%, P: 30.02" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM

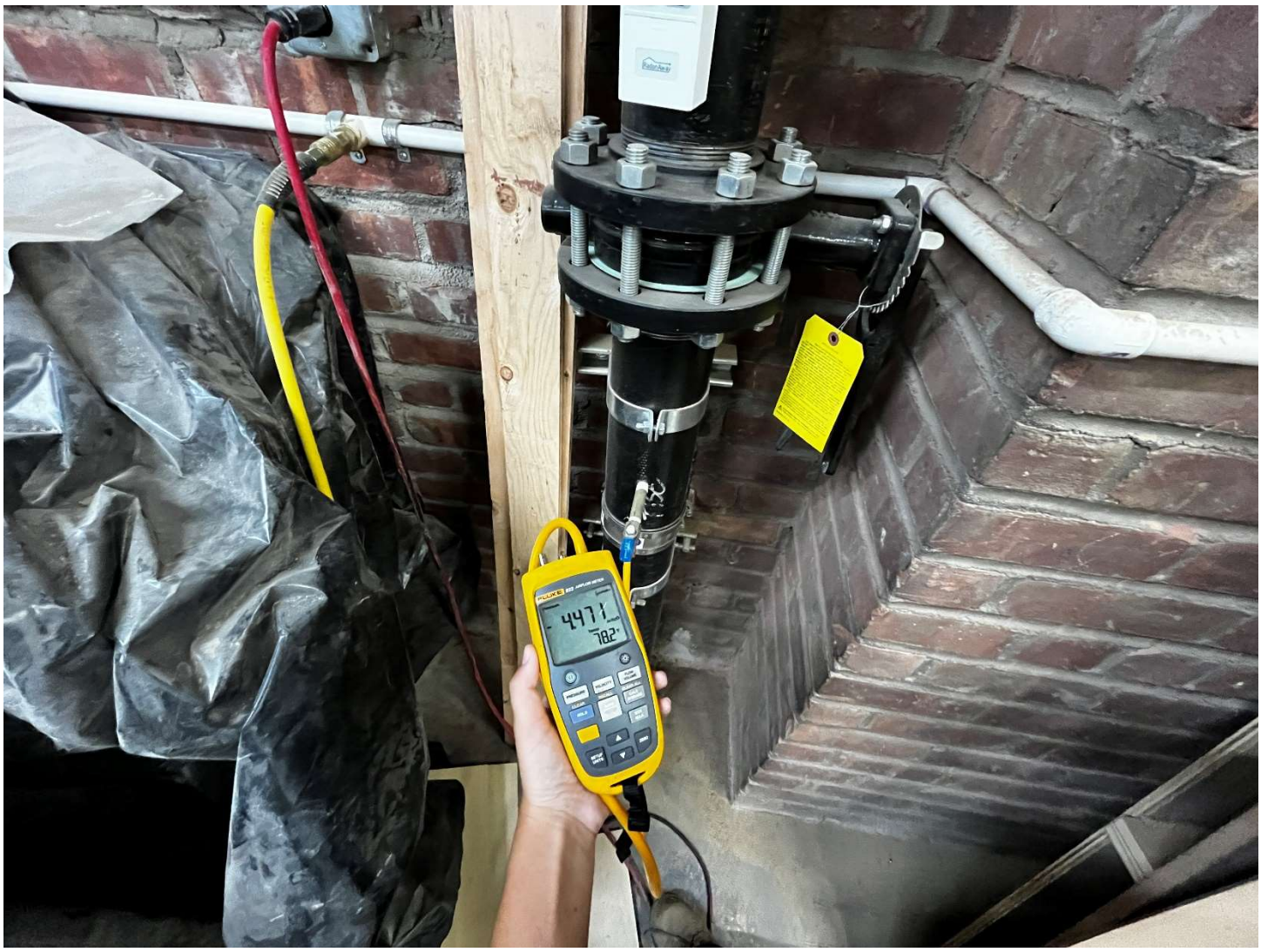


Photo 3: Vacuum monitoring at SP-2 riser.

Approved:	**David Kaiser**	By:	**Ashley Iervolino**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	72-84°F, Partly Cloudy, RH: 70%, P: 30.02" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM

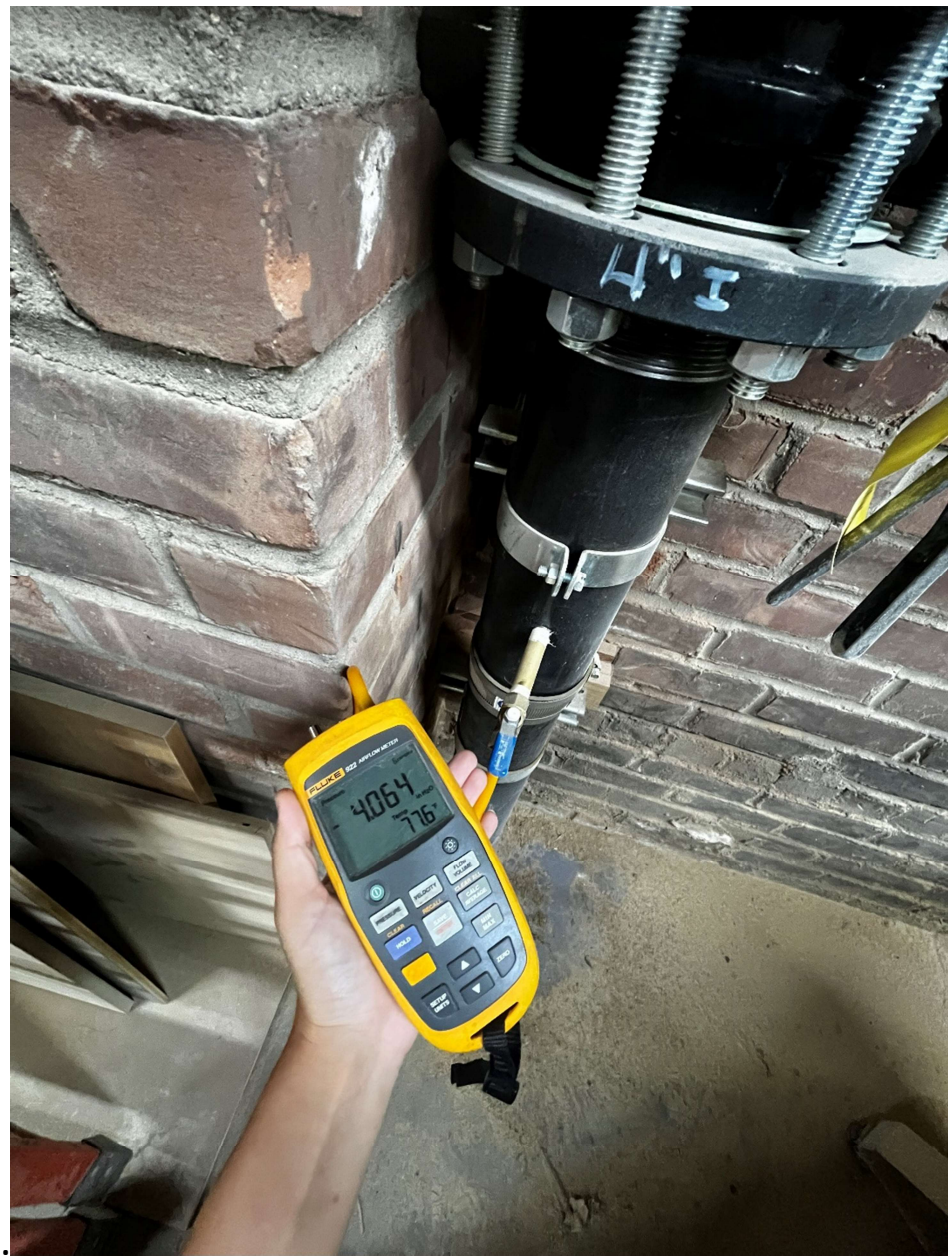


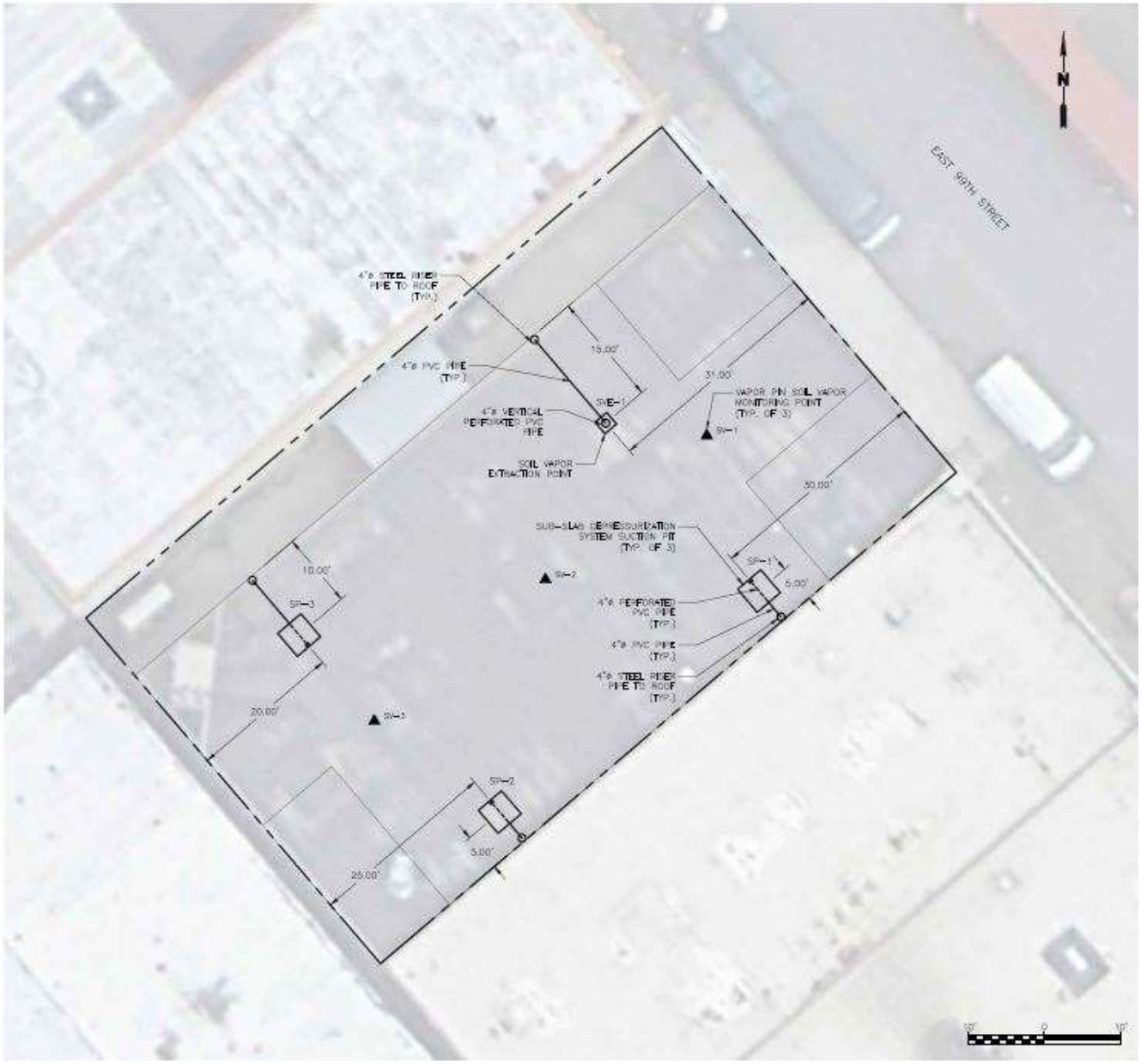
Photo 4: Vacuum monitoring at SP-3 riser.

Site Plan

Approved:	**David Kaiser**	By:	**Ashley Iervolino**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 22, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	72-84°F, Partly Cloudy, RH: 70%, P: 30.02" Wind: SW @ 4 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	7:20AM – 8:30AM



Approved:	**David Kaiser**	By:	**Ashley Iervolino**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11” Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Innovative Recycling Technologies	Adrian Walker – Roux Wolfgang Michelitsch – Property Owner

OBSERVATIONS, DISCUSSIONS, ETC.

Roux was onsite to oversee pick up of waste drums.

GENERAL COMMENTS: Conduct H&S safety briefing and scope of work meeting.

Description of contractor work activities performed:

- Innovative Recycling Technologies picked up 11 – 55-gallon soil waste drums

Sampling performed:

- None

Material Delivered to Site:

- None

Material Removed from Site:

- 11 drums containing soil

NYSDEC or Other Inspections:

- None

Upcoming work activities anticipated:

- None

Roux Oversight:

- Roux oversaw the pickup of waste drums

Approved:	**David Kaiser**	By:	**Adrian Walker**

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11" Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM

PHOTOGRAPHS TAKEN TODAY:

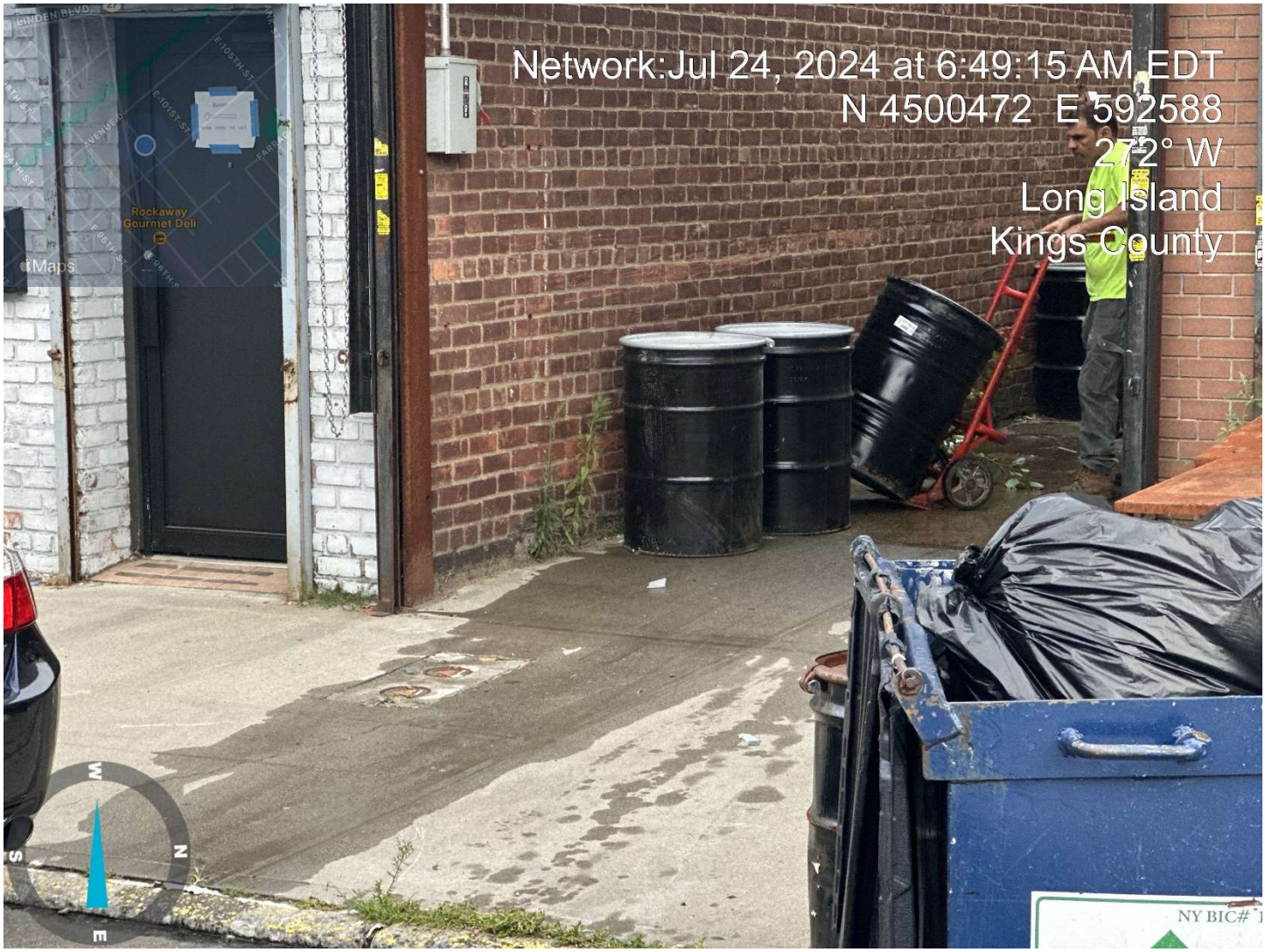


Photo 1: View of IRT removing drum from the alley way.

Approved:	**David Kaiser**	By:	**Adrian Walker**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11" Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM



Photo 2: View of drums in the alley way waiting to be picked up.

Approved:	**David Kaiser**	By:	**Adrian Walker**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11" Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM



Photo 3: Drum is bring loaded unto the truck's lift for transport and disposal.

Approved:	**David Kaiser**	By:	**Adrian Walker**

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11" Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM

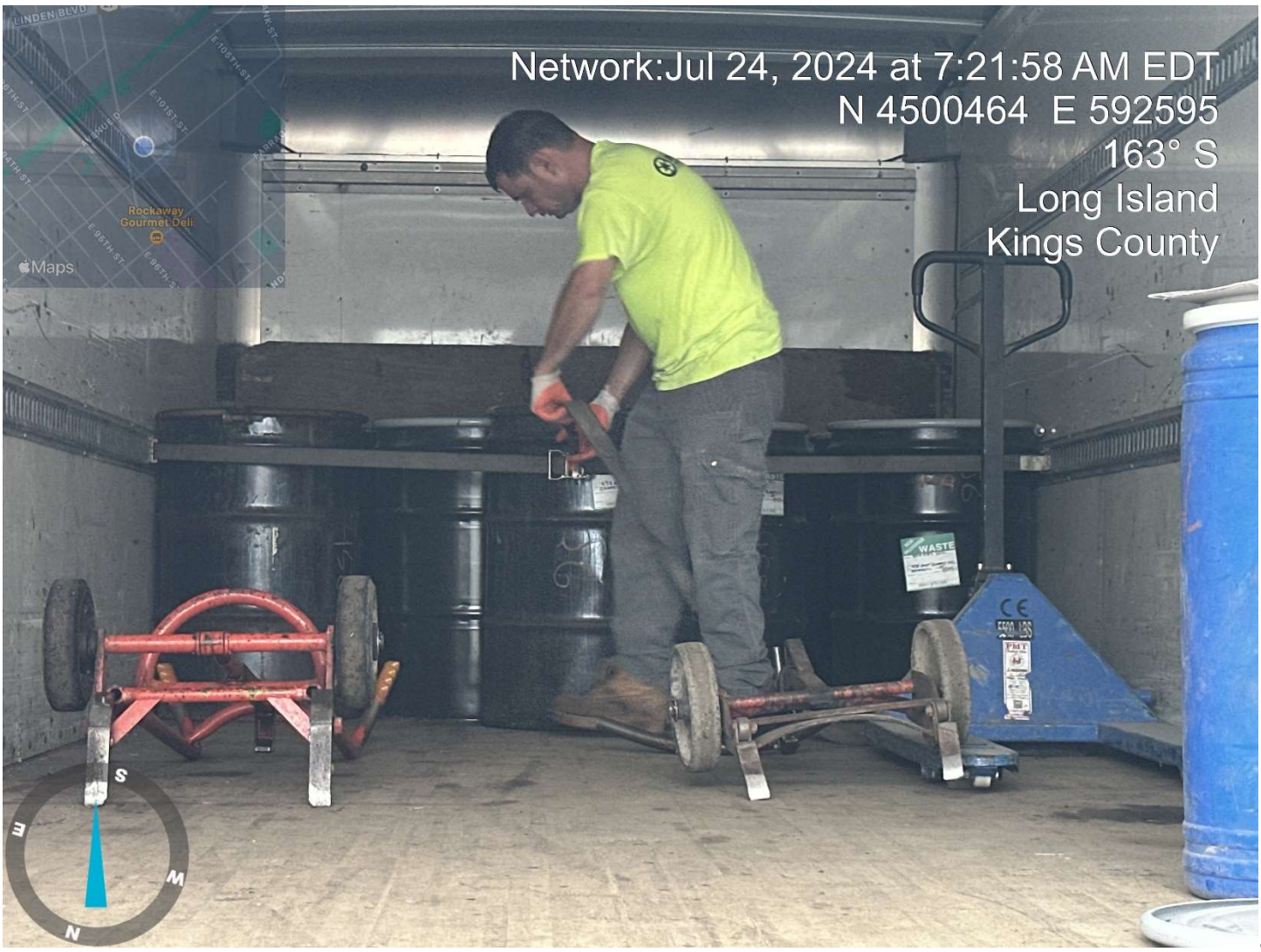


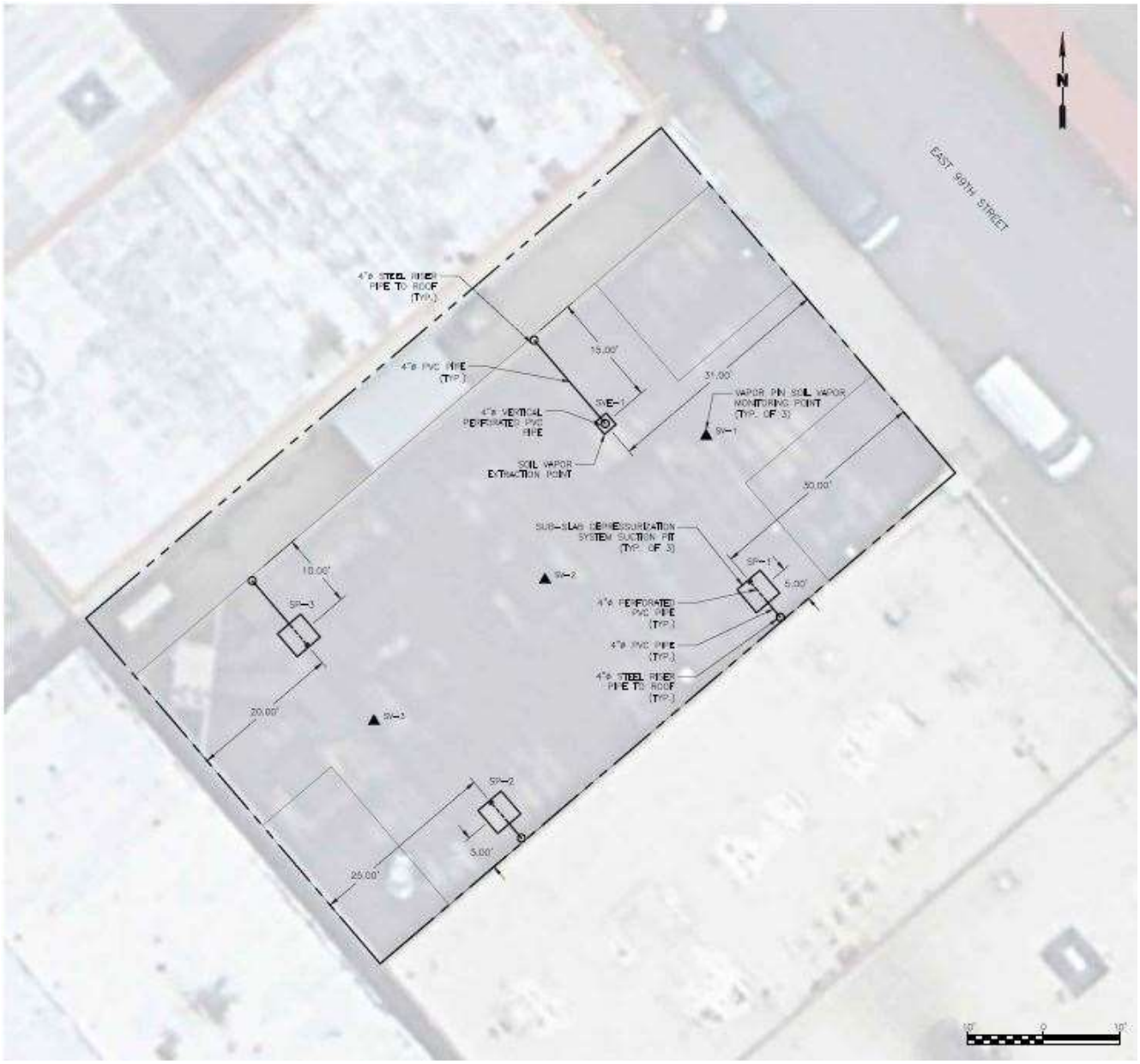
Photo 4: View of IRT securing the drums before shipment.

Approved:	**David Kaiser**	By:	**Adrian Walker**

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

PROJECT NO.:	4078.0001Y000	**CLIENT:**	**DATE:**	July 24, 2024
PROJECT:	458 E. 99th Street	Euro Woodworking, LLC	**WEATHER:**	73-84°F, Cloudy, RH: 91%, P: 30.11" Wind: ENE @ 5 mph
LOCATION:	458 E. 99th Street Brooklyn, New York 11236		**TIME:**	6:45AM – 7:35AM

Site Plan



Approved:	**David Kaiser**	By:	**Adrian Walker**

APPENDIX D

Monthly Progress Reports

ROUX

PROGRESS REPORT #1

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: September 1 through September 30, 2021

Report Date: October 8, 2021

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

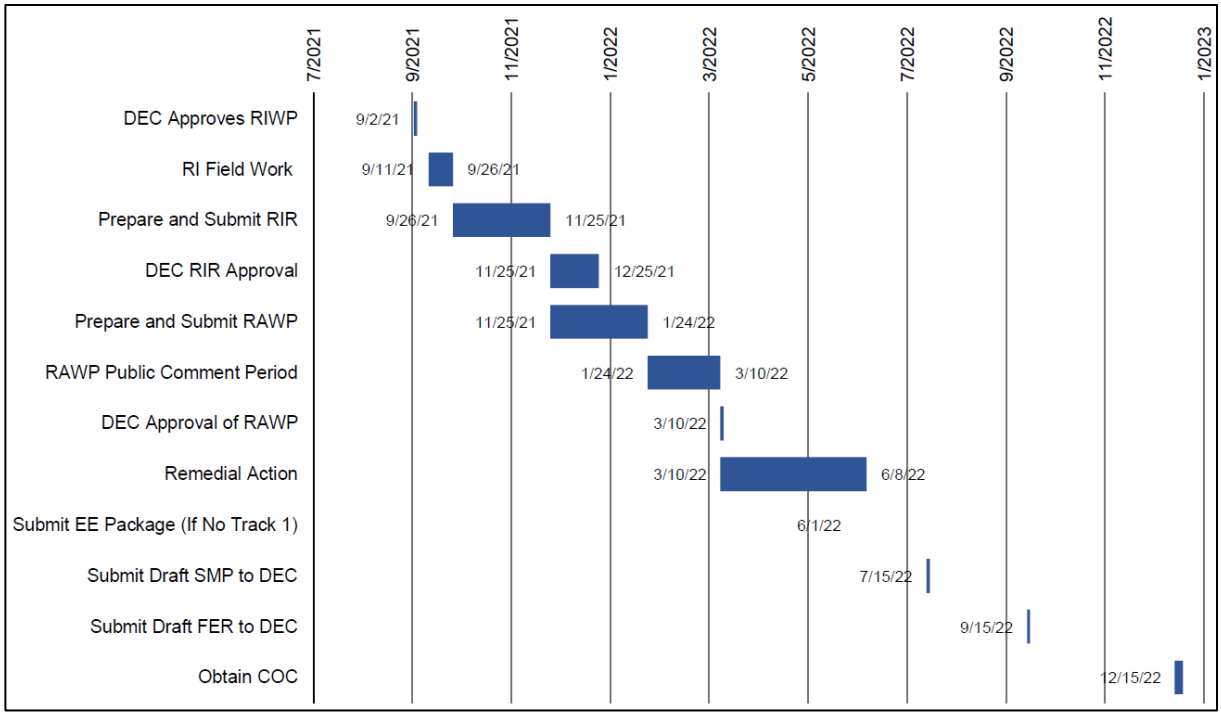
- On August 27, 2021, Roux submitted the final version of the Remedial Investigation Work Plan (RIWP) to NYSDEC and New York State Department of Health (NYSDOH).
- On August 31, 2021, NYSDEC and NYSDOH approved the RIWP.
- On September 2, 2021, a copy of the approved RIWP was sent to the document repositories as listed in the Citizen Participation Plan (CPP).
- Roux continued preparations for RI field implementation including coordination and scheduling with field staff, various contractors, and the property owner.

II. BCP Activities Planned for the Next Reporting Period (October 1 through October 31, 2021)

RI field implementation will begin during the reporting period and is scheduled to begin October 9, 2021. Roux will notify NYSDEC at least five days in advance of commencing the RI.

III. Schedule and Changes to Scope of Work or Schedule

A summary of the current milestones completed to date and projected schedule milestones, as provided in the approved RIWP, is below. This schedule will be updated as the project progresses.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

There were no deliverables submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

There are no delays related to the RI field activities.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

On September 2, 2021, a copy of the approved RIWP was sent to the public document repositories and the certificate of transmittal was sent to NYSDEC.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No CPP Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #2

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: October 1 through October 31, 2021

Report Date: November 10, 2021

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- On October 9, 2021 Roux mobilized to the Site to implement the Remedial Investigation as described in the Remedial Investigation Work Plan (RIWP), which was dated August 27, 2021 and approved by NYSDEC on August 31, 2021. Field implementation including sampling, Community Air Monitoring Plan (CAMP), and reporting activities were conducted over a total of five weekend workdays (i.e., off-hours) from October 9 through October 23, 2021 in accordance with the RIWP and NYSDEC-approved modifications. Modifications to the RI sampling strategy were made in real-time and approved by NYSDEC on October 13, 2021, and will be described in full detail in the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP).
- Roux began to compile RI data to prepare for submission of the draft RIR/RAWP.

II. BCP Activities Planned for the Next Reporting Period (November 1 through November 30, 2021)

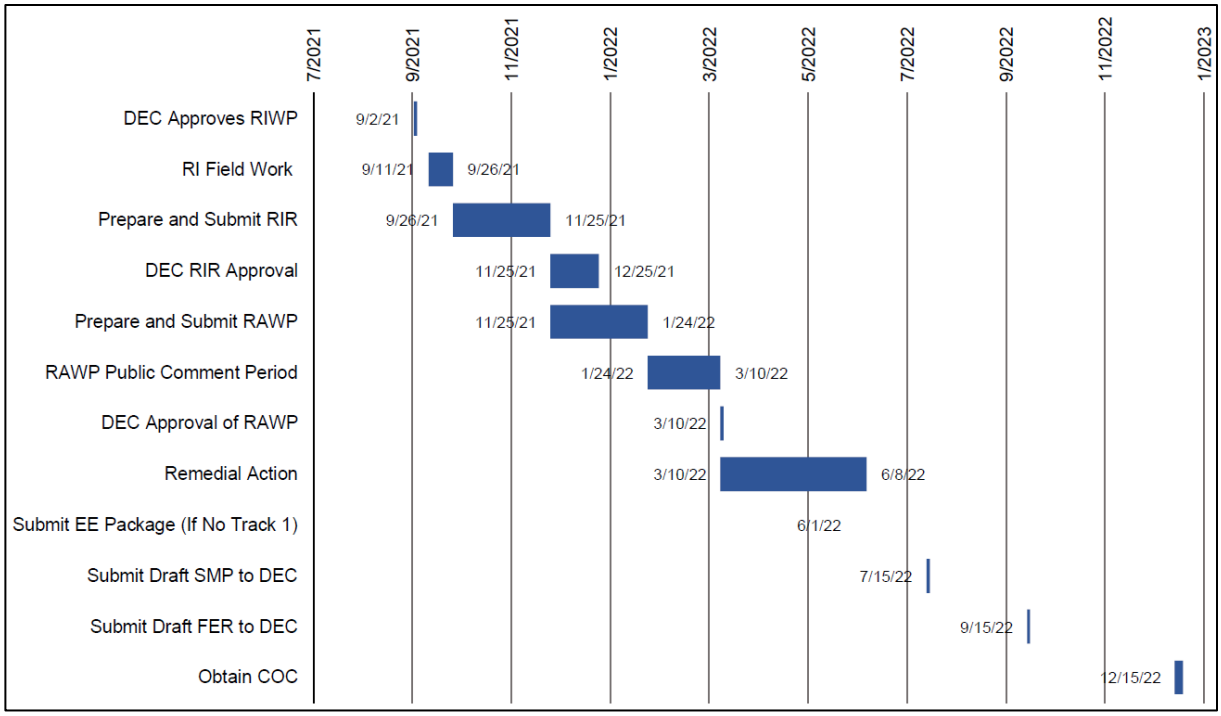
The following BCP Activities will be performed in the next reporting period:

- Roux will continue to compile RI data to prepare for submission of the draft RIR/RAWP.
- A conference call with NYSDEC and NYS Department of Health (NYSDOH) will be scheduled to discuss the available environmental data and scoping of the draft RAWP.

III. Schedule and Changes to Scope of Work or Schedule

An updated summary of the current milestones completed to date and projected schedule milestones is below. This schedule will be updated as the project progresses.

3782.0001Y106/PR



IV. Sampling and Other Data Received or Generated during the Reporting Period

Sampling data was generated during the reporting period as part of the RI and some data was received. Roux will continue to compile data for submission to NYSDEC.

V. Deliverables Submitted during the Reporting Period

Daily field activity reports, including CAMP reports (when necessary), were submitted to NYSDEC to summarize RI implementation activities as field work occurred. The field activity reports and CAMP reports are attached.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and there are no anticipated delays for future BCP activities.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/09/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy, 61 F, H: 85% P: 30.24" Hg, ENE Wind @ 10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Eastern Environmental Solutions: Pat Slavin and Nick Turro Bloodhound Surveying: Steve Strahmann Equipment: Geoprobe 6610	Roux Environmental Engineering and Geology, D.P.C. Matthew Mueller, Field Manager Levi Curnutte, Project Manager

GENERAL COMMENTS:

Roux Environmental Engineering and Geology, D.P.C. (Roux) was onsite to perform the NYSDEC-approved Remedial Investigation Work Plan (RIWP) field implementation.

RI Activities performed:

- Bloodhound Surverying performed a geophysical survey of the available areas inside the building, in the concrete sidewalk in the alley on the west side of the site and in front of the building. The only areas not surveyed were covered with large, stationary woodworking machines
  - The only anomalies identified were utility lines in the offsite sidewalk area and also inside the building in the storage/break room and bathroom.
  - Located a 2" metal pipe in the southeast corner of the site extending onto the site from the brick wall approx. 4'. The pipe partially penetrated the slab and was confirmed by survey to end where it is penetrating the slab (see photo).
  - Sewer system evaluation: The survey successfully identified a sanitary line in the sidewalk that ran perpendicular to the site boundary at approx. 3' below land surface (bls) extending from the Site building and into the street. The sanitary line was traced into the storage/break room and bathroom and readings were consistent with locating the line 3' bls. The sanitary line was not confused with the separate reading and markout of the water line approx. 1' bls running into the Site building (see photo) and feeding to the observed NYCDEP water meter. The portion of the RIWP requiring confirmation that the building was connected to the municipal was satisfied by means of GPR survey and using a magnetic, traceable rodder is not necessary. No further actions regarding the sewer system evaluation are proposed.
- Roux and Eastern Environmental completed drilling work at a total of 4 boring locations. Each location was cleared to approx. 5' bls using hand tools for utility clearance prior to drilling.
  - Borings B-4 and B-6/GW-6D were completed to 25' bls and a permanent monitoring well was installed at GW-6 (screen at 15-25' bls).
  - Borings GW-6S and GW-7S were completed to 15' bls and permanent monitoring wells were installed (screen at 5-15' bls)

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/09/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy, 61 F, H: 85% P: 30.24" Hg, ENE Wind @ 10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**

Sampling performed:

- Roux collected and submitted to the laboratory the following soil samples: B-4 (0.5-2.5)/B-4 (0.5-2.5)_P, B-4 (10-12)/B-4 (10-12)_P, B-4 (23-25)/B-4 (23-25)_P, B-6 (0.5-2.5)/B-6 (0.5-2.5)_P, B-6 (9-11)/B-6 (9-11)_P, B-6 (23-25)/B-6 (23-25)_P, and associated QA/QC samples for the analysis listed in the approved RIWP

CAMP Performed:

- CAMP was performed from 8:30 AM to 2:55 PM. No exceedances occurred.

Other Relevant Comments or Issues:

- SSSV-3 will be installed approximately 5' to the north of where shown on Figure 6 of the RIWP. The original location was located on a concrete ramp entrance/exit and was relocated to the nearest location off of the ramp.
- Well cluster GW-4S/GW-4D was proposed at a location where utilities were present underground (water/sewer) and overhead (power lines). Roux proposes to move the GW-4 cluser 18' to the west (located 10' from nearest overhead power line) and also shift GW-8 cluster 11' to the west as well to achieve spatial distribution, pending acceptance from NYSDEC.
- To further investigate the metal pipe found in the southeast corner of the building, Roux proposes to install an additional sub-slab vapor pin near this pipe and collect an additional soil vapor sample (SSSV-5) pending acceptance from NYSDEC.

Upcoming work activities:

- Roux will continue with RIWP field implementation.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/09/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy, 61 F, H: 85% P: 30.24" Hg, ENE Wind @ 10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**



Photo 1:
Looking southwest, view of mark outs of the water and sanitary lines running from the street into the building.



Photo 2:
Photo in the southeast corner of the building where a metal pipe was found extending from the bottom of brick wall for approx. 4 feet. Roux proposes a soil vapor sample be collected adjacent to pipe.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/09/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy, 61 F, H: 85% P: 30.24" Hg, ENE Wind @ 10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**

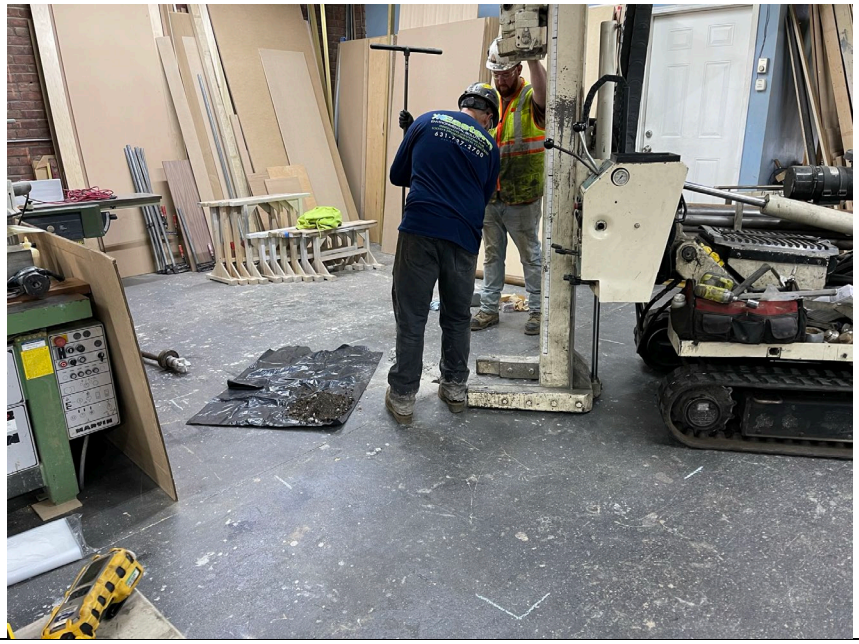


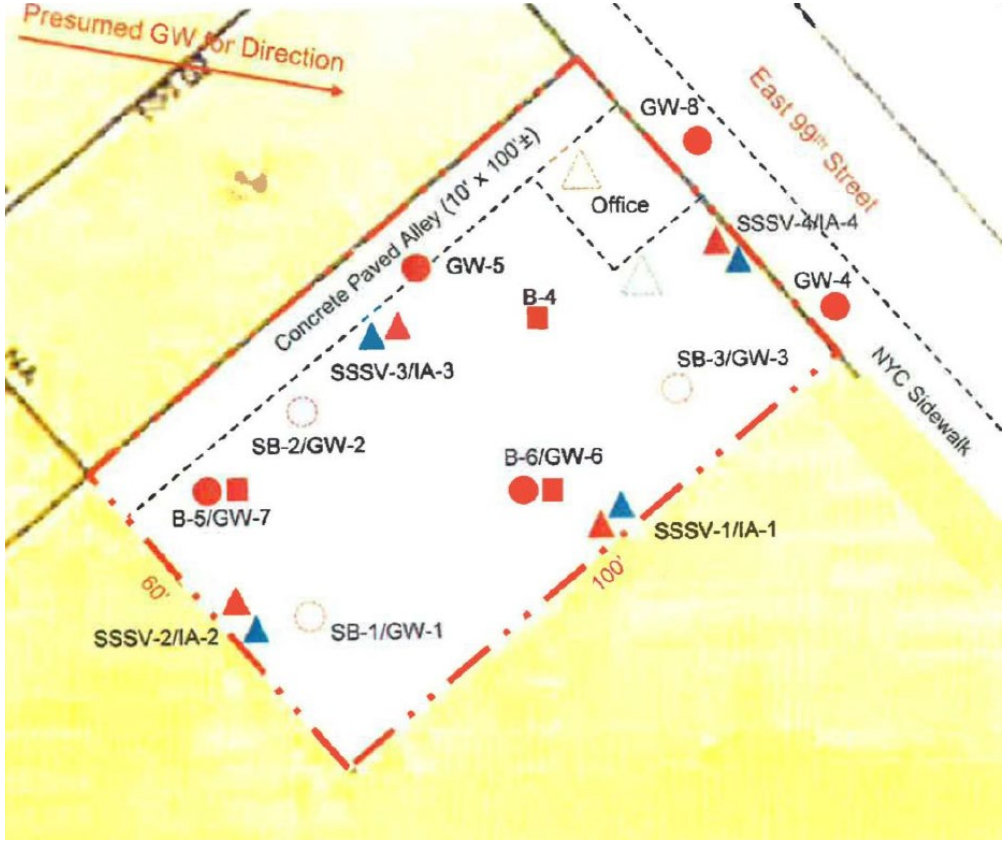
Photo 3:
Photo during utility clearance activities for soil boring B-4.



Photo 4:
Photo showing finished manhole cover for GW-6 cluster.

Submitted By: **Levi Curnutte** **Of Roux**	

Site Map



Submitted By: **Levi Curnutte** **Of Roux**	

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Dust

Project:	458 E 99th Street
Project Number:	3782.0001Y000
Project Manager:	Levi Curnutte
Location:	458 E 99th Street. Brooklyn
Date:	10/9/2021

Station	
Time	**15-min Avg. (mg/m^3)**
8:59 AM	0.045
9:14 AM	0.046
9:29 AM	0.076
9:44 AM	0.057
9:59 AM	0.061
10:14 AM	0.039
10:29 AM	0.041
10:44 AM	0.045
10:59 AM	0.057
11:14 AM	0.034
11:29 AM	0.039
11:44 AM	-0.031
11:59 AM	-0.114
12:14 PM	-0.114
12:29 PM	-0.129
12:44 PM	-0.121
12:59 PM	-0.124
1:14 PM	0.017
1:29 PM	0.016
1:44 PM	0.017
1:59 PM	0.017
2:14 PM	0.015
2:29 PM	0.017
2:44 PM	0.022

mg/m^3 - milligrams per cubic meter

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - VOC

Project: 458 E 99th Street
Project Number: 3782.0001Y000
Project Manager: Levi Curnutte
Location: 458 E 99th Street. Brooklyn
Date: 10/9/2021

Statio	
Time	**15-min Avg. (PPM)**
9:02 AM	0.0
9:17 AM	0.0
9:32 AM	0.0
9:47 AM	0.0
10:02 AM	0.0
10:17 AM	0.0
10:32 AM	0.0
10:47 AM	0.0
11:02 AM	0.0
11:17 AM	0.0
11:32 AM	0.0
11:47 AM	0.0
12:02 PM	0.0
12:17 PM	0.0
12:32 PM	0.0
12:47 PM	0.0
1:02 PM	0.0
1:17 PM	0.0
1:32 PM	0.0
1:47 PM	0.0
2:02 PM	0.0
2:17 PM	0.0
2:32 PM	0.0
2:47 PM	0.0

VOC - Volatile Organic Compound
PPM - parts per million

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Meter Locations

Project:	458 E 99th Street
Project Number:	3782.0001Y000
Project Manager:	Levi Curnutte
Location:	458 E 99th Street. Brooklyn
Date:	10/9/2021
Times:	8:45 to 14:55

Wind Direction
(ENE @ 10 mph)



Notes: CAMP - Community Air Monitoring Program

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/10/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 67 F, H: 86% P: 30.22" Hg, ENE Wind @ 14 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Eastern Environmental Solutions: Pat Slavin and Nick Turro Equipment: Geoprobe 6610	Roux Environmental Engineering and Geology, D.P.C. Matthew Mueller, Field Manager

GENERAL COMMENTS:

Roux Environmental Engineering and Geology, D.P.C. (Roux) was onsite to perform the NYSDEC-approved Remedial Investigation Work Plan (RIWP) field implementation.

RI Activities performed:

- Roux and Eastern Environmental completed drilling work at B-5/GW-7D. The boring was advanced to approx. 5' bls using hand tools for utility clearance prior to drilling. Drilling was completed to 25' bls and a permanent monitoring well was installed (screen at 15-25' bls).
- Roux and Eastern Environmental began utility clearance for monitoring well cluster GW-5 and advanced approximately 1' bls. The work day ended and the boring was covered with poly sheeting (and weighed down) and the boring will be completed next Saturday, October 16.
- Sub-slab soil vapor pins were installed using hand tools for locations SSSV-1, SSSV-2, SSSV-3, and SSSV-4.

Sampling performed:

- Roux collected and submitted to the laboratory the following soil samples: B-5 (0.5-2.5)/B-5 (0.5-2.5)_P, B-5 (10-12)/B-5 (10-12)_P, B-5 (23-25)/B-5 (23-25)_P, and associated QA/QC samples for the analysis listed in the approved RIWP.

CAMP Performed:

- CAMP was performed from 7:50 AM to 12:00 PM during indoor work. No exceedances occurred. CAMP was not performed during outdoor work due to rain. Conditions were wet and there was no fugitive dust observed to be traveling offsite.

Other Relevant Comments or Issues:

- SSSV-3 was moved approximately 5' to the north of where shown on Figure 6 of the RIWP. The original location was located on a concrete ramp entrance/exit and was relocated to the nearest location off of the ramp.

Upcoming work activities:

- Roux will continue with RIWP field implementation on Saturday, October 16.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/10/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 67 F, H: 86% P: 30.22" Hg, ENE Wind @ 14 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**

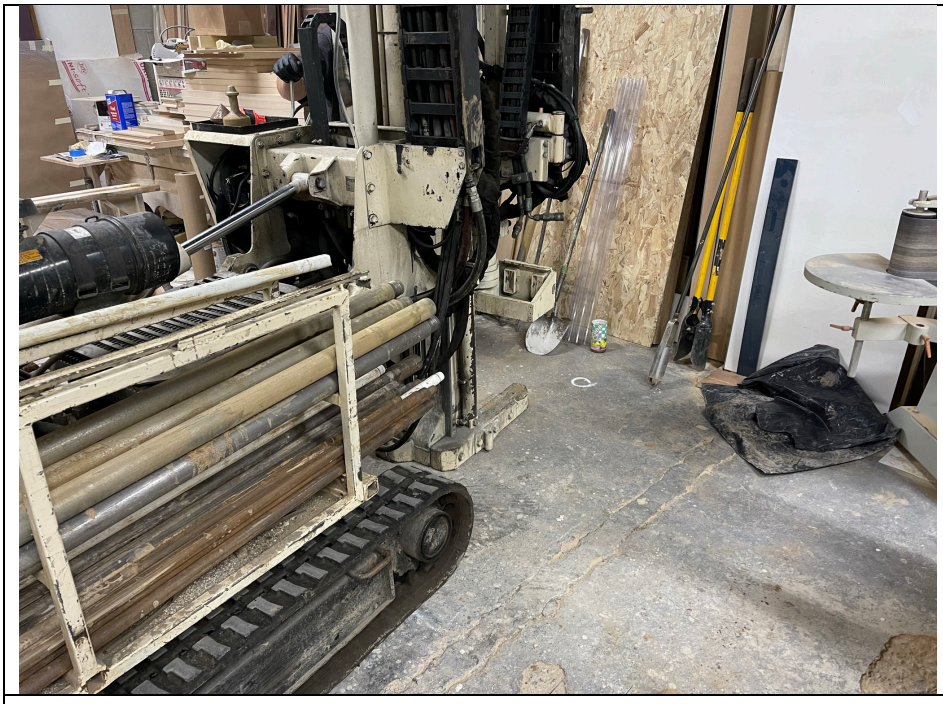


Photo 1:
Looking west, view of mobilization for installation of B-5/GW-7D.

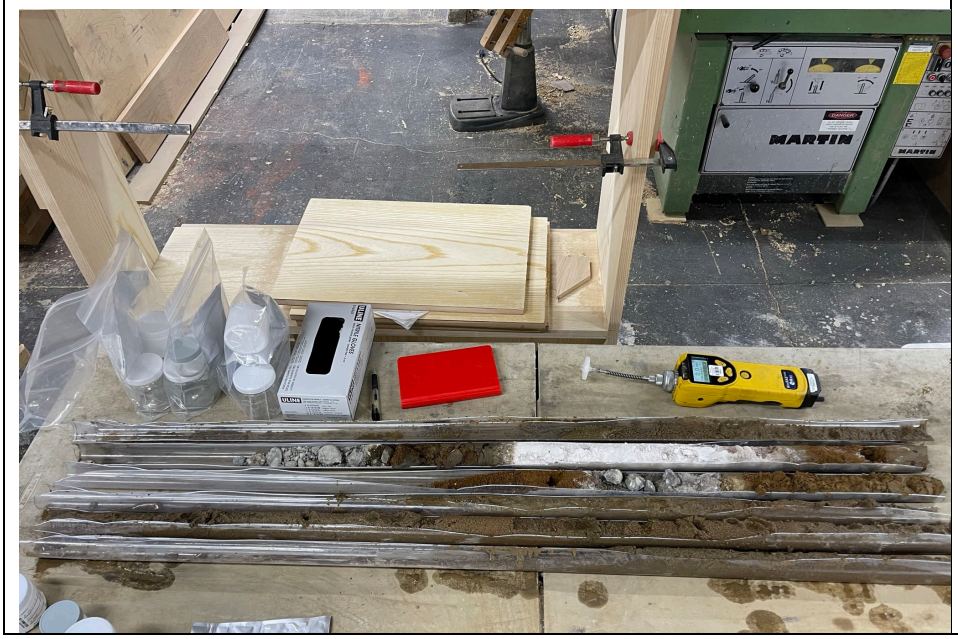


Photo 2:
Photo of soil cores for B-5/GW-7D.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Matthew Mueller**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/10/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 67 F, H: 86% P: 30.22" Hg, ENE Wind @ 14 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:30 am – 15:30 pm**



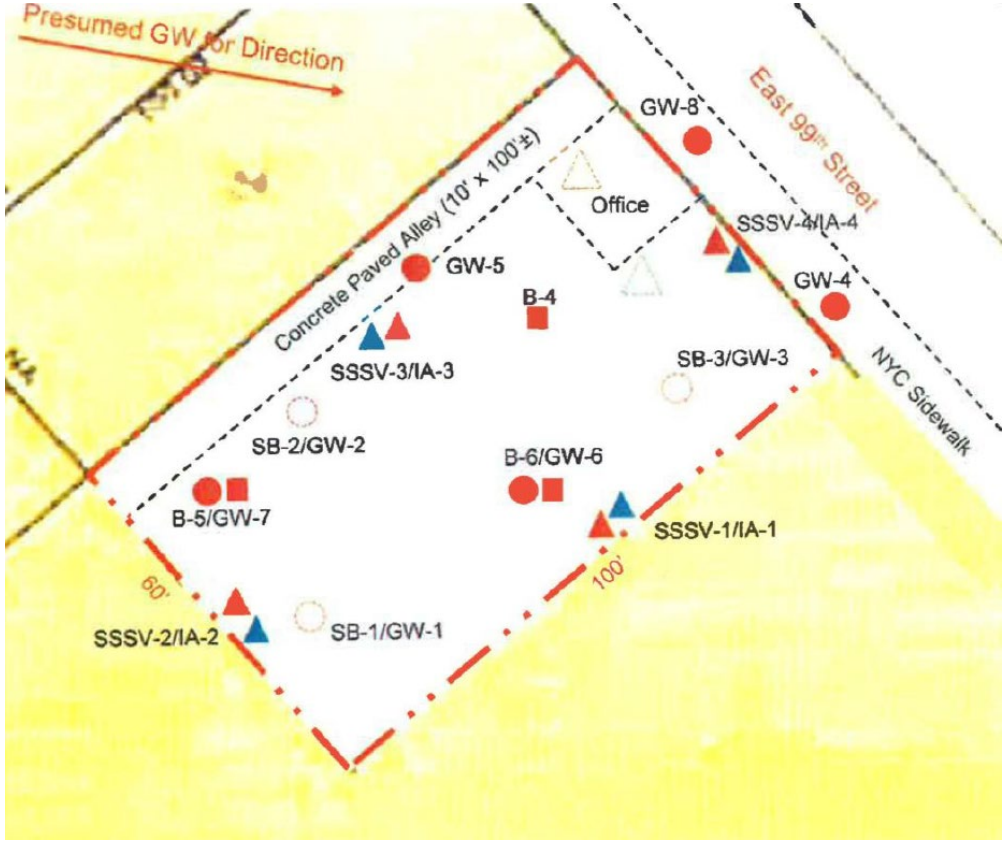
Photo 3:
Photo showing SSSV-3 after installation was complete (to north of the entrance ramp).



Photo 4:
View during concrete removal at GW-5 cluster

Submitted By: **Levi Curnutte** **Of Roux**	

Site Map



Submitted By: **Levi Curnutte** **Of Roux**	

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Dust

Project:	458 E 99th Street
Project Number:	3782.0001Y000
Project Manager:	Levi Curnutte
Location:	458 E 99th Street. Brooklyn
Date:	10/10/2021

Station	
Time	**15-min Avg. (mg/m^3)**
8:04 AM	0.023
8:19 AM	0.033
8:34 AM	0.045
8:49 AM	0.032
9:04 AM	0.051
9:19 AM	0.048
9:34 AM	0.028
9:49 AM	0.023
10:04 AM	0.028
10:19 AM	0.038
10:34 AM	0.026
10:49 AM	0.064
11:04 AM	0.054
11:19 AM	0.020
11:34 AM	0.036
11:49 AM	0.032

mg/m^3 - milligrams per cubic meter

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - VOC

Project: 458 E 99th Street
Project Number: 3782.0001Y000
Project Manager: Levi Curnutte
Location: 458 E 99th Street. Brooklyn
Date: 10/10/2021

Station	
Time	**15-min Avg. (PPM)**
8:04 AM	0.0
8:19 AM	0.0
8:34 AM	0.0
8:49 AM	0.0
9:04 AM	0.0
9:19 AM	0.0
9:34 AM	0.0
9:49 AM	0.0
10:04 AM	0.0
10:19 AM	0.0
10:34 AM	0.0
10:49 AM	0.0
11:04 AM	0.0
11:19 AM	0.0
11:34 AM	0.0
11:49 AM	0.0

VOC - Volatile Organic Compound
PPM - parts per million

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Meter Locations

Project:	458 E 99th Street
Project Number:	3782.0001Y000
Project Manager:	Levi Curnutte
Location:	458 E 99th Street. Brooklyn
Date:	10/10/2021
Times:	7:50 to 12:00

Wind Direction
(ENE @ 14 mph)



Notes: CAMP - Community Air Monitoring Program

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Natalia Barragan**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/16/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 65 F, H: 76% P: 29.78" Hg, S Wind @ 1020 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:15 am – 18:15 pm**

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Eastern Environmental Solutions: Michael and Nick Turro Equipment: Geoprobe 7720	Roux Environmental Engineering and Geology, D.P.C. Levi Curnutte, Project Manager Natalia Barragan, Field Manager

GENERAL COMMENTS:

Roux Environmental Engineering and Geology, D.P.C. (Roux) was onsite to perform the NYSDEC-approved Remedial Investigation Work Plan (RIWP) field implementation.

RI Activities performed:

- Roux and Eastern Environmental completed drilling work at GW-5D, GW-5S, GW-8D, GW-8S, GW-4D, and GW-4S. Borings were advanced to approx. 5' below land surface (bls) using hand tools for utility clearance prior to drilling. Three borings (GW-4S, -5S, -8S) were advanced to 15' bls to install shallow permanent groundwater monitoring wells (screen at 5-15' bls) and three borings (GW-4D, -5D, -8D) to 25' bls to install deep permanent groundwater monitoring wells (screen at 15-25'). Monitoring wells were developed after installation.

Sampling performed:

- No sampling was performed.

CAMP Performed:

- CAMP was performed from 8:45 AM to 16:10 PM during the drilling work. No exceedances occurred. CAMP was stopped after intrusive work was complete. At 1:00 PM the upwind station was moved as the drilling work continued in the sidewalk offsite.

Other Relevant Comments or Issues:

- None.

Upcoming work activities:

- The drilling portion of the RIWP is complete. Roux will continue with RIWP field implementation and perform soil vapor and groundwater sampling on Sunday, October 17th.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Natalia Barragan**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/16/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 65 F, H: 76% P: 29.78" Hg, S Wind @ 1020 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:15 am – 18:15 pm**



Photo 1:
Looking West, GW-5D and GW-5S were installed in the alley located on the east side of the site.



Photo 2:
Drilling GW-8D and GW-8S on the sidewalk on E99th St. looking East.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Natalia Barragan**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/16/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Cloudy/Rain, 65 F, H: 76% P: 29.78" Hg, S Wind @ 1020 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:15 am – 18:15 pm**



Photo 3:
Looking East on E99th, GW-4D and GW-4S were installed on the sidewalk adjacent to the site.



Photo 4:
GW-4 shallow and deep soil lithology.

Submitted By: **Levi Curnutte** **Of Roux**	

Site Map (updated 10-13-2021)



Submitted By: **Levi Curnutte** **Of Roux**	

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Dust

Project: 458 E 99th Street
Project Number: 3782.0001Y000
Project Manager: Levi Curnutte
Location: 458 E 99th Street. Brooklyn
Date: 10/16/2021

Downwind Station		Upwind Station		15-min Average (Corrected for Background)
Time	15-min Avg. (mg/m^3)	Time	15-min Avg. (mg/m^3)	
9:03 AM	0.019	9:01 AM	0.045	**-0.026**
9:18 AM	0.016	9:16 AM	0.049	**-0.033**
9:33 AM	0.018	9:31 AM	0.058	**-0.040**
9:48 AM	0.020	9:46 AM	0.061	**-0.041**
10:03 AM	0.020	10:01 AM	0.062	**-0.042**
10:18 AM	0.018	10:16 AM	0.061	**-0.043**
10:33 AM	0.017	10:31 AM	0.056	**-0.039**
10:48 AM	0.017	10:46 AM	0.054	**-0.037**
11:03 AM	0.103	11:01 AM	0.049	**0.054**
11:18 AM	0.136	11:16 AM	0.053	**0.083**
11:33 AM	0.024	11:31 AM	0.058	**-0.034**
11:48 AM	0.117	11:46 AM	0.059	**0.058**
12:03 PM	0.091	12:01 PM	0.059	**0.032**
12:18 PM	0.018	12:16 PM	0.056	**-0.038**
12:33 PM	0.030	12:31 PM	0.055	**-0.025**
12:48 PM	0.023	12:46 PM	0.050	**-0.027**
1:03 PM	0.026	1:01 PM	0.000	**0.026**
1:33 PM	0.023	1:31 PM	NM	**0.023**
1:48 PM	0.025	1:46 PM	NM	**0.025**
2:03 PM	0.023	2:01 PM	NM	**0.023**
2:18 PM	0.026	2:16 PM	NM	**0.026**
2:33 PM	0.024	2:31 PM	NM	**0.024**
2:48 PM	0.023	2:46 PM	NM	**0.023**
3:03 PM	0.025	3:01 PM	NM	**0.025**
3:18 PM	0.024	3:16 PM	NM	**0.024**
3:33 PM	0.024	3:31 PM	NM	**0.024**
3:48 PM	0.027	3:46 PM	NM	**0.027**
4:03 PM	0.023	4:01 PM	NM	**0.023**

NM - Not Measured (due to meter malfunction)
mg/m^3 - milligrams per cubic meter

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - VOC

Project: 458 E 99th Street
Project Number: 3782.0001Y000
Project Manager: Levi Curnutte
Location: 458 E 99th Street. Brooklyn
Date: 10/16/2021

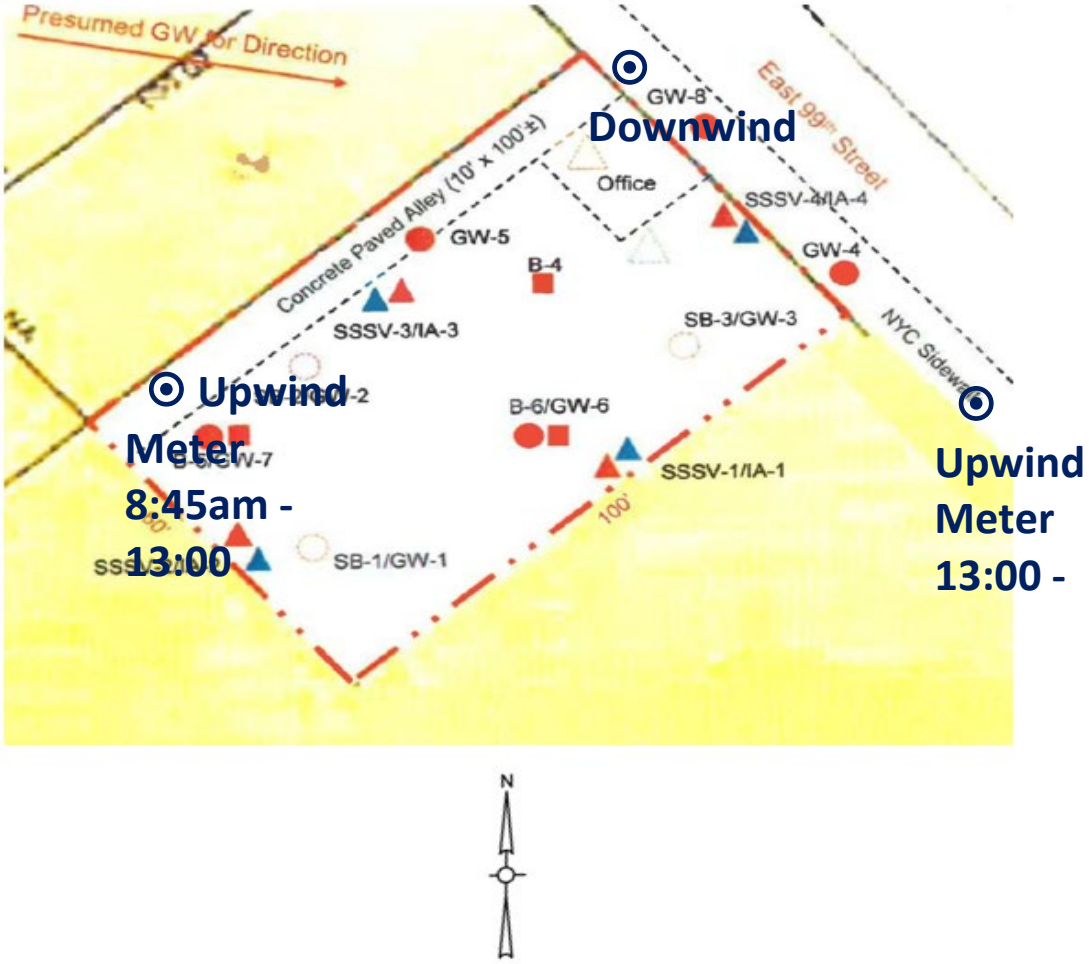
Downwind Station		Upwind Station		15-min Average (Corrected for Background)
Time	**15-min Avg. (PPM)**	**Time**	**15-min Avg. (PPM)**	
9:15 AM	0.2	9:17 AM	NM	**0.2**
9:30 AM	0.2	9:32 AM	0.1	**0.1**
9:45 AM	0.3	9:47 AM	0.1	**0.2**
10:00 AM	0.2	10:02 AM	0.1	**0.1**
10:15 AM	0.2	10:17 AM	0.1	**0.1**
10:30 AM	0.2	10:32 AM	0.1	**0.1**
10:45 AM	0.1	10:47 AM	0.1	**0.0**
11:00 AM	0.2	11:02 AM	0.1	**0.1**
11:15 AM	0.9	11:17 AM	0.1	**0.8**
11:30 AM	0.2	11:32 AM	0.1	**0.1**
11:45 AM	0.2	11:47 AM	0.1	**0.1**
12:00 PM	0.2	12:02 PM	0.1	**0.1**
12:15 PM	0.2	12:17 PM	0.1	**0.1**
12:30 PM	0.2	12:32 PM	0.1	**0.1**
12:45 PM	0.2	12:47 PM	0.1	**0.1**
1:00 PM	0.2	1:02 PM	0.1	**0.1**
1:15 PM	0.2	1:17 PM	0.1	**0.1**
1:30 PM	0.2	1:32 PM	0.1	**0.1**
2:45 PM	0.3	2:47 PM	0.1	**0.2**
3:00 PM	0.2	3:02 PM	0.1	**0.1**
3:15 PM	0.2	3:17 PM	0.1	**0.1**
3:30 PM	0.3	3:32 PM	0.1	**0.2**
3:45 PM	0.3	3:47 PM	0.1	**0.2**
4:00 PM	0.5	4:02 PM	0.1	**0.4**

VOC - Volatile Organic Compound
PPM - parts per million

Roux Environmental Engineering and Geology, D.P.C.
Community Air Monitoring Program - Meter Locations

Project:	458 E 99th Street
Project Number:	3782.0001Y000
Project Manager:	Levi Curnutte
Location:	458 E 99th Street. Brooklyn
Date:	10/16/2021
Times:	8:45 to 16:10

Wind Direction
(S @ 10-20 mph)



Notes: CAMP - Community Air Monitoring Program

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Daniel Miserendino**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/17/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Clear, 50 F, H: 50% P: 29.86" Hg, NW Wind @ 10-20 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**6:45 am – 15:30 pm**

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
	Roux Environmental Engineering and Geology, D.P.C. Daniel Miserendino, Field Manager

GENERAL COMMENTS:

Roux Environmental Engineering and Geology, D.P.C. (Roux) was onsite to perform the NYSDEC-approved Remedial Investigation Work Plan (RIWP) field implementation.

RI Activities performed:

- Roux continued with RIWP field implementation by completing the soil vapor intrusion (SVI) assessment sampling and sampling of the four indoor permanent monitoring wells.

Sampling performed:

- Roux collected and submitted to the laboratory the following groundwater samples: GW-6S/GW-6S_P, GW-6D/GW-6D_P, GW-7S/GW-7S_P, and GW-7D/GW-7D_P, and associated QA/QC samples for the analysis listed in the approved RIWP.
- Roux collected and submitted to the laboratory the following air samples: SSSV-1 through SSSV-5, IA-1 through IA-5, and AA-1, and associated QA/QC samples for the analysis listed in the approved RIWP.

CAMP Performed:

- CAMP was not performed; no intrusive work was performed today.

Other Relevant Comments or Issues:

- None.

Upcoming work activities:

- Roux will continue with (and potentially complete) RIWP field implementation on Saturday, October 26th.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Daniel Miserendino**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/17/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Clear, 50 F, H: 50% P: 29.86" Hg, NW Wind @ 10-20 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**6:45 am – 15:30 pm**



Photo 1:
Looking east, representative photo of SSSV-1 (protected with cone) and GW-6S/GW-6D prior to sampling.



Photo 2:
Representative soil vapor sampling setup; SSSV-3 (duplicate included) and co-located IA-3 sample are in view.

Submitted By: **Levi Curnutte**
Of Roux

Site Map (updated 10-13-2021)



Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Lauren Jenkins**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/23/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Clear, 60 F, H: 64% P: 29.99" Hg, NW Wind @ 5-10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:00 am – 15:00 pm**

CONTRACTOR AND EQUIPMENT:	**PERSONNEL PRESENT AT SITE AND AFFILIATION:**
Fehringer Surveying, P.C.	Roux Environmental Engineering and Geology, D.P.C. Levi Curnutte, Project Manager Lauren Jenkins, Field Manager Jacqueline Carames, Field Manager

GENERAL COMMENTS:

Roux Environmental Engineering and Geology, D.P.C. (Roux) was onsite to perform the NYSDEC-approved Remedial Investigation Work Plan (RIWP) field implementation.

RI Activities performed:

- Roux continued with RIWP field implementation by completing the remaining groundwater sampling at the six outdoor permanent monitoring wells GW-4S, GW-4D, GW-5S, GW-5D, GW-8S, and GW-8D.
- Fehringer Surveying was onsite to perform location and elevation survey of the permanent monitoring wells.
- Roux secured the work area and demobilized upon completion of the RI field implementation activities.

Sampling performed:

- Roux collected and submitted to the laboratory the following groundwater samples: GW-4S/GW-4S_P, GW-4D/GW-4D_P, GW-5S/GW-5S_P, GW-5D/GW-5D_P, GW-8S/GW-8S_P, GW-8D/GW-8D_P, and associated QA/QC samples for the analysis listed in the approved RIWP.

CAMP Performed:

- CAMP was not performed; no intrusive work was performed today.

Other Relevant Comments or Issues:

- None.

Upcoming work activities:

- Roux will discuss next steps of the project with the Volunteer and contact NYSDEC with a project outlook.

Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

DAILY SITE INSPECTION/FIELD ACTIVITY REPORT

BCP Site No.:	**C224254**	**FIELD REP:**	**Lauren Jenkins**
PROJECT NO.:	**3782.0001Y000**	**DATE:**	**10/23/2021**
PROJECT:	**458 East 99th Street**	**WEATHER:**	**Clear, 60 F, H: 64% P: 29.99" Hg, NW Wind @ 5-10 mph**
CLIENT:	**458 East Owners, LLC**	**TIME:**	**7:00 am – 15:00 pm**



Photo 1:
Looking east, representative photo of offsite sidewalk after demobilization is complete.



Photo 2:
Looking south, photo of the west alley while securing the site; drums containing IDW are secured and in view.

Submitted By: **Levi Curnutte** **Of Roux**	

Site Map (updated 10-13-2021)



Submitted By: **Levi Curnutte** **Of Roux**	

ROUX

PROGRESS REPORT #3

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: November 1 through November 30, 2021

Report Date: December 13, 2021

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux continued to compile data and supporting tables and figures for presentation to NYSDEC/NYS Department of Health (NYSDOH).

II. BCP Activities Planned for the Next Reporting Period (December 1 through December 31, 2021)

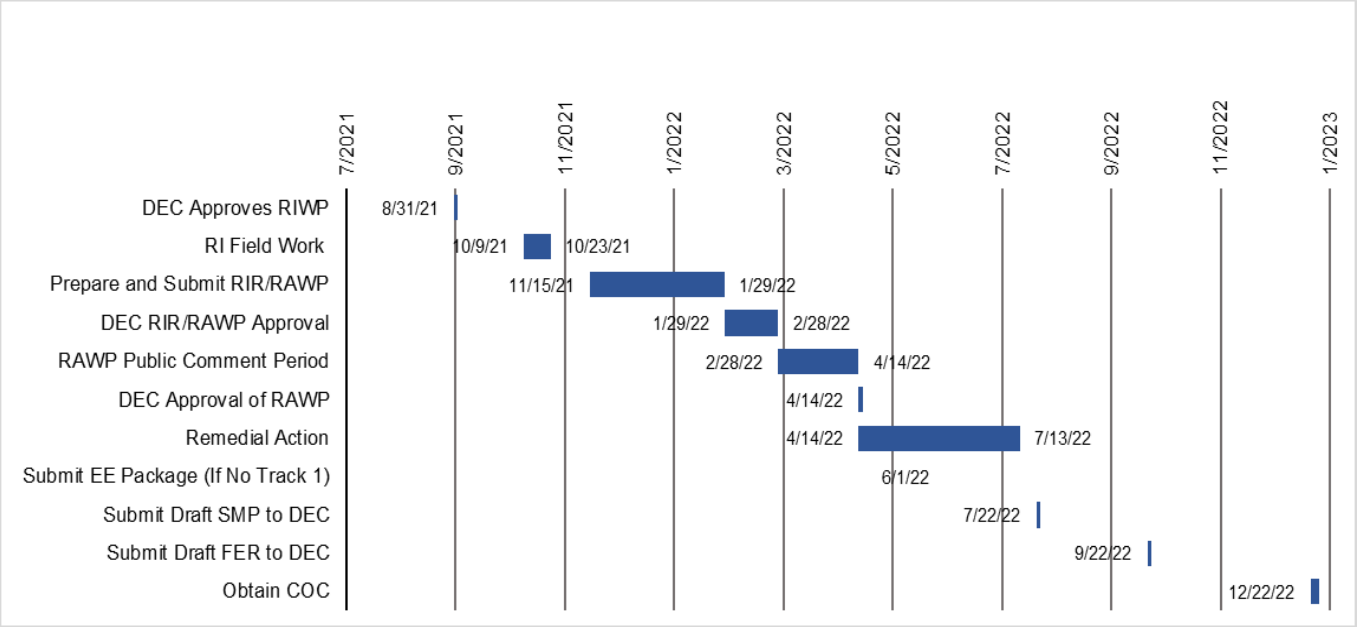
The following BCP Activities will be performed in the next reporting period:

- Roux will submit RI data tables and figures to prepare for submission to NYSDEC/NYSDOH in preparation for a conference call to discuss the available environmental data and scoping of the remedial activities that may be required for the Site.

III. Schedule and Changes to Scope of Work or Schedule

An updated summary of the current milestones completed to date and projected schedule milestones is below. This schedule will be updated as the project progresses.

3782.0001Y108/PR



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

There were no deliverables submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and there are no anticipated delays for future BCP activities.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #4

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: December 1 through December 31, 2021

Report Date: January 11, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux submitted draft data and supporting tables and figures in preparation for a conference call with NYSDEC/NYS Department of Health (NYSDOH) to discuss Remedial Investigation (RI) data and Remedial Action Work Plan (RAWP) scoping.

II. BCP Activities Planned for the Next Reporting Period (January 1 through January 31, 2021)

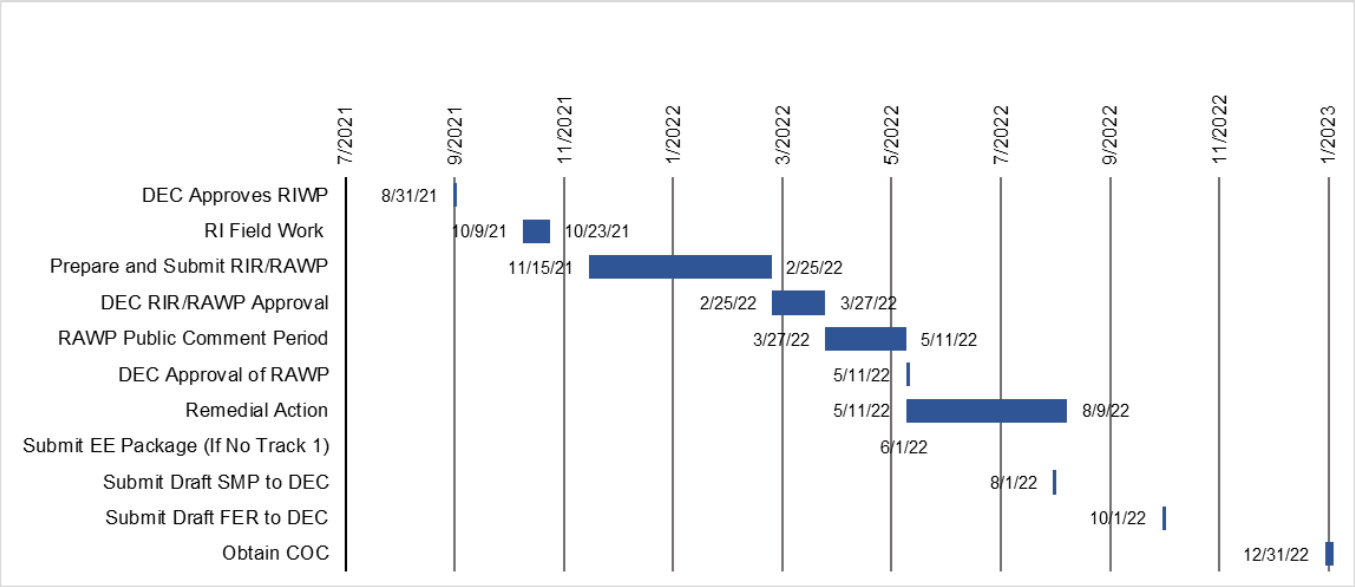
The following BCP Activities will be performed in the next reporting period:

- Roux will meet with NYSDEC/NYSDOH to discuss the available environmental data and scoping of the remedial activities that may be required for the Site.

III. Schedule and Changes to Scope of Work or Schedule

An updated summary of the current milestones completed to date and projected schedule milestones is below. This schedule will be updated as the project progresses.

3782.0001Y109/PR



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

Draft RI data, tables, and figures were submitted to NYSDEC/NYSDOH during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and there are no anticipated delays for future BCP activities.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #5

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: January 1 through January 31, 2022

Report Date: February 10, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux and NYSDEC/NYSDOH held a remote meeting to review Remedial Investigation (RI) data and Remedial Action Work Plan (RAWP) scoping. NYSDEC/NYS Department of Health (NYSDOH) verbally confirmed that the RI investigation performed was sufficient to characterize the Site and is complete.
- As a result of this meeting, Roux is communicating with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps and reporting once they are informed.

II. BCP Activities Planned for the Next Reporting Period (February 1 through February 28, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to communicate with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps.

III. Schedule and Changes to Scope of Work or Schedule

An updated BCP schedule will be provided during the next reporting period.

IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables or other data was submitted during the reporting period.

3782.0001Y110/PR

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and an updated schedule will be provided to NYSDEC.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #6

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: February 1 through February 28, 2022

Report Date: March 14, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux is communicating with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps and reporting once they are informed.

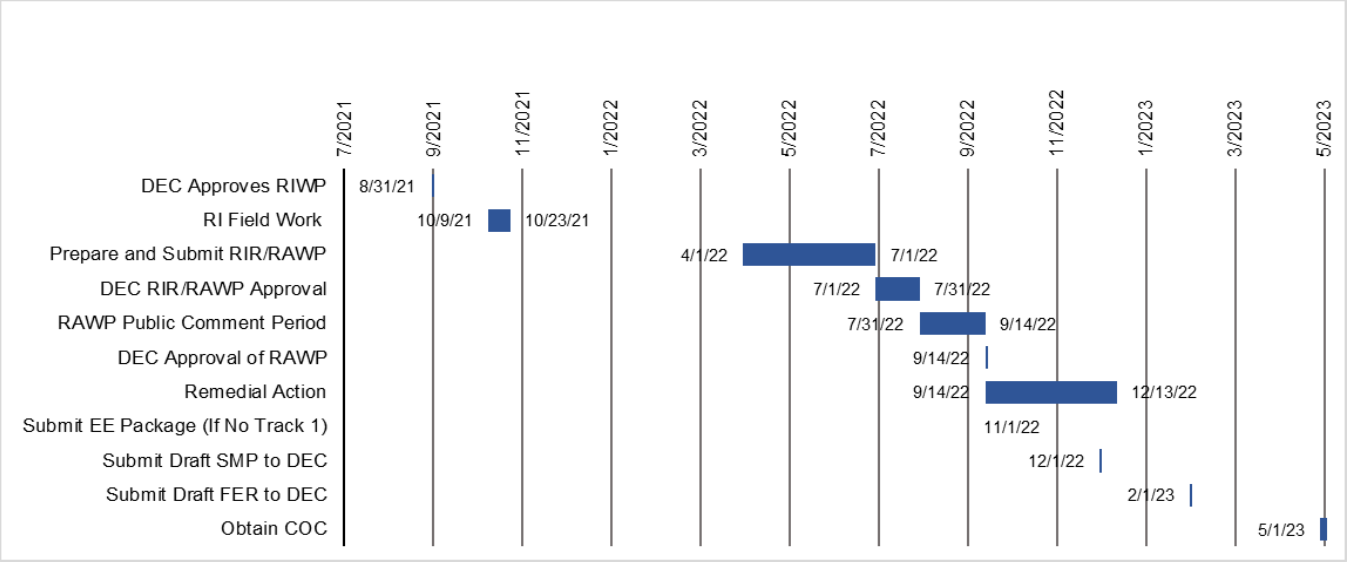
II. BCP Activities Planned for the Next Reporting Period (March 1 through March 31, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to communicate with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps.

III. Schedule and Changes to Scope of Work or Schedule

Below is a prospective schedule that will be dependent upon Volunteer approval of the BCP work resuming.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables or other data was submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #7

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: March 1 through March 31, 2022

Report Date: April 13, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux is communicating with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps and reporting once they are informed.

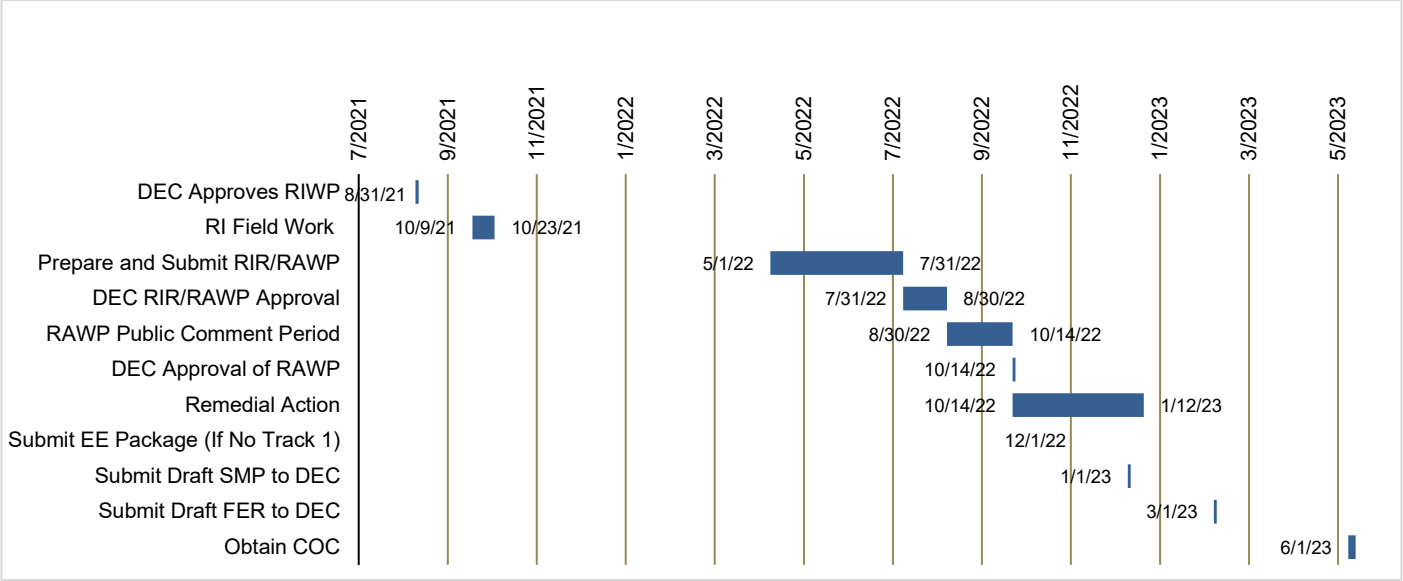
II. BCP Activities Planned for the Next Reporting Period (April 1 through April 30, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to communicate with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps.

III. Schedule and Changes to Scope of Work or Schedule

Below is a prospective schedule that will be dependent upon Volunteer approval of the BCP work resuming.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables or other data was submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #8

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: April 1 through April 30, 2022

Report Date: May 6, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux is communicating with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps and reporting once they are informed.

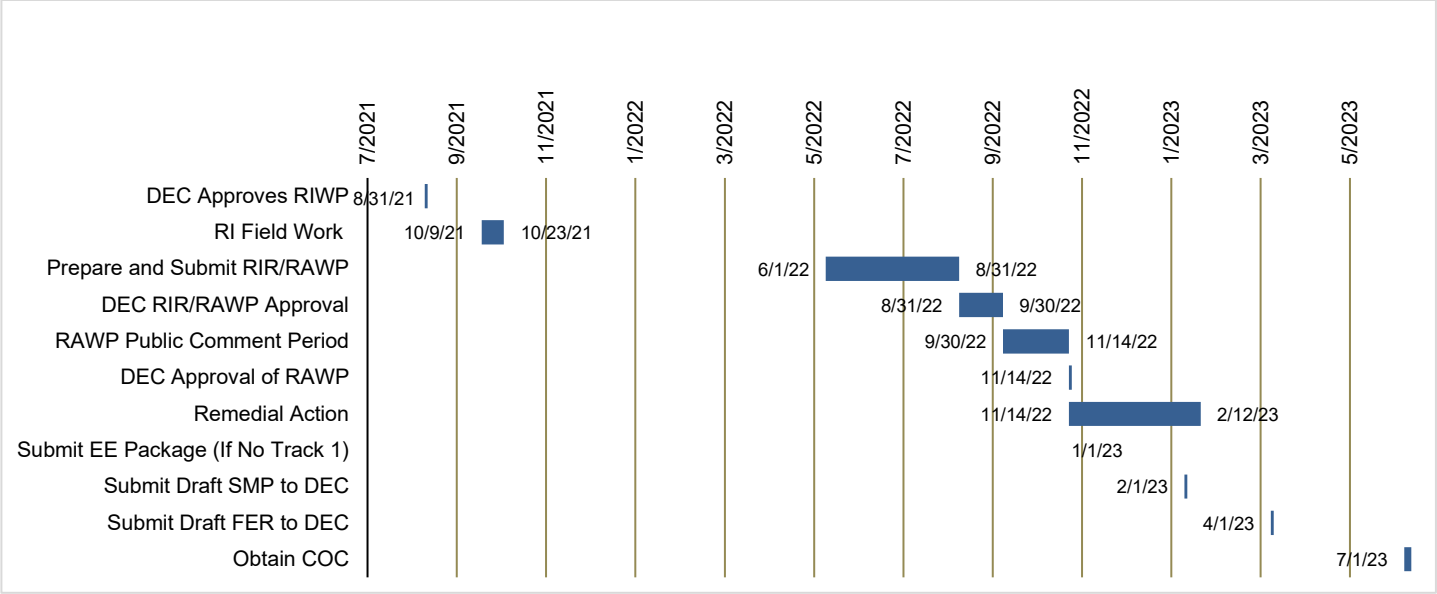
II. BCP Activities Planned for the Next Reporting Period (May 1 through May 31, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to communicate with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps.

III. Schedule and Changes to Scope of Work or Schedule

Below is a prospective schedule that will be dependent upon Volunteer approval of the BCP work resuming.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables or other data was submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #9

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: May 1 through June 30, 2022

Report Date: July 14, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- Roux is communicating with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps and reporting once they are informed.

II. BCP Activities Planned for the Next Reporting Period (July 1 through July 31, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to communicate with the Volunteer to discuss the preferred pathway for progressing through the BCP and will provide NYSDEC with an updated timeline on next steps.

III. Schedule and Changes to Scope of Work or Schedule

An updated BCP schedule for project completion will be submitted after a path forward is decided by the Volunteer.

IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables or other data was submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #10

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: July 1 through August 31, 2022

Report Date: September 12, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- During July 2022, Roux was awaiting direction from the project team about the preferred pathway for progressing through the BCP.
- On August 2, 2022, NYSDEC issued an Opportunity to Cure (OTC). The OTC letter stated that progress in completed the Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) was necessary to remain in the BCP and that it should be submitted no later than 30 days from the date of the OTC letter.
- On September 1, 2022 (note: outside of the reporting period listed above), Roux and NYSDEC held a conference call. NYSDEC was informed that Roux had recently retained by the property owner/operator to continue to provide environmental consulting services for this Site. An extension of the deadline to submit the draft RIR/RAWP to NYSDEC by November 15, 2022, was also discussed on the conference call and the extension was verbally approved by NYSDEC.
- On September 6, 2022 (note: outside of the reporting period listed above), Roux issued a letter formally requesting to extend the deadline to submit the draft RIR/RAWP to NYSDEC to November 15, 2022. The letter is attached to this progress report. NYSDEC approved this extension via e-mail on September 8, 2022.

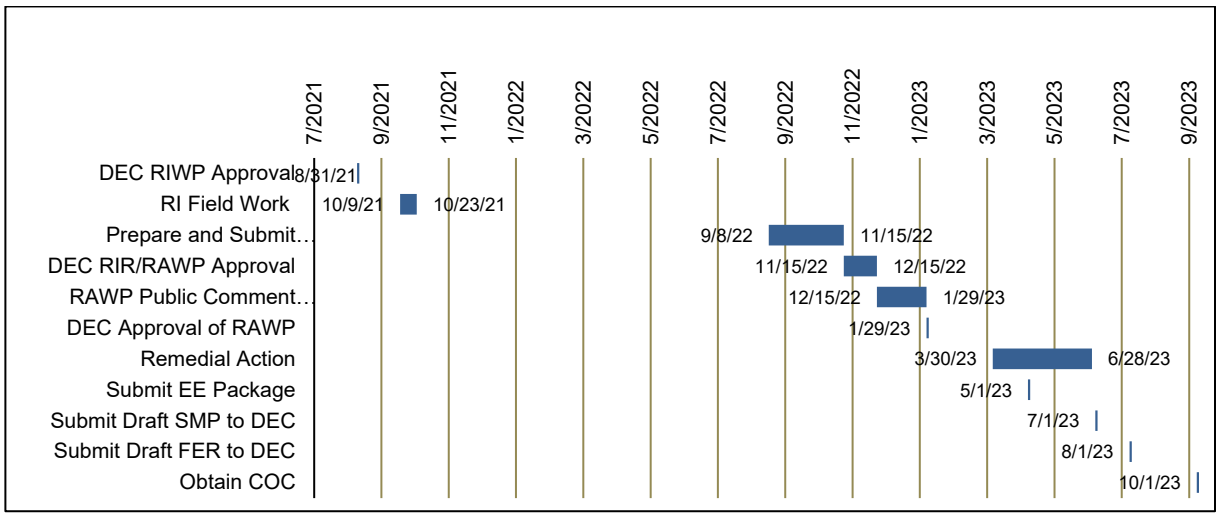
II. BCP Activities Planned for the Next Reporting Period (September 1 through September 30, 2022)

The following BCP Activities will be performed in the next reporting period:

- Roux will begin to compile the draft RIR/RAWP for submission to NYSDEC.

III. Schedule and Changes to Scope of Work or Schedule

The projected schedule is provided below. RAWP implementation will be subject to the lead time required to procure a blower fan for the sub-slab depressurization system/soil vapor extraction system (SSDS/SVES).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

On September 6, 2022 (note: outside of the reporting period), Roux issued a letter formally requesting to extend the deadline to submit the draft RIR/RAWP to NYSDEC to November 15, 2022 (note: this is outside of the reporting period listed above).

VI. Percentage of Work Completion and Any Delays

RI implementation is complete.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

September 6, 2022

Jane H. O'Connell, P.G.
Regional Remediation Engineer, Division of Environmental Remediation, NYSDEC
47-40 21st Street
Long Island City, New York

Re: Opportunity To Cure Letter (Site Code: C224254) – Response and Request to Extend Deadline

Dear Jane H. O'Connell:

Roux Environmental Engineering and Geology, D.P.C. (Roux) is submitting this letter to the New York State Department of Environmental Conservation (NYSDEC) on behalf of the 458 East 99th Street site Owner and Requestor to provide a response to the Opportunity To Cure (OTC) letter issued by NYSDEC to the Volunteer on August 2, 2022. The OTC letter stated that progress in completing the Remedial Investigation Report (RIR) and Remedial Action Work Plan (RAWP) was necessary to remain in the Brownfield Cleanup Program and that it should be submitted no later than 30 days from the date of the OTC letter. Roux has recently been retained by the property owner/operator to continue to provide environmental consulting services for this site and informed NYSDEC of this on a conference call held between NYSDEC and Roux on September 1, 2022. An extension of the deadline to submit the draft RIR/RAWP to NYSDEC by November 15, 2022, was also discussed on the conference call and the extension was verbally approved by NYSDEC. This letter serves as a formal written request to extend the deadline to submit the draft RIR/RAWP to NYSDEC to November 15, 2022.

Sincerely,

ROUX ENVIRONMENTAL ENGINEERING AND GEOLOGY, D.P.C.

Noelle M. Clarke, P.E.
Principal Engineer

Joseph Duminuco, P.G.
Executive Vice President/Principal Hydrogeologist

cc: G. Burke, C. Maycock, M. Yau, S. Bollers, J. Simpson – NYSDEC
S. McLaughlin, R. Ockerby, S. Rushford – NYSDOH
W. Michelistch – Euro Woodworking, Inc.
W. Bell – 458 East 99th Street LLC

3782.0001Y116/L

ROUX

PROGRESS REPORT #11

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: September 1 through September 30, 2022

Report Date: October 10, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

The following BCP activities occurred during the reporting period:

- On September 1, 2022, Roux and NYSDEC held a conference call. NYSDEC was informed that Roux had recently retained by the property owner/operator to continue to provide environmental consulting services for this Site. An extension of the deadline to submit the draft Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) to NYSDEC by November 15, 2022, was also discussed on the conference call and the extension was verbally approved by NYSDEC.
- On September 6, 2022, Roux issued a letter formally requesting to extend the deadline to submit the draft RIR/RAWP to NYSDEC to November 15, 2022. NYSDEC approved this extension via e-mail on September 8, 2022.
- Roux began to draft the RIR/RAWP.

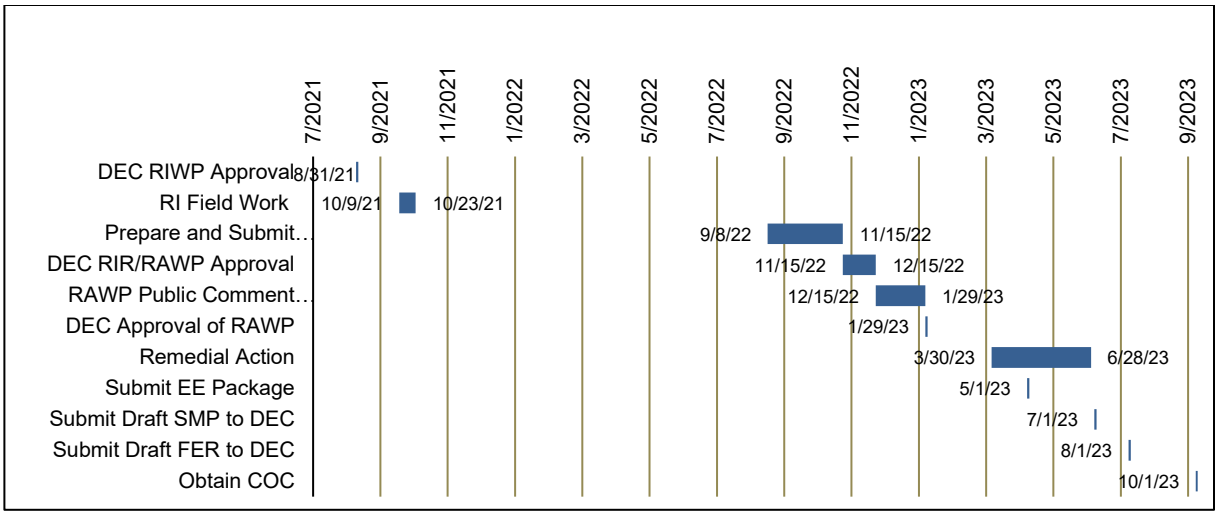
II. BCP Activities Planned for the Next Reporting Period

The following BCP Activities will be performed in the next reporting period:

- Roux will continue to compile the draft RIR/RAWP for submission to NYSDEC.

III. Schedule and Changes to Scope of Work or Schedule

The projected schedule is provided below. RAWP implementation will be subject to the lead time required to procure a blower fan for the sub-slab depressurization system/soil vapor extraction system (SSDS/SVES).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

On September 6, 2022, Roux issued a letter formally requesting to extend the deadline to submit the draft RIR/RAWP to NYSDEC to November 15, 2022. This letter was included in the August 2022 Progress Report #10 submission.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. Roux is drafting the RIR/RAWP.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #12

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: October 1 through October 31, 2022

Report Date: November 9, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

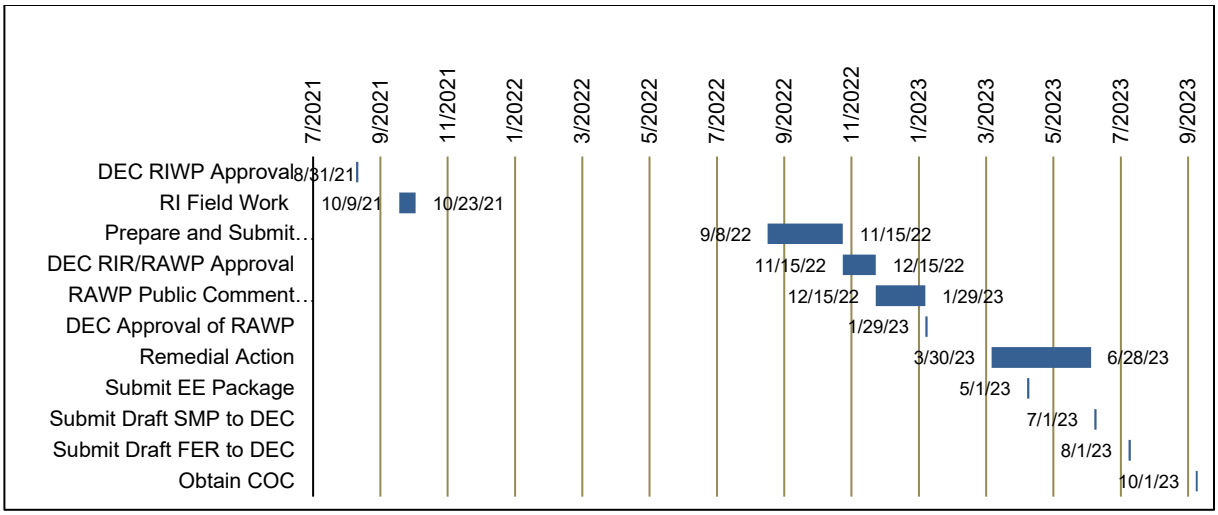
Roux is continuing to compile the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) for submission to New York State Department of Environmental Conservation (NYSDEC) and NYS Department of Health (NYSDOH).

II. BCP Activities Planned for the Next Reporting Period

Roux will continue to compile the draft RIR/RAWP for submission to NYSDEC/NYSDOH.

III. Schedule and Changes to Scope of Work or Schedule

The projected schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the sub-slab depressurization system/soil vapor extraction system (SSDS/SVES).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. Roux is drafting the RIR/RAWP.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plan Actions are anticipated for the next reporting period.

ROUX

PROGRESS REPORT #13

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: November 1 through November 30, 2022

Report Date: December 9, 2022

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

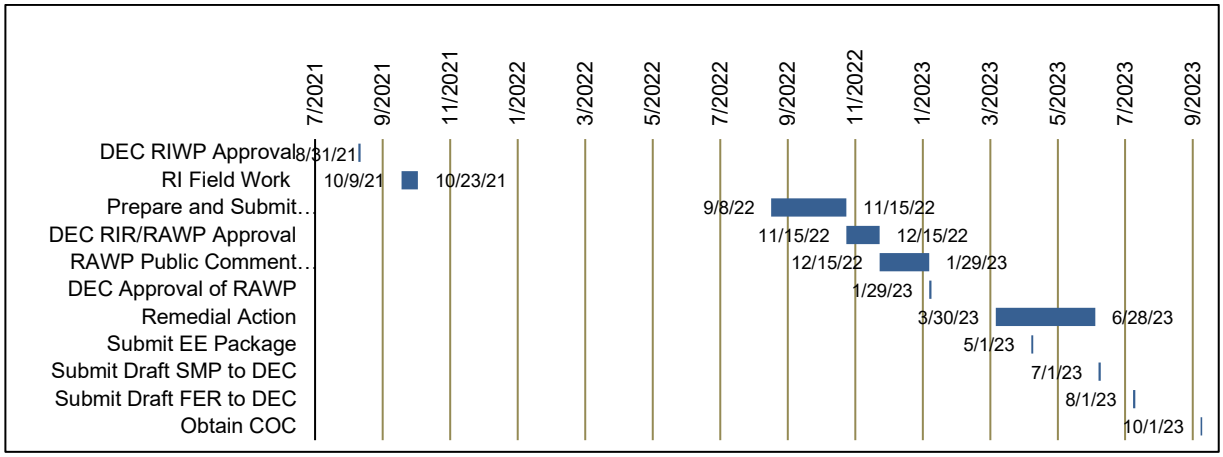
Roux continued to compile the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) and submitted the draft RIR/RAWP to NYSDEC and NYS Department of Health (NYSDOH) on November 15, 2022.

II. BCP Activities Planned for the Next Reporting Period

Roux submitted the draft RIR/RAWP to NYSDEC/NYSDOH on November 15, 2022.

III. Schedule and Changes to Scope of Work or Schedule

The projected schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

Roux submitted the draft RIR/RAWP to NYSDEC/NYSDOH on November 15, 2022.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. The draft RIR/RAWP is under review. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

Pending RIR/RAWP review, the public review/comment period for the RIR/RAWP may commence during the next reporting period.

ROUX

PROGRESS REPORT #14

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: December 1 through December 31, 2022

Report Date: January 10, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site). 458 East Owners, LLC is the BCP Volunteer.

I. BCP Activities Completed during the Reporting Period

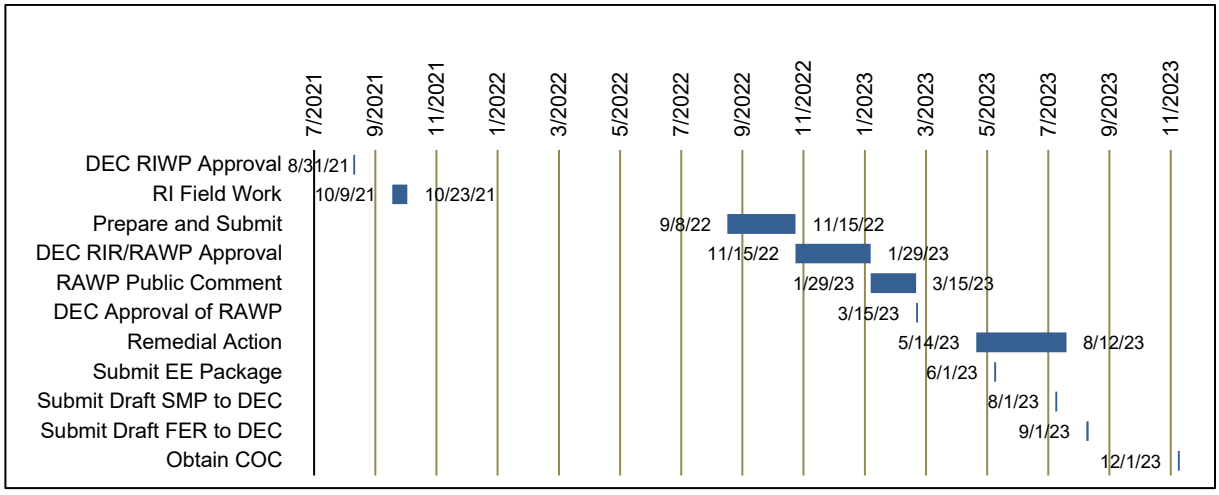
No BCP activities were completed during the reporting period. Roux expects to receive comments from NYSDEC and NYS Department of Health (NYSDOH) on the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) during the reporting period.

II. BCP Activities Planned for the Next Reporting Period

Roux will revise the RIR/RAWP when comments are received from NYSDEC and NYSDOH.

III. Schedule and Changes to Scope of Work or Schedule

The projected schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

None.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. The draft RIR/RAWP is under review. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

Pending RIR/RAWP comments that are received and report revision, the public review/comment period for the RIR/RAWP may commence during the next reporting period.

ROUX

PROGRESS REPORT #15

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: January 1 through January 31, 2023

Report Date: February 8, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

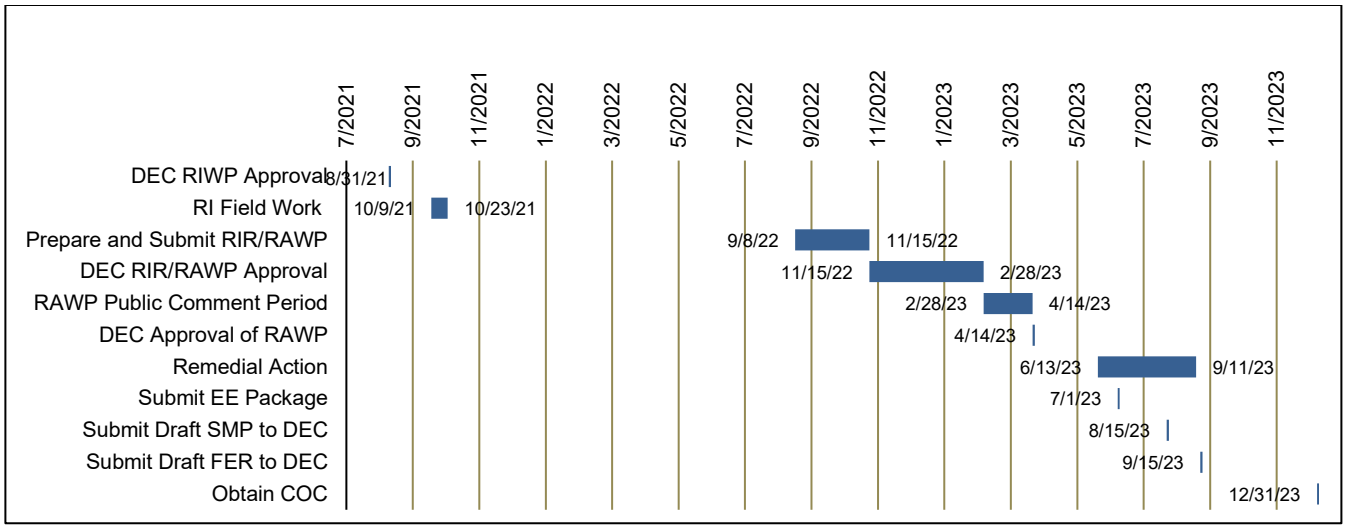
- An application to amend the BCA to change the remedial party for the Site from 458 East 99th Street LLC (previous owner) to 458 East Owners, LLC (current owner) was submitted to NYSDEC on January 23, 2023.
- Roux expects to receive comments from NYSDEC and NYS Department of Health (NYSDOH) on the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) during the next reporting period.
- On February 2, 2023, NYSDEC issued a Fact Sheet #4 template for Roux to complete. This action occurred outside of the reporting period for this PR, however, it predated the submission of this PR, so this action is being included.

II. BCP Activities Planned for the Next Reporting Period

- Roux will revise the RIR/RAWP when comments are received from NYSDEC and NYSDOH.
- Fact Sheet #4 announcing the public comment period on the RIR/RAWP may be issued so that the comment period can begin.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

None.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. The draft RIR/RAWP is under review. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

Pending RIR/RAWP comments that are received and report revision, the public review/comment period for the RAWP may commence during the next reporting period.

ROUX

PROGRESS REPORT #16

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: February 1 through February 28, 2023

Report Date: March 10, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

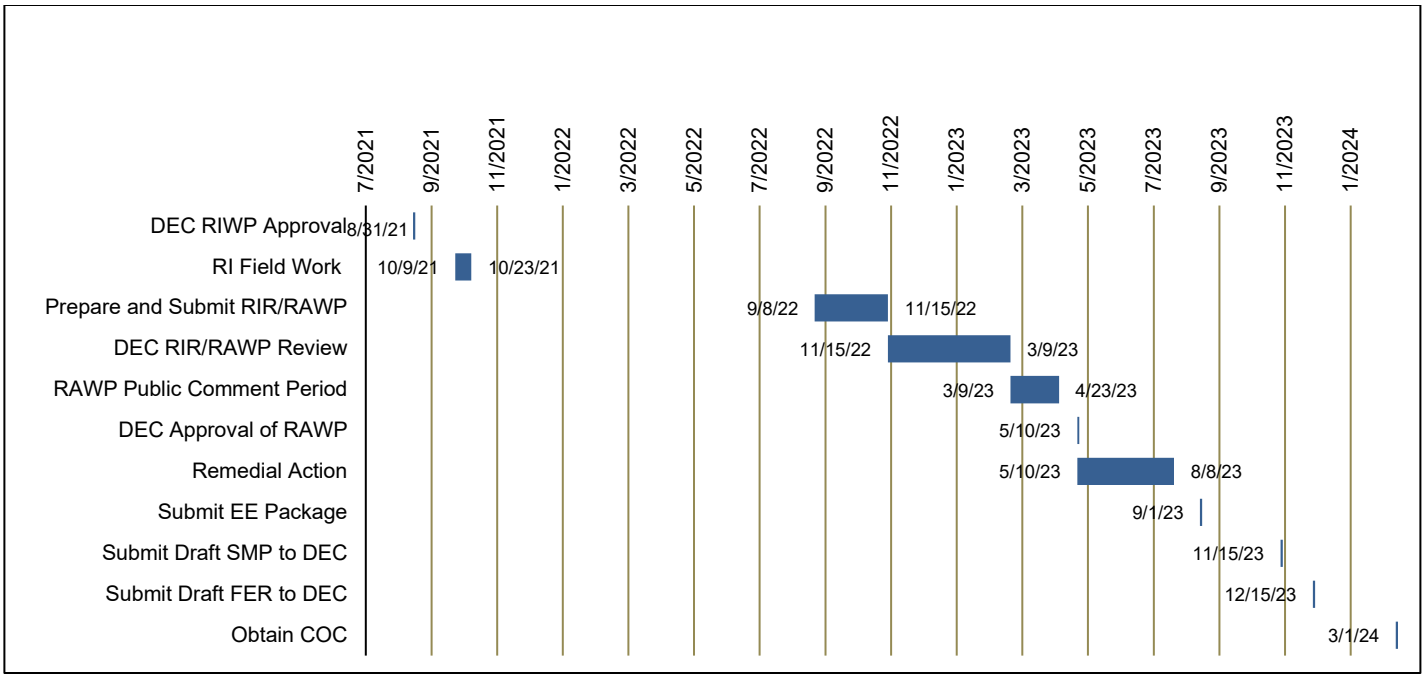
- An application to amend the BCA to change the remedial party for the Site from 458 East 99th Street LLC (previous owner) to 458 East Owners, LLC (current owner) was submitted to NYSDEC on January 23, 2023 by the environmental attorney Sive, Paget & Riesel, and is under review by NYSDEC.
- Roux expects to receive comments from NYSDEC and NYS Department of Health (NYSDOH) on the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) during the next reporting period.
- On February 2, 2023, NYSDEC issued a Fact Sheet template announcing the RAWP comment period. Roux returned the draft Fact Sheet to NYSDEC on February 15, 2023.

II. BCP Activities Planned for the Next Reporting Period

- Roux will revise the RIR/RAWP when comments are received from NYSDEC and NYSDOH.
- Fact Sheet announcing the public comment period on the RIR/RAWP will be issued so that the comment period can begin.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

The draft Fact Sheet announcing the RAWP public comment period was returned to NYSDEC on February 15, 2023.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. The draft RIR/RAWP is under review. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

The comment period for the RAWP will commence during the next reporting period.

ROUX

PROGRESS REPORT #16

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: February 1 through February 28, 2023

Report Date: March 10, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20), dated April 2, 2020, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

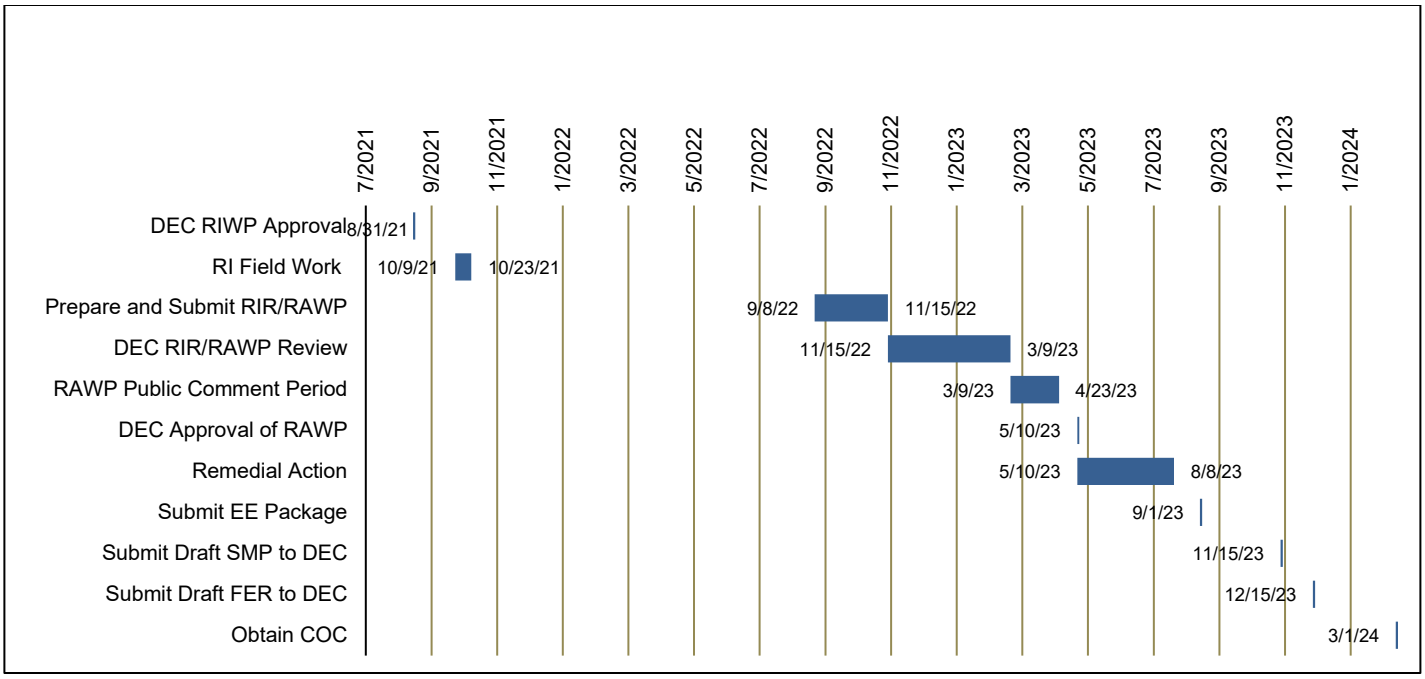
- An application to amend the BCA to change the remedial party for the Site from 458 East 99th Street LLC (previous owner) to 458 East Owners, LLC (current owner) was submitted to NYSDEC on January 23, 2023 by the environmental attorney Sive, Paget & Riesel, and is under review by NYSDEC.
- Roux expects to receive comments from NYSDEC and NYS Department of Health (NYSDOH) on the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) during the next reporting period.
- On February 2, 2023, NYSDEC issued a Fact Sheet template announcing the RAWP comment period. Roux returned the draft Fact Sheet to NYSDEC on February 15, 2023.

II. BCP Activities Planned for the Next Reporting Period

- Roux will revise the RIR/RAWP when comments are received from NYSDEC and NYSDOH.
- Fact Sheet announcing the public comment period on the RIR/RAWP will be issued so that the comment period can begin.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

The draft Fact Sheet announcing the RAWP public comment period was returned to NYSDEC on February 15, 2023.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. The draft RIR/RAWP is under review. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were completed during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

The comment period for the RAWP will commence during the next reporting period.

ROUX

PROGRESS REPORT #18

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: April 1 through April 30, 2023

Report Date: May 10, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

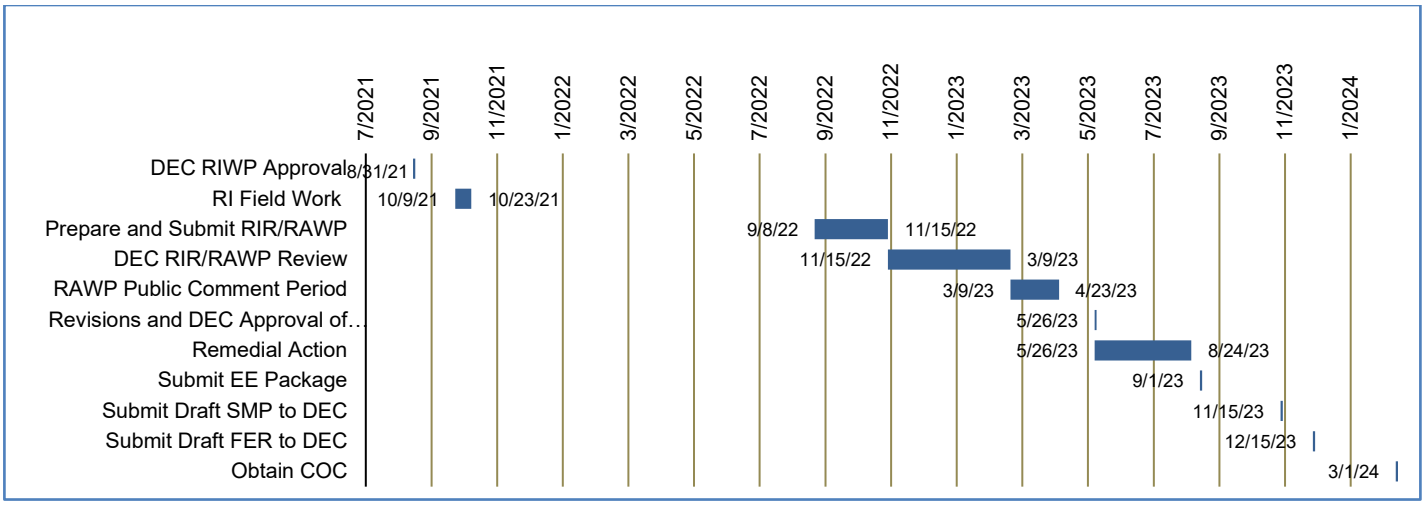
- The Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) comment period ended on April 22, 2023.
- NYSDEC and NYS Department of Health (*NYSDOH) issued RIR/RAWP comments on April 28, 2023.

II. BCP Activities Planned for the Next Reporting Period

Roux will address RIR/RAWP comments provided by NYSDEC and NYSDOH and resubmit.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. Comments from NYSDEC and NYSDOH on the RIR/RAWP are being addressed. RAWP implementation will occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan (CPP) Actions were taken during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

If the final RIR/RAWP is approved within the reporting period, the RIR/RAWP and RA Commencement Fact sheet will be distributed in accordance with the CPP.

ROUX

PROGRESS REPORT #19

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: May 1 through May 31, 2023

Report Date: June 12, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

Roux continued to address the comments to the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) that were issued by NYSDEC and NYS Department of Health (NYSDOH). Roux and NYSDEC held a conference call to discuss comments on May 25, 2023.

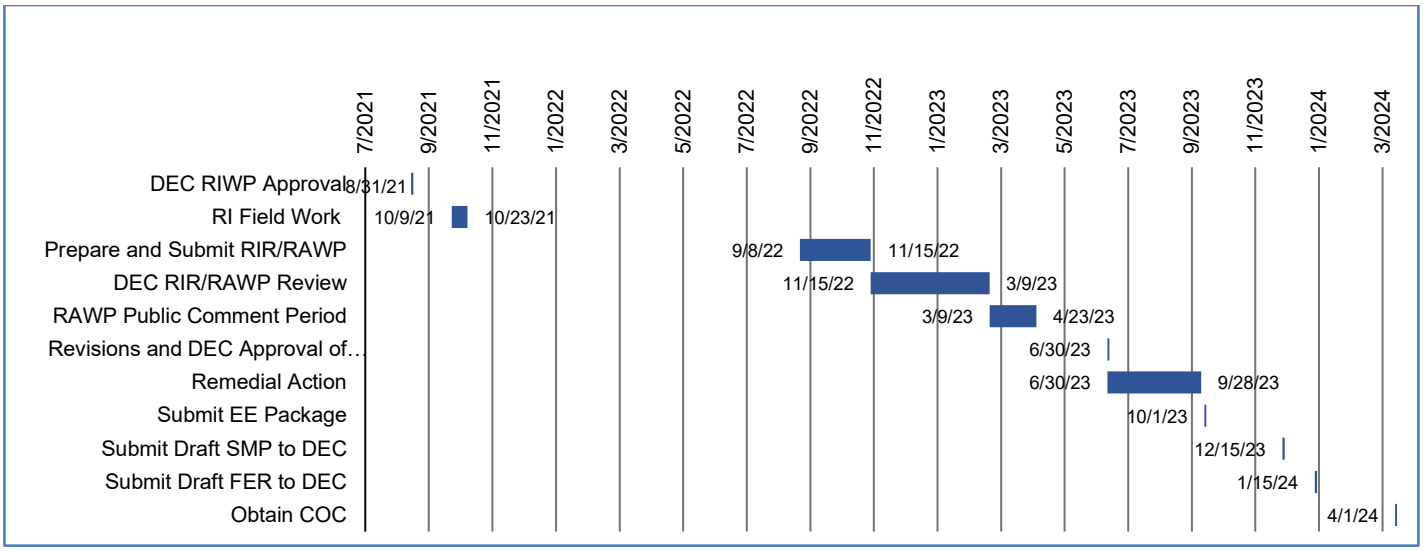
II. BCP Activities Planned for the Next Reporting Period

Roux will resubmit RIR/RAWP to NYSDEC and NYSDOH.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).

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IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. Comments from NYSDEC and NYSDOH on the RIR/RAWP are being addressed. RAWP implementation is anticipated to occur in 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were taken during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

Pending the approval of the RIR/RAWP and issuance of the Decision Document, the RIR/RAWP and RA Commencement Fact sheet may be distributed during the next reporting period.

ROUX

PROGRESS REPORT #20

Brownfield Cleanup Program Site No. C224254

458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: June 1 through June 30, 2023

Report Date: July 12, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

On June 29, 2023, Roux submitted the revised Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP).

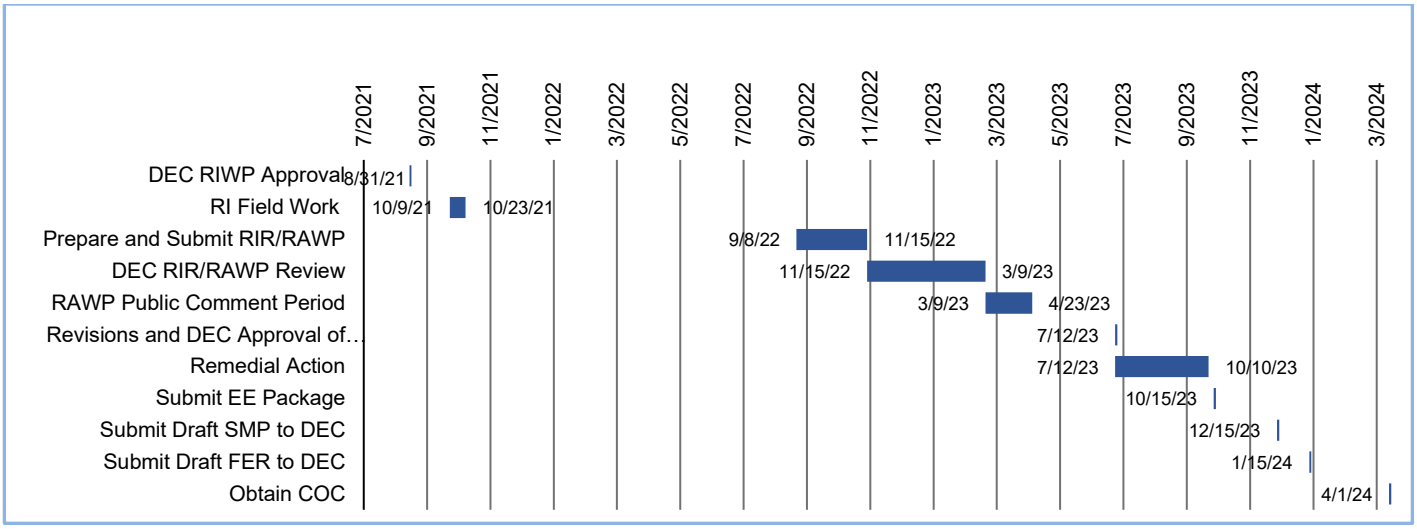
II. BCP Activities Planned for the Next Reporting Period

NYSDEC and NYSDOH may approve the RIR/RAWP.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to NYSDEC and NYSDOH approval of the RIR/RAWP and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).

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IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete. NYSDEC and NYSDOH are reviewing the revised RIR/RAWP. RAWP implementation is anticipated to occur in summer/fall 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were taken during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

Pending the approval of the RIR/RAWP and issuance of the Decision Document, the RIR/RAWP and RA Commencement Fact sheet may be distributed during the next reporting period.

ROUX

PROGRESS REPORT #21

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: July 1 through July 31, 2023

Report Date: August 15, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

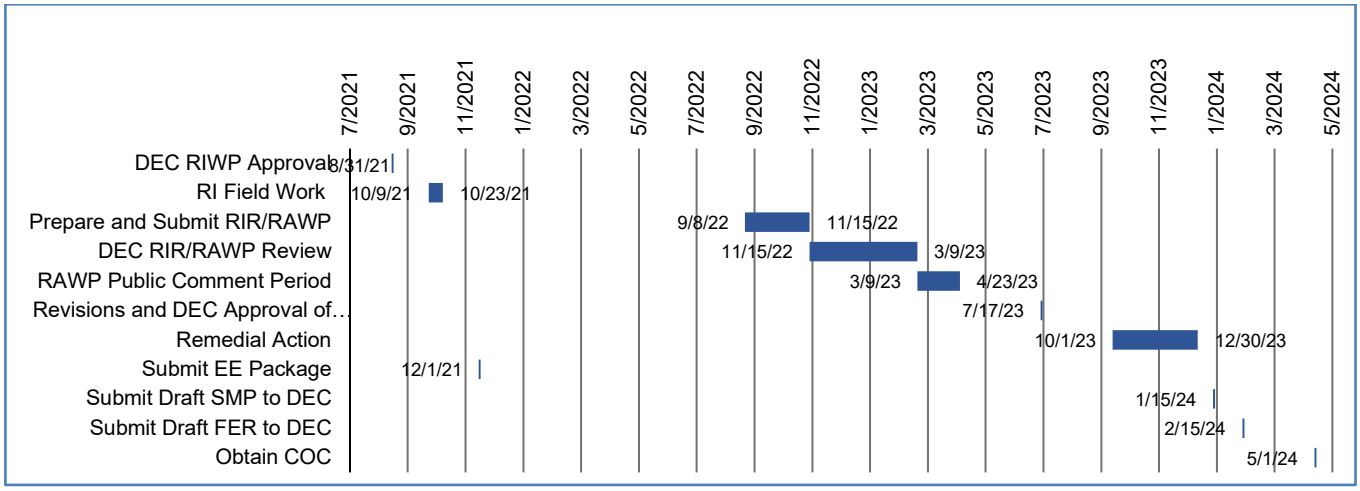
- On July 17, 2023, NYSDEC approved the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) and issued the Decision Document (DD).
- Roux drafted the Fact Sheet announcing the start of the Remedial Action (RA) and submitted it to NYSDEC on July 27, 2023.
- The Volunteer and Roux began to solicit bids for contractors to implement the approved RA.

II. BCP Activities Planned for the Next Reporting Period

- NYSDEC will issue the Fact Sheet announcing to the public that the RA will begin.
- The Volunteer and Roux will solicit bids for contractors to implement the RA in preparation for starting the RA.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RAWP implementation will be subject to selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



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IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

A draft Fact Sheet announcing the start of the RA was submitted to NYSDEC for review.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and the RIR/RAWP was approved. RA implementation is anticipated to begin in Fall 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plan Actions were taken during the reporting period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

The Fact Sheet announcing the start of the RA may be distributed by NYSDEC during the next reporting period.

ROUX

PROGRESS REPORT #22

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: August 1 through August 31, 2023

Report Date: September 7, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

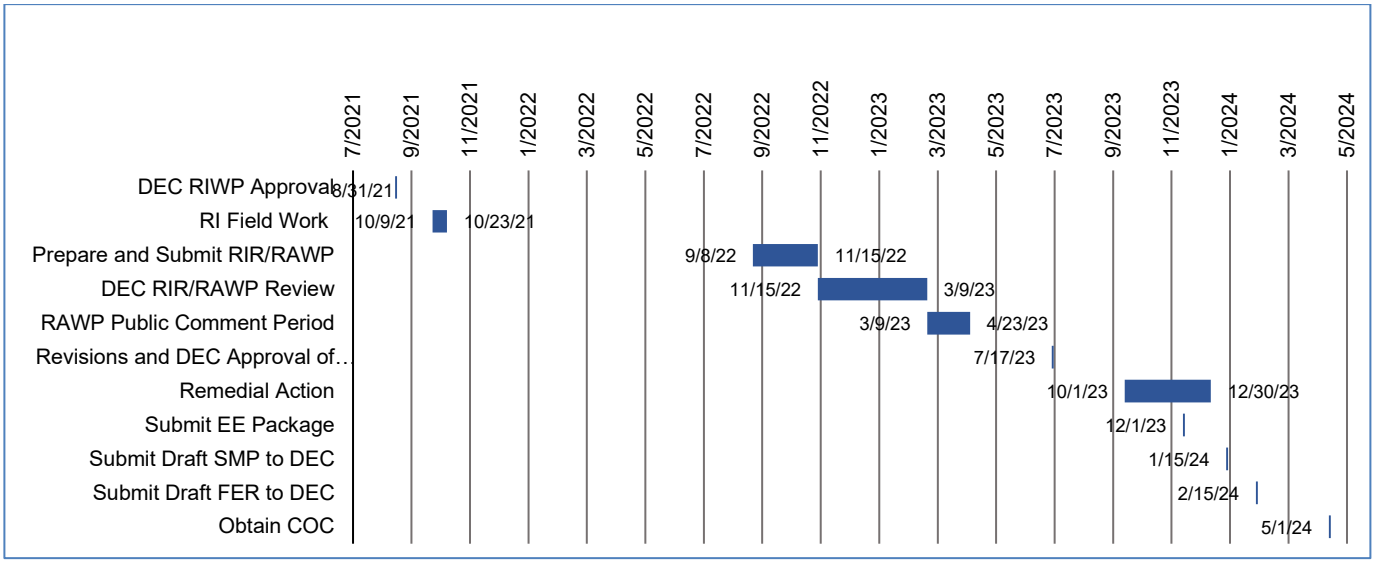
- NYSDEC finalized the Fact Sheet announcing the start of the Remedial Action (RA) and posted it to the listserv on August 23, 2023.
- Roux mailed copies of the Fact Sheet announcing the start of the RA to the Site Contact List.
- The Volunteer and Roux began to solicit bids for contractors to implement the approved RA.

II. BCP Activities Planned for the Next Reporting Period

- The Volunteer and Roux will continue efforts to engage contractor(s) to implement the RA and schedule a date to begin the RA.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RA implementation will be subject to selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



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IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) was approved. RA implementation is anticipated to begin in Fall 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

- NYSDEC finalized the Fact Sheet announcing the start of the Remedial Action (RA) and posted it to the listserv on August 23, 2023.
- Roux mailed copies of the Fact Sheet announcing the start of the RA to the Site Contact List.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

PROGRESS REPORT #23

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: September 1 through September 30, 2023

Report Date: October 10, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

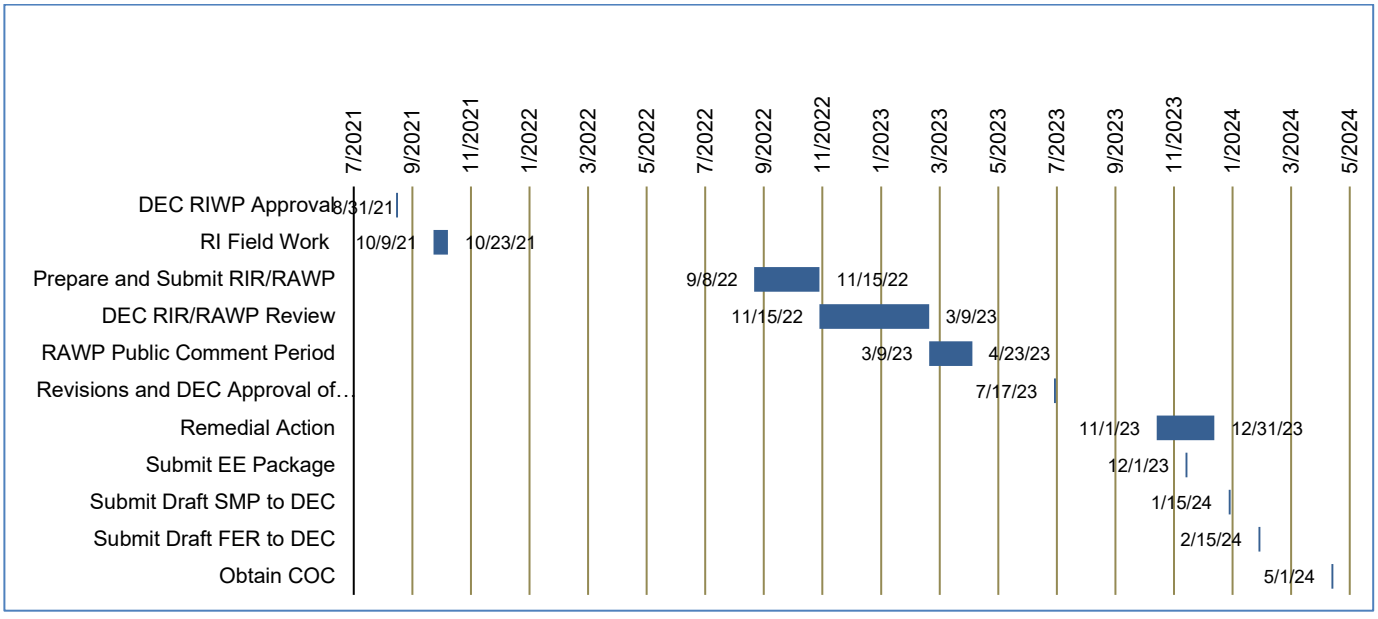
- The Volunteer and Roux continued to solicit bids for contractors to implement the approved RA and prepare to implement the RA.

II. BCP Activities Planned for the Next Reporting Period

- The Volunteer and Roux will continue their efforts to prepare to implement the RA.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RA implementation will be subject to selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) was approved. RA implementation is anticipated to begin in Fall 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #24

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: October 1 through October 31, 2023

Report Date: November 9, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

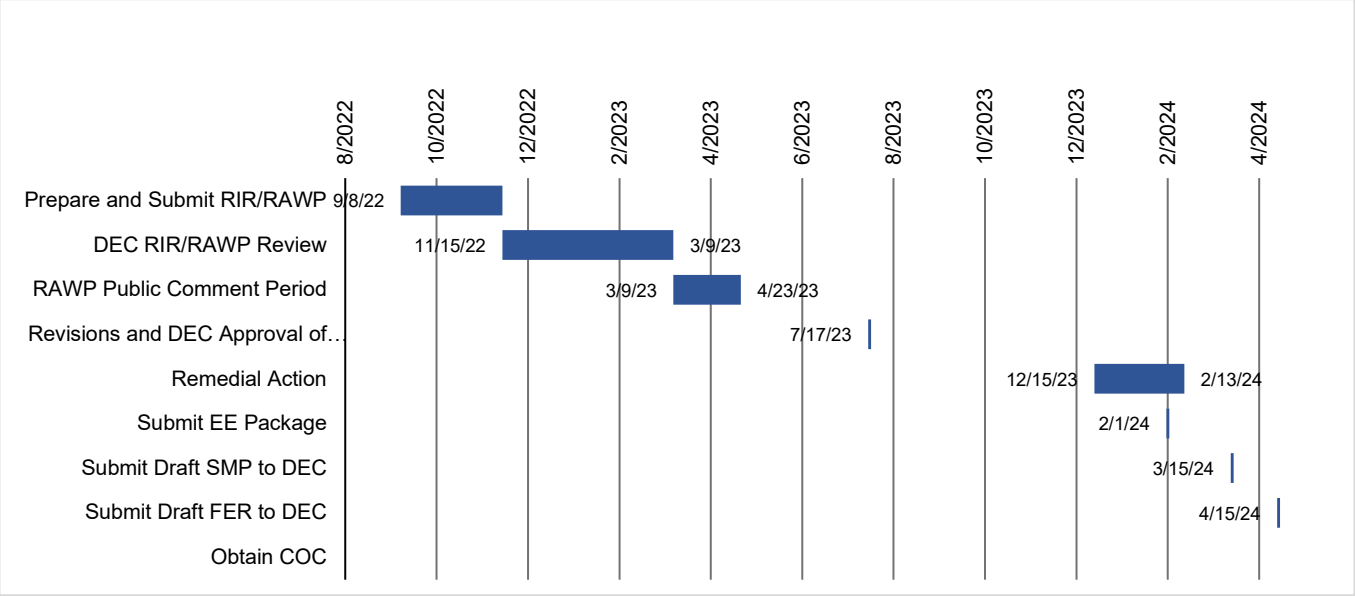
- The Volunteer and Roux continued to solicit bids for contractors to implement the approved RA and prepare to implement the RA.

II. BCP Activities Planned for the Next Reporting Period

- The Volunteer and Roux will continue their efforts to prepare to implement the RA.

III. Schedule and Changes to Scope of Work or Schedule

The estimated schedule is provided below. RA implementation will be subject to selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS).



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete and the Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) was approved. RA implementation is anticipated to begin in Fall 2023.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #25

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: November 1 through November 30, 2023

Report Date: December 11, 2023

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

The Volunteer and Roux continued to finalize acceptance of a bid and a prospective timeline for a contractor to implement the RA.

II. BCP Activities Planned for the Next Reporting Period

The Volunteer and Roux will continue their efforts to prepare to implement the RA.

III. Schedule and Changes to Scope of Work or Schedule

The Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) was approved by NYSDEC on July 14, 2023. RA implementation will be subject to final selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS). The potential timeframe for implementation based on preliminary estimates from the RA contractor is approximately late 1Q 2024 and NYSDEC will be updated once a focused timeline has been obtained.

IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the (RIR/RAWP) was approved. RA implementation is anticipated to begin in late 1Q 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

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ROUX

PROGRESS REPORT #26

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: December 1 through December 31, 2023

Report Date: January 10, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

The Volunteer and Roux continued to finalize acceptance of a bid and a prospective timeline for RA implementation.

II. BCP Activities Planned for the Next Reporting Period

The Volunteer and Roux will continue their efforts to finalize acceptance of a bid and a prospective timeline for RA implementation.

III. Schedule and Changes to Scope of Work or Schedule

The Remedial Investigation Report/Remedial Action Work Plan (RIR/RAWP) was approved by NYSDEC on July 14, 2023. RA implementation will be subject to facility availability final selection of a contractor to implement the RA and the lead time required to procure the blower fans for the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS). The potential timeframe for implementation based on feedback from the Volunteer and potential RA contactor is approximately 2Q 2024. NYSDEC will be provided with a focused timeline once more information is obtained.

IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the (RIR/RAWP) was approved. RA implementation is anticipated to begin in 2Q 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

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ROUX

PROGRESS REPORT #27

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: January 1 through January 31, 2024

Report Date: February 12, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

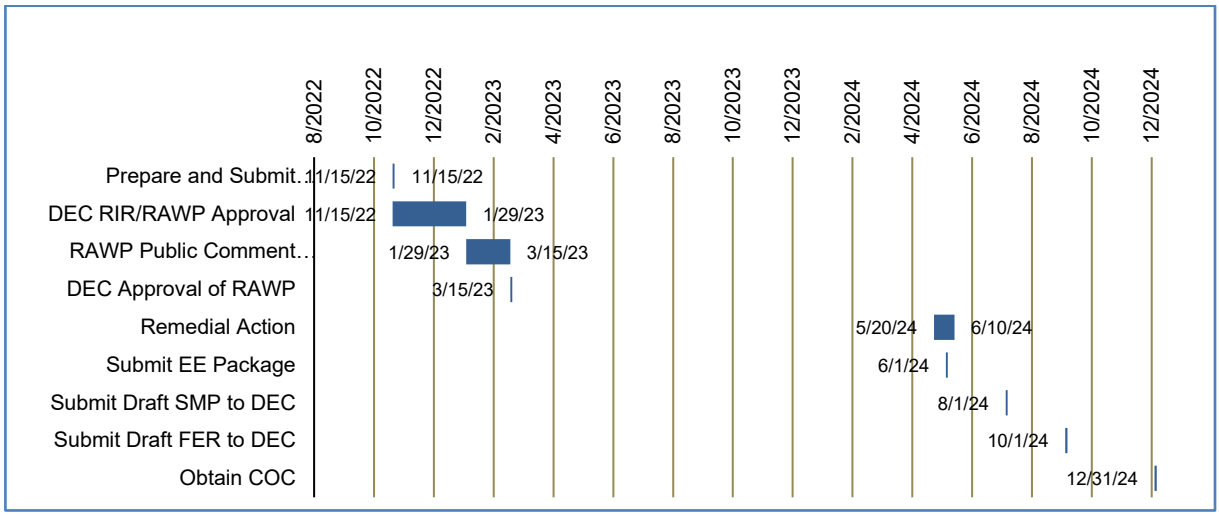
- Roux and NYSDEC held a conference call on January 26, 2024, to discuss project activities and schedule.
- The Volunteer and Roux fully executed a contract to hire a contractor to assist with RA implementation. The soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) contractor was engaged, and they began the process of procuring the blower fans for the Site. *Note, this occurred on February 6, 2024, which is outside of the reporting period but is being included as a notable milestone.*
- The Volunteer established an anticipated started date for the RA to be May 20, 2024.

II. BCP Activities Planned for the Next Reporting Period

- The Volunteer and Roux will continue to work with the SSDS/SVES contractor to procure the fans.
- Pending the availability of the woodworking shop, the SSDS/SVES contractor, and weather, a pre-construction Site visit may take place at the Site during the next reporting period.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



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IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the (RIR/RAWP) was approved. RA implementation is anticipated to begin in 2Q 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #28

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: February 1 through February 29, 2024

Report Date: March 11, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

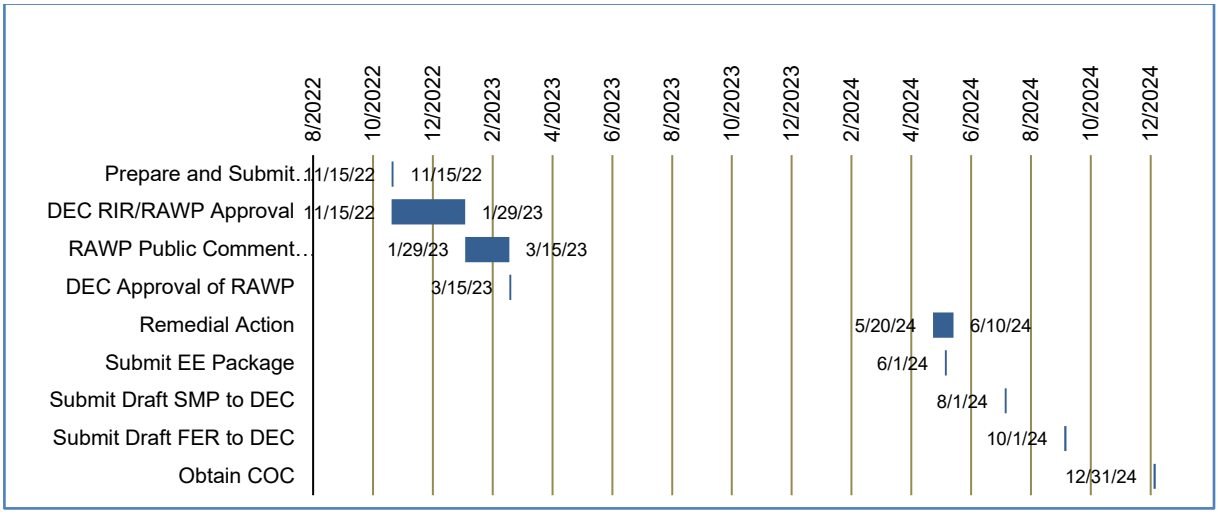
- On February 6, 2024, the Volunteer and Roux fully executed a contract to hire a contractor to assist with RA implementation. The soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) contractor was engaged, and blower fans were procured and were received by the contractor on March 4, 2024.

II. BCP Activities Planned for the Next Reporting Period

- Roux and the SSDS/SVES contractor will perform a pre-construction Site walk the week of March 31, 2024.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the (RIR/RAWP) was approved. RA implementation is anticipated to begin in May 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #29

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: March 1 through March 31, 2024

Report Date: April 10, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

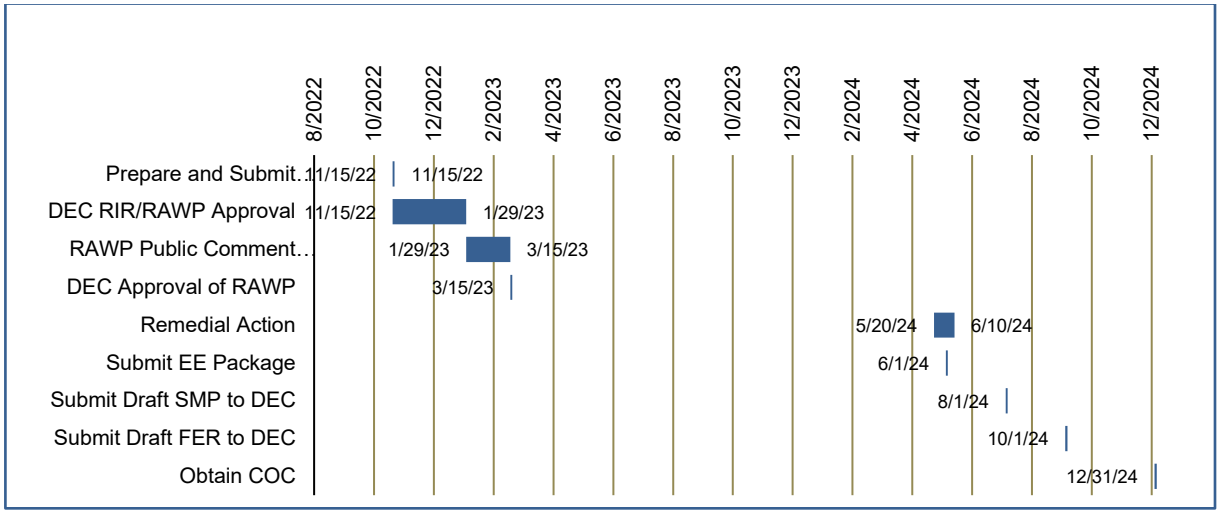
- On April 1, 2024, Roux and the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) contractor performed a pre-construction Site walk.

II. BCP Activities Planned for the Next Reporting Period

- NYSDEC, Roux, the SSDS/SVES contractor, and Volunteer will hold a pre-construction meeting in late April or early May.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the (RIR/RAWP) was approved. RA implementation is anticipated to begin in May 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #30

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: April 1 through April 30, 2024

Report Date: May 10, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

- On April 1, 2024, Roux and the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) contractor performed a pre-construction Site walk.

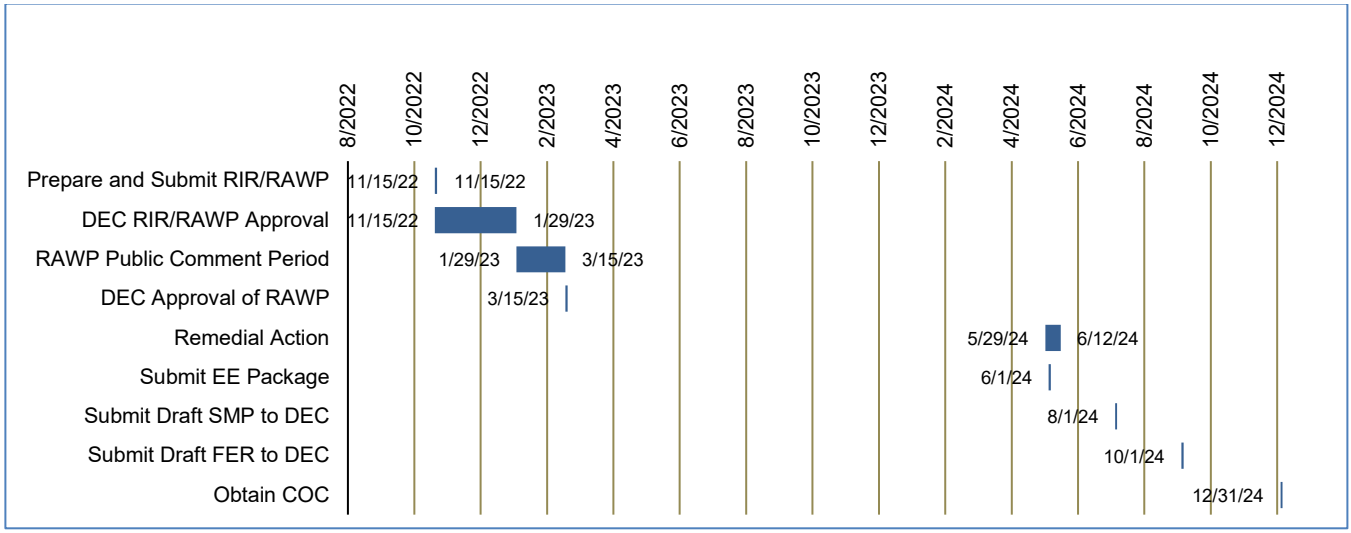
- On May 8, 2024, Roux, the SVES/SSDS contractor, and NYSDEC performed a Remedial Action Work Plan (RAWP) Pre-Construction meeting at the Site. During the meeting, the RA start date was modified to begin on May 29, 2024. Note, this activity is outside of the reporting period but was completed prior to this report.

II. BCP Activities Planned for the Next Reporting Period

RA implementation is scheduled to begin on May 29, 2024. Roux will notify NYSDEC in writing at least seven days in advance of the RA implementation starting.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

No deliverables were submitted during the reporting period.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the Remedial Investigation Report (RIR)/RAWP was approved. RA implementation is anticipated to begin May 29, 2024.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #31

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: May 1 through May 31, 2024

Report Date: June 10, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

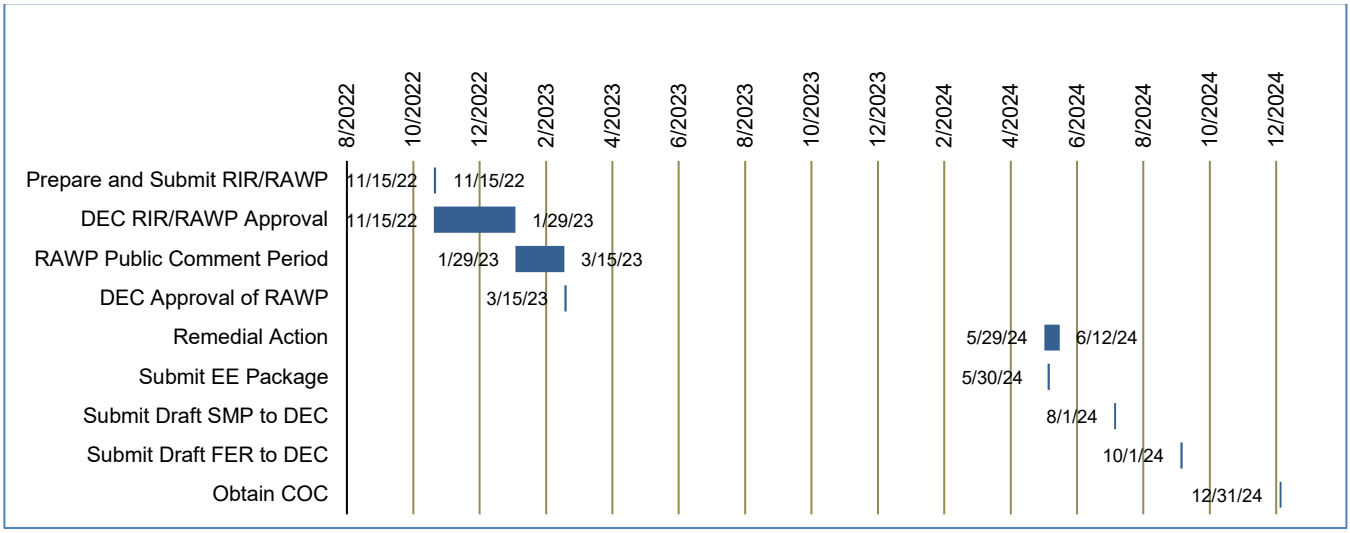
- On April 1, 2024, Roux and the soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) contractor performed a pre-construction Site walk.
- On May 8, 2024, Roux, the SVES/SSDS contractor, and NYSDEC performed a Remedial Action Work Plan (RAWP) Pre-Construction meeting at the Site. During the meeting, the RA start date was modified to begin on May 29, 2024.
- On May 22, 2024, Roux notified NYSDEC that field work for the RA would commence on May 29, 2024.
- On May 29, 2024, Roux and their contractor responsible for implementing the RA mobilized to the Site and RA implementation began. Starting on May 30, daily activity reports were issued to NYSDEC and NYSDOH each day summarizing the activities that occurred the previous day. Field implementation is scheduled to be completed by June 11, 2024.
- On May 30, 2024, the environmental attorney for the project Sive, Paget, and Reisel PC submitted a Environmental Easement package to NYSDEC.

II. BCP Activities Planned for the Next Reporting Period

RA implementation will continue into early July 2024.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



IV. Sampling and Other Data Received or Generated during the Reporting Period

No sampling or other data was received or generated during the reporting period.

V. Deliverables Submitted during the Reporting Period

Daily activity reports were submitted to NYSDEC and NYSDOH, as necessary, and they are also included in this progress report.

VI. Percentage of Work Completion and Any Delays

RI implementation is complete, and the Remedial Investigation Report (RIR)/RAWP was approved. RA implementation is ongoing.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

ROUX

PROGRESS REPORT #32

Brownfield Cleanup Program Site No. C224254
458 East 99th Street Site
458 East 99th Street, Brooklyn, New York

Period: June 1 through June 30, 2024

Report Date: July 11, 2024

Introduction

In accordance with the New York State Department of Environmental Conservation (NYSDEC) Brownfield Cleanup Agreement (Index #C224254-01-20; dated April 2, 2020) and BCA Amendment #1 dated March 1, 2023, this Progress Report (PR) was prepared by Roux Environmental Engineering and Geology, D.P.C. (Roux) to describe the NYSDEC Brownfield Cleanup Program (BCP) activities at the 458 East 99th Street Site, located at 458 East 99th Street, Brooklyn, New York (Site).

I. BCP Activities Completed during the Reporting Period

- Soil vapor extraction system/sub-slab depressurization system (SVES/SSDS) installation continued and was completed on June 11, 2024. Blower fans were energized on June 11 and start-up vacuum testing was performed. All sub-slab monitoring points showed adequate vacuum.

- Daily activity reports were issued to NYSDEC and NYS Department of Health (DOH) each day summarizing the activities that occurred the previous day. Activity reports are also attached to this PR.

- Roux began to draft the Site Management Plan (SMP).

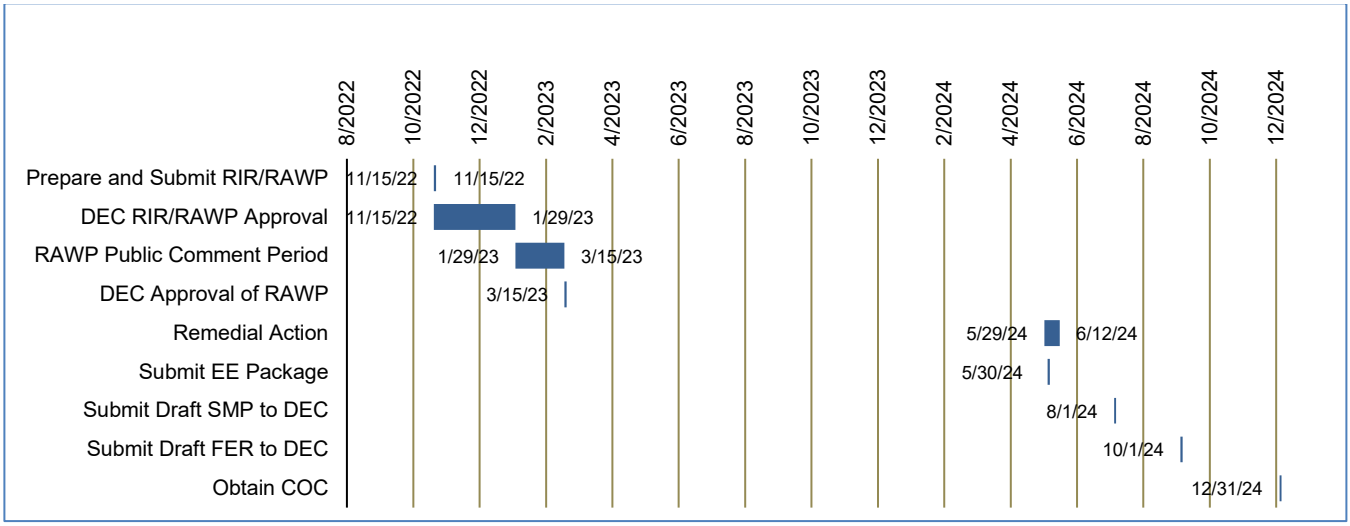
II. BCP Activities Planned for the Next Reporting Period

- Disposal of soil removed as part of Remedial Action implementation will be completed. The disposal will be scheduled after the appropriate disposal facility approval is obtained.

- SVES/SSDS start-up testing procedures will continue with effluent air sampling from each riser in accordance with the Remedial Action Work Plan (RAWP). This will occur the same day as drum disposal and the schedule is pending.

III. Schedule and Changes to Scope of Work or Schedule

The current BCP schedule is provided below. This schedule will be updated in future progress reports, as necessary.



IV. Sampling and Other Data Received or Generated during the Reporting Period

Soil was removed as part of the SVES/SSDS installation, and one soil waste characterization sample was collected by the installation contractor. Soil was determined to be non-hazardous, and data will be reported in the Final Engineering Report (FER).

V. Deliverables Submitted during the Reporting Period

Daily activity reports were submitted to NYSDEC and NYSDOH, as necessary, and they are also included in this progress report.

VI. Percentage of Work Completion and Any Delays

RA implementation is complete and the SMP and FER will be drafted.

VII. Citizen Participation Plan Actions Taken during the Reporting Period

No Citizen Participation Plans occurred during the period.

VIII. Citizen Participation Plan Actions Planned for the Next Reporting Period

No Citizen Participation Plans are planned for the next reporting period.

APPENDIX E

Digital Project Photo Log

Photo Log



05/29/2024 IRT using belt saw to cut for suction point



-05/29/2024 IRT using belt saw to cut for suction point



05/29/2024 IRT using belt saw to cut for suction point



05/29/2024 IRT using belt saw to cut for suction point



05/30/2024 IRT begins demo work on suction point.



05/30/2024 IRT removing sediment for point install



05/30/2024 IRT begins demo work on suction point



05/30/2024 IRT digs suction point



05/31/2024 IRT begins installing PVC Vent Stack



05/31/2024 IRT installs PVC for suction point



05/31/2024 IRT backfills suction point



05/31/2024 IRT backfilling pvc with ballast stone



05/31/2024 IRT hang grading layer of suction point



05/31/2024 IRT bracing suction point with rebar and stone layers



05/31/2024 IRT barreling removed soil from suction point demo



05/31/2024 IRT continues installing suction point PVC connection



06/03/2024 IRT begins grouting around suction point PVC



06/03/2024 IRTcontinues grouting around suction point PVC



06/03/2024 IRT backfills suction point with ballast stone



06/03/2024 IRT begins grouting around suction point PVC



06/03/2024 IRT hand grouting suction point



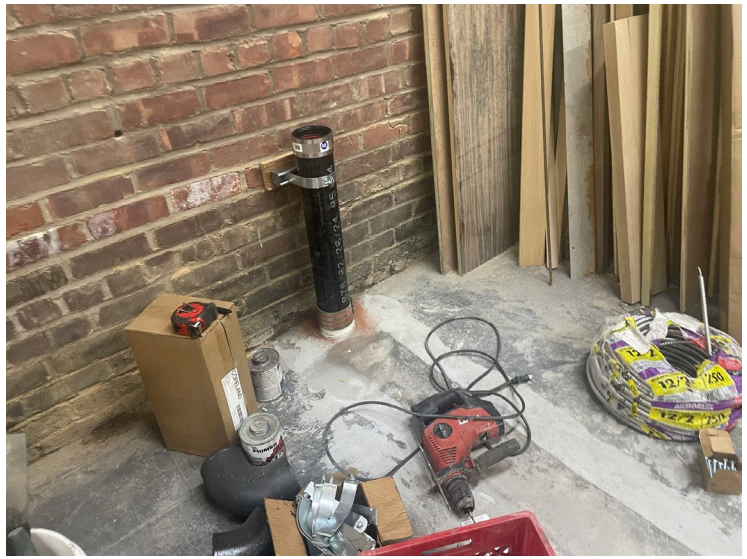
06/03/2024 IRT finished hand grouting suction point



06/03/2024 IRT finished hand grouting suction point



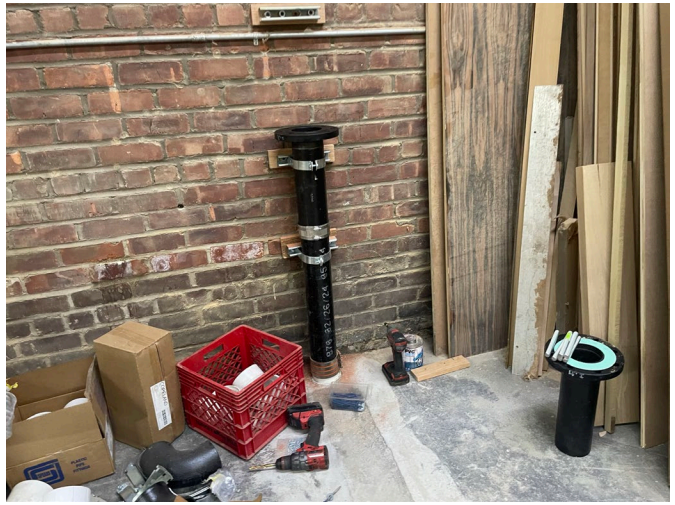
06/03/2024 IRT finished hand grouting suction point



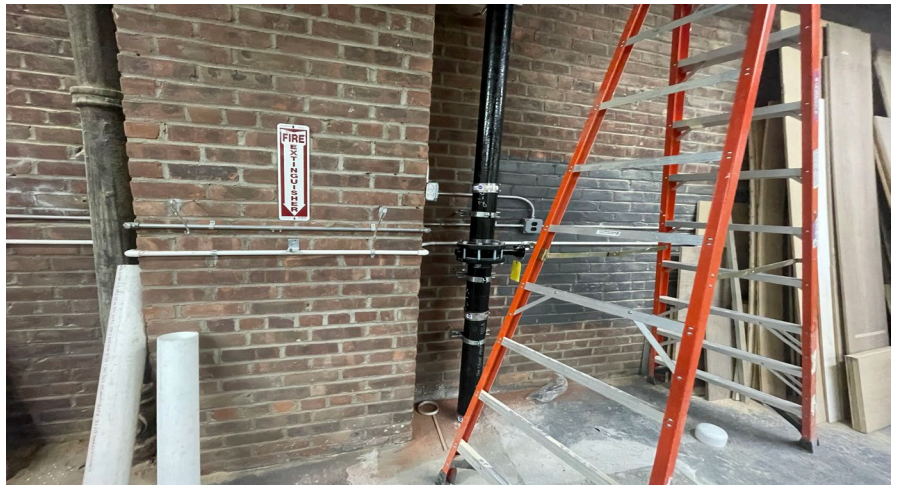
06/04/2024 IRT begins constructing the vent stack



06/04/2024 IRT begins constructing the vent stack



06/04/2024 IRT begins constructing the vent stack



06/04/2024 IRT begins constructing the vent stack



06/05/2024 IRT extends vent stack



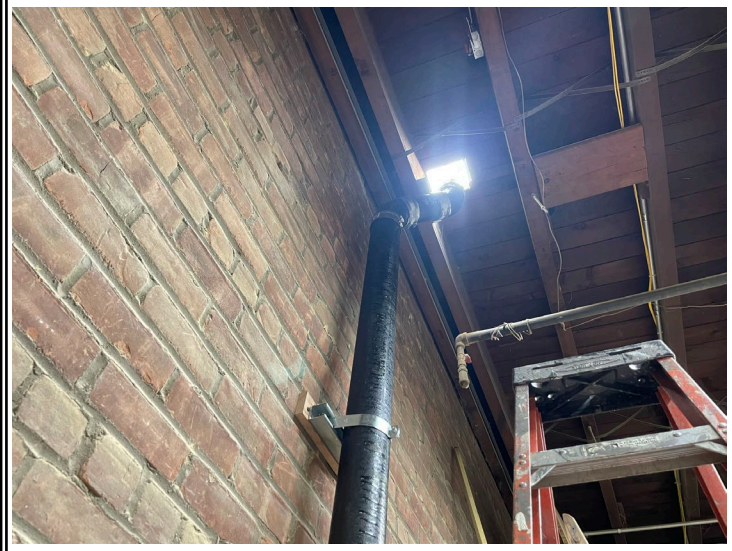
06/05/2024 IRT extends vent stack horizontally



06/05/2024 IRT continues working on additional vent stacks



06/05/2024 IRT extends vent stack through roof



06/05/2024 continue extending vent stack through the ceiling



06/07/2024: finished inline fans and electrical connection



06/07/2024: finished inline fan and electrical connection



06/07/2024: finished inline fan and electrical connection

APPENDIX F

Disposal Facility Profiles and Approval Documentation

jgenvironmental
responsible safe solutions

July 12, 2024

Ms. Lisa Baldwin
Innovative Recycling Technologies, Inc.
690 North Queens Avenue
Lindenhurst, NY 11757

Notice Of Approval: 458 East Owners, LLC.

Dear Ms. Baldwin,

JG Environmental, LLC. is pleased to provide you with this Notice of Approval into our Waste Processing facility in Lancaster, PA for the waste stream(s) listed below in accordance with our PA DEP Permit #101712. This approval letter is to confirm that JG has the appropriate permits, is authorized to store and/or treat these waste(s) and has the capacity necessary to handle the waste materials. We will process these materials in compliance with all applicable federal, state, and local regulations. The approvals are based upon the profile and other information provided to JG by your company. The generator of this waste is ultimately responsible for the accuracy and completeness of the information on the profile. Please notify us immediately if at any time there are changes to the waste.

NEWLY APPROVED PROFILES:

Non-Hazardous Sand & Soil, Approval #2407-066-SOL-7/12/2029

JG Environmental, LLC. appreciates the opportunity to assist you with your waste management needs.

Sincerely,

Jeff Witwer

Jeff Witwer
Director of Environmental Compliance

Profile Number: _____

jgenvironmental
responsible safe solutions

GENERATOR WASTE PROFILE SHEET

Section 1 – General Information

Generator Name: 458 East Owners LLC		
Site Address: 458 East 99th Street		
Town, State, Zip: Brooklyn, NY 11236		
Mail Address: Same as above		
Town, State, Zip:		
Facility Contact/Title: Wolfgang Michelitsch		
Email Address:		
Phone: (917)861-5369	Fax:	EIN #

Section 2 – Billing Information

Name: Innovative Recycling Technologies, Inc.		
Mail Address: 690 N. Queens Avenue		
Town, State, Zip: Lindenhurst, NY 11757		
Contact/Title: John Dull		
Email Address: jdull@irtwaste.com		
Phone: (631)225-3044	Fax: (631)225-3056	EPA ID#

Section 3 – Waste Composition

Name and Description of Material: Non-Hazardous Sand & Soil
Process Generating Waste: From monitoring well installation.
Estimated Annual Volume: 7
Quantity: 7X55 Gal.
Type of Shipment: Bulk ☐ Drums ☑ Other ☐

Waste Description (Chemical Composition):
Sand & Soil 100%

Section 4 – Material Properties

Total Metals		Yes	No
Arsenic	> 10 ppm	☐	☑
Barium	> 2000 ppm	☐	☑
Cadmium	> 20 ppm	☐	☑
Chromium	> 100 ppm	☐	☑
Lead	> 100 ppm	☐	☑
Mercury	> 4 ppm	☐	☑
Selenium	> 20 ppm	☐	☑
Silver	> 100 ppm	☐	☑
Other Metals (List above)		☐	☑

Section 4 – Material Properties Cont.

Compounds		Yes	No
Sulfur	> 1.5%	☐	☑
Nitrogen	> 20%	☐	☑
Chlorine	> 0.3%	☐	☑
Flourine	> 738 ppm	☐	☑
Bromine	> 300 ppm	☐	☑
Iodine	> 50 ppm	☐	☑
Flashpoint	< 140°F	☐	☑

This determination was based upon: ☑ Analytical Data ☐ Generator Knowledge

Section 4 – Material Properties Continued

Physical State: ☑ Solid ☐ Liquid ☐ Sludge

Reactivity: ☐ Water Reactive ☐ Acid Reactive ☐ Alkaline Reactive
☐ Oxidizer ☑ None

Color: Brown

Odor: ☑ None ☐ Mild ☐ Strong ☐ Other: _____

pH: ☐ <2 ☐ >2-6 ☑ >6-9 ☐ >9-12.5 ☐ >12.5 ☐ NA

Section 5 – Regulatory Waste Classification

Is this waste an EPA Listed Waste per 40 CFR 261? ☐ Yes ☑ No

Is this waste an EPA Characteristic Hazardous Waste per 40 CFR 261? ☐ Yes ☑ No

The regulatory classifications above were based upon:

- ☑ Analytical Data (attach all relevant analysis)
- ☐ Generator Knowledge (check all that apply):
  - ☐ Knowledge of the waste regulations
  - ☐ MSDS provided for material(s)
  - ☐ Information describing the process and materials generating the waste

Proper DOT Shipping Description:
Shipping Name: Non-Hazardous Sand & Soil / Non-DOT Regulated Waste
UN/NA: _____ PG: _____ Waste Codes: _____

Attach all relevant Material Safety Data Sheets, Laboratory Analyses, Waste Sampling Plans, Flow Chart or Process Schematic if available. Attach separate sheets to disclose all known and suspected hazards, special handling precautions and additional comments.

Desired Destruction Method: ☐ Waste to Energy ☑ Landfill ☐ Recycling/Treatment

Section 6 – Certifications

GENERATOR'S CERTIFICATIONS

I hereby certify the above information is correct to the best of my knowledge. I further certify that JG Environmental will be notified in writing of any process change, which could significantly alter the composition and/or chemical/physical properties of the waste described above.

Print Name: WOLFGANG MICHELITSCH Title: _____

Generator Signature: Wolfgang Michelitsch Date: 7.11.2024

(Must be signed)

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"

Laboratory Report

NYSDOH ELAP# 11693
USEPA# NY01273
CTDOH# PH-0284
AIHA# 164456
NJDEP# NY012
PADEP# 68-2943

LIAL# 4060650

June 18, 2024

Innovative Recycling Technologies
John Ewen
690 North Queens Avenue
Lindenhurst, NY 11757

Re: 458 E 99th St Brooklyn NY

Dear John Ewen,

Enclosed please find the laboratory Analysis Report(s) for sample(s) received on June 06, 2024. Long Island Analytical laboratories analyzed the samples on June 18, 2024 for the following:

SAMPLE ID	ANALYSIS
Drums	EPA 8260 D, EPA 8270 E, RCRA 8, RCRA Characteristics (RIC)

Samples received at 2.3 ° C

1.C Holding time exceeded, analyze immediate parameter.

If you have any questions or require further information, please call at your convenience. Long Island Analytical Laboratories Inc. is a NELAP accredited laboratory. All reported results meet the requirements of the NELAP standards unless noted. Report shall not be reproduced except in full without the written approval of the laboratory. Results related only to items tested. Long Island Analytical Laboratories would like to thank you for the opportunity to be of service to you.

Best Regards,

Long Island Analytical Laboratories, Inc.

James Aufiero
Chief Operating Officer

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Volatiles Low Level Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,1,1,2-Tetrachloroethane	630-20-6	5.29	<5.29	ug/kg dry	
1,1,1-Trichloroethane	71-55-6	5.29	<5.29	ug/kg dry	
1,1,2,2-Tetrachloroethane	79-34-5	5.29	<5.29	ug/kg dry	
1,1,2-Trichloro-1,2,2-trifluoroethane	76-13-1	5.29	<5.29	ug/kg dry	
1,1,2-Trichloroethane	79-00-5	5.29	<5.29	ug/kg dry	
1,1-Dichloroethane	75-34-3	5.29	<5.29	ug/kg dry	
1,1-Dichloroethene	75-35-4	5.29	<5.29	ug/kg dry	
1,1-Dichloropropene	563-58-6	5.29	<5.29	ug/kg dry	
1,2,3-Trichlorobenzene	87-61-6	5.29	<5.29	ug/kg dry	
1,2,3-Trichloropropane	96-18-4	5.29	<5.29	ug/kg dry	
1,2,4,5-Tetramethylbenzene	95-93-2	5.29	<5.29	ug/kg dry	
1,2,4-Trichlorobenzene	120-82-1	5.29	<5.29	ug/kg dry	
1,2,4-Trimethylbenzene	95-63-6	5.29	<5.29	ug/kg dry	
1,2-Dibromo-3-chloropropane	96-12-8	5.29	<5.29	ug/kg dry	
1,2-Dibromoethane	106-93-4	5.29	<5.29	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	5.29	<5.29	ug/kg dry	
1,2-Dichloroethane	107-06-2	5.29	<5.29	ug/kg dry	
1,2-Dichloropropane	78-87-5	5.29	<5.29	ug/kg dry	
1,3,5-Trimethylbenzene	108-67-8	5.29	<5.29	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	5.29	<5.29	ug/kg dry	
1,3-Dichloropropane	142-28-9	5.29	<5.29	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	5.29	<5.29	ug/kg dry	
1,4-Diethylbenzene	105-05-5	5.29	<5.29	ug/kg dry	
1,4-Dioxane	123-91-1	26.4	<26.4	ug/kg dry	
2,2-Dichloropropane	594-20-7	5.29	<5.29	ug/kg dry	
2-Chloroethyl Vinyl Ether	110-75-8	5.29	<5.29	ug/kg dry	
2-Chlorotoluene	95-49-8	5.29	<5.29	ug/kg dry	
4-Chlorotoluene	106-43-4	5.29	<5.29	ug/kg dry	
4-Ethyltoluene	622-96-8	5.29	<5.29	ug/kg dry	
4-Isopropyltoluene	99-87-6	5.29	<5.29	ug/kg dry	

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
4-Methyl-2-Pentanone	108-10-1	10.6	<10.6	ug/kg dry	
Acetone	67-64-1	21.2	<21.2	ug/kg dry	
Acrolein	107-02-8	10.6	<10.6	ug/kg dry	
Acrylonitrile	107-13-1	10.6	<10.6	ug/kg dry	
Benzene	71-43-2	5.29	<5.29	ug/kg dry	
Bromobenzene	108-86-1	5.29	<5.29	ug/kg dry	
Bromochloromethane	74-97-5	5.29	<5.29	ug/kg dry	
Bromodichloromethane	75-27-4	5.29	<5.29	ug/kg dry	
Bromoform	75-25-2	5.29	<5.29	ug/kg dry	
Bromomethane	74-83-9	5.29	<5.29	ug/kg dry	4.K
Carbon disulfide	75-15-0	5.29	<5.29	ug/kg dry	
Carbon Tetrachloride	56-23-5	5.29	<5.29	ug/kg dry	
Chlorobenzene	108-90-7	5.29	<5.29	ug/kg dry	
Chlorodifluoromethane	75-45-6	5.29	<5.29	ug/kg dry	
Chloroethane	75-00-3	5.29	<5.29	ug/kg dry	
Chloroform	67-66-3	5.29	<5.29	ug/kg dry	
Chloromethane	74-87-3	5.29	<5.29	ug/kg dry	
cis-1,2-Dichloroethene	156-59-2	5.29	<5.29	ug/kg dry	
cis-1,3-Dichloropropene	10061-01-5	10.6	<10.6	ug/kg dry	
Dibromochloromethane	124-48-1	5.29	<5.29	ug/kg dry	
Dibromomethane	74-95-3	5.29	<5.29	ug/kg dry	
Dichlorodifluoromethane	75-71-8	5.29	<5.29	ug/kg dry	
Ethylbenzene	100-41-4	5.29	<5.29	ug/kg dry	
Hexachlorobutadiene	87-68-3	5.29	<5.29	ug/kg dry	
Isopropylbenzene (Cumene)	98-82-8	5.29	<5.29	ug/kg dry	
m,p-Xylenes	108-38-3/106-42-3	10.6	<10.6	ug/kg dry	
Methyl Acetate	79-20-9	5.29	<5.29	ug/kg dry	
Methyl Butyl Ketone (2-Hexanone)	591-78-6	10.6	<10.6	ug/kg dry	
Methyl Ethyl Ketone (2-Butanone)	78-93-3	10.6	<10.6	ug/kg dry	

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Methylene Chloride	75-09-2	5.29	<5.29	ug/kg dry	
Methyl-tert-Butyl Ether	1634-04-4	5.29	<5.29	ug/kg dry	
Naphthalene	91-20-3	10.6	<10.6	ug/kg dry	
n-Butylbenzene	104-51-8	5.29	<5.29	ug/kg dry	
n-Propylbenzene	103-65-1	5.29	<5.29	ug/kg dry	
o-Xylene	95-47-6	5.29	<5.29	ug/kg dry	
sec-Butylbenzene	135-98-8	5.29	<5.29	ug/kg dry	
Styrene	100-42-5	5.29	<5.29	ug/kg dry	
tert-Butyl alcohol	75-65-0	10.6	<10.6	ug/kg dry	
tert-Butylbenzene	98-06-6	5.29	<5.29	ug/kg dry	
Tetrachloroethene	127-18-4	5.29	16.6	ug/kg dry	
Toluene	108-88-3	5.29	<5.29	ug/kg dry	
trans-1,2-Dichloroethene	156-60-5	5.29	<5.29	ug/kg dry	
trans-1,3-Dichloropropene	10061-02-6	5.29	<5.29	ug/kg dry	
Trichloroethene	79-01-6	5.29	<5.29	ug/kg dry	
Trichlorofluoromethane	75-69-4	5.29	<5.29	ug/kg dry	
Vinyl Acetate	108-05-4	5.29	<5.29	ug/kg dry	
Vinyl chloride	75-01-4	5.29	<5.29	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
1,2-Dichloroethane-d4	10706-07-0	102	72.1-142	
4-Bromofluorobenzene	460-00-4	99	76.1-131	
Dibromofluoromethane	1868-53-7	96	77.6-135	
Toluene-d8	2037-26-5	97	77.8-124	

Date Prepared: 06/17/2024

Preparation Method: EPA 5035A-L

Date Analyzed: 06/18/2024

Analytical Method: EPA 8260D

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Semivolatile Analysis

Parameter	CAS No.	LOQ	Result	Units	Flag
1,2,4-Trichlorobenzene	120-82-1	159	<159	ug/kg dry	
1,2-Dichlorobenzene	95-50-1	159	<159	ug/kg dry	
1,3-Dichlorobenzene	541-73-1	159	<159	ug/kg dry	
1,4-Dichlorobenzene	106-46-7	159	<159	ug/kg dry	
2,2'-Oxybis(1-Chloropropane)	108-60-1	212	<212	ug/kg dry	
2,4,5-Trichlorophenol	95-95-4	212	<212	ug/kg dry	
2,4,6-Trichlorophenol	88-06-2	212	<212	ug/kg dry	
2,4-Dichlorophenol	120-83-2	159	<159	ug/kg dry	
2,4-Dimethylphenol	105-67-9	159	<159	ug/kg dry	
2,4-Dinitrophenol	51-28-5	318	<318	ug/kg dry	4.K
2,4-Dinitrotoluene	121-14-2	212	<212	ug/kg dry	
2,6-Dinitrotoluene	606-20-2	212	<212	ug/kg dry	
2-Chloronaphthalene	91-58-7	159	<159	ug/kg dry	
2-Chlorophenol	95-57-8	159	<159	ug/kg dry	
2-Methylnaphthalene	91-57-6	159	<159	ug/kg dry	
2-Methylphenol (o-cresol)	95-48-7	318	<318	ug/kg dry	
2-Nitroaniline	88-74-4	318	<318	ug/kg dry	
2-Nitrophenol	88-75-5	318	<318	ug/kg dry	
3,3'-Dichlorobenzidine	91-94-1	318	<318	ug/kg dry	4.K
3/4-Methylphenol (m-Cresol/p-Cresol)	108-39-4/106-44-5	159	<159	ug/kg dry	
3-Nitroaniline	99-09-2	212	<212	ug/kg dry	
4,6-Dinitro-2-methylphenol	534-52-1	318	<318	ug/kg dry	4.K
4-Bromophenyl phenyl ether	101-55-3	212	<212	ug/kg dry	
4-Chloro-3-methylphenol	59-50-7	212	<212	ug/kg dry	
4-Chloroaniline	106-47-8	159	<159	ug/kg dry	4.J
4-Chlorophenyl phenyl ether	7005-72-3	212	<212	ug/kg dry	
4-Nitroaniline	100-01-6	318	<318	ug/kg dry	
4-Nitrophenol	100-02-7	318	<318	ug/kg dry	
Acenaphthene	83-32-9	212	<212	ug/kg dry	
Acenaphthylene	208-96-8	159	<159	ug/kg dry	

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Aniline	62-53-3	212	<212	ug/kg dry	4.J, 4.N
Anthracene	120-12-7	212	<212	ug/kg dry	
Benzidine	92-87-5	742	<742	ug/kg dry	
Benzo(a)anthracene	56-55-3	159	<159	ug/kg dry	
Benzo(a)pyrene	50-32-8	159	<159	ug/kg dry	
Benzo(b)fluoranthene	205-99-2	318	<318	ug/kg dry	
Benzo(g,h,i)perylene	191-24-2	159	<159	ug/kg dry	
Benzo(k)fluoranthene	207-08-9	159	<159	ug/kg dry	
Benzoic Acid	65-85-0	424	<424	ug/kg dry	4.N
Benzyl alcohol	100-51-6	424	<424	ug/kg dry	4.J, 4.N
bis(2-Chloroethoxy)methane	111-91-1	159	<159	ug/kg dry	
Bis(2-Chloroethyl)ether	111-44-4	159	<159	ug/kg dry	
Bis(2-Ethylhexyl)phthalate	117-81-7	318	<318	ug/kg dry	
Butyl benzyl phthalate	85-68-7	318	<318	ug/kg dry	
Carbazole	86-74-8	159	<159	ug/kg dry	
Chrysene	218-01-9	212	<212	ug/kg dry	
Dibenzo(a,h)anthracene	53-70-3	159	<159	ug/kg dry	
Dibenzofuran	132-64-9	212	<212	ug/kg dry	
Diethyl phthalate	84-66-2	212	<212	ug/kg dry	
Dimethyl phthalate	131-11-3	212	<212	ug/kg dry	
Di-n-butyl phthalate	84-74-2	318	<318	ug/kg dry	
Di-n-octyl phthalate	117-84-0	318	<318	ug/kg dry	4.K
Fluoranthene	206-44-0	212	<212	ug/kg dry	
Fluorene	86-73-7	212	<212	ug/kg dry	
Hexachlorobenzene	118-74-1	212	<212	ug/kg dry	
Hexachlorobutadiene	87-68-3	212	<212	ug/kg dry	
Hexachlorocyclopentadiene	77-47-4	318	<318	ug/kg dry	
Hexachloroethane	67-72-1	159	<159	ug/kg dry	
Indeno(1,2,3-cd)pyrene	193-39-5	159	<159	ug/kg dry	

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

Parameter	CAS No.	LOQ	Result	Units	Flag
Isophorone	78-59-1	318	<318	ug/kg dry	
Naphthalene	91-20-3	212	<212	ug/kg dry	
n-Decane	124-18-5	159	<159	ug/kg dry	
Nitrobenzene	98-95-3	212	<212	ug/kg dry	
N-Nitrosodimethylamine	62-75-9	159	<159	ug/kg dry	
N-Nitroso-di-n-propylamine	621-64-7	159	<159	ug/kg dry	
N-Nitrosodiphenylamine	86-30-6	159	<159	ug/kg dry	
n-Octadecane	593-45-3	159	<159	ug/kg dry	
Parathion (ethyl)	56-38-2	318	<318	ug/kg dry	
Pentachlorophenol	87-86-5	318	<318	ug/kg dry	
Phenanthrene	85-01-8	212	<212	ug/kg dry	
Phenol	108-95-2	159	<159	ug/kg dry	
Pyrene	129-00-0	212	<212	ug/kg dry	
Pyridine	110-86-1	212	<212	ug/kg dry	

Surrogate	CAS No.	% Recovery	Rec. Limits	Flag
2,4,6-Tribromophenol	118-79-6	79	28.3-111	
2-Fluorobiphenyl	321-60-8	67	30.1-118	
2-Fluorophenol	367-12-4	67	28.1-113	
Nitrobenzene-d5	4165-60-0	63	30.3-117	
Phenol-d6	13127-88-3	66	26.7-119	
Terphenyl-d14	1718-51-0	65	31.4-136	

Date Prepared: 06/10/2024

Preparation Method: EPA 3546

Date Analyzed: 06/12/2024

Analytical Method: EPA 8270E

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY	
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums	
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01	% Solid:94.372
Matrix: Soil	ELAP: #11693	

Total Metals Analysis

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Arsenic	06/12/2024	EPA 6010D	1.67	9.69	mg/kg dry	5.P
Barium	06/12/2024	EPA 6010D	1.50	75.5	mg/kg dry	
Cadmium	06/12/2024	EPA 6010D	1.65	<1.65	mg/kg dry	
Chromium	06/12/2024	EPA 6010D	1.67	38.1	mg/kg dry	
Lead	06/12/2024	EPA 6010D	1.67	17.4	mg/kg dry	
Selenium	06/12/2024	EPA 6010D	3.33	<3.33	mg/kg dry	
Silver	06/12/2024	EPA 6010D	0.37	<0.37	mg/kg dry	

Date Prepared: 06/12/2024 Preparation Method: EPA 3050B

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Mercury	06/12/2024	EPA 7471B	0.02	<0.02	mg/kg dry	

Date Prepared: 06/07/2024 Preparation Method: EPA 7471 B

Client: Innovative Recycling Technologies	Client ID: 458 E 99th St Brooklyn NY
Date (Time) Collected: 06/03/2024 12:00	Sample ID: Drums
Date (Time) Received: 06/06/2024 14:08	Laboratory ID: 4060650-01 % Solid:94.372
Matrix: Soil	ELAP: #11693

General Chemistry Parameters

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Flashpoint	06/07/2024 15:08	EPA 1030	75.0	Negative for Ignitability	°F	

Date Prepared: 06/07/2024 Preparation Method: No Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Corrosivity (pH)	06/07/2024 15:08	EPA 9045D	NA	9.44	units	1.C
Temperature @ pH in C	06/07/2024 15:08	EPA 9045D	NA	21.10	units	1.C

Date Prepared: 06/07/2024 Preparation Method: No Preparation

Parameter	Date Analyzed	Method	LOQ	Result	Units	Flag
Reactive Cyanide	06/14/2024 15:55	SW-846 Ch7 Sec. 7.3	5.30	<5.30	mg/kg dry	
Reactive Sulfide	06/14/2024 15:55	SW-846 Ch7 Sec. 7.3	2.12	<2.12	mg/kg dry	

Date Prepared: 06/12/2024 Preparation Method: Distillation Reactivity

Data Qualifiers Key Reference:

1.C	Holding time exceeded, analyze immediate parameter.
4.J	Continuing Calibration Verification (CCV) quality control levels failed low.
4.K	Continuing Calibration Verification (CCV) quality control levels failed high.
4.N	LCS recovery was below QC acceptance limit.
5.P	SRM recovery was outside QC acceptance limit.
MDL	Minimum Detection Limit
LOQ	Limit of Quantitation
H	Holding Time Exceeded

LONG ISLAND ANALYTICAL LABORATORIES INC.
"TOMORROWS ANALYTICAL SOLUTIONS TODAY"
110 Colin Drive • Holbrook, New York 11741 • Phone (631) 472-3400 • Fax (631) 472-8505 • Email: LIAL@lialinc.com

CHAIN OF CUSTODY / REQUEST FOR ANALYSIS DOCUMENT

4060650

CLIENT NAME/ADDRESS	CONTACT: Jack Ewen	SAMPLER (SIGNATURE)	DATE	TIME	SAMPLE(S) SEALED
IRT	PHONE: 631.225.3044		6/3/24		☐ YES / NO ☑
	FAX: 631.225.3056	SAMPLER NAME (PRINT)	DATE	TIME	CORRECT CONTAINER(S)
		Matthew Copeland	6/3/24		☑ YES / NO ☐

PROJECT LOCATION: 458 E 99th St., Brooklyn, NY

SAMPLES RECEIVED AT: 2 °C

TERMS & CONDITIONS: Accounts are payable in full within thirty days. outstanding balances accrue service charges of 1.5% per month. Tendering of samples to LIAL for analytical testing constitutes agreement by buyer/sampler to LIAL's Standard terms

LABORATORY ID # (For Laboratory Use Only)	MATRIX	TYPE	pH	RES. CHLORINE	PRES.	DATE	TIME	SAMPLE # LOCATION	ANALYSIS REQUIRED: VOCs	SVOCs	Metals	R/I/C									# OF CONTAINERS
1.	S	G/C			1	6/3/24	1200	Drums	X	X	X	X									2
2.																					
3.																					
4.																					
5.																					
6.																					
7.																					
8.																					
9.																					
10.																					
11.																					
12.																					
13.																					
14.																					

MATRIX: S=SOIL; SL=SLUDGE; DW=DRINKING WATER; A=AIR; W=WIPE; PC=PAINT CHIPS; BM= BULK MATERIAL, O=OIL, WW=WASTE WATER

TYPE: G=GRAB; C=COMPOSITE; SS=SPLIT SPOON

PRES: (1) ICE; (2) HCL; (3) H_2SO_4; (4) NAOH; (5) $NA_2S_3O_3$; (6) HNO_3; (7) OTHER

TURNAROUND REQUIRED: ☑ NORMAL ☐ STAT BY / /

COMMENTS / INSTRUCTIONS

RELINQUISHED BY (SIGNATURE)	DATE 6/4/24 TIME 1000	PRINTED NAME Matthew Copeland	RECEIVED BY (SIGNATURE)	DATE TIME	PRINTED NAME
RELINQUISHED BY (SIGNATURE)	DATE 6-6-24 TIME 11:30	PRINTED NAME Patrick Paccione	RECEIVED BY SAMPLE CUSTODIAN	DATE 6-6-24 TIME 1400	PRINTED NAME RR

APPENDIX G

Non-Hazardous Soil Disposal Manifests and Scale Tickets

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	N / A	1	(267) 406-0083	45473 - 2

5. Generator's Name and Mailing Address

458 East Owners LLC
458 East 99th Street
Brooklyn NY 11236
Generator's Phone: 917 861-5369

Att: Wolfgang Michelitsch

Generator's Site Address (if different than mailing address)

6. Transporter 1 Company Name — U.S. EPA ID Number

Innovative Recycling Technologies, Inc. — NYR000134940

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address — U.S. EPA ID Number

JG Environmental, LLC
776 Flory Mill Road
Lancaster PA 17601
Facility's Phone: 717 945-5080

PADEP101712

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	Non Hazardous Sand & Soil Non-DOT Regulated Material	11	DM	3300	P	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information

9.1) 2407-066-SOL

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X Wolfgang Michelitsch — Signature — Month 7 Day 24 Year 24

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:

Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Francis McShane — Signature — Month 7 Day 24 Year 24

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Brian Mich — Signature — Month 7 Day 25 Year 24

169-BLC-O 5 11977 (Rev. 9/09)

DESIGNATED FACILITY TO GENERATOR

458 East

09:09am 07/25/2024
2183 lb GR
09:10am 07/25/2024
1888 lb GR
09:11am 07/25/2024
1931 lb GR
09:13am 07/25/2024
431 lb GR
09:13am 07/25/2024
6433 lb TOTAL ✓

3.2165
tm

APPENDIX H

Data Usability Summary Reports

ENVIRONMENTAL CONSULTING & MANAGEMENT
ROUX ASSOCIATES INC
200 Summit Drive, Suite 500
Burlington, Massachusetts 01803 TEL 781-569-4000

May 8, 2025

Jessica Lam
Project Geologist
Roux Associates, Inc.
Islandia, NY 11749

Re: Data Usability Summary Report (DUSR) for 458 E. 99th Street

Dear Ms. Lam:

Data review was performed for the data packages generated by Pace Analytical for samples collected at 458 E. 99th St. Brooklyn, NY. Air samples collected in April 2025 are discussed in this DUSR.

The data validation was done with guidance from United States Environmental Protection Agency (USEPA)[1] [2] validation documents and included the following items:

- Data completeness
- Laboratory case narratives
- Chain of custody documentation
- Holding times
- Surrogate and internal standard recoveries
- Method Blanks
- Laboratory control samples (LCS)
- Field duplicate samples
- Instrument tunes
- Initial calibration, initial calibration verification, and continuing calibration results

Only items above that have issues potentially affecting data usability are discussed in this report. All of the other items were determined to be acceptable for the DUSR level review, as discussed in NYS DER-10 Appendix B section 2.0. Definitions for data qualifiers are defined at the end of the report.

Data Deliverable Completeness

Full deliverable data packages were provided by the laboratory, which included reporting forms and raw data necessary to validate the reported analytical results.

Sample Receipt/Holding Times

Unless noted below, all samples were received by the laboratory intact and analyzed within the required holding time.

[1] USEPA. *Analysis of Volatile Organic Compounds in Air Contained in Canisters by Method TO-15.* EPA SOP No. HW-31, Revision 6. September 2016.
[2] USEPA. *National Functional Guidelines for Organic Superfund Method Data Review.* EPA 540-R-20-005. November 2020.

Pace Analytical Job: L2522632

VOC Analyses by USEPA TO-15 and TO-15 SIM

The analyte, n-hexane, was non-detect for the field duplicate (DUP-04-10-2025_0411125) but detected in the corresponding sample, IA-SV-1-041125 at a concentration well above the RL. This difference resulted in an unacceptable RPD for n-hexane, and it was given a J flag in sample IA-SV-1-041125.

The concentrations for toluene, isopropanol, and acetone exceeded the calibration curve for DUP-04-10-2025-041125 and IA-SV-1-041125 thus have a high degree of uncertainty in the original samples. The samples were diluted and the three analytes re-run. The concentrations measured in the dilutions should be used for these analytes.

Please do not hesitate to contact me if you have any comments or questions regarding this report.

Sincerely

ROUX ASSOCIATES, INC.



James Hauri, PhD
Senior Scientist

Enclosure: Definitions of Validation Data Qualifiers

Definitions of Validation Data Qualifiers

Qualifier	Definition
U	The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J	The analyte was positively identified; the associated numerical value is an approximate concentration of the analyte in the sample. For surrogates or TIC, result is an estimate.
J-	Result is an estimate. Low biased
J+	Result is an estimate. High biased
UJ	The analyte was not detected above the reported sample quantitation limit. The reported quantitation limit is an estimate and may be inaccurate or imprecise.
R	The sample results are rejected and unusable. The analyte may or may not be present.

Client and Laboratory Sample IDs

Project Name: 458 E 99TH ST
Project Number: 4078.0001Y000

Lab Number: L2522632
Report Date: 04/24/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2522632-01	IA-SV-1	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:30	04/11/25
L2522632-02	DUP-04.10.2025	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:35	04/11/25
L2522632-03	AA-01	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:05	04/11/25

APPENDIX I

Laboratory Analytical Reports



Pace Analytical Services

Laboratory Code: 11148

SDG Number: L2522632

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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Project Number: 4078.0001Y000

Lab Number: L2522632
Report Date: 04/24/25

Lab Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2522632-01	IA-SV-1	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:30	04/11/25
L2522632-02	DUP-04.10.2025	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:35	04/11/25
L2522632-03	AA-01	AIR	458 E 99TH ST BROOKLYN, NY	04/11/25 01:05	04/11/25

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 April 8, 2025. The canister certification data is provided as an addendum.

L2522632-01: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2522632-01D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

L2522632-02: The sample was re-analyzed on dilution in order to quantitate the results within the calibration range. The result(s) should be considered estimated, and are qualified with an E flag, for any compound(s) that exceeded the calibration range in the initial analysis. The re-analysis was performed only for the compound(s) that exceeded the calibration range.

L2522632-02D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

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: 04/24/25

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 : L2522632

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 4078.0001Y000
Project Name : 458 E 99TH ST

Received : 11-APR-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?	**NO**
5) Are samples in appropriate containers for requested analysis?	**YES**
6) Are samples properly preserved for requested analysis?	**YES**
7) Are samples within holding time for requested analysis?	**YES**
8) All sampling equipment returned?	**YES**

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

PACE ANALYTICAL SERVICES
LOGIN CHAIN OF CUSTODY REPORT
Apr 24 2025, 02:40 pm

Login Number: L2522632
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 4078.0001Y000
Received: 11APR25 Due Date: 18APR25

Sample #	Client ID	Mat	PR	Collected
L2522632-01	IA-SV-1	10	S0	11APR25 01:30
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 04/18/25				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2522632-02	DUP-04.10.2025	10	S0	11APR25 01:35
TO15 SIM for 7 NYS DMCs Package Due Date: 04/18/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2522632-03	AA-01	10	S0	11APR25 01:05
TO15 SIM for 7 NYS DMCs Package Due Date: 04/18/25				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				

Logged By: Tyler Hatch

AIR ANALYSIS

PAGE 1 OF 1

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 4/12/25

ALPHA Job #: L2522632

Client Information

Client: ROUX
Address: 209 SHAFFER ST
ISLANDIA, NY, 11749
Phone: 631-630-2365
Fax:
Email: DKAISER@ROUXINC.COM

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 458 EAST 99TH ST
Project Location: 458 EAST 99TH ST BROOKLYN, NY
Project #: 4078.0001Y000
Project Manager: DAVID KAISER
ALPHA Quote #:

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

Other Project Specific Requirements/Comments:

Project-Specific Target Compound List: ☐

All Columns Below Must Be Filled Out

ANALYSIS

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	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH ☐ Ilistead Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
22632-01	IA-SV-1	04.11.2025	1705	0130	-29.56	-4.33	AA	RM	6L	2726	01888	✓					
02	DUP-04.10.2025	04.11.2025	1710	0135	-30.35	-4.62	AA	RM	6L	1644	01694	✓					
03	AA-01	04.11.2025	1715	0105	-30.39	-4.01	AA	RM	6L	4248	02365	✓					

*SAMPLE MATRIX CODES

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

Container Type: CS

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:
ROBERT MCSWEENEY	04.11.2025/1130	GREENPOINT DROPOFF	04.11.2025/1130
[illegible]	4/11/25 13:15	[illegible]	4/11/25 13:15
[illegible]	4/11/25 16:35	[illegible]	4/11/25 16:57
	4/11/25	4/14 2030	4/12 030

4/12/25 030

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
L2522632-01	IA-SV-1	01888	Flow 5	04/08/25	515090		-	-	-	Pass	10.0	10.0	0
L2522632-01	IA-SV-1	2726	6.0L Can	04/08/25	515090	L2519638-06	Pass	-28.7	-4.0	-	-	-	-
L2522632-02	DUP-04.10.2025	01694	Flow 4	04/08/25	515090		-	-	-	Pass	10.0	10.0	0
L2522632-02	DUP-04.10.2025	1644	6.0L Can	04/08/25	515090	L2519638-06	Pass	-29.1	-3.3	-	-	-	-
L2522632-03	AA-01	02365	Flow 4	04/08/25	515090		-	-	-	Pass	10.0	10.2	2
L2522632-03	AA-01	4248	6.0L Can	04/08/25	515090	L2519638-06	Pass	-29.2	-2.7	-	-	-	-

Air Canister Certification Results

Lab ID: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 04/03/25 08:16
Analyst: JFI

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	95		60-140
Bromochloromethane	96		60-140

Air Canister Certification Results

Lab ID: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 04/03/25 08:16
Analyst: JFI

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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: L2519638-06
Client ID: CAN 3950 SHELF 41
Sample Location:

Date Collected: 04/02/25 14:00
Date Received: 04/02/25
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: L2519638-06 Date Collected: 04/02/25 14:00
Client ID: CAN 3950 SHELF 41 Date Received: 04/02/25
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	95		60-140
bromochloromethane	98		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	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2057225-3 **Analysis Date** : 04/22/25 13:33	**File ID**	: R263180
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	10.8	108				-	70-130	-
Chloromethane	10	10.3	103				-	70-130	-
Freon-114	10	12.0	120				-	70-130	-
Vinyl chloride	10	11.8	118				-	70-130	-
1,3-Butadiene	10	10.2	102				-	70-130	-
Bromomethane	10	12.1	121				-	70-130	-
Chloroethane	10	10.9	109				-	70-130	-
Ethanol	50	45.0	90				-	40-160	-
Vinyl bromide	10	12.4	124				-	70-130	-
Acetone	50	56.3	113				-	40-160	-
Trichlorofluoromethane	10	11.7	117				-	70-130	-
Isopropanol	25	22.4	90				-	40-160	-
1,1-Dichloroethene	10	12.9	129				-	70-130	-
Tertiary butyl Alcohol	10	9.44	94				-	70-130	-
Methylene chloride	10	11.7	117				-	70-130	-
3-Chloropropene	10	10.4	104				-	70-130	-
Carbon disulfide	10	11.6	116				-	70-130	-
Freon-113	10	12.0	120				-	70-130	-
trans-1,2-Dichloroethene	10	11.1	111				-	70-130	-
1,1-Dichloroethane	10	11.4	114				-	70-130	-
Methyl tert butyl ether	10	10.6	106				-	70-130	-
2-Butanone	10	9.37	94				-	70-130	-
cis-1,2-Dichloroethene	10	10.4	104				-	70-130	-
Ethyl Acetate	10	8.94	89				-	70-130	-
Chloroform	10	10.8	108				-	70-130	-
Tetrahydrofuran	10	10.5	105				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2057225-3 **Analysis Date** : 04/22/25 13:33	**File ID**	: R263180
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	10.2	102				-	70-130	-
n-Hexane	10	10.4	104				-	70-130	-
1,1,1-Trichloroethane	10	10.8	108				-	70-130	-
Benzene	10	10.8	108				-	70-130	-
Carbon tetrachloride	10	10.9	109				-	70-130	-
Cyclohexane	10	10.1	101				-	70-130	-
1,2-Dichloropropane	10	11.2	112				-	70-130	-
Bromodichloromethane	10	11.3	113				-	70-130	-
1,4-Dioxane	10	10.8	108				-	70-130	-
Trichloroethene	10	10.8	108				-	70-130	-
2,2,4-Trimethylpentane	10	10.8	108				-	70-130	-
Heptane	10	10.1	101				-	70-130	-
cis-1,3-Dichloropropene	10	11.6	116				-	70-130	-
4-Methyl-2-pentanone	10	10.6	106				-	70-130	-
trans-1,3-Dichloropropene	10	12.4	124				-	70-130	-
1,1,2-Trichloroethane	10	11.6	116				-	70-130	-
Toluene	10	11.0	110				-	70-130	-
2-Hexanone	10	10.4	104				-	70-130	-
Dibromochloromethane	10	11.7	117				-	70-130	-
1,2-Dibromoethane	10	11.9	119				-	70-130	-
Tetrachloroethene	10	10.9	109				-	70-130	-
Chlorobenzene	10	11.0	110				-	70-130	-
Ethylbenzene	10	10.8	108				-	70-130	-
p/m-Xylene	20	22.3	112				-	70-130	-
Bromoform	10	11.9	119				-	70-130	-
Styrene	10	11.2	112				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2057225-3 **Analysis Date** : 04/22/25 13:33	**File ID**	: R263180
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	12.0	120				-	70-130	-
o-Xylene	10	11.1	111				-	70-130	-
4-Ethyltoluene	10	11.2	112				-	70-130	-
1,3,5-Trimethylbenzene	10	11.2	112				-	70-130	-
1,2,4-Trimethylbenzene	10	11.6	116				-	70-130	-
Benzyl chloride	10	8.36	84				-	70-130	-
1,3-Dichlorobenzene	10	12.0	120				-	70-130	-
1,4-Dichlorobenzene	10	11.5	115				-	70-130	-
1,2-Dichlorobenzene	10	11.5	115				-	70-130	-
1,2,4-Trichlorobenzene	10	11.0	110				-	70-130	-
Naphthalene	10	8.93	89				-	70-130	-
Hexachlorobutadiene	10	10.4	104				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab Sample ID	: WG2057225-4	**Lab File ID**	: R263182
Instrument ID	: AIRLAB26		
Matrix	: AIR	**Analysis Date**	: 04/22/25 15:32

Client Sample No.	Lab Sample ID	Analysis Date
WG2057225-3LCS	WG2057225-3	04/22/25 13:33
AA-01	L2522632-03	04/22/25 17:49
REC-1-707(AP)DUP	WG2057225-5	04/23/25 00:26
IA-SV-1	L2522632-01	04/23/25 01:30
DUP-04.10.2025	L2522632-02	04/23/25 02:03
IA-SV-1	L2522632-01D	04/23/25 07:44
DUP-04.10.2025	L2522632-02D	04/23/25 08:14

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/03/25 00:31
Tune Standard	: WG2049329-1	**Tune File ID**	: R262653_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.6
75	30.0 - 66.0% of mass 95	41.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	91
175	4.0 - 9.0% of mass 174	7.1 (7.8)1
176	93.0 - 101% of mass 174	87.7 (96.4)1
177	5.0 - 9.0% of mass 176	5.9 (6.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1949027-1	R262657	04/03/25 02:36
STD0.5	R1949027-2	R262658	04/03/25 03:11
STD1.0	R1949027-3	R262659	04/03/25 03:47
STD5.0	R1949027-4	R262660	04/03/25 04:21
STD010	R1949027-5	R262661	04/03/25 04:57
STD020	R1949027-6	R262662	04/03/25 05:30
STD050	R1949027-7	R262663	04/03/25 06:04
STD100	R1949027-8	R262664	04/03/25 06:40
ICV Quant Report	R1949027-9	R262667	04/03/25 15:34

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/22/25 12:15
Tune Standard	: WG2057225-1	**Tune File ID**	: R263178_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	42.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (.7)1
174	50.0 - 120.0% of mass 95	89.2
175	4.0 - 9.0% of mass 174	6.6 (7.4)1
176	93.0 - 101% of mass 174	88.3 (99)1
177	5.0 - 9.0% of mass 176	5.7 (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
WG2057225-2CCAL	WG2057225-2	R263180	04/22/25 13:33
WG2057225-3LCS	WG2057225-3	R263180	04/22/25 13:33
WG2057225-4BLANK	WG2057225-4	R263182	04/22/25 15:32
AA-01	L2522632-03	R263184	04/22/25 17:49
WG2057225-5DUP	WG2057225-5	R263196	04/23/25 00:26
IA-SV-1	L2522632-01	R263198	04/23/25 01:30
DUP-04.10.2025	L2522632-02	R263199	04/23/25 02:03
IA-SV-1	L2522632-01D	R263205	04/23/25 07:44
DUP-04.10.2025	L2522632-02D	R263206	04/23/25 08:14

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/22/25 13:33:00
Sample No	: WG2057225-2	**Lab File ID**	: R263180

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG2057225-2	158106	3.50	650619	4.37	77867	6.45
Upper Limit	221348	3.83	910867	4.70	109014	6.78
Lower Limit	94864	3.17	390371	4.04	46720	6.12
Sample ID						
WG2057225-3 LCS	158106	3.50	650619	4.37	77867	6.45
WG2057225-4 BLANK	159716	3.51	663892	4.37	79944	6.46
AA-01	154981	3.51	634360	4.37	76535	6.45
REC-1-707(AP) DUP	155102	3.51	644233	4.37	79309	6.45
IA-SV-1	160790	3.51	658657	4.37	85833	6.45
DUP-04.10.2025	160774	3.52	659653	4.37	86317	6.46
IA-SV-1	160163	3.51	655784	4.37	79742	6.45
DUP-04.10.2025	162077	3.51	670604	4.37	79832	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: 04/17/25
Created By: Jason Hebert
File: PM19301-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Generic Air Can for Bottleorder

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 Pace Analytical Services.

Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Generic Air Can for Bottleorder

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	1	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	0.19	0.059	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

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Volatile Organics in Air: TO-15 (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Generic Air Can for Bottleorder

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

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Please Note that the information provided in this table is subject to change at anytime at the discretion of Pace Analytical Services.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-01	Date Collected	: 04/11/25 01:30
Client ID	: IA-SV-1	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/23/25 01:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263198	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	0.444	0.200	--	2.20	0.989	--	
74-87-3	Chloromethane	0.601	0.200	--	1.24	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	126	5.00	--	237	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	594	1.00	--	1410	2.38	--	E
75-69-4	Trichlorofluoromethane	0.220	0.200	--	1.24	1.12	--	
67-63-0	Isopropanol	385	1.00	--	946	2.46	--	E
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	2.05	0.500	--	7.12	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.09	0.500	--	6.16	1.47	--	
141-78-6	Ethyl Acetate	18.1	0.500	--	65.2	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	0.969	0.200	--	3.42	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-01	Date Collected	: 04/11/25 01:30
Client ID	: IA-SV-1	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/23/25 01:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263198	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	3.02	0.200	--	10.4	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	0.973	0.200	--	3.99	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.817	0.500	--	3.35	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	211	0.200	--	795	0.754	--	E
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	12.4	0.200	--	53.9	0.869	--	
179601-23-1	p/m-Xylene	51.3	0.400	--	223	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.614	0.200	--	2.61	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	16.2	0.200	--	70.4	0.869	--	
622-96-8	4-Ethyltoluene	0.265	0.200	--	1.30	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.322	0.200	--	1.58	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	1.15	0.200	--	5.65	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	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-01	Date Collected	: 04/11/25 01:30
Client ID	: IA-SV-1	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/23/25 01:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263198	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	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-01D	**Date Collected**	: 04/11/25 01:30
Client ID	: IA-SV-1	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/23/25 07:44
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R263205	**Instrument ID**	: AIRLAB26
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
67-64-1	Acetone	715	5.00	--	1700	11.9	--	
67-63-0	Isopropanol	419	5.00	--	1030	12.3	--	
108-88-3	Toluene	376	1.00	--	1420	3.77	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-02	Date Collected	: 04/11/25 01:35
Client ID	: DUP-04.10.2025	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/23/25 02:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263199	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	0.480	0.200	--	2.37	0.989	--	
74-87-3	Chloromethane	0.617	0.200	--	1.27	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	135	5.00	--	254	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	618	1.00	--	1470	2.38	--	E
75-69-4	Trichlorofluoromethane	0.238	0.200	--	1.34	1.12	--	
67-63-0	Isopropanol	408	1.00	--	1000	2.46	--	E
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	2.18	0.500	--	7.57	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	2.33	0.500	--	6.87	1.47	--	
141-78-6	Ethyl Acetate	20.1	0.500	--	72.4	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-02	Date Collected	: 04/11/25 01:35
Client ID	: DUP-04.10.2025	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/23/25 02:03
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263199	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	3.46	0.200	--	11.9	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	1.07	0.200	--	4.39	0.820	--	
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	0.856	0.500	--	3.51	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	222	0.200	--	837	0.754	--	E
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	13.2	0.200	--	57.3	0.869	--	
179601-23-1	p/m-Xylene	54.7	0.400	--	238	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	0.648	0.200	--	2.76	0.852	--	
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	17.3	0.200	--	75.1	0.869	--	
622-96-8	4-Ethyltoluene	0.273	0.200	--	1.34	0.983	--	
108-67-8	1,3,5-Trimethylbenzene	0.345	0.200	--	1.70	0.983	--	
95-63-6	1,2,4-Trimethylbenzene	1.18	0.200	--	5.80	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	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-02	**Date Collected**	: 04/11/25 01:35
Client ID	: DUP-04.10.2025	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/23/25 02:03
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R263199	**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	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-02D	**Date Collected**	: 04/11/25 01:35
Client ID	: DUP-04.10.2025	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/23/25 08:14
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R263206	**Instrument ID**	: AIRLAB26
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
67-64-1	Acetone	752	5.00	--	1790	11.9	--	
67-63-0	Isopropanol	424	5.00	--	1040	12.3	--	
108-88-3	Toluene	394	1.00	--	1480	3.77	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-03	Date Collected	: 04/11/25 01:05
Client ID	: AA-01	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/22/25 17:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263184	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	0.492	0.200	--	2.43	0.989	--	
74-87-3	Chloromethane	0.593	0.200	--	1.22	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	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	15.4	1.00	--	36.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.228	0.200	--	1.28	1.12	--	
67-63-0	Isopropanol	8.89	1.00	--	21.9	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	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: L2522632-03	Date Collected	: 04/11/25 01:05
Client ID	: AA-01	Date Received	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	Date Analyzed	: 04/22/25 17:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263184	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	6.57	0.200	--	24.8	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	0.236	0.200	--	1.03	0.869	--	
179601-23-1	p/m-Xylene	0.916	0.400	--	3.98	1.74	--	
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	0.289	0.200	--	1.26	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	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-03	**Date Collected**	: 04/11/25 01:05
Client ID	: AA-01	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/22/25 17:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: KJD
Lab File ID	: R263184	**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	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: WG2057225-4	Date Collected	: NA
Client ID	: WG2057225-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/22/25 15:32
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263182	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	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: WG2057225-4	Date Collected	: NA
Client ID	: WG2057225-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/22/25 15:32
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263182	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	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2522632
Project Name	: 458 E 99TH ST	Project Number	: 4078.0001Y000
Lab ID	: WG2057225-4	Date Collected	: NA
Client ID	: WG2057225-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 04/22/25 15:32
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: KJD
Lab File ID	: R263182	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\04\0422T\
Data File : R263184.D
Acq On : 22 Apr 2025 05:49 pm
Operator : AIRLAB26:KJD
Sample : L2522632-03,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:58:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	154981	10.000	ppbV	0.00
Standard Area = 158106			Recovery =	98.02%		
43) 1,4-difluorobenzene	4.366	114	634360	10.000	ppbV	0.00
Standard Area = 650619			Recovery =	97.50%		
67) chlorobenzene-D5	6.449	54	76535	10.000	ppbV	0.00
Standard Area = 77867			Recovery =	98.29%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.025	85	16497	0.492	ppbV	97
6) chloromethane	2.079	50	5884	0.593	ppbV	96
7) Freon-114	2.107		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	2.283		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.365	31	23061	4.433	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.506	43	196995	15.427	ppbV #	97
21) trichlorofluoromethane	2.551	101	6995	0.228	ppbV	93
22) isopropyl alcohol	2.568	45	135498	8.891	ppbV	98
27) tertiary butyl alcohol	2.741	59	1271	0.056	ppbV #	27
28) methylene chloride	2.760	49	2064	0.196	ppbV	87
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	2.846	101	2090	0.079	ppbV #	86
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	3.288	43	5326	0.253	ppbV #	96
38) Ethyl Acetate	0.000		0	N.D.	d	
39) chloroform	3.561		0	N.D.		
40) Tetrahydrofuran	3.747	42	1403	0.137	ppbV #	88
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.546	57	2908	0.156	ppbV #	37
50) benzene	4.186	78	3816	0.088	ppbV #	91
53) cyclohexane	4.309	56	2045	0.110	ppbV #	75
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263184.D
Acq On : 22 Apr 2025 05:49 pm
Operator : AIRLAB26:KJD
Sample : L2522632-03,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:58:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

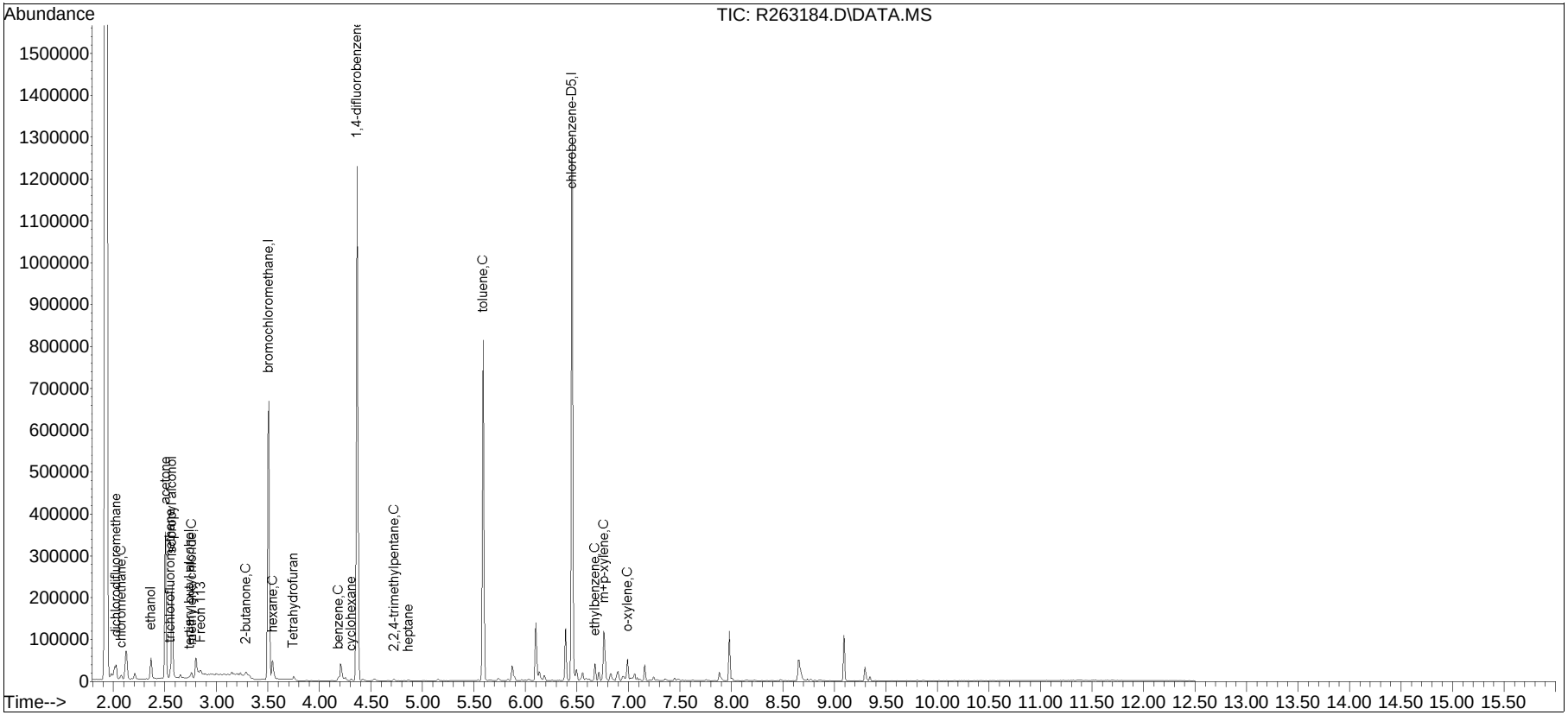
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.724	57	2265	0.040	ppbV #	89
62) heptane	4.865	43	651	0.036	ppbV #	70
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.158		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	364329	6.568	ppbV	100
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D. d		
81) ethylbenzene	6.673	91	16760	0.236	ppbV	96
83) m+p-xylene	6.760	91	50869	0.916	ppbV	96
84) bromoform	0.000		0	N.D.		
85) styrene	6.940		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d		
87) o-xylene	6.993	91	15823	0.289	ppbV	94
96) 4-ethyl toluene	7.643		0	N.D.		
97) 1,3,5-trimethylbenzene	7.691		0	N.D.		
99) 1,2,4-trimethylbenzene	7.899		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D. d		
102) 1,3-dichlorobenzene	0.000		0	N.D. d		
103) 1,4-dichlorobenzene	8.002		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.195		0	N.D.		
116) naphthalene	9.242		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

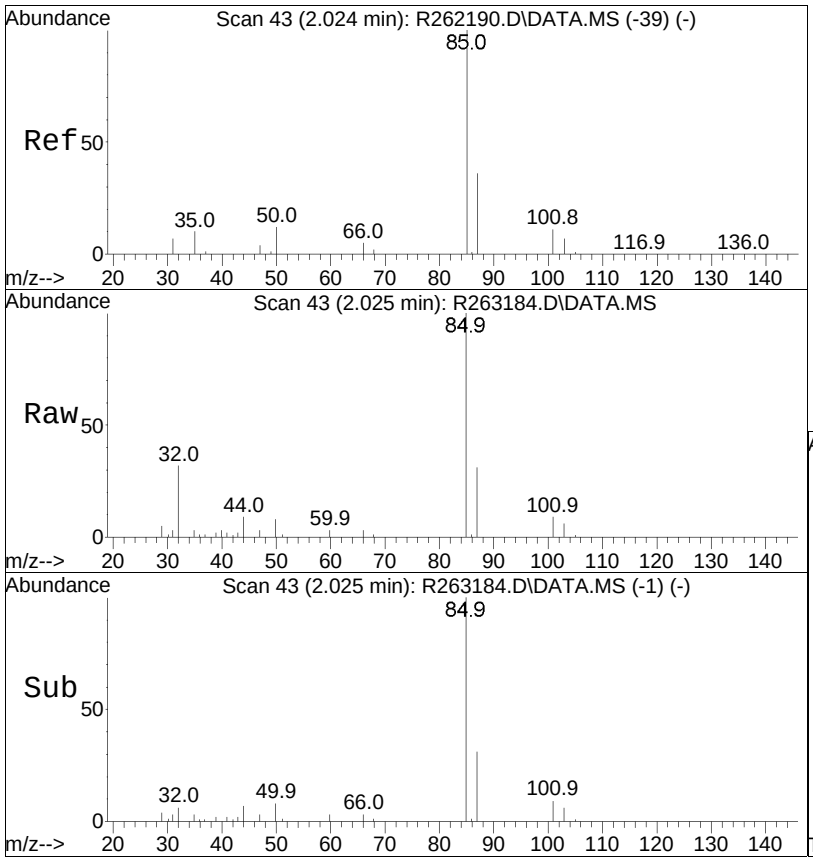
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263184.D
Acq On : 22 Apr 2025 05:49 pm
Operator : AIRLAB26:KJD
Sample : L2522632-03,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:58:46 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

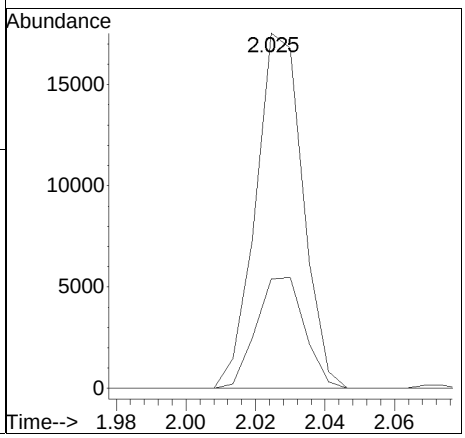


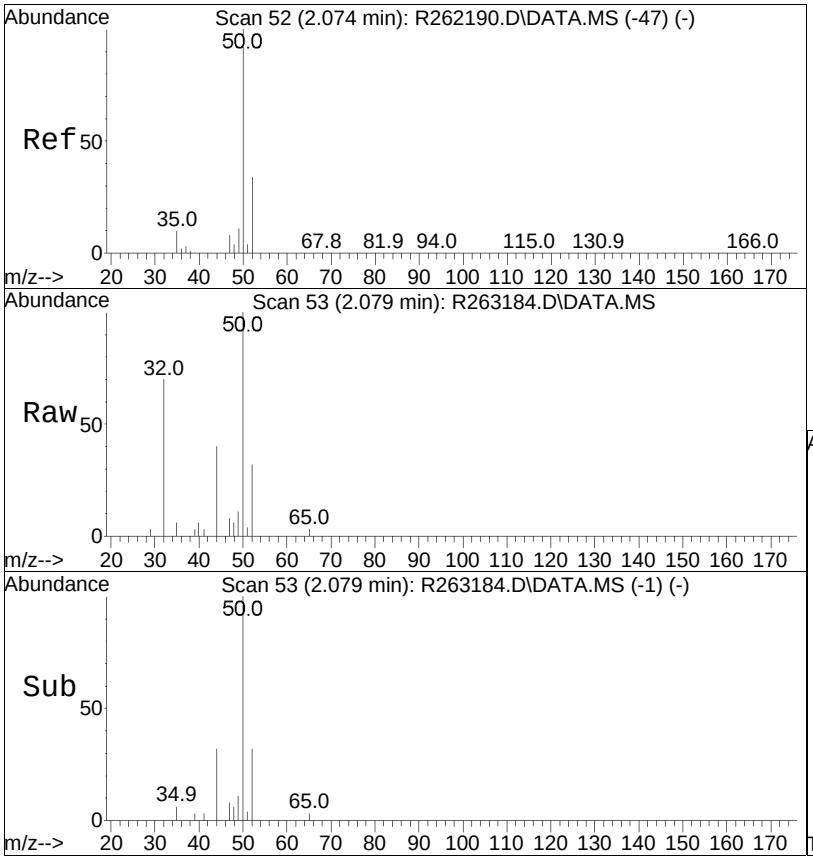


#5
dichlorodifluoromethane
Concen: 0.49 ppbV
RT: 2.025 min Scan# 43
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 85 Resp: 16497

Ion	Ratio	Lower	Upper
85	100		
87	30.8	26.0	39.0

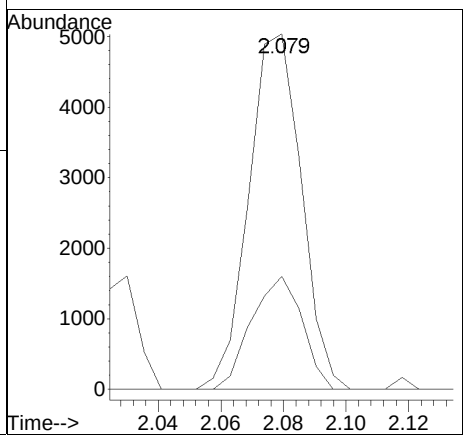


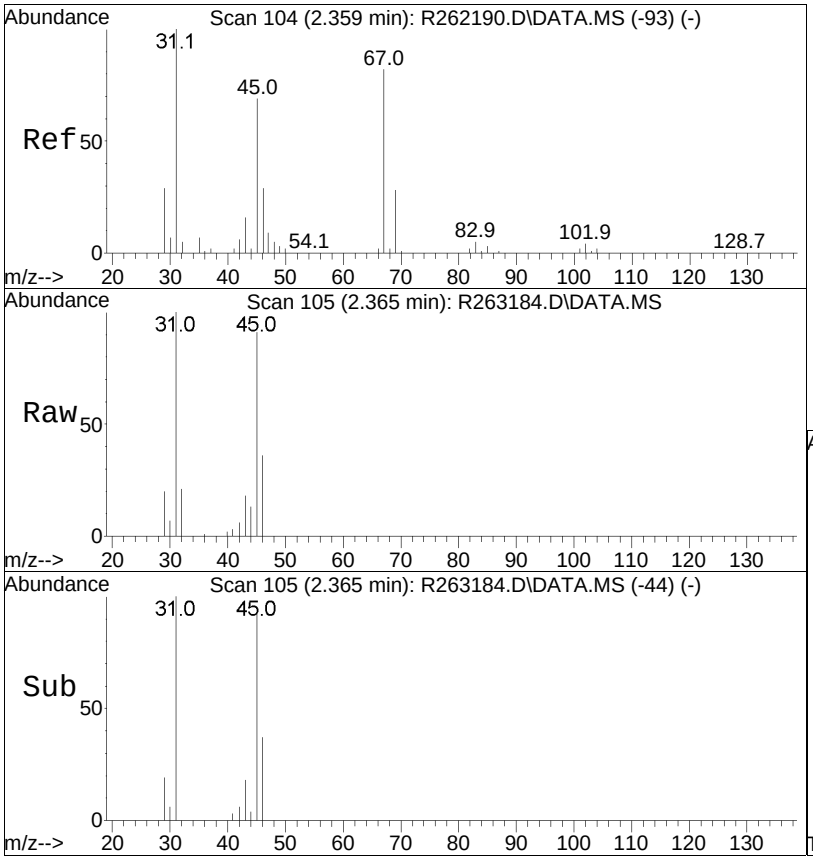


#6
chloromethane
Concen: 0.59 ppbV
RT: 2.079 min Scan# 53
Delta R.T. 0.006 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 50 Resp: 5884

Ion	Ratio	Lower	Upper
50	100		
52	31.8	27.1	40.7

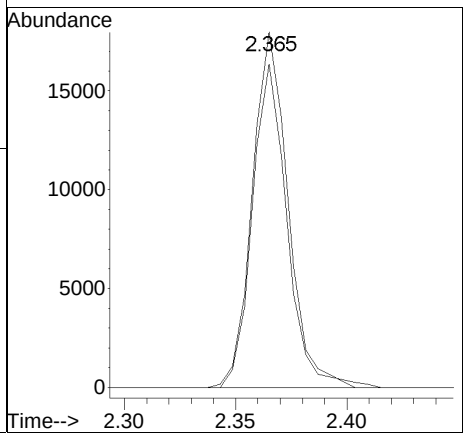


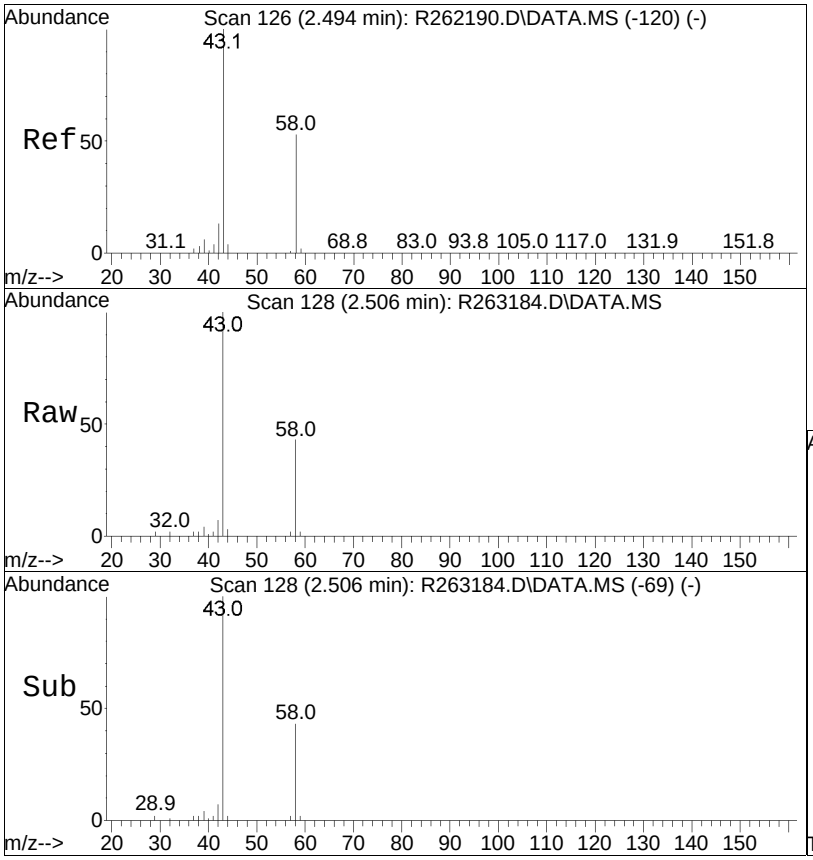


#15
ethanol
Concen: 4.43 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.006 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 31 Resp: 23061

Ion	Ratio	Lower	Upper
31	100		
45	91.0	64.3	96.5

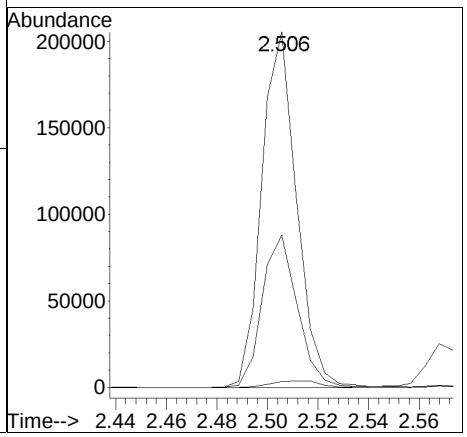


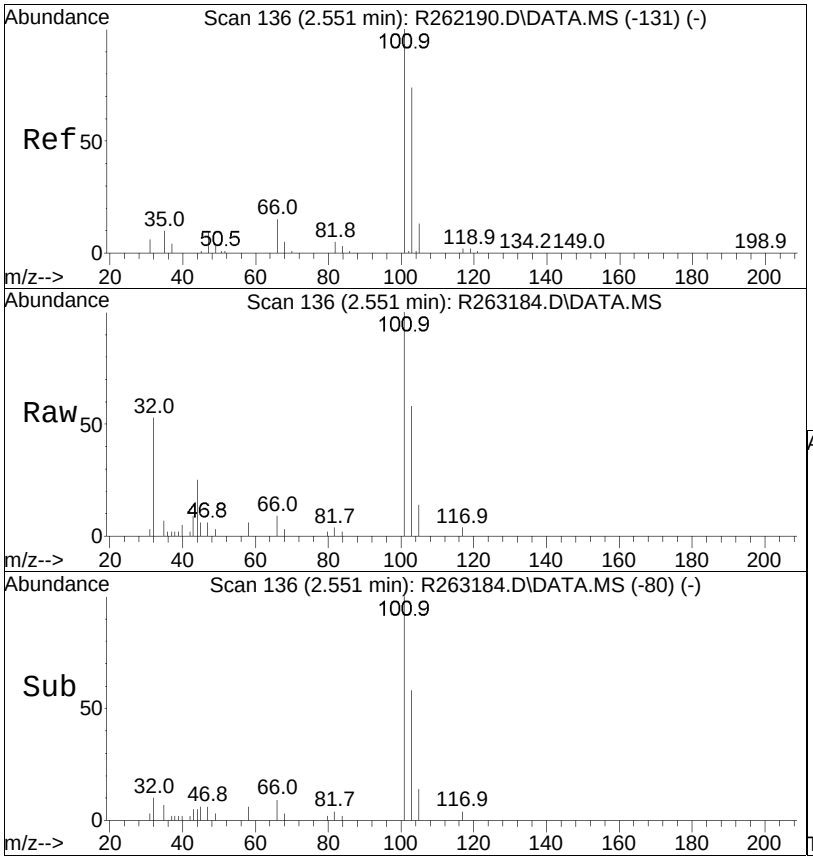


#19
acetone
Concen: 15.43 ppbV
RT: 2.506 min Scan# 128
Delta R.T. 0.006 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 43 Resp: 196995

Ion	Ratio	Lower	Upper
43	100		
58	42.9	32.9	49.3
57	1.6	1.0	1.4#

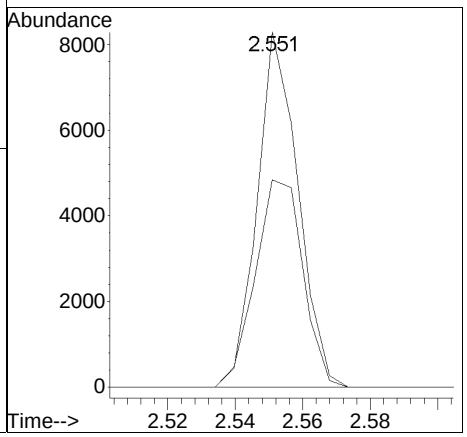


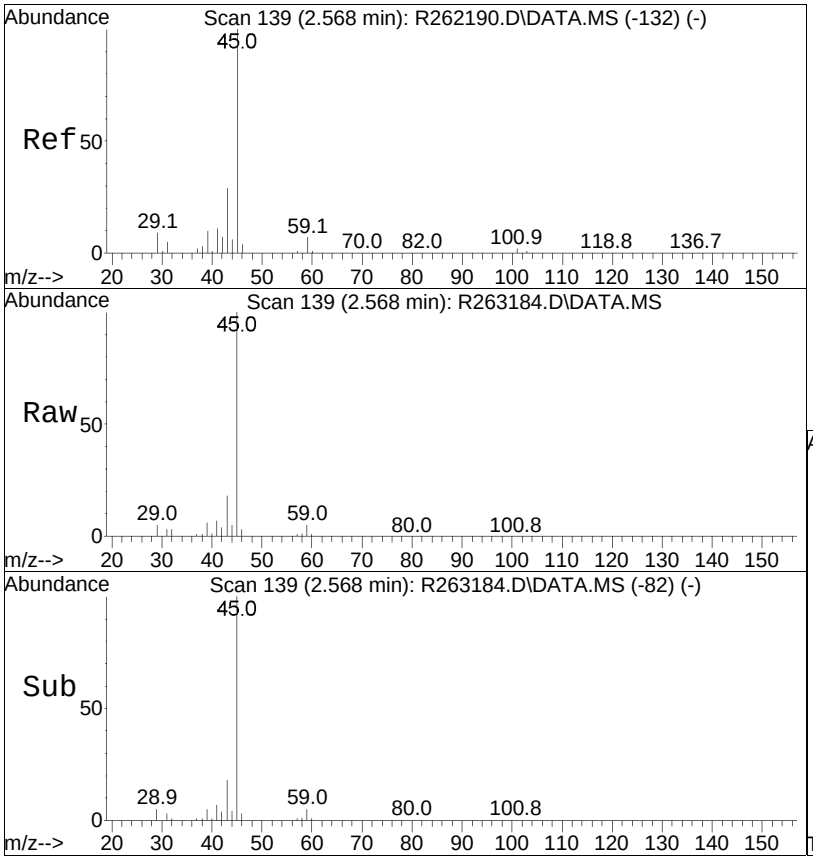


#21
trichlorofluoromethane
Concen: 0.23 ppbV
RT: 2.551 min Scan# 136
Delta R.T. -0.006 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion:101 Resp: 6995

Ion	Ratio	Lower	Upper
101	100		
103	58.4	50.9	76.3

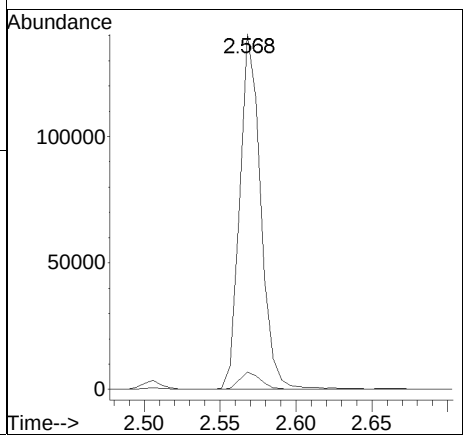


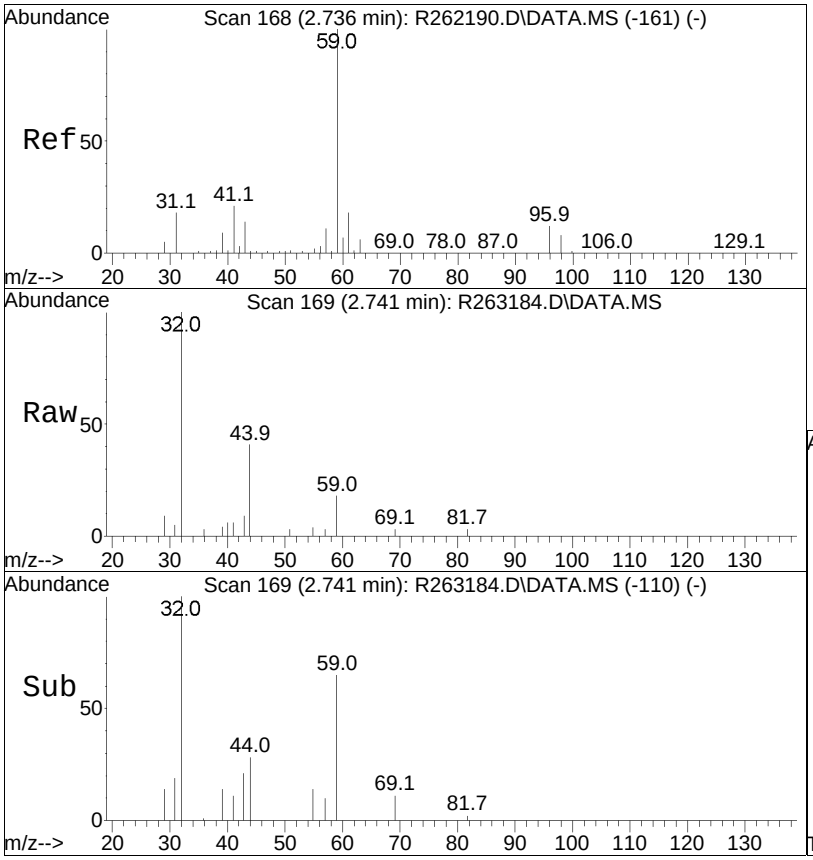


#22
isopropyl alcohol
Concen: 8.89 ppbV
RT: 2.568 min Scan# 139
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 45 Resp: 135498

Ion	Ratio	Lower	Upper
45	100		
59	4.9	4.4	6.6

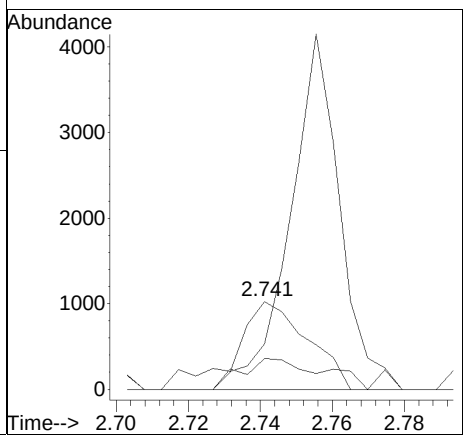


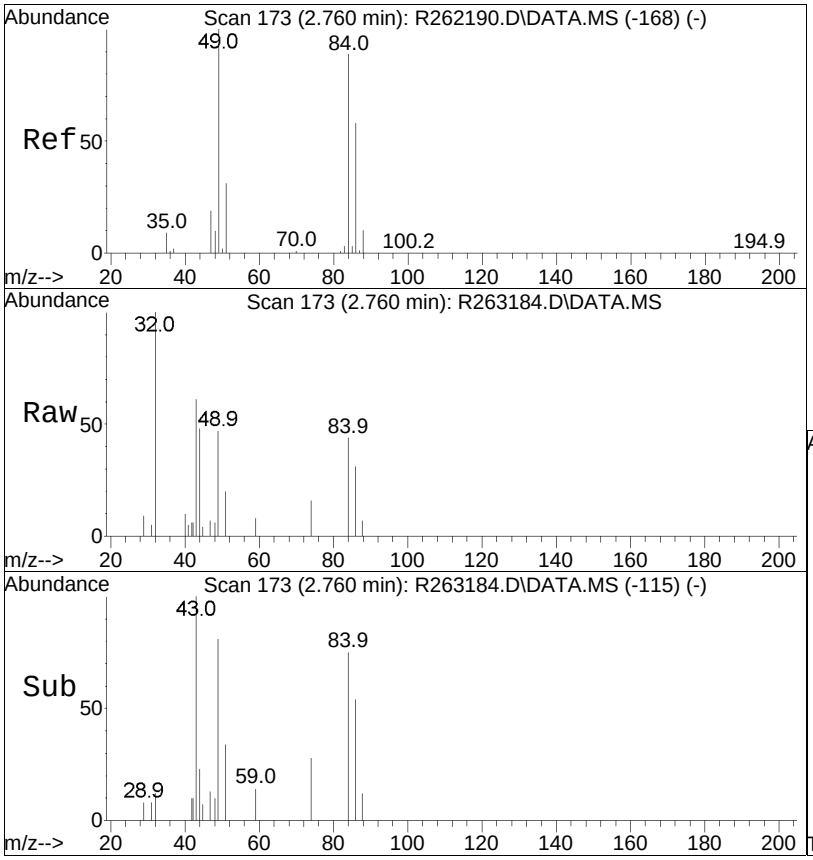


#27
tertiary butyl alcohol
Concen: 0.06 ppbV
RT: 2.741 min Scan# 169
Delta R.T. 0.005 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 59 Resp: 1271

Ion	Ratio	Lower	Upper
59	100		
41	35.2	12.3	18.5#
43	51.9	8.6	12.8#

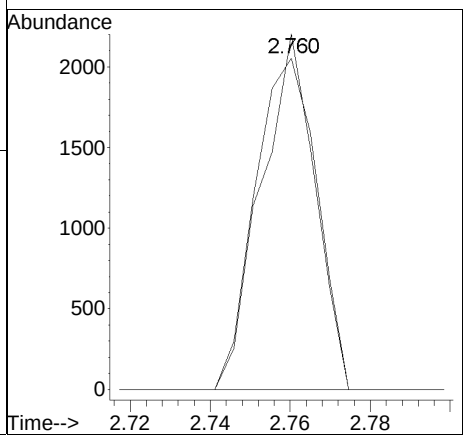


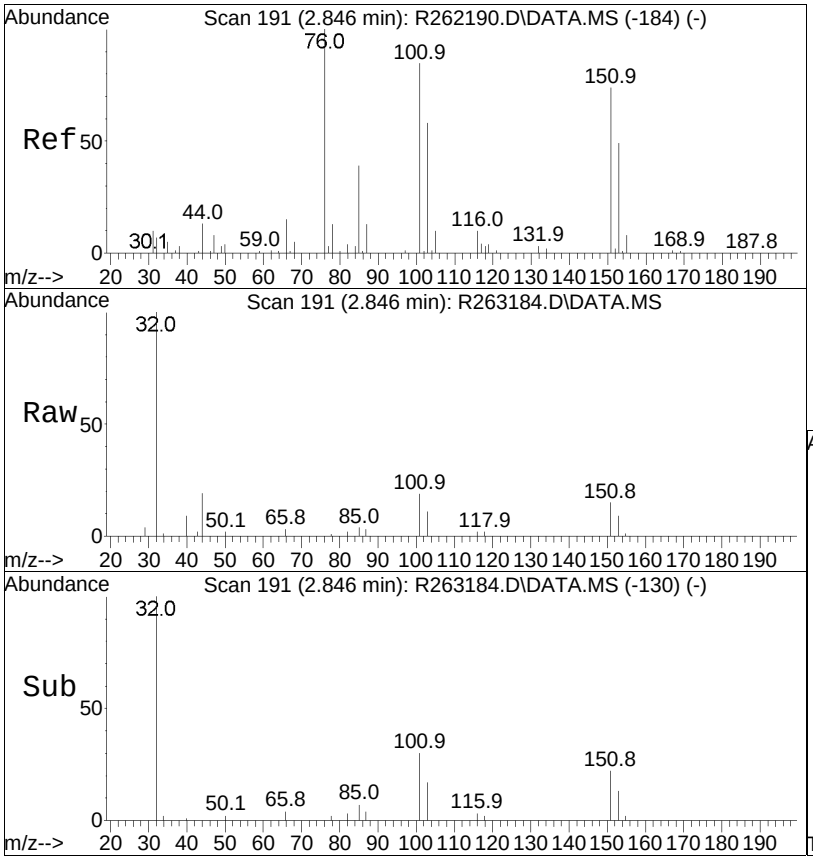


#28
methylene chloride
Concen: 0.20 ppbV
RT: 2.760 min Scan# 173
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 49 Resp: 2064

Ion	Ratio	Lower	Upper
49	100		
84	93.2	85.3	127.9

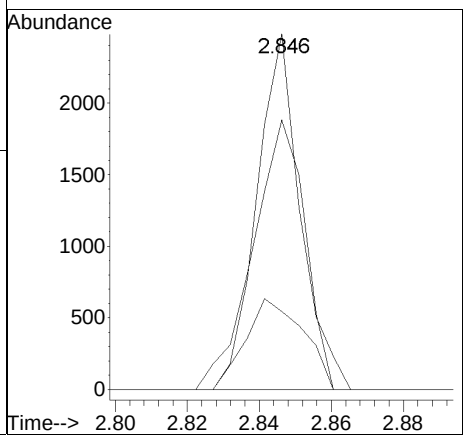


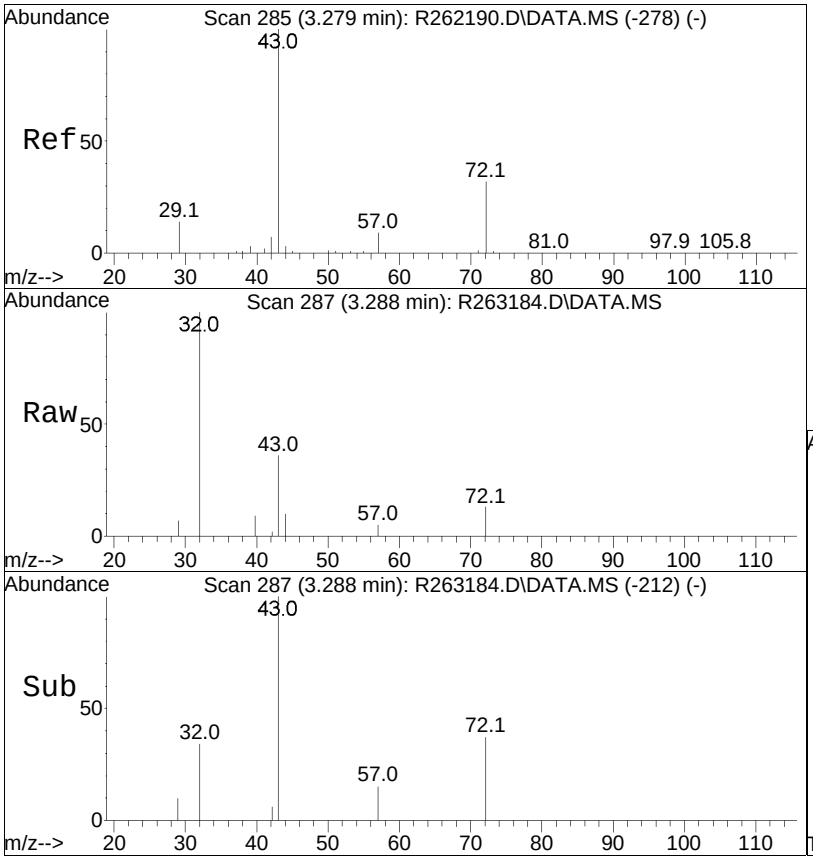


#31
Freon 113
Concen: 0.08 ppbV
RT: 2.846 min Scan# 191
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion:101 Resp: 2090

Ion	Ratio	Lower	Upper
101	100		
85	22.0	29.9	44.9#
151	75.8	67.5	101.3

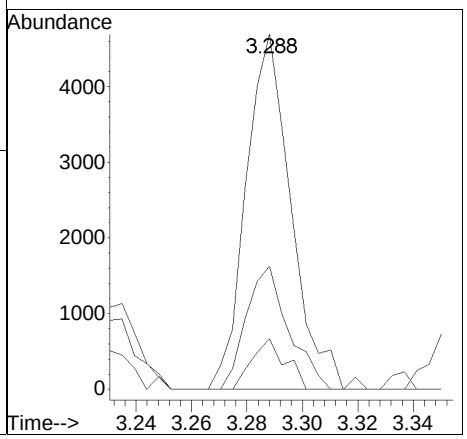


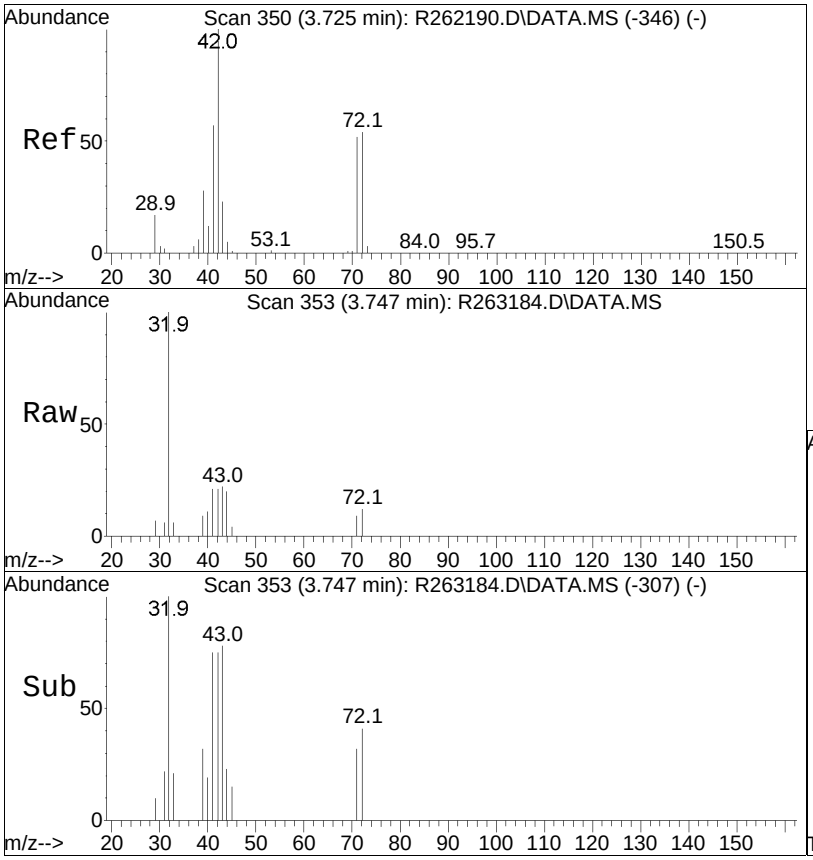


#36
2-butanone
Concen: 0.25 ppbV
RT: 3.288 min Scan# 287
Delta R.T. 0.009 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 43 Resp: 5326

Ion	Ratio	Lower	Upper
43	100		
72	34.7	27.1	40.7
57	14.3	7.4	11.2#

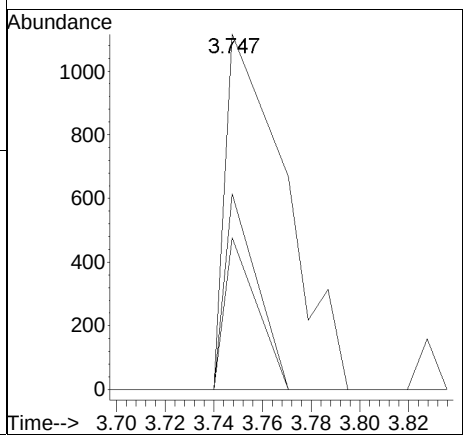


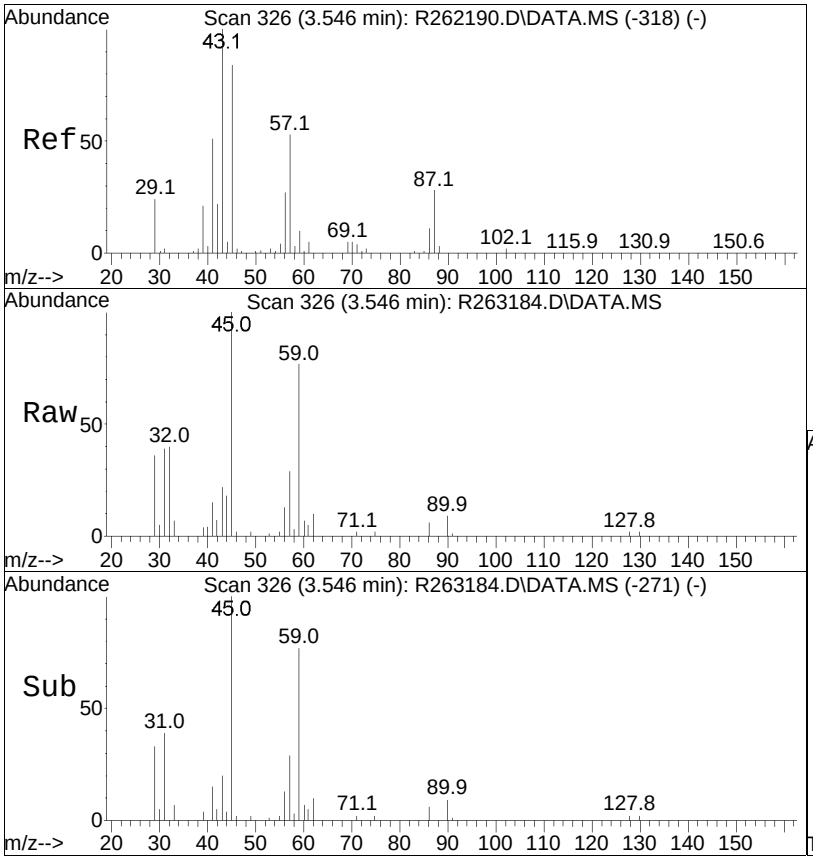


#40
Tetrahydrofuran
Concen: 0.14 ppbV
RT: 3.747 min Scan# 353
Delta R.T. 0.015 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 42 Resp: 1403

Ion	Ratio	Lower	Upper
42	100		
71	42.7	45.4	68.2#
72	55.1	47.4	71.0

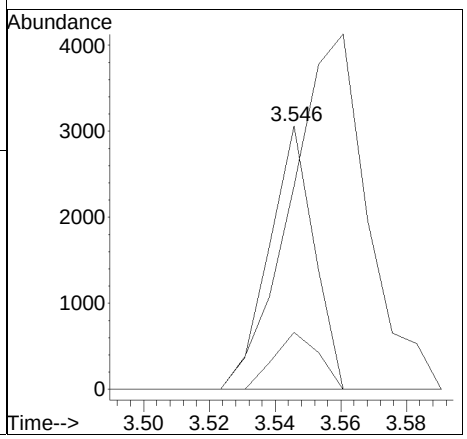


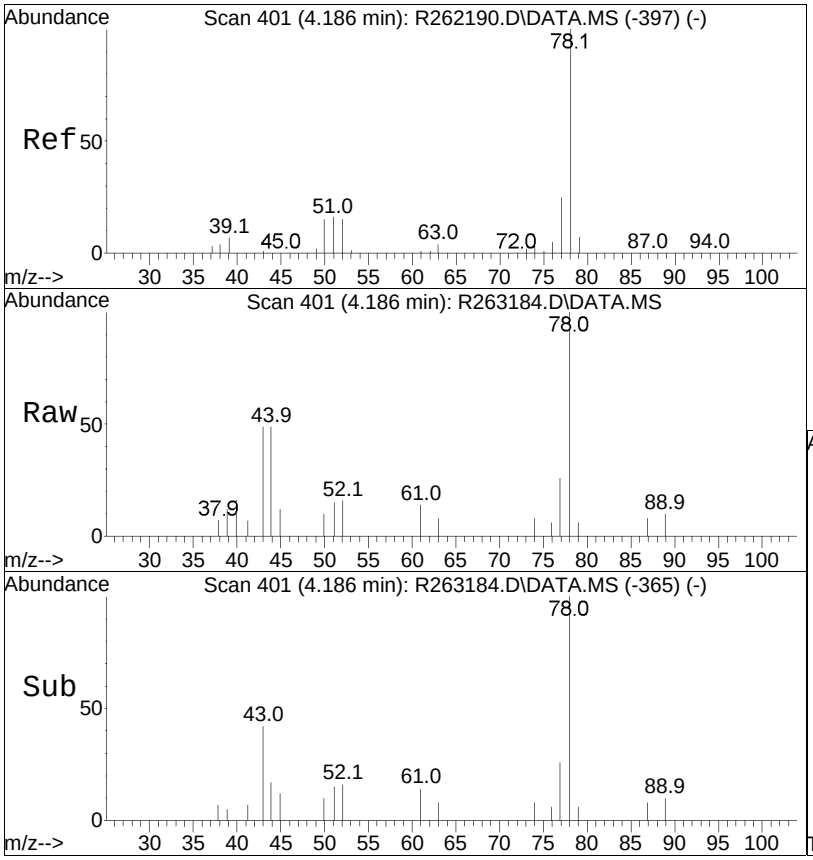


#44
hexane
Concen: 0.16 ppbV
RT: 3.546 min Scan# 326
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 57 Resp: 2908

Ion	Ratio	Lower	Upper
57	100		
43	77.2	140.7	211.1#
86	21.7	16.7	25.1

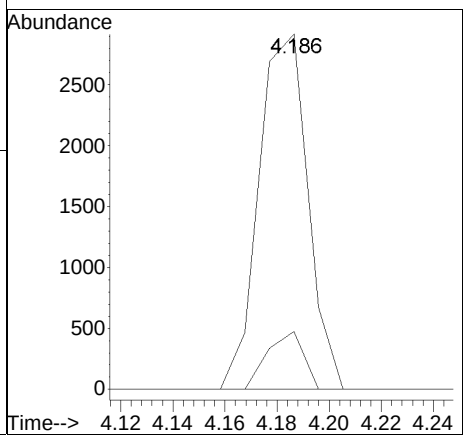


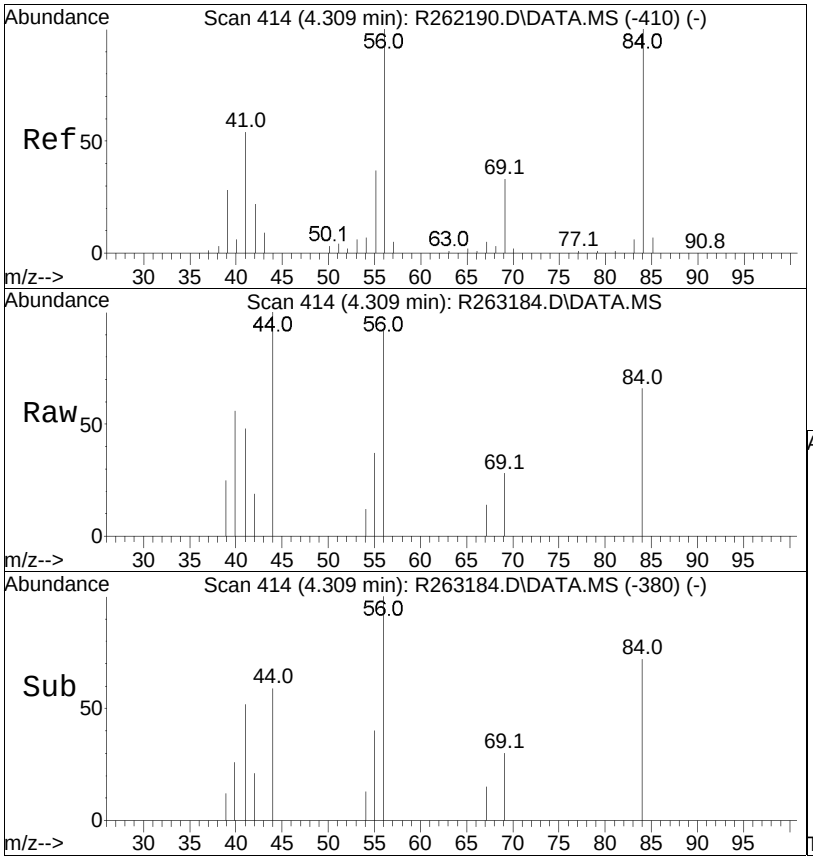


#50
benzene
Concen: 0.09 ppbV
RT: 4.186 min Scan# 401
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 78 Resp: 3816

Ion	Ratio	Lower	Upper
78	100		
52	16.3	10.3	15.5#

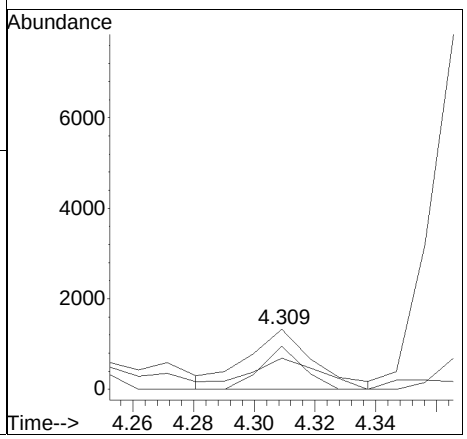


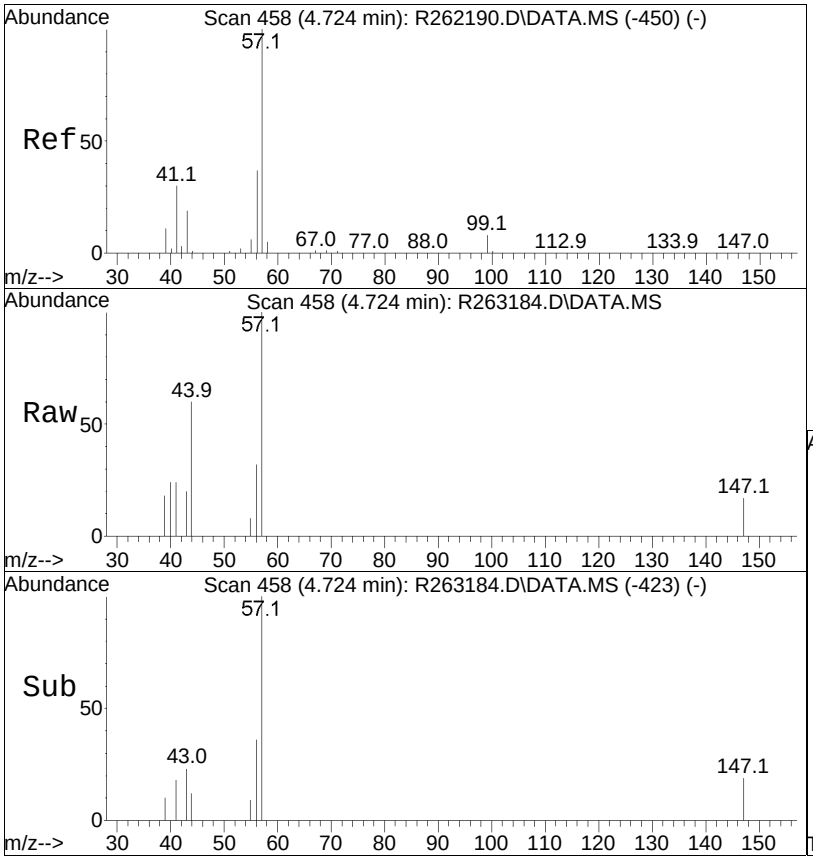


#53
cyclohexane
Concen: 0.11 ppbV
RT: 4.309 min Scan# 414
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 56 Resp: 2045

Ion	Ratio	Lower	Upper
56	100		
84	71.9	82.0	123.0#
41	51.9	35.6	53.4

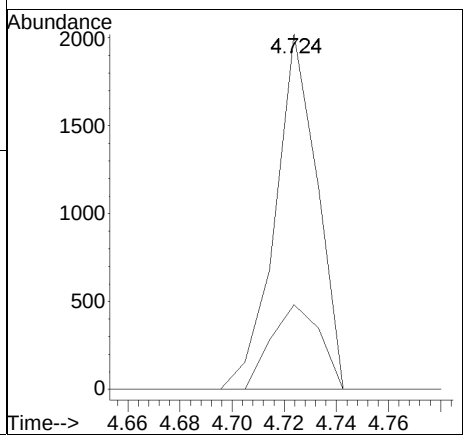


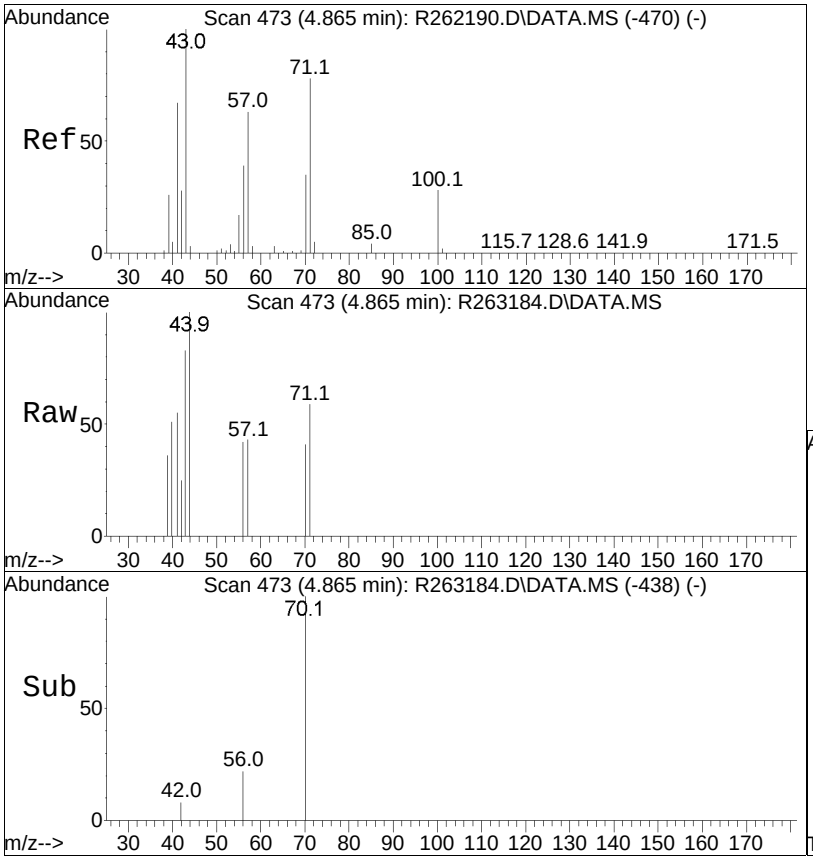


#60
2,2,4-trimethylpentane
Concen: 0.04 ppbV
RT: 4.724 min Scan# 458
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 57 Resp: 2265

Ion	Ratio	Lower	Upper
57	100		
99	0.0	6.0	9.0#
41	23.8	16.3	24.5

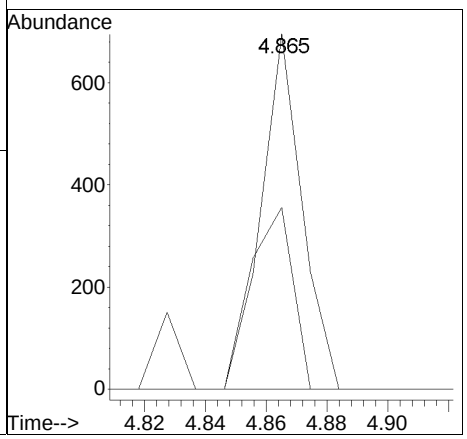


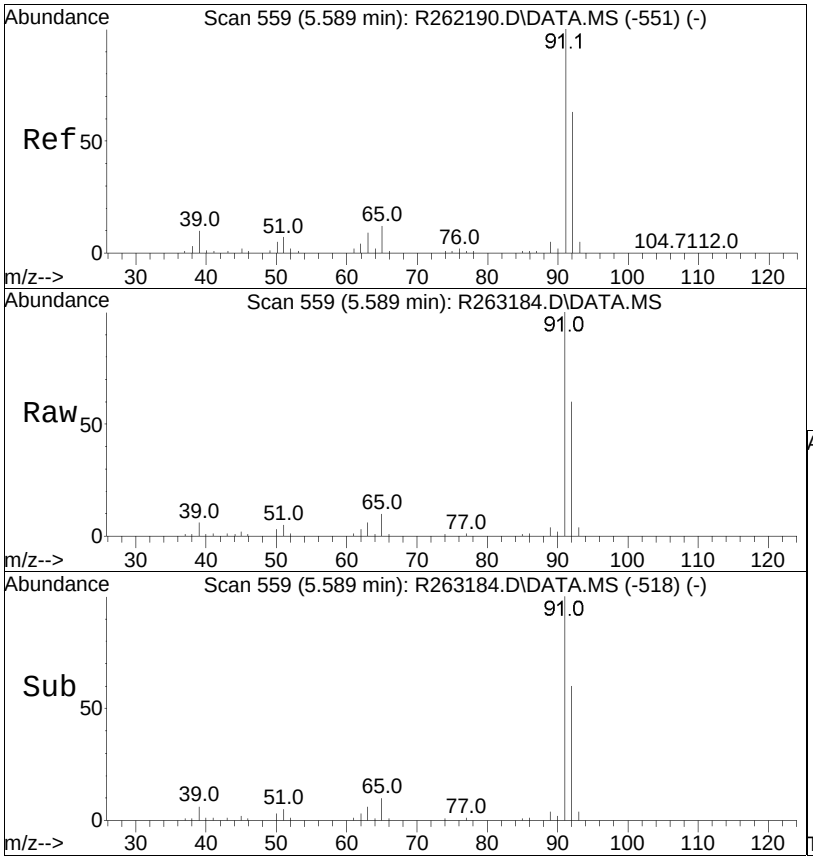


#62
heptane
Concen: 0.04 ppbV
RT: 4.865 min Scan# 473
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 43 Resp: 651

Ion	Ratio	Lower	Upper
43	100		
57	51.2	52.1	78.1#
100	0.0	24.8	37.2#

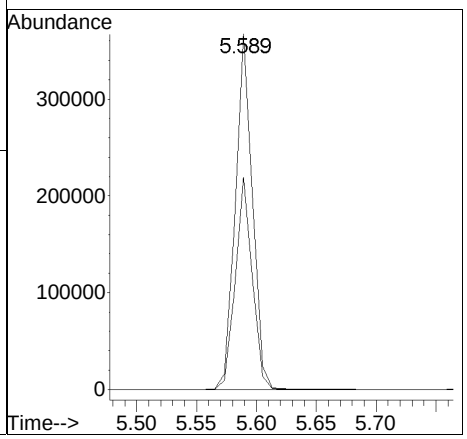


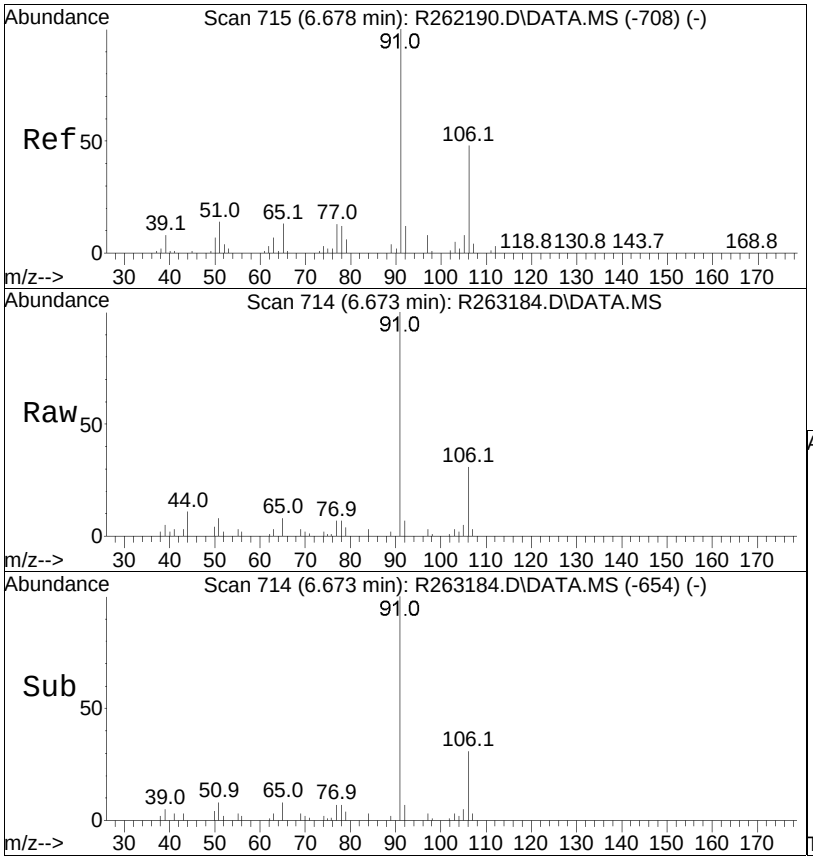


#68
toluene
Concen: 6.57 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 91 Resp: 364329

Ion	Ratio	Lower	Upper
91	100		
92	59.8	47.9	71.9

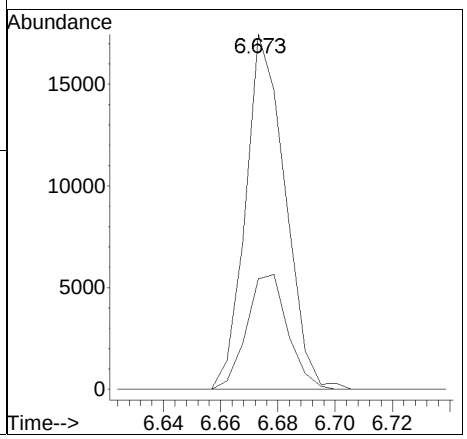


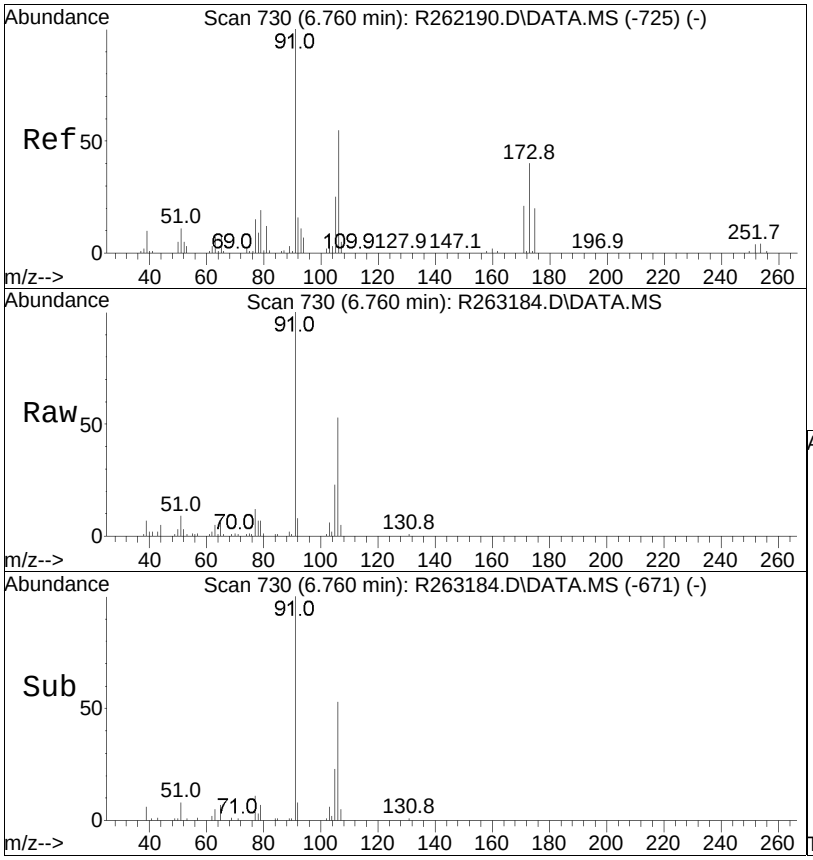


#81
ethylbenzene
Concen: 0.24 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 91 Resp: 16760

Ion	Ratio	Lower	Upper
91	100		
106	31.1	26.6	39.8

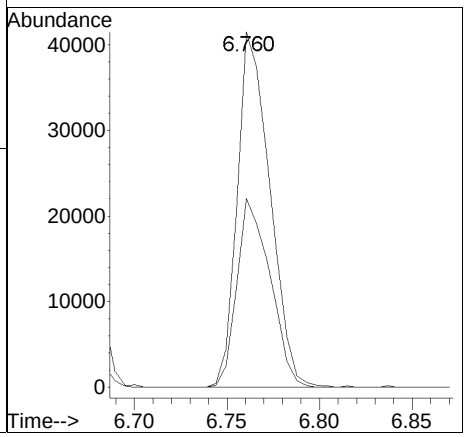


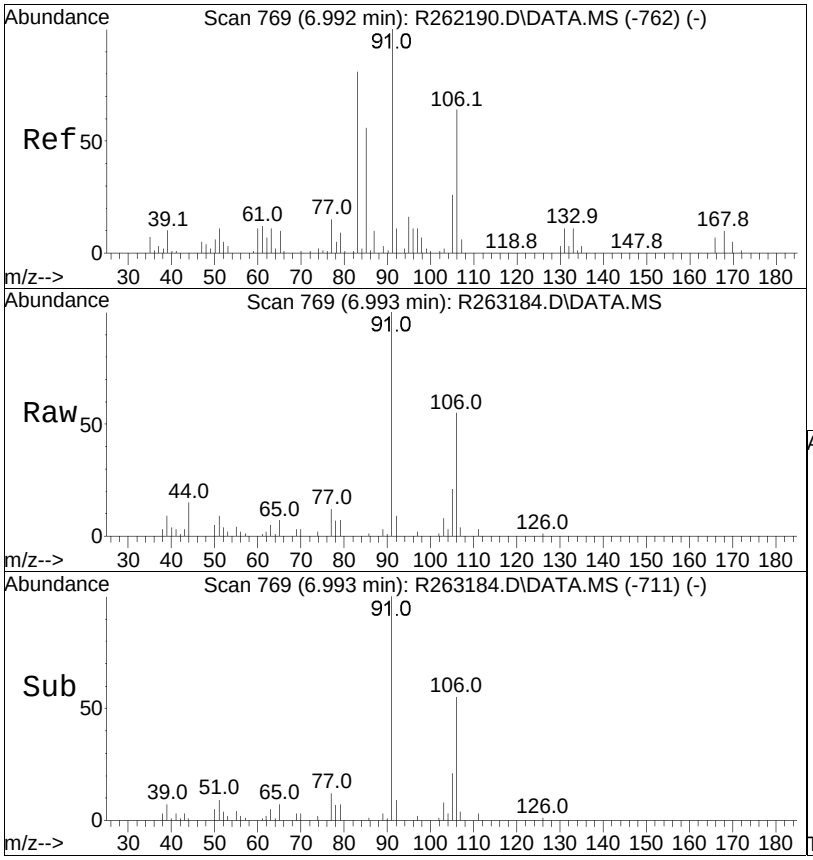


#83
m+p-xylene
Concen: 0.92 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 91 Resp: 50869

Ion	Ratio	Lower	Upper
91	100		
106	53.2	40.6	60.8

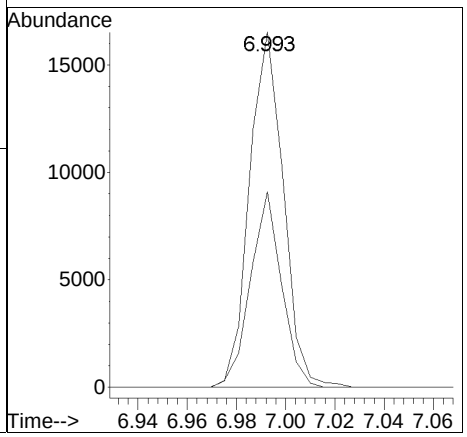




#87
o-xylene
Concen: 0.29 ppbV
RT: 6.993 min Scan# 769
Delta R.T. 0.006 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 91 Resp: 15823

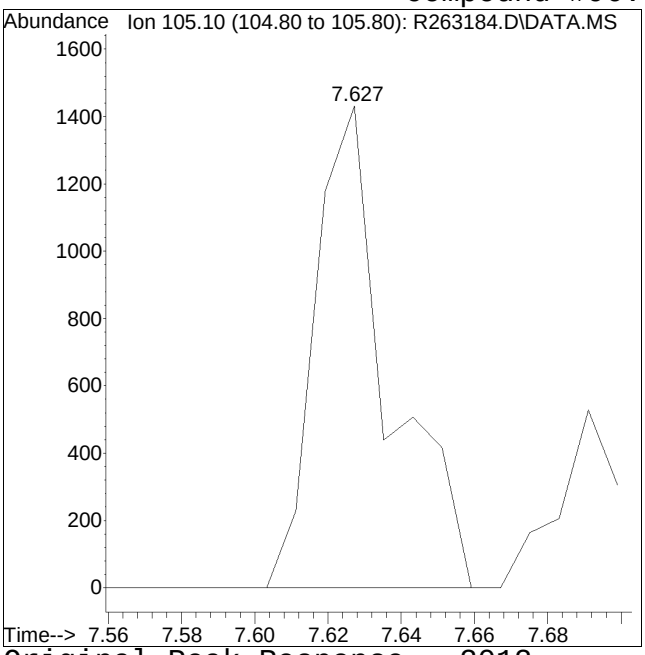
Ion	Ratio	Lower	Upper
91	100		
106	55.1	40.8	61.2



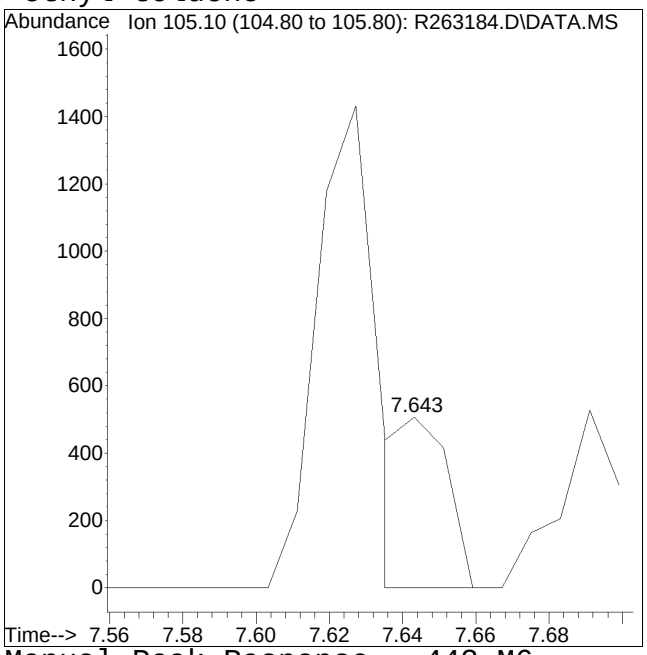
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263184.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 5:49 pm Instrument : Airlab26
Sample : L2522632-03,3,250,250 Quant Date : 4/23/2025 6:58 am

Compound #96: 4-ethyl toluene



Original Peak Response = 2012



Manual Peak Response = 442 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\04\0422T\
Data File : R263198.D
Acq On : 23 Apr 2025 01:30 am
Operator : AIRLAB26:KJD
Sample : L2522632-01,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 07:09:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	160790	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 101.70%			
43) 1,4-difluorobenzene	4.365	114	658657	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 101.24%			
67) chlorobenzene-D5	6.449	54	85833	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 110.23%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.024	85	15454	0.444	ppbV	98
6) chloromethane	2.074	50	6196	0.601	ppbV #	81
7) Freon-114	2.107		0	N.D.		
10) 1,3-butadiene	2.189		0	N.D.		
13) bromomethane	2.271		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.359	31	681437	126.268	ppbV	95
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.500	43	7866406	593.760	ppbV #	86
21) trichlorofluoromethane	2.556	101	7004	0.220	ppbV	95
22) isopropyl alcohol	2.568	45	6086653	384.968	ppbV	100
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	2.760	49	22415	2.048	ppbV	97
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	2.851	76	2431	0.072	ppbV #	1
31) Freon 113	2.851	101	2016	0.074	ppbV	85
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	3.283	43	45504	2.086	ppbV	99
38) Ethyl Acetate	3.545	61	87867	18.129	ppbV #	1
39) chloroform	3.568	83	1075	0.037	ppbV	87
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	3.545	57	18807	0.969	ppbV #	1
50) benzene	4.186	78	5415	0.120	ppbV #	43
53) cyclohexane	4.309	56	58270	3.017	ppbV	95
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263198.D
Acq On : 23 Apr 2025 01:30 am
Operator : AIRLAB26:KJD
Sample : L2522632-01,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 07:09:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

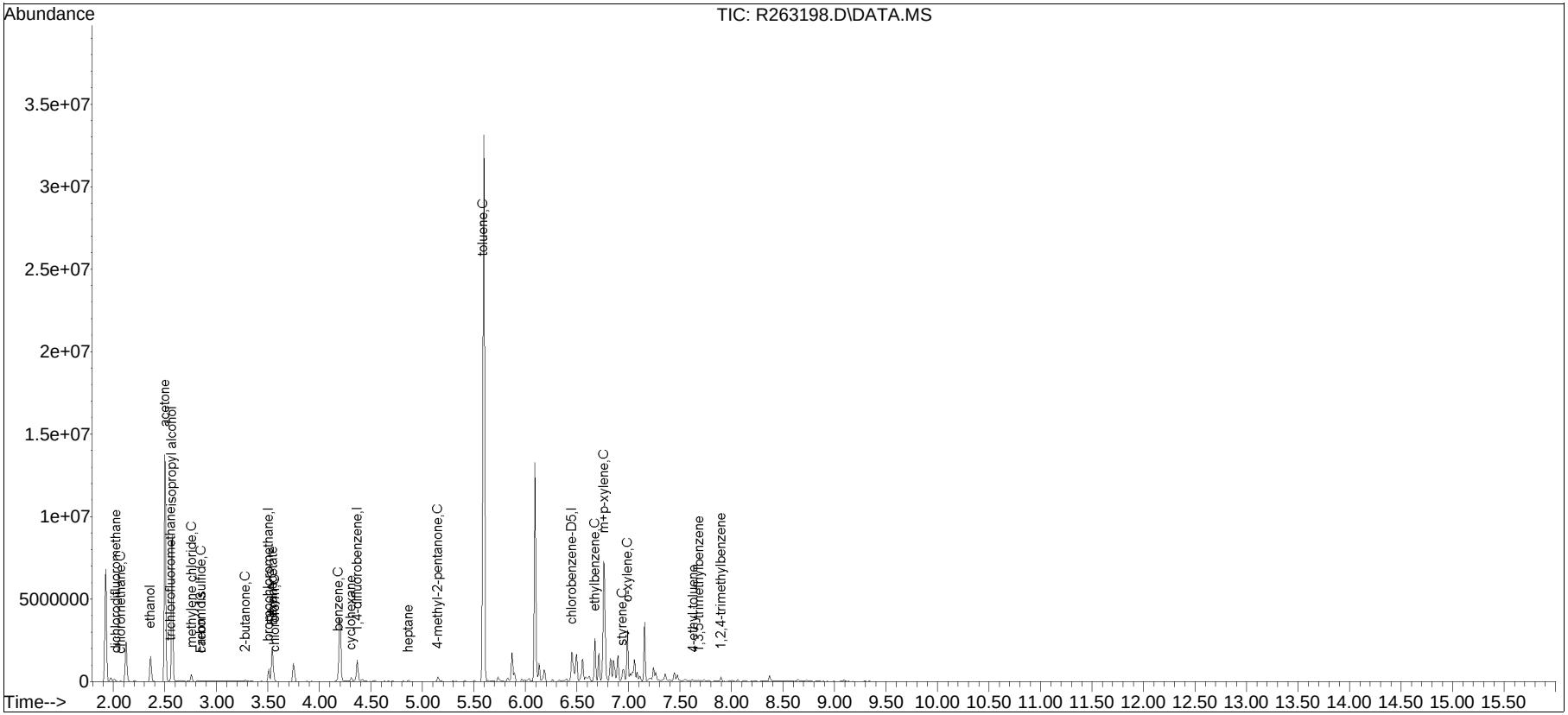
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D. d		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D. d		
62) heptane	4.865	43	18336	0.973	ppbV	97
63) cis-1,3-dichloropropene	0.000		0	N.D. d		
64) 4-methyl-2-pentanone	5.150	43	19236	0.817	ppbV #	61
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D. d		
68) toluene	5.589	91	13149321	211.384	ppbV #	74
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D. d		
81) ethylbenzene	6.673	91	992079	12.449	ppbV	100
83) m+p-xylene	6.760	91	3194184	51.291	ppbV	94
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	30545	0.614	ppbV	99
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d		
87) o-xylene	6.992	91	994739	16.223	ppbV	99
96) 4-ethyl toluene	7.627	105	22767M6	0.265	ppbV	
97) 1,3,5-trimethylbenzene	7.682	105	23695	0.322	ppbV #	99
99) 1,2,4-trimethylbenzene	7.898	105	86603	1.154	ppbV #	70
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	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	9.195		0	N.D.		
116) naphthalene	9.241		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

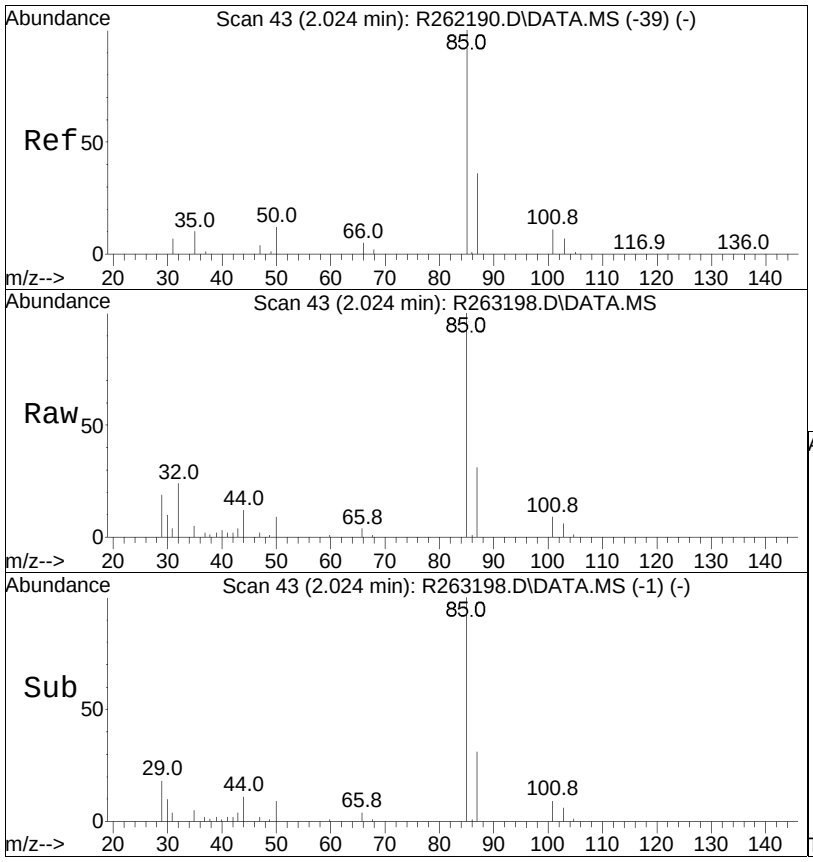
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263198.D
Acq On : 23 Apr 2025 01:30 am
Operator : AIRLAB26:KJD
Sample : L2522632-01,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 07:09:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

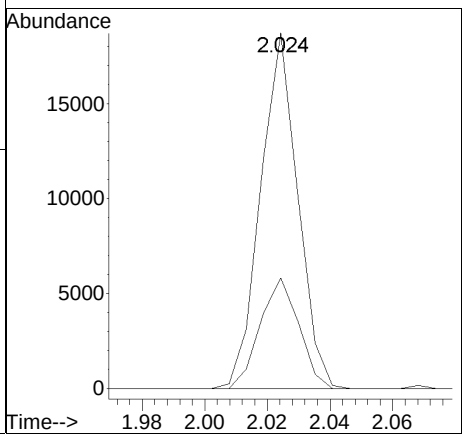


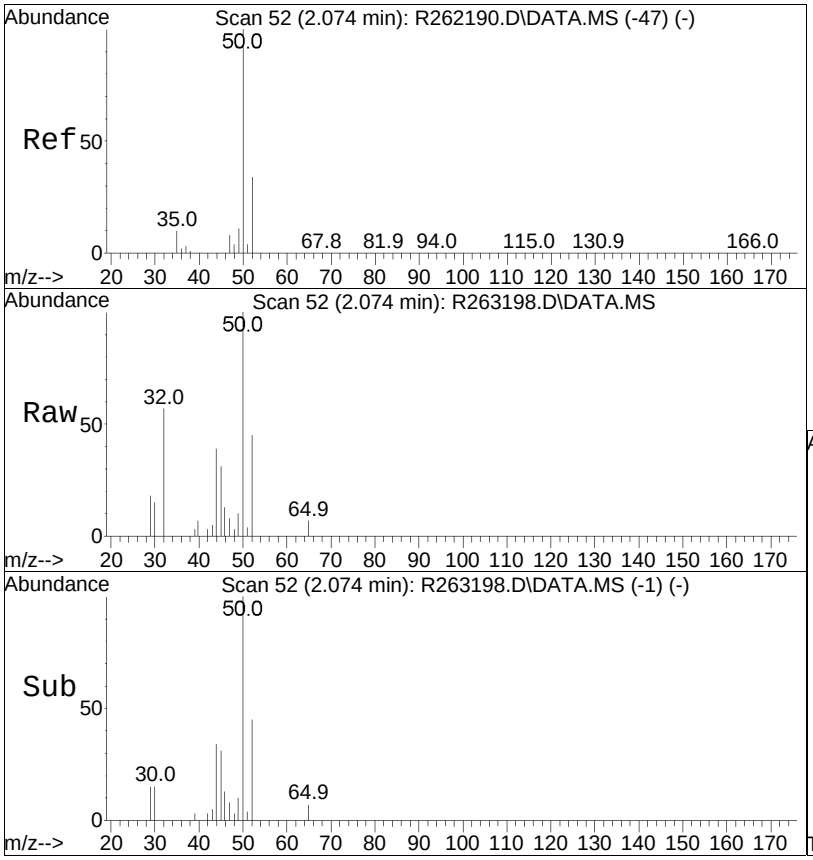


#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 2.024 min Scan# 43
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 85 Resp: 15454

Ion	Ratio	Lower	Upper
85	100		
87	31.1	26.0	39.0

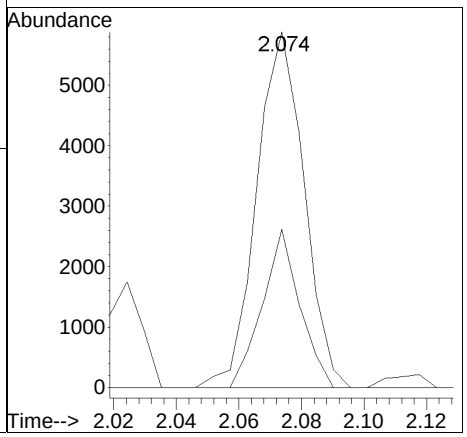


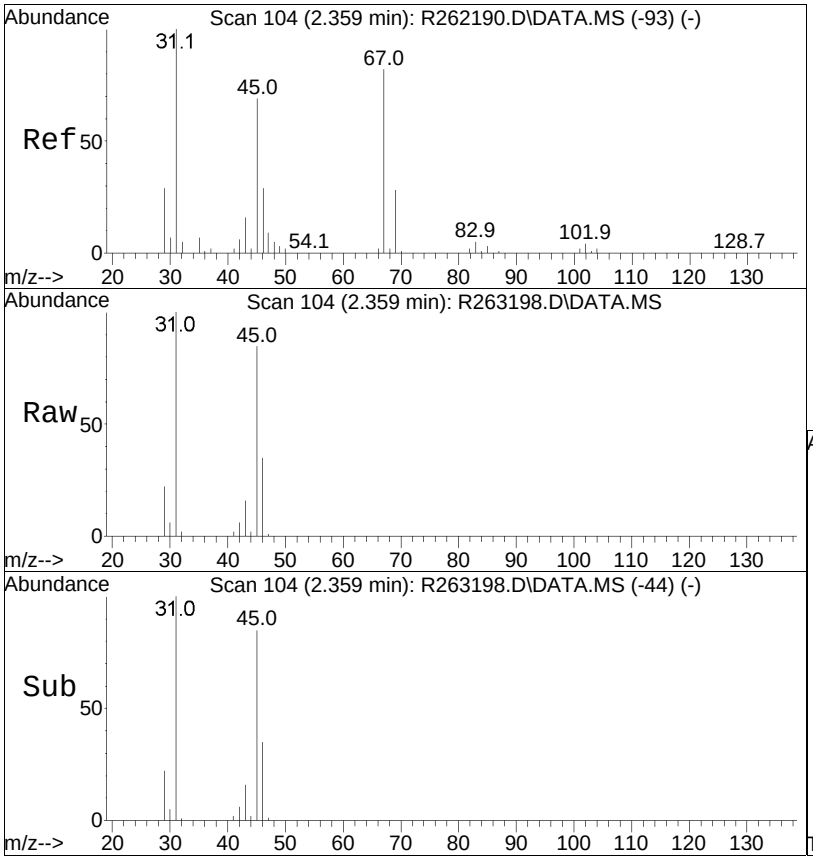


#6
chloromethane
Concen: 0.60 ppbV
RT: 2.074 min Scan# 52
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 50 Resp: 6196

Ion	Ratio	Lower	Upper
50	100		
52	44.5	27.1	40.7#

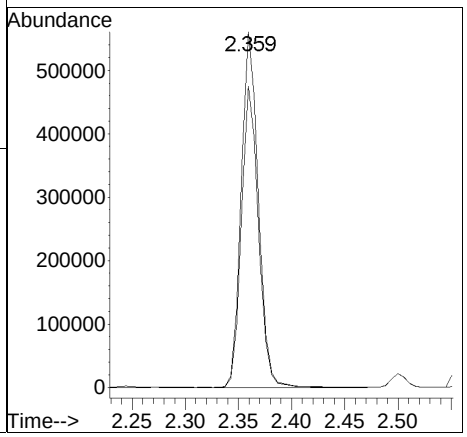


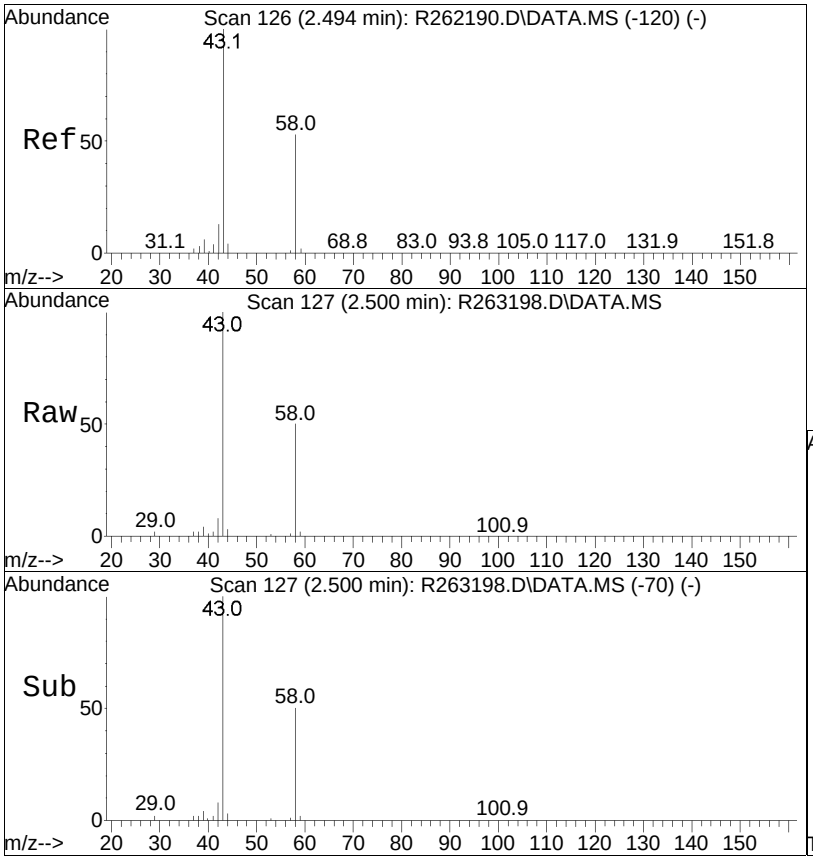


#15
ethanol
Concen: 126.27 ppbV
RT: 2.359 min Scan# 104
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 31 Resp: 681437

Ion	Ratio	Lower	Upper
31	100		
45	84.8	64.3	96.5

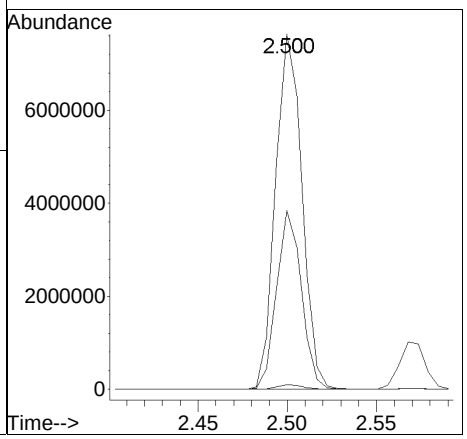


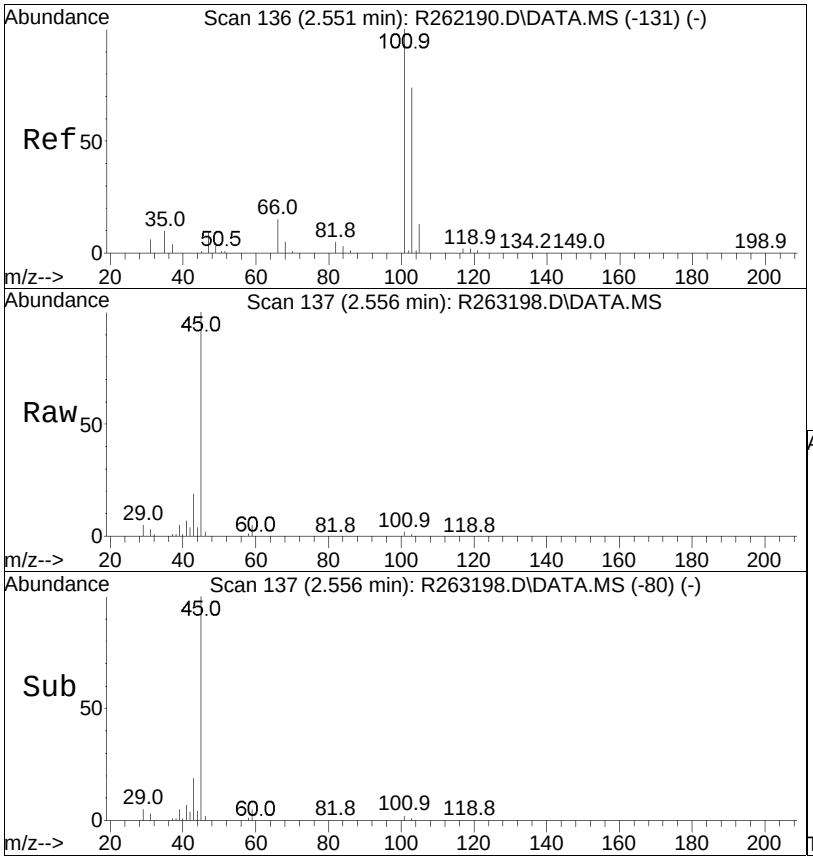


#19
acetone
Concen: 593.76 ppbV
RT: 2.500 min Scan# 127
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 43 Resp: 7866406

Ion	Ratio	Lower	Upper
43	100		
58	50.3	32.9	49.3#
57	1.3	1.0	1.4

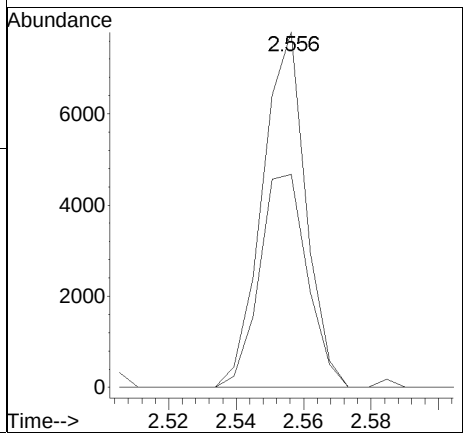


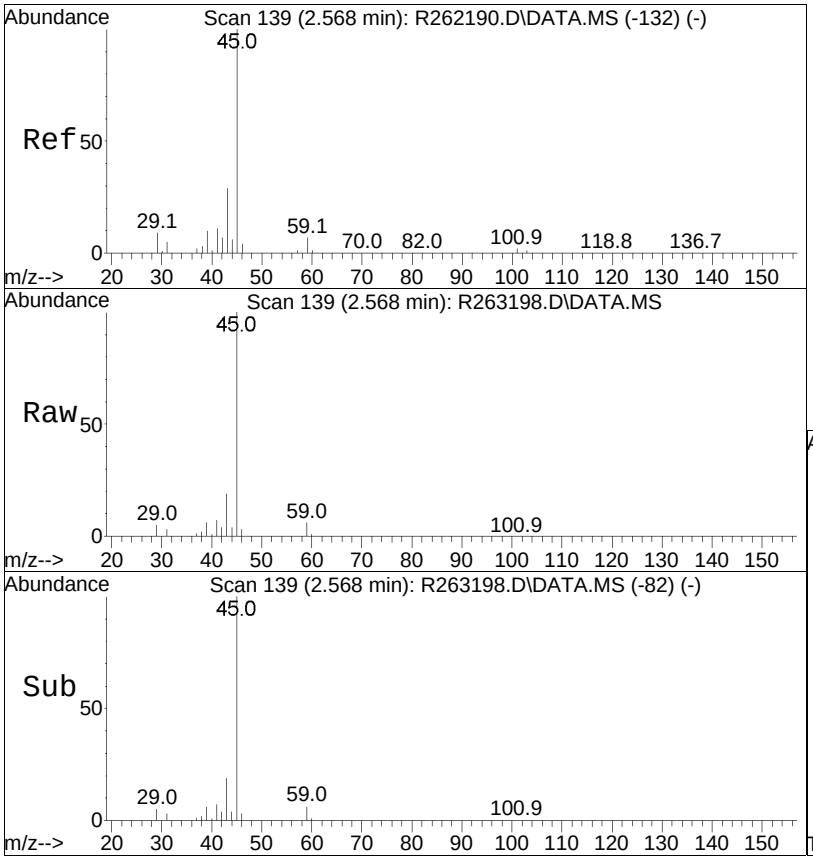


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 2.556 min Scan# 137
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:101 Resp: 7004

Ion	Ratio	Lower	Upper
101	100		
103	59.9	50.9	76.3

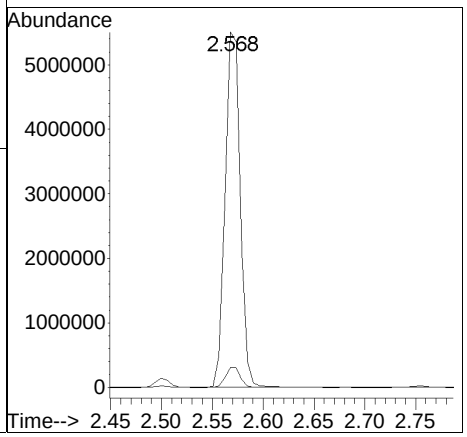


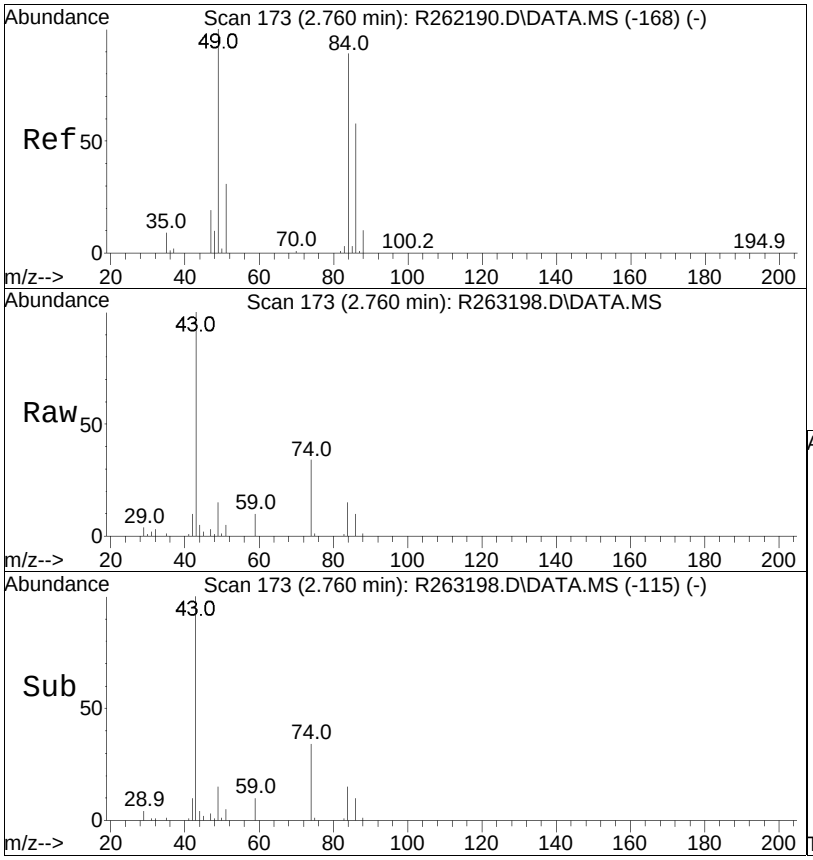


#22
isopropyl alcohol
Concen: 384.97 ppbV
RT: 2.568 min Scan# 139
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 45 Resp: 6086653

Ion	Ratio	Lower	Upper
45	100		
59	5.6	4.4	6.6

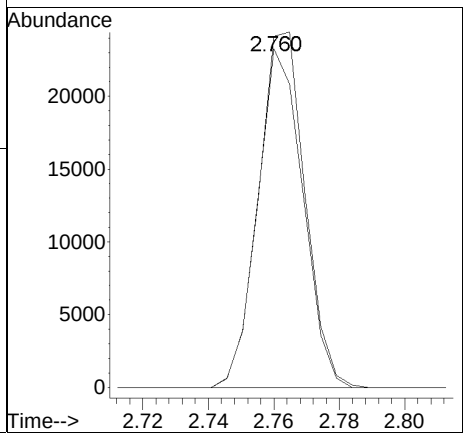


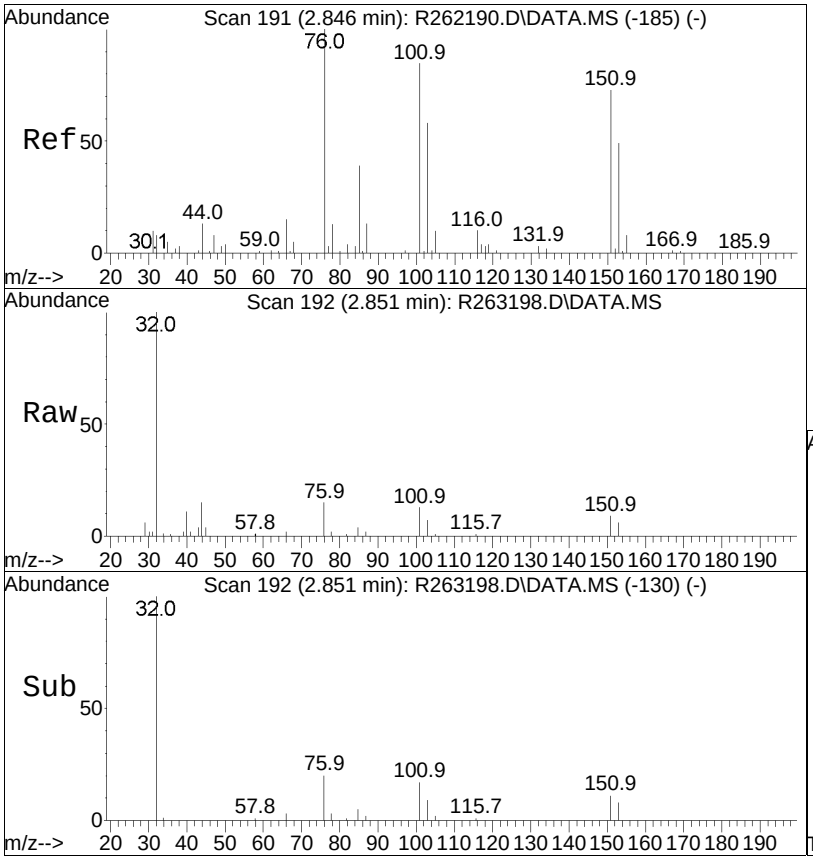


#28
methylene chloride
Concen: 2.05 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 49 Resp: 22415

Ion	Ratio	Lower	Upper
49	100		
84	103.6	85.3	127.9

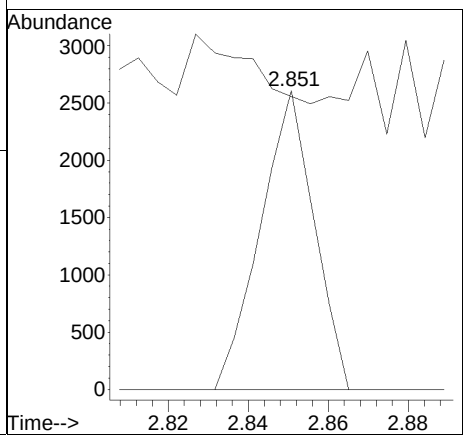


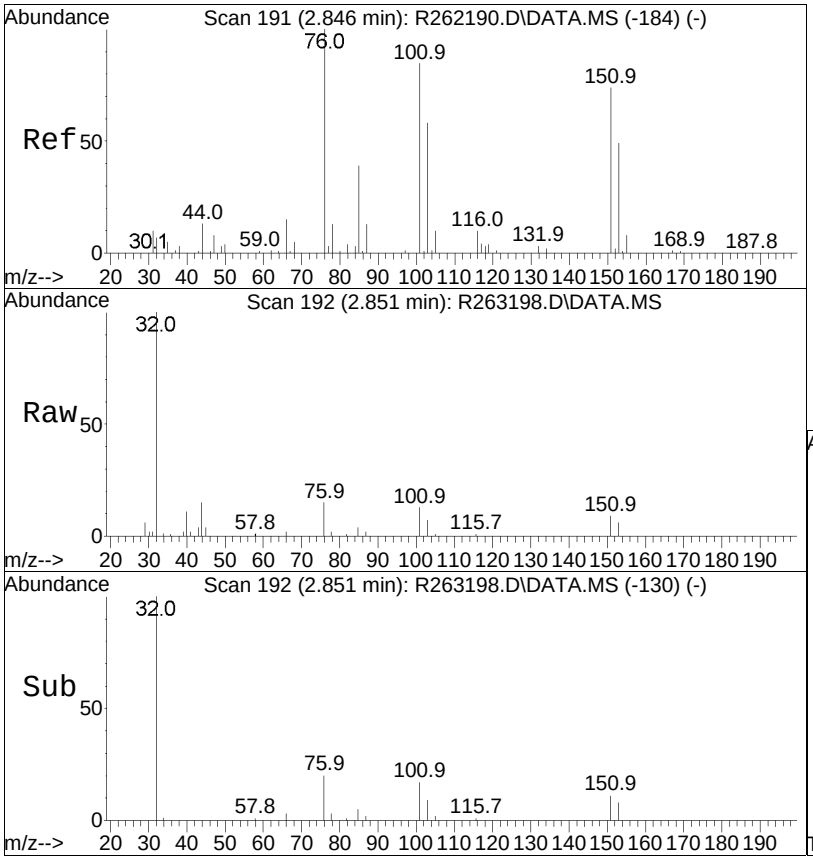


#30
carbon disulfide
Concen: 0.07 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.005 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 76 Resp: 2431

Ion	Ratio	Lower	Upper
76	100		
44	98.0	7.5	11.3#

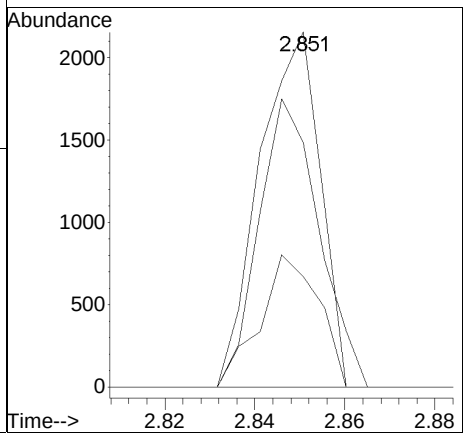


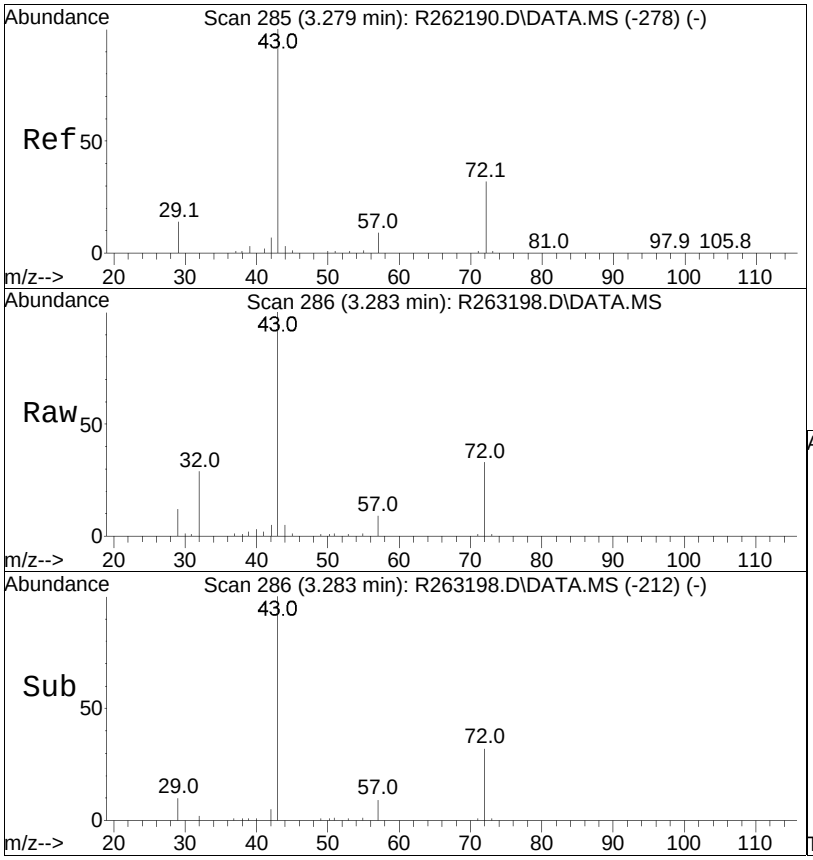


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.005 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:101 Resp: 2016

Ion	Ratio	Lower	Upper
101	100		
85	31.2	29.9	44.9
151	69.0	67.5	101.3

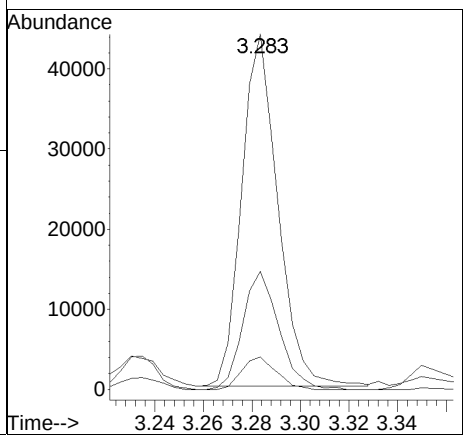


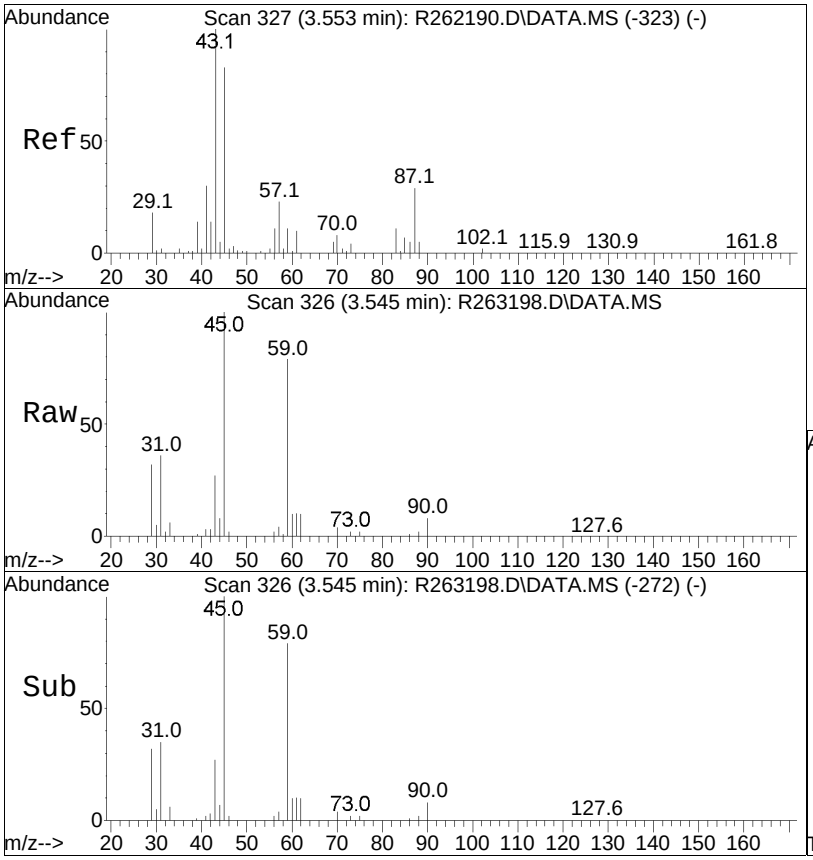


#36
2-butanone
Concen: 2.09 ppbV
RT: 3.283 min Scan# 286
Delta R.T. 0.004 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 43 Resp: 45504

Ion	Ratio	Lower	Upper
43	100		
72	33.2	27.1	40.7
57	9.2	7.4	11.2

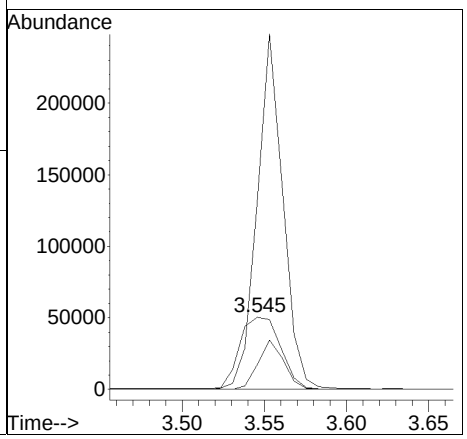


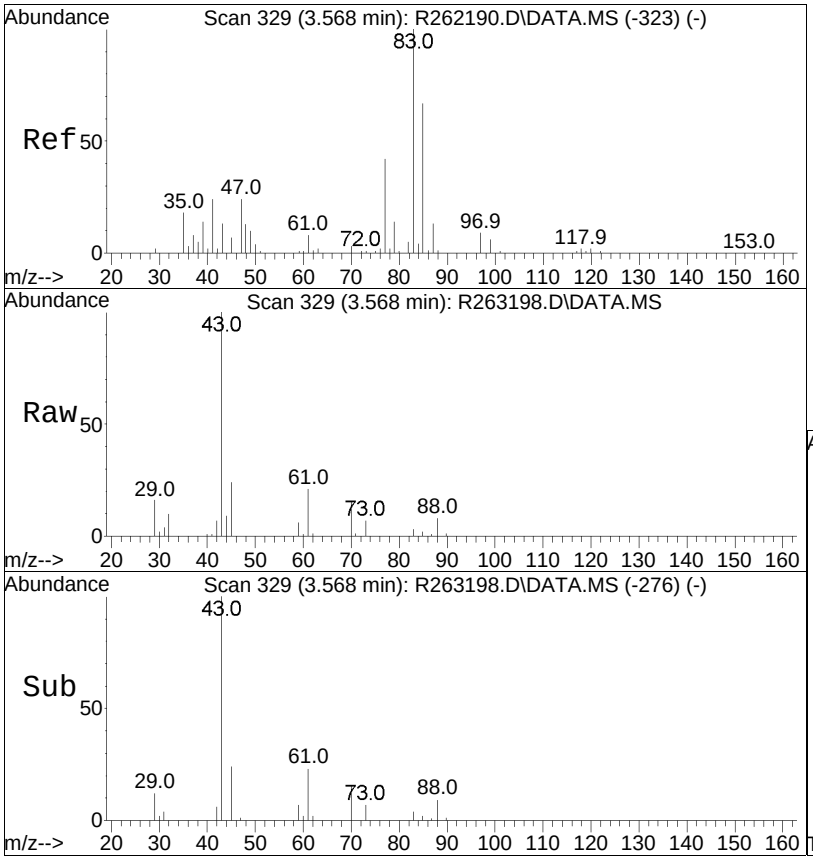


#38
Ethyl Acetate
Concen: 18.13 ppbV
RT: 3.545 min Scan# 326
Delta R.T. -0.008 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 61 Resp: 87867

Ion	Ratio	Lower	Upper
61	100		
70	34.1	70.6	105.8#
43	259.1	760.4	1140.6#

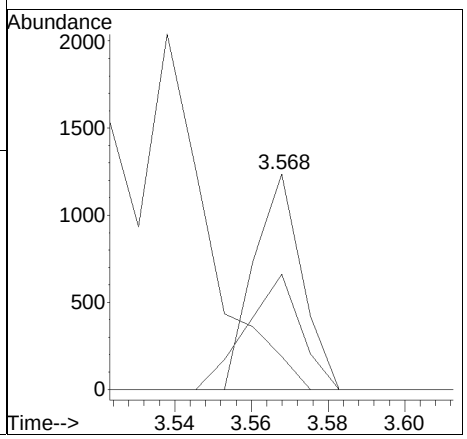


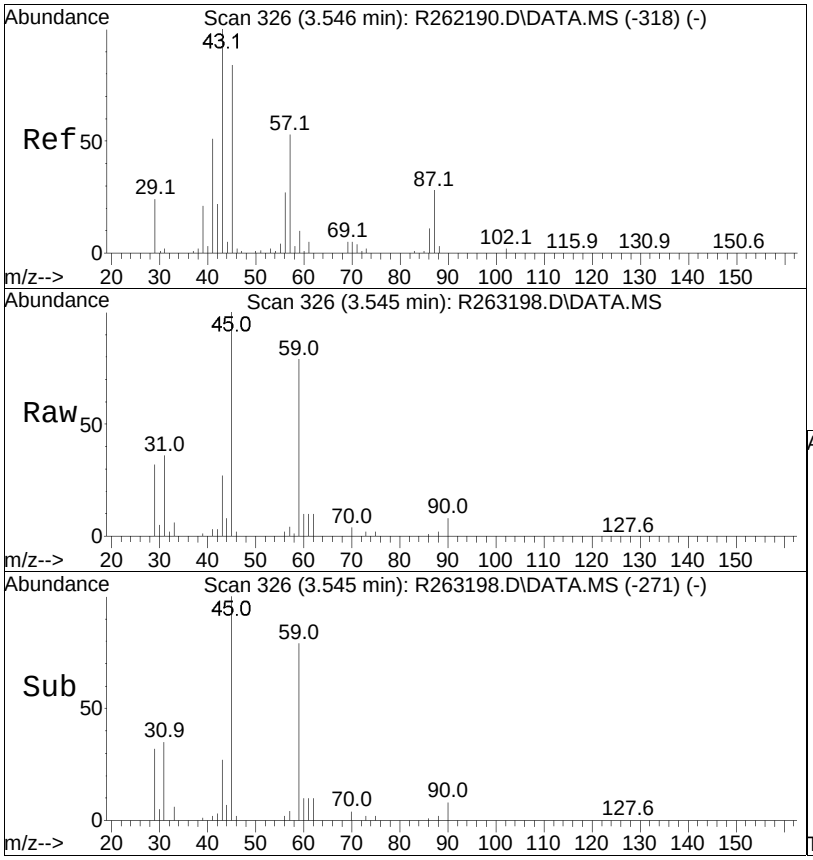


#39
chloroform
Concen: 0.04 ppbV
RT: 3.568 min Scan# 329
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 83 Resp: 1075

Ion	Ratio	Lower	Upper
83	100		
85	53.5	52.6	78.8
47	15.3	14.1	21.1

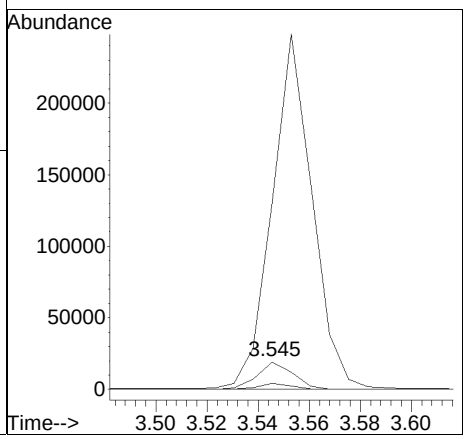


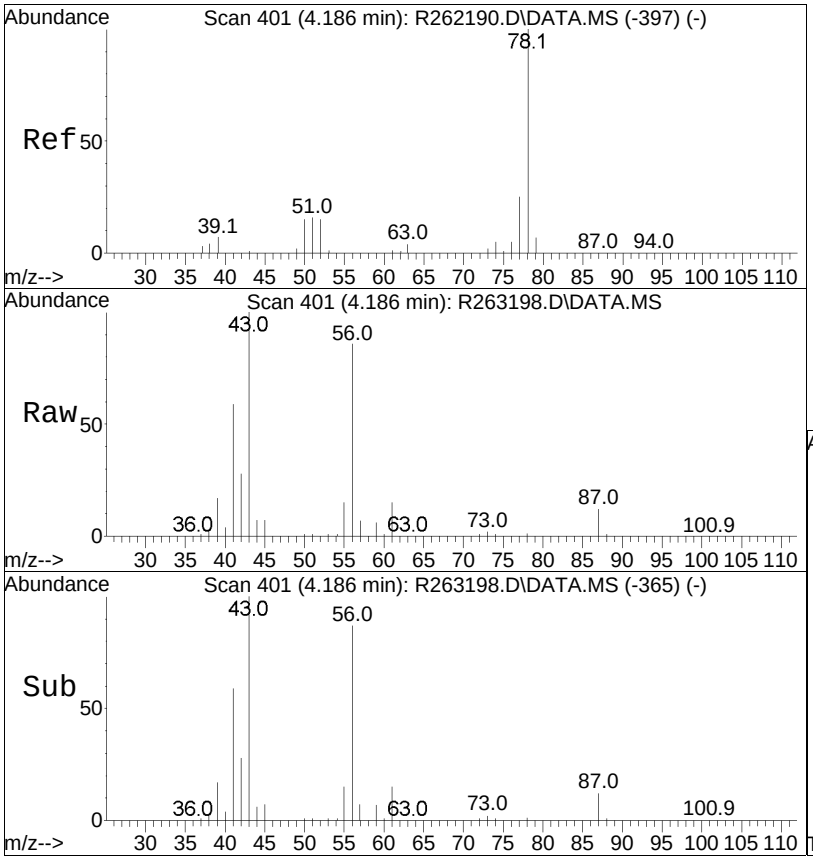


#44
hexane
Concen: 0.97 ppbV
RT: 3.545 min Scan# 326
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 57 Resp: 18807

Ion	Ratio	Lower	Upper
57	100		
43	685.1	140.7	211.1#
86	22.2	16.7	25.1

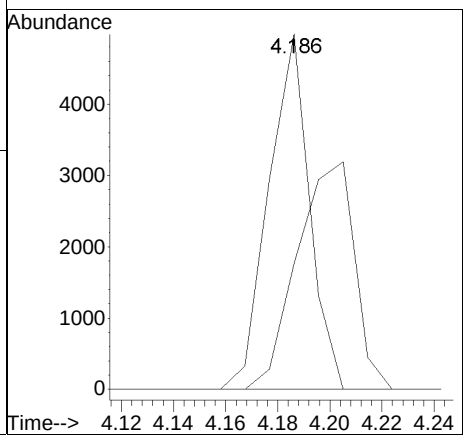


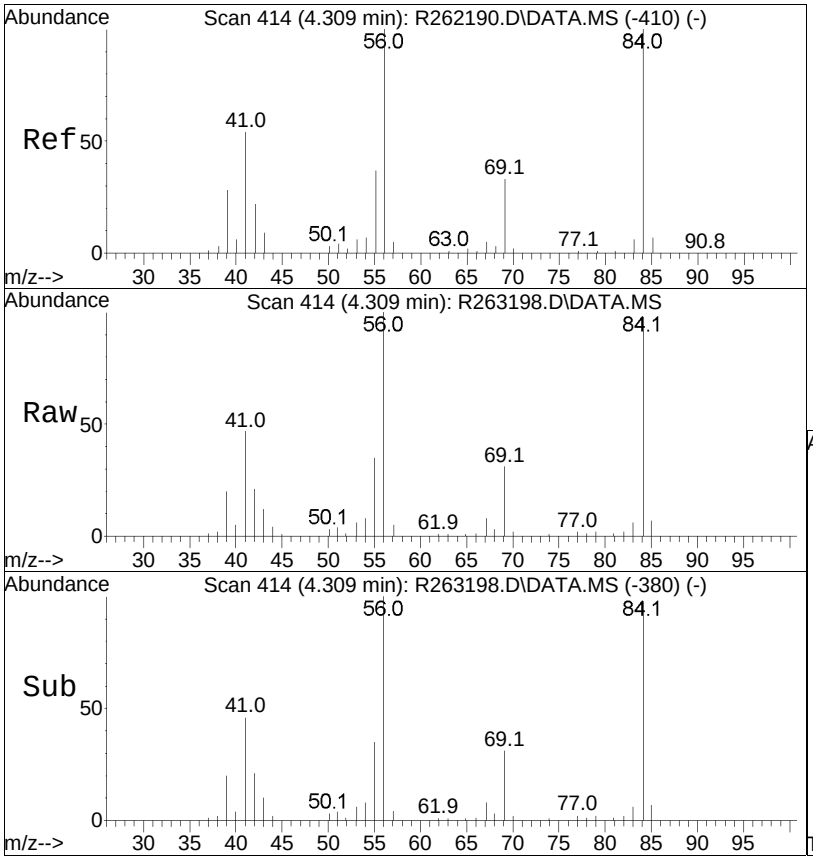


#50
benzene
Concen: 0.12 ppbV
RT: 4.186 min Scan# 401
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 78 Resp: 5415

Ion	Ratio	Lower	Upper
78	100		
52	35.4	10.3	15.5#

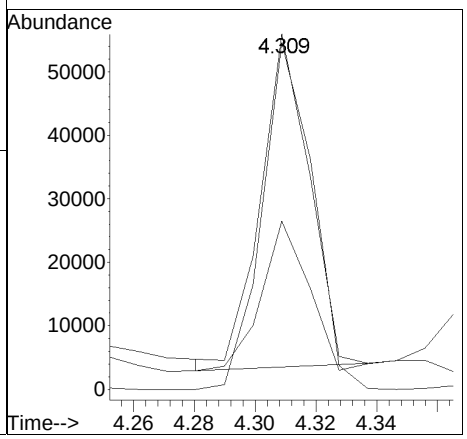


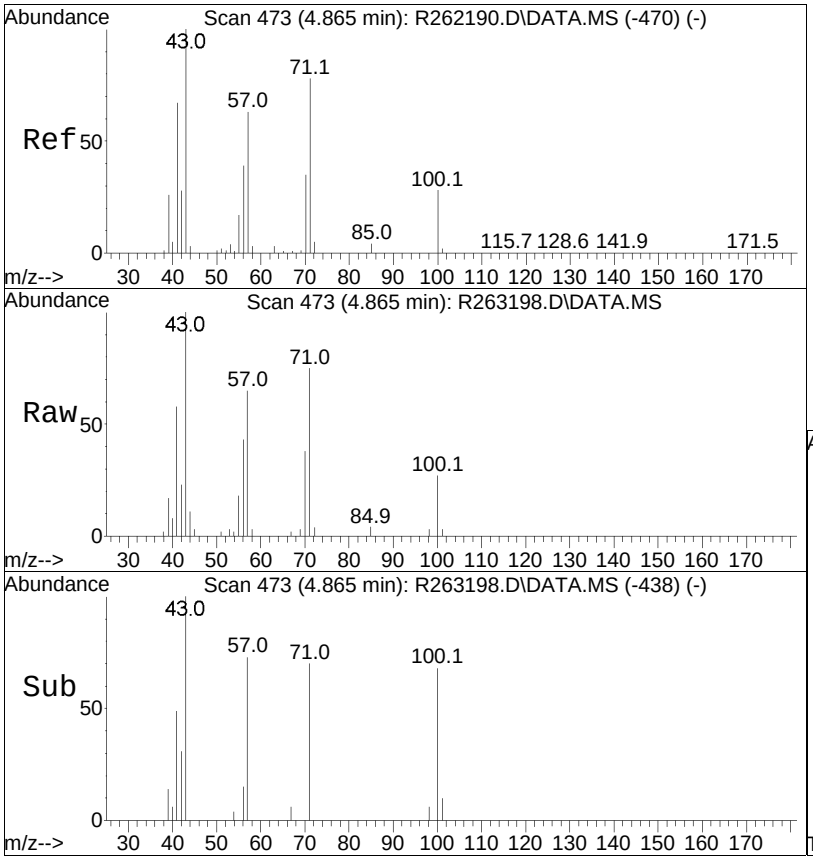


#53
cyclohexane
Concen: 3.02 ppbV
RT: 4.309 min Scan# 414
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 56 Resp: 58270

Ion	Ratio	Lower	Upper
56	100		
84	97.6	82.0	123.0
41	47.3	35.6	53.4

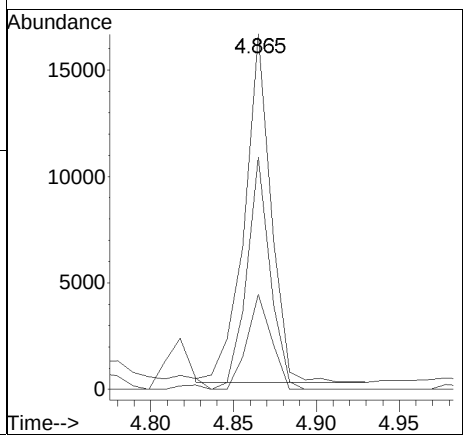


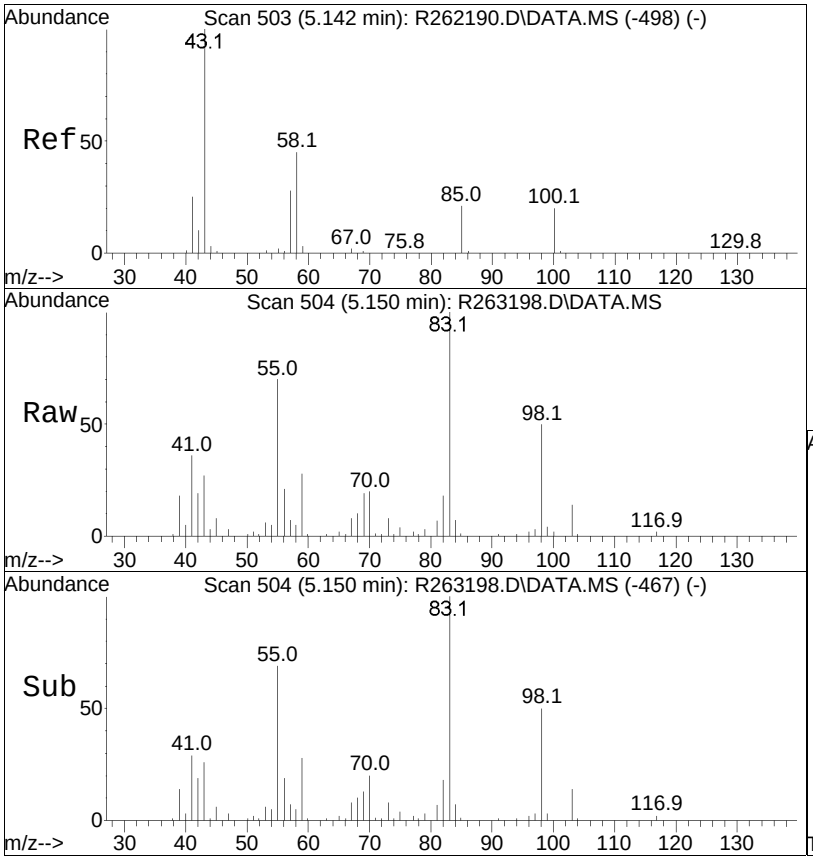


#62
heptane
Concen: 0.97 ppbV
RT: 4.865 min Scan# 473
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 43 Resp: 18336

Ion	Ratio	Lower	Upper
43	100		
57	65.4	52.1	78.1
100	26.7	24.8	37.2

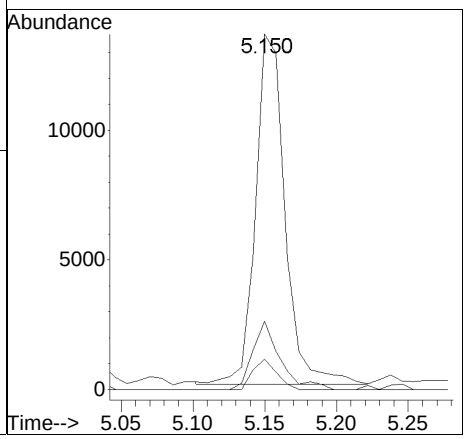


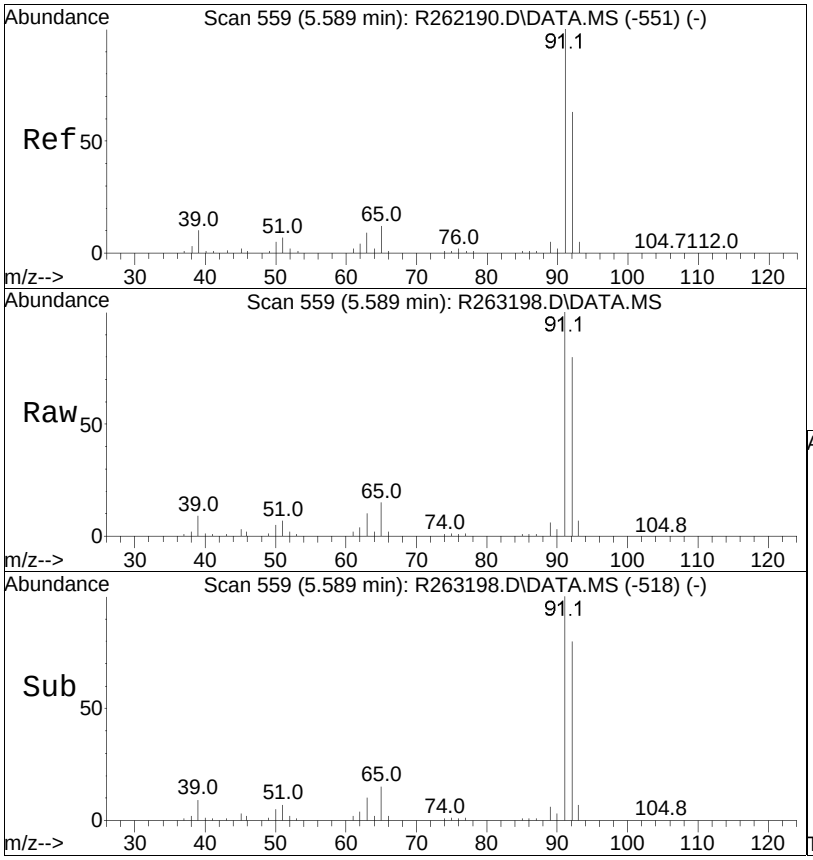


#64
4-methyl-2-pentanone
Concen: 0.82 ppbV
RT: 5.150 min Scan# 504
Delta R.T. 0.008 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 43 Resp: 19236

Ion	Ratio	Lower	Upper
43	100		
58	19.2	38.8	58.2#
100	8.5	18.2	27.4#

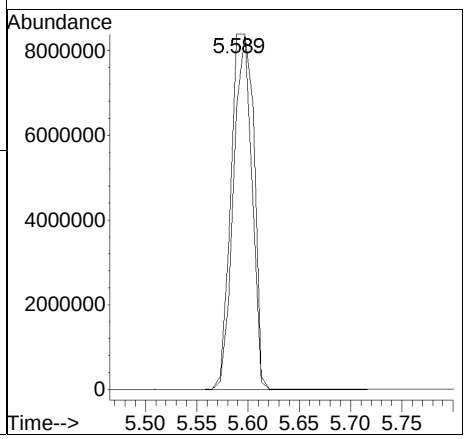


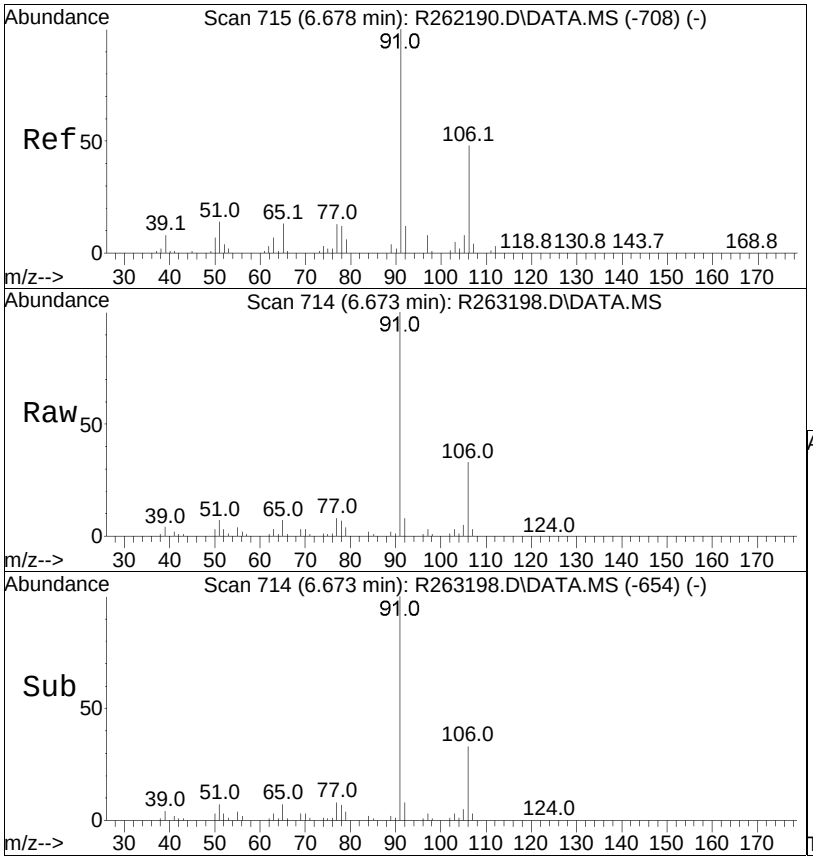


#68
toluene
Concen: 211.38 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 91 Resp:13149321

Ion	Ratio	Lower	Upper
91	100		
92	79.7	47.9	71.9#

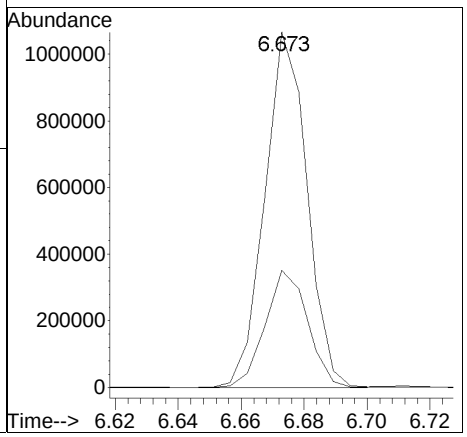


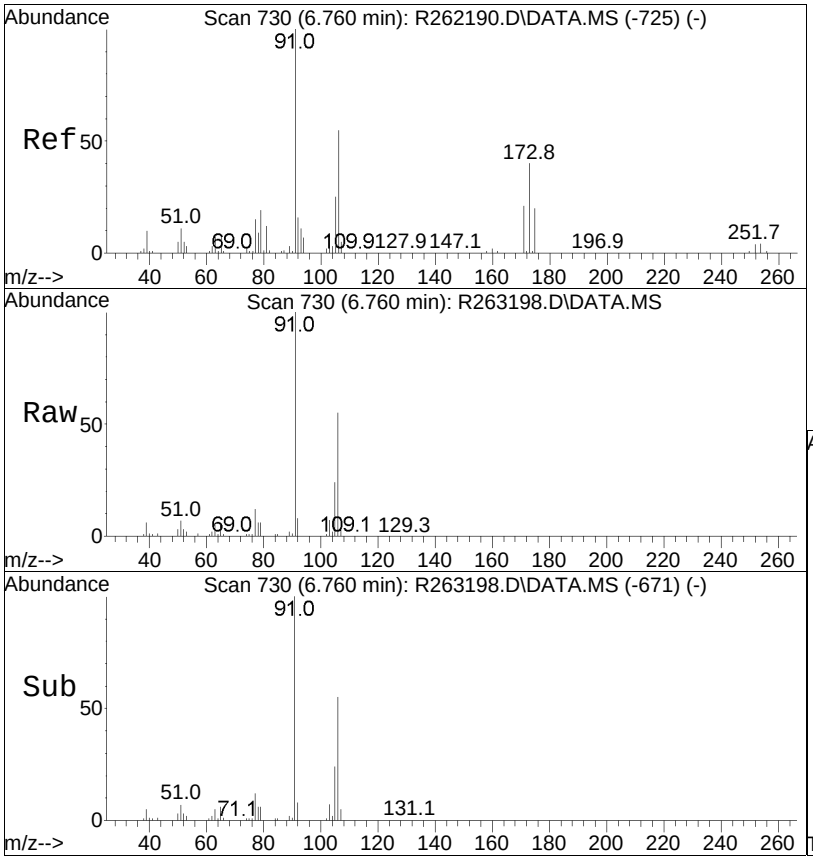


#81
ethylbenzene
Concen: 12.45 ppbV
RT: 6.673 min Scan# 714
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 91 Resp: 992079

Ion	Ratio	Lower	Upper
91	100		
106	32.9	26.6	39.8

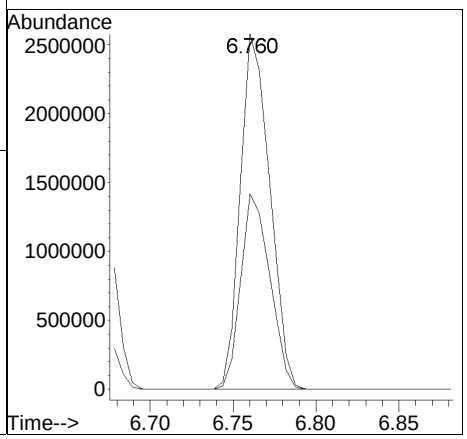


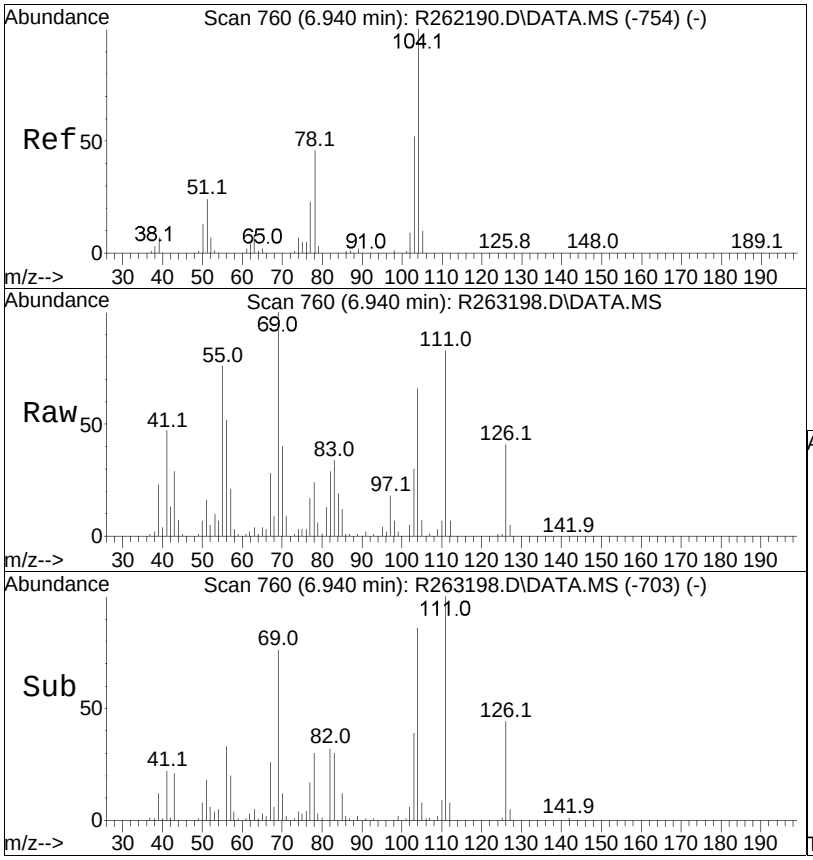


#83
m+p-xylene
Concen: 51.29 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.006 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 91 Resp: 3194184

Ion	Ratio	Lower	Upper
91	100		
106	55.0	40.6	60.8

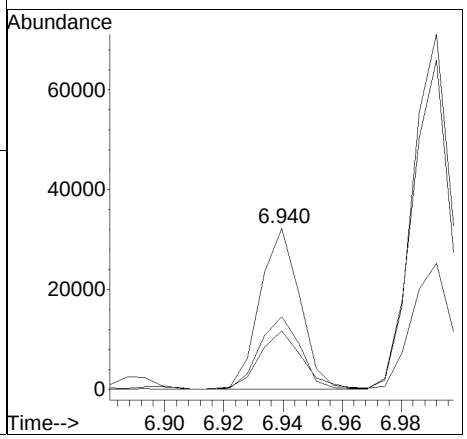


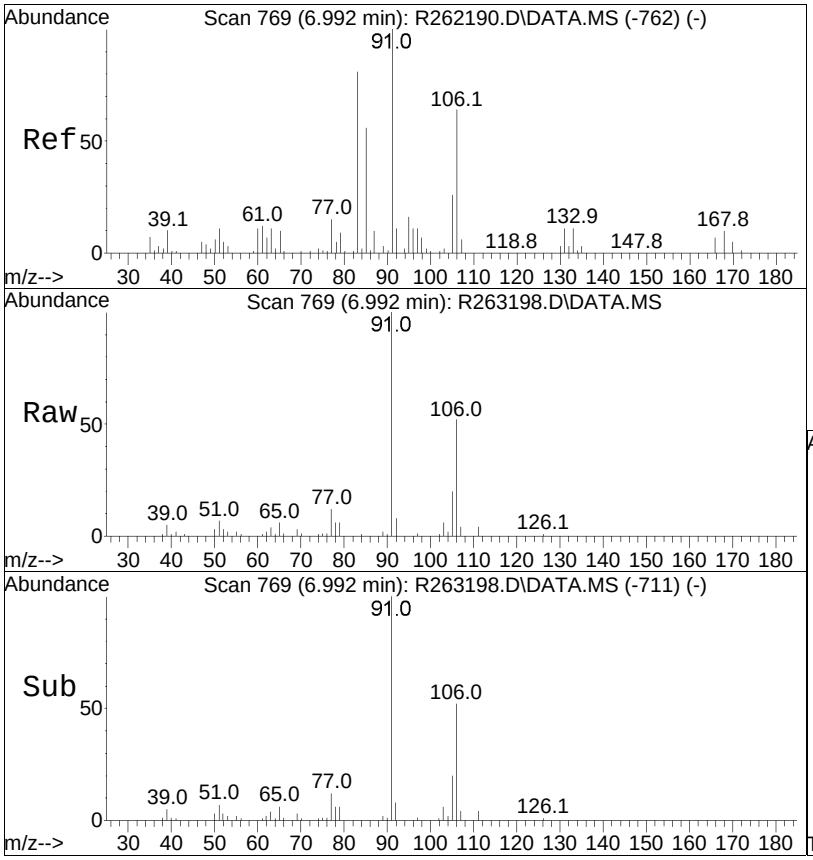


#85
styrene
Concen: 0.61 ppbV
RT: 6.940 min Scan# 760
Delta R.T. -0.001 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:104 Resp: 30545

Ion	Ratio	Lower	Upper
104	100		
103	45.2	37.4	56.0
78	36.4	29.0	43.6

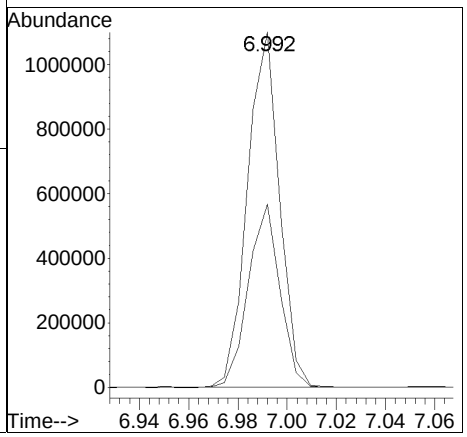


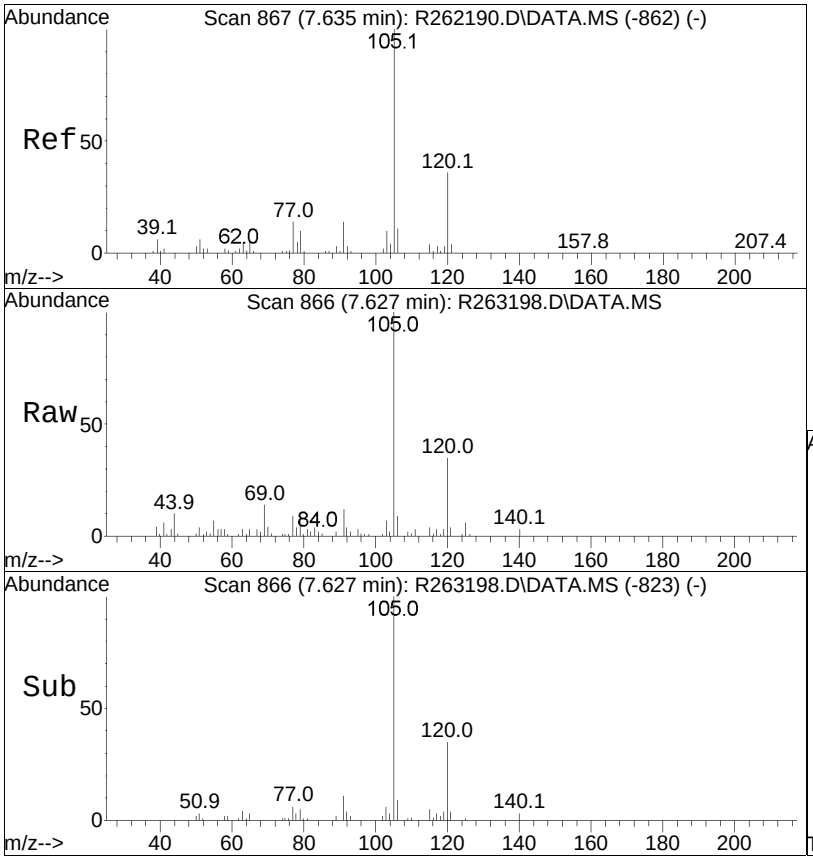


#87
o-xylene
Concen: 16.22 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.005 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion: 91 Resp: 994739

Ion	Ratio	Lower	Upper
91	100		
106	51.6	40.8	61.2

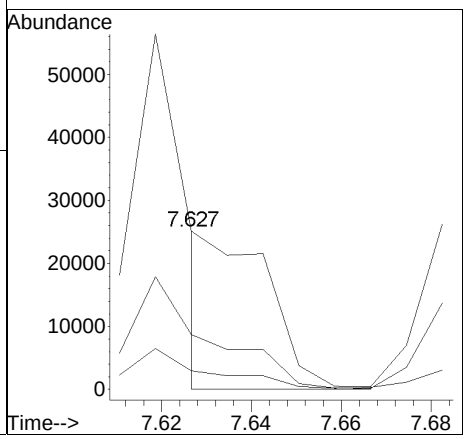


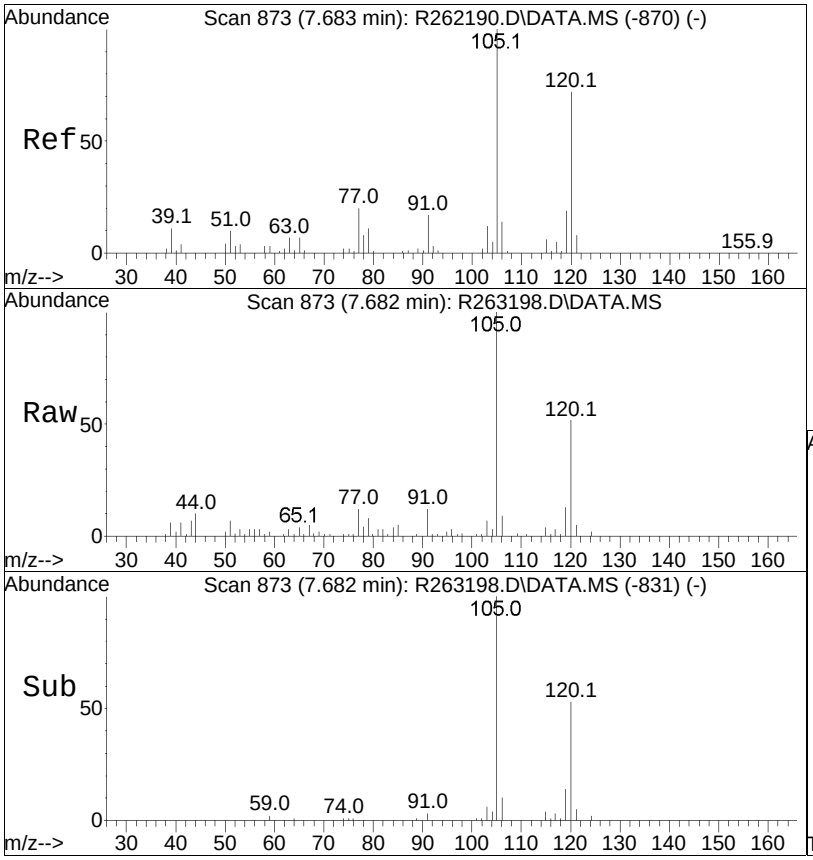


#96
4-ethyl toluene
Concen: 0.26 ppbV m
RT: 7.627 min Scan# 866
Delta R.T. -0.009 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:105 Resp: 22767

Ion	Ratio	Lower	Upper
105	100		
120	34.7	25.0	37.6
91	11.8	7.8	11.6#

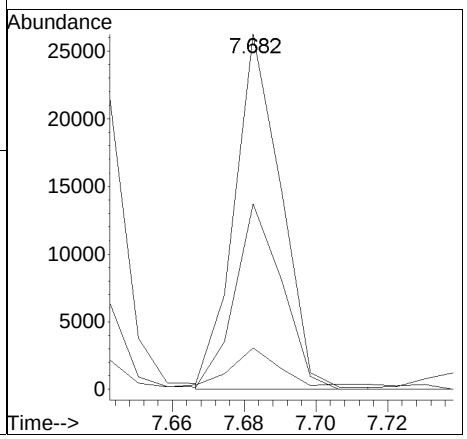


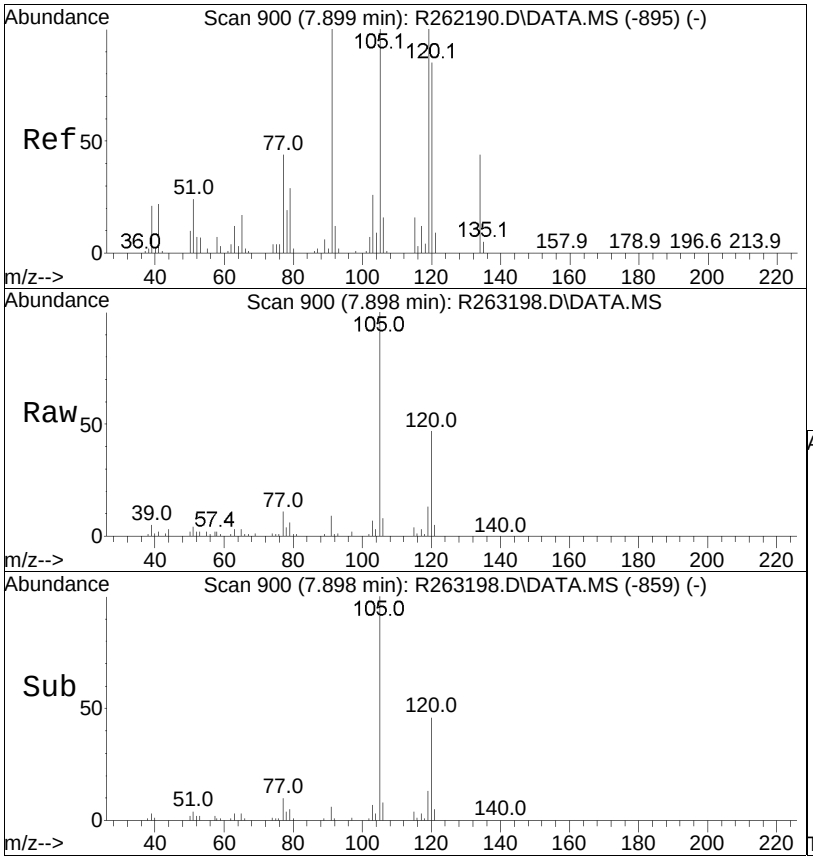


#97
1,3,5-trimethylbenzene
Concen: 0.32 ppbV
RT: 7.682 min Scan# 873
Delta R.T. -0.001 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:105 Resp: 23695

Ion	Ratio	Lower	Upper
105	100		
120	52.2	42.0	63.0
91	11.7	7.1	10.7#

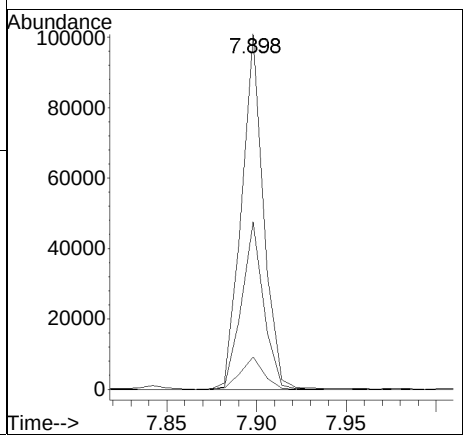




#99
1,2,4-trimethylbenzene
Concen: 1.15 ppbV
RT: 7.898 min Scan# 900
Delta R.T. -0.001 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:105 Resp: 86603

Ion	Ratio	Lower	Upper
105	100		
120	47.2	44.5	66.7
91	9.2	35.1	52.7#

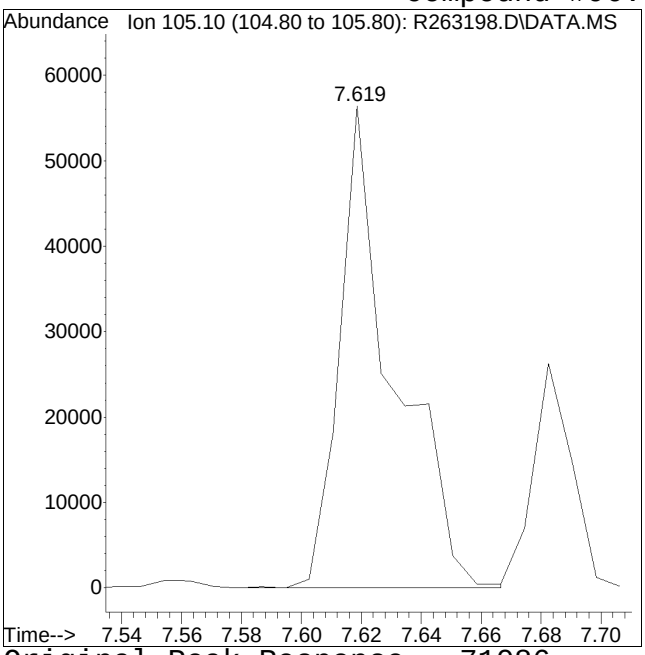


Manual Integration Report

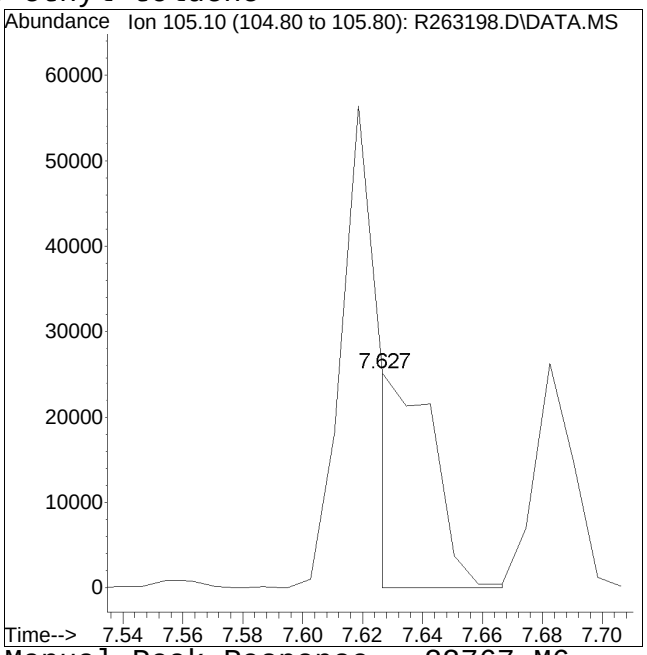
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R263198.D
Date Inj'd : 4/23/2025 1:30 am
Sample : L2522632-01,3,250,250

Method : TFS26_250402.M
Operator : AIRLAB26:KJD
Instrument : Airlab26
Quant Date : 4/23/2025 7:09 am

Compound #96: 4-ethyl toluene



Original Peak Response = 71086



Manual Peak Response = 22767 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\04\0422T\
Data File : R263199.D
Acq On : 23 Apr 2025 02:03 am
Operator : AIRLAB26:KJD
Sample : L2522632-02,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 07:10:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.516	49	160774	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 101.69%			
43) 1,4-difluorobenzene	4.365	114	659653	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 101.39%			
67) chlorobenzene-D5	6.455	54	86317	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 110.85%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.030	85	16701	0.480	ppbV	93
6) chloromethane	2.079	50	6358	0.617	ppbV	96
7) Freon-114	2.112		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.	d	
13) bromomethane	2.277	94	503	0.038	ppbV	95
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.365	31	730598	135.391	ppbV	95
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.506	43	8194167	618.561	ppbV #	85
21) trichlorofluoromethane	2.557	101	7574	0.238	ppbV	97
22) isopropyl alcohol	2.574	45	6450632	408.030	ppbV	99
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	2.770	49	23826	2.177	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	2.856		0	N.D.		
31) Freon 113	2.851	101	2027	0.074	ppbV #	95
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	3.288	43	50769	2.328	ppbV	98
38) Ethyl Acetate	3.546	61	97328	20.083	ppbV #	1
39) chloroform	3.568	83	1023	0.035	ppbV #	94
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.	d	
50) benzene	4.186	78	6259	0.139	ppbV #	77
53) cyclohexane	4.318	56	66843	3.456	ppbV	96
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263199.D
Acq On : 23 Apr 2025 02:03 am
Operator : AIRLAB26:KJD
Sample : L2522632-02,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 07:10:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

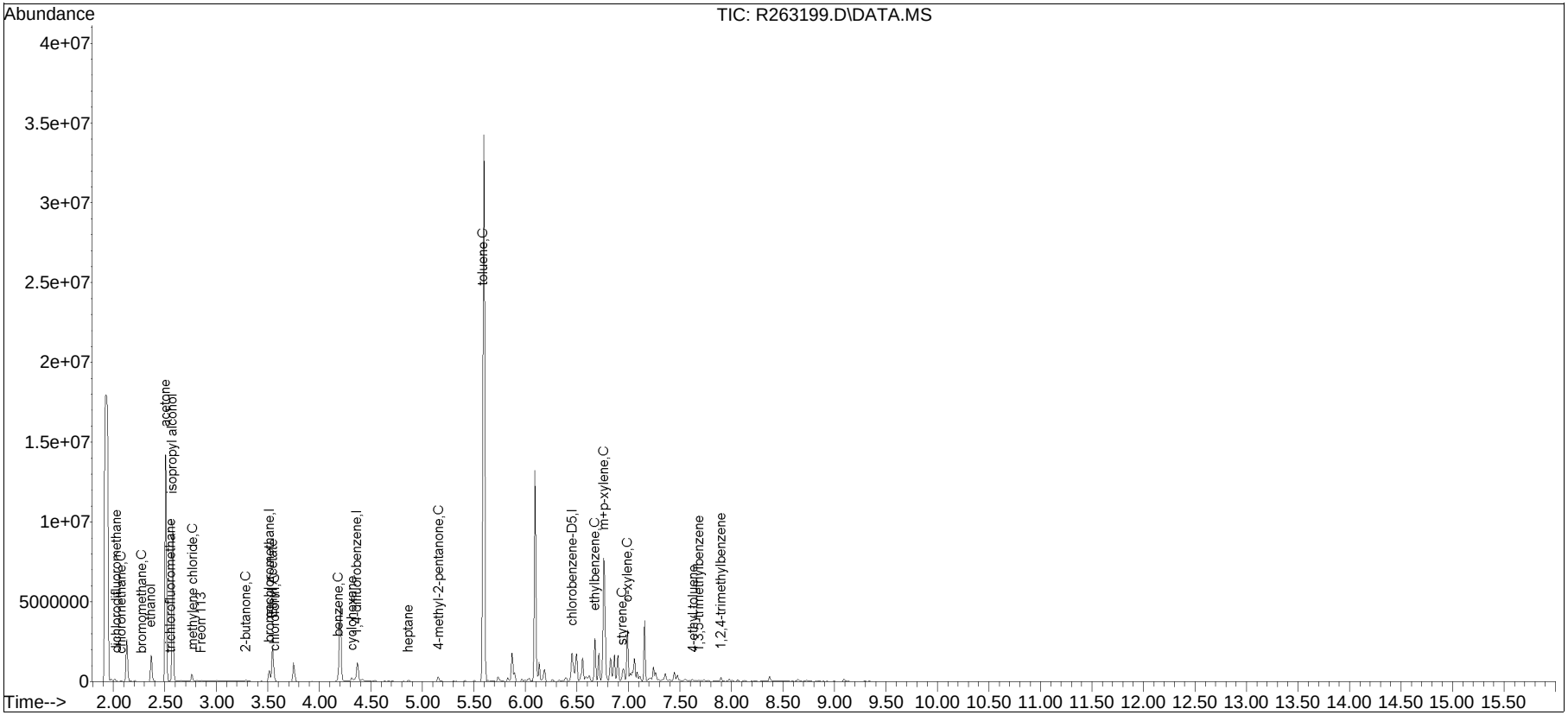
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D. d		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D. d		
62) heptane	4.865	43	20225	1.072	ppbV	95
63) cis-1,3-dichloropropene	0.000		0	N.D. d		
64) 4-methyl-2-pentanone	5.158	43	20178	0.856	ppbV #	50
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D. d		
68) toluene	5.589	91	13884970	221.959	ppbV #	78
72) 2-hexanone	0.000		0	N.D. d		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D. d		
81) ethylbenzene	6.673	91	1056106	13.178	ppbV	100
83) m+p-xylene	6.760	91	3424738	54.684	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	6.940	104	32454	0.648	ppbV	96
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D. d		
87) o-xylene	6.992	91	1066011	17.288	ppbV	99
96) 4-ethyl toluene	7.627	105	23603M6	0.273	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	25573	0.345	ppbV	96
99) 1,2,4-trimethylbenzene	7.899	105	88635	1.175	ppbV #	72
101) Benzyl Chloride	0.000		0	N.D. d		
102) 1,3-dichlorobenzene	0.000		0	N.D. d		
103) 1,4-dichlorobenzene	8.002		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D. d		
116) naphthalene	9.236		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

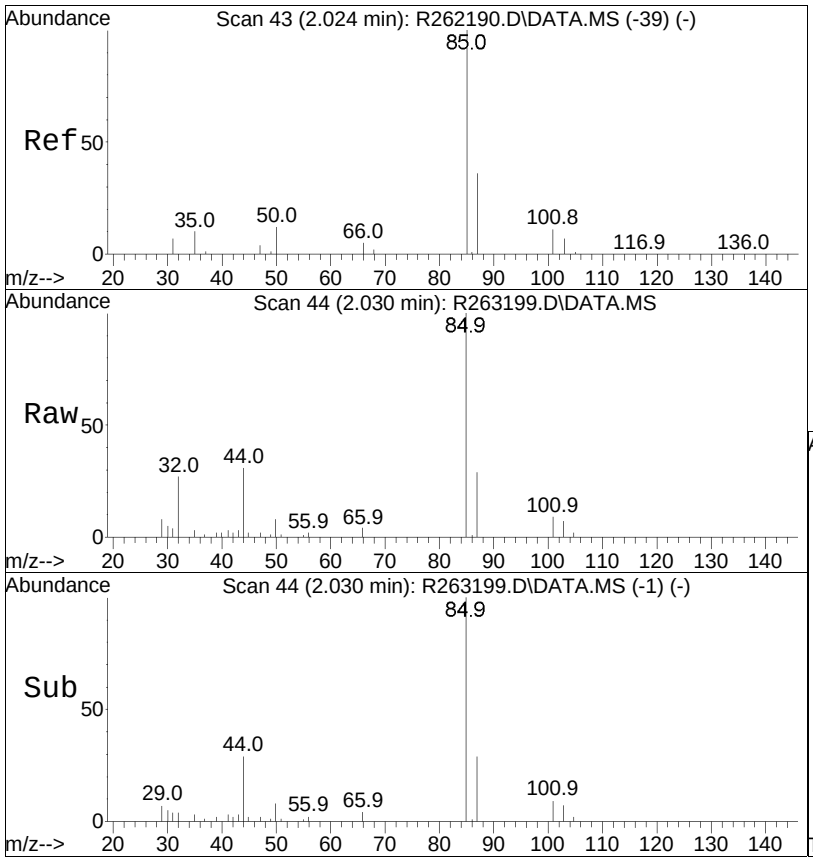
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263199.D
Acq On : 23 Apr 2025 02:03 am
Operator : AIRLAB26:KJD
Sample : L2522632-02,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 07:10:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

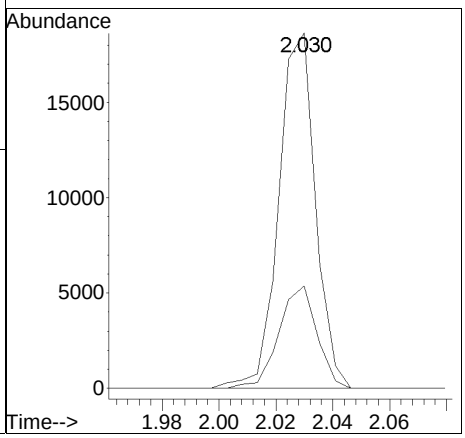


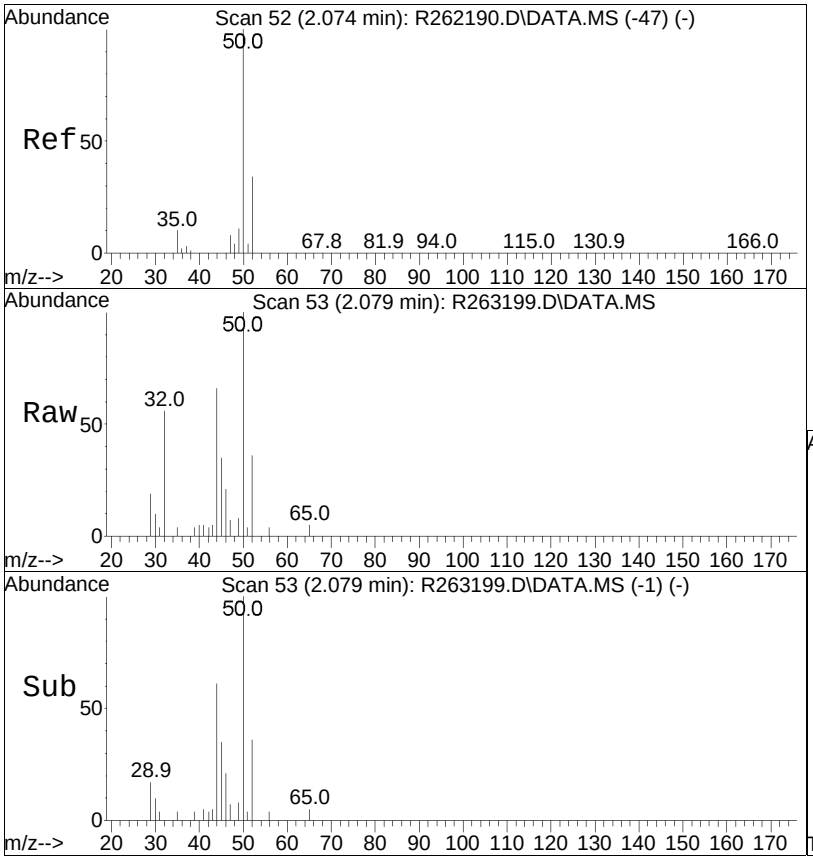


#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 2.030 min Scan# 44
Delta R.T. 0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 85 Resp: 16701

Ion	Ratio	Lower	Upper
85	100		
87	28.8	26.0	39.0

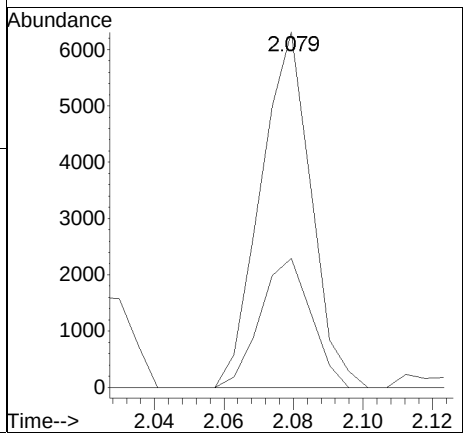


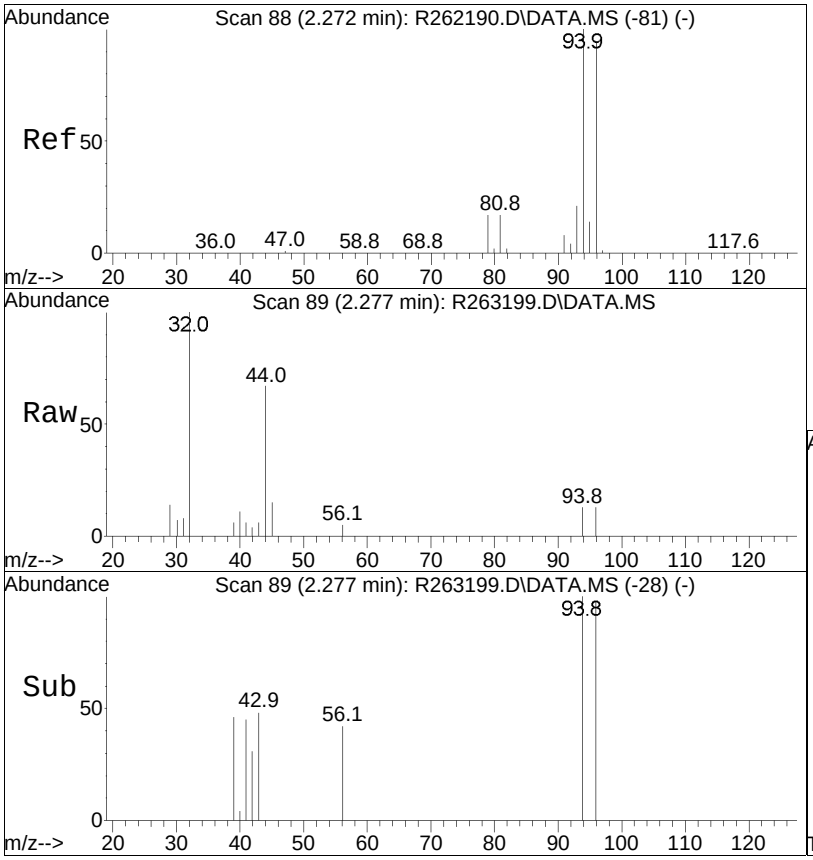


#6
chloromethane
Concen: 0.62 ppbV
RT: 2.079 min Scan# 53
Delta R.T. 0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 50 Resp: 6358

Ion	Ratio	Lower	Upper
50	100		
52	36.3	27.1	40.7

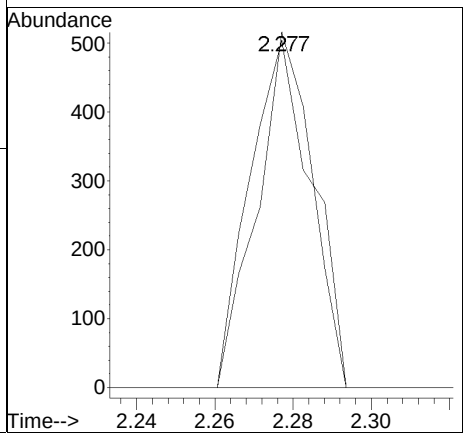


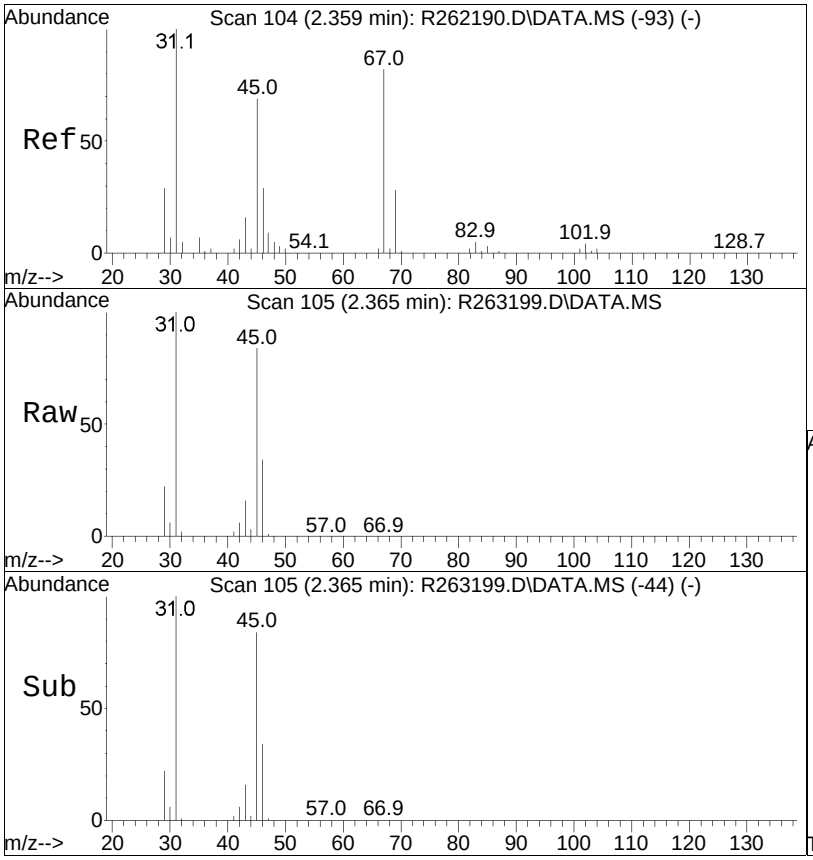


#13
bromomethane
Concen: 0.04 ppbV
RT: 2.277 min Scan# 89
Delta R.T. 0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 94 Resp: 503

Ion	Ratio	Lower	Upper
94	100		
96	97.7	74.6	112.0

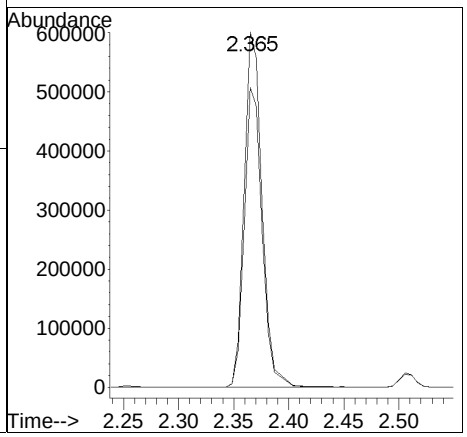


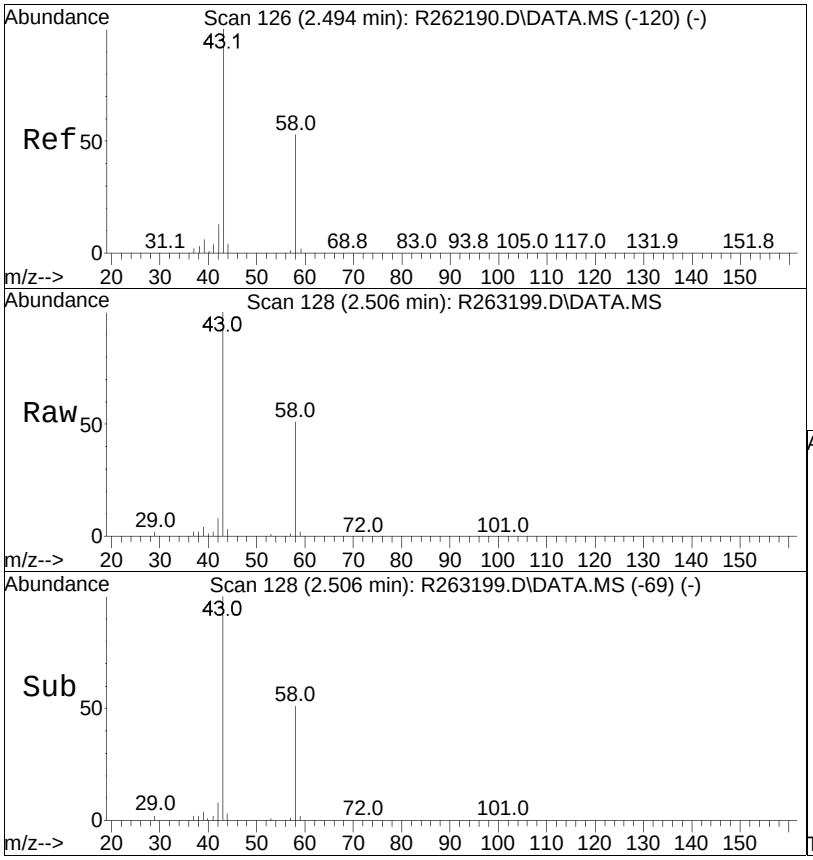


#15
ethanol
Concen: 135.39 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 31 Resp: 730598

Ion	Ratio	Lower	Upper
31	100		
45	84.4	64.3	96.5

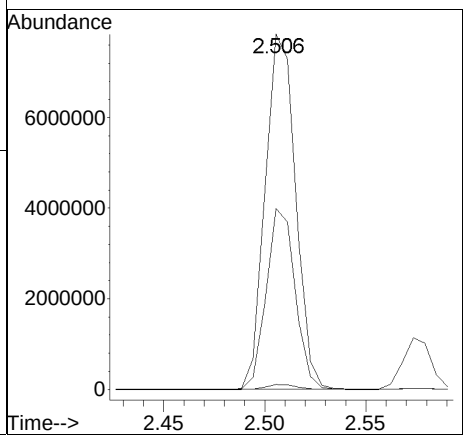


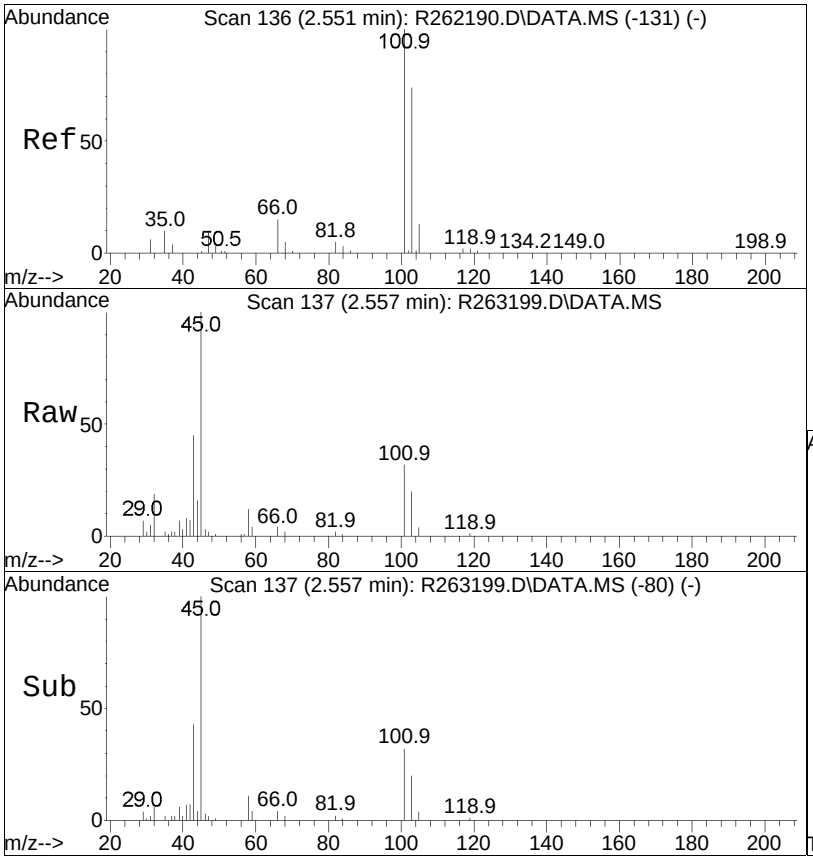


#19
acetone
Concen: 618.56 ppbV
RT: 2.506 min Scan# 128
Delta R.T. 0.006 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 43 Resp: 8194167

Ion	Ratio	Lower	Upper
43	100		
58	50.9	32.9	49.3#
57	1.4	1.0	1.4

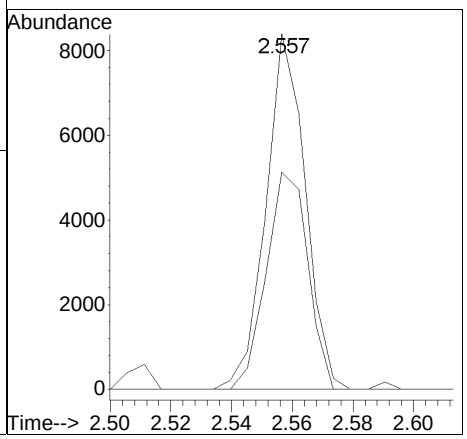


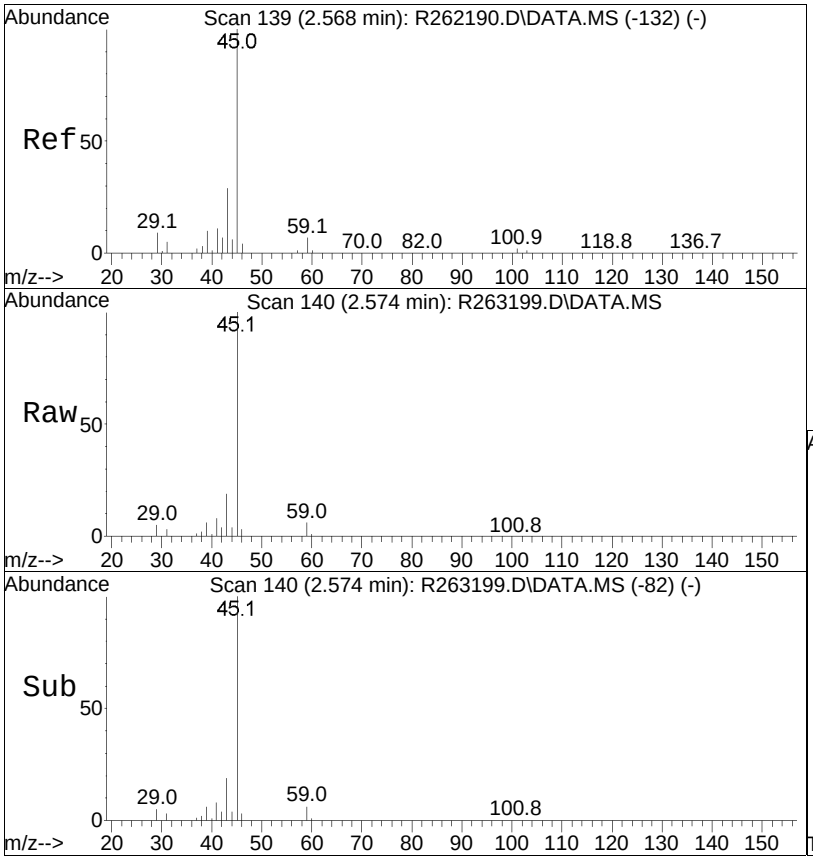


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 2.557 min Scan# 137
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:101 Resp: 7574

Ion	Ratio	Lower	Upper
101	100		
103	61.2	50.9	76.3

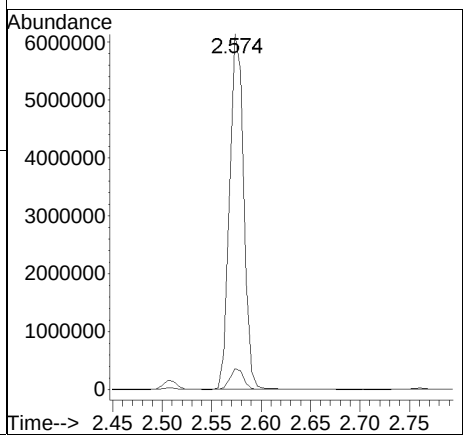


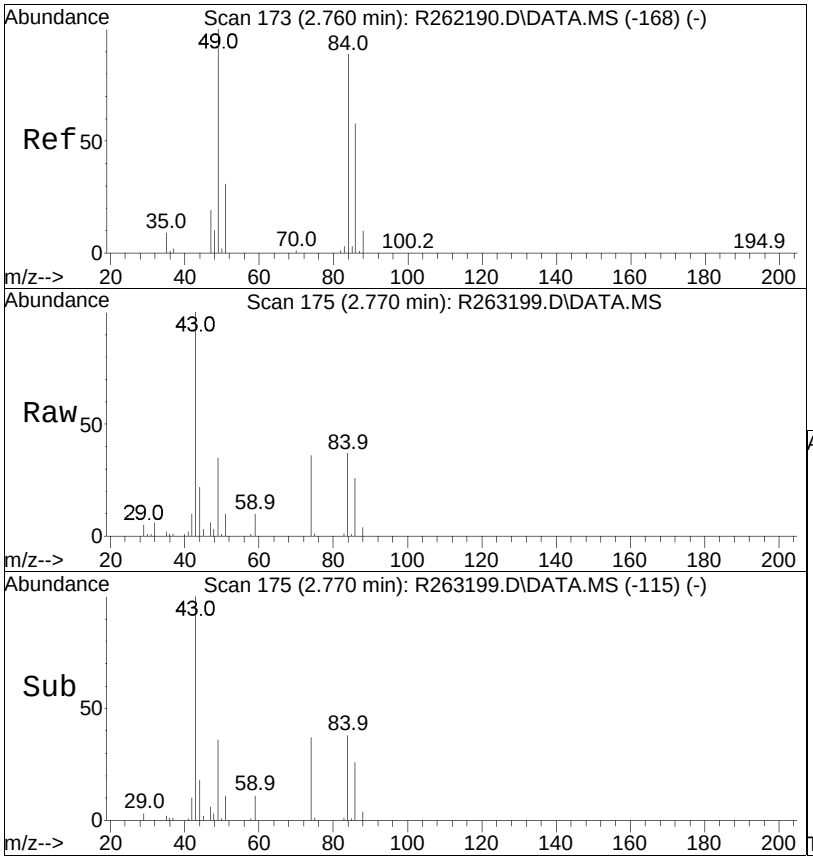


#22
isopropyl alcohol
Concen: 408.03 ppbV
RT: 2.574 min Scan# 140
Delta R.T. 0.006 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 45 Resp: 6450632

Ion	Ratio	Lower	Upper
45	100		
59	5.8	4.4	6.6

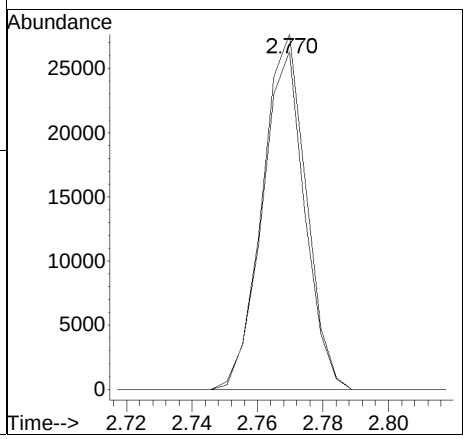


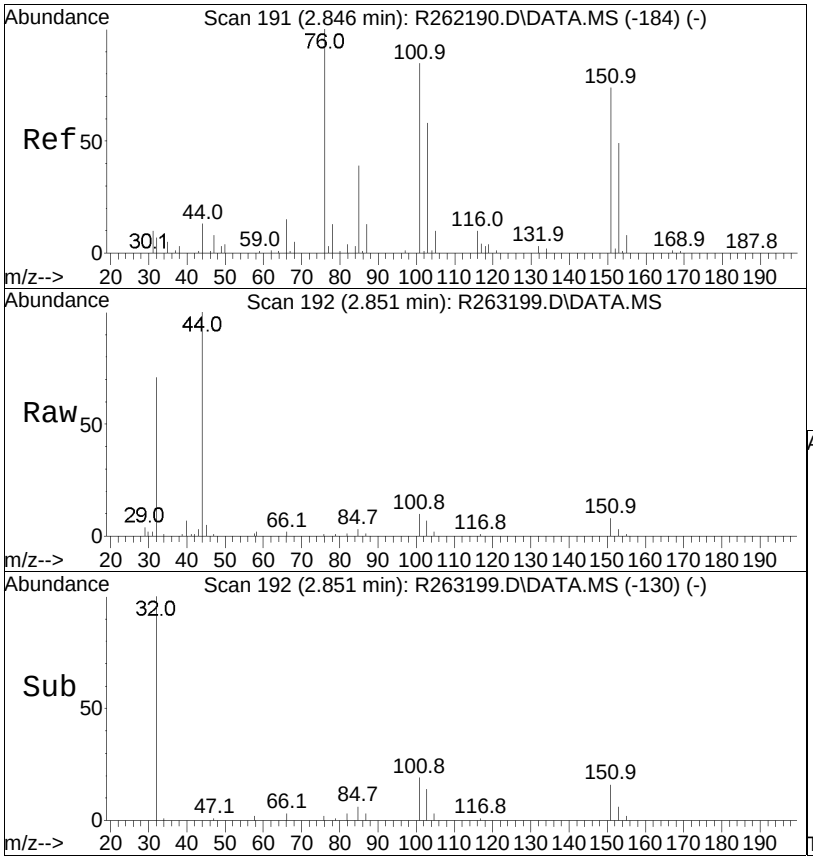


#28
methylene chloride
Concen: 2.18 ppbV
RT: 2.770 min Scan# 175
Delta R.T. 0.010 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 49 Resp: 23826

Ion	Ratio	Lower	Upper
49	100		
84	105.1	85.3	127.9

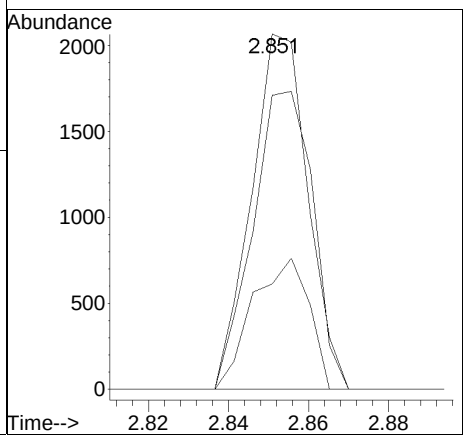


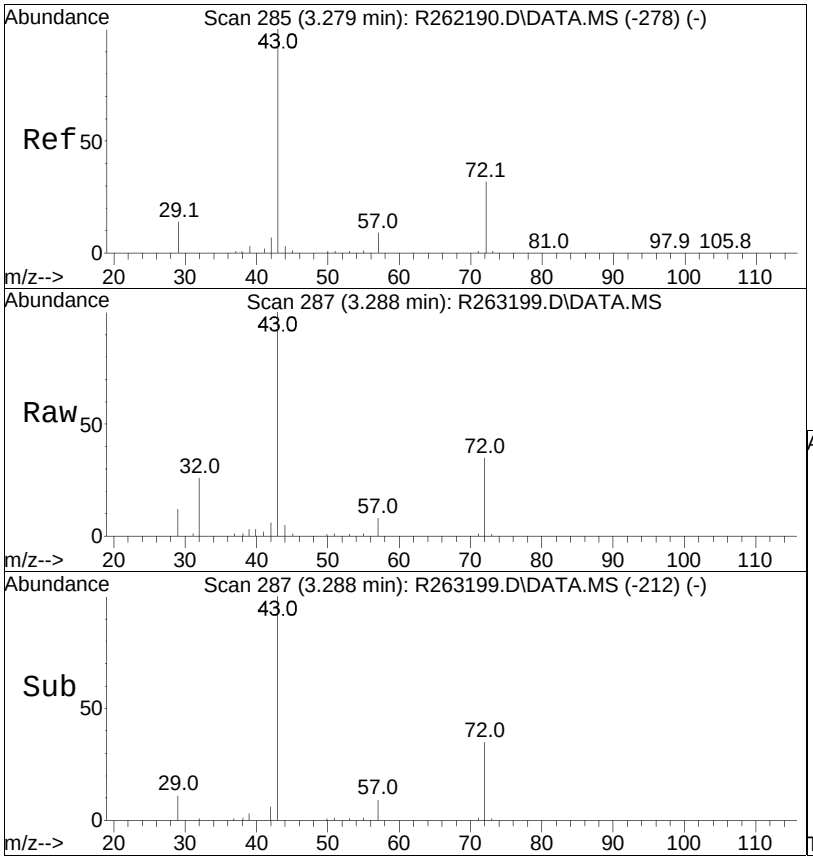


#31
Freon 113
Concen: 0.07 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:101 Resp: 2027

Ion	Ratio	Lower	Upper
101	100		
85	29.7	29.9	44.9#
151	82.8	67.5	101.3

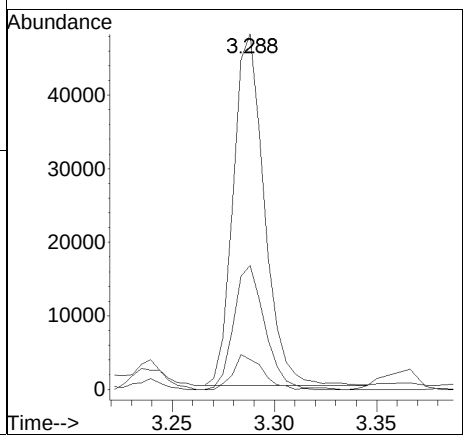


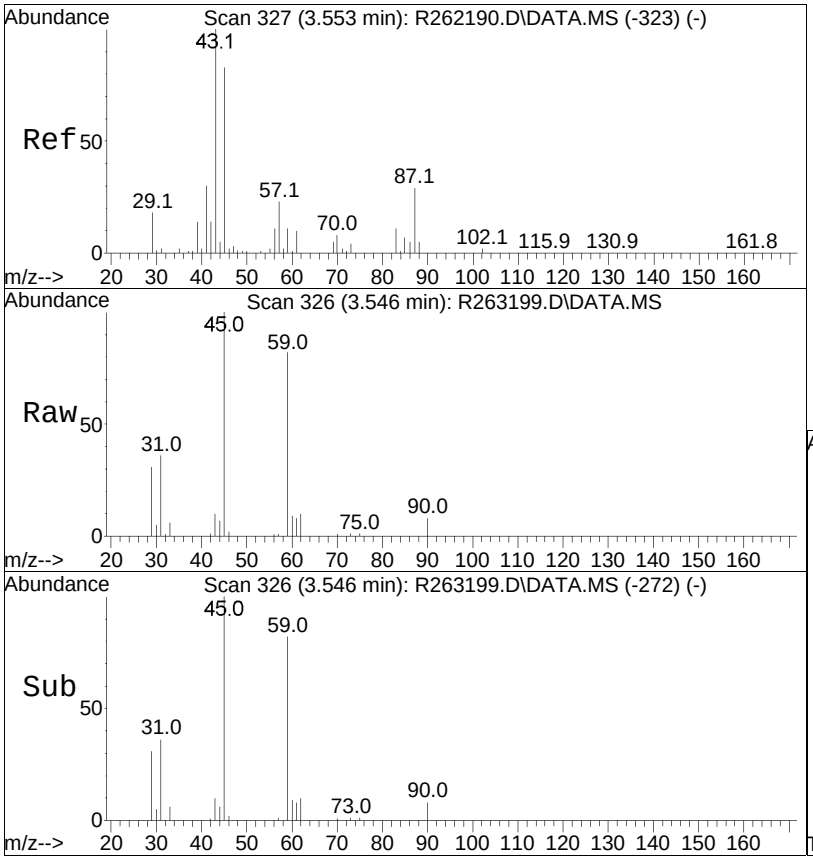


#36
2-butanone
Concen: 2.33 ppbV
RT: 3.288 min Scan# 287
Delta R.T. 0.009 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 43 Resp: 50769

Ion	Ratio	Lower	Upper
43	100		
72	34.9	27.1	40.7
57	8.4	7.4	11.2

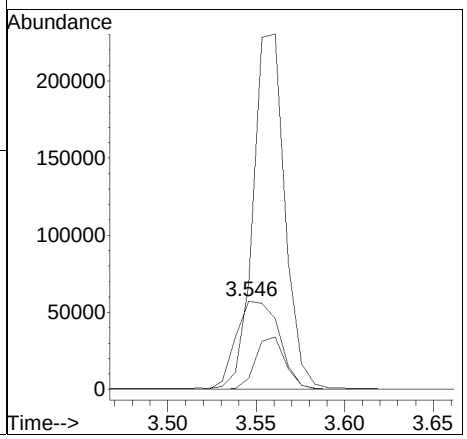


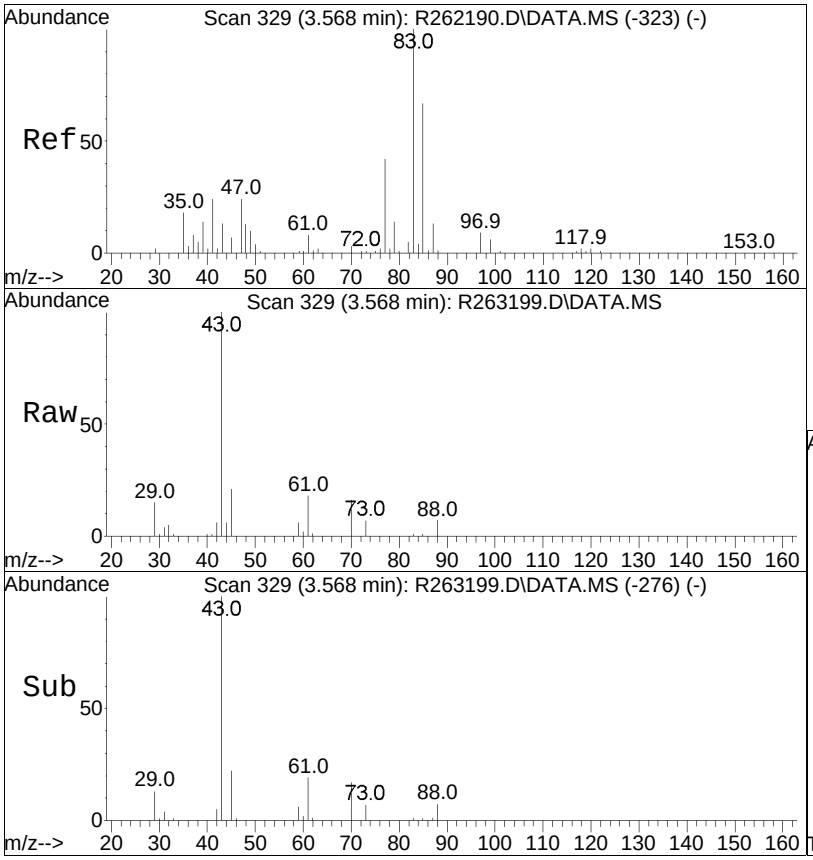


#38
Ethyl Acetate
Concen: 20.08 ppbV
RT: 3.546 min Scan# 326
Delta R.T. -0.007 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 61 Resp: 97328

Ion	Ratio	Lower	Upper
61	100		
70	12.7	70.6	105.8#
43	120.0	760.4	1140.6#

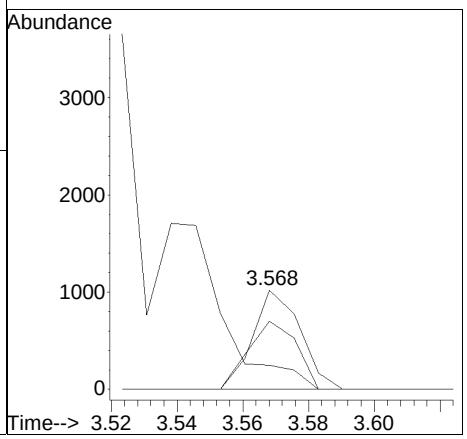


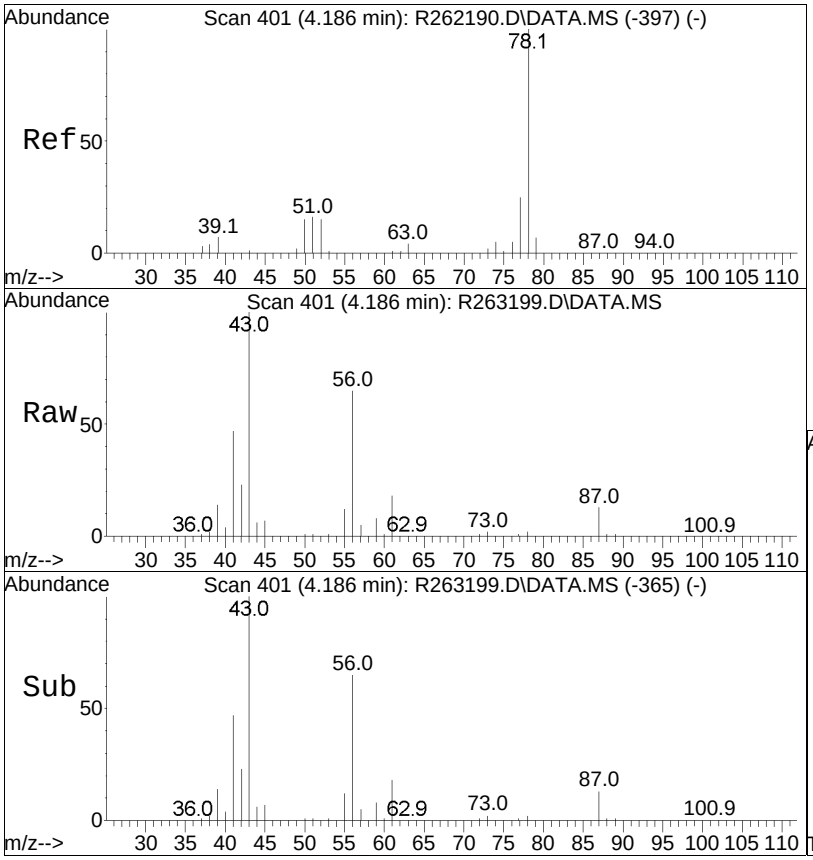


#39
chloroform
Concen: 0.03 ppbV
RT: 3.568 min Scan# 329
Delta R.T. -0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 83 Resp: 1023

Ion	Ratio	Lower	Upper
83	100		
85	68.8	52.6	78.8
47	24.3	14.1	21.1#

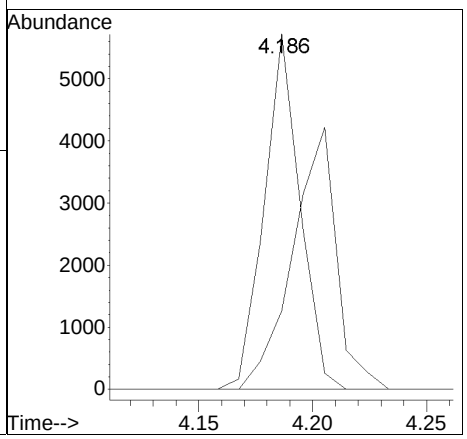


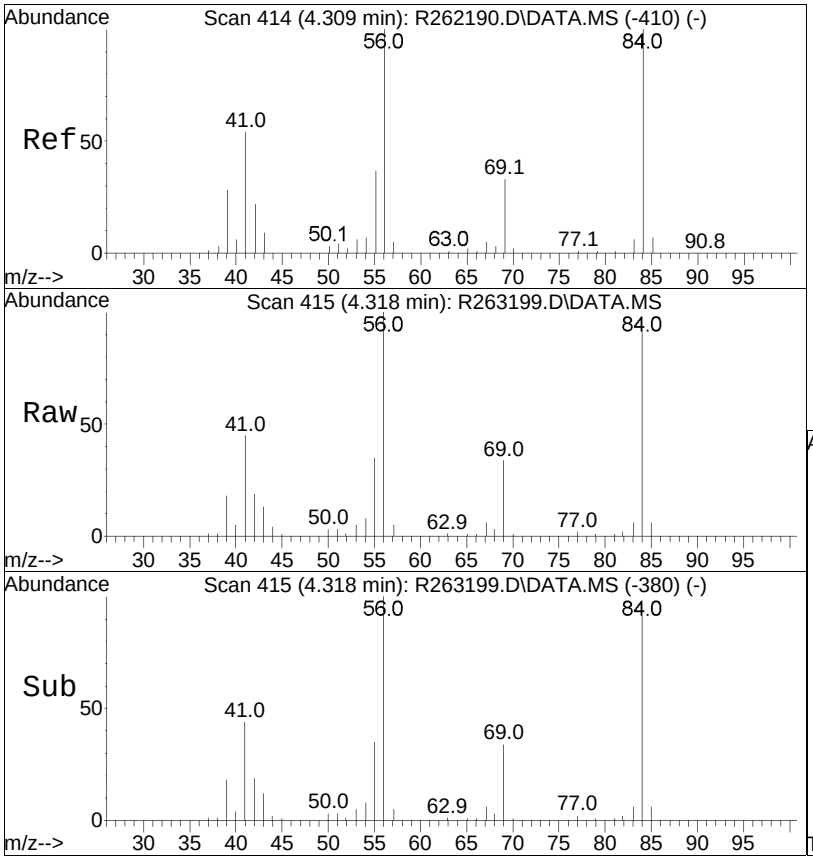


#50
benzene
Concen: 0.14 ppbV
RT: 4.186 min Scan# 401
Delta R.T. -0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 78 Resp: 6259

Ion	Ratio	Lower	Upper
78	100		
52	22.1	10.3	15.5#

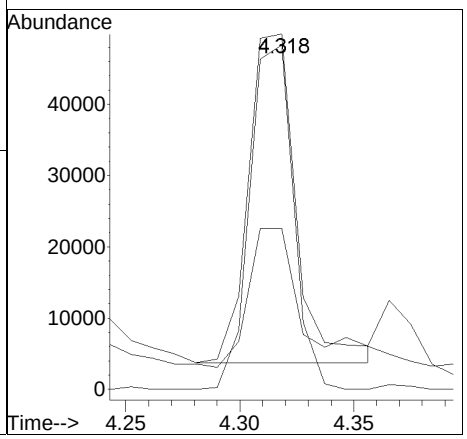


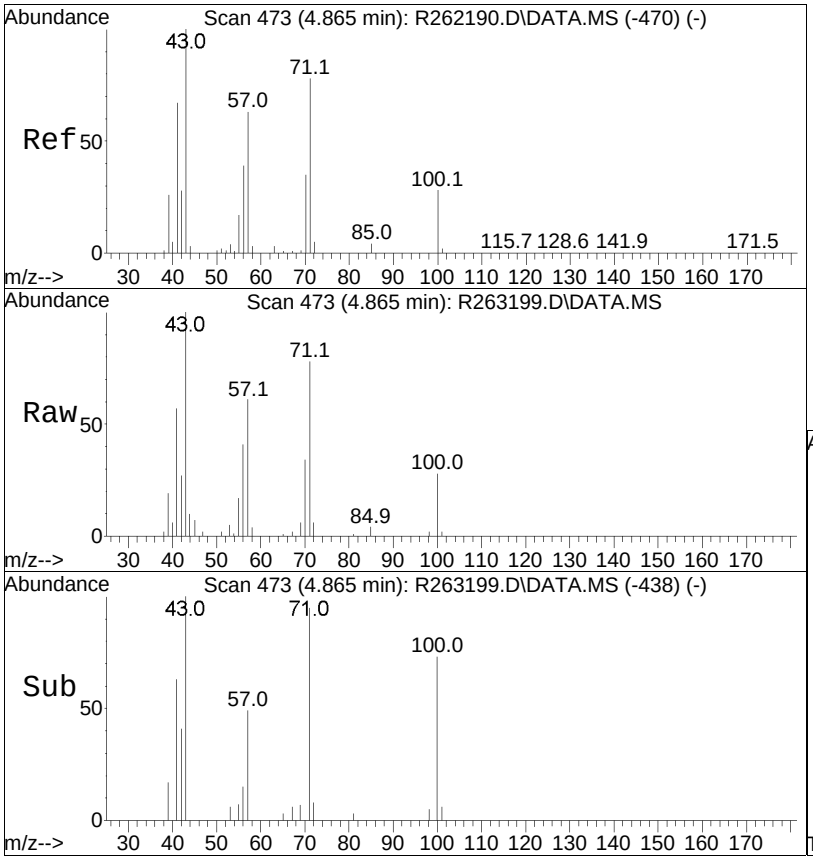


#53
cyclohexane
Concen: 3.46 ppbV
RT: 4.318 min Scan# 415
Delta R.T. 0.009 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 56 Resp: 66843

Ion	Ratio	Lower	Upper
56	100		
84	96.9	82.0	123.0
41	45.3	35.6	53.4

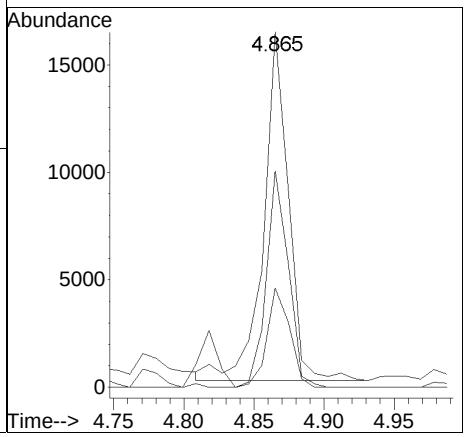


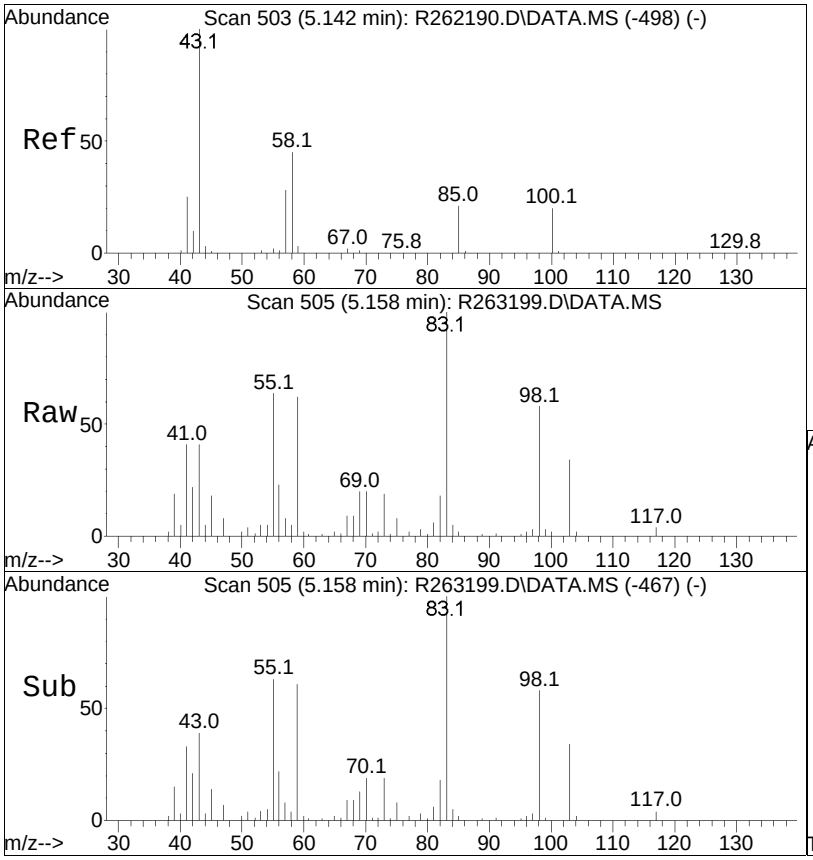


#62
heptane
Concen: 1.07 ppbV
RT: 4.865 min Scan# 473
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 43 Resp: 20225

Ion	Ratio	Lower	Upper
43	100		
57	61.0	52.1	78.1
100	28.0	24.8	37.2

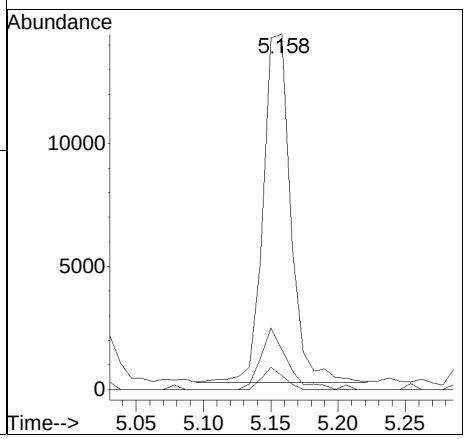


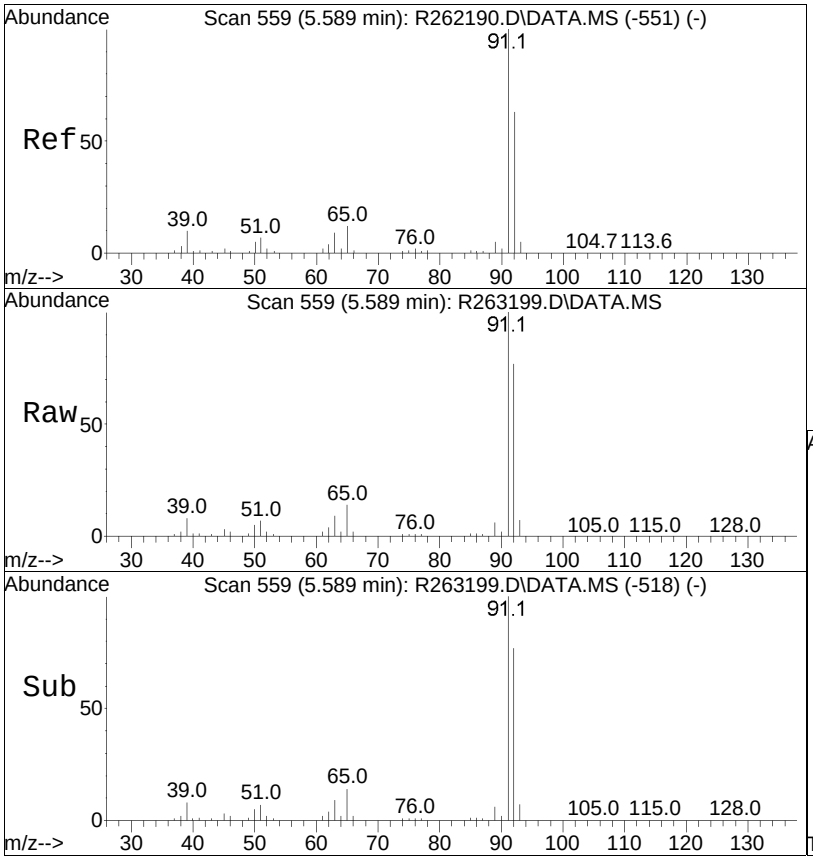


#64
4-methyl-2-pentanone
Concen: 0.86 ppbV
RT: 5.158 min Scan# 505
Delta R.T. 0.016 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 43 Resp: 20178

Ion	Ratio	Lower	Upper
43	100		
58	11.3	38.8	58.2#
100	3.9	18.2	27.4#

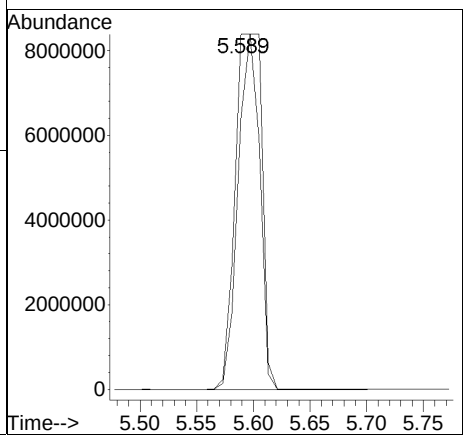


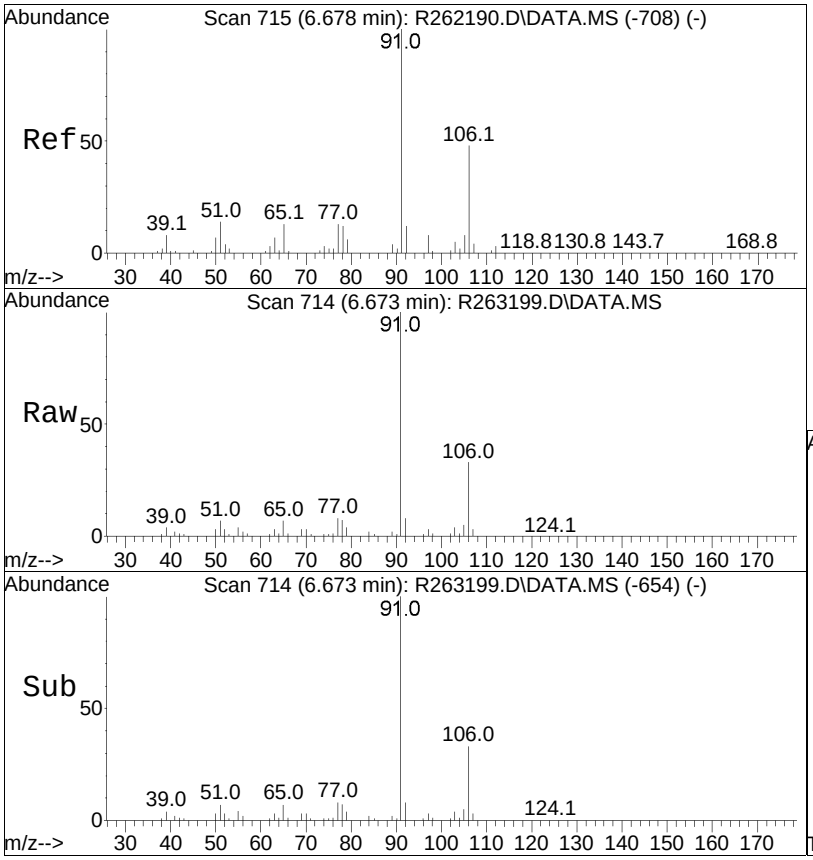


#68
toluene
Concen: 221.96 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 91 Resp:13884970

Ion	Ratio	Lower	Upper
91	100		
92	76.6	47.9	71.9#

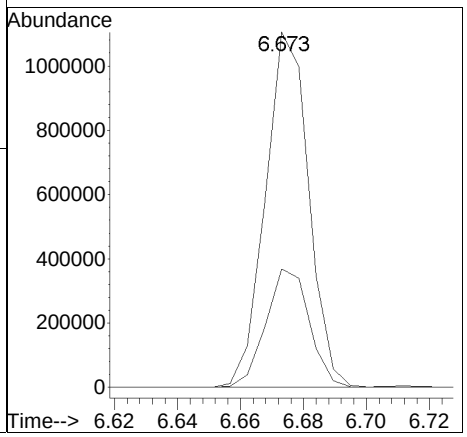


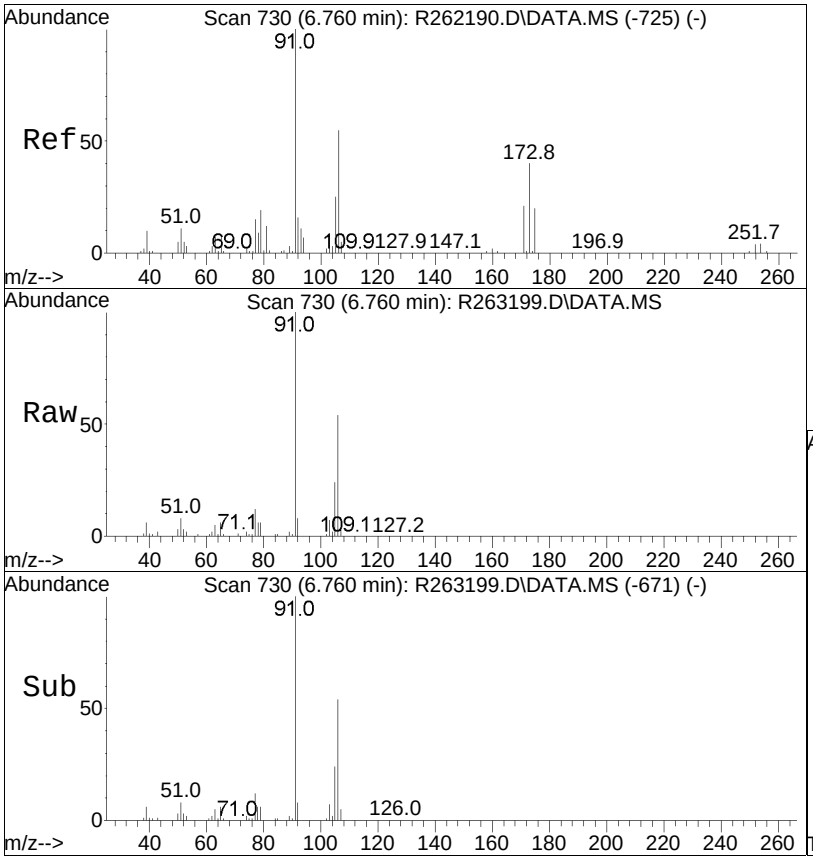


#81
ethylbenzene
Concen: 13.18 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 91 Resp: 1056106

Ion	Ratio	Lower	Upper
91	100		
106	33.3	26.6	39.8

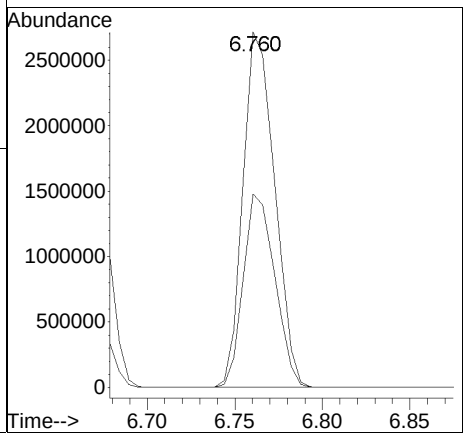


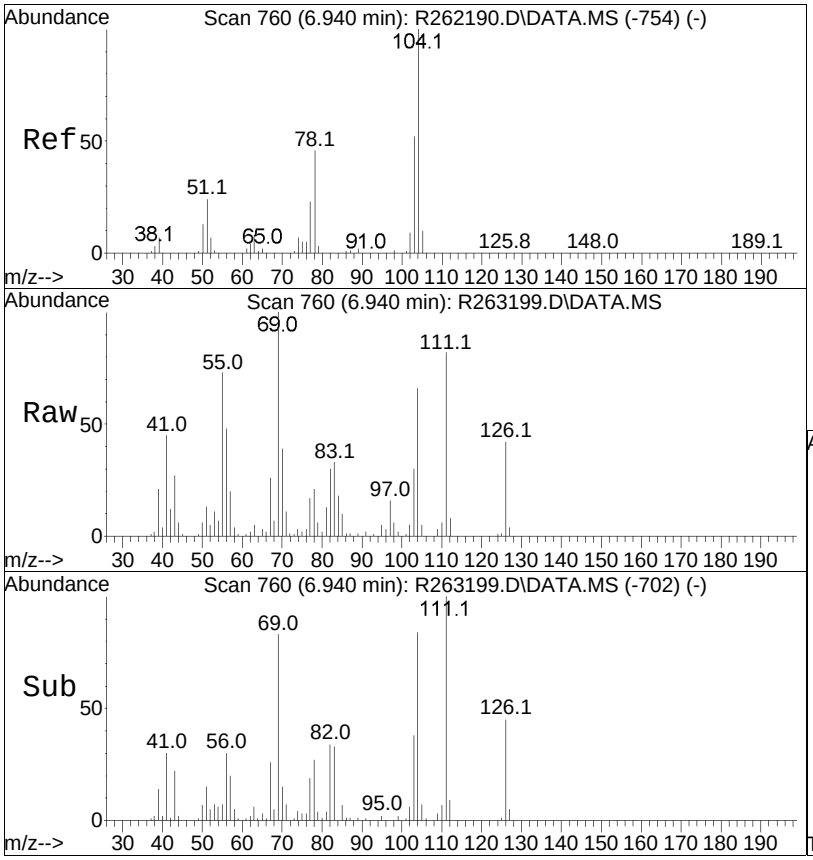


#83
m+p-xylene
Concen: 54.68 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.005 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 91 Resp: 3424738

Ion	Ratio	Lower	Upper
91	100		
106	54.4	40.6	60.8

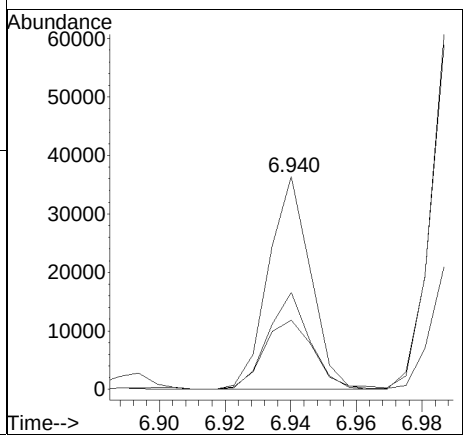


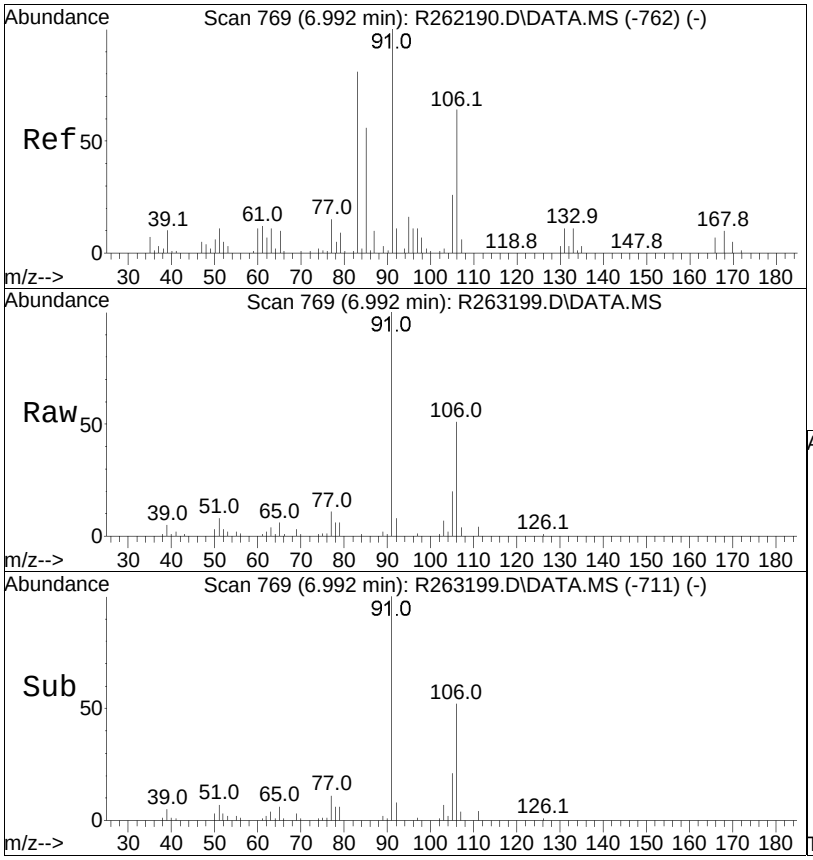


#85
styrene
Concen: 0.65 ppbV
RT: 6.940 min Scan# 760
Delta R.T. -0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:104 Resp: 32454

Ion	Ratio	Lower	Upper
104	100		
103	45.6	37.4	56.0
78	32.5	29.0	43.6

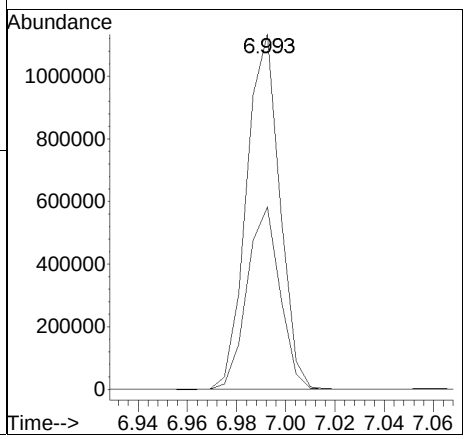


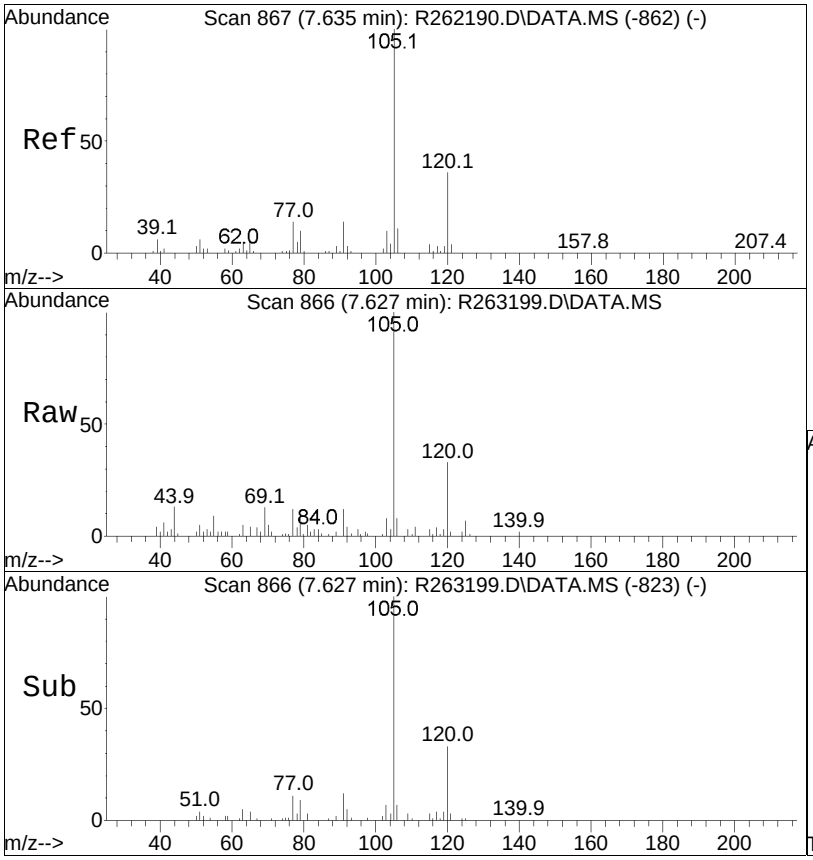


#87
o-xylene
Concen: 17.29 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.006 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion: 91 Resp: 1066011

Ion	Ratio	Lower	Upper
91	100		
106	51.4	40.8	61.2

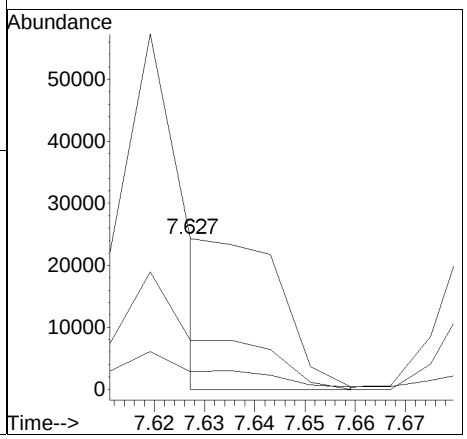


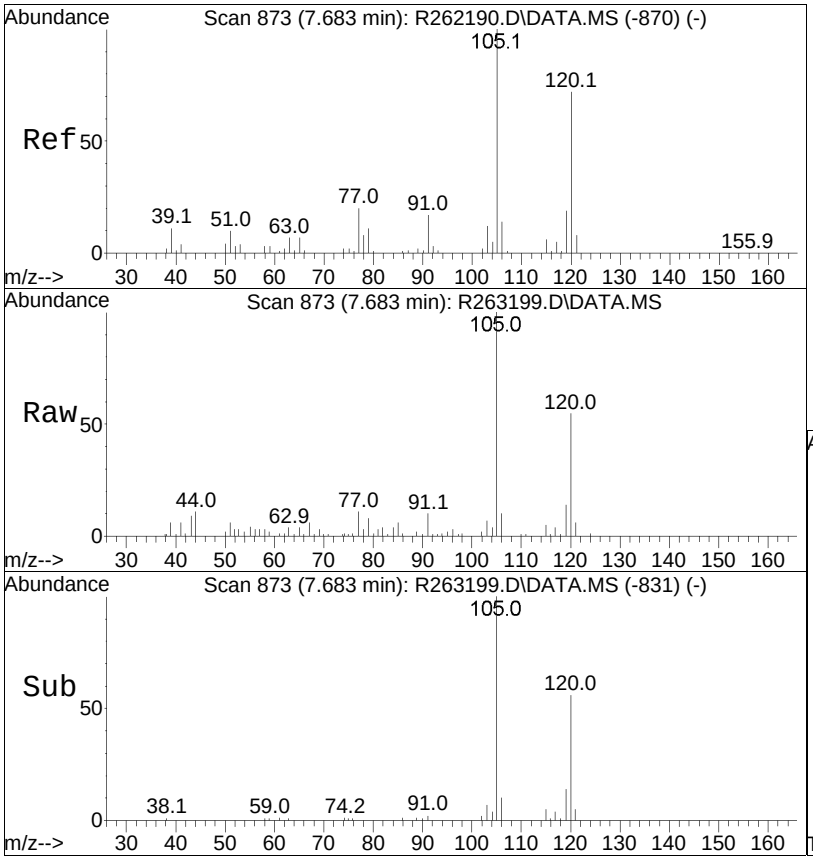


#96
4-ethyl toluene
Concen: 0.27 ppbV m
RT: 7.627 min Scan# 866
Delta R.T. -0.008 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:105 Resp: 23603

Ion	Ratio	Lower	Upper
105	100		
120	32.7	25.0	37.6
91	11.8	7.8	11.6#

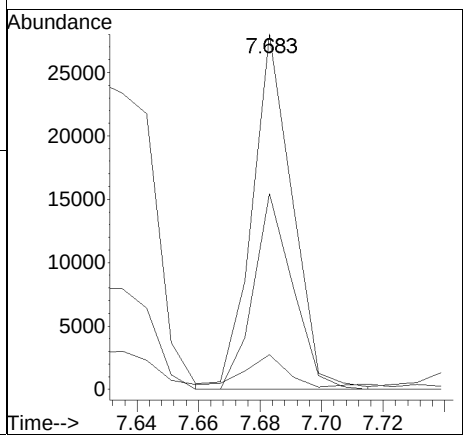


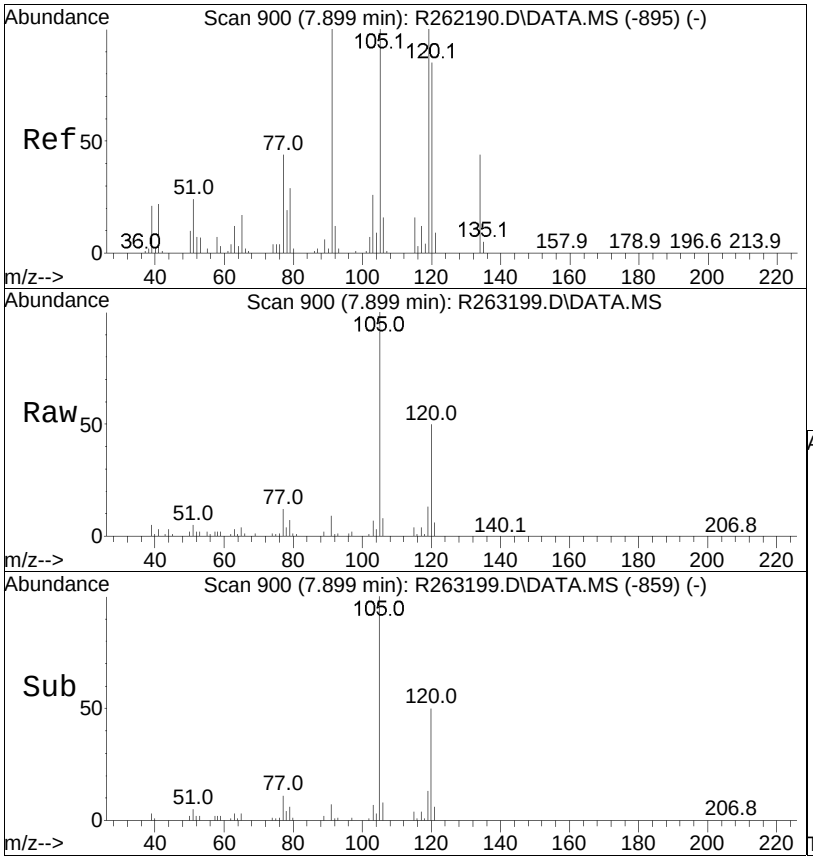


#97
1,3,5-trimethylbenzene
Concen: 0.35 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:105 Resp: 25573

Ion	Ratio	Lower	Upper
105	100		
120	55.1	42.0	63.0
91	9.8	7.1	10.7

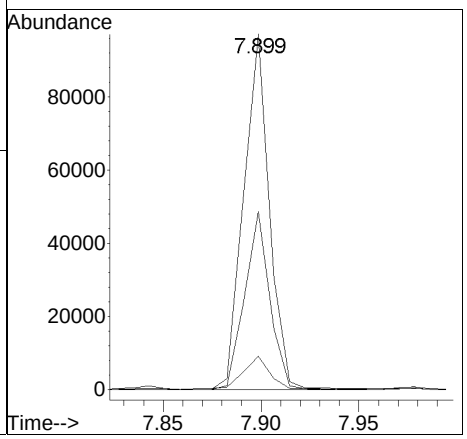




#99
1,2,4-trimethylbenzene
Concen: 1.17 ppbV
RT: 7.899 min Scan# 900
Delta R.T. -0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:105 Resp: 88635

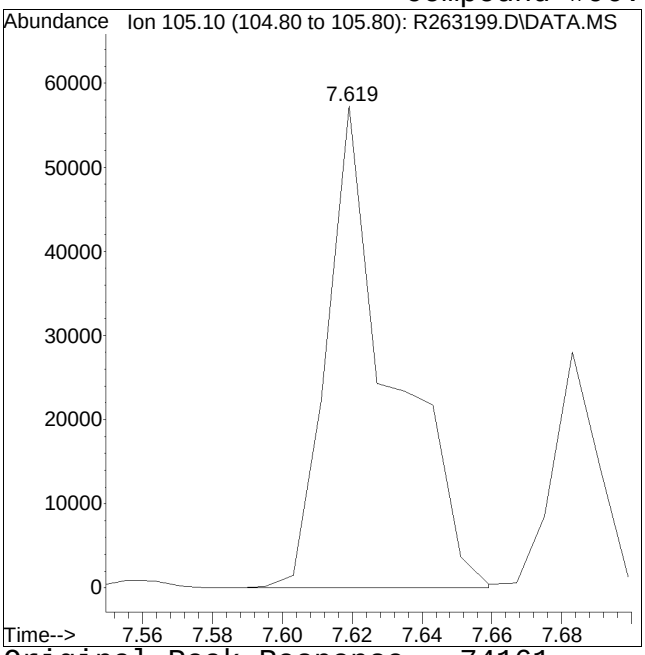
Ion	Ratio	Lower	Upper
105	100		
120	50.1	44.5	66.7
91	9.3	35.1	52.7#



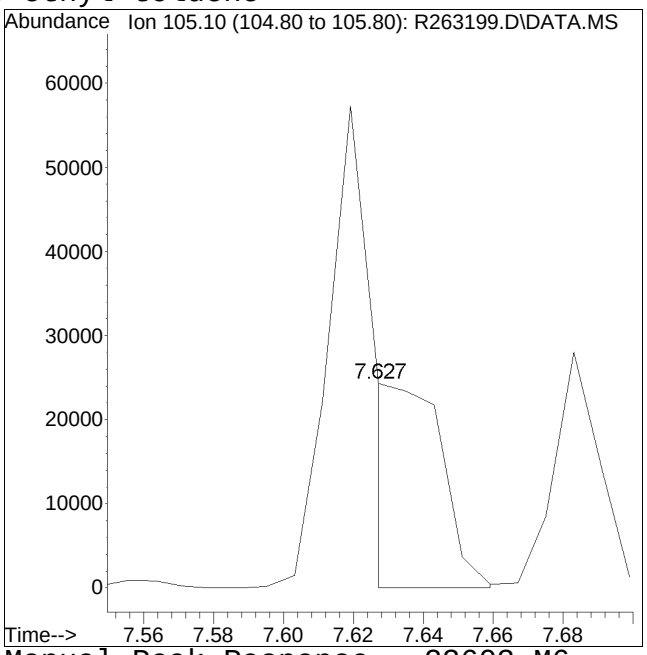
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263199.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 2:03 am Instrument : Airlab26
Sample : L2522632-02,3,250,250 Quant Date : 4/23/2025 7:10 am

Compound #96: 4-ethyl toluene



Original Peak Response = 74161



Manual Peak Response = 23603 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\04\0422T\
Data File : R263205.D
Acq On : 23 Apr 2025 07:44 am
Operator : AIRLAB26:KJD
Sample : L2522632-01D,3,50,250
Misc : WG2057225,ICAL22173
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 09:35:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Acetone+Toluene+IPA -

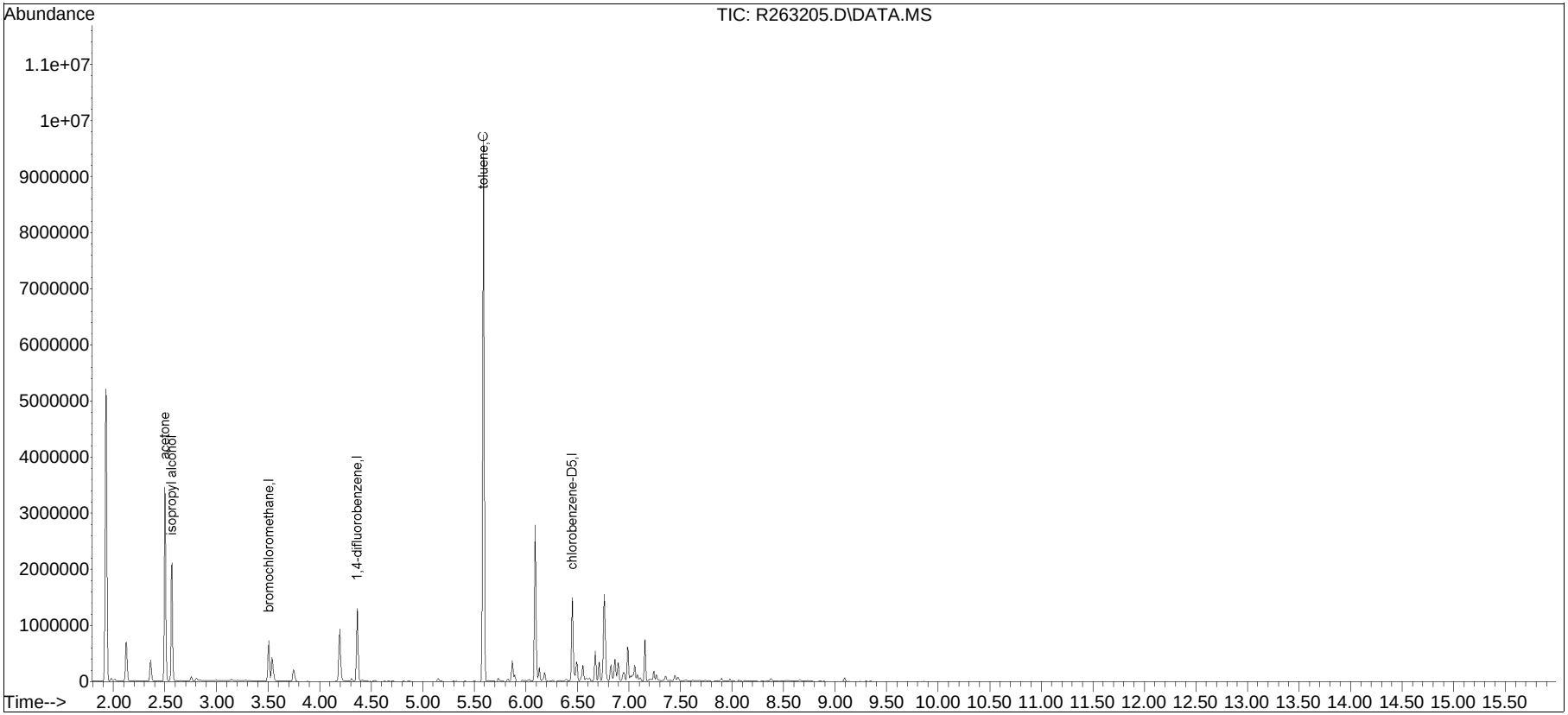
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	160163	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 101.30%			
43) 1,4-difluorobenzene	4.365	114	655784	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 100.79%			
67) chlorobenzene-D5	6.449	54	79742	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 102.41%			
System Monitoring Compounds						
Target Compounds						Qvalue
19) acetone	2.500	43	1887853	143.054	ppbV	97
22) isopropyl alcohol	2.568	45	1318637	83.728	ppbV	99
68) toluene	5.589	91	4350313	75.276	ppbV	97

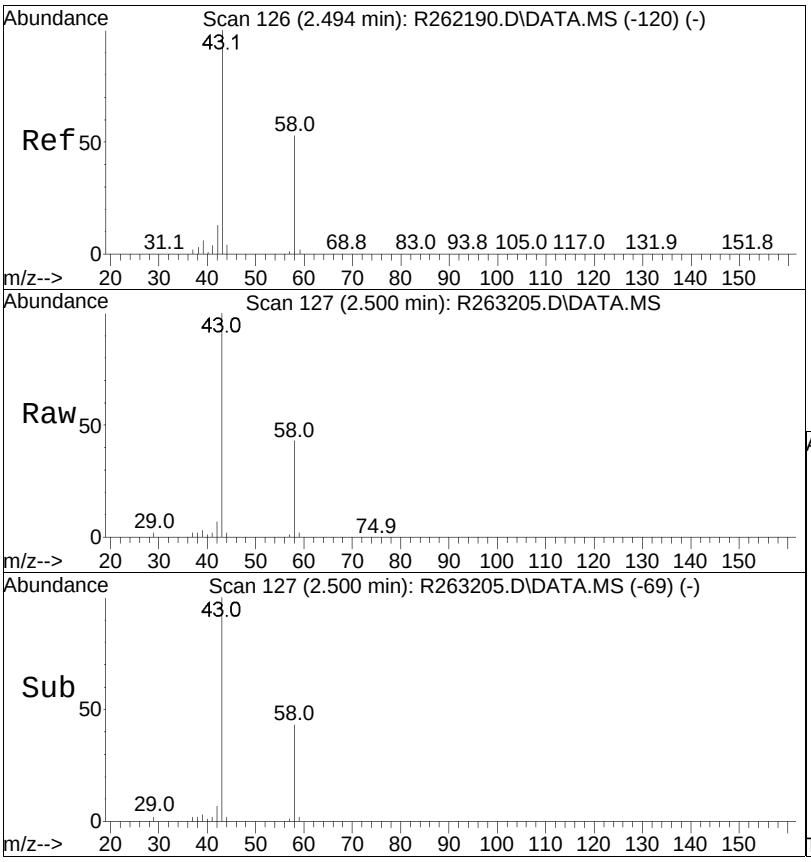
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Acetone+Toluene+IPA - \2025\04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263205.D
Acq On : 23 Apr 2025 07:44 am
Operator : AIRLAB26:KJD
Sample : L2522632-01D,3,50,250
Misc : WG2057225,ICAL22173
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 09:35:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

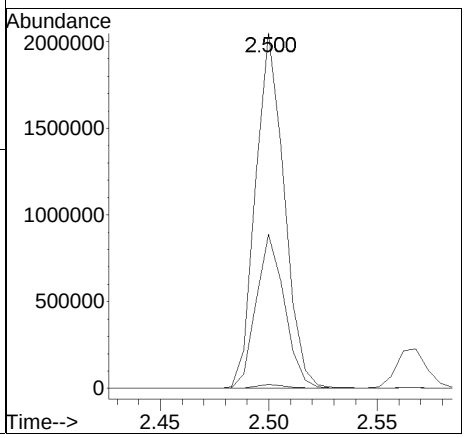


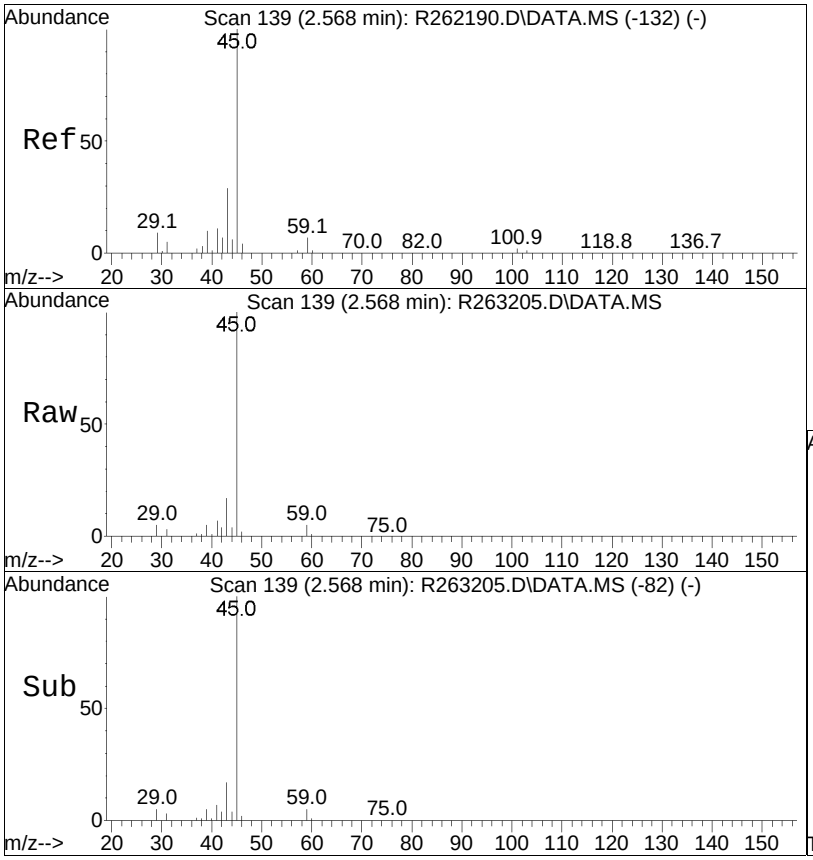


#19
acetone
Concen: 143.05 ppbV
RT: 2.500 min Scan# 127
Delta R.T. -0.000 min
Lab File: R263205.D
Acq: 23 Apr 2025 07:44 am

Tgt Ion: 43 Resp: 1887853

Ion	Ratio	Lower	Upper
43	100		
58	43.3	32.9	49.3
57	1.1	1.0	1.4

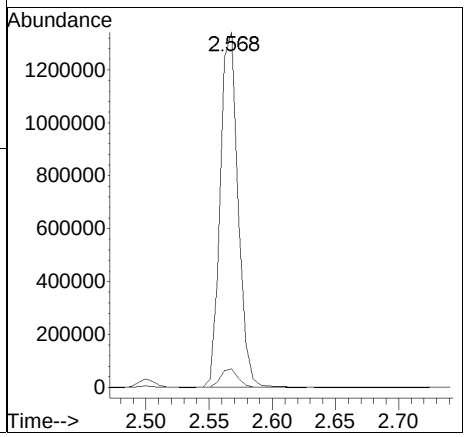


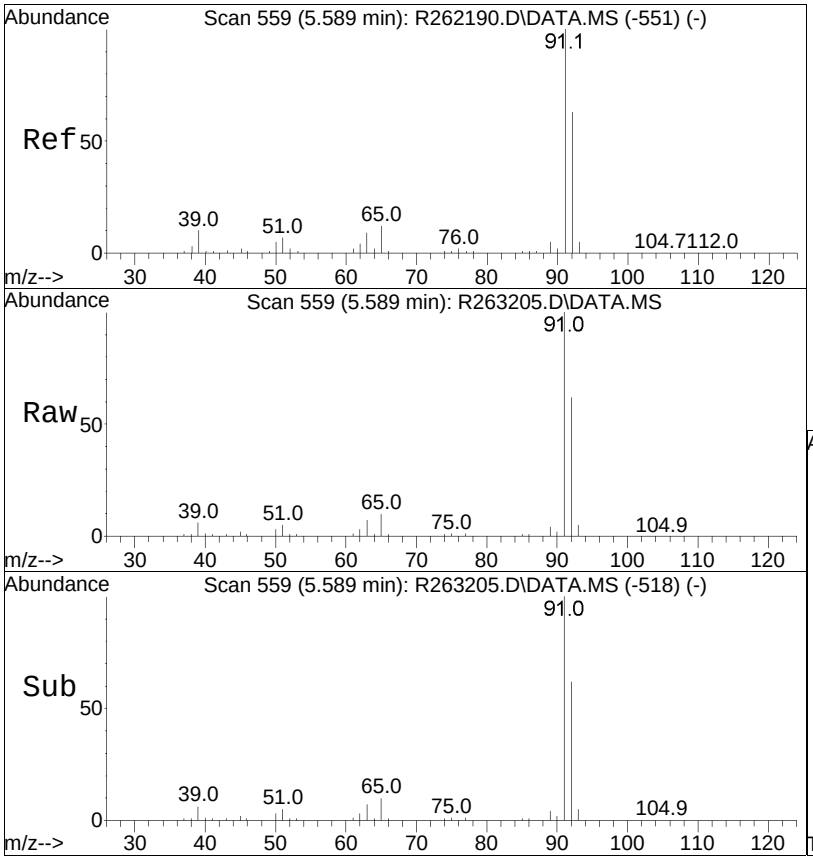


#22
isopropyl alcohol
Concen: 83.73 ppbV
RT: 2.568 min Scan# 139
Delta R.T. -0.000 min
Lab File: R263205.D
Acq: 23 Apr 2025 07:44 am

Tgt Ion: 45 Resp: 1318637

Ion	Ratio	Lower	Upper
45	100		
59	5.2	4.4	6.6

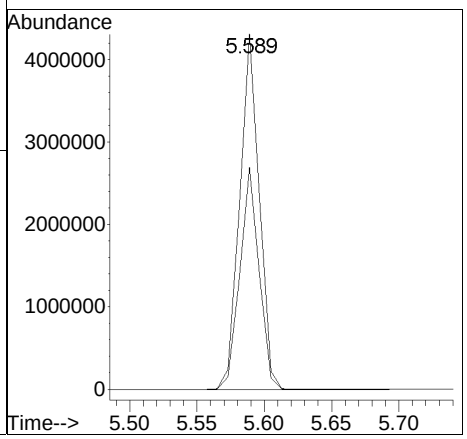




#68
toluene
Concen: 75.28 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R263205.D
Acq: 23 Apr 2025 07:44 am

Tgt Ion: 91 Resp: 4350313

Ion	Ratio	Lower	Upper
91	100		
92	62.4	47.9	71.9



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TFS26_250402.M
Data File	: R263205.D	Operator	: AIRLAB26:KJD
Date Inj'd	: 4/23/2025 7:44 am	Instrument	: Airlab26
Sample	: L2522632-01D,3,50,250	Quant Date	: 4/23/2025 9:35 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263206.D
Acq On : 23 Apr 2025 08:14 am
Operator : AIRLAB26:KJD
Sample : L2522632-02D,3,50,250
Misc : WG2057225,ICAL22173
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 09:36:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Acetone+Toluene+IPA -

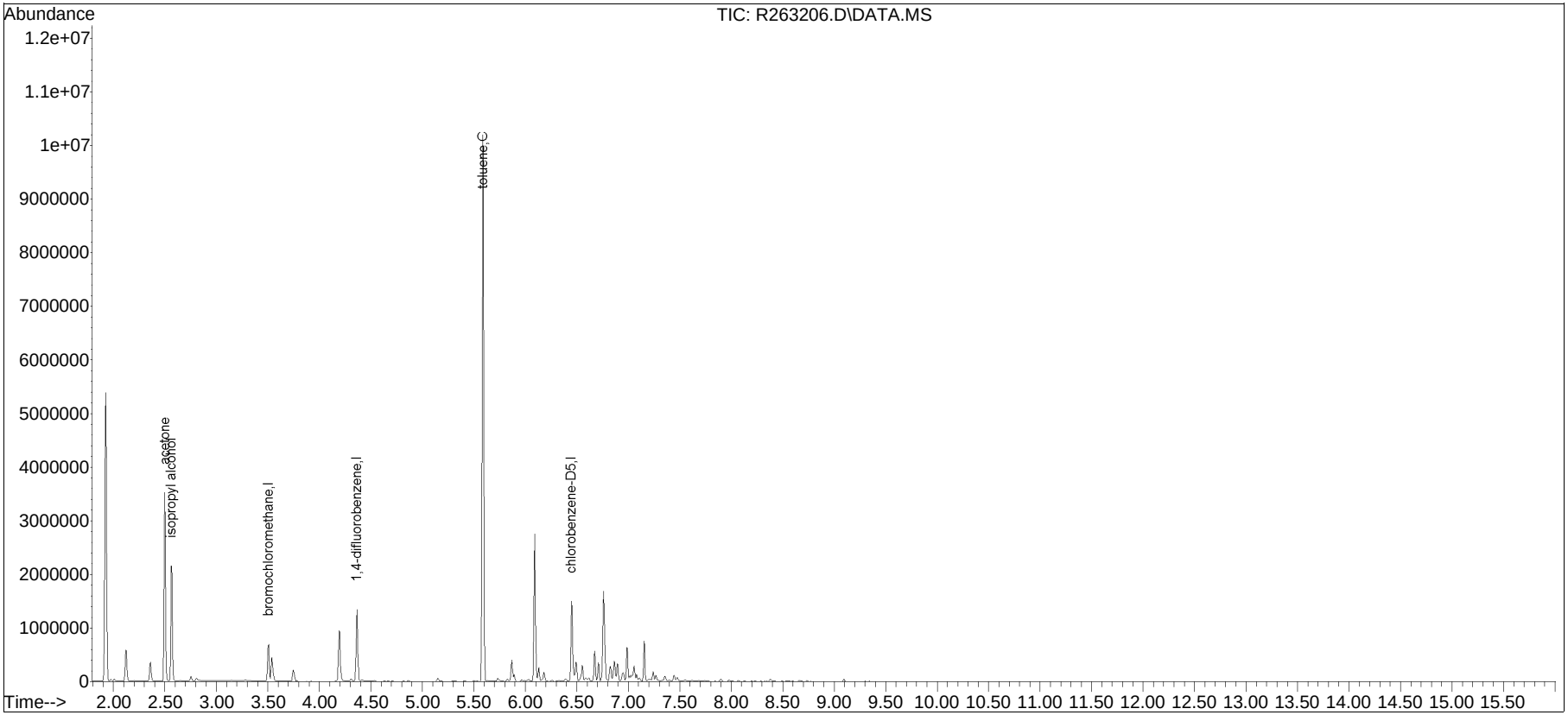
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	162077	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 102.51%			
43) 1,4-difluorobenzene	4.365	114	670604	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 103.07%			
67) chlorobenzene-D5	6.449	54	79832	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 102.52%			
System Monitoring Compounds						
Target Compounds						Qvalue
19) acetone	2.500	43	2007444	150.320	ppbV	96
22) isopropyl alcohol	2.562	45	1352806	84.883	ppbV	99
68) toluene	5.589	91	4561294	78.838	ppbV	97

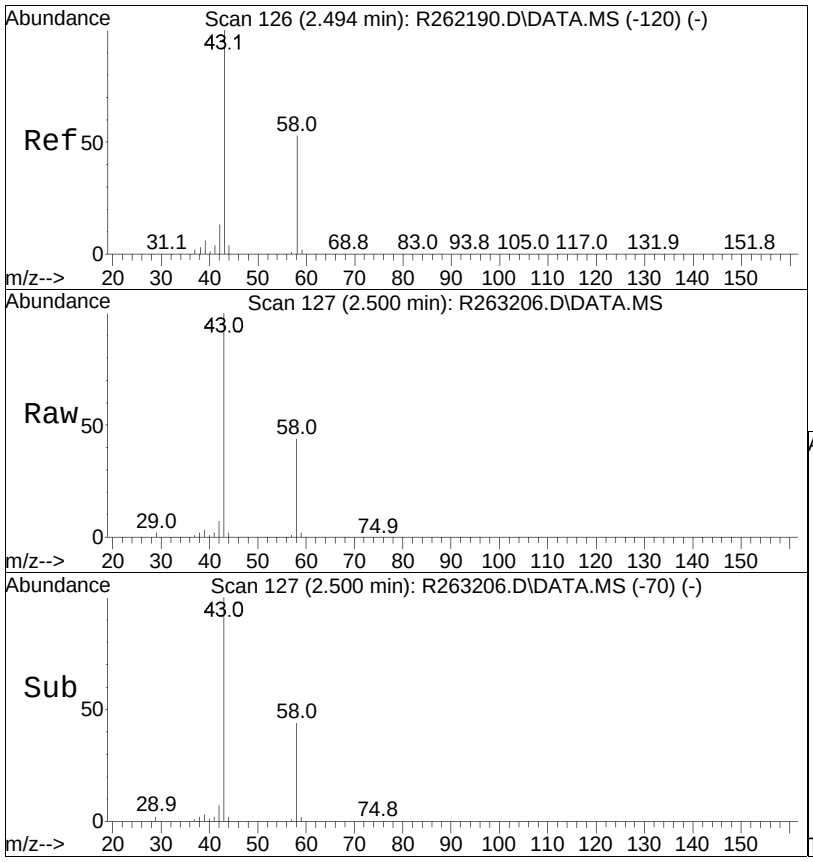
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Acetone+Toluene+IPA - \2025\04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263206.D
Acq On : 23 Apr 2025 08:14 am
Operator : AIRLAB26:KJD
Sample : L2522632-02D,3,50,250
Misc : WG2057225,ICAL22173
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 09:36:21 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

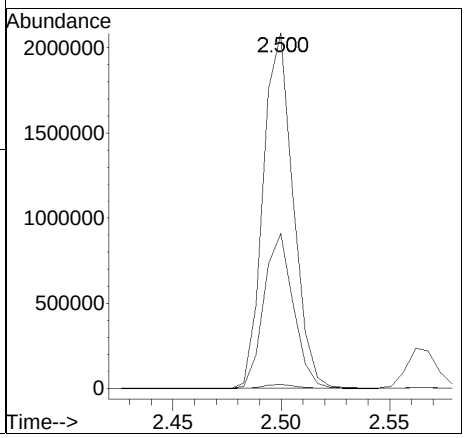


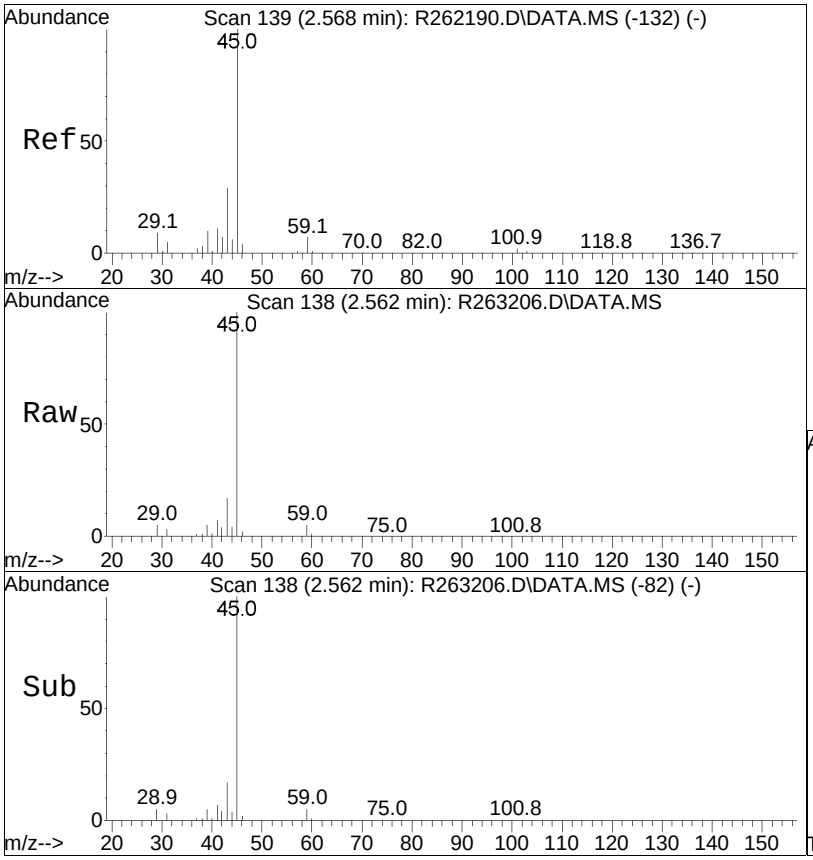


#19
acetone
Concen: 150.32 ppbV
RT: 2.500 min Scan# 127
Delta R.T. -0.000 min
Lab File: R263206.D
Acq: 23 Apr 2025 08:14 am

Tgt Ion: 43 Resp: 2007444

Ion	Ratio	Lower	Upper
43	100		
58	43.6	32.9	49.3
57	1.1	1.0	1.4

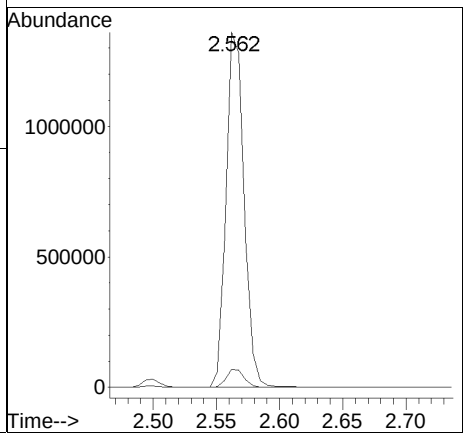


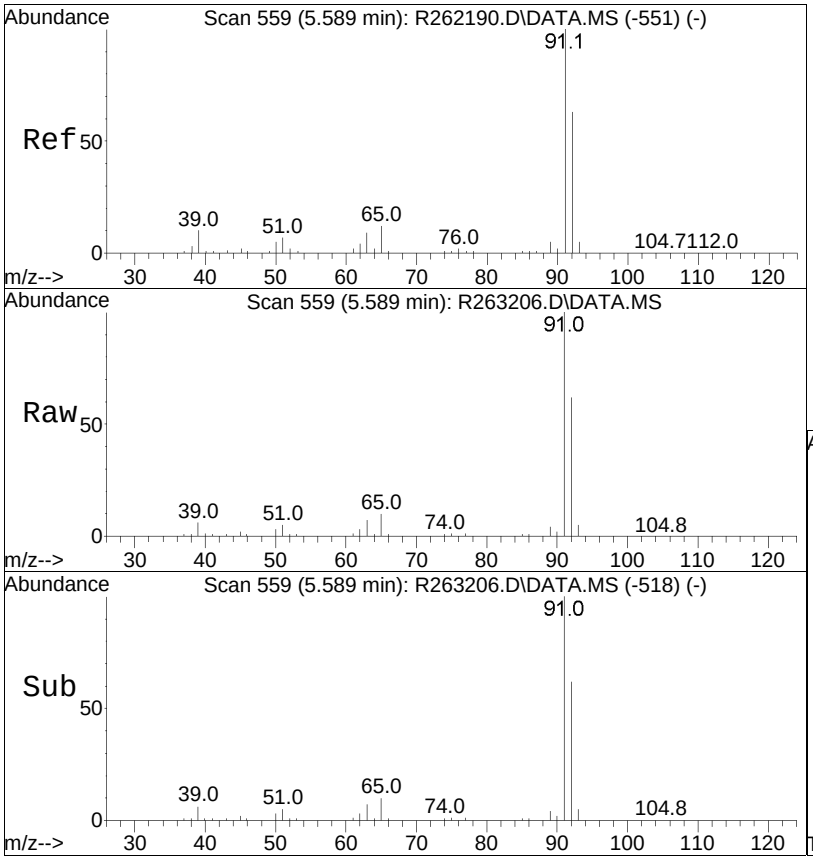


#22
isopropyl alcohol
Concen: 84.88 ppbV
RT: 2.562 min Scan# 138
Delta R.T. -0.006 min
Lab File: R263206.D
Acq: 23 Apr 2025 08:14 am

Tgt Ion: 45 Resp: 1352806

Ion	Ratio	Lower	Upper
45	100		
59	5.1	4.4	6.6

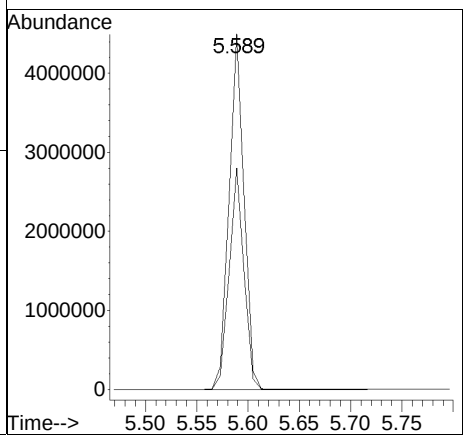




#68
toluene
Concen: 78.84 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R263206.D
Acq: 23 Apr 2025 08:14 am

Tgt Ion: 91 Resp: 4561294

Ion	Ratio	Lower	Upper
91	100		
92	62.3	47.9	71.9



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TFS26_250402.M
Data File	: R263206.D	Operator	: AIRLAB26:KJD
Date Inj'd	: 4/23/2025 8:14 am	Instrument	: Airlab26
Sample	: L2522632-02D,3,50,250	Quant Date	: 4/23/2025 9:36 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	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22173**
Calibration dates	**: 04/03/25 02:36 04/03/25 06:40**		

Calibration Files

0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D

50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.325	0.408	0.460	0.404	0.452	0.493	0.333	0.223	0.387	22.99
3)		propylene		0.704	0.675	0.558	0.552	0.524	0.522	0.494	0.576	14.08
4)		propane		0.544	0.393	0.331	0.313	0.303	0.299	0.281	0.352	26.10
5)		dichlorodifluoromethane	2.497	2.484	2.416	2.063	2.076	1.947	1.962	1.857	2.163	12.07
6)	C	chloromethane	0.733	0.780	0.729	0.596	0.601	0.563	0.578	0.545	0.641	14.25
7)		Freon-114	2.554	2.611	2.532	2.170	2.163	2.063	2.044	1.867	2.250	12.35
8)	C	methanol			0.178	0.131	0.134	0.132	0.121	0.112	0.135	16.81
9)	C	vinyl chloride	0.905	0.904	0.921	0.763	0.758	0.733	0.736	0.707	0.803	11.21
10)	C	1,3-butadiene	0.763	0.716	0.646	0.524	0.518	0.495	0.502	0.479	0.580	19.21
11)		butane	1.150	1.068	1.076	0.877	0.868	0.843	0.829	0.787	0.937	14.74
12)	C	acetaldehyde		0.367	0.330	0.258	0.256	0.245	0.236	0.215	0.272	20.22
13)	C	bromomethane	0.938	0.915	0.923	0.803	0.800	0.771	0.778	0.734	0.833	9.57
14)	C	chloroethane	0.625	0.511	0.538	0.418	0.424	0.410	0.414	0.395	0.467	17.61
15)		ethanol			0.443	0.334	0.319	0.324	0.311	0.283	0.336	16.43
16)		dichlorofluoromethane	2.335	2.325	2.224	1.793	1.776	1.713	1.716	1.572	1.932	16.01
17)	C	vinyl bromide	0.937	1.127	0.956	0.817	0.812	0.793	0.888	0.840	0.896	12.37
18)	C	acrolein		0.404	0.372	0.317	0.331	0.311	0.323	0.304	0.338	10.86
19)		acetone	1.009	0.993	0.938	0.781	0.778	0.743	0.718	0.632	0.824	16.82
20)	C	acetonitrile	0.665	0.656	0.700	0.571	0.510	0.480	0.549	0.516	0.581	14.19
21)		trichlorofluoromethane	2.144	2.329	2.270	1.874	1.905	1.822	1.807	1.670	1.978	12.10
22)		isopropyl alcohol	1.256	1.216	1.068	0.901	0.843	0.902	0.884	0.796	0.983	17.79
23)	C	acrylonitrile	0.719	0.713	0.638	0.534	0.592	0.574	0.564	0.539	0.609	12.05
24)		pentane	1.211	1.274	1.190	0.980	1.122	1.077	0.928	0.844	1.078	13.90
25)		ethyl ether	0.540	0.667	0.611	0.516	0.490	0.465	0.463	0.410	0.520	16.22
26)	C	1,1-dichloroethene	1.182	1.203	1.218	1.236	1.209	1.165	1.159	1.097	1.183	3.70
27)		tertiary butyl alcohol		1.743	1.553	1.443	1.298	1.463	1.462	1.331	1.471	10.05
28)	C	methylene chloride		0.827	0.802	0.656	0.646	0.625	0.626	0.583	0.681	13.88
29)	C	3-chloropropene	0.909	0.814	0.790	0.661	0.667	0.630	0.629	0.592	0.711	15.77
30)	C	carbon disulfide	2.331	2.413	2.382	2.039	2.041	1.945	1.919	1.730	2.100	11.82
31)		Freon 113	1.902	1.930	1.945	1.636	1.662	1.582	1.561	1.412	1.704	11.64
32)		trans-1,2-dichloroethene	1.029	1.127	1.101	0.947	0.958	0.922	0.931	0.864	0.985	9.35
33)	C	1,1-dichloroethane	1.510	1.571	1.496	1.275	1.285	1.236	1.232	1.137	1.343	11.87
34)	C	MTBE	2.356	2.311	2.356	2.027	2.015	1.959	1.947	1.794	2.095	10.29
35)	C	vinyl acetate			1.615	1.285	1.320	1.330	1.376	1.285	1.369	9.16
36)	C	2-butanone		1.400	1.446	1.399	1.251	1.203	1.447	1.348	1.357	7.03

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22173**
Calibration dates	**: 04/03/25 02:36 04/03/25 06:40**		

Calibration Files

0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D

50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	1.189	1.324	1.249	1.075	1.092	1.051	1.066	0.993	1.130	9.95
38)		Ethyl Acetate		0.299	0.344	0.306	0.319	0.278	0.305	0.259	0.301	9.11
39)	C	chloroform	1.984	2.074	2.099	1.747	1.772	1.691	1.683	1.556	1.826	10.99
40)		Tetrahydrofuran		0.710	0.850	0.599	0.616	0.601	0.636	0.600	0.659	14.08
41)		2,2-dichloropropane	1.769	1.749	1.699	1.435	1.475	1.422	1.420	1.329	1.537	11.25
42)	C	1,2-dichloroethane	1.198	1.239	1.195	1.018	1.026	0.993	1.001	0.938	1.076	10.70
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.355	0.348	0.345	0.267	0.274	0.264	0.257	0.247	0.295	15.68
45)		diisopropyl ether	0.235	0.255	0.259	0.225	0.230	0.228	0.221	0.214	0.233	6.79
46)		tert-butyl ethyl ether	0.730	0.810	0.744	0.565	0.566	0.579	0.521	0.532	0.631	17.78
47)	s	1,2-dichloroethane-D4	0.229	0.232	0.229	0.227	0.234	0.228	0.228	0.261	0.234	4.85
48)	C	1,1,1-trichloroethane	0.444	0.495	0.481	0.407	0.427	0.421	0.414	0.456	0.443	7.20
49)		1,1-dichloropropene	0.365	0.373	0.362	0.310	0.369	0.365	0.351	0.347	0.355	5.68
50)	C	benzene	0.747	0.757	0.778	0.645	0.663	0.645	0.639	0.604	0.685	9.56
51)		thiophene	0.550	0.579	0.590	0.636	0.657	0.497	0.487	0.473	0.559	12.37
52)	C	carbon tetrachloride	0.501	0.490	0.512	0.417	0.443	0.441	0.429	0.412	0.456	8.67
53)		cyclohexane	0.336	0.327	0.324	0.275	0.280	0.271	0.270	0.262	0.293	10.33
54)		tert-amyl methyl ether	0.655	0.675	0.673	0.599	0.606	0.602	0.595	0.568	0.622	6.43
55)		dibromomethane	0.267	0.287	0.296	0.251	0.255	0.250	0.248	0.243	0.262	7.46
56)	C	1,2-dichloropropane	0.231	0.256	0.262	0.219	0.219	0.217	0.216	0.208	0.229	8.68
57)		bromodichloromethane	0.497	0.478	0.478	0.411	0.440	0.430	0.422	0.407	0.445	7.68
58)	C	1,4-dioxane	0.148	0.163	0.162	0.144	0.143	0.148	0.149	0.147	0.150	5.19
59)	C	trichloroethene	0.359	0.399	0.405	0.336	0.344	0.341	0.330	0.324	0.355	8.73
60)	C	2,2,4-trimethylpentane	1.007	1.036	1.017	0.865	0.857	0.836	0.803	0.754	0.897	12.04
61)		methyl methacrylate		0.254	0.247	0.198	0.212	0.205	0.205	0.201	0.217	10.73
62)		heptane	0.365	0.321	0.303	0.262	0.270	0.263	0.257	0.249	0.286	14.02
63)	C	cis-1,3-dichloropropene	0.352	0.384	0.391	0.354	0.362	0.359	0.353	0.349	0.363	4.39
64)	C	4-methyl-2-pentanone		0.390	0.404	0.347	0.359	0.340	0.336	0.327	0.357	8.07
65)		trans-1,3-dichloropropene	0.273	0.308	0.314	0.272	0.289	0.286	0.291	0.282	0.289	5.20
66)	C	1,1,2-trichloroethane	0.293	0.321	0.323	0.285	0.299	0.289	0.285	0.274	0.296	5.86
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	8.299	8.084	8.038	6.778	7.072	6.833	6.656	6.218	7.247	10.77
69)	s	toluene-D8	6.942	6.960	6.925	6.741	6.972	6.868	6.934	6.706	6.881	1.49
70)		2-methylthiophene	7.067	7.322	7.455	8.225	8.520	6.175	6.013	5.583	7.045	14.96
71)		1,3-dichloropropane	3.429	3.785	3.550	3.047	3.120	3.072	3.009	2.848	3.233	9.89
72)		2-hexanone	3.002	3.100	3.075	2.661	2.861	2.753	2.729	2.623	2.851	6.60

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22173**
Calibration dates	**: 04/03/25 02:36 04/03/25 06:40**		

Calibration Files
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50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	6.914	7.772	7.877	8.774	9.046	6.643	6.425	5.990	7.430	15.01
74)		dibromochloromethane	3.904	4.434	4.420	3.888	4.161	4.111	4.103	3.890	4.114	5.38
75)	C	1,2-dibromoethane	3.698	4.244	4.353	3.617	3.808	3.739	3.690	3.530	3.835	7.80
76)		butyl acetate		0.930	0.926	0.807	0.870	0.828	0.849	0.827	0.862	5.66
77)		octane	2.650	2.744	2.738	2.164	2.304	2.164	2.155	2.041	2.370	12.33
78)	C	tetrachloroethene	4.213	4.319	4.218	3.663	3.626	3.620	3.540	3.331	3.816	9.81
79)		1,1,1,2-tetrachloroethane	3.264	3.293	3.317	2.861	3.040	2.988	2.950	2.784	3.062	6.71
80)	C	chlorobenzene	6.519	6.738	6.673	5.668	5.896	5.676	5.580	5.187	5.992	9.63
81)	C	ethylbenzene	1.053	1.040	1.031	0.885	0.914	0.880	0.855	0.770	0.928	11.03
82)		2-ethylthiophene	0.824	0.863	0.860	0.997	1.024	0.744	0.720	0.647	0.835	15.69
83)	C	m+p-xylene	8.153	8.461	8.353	6.907	7.170	6.838	6.498	5.664	7.256	13.66
84)	C	bromoform	3.846	4.209	4.276	3.869	4.173	4.095	4.080	3.800	4.043	4.49
85)	C	styrene	5.664	6.540	6.345	5.503	5.838	5.671	5.561	5.261	5.798	7.48
86)	C	1,1,2,2-tetrachloroethane	5.735	5.710	5.826	4.997	5.121	4.956	4.878	4.500	5.215	9.28
87)	C	o-xylene	7.973	8.000	8.075	6.819	6.922	6.728	6.613	6.019	7.144	10.79
88)		1,2,3-trichloropropane	4.008	4.218	4.057	3.481	3.656	3.538	3.545	3.430	3.742	8.14
89)		nonane	3.769	3.918	3.835	3.202	3.436	3.273	3.237	3.014	3.460	9.75
90)	s	bromofluorobenzene	4.016	4.092	4.144	4.070	4.179	4.110	4.188	4.107	4.113	1.38
91)	C	isopropylbenzene	1.141	1.163	1.157	0.963	1.016	0.988	0.937	0.818	1.023	12.00
92)		bromobenzene	4.368	4.406	5.257	4.524	5.977	4.515	4.652	3.955	4.707	13.34
93)		2-chlorotoluene	3.010	3.080	3.164	2.668	2.801	2.718	2.719	2.571	2.841	7.57
94)		n-propylbenzene	3.297	3.376	3.517	2.898	3.027	2.933	2.865	2.671	3.073	9.50
95)		4-chlorotoluene	2.872	3.188	3.135	2.757	2.822	2.732	2.707	2.521	2.842	7.85
96)		4-ethyl toluene	1.051	1.095	1.125	0.976	1.012	0.977	0.937	0.838	1.001	9.13
97)		1,3,5-trimethylbenzene	9.258	9.728	9.554	8.210	8.553	8.195	7.967	7.159	8.578	10.25
98)		tert-butylbenzene	1.061	1.118	1.105	0.931	0.957	0.915	0.885	0.786	0.970	11.98
99)		1,2,4-trimethylbenzene	9.465	9.775	9.979	8.399	8.695	8.344	8.035	7.245	8.742	10.71
100)		decane	5.360	5.466	5.328	4.464	4.604	4.480	4.308	3.879	4.736	12.23
101)	C	Benzyl Chloride	6.455	6.920	7.034	6.516	7.192	7.230	7.527	6.824	6.962	5.22
102)		1,3-dichlorobenzene	6.483	7.054	7.245	6.134	6.403	6.274	6.070	5.638	6.413	8.17
103)	C	1,4-dichlorobenzene	6.578	7.283	7.323	6.230	6.394	6.077	6.205	5.713	6.475	8.78
104)		sec-butylbenzene	1.344	1.486	1.488	1.249	1.274	1.227	1.159	0.920	1.269	14.49
105)		1,2,3-trimethylbenzene	1.039	1.066	1.060	0.900	0.929	0.901	0.885	0.817	0.950	9.80
106)		p-isopropyltoluene	1.173	1.312	1.258	1.034	1.065	1.021	1.014	0.911	1.099	12.41
107)		1,2-dichlorobenzene	6.241	7.128	6.932	5.939	6.289	5.992	6.095	5.727	6.293	7.79
108)		n-butylbenzene	1.104	1.135	1.122	0.967	1.010	0.968	0.934	0.801	1.005	11.27

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22173**
Calibration dates	**: 04/03/25 02:36 04/03/25 06:40**		

Calibration Files
0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D
50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	8.774	9.349	9.281	7.209	7.551	7.943	7.835	7.151	8.137	10.88
110)		indene	6.606	7.119	7.257	5.935	6.143	6.472	6.520	6.167	6.527	7.14
111)	C	1,2-dibromo-3-chloropr...	2.293	2.590	2.549	2.343	2.557	2.535	2.552	2.546	2.495	4.48
112)		undecane	6.826	6.613	6.366	5.546	5.857	5.604	5.523	5.179	5.939	9.96
113)		1,2,4,5-tetramethylben...	5.482	5.372	4.995	5.623	6.125	4.658	4.784	4.777	5.227	9.77
114)		dodecane	5.870	5.871	6.400	6.802	7.299	6.871	6.572	5.675	6.420	8.94
115)	C	1,2,4-trichlorobenzene	5.321	6.038	6.645	5.881	6.268	6.134	6.351	6.134	6.097	6.35
116)		naphthalene	1.232	1.406	1.713	1.341	1.464	1.399	1.375	0.977	1.363	15.25
117)		1,2,3-trichlorobenzene	4.366	5.479	6.015	6.669	6.694	6.347	6.312	6.082	5.995	12.76
118)		benzothiophene	4.826	6.112	7.261	7.263	8.199	6.270	6.625	6.408	6.620	15.06
119)	C	hexachlorobutadiene	4.405	5.731	5.914	4.942	5.022	4.855	4.903	4.678	5.056	10.13
120)		2-methylnaphthalene			1.416	1.332	1.583	1.174	1.438	1.519	1.411	10.24
121)		1-methylnaphthalene			1.850	1.758	1.975	1.416	1.547	1.382	1.655	14.67

Response Factor Report Airlab26

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Method File : TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D
50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoro...	0.325	0.408	0.460	0.404	0.452	0.493	0.333	0.223	0.387	22.99
3)		propylene		0.704	0.675	0.558	0.552	0.524	0.522	0.494	0.576	14.08
4)		propane		0.544	0.393	0.331	0.313	0.303	0.299	0.281	0.352	26.10
5)		dichlorodifluo...	2.497	2.484	2.416	2.063	2.076	1.947	1.962	1.857	2.163	12.07
6)	C	chloromethane	0.733	0.780	0.729	0.596	0.601	0.563	0.578	0.545	0.641	14.25
7)		Freon-114	2.554	2.611	2.532	2.170	2.163	2.063	2.044	1.867	2.250	12.35
8)	C	methanol			0.178	0.131	0.134	0.132	0.121	0.112	0.135	16.81
9)	C	vinyl chloride	0.905	0.904	0.921	0.763	0.758	0.733	0.736	0.707	0.803	11.21
10)	C	1,3-butadiene	0.763	0.716	0.646	0.524	0.518	0.495	0.502	0.479	0.580	19.21
11)		butane	1.150	1.068	1.076	0.877	0.868	0.843	0.829	0.787	0.937	14.74
12)	C	acetaldehyde		0.367	0.330	0.258	0.256	0.245	0.236	0.215	0.272	20.22
13)	C	bromomethane	0.938	0.915	0.923	0.803	0.800	0.771	0.778	0.734	0.833	9.57
14)	C	chloroethane	0.625	0.511	0.538	0.418	0.424	0.410	0.414	0.395	0.467	17.61
15)		ethanol			0.443	0.334	0.319	0.324	0.311	0.283	0.336	16.43
16)		dichlorofluoro...	2.335	2.325	2.224	1.793	1.776	1.713	1.716	1.572	1.932	16.01
17)	C	vinyl bromide	0.937	1.127	0.956	0.817	0.812	0.793	0.888	0.840	0.896	12.37
18)	C	acrolein		0.404	0.372	0.317	0.331	0.311	0.323	0.304	0.338	10.86
19)		acetone	1.009	0.993	0.938	0.781	0.778	0.743	0.718	0.632	0.824	16.82
20)	C	acetonitrile	0.665	0.656	0.700	0.571	0.510	0.480	0.549	0.516	0.581	14.19
21)		trichlorofluor...	2.144	2.329	2.270	1.874	1.905	1.822	1.807	1.670	1.978	12.10
22)		isopropyl alcohol	1.256	1.216	1.068	0.901	0.843	0.902	0.884	0.796	0.983	17.79
23)	C	acrylonitrile	0.719	0.713	0.638	0.534	0.592	0.574	0.564	0.539	0.609	12.05
24)		pentane	1.211	1.274	1.190	0.980	1.122	1.077	0.928	0.844	1.078	13.90
25)		ethyl ether	0.540	0.667	0.611	0.516	0.490	0.465	0.463	0.410	0.520	16.22
26)	C	1,1-dichloroet...	1.182	1.203	1.218	1.236	1.209	1.165	1.159	1.097	1.183	3.70
27)		tertiary butyl...		1.743	1.553	1.443	1.298	1.463	1.462	1.331	1.471	10.05
28)	C	methylene chlo...		0.827	0.802	0.656	0.646	0.625	0.626	0.583	0.681	13.88
29)	C	3-chloropropene	0.909	0.814	0.790	0.661	0.667	0.630	0.629	0.592	0.711	15.77
30)	C	carbon disulfide	2.331	2.413	2.382	2.039	2.041	1.945	1.919	1.730	2.100	11.82
31)		Freon 113	1.902	1.930	1.945	1.636	1.662	1.582	1.561	1.412	1.704	11.64

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Method File : TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D
50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dich...	1.029	1.127	1.101	0.947	0.958	0.922	0.931	0.864	0.985	9.35
33)	C	1,1-dichloroet...	1.510	1.571	1.496	1.275	1.285	1.236	1.232	1.137	1.343	11.87
34)	C	MTBE	2.356	2.311	2.356	2.027	2.015	1.959	1.947	1.794	2.095	10.29
35)	C	vinyl acetate			1.615	1.285	1.320	1.330	1.376	1.285	1.369	9.16
36)	C	2-butanone			1.400	1.446	1.399	1.251	1.203	1.447	1.348	1.357	7.03
37)		cis-1,2-dichlo...	1.189	1.324	1.249	1.075	1.092	1.051	1.066	0.993	1.130	9.95
38)		Ethyl Acetate			0.299	0.344	0.306	0.319	0.278	0.305	0.259	0.301	9.11
39)	C	chloroform	1.984	2.074	2.099	1.747	1.772	1.691	1.683	1.556	1.826	10.99
40)		Tetrahydrofuran			0.710	0.850	0.599	0.616	0.601	0.636	0.600	0.659	14.08
41)		2,2-dichloropr...	1.769	1.749	1.699	1.435	1.475	1.422	1.420	1.329	1.537	11.25
42)	C	1,2-dichloroet...	1.198	1.239	1.195	1.018	1.026	0.993	1.001	0.938	1.076	10.70
43)	I	1,4-difluorobenzene	ISTD									
44)	C	hexane	0.355	0.348	0.345	0.267	0.274	0.264	0.257	0.247	0.295	15.68
45)		diisopropyl ether	0.235	0.255	0.259	0.225	0.230	0.228	0.221	0.214	0.233	6.79
46)		tert-butyl eth...	0.730	0.810	0.744	0.565	0.566	0.579	0.521	0.532	0.631	17.78
47)	s	1,2-dichloroet...	0.229	0.232	0.229	0.227	0.234	0.228	0.228	0.261	0.234	4.85
48)	C	1,1,1-trichlor...	0.444	0.495	0.481	0.407	0.427	0.421	0.414	0.456	0.443	7.20
49)		1,1-dichloropr...	0.365	0.373	0.362	0.310	0.369	0.365	0.351	0.347	0.355	5.68
50)	C	benzene	0.747	0.757	0.778	0.645	0.663	0.645	0.639	0.604	0.685	9.56
51)		thiophene	0.550	0.579	0.590	0.636	0.657	0.497	0.487	0.473	0.559	12.37
52)	C	carbon tetrach...	0.501	0.490	0.512	0.417	0.443	0.441	0.429	0.412	0.456	8.67
53)		cyclohexane	0.336	0.327	0.324	0.275	0.280	0.271	0.270	0.262	0.293	10.33
54)		tert-amyl meth...	0.655	0.675	0.673	0.599	0.606	0.602	0.595	0.568	0.622	6.43
55)		dibromomethane	0.267	0.287	0.296	0.251	0.255	0.250	0.248	0.243	0.262	7.46
56)	C	1,2-dichloropr...	0.231	0.256	0.262	0.219	0.219	0.217	0.216	0.208	0.229	8.68
57)		bromodichlorom...	0.497	0.478	0.478	0.411	0.440	0.430	0.422	0.407	0.445	7.68
58)	C	1,4-dioxane	0.148	0.163	0.162	0.144	0.143	0.148	0.149	0.147	0.150	5.19
59)	C	trichloroethene	0.359	0.399	0.405	0.336	0.344	0.341	0.330	0.324	0.355	8.73
60)	C	2,2,4-trimethy...	1.007	1.036	1.017	0.865	0.857	0.836	0.803	0.754	0.897	12.04
61)		methyl methacr...			0.254	0.247	0.198	0.212	0.205	0.205	0.201	0.217	10.73
62)		heptane	0.365	0.321	0.303	0.262	0.270	0.263	0.257	0.249	0.286	14.02

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Method File : TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D
50 =R262663.D 100 =R262664.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichlo...	0.352	0.384	0.391	0.354	0.362	0.359	0.353	0.349	0.363	4.39
64)	C	4-methyl-2-pen...		0.390	0.404	0.347	0.359	0.340	0.336	0.327	0.357	8.07
65)		trans-1,3-dich...	0.273	0.308	0.314	0.272	0.289	0.286	0.291	0.282	0.289	5.20
66)	C	1,1,2-trichlor...	0.293	0.321	0.323	0.285	0.299	0.289	0.285	0.274	0.296	5.86
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	8.299	8.084	8.038	6.778	7.072	6.833	6.656	6.218	7.247	10.77
69)	s	toluene-D8	6.942	6.960	6.925	6.741	6.972	6.868	6.934	6.706	6.881	1.49
70)		2-methylthiophene	7.067	7.322	7.455	8.225	8.520	6.175	6.013	5.583	7.045	14.96
71)		1,3-dichloropr...	3.429	3.785	3.550	3.047	3.120	3.072	3.009	2.848	3.233	9.89
72)		2-hexanone	3.002	3.100	3.075	2.661	2.861	2.753	2.729	2.623	2.851	6.60
73)		3-methylthiophene	6.914	7.772	7.877	8.774	9.046	6.643	6.425	5.990	7.430	15.01
74)		dibromochlorom...	3.904	4.434	4.420	3.888	4.161	4.111	4.103	3.890	4.114	5.38
75)	C	1,2-dibromoethane	3.698	4.244	4.353	3.617	3.808	3.739	3.690	3.530	3.835	7.80
76)		butyl acetate		0.930	0.926	0.807	0.870	0.828	0.849	0.827	0.862	5.66
77)		octane	2.650	2.744	2.738	2.164	2.304	2.164	2.155	2.041	2.370	12.33
78)	C	tetrachloroethene	4.213	4.319	4.218	3.663	3.626	3.620	3.540	3.331	3.816	9.81
79)		1,1,1,2-tetrac...	3.264	3.293	3.317	2.861	3.040	2.988	2.950	2.784	3.062	6.71
80)	C	chlorobenzene	6.519	6.738	6.673	5.668	5.896	5.676	5.580	5.187	5.992	9.63
81)	C	ethylbenzene	1.053	1.040	1.031	0.885	0.914	0.880	0.855	0.770	0.928	11.03
82)		2-ethylthiophene	0.824	0.863	0.860	0.997	1.024	0.744	0.720	0.647	0.835	15.69
83)	C	m+p-xylene	8.153	8.461	8.353	6.907	7.170	6.838	6.498	5.664	7.256	13.66
84)	C	bromoform	3.846	4.209	4.276	3.869	4.173	4.095	4.080	3.800	4.043	4.49
85)	C	styrene	5.664	6.540	6.345	5.503	5.838	5.671	5.561	5.261	5.798	7.48
86)	C	1,1,2,2-tetrac...	5.735	5.710	5.826	4.997	5.121	4.956	4.878	4.500	5.215	9.28
87)	C	o-xylene	7.973	8.000	8.075	6.819	6.922	6.728	6.613	6.019	7.144	10.79
88)		1,2,3-trichlor...	4.008	4.218	4.057	3.481	3.656	3.538	3.545	3.430	3.742	8.14
89)		nonane	3.769	3.918	3.835	3.202	3.436	3.273	3.237	3.014	3.460	9.75
90)	s	bromofluoroben...	4.016	4.092	4.144	4.070	4.179	4.110	4.188	4.107	4.113	1.38
91)	C	isopropylbenzene	1.141	1.163	1.157	0.963	1.016	0.988	0.937	0.818	1.023	12.00
92)		bromobenzene	4.368	4.406	5.257	4.524	5.977	4.515	4.652	3.955	4.707	13.34
93)		2-chlorotoluene	3.010	3.080	3.164	2.668	2.801	2.718	2.719	2.571	2.841	7.57

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Method File : TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 2025
Response Via : Initial Calibration

Calibration Files
0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D 5.0 =R262660.D 10 =R262661.D 20 =R262662.D
50 =R262663.D 100 =R262664.D

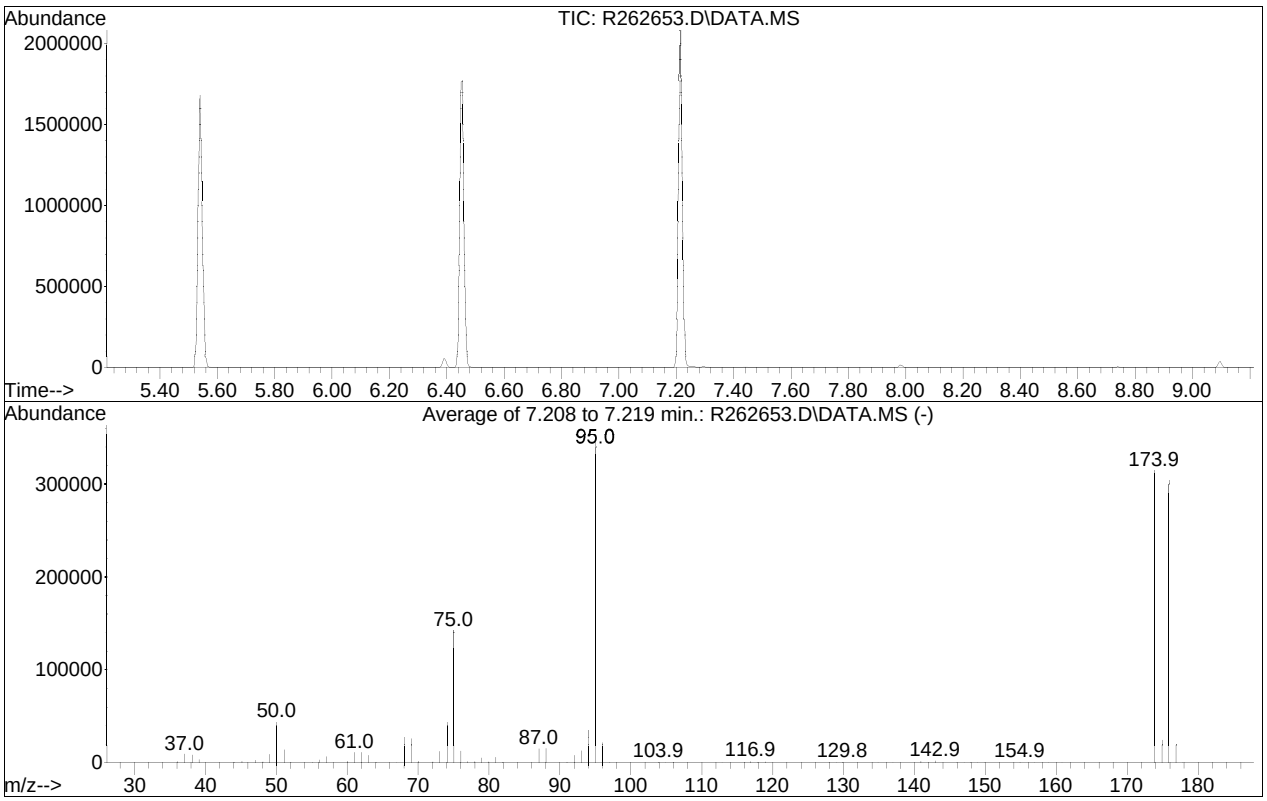
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	3.297	3.376	3.517	2.898	3.027	2.933	2.865	2.671	3.073	9.50
95)		4-chlorotoluene	2.872	3.188	3.135	2.757	2.822	2.732	2.707	2.521	2.842	7.85
96)		4-ethyl toluene	1.051	1.095	1.125	0.976	1.012	0.977	0.937	0.838	1.001	9.13
97)		1,3,5-trimethy...	9.258	9.728	9.554	8.210	8.553	8.195	7.967	7.159	8.578	10.25
98)		tert-butylbenzene	1.061	1.118	1.105	0.931	0.957	0.915	0.885	0.786	0.970	11.98
99)		1,2,4-trimethy...	9.465	9.775	9.979	8.399	8.695	8.344	8.035	7.245	8.742	10.71
100)		decane	5.360	5.466	5.328	4.464	4.604	4.480	4.308	3.879	4.736	12.23
101)	C	Benzyl Chloride	6.455	6.920	7.034	6.516	7.192	7.230	7.527	6.824	6.962	5.22
102)		1,3-dichlorobe...	6.483	7.054	7.245	6.134	6.403	6.274	6.070	5.638	6.413	8.17
103)	C	1,4-dichlorobe...	6.578	7.283	7.323	6.230	6.394	6.077	6.205	5.713	6.475	8.78
104)		sec-butylbenzene	1.344	1.486	1.488	1.249	1.274	1.227	1.159	0.920	1.269	14.49
105)		1,2,3-trimethy...	1.039	1.066	1.060	0.900	0.929	0.901	0.885	0.817	0.950	9.80
106)		p-isopropyltol...	1.173	1.312	1.258	1.034	1.065	1.021	1.014	0.911	1.099	12.41
107)		1,2-dichlorobe...	6.241	7.128	6.932	5.939	6.289	5.992	6.095	5.727	6.293	7.79
108)		n-butylbenzene	1.104	1.135	1.122	0.967	1.010	0.968	0.934	0.801	1.005	11.27
109)		indan	8.774	9.349	9.281	7.209	7.551	7.943	7.835	7.151	8.137	10.88
110)		indene	6.606	7.119	7.257	5.935	6.143	6.472	6.520	6.167	6.527	7.14
111)	C	1,2-dibromo-3-...	2.293	2.590	2.549	2.343	2.557	2.535	2.552	2.546	2.495	4.48
112)		undecane	6.826	6.613	6.366	5.546	5.857	5.604	5.523	5.179	5.939	9.96
113)		1,2,4,5-tetram...	5.482	5.372	4.995	5.623	6.125	4.658	4.784	4.777	5.227	9.77
114)		dodecane	5.870	5.871	6.400	6.802	7.299	6.871	6.572	5.675	6.420	8.94
115)	C	1,2,4-trichlor...	5.321	6.038	6.645	5.881	6.268	6.134	6.351	6.134	6.097	6.35
116)		naphthalene	1.232	1.406	1.713	1.341	1.464	1.399	1.375	0.977	1.363	15.25
117)		1,2,3-trichlor...	4.366	5.479	6.015	6.669	6.694	6.347	6.312	6.082	5.995	12.76
118)		benzothiophene	4.826	6.112	7.261	7.263	8.199	6.270	6.625	6.408	6.620	15.06
119)	C	hexachlorobuta...	4.405	5.731	5.914	4.942	5.022	4.855	4.903	4.678	5.056	10.13
120)		2-methylnaphth...			1.416	1.332	1.583	1.174	1.438	1.519	1.411	10.24
121)		1-methylnaphth...			1.850	1.758	1.975	1.416	1.547	1.382	1.655	14.67

(#) = Out of Range

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262653.D
Acq On : 03 Apr 2025 12:31 am
Operator : AIRLAB26:JJT
Sample : WG2049329-1,3,250,250
Misc : WG2049329
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 2025



Spectrum Information: Average of 7.208 to 7.219 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.6	43683	PASS
75	95	30	66	41.2	142696	PASS
95	95	100	100	100.0	345984	PASS
96	95	5	9	6.5	22371	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.0	314752	PASS
175	174	4	9	7.8	24675	PASS
176	174	93	101	96.4	303424	PASS
177	176	5	9	6.7	20341	PASS

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	204715	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 105.96%			
43) 1,4-difluorobenzene	4.365	114	885514	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 106.11%			
67) chlorobenzene-D5	6.449	54	104832	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 104.04%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	203085	9.794	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.94%			
69) toluene-D8	5.541	98	727714	9.956	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.56%			
90) bromofluorobenzene	7.214	95	421004	9.611	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.11%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.997	51	1329M6	0.144	ppbV	
3) propylene	2.008	41	3793	0.336	ppbV	88
4) propane	2.013	29	2317	0.361	ppbV #	89
5) dichlorodifluoromethane	2.030	85	10223	0.241	ppbV	90
6) chloromethane	2.079	50	3002	0.244	ppbV	95
7) Freon-114	2.112	85	10458	0.236	ppbV	98
8) methanol	2.129	31	4336M6	1.582	ppbV	
9) vinyl chloride	2.151	62	3704	0.239	ppbV #	88
10) 1,3-butadiene	2.189	54	3123	0.295	ppbV	95
11) butane	2.211	43	4710	0.265	ppbV #	81
12) acetaldehyde	2.118	29	8264M4	1.578	ppbV	
13) bromomethane	2.277	94	3840	0.234	ppbV #	75
14) chloroethane	2.332	64	2558	0.294	ppbV #	85
15) ethanol	2.365	31	12944	1.982	ppbV	100
16) dichlorofluoromethane	2.359	67	9561	0.263	ppbV	96
17) vinyl bromide	2.437	106	3838	0.231	ppbV	100
18) acrolein	2.471	56	1539M4	0.227	ppbV	
19) acetone	2.511	43	20656	1.297	ppbV #	96
20) acetonitrile	2.437	41	2721	0.261	ppbV	99
21) trichlorofluoromethane	2.556	101	8780	0.225	ppbV	99
22) isopropyl alcohol	2.573	45	12861	0.745	ppbV	99
23) acrylonitrile	2.630	53	2944	0.243	ppbV	91
24) pentane	2.653	43	4960	0.216	ppbV #	91

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.658	31	2212	0.220	ppbV	#	88
26) 1,1-dichloroethene	2.727	61	4838	0.196	ppbV		91
27) tertiary butyl alcohol	2.746	59	7587	0.286	ppbV	#	74
28) methylene chloride	2.760	49	3628	0.274	ppbV		92
29) 3-chloropropene	2.798	41	3722	0.272	ppbV		95
30) carbon disulfide	2.846	76	9542	0.228	ppbV	#	1
31) Freon 113	2.846	101	7788	0.229	ppbV		92
32) trans-1,2-dichloroethene	3.062	61	4213	0.215	ppbV		94
33) 1,1-dichloroethane	3.129	63	6181	0.235	ppbV		96
34) MTBE	3.164	73	9645	0.234	ppbV	#	91
35) vinyl acetate	3.195	43	7080	0.262	ppbV		97
36) 2-butanone	3.288	43	5871	0.229	ppbV		92
37) cis-1,2-dichloroethene	3.441	61	4867	0.218	ppbV		96
38) Ethyl Acetate	3.560	61	1303M6	0.200	ppbV		
39) chloroform	3.560	83	8123	0.224	ppbV		98
40) Tetrahydrofuran	3.747	42	2336M6	0.185	ppbV		
41) 2,2-dichloropropane	3.575	77	7243	0.240	ppbV		98
42) 1,2-dichloroethane	3.868	62	4906	0.234	ppbV	#	91
44) hexane	3.546	57	6292	0.259	ppbV	#	41
45) diisopropyl ether	3.553	87	4167	0.205	ppbV	#	98
46) tert-butyl ethyl ether	3.779	59	12923	0.258	ppbV		95
48) 1,1,1-trichloroethane	3.982	97	7861	0.208	ppbV		98
49) 1,1-dichloropropene	4.120	75	6459	0.198	ppbV	#	91
50) benzene	4.186	78	13229	0.225	ppbV	#	92
51) thiophene	4.233	84	9748	0.168	ppbV		91
52) carbon tetrachloride	4.252	117	8866	0.226	ppbV		93
53) cyclohexane	4.309	56	5945	0.240	ppbV		92
54) tert-amyl methyl ether	4.488	73	11592	0.216	ppbV		97
55) dibromomethane	4.544	93	4736	0.210	ppbV		97
56) 1,2-dichloropropane	4.563	63	4099M2	0.211	ppbV		
57) bromodichloromethane	4.658	83	8797	0.226	ppbV		92
58) 1,4-dioxane	4.714	88	2613M2	0.207	ppbV		
59) trichloroethene	4.686	130	6359	0.209	ppbV		97
60) 2,2,4-trimethylpentane	4.724	57	17842	0.235	ppbV		97
61) methyl methacrylate	4.818	41	4748	0.253	ppbV		90
62) heptane	4.865	43	6456	0.270	ppbV		94
63) cis-1,3-dichloropropene	5.110	75	6235	0.195	ppbV		98
64) 4-methyl-2-pentanone	5.158	43	7502	0.236	ppbV		96
65) trans-1,3-dichloropropene	5.381	75	4827	0.189	ppbV	#	89
66) 1,1,2-trichloroethane	5.453	97	5183	0.196	ppbV		91

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	17401	0.235	ppbV		96
70) 2-methylthiophene	5.613	97	14817	0.166	ppbV		88
71) 1,3-dichloropropane	5.605	76	7190	0.220	ppbV	#	87
72) 2-hexanone	5.772	43	6295	0.210	ppbV		97
73) 3-methylthiophene	5.701	97	14496	0.153	ppbV		98
74) dibromochloromethane	5.780	129	8185	0.188	ppbV		90
75) 1,2-dibromoethane	5.900	107	7753	0.194	ppbV		97
76) butyl acetate	6.108	73	1702	0.187	ppbV		89
77) octane	6.132	85	5557	0.230	ppbV		96
78) tetrachloroethene	6.148	166	8833	0.232	ppbV		98
79) 1,1,1,2-tetrachloroethane	6.471	131	6843	0.215	ppbV		88
80) chlorobenzene	6.471	112	13667	0.221	ppbV		96
81) ethylbenzene	6.673	91	22084	0.230	ppbV		96
82) 2-ethylthiophene	6.689	97	17268	0.161	ppbV	#	97
83) m+p-xylene	6.766	91	34188	0.455	ppbV		95
84) bromoform	6.766	173	8064	0.184	ppbV		96
85) styrene	6.940	104	11875	0.194	ppbV		97
86) 1,1,2,2-tetrachloroethane	6.987	83	12025	0.224	ppbV		98
87) o-xylene	6.992	91	16716	0.230	ppbV		97
88) 1,2,3-trichloropropane	7.051	75	8403	0.219	ppbV	#	97
89) nonane	7.155	43	7903	0.219	ppbV		97
91) isopropylbenzene	7.295	105	23915	0.224	ppbV		99
92) bromobenzene	7.307	77	9159M6	0.146	ppbV		
93) 2-chlorotoluene	7.523	126	6310	0.215	ppbV		94
94) n-propylbenzene	7.563	120	6913	0.218	ppbV		81
95) 4-chlorotoluene	7.563	126	6022	0.204	ppbV	#	48
96) 4-ethyl toluene	7.643	105	22038	0.208	ppbV	#	97
97) 1,3,5-trimethylbenzene	7.683	105	19410	0.216	ppbV		98
98) tert-butylbenzene	7.898	119	22240	0.222	ppbV		96
99) 1,2,4-trimethylbenzene	7.898	105	19845	0.218	ppbV	#	85
100) decane	8.002	57	11239	0.233	ppbV		95
101) Benzyl Chloride	7.962	91	13534	0.180	ppbV		95
102) 1,3-dichlorobenzene	7.962	146	13593	0.203	ppbV		94
103) 1,4-dichlorobenzene	8.002	146	13791	0.206	ppbV		96
104) sec-butylbenzene	8.050	105	28184	0.211	ppbV		93
105) 1,2,3-trimethylbenzene	8.130	105	21780	0.224	ppbV		93
106) p-isopropyltoluene	8.146	119	24588M6	0.191	ppbV		
107) 1,2-dichlorobenzene	8.186	146	13086	0.198	ppbV	#	92
108) n-butylbenzene	8.385	91	23146	0.219	ppbV		99
109) indan	8.226	117	18396	0.232	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

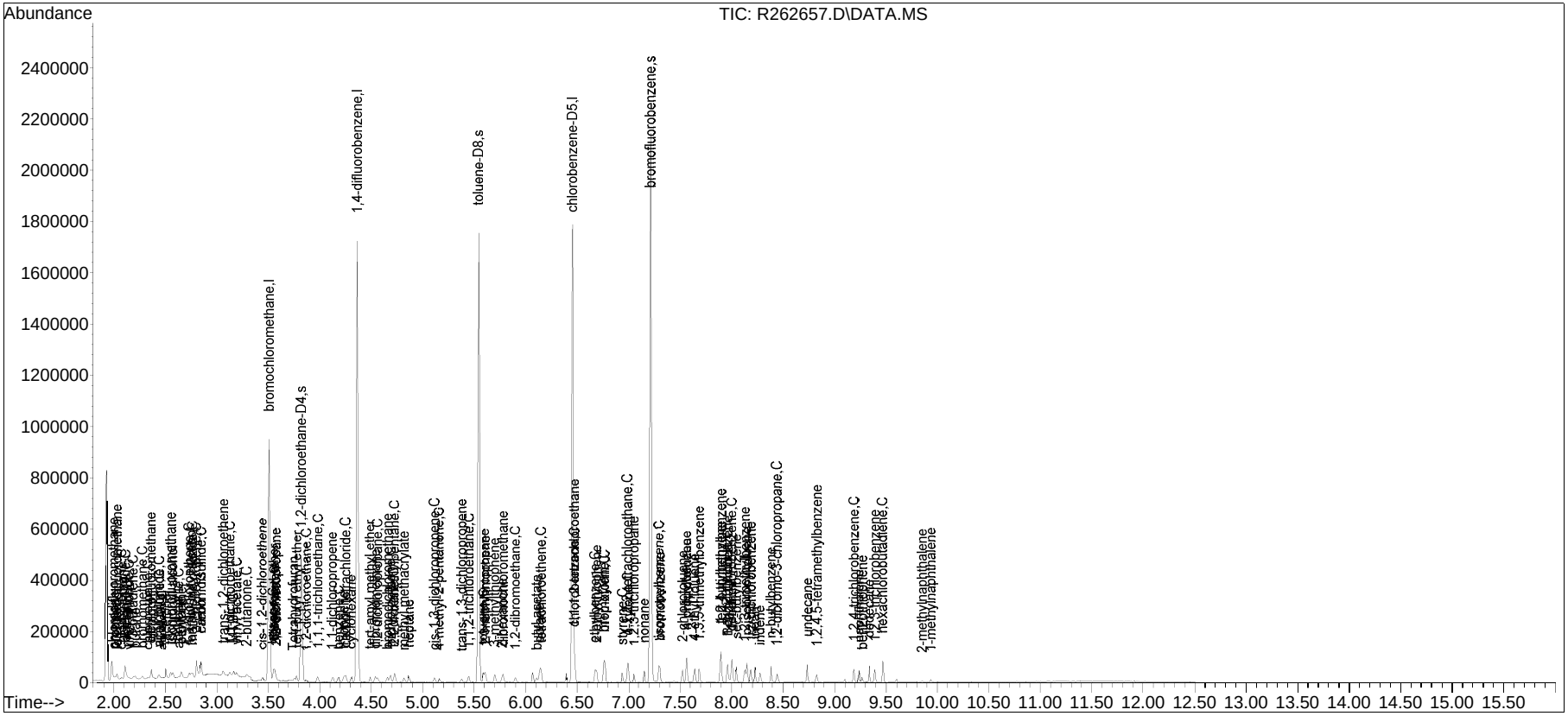
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	13851	0.215	ppbV	96
111) 1,2-dibromo-3-chloropr...	8.441	75	4807	0.179	ppbV	94
112) undecane	8.737	57	14312	0.233	ppbV #	93
113) 1,2,4,5-tetramethylben...	8.824	119	11494	0.179	ppbV	99
114) dodecane	9.341	57	12307	0.161	ppbV	99
115) 1,2,4-trichlorobenzene	9.189	180	11156	0.170	ppbV	99
116) naphthalene	9.242	128	25832	0.168	ppbV	98
117) 1,2,3-trichlorobenzene	9.394	180	9154	0.130	ppbV	93
118) benzothiophene	9.271	134	10119	0.118	ppbV	98
119) hexachlorobutadiene	9.464	225	9235	0.175	ppbV #	90
120) 2-methylnaphthalene	9.856	142	1919M3	0.116	ppbV	
121) 1-methylnaphthalene	9.937	142	3128	0.151	ppbV	97

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

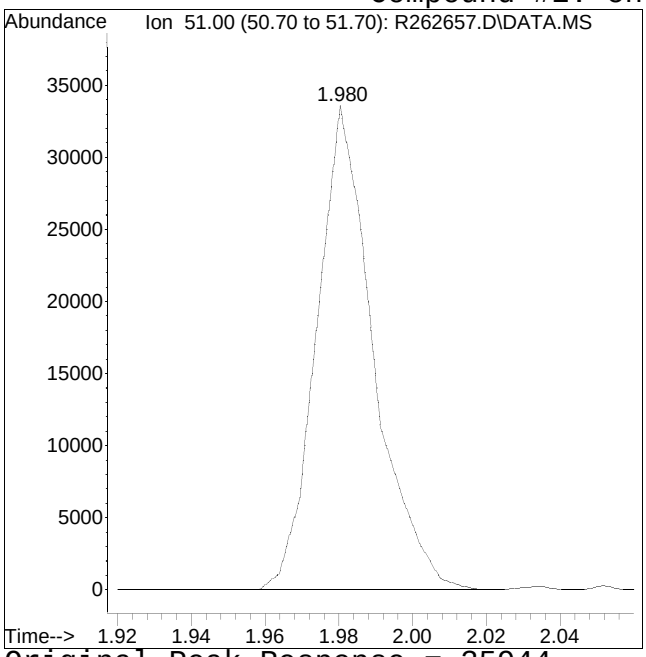
Quant Time: Apr 03 12:15:48 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



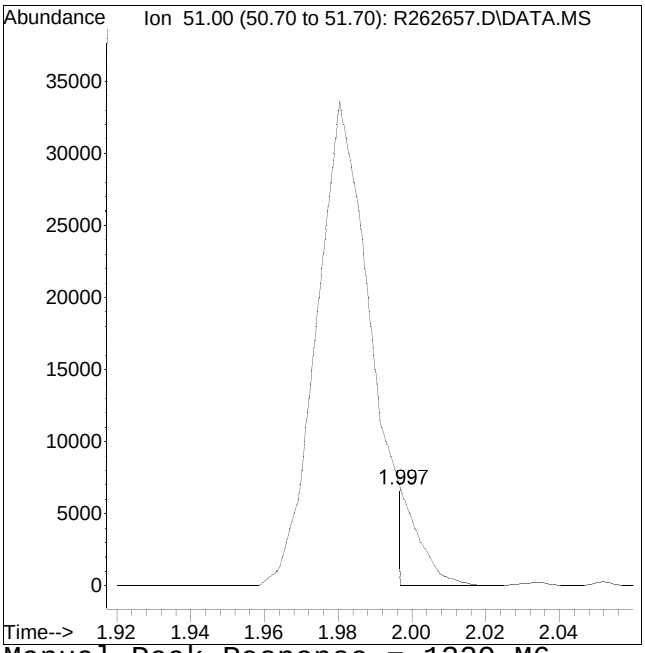
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 35944



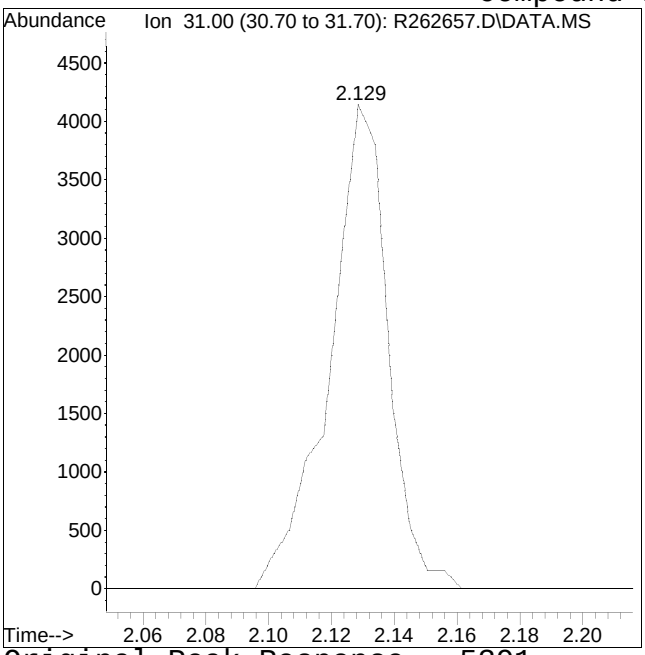
Manual Peak Response = 1329 M6

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

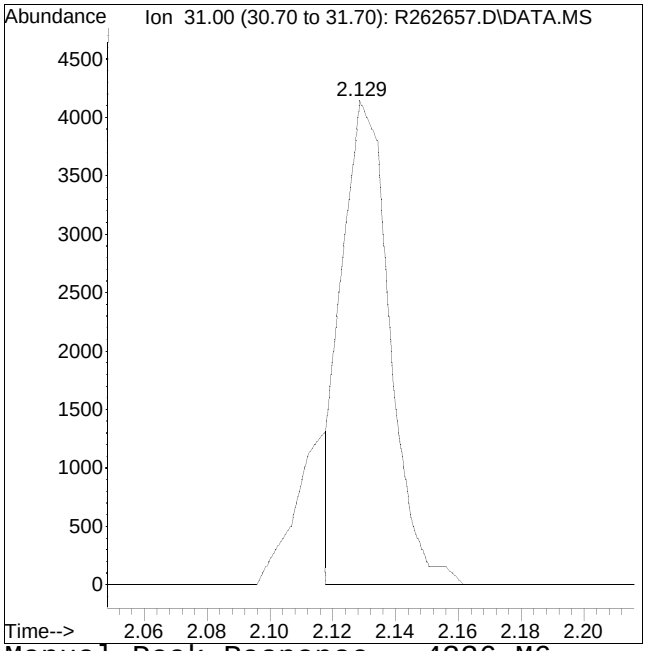
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #8: methanol



Original Peak Response = 5391



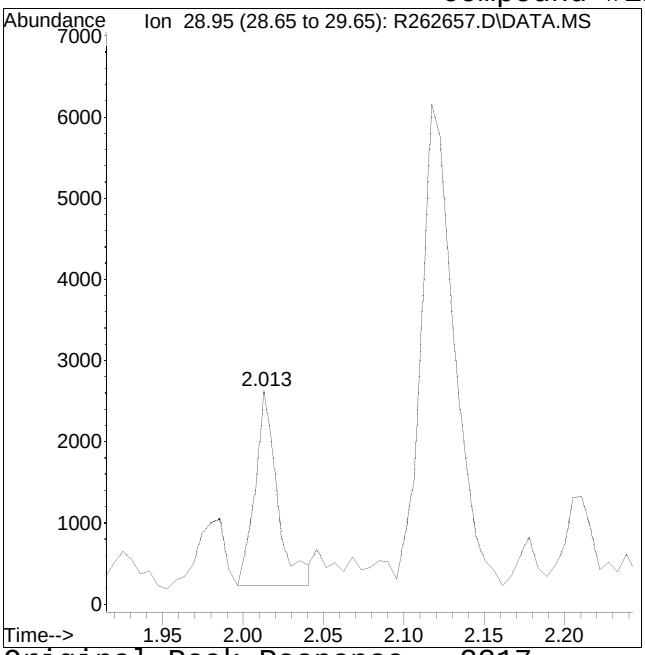
Manual Peak Response = 4336 M6

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

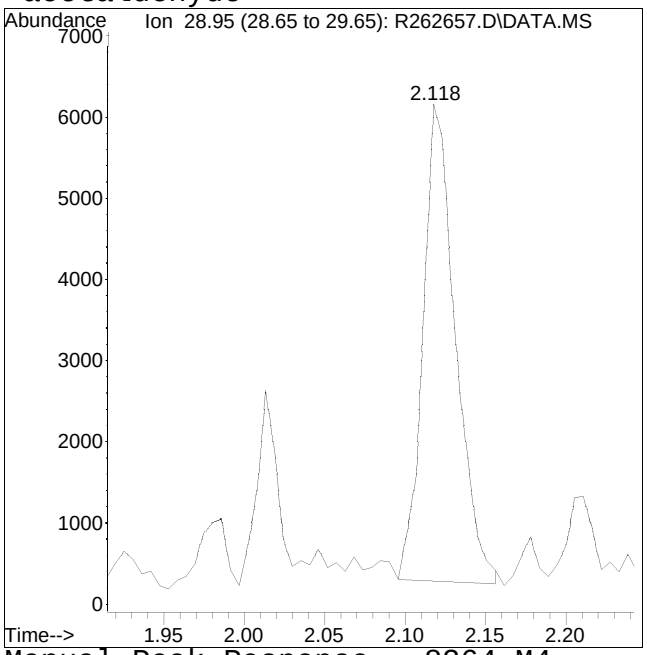
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #12: acetaldehyde



Original Peak Response = 2317



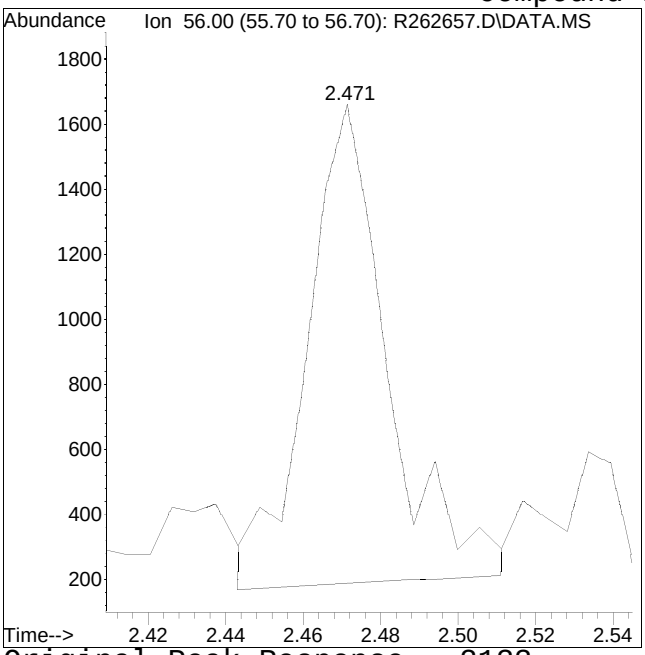
Manual Peak Response = 8264 M4

M4 = Poor automated baseline construction.

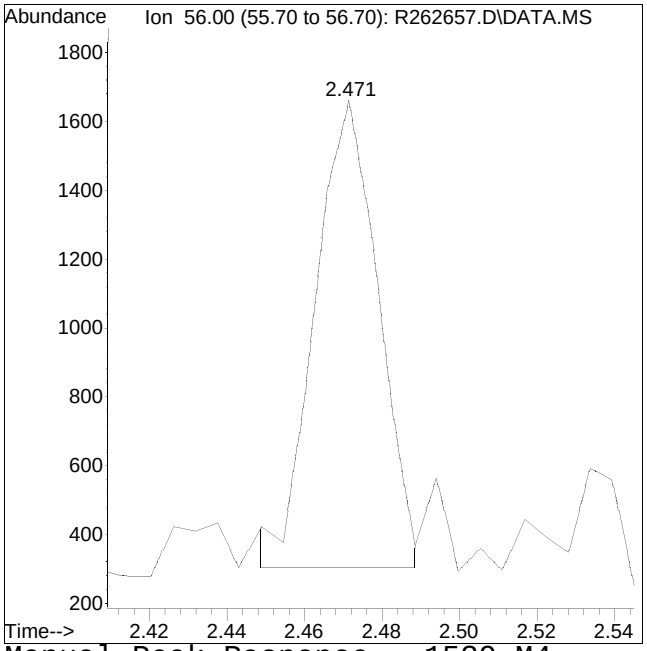
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #18: acrolein



Original Peak Response = 2133



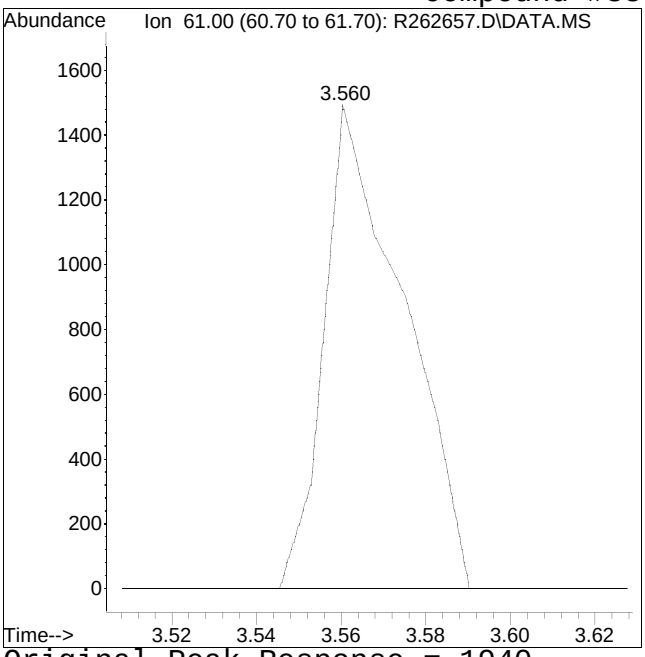
Manual Peak Response = 1539 M4

M4 = Poor automated baseline construction.

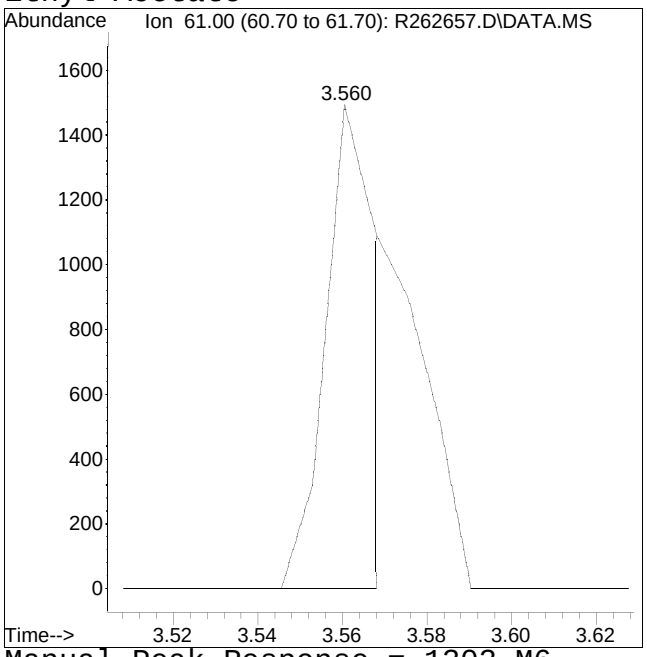
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #38: Ethyl Acetate



Original Peak Response = 1940



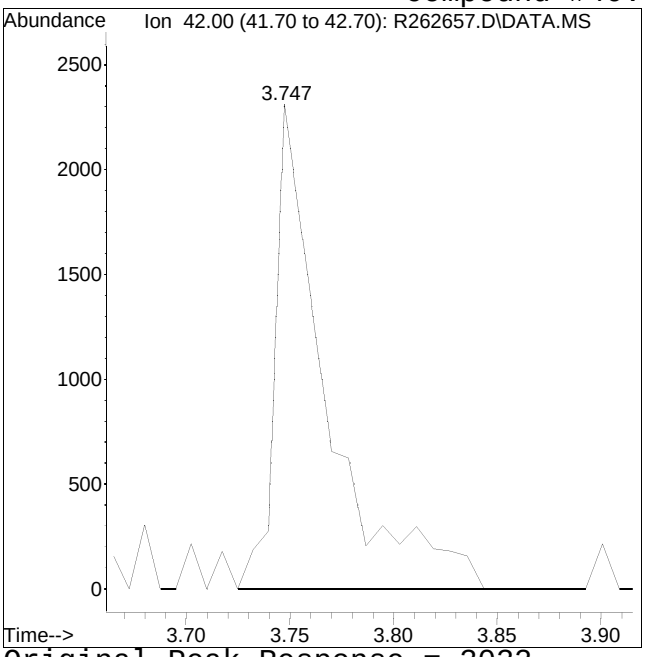
Manual Peak Response = 1303 M6

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

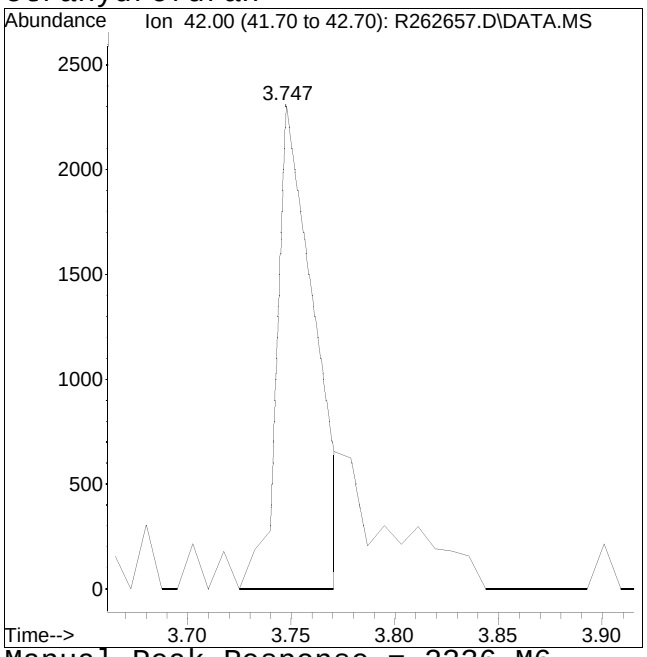
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 3032



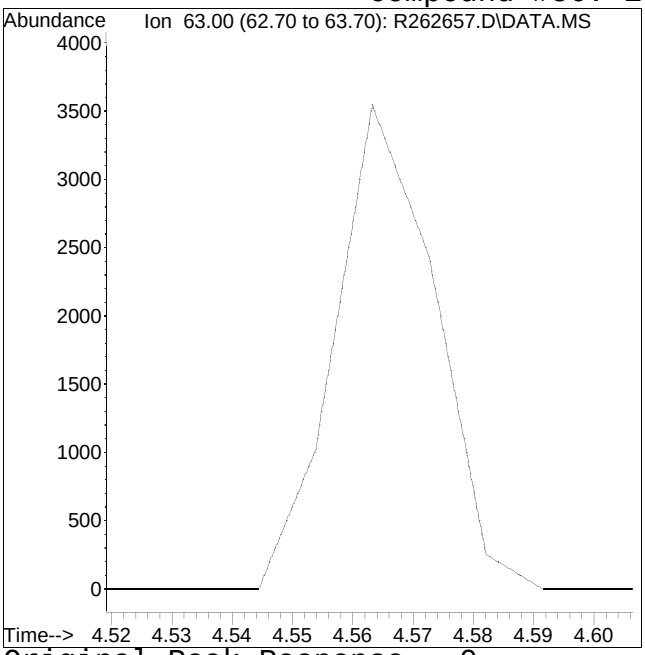
Manual Peak Response = 2336 M6

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

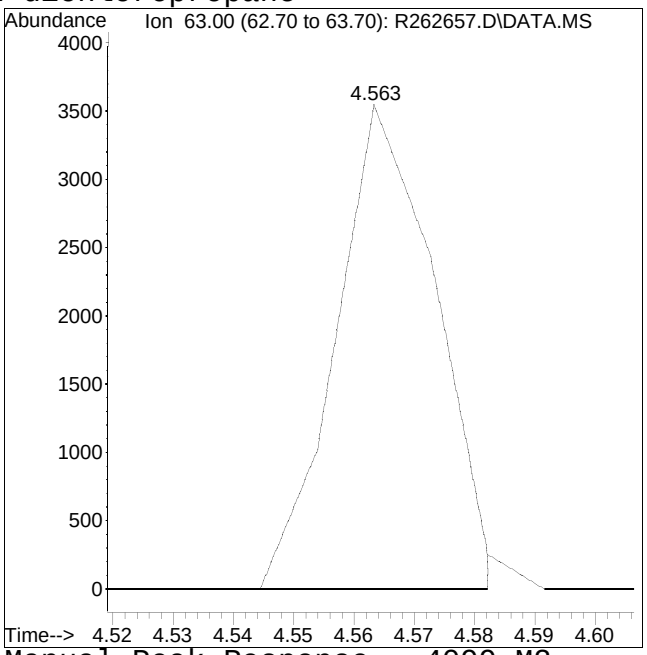
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #56: 1,2-dichloropropane



Original Peak Response = 0



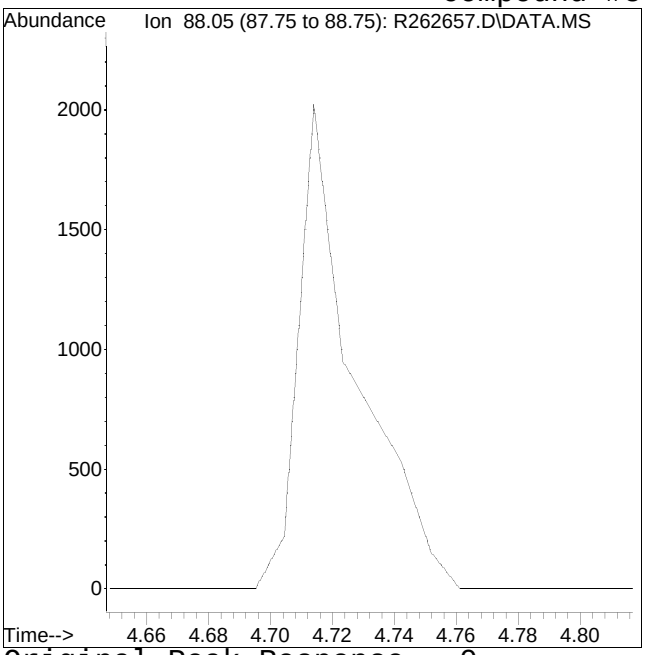
Manual Peak Response = 4099 M2

M2 = Peak not found by automatic integration algorithm.

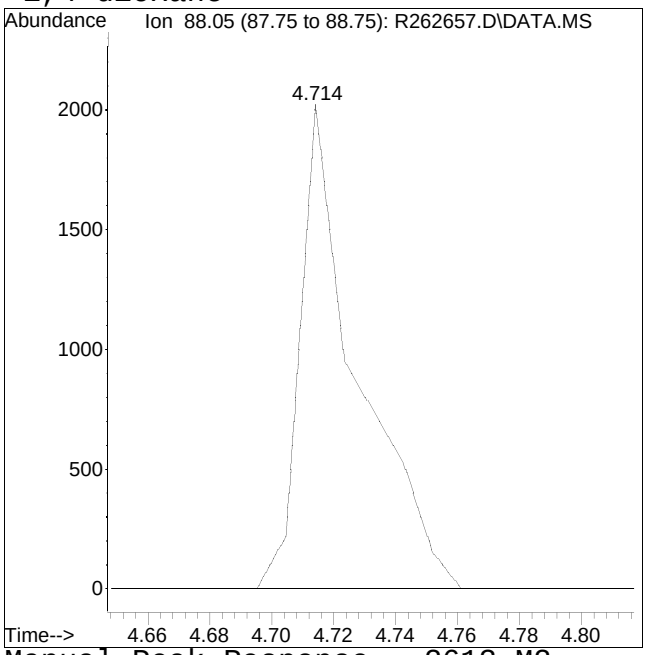
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #58: 1,4-dioxane



Original Peak Response = 0



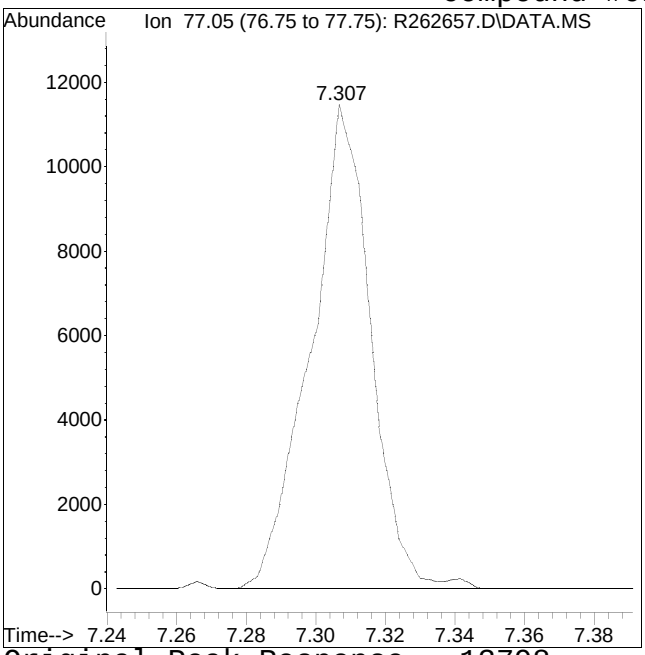
Manual Peak Response = 2613 M2

M2 = Peak not found by automatic integration algorithm.

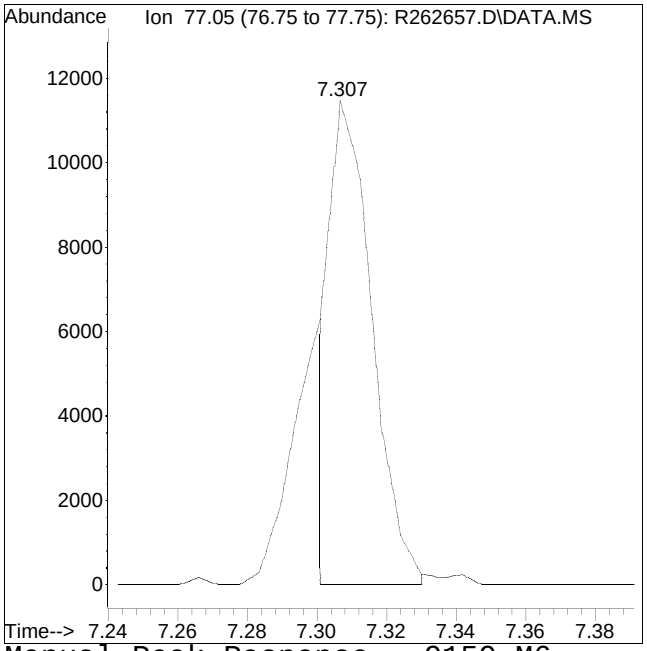
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #92: bromobenzene



Original Peak Response = 13798



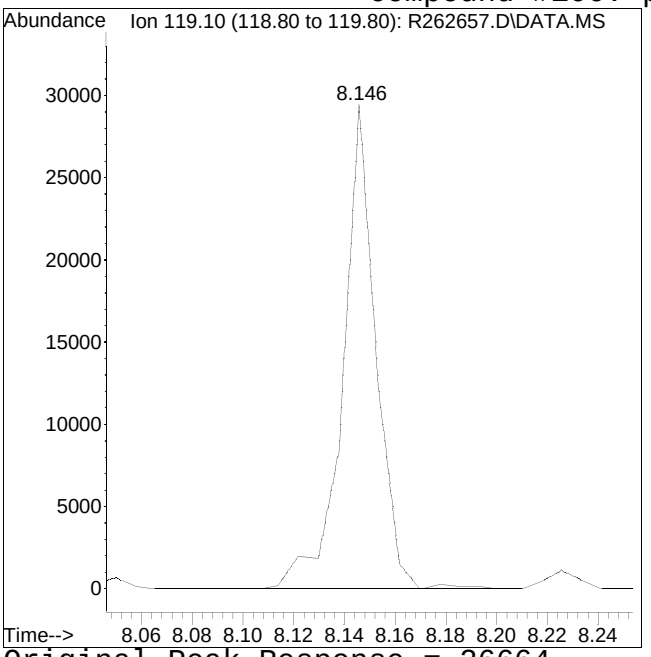
Manual Peak Response = 9159 M6

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

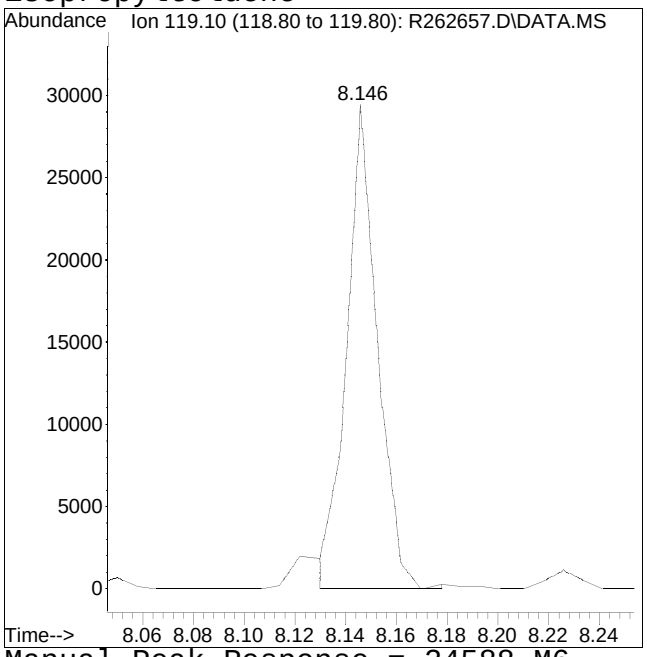
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 26664



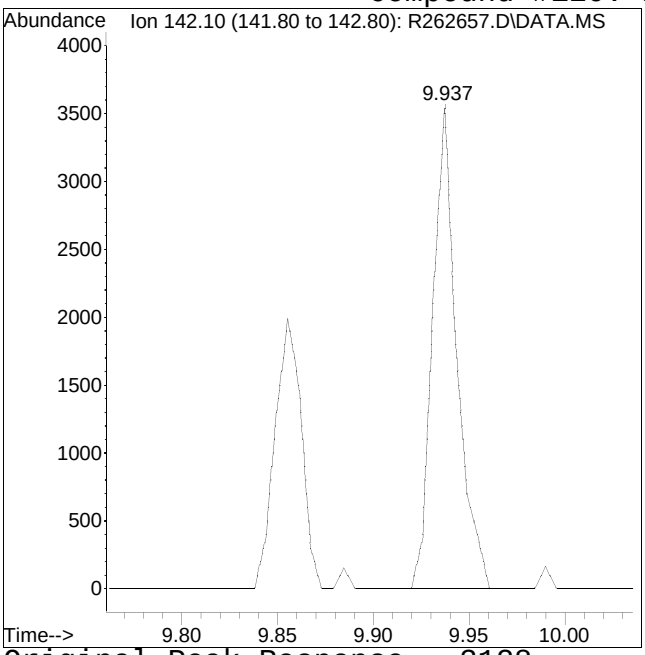
Manual Peak Response = 24588 M6

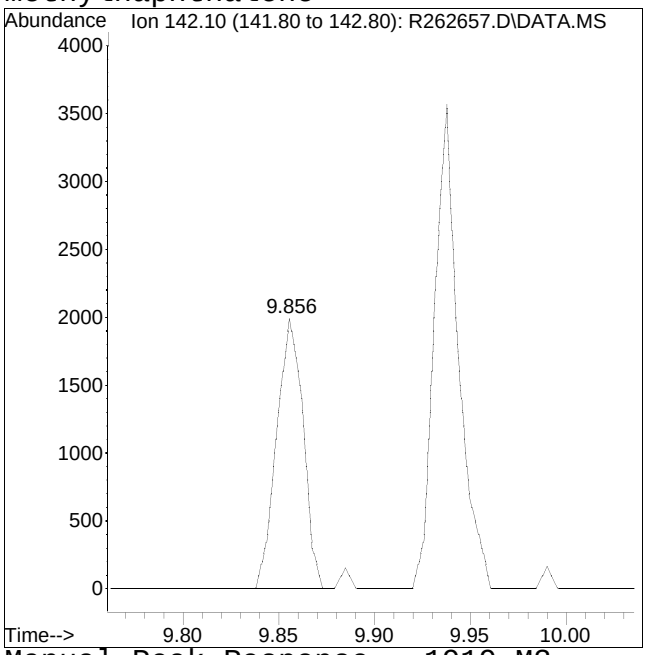
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 12:15 pm

Compound #120: 2-methylnaphthalene





Original Peak Response = 3128 Manual Peak Response = 1919 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\04\0402T_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	201371	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 104.23%			
43) 1,4-difluorobenzene	4.365	114	872889	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 104.60%			
67) chlorobenzene-D5	6.449	54	103961	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 103.18%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	202380	9.901	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.01%			
69) toluene-D8	5.541	98	723606	9.983	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.83%			
90) bromofluorobenzene	7.214	95	425368	9.792	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.92%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	4106M6	0.451	ppbV	
3) propylene	2.002	41	7089	0.638	ppbV	94
4) propane	2.008	29	5473	0.868	ppbV #	74
5) dichlorodifluoromethane	2.024	85	25013	0.598	ppbV	98
6) chloromethane	2.074	50	7852	0.649	ppbV	91
7) Freon-114	2.107	85	26285	0.604	ppbV	99
8) methanol	2.123	31	9393M6	3.484	ppbV	
9) vinyl chloride	2.145	62	9105	0.597	ppbV	88
10) 1,3-butadiene	2.189	54	7211	0.692	ppbV	82
11) butane	2.205	43	10757	0.615	ppbV	93
12) acetaldehyde	2.112	29	18491	3.590	ppbV #	86
13) bromomethane	2.271	94	9214	0.572	ppbV	87
14) chloroethane	2.326	64	5147	0.602	ppbV #	81
15) ethanol	2.365	31	26296	4.093	ppbV	98
16) dichlorofluoromethane	2.354	67	23406	0.655	ppbV	96
17) vinyl bromide	2.432	106	11351	0.694	ppbV	87
18) acrolein	2.466	56	4064	0.609	ppbV #	92
19) acetone	2.505	43	49973	3.190	ppbV #	95
20) acetonitrile	2.432	41	6603M4	0.643	ppbV	
21) trichlorofluoromethane	2.556	101	23448	0.611	ppbV	98
22) isopropyl alcohol	2.573	45	30614	1.804	ppbV	99
23) acrylonitrile	2.630	53	7177	0.602	ppbV	96
24) pentane	2.653	43	12826	0.568	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.658	31	6720	0.681	ppbV		95
26) 1,1-dichloroethene	2.727	61	12108	0.497	ppbV		90
27) tertiary butyl alcohol	2.746	59	17551	0.671	ppbV	#	89
28) methylene chloride	2.760	49	8331	0.640	ppbV		98
29) 3-chloropropene	2.798	41	8196	0.610	ppbV		96
30) carbon disulfide	2.851	76	24291	0.591	ppbV	#	48
31) Freon 113	2.846	101	19437	0.581	ppbV		96
32) trans-1,2-dichloroethene	3.062	61	11346	0.588	ppbV		98
33) 1,1-dichloroethane	3.133	63	15819	0.611	ppbV		96
34) MTBE	3.164	73	23267	0.573	ppbV	#	96
35) vinyl acetate	3.195	43	17050	0.641	ppbV		95
36) 2-butanone	3.288	43	14095	0.559	ppbV		98
37) cis-1,2-dichloroethene	3.448	61	13327	0.606	ppbV		97
38) Ethyl Acetate	3.560	61	3010M6	0.469	ppbV		
39) chloroform	3.568	83	20878	0.585	ppbV		98
40) Tetrahydrofuran	3.747	42	7144M6	0.576	ppbV		
41) 2,2-dichloropropane	3.575	77	17605	0.593	ppbV		96
42) 1,2-dichloroethane	3.868	62	12472	0.604	ppbV		95
44) hexane	3.545	57	15197	0.635	ppbV	#	46
45) diisopropyl ether	3.553	87	11149	0.556	ppbV		91
46) tert-butyl ethyl ether	3.778	59	35369	0.716	ppbV		93
48) 1,1,1-trichloroethane	3.982	97	21591	0.579	ppbV		95
49) 1,1-dichloropropene	4.120	75	16295	0.506	ppbV		92
50) benzene	4.186	78	33024	0.571	ppbV		95
51) thiophene	4.233	84	25283	0.441	ppbV		93
52) carbon tetrachloride	4.252	117	21376	0.553	ppbV		94
53) cyclohexane	4.309	56	14278	0.584	ppbV		96
54) tert-amyl methyl ether	4.488	73	29452	0.556	ppbV		97
55) dibromomethane	4.544	93	12517	0.562	ppbV		98
56) 1,2-dichloropropane	4.563	63	11183	0.585	ppbV		91
57) bromodichloromethane	4.657	83	20850	0.543	ppbV		99
58) 1,4-dioxane	4.705	88	7117	0.572	ppbV		95
59) trichloroethene	4.686	130	17393	0.579	ppbV		95
60) 2,2,4-trimethylpentane	4.723	57	45213	0.604	ppbV		98
61) methyl methacrylate	4.818	41	11102	0.600	ppbV		96
62) heptane	4.865	43	13992	0.595	ppbV		96
63) cis-1,3-dichloropropene	5.110	75	16761	0.531	ppbV		98
64) 4-methyl-2-pentanone	5.158	43	17019	0.544	ppbV		99
65) trans-1,3-dichloropropene	5.381	75	13428	0.533	ppbV		97
66) 1,1,2-trichloroethane	5.453	97	14014	0.537	ppbV		92

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	42020	0.572	ppbV		99
70) 2-methylthiophene	5.613	97	38058	0.430	ppbV		95
71) 1,3-dichloropropane	5.605	76	19673	0.607	ppbV	#	95
72) 2-hexanone	5.764	43	16115	0.542	ppbV		92
73) 3-methylthiophene	5.701	97	40399	0.430	ppbV		100
74) dibromochloromethane	5.780	129	23048	0.533	ppbV		97
75) 1,2-dibromoethane	5.900	107	22061	0.557	ppbV		96
76) butyl acetate	6.100	73	4835	0.534	ppbV		82
77) octane	6.132	85	14261	0.595	ppbV		94
78) tetrachloroethene	6.148	166	22449	0.596	ppbV		93
79) 1,1,1,2-tetrachloroethane	6.471	131	17115	0.542	ppbV		98
80) chlorobenzene	6.471	112	35024	0.571	ppbV		99
81) ethylbenzene	6.673	91	54037	0.569	ppbV		95
82) 2-ethylthiophene	6.689	97	44862	0.421	ppbV		99
83) m+p-xylene	6.766	91	87963	1.180	ppbV		99
84) bromoform	6.766	173	21877	0.504	ppbV		99
85) styrene	6.940	104	33997	0.560	ppbV		98
86) 1,1,2,2-tetrachloroethane	6.987	83	29679	0.557	ppbV		99
87) o-xylene	6.992	91	41583	0.578	ppbV		98
88) 1,2,3-trichloropropane	7.051	75	21923	0.577	ppbV		97
89) nonane	7.155	43	20367	0.570	ppbV		98
91) isopropylbenzene	7.295	105	60455	0.572	ppbV		100
92) bromobenzene	7.307	77	22901M6	0.369	ppbV		
93) 2-chlorotoluene	7.523	126	16010	0.550	ppbV		91
94) n-propylbenzene	7.563	120	17549	0.558	ppbV		76
95) 4-chlorotoluene	7.563	126	16572	0.565	ppbV		66
96) 4-ethyl toluene	7.643	105	56906	0.541	ppbV		100
97) 1,3,5-trimethylbenzene	7.683	105	50567	0.569	ppbV		98
98) tert-butylbenzene	7.898	119	58112	0.584	ppbV		94
99) 1,2,4-trimethylbenzene	7.898	105	50809	0.562	ppbV	#	89
100) decane	8.002	57	28412	0.594	ppbV		95
101) Benzyl Chloride	7.954	91	35970	0.481	ppbV		97
102) 1,3-dichlorobenzene	7.962	146	36665	0.551	ppbV		97
103) 1,4-dichlorobenzene	8.002	146	37858	0.570	ppbV		95
104) sec-butylbenzene	8.050	105	77228	0.583	ppbV		97
105) 1,2,3-trimethylbenzene	8.122	105	55400	0.573	ppbV		97
106) p-isopropyltoluene	8.146	119	68219M6	0.533	ppbV		
107) 1,2-dichlorobenzene	8.186	146	37054	0.567	ppbV		96
108) n-butylbenzene	8.385	91	58988	0.562	ppbV		99
109) indan	8.226	117	48595	0.619	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:15:57 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

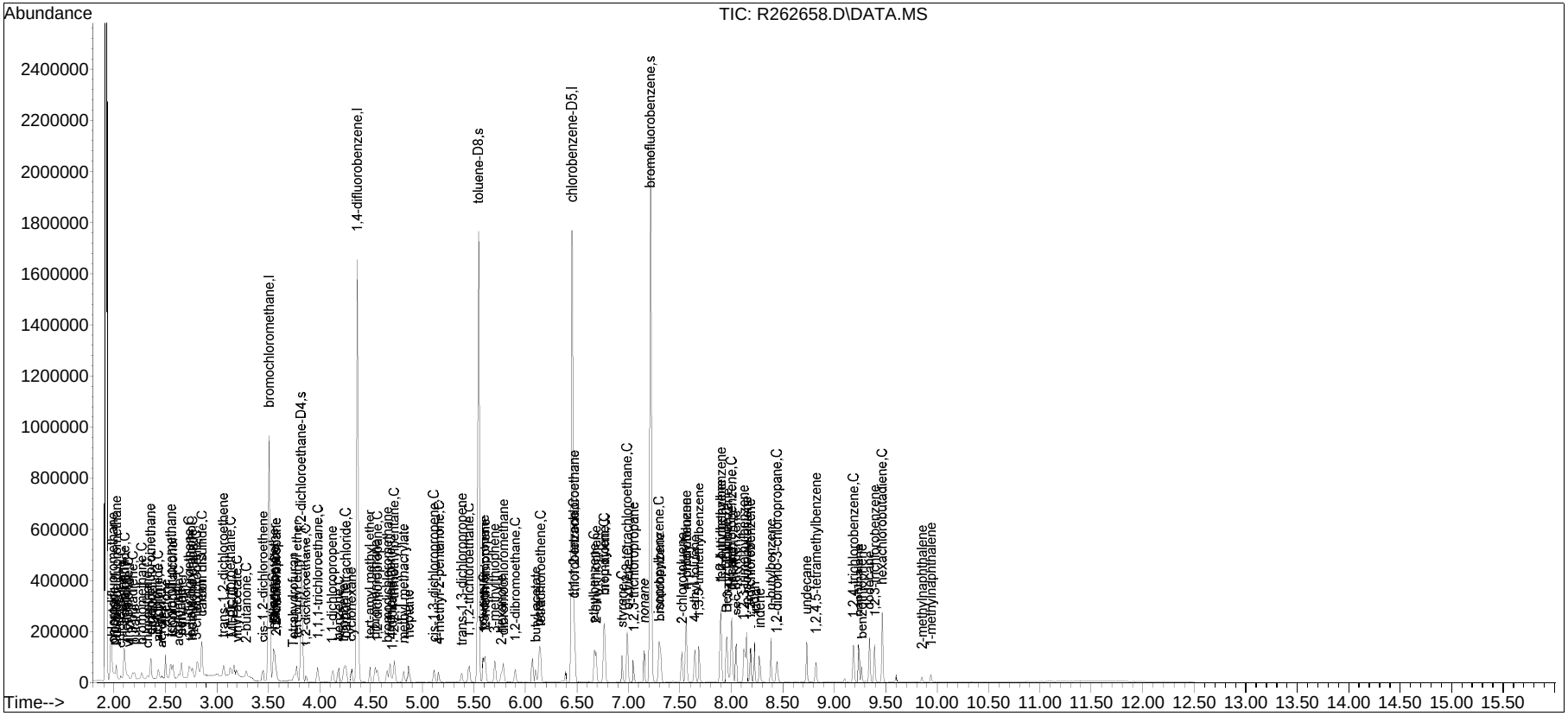
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	37006	0.579	ppbV	96
111) 1,2-dibromo-3-chloropr...	8.441	75	13464	0.507	ppbV	89
112) undecane	8.729	57	34374	0.565	ppbV	97
113) 1,2,4,5-tetramethylben...	8.824	119	27924	0.439	ppbV	93
114) dodecane	9.341	57	30517	0.402	ppbV	97
115) 1,2,4-trichlorobenzene	9.189	180	31387	0.482	ppbV	97
116) naphthalene	9.236	128	73062	0.480	ppbV	98
117) 1,2,3-trichlorobenzene	9.394	180	28478	0.409	ppbV	97
118) benzothiophene	9.271	134	31768	0.373	ppbV	99
119) hexachlorobutadiene	9.464	225	29792	0.571	ppbV	95
120) 2-methylnaphthalene	9.856	142	6349M3	0.386	ppbV	
121) 1-methylnaphthalene	9.937	142	9246	0.450	ppbV	98

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

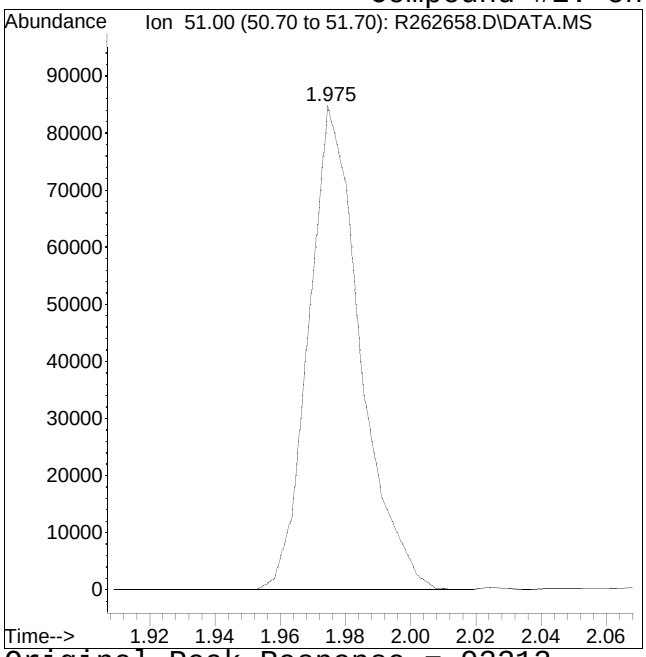
Quant Time: Apr 03 12:15:57 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



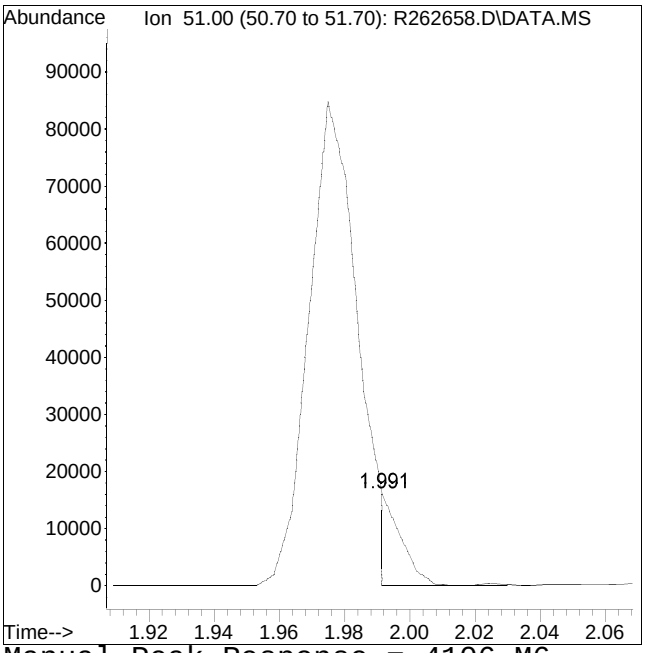
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 93212



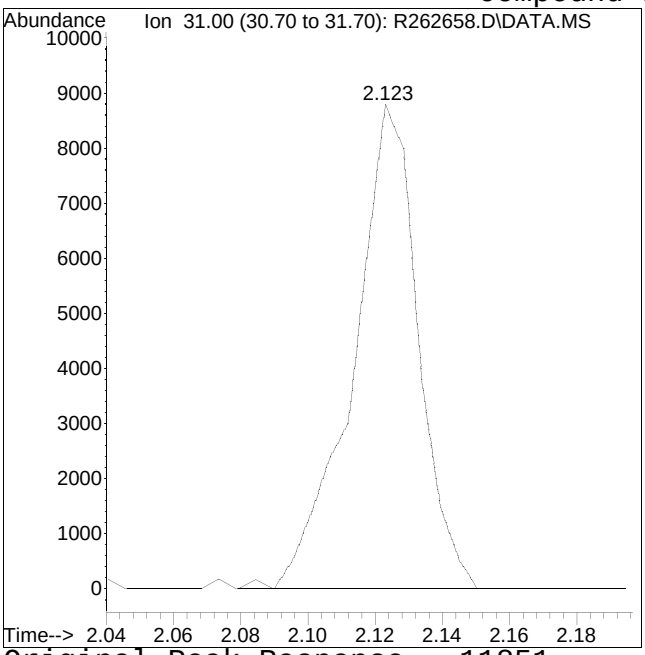
Manual Peak Response = 4106 M6

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

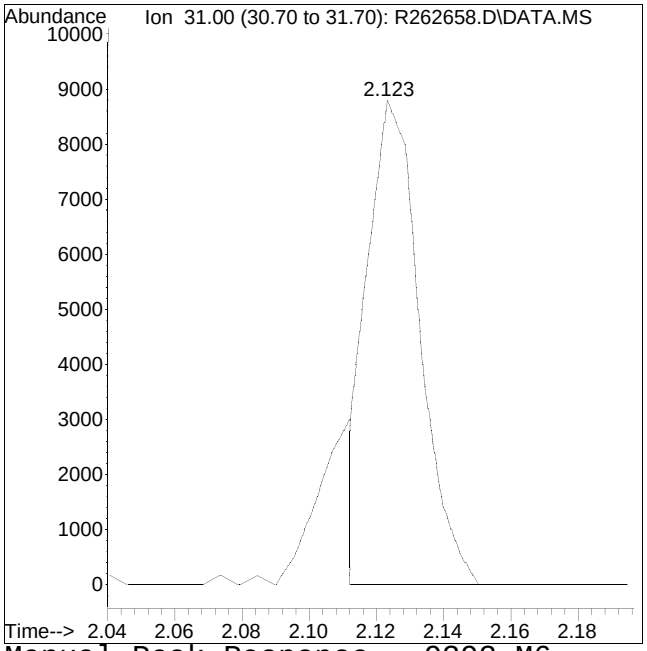
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #8: methanol



Original Peak Response = 11851



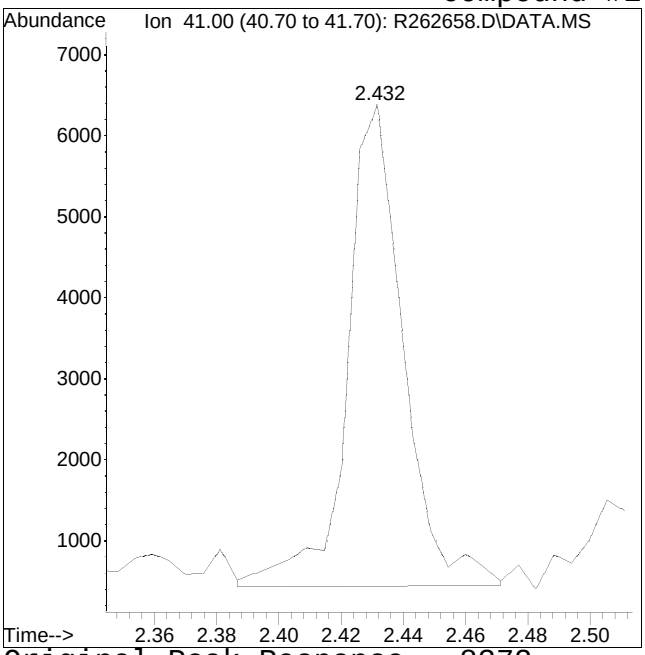
Manual Peak Response = 9393 M6

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

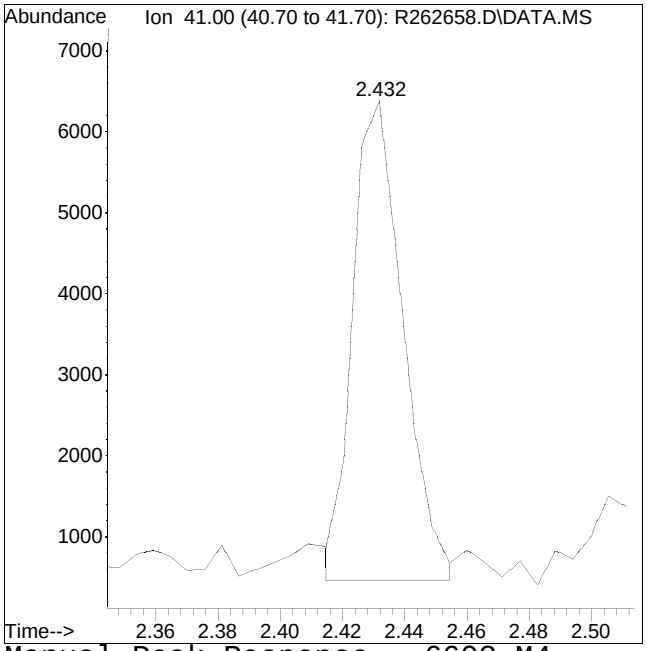
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #20: acetonitrile



Original Peak Response = 8372



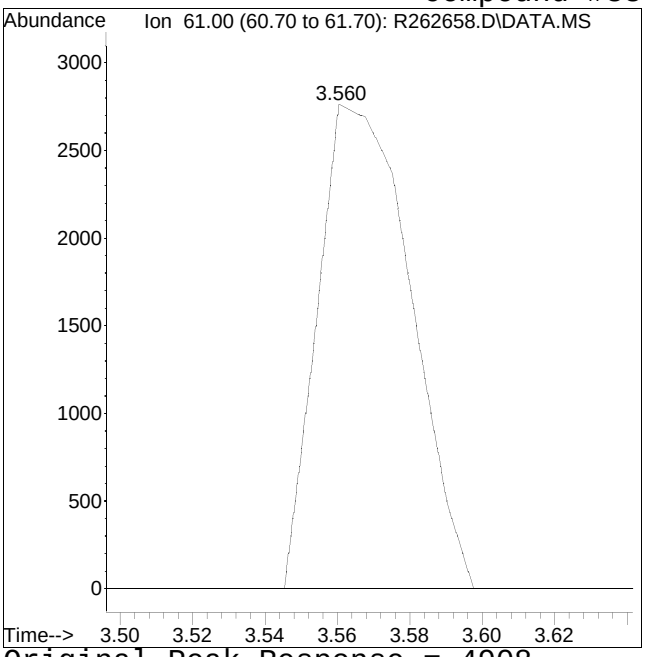
Manual Peak Response = 6603 M4

M4 = Poor automated baseline construction.

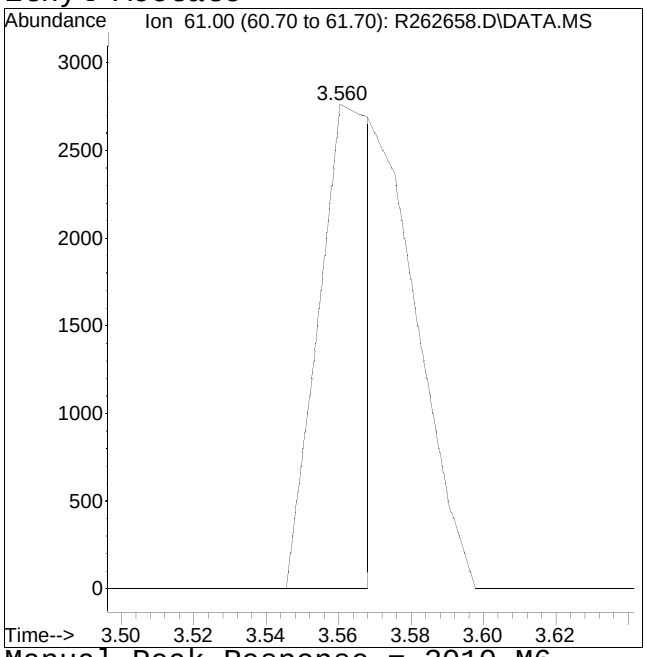
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #38: Ethyl Acetate



Original Peak Response = 4908



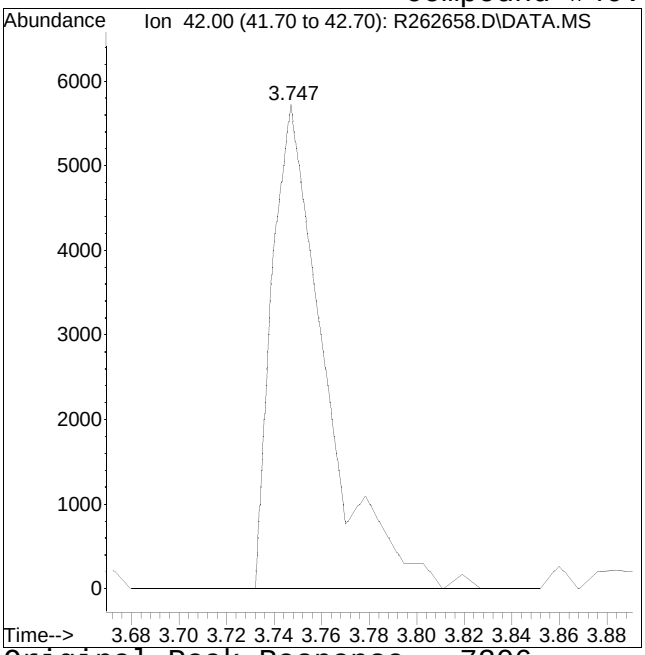
Manual Peak Response = 3010 M6

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

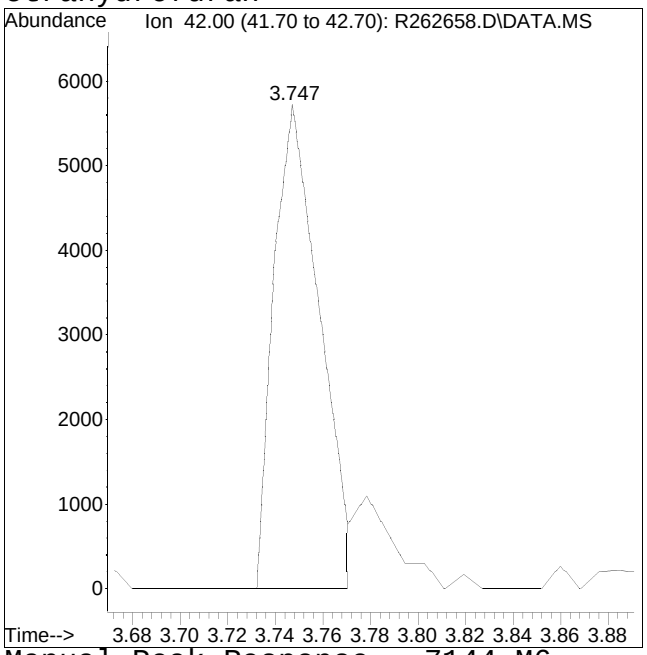
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 7206



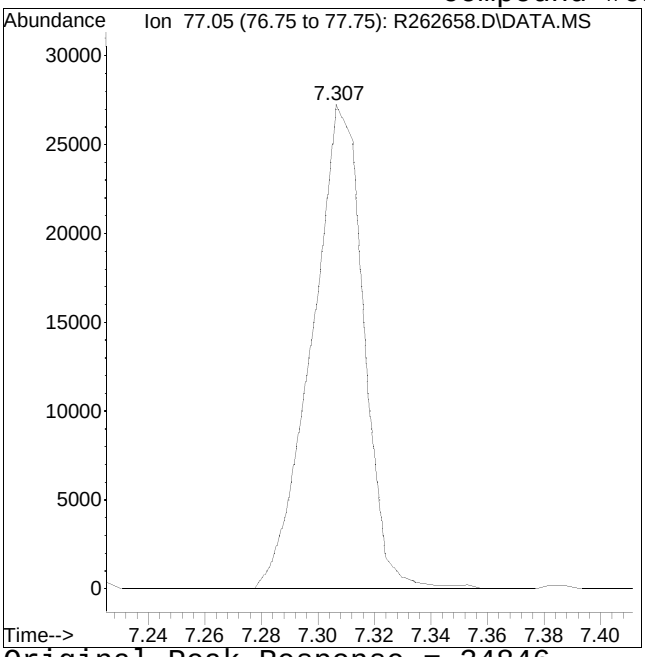
Manual Peak Response = 7144 M6

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

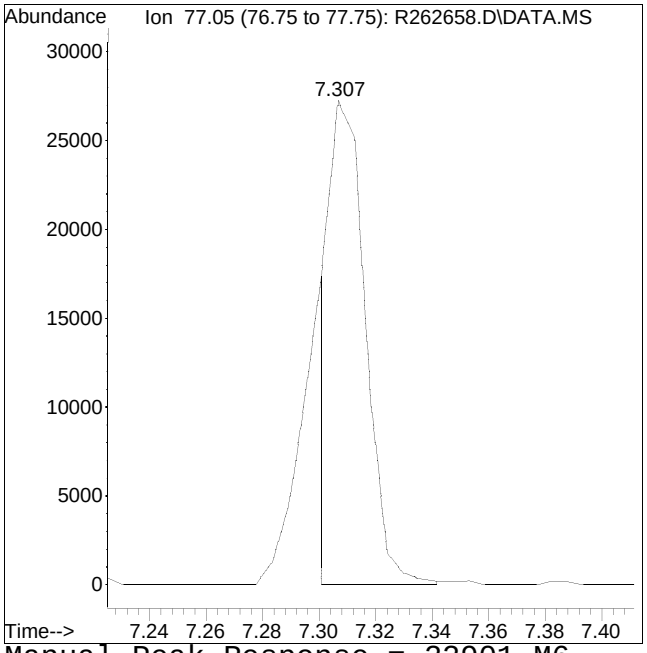
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #92: bromobenzene



Original Peak Response = 34846



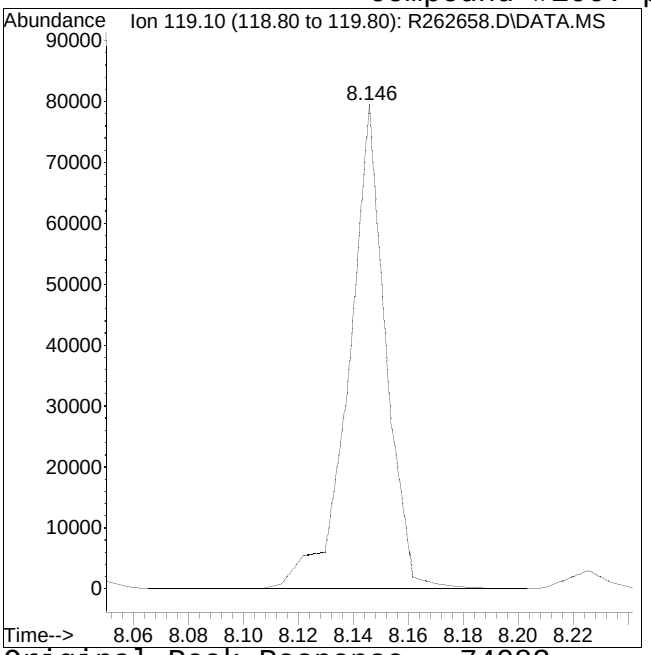
Manual Peak Response = 22901 M6

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

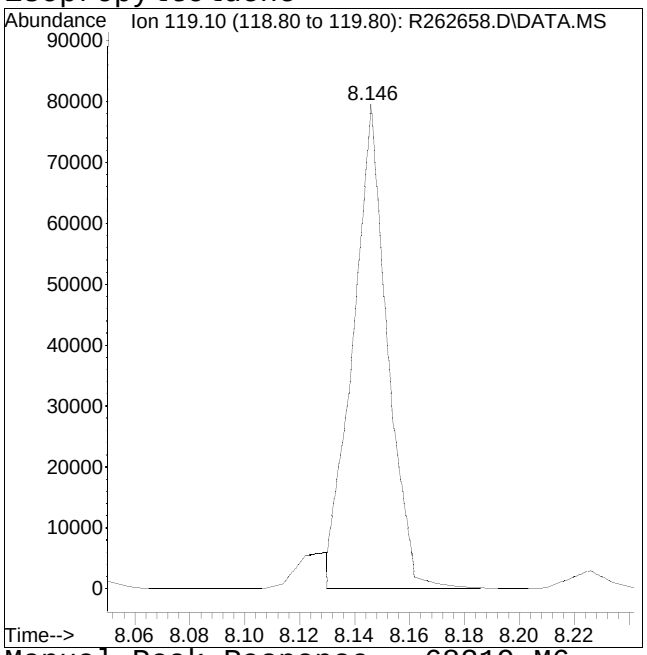
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 74083



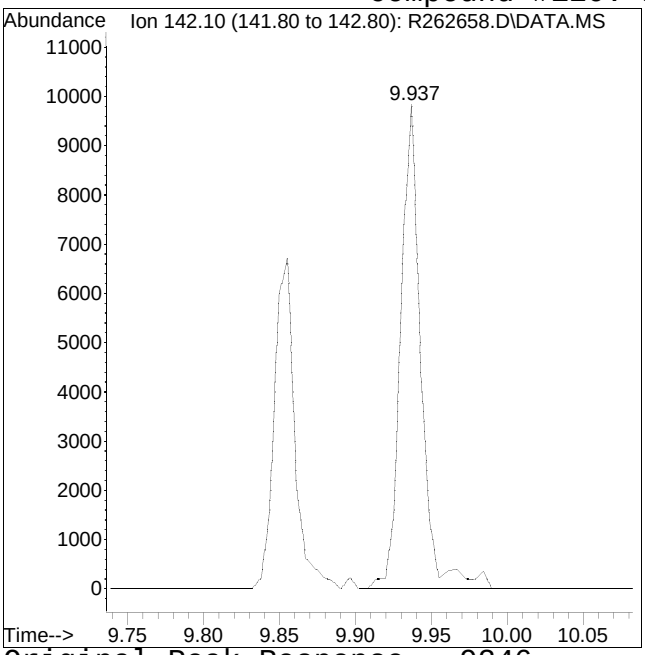
Manual Peak Response = 68219 M6

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

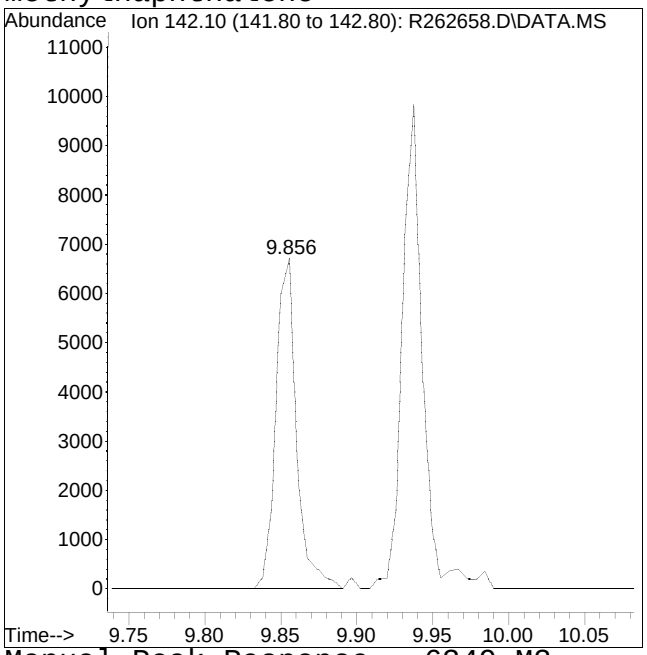
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 12:15 pm

Compound #120: 2-methylnaphthalene



Original Peak Response = 9246



Manual Peak Response = 6349 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\04\0402T_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:16:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	201362	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 104.23%			
43) 1,4-difluorobenzene	4.365	114	871888	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 104.48%			
67) chlorobenzene-D5	6.450	54	104007	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 103.22%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	199545	9.774	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.74%			
69) toluene-D8	5.542	98	720248	9.932	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.32%			
90) bromofluorobenzene	7.215	95	430985	9.917	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.17%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.992	51	9265M6	1.017	ppbV	
3) propylene	2.003	41	13602	1.224	ppbV	92
4) propane	2.008	29	7911	1.254	ppbV #	73
5) dichlorodifluoromethane	2.025	85	48656	1.164	ppbV	98
6) chloromethane	2.074	50	14680	1.213	ppbV	99
7) Freon-114	2.107	85	50990	1.171	ppbV	98
8) methanol	2.123	31	17887M6	6.636	ppbV	
9) vinyl chloride	2.145	62	18549	1.216	ppbV	97
10) 1,3-butadiene	2.189	54	13000	1.247	ppbV	94
11) butane	2.206	43	21667	1.239	ppbV	93
12) acetaldehyde	2.112	29	33217	6.449	ppbV	92
13) bromomethane	2.272	94	18592	1.154	ppbV	93
14) chloroethane	2.327	64	10830	1.267	ppbV	95
15) ethanol	2.360	31	44560	6.935	ppbV	94
16) dichlorofluoromethane	2.354	67	44785	1.253	ppbV	99
17) vinyl bromide	2.432	106	19248	1.177	ppbV	93
18) acrolein	2.466	56	7499	1.124	ppbV #	86
19) acetone	2.506	43	94470	6.031	ppbV #	100
20) acetonitrile	2.432	41	14103	1.374	ppbV	86
21) trichlorofluoromethane	2.551	101	45706	1.191	ppbV	98
22) isopropyl alcohol	2.568	45	53785	3.169	ppbV	98
23) acrylonitrile	2.630	53	12853	1.079	ppbV	95
24) pentane	2.653	43	23955	1.060	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:16:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.659	31	12311	1.247	ppbV		98
26) 1,1-dichloroethene	2.726	61	24527	1.008	ppbV		98
27) tertiary butyl alcohol	2.740	59	31272	1.196	ppbV		98
28) methylene chloride	2.759	49	16141	1.240	ppbV		93
29) 3-chloropropene	2.798	41	15913	1.184	ppbV		95
30) carbon disulfide	2.845	76	47966	1.167	ppbV	#	74
31) Freon 113	2.845	101	39163	1.170	ppbV		99
32) trans-1,2-dichloroethene	3.062	61	22176	1.149	ppbV		94
33) 1,1-dichloroethane	3.133	63	30126	1.164	ppbV		95
34) MTBE	3.164	73	47448	1.169	ppbV		96
35) vinyl acetate	3.195	43	32526	1.224	ppbV		96
36) 2-butanone	3.283	43	29126	1.156	ppbV		96
37) cis-1,2-dichloroethene	3.448	61	25156	1.144	ppbV		98
38) Ethyl Acetate	3.568	61	6935M6	1.081	ppbV		
39) chloroform	3.560	83	42273	1.184	ppbV		96
40) Tetrahydrofuran	3.739	42	17108M6	1.378	ppbV		
41) 2,2-dichloropropane	3.575	77	34210	1.152	ppbV		95
42) 1,2-dichloroethane	3.868	62	24056	1.164	ppbV		99
44) hexane	3.545	57	30070	1.259	ppbV	#	59
45) diisopropyl ether	3.553	87	22544	1.126	ppbV		99
46) tert-butyl ethyl ether	3.778	59	64898	1.316	ppbV		97
48) 1,1,1-trichloroethane	3.982	97	41923	1.126	ppbV		97
49) 1,1-dichloropropene	4.120	75	31594	0.983	ppbV		96
50) benzene	4.186	78	67805	1.173	ppbV		99
51) thiophene	4.233	84	51460	0.898	ppbV		97
52) carbon tetrachloride	4.252	117	44663	1.157	ppbV		97
53) cyclohexane	4.308	56	28284	1.157	ppbV		97
54) tert-amyl methyl ether	4.488	73	58648	1.109	ppbV		98
55) dibromomethane	4.544	93	25811	1.160	ppbV		95
56) 1,2-dichloropropane	4.563	63	22802	1.194	ppbV		88
57) bromodichloromethane	4.657	83	41687	1.086	ppbV		98
58) 1,4-dioxane	4.695	88	14114	1.135	ppbV		91
59) trichloroethene	4.686	130	35351	1.179	ppbV		92
60) 2,2,4-trimethylpentane	4.723	57	88704	1.187	ppbV		98
61) methyl methacrylate	4.817	41	21565	1.166	ppbV		97
62) heptane	4.865	43	26402	1.123	ppbV		98
63) cis-1,3-dichloropropene	5.111	75	34113	1.081	ppbV		97
64) 4-methyl-2-pentanone	5.151	43	35195	1.125	ppbV		96
65) trans-1,3-dichloropropene	5.375	75	27397	1.088	ppbV		96
66) 1,1,2-trichloroethane	5.446	97	28123	1.079	ppbV		98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:16:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.590	91	83604	1.137	ppbV		98
70) 2-methylthiophene	5.614	97	77534	0.875	ppbV		100
71) 1,3-dichloropropane	5.606	76	36925	1.138	ppbV		99
72) 2-hexanone	5.758	43	31981	1.075	ppbV		98
73) 3-methylthiophene	5.702	97	81923	0.871	ppbV		95
74) dibromochloromethane	5.782	129	45966	1.062	ppbV		99
75) 1,2-dibromoethane	5.901	107	45272	1.143	ppbV		95
76) butyl acetate	6.093	73	9626	1.064	ppbV		99
77) octane	6.133	85	28473	1.188	ppbV		97
78) tetrachloroethene	6.141	166	43875	1.163	ppbV		97
79) 1,1,1,2-tetrachloroethane	6.467	131	34497	1.091	ppbV		95
80) chlorobenzene	6.472	112	69406	1.132	ppbV		98
81) ethylbenzene	6.674	91	107213	1.128	ppbV		98
82) 2-ethylthiophene	6.690	97	89438	0.840	ppbV		100
83) m+p-xylene	6.767	91	173748	2.330	ppbV		99
84) bromoform	6.761	173	44473	1.025	ppbV		97
85) styrene	6.941	104	65988	1.087	ppbV		98
86) 1,1,2,2-tetrachloroethane	6.982	83	60596	1.138	ppbV		100
87) o-xylene	6.988	91	83990	1.167	ppbV		93
88) 1,2,3-trichloropropane	7.052	75	42200	1.110	ppbV		99
89) nonane	7.156	43	39887	1.116	ppbV		98
91) isopropylbenzene	7.296	105	120291	1.138	ppbV		99
92) bromobenzene	7.308	77	54673M6	0.880	ppbV		
93) 2-chlorotoluene	7.519	126	32906	1.130	ppbV		100
94) n-propylbenzene	7.558	120	36580	1.162	ppbV		97
95) 4-chlorotoluene	7.558	126	32611	1.111	ppbV	#	16
96) 4-ethyl toluene	7.638	105	116981	1.112	ppbV		99
97) 1,3,5-trimethylbenzene	7.686	105	99371	1.117	ppbV		98
98) tert-butylbenzene	7.894	119	114943	1.155	ppbV		98
99) 1,2,4-trimethylbenzene	7.894	105	103788	1.148	ppbV	#	78
100) decane	8.005	57	55413	1.157	ppbV		93
101) Benzyl Chloride	7.958	91	73155	0.978	ppbV		99
102) 1,3-dichlorobenzene	7.958	146	75352	1.131	ppbV		96
103) 1,4-dichlorobenzene	7.997	146	76162	1.145	ppbV		97
104) sec-butylbenzene	8.045	105	154772	1.168	ppbV		100
105) 1,2,3-trimethylbenzene	8.125	105	110227	1.140	ppbV		98
106) p-isopropyltoluene	8.141	119	130795M6	1.022	ppbV		
107) 1,2-dichlorobenzene	8.181	146	72094	1.102	ppbV		99
108) n-butylbenzene	8.381	91	116699	1.111	ppbV		98
109) indan	8.221	117	96533	1.229	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 12:16:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

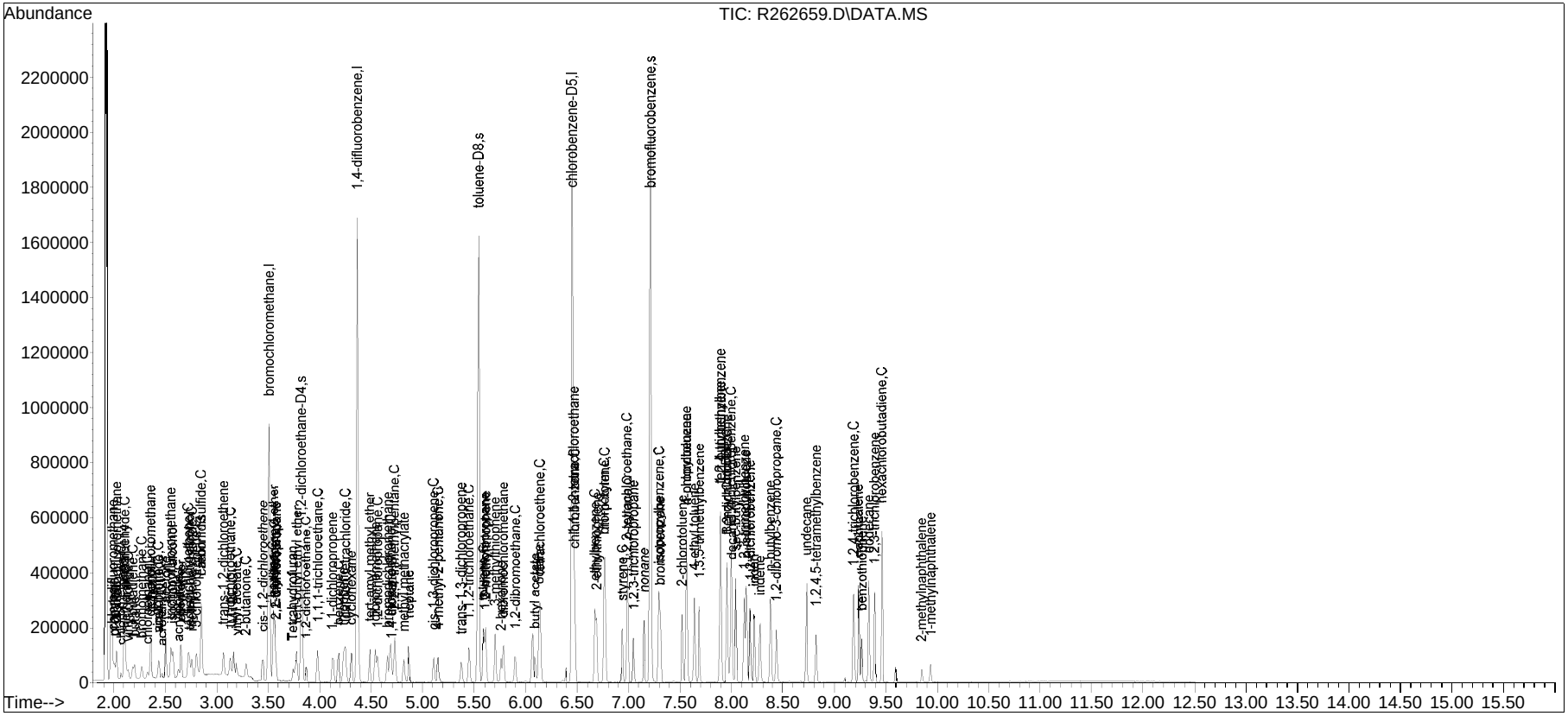
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.277	115	75473	1.181	ppbV		96
111) 1,2-dibromo-3-chloropr...	8.437	75	26507	0.997	ppbV		98
112) undecane	8.732	57	66209	1.087	ppbV		99
113) 1,2,4,5-tetramethylben...	8.820	119	51952	0.816	ppbV		98
114) dodecane	9.339	57	66560	0.877	ppbV		97
115) 1,2,4-trichlorobenzene	9.187	180	69108	1.060	ppbV		97
116) naphthalene	9.233	128	178163	1.170	ppbV		99
117) 1,2,3-trichlorobenzene	9.391	180	62564	0.899	ppbV		98
118) benzothiophene	9.269	134	75518	0.886	ppbV		99
119) hexachlorobutadiene	9.461	225	61512	1.178	ppbV	#	90
120) 2-methylnaphthalene	9.847	142	14727	0.894	ppbV		93
121) 1-methylnaphthalene	9.935	142	19240	0.936	ppbV		93

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049329
ALS Vial : 6 Sample Multiplier: 1

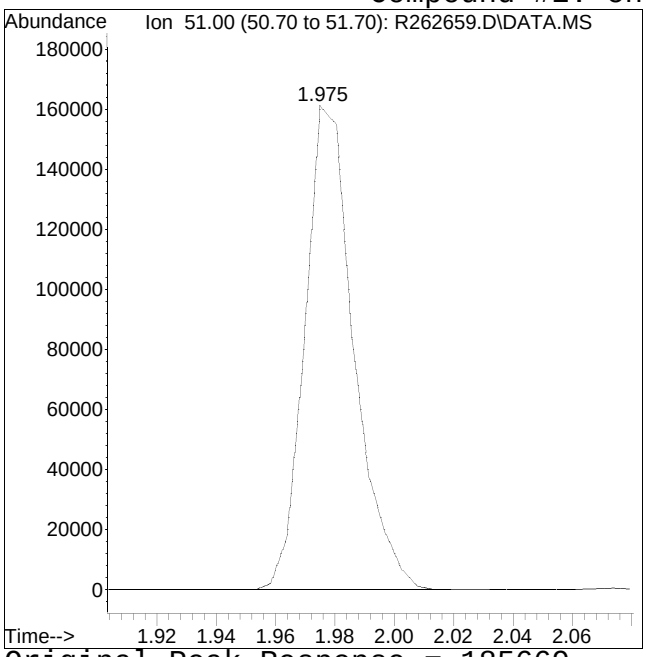
Quant Time: Apr 03 12:16:06 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



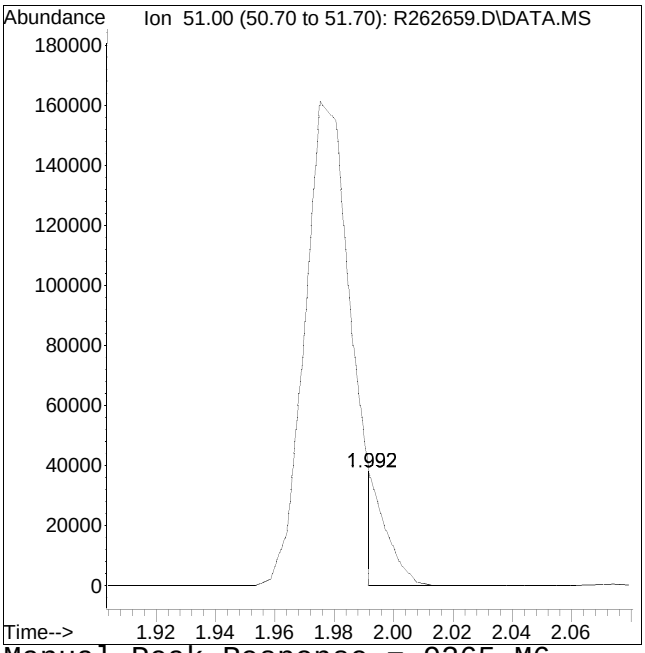
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 185669



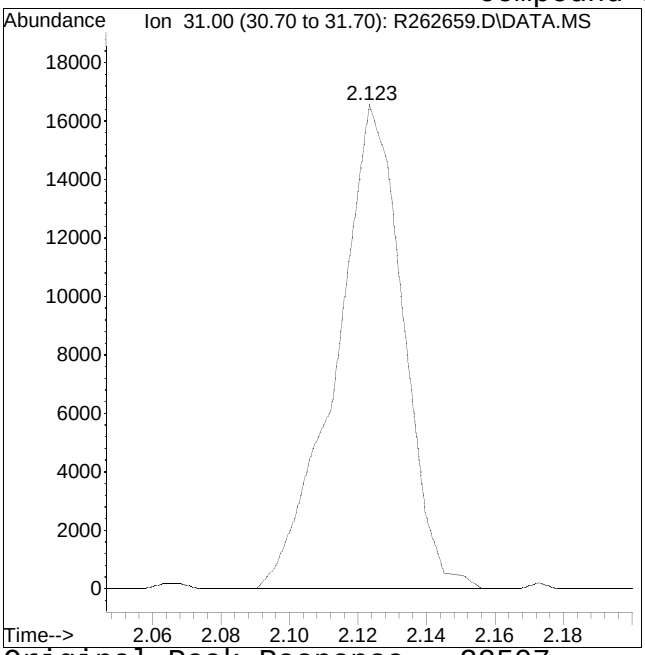
Manual Peak Response = 9265 M6

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

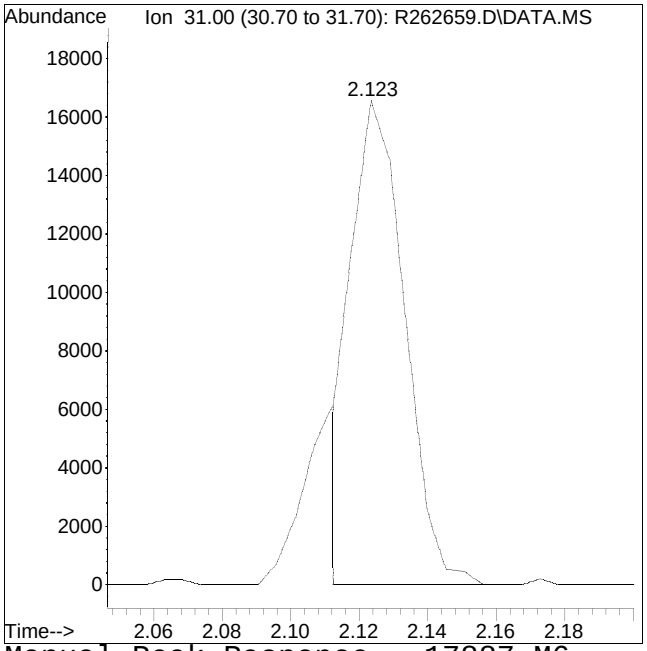
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #8: methanol



Original Peak Response = 22507



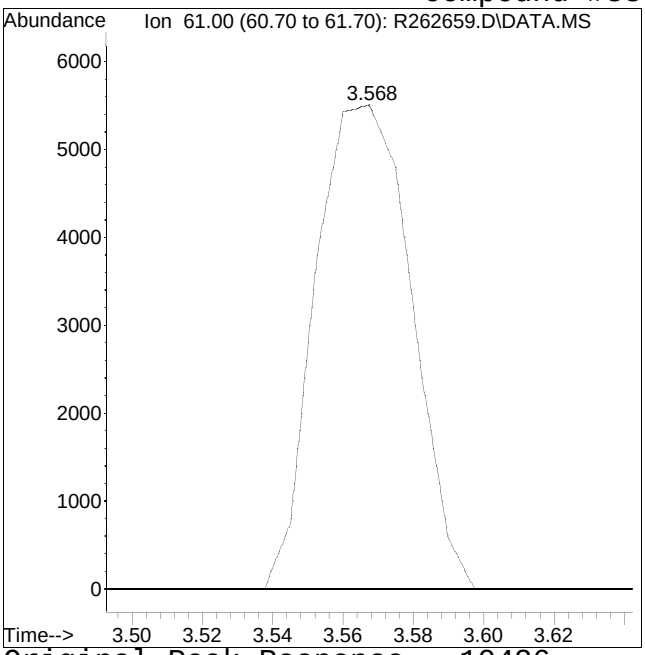
Manual Peak Response = 17887 M6

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

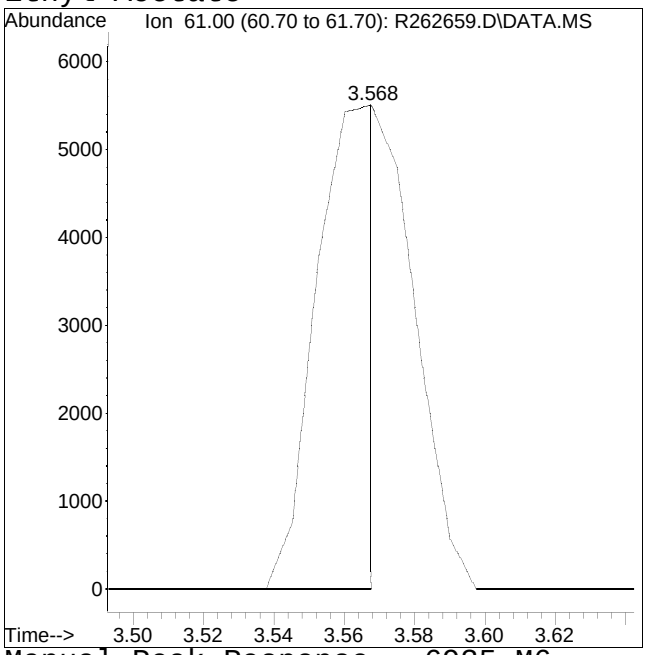
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #38: Ethyl Acetate



Original Peak Response = 10426



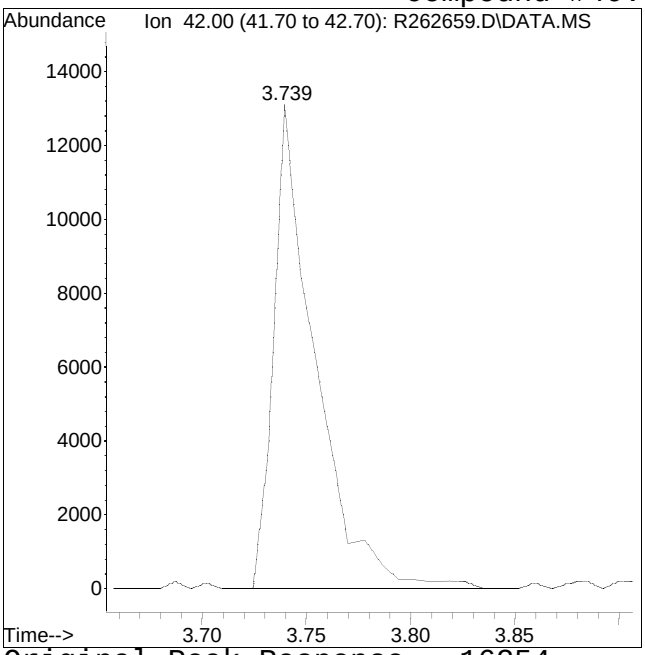
Manual Peak Response = 6935 M6

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

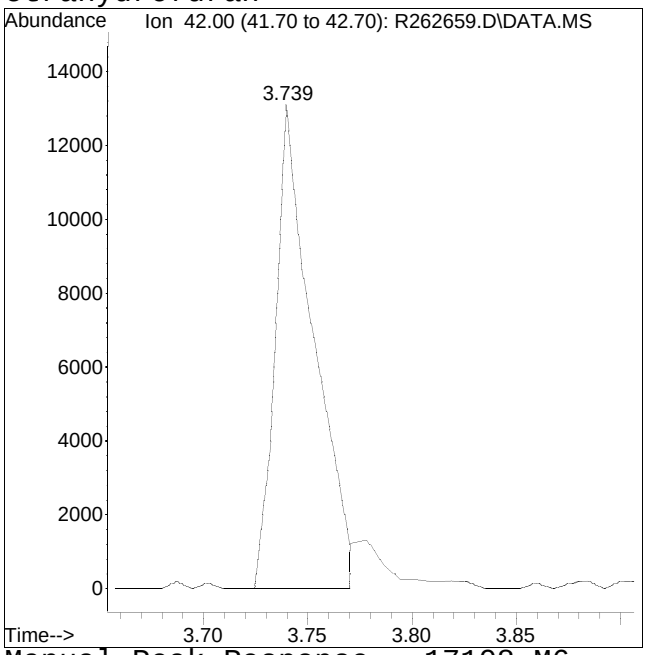
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 16254



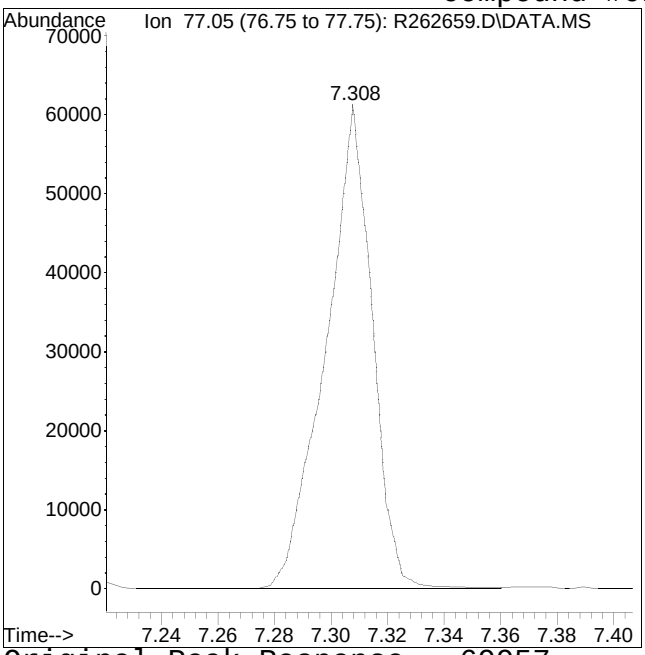
Manual Peak Response = 17108 M6

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

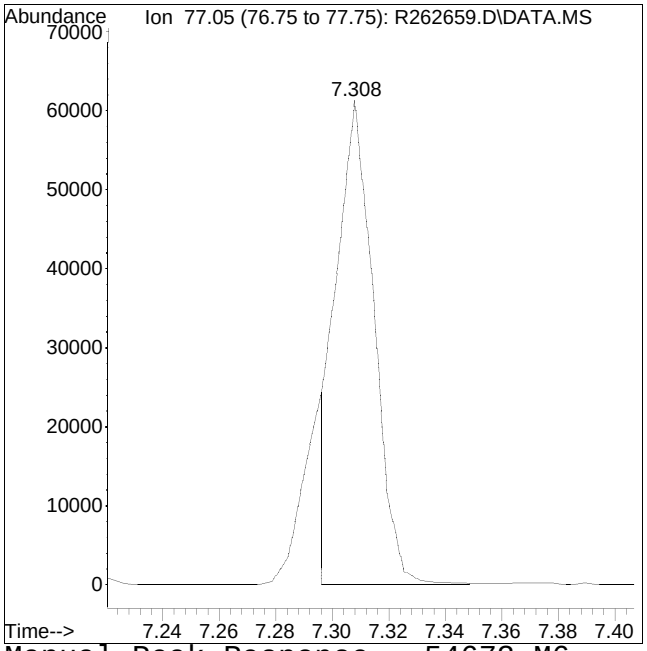
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #92: bromobenzene



Original Peak Response = 69957



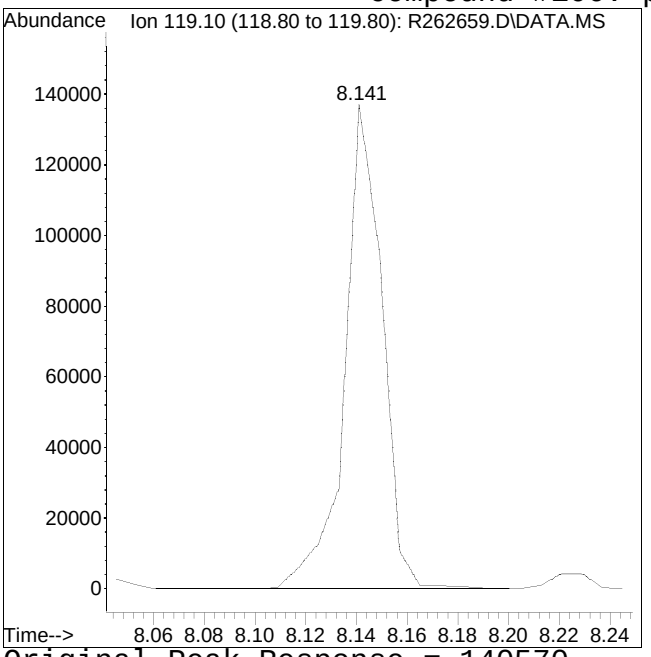
Manual Peak Response = 54673 M6

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

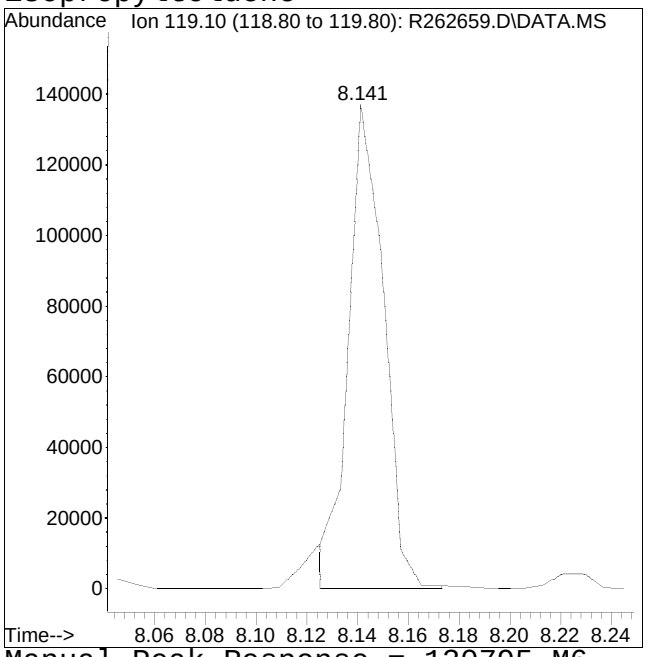
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 12:16 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 140570



Manual Peak Response = 130795 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\04\0402T_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:16:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	196652	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 101.79%			
43) 1,4-difluorobenzene	4.365	114	852892	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 102.21%			
67) chlorobenzene-D5	6.449	54	104147	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 103.36%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	193850	9.706	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.06%			
69) toluene-D8	5.541	98	702092	9.669	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.69%			
90) bromofluorobenzene	7.214	95	423869	9.740	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.40%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	39719M6	4.466	ppbV	
3) propylene	2.002	41	54876	5.057	ppbV	93
4) propane	2.008	29	32534	5.282	ppbV #	64
5) dichlorodifluoromethane	2.024	85	202882	4.969	ppbV	100
6) chloromethane	2.074	50	58589	4.959	ppbV	99
7) Freon-114	2.107	85	213416	5.018	ppbV	98
8) methanol	2.123	31	64573M6	24.529	ppbV	
9) vinyl chloride	2.145	62	75021	5.035	ppbV	100
10) 1,3-butadiene	2.189	54	51527	5.063	ppbV	100
11) butane	2.206	43	86244	5.051	ppbV	97
12) acetaldehyde	2.112	29	126736	25.193	ppbV	99
13) bromomethane	2.272	94	78994	5.020	ppbV	98
14) chloroethane	2.327	64	41124	4.927	ppbV	93
15) ethanol	2.359	31	164405	26.201	ppbV	99
16) dichlorofluoromethane	2.354	67	176257	5.048	ppbV	98
17) vinyl bromide	2.432	106	80287	5.027	ppbV	96
18) acrolein	2.466	56	31177	4.787	ppbV	95
19) acetone	2.500	43	383742	25.084	ppbV	99
20) acetonitrile	2.426	41	56137	5.601	ppbV	99
21) trichlorofluoromethane	2.551	101	184214	4.916	ppbV	96
22) isopropyl alcohol	2.568	45	221362	13.356	ppbV	99
23) acrylonitrile	2.630	53	52502	4.513	ppbV	98
24) pentane	2.653	43	96342	4.367	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:16:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.653	31	50689	5.257	ppbV	93
26) 1,1-dichloroethene	2.727	61	121537	5.114	ppbV	97
27) tertiary butyl alcohol	2.736	59	141841	5.557	ppbV	99
28) methylene chloride	2.760	49	64495	5.073	ppbV	99
29) 3-chloropropene	2.798	41	64975	4.952	ppbV	99
30) carbon disulfide	2.846	76	200517	4.995	ppbV	97
31) Freon 113	2.846	101	160872	4.921	ppbV	99
32) trans-1,2-dichloroethene	3.062	61	93120	4.942	ppbV	97
33) 1,1-dichloroethane	3.129	63	125379	4.960	ppbV	97
34) MTBE	3.160	73	199266	5.028	ppbV	100
35) vinyl acetate	3.191	43	126361	4.867	ppbV	98
36) 2-butanone	3.279	43	137576	5.590	ppbV	99
37) cis-1,2-dichloroethene	3.441	61	105707	4.921	ppbV	97
38) Ethyl Acetate	3.553	61	30097M6	4.804	ppbV	
39) chloroform	3.561	83	171744	4.927	ppbV	99
40) Tetrahydrofuran	3.732	42	58895M6	4.859	ppbV	
41) 2,2-dichloropropane	3.576	77	141123	4.866	ppbV	99
42) 1,2-dichloroethane	3.868	62	100112	4.961	ppbV	98
44) hexane	3.546	57	113712	4.865	ppbV	99
45) diisopropyl ether	3.553	87	95927	4.899	ppbV	97
46) tert-butyl ethyl ether	3.771	59	241133	4.998	ppbV	99
48) 1,1,1-trichloroethane	3.982	97	173750	4.772	ppbV	97
49) 1,1-dichloropropene	4.120	75	132314	4.207	ppbV	96
50) benzene	4.186	78	274921	4.862	ppbV	100
51) thiophene	4.234	84	271247	4.841	ppbV	99
52) carbon tetrachloride	4.252	117	177659	4.704	ppbV	98
53) cyclohexane	4.309	56	117175	4.902	ppbV	99
54) tert-amyl methyl ether	4.488	73	255424	4.939	ppbV	97
55) dibromomethane	4.545	93	106958	4.916	ppbV	100
56) 1,2-dichloropropane	4.563	63	93299	4.994	ppbV	96
57) bromodichloromethane	4.658	83	175236	4.667	ppbV	99
58) 1,4-dioxane	4.686	88	61323	5.041	ppbV	93
59) trichloroethene	4.686	130	143475	4.890	ppbV	99
60) 2,2,4-trimethylpentane	4.724	57	368747	5.043	ppbV	99
61) methyl methacrylate	4.808	41	84319	4.661	ppbV	97
62) heptane	4.865	43	111575	4.852	ppbV	99
63) cis-1,3-dichloropropene	5.110	75	150944	4.892	ppbV	98
64) 4-methyl-2-pentanone	5.142	43	147930	4.835	ppbV	99
65) trans-1,3-dichloropropene	5.374	75	116197	4.719	ppbV	99
66) 1,1,2-trichloroethane	5.445	97	121676	4.772	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:16:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	352977	4.792	ppbV	100
70) 2-methylthiophene	5.613	97	428327	4.827	ppbV	99
71) 1,3-dichloropropane	5.605	76	158679	4.884	ppbV	98
72) 2-hexanone	5.749	43	138567	4.650	ppbV	98
73) 3-methylthiophene	5.701	97	456884	4.850	ppbV	99
74) dibromochloromethane	5.781	129	202471	4.673	ppbV	98
75) 1,2-dibromoethane	5.892	107	188349	4.749	ppbV	98
76) butyl acetate	6.092	73	42011	4.636	ppbV	90
77) octane	6.132	85	112668	4.696	ppbV	98
78) tetrachloroethene	6.140	166	190757	5.052	ppbV	97
79) 1,1,1,2-tetrachloroethane	6.466	131	148967	4.705	ppbV	98
80) chlorobenzene	6.471	112	295177	4.807	ppbV	98
81) ethylbenzene	6.673	91	461011	4.843	ppbV	99
82) 2-ethylthiophene	6.689	97	518935	4.865	ppbV	98
83) m+p-xylene	6.766	91	719307	9.633	ppbV	100
84) bromoform	6.766	173	201466	4.635	ppbV	99
85) styrene	6.940	104	286549	4.713	ppbV	100
86) 1,1,2,2-tetrachloroethane	6.981	83	260221	4.879	ppbV	99
87) o-xylene	6.987	91	355085	4.925	ppbV	99
88) 1,2,3-trichloropropane	7.045	75	181289	4.762	ppbV	99
89) nonane	7.156	43	166750	4.660	ppbV	98
91) isopropylbenzene	7.295	105	501451	4.737	ppbV	97
92) bromobenzene	7.307	77	235601M6	3.785	ppbV	
93) 2-chlorotoluene	7.515	126	138928	4.763	ppbV	99
94) n-propylbenzene	7.555	120	150932	4.787	ppbV	88
95) 4-chlorotoluene	7.563	126	143549	4.884	ppbV	94
96) 4-ethyl toluene	7.635	105	508415	4.826	ppbV	99
97) 1,3,5-trimethylbenzene	7.683	105	427536	4.799	ppbV	100
98) tert-butylbenzene	7.891	119	484768	4.866	ppbV	99
99) 1,2,4-trimethylbenzene	7.899	105	437380	4.830	ppbV	99
100) decane	8.002	57	232439	4.847	ppbV	99
101) Benzyl Chloride	7.954	91	339297	4.530	ppbV	100
102) 1,3-dichlorobenzene	7.954	146	319440	4.790	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	324436	4.872	ppbV	99
104) sec-butylbenzene	8.042	105	650515	4.902	ppbV	99
105) 1,2,3-trimethylbenzene	8.122	105	468702	4.842	ppbV	99
106) p-isopropyltoluene	8.138	119	538672M6	4.203	ppbV	
107) 1,2-dichlorobenzene	8.178	146	309257	4.722	ppbV	98
108) n-butylbenzene	8.386	91	503429	4.785	ppbV	93
109) indan	8.226	117	375410	4.774	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:16:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

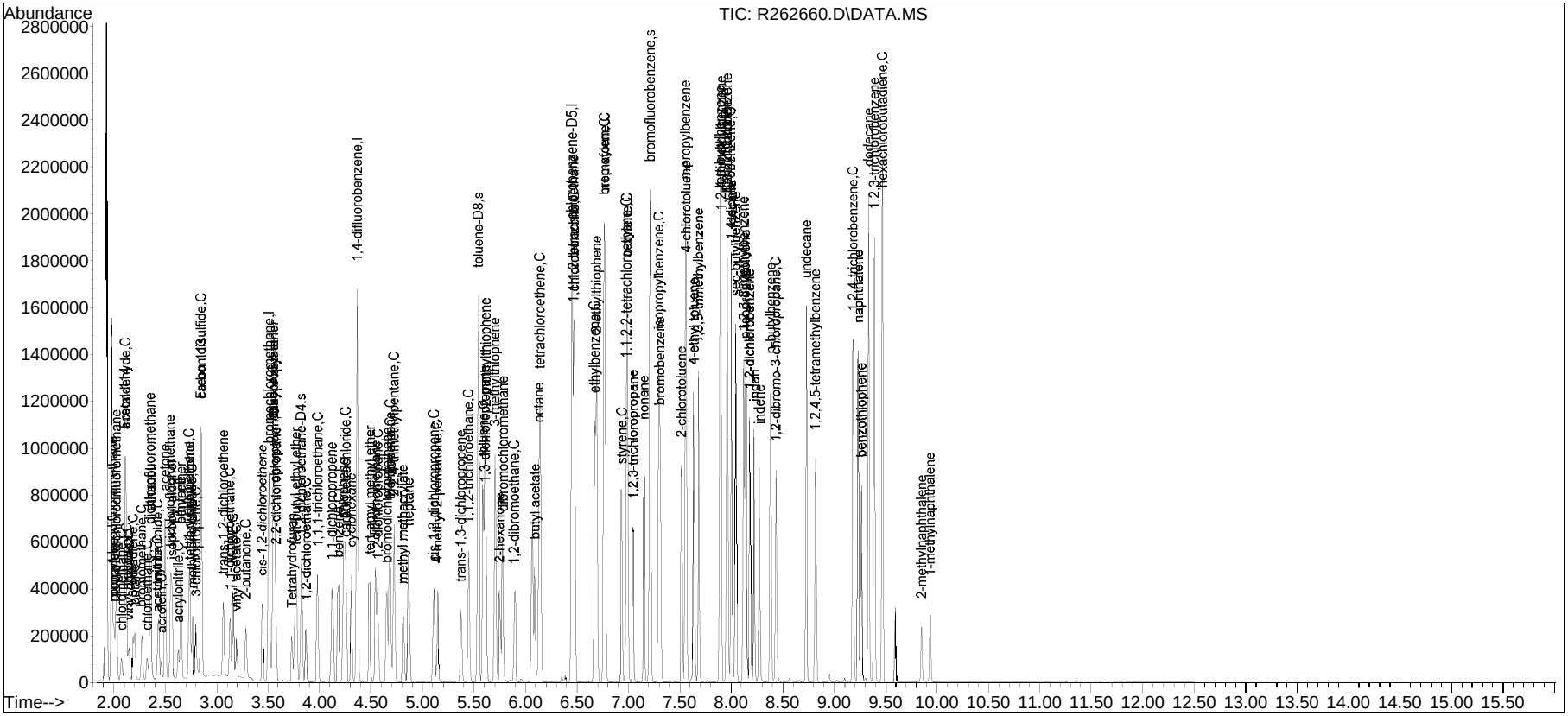
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	309081	4.831	ppbV	98
111) 1,2-dibromo-3-chloropr...	8.433	75	121983	4.581	ppbV	94
112) undecane	8.729	57	288800	4.735	ppbV	99
113) 1,2,4,5-tetramethylben...	8.817	119	292814	4.590	ppbV	98
114) dodecane	9.336	57	354202	4.660	ppbV	99
115) 1,2,4-trichlorobenzene	9.184	180	306251	4.691	ppbV	99
116) naphthalene	9.236	128	698405	4.580	ppbV	99
117) 1,2,3-trichlorobenzene	9.388	180	347302	4.982	ppbV	97
118) benzothiophene	9.265	134	378211	4.429	ppbV	99
119) hexachlorobutadiene	9.464	225	257360	4.920	ppbV	99
120) 2-methylnaphthalene	9.850	142	69384	4.208	ppbV	99
121) 1-methylnaphthalene	9.932	142	91559	4.450	ppbV	98

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

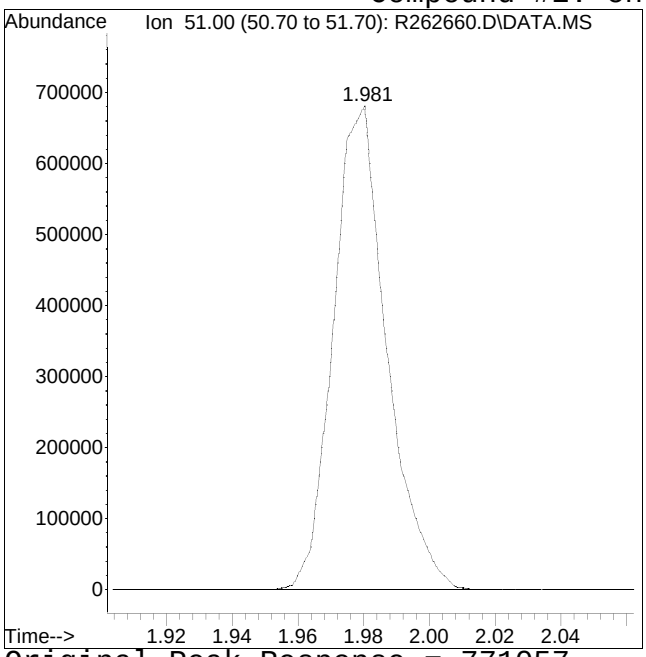
Quant Time: Apr 03 12:16:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



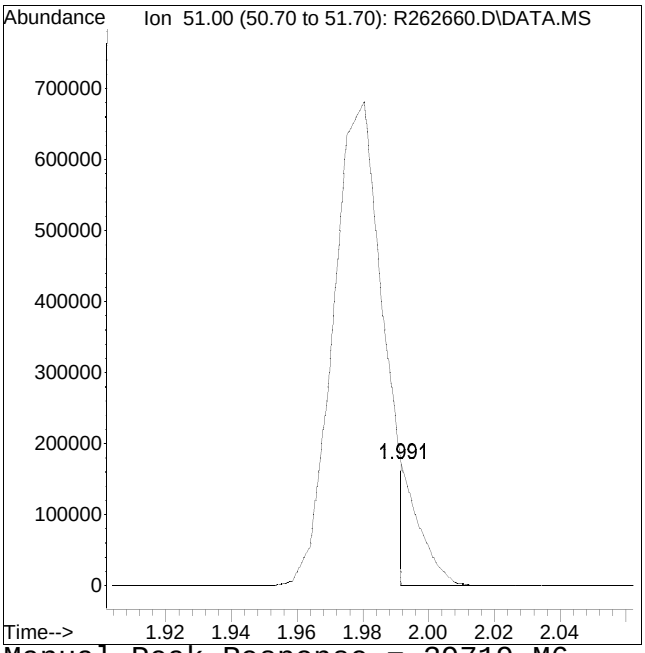
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 771057



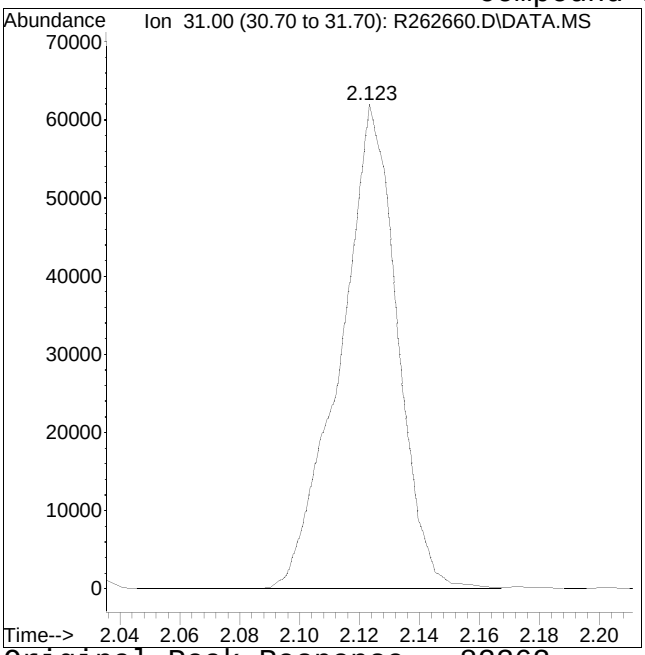
Manual Peak Response = 39719 M6

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

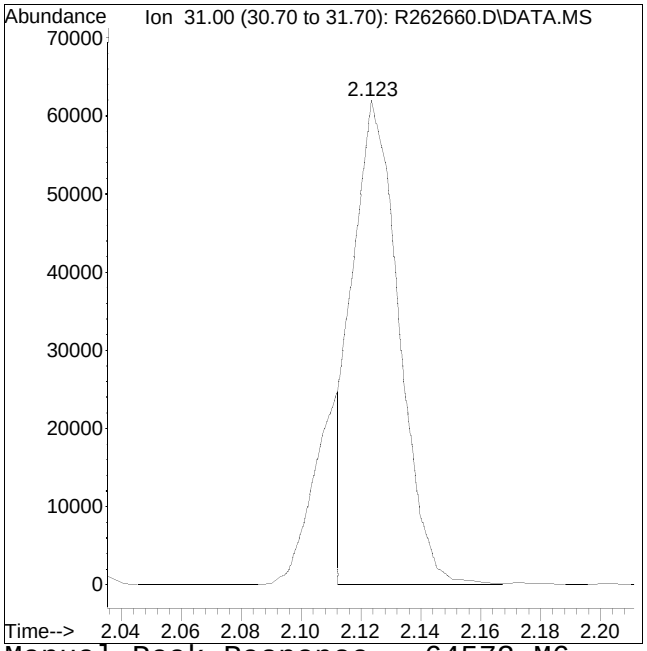
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #8: methanol



Original Peak Response = 82362



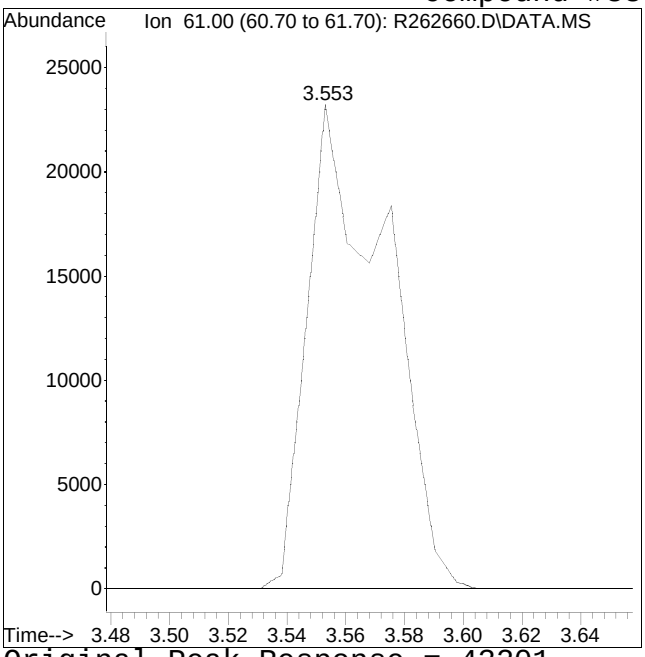
Manual Peak Response = 64573 M6

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

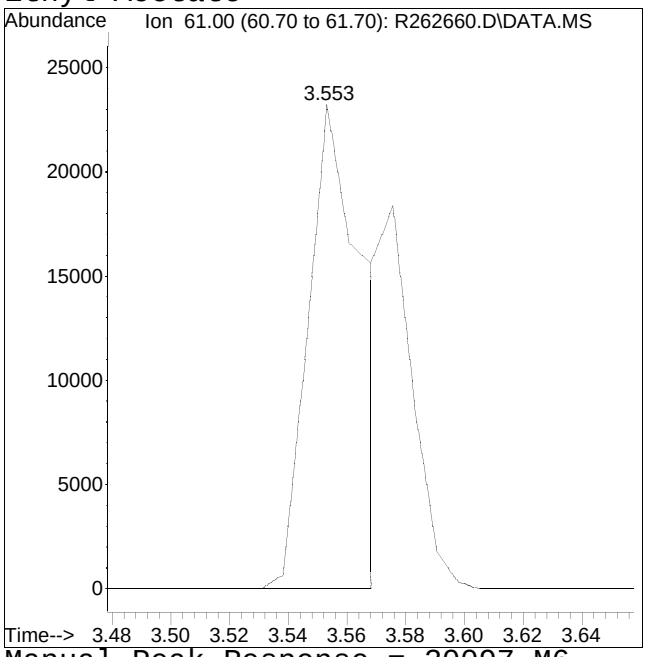
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #38: Ethyl Acetate



Original Peak Response = 43201



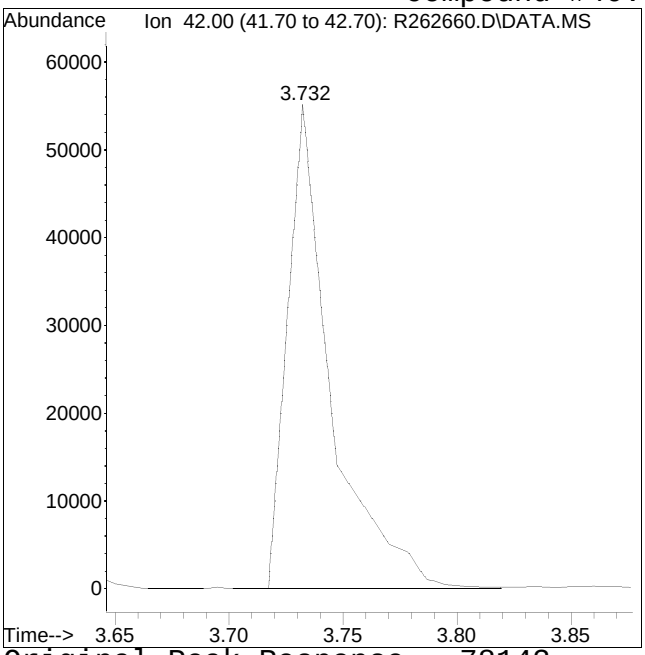
Manual Peak Response = 30097 M6

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

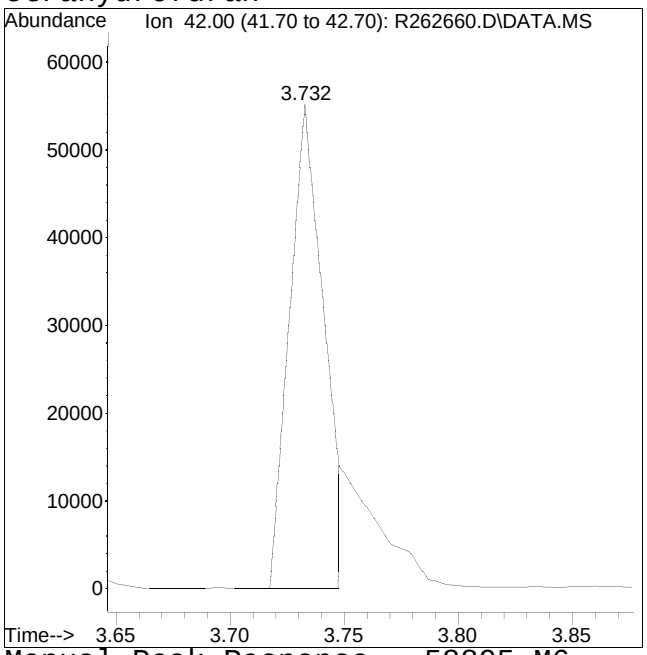
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 78143



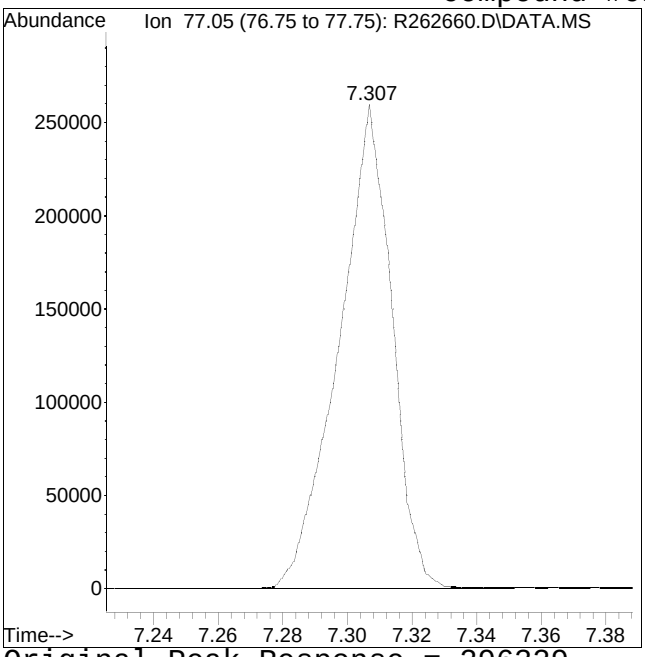
Manual Peak Response = 58895 M6

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

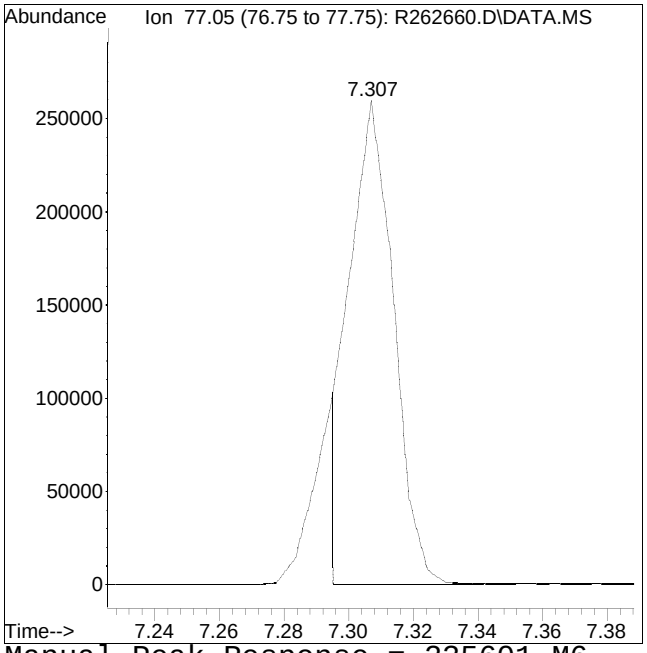
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #92: bromobenzene



Original Peak Response = 296329



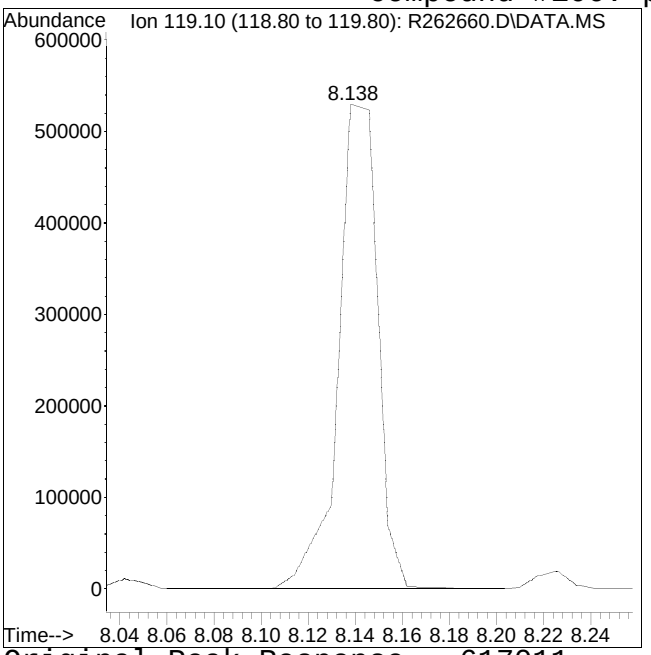
Manual Peak Response = 235601 M6

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

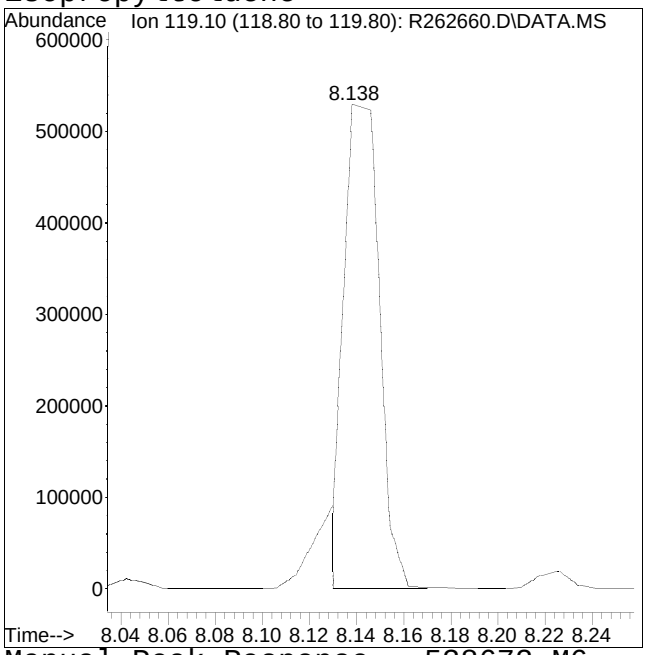
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 12:16 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 617011



Manual Peak Response = 538672 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\04\0402T_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:07:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.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\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	193196	10.000	ppbV	# 0.00
Standard Area = 193196			Recovery = 100.00%			
43) 1,4-difluorobenzene	4.365	114	834490	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 100.00%			
67) chlorobenzene-D5	6.449	54	100761	10.000	ppbV	# 0.00
Standard Area = 100761			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	195409	7.351	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 73.51%			
69) toluene-D8	5.541	98	702548	12.757	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 127.57%			
90) bromofluorobenzene	7.214	95	421041	12.629	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.29%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	87364M6	13.571	ppbV	
3) propylene	2.002	41	106614	24.323	ppbV	90
4) propane	2.013	29	60510	18.907	ppbV	93
5) dichlorodifluoromethane	2.024	85	401099	11.713	ppbV	99
6) chloromethane	2.074	50	116080	9.743	ppbV	97
7) Freon-114	2.107	85	417815	9.128	ppbV	96
8) methanol	2.123	31	129312M6	42.042	ppbV	
9) vinyl chloride	2.145	62	146376	9.511	ppbV	97
10) 1,3-butadiene	2.189	54	99985	10.947	ppbV	89
11) butane	2.206	43	167747	9.127	ppbV	95
12) acetaldehyde	2.112	29	247105	32.477	ppbV #	76
13) bromomethane	2.272	94	154593	9.547	ppbV	100
14) chloroethane	2.327	64	82004	9.175	ppbV	96
15) ethanol	2.359	31	308221	35.262	ppbV	86
16) dichlorofluoromethane	2.354	67	343059	8.386	ppbV #	98
17) vinyl bromide	2.438	106	156898	8.650	ppbV	94
18) acrolein	2.466	56	63989	7.846	ppbV #	87
19) acetone	2.500	43	751473	32.695	ppbV #	87
20) acetonitrile	2.432	41	98461	6.880	ppbV	96
21) trichlorofluoromethane	2.557	101	368112	6.135	ppbV	99
22) isopropyl alcohol	2.568	45	407071	14.794	ppbV #	97
23) acrylonitrile	2.630	53	114300	6.354	ppbV	97
24) pentane	2.653	43	216738	5.767	ppbV #	94

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:07:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.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\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.658	31	94728	5.057	ppbV	#	73
26) 1,1-dichloroethene	2.727	61	233498	5.408	ppbV	#	88
27) tertiary butyl alcohol	2.736	59	250770	5.138	ppbV	#	90
28) methylene chloride	2.760	49	124899	4.973	ppbV	#	75
29) 3-chloropropene	2.798	41	128905	5.749	ppbV	#	83
30) carbon disulfide	2.846	76	394402	7.016	ppbV	#	87
31) Freon 113	2.846	101	321158	6.353	ppbV		94
32) trans-1,2-dichloroethene	3.062	61	185108	6.096	ppbV	#	82
33) 1,1-dichloroethane	3.133	63	248331	5.612	ppbV		100
34) MTBE	3.160	73	389325	6.738	ppbV		95
35) vinyl acetate	3.195	43	255052	6.308	ppbV	#	88
36) 2-butanone	3.279	43	241770	11.325	ppbV		95
37) cis-1,2-dichloroethene	3.449	61	211015	11.285	ppbV		90
38) Ethyl Acetate	3.553	61	61544M5	13.936	ppbV		
39) chloroform	3.568	83	342424	10.581	ppbV	#	97
40) Tetrahydrofuran	3.732	42	119083M6	11.644	ppbV		
41) 2,2-dichloropropane	3.576	77	284904	11.393	ppbV	#	86
42) 1,2-dichloroethane	3.868	62	198247	9.593	ppbV		99
44) hexane	3.546	57	228678	10.423	ppbV		85
45) diisopropyl ether	3.553	87	191584	9.980	ppbV		81
46) tert-butyl ethyl ether	3.770	59	472092	9.373	ppbV		99
48) 1,1,1-trichloroethane	3.982	97	356260	8.462	ppbV		91
49) 1,1-dichloropropene	4.120	75	307715	10.146	ppbV		94
50) benzene	4.186	78	553267	9.974	ppbV		99
51) thiophene	4.234	84	548201	8.700	ppbV	#	90
52) carbon tetrachloride	4.252	117	369551	8.617	ppbV		98
53) cyclohexane	4.309	56	233883	10.610	ppbV		89
54) tert-amyl methyl ether	4.479	73	506015	10.314	ppbV		96
55) dibromomethane	4.545	93	212882	8.690	ppbV		89
56) 1,2-dichloropropane	4.563	63	182792	9.175	ppbV	#	91
57) bromodichloromethane	4.658	83	367386	9.877	ppbV		97
58) 1,4-dioxane	4.686	88	119030	10.562	ppbV		93
59) trichloroethene	4.686	130	287091	10.163	ppbV		97
60) 2,2,4-trimethylpentane	4.724	57	715375M6	10.398	ppbV		
61) methyl methacrylate	4.808	41	176990	9.079	ppbV	#	87
62) heptane	4.865	43	224975	10.452	ppbV		92
63) cis-1,3-dichloropropene	5.110	75	301915	9.940	ppbV	#	90
64) 4-methyl-2-pentanone	5.142	43	299348	9.984	ppbV	#	90
65) trans-1,3-dichloropropene	5.374	75	240936	9.913	ppbV	#	93
66) 1,1,2-trichloroethane	5.445	97	249460	10.164	ppbV	#	88

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:07:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.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\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	5.589	91	712594	13.335	ppbV		97
70)	2-methylthiophene	5.613	97	858527M3	11.776	ppbV		
71)	1,3-dichloropropane	5.605	76	314358	12.079	ppbV	#	90
72)	2-hexanone	5.749	43	288324	13.082	ppbV	#	88
73)	3-methylthiophene	5.701	97	911483	11.749	ppbV	#	96
74)	dibromochloromethane	5.781	129	419236	13.961	ppbV		99
75)	1,2-dibromoethane	5.900	107	383733	12.949	ppbV		100
76)	butyl acetate	6.092	73	87678	13.887	ppbV		85
77)	octane	6.132	85	232123	14.019	ppbV		83
78)	tetrachloroethene	6.140	166	365340	12.739	ppbV		94
79)	1,1,1,2-tetrachloroethane	6.466	131	306317	12.642	ppbV		97
80)	chlorobenzene	6.471	112	594071	13.273	ppbV		98
81)	ethylbenzene	6.673	91	921058	13.700	ppbV		97
82)	2-ethylthiophene	6.689	97	1031996	11.509	ppbV	#	96
83)	m+p-xylene	6.766	91	1444939	26.768	ppbV		96
84)	bromoform	6.766	173	420513	13.886	ppbV		99
85)	styrene	6.940	104	588256	14.816	ppbV		98
86)	1,1,2,2-tetrachloroethane	6.981	83	515986	12.153	ppbV		100
87)	o-xylene	6.987	91	697496	12.870	ppbV		97
88)	1,2,3-trichloropropane	7.045	75	368360	12.152	ppbV	#	91
89)	nonane	7.156	43	346212	12.474	ppbV		89
91)	isopropylbenzene	7.295	105	1024211	13.866	ppbV		99
92)	bromobenzene	7.307	77	602222	15.559	ppbV		95
93)	2-chlorotoluene	7.515	126	282198	13.633	ppbV		95
94)	n-propylbenzene	7.555	120	305049	13.229	ppbV		91
95)	4-chlorotoluene	7.563	126	284346	13.061	ppbV		93
96)	4-ethyl toluene	7.635	105	1019307	15.845	ppbV		98
97)	1,3,5-trimethylbenzene	7.683	105	861847	14.199	ppbV		96
98)	tert-butylbenzene	7.891	119	963813	13.902	ppbV		98
99)	1,2,4-trimethylbenzene	7.899	105	876162	13.622	ppbV		97
100)	decane	8.002	57	463930	12.601	ppbV		92
101)	Benzyl Chloride	7.954	91	724645	18.345	ppbV		96
102)	1,3-dichlorobenzene	7.954	146	645179	13.197	ppbV		97
103)	1,4-dichlorobenzene	7.994	146	644287	12.907	ppbV		95
104)	sec-butylbenzene	8.042	105	1283851	14.041	ppbV		99
105)	1,2,3-trimethylbenzene	8.122	105	936513	13.934	ppbV		97
106)	p-isopropyltoluene	8.138	119	1073323M6	12.547	ppbV		
107)	1,2-dichlorobenzene	8.178	146	633660	13.461	ppbV		95
108)	n-butylbenzene	8.378	91	1017817	13.607	ppbV		98
109)	indan	8.226	117	760812	12.707	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 12:07:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.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\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

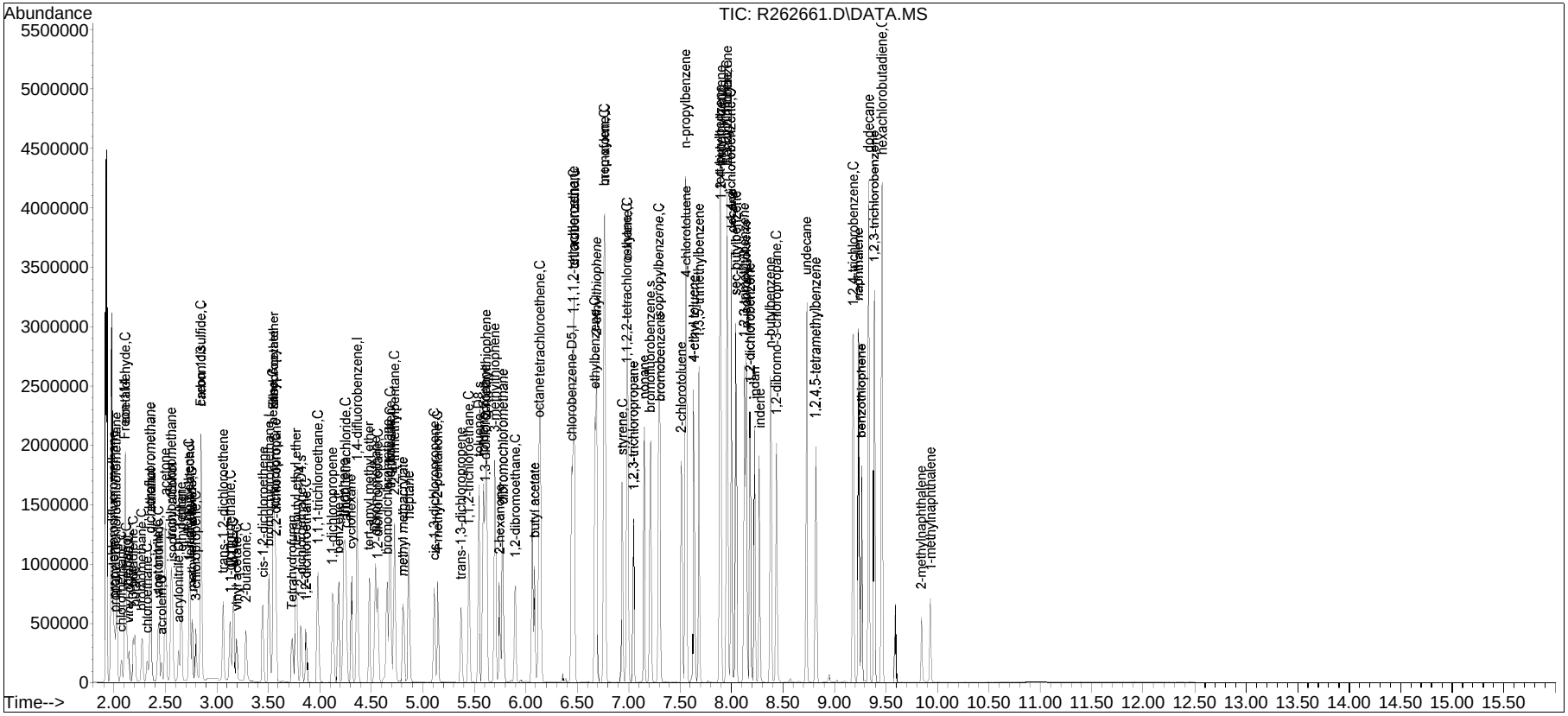
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.274	115	618996	12.979	ppbV		96
111) 1,2-dibromo-3-chloropr...	8.433	75	257628	11.953	ppbV	#	79
112) undecane	8.729	57	590145	13.557	ppbV		92
113) 1,2,4,5-tetramethylben...	8.817	119	617163	19.464	ppbV		98
114) dodecane	9.336	57	735423	15.189	ppbV		89
115) 1,2,4-trichlorobenzene	9.184	180	631593	14.261	ppbV	#	93
116) naphthalene	9.230	128	1475325	15.902	ppbV		99
117) 1,2,3-trichlorobenzene	9.388	180	674454	14.916	ppbV		96
118) benzothiophene	9.265	134	826105	19.084	ppbV	#	98
119) hexachlorobutadiene	9.464	225	506067	12.956	ppbV		91
120) 2-methylnaphthalene	9.844	142	159512	19.433	ppbV		97
121) 1-methylnaphthalene	9.932	142	199051	17.813	ppbV		97

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049329
ALS Vial : 7 Sample Multiplier: 1

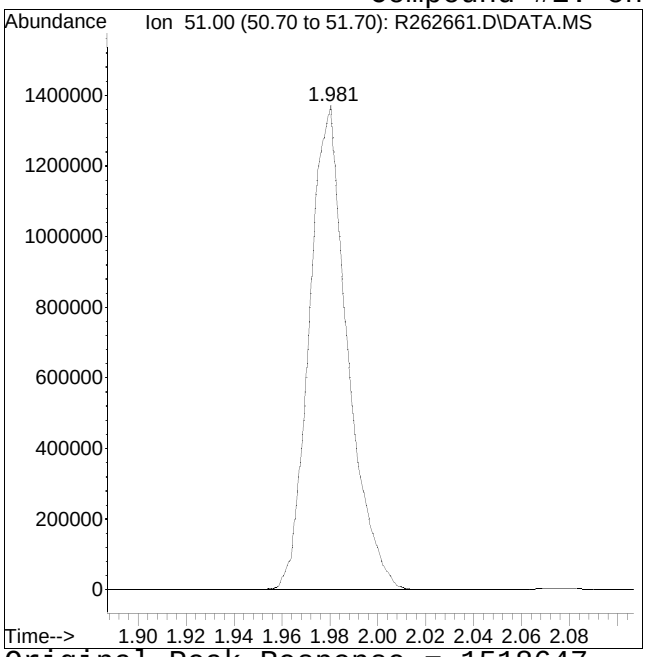
Quant Time: Apr 03 12:07:05 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Mar 17 14:24:08 2025
Response via : Initial Calibration



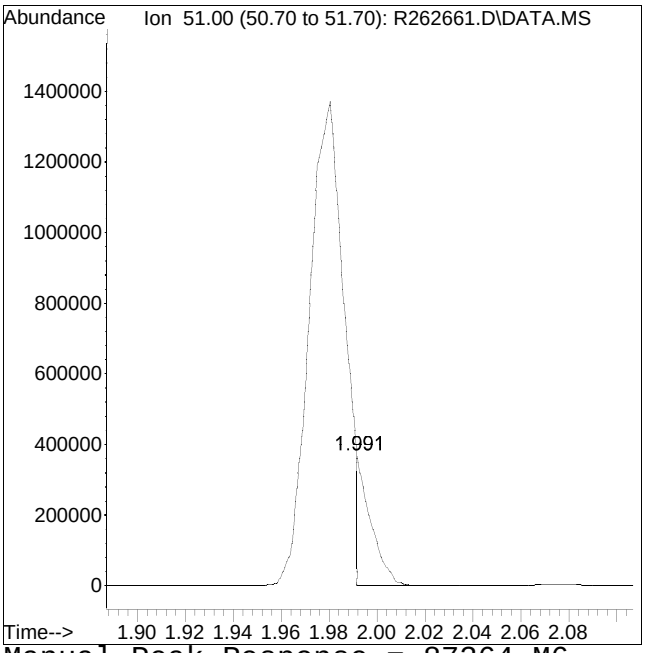
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 1518647



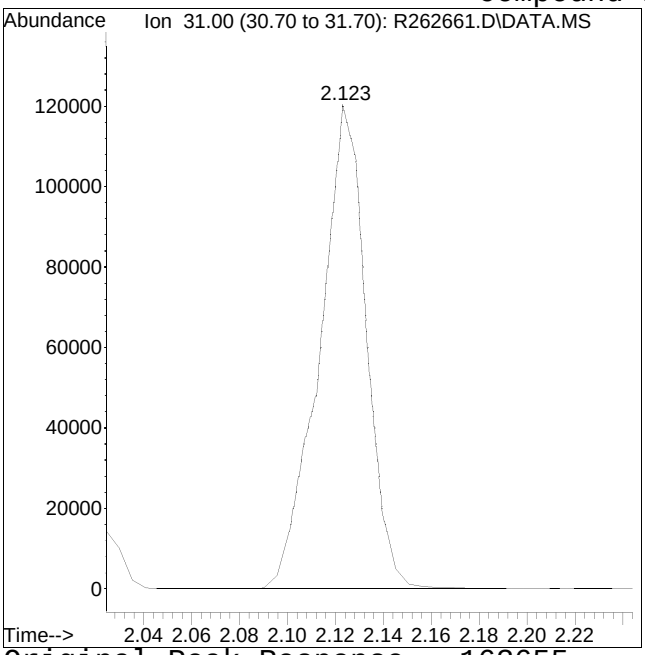
Manual Peak Response = 87364 M6

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

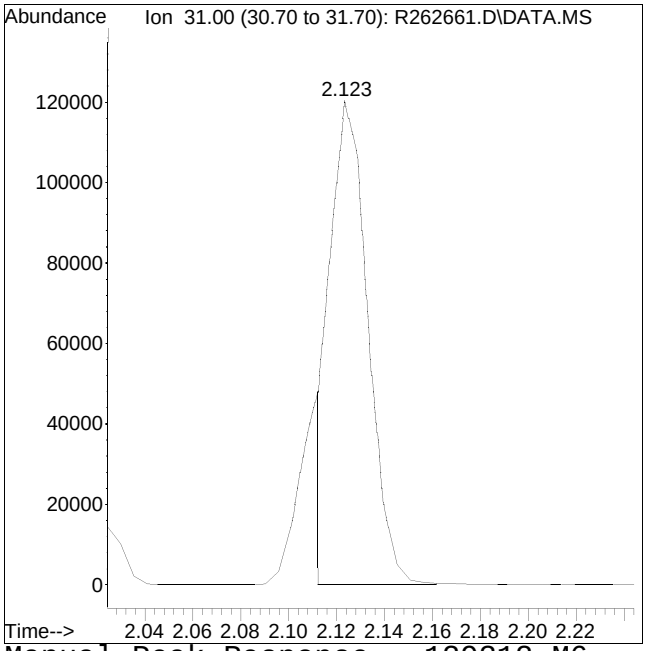
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #8: methanol



Original Peak Response = 163655



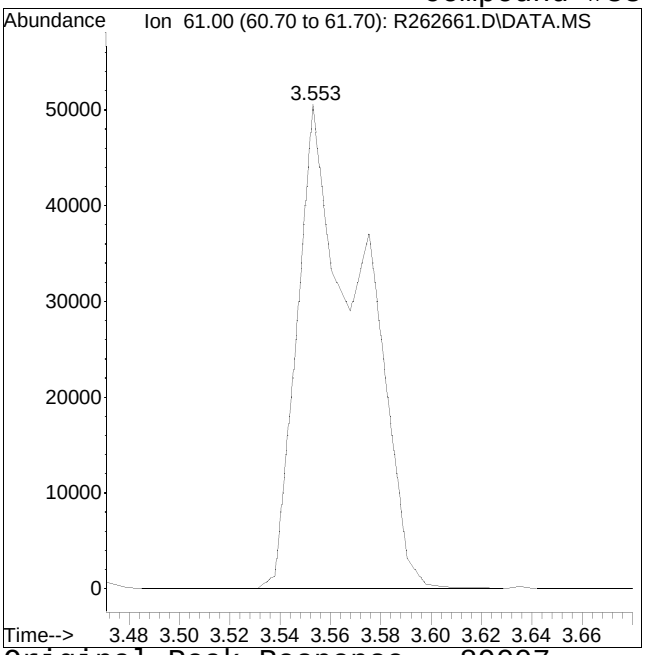
Manual Peak Response = 129312 M6

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

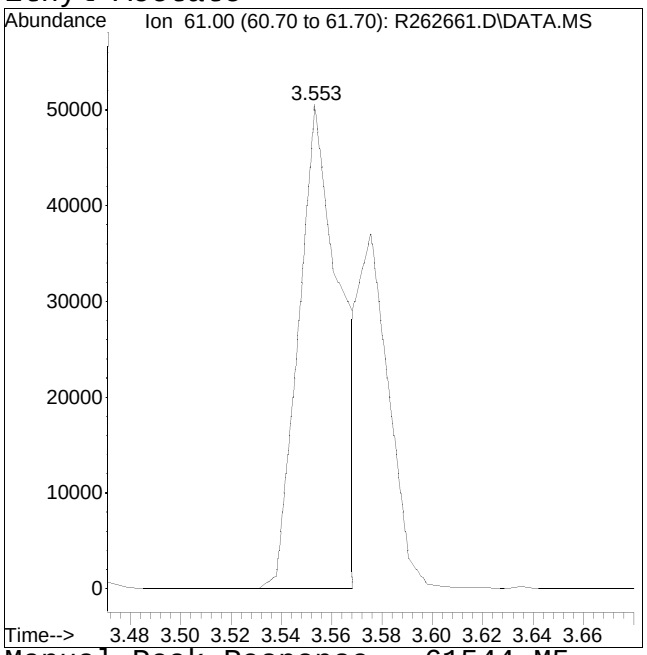
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #38: Ethyl Acetate



Original Peak Response = 89007



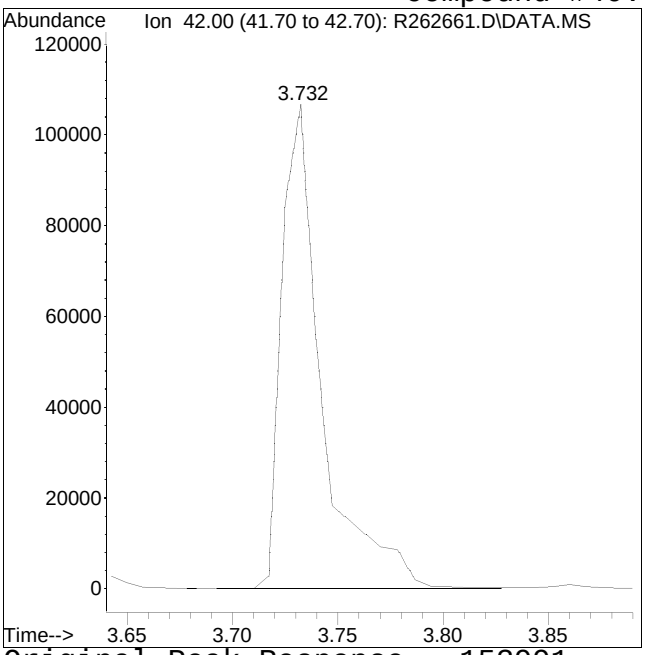
Manual Peak Response = 61544 M5

M5 = Manual integration over a retention time range required, i.e. for hydrocarbon range methods.

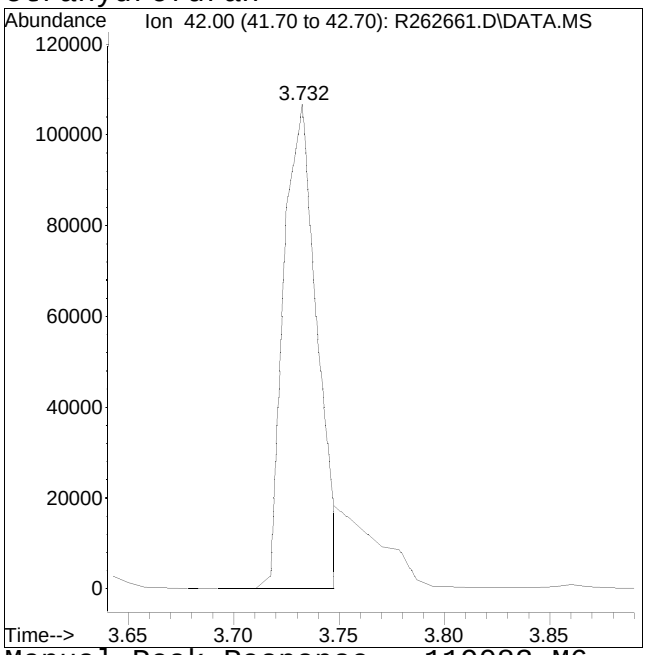
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 153991



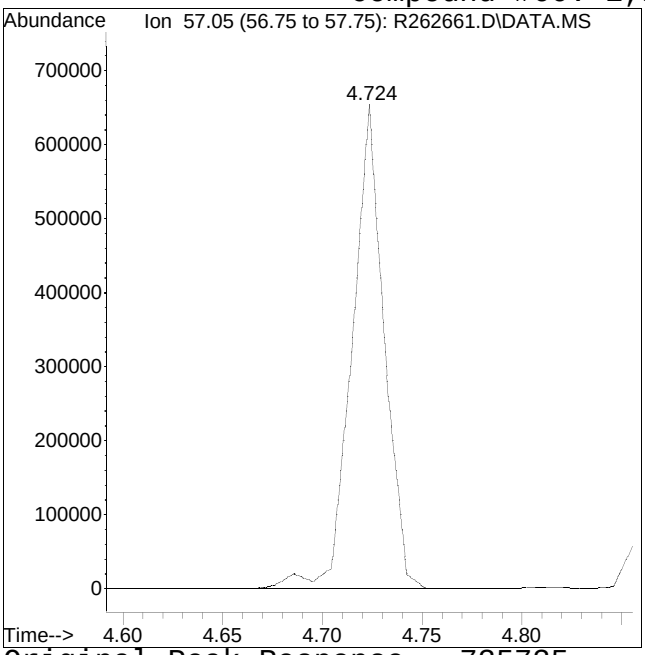
Manual Peak Response = 119083 M6

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

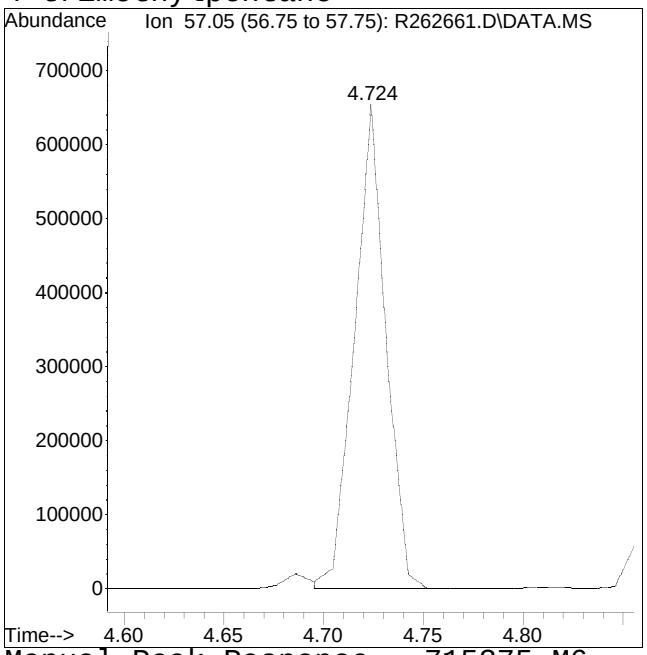
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 735735



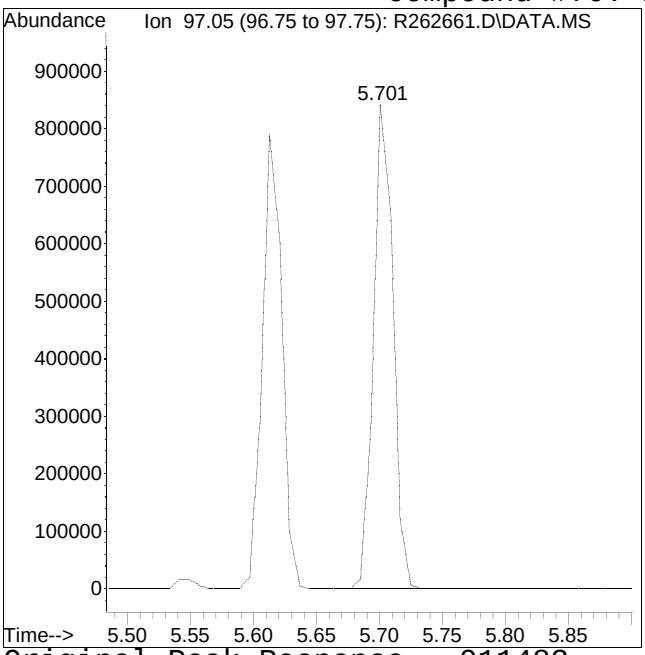
Manual Peak Response = 715375 M6

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

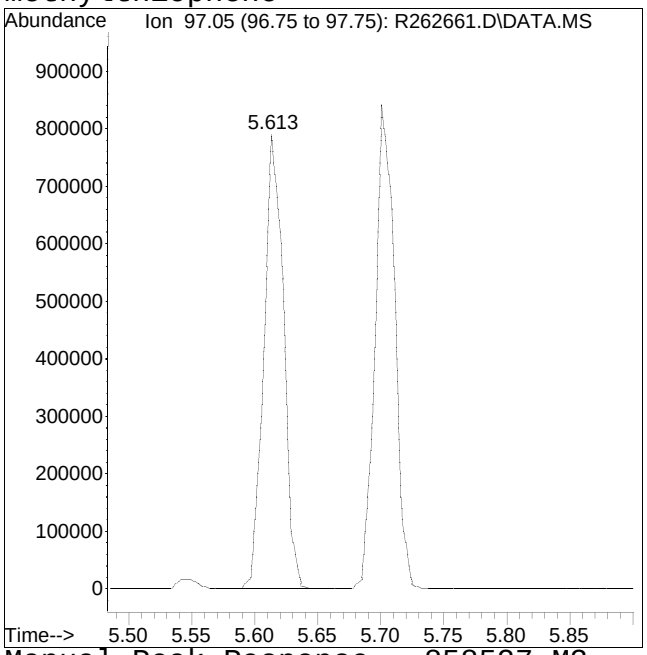
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #70: 2-methylthiophene



Original Peak Response = 911483



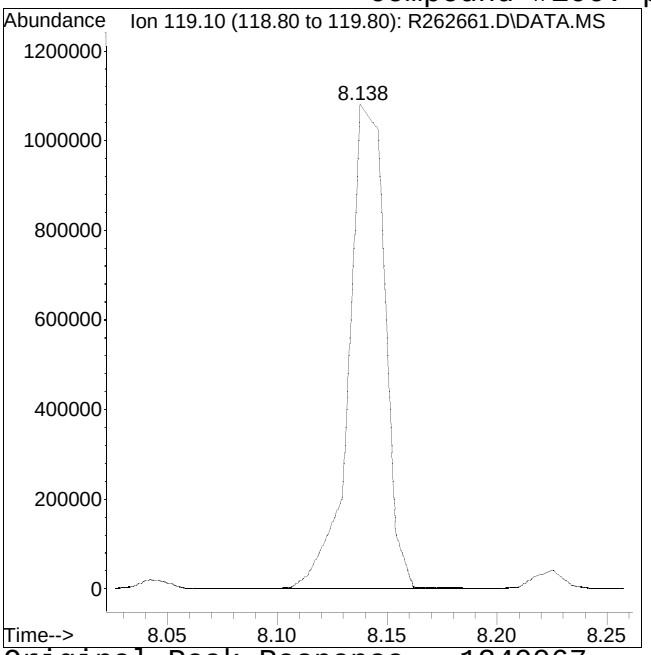
Manual Peak Response = 858527 M3

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.

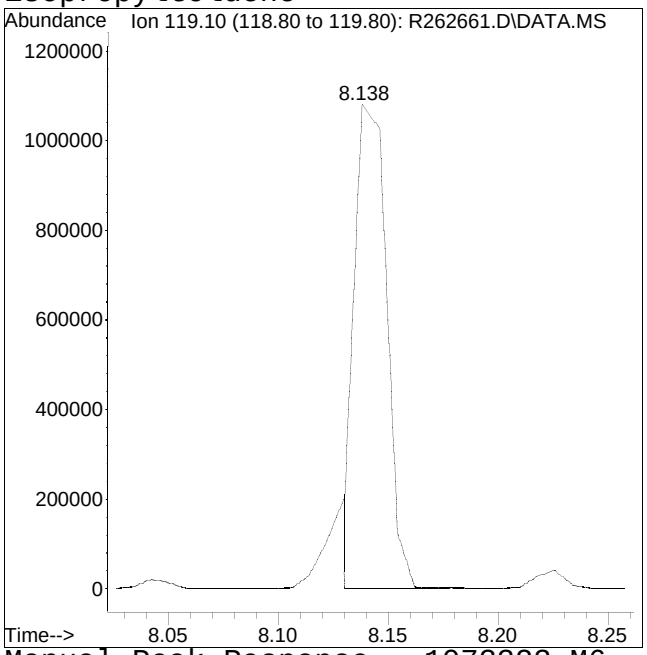
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 12:07 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 1240067



Manual Peak Response = 1073323 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\04\0402T_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	196820	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 101.88%			
43) 1,4-difluorobenzene	4.366	114	835856	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 100.16%			
67) chlorobenzene-D5	6.449	54	101711	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 100.94%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.828	65	190731	9.745	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.45%			
69) toluene-D8	5.541	98	698585	9.851	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.51%			
90) bromofluorobenzene	7.214	95	417993	9.835	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.35%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.992	51	194163M6	21.815	ppbV	
3) propylene	2.003	41	206432	19.006	ppbV	98
4) propane	2.014	29	119393	19.368	ppbV	98
5) dichlorodifluoromethane	2.025	85	766434	18.757	ppbV	100
6) chloromethane	2.079	50	221584	18.737	ppbV	99
7) Freon-114	2.112	85	811888	19.074	ppbV	93
8) methanol	2.123	31	259713M6	98.572	ppbV	
9) vinyl chloride	2.145	62	288589	19.353	ppbV	98
10) 1,3-butadiene	2.189	54	194913	19.135	ppbV	99
11) butane	2.206	43	331814	19.416	ppbV	99
12) acetaldehyde	2.112	29	481503	95.635	ppbV	99
13) bromomethane	2.277	94	303674	19.282	ppbV	98
14) chloroethane	2.332	64	161366	19.315	ppbV	96
15) ethanol	2.360	31	636877	101.413	ppbV	99
16) dichlorofluoromethane	2.360	67	674494	19.299	ppbV	100
17) vinyl bromide	2.438	106	311971	19.518	ppbV	96
18) acrolein	2.466	56	122549	18.799	ppbV	98
19) acetone	2.506	43	1462351	95.507	ppbV	100
20) acetonitrile	2.432	41	188953	18.837	ppbV	97
21) trichlorofluoromethane	2.557	101	717259	19.126	ppbV	97
22) isopropyl alcohol	2.568	45	888096	53.538	ppbV	99
23) acrylonitrile	2.630	53	225986	19.407	ppbV	99
24) pentane	2.659	43	423774	19.192	ppbV	99

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.659	31	183087	18.972	ppbV	97
26) 1,1-dichloroethene	2.732	61	458597	19.279	ppbV	97
27) tertiary butyl alcohol	2.741	59	576027	22.547	ppbV	98
28) methylene chloride	2.765	49	246083	19.340	ppbV	98
29) 3-chloropropene	2.798	41	247908	18.878	ppbV	99
30) carbon disulfide	2.851	76	765564	19.053	ppbV	98
31) Freon 113	2.851	101	622919	19.039	ppbV	97
32) trans-1,2-dichloroethene	3.062	61	362887	19.243	ppbV	99
33) 1,1-dichloroethane	3.133	63	486411	19.227	ppbV	99
34) MTBE	3.164	73	770985	19.438	ppbV	99
35) vinyl acetate	3.195	43	523673	20.154	ppbV	98
36) 2-butanone	3.284	43	473676	19.231	ppbV	96
37) cis-1,2-dichloroethene	3.449	61	413809	19.249	ppbV	99
38) Ethyl Acetate	3.553	61	109536M6	17.470	ppbV	
39) chloroform	3.568	83	665823	19.086	ppbV	99
40) Tetrahydrofuran	3.733	42	236559M6	19.499	ppbV	
41) 2,2-dichloropropane	3.576	77	559693	19.283	ppbV	99
42) 1,2-dichloroethane	3.868	62	391052	19.362	ppbV	99
44) hexane	3.546	57	441983	19.296	ppbV	90
45) diisopropyl ether	3.553	87	380962	19.852	ppbV	99
46) tert-butyl ethyl ether	3.779	59	967488	20.460	ppbV	98
48) 1,1,1-trichloroethane	3.982	97	704582	19.745	ppbV	99
49) 1,1-dichloropropene	4.130	75	610460	19.806	ppbV	95
50) benzene	4.186	78	1079079	19.472	ppbV	100
51) thiophene	4.234	84	830793	15.130	ppbV	99
52) carbon tetrachloride	4.252	117	737615	19.927	ppbV	100
53) cyclohexane	4.309	56	453319	19.351	ppbV	99
54) tert-amyl methyl ether	4.488	73	1006350	19.855	ppbV	97
55) dibromomethane	4.545	93	418442	19.624	ppbV	97
56) 1,2-dichloropropane	4.563	63	363587	19.858	ppbV	100
57) bromodichloromethane	4.658	83	719382	19.549	ppbV	99
58) 1,4-dioxane	4.686	88	246866	20.706	ppbV	98
59) trichloroethene	4.686	130	569649	19.810	ppbV	97
60) 2,2,4-trimethylpentane	4.724	57	1396895M6	19.495	ppbV	
61) methyl methacrylate	4.809	41	342857	19.340	ppbV	99
62) heptane	4.865	43	439828	19.518	ppbV	98
63) cis-1,3-dichloropropene	5.110	75	600162	19.846	ppbV	99
64) 4-methyl-2-pentanone	5.142	43	568606	18.964	ppbV	99
65) trans-1,3-dichloropropene	5.374	75	478727	19.837	ppbV	98
66) 1,1,2-trichloroethane	5.445	97	483767	19.361	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	5.589	91	1389980	19.324	ppbV	100
70) 2-methylthiophene	5.613	97	1256135	14.495	ppbV	99
71) 1,3-dichloropropane	5.605	76	624894	19.693	ppbV	99
72) 2-hexanone	5.749	43	559962	19.240	ppbV	99
73) 3-methylthiophene	5.701	97	1351385	14.688	ppbV	100
74) dibromochloromethane	5.781	129	836287	19.762	ppbV	99
75) 1,2-dibromoethane	5.900	107	760553	19.635	ppbV	99
76) butyl acetate	6.092	73	168511	19.040	ppbV	97
77) octane	6.132	85	440153	18.785	ppbV	96
78) tetrachloroethene	6.148	166	736315	19.966	ppbV	92
79) 1,1,1,2-tetrachloroethane	6.471	131	607774	19.656	ppbV	99
80) chlorobenzene	6.471	112	1154580	19.254	ppbV	100
81) ethylbenzene	6.673	91	1789207	19.244	ppbV	99
82) 2-ethylthiophene	6.689	97	1512559	14.520	ppbV	99
83) m+p-xylene	6.766	91	2782082	38.148	ppbV	99
84) bromoform	6.766	173	833024	19.625	ppbV	99
85) styrene	6.940	104	1153618	19.428	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	1008151	19.356	ppbV	99
87) o-xylene	6.987	91	1368677	19.439	ppbV	100
88) 1,2,3-trichloropropane	7.045	75	719782	19.358	ppbV	98
89) nonane	7.156	43	665751	19.050	ppbV	97
91) isopropylbenzene	7.295	105	2008932	19.431	ppbV	99
92) bromobenzene	7.307	77	918510M6	15.110	ppbV	
93) 2-chlorotoluene	7.523	126	552875	19.409	ppbV	88
94) n-propylbenzene	7.555	120	596612	19.375	ppbV	97
95) 4-chlorotoluene	7.563	126	555695	19.360	ppbV	95
96) 4-ethyl toluene	7.635	105	1987978	19.321	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	1666992	19.161	ppbV	99
98) tert-butylbenzene	7.891	119	1861031	19.129	ppbV	99
99) 1,2,4-trimethylbenzene	7.899	105	1697326	19.191	ppbV	97
100) decane	8.002	57	911349	19.461	ppbV	99
101) Benzyl Chloride	7.955	91	1470679	20.106	ppbV	98
102) 1,3-dichlorobenzene	7.955	146	1276231	19.596	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	1236114	19.007	ppbV	99
104) sec-butylbenzene	8.042	105	2496735	19.266	ppbV	98
105) 1,2,3-trimethylbenzene	8.122	105	1833317	19.393	ppbV	100
106) p-isopropyltoluene	8.146	119	2076680M6	16.590	ppbV	
107) 1,2-dichlorobenzene	8.178	146	1218808	19.055	ppbV	99
108) n-butylbenzene	8.378	91	1969681	19.171	ppbV	100
109) indan	8.226	117	1615681	21.038	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

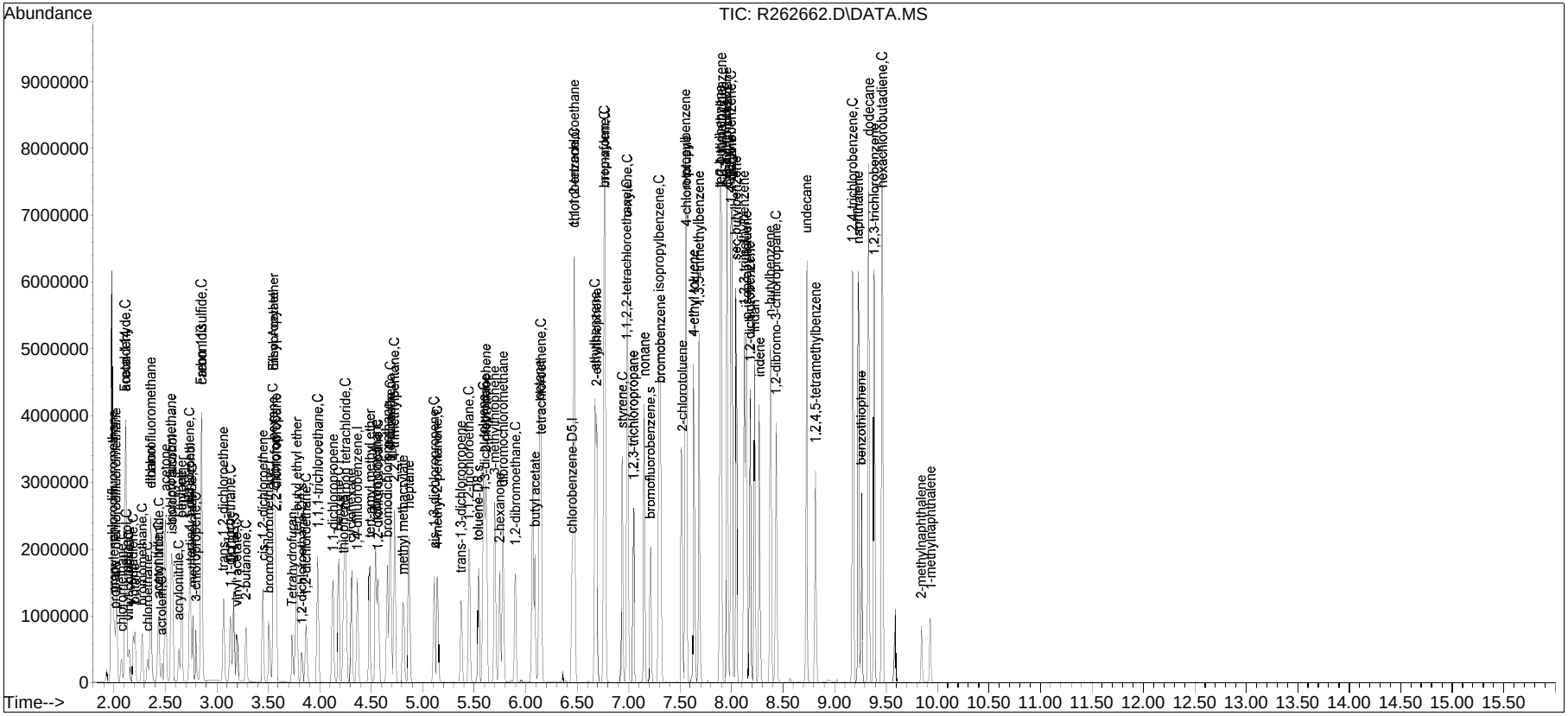
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	1316463	21.069	ppbV	100
111) 1,2-dibromo-3-chloropr...	8.433	75	515673	19.829	ppbV	99
112) undecane	8.729	57	1139984	19.137	ppbV	100
113) 1,2,4,5-tetramethylben...	8.817	119	947501	15.209	ppbV	98
114) dodecane	9.336	57	1397746	18.828	ppbV	100
115) 1,2,4-trichlorobenzene	9.178	180	1247812	19.572	ppbV	95
116) naphthalene	9.230	128	2846294	19.112	ppbV	100
117) 1,2,3-trichlorobenzene	9.388	180	1291090	18.964	ppbV	99
118) benzothiophene	9.265	134	1275535	15.296	ppbV	99
119) hexachlorobutadiene	9.464	225	987617	19.333	ppbV	99
120) 2-methylnaphthalene	9.844	142	238905	14.837	ppbV	99
121) 1-methylnaphthalene	9.932	142	288101	14.339	ppbV	99

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

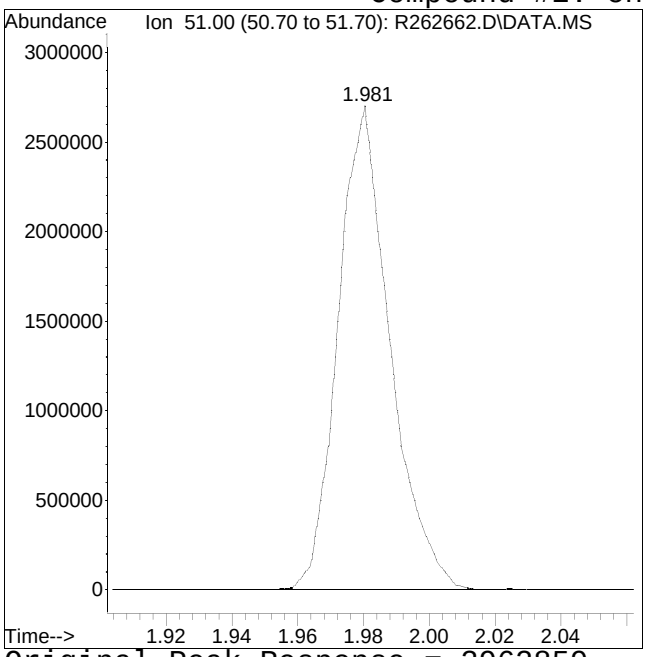
Quant Time: Apr 03 12:16:24 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



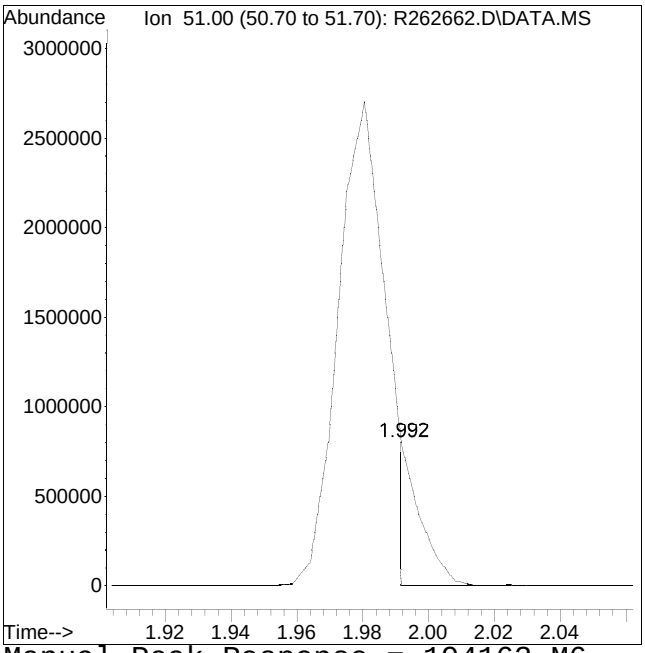
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 2962859



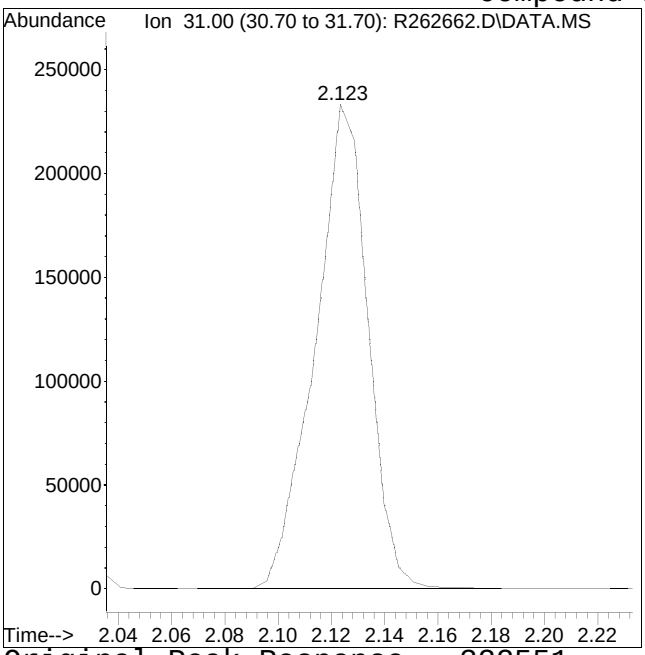
Manual Peak Response = 194163 M6

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

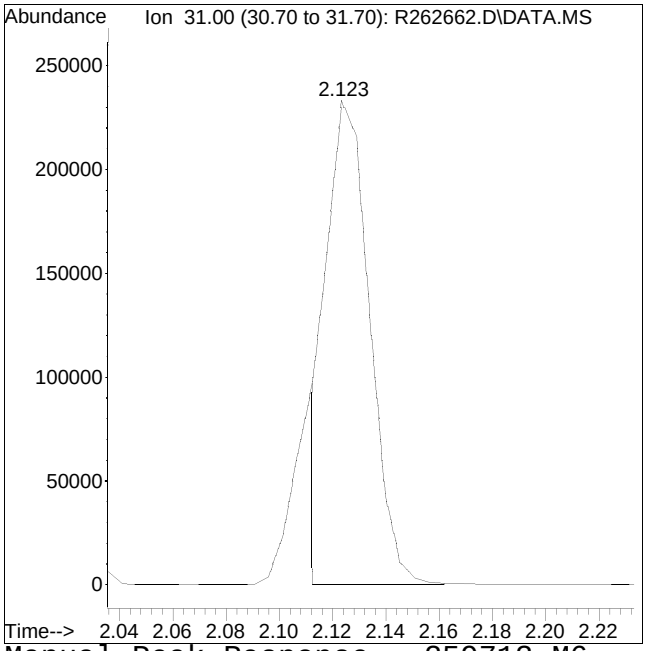
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #8: methanol



Original Peak Response = 322551



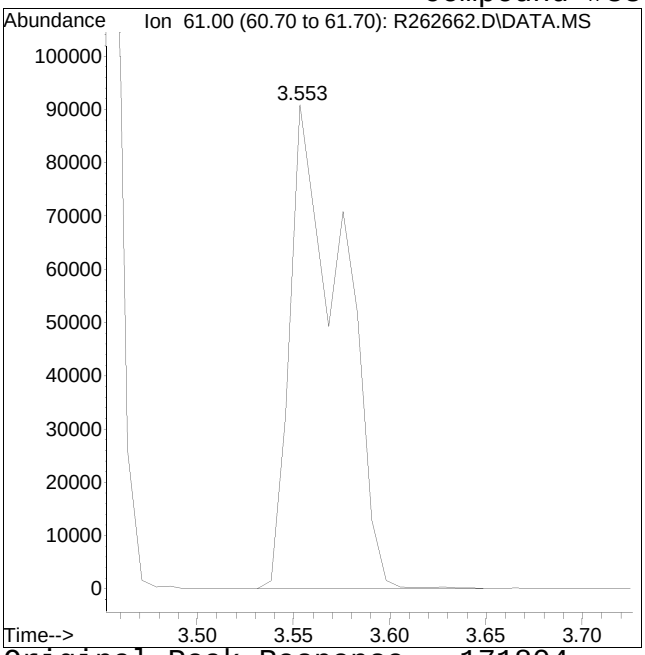
Manual Peak Response = 259713 M6

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

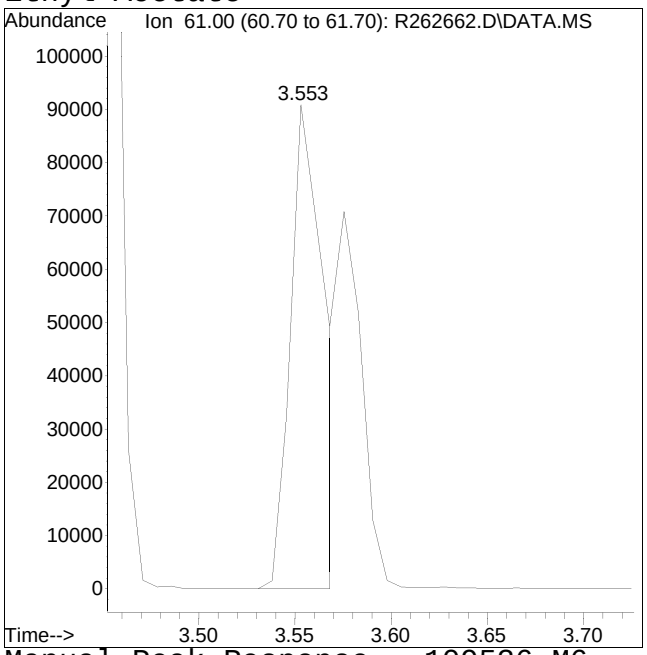
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #38: Ethyl Acetate



Original Peak Response = 171804



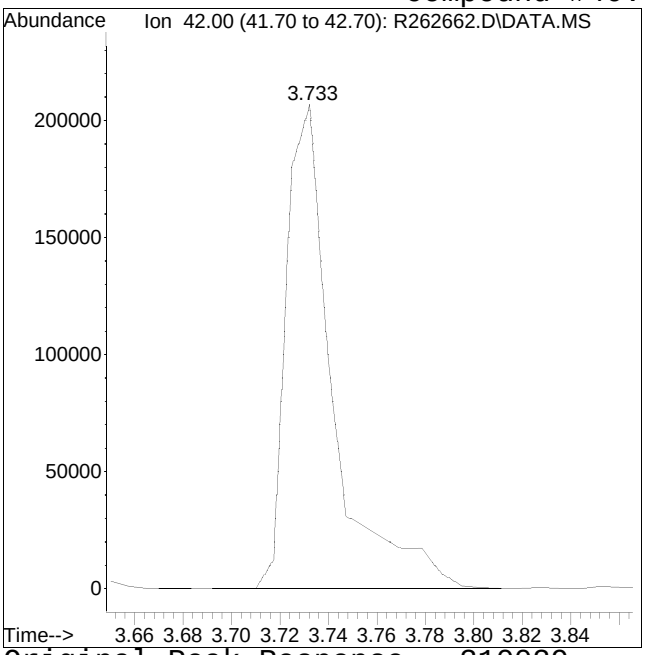
Manual Peak Response = 109536 M6

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

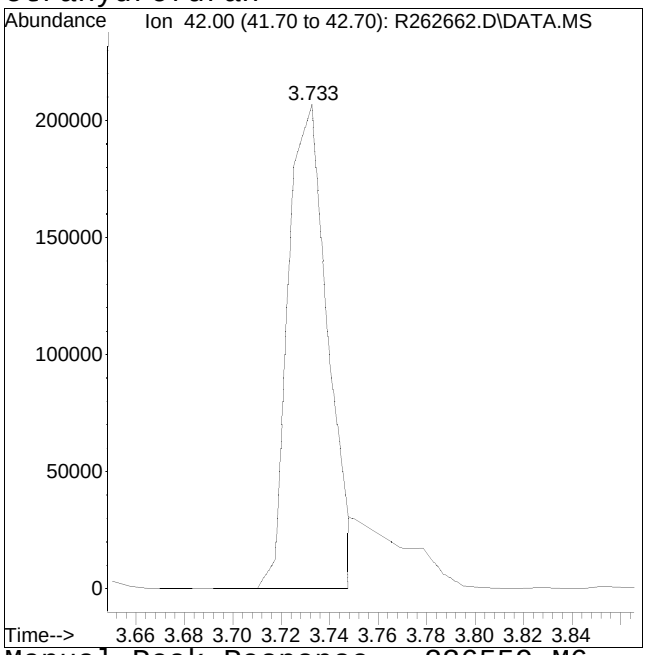
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 310029



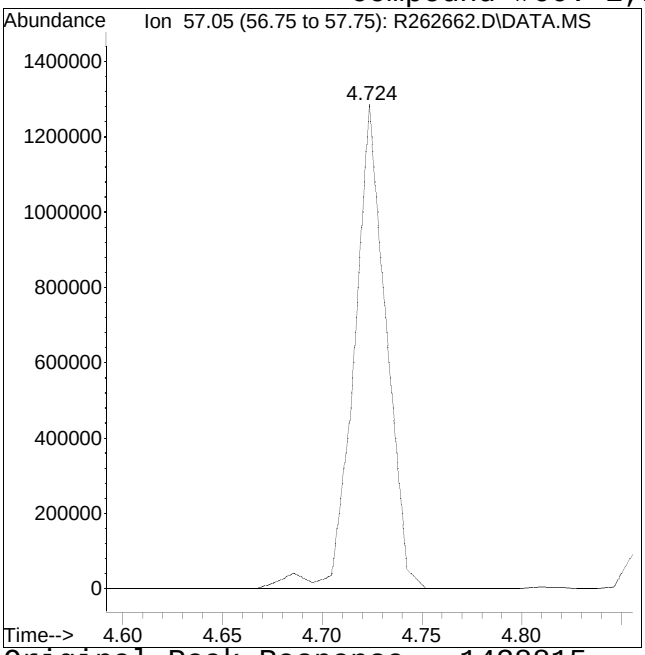
Manual Peak Response = 236559 M6

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

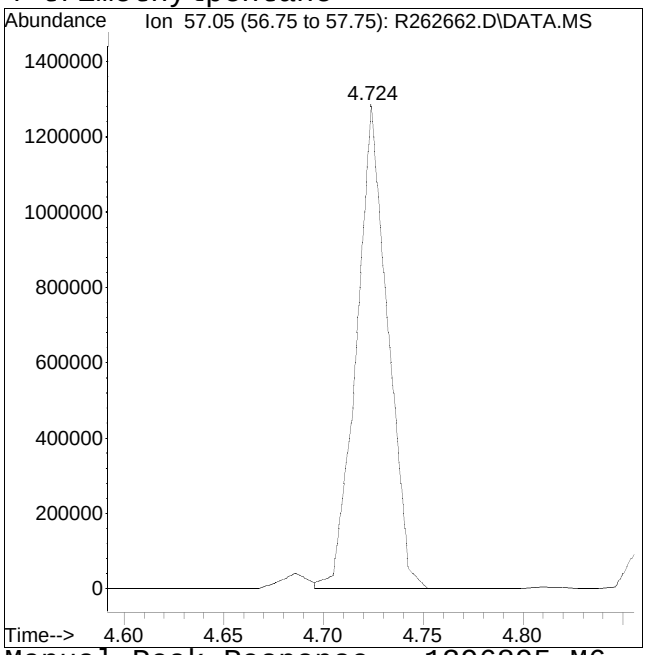
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 1438815



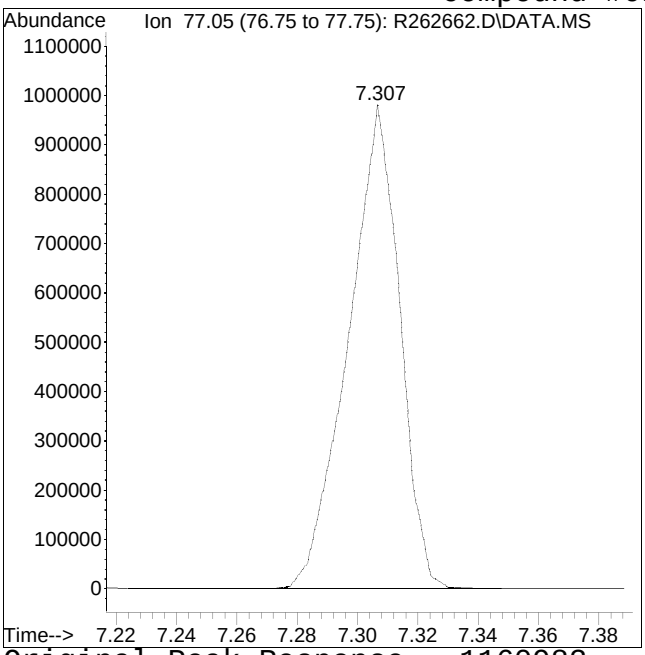
Manual Peak Response = 1396895 M6

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

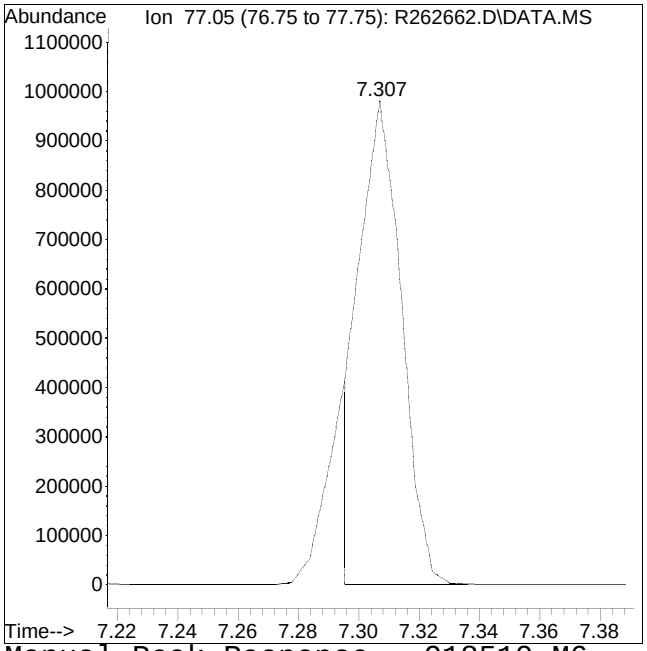
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #92: bromobenzene



Original Peak Response = 1160983



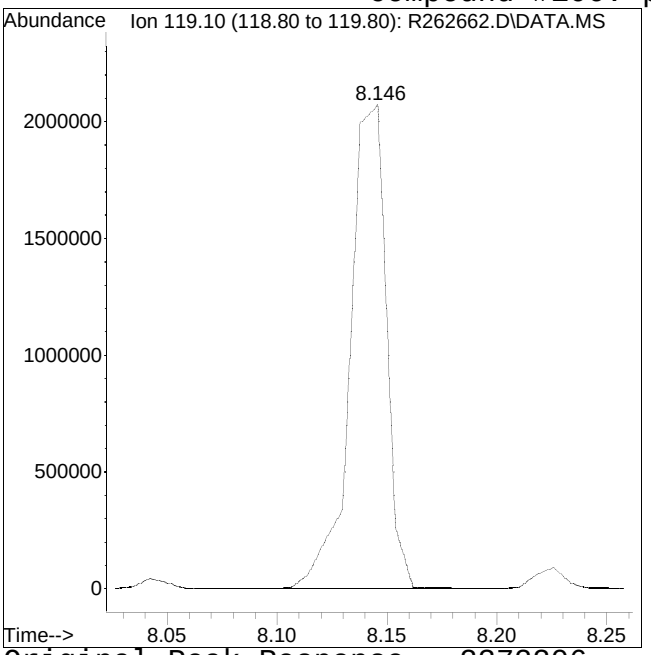
Manual Peak Response = 918510 M6

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

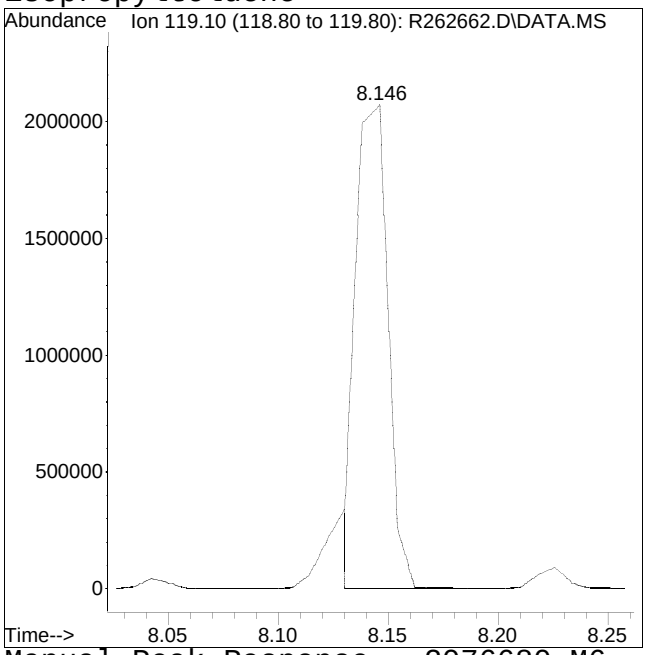
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 12:16 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 2372206



Manual Peak Response = 2076680 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\04\0402T_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:33 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	192328	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 99.55%			
43) 1,4-difluorobenzene	4.365	114	839168	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 100.56%			
67) chlorobenzene-D5	6.449	54	101382	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 100.62%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	191349	9.738	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.38%			
69) toluene-D8	5.541	98	703020	9.945	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
90) bromofluorobenzene	7.214	95	424545	10.021	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.21%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	320426M6	36.843	ppbV	
3) propylene	2.002	41	502267	47.323	ppbV	98
4) propane	2.008	29	287535	47.733	ppbV #	77
5) dichlorodifluoromethane	2.024	85	1886366	47.242	ppbV	99
6) chloromethane	2.074	50	556114	48.124	ppbV	98
7) Freon-114	2.107	85	1965578	47.257	ppbV	97
8) methanol	2.123	31	582926M6	226.412	ppbV	
9) vinyl chloride	2.145	62	708072	48.592	ppbV	99
10) 1,3-butadiene	2.189	54	482429	48.468	ppbV	100
11) butane	2.206	43	797098	47.732	ppbV	98
12) acetaldehyde	2.112	29	1135316	230.760	ppbV	96
13) bromomethane	2.271	94	748193	48.616	ppbV	98
14) chloroethane	2.326	64	398020	48.756	ppbV	97
15) ethanol	2.359	31	1495099	243.631	ppbV	99
16) dichlorofluoromethane	2.354	67	1650102	48.317	ppbV	100
17) vinyl bromide	2.432	106	854076	54.681	ppbV	97
18) acrolein	2.466	56	310382	48.724	ppbV	95
19) acetone	2.500	43	3453736	230.835	ppbV	98
20) acetonitrile	2.426	41	527498	53.816	ppbV	97
21) trichlorofluoromethane	2.551	101	1738089	47.429	ppbV	98
22) isopropyl alcohol	2.568	45	2124884	131.087	ppbV	99
23) acrylonitrile	2.624	53	542545	47.681	ppbV	99
24) pentane	2.653	43	892874	41.382	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:33 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	2.653	31	445044	47.193	ppbV	99
26) 1,1-dichloroethene	2.727	61	1114580	47.949	ppbV	96
27) tertiary butyl alcohol	2.736	59	1406252	56.330	ppbV	99
28) methylene chloride	2.760	49	602394	48.448	ppbV	95
29) 3-chloropropene	2.793	41	604511	47.108	ppbV	98
30) carbon disulfide	2.846	76	1845353	47.000	ppbV	97
31) Freon 113	2.846	101	1501138	46.952	ppbV	96
32) trans-1,2-dichloroethene	3.058	61	894909	48.563	ppbV	99
33) 1,1-dichloroethane	3.128	63	1184520	47.915	ppbV	100
34) MTBE	3.159	73	1871966	48.299	ppbV	99
35) vinyl acetate	3.190	43	1323080	52.109	ppbV	99
36) 2-butanone	3.279	43	1391899	57.831	ppbV	98
37) cis-1,2-dichloroethene	3.441	61	1025314	48.809	ppbV	95
38) Ethyl Acetate	3.553	61	293258M6	47.865	ppbV	
39) chloroform	3.568	83	1617988	47.464	ppbV	99
40) Tetrahydrofuran	3.725	42	611577M6	51.589	ppbV	
41) 2,2-dichloropropane	3.575	77	1365245	48.136	ppbV	99
42) 1,2-dichloroethane	3.868	62	962406	48.765	ppbV	98
44) hexane	3.546	57	1077445	46.854	ppbV	94
45) diisopropyl ether	3.553	87	926997	48.116	ppbV	95
46) tert-butyl ethyl ether	3.770	59	2184994	46.025	ppbV	99
48) 1,1,1-trichloroethane	3.982	97	1735854	48.453	ppbV	100
49) 1,1-dichloropropene	4.120	75	1473727	47.626	ppbV	98
50) benzene	4.186	78	2680678	48.182	ppbV	100
51) thiophene	4.233	84	2044268	37.083	ppbV	100
52) carbon tetrachloride	4.252	117	1800903	48.461	ppbV	99
53) cyclohexane	4.309	56	1132399	48.147	ppbV	100
54) tert-amyl methyl ether	4.478	73	2496008	49.052	ppbV	99
55) dibromomethane	4.544	93	1041397	48.646	ppbV	99
56) 1,2-dichloropropane	4.563	63	906158	49.297	ppbV	99
57) bromodichloromethane	4.657	83	1771365	47.947	ppbV	99
58) 1,4-dioxane	4.686	88	626838	52.369	ppbV	100
59) trichloroethene	4.686	130	1384072	47.941	ppbV	98
60) 2,2,4-trimethylpentane	4.723	57	3369737M6	46.842	ppbV	
61) methyl methacrylate	4.808	41	859621	48.298	ppbV	99
62) heptane	4.865	43	1078878	47.688	ppbV	98
63) cis-1,3-dichloropropene	5.110	75	1479813	48.741	ppbV	99
64) 4-methyl-2-pentanone	5.142	43	1411065	46.875	ppbV	98
65) trans-1,3-dichloropropene	5.373	75	1221472	50.414	ppbV	100
66) 1,1,2-trichloroethane	5.453	97	1195851	47.670	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:33 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	3373876	47.056	ppbV		98
70) 2-methylthiophene	5.621	97	3047923	35.284	ppbV		98
71) 1,3-dichloropropane	5.605	76	1525214	48.221	ppbV		99
72) 2-hexanone	5.748	43	1383608	47.694	ppbV		99
73) 3-methylthiophene	5.701	97	3256655	35.510	ppbV		99
74) dibromochloromethane	5.780	129	2079856	49.307	ppbV		100
75) 1,2-dibromoethane	5.900	107	1870437	48.445	ppbV		99
76) butyl acetate	6.092	73	430422	48.791	ppbV		98
77) octane	6.132	85	1092149	46.762	ppbV		99
78) tetrachloroethene	6.148	166	1794600	48.820	ppbV		92
79) 1,1,1,2-tetrachloroethane	6.471	131	1495148	48.511	ppbV		100
80) chlorobenzene	6.476	112	2828377	47.318	ppbV		98
81) ethylbenzene	6.673	91	4335555	46.783	ppbV		98
82) 2-ethylthiophene	6.689	97	3652227	35.173	ppbV		99
83) m+p-xylene	6.766	91	6588117	90.630	ppbV		98
84) bromoform	6.766	173	2067985	48.876	ppbV		98
85) styrene	6.940	104	2818942	47.627	ppbV		98
86) 1,1,2,2-tetrachloroethane	6.987	83	2472610	47.627	ppbV		98
87) o-xylene	6.992	91	3352093	47.765	ppbV		98
88) 1,2,3-trichloropropane	7.051	75	1796850	48.481	ppbV		96
89) nonane	7.155	43	1640644	47.098	ppbV		96
91) isopropylbenzene	7.295	105	4748519	46.079	ppbV		96
92) bromobenzene	7.307	77	2358276M6	38.920	ppbV		
93) 2-chlorotoluene	7.523	126	1378417	48.547	ppbV		87
94) n-propylbenzene	7.555	120	1452188	47.313	ppbV		76
95) 4-chlorotoluene	7.563	126	1372117	47.960	ppbV		95
96) 4-ethyl toluene	7.635	105	4748635	46.302	ppbV		98
97) 1,3,5-trimethylbenzene	7.683	105	4038421	46.571	ppbV		96
98) tert-butylbenzene	7.898	119	4483777	46.236	ppbV		100
99) 1,2,4-trimethylbenzene	7.898	105	4072843	46.200	ppbV	#	89
100) decane	8.002	57	2183631	46.780	ppbV		98
101) Benzyl Chloride	7.954	91	3815474	52.330	ppbV		99
102) 1,3-dichlorobenzene	7.962	146	3077050	47.401	ppbV		97
103) 1,4-dichlorobenzene	7.994	146	3145230	48.518	ppbV		96
104) sec-butylbenzene	8.042	105	5876364	45.491	ppbV		96
105) 1,2,3-trimethylbenzene	8.122	105	4483830	47.585	ppbV		100
106) p-isopropyltoluene	8.146	119	5140412M6	41.199	ppbV		
107) 1,2-dichlorobenzene	8.186	146	3089791	48.462	ppbV		96
108) n-butylbenzene	8.385	91	4732258	46.209	ppbV		91
109) indan	8.226	117	3971579	51.882	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:33 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

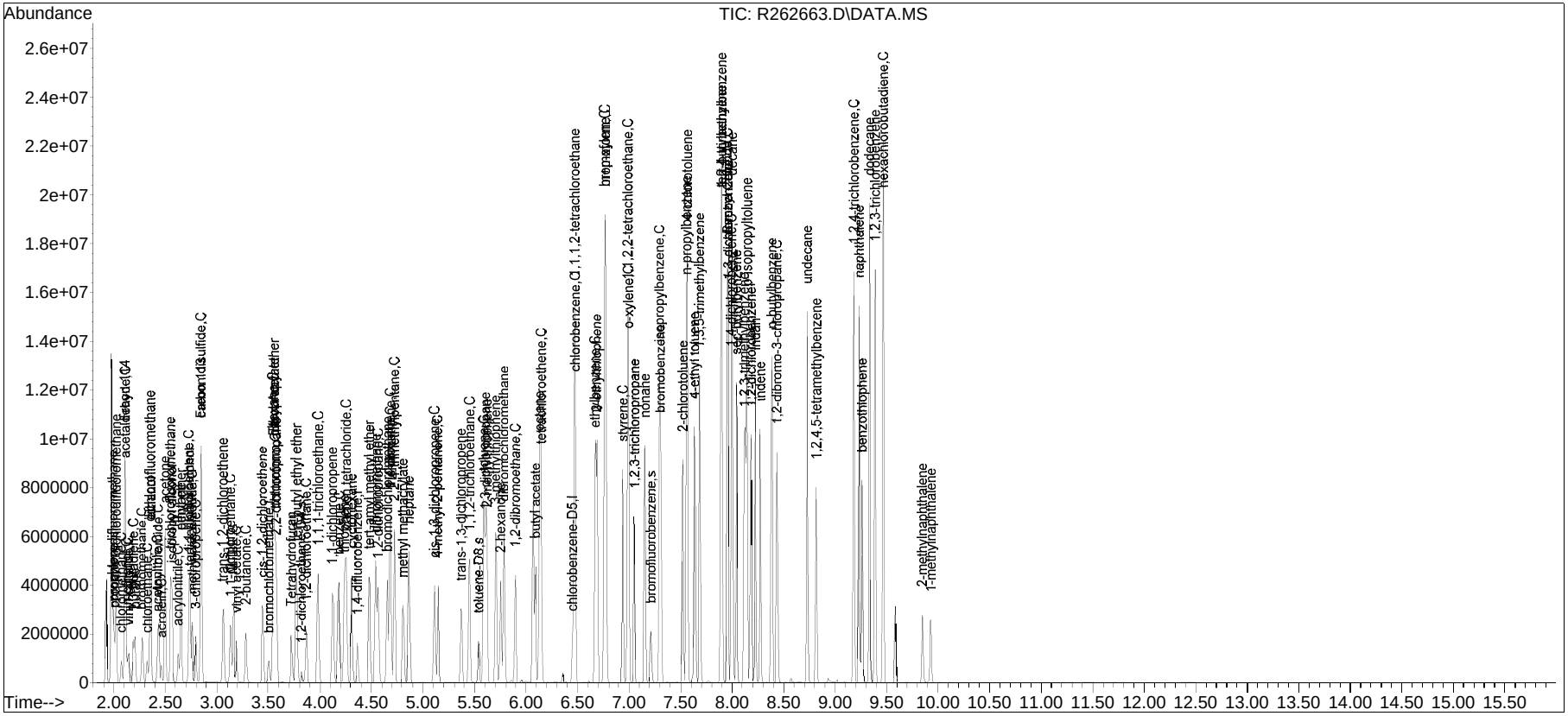
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	8.274	115	3305061	53.067	ppbV	99
111) 1,2-dibromo-3-chloropr...	8.433	75	1293588	49.904	ppbV	96
112) undecane	8.729	57	2799571	47.148	ppbV	99
113) 1,2,4,5-tetramethylben...	8.816	119	2424883	39.050	ppbV	97
114) dodecane	9.335	57	3331517	45.023	ppbV	98
115) 1,2,4-trichlorobenzene	9.183	180	3219402	50.661	ppbV	96
116) naphthalene	9.236	128	6971705	46.966	ppbV	97
117) 1,2,3-trichlorobenzene	9.388	180	3199705	47.151	ppbV	94
118) benzothiophene	9.265	134	3358200	40.402	ppbV	98
119) hexachlorobutadiene	9.464	225	2485489	48.813	ppbV	98
120) 2-methylnaphthalene	9.844	142	728987	45.421	ppbV	100
121) 1-methylnaphthalene	9.932	142	784338	39.163	ppbV	99

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:33 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

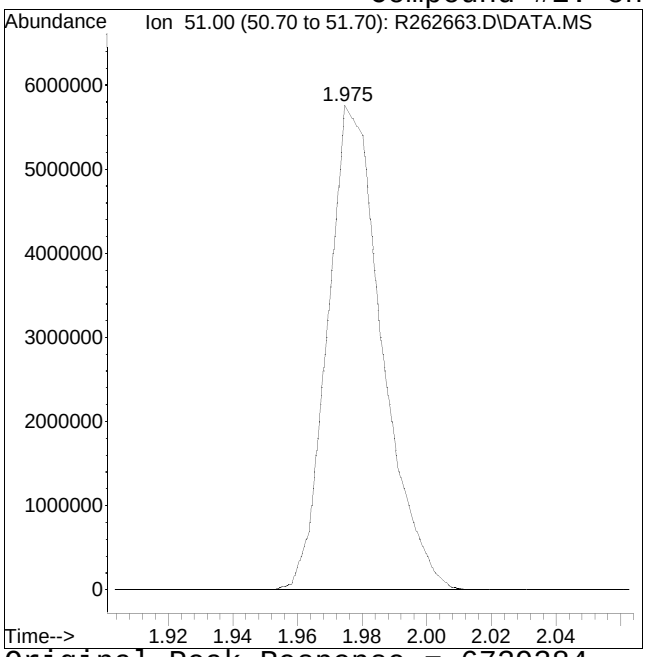


Manual Integration Report

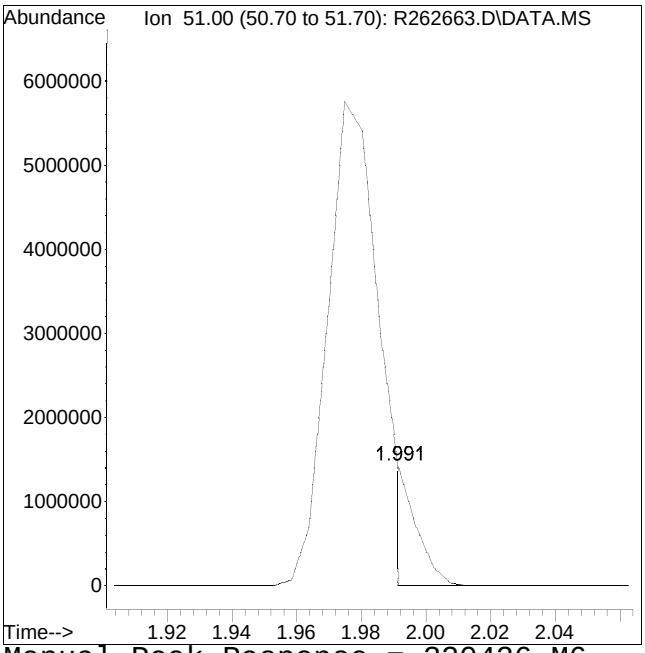
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262663.D
Date Inj'd : 4/3/2025 6:04 am
Sample : ITO15-LLSTD050

Method : TFS26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 12:16 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 6739384



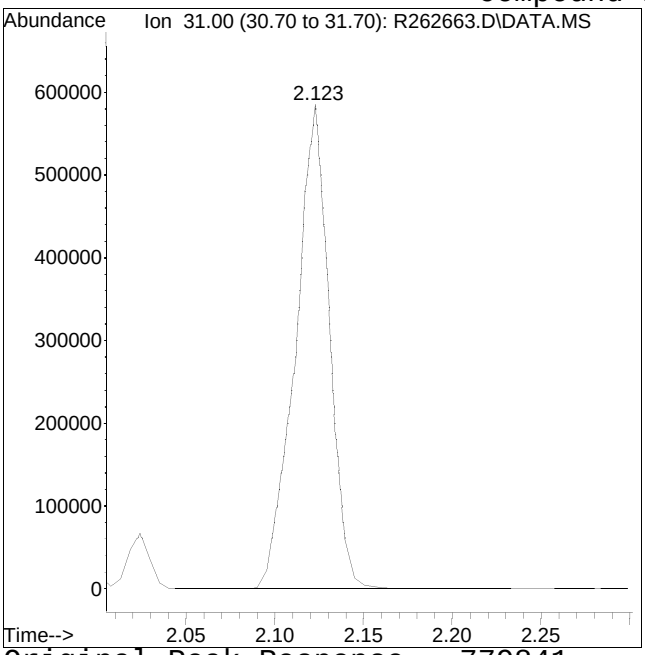
Manual Peak Response = 320426 M6

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

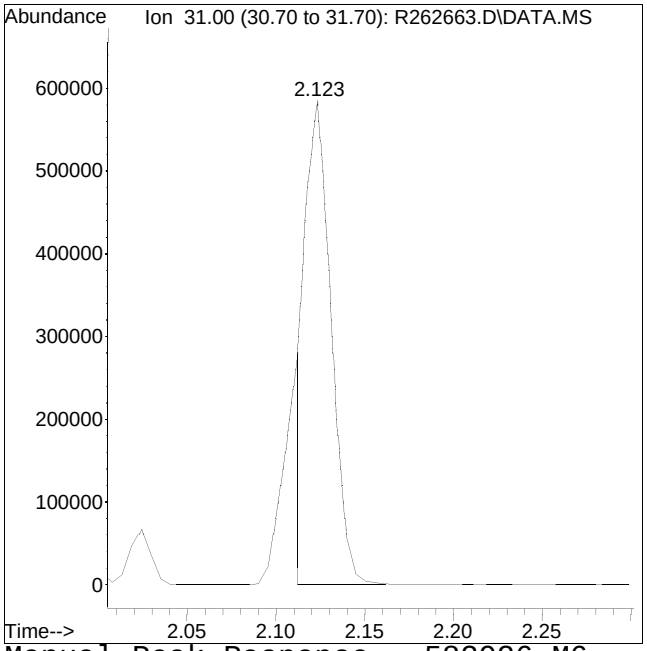
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #8: methanol



Original Peak Response = 779841



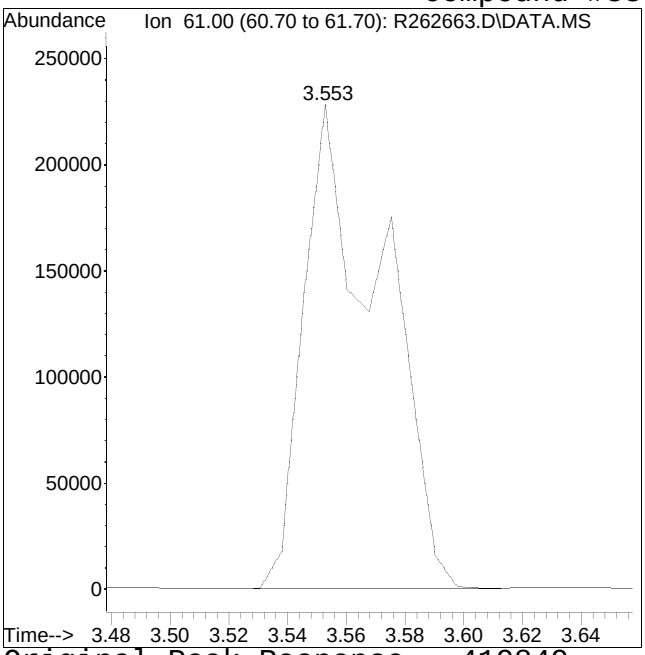
Manual Peak Response = 582926 M6

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

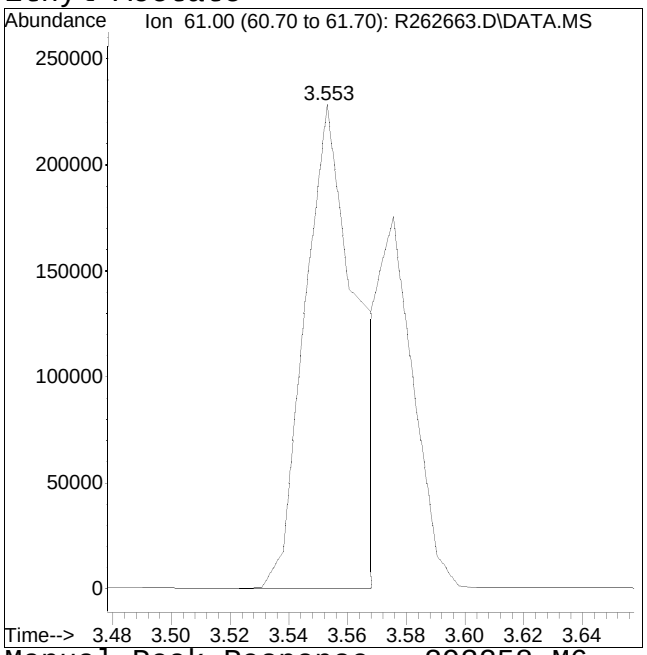
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #38: Ethyl Acetate



Original Peak Response = 419849



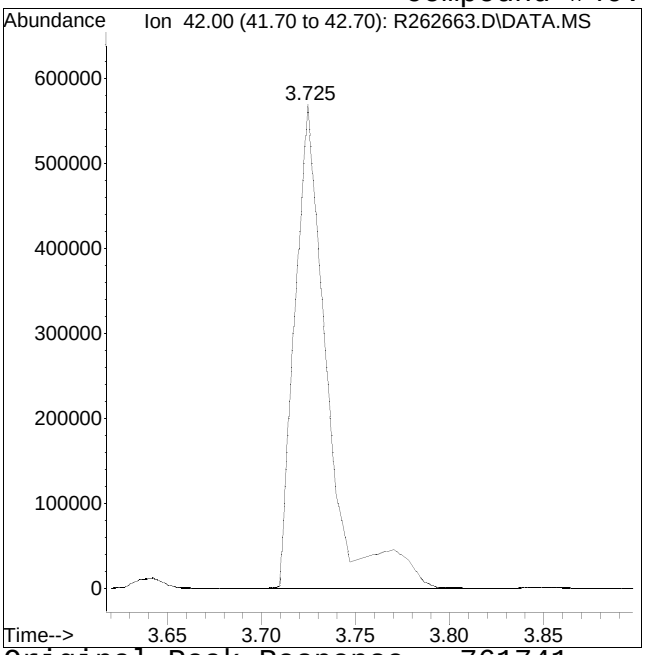
Manual Peak Response = 293258 M6

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

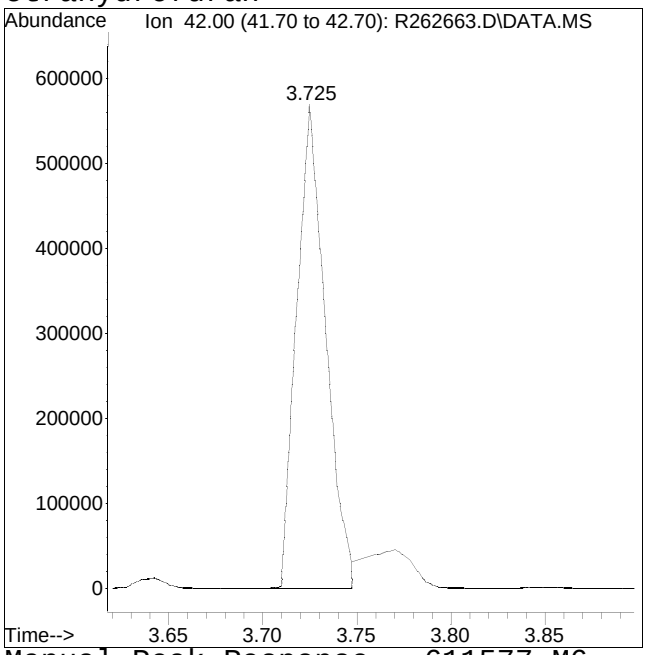
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 761741



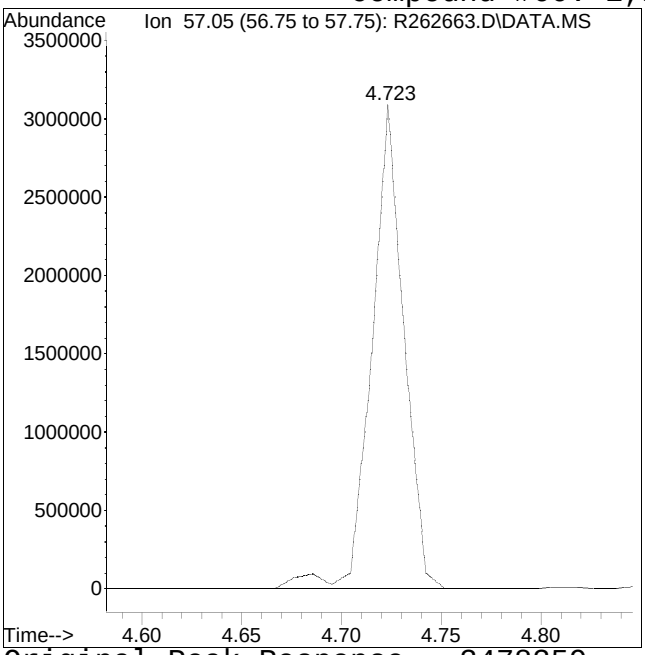
Manual Peak Response = 611577 M6

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

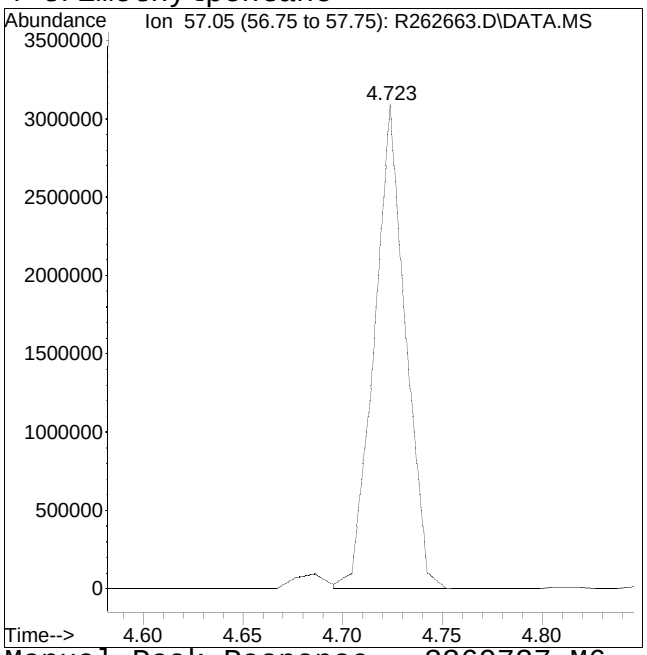
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 3478359



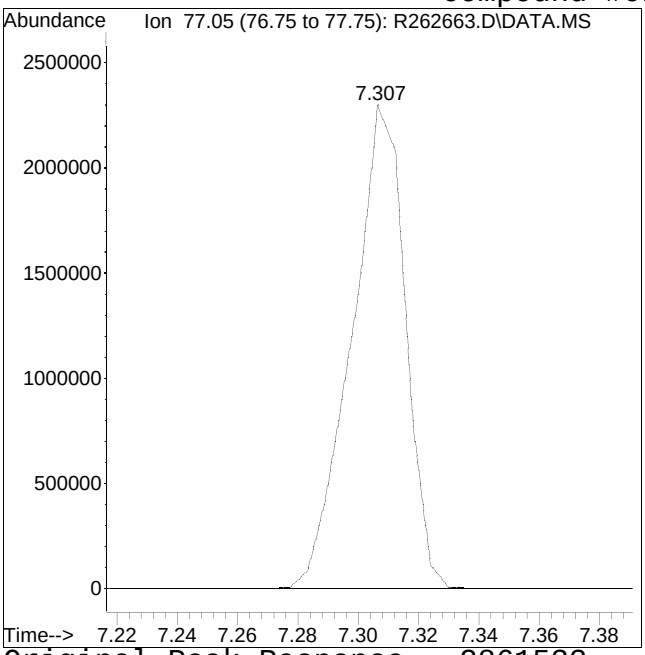
Manual Peak Response = 3369737 M6

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

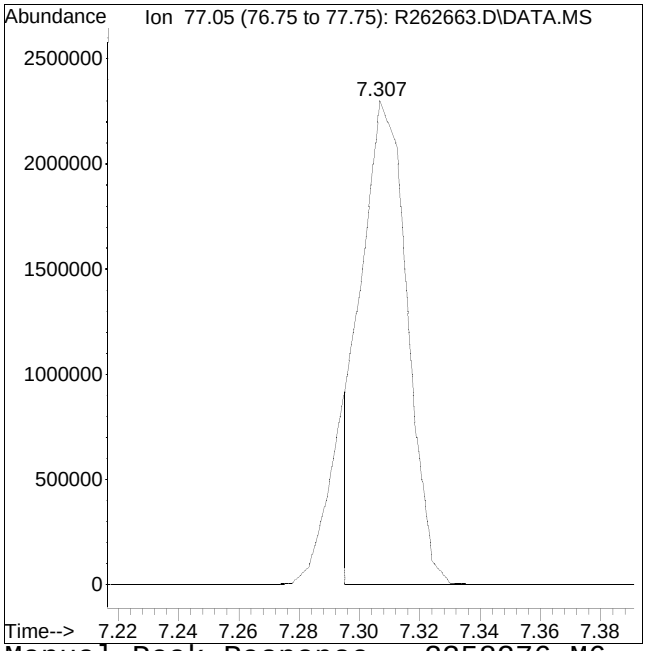
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #92: bromobenzene



Original Peak Response = 2861533



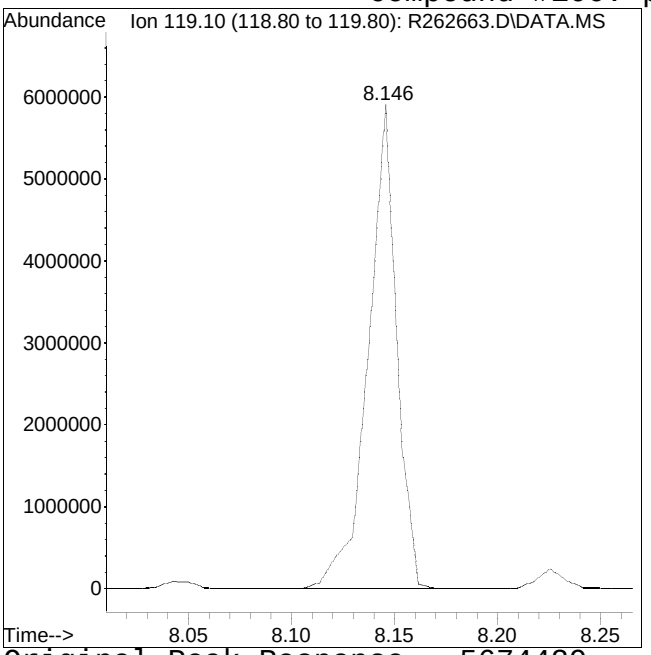
Manual Peak Response = 2358276 M6

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

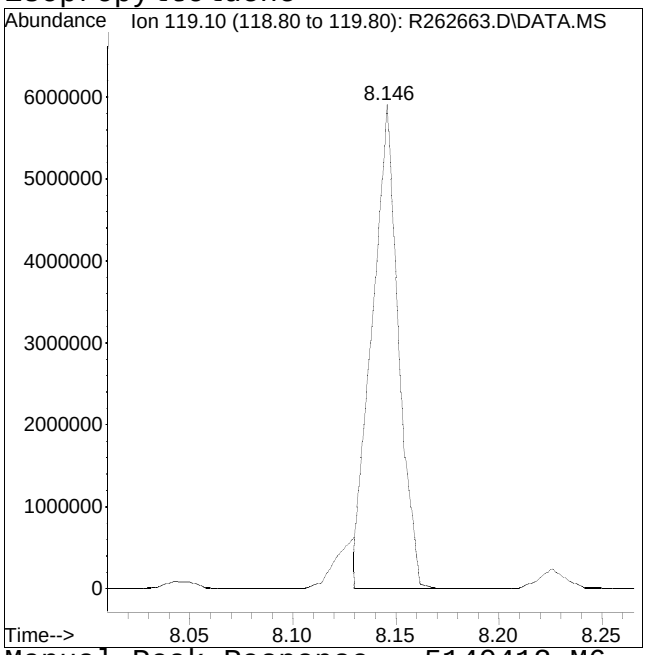
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 12:16 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 5674429



Manual Peak Response = 5140412 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\04\0402T_I\
Data File : R262664.D
Acq On : 03 Apr 2025 06:40 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD100
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	201241	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 104.16%			
43) 1,4-difluorobenzene	4.365	114	845796	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 101.35%			
67) chlorobenzene-D5	6.455	54	103248	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 102.47%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.827	65	220790	11.148	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.48%			
69) toluene-D8	5.541	98	692410	9.618	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.18%			
90) bromofluorobenzene	7.213	95	424015	9.828	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.28%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.991	51	447778M6	49.205	ppbV	
3) propylene	2.002	41	994770	89.576	ppbV	97
4) propane	2.008	29	564506	89.562	ppbV #	87
5) dichlorodifluoromethane	2.024	85	3737130	89.448	ppbV	97
6) chloromethane	2.074	50	1097542	90.771	ppbV	100
7) Freon-114	2.107	85	3757455	86.336	ppbV	92
8) methanol	2.123	31	1126796M6	418.271	ppbV	
9) vinyl chloride	2.145	62	1422838	93.318	ppbV	99
10) 1,3-butadiene	2.189	54	962983	92.462	ppbV	100
11) butane	2.205	43	1583071	90.600	ppbV	98
12) acetaldehyde	2.112	29	2161964	419.970	ppbV	98
13) bromomethane	2.271	94	1477419	91.748	ppbV	99
14) chloroethane	2.326	64	794584	93.022	ppbV	95
15) ethanol	2.359	31	2849950	443.840	ppbV	97
16) dichlorofluoromethane	2.354	67	3164442	88.554	ppbV	99
17) vinyl bromide	2.432	106	1690342	103.428	ppbV	95
18) acrolein	2.466	56	612120	91.836	ppbV	96
19) acetone	2.500	43	6358516	406.157	ppbV	95
20) acetonitrile	2.426	41	1037641	101.173	ppbV	98
21) trichlorofluoromethane	2.551	101	3360221	87.633	ppbV	97
22) isopropyl alcohol	2.568	45	4003612	236.050	ppbV	100
23) acrylonitrile	2.630	53	1085516	91.174	ppbV	98
24) pentane	2.653	43	1698391	75.229	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262664.D
Acq On : 03 Apr 2025 06:40 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD100
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	2.653	31	824230	83.532	ppbV		99
26) 1,1-dichloroethene	2.727	61	2206863	90.735	ppbV		97
27) tertiary butyl alcohol	2.741	59	2679479	102.579	ppbV		99
28) methylene chloride	2.760	49	1172637	90.134	ppbV		95
29) 3-chloropropene	2.798	41	1191174	88.713	ppbV		96
30) carbon disulfide	2.846	76	3481724	84.749	ppbV		98
31) Freon 113	2.846	101	2841010	84.925	ppbV		94
32) trans-1,2-dichloroethene	3.062	61	1738991	90.189	ppbV		98
33) 1,1-dichloroethane	3.133	63	2287293	88.424	ppbV		100
34) MTBE	3.159	73	3609660	89.009	ppbV		99
35) vinyl acetate	3.195	43	2586421	97.354	ppbV		98
36) 2-butanone	3.279	43	2713266	107.739	ppbV		97
37) cis-1,2-dichloroethene	3.448	61	1998969	90.944	ppbV		97
38) Ethyl Acetate	3.553	61	520945M6	81.262	ppbV		
39) chloroform	3.568	83	3131664	87.800	ppbV		99
40) Tetrahydrofuran	3.725	42	1208232M6	97.405	ppbV		
41) 2,2-dichloropropane	3.575	77	2675095	90.141	ppbV		99
42) 1,2-dichloroethane	3.868	62	1887620	91.409	ppbV		98
44) hexane	3.545	57	2085543	89.981	ppbV	#	74
45) diisopropyl ether	3.553	87	1812517	93.342	ppbV		93
46) tert-butyl ethyl ether	3.778	59	4496802	93.979	ppbV		96
48) 1,1,1-trichloroethane	3.982	97	3859998	106.899	ppbV		98
49) 1,1-dichloropropene	4.130	75	2937157	94.175	ppbV		94
50) benzene	4.186	78	5106149	91.057	ppbV		99
51) thiophene	4.243	84	3997195	71.940	ppbV		95
52) carbon tetrachloride	4.252	117	3482230	92.969	ppbV		100
53) cyclohexane	4.309	56	2217742	93.555	ppbV		100
54) tert-amyl methyl ether	4.488	73	4807536	93.738	ppbV		97
55) dibromomethane	4.544	93	2051906	95.099	ppbV		96
56) 1,2-dichloropropane	4.563	63	1758032	94.891	ppbV		99
57) bromodichloromethane	4.657	83	3444475	92.503	ppbV		100
58) 1,4-dioxane	4.686	88	1240623	102.835	ppbV		99
59) trichloroethene	4.686	130	2739818	94.158	ppbV		97
60) 2,2,4-trimethylpentane	4.723	57	6376210M6	87.940	ppbV		
61) methyl methacrylate	4.818	41	1697818	94.645	ppbV		98
62) heptane	4.865	43	2103612	92.254	ppbV		99
63) cis-1,3-dichloropropene	5.110	75	2947868	96.334	ppbV		99
64) 4-methyl-2-pentanone	5.150	43	2763172	91.072	ppbV		95
65) trans-1,3-dichloropropene	5.381	75	2388050	97.791	ppbV		99
66) 1,1,2-trichloroethane	5.453	97	2319441	91.736	ppbV		99

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262664.D
Acq On : 03 Apr 2025 06:40 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD100
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	5.589	91	6419457	87.916	ppbV		96
70) 2-methylthiophene	5.621	97	5764717	65.529	ppbV		96
71) 1,3-dichloropropane	5.613	76	2940674	91.292	ppbV		97
72) 2-hexanone	5.756	43	2708136	91.664	ppbV		95
73) 3-methylthiophene	5.709	97	6184462	66.216	ppbV		96
74) dibromochloromethane	5.780	129	4016329	93.494	ppbV		99
75) 1,2-dibromoethane	5.900	107	3644470	92.686	ppbV		99
76) butyl acetate	6.092	73	853932	95.048	ppbV		97
77) octane	6.132	85	2107381	88.600	ppbV		98
78) tetrachloroethene	6.148	166	3439079	91.866	ppbV		95
79) 1,1,1,2-tetrachloroethane	6.471	131	2874717	91.587	ppbV		99
80) chlorobenzene	6.476	112	5355848	87.983	ppbV		97
81) ethylbenzene	6.678	91	7945438	84.186	ppbV		91
82) 2-ethylthiophene	6.695	97	6683079	63.199	ppbV		94
83) m+p-xylene	6.771	91	11695841	157.988	ppbV		92
84) bromoform	6.771	173	3923013	91.044	ppbV		96
85) styrene	6.940	104	5431863	90.114	ppbV		94
86) 1,1,2,2-tetrachloroethane	6.987	83	4645691	87.866	ppbV		97
87) o-xylene	6.992	91	6214845	86.956	ppbV		97
88) 1,2,3-trichloropropane	7.051	75	3541824	93.835	ppbV		96
89) nonane	7.161	43	3111426	87.706	ppbV		94
91) isopropylbenzene	7.301	105	8449184	80.507	ppbV	#	88
92) bromobenzene	7.312	77	4083735M6	66.178	ppbV		
93) 2-chlorotoluene	7.523	126	2654761	91.808	ppbV		77
94) n-propylbenzene	7.563	120	2758234	88.241	ppbV	#	1
95) 4-chlorotoluene	7.563	126	2602897	89.335	ppbV	#	29
96) 4-ethyl toluene	7.643	105	8655861	82.874	ppbV	#	89
97) 1,3,5-trimethylbenzene	7.683	105	7391386	83.696	ppbV	#	94
98) tert-butylbenzene	7.898	119	8111338	82.132	ppbV		94
99) 1,2,4-trimethylbenzene	7.906	105	7480305	83.319	ppbV		95
100) decane	8.010	57	4004937	84.247	ppbV		95
101) Benzyl Chloride	7.962	91	7045590	94.886	ppbV		91
102) 1,3-dichlorobenzene	7.962	146	5821477	88.057	ppbV		96
103) 1,4-dichlorobenzene	8.002	146	5898867	89.351	ppbV		95
104) sec-butylbenzene	8.050	105	9502441	72.232	ppbV	#	69
105) 1,2,3-trimethylbenzene	8.130	105	8433458	87.883	ppbV		91
106) p-isopropyltoluene	8.146	119	9403922M6	74.007	ppbV		
107) 1,2-dichlorobenzene	8.186	146	5913243	91.071	ppbV		96
108) n-butylbenzene	8.385	91	8271354	79.308	ppbV	#	78
109) indan	8.234	117	7383365	94.708	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262664.D
Acq On : 03 Apr 2025 06:40 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD100
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 12:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default - All compounds listed

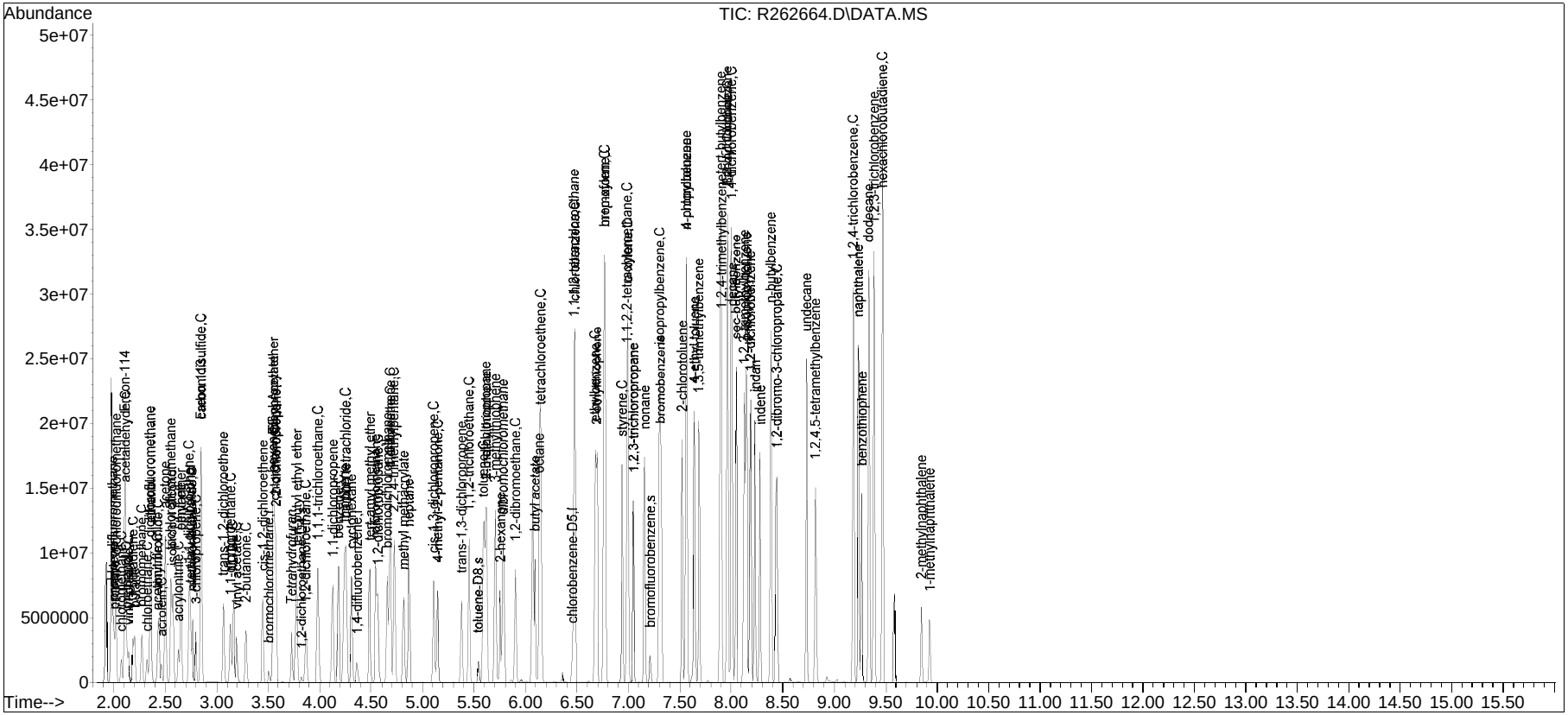
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	8.282	115	6366907	100.381	ppbV		100
111) 1,2-dibromo-3-chloropr...	8.441	75	2628626	99.574	ppbV		96
112) undecane	8.729	57	5347087	88.424	ppbV		98
113) 1,2,4,5-tetramethylben...	8.816	119	4931908	77.988	ppbV		94
114) dodecane	9.335	57	5859651	77.758	ppbV		98
115) 1,2,4-trichlorobenzene	9.183	180	6333460	97.862	ppbV	#	87
116) naphthalene	9.236	128	10085892	66.717	ppbV	#	76
117) 1,2,3-trichlorobenzene	9.388	180	6279369	90.860	ppbV	#	83
118) benzothiophene	9.271	134	6615939	78.157	ppbV		97
119) hexachlorobutadiene	9.464	225	4830247	93.148	ppbV	#	92
120) 2-methylnaphthalene	9.844	142	1568689	95.974	ppbV		100
121) 1-methylnaphthalene	9.926	142	1426708	69.949	ppbV		99

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

Sub List : Default - All compounds listed4\0402T_I\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262664.D
Acq On : 03 Apr 2025 06:40 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD100
Misc : WG2049329
ALS Vial : 8 Sample Multiplier: 1

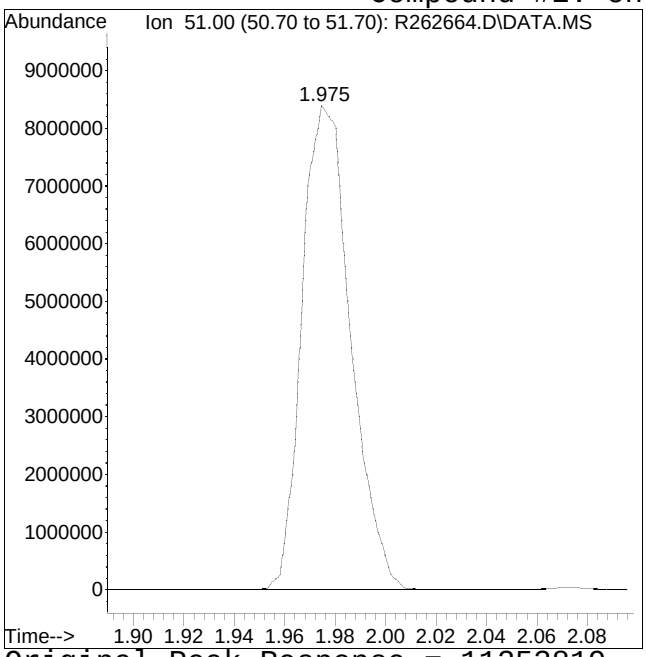
Quant Time: Apr 03 12:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 12:15:31 2025
Response via : Initial Calibration



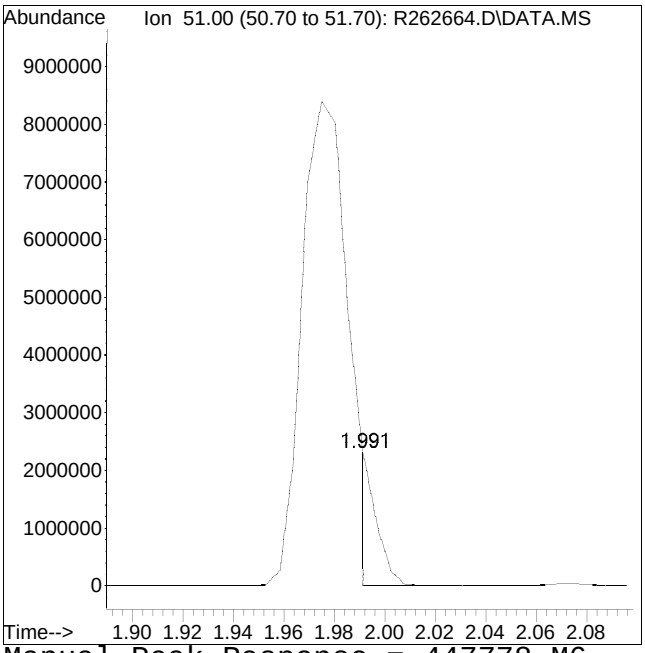
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #2: chlorodifluoromethane



Original Peak Response = 11253819



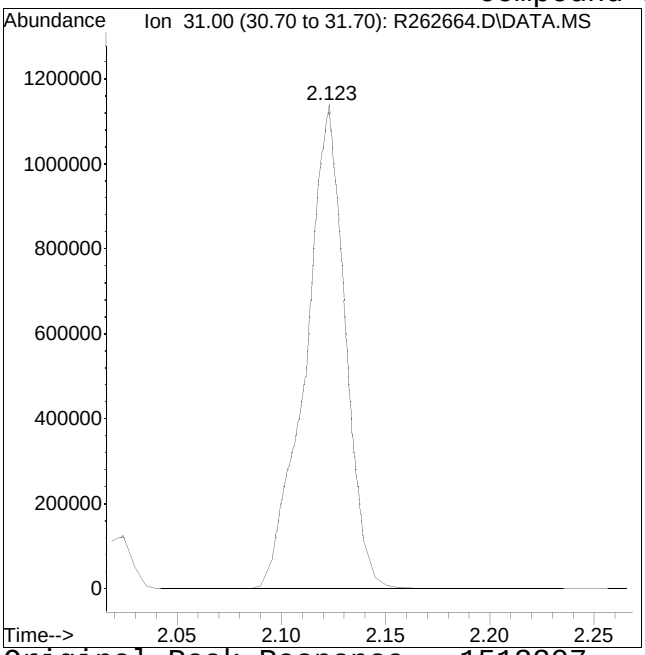
Manual Peak Response = 447778 M6

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

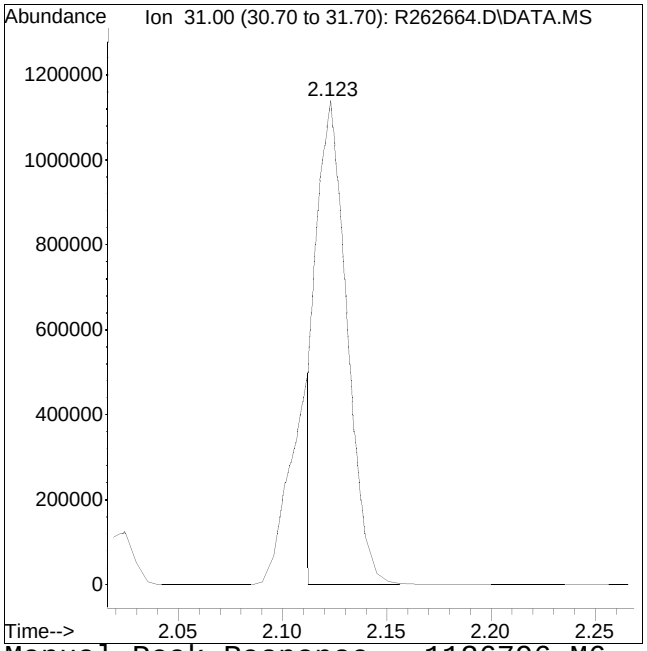
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #8: methanol



Original Peak Response = 1513207



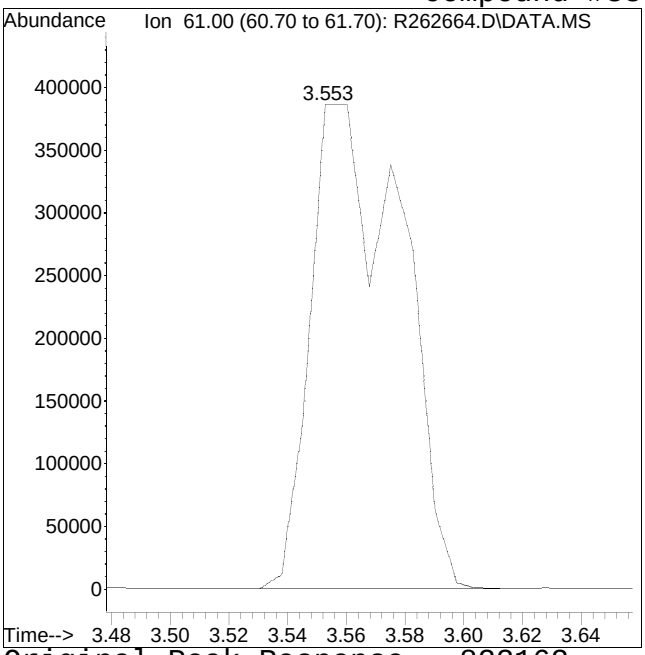
Manual Peak Response = 1126796 M6

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

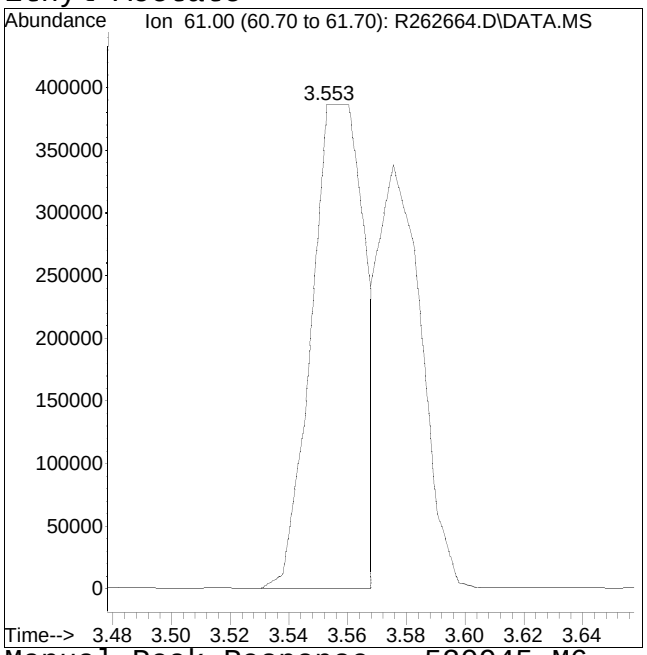
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #38: Ethyl Acetate



Original Peak Response = 823162



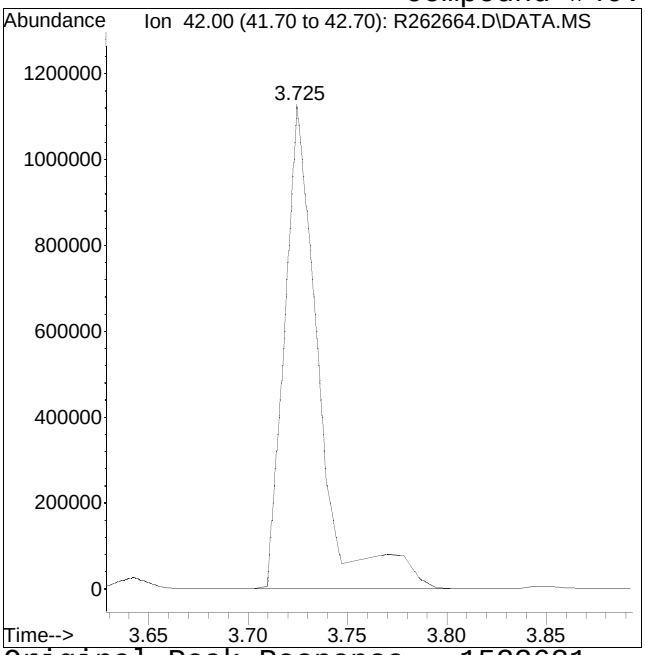
Manual Peak Response = 520945 M6

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

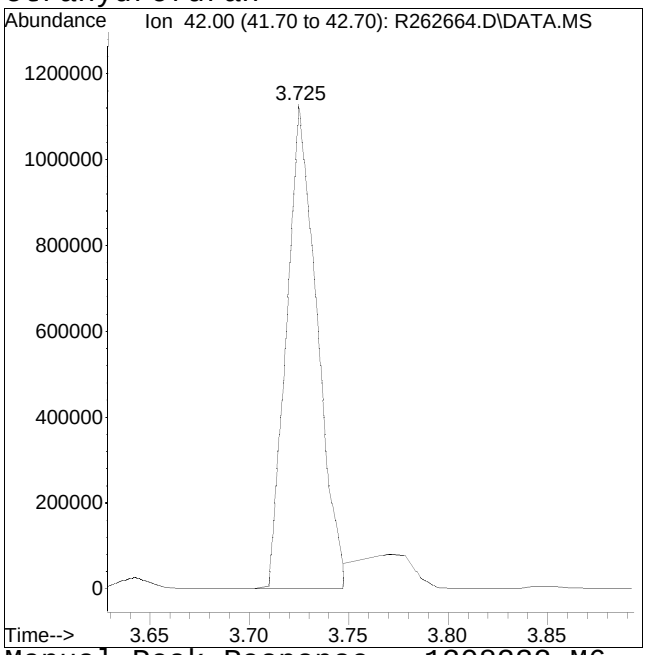
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 1523621



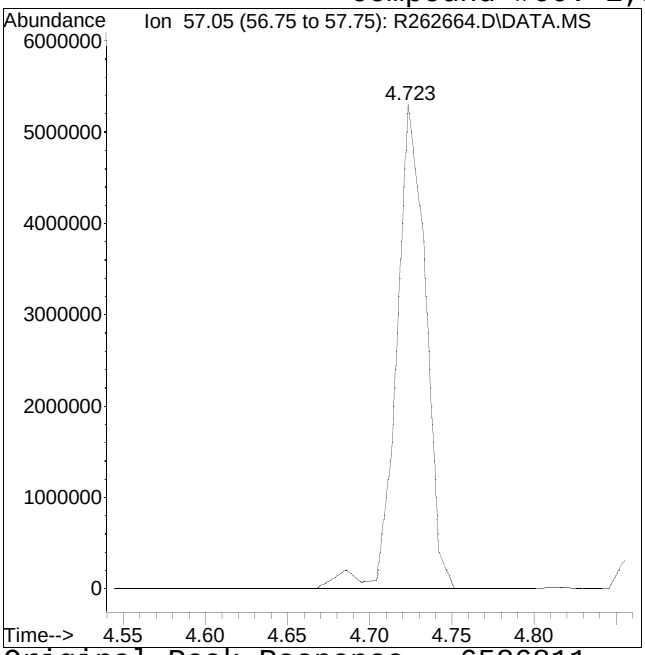
Manual Peak Response = 1208232 M6

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

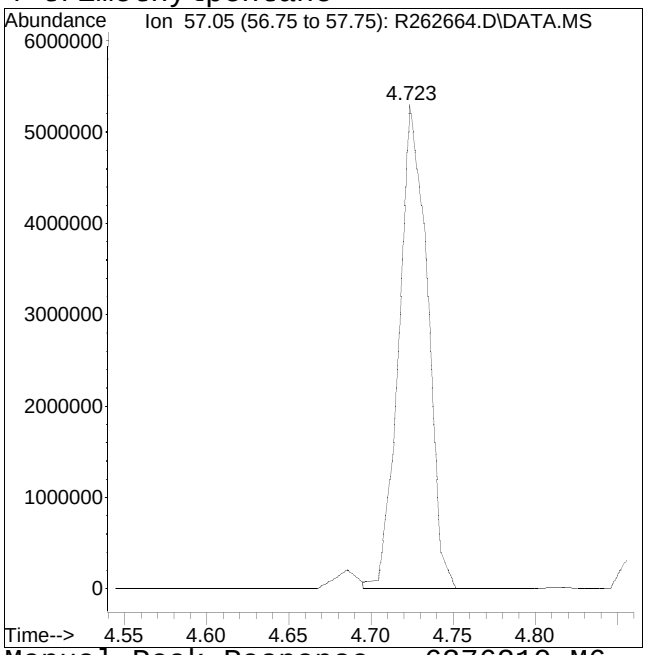
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 6586811



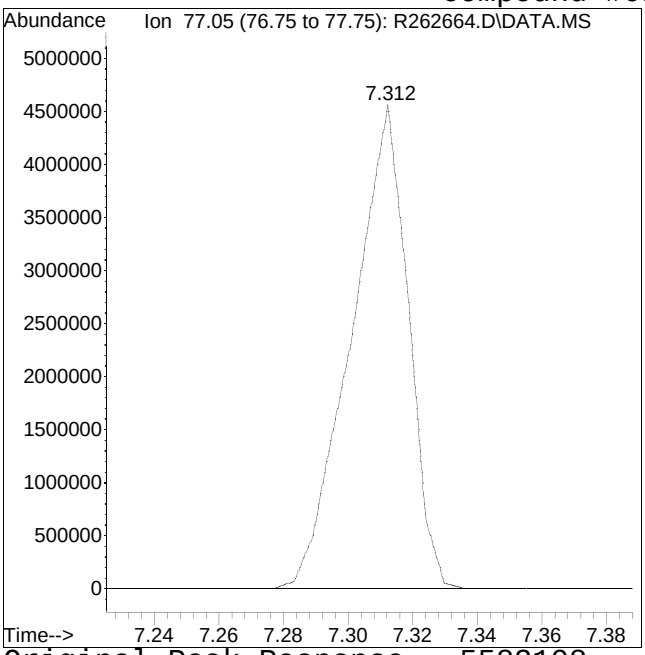
Manual Peak Response = 6376210 M6

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

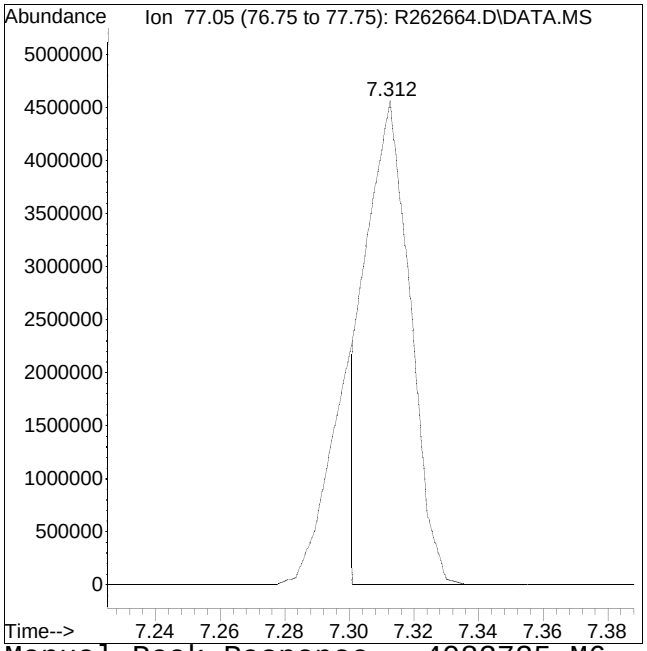
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #92: bromobenzene



Original Peak Response = 5583108



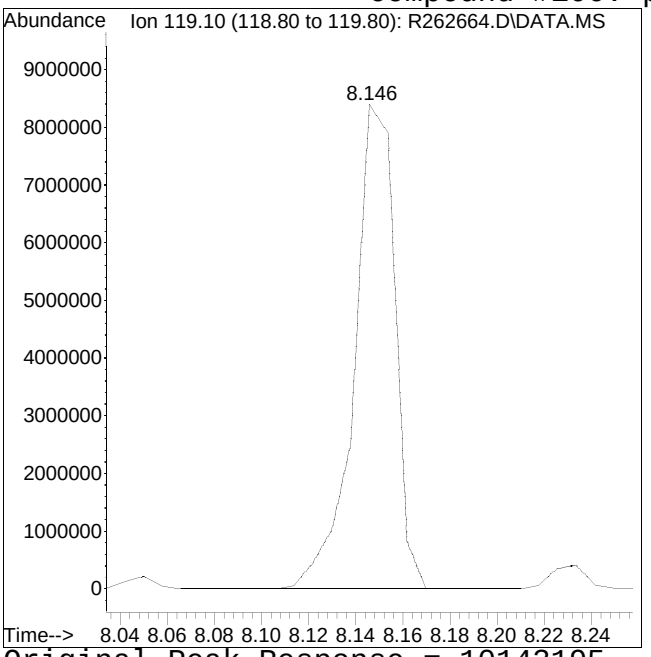
Manual Peak Response = 4083735 M6

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

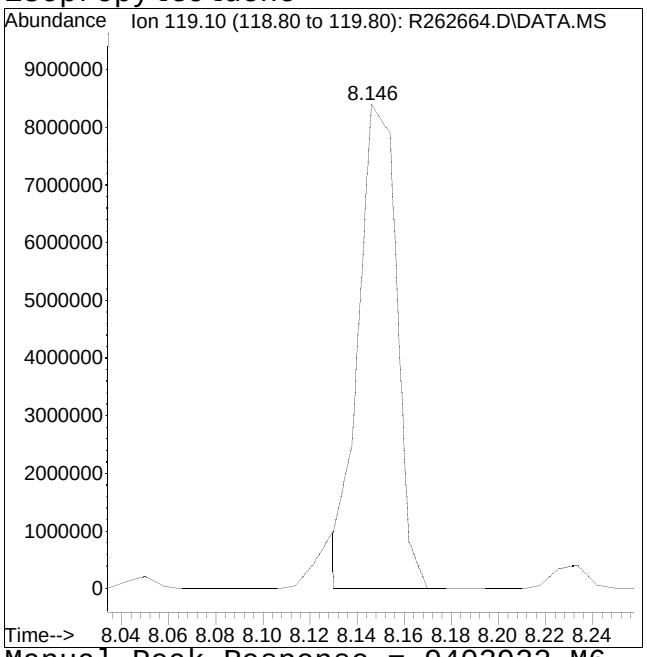
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262664.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:40 am Instrument : Airlab26
Sample : ITO15-LLSTD100 Quant Date : 4/3/2025 12:16 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 10143195



Manual Peak Response = 9403922 M6

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

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	96	0.00
2		chlorodifluoromethane	0.387	0.993	-156.6#	211#	0.00
3		propylene	0.576	0.587	-1.9	102	0.00
4		propane	0.352	0.330	6.2	101	0.00
5		dichlorodifluoromethane	2.163	2.297	-6.2	106	0.00
6	C	chloromethane	0.641	0.614	4.2	98	0.00
7		Freon-114	2.250	2.553	-13.5	113	0.00
8	C	methanol	0.135	0.118	12.6	84	0.00
9	C	vinyl chloride	0.803	0.846	-5.4	107	0.00
10	C	1,3-butadiene	0.580	0.547	5.7	102	0.00
11		butane	0.937	0.846	9.7	94	0.00
13	C	bromomethane	0.833	0.947	-13.7	114	0.00
14	C	chloroethane	0.467	0.486	-4.1	110	0.00
15		ethanol	0.336	0.297	11.6	89	0.00
16		dichlorofluoromethane	1.932	1.716	11.2	93	0.00
17	C	vinyl bromide	0.896	1.011	-12.8	120	0.00
18	C	acrolein	0.338	0.284	16.0	83	0.00
19		acetone	0.824	0.870	-5.6	107	0.00
20	C	acetonitrile	0.581	0.459	21.0	87	0.00
21		trichlorofluoromethane	1.978	2.121	-7.2	107	0.00
22		isopropyl alcohol	0.983	0.811	17.5	92	0.00
23	C	acrylonitrile	0.609	0.549	9.9	89	0.00
24		pentane	1.078	1.064	1.3	91	0.00
25		ethyl ether	0.520	0.489	6.0	96	0.00
26	C	1,1-dichloroethene	1.183	1.363	-15.2	108	0.00
27		tertiary butyl alcohol	1.471	1.373	6.7	102	0.00
28	C	methylene chloride	0.681	0.713	-4.7	106	0.00
29	C	3-chloropropene	0.711	0.701	1.4	101	0.00
30	C	carbon disulfide	2.100	2.176	-3.6	102	0.00
31		Freon 113	1.704	1.852	-8.7	107	0.00
32		trans-1,2-dichloroethene	0.985	1.029	-4.5	103	0.00
33	C	1,1-dichloroethane	1.343	1.399	-4.2	105	0.00
34	C	MTBE	2.095	2.211	-5.5	105	0.00
35	C	vinyl acetate	1.369	0.951	30.5#	69	0.00
36	C	2-butanone	1.357	1.442	-6.3	111	0.00
37		cis-1,2-dichloroethene	1.130	1.212	-7.3	107	0.00
38		Ethyl Acetate	0.301	0.314	-4.3	95	0.00
39	C	chloroform	1.826	1.959	-7.3	106	0.00
40		Tetrahydrofuran	0.659	0.725	-10.0	113	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	1.537	1.438	6.4	94	0.00
42	C	1,2-dichloroethane	1.076	1.105	-2.7	104	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00
44	C	hexane	0.295	0.282	4.4	100	0.00
45		diisopropyl ether	0.233	0.230	1.3	97	0.00
46		tert-butyl ethyl ether	0.631	0.576	8.7	99	0.00
47	s	1,2-dichloroethane-D4	0.234	0.230	1.7	96	0.00
48	C	1,1,1-trichloroethane	0.443	0.461	-4.1	105	0.00
49		1,1-dichloropropene	0.355	0.374	-5.4	99	0.00
50	C	benzene	0.685	0.705	-2.9	104	0.00
52	C	carbon tetrachloride	0.456	0.486	-6.6	107	0.00
53		cyclohexane	0.293	0.298	-1.7	104	0.00
54		tert-amyl methyl ether	0.622	0.612	1.6	98	0.00
55		dibromomethane	0.262	0.248	5.3	95	0.00
56	C	1,2-dichloropropane	0.229	0.237	-3.5	105	0.00
57		bromodichloromethane	0.445	0.472	-6.1	104	0.00
58	C	1,4-dioxane	0.150	0.157	-4.7	107	0.00
59	C	trichloroethene	0.355	0.377	-6.2	107	0.00
60	C	2,2,4-trimethylpentane	0.897	0.927	-3.3	105	0.00
61		methyl methacrylate	0.217	0.201	7.4	92	0.00
62		heptane	0.286	0.286	0.0	103	0.00
63	C	cis-1,3-dichloropropene	0.363	0.421	-16.0	113	0.00
64	C	4-methyl-2-pentanone	0.357	0.369	-3.4	100	0.00
65		trans-1,3-dichloropropene	0.289	0.358	-23.9	121	0.00
66	C	1,1,2-trichloroethane	0.296	0.323	-9.1	105	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
68	C	toluene	7.247	7.882	-8.8	105	0.00
69	s	toluene-D8	6.881	7.271	-5.7	98	0.00
71		1,3-dichloropropane	3.233	3.124	3.4	94	0.00
72		2-hexanone	2.851	2.962	-3.9	98	0.00
74		dibromochloromethane	4.114	4.724	-14.8	107	0.00
75	C	1,2-dibromoethane	3.835	4.378	-14.2	108	0.00
76		butyl acetate	0.862	0.879	-2.0	95	0.00
77		octane	2.370	2.290	3.4	94	0.00
78	C	tetrachloroethene	3.816	4.157	-8.9	108	0.00
79		1,1,1,2-tetrachloroethane	3.062	2.976	2.8	92	0.00
80	C	chlorobenzene	5.992	6.570	-9.6	105	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	9.284	9.949	-7.2	103	0.00
83	C	m+p-xylene	7.256	8.023	-10.6	105	0.00
84	C	bromoform	4.043	4.774	-18.1	108	0.00
85	C	styrene	5.798	6.570	-13.3	106	0.00
86	C	1,1,2,2-tetrachloroethane	5.215	5.821	-11.6	107	0.00
87	C	o-xylene	7.144	7.831	-9.6	107	0.00
88		1,2,3-trichloropropane	3.742	3.702	1.1	95	0.00
89		nonane	3.460	3.360	2.9	92	0.00
90	s	bromofluorobenzene	4.113	4.329	-5.3	98	0.00
91	C	isopropylbenzene	10.228	10.329	-1.0	96	0.00
92		bromobenzene	4.707	4.861	-3.3	77	0.00
93		2-chlorotoluene	2.841	2.770	2.5	93	0.00
94		n-propylbenzene	3.073	3.060	0.4	95	0.00
95		4-chlorotoluene	2.842	2.742	3.5	92	0.00
96		4-ethyl toluene	10.014	11.062	-10.5	103	0.00
97		1,3,5-trimethylbenzene	8.578	9.813	-14.4	108	0.00
98		tert-butylbenzene	9.695	9.780	-0.9	96	0.00
99		1,2,4-trimethylbenzene	8.742	10.017	-14.6	109	0.00
100		decane	4.736	4.516	4.6	92	0.00
101	C	Benzyl Chloride	6.962	6.573	5.6	86	0.00
102		1,3-dichlorobenzene	6.413	7.456	-16.3	110	0.00
103	C	1,4-dichlorobenzene	6.475	7.541	-16.5	111	0.00
104		sec-butylbenzene	12.685	12.531	1.2	93	0.00
106		p-isopropyltoluene	10.985	10.501	4.4	93	0.00
107		1,2-dichlorobenzene	6.293	7.061	-12.2	106	0.00
108		n-butylbenzene	10.051	10.384	-3.3	97	0.00
111	C	1,2-dibromo-3-chloropropane	2.495	2.350	5.8	87	0.00
112		undecane	5.939	5.510	7.2	89	0.00
114		dodecane	6.420	6.657	-3.7	86	0.00
115	C	1,2,4-trichlorobenzene	6.097	7.268	-19.2	109	0.00
116		naphthalene	13.634	13.038	4.4	84	0.00
117		1,2,3-trichlorobenzene	5.995	6.278	-4.7	88	0.00
119	C	hexachlorobutadiene	5.056	5.703	-12.8	107	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\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	185744	10.000	ppbV	0.00
Standard Area = 193196			Recovery = 96.14%			
43) 1,4-difluorobenzene	4.366	114	812239	10.000	ppbV	0.00
Standard Area = 834490			Recovery = 97.33%			
67) chlorobenzene-D5	6.449	54	94913	10.000	ppbV	0.00
Standard Area = 100761			Recovery = 94.20%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	3.819	65	186706	9.840	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.40%			
69) toluene-D8	5.541	98	690117	10.566	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.66%			
90) bromofluorobenzene	7.214	95	410840	10.524	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.24%			
Target Compounds						Qvalue
2) chlorodifluoromethane	1.992	51	184476	25.650	ppbV #	77
3) propylene	2.002	41	109084	10.200	ppbV	98
4) propane	2.008	29	61264	9.373	ppbV #	72
5) dichlorodifluoromethane	2.024	85	426652	10.620	ppbV	98
6) chloromethane	2.074	50	113973	9.577	ppbV	98
7) Freon-114	2.107	85	474137	11.343	ppbV	99
8) methanol	2.123	31	109181M6	43.646	ppbV	
9) vinyl chloride	2.145	62	157146	10.531	ppbV	99
10) 1,3-butadiene	2.189	54	101618	9.430	ppbV	100
11) butane	2.206	43	157073	9.022	ppbV	97
13) bromomethane	2.272	94	175915	11.370	ppbV	98
14) chloroethane	2.327	64	90277	10.410	ppbV	98
15) ethanol	2.359	31	275493	44.190	ppbV	98
16) dichlorofluoromethane	2.354	67	318705	8.882	ppbV	100
17) vinyl bromide	2.438	106	187820	11.282	ppbV	96
18) acrolein	2.466	56	52838	8.428	ppbV	96
19) acetone	2.500	43	807751	52.778	ppbV	100
20) acetonitrile	2.432	41	85259	7.905	ppbV	97
21) trichlorofluoromethane	2.557	101	394008	10.726	ppbV	98
22) isopropyl alcohol	2.568	45	376525	20.615	ppbV	99
23) acrylonitrile	2.630	53	101883	9.004	ppbV	98
24) pentane	2.653	43	197657	9.870	ppbV	99
25) ethyl ether	2.659	31	90756	9.391	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	2.732	61	253123	11.515	ppbV	94
27) tertiary butyl alcohol	2.736	59	254988	9.335	ppbV	99
28) methylene chloride	2.760	49	132422	10.472	ppbV	95
29) 3-chloropropene	2.798	41	130122	9.847	ppbV	98
30) carbon disulfide	2.851	76	404153	10.361	ppbV	98
31) Freon 113	2.846	101	343994	10.869	ppbV	97
32) trans-1,2-dichloroethene	3.062	61	191179	10.451	ppbV	99
33) 1,1-dichloroethane	3.133	63	259881	10.420	ppbV	100
34) MTBE	3.160	73	410708	10.552	ppbV	99
35) vinyl acetate	3.195	43	176587	6.946	ppbV	100
36) 2-butanone	3.279	43	267838	10.630	ppbV	99
37) cis-1,2-dichloroethene	3.449	61	225141	10.727	ppbV	98
38) Ethyl Acetate	3.553	61	58300M6	10.412	ppbV	
39) chloroform	3.568	83	363796	10.727	ppbV	99
40) Tetrahydrofuran	3.732	42	134734M6	11.010	ppbV	
41) 2,2-dichloropropane	3.576	77	267093	9.355	ppbV	98
42) 1,2-dichloroethane	3.868	62	205328	10.273	ppbV	99
44) hexane	3.546	57	229252	9.581	ppbV	87
45) diisopropyl ether	3.553	87	186705	9.850	ppbV	97
46) tert-butyl ethyl ether	3.779	59	468231	9.138	ppbV	98
48) 1,1,1-trichloroethane	3.982	97	374457	10.403	ppbV	99
49) 1,1-dichloropropene	4.130	75	303522	10.515	ppbV	94
50) benzene	4.186	78	572641	10.298	ppbV	100
52) carbon tetrachloride	4.252	117	394671	10.667	ppbV	97
53) cyclohexane	4.309	56	242316	10.175	ppbV	98
54) tert-amyl methyl ether	4.488	73	497466	9.853	ppbV	98
55) dibromomethane	4.545	93	201278	9.453	ppbV	97
56) 1,2-dichloropropane	4.563	63	192167	10.352	ppbV	98
57) bromodichloromethane	4.658	83	383495	10.600	ppbV	99
58) 1,4-dioxane	4.686	88	127343	10.429	ppbV	96
59) trichloroethene	4.686	130	306388	10.633	ppbV	98
60) 2,2,4-trimethylpentane	4.724	57	753132M6	10.338	ppbV	
61) methyl methacrylate	4.809	41	162973	9.227	ppbV	100
62) heptane	4.865	43	231916	9.983	ppbV	98
63) cis-1,3-dichloropropene	5.110	75	342088	11.605	ppbV	99
64) 4-methyl-2-pentanone	5.142	43	300036	10.333	ppbV	100
65) trans-1,3-dichloropropene	5.374	75	290484	12.356	ppbV	100
66) 1,1,2-trichloroethane	5.445	97	262005	10.892	ppbV	100
68) toluene	5.589	91	748093	10.876	ppbV	99
71) 1,3-dichloropropane	5.605	76	296509	9.664	ppbV	98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	5.749	43	281123	10.390	ppbV	99
74) dibromochloromethane	5.781	129	448332	11.482	ppbV	100
75) 1,2-dibromoethane	5.900	107	415549	11.417	ppbV	100
76) butyl acetate	6.092	73	83388	10.187	ppbV	98
77) octane	6.132	85	217393	9.665	ppbV	98
78) tetrachloroethene	6.148	166	394521	10.892	ppbV	90
79) 1,1,1,2-tetrachloroethane	6.471	131	282426	9.718	ppbV	99
80) chlorobenzene	6.471	112	623566	10.964	ppbV	99
81) ethylbenzene	6.673	91	944297	10.716	ppbV	99
83) m+p-xylene	6.766	91	1522932	22.115	ppbV	99
84) bromoform	6.766	173	453118	11.807	ppbV	99
85) styrene	6.940	104	623575	11.332	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	552453	11.161	ppbV	99
87) o-xylene	6.993	91	743280	10.962	ppbV	100
88) 1,2,3-trichloropropane	7.051	75	351379	9.894	ppbV	95
89) nonane	7.156	43	318933	9.710	ppbV	99
91) isopropylbenzene	7.295	105	980319	10.098	ppbV	100
92) bromobenzene	7.307	77	461327M6	10.327	ppbV	
93) 2-chlorotoluene	7.523	126	262920	9.749	ppbV	91
94) n-propylbenzene	7.555	120	290438	9.957	ppbV	93
95) 4-chlorotoluene	7.563	126	260242	9.649	ppbV	89
96) 4-ethyl toluene	7.635	105	1049942	11.047	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	931385	11.440	ppbV	99
98) tert-butylbenzene	7.891	119	928272	10.088	ppbV	97
99) 1,2,4-trimethylbenzene	7.899	105	950764	11.459	ppbV	99
100) decane	8.002	57	428650	9.536	ppbV	99
101) Benzyl Chloride	7.954	91	623819	9.440	ppbV	99
102) 1,3-dichlorobenzene	7.954	146	707682	11.627	ppbV	99
103) 1,4-dichlorobenzene	7.994	146	715700	11.645	ppbV	100
104) sec-butylbenzene	8.042	105	1189387	9.878	ppbV	98
106) p-isopropyltoluene	8.146	119	996642M6	9.559	ppbV	
107) 1,2-dichlorobenzene	8.178	146	670219	11.221	ppbV	99
108) n-butylbenzene	8.386	91	985616	10.332	ppbV	97
111) 1,2-dibromo-3-chloropr...	8.433	75	223017	9.416	ppbV	99
112) undecane	8.729	57	522955	9.277	ppbV	98
114) dodecane	9.336	57	631851	10.369	ppbV	100
115) 1,2,4-trichlorobenzene	9.184	180	689806	11.921	ppbV	99
116) naphthalene	9.236	128	1237475	9.563	ppbV	98
117) 1,2,3-trichlorobenzene	9.388	180	595824	10.471	ppbV	98
119) hexachlorobutadiene	9.464	225	541256	11.278	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402T_I\R262661.D
Sub List : Default-ICV-AP2 - All compounds listed

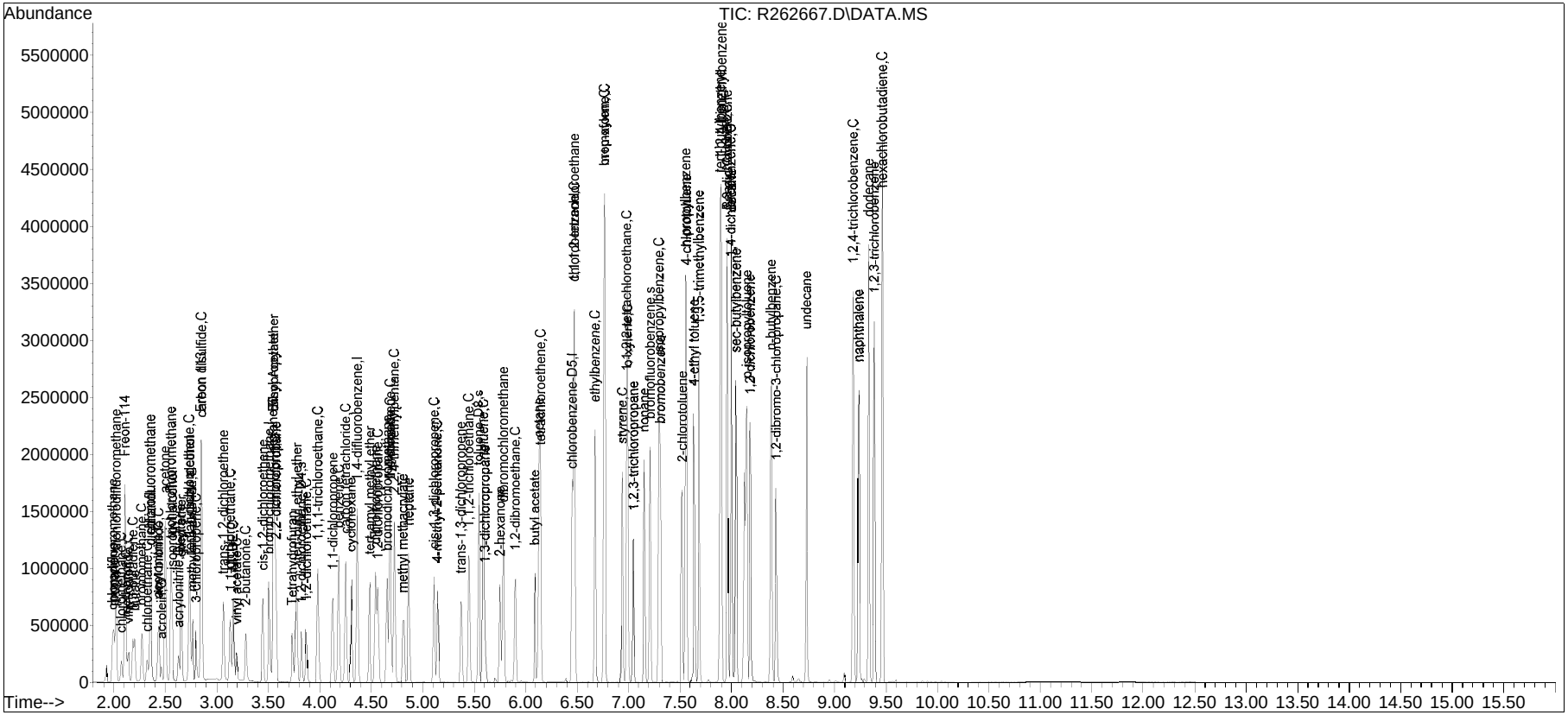
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listedI\R262661.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402T_I\
Data File : R262667.D
Acq On : 03 Apr 2025 03:34 pm
Operator : AIRLAB26:JJT
Sample : CTO15-LLSTD010
Misc : WG2049329
ALS Vial : 2 Sample Multiplier: 1

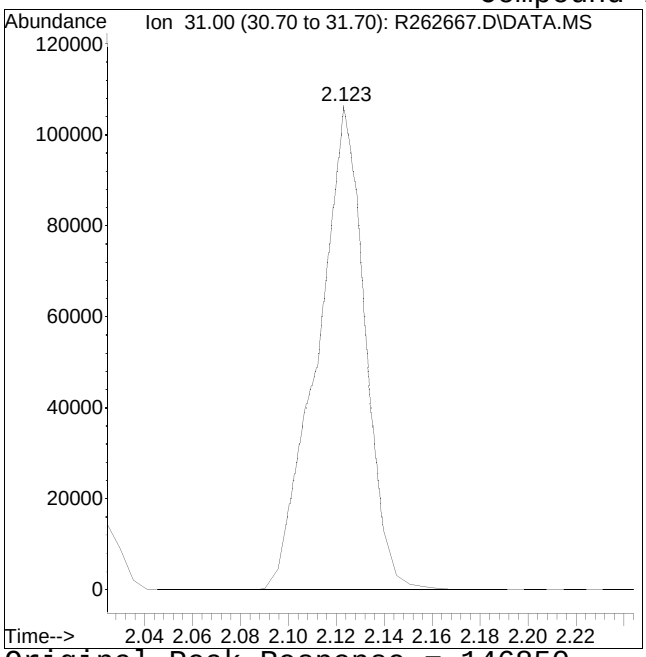
Quant Time: Apr 03 20:45:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402T_I\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration



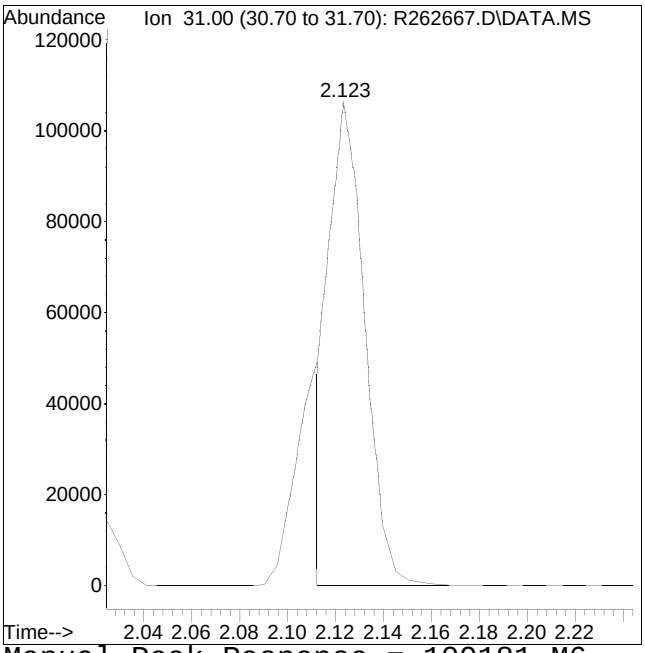
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #8: methanol



Original Peak Response = 146850



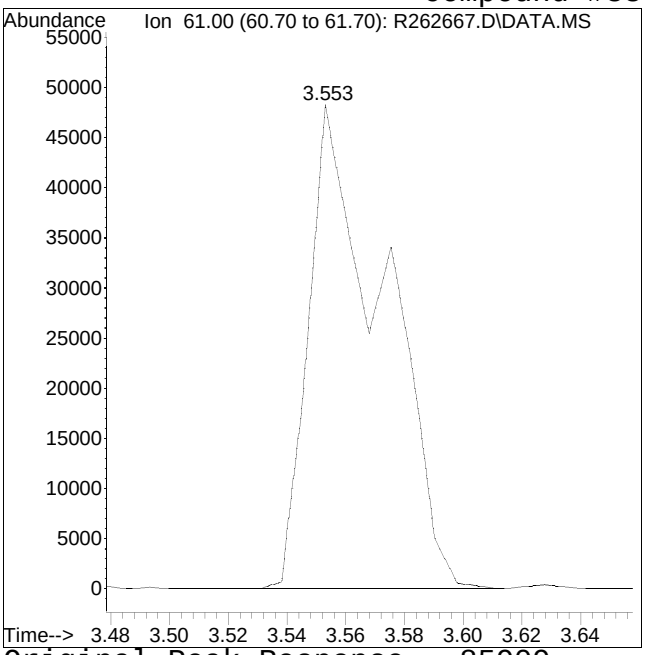
Manual Peak Response = 109181 M6

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

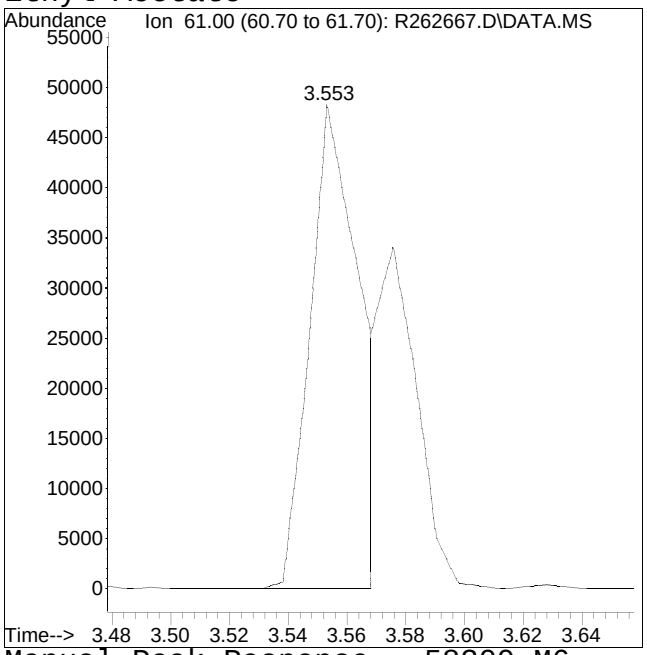
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #38: Ethyl Acetate



Original Peak Response = 85909



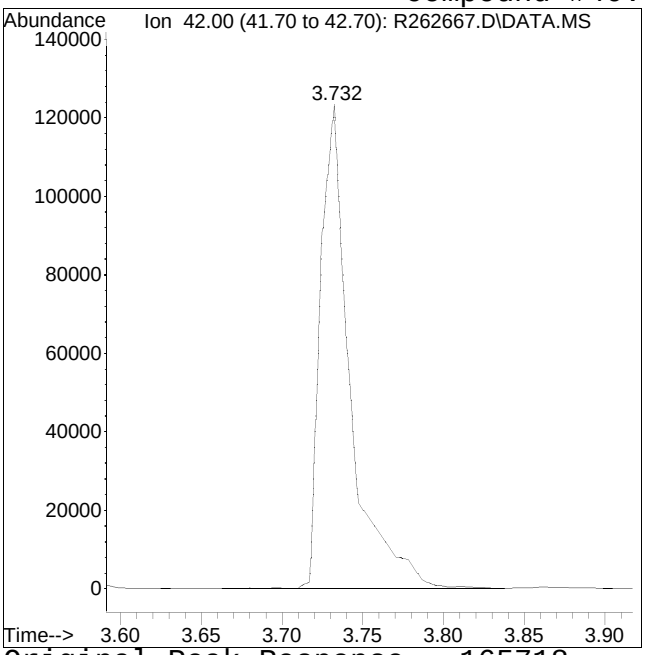
Manual Peak Response = 58300 M6

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

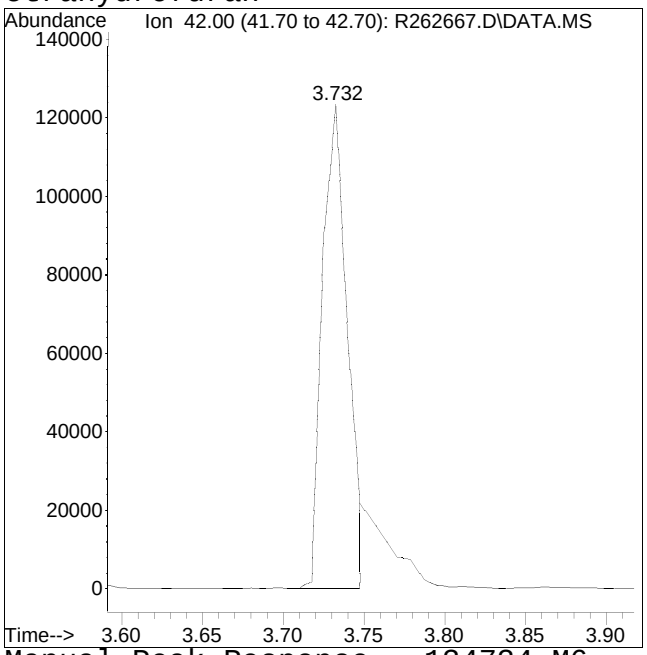
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 165718



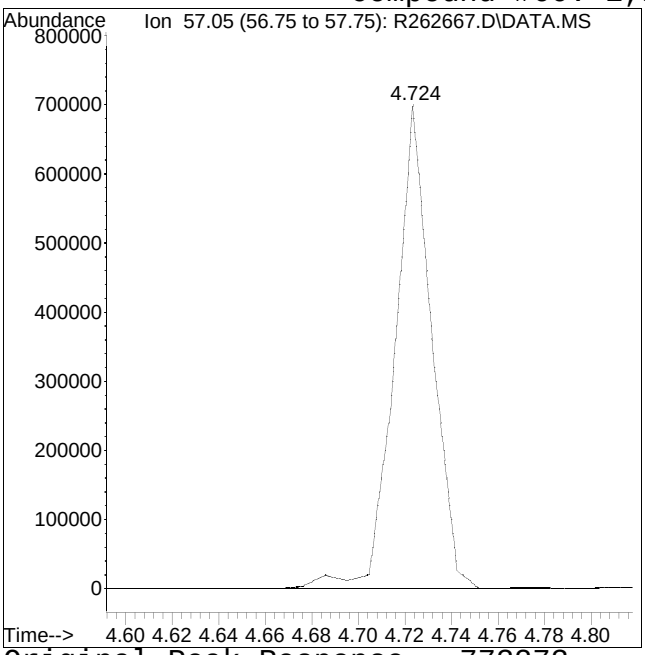
Manual Peak Response = 134734 M6

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

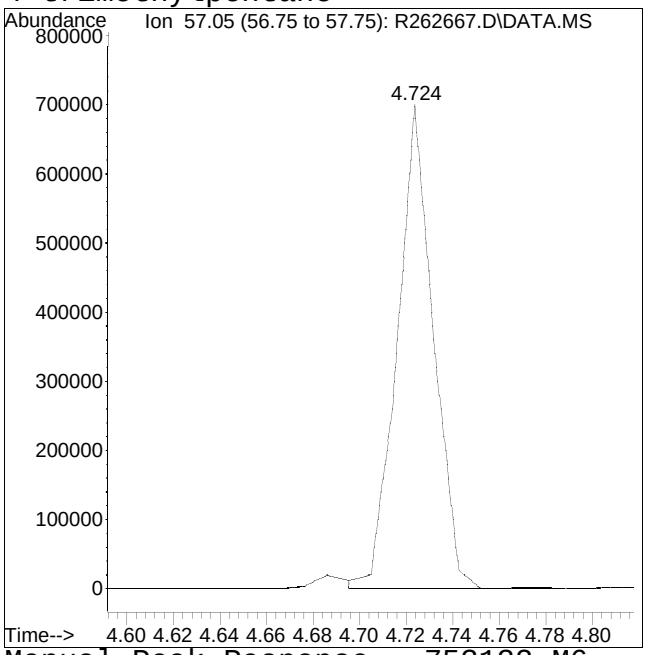
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 773273



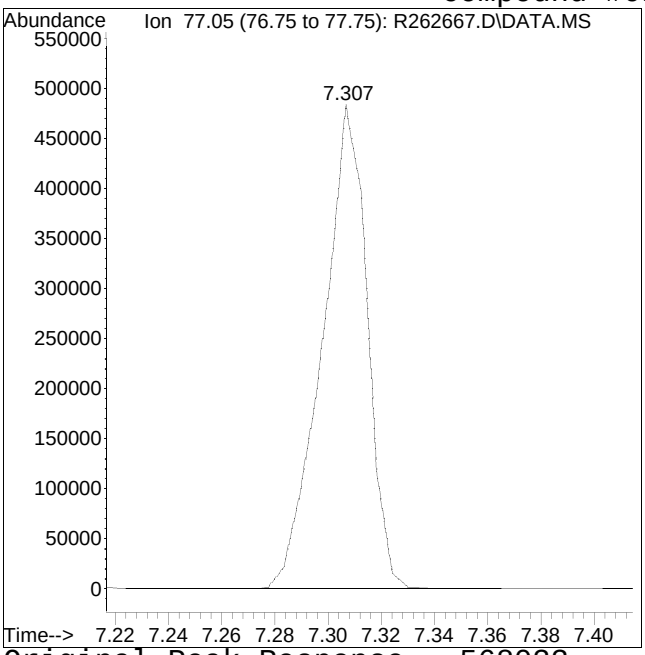
Manual Peak Response = 753132 M6

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

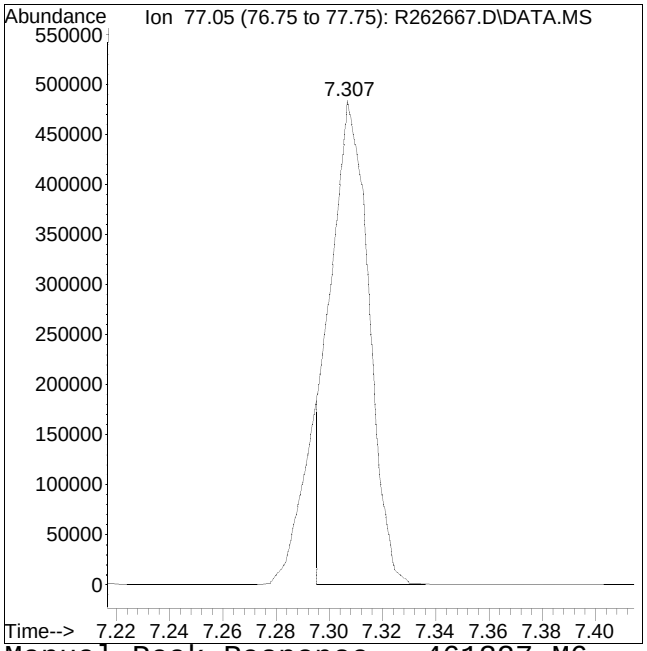
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #92: bromobenzene



Original Peak Response = 568033



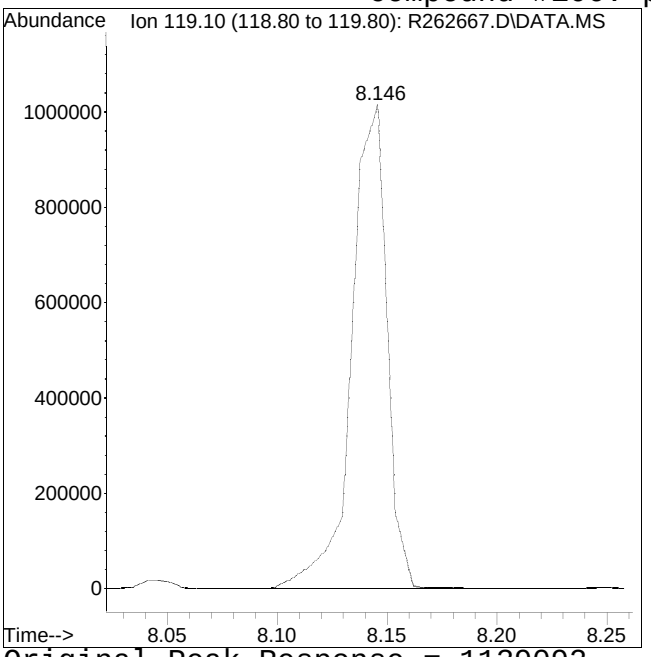
Manual Peak Response = 461327 M6

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

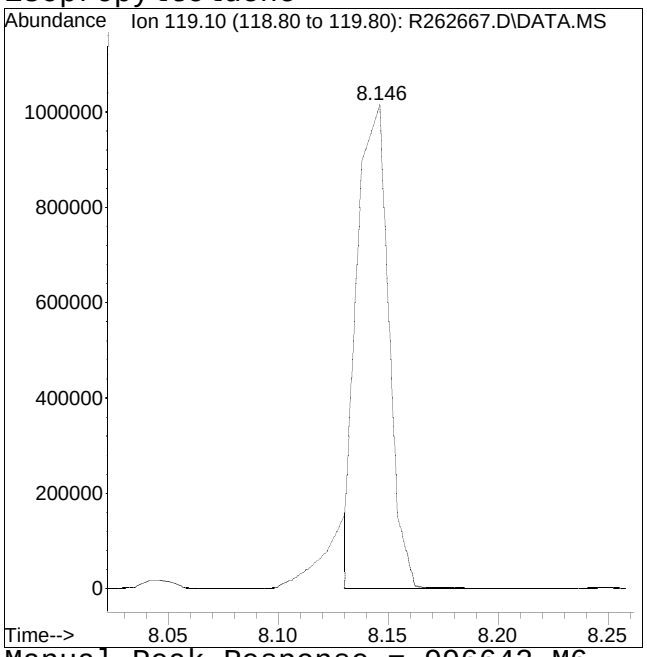
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R262667.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:34 pm Instrument : Airlab26
Sample : CTO15-LLSTD010 Quant Date : 4/3/2025 8:45 pm

Compound #106: p-isopropyltoluene



Original Peak Response = 1139092



Manual Peak Response = 996642 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC		Lab Number	: L2522632	
Project Name	: 458 E 99TH ST		Project Number	: 4078.0001Y000	
Instrument ID	: AIRLAB26		Calibration Date	: 04/22/25 13:33	
Lab File ID	: R263180		Init. Calib. Date(s)	: 04/03/25	04/03/25
Sample No	: WG2057225-2		Init. Calib. Times	: 02:36	06:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	82	0
chlorodifluoromethane	0.387	0.935	-	-141.6*	30	169	0
propylene	0.576	0.513	-	10.9	30	76	0
propane	0.352	0.305	-	13.4	30	80	0
dichlorodifluoromethane	2.163	2.337	-	-8	30	92	0
chloromethane	0.641	0.662	-	-3.3	30	90	0
Freon-114	2.25	2.707	-	-20.3	30	102	0
methanol	0.135	0.163	-	-20.7	30	100	0
vinyl chloride	0.803	0.952	-	-18.6	30	103	0
1,3-butadiene	0.58	0.591	-	-1.9	30	93	0
butane	0.937	0.885	-	5.5	30	83	0
bromomethane	0.833	1.012	-	-21.5	30	103	0
chloroethane	0.467	0.51	-	-9.2	30	98	0
ethanol	0.336	0.302	-	10.1	30	78	0
dichlorofluoromethane	1.932	1.848	-	4.3	30	85	0
vinyl bromide	0.896	1.107	-	-23.5	30	112	0
acrolein	0.338	0.305	-	9.8	30	75	0
acetone	0.824	0.928	-	-12.6	30	98	0
acetonitrile	0.581	0.55	-	5.3	30	88	0
trichlorofluoromethane	1.978	2.31	-	-16.8	30	99	0
isopropyl alcohol	0.983	0.883	-	10.2	30	86	0
acrylonitrile	0.609	0.63	-	-3.4	30	87	0
pentane	1.078	1.169	-	-8.4	30	85	0
ethyl ether	0.52	0.455	-	12.5	30	76	0
1,1-dichloroethene	1.183	1.532	-	-29.5	30	104	0
tertiary butyl alcohol	1.471	1.388	-	5.6	30	87	0
methylene chloride	0.681	0.795	-	-16.7	30	101	0
3-chloropropene	0.711	0.74	-	-4.1	30	91	0
carbon disulfide	2.1	2.429	-	-15.7	30	97	0
Freon 113	1.704	2.044	-	-20	30	101	0
trans-1,2-dichloroethene	0.985	1.097	-	-11.4	30	94	0
1,1-dichloroethane	1.343	1.535	-	-14.3	30	98	0
MTBE	2.095	2.226	-	-6.3	30	90	0
vinyl acetate	1.369	0.962	-	29.7	30	60	0
2-butanone	1.357	1.271	-	6.3	30	83	0
cis-1,2-dichloroethene	1.13	1.17	-	-3.5	30	88	0
Ethyl Acetate	0.301	0.269	-	10.6	30	69	0
chloroform	1.826	1.971	-	-7.9	30	91	0
Tetrahydrofuran	0.659	0.69	-	-4.7	30	92	0
2,2-dichloropropane	1.537	1.359	-	11.6	30	75	0
1,2-dichloroethane	1.076	1.102	-	-2.4	30	88	0
1,4-difluorobenzene	1	1	-	0	30	78	0
hexane	0.295	0.308	-	-4.4	30	88	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC		Lab Number	: L2522632	
Project Name	: 458 E 99TH ST		Project Number	: 4078.0001Y000	
Instrument ID	: AIRLAB26		Calibration Date	: 04/22/25 13:33	
Lab File ID	: R263180		Init. Calib. Date(s)	: 04/03/25	04/03/25
Sample No	: WG2057225-2		Init. Calib. Times	: 02:36	06:40
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.233	0.236	-	-1.3	30	80	0
tert-butyl ethyl ether	0.631	0.5	-	20.8	30	69	0
1,1,1-trichloroethane	0.443	0.479	-	-8.1	30	87	0
1,1-dichloropropene	0.355	0.382	-	-7.6	30	81	0
benzene	0.685	0.741	-	-8.2	30	87	0
carbon tetrachloride	0.456	0.496	-	-8.8	30	87	0
cyclohexane	0.293	0.296	-	-1	30	82	0
tert-amyl methyl ether	0.622	0.59	-	5.1	30	76	0
dibromomethane	0.262	0.268	-	-2.3	30	82	0
1,2-dichloropropane	0.229	0.257	-	-12.2	30	91	0
bromodichloromethane	0.445	0.504	-	-13.3	30	89	0
1,4-dioxane	0.15	0.162	-	-8	30	89	0
trichloroethene	0.355	0.383	-	-7.9	30	87	0
2,2,4-trimethylpentane	0.897	0.971	-	-8.2	30	88	0
methyl methacrylate	0.217	0.198	-	8.8	30	73	0
heptane	0.286	0.289	-	-1	30	84	0
cis-1,3-dichloropropene	0.363	0.423	-	-16.5	30	91	0
4-methyl-2-pentanone	0.357	0.377	-	-5.6	30	82	0
trans-1,3-dichloropropene	0.289	0.359	-	-24.2	30	97	0
1,1,2-trichloroethane	0.296	0.344	-	-16.2	30	90	0
chlorobenzene-D5	1	1	-	0	30	77	0
toluene	7.247	7.958	-	-9.8	30	87	0
1,3-dichloropropane	3.233	3.2	-	1	30	79	0
2-hexanone	2.851	2.966	-	-4	30	80	0
dibromochloromethane	4.114	4.807	-	-16.8	30	89	0
1,2-dibromoethane	3.835	4.578	-	-19.4	30	93	0
butyl acetate	0.862	0.843	-	2.2	30	75	0
octane	2.37	2.228	-	6	30	75	0
tetrachloroethene	3.816	4.155	-	-8.9	30	89	0
1,1,1,2-tetrachloroethane	3.062	2.955	-	3.5	30	75	0
chlorobenzene	5.992	6.591	-	-10	30	86	0
ethylbenzene	9.284	10.01	-	-7.8	30	85	0
m+p-xylene	7.256	8.105	-	-11.7	30	87	0
bromoform	4.043	4.801	-	-18.7	30	89	0
styrene	5.798	6.464	-	-11.5	30	86	0
1,1,2,2-tetrachloroethane	5.215	6.259	-	-20	30	94	0
o-xylene	7.144	7.915	-	-10.8	30	88	0
1,2,3-trichloropropane	3.742	3.798	-	-1.5	30	80	0
nonane	3.46	3.331	-	3.7	30	75	0
isopropylbenzene	10.228	10.401	-	-1.7	30	79	0
bromobenzene	4.707	5.591	-	-18.8	30	72	0
2-chlorotoluene	2.841	2.739	-	3.6	30	76	0
n-propylbenzene	3.073	3.021	-	1.7	30	77	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632		
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000		
Instrument ID	: AIRLAB26	**Calibration Date**	: 04/22/25 13:33		
Lab File ID	: R263180	**Init. Calib. Date(s)**	: 04/03/25	04/03/25	
Sample No	: WG2057225-2	**Init. Calib. Times**	: 02:36	06:40	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.842	2.751	-	3.2	30	75	0
4-ethyl toluene	10.014	11.227	-	-12.1	30	86	0
1,3,5-trimethylbenzene	8.578	9.565	-	-11.5	30	86	0
tert-butylbenzene	9.695	9.826	-	-1.4	30	79	0
1,2,4-trimethylbenzene	8.742	10.164	-	-16.3	30	90	0
decane	4.736	4.549	-	3.9	30	76	0
Benzyl Chloride	6.962	5.818	-	16.4	30	63	0
1,3-dichlorobenzene	6.413	7.666	-	-19.5	30	93	0
1,4-dichlorobenzene	6.475	7.447	-	-15	30	90	0
sec-butylbenzene	12.685	12.653	-	0.3	30	77	0
p-isopropyltoluene	10.985	11.69	-	-6.4	30	85	0
1,2-dichlorobenzene	6.293	7.268	-	-15.5	30	89	0
n-butylbenzene	10.051	10.364	-	-3.1	30	79	0
1,2-dibromo-3-chloropropan	2.495	2.311	-	7.4	30	70	0
undecane	5.939	5.377	-	9.5	30	71	0
dodecane	6.42	6.663	-	-3.8	30	71	0
1,2,4-trichlorobenzene	6.097	6.726	-	-10.3	30	83	0
naphthalene	13.634	12.178	-	10.7	30	64	0
1,2,3-trichlorobenzene	5.995	5.822	-	2.9	30	67	0
hexachlorobutadiene	5.056	5.277	-	-4.4	30	81	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	82	0.00
2		chlorodifluoromethane	0.387	0.935	-141.6#	169#	0.00
3		propylene	0.576	0.513	10.9	76	0.00
4		propane	0.352	0.305	13.4	80	0.00
5		dichlorodifluoromethane	2.163	2.337	-8.0	92	0.00
6	C	chloromethane	0.641	0.662	-3.3	90	0.00
7		Freon-114	2.250	2.707	-20.3	102	0.00
8	C	methanol	0.135	0.163	-20.7	100	0.00
9	C	vinyl chloride	0.803	0.952	-18.6	103	0.00
10	C	1,3-butadiene	0.580	0.591	-1.9	93	0.00
11		butane	0.937	0.885	5.5	83	0.00
13	C	bromomethane	0.833	1.012	-21.5	103	0.00
14	C	chloroethane	0.467	0.510	-9.2	98	0.00
15		ethanol	0.336	0.302	10.1	78	0.00
16		dichlorofluoromethane	1.932	1.848	4.3	85	0.00
17	C	vinyl bromide	0.896	1.107	-23.5	112	0.00
18	C	acrolein	0.338	0.305	9.8	75	0.00
19		acetone	0.824	0.928	-12.6	98	0.00
20	C	acetonitrile	0.581	0.550	5.3	88	0.00
21		trichlorofluoromethane	1.978	2.310	-16.8	99	0.00
22		isopropyl alcohol	0.983	0.883	10.2	86	0.00
23	C	acrylonitrile	0.609	0.630	-3.4	87	0.00
24		pentane	1.078	1.169	-8.4	85	0.00
25		ethyl ether	0.520	0.455	12.5	76	0.00
26	C	1,1-dichloroethene	1.183	1.532	-29.5	104	0.00
27		tertiary butyl alcohol	1.471	1.388	5.6	87	0.00
28	C	methylene chloride	0.681	0.795	-16.7	101	0.00
29	C	3-chloropropene	0.711	0.740	-4.1	91	0.00
30	C	carbon disulfide	2.100	2.429	-15.7	97	0.00
31		Freon 113	1.704	2.044	-20.0	101	0.00
32		trans-1,2-dichloroethene	0.985	1.097	-11.4	94	0.00
33	C	1,1-dichloroethane	1.343	1.535	-14.3	98	0.00
34	C	MTBE	2.095	2.226	-6.3	90	0.00
35	C	vinyl acetate	1.369	0.962	29.7	60#	0.00
36	C	2-butanone	1.357	1.271	6.3	83	0.00
37		cis-1,2-dichloroethene	1.130	1.170	-3.5	88	0.00
38		Ethyl Acetate	0.301	0.269	10.6	69	0.00
39	C	chloroform	1.826	1.971	-7.9	91	0.00
40		Tetrahydrofuran	0.659	0.690	-4.7	92	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	1.537	1.359	11.6	75	0.00
42	C	1,2-dichloroethane	1.076	1.102	-2.4	88	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	78	0.00
44	C	hexane	0.295	0.308	-4.4	88	0.00
45		diisopropyl ether	0.233	0.236	-1.3	80	0.00
46		tert-butyl ethyl ether	0.631	0.500	20.8	69	0.00
48	C	1,1,1-trichloroethane	0.443	0.479	-8.1	87	0.00
49		1,1-dichloropropene	0.355	0.382	-7.6	81	0.00
50	C	benzene	0.685	0.741	-8.2	87	0.00
52	C	carbon tetrachloride	0.456	0.496	-8.8	87	0.00
53		cyclohexane	0.293	0.296	-1.0	82	0.00
54		tert-amyl methyl ether	0.622	0.590	5.1	76	0.00
55		dibromomethane	0.262	0.268	-2.3	82	0.00
56	C	1,2-dichloropropane	0.229	0.257	-12.2	91	0.00
57		bromodichloromethane	0.445	0.504	-13.3	89	0.00
58	C	1,4-dioxane	0.150	0.162	-8.0	89	0.00
59	C	trichloroethene	0.355	0.383	-7.9	87	0.00
60	C	2,2,4-trimethylpentane	0.897	0.971	-8.2	88	0.00
61		methyl methacrylate	0.217	0.198	8.8	73	0.00
62		heptane	0.286	0.289	-1.0	84	0.00
63	C	cis-1,3-dichloropropene	0.363	0.423	-16.5	91	0.00
64	C	4-methyl-2-pentanone	0.357	0.377	-5.6	82	0.00
65		trans-1,3-dichloropropene	0.289	0.359	-24.2	97	0.00
66	C	1,1,2-trichloroethane	0.296	0.344	-16.2	90	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	77	0.00
68	C	toluene	7.247	7.958	-9.8	87	0.00
71		1,3-dichloropropane	3.233	3.200	1.0	79	0.00
72		2-hexanone	2.851	2.966	-4.0	80	0.00
74		dibromochloromethane	4.114	4.807	-16.8	89	0.00
75	C	1,2-dibromoethane	3.835	4.578	-19.4	93	0.00
76		butyl acetate	0.862	0.843	2.2	75	0.00
77		octane	2.370	2.228	6.0	75	0.00
78	C	tetrachloroethene	3.816	4.155	-8.9	89	0.00
79		1,1,1,2-tetrachloroethane	3.062	2.955	3.5	75	0.00
80	C	chlorobenzene	5.992	6.591	-10.0	86	0.00
81	C	ethylbenzene	9.284	10.010	-7.8	85	0.00
83	C	m+p-xylene	7.256	8.105	-11.7	87	0.00

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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)
84	C	bromoform	4.043	4.801	-18.7	89	0.00
85	C	styrene	5.798	6.464	-11.5	86	0.00
86	C	1,1,2,2-tetrachloroethane	5.215	6.259	-20.0	94	0.00
87	C	o-xylene	7.144	7.915	-10.8	88	0.00
88		1,2,3-trichloropropane	3.742	3.798	-1.5	80	0.00
89		nonane	3.460	3.331	3.7	75	0.00
91	C	isopropylbenzene	10.228	10.401	-1.7	79	0.00
92		bromobenzene	4.707	5.591	-18.8	72	0.00
93		2-chlorotoluene	2.841	2.739	3.6	76	0.00
94		n-propylbenzene	3.073	3.021	1.7	77	0.00
95		4-chlorotoluene	2.842	2.751	3.2	75	0.00
96		4-ethyl toluene	10.014	11.227	-12.1	86	0.00
97		1,3,5-trimethylbenzene	8.578	9.565	-11.5	86	0.00
98		tert-butylbenzene	9.695	9.826	-1.4	79	0.00
99		1,2,4-trimethylbenzene	8.742	10.164	-16.3	90	0.00
100		decane	4.736	4.549	3.9	76	0.00
101	C	Benzyl Chloride	6.962	5.818	16.4	63	0.00
102		1,3-dichlorobenzene	6.413	7.666	-19.5	93	0.00
103	C	1,4-dichlorobenzene	6.475	7.447	-15.0	90	0.00
104		sec-butylbenzene	12.685	12.653	0.3	77	0.00
106		p-isopropyltoluene	10.985	11.690	-6.4	85	0.00
107		1,2-dichlorobenzene	6.293	7.268	-15.5	89	0.00
108		n-butylbenzene	10.051	10.364	-3.1	79	0.00
111	C	1,2-dibromo-3-chloropropane	2.495	2.311	7.4	70	0.00
112		undecane	5.939	5.377	9.5	71	0.00
114		dodecane	6.420	6.663	-3.8	71	0.00
115	C	1,2,4-trichlorobenzene	6.097	6.726	-10.3	83	0.00
116		naphthalene	13.634	12.178	10.7	64	0.00
117		1,2,3-trichlorobenzene	5.995	5.822	2.9	67	0.00
119	C	hexachlorobutadiene	5.056	5.277	-4.4	81	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\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.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	158106	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 100.00%			
43) 1,4-difluorobenzene	4.366	114	650619	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 100.00%			
67) chlorobenzene-D5	6.449	54	77867	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	1.992	51	147907	24.160	ppbV #	71
3) propylene	2.002	41	81132M6	8.912	ppbV	
4) propane	2.008	29	48179	8.659	ppbV #	72
5) dichlorodifluoromethane	2.024	85	369461	10.804	ppbV	100
6) chloromethane	2.074	50	104736	10.340	ppbV	97
7) Freon-114	2.107	85	428036	12.030	ppbV	99
8) methanol	2.123	31	128821	60.500	ppbV #	75
9) vinyl chloride	2.145	62	150546	11.852	ppbV	96
10) 1,3-butadiene	2.189	54	93482	10.191	ppbV	93
11) butane	2.206	43	139981	9.446	ppbV	100
13) bromomethane	2.272	94	159953	12.146	ppbV	99
14) chloroethane	2.327	64	80671	10.928	ppbV	98
15) ethanol	2.359	31	238945	45.027	ppbV	99
16) dichlorofluoromethane	2.354	67	292215	9.568	ppbV	100
17) vinyl bromide	2.432	106	175088	12.356	ppbV	97
18) acrolein	2.466	56	48161	9.025	ppbV	97
19) acetone	2.500	43	733313	56.290	ppbV	97
20) acetonitrile	2.426	41	86965	9.472	ppbV	97
21) trichlorofluoromethane	2.551	101	365154	11.678	ppbV	98
22) isopropyl alcohol	2.562	45	348935	22.444	ppbV	99
23) acrylonitrile	2.625	53	99552	10.336	ppbV	97
24) pentane	2.647	43	184777	10.839	ppbV	99
25) ethyl ether	2.653	31	71989	8.751	ppbV	96
26) 1,1-dichloroethene	2.727	61	242221	12.945	ppbV	95
27) tertiary butyl alcohol	2.732	59	219381	9.436	ppbV	98
28) methylene chloride	2.755	49	125724	11.680	ppbV	97
29) 3-chloropropene	2.794	41	117010	10.402	ppbV	95
30) carbon disulfide	2.846	76	384080	11.568	ppbV	98
31) Freon 113	2.841	101	323215	11.998	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) trans-1,2-dichloroethene	3.058	61	173454	11.139	ppbV		98
33) 1,1-dichloroethane	3.129	63	242650	11.430	ppbV		99
34) MTBE	3.155	73	352000	10.625	ppbV		99
35) vinyl acetate	3.191	43	152151	7.031	ppbV		96
36) 2-butanone	3.279	43	200992	9.371	ppbV		98
37) cis-1,2-dichloroethene	3.441	61	185020	10.356	ppbV		97
38) Ethyl Acetate	3.553	61	42588M6	8.936	ppbV		
39) chloroform	3.561	83	311559	10.793	ppbV		99
40) Tetrahydrofuran	3.725	42	109033M6	10.467	ppbV		
41) 2,2-dichloropropane	3.576	77	214920	8.843	ppbV		98
42) 1,2-dichloroethane	3.868	62	174286	10.245	ppbV		99
44) hexane	3.546	57	200300	10.450	ppbV	#	75
45) diisopropyl ether	3.546	87	153763	10.127	ppbV		90
46) tert-butyl ethyl ether	3.771	59	325634	7.934	ppbV		97
48) 1,1,1-trichloroethane	3.982	97	311482	10.803	ppbV		99
49) 1,1-dichloropropene	4.120	75	248829	10.761	ppbV		99
50) benzene	4.177	78	482430	10.831	ppbV		98
52) carbon tetrachloride	4.252	117	322662	10.887	ppbV		100
53) cyclohexane	4.309	56	192869	10.111	ppbV		98
54) tert-amyl methyl ether	4.479	73	383693	9.488	ppbV		99
55) dibromomethane	4.545	93	174570	10.235	ppbV		99
56) 1,2-dichloropropane	4.563	63	167068	11.236	ppbV		99
57) bromodichloromethane	4.658	83	327950	11.316	ppbV		100
58) 1,4-dioxane	4.686	88	105526	10.789	ppbV		100
59) trichloroethene	4.686	130	249250	10.799	ppbV		98
60) 2,2,4-trimethylpentane	4.724	57	631684	10.825	ppbV		100
61) methyl methacrylate	4.809	41	128689	9.096	ppbV		96
62) heptane	4.865	43	187913	10.098	ppbV		99
63) cis-1,3-dichloropropene	5.110	75	274959	11.645	ppbV		99
64) 4-methyl-2-pentanone	5.142	43	245569	10.558	ppbV		99
65) trans-1,3-dichloropropene	5.374	75	233280	12.388	ppbV		99
66) 1,1,2-trichloroethane	5.445	97	223848	11.618	ppbV		98
68) toluene	5.589	91	619664	10.981	ppbV		99
71) 1,3-dichloropropane	5.605	76	249157	9.899	ppbV		98
72) 2-hexanone	5.749	43	230957	10.405	ppbV		98
74) dibromochloromethane	5.781	129	374304	11.685	ppbV		98
75) 1,2-dibromoethane	5.892	107	356474	11.938	ppbV		96
76) butyl acetate	6.092	73	65659	9.777	ppbV		98
77) octane	6.132	85	173526	9.404	ppbV		96
78) tetrachloroethene	6.140	166	323506	10.887	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Default-LCS-AP2 - All compounds listed

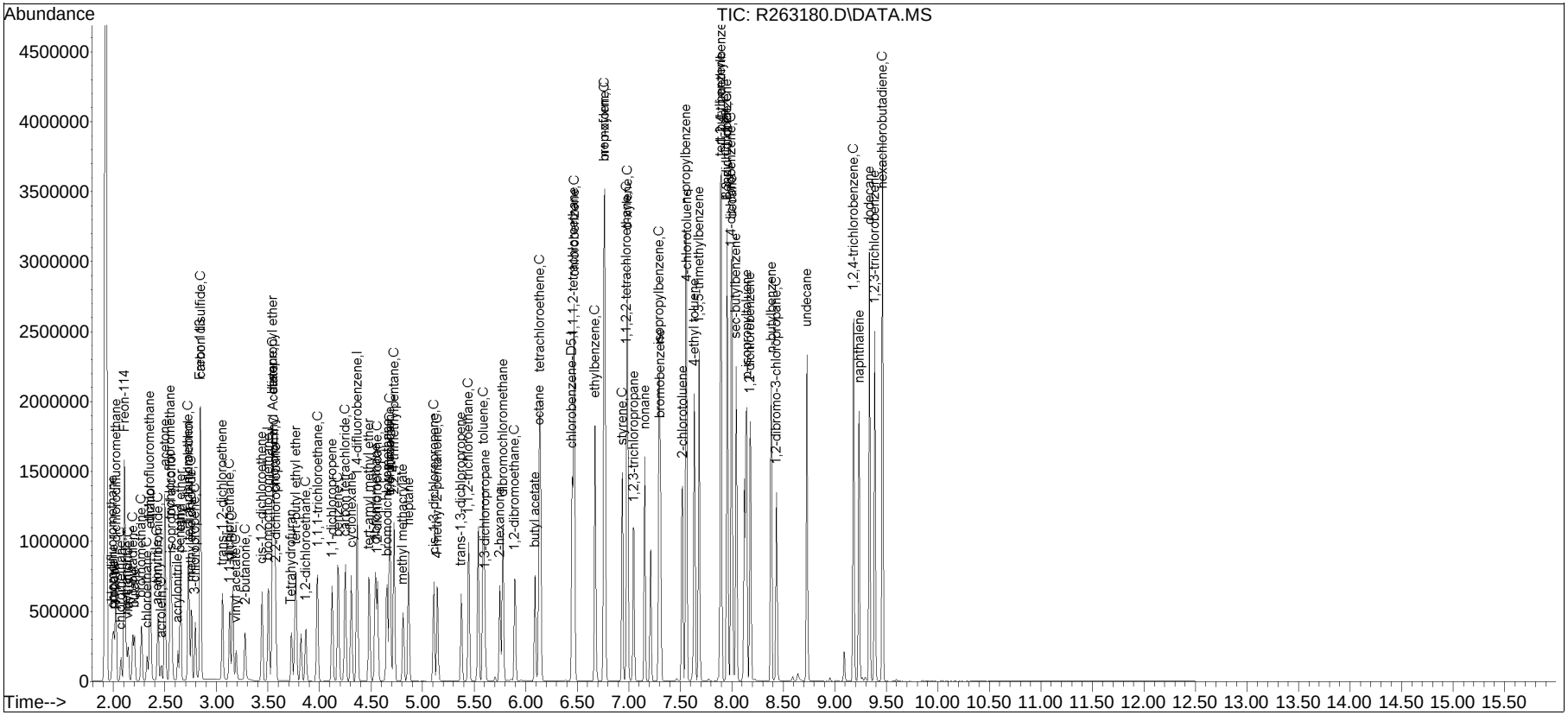
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	6.466	131	230110	9.651	ppbV	98
80) chlorobenzene	6.471	112	513228	11.000	ppbV	98
81) ethylbenzene	6.673	91	779420	10.781	ppbV	99
83) m+p-xylene	6.766	91	1262213	22.341	ppbV	100
84) bromoform	6.766	173	373810	11.873	ppbV	99
85) styrene	6.940	104	503365	11.150	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	487356	12.001	ppbV	99
87) o-xylene	6.987	91	616307	11.080	ppbV	97
88) 1,2,3-trichloropropane	7.051	75	295772	10.152	ppbV	96
89) nonane	7.156	43	259340	9.625	ppbV	100
91) isopropylbenzene	7.295	105	809921	10.170	ppbV	98
92) bromobenzene	7.307	77	435328M6	11.878	ppbV	
93) 2-chlorotoluene	7.523	126	213252	9.639	ppbV	94
94) n-propylbenzene	7.555	120	235216	9.829	ppbV	90
95) 4-chlorotoluene	7.563	126	214219	9.681	ppbV	89
96) 4-ethyl toluene	7.635	105	874249	11.212	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	744787	11.150	ppbV	98
98) tert-butylbenzene	7.891	119	765134	10.135	ppbV	97
99) 1,2,4-trimethylbenzene	7.899	105	791470	11.627	ppbV	98
100) decane	8.002	57	354221	9.605	ppbV	99
101) Benzyl Chloride	7.954	91	453027	8.357	ppbV	99
102) 1,3-dichlorobenzene	7.954	146	596903	11.954	ppbV	96
103) 1,4-dichlorobenzene	7.994	146	579875	11.501	ppbV	99
104) sec-butylbenzene	8.042	105	985235	9.974	ppbV	100
106) p-isopropyltoluene	8.146	119	910230	10.641	ppbV	97
107) 1,2-dichlorobenzene	8.178	146	565899	11.549	ppbV	96
108) n-butylbenzene	8.386	91	807033	10.312	ppbV	97
111) 1,2-dibromo-3-chloropr...	8.433	75	179949	9.261	ppbV	96
112) undecane	8.729	57	418665	9.053	ppbV	99
114) dodecane	9.336	57	518790	10.378	ppbV	100
115) 1,2,4-trichlorobenzene	9.184	180	523709	11.032	ppbV	98
116) naphthalene	9.236	128	948267	8.932	ppbV	98
117) 1,2,3-trichlorobenzene	9.388	180	453359	9.711	ppbV	96
119) hexachlorobutadiene	9.464	225	410897	10.436	ppbV	95

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

Sub List : Default-LCS-AP2 - All compounds listedR263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-2,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

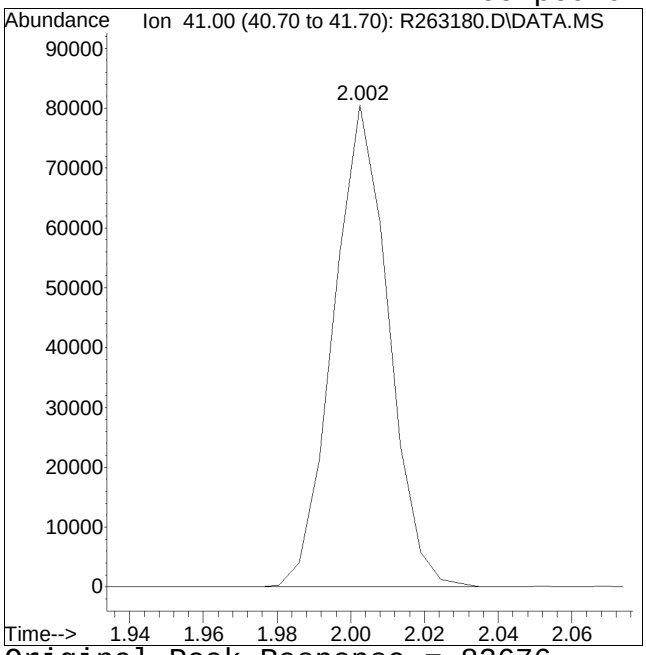
Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration



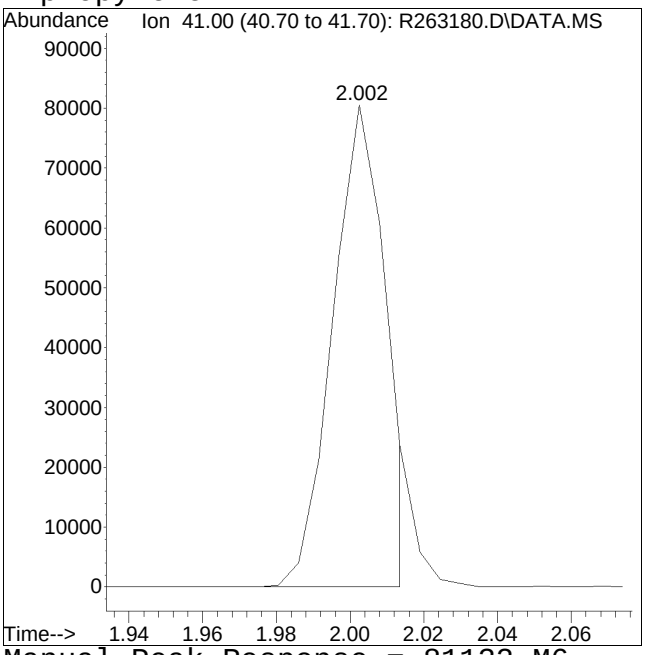
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-2,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #3: propylene



Original Peak Response = 83676



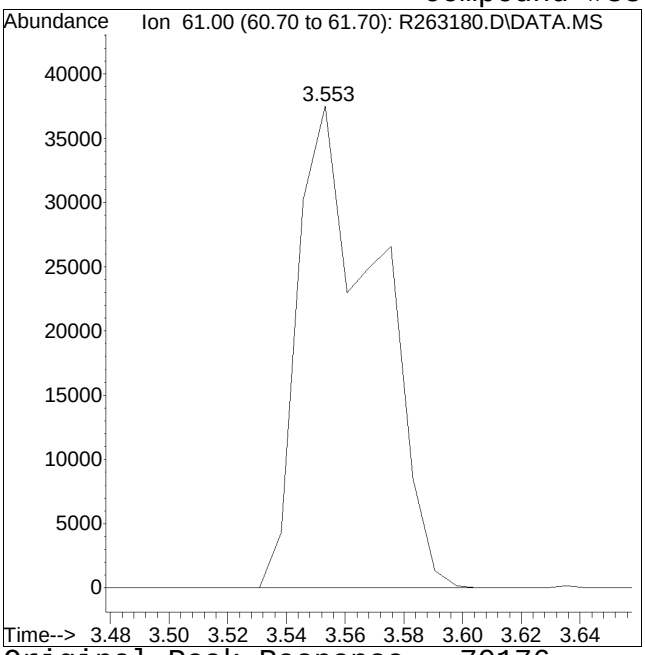
Manual Peak Response = 81132 M6

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

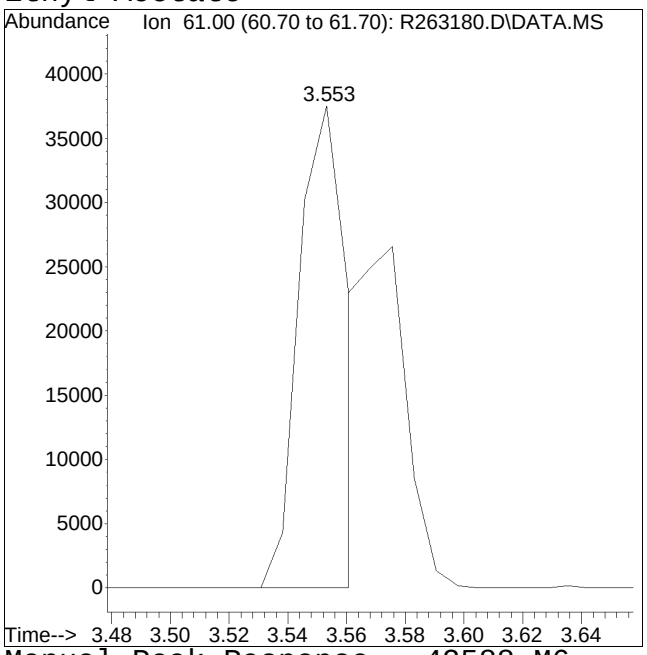
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-2,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #38: Ethyl Acetate



Original Peak Response = 70176



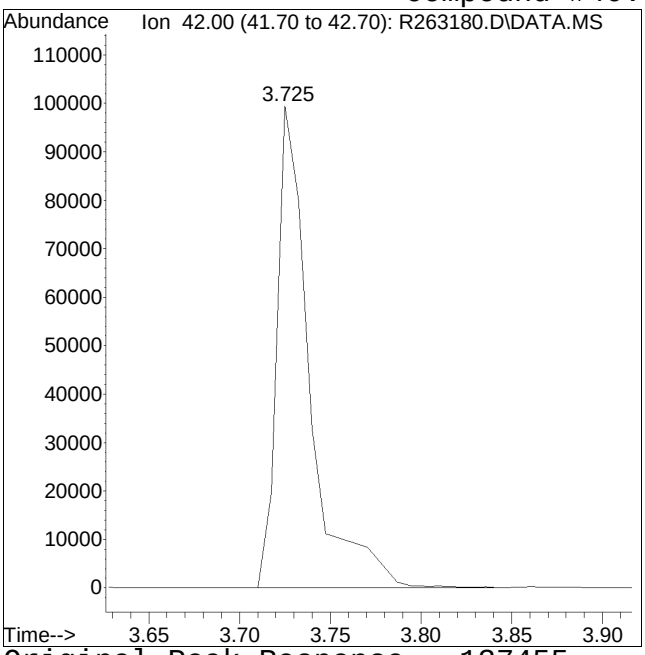
Manual Peak Response = 42588 M6

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

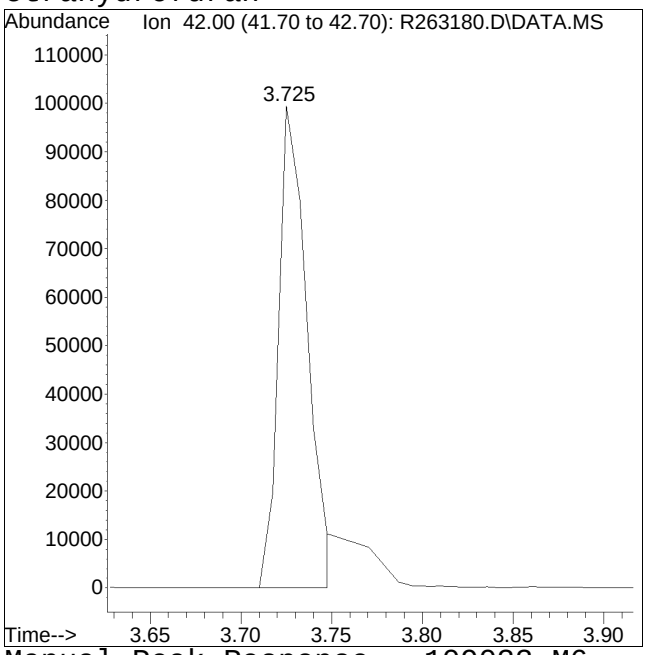
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-2,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 137455



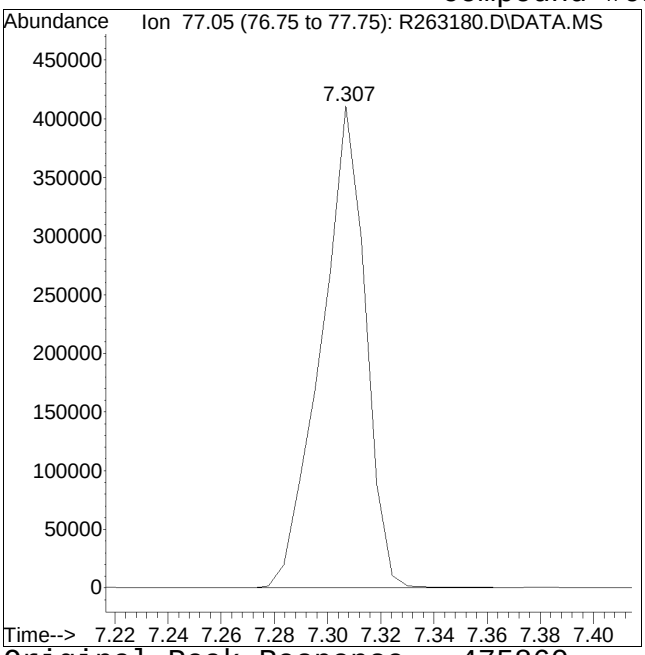
Manual Peak Response = 109033 M6

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

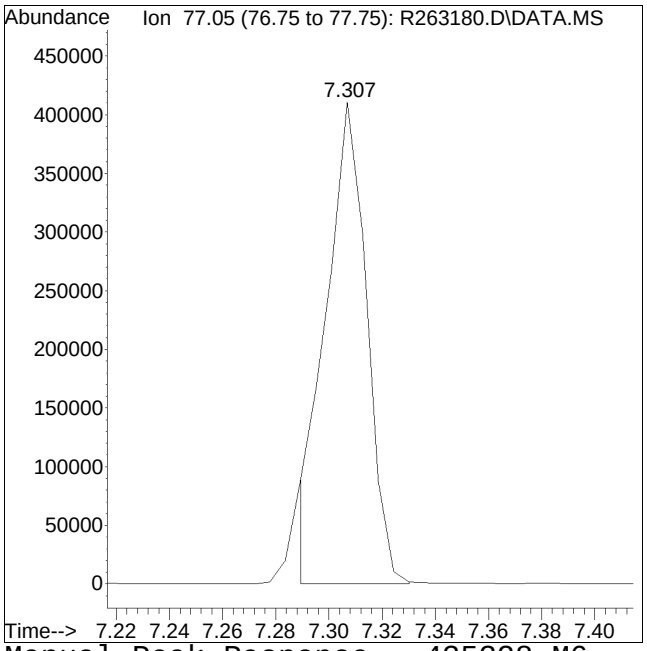
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-2,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #92: bromobenzene



Original Peak Response = 475860



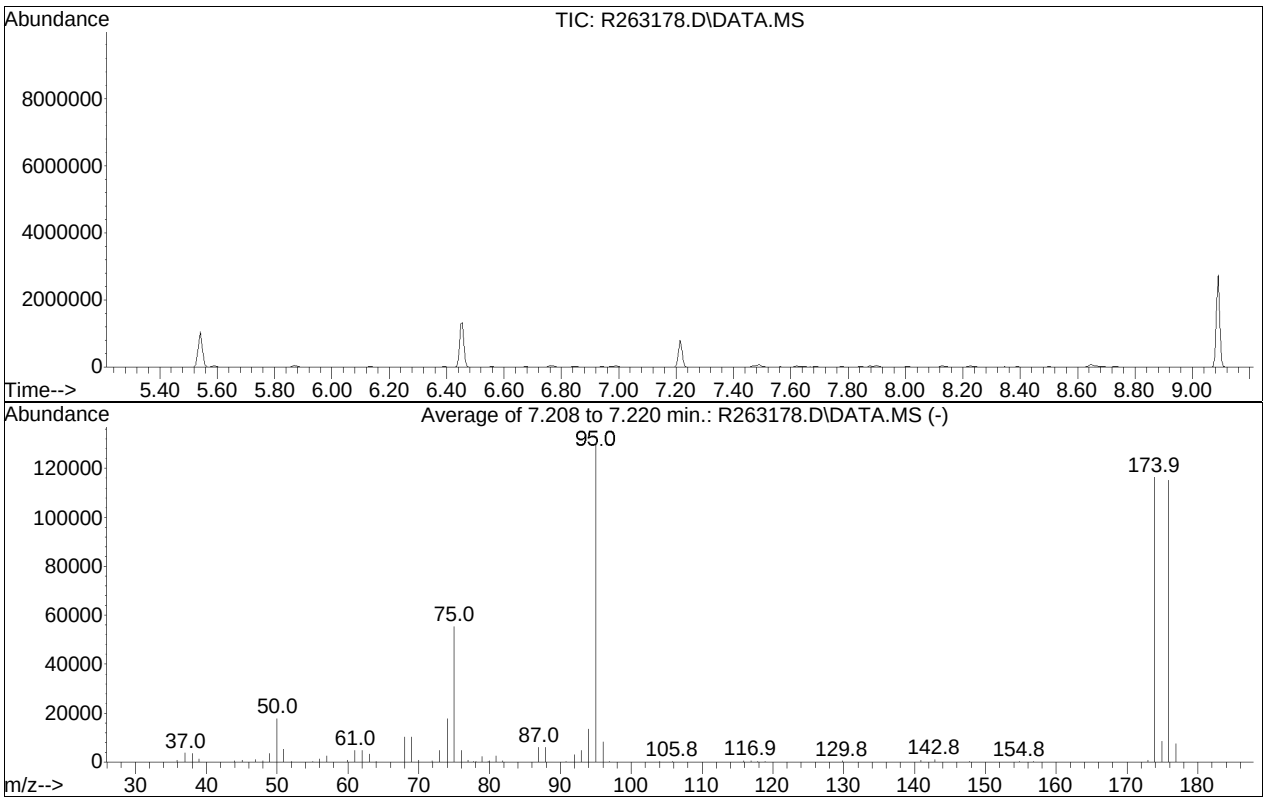
Manual Peak Response = 435328 M6

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

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263178.D
Acq On : 22 Apr 2025 12:15 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-1,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 13:02:01 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	13.6	17787	PASS
75	95	30	66	42.5	55416	PASS
95	95	100	100	100.0	130531	PASS
96	95	5	9	6.5	8425	PASS
173	174	0.00	2	0.7	805	PASS
174	95	50	120	89.2	116432	PASS
175	174	4	9	7.4	8590	PASS
176	174	93	101	99.0	115283	PASS
177	176	5	9	6.4	7405	PASS

Volatiles Raw QC Data

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263182.D
Acq On : 22 Apr 2025 03:32 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-4,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:57:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.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	159716	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 101.02%			
43) 1,4-difluorobenzene	4.365	114	663892	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 102.04%			
67) chlorobenzene-D5	6.455	54	79944	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 102.67%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	2.365	31	4798	0.895	ppbV	83
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.506	43	2033	0.154	ppbV #	94
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	2.574	45	1727	0.110	ppbV #	84
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	2.751		0	N.D.		
28) methylene chloride	2.755	49	467	0.043	ppbV	87
29) 3-chloropropene	2.779		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	3.292		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263182.D
Acq On : 22 Apr 2025 03:32 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-4,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:57:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.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	4.186		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D. d		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589		0	N.D.		
72) 2-hexanone	0.000		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	6.771		0	N.D.		
83) m+p-xylene	6.771		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	6.940		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	6.993		0	N.D.		
96) 4-ethyl toluene	7.651		0	N.D.		
97) 1,3,5-trimethylbenzene	7.691		0	N.D.		
99) 1,2,4-trimethylbenzene	7.907		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	7.962		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	9.195		0	N.D.		
116) naphthalene	9.242	128	3670	0.034	ppbV	97
119) hexachlorobutadiene	9.470		0	N.D.		

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

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263182.D
Acq On : 22 Apr 2025 03:32 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-4,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:57:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

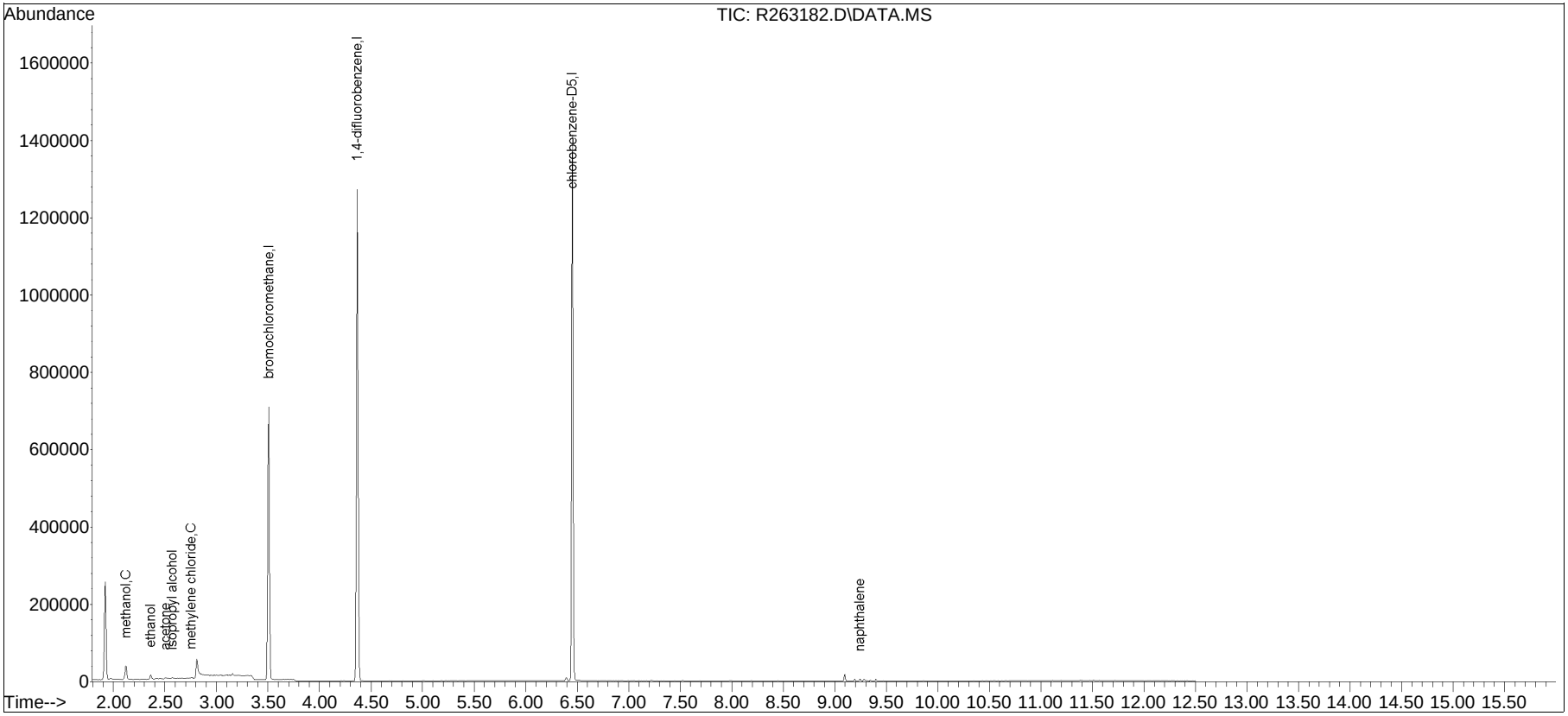
CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Default-LCS-AP2 - All compounds listed

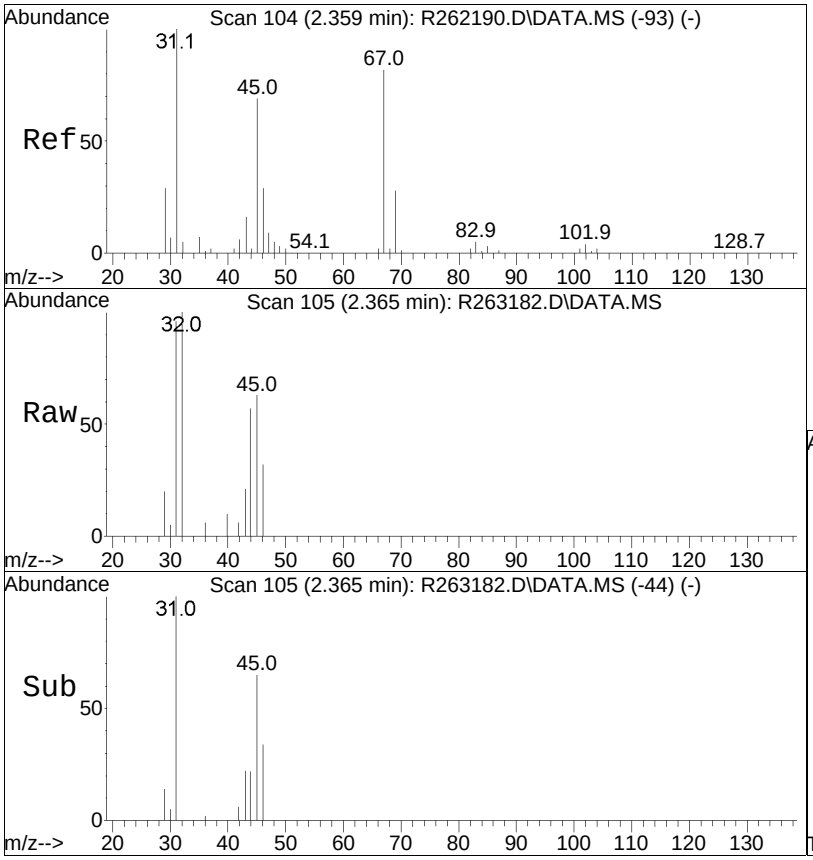
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listedR263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263182.D
Acq On : 22 Apr 2025 03:32 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-4,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 06:57:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

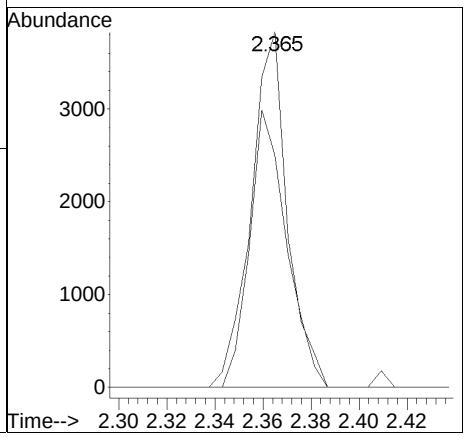


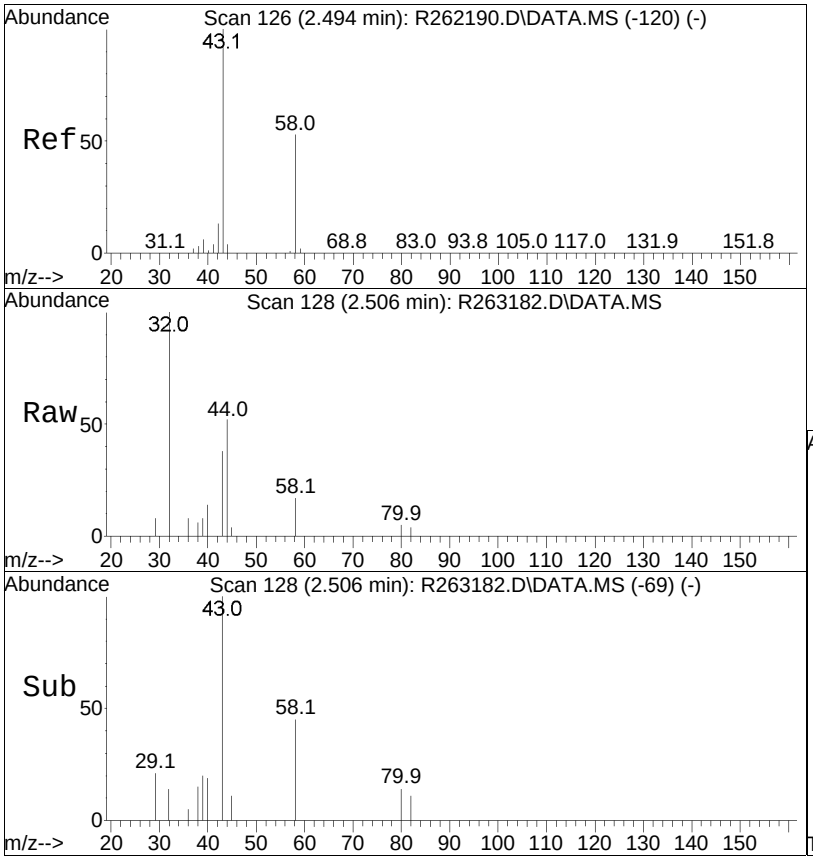


#15
ethanol
Concen: 0.90 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.005 min
Lab File: R263182.D
Acq: 22 Apr 2025 03:32 pm

Tgt Ion: 31 Resp: 4798

Ion	Ratio	Lower	Upper
31	100		
45	65.2	64.3	96.5

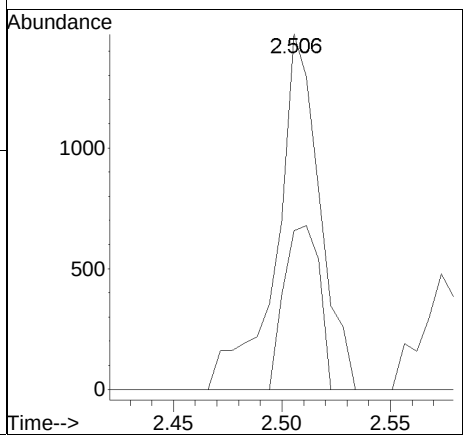


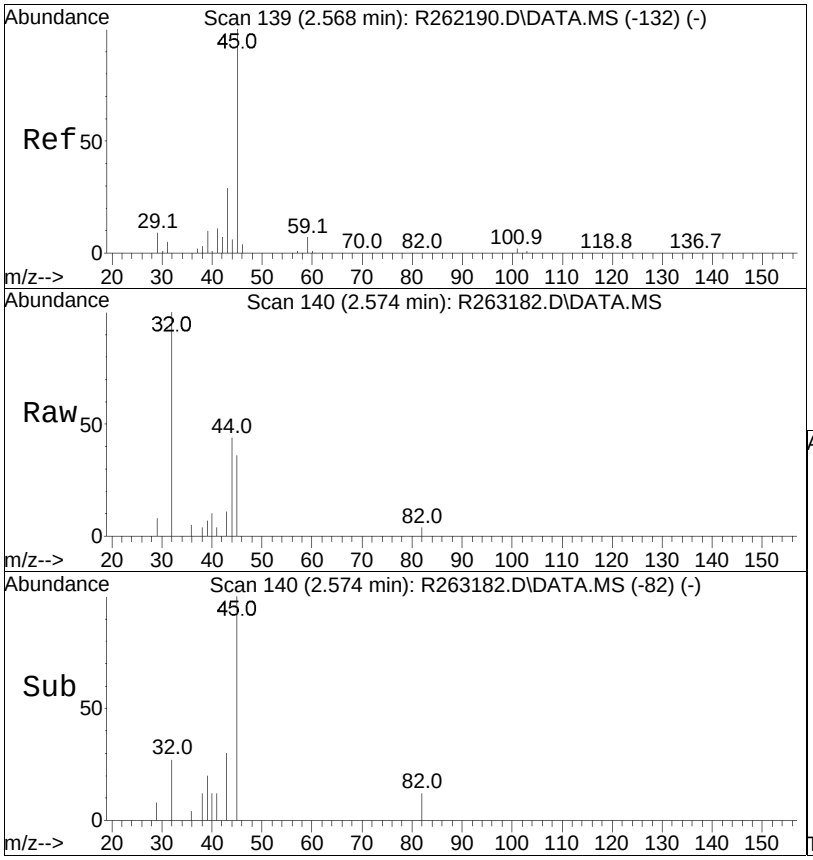


#19
acetone
Concen: 0.15 ppbV
RT: 2.506 min Scan# 128
Delta R.T. 0.006 min
Lab File: R263182.D
Acq: 22 Apr 2025 03:32 pm

Tgt Ion: 43 Resp: 2033

Ion	Ratio	Lower	Upper
43	100		
58	44.7	32.9	49.3
57	0.0	1.0	1.4#

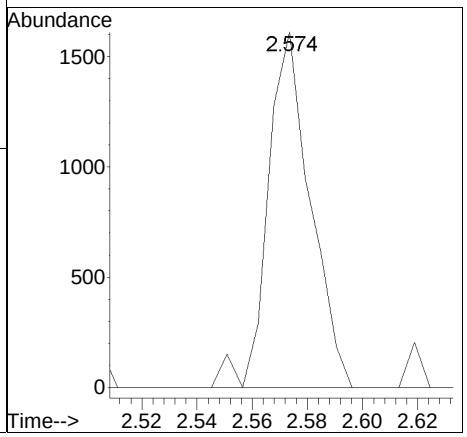


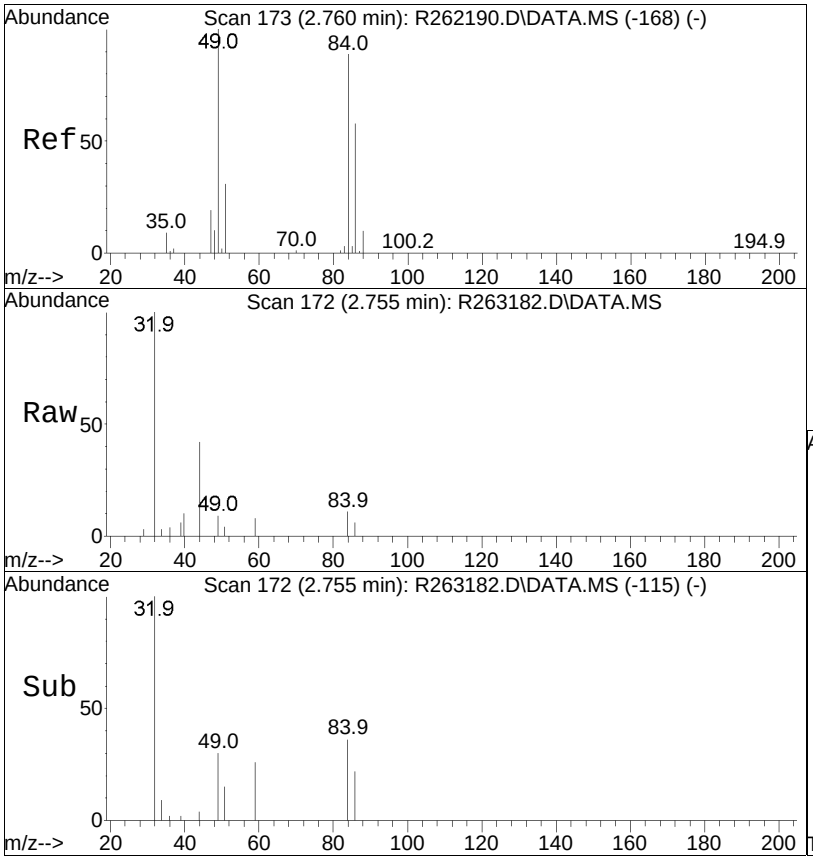


#22
isopropyl alcohol
Concen: 0.11 ppbV
RT: 2.574 min Scan# 140
Delta R.T. 0.006 min
Lab File: R263182.D
Acq: 22 Apr 2025 03:32 pm

Tgt Ion: 45 Resp: 1727

Ion	Ratio	Lower	Upper
45	100		
59	0.0	4.4	6.6#

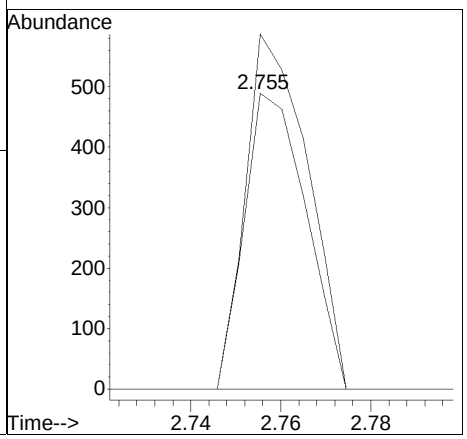


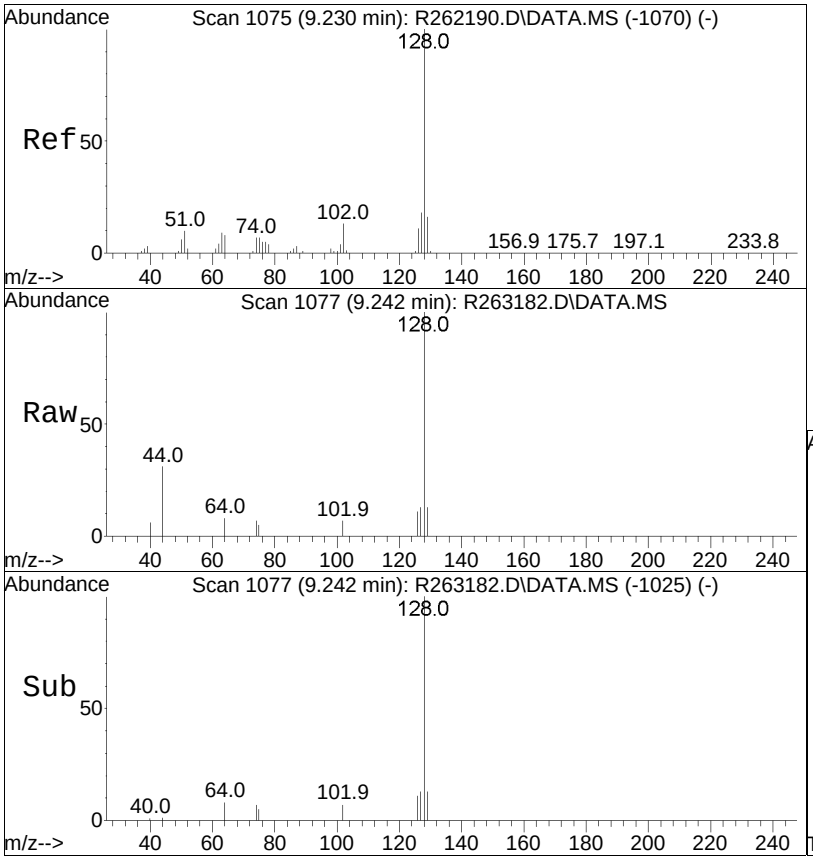


#28
methylene chloride
Concen: 0.04 ppbV
RT: 2.755 min Scan# 172
Delta R.T. -0.005 min
Lab File: R263182.D
Acq: 22 Apr 2025 03:32 pm

Tgt Ion: 49 Resp: 467

Ion	Ratio	Lower	Upper
49	100		
84	120.0	85.3	127.9

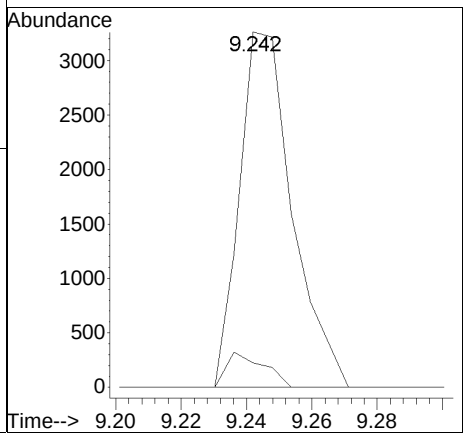




#116
naphthalene
Concen: 0.03 ppbV
RT: 9.242 min Scan# 1077
Delta R.T. 0.012 min
Lab File: R263182.D
Acq: 22 Apr 2025 03:32 pm

Tgt Ion:128 Resp: 3670

Ion	Ratio	Lower	Upper
128	100		
102	6.9	6.2	9.4



Manual Integration Report

Data Path	: X:\Airlab\Data\Airlab26\20	QMethod	: TFS26_250402.M
Data File	: R263182.D	Operator	: AIRLAB26:KJD
Date Inj'd	: 4/22/2025 3:32 pm	Instrument	: Airlab26
Sample	: WG2057225-4,3,250,250	Quant Date	: 4/23/2025 6:57 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	82	0.00
2		chlorodifluoromethane	10.000	24.160	-141.6#	169	0.00
3		propylene	10.000	8.912	10.9	76	0.00
4		propane	10.000	8.659	13.4	80	0.00
5		dichlorodifluoromethane	10.000	10.804	-8.0	92	0.00
6	C	chloromethane	10.000	10.340	-3.4	90	0.00
7		Freon-114	10.000	12.030	-20.3	102	0.00
8	C	methanol	50.000	60.500	-21.0	100	0.00
9	C	vinyl chloride	10.000	11.852	-18.5	103	0.00
10	C	1,3-butadiene	10.000	10.191	-1.9	93	0.00
11		butane	10.000	9.446	5.5	83	0.00
13	C	bromomethane	10.000	12.146	-21.5	103	0.00
14	C	chloroethane	10.000	10.928	-9.3	98	0.00
15		ethanol	50.000	45.027	9.9	78	0.00
16		dichlorofluoromethane	10.000	9.568	4.3	85	0.00
17	C	vinyl bromide	10.000	12.356	-23.6	112	0.00
18	C	acrolein	10.000	9.025	9.7	75	0.00
19		acetone	50.000	56.290	-12.6	98	0.00
20	C	acetonitrile	10.000	9.472	5.3	88	0.00
21		trichlorofluoromethane	10.000	11.678	-16.8	99	0.00
22		isopropyl alcohol	25.000	22.444	10.2	86	0.00
23	C	acrylonitrile	10.000	10.336	-3.4	87	0.00
24		pentane	10.000	10.839	-8.4	85	0.00
25		ethyl ether	10.000	8.751	12.5	76	0.00
26	C	1,1-dichloroethene	10.000	12.945	-29.5	104	0.00
27		tertiary butyl alcohol	10.000	9.436	5.6	87	0.00
28	C	methylene chloride	10.000	11.680	-16.8	101	0.00
29	C	3-chloropropene	10.000	10.402	-4.0	91	0.00
30	C	carbon disulfide	10.000	11.568	-15.7	97	0.00
31		Freon 113	10.000	11.998	-20.0	101	0.00
32		trans-1,2-dichloroethene	10.000	11.139	-11.4	94	0.00
33	C	1,1-dichloroethane	10.000	11.430	-14.3	98	0.00
34	C	MTBE	10.000	10.625	-6.3	90	0.00
35	C	vinyl acetate	10.000	7.031	29.7	60	0.00
36	C	2-butanone	10.000	9.371	6.3	83	0.00
37		cis-1,2-dichloroethene	10.000	10.356	-3.6	88	0.00
38		Ethyl Acetate	10.000	8.936	10.6	69	0.00
39	C	chloroform	10.000	10.793	-7.9	91	0.00
40		Tetrahydrofuran	10.000	10.467	-4.7	92	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	8.843	11.6	75	0.00
42	C	1,2-dichloroethane	10.000	10.245	-2.4	88	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	78	0.00
44	C	hexane	10.000	10.450	-4.5	88	0.00
45		diisopropyl ether	10.000	10.127	-1.3	80	0.00
46		tert-butyl ethyl ether	10.000	7.934	20.7	69	0.00
48	C	1,1,1-trichloroethane	10.000	10.803	-8.0	87	0.00
49		1,1-dichloropropene	10.000	10.761	-7.6	81	0.00
50	C	benzene	10.000	10.831	-8.3	87	0.00
52	C	carbon tetrachloride	10.000	10.887	-8.9	87	0.00
53		cyclohexane	10.000	10.111	-1.1	82	0.00
54		tert-amyl methyl ether	10.000	9.488	5.1	76	0.00
55		dibromomethane	10.000	10.235	-2.3	82	0.00
56	C	1,2-dichloropropane	10.000	11.236	-12.4	91	0.00
57		bromodichloromethane	10.000	11.316	-13.2	89	0.00
58	C	1,4-dioxane	10.000	10.789	-7.9	89	0.00
59	C	trichloroethene	10.000	10.799	-8.0	87	0.00
60	C	2,2,4-trimethylpentane	10.000	10.825	-8.2	88	0.00
61		methyl methacrylate	10.000	9.096	9.0	73	0.00
62		heptane	10.000	10.098	-1.0	84	0.00
63	C	cis-1,3-dichloropropene	10.000	11.645	-16.4	91	0.00
64	C	4-methyl-2-pentanone	10.000	10.558	-5.6	82	0.00
65		trans-1,3-dichloropropene	10.000	12.388	-23.9	97	0.00
66	C	1,1,2-trichloroethane	10.000	11.618	-16.2	90	0.00
67	I	chlorobenzene-D5	10.000	10.000	0.0	77	0.00
68	C	toluene	10.000	10.981	-9.8	87	0.00
71		1,3-dichloropropane	10.000	9.899	1.0	79	0.00
72		2-hexanone	10.000	10.405	-4.0	80	0.00
74		dibromochloromethane	10.000	11.685	-16.9	89	0.00
75	C	1,2-dibromoethane	10.000	11.938	-19.4	93	0.00
76		butyl acetate	10.000	9.777	2.2	75	0.00
77		octane	10.000	9.404	6.0	75	0.00
78	C	tetrachloroethene	10.000	10.887	-8.9	89	0.00
79		1,1,1,2-tetrachloroethane	10.000	9.651	3.5	75	0.00
80	C	chlorobenzene	10.000	11.000	-10.0	86	0.00
81	C	ethylbenzene	10.000	10.781	-7.8	85	0.00
83	C	m+p-xylene	20.000	22.341	-11.7	87	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 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	11.873	-18.7	89	0.00
85	C	styrene	10.000	11.150	-11.5	86	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	12.001	-20.0	94	0.00
87	C	o-xylene	10.000	11.080	-10.8	88	0.00
88		1,2,3-trichloropropane	10.000	10.152	-1.5	80	0.00
89		nonane	10.000	9.625	3.8	75	0.00
91	C	isopropylbenzene	10.000	10.170	-1.7	79	0.00
92		bromobenzene	10.000	11.878	-18.8	72	0.00
93		2-chlorotoluene	10.000	9.639	3.6	76	0.00
94		n-propylbenzene	10.000	9.829	1.7	77	0.00
95		4-chlorotoluene	10.000	9.681	3.2	75	0.00
96		4-ethyl toluene	10.000	11.212	-12.1	86	0.00
97		1,3,5-trimethylbenzene	10.000	11.150	-11.5	86	0.00
98		tert-butylbenzene	10.000	10.135	-1.3	79	0.00
99		1,2,4-trimethylbenzene	10.000	11.627	-16.3	90	0.00
100		decane	10.000	9.605	3.9	76	0.00
101	C	Benzyl Chloride	10.000	8.357	16.4	63	0.00
102		1,3-dichlorobenzene	10.000	11.954	-19.5	93	0.00
103	C	1,4-dichlorobenzene	10.000	11.501	-15.0	90	0.00
104		sec-butylbenzene	10.000	9.974	0.3	77	0.00
106		p-isopropyltoluene	10.000	10.641	-6.4	85	0.00
107		1,2-dichlorobenzene	10.000	11.549	-15.5	89	0.00
108		n-butylbenzene	10.000	10.312	-3.1	79	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	9.261	7.4	70	0.00
112		undecane	10.000	9.053	9.5	71	0.00
114		dodecane	10.000	10.378	-3.8	71	0.00
115	C	1,2,4-trichlorobenzene	10.000	11.032	-10.3	83	0.00
116		naphthalene	10.000	8.932	10.7	64	0.00
117		1,2,3-trichlorobenzene	10.000	9.711	2.9	67	0.00
119	C	hexachlorobutadiene	10.000	10.436	-4.4	81	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\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.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	158106	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 100.00%			
43) 1,4-difluorobenzene	4.366	114	650619	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 100.00%			
67) chlorobenzene-D5	6.449	54	77867	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.024	85	369461	10.804	ppbV	100
6) chloromethane	2.074	50	104736	10.340	ppbV	97
7) Freon-114	2.107	85	428036	12.030	ppbV	99
9) vinyl chloride	2.145	62	150546	11.852	ppbV	96
10) 1,3-butadiene	2.189	54	93482	10.191	ppbV	93
13) bromomethane	2.272	94	159953	12.146	ppbV	99
14) chloroethane	2.327	64	80671	10.928	ppbV	98
15) ethanol	2.359	31	238945	45.027	ppbV	99
17) vinyl bromide	2.432	106	175088	12.356	ppbV	97
19) acetone	2.500	43	733313	56.290	ppbV	97
21) trichlorofluoromethane	2.551	101	365154	11.678	ppbV	98
22) isopropyl alcohol	2.562	45	348935	22.444	ppbV	99
26) 1,1-dichloroethene	2.727	61	242221	12.945	ppbV	95
27) tertiary butyl alcohol	2.732	59	219381	9.436	ppbV	98
28) methylene chloride	2.755	49	125724	11.680	ppbV	97
29) 3-chloropropene	2.794	41	117010	10.402	ppbV	95
30) carbon disulfide	2.846	76	384080	11.568	ppbV	98
31) Freon 113	2.841	101	323215	11.998	ppbV	97
32) trans-1,2-dichloroethene	3.058	61	173454	11.139	ppbV	98
33) 1,1-dichloroethane	3.129	63	242650	11.430	ppbV	99
34) MTBE	3.155	73	352000	10.625	ppbV	99
36) 2-butanone	3.279	43	200992	9.371	ppbV	98
37) cis-1,2-dichloroethene	3.441	61	185020	10.356	ppbV	97
38) Ethyl Acetate	3.553	61	42588M6	8.936	ppbV	
39) chloroform	3.561	83	311559	10.793	ppbV	99
40) Tetrahydrofuran	3.725	42	109033M6	10.467	ppbV	
42) 1,2-dichloroethane	3.868	62	174286	10.245	ppbV	99
44) hexane	3.546	57	200300	10.450	ppbV #	75

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.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	311482	10.803	ppbV	99
50) benzene	4.177	78	482430	10.831	ppbV	98
52) carbon tetrachloride	4.252	117	322662	10.887	ppbV	100
53) cyclohexane	4.309	56	192869	10.111	ppbV	98
56) 1,2-dichloropropane	4.563	63	167068	11.236	ppbV	99
57) bromodichloromethane	4.658	83	327950	11.316	ppbV	100
58) 1,4-dioxane	4.686	88	105526	10.789	ppbV	100
59) trichloroethene	4.686	130	249250	10.799	ppbV	98
60) 2,2,4-trimethylpentane	4.724	57	631684	10.825	ppbV	100
62) heptane	4.865	43	187913	10.098	ppbV	99
63) cis-1,3-dichloropropene	5.110	75	274959	11.645	ppbV	99
64) 4-methyl-2-pentanone	5.142	43	245569	10.558	ppbV	99
65) trans-1,3-dichloropropene	5.374	75	233280	12.388	ppbV	99
66) 1,1,2-trichloroethane	5.445	97	223848	11.618	ppbV	98
68) toluene	5.589	91	619664	10.981	ppbV	99
72) 2-hexanone	5.749	43	230957	10.405	ppbV	98
74) dibromochloromethane	5.781	129	374304	11.685	ppbV	98
75) 1,2-dibromoethane	5.892	107	356474	11.938	ppbV	96
78) tetrachloroethene	6.140	166	323506	10.887	ppbV	98
80) chlorobenzene	6.471	112	513228	11.000	ppbV	98
81) ethylbenzene	6.673	91	779420	10.781	ppbV	99
83) m+p-xylene	6.766	91	1262213	22.341	ppbV	100
84) bromoform	6.766	173	373810	11.873	ppbV	99
85) styrene	6.940	104	503365	11.150	ppbV	99
86) 1,1,2,2-tetrachloroethane	6.981	83	487356	12.001	ppbV	99
87) o-xylene	6.987	91	616307	11.080	ppbV	97
96) 4-ethyl toluene	7.635	105	874249	11.212	ppbV	100
97) 1,3,5-trimethylbenzene	7.683	105	744787	11.150	ppbV	98
99) 1,2,4-trimethylbenzene	7.899	105	791470	11.627	ppbV	98
101) Benzyl Chloride	7.954	91	453027	8.357	ppbV	99
102) 1,3-dichlorobenzene	7.954	146	596903	11.954	ppbV	96
103) 1,4-dichlorobenzene	7.994	146	579875	11.501	ppbV	99
107) 1,2-dichlorobenzene	8.178	146	565899	11.549	ppbV	96
115) 1,2,4-trichlorobenzene	9.184	180	523709	11.032	ppbV	98
116) naphthalene	9.236	128	948267	8.932	ppbV	98
119) hexachlorobutadiene	9.464	225	410897	10.436	ppbV	95

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

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

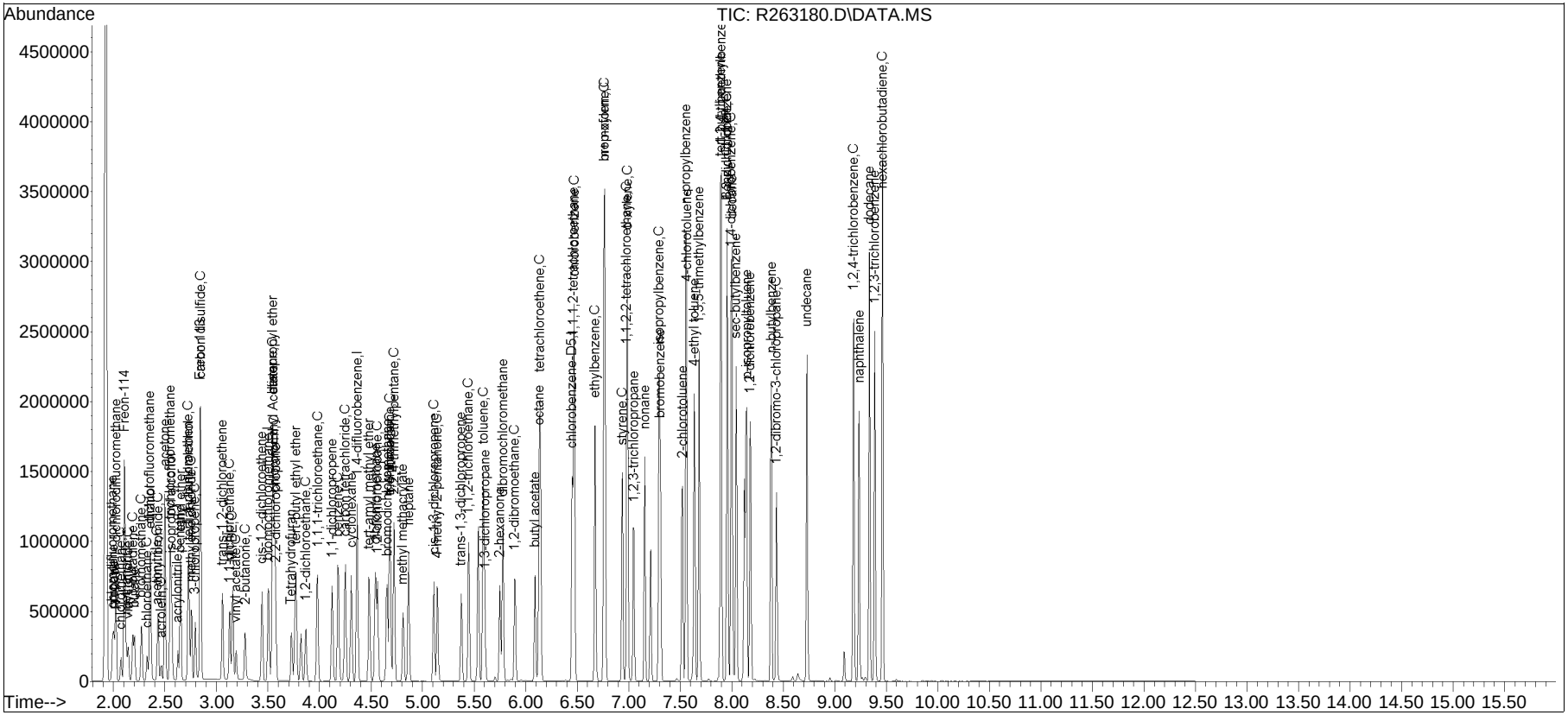
CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : Default-LCS-AP2 - All compounds listed

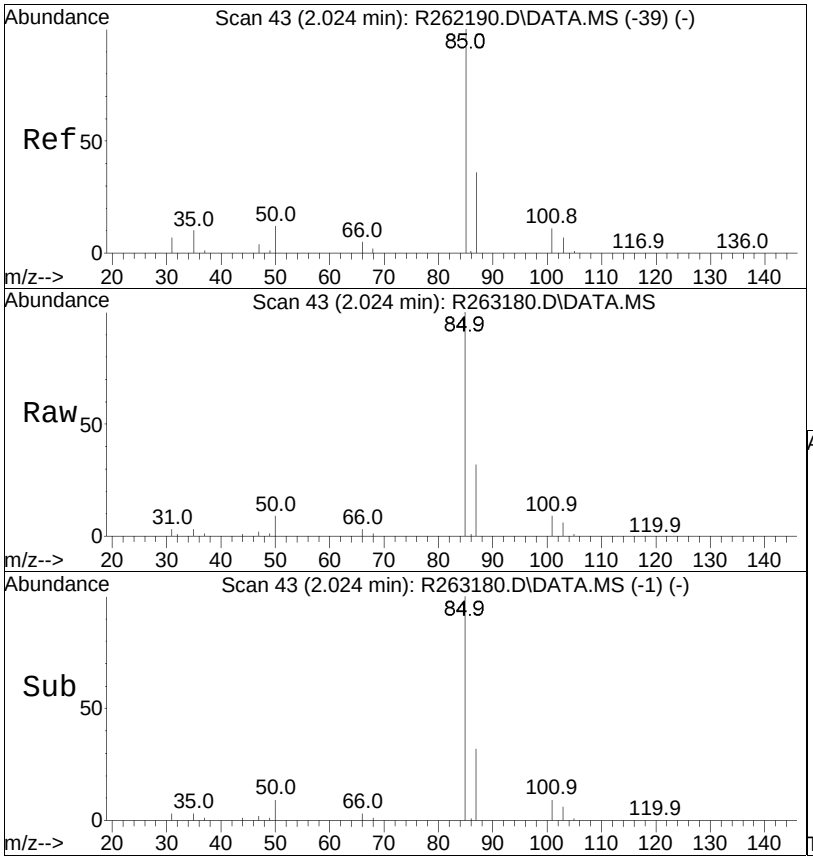
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listedR263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263180.D
Acq On : 22 Apr 2025 01:33 pm
Operator : AIRLAB26:KJD
Sample : WG2057225-3,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:32:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

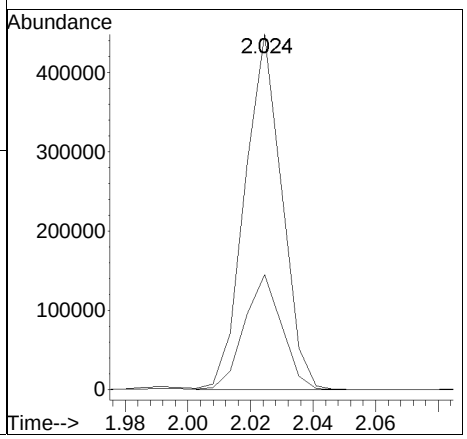


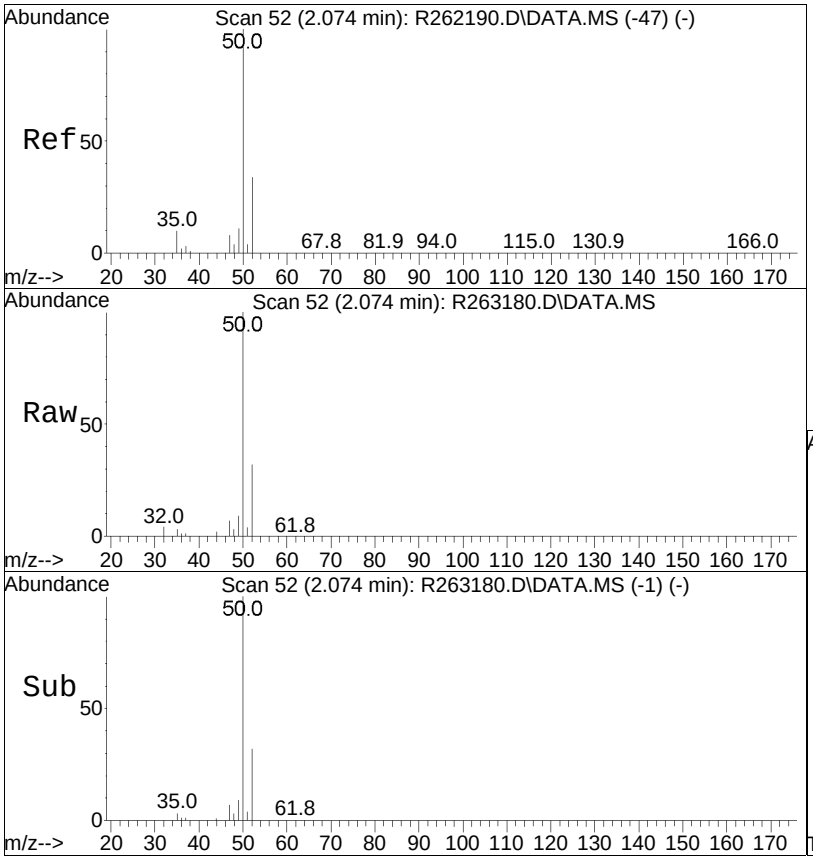


#5
dichlorodifluoromethane
Concen: 10.80 ppbV
RT: 2.024 min Scan# 43
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 85 Resp: 369461

Ion	Ratio	Lower	Upper
85	100		
87	32.3	26.0	39.0

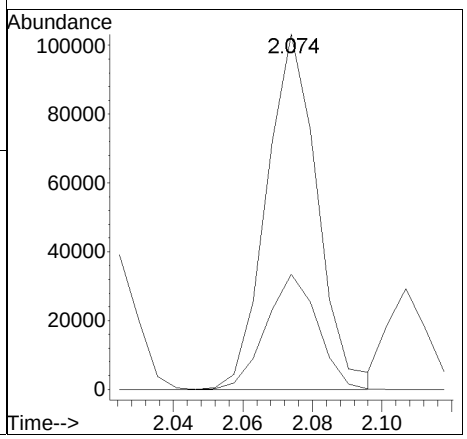


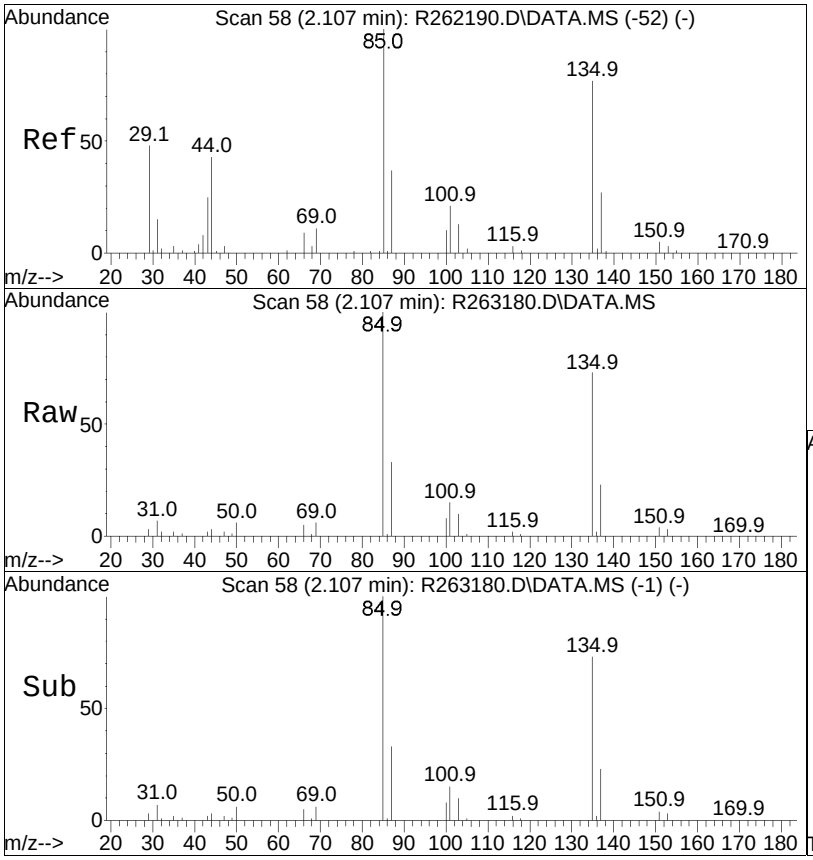


#6
chloromethane
Concen: 10.34 ppbV
RT: 2.074 min Scan# 52
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 50 Resp: 104736

Ion	Ratio	Lower	Upper
50	100		
52	32.4	27.1	40.7

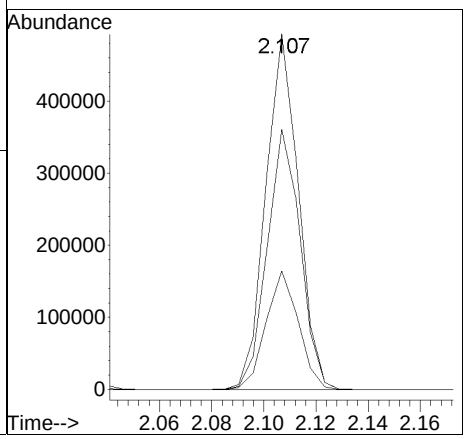


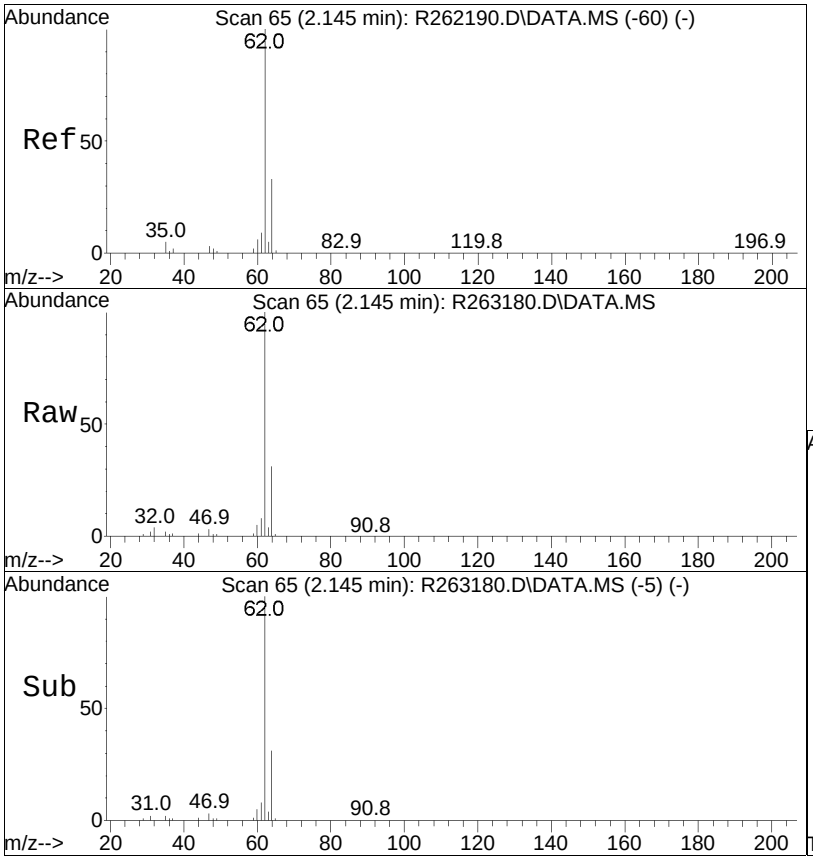


#7
Freon-114
Concen: 12.03 ppbV
RT: 2.107 min Scan# 58
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 85 Resp: 428036

Ion	Ratio	Lower	Upper
85	100		
87	33.3	26.2	39.4
135	73.2	58.0	87.0

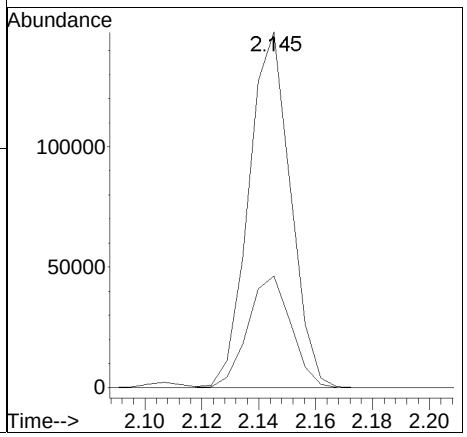


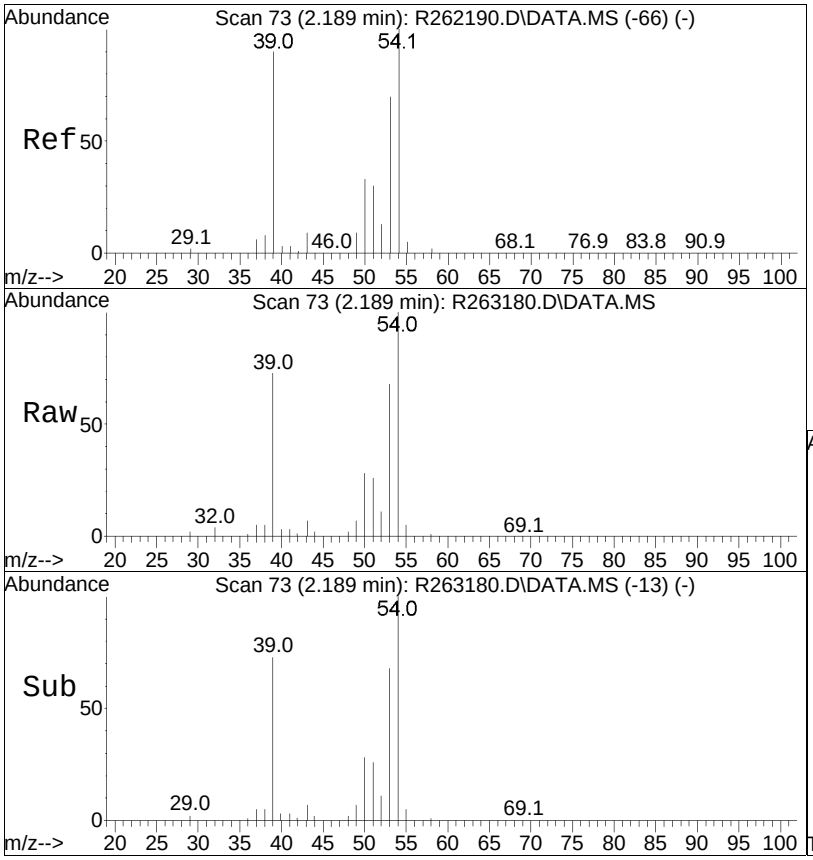


#9
vinyl chloride
Concen: 11.85 ppbV
RT: 2.145 min Scan# 65
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 62 Resp: 150546

Ion	Ratio	Lower	Upper
62	100		
64	31.3	26.9	40.3

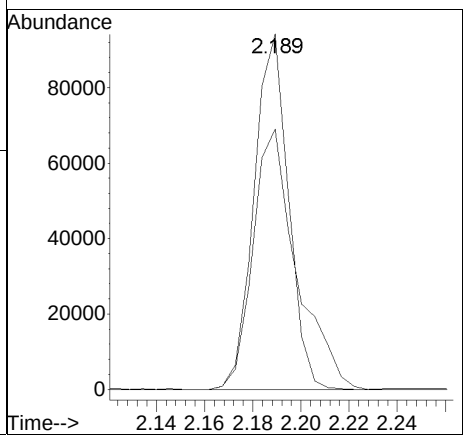


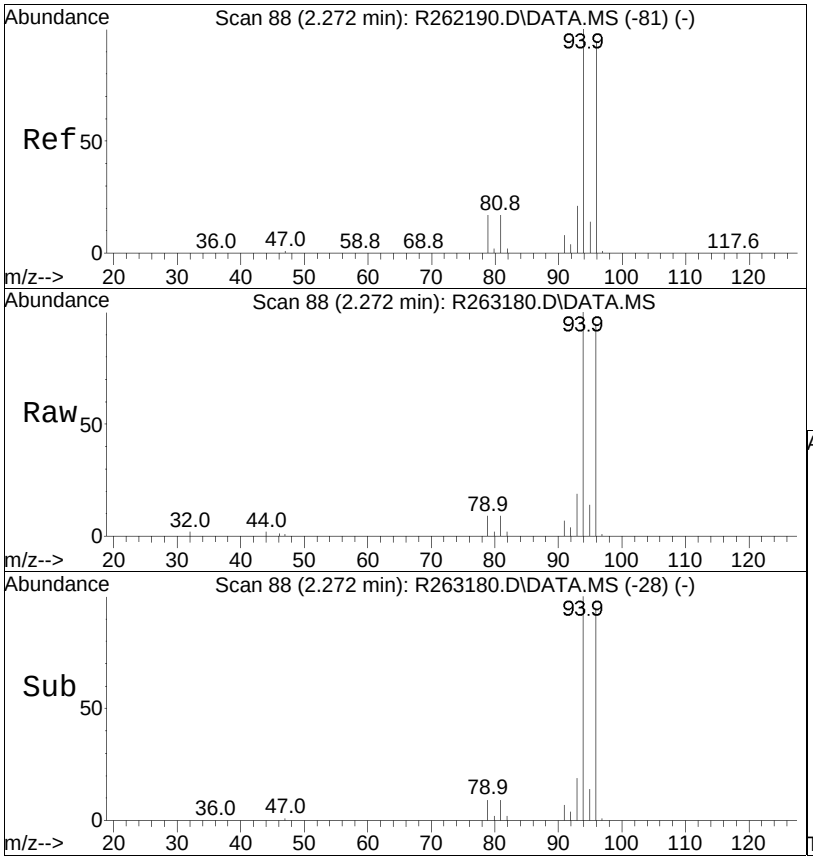


#10
1,3-butadiene
Concen: 10.19 ppbV
RT: 2.189 min Scan# 73
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 54 Resp: 93482

Ion	Ratio	Lower	Upper
54	100		
39	73.3	63.3	94.9

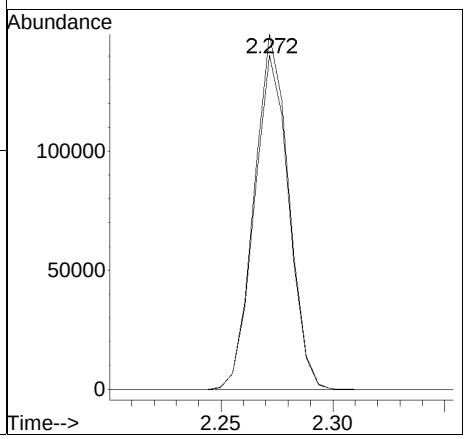


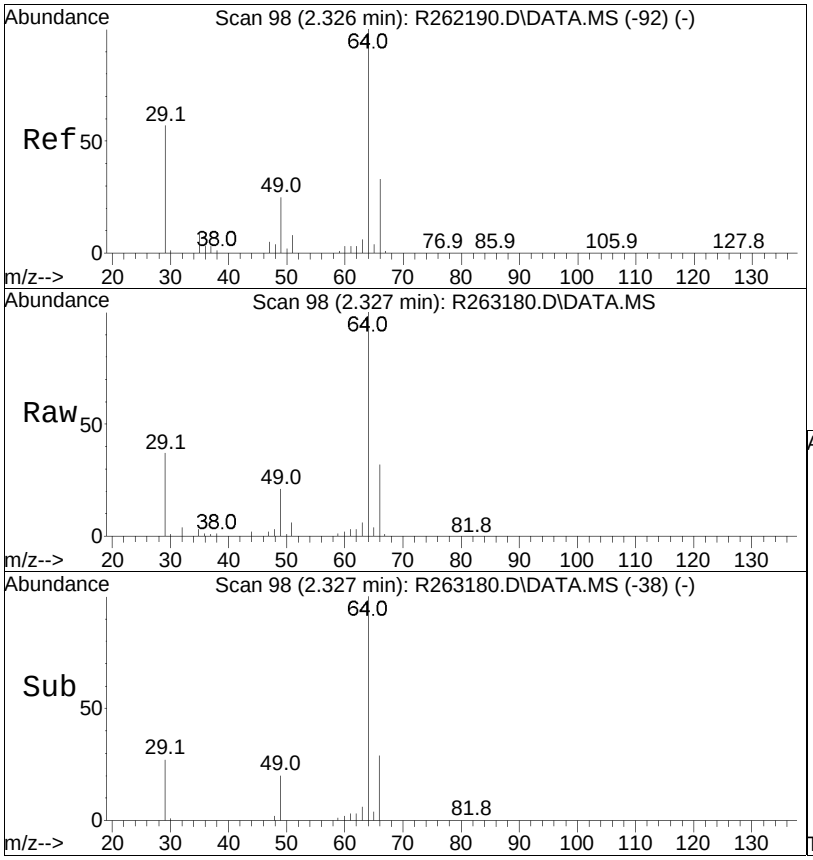


#13
bromomethane
Concen: 12.15 ppbV
RT: 2.272 min Scan# 88
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 94 Resp: 159953

Ion	Ratio	Lower	Upper
94	100		
96	94.0	74.6	112.0

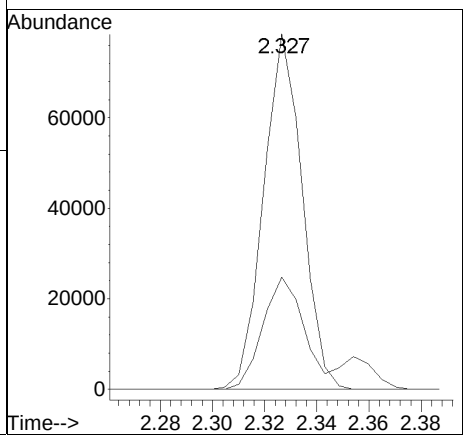


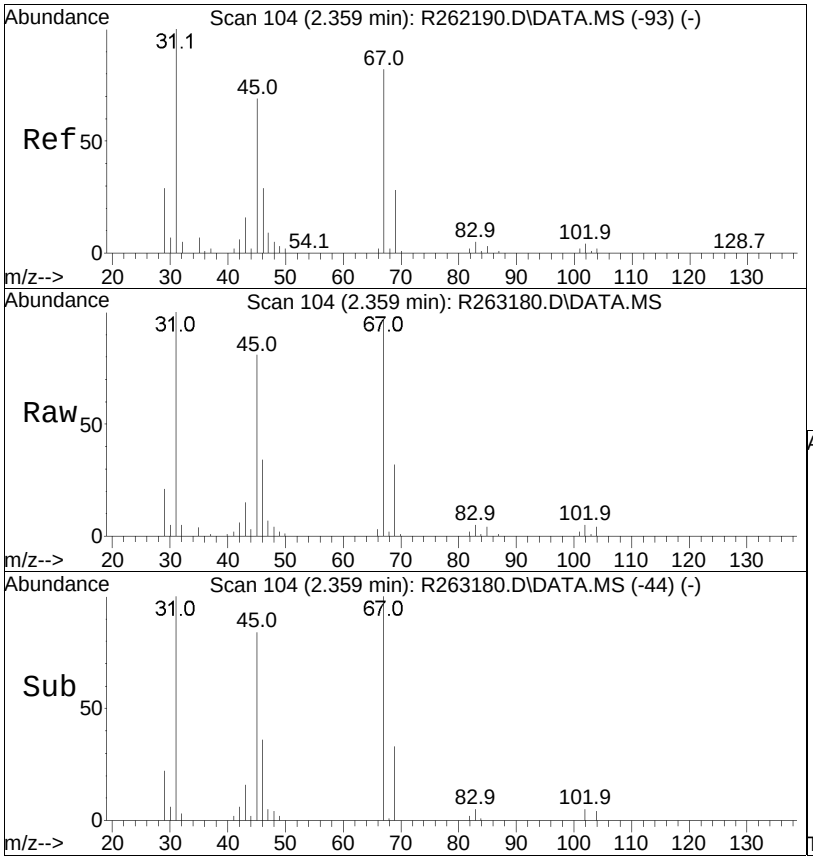


#14
chloroethane
Concen: 10.93 ppbV
RT: 2.327 min Scan# 98
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 64 Resp: 80671

Ion	Ratio	Lower	Upper
64	100		
66	31.6	24.3	36.5

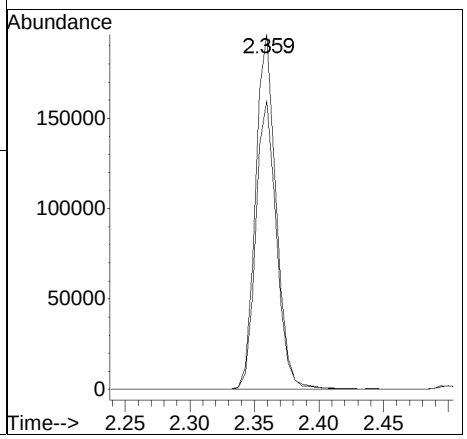


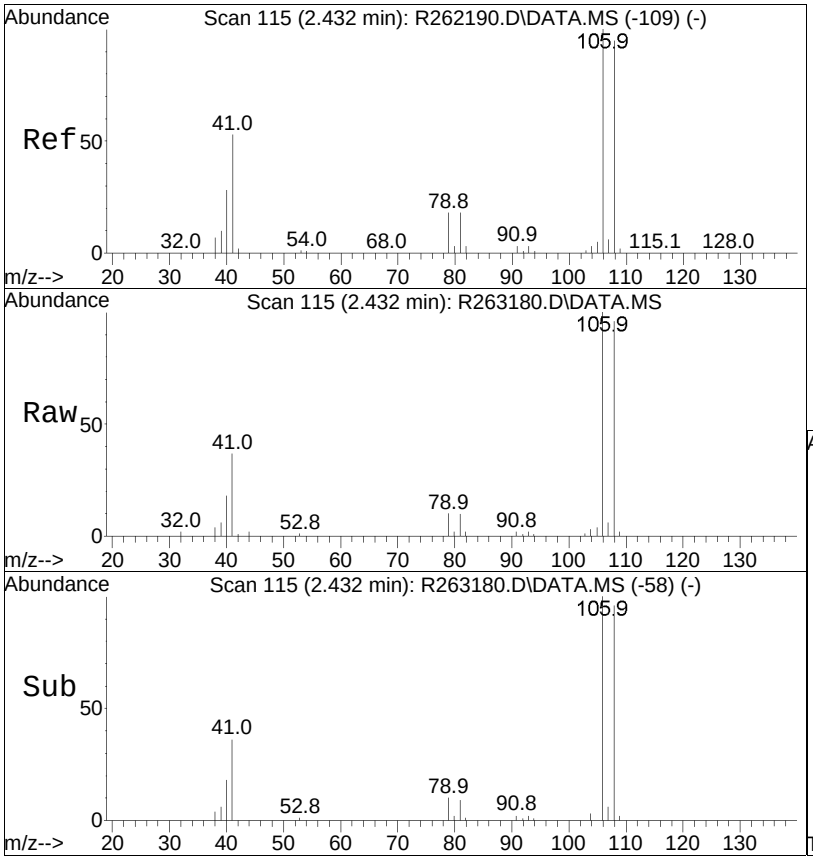


#15
ethanol
Concen: 45.03 ppbV
RT: 2.359 min Scan# 104
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 31 Resp: 238945

Ion	Ratio	Lower	Upper
31	100		
45	81.3	64.3	96.5

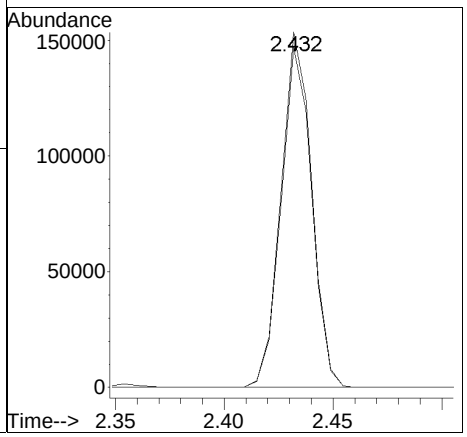


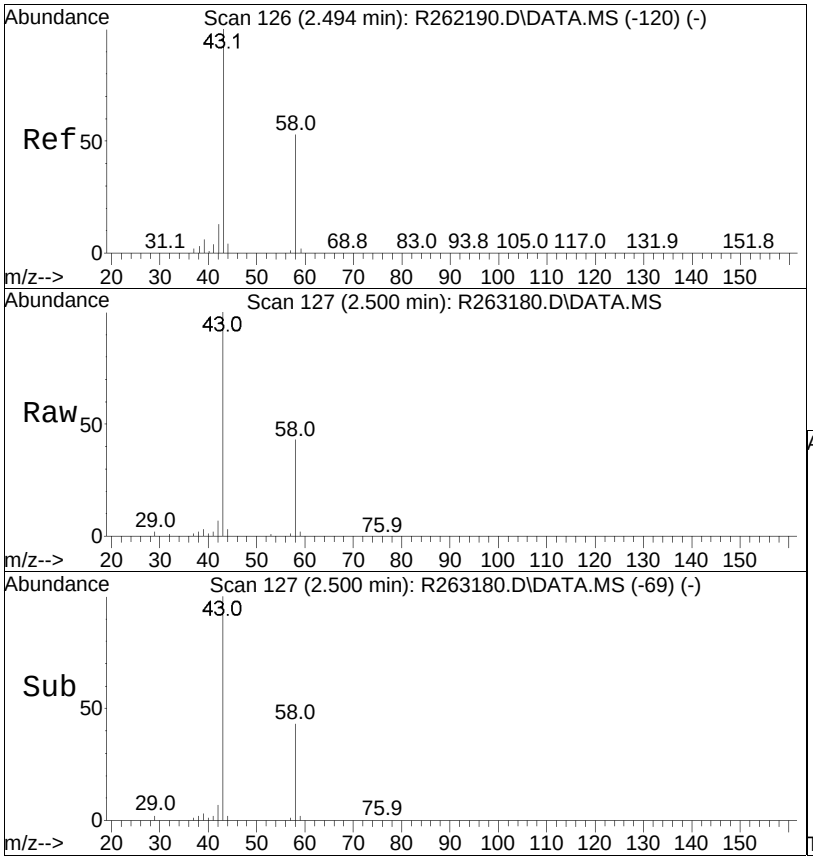


#17
vinyl bromide
Concen: 12.36 ppbV
RT: 2.432 min Scan# 115
Delta R.T. -0.006 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:106 Resp: 175088

Ion	Ratio	Lower	Upper
106	100		
108	95.8	79.4	119.0

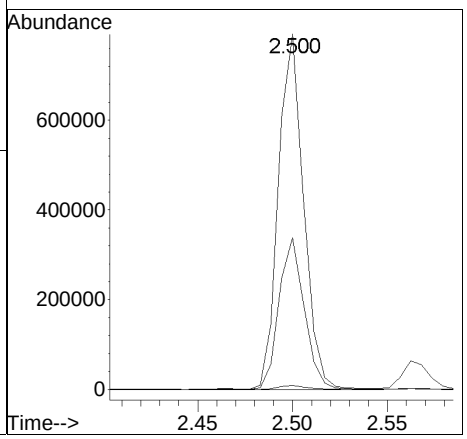


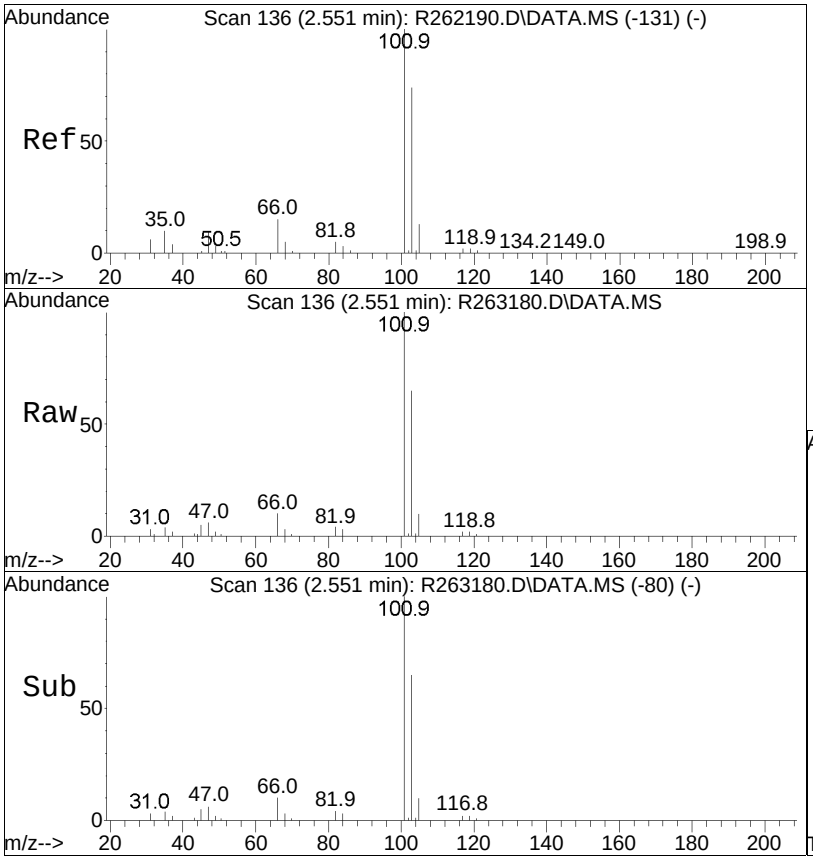


#19
acetone
Concen: 56.29 ppbV
RT: 2.500 min Scan# 127
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 43 Resp: 733313

Ion	Ratio	Lower	Upper
43	100		
58	42.7	32.9	49.3
57	1.1	1.0	1.4

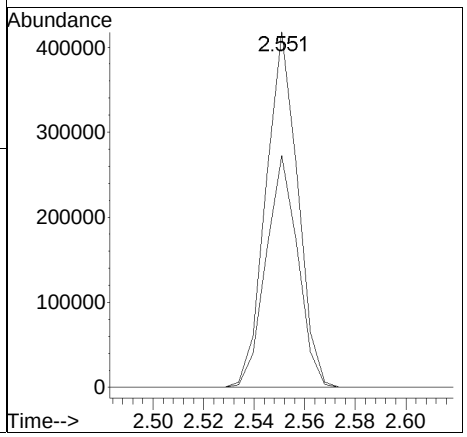


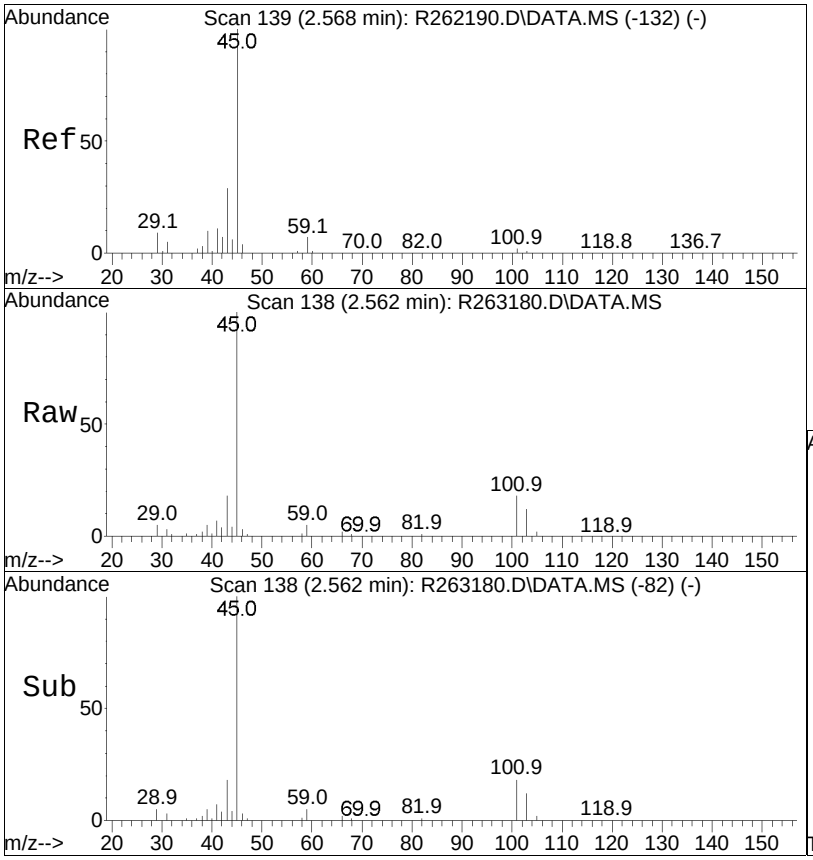


#21
trichlorofluoromethane
Concen: 11.68 ppbV
RT: 2.551 min Scan# 136
Delta R.T. -0.006 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:101 Resp: 365154

Ion	Ratio	Lower	Upper
101	100		
103	65.2	50.9	76.3

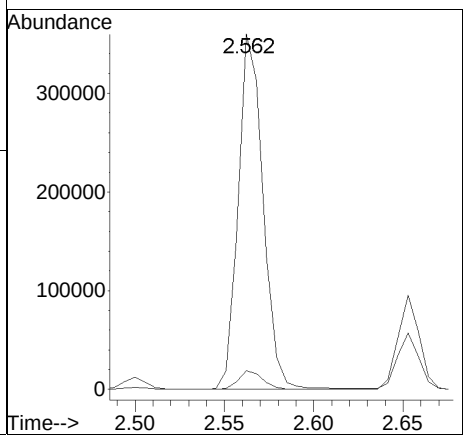


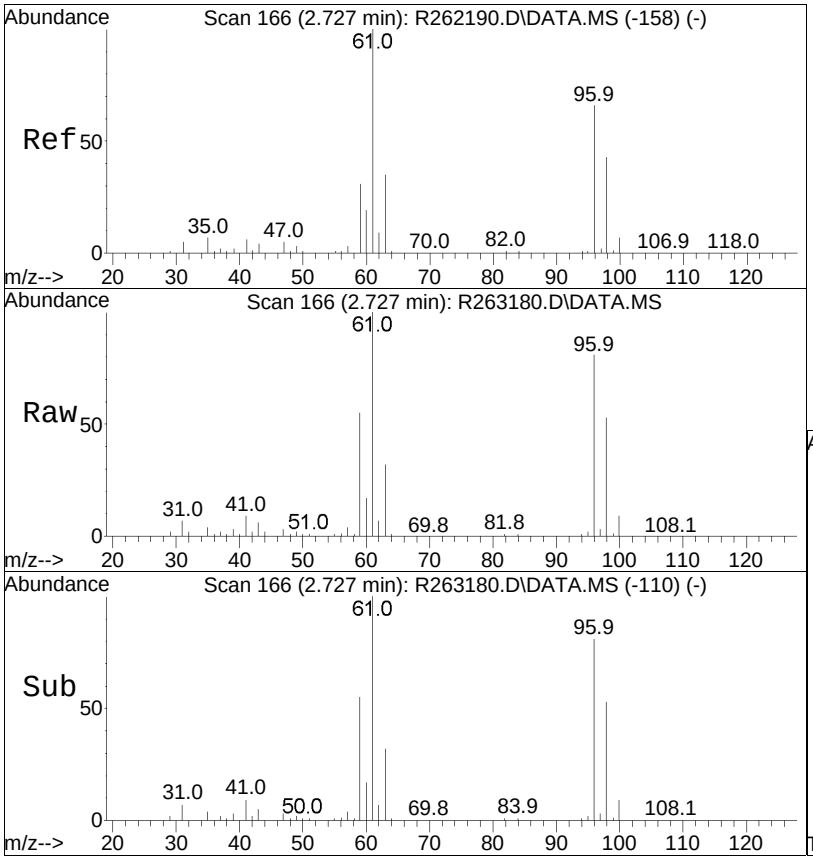


#22
isopropyl alcohol
Concen: 22.44 ppbV
RT: 2.562 min Scan# 138
Delta R.T. -0.006 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 45 Resp: 348935

Ion	Ratio	Lower	Upper
45	100		
59	5.2	4.4	6.6

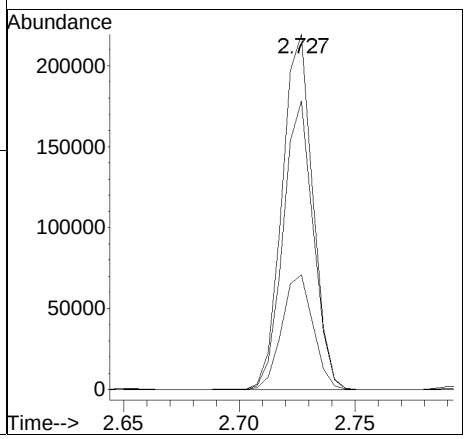


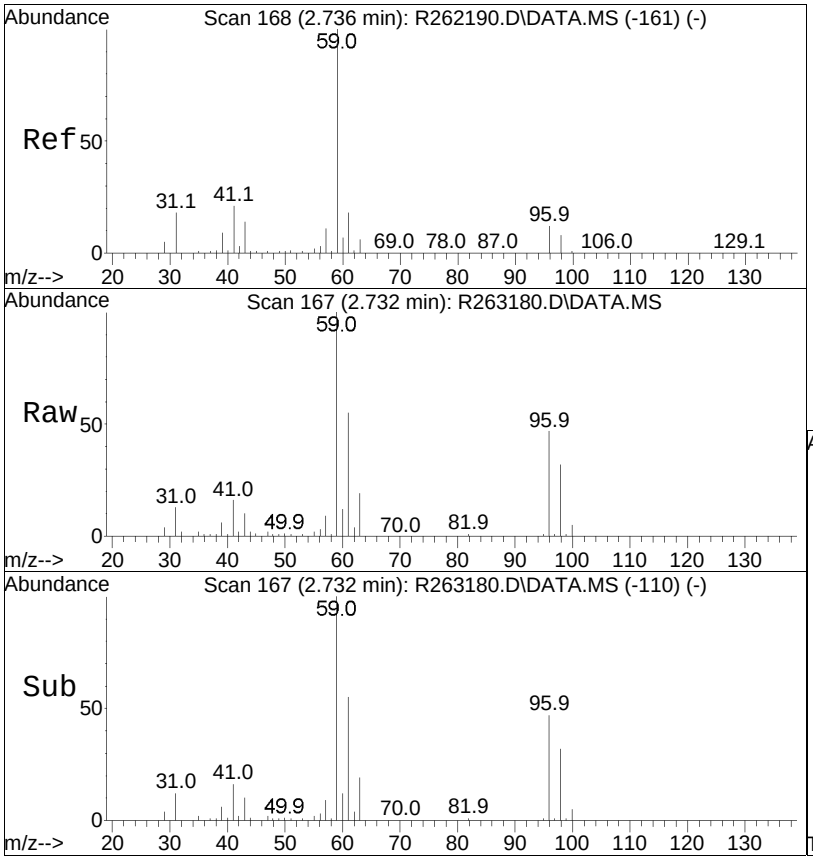


#26
1,1-dichloroethene
Concen: 12.95 ppbV
RT: 2.727 min Scan# 166
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 61 Resp: 242221

Ion	Ratio	Lower	Upper
61	100		
96	81.1	60.6	91.0
63	32.2	25.3	37.9

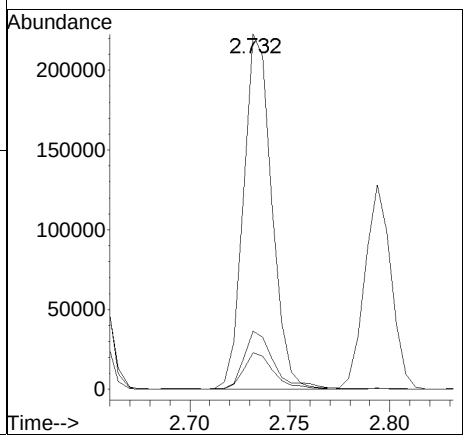


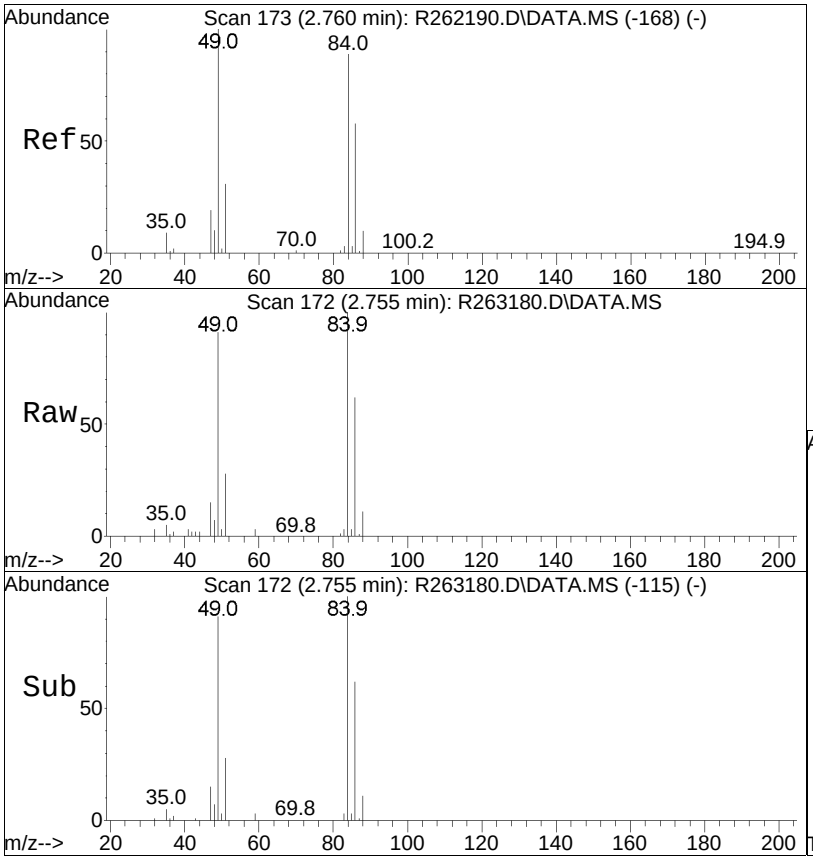


#27
tertiary butyl alcohol
Concen: 9.44 ppbV
RT: 2.732 min Scan# 167
Delta R.T. -0.005 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 59 Resp: 219381

Ion	Ratio	Lower	Upper
59	100		
41	16.4	12.3	18.5
43	10.4	8.6	12.8

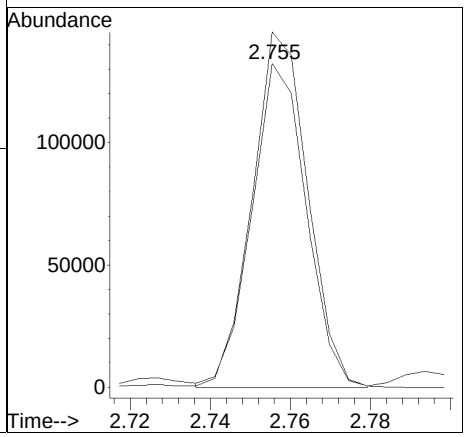


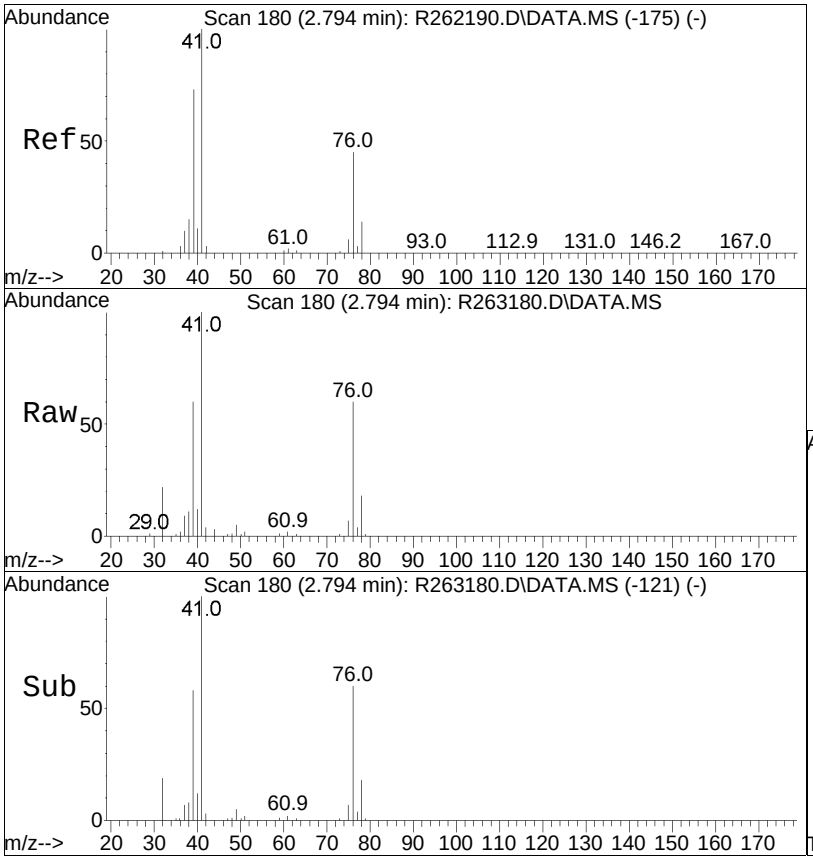


#28
methylene chloride
Concen: 11.68 ppbV
RT: 2.755 min Scan# 172
Delta R.T. -0.005 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 49 Resp: 125724

Ion	Ratio	Lower	Upper
49	100		
84	109.7	85.3	127.9

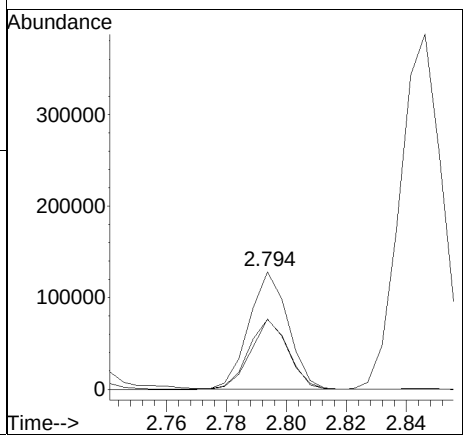


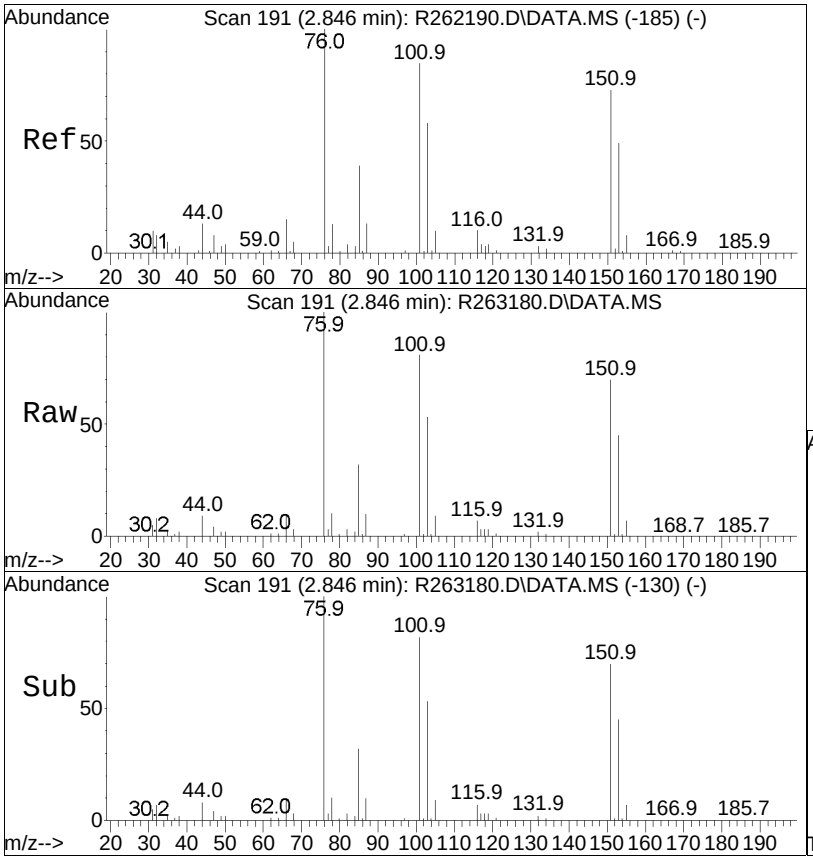


#29
3-chloropropene
Concen: 10.40 ppbV
RT: 2.794 min Scan# 180
Delta R.T. -0.005 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 41 Resp: 117010

Ion	Ratio	Lower	Upper
41	100		
39	59.6	48.9	73.3
76	59.9	43.4	65.2

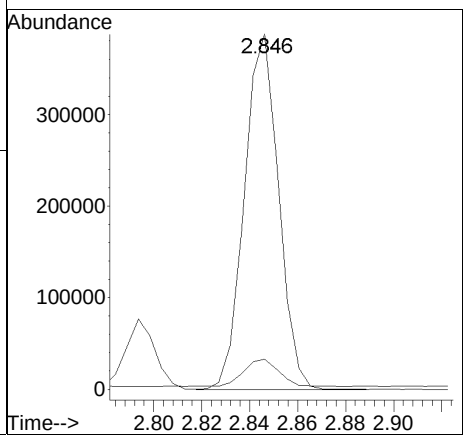


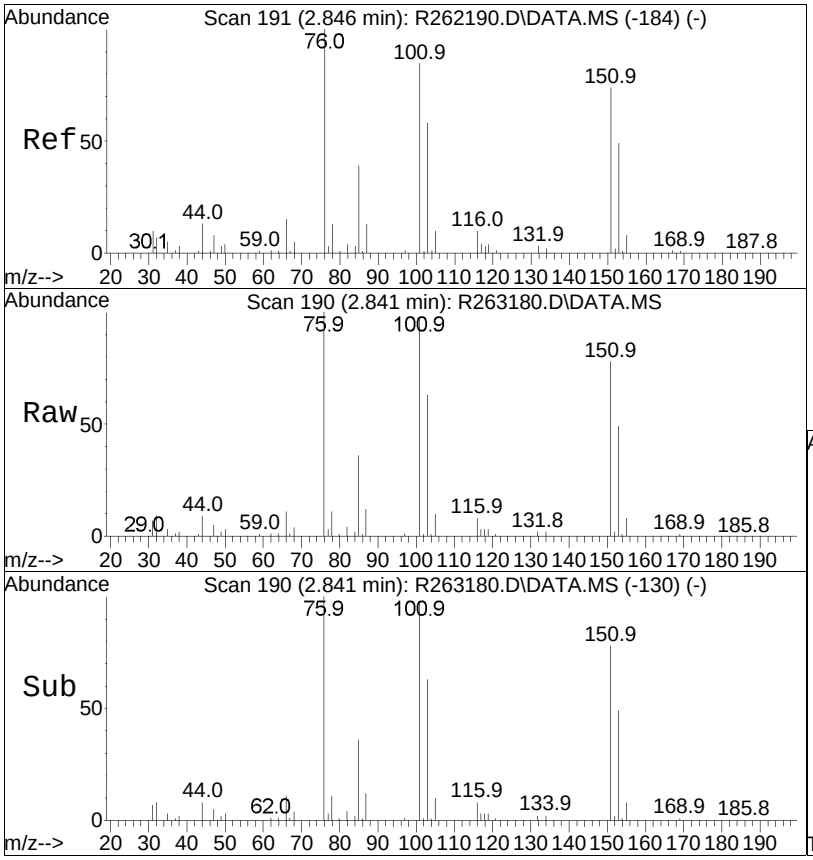


#30
carbon disulfide
Concen: 11.57 ppbV
RT: 2.846 min Scan# 191
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 76 Resp: 384080

Ion	Ratio	Lower	Upper
76	100		
44	8.5	7.5	11.3

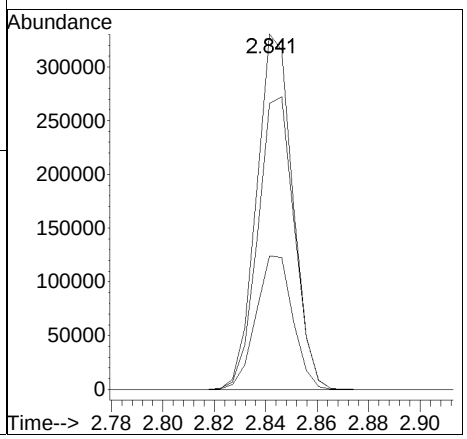


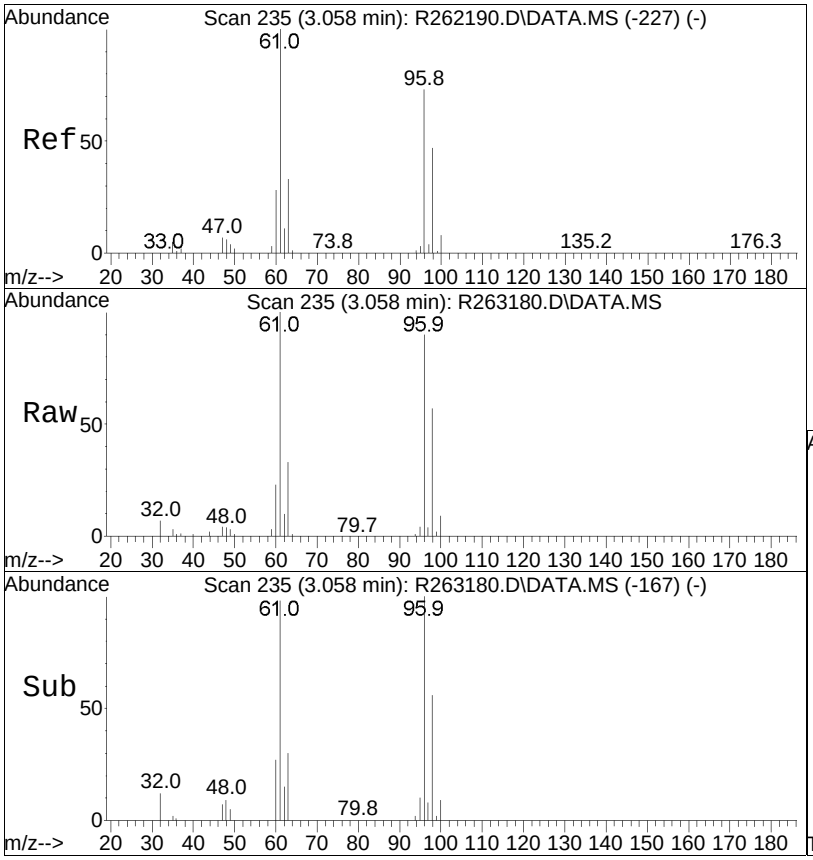


#31
Freon 113
Concen: 12.00 ppbV
RT: 2.841 min Scan# 190
Delta R.T. -0.005 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:101 Resp: 323215

Ion	Ratio	Lower	Upper
101	100		
85	37.6	29.9	44.9
151	80.5	67.5	101.3

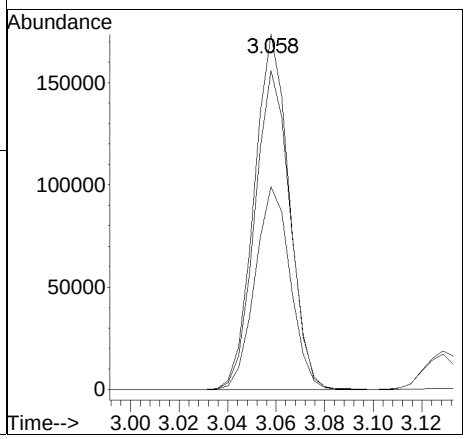


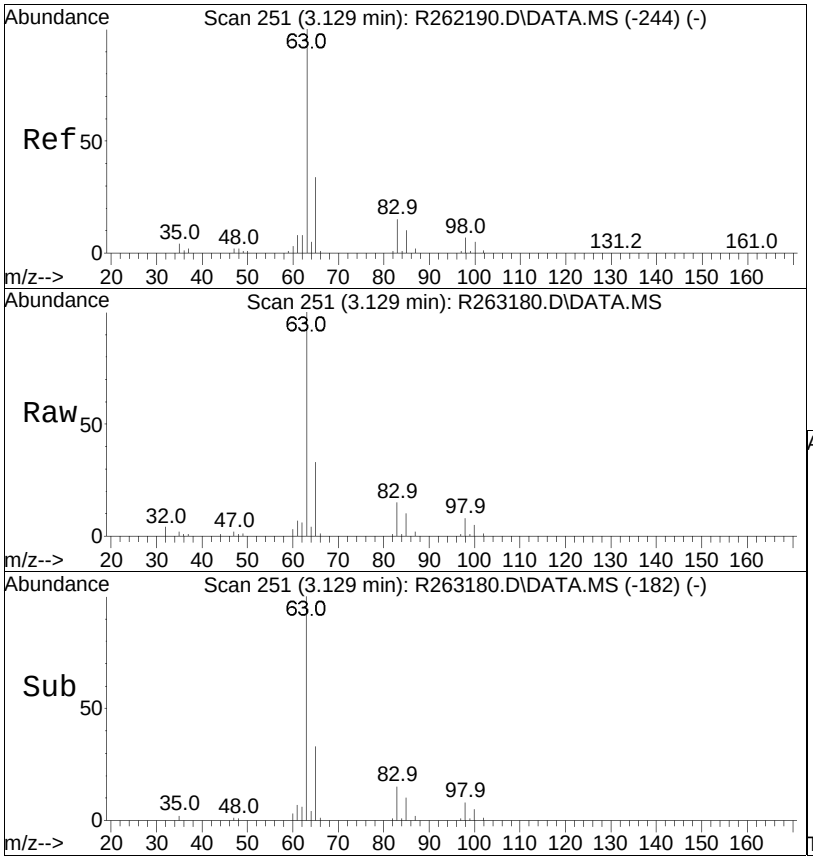


#32
trans-1,2-dichloroethene
Concen: 11.14 ppbV
RT: 3.058 min Scan# 235
Delta R.T. -0.004 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 61 Resp: 173454

Ion	Ratio	Lower	Upper
61	100		
96	89.8	70.3	105.5
98	57.0	44.5	66.7

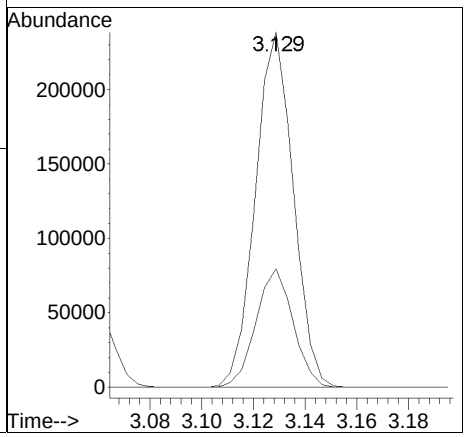


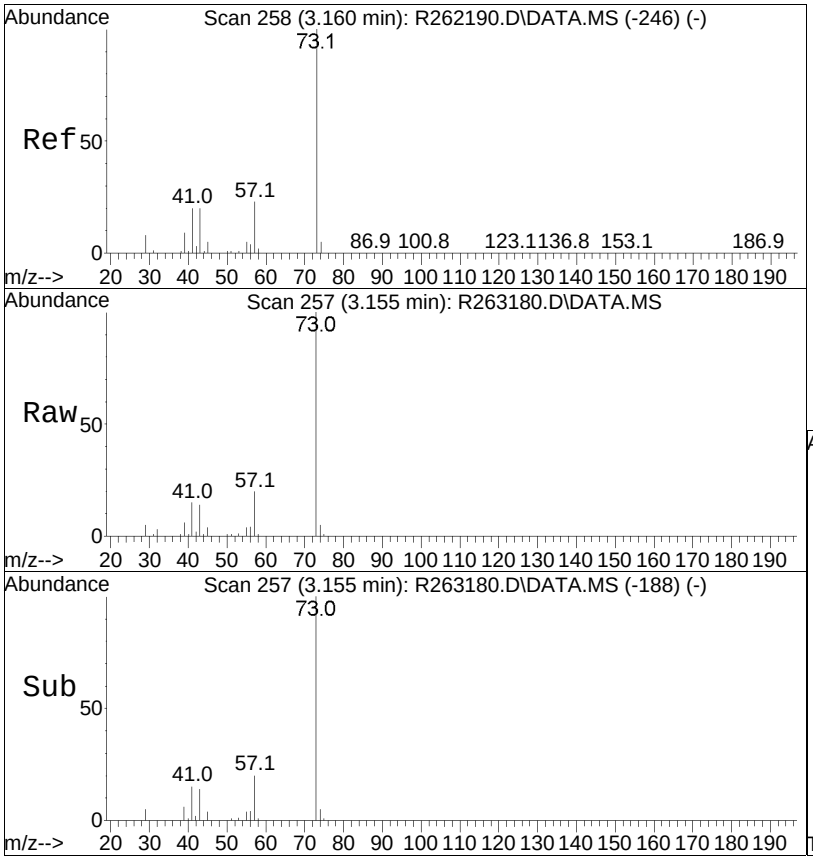


#33
1,1-dichloroethane
Concen: 11.43 ppbV
RT: 3.129 min Scan# 251
Delta R.T. -0.004 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 63 Resp: 242650

Ion	Ratio	Lower	Upper
63	100		
65	33.4	26.2	39.4

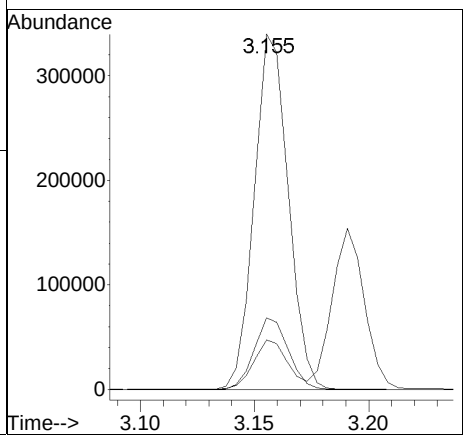


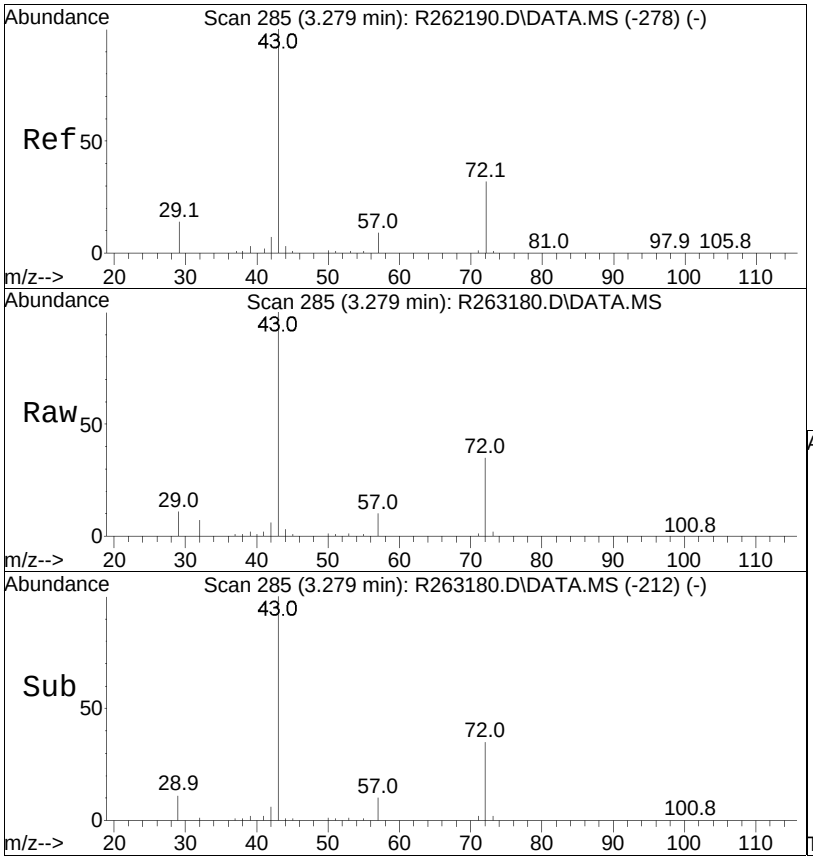


#34
MTBE
Concen: 10.62 ppbV
RT: 3.155 min Scan# 257
Delta R.T. -0.004 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 73 Resp: 352000

Ion	Ratio	Lower	Upper
73	100		
57	20.2	16.0	24.0
43	14.0	12.2	18.2

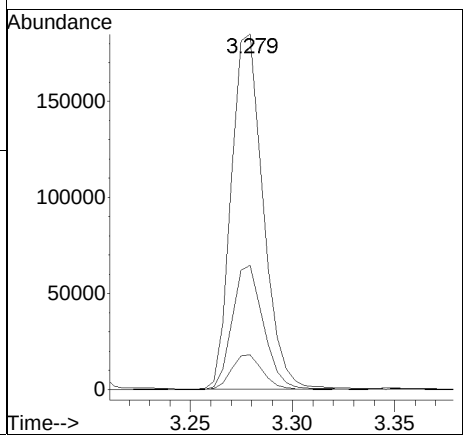


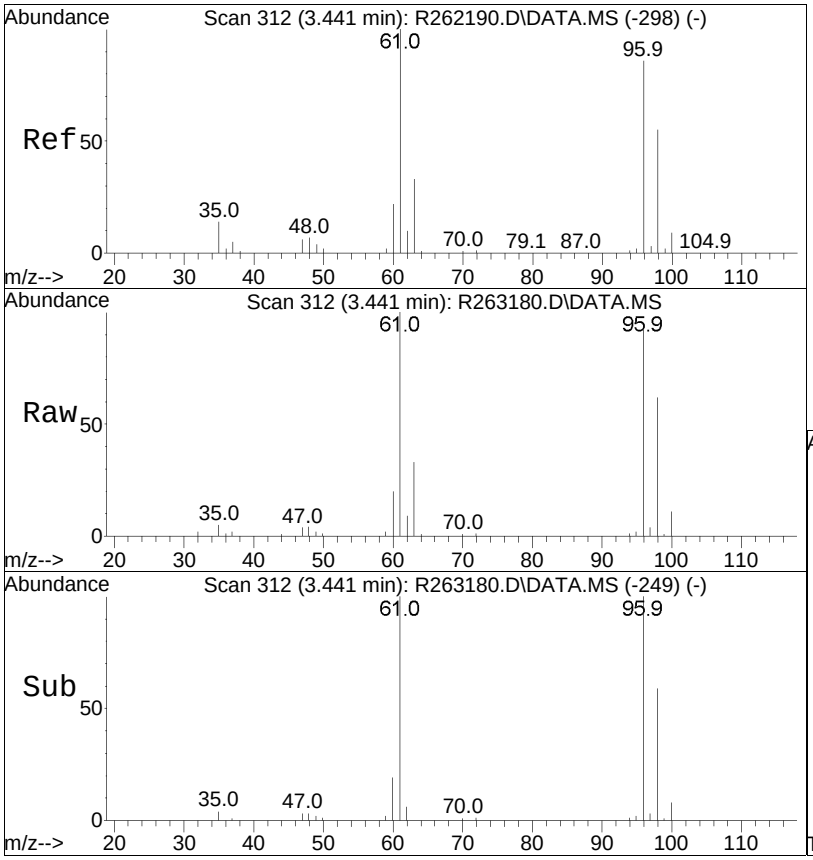


#36
2-butanone
Concen: 9.37 ppbV
RT: 3.279 min Scan# 285
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 43 Resp: 200992

Ion	Ratio	Lower	Upper
43	100		
72	34.9	27.1	40.7
57	9.7	7.4	11.2

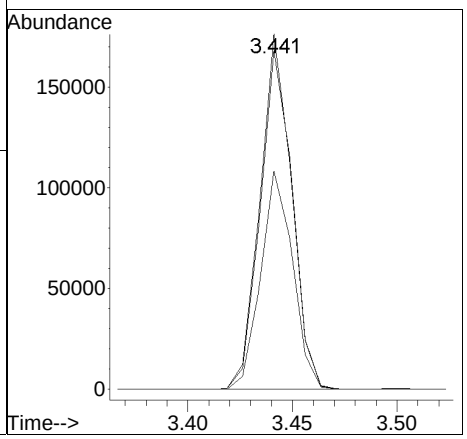


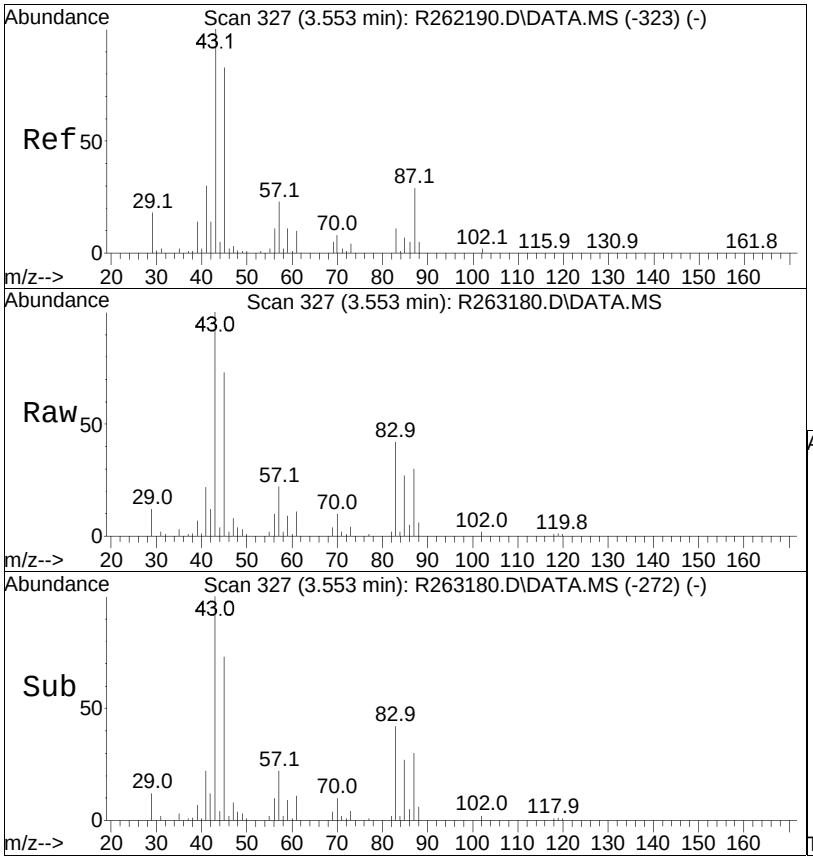


#37
cis-1,2-dichloroethene
Concen: 10.36 ppbV
RT: 3.441 min Scan# 312
Delta R.T. -0.007 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 61 Resp: 185020

Ion	Ratio	Lower	Upper
61	100		
96	95.4	79.7	119.5
98	61.5	48.9	73.3

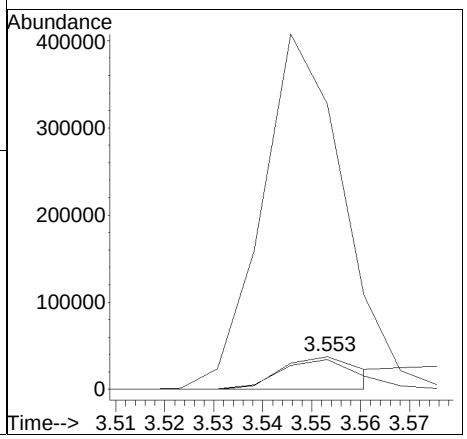


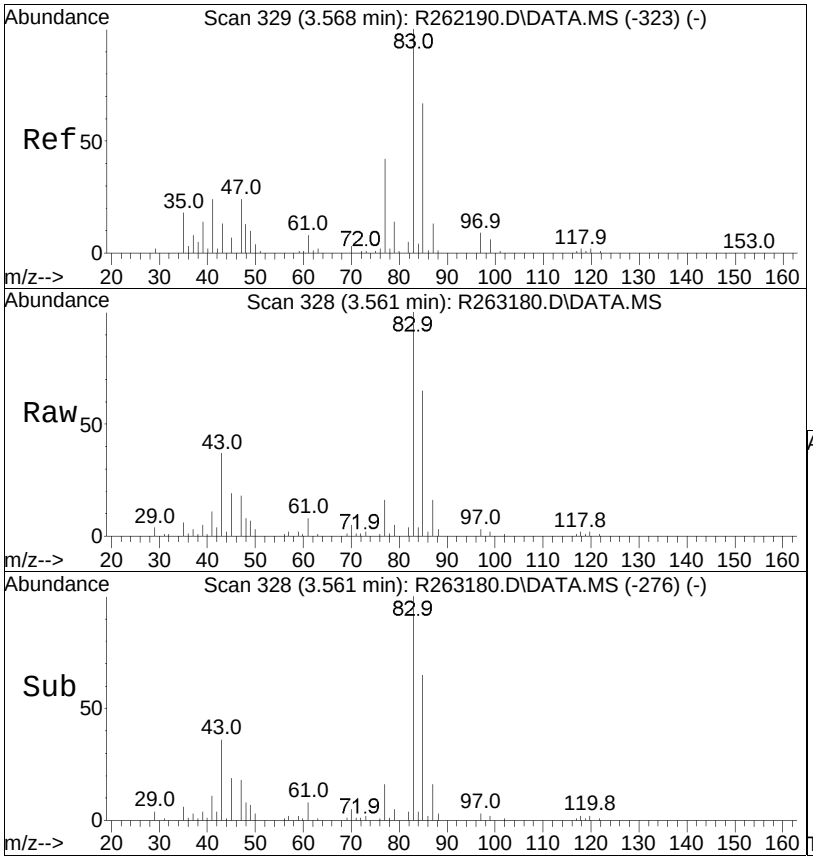


#38
Ethyl Acetate
Concen: 8.94 ppbV m
RT: 3.553 min Scan# 327
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 61 Resp: 42588

Ion	Ratio	Lower	Upper
61	100		
70	91.2	70.6	105.8
43	873.2	760.4	1140.6

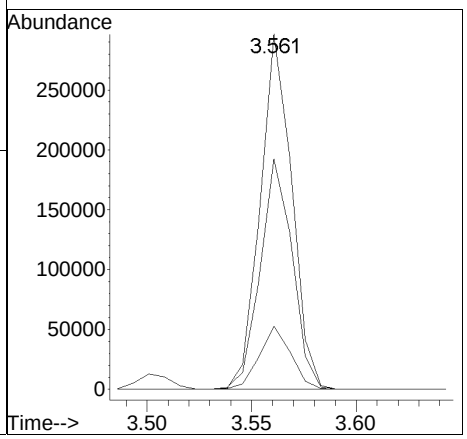


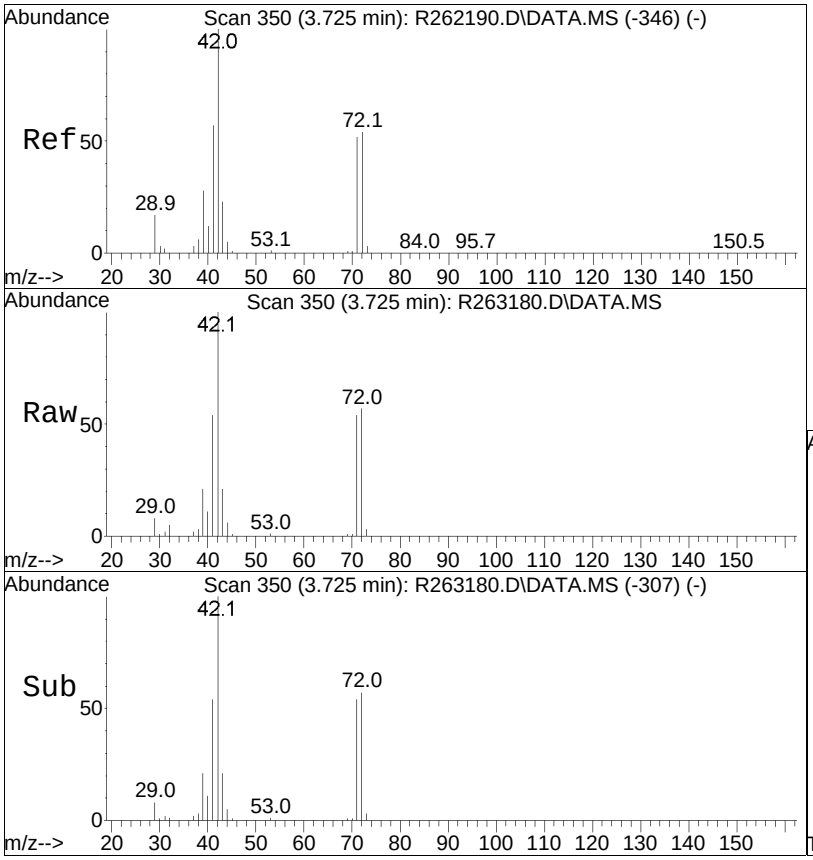


#39
chloroform
Concen: 10.79 ppbV
RT: 3.561 min Scan# 328
Delta R.T. -0.007 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 83 Resp: 311559

Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.6	78.8
47	17.8	14.1	21.1

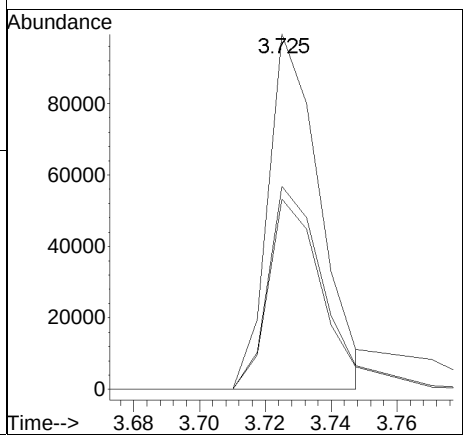


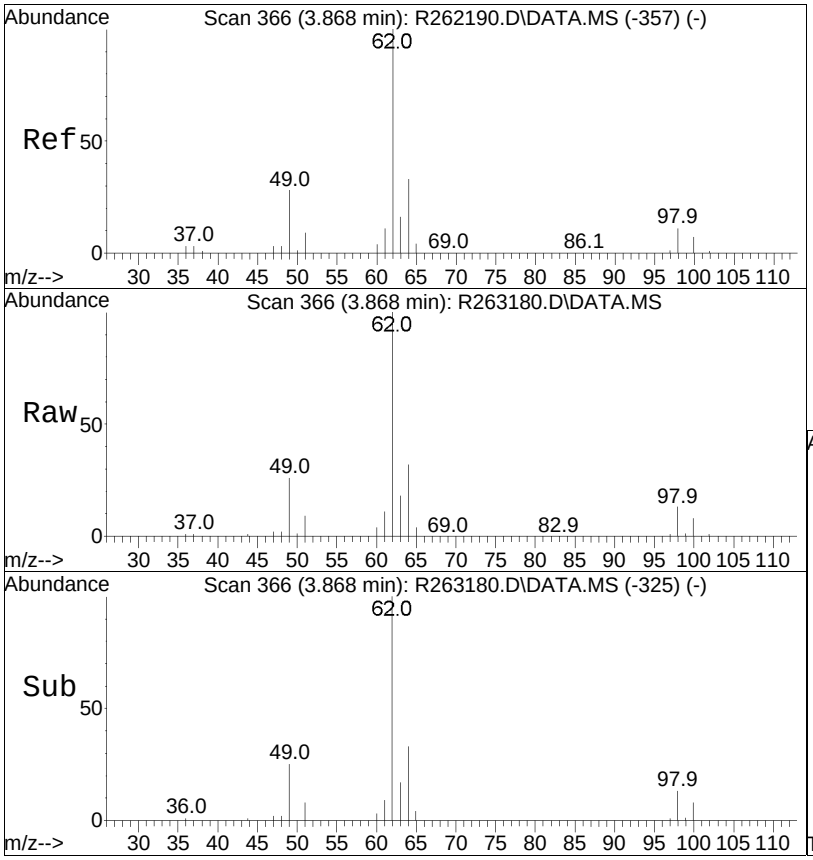


#40
Tetrahydrofuran
Concen: 10.47 ppbV m
RT: 3.725 min Scan# 350
Delta R.T. -0.007 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 42 Resp: 109033

Ion	Ratio	Lower	Upper
42	100		
71	53.6	45.4	68.2
72	57.2	47.4	71.0

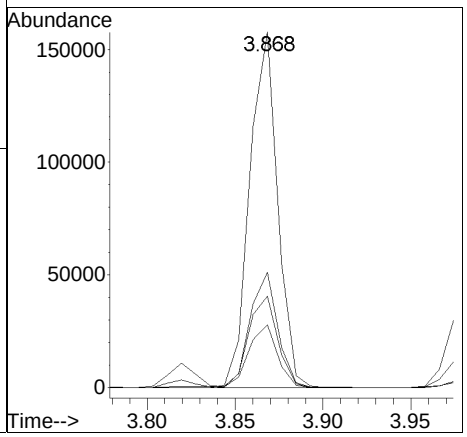


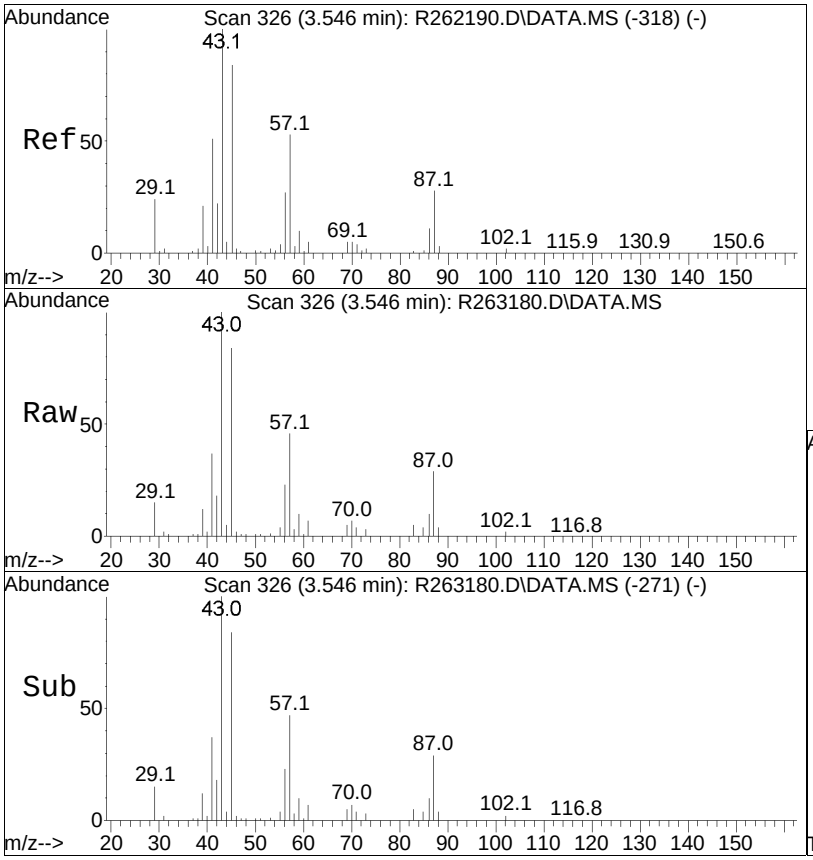


#42
1,2-dichloroethane
Concen: 10.24 ppbV
RT: 3.868 min Scan# 366
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 62 Resp: 174286

Ion	Ratio	Lower	Upper
62	100		
64	32.4	26.2	39.4
49	25.7	20.6	31.0
63	17.7	13.3	19.9

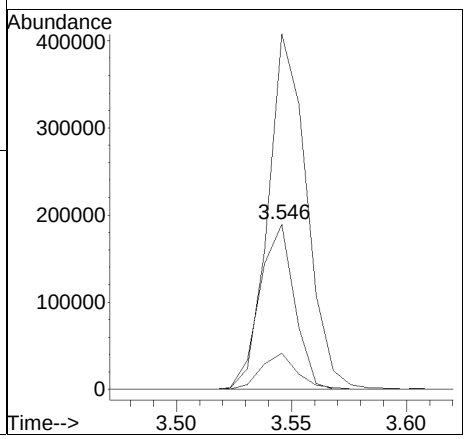


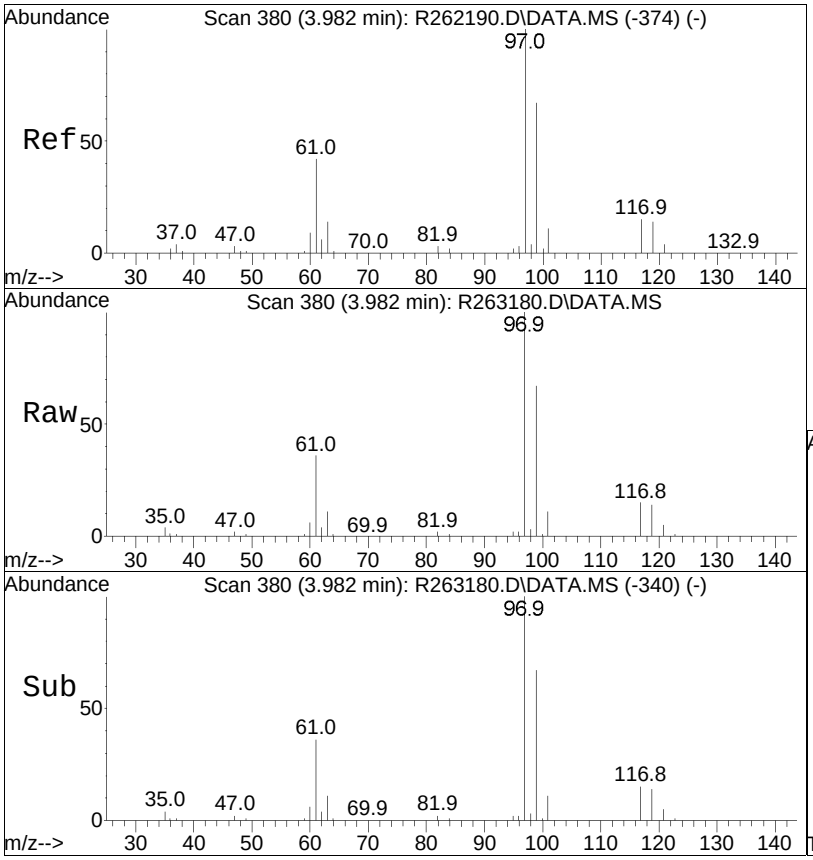


#44
hexane
Concen: 10.45 ppbV
RT: 3.546 min Scan# 326
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 57 Resp: 200300

Ion	Ratio	Lower	Upper
57	100		
43	215.2	140.7	211.1#
86	21.9	16.7	25.1

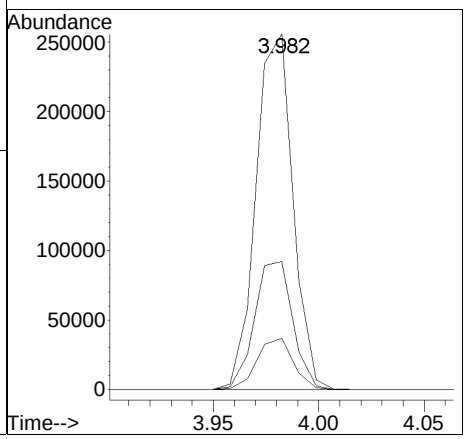


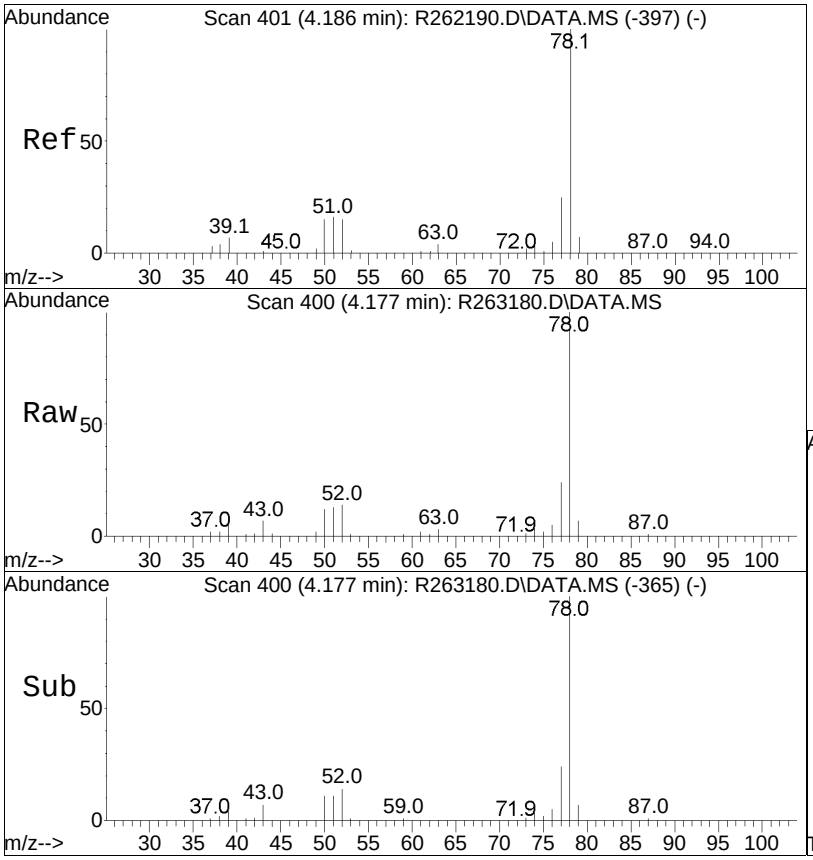


#48
1,1,1-trichloroethane
Concen: 10.80 ppbV
RT: 3.982 min Scan# 380
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 97 Resp: 311482

Ion	Ratio	Lower	Upper
97	100		
61	36.0	28.4	42.6
119	14.4	11.4	17.0

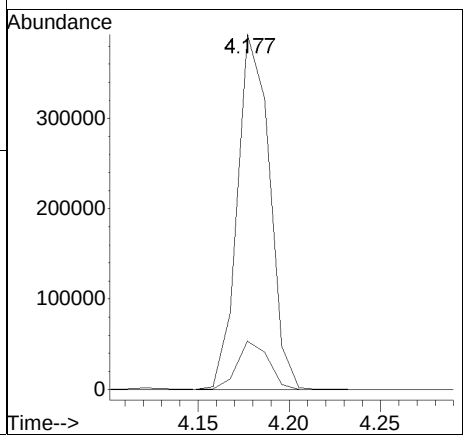


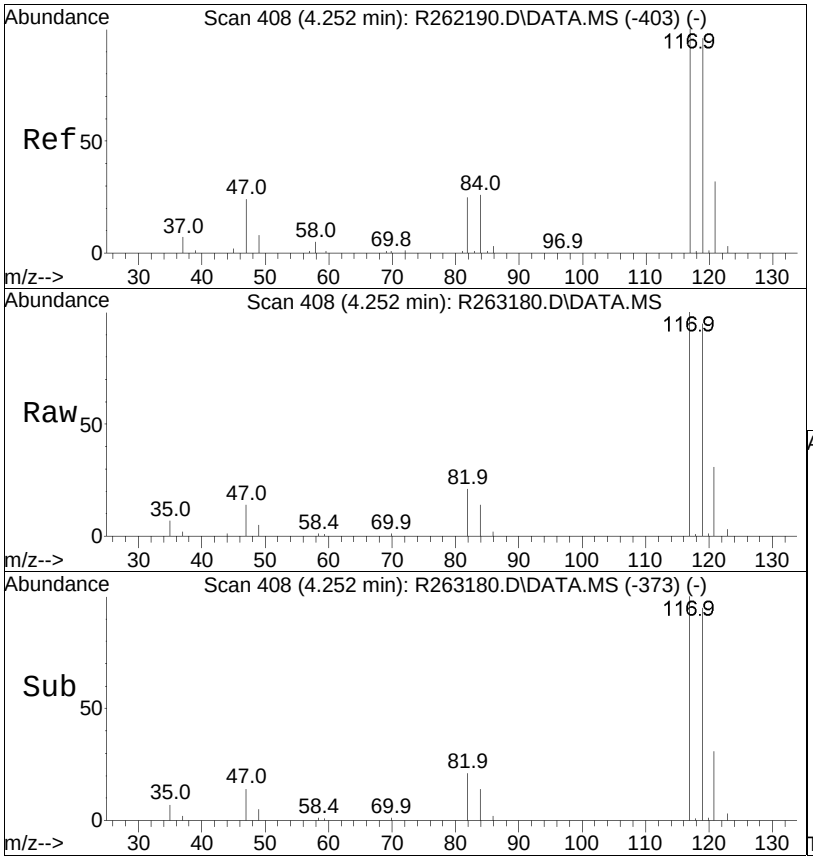


#50
benzene
Concen: 10.83 ppbV
RT: 4.177 min Scan# 400
Delta R.T. -0.009 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 78 Resp: 482430

Ion	Ratio	Lower	Upper
78	100		
52	13.6	10.3	15.5

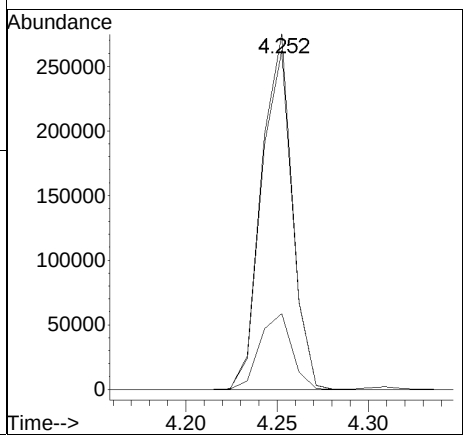


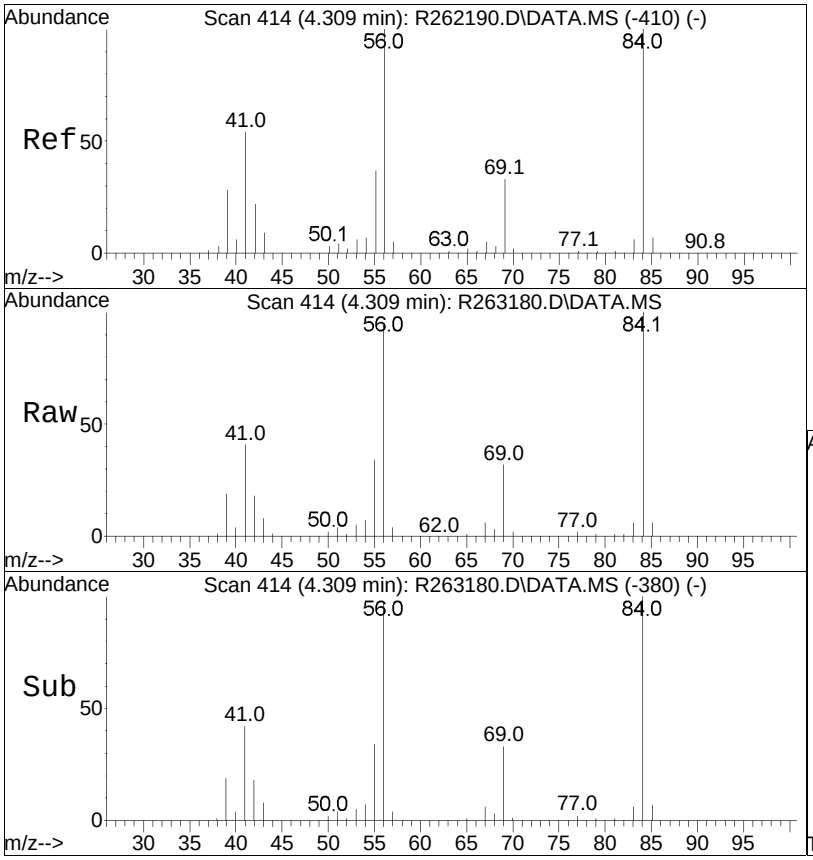


#52
carbon tetrachloride
Concen: 10.89 ppbV
RT: 4.252 min Scan# 408
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:117 Resp: 322662

Ion	Ratio	Lower	Upper
117	100		
119	95.4	76.7	115.1
82	21.4	17.0	25.6

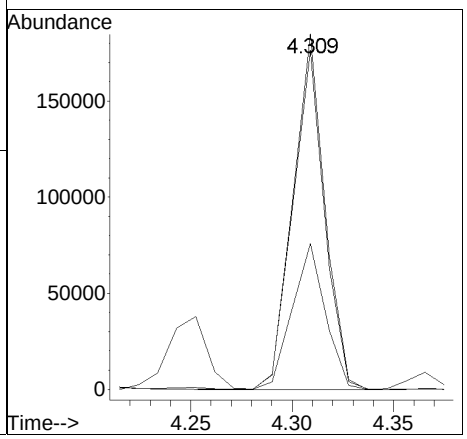


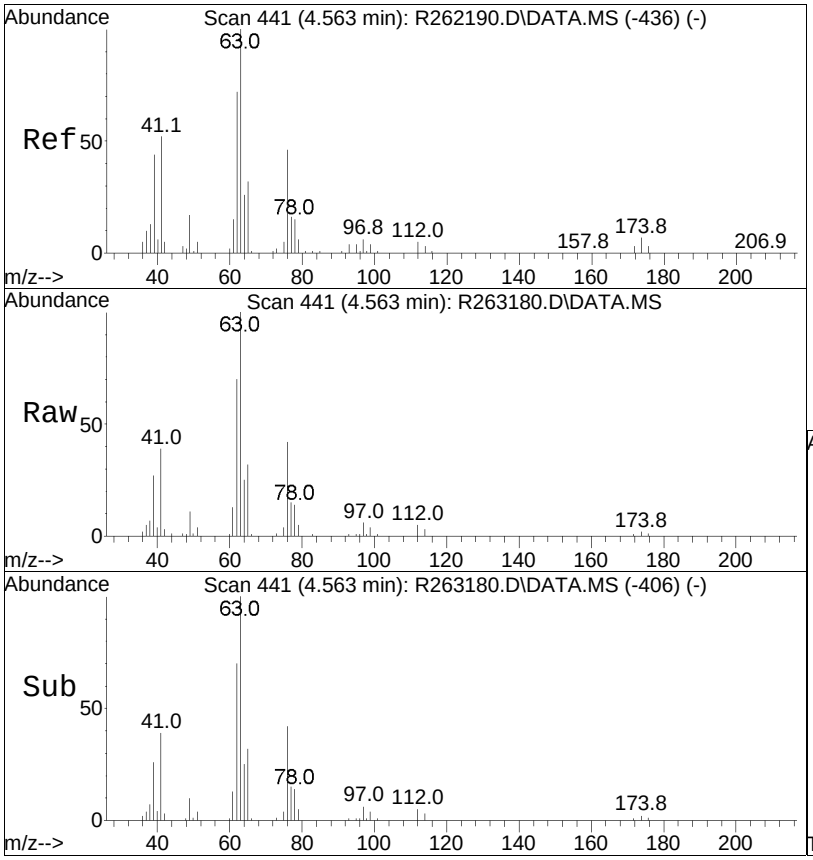


#53
cyclohexane
Concen: 10.11 ppbV
RT: 4.309 min Scan# 414
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 56 Resp: 192869

Ion	Ratio	Lower	Upper
56	100		
84	104.7	82.0	123.0
41	43.0	35.6	53.4

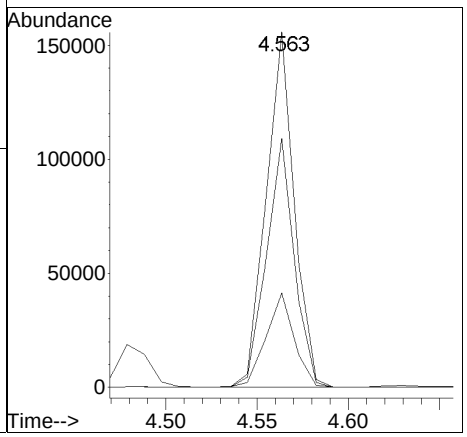


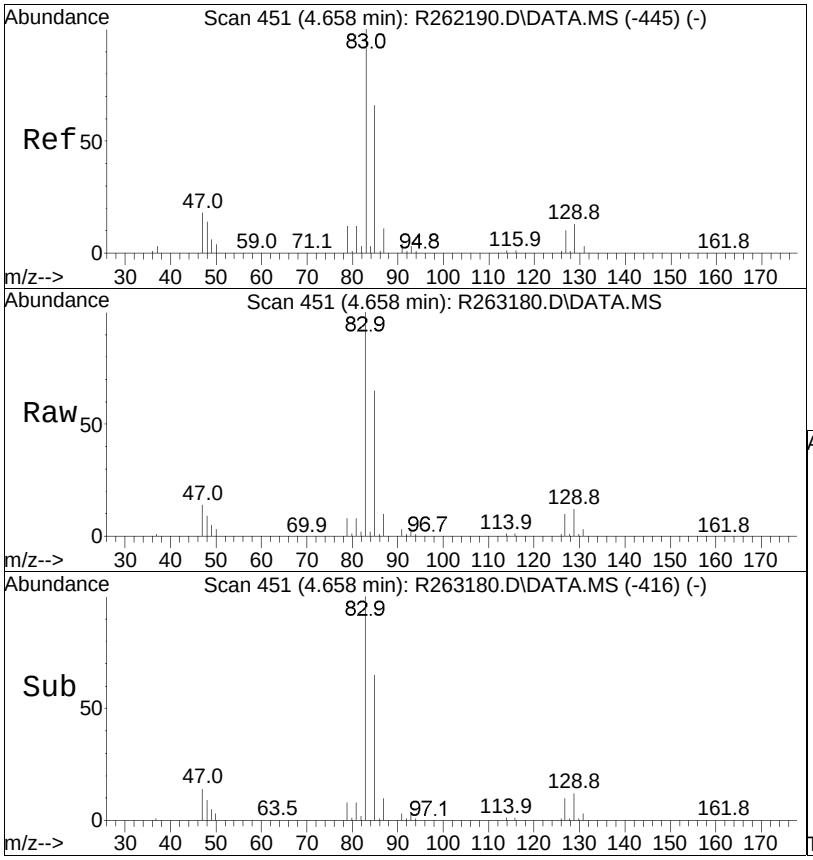


#56
1,2-dichloropropane
Concen: 11.24 ppbV
RT: 4.563 min Scan# 441
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 63 Resp: 167068

Ion	Ratio	Lower	Upper
63	100		
62	70.1	56.9	85.3
39	26.6	21.8	32.6

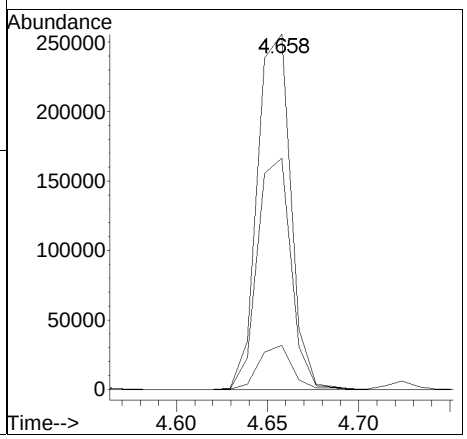


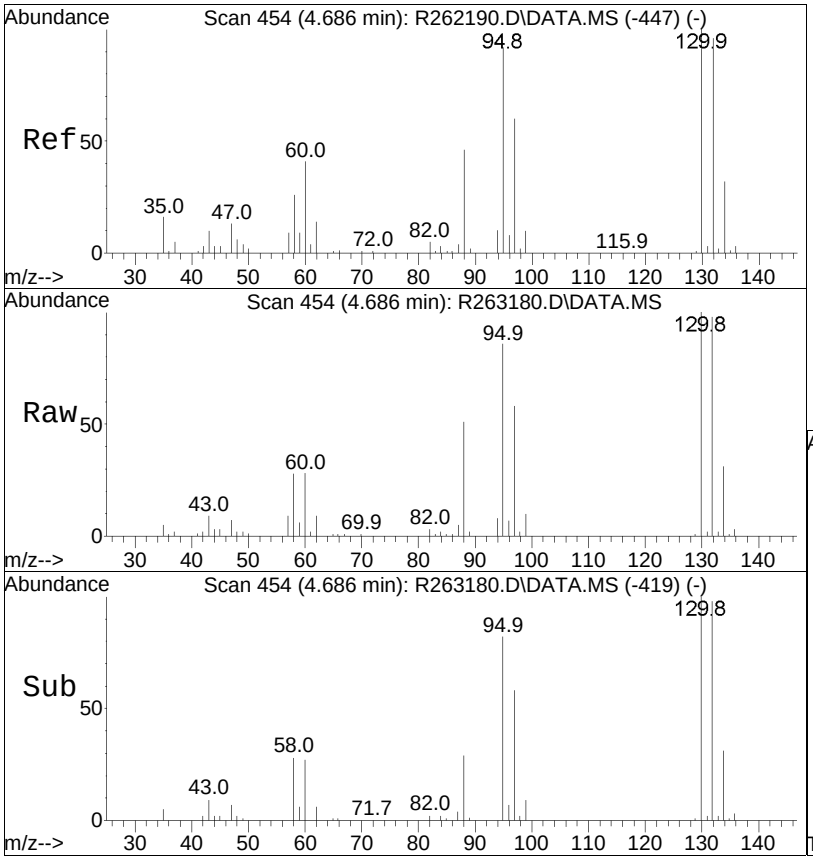


#57
bromodichloromethane
Concen: 11.32 ppbV
RT: 4.658 min Scan# 451
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 83 Resp: 327950

Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.9	77.9
129	12.4	9.9	14.9

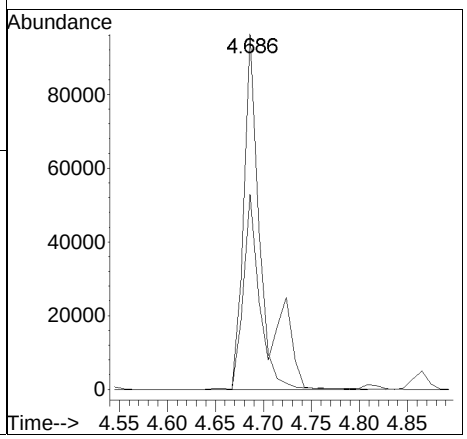


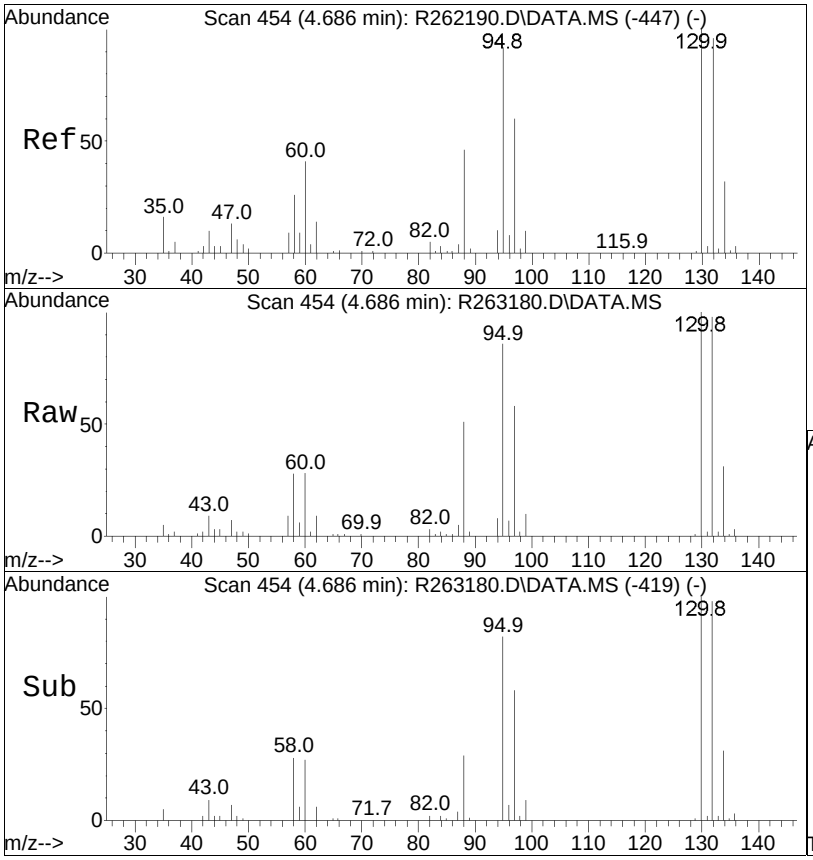


#58
1,4-dioxane
Concen: 10.79 ppbV
RT: 4.686 min Scan# 454
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 88 Resp: 105526

Ion	Ratio	Lower	Upper
88	100		
58	54.9	43.9	65.9

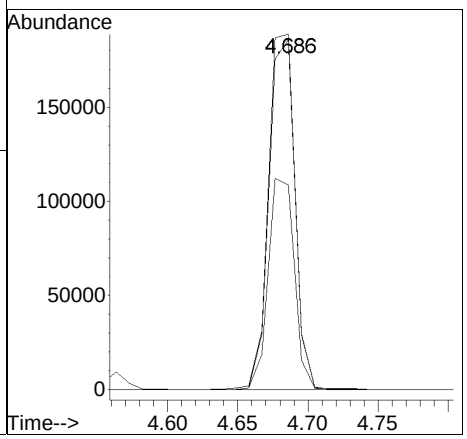


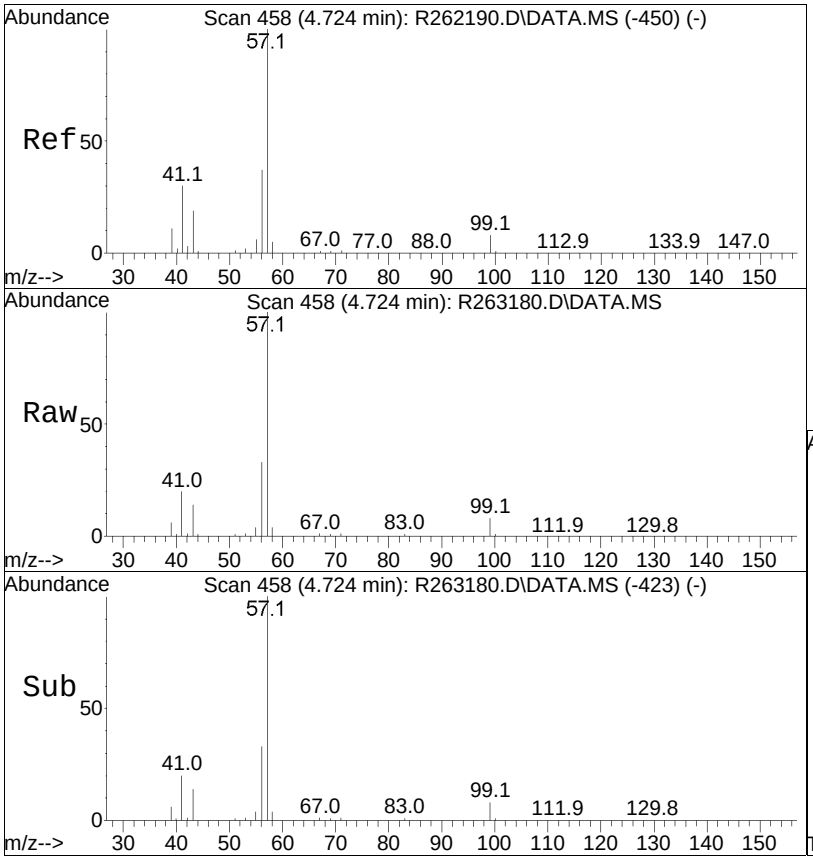


#59
trichloroethene
Concen: 10.80 ppbV
RT: 4.686 min Scan# 454
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:130 Resp: 249250

Ion	Ratio	Lower	Upper
130	100		
132	98.3	80.1	120.1
97	57.5	46.7	70.1

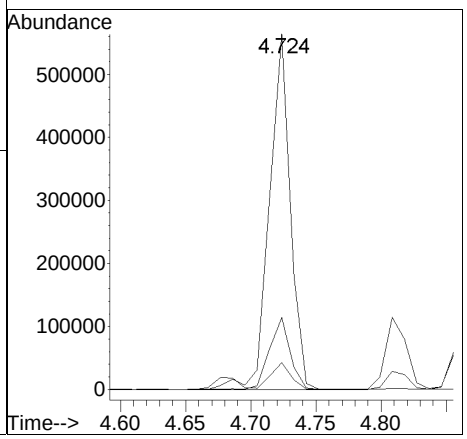


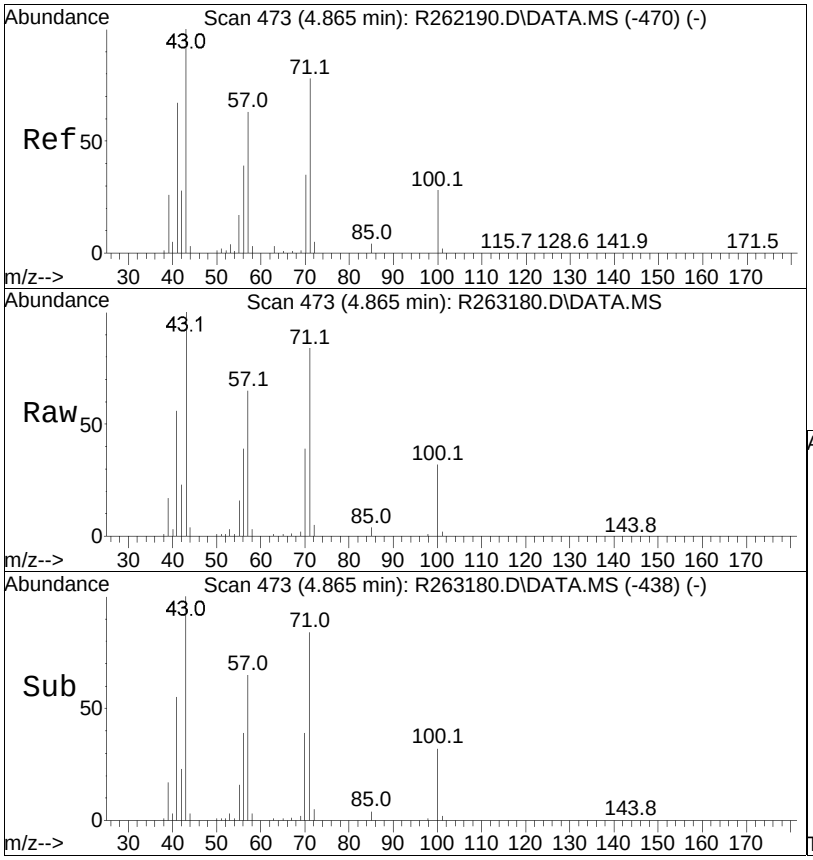


#60
2,2,4-trimethylpentane
Concen: 10.82 ppbV
RT: 4.724 min Scan# 458
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 57 Resp: 631684

Ion	Ratio	Lower	Upper
57	100		
99	7.5	6.0	9.0
41	20.2	16.3	24.5

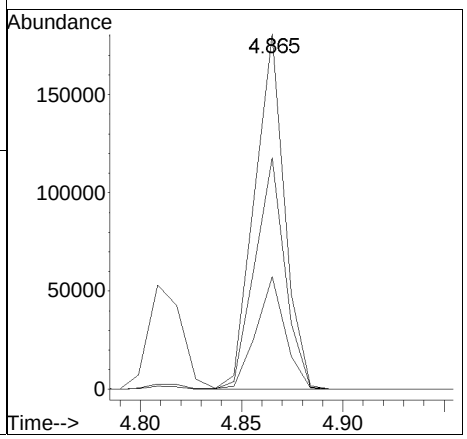


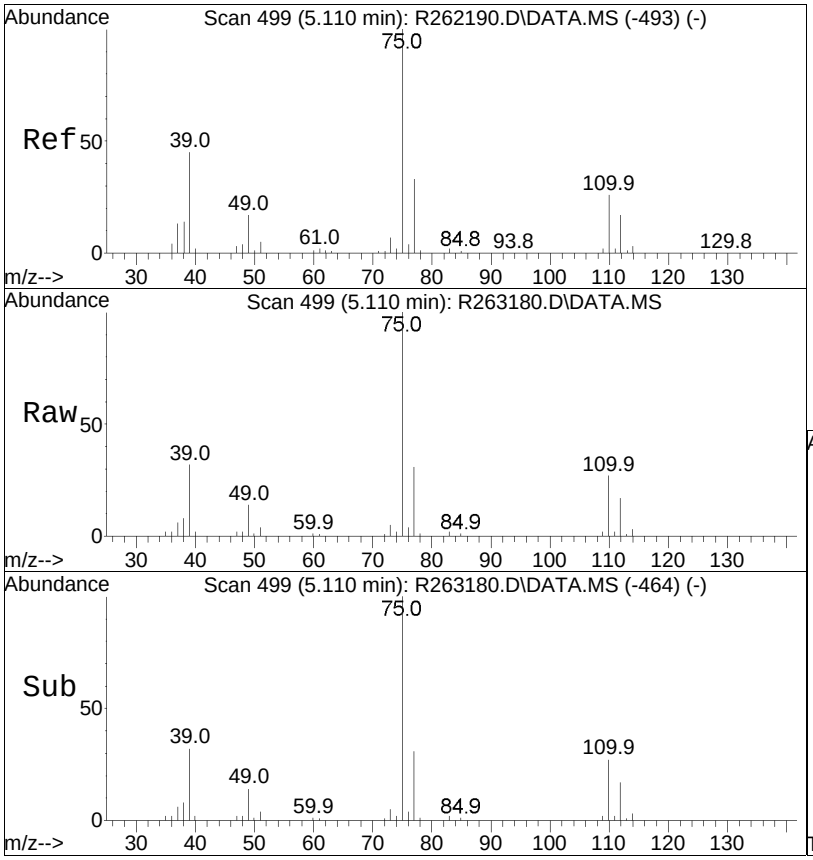


#62
heptane
Concen: 10.10 ppbV
RT: 4.865 min Scan# 473
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 43 Resp: 187913

Ion	Ratio	Lower	Upper
43	100		
57	65.2	52.1	78.1
100	31.7	24.8	37.2

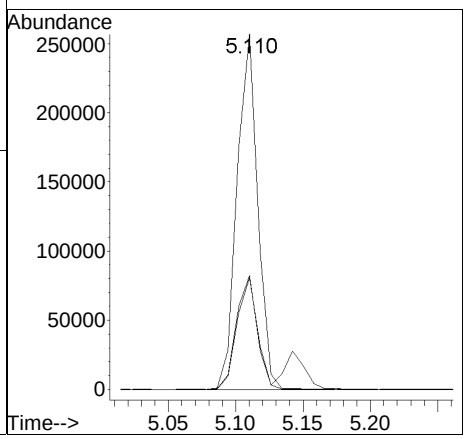


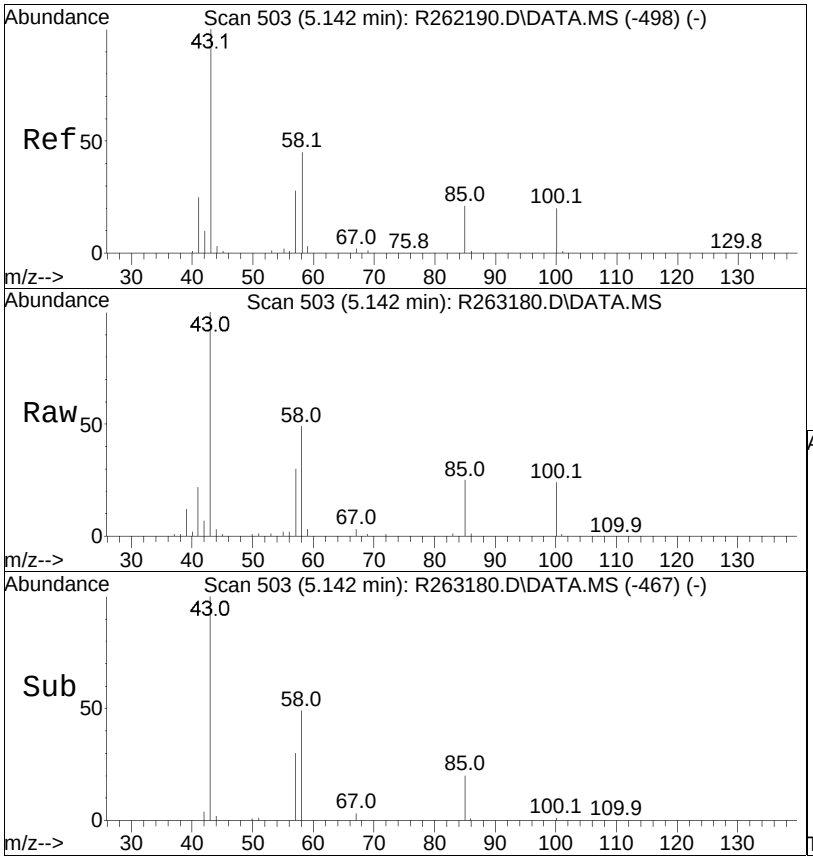


#63
cis-1,3-dichloropropene
Concen: 11.64 ppbV
RT: 5.110 min Scan# 499
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 75 Resp: 274959

Ion	Ratio	Lower	Upper
75	100		
39	32.0	25.4	38.2
77	31.5	25.8	38.8

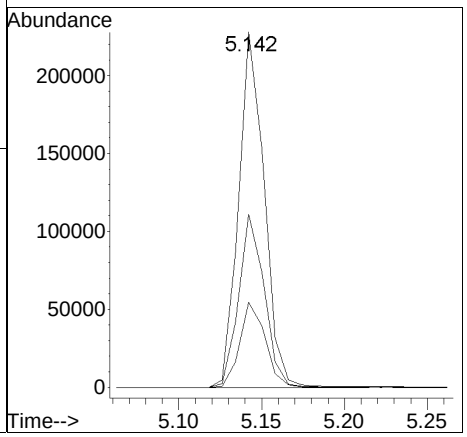


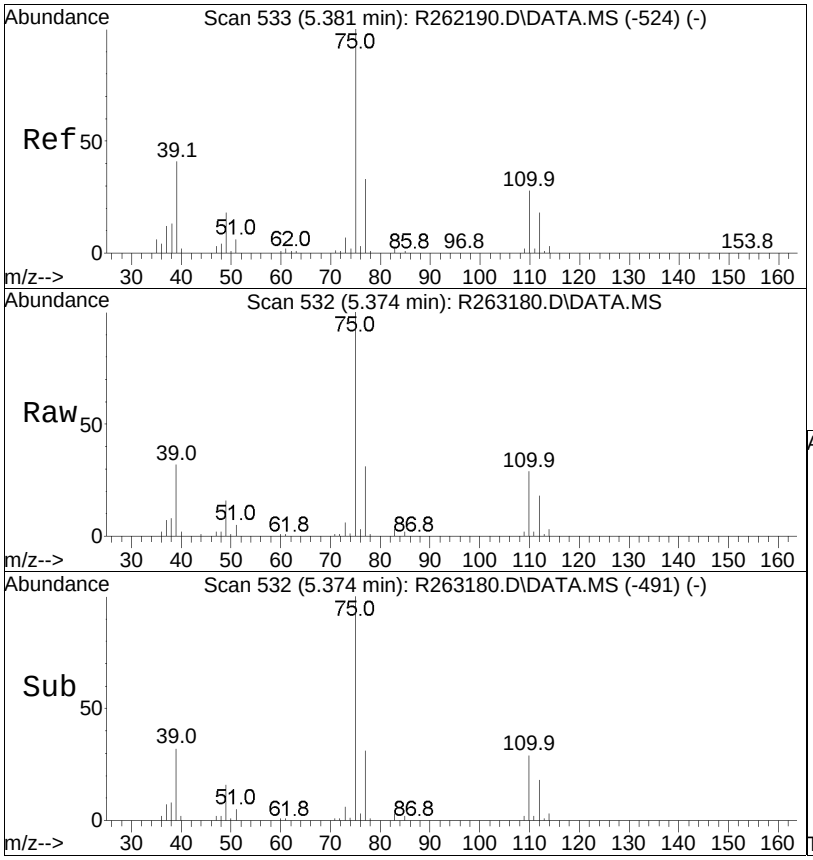


#64
4-methyl-2-pentanone
Concen: 10.56 ppbV
RT: 5.142 min Scan# 503
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 43 Resp: 245569

Ion	Ratio	Lower	Upper
43	100		
58	48.7	38.8	58.2
100	23.9	18.2	27.4

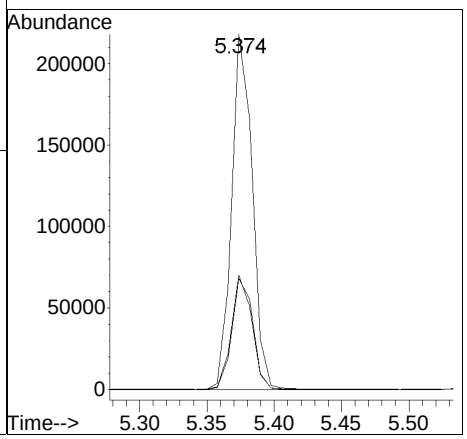


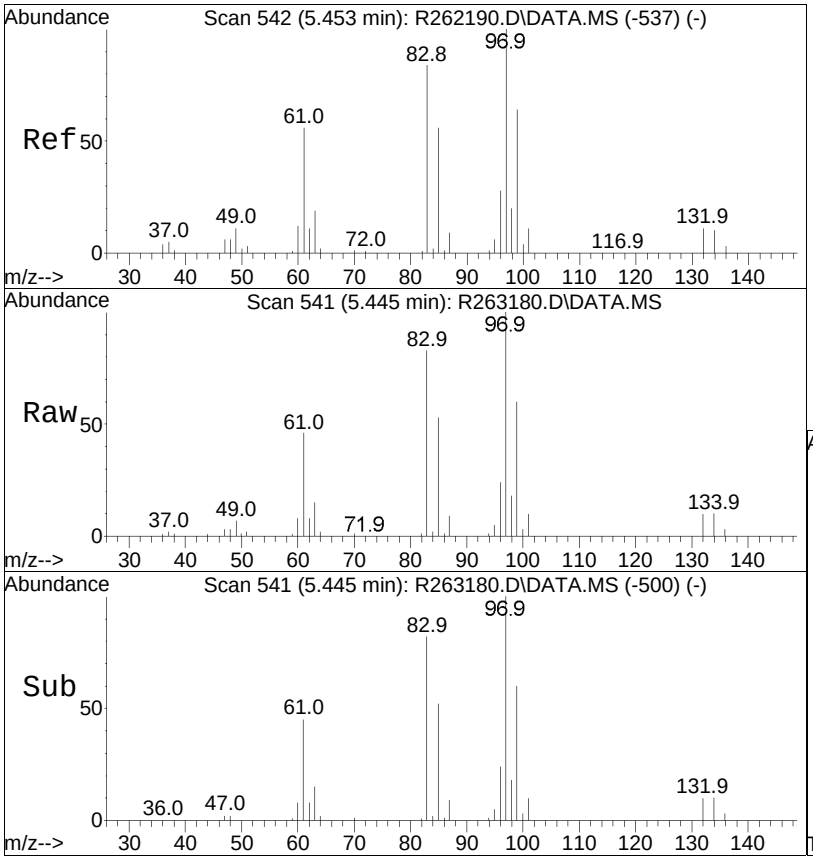


#65
trans-1,3-dichloropropene
Concen: 12.39 ppbV
RT: 5.374 min Scan# 532
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 75 Resp: 233280

Ion	Ratio	Lower	Upper
75	100		
77	31.2	25.9	38.9
39	32.2	25.5	38.3

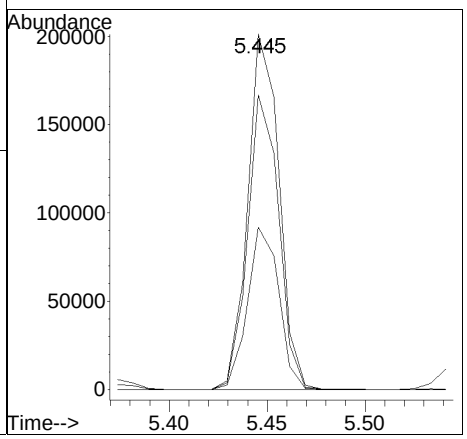


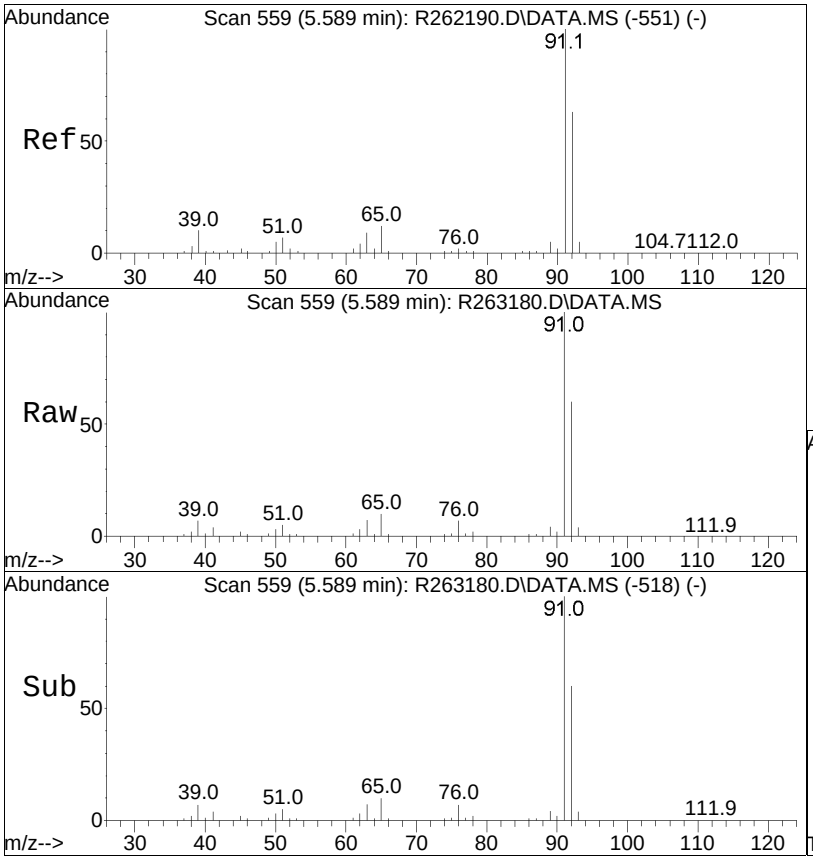


#66
1,1,2-trichloroethane
Concen: 11.62 ppbV
RT: 5.445 min Scan# 541
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 97 Resp: 223848

Ion	Ratio	Lower	Upper
97	100		
83	82.9	65.6	98.4
61	45.6	37.9	56.9

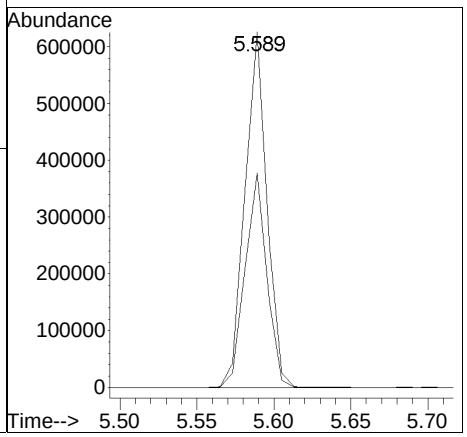


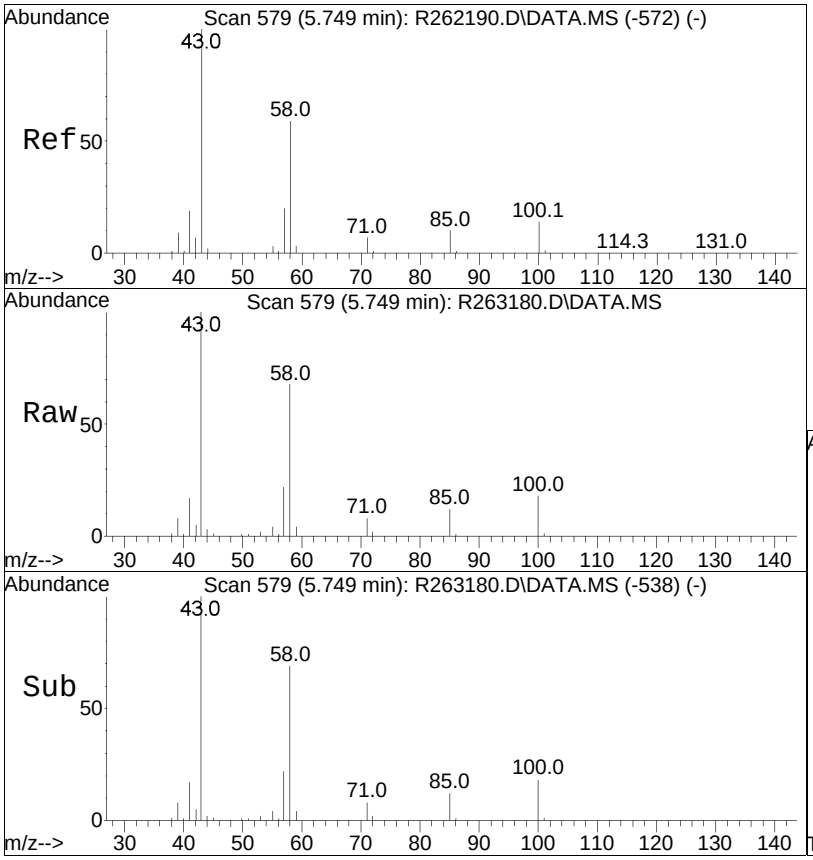


#68
toluene
Concen: 10.98 ppbV
RT: 5.589 min Scan# 559
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 91 Resp: 619664

Ion	Ratio	Lower	Upper
91	100		
92	60.3	47.9	71.9

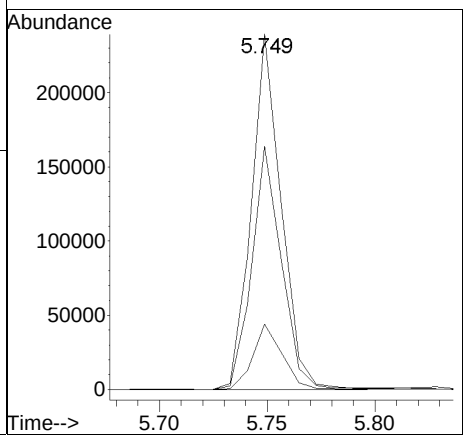


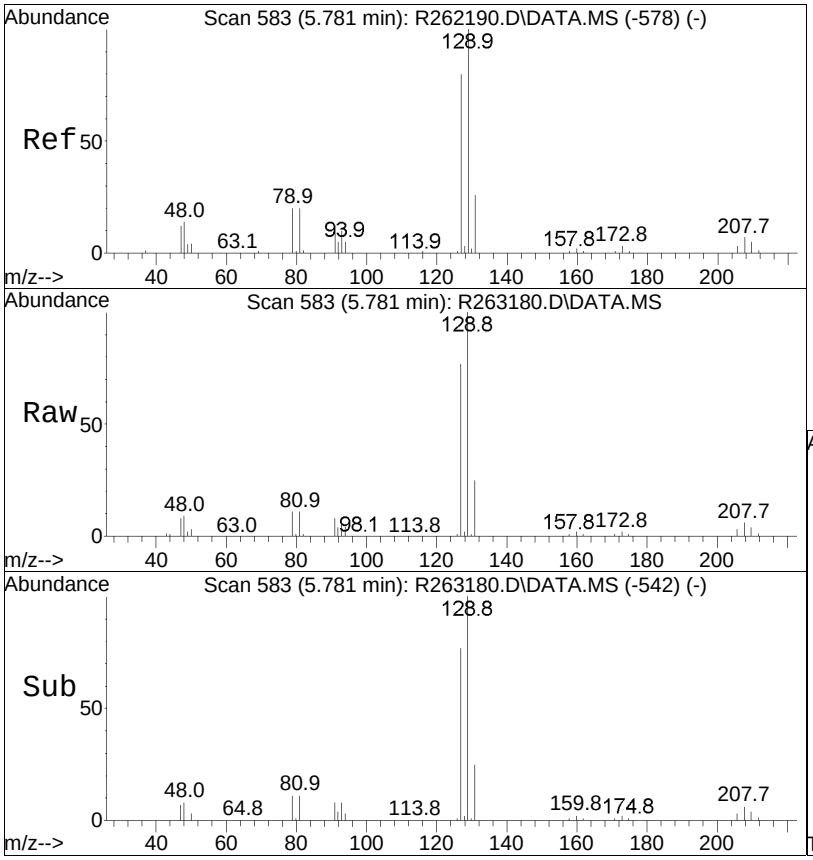


#72
2-hexanone
Concen: 10.40 ppbV
RT: 5.749 min Scan# 579
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 43 Resp: 230957

Ion	Ratio	Lower	Upper
43	100		
58	68.5	53.8	80.6
100	18.4	15.2	22.8

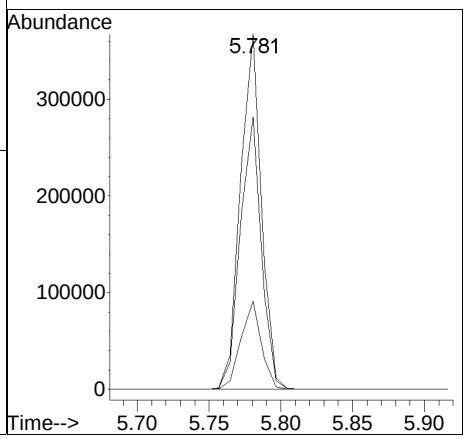


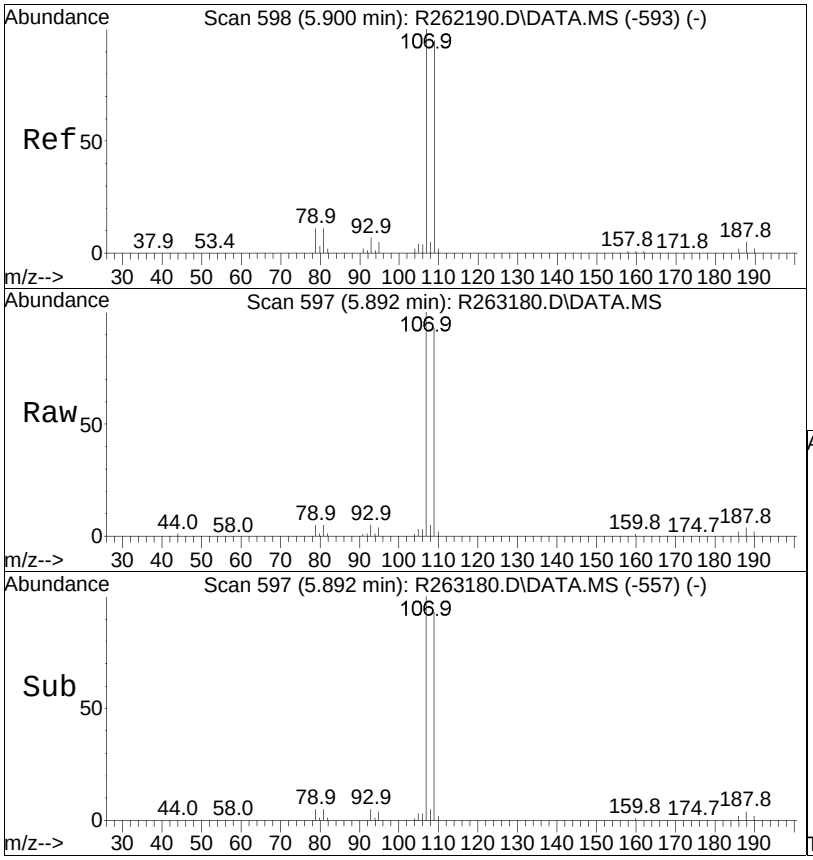


#74
dibromochloromethane
Concen: 11.69 ppbV
RT: 5.781 min Scan# 583
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:129 Resp: 374304

Ion	Ratio	Lower	Upper
129	100		
127	76.8	62.6	94.0
131	24.8	19.4	29.0

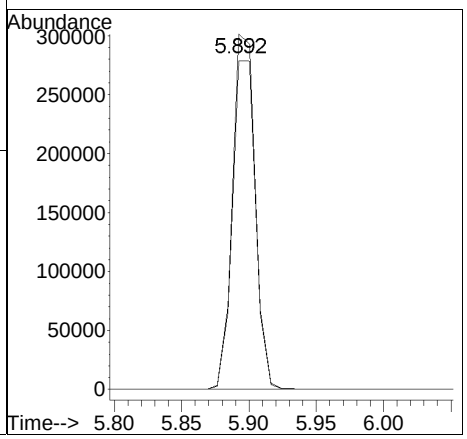


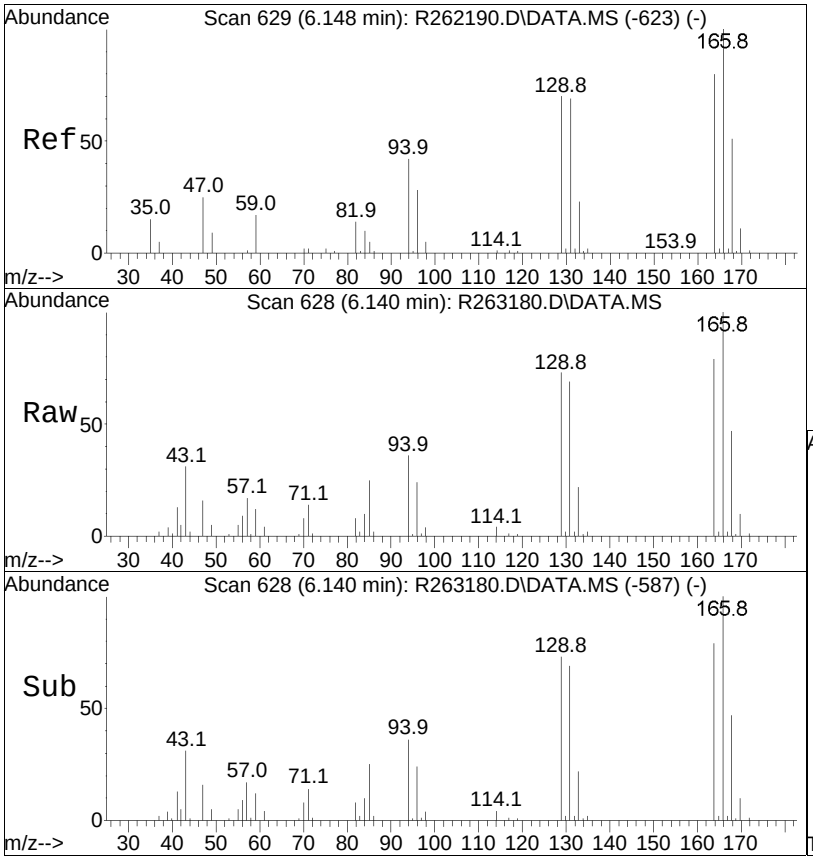


#75
1,2-dibromoethane
Concen: 11.94 ppbV
RT: 5.892 min Scan# 597
Delta R.T. -0.008 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:107 Resp: 356474

Ion	Ratio	Lower	Upper
107	100		
109	92.5	76.9	115.3

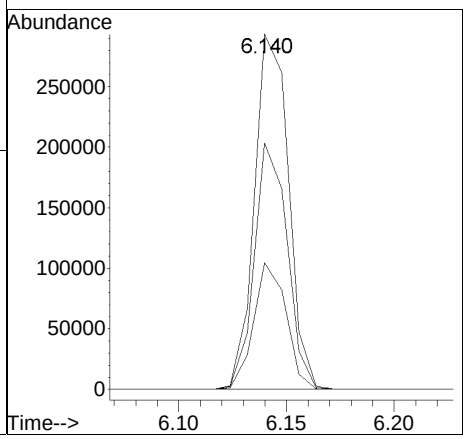


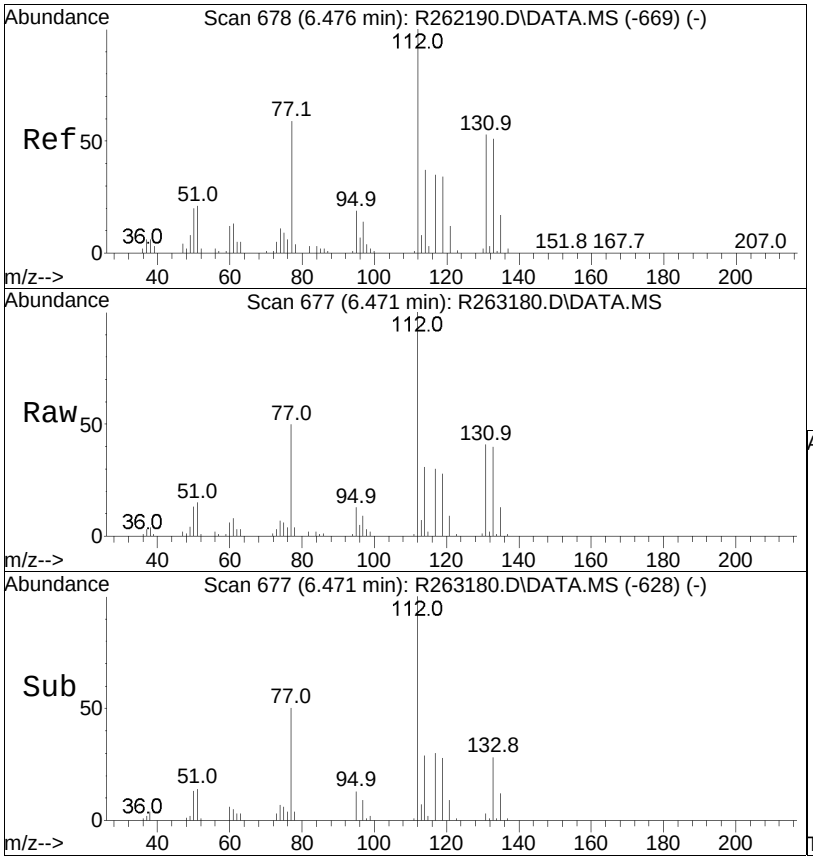


#78
tetrachloroethene
Concen: 10.89 ppbV
RT: 6.140 min Scan# 628
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:166 Resp: 323506

Ion	Ratio	Lower	Upper
166	100		
131	69.4	57.0	85.4
94	35.6	29.0	43.4

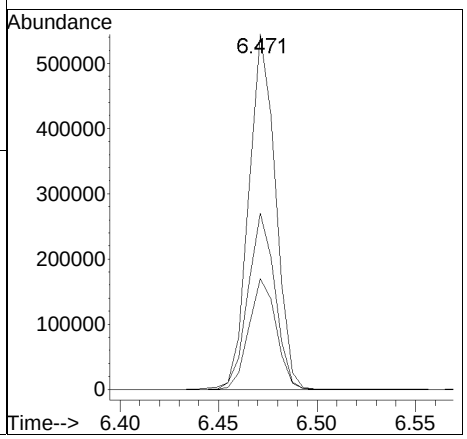


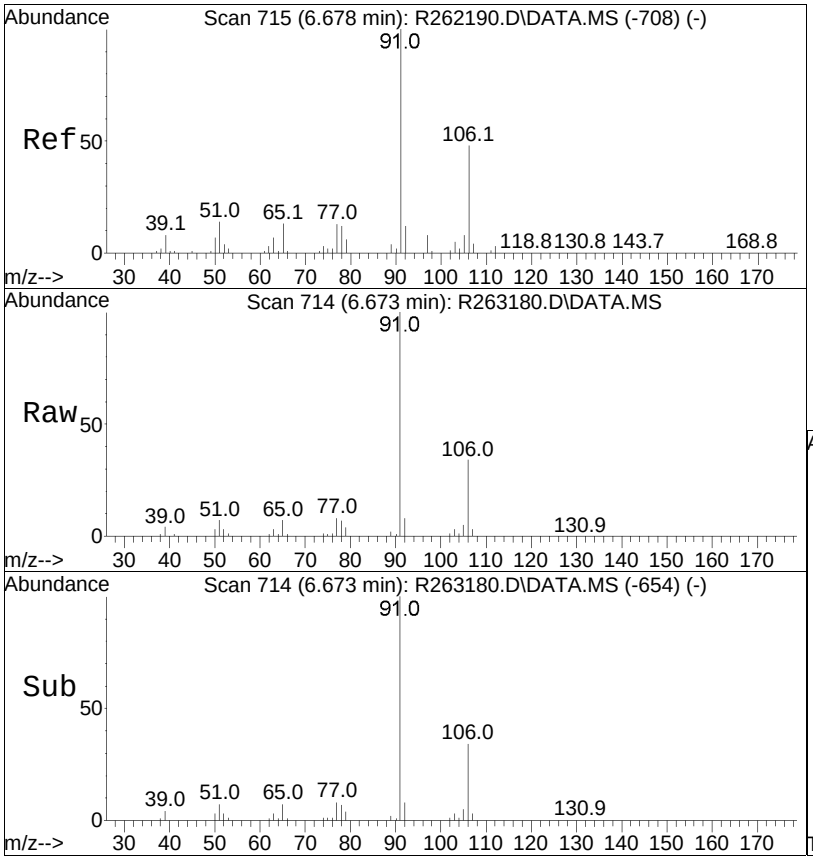


#80
chlorobenzene
Concen: 11.00 ppbV
RT: 6.471 min Scan# 677
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:112 Resp: 513228

Ion	Ratio	Lower	Upper
112	100		
114	31.2	25.7	38.5
77	49.6	41.0	61.6

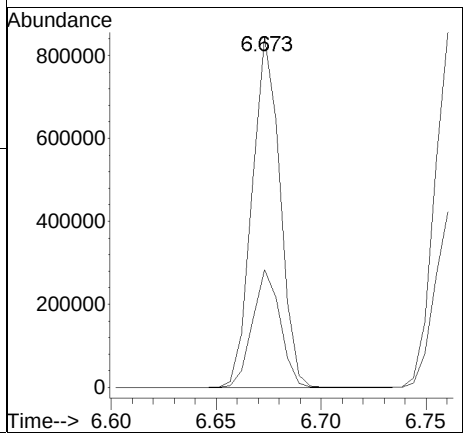


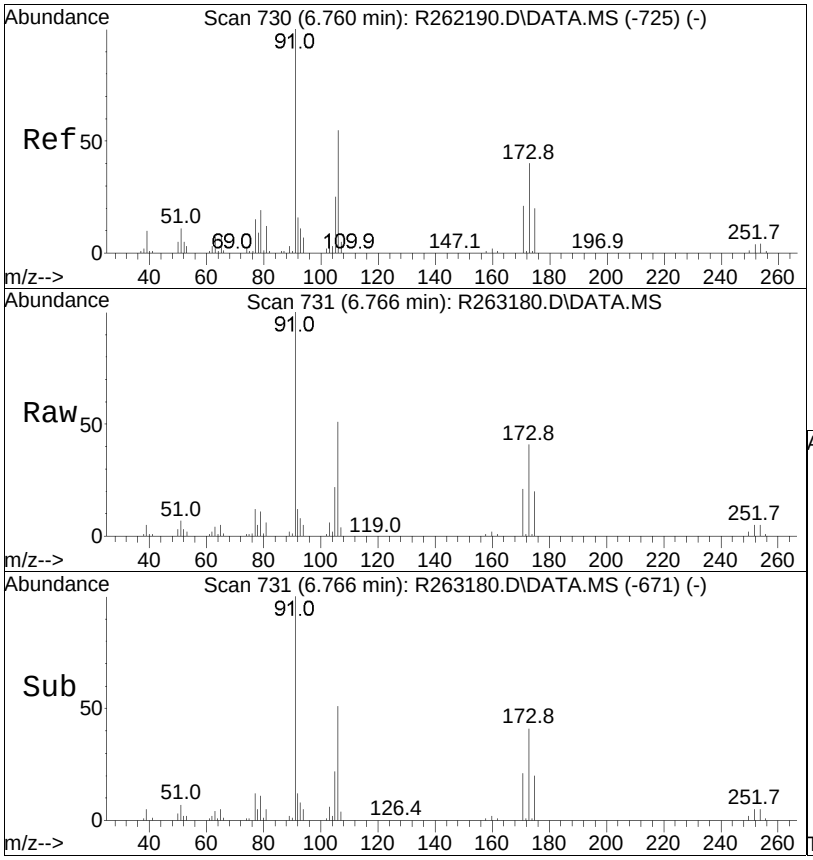


#81
ethylbenzene
Concen: 10.78 ppbV
RT: 6.673 min Scan# 714
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 91 Resp: 779420

Ion	Ratio	Lower	Upper
91	100		
106	33.6	26.6	39.8

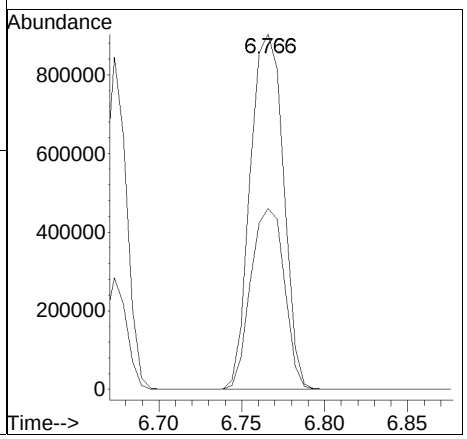


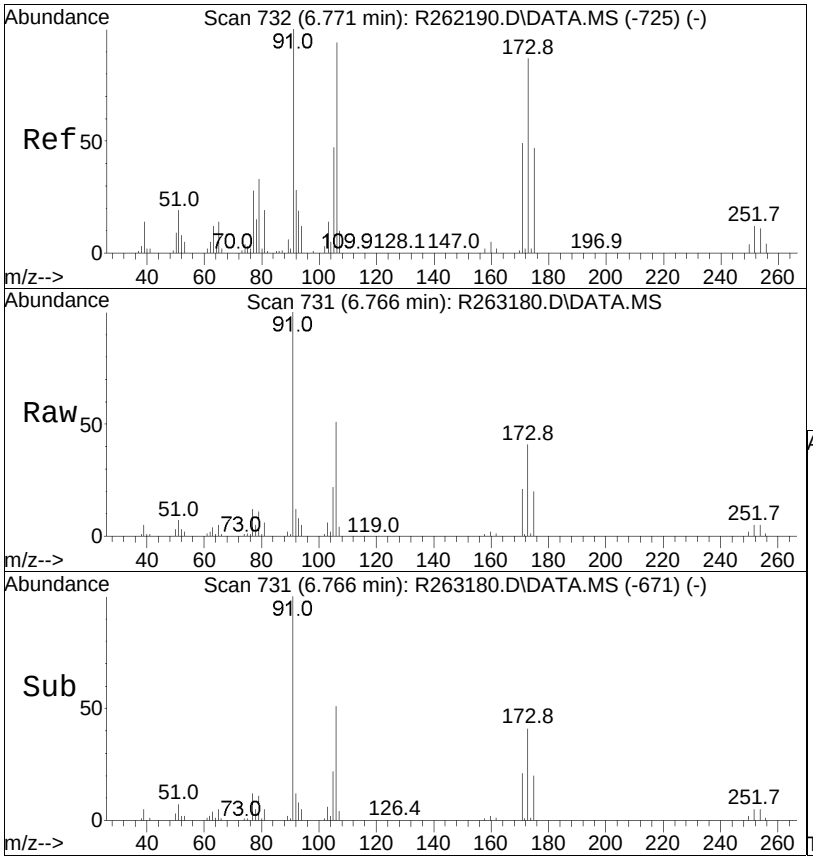


#83
m+p-xylene
Concen: 22.34 ppbV
RT: 6.766 min Scan# 731
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 91 Resp: 1262213

Ion	Ratio	Lower	Upper
91	100		
106	50.9	40.6	60.8

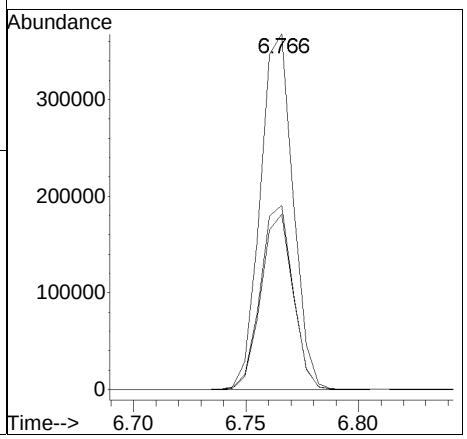


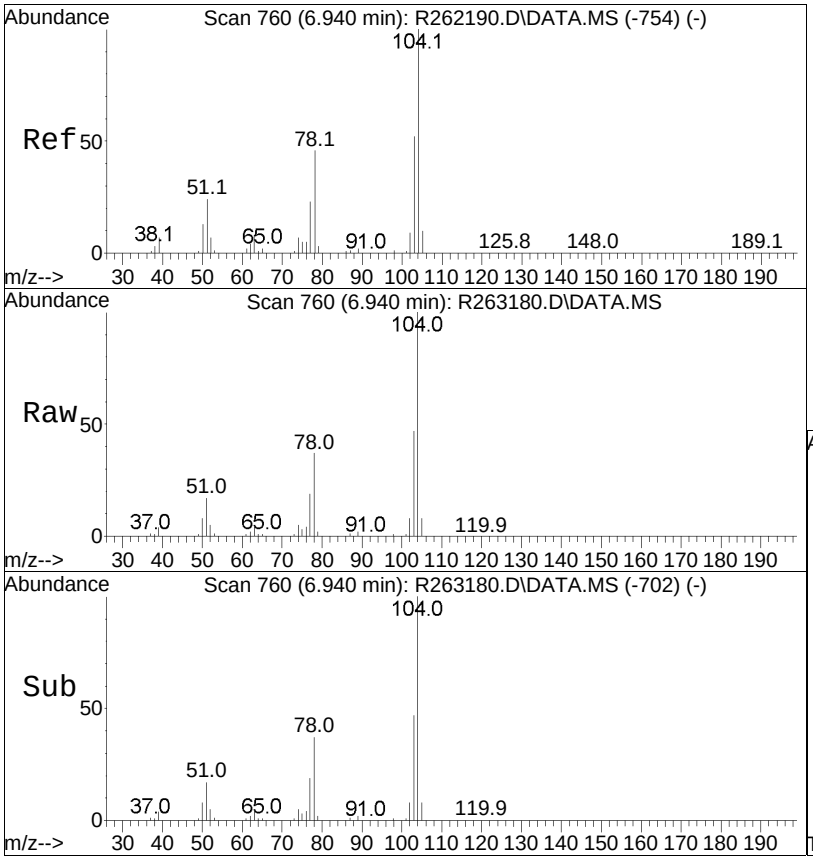


#84
bromoform
Concen: 11.87 ppbV
RT: 6.766 min Scan# 731
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:173 Resp: 373810

Ion	Ratio	Lower	Upper
173	100		
175	49.3	38.6	58.0
171	51.8	41.4	62.0

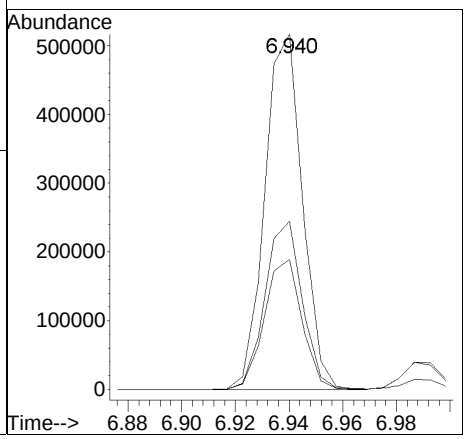


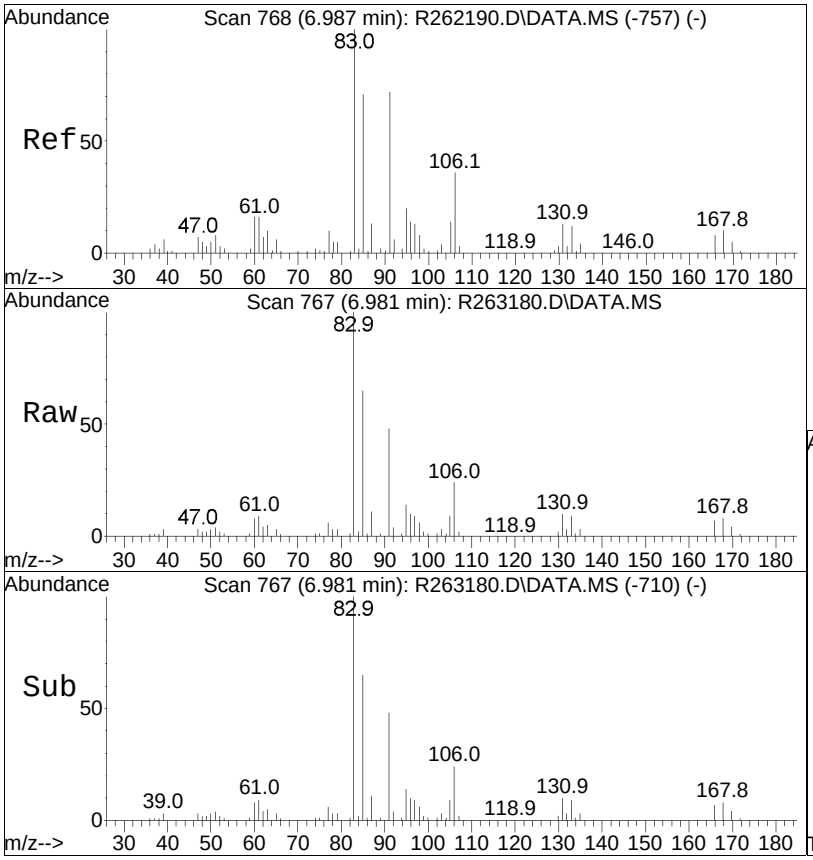


#85
styrene
Concen: 11.15 ppbV
RT: 6.940 min Scan# 760
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:104 Resp: 503365

Ion	Ratio	Lower	Upper
104	100		
103	47.3	37.4	56.0
78	36.6	29.0	43.6

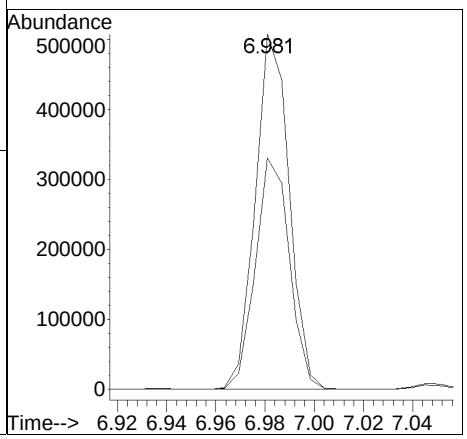


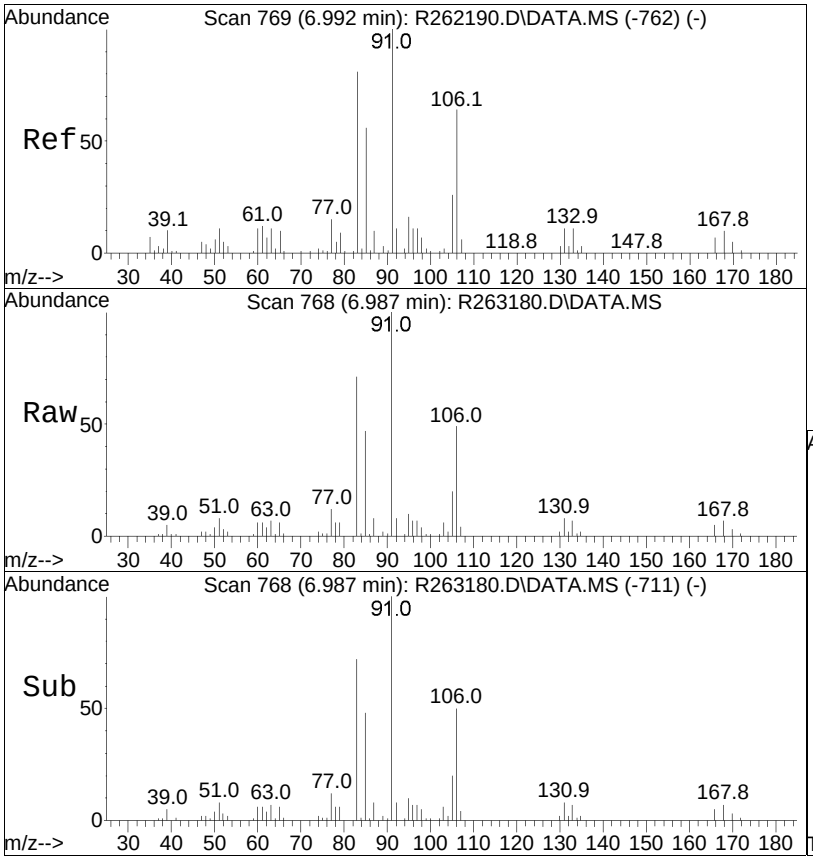


#86
1,1,2,2-tetrachloroethane
Concen: 12.00 ppbV
RT: 6.981 min Scan# 767
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 83 Resp: 487356

Ion	Ratio	Lower	Upper
83	100		
85	65.1	51.4	77.2

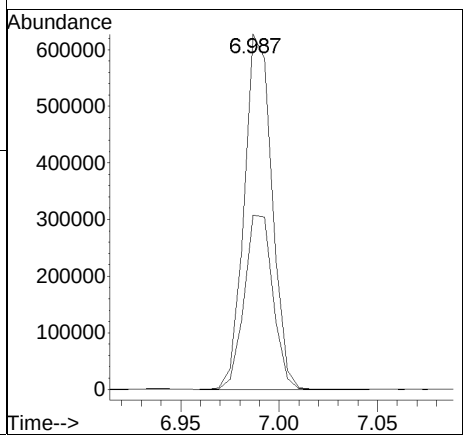


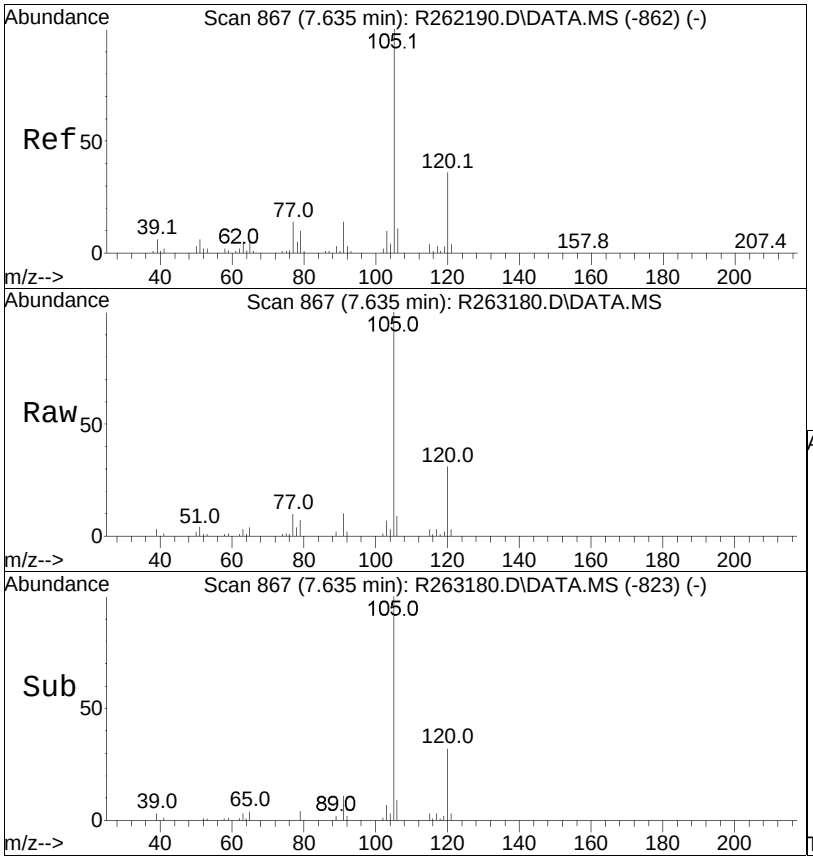


#87
o-xylene
Concen: 11.08 ppbV
RT: 6.987 min Scan# 768
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 91 Resp: 616307

Ion	Ratio	Lower	Upper
91	100		
106	49.1	40.8	61.2

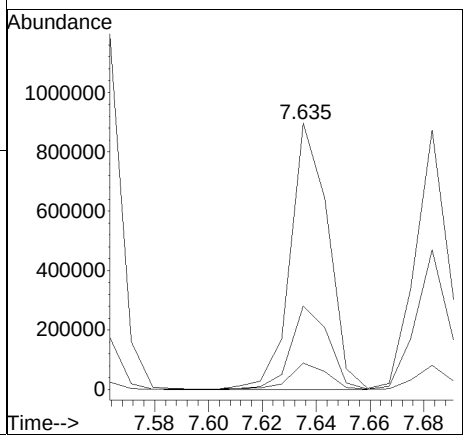


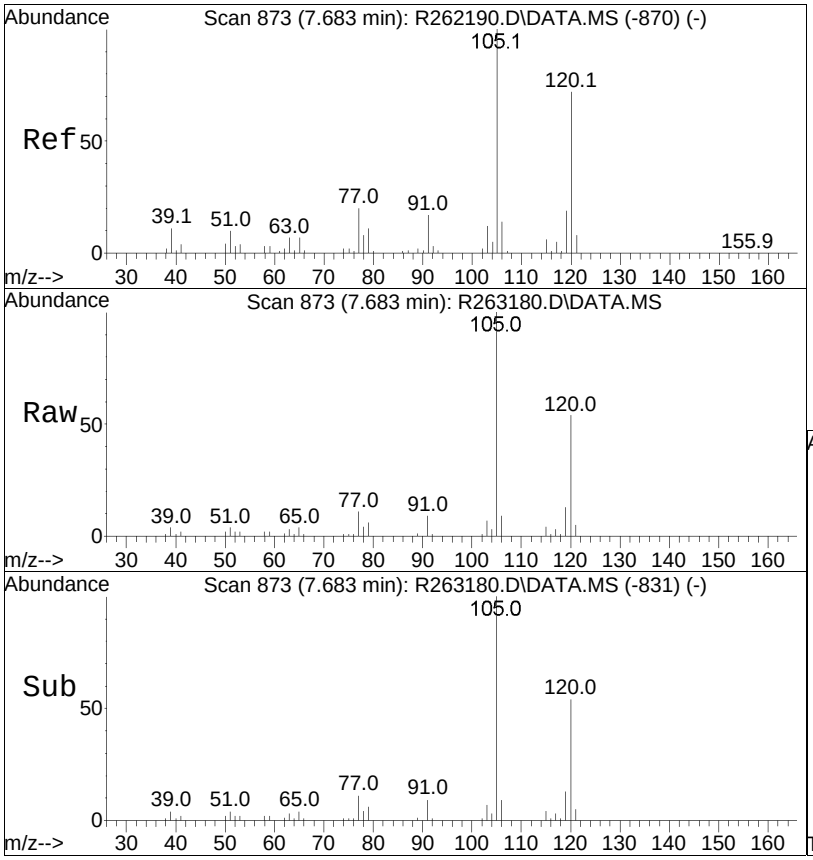


#96
4-ethyl toluene
Concen: 11.21 ppbV
RT: 7.635 min Scan# 867
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:105 Resp: 874249

Ion	Ratio	Lower	Upper
105	100		
120	31.3	25.0	37.6
91	9.9	7.8	11.6

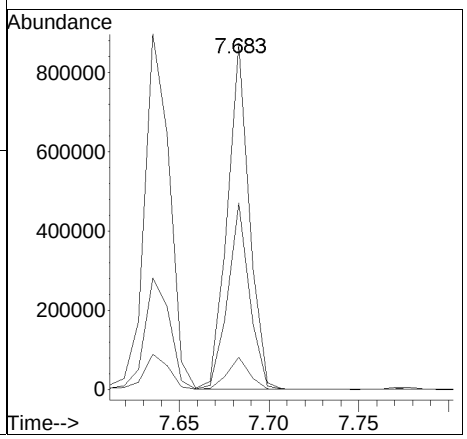


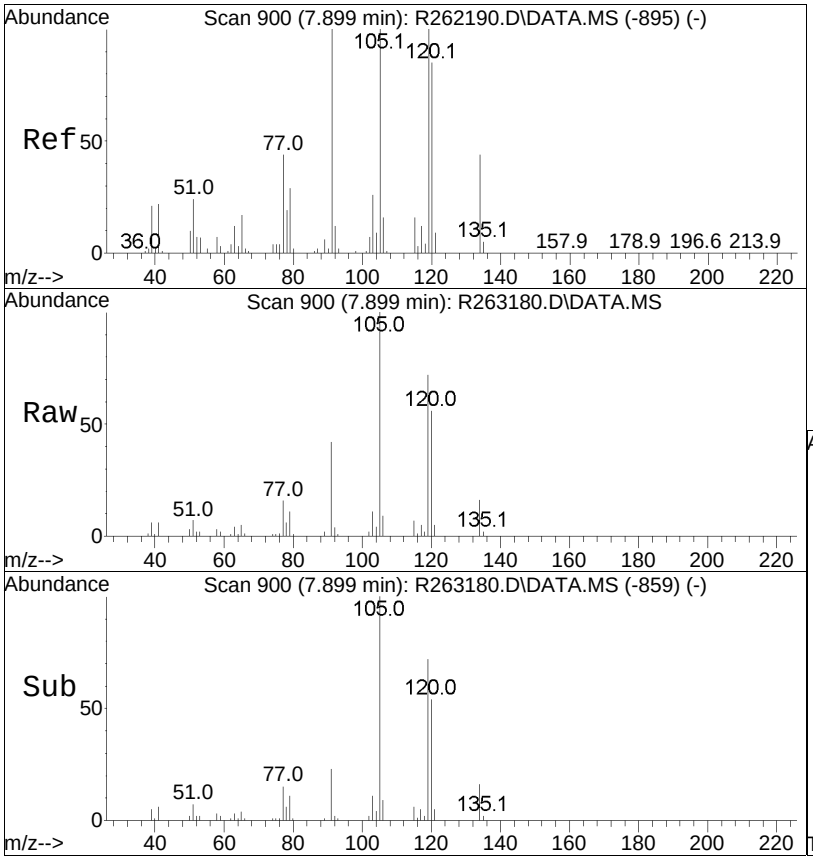


#97
1,3,5-trimethylbenzene
Concen: 11.15 ppbV
RT: 7.683 min Scan# 873
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:105 Resp: 744787

Ion	Ratio	Lower	Upper
105	100		
120	53.8	42.0	63.0
91	9.3	7.1	10.7

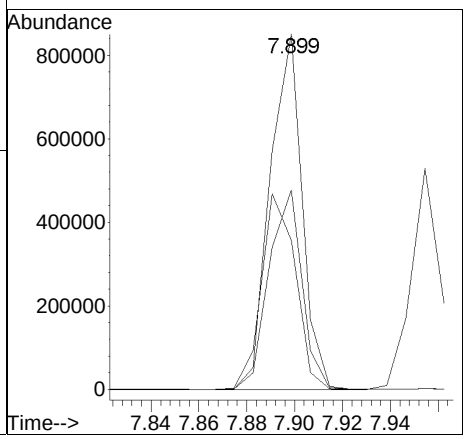


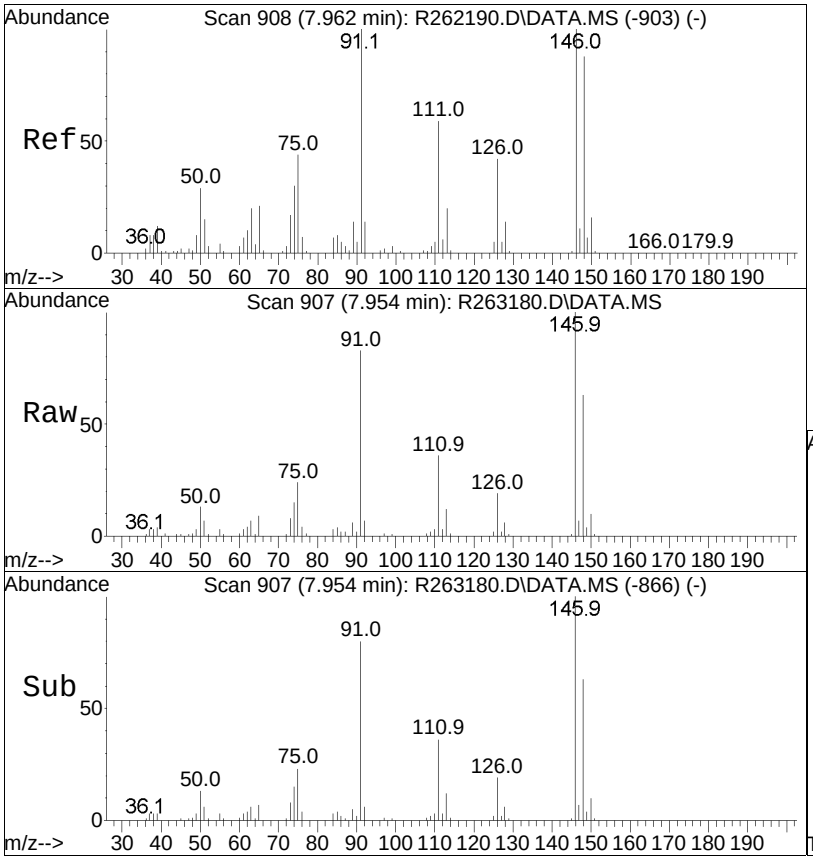


#99
1,2,4-trimethylbenzene
Concen: 11.63 ppbV
RT: 7.899 min Scan# 900
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:105 Resp: 791470

Ion	Ratio	Lower	Upper
105	100		
120	56.1	44.5	66.7
91	41.9	35.1	52.7

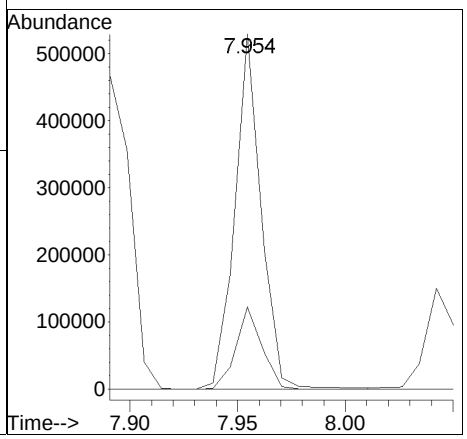


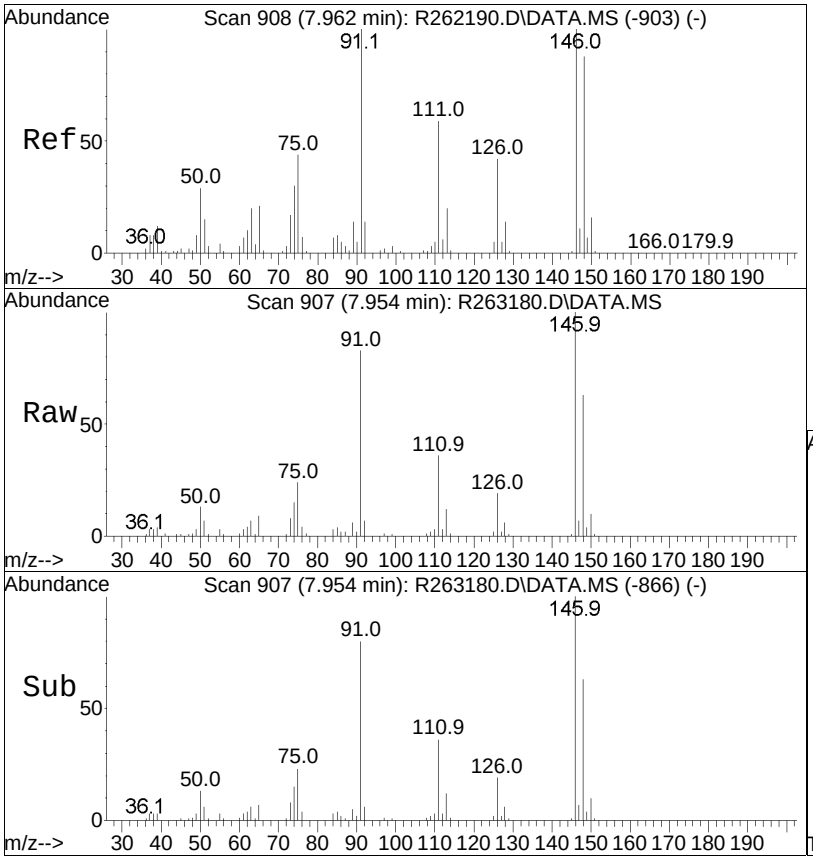


#101
Benzyl Chloride
Concen: 8.36 ppbV
RT: 7.954 min Scan# 907
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion: 91 Resp: 453027

Ion	Ratio	Lower	Upper
91	100		
126	23.2	19.1	28.7

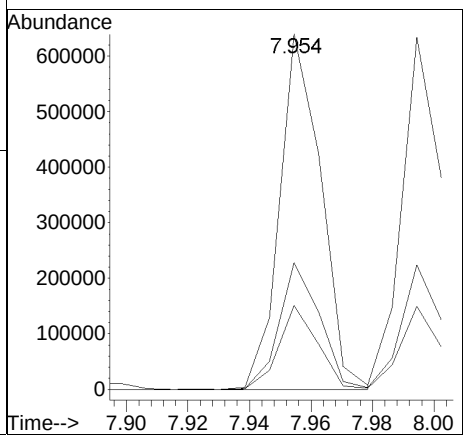


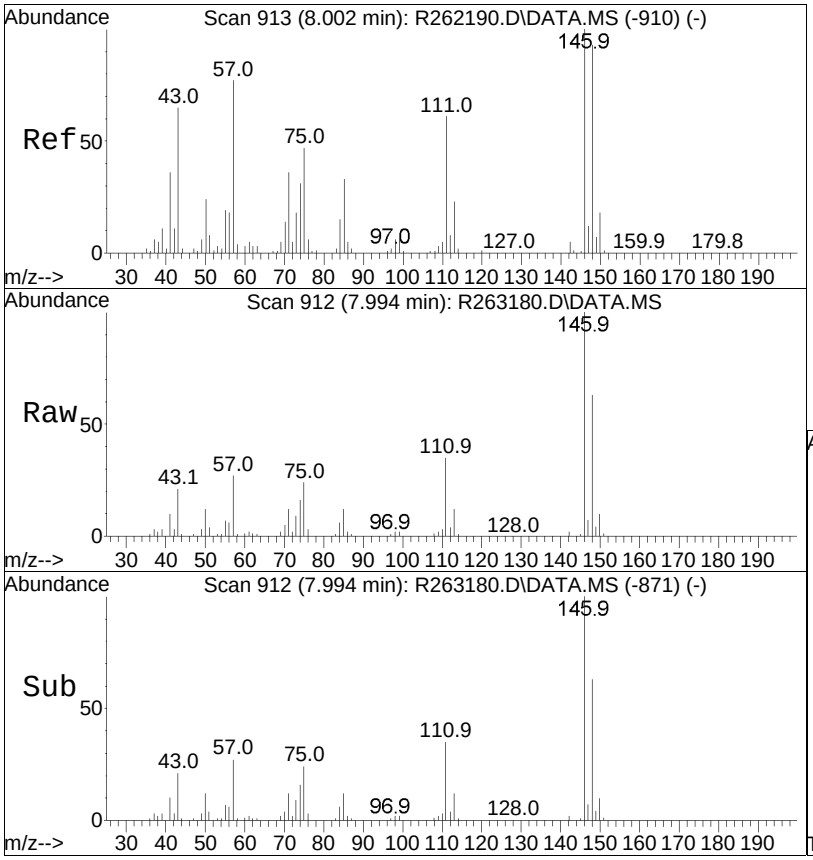


#102
1,3-dichlorobenzene
Concen: 11.95 ppbV
RT: 7.954 min Scan# 907
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:146 Resp: 596903

Ion	Ratio	Lower	Upper
146	100		
111	35.7	30.8	46.2
75	23.6	19.9	29.9

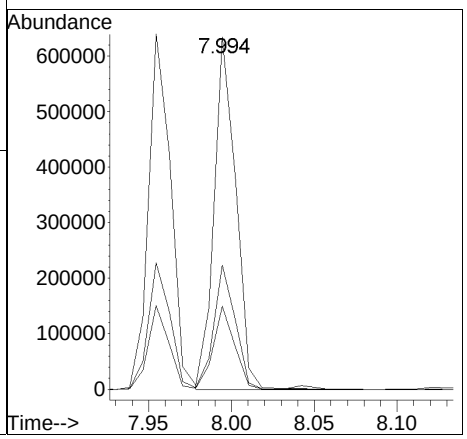


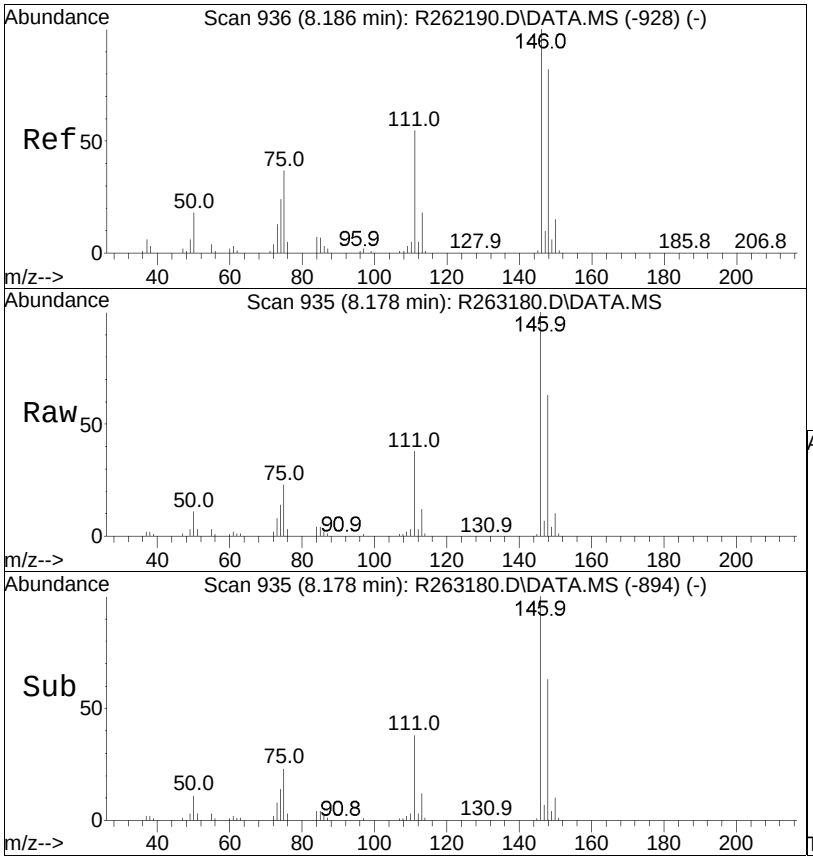


#103
1,4-dichlorobenzene
Concen: 11.50 ppbV
RT: 7.994 min Scan# 912
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:146 Resp: 579875

Ion	Ratio	Lower	Upper
146	100		
111	35.4	28.9	43.3
75	23.6	19.3	28.9

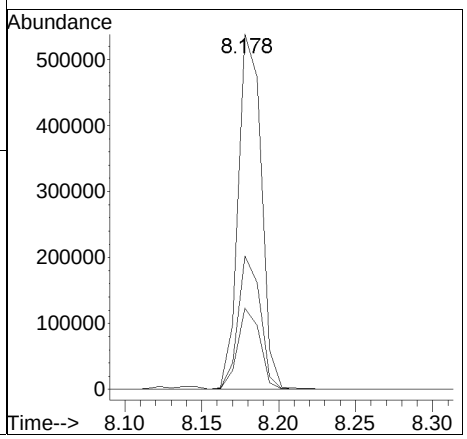


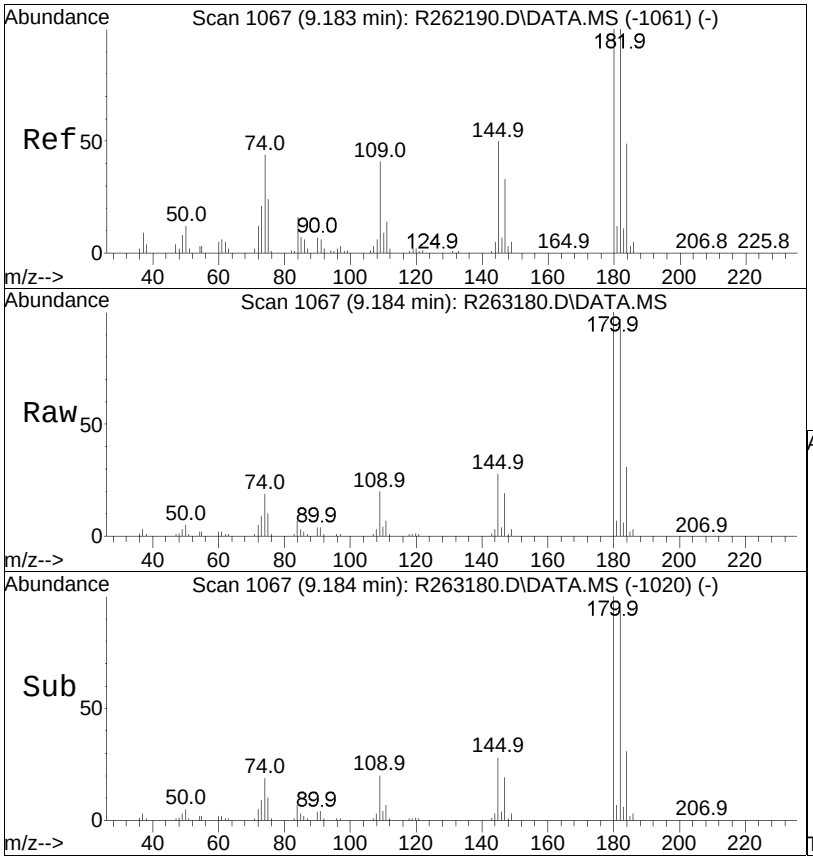


#107
1,2-dichlorobenzene
Concen: 11.55 ppbV
RT: 8.178 min Scan# 935
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:146 Resp: 565899

Ion	Ratio	Lower	Upper
146	100		
111	37.6	32.4	48.6
75	22.9	19.6	29.4

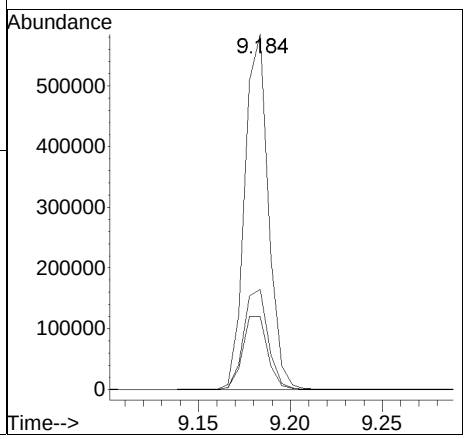


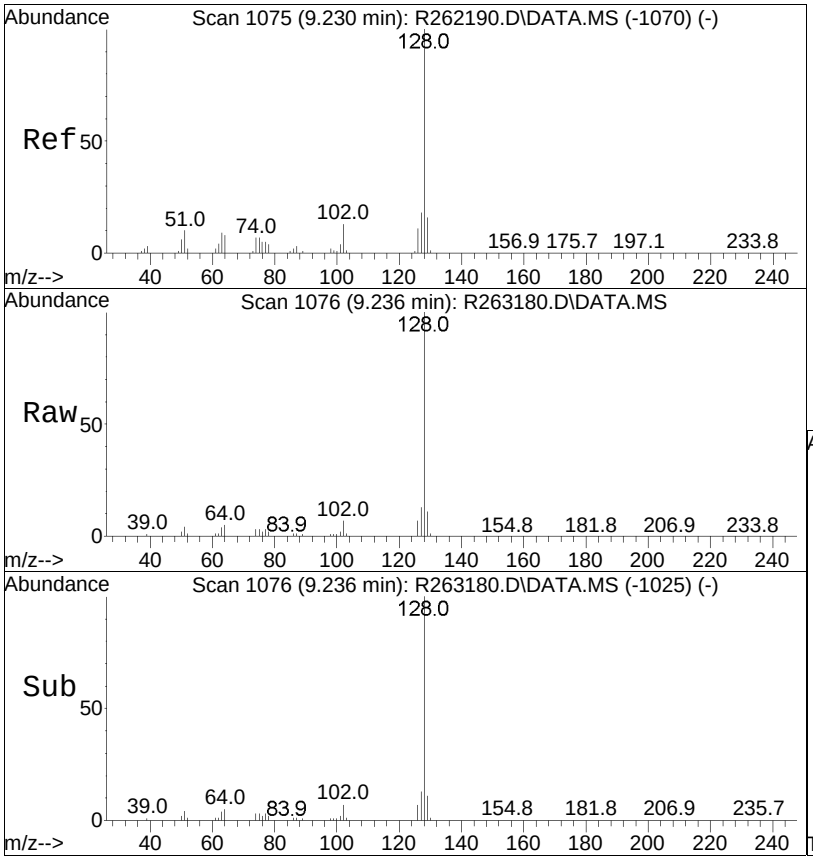


#115
1,2,4-trichlorobenzene
Concen: 11.03 ppbV
RT: 9.184 min Scan# 1067
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:180 Resp: 523709

Ion	Ratio	Lower	Upper
180	100		
145	28.1	21.9	32.9
109	20.4	15.4	23.2

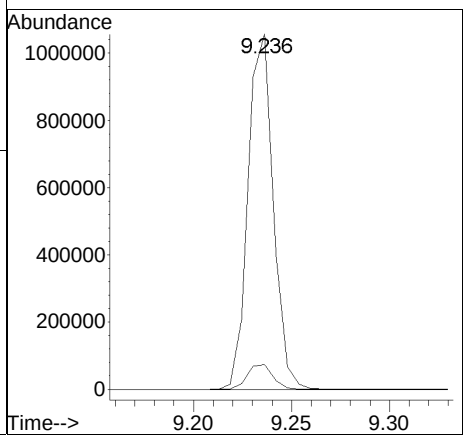


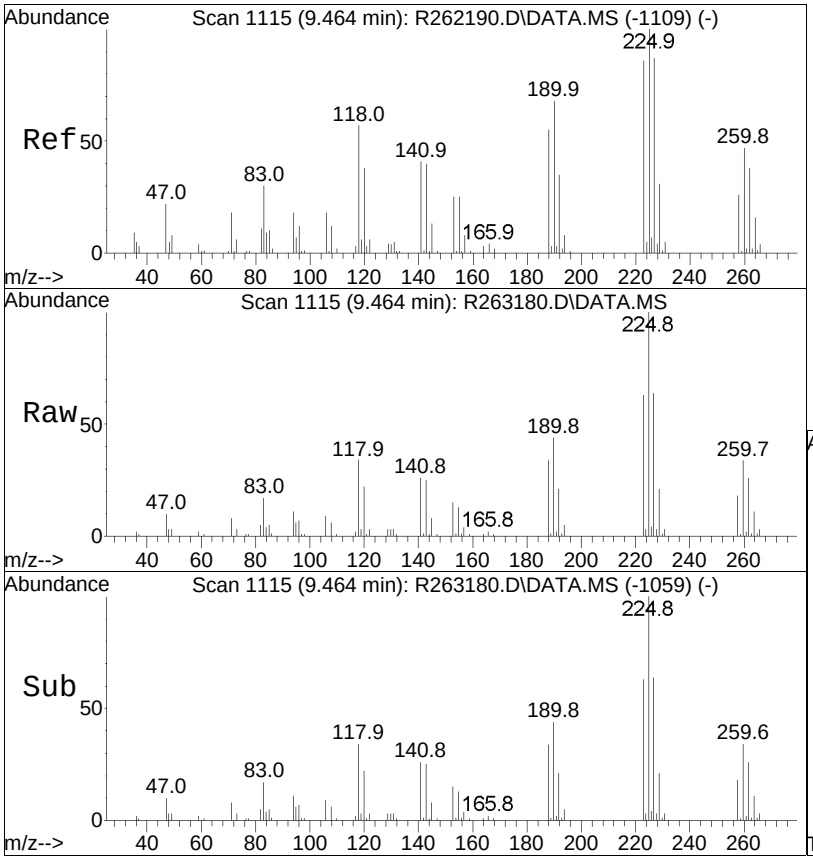


#116
naphthalene
Concen: 8.93 ppbV
RT: 9.236 min Scan# 1076
Delta R.T. 0.006 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:128 Resp: 948267

Ion	Ratio	Lower	Upper
128	100		
102	7.0	6.2	9.4

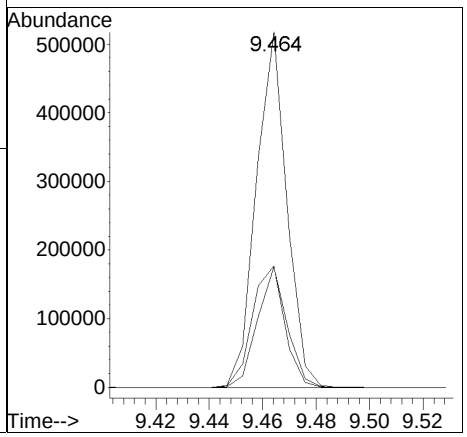




#119
hexachlorobutadiene
Concen: 10.44 ppbV
RT: 9.464 min Scan# 1115
Delta R.T. 0.000 min
Lab File: R263180.D
Acq: 22 Apr 2025 01:33 pm

Tgt Ion:225 Resp: 410897

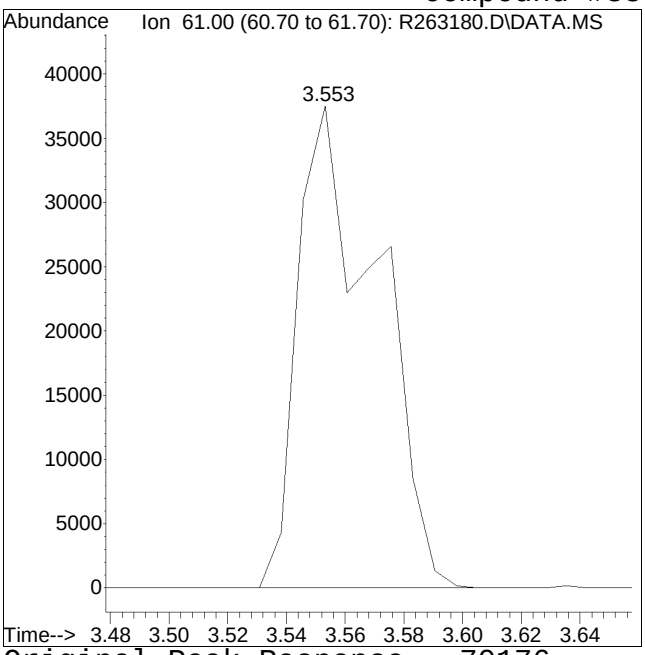
Ion	Ratio	Lower	Upper
225	100		
260	33.9	27.7	41.5
118	34.2	23.0	34.4



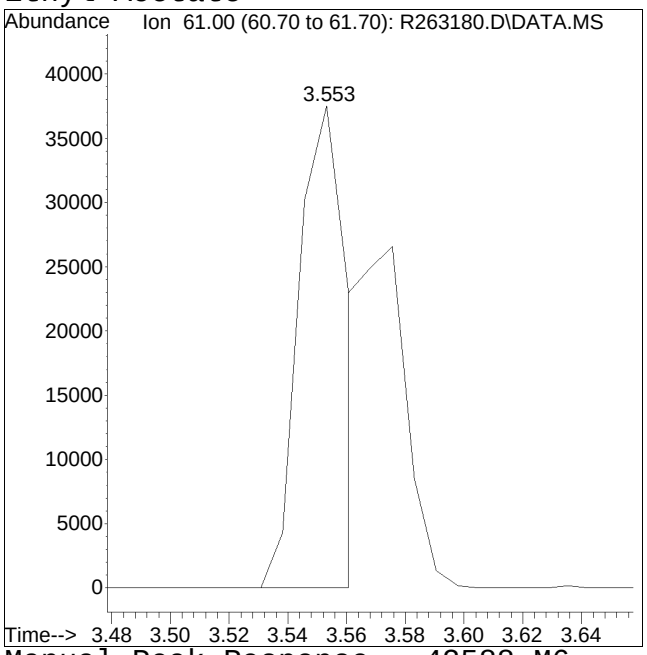
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-3,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #38: Ethyl Acetate



Original Peak Response = 70176



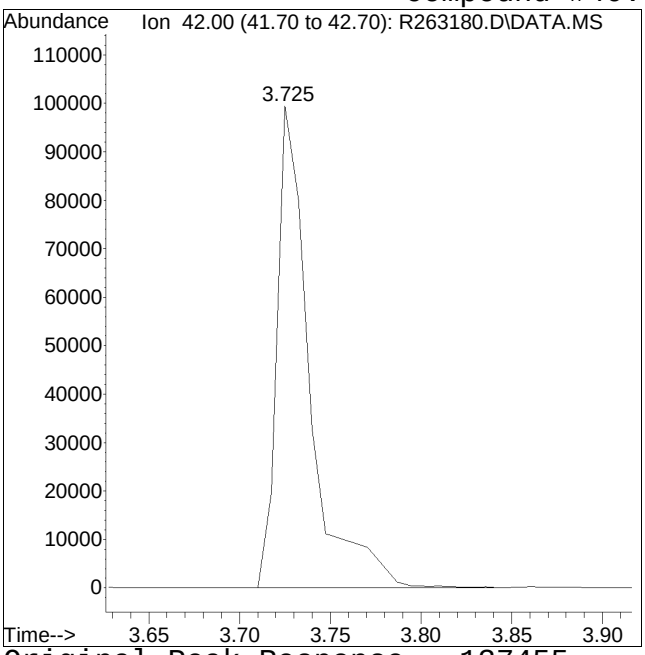
Manual Peak Response = 42588 M6

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

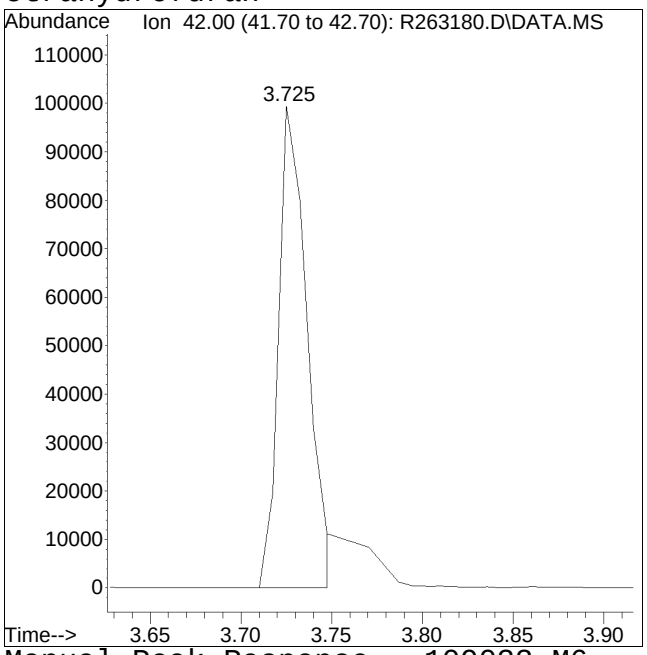
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263180.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 1:33 pm Instrument : Airlab26
Sample : WG2057225-3,3,250,250 Quant Date : 4/22/2025 2:32 pm

Compound #40: Tetrahydrofuran



Original Peak Response = 137455



Manual Peak Response = 109033 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\04\0422T\
Data File : R263196.D
Acq On : 23 Apr 2025 12:26 am
Operator : AIRLAB26:KJD
Sample : WG2057225-5,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 07:07:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.508	49	155102	10.000	ppbV	0.00
Standard Area = 158106			Recovery = 98.10%			
43) 1,4-difluorobenzene	4.365	114	644233	10.000	ppbV	0.00
Standard Area = 650619			Recovery = 99.02%			
67) chlorobenzene-D5	6.449	54	79309	10.000	ppbV	0.00
Standard Area = 77867			Recovery = 101.85%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	2.024	85	16139	0.481	ppbV	100
6) chloromethane	2.074	50	8150	0.820	ppbV	98
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.	d	
14) chloroethane	2.326	64	317	0.044	ppbV #	44
15) ethanol	2.365	31	238124	45.742	ppbV	96
17) vinyl bromide	0.000		0	N.D.		
19) acetone	2.505	43	104246M6	8.157	ppbV	
21) trichlorofluoromethane	2.556	101	7790	0.254	ppbV	95
22) isopropyl alcohol	2.573	45	47339	3.104	ppbV	100
27) tertiary butyl alcohol	2.746	59	2312	0.101	ppbV #	52
28) methylene chloride	2.760	49	2085	0.197	ppbV	79
29) 3-chloropropene	0.000		0	N.D.	d	
30) carbon disulfide	2.851	76	2742	0.084	ppbV #	1
31) Freon 113	2.846	101	2129	0.081	ppbV #	80
32) trans-1,2-dichloroethene	0.000		0	N.D.	d	
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.	d	
36) 2-butanone	3.288	43	9826	0.467	ppbV	97
38) Ethyl Acetate	3.560	61	454	0.097	ppbV #	25
39) chloroform	3.560	83	2150	0.076	ppbV #	86
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	3.868		0	N.D.		
44) hexane	3.546	57	6115	0.322	ppbV #	26
50) benzene	4.186	78	11266	0.255	ppbV	97
53) cyclohexane	4.309	56	1976	0.105	ppbV #	67
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.	d	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263196.D
Acq On : 23 Apr 2025 12:26 am
Operator : AIRLAB26:KJD
Sample : WG2057225-5,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 07:07:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422T\R263180.D
Sub List : TO15-NY-7-sim+Naphthalene - .

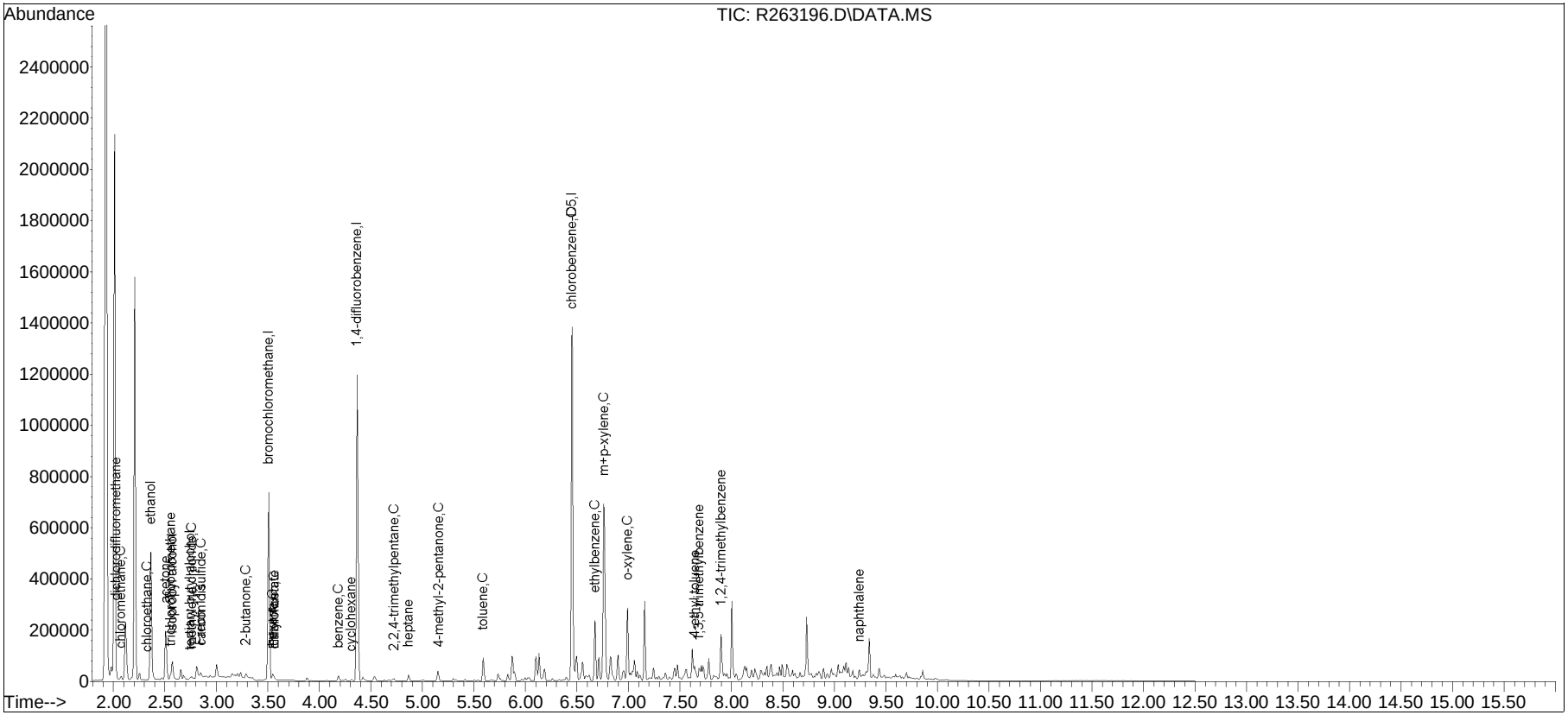
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	4.723	57	5131	0.089	ppbV #	90
62) heptane	4.865	43	5339	0.290	ppbV	94
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	5.158	43	1116	0.048	ppbV #	59
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	5.589	91	40871	0.711	ppbV	100
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	6.449	112	1919	0.040	ppbV #	1
81) ethylbenzene	6.673	91	98023	1.331	ppbV	99
83) m+p-xylene	6.760	91	313958	5.456	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	6.940		0	N.D.		
86) 1,1,2,2-tetrachloroethane	6.987		0	N.D.		
87) o-xylene	6.992	91	95910	1.693	ppbV	99
96) 4-ethyl toluene	7.643	105	13196M6	0.166	ppbV	
97) 1,3,5-trimethylbenzene	7.683	105	13537	0.199	ppbV	93
99) 1,2,4-trimethylbenzene	7.898	105	54691	0.789	ppbV #	69
101) Benzyl Chloride	0.000		0	N.D.	d	
102) 1,3-dichlorobenzene	0.000		0	N.D.	d	
103) 1,4-dichlorobenzene	0.000		0	N.D.	d	
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.	d	
116) naphthalene	9.242	128	8278M6	0.077	ppbV	
119) hexachlorobutadiene	0.000		0	N.D.		

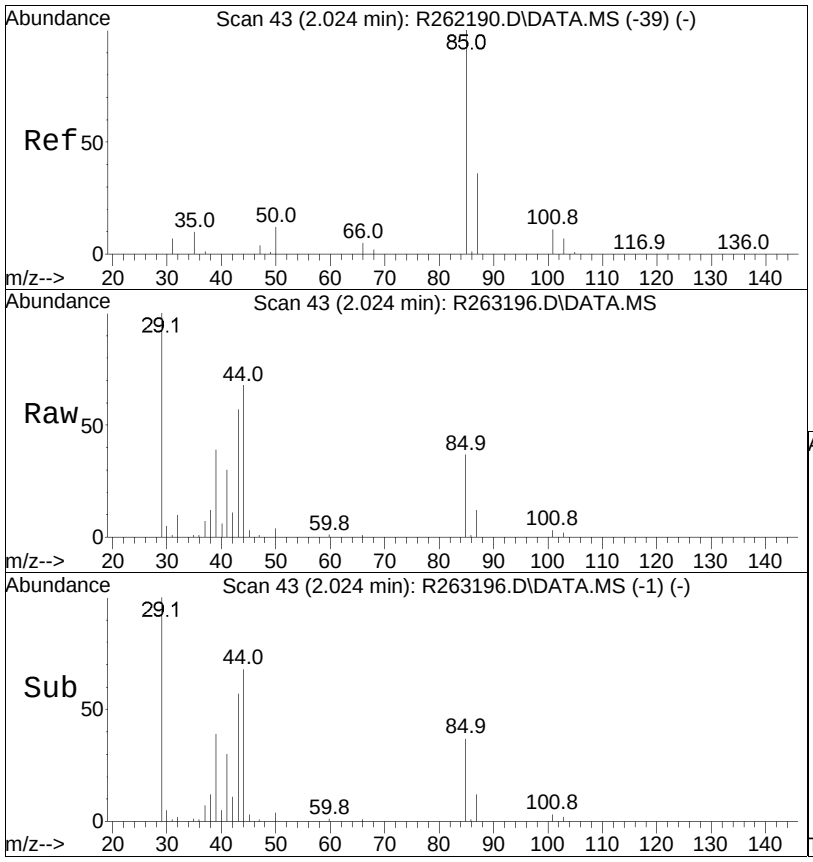
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-sim+Naphthalene - .04\0422T\R263180.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422T\
Data File : R263196.D
Acq On : 23 Apr 2025 12:26 am
Operator : AIRLAB26:KJD
Sample : WG2057225-5,3,250,250
Misc : WG2057225,ICAL22173
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 07:07:12 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422T\TFS26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:02:11 2025
Response via : Initial Calibration

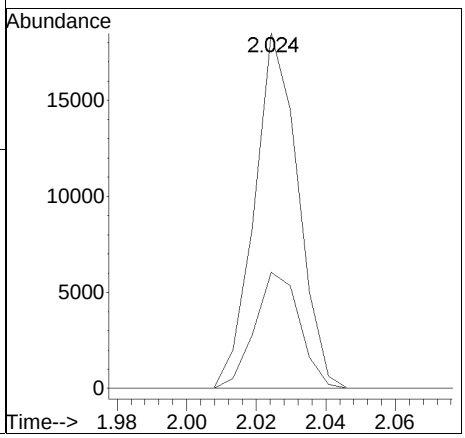


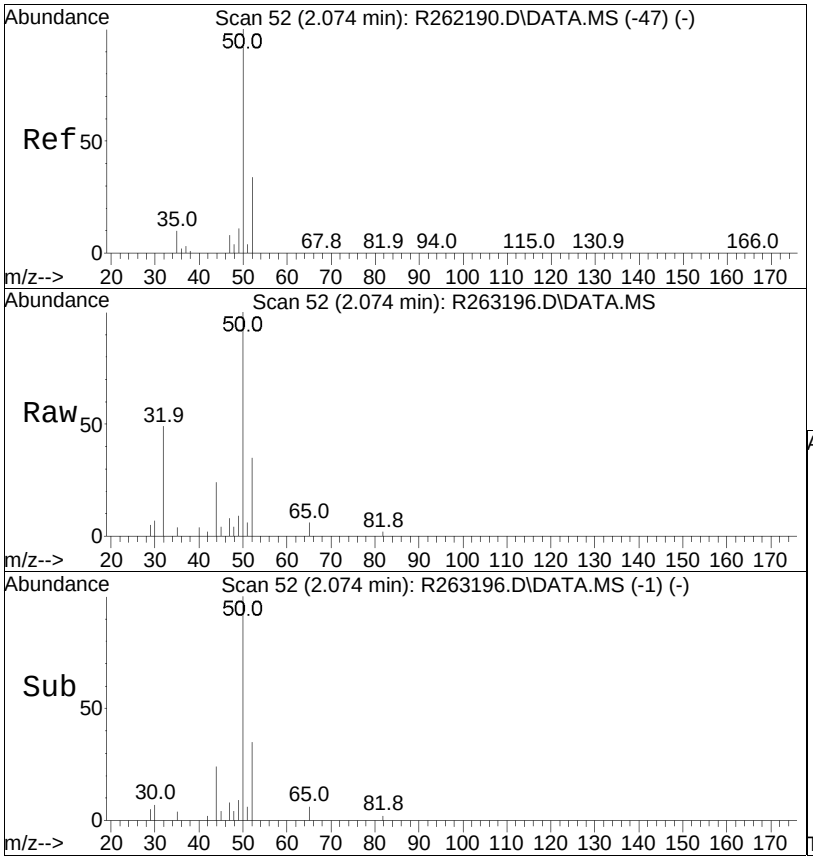


#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 2.024 min Scan# 43
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 85 Resp: 16139

Ion	Ratio	Lower	Upper
85	100		
87	32.7	26.0	39.0

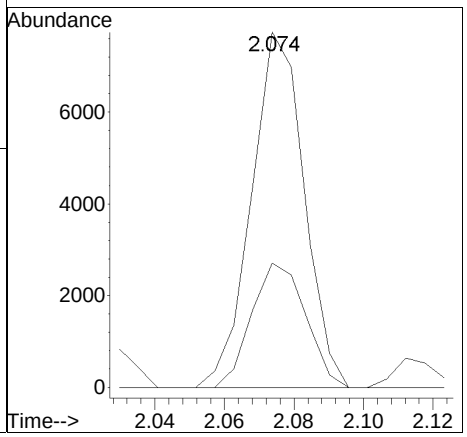


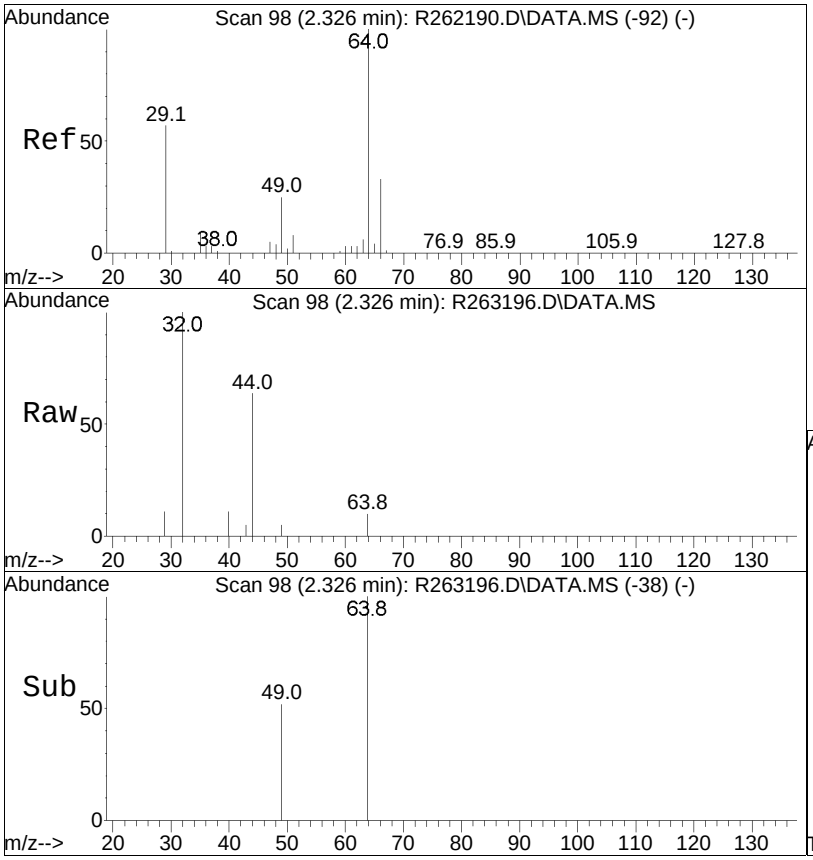


#6
chloromethane
Concen: 0.82 ppbV
RT: 2.074 min Scan# 52
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 50 Resp: 8150

Ion	Ratio	Lower	Upper
50	100		
52	35.0	27.1	40.7

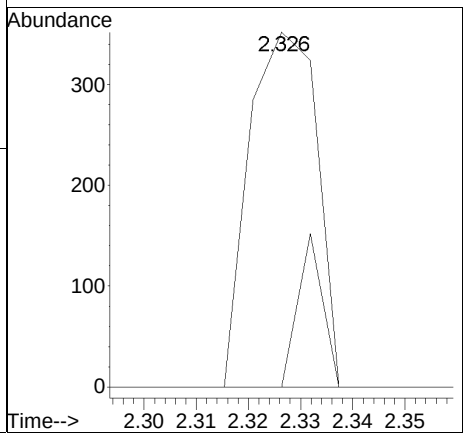


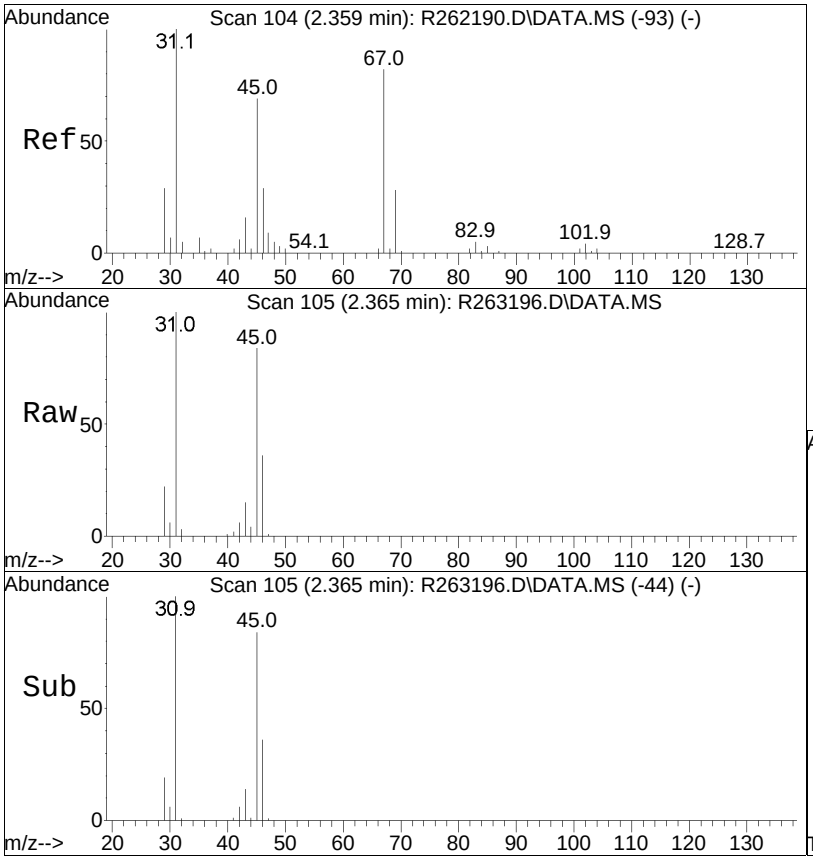


#14
chloroethane
Concen: 0.04 ppbV
RT: 2.326 min Scan# 98
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 64 Resp: 317

Ion	Ratio	Lower	Upper
64	100		
66	0.0	24.3	36.5#

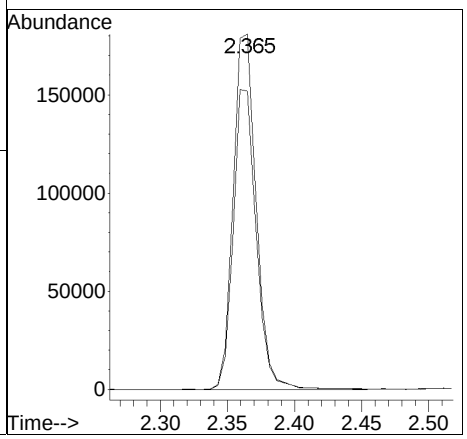


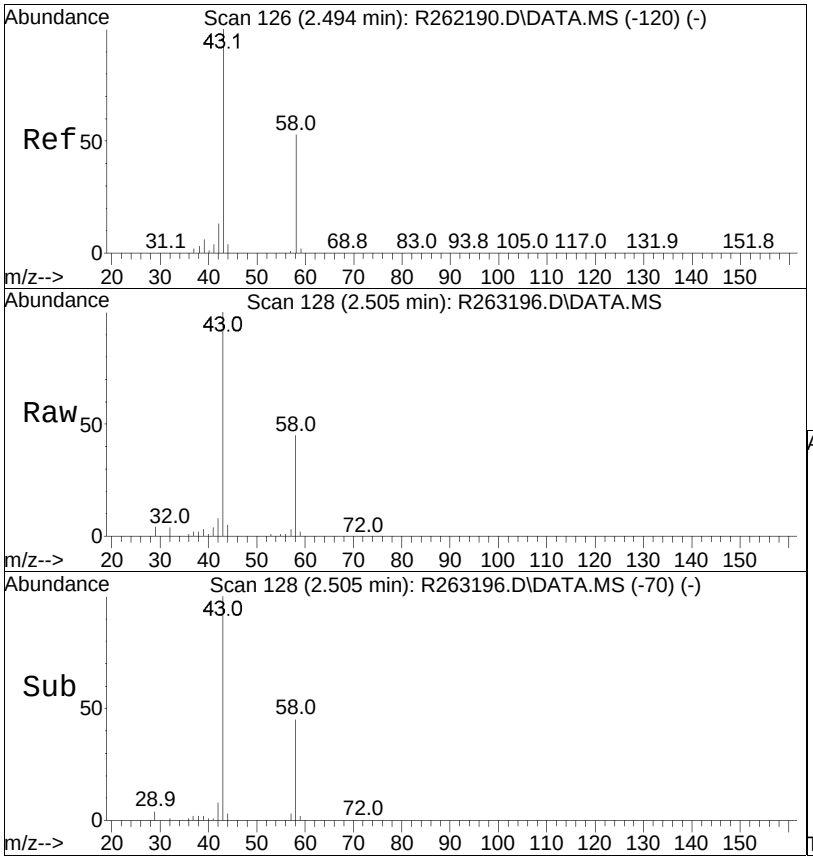


#15
ethanol
Concen: 45.74 ppbV
RT: 2.365 min Scan# 105
Delta R.T. 0.005 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 31 Resp: 238124

Ion	Ratio	Lower	Upper
31	100		
45	83.9	64.3	96.5

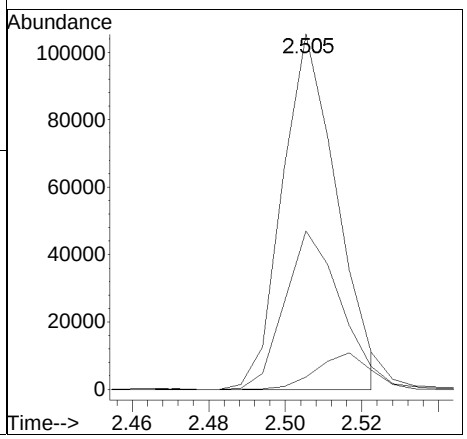


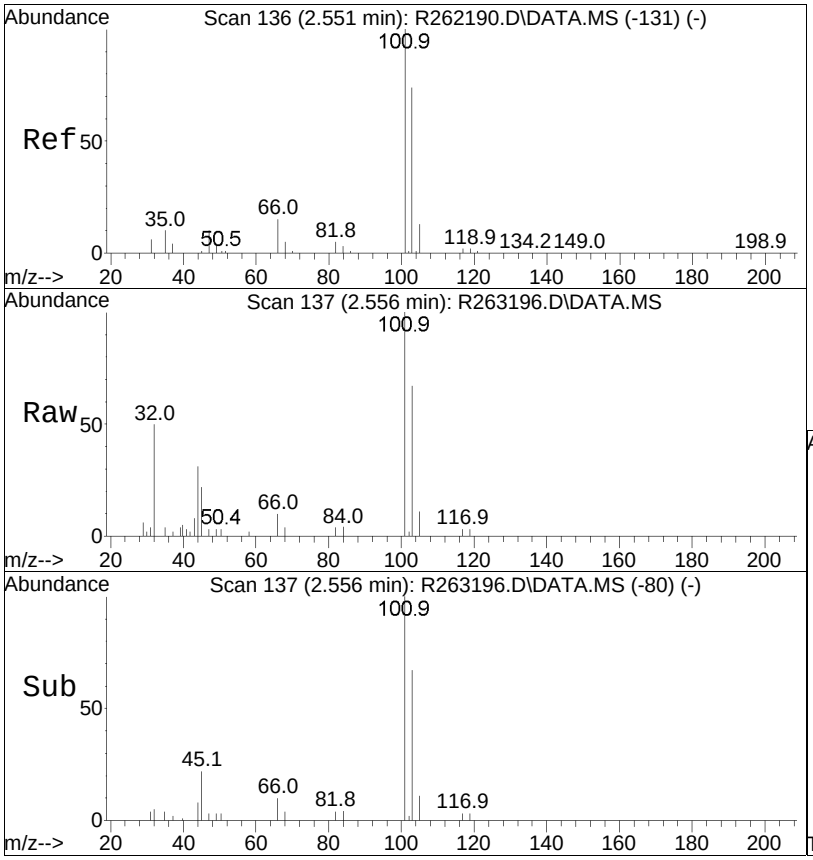


#19
acetone
Concen: 8.16 ppbV m
RT: 2.505 min Scan# 128
Delta R.T. 0.006 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 43 Resp: 104246

Ion	Ratio	Lower	Upper
43	100		
58	44.6	32.9	49.3
57	3.5	1.0	1.4#

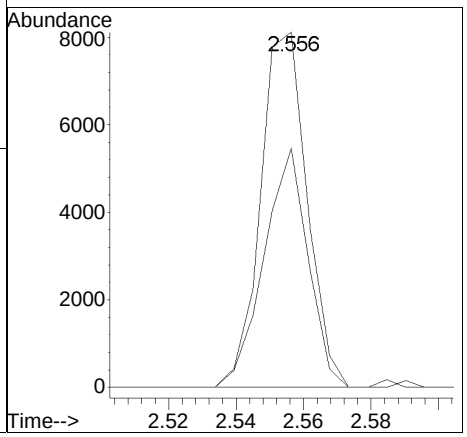


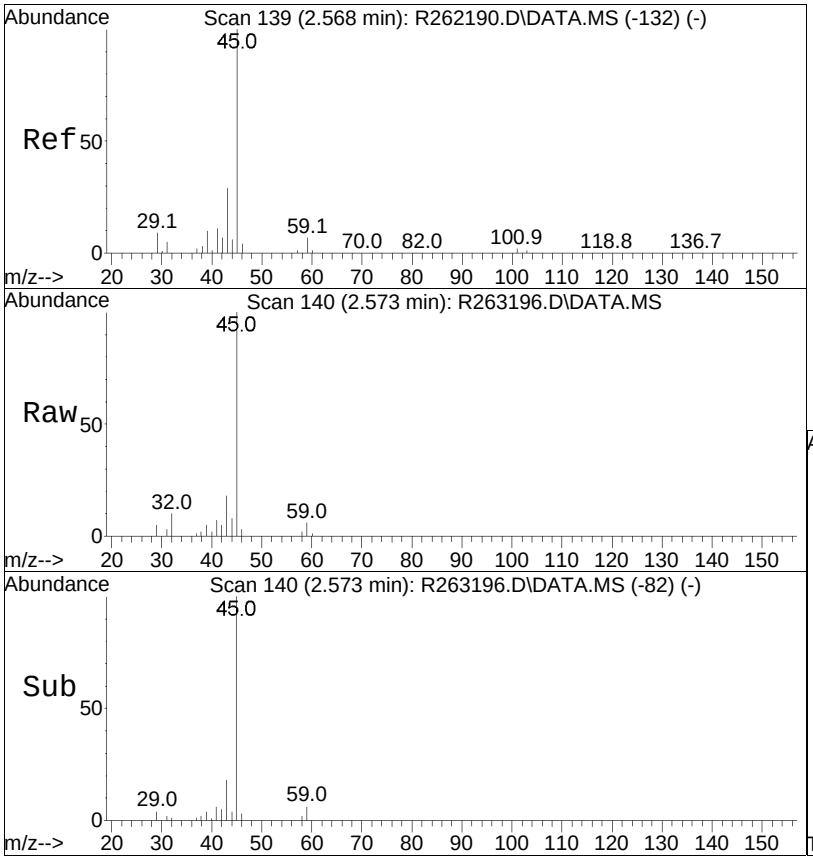


#21
trichlorofluoromethane
Concen: 0.25 ppbV
RT: 2.556 min Scan# 137
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:101 Resp: 7790

Ion	Ratio	Lower	Upper
101	100		
103	67.3	50.9	76.3

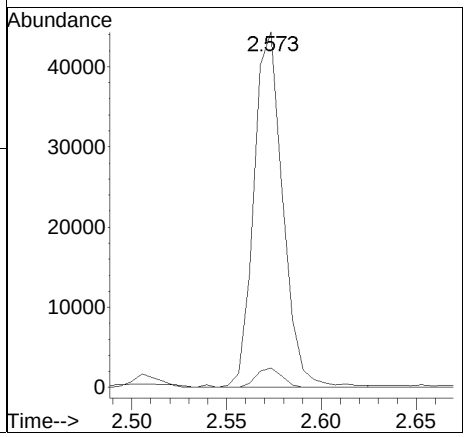


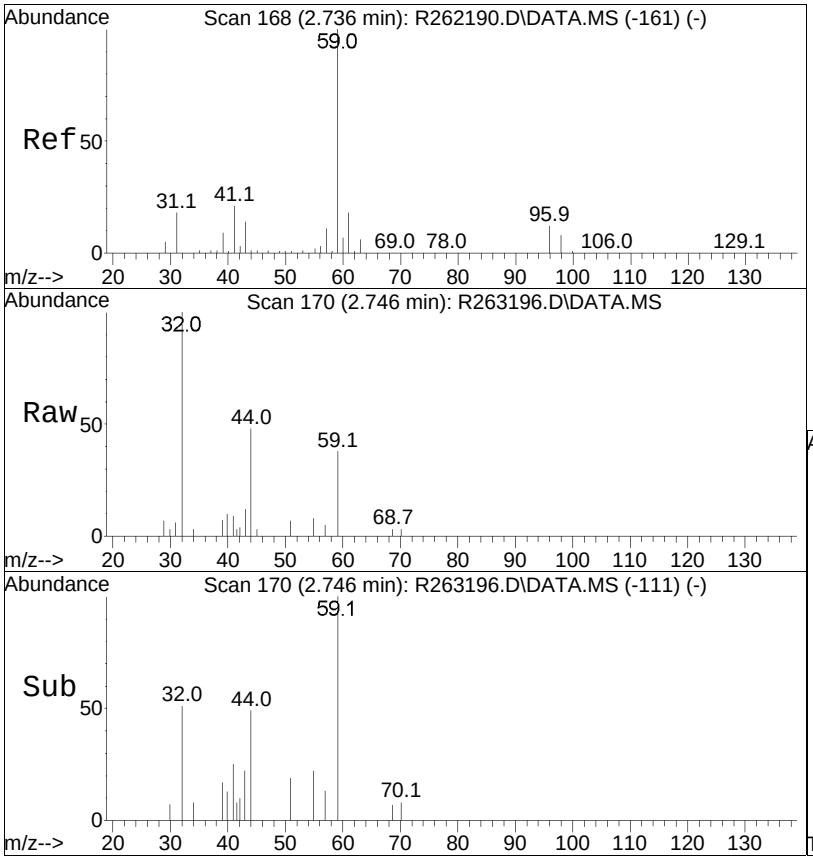


#22
isopropyl alcohol
Concen: 3.10 ppbV
RT: 2.573 min Scan# 140
Delta R.T. 0.006 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 45 Resp: 47339

Ion	Ratio	Lower	Upper
45	100		
59	5.5	4.4	6.6

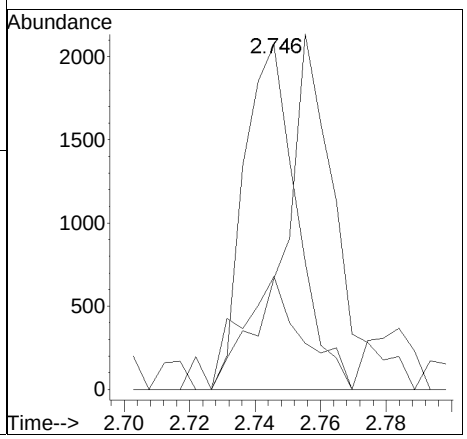


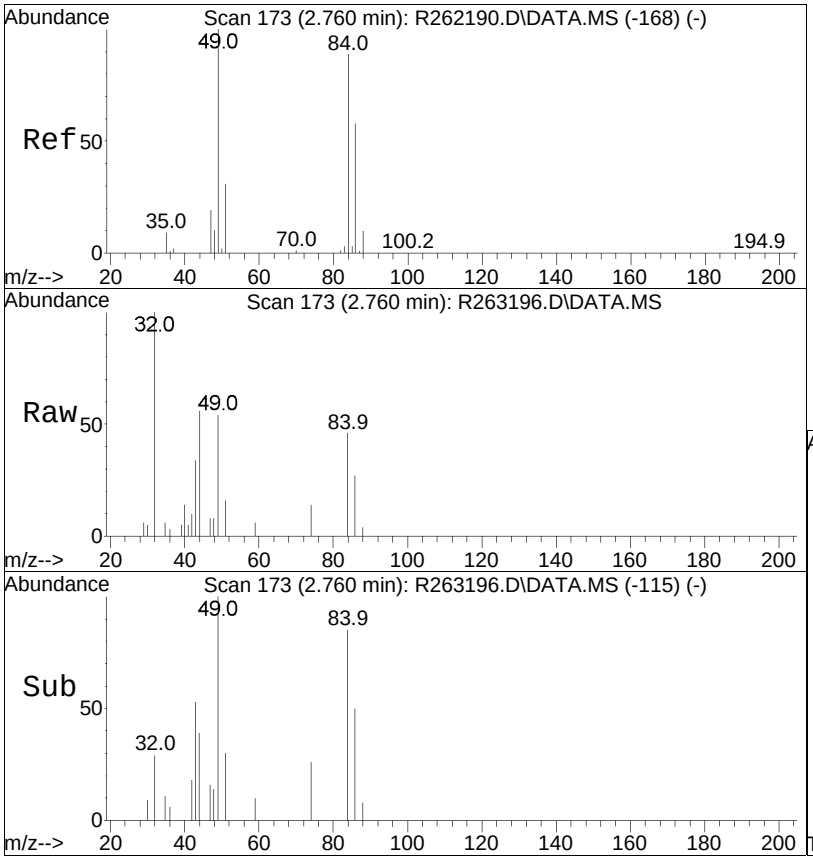


#27
tertiary butyl alcohol
Concen: 0.10 ppbV
RT: 2.746 min Scan# 170
Delta R.T. 0.009 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 59 Resp: 2312

Ion	Ratio	Lower	Upper
59	100		
41	32.7	12.3	18.5#
43	32.3	8.6	12.8#

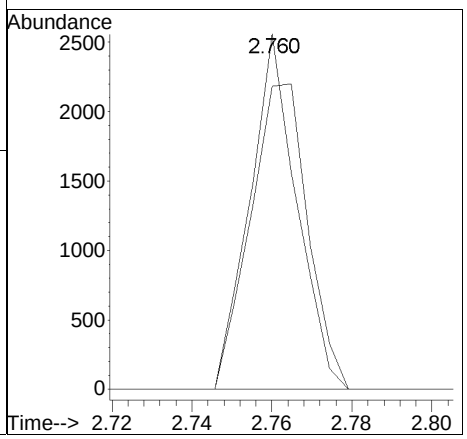


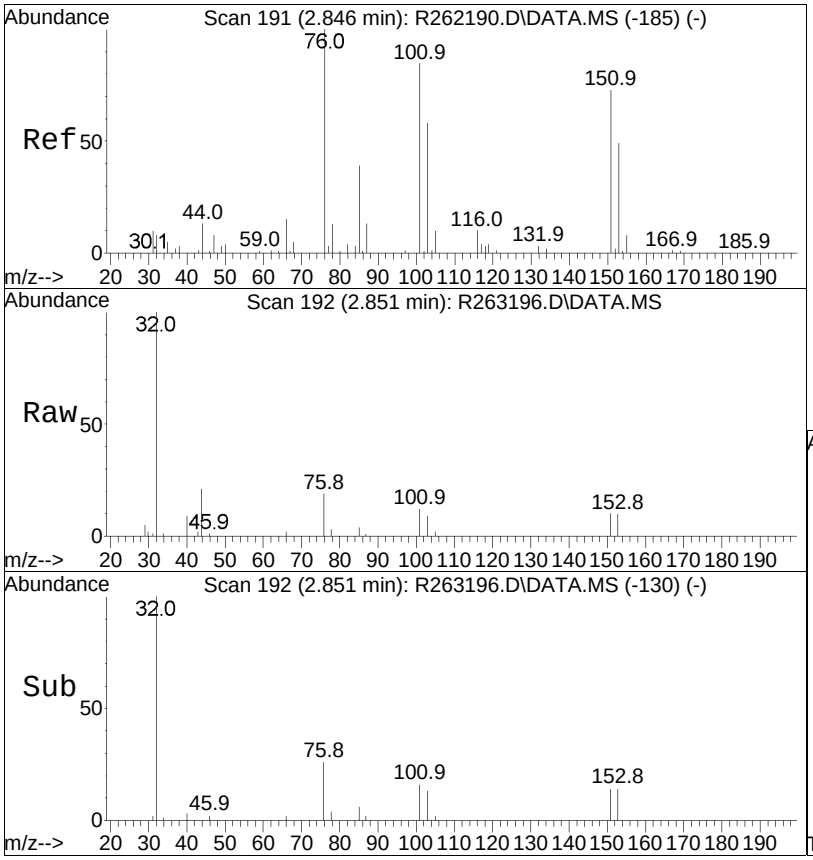


#28
methylene chloride
Concen: 0.20 ppbV
RT: 2.760 min Scan# 173
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 49 Resp: 2085

Ion	Ratio	Lower	Upper
49	100		
84	85.3	85.3	127.9

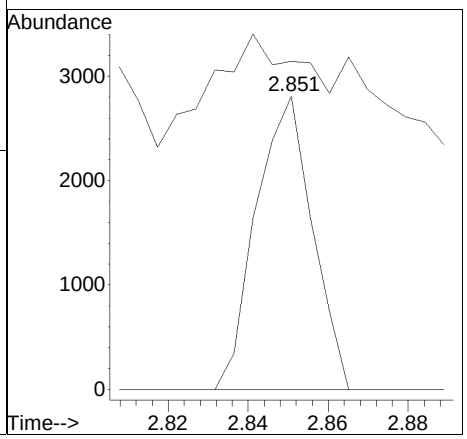


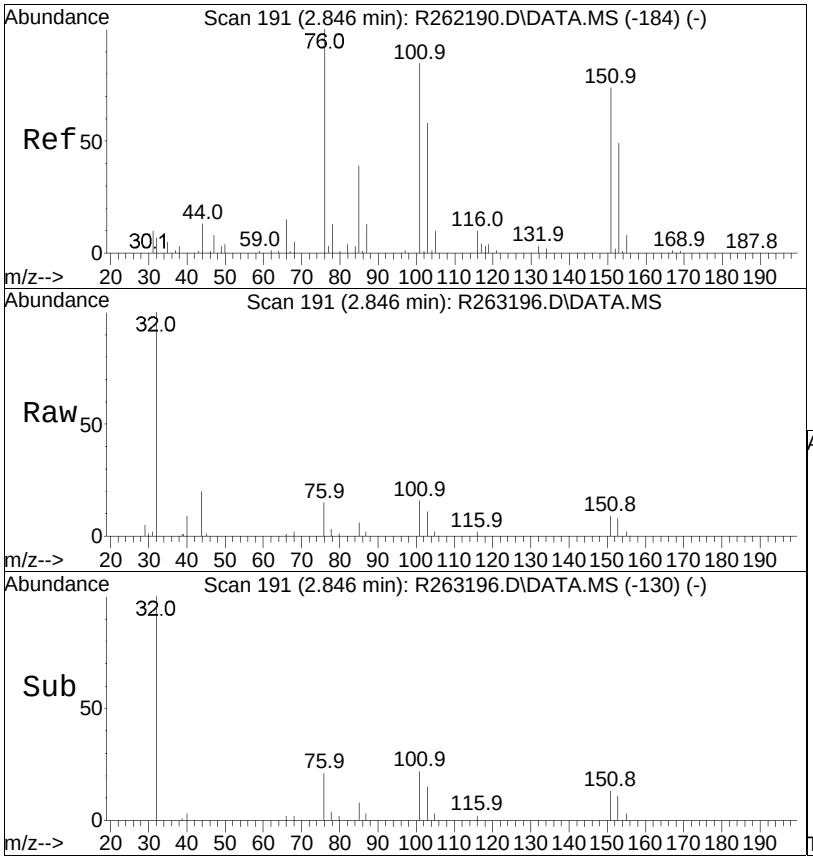


#30
carbon disulfide
Concen: 0.08 ppbV
RT: 2.851 min Scan# 192
Delta R.T. 0.005 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 76 Resp: 2742

Ion	Ratio	Lower	Upper
76	100		
44	111.9	7.5	11.3#

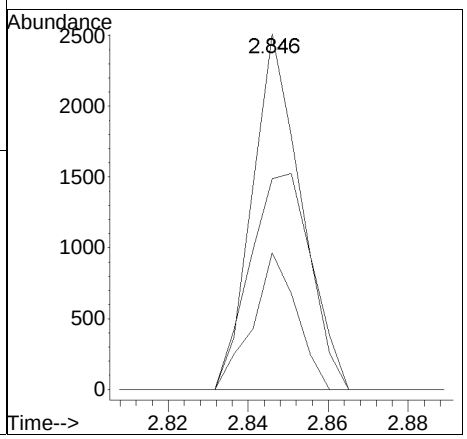


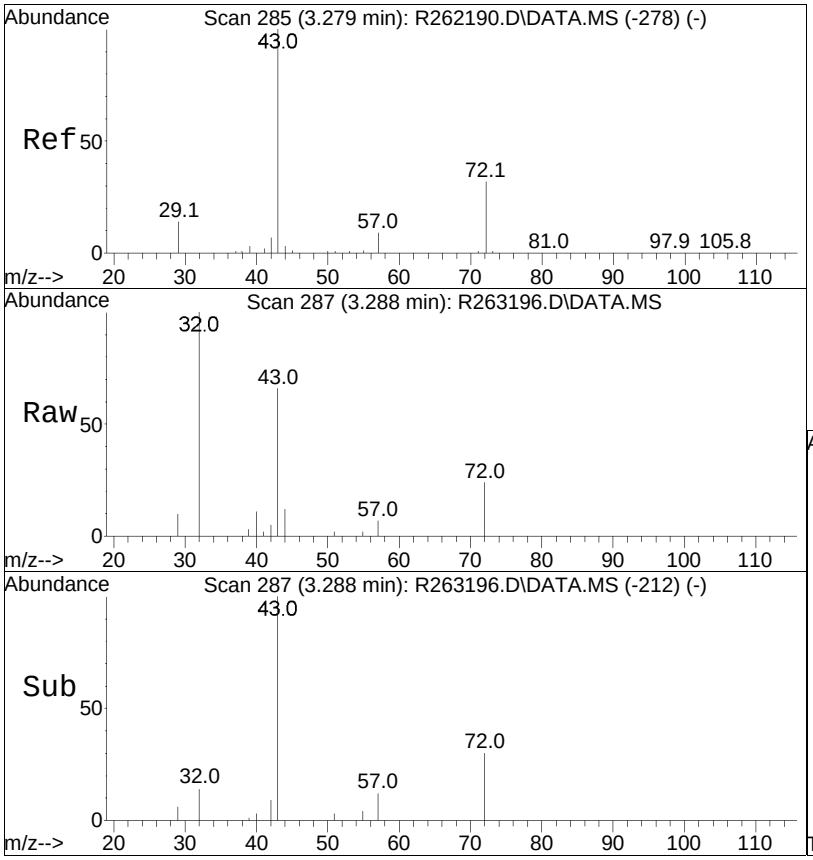


#31
Freon 113
Concen: 0.08 ppbV
RT: 2.846 min Scan# 191
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:101 Resp: 2129

Ion	Ratio	Lower	Upper
101	100		
85	38.4	29.9	44.9
151	59.3	67.5	101.3#

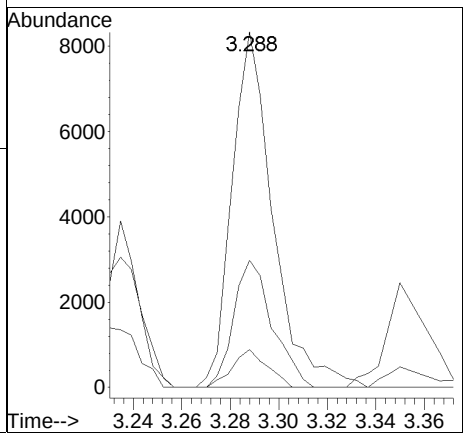


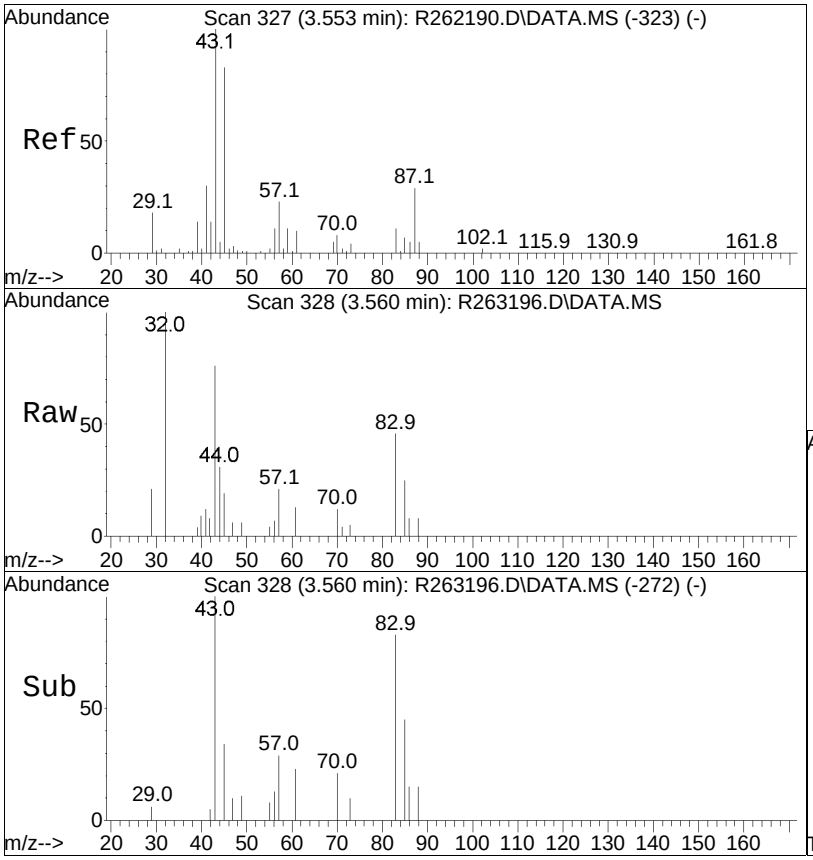


#36
2-butanone
Concen: 0.47 ppbV
RT: 3.288 min Scan# 287
Delta R.T. 0.009 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 43 Resp: 9826

Ion	Ratio	Lower	Upper
43	100		
72	35.8	27.1	40.7
57	10.7	7.4	11.2

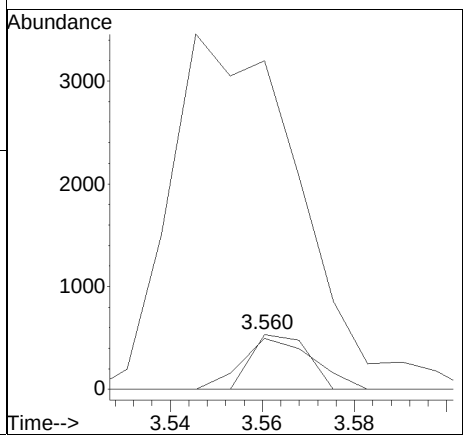


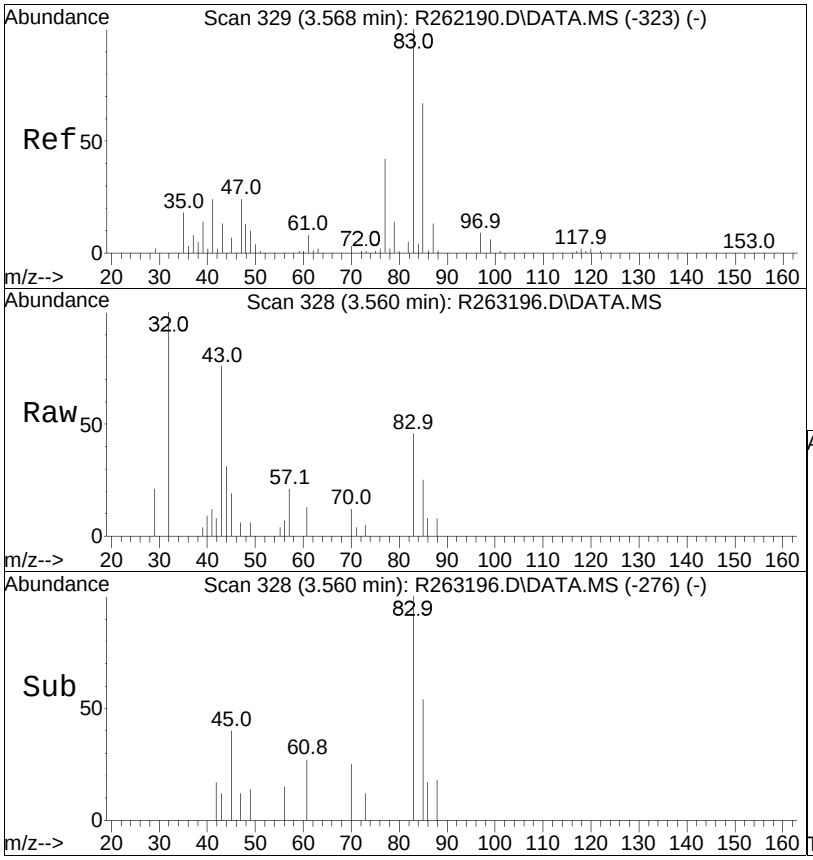


#38
Ethyl Acetate
Concen: 0.10 ppbV
RT: 3.560 min Scan# 328
Delta R.T. 0.007 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 61 Resp: 454

Ion	Ratio	Lower	Upper
61	100		
70	93.1	70.6	105.8
43	600.0	760.4	1140.6#

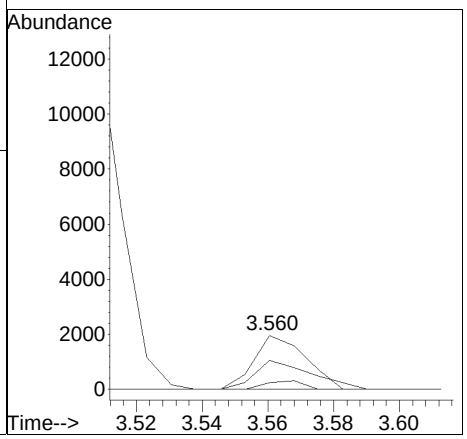


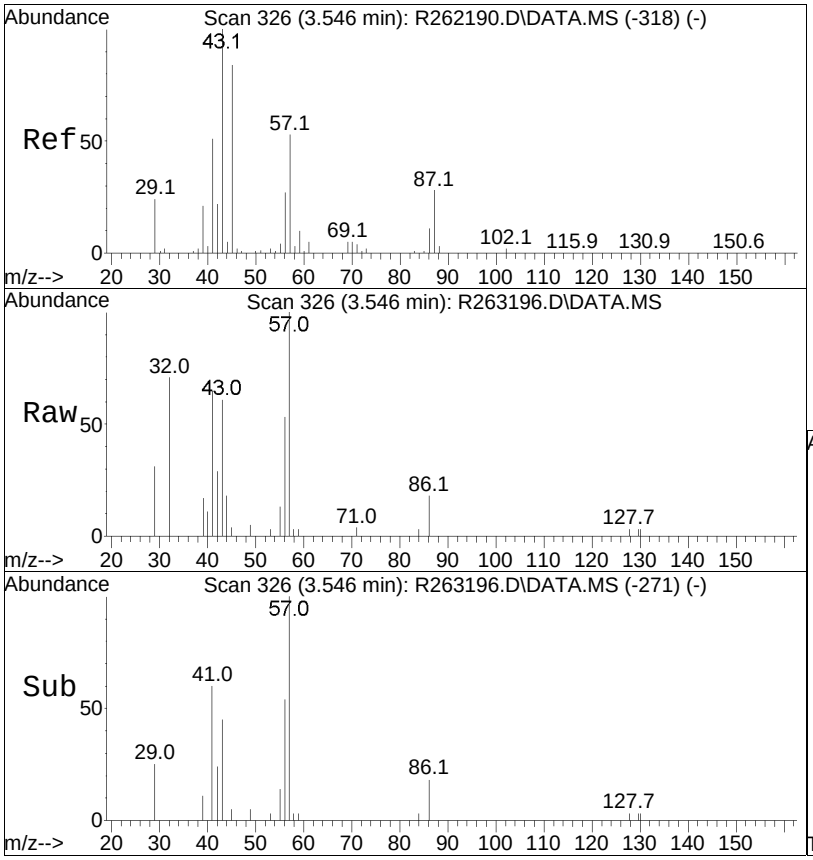


#39
chloroform
Concen: 0.08 ppbV
RT: 3.560 min Scan# 328
Delta R.T. -0.008 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 83 Resp: 2150

Ion	Ratio	Lower	Upper
83	100		
85	53.8	52.6	78.8
47	12.5	14.1	21.1#

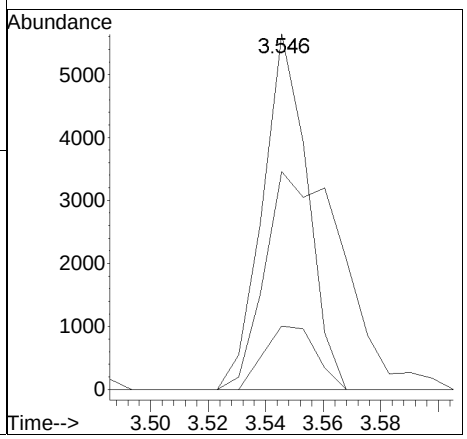


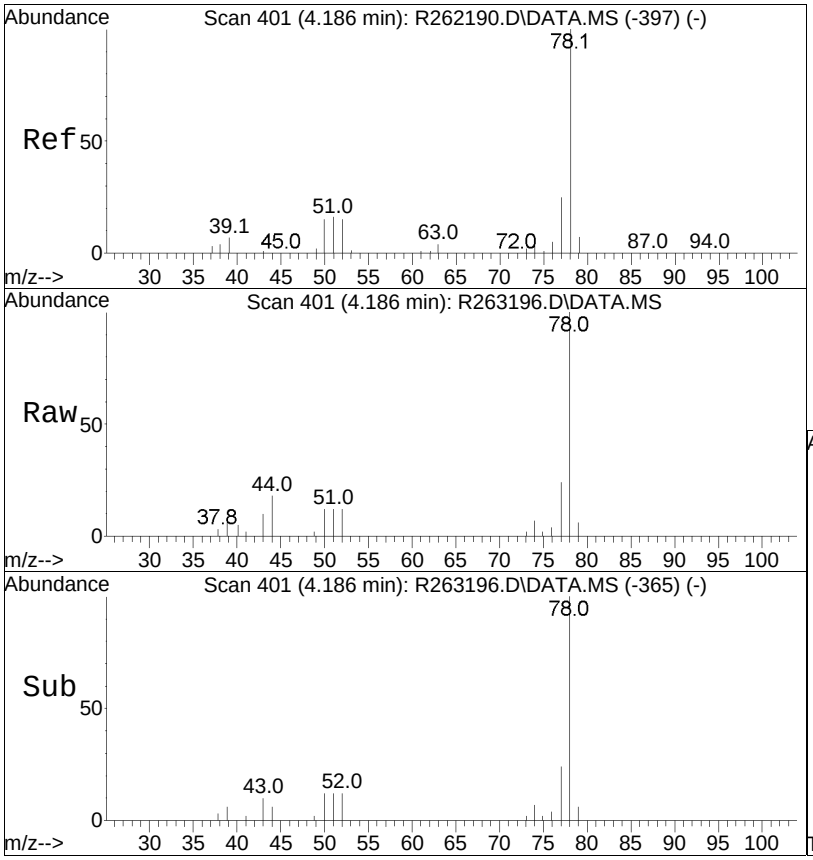


#44
hexane
Concen: 0.32 ppbV
RT: 3.546 min Scan# 326
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 57 Resp: 6115

Ion	Ratio	Lower	Upper
57	100		
43	61.3	140.7	211.1#
86	17.8	16.7	25.1

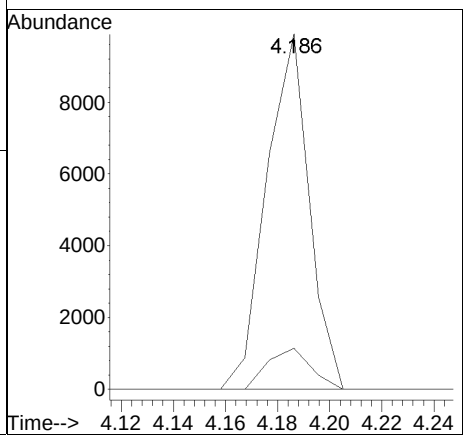


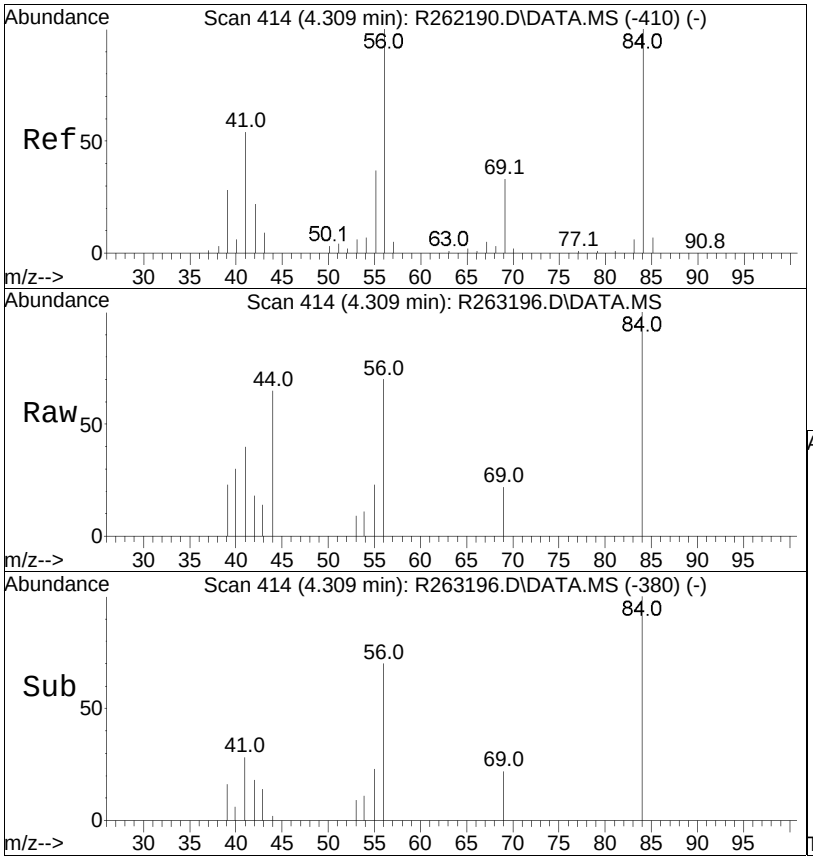


#50
benzene
Concen: 0.26 ppbV
RT: 4.186 min Scan# 401
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 78 Resp: 11266

Ion	Ratio	Lower	Upper
78	100		
52	11.6	10.3	15.5

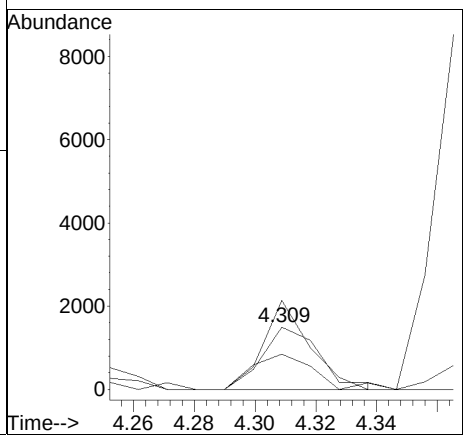


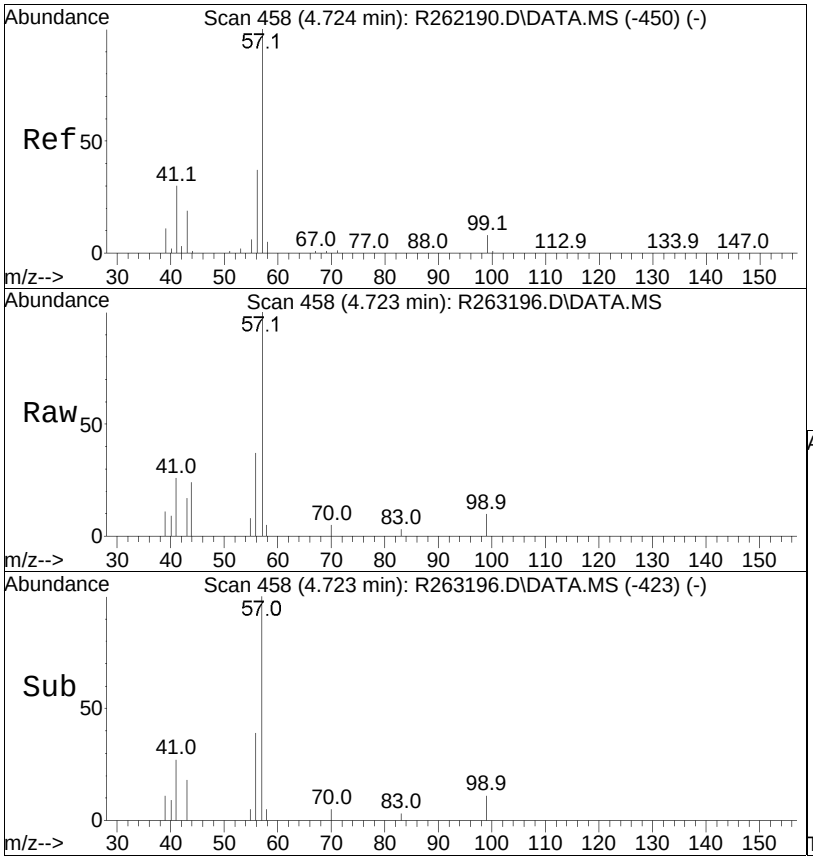


#53
cyclohexane
Concen: 0.10 ppbV
RT: 4.309 min Scan# 414
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 56 Resp: 1976

Ion	Ratio	Lower	Upper
56	100		
84	142.8	82.0	123.0#
41	56.6	35.6	53.4#

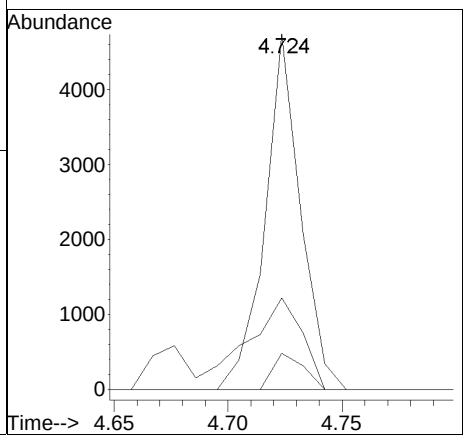


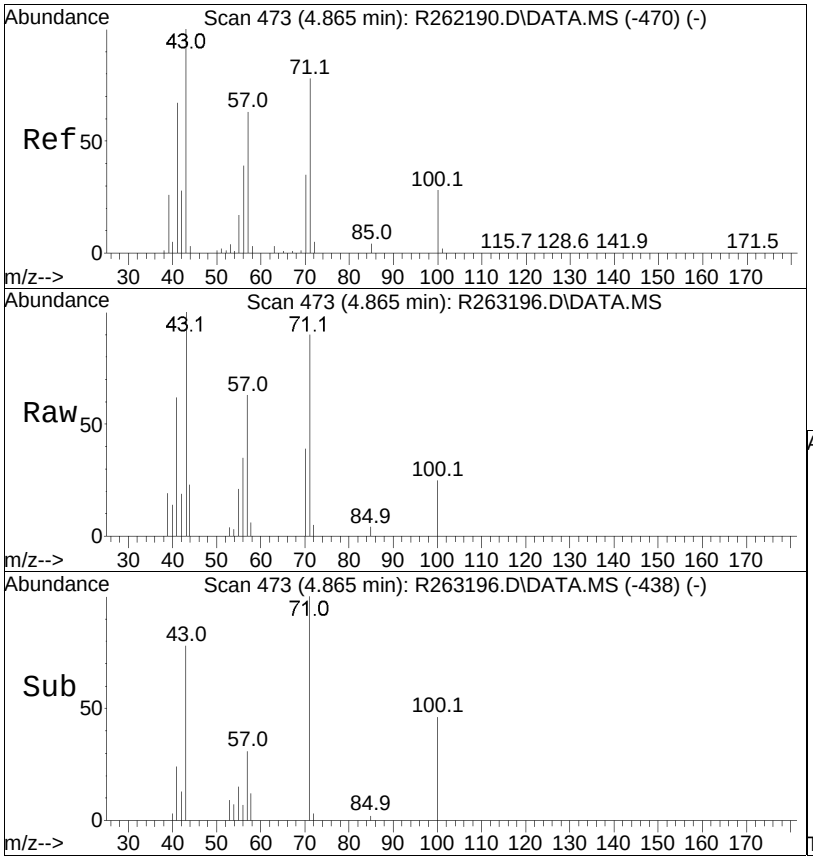


#60
2,2,4-trimethylpentane
Concen: 0.09 ppbV
RT: 4.723 min Scan# 458
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 57 Resp: 5131

Ion	Ratio	Lower	Upper
57	100		
99	10.2	6.0	9.0#
41	25.7	16.3	24.5#

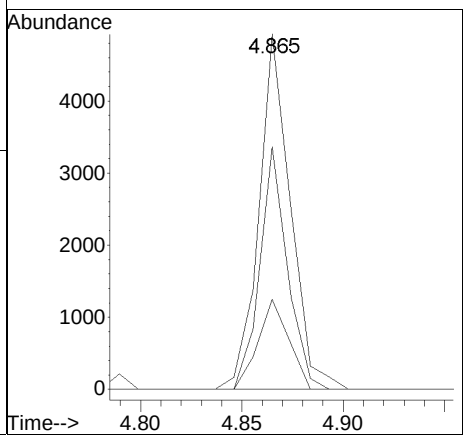


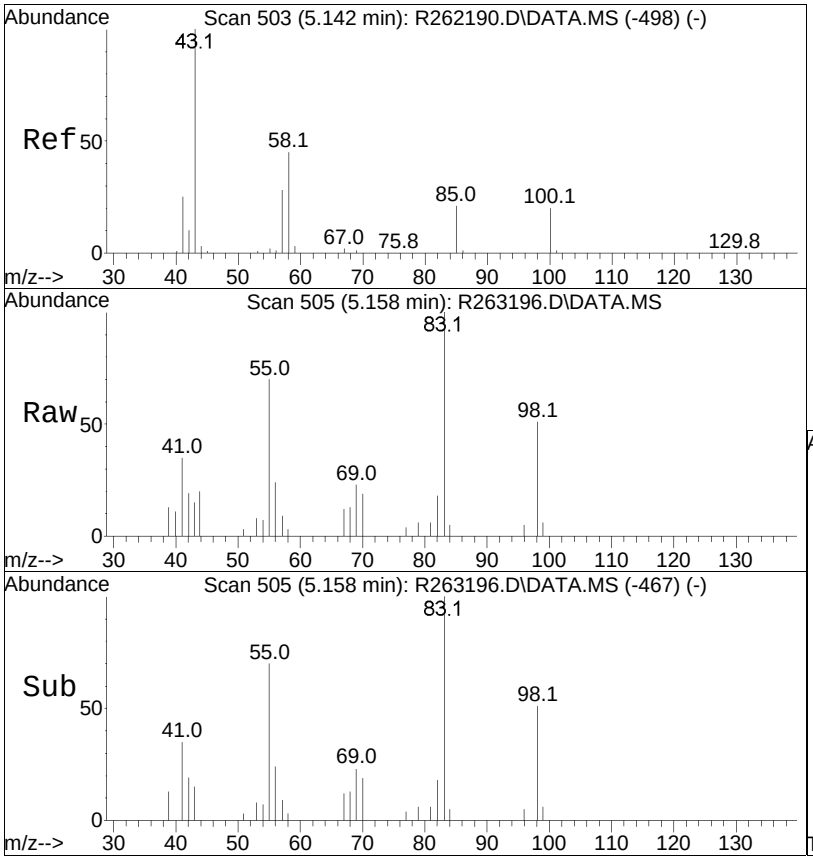


#62
heptane
Concen: 0.29 ppbV
RT: 4.865 min Scan# 473
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 43 Resp: 5339

Ion	Ratio	Lower	Upper
43	100		
57	68.3	52.1	78.1
100	25.3	24.8	37.2

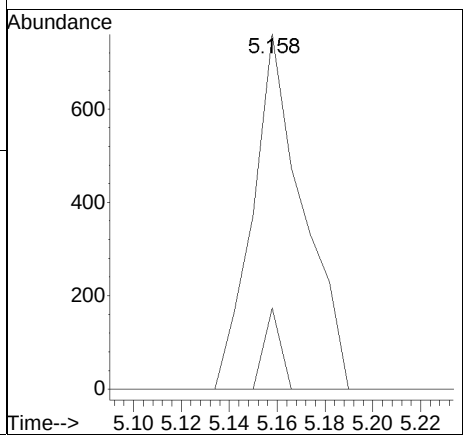


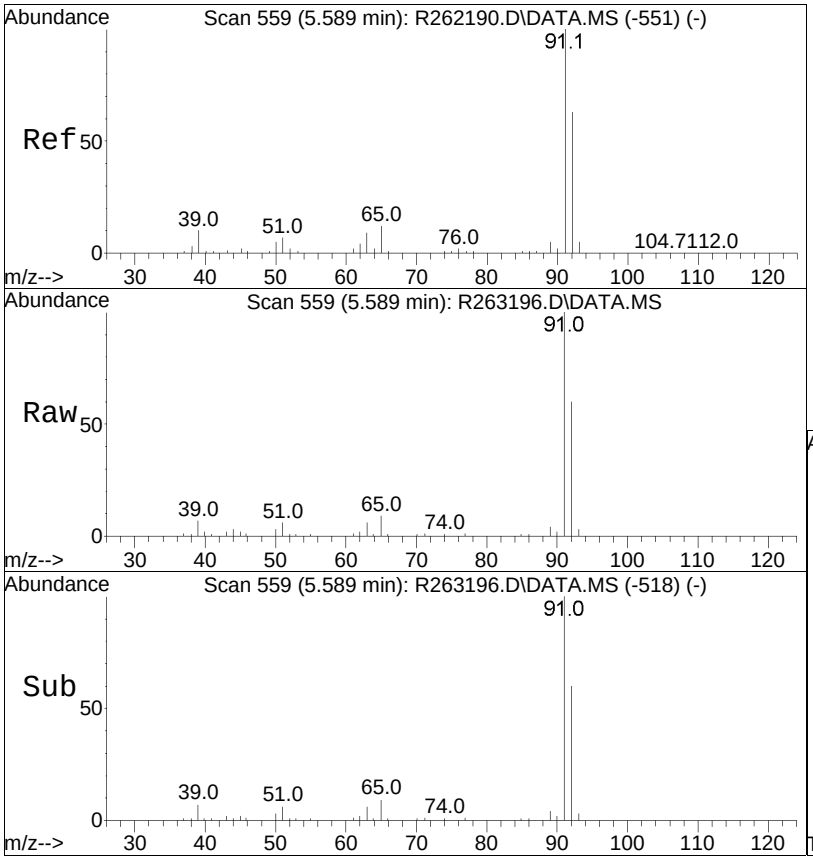


#64
4-methyl-2-pentanone
Concen: 0.05 ppbV
RT: 5.158 min Scan# 505
Delta R.T. 0.016 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 43 Resp: 1116

Ion	Ratio	Lower	Upper
43	100		
58	22.9	38.8	58.2#
100	0.0	18.2	27.4#

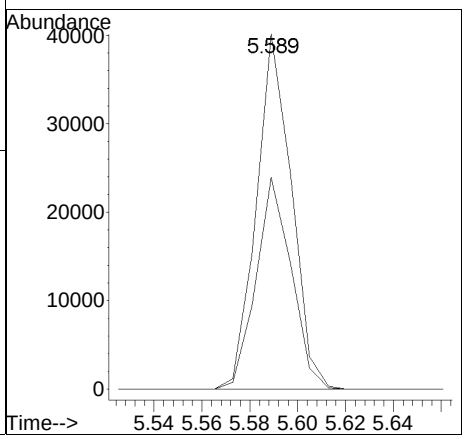


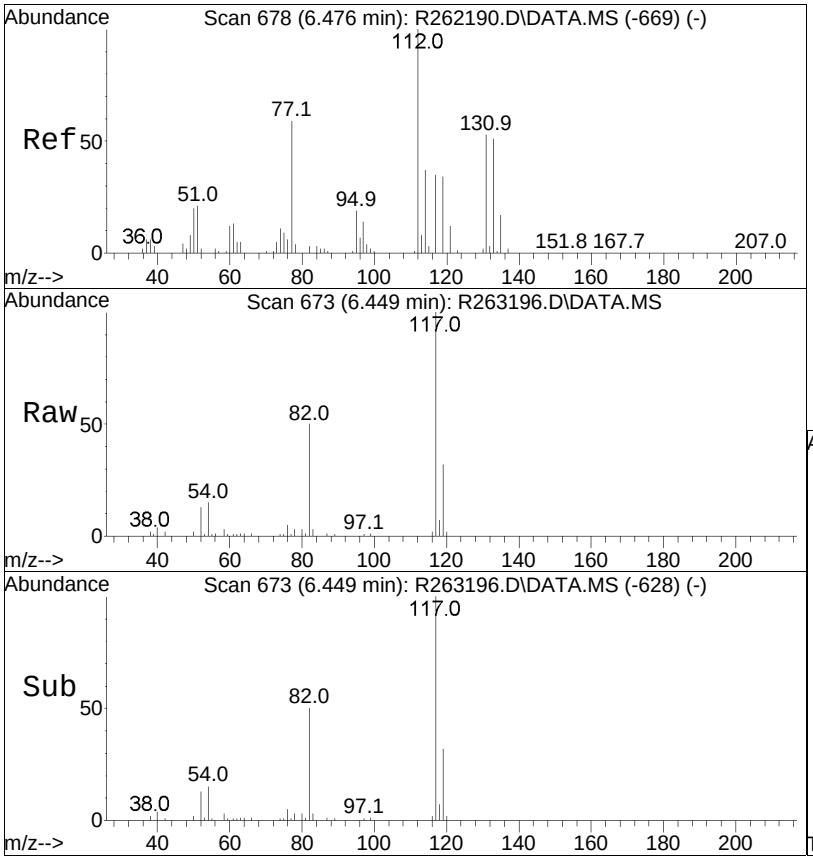


#68
toluene
Concen: 0.71 ppbV
RT: 5.589 min Scan# 559
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 91 Resp: 40871

Ion	Ratio	Lower	Upper
91	100		
92	59.6	47.9	71.9

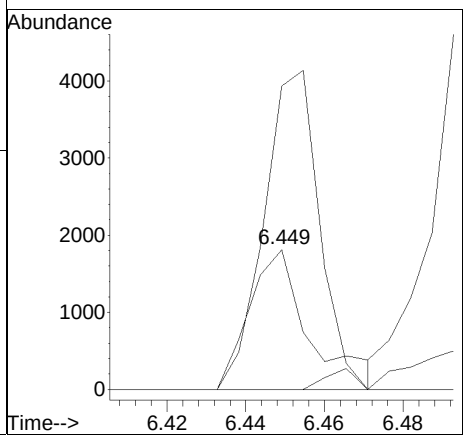


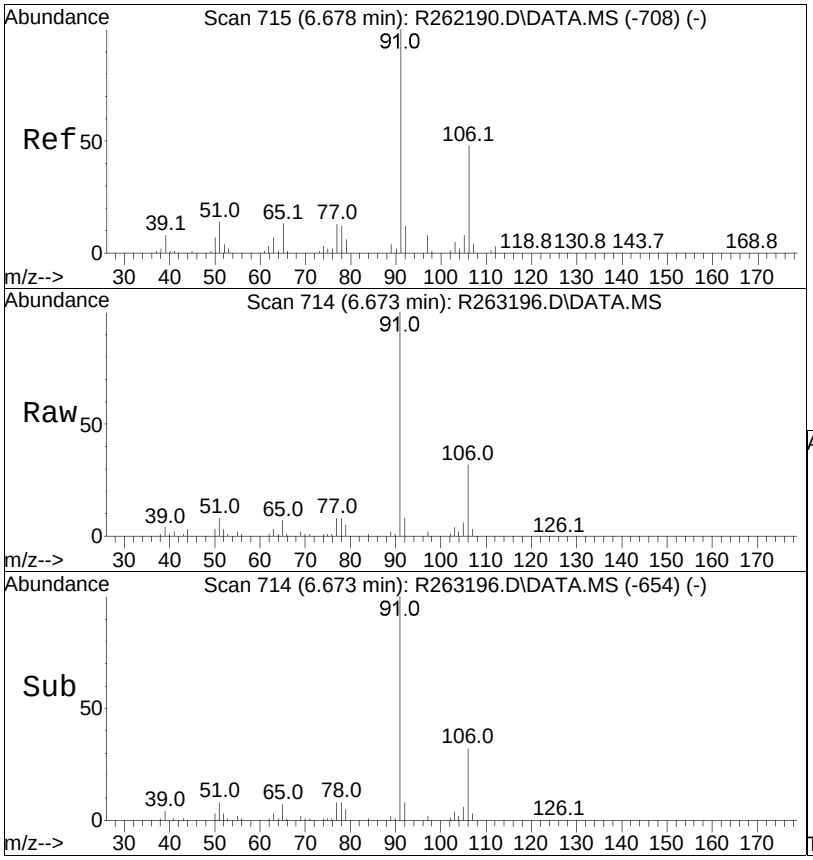


#80
chlorobenzene
Concen: 0.04 ppbV
RT: 6.449 min Scan# 673
Delta R.T. -0.022 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:112 Resp: 1919

Ion	Ratio	Lower	Upper
112	100		
114	0.0	25.7	38.5#
77	217.2	41.0	61.6#

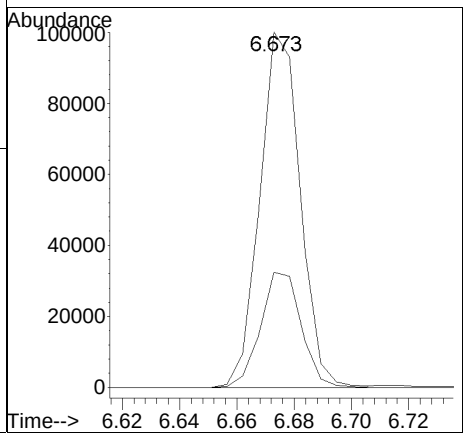


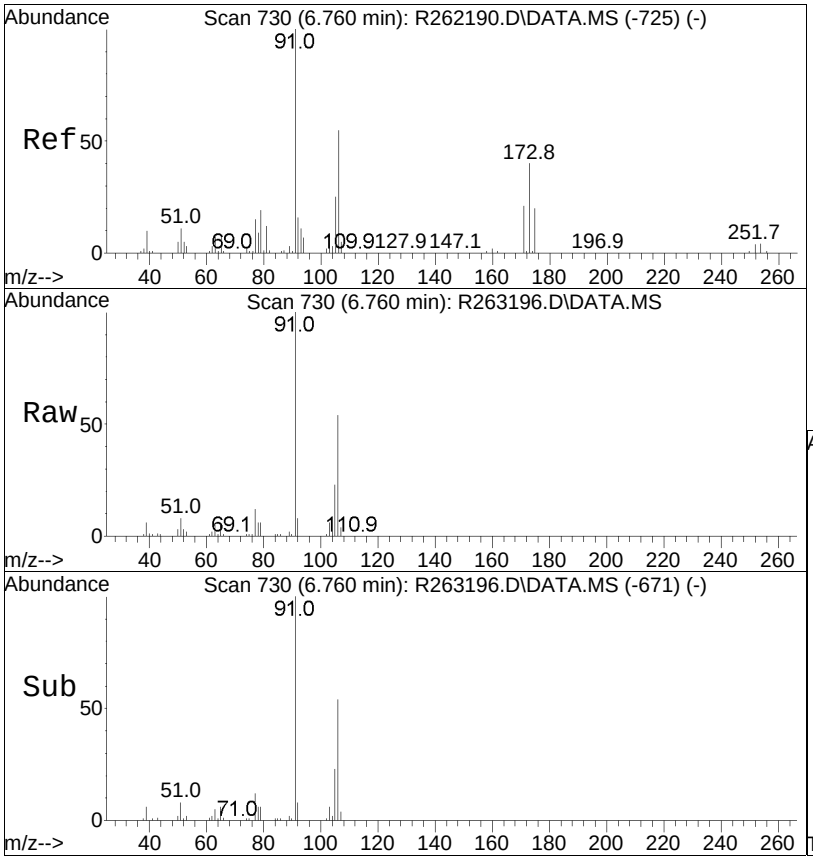


#81
ethylbenzene
Concen: 1.33 ppbV
RT: 6.673 min Scan# 714
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 91 Resp: 98023

Ion	Ratio	Lower	Upper
91	100		
106	32.4	26.6	39.8

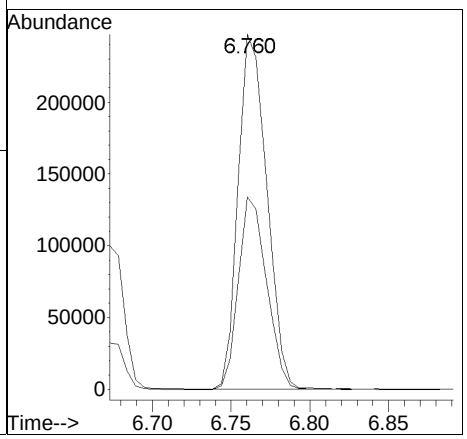


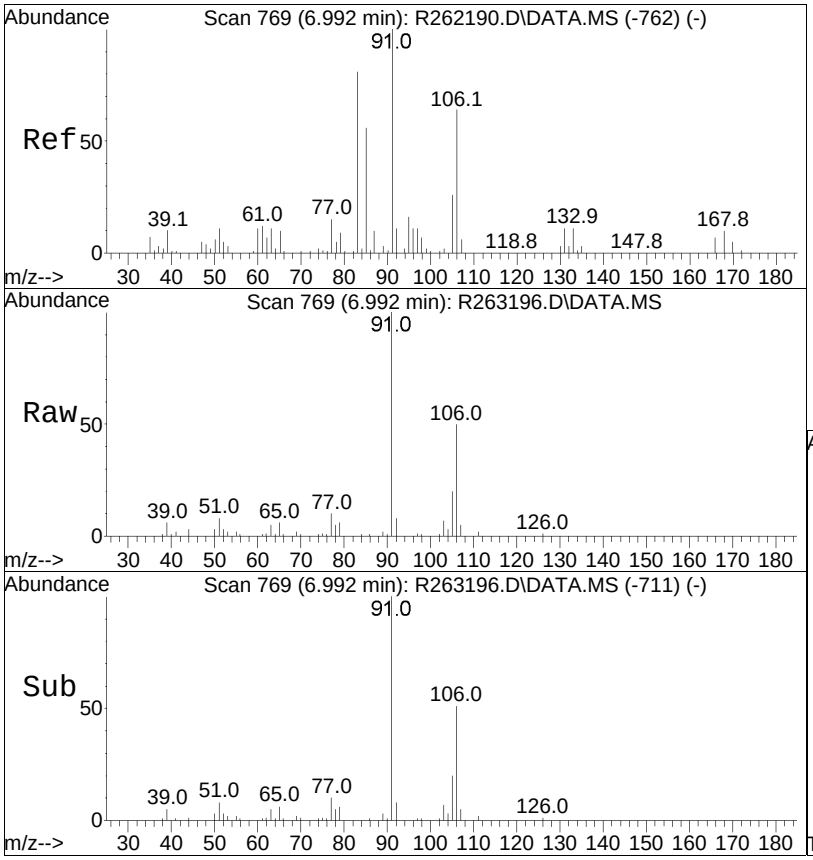


#83
m+p-xylene
Concen: 5.46 ppbV
RT: 6.760 min Scan# 730
Delta R.T. -0.006 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 91 Resp: 313958

Ion	Ratio	Lower	Upper
91	100		
106	54.1	40.6	60.8

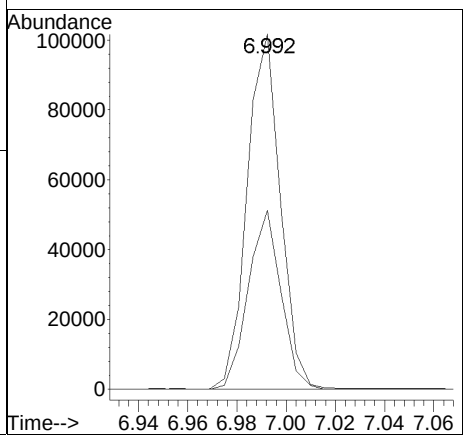


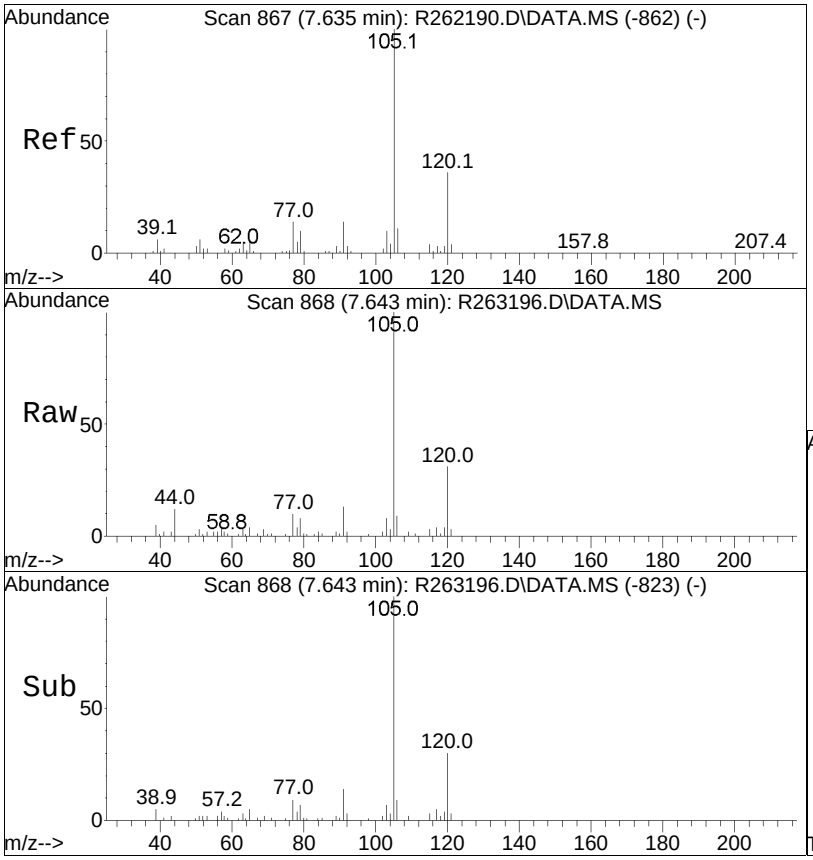


#87
o-xylene
Concen: 1.69 ppbV
RT: 6.992 min Scan# 769
Delta R.T. 0.006 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion: 91 Resp: 95910

Ion	Ratio	Lower	Upper
91	100		
106	50.4	40.8	61.2

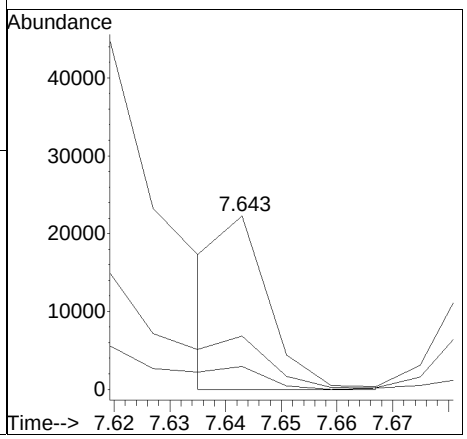


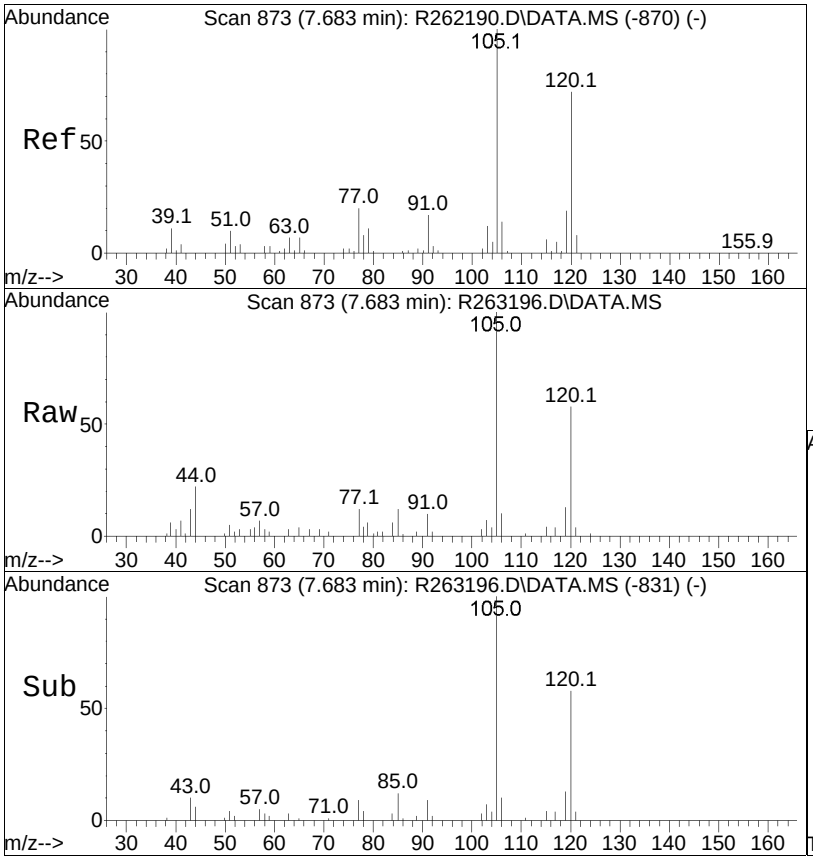


#96
4-ethyl toluene
Concen: 0.17 ppbV m
RT: 7.643 min Scan# 868
Delta R.T. 0.008 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:105 Resp: 13196

Ion	Ratio	Lower	Upper
105	100		
120	30.8	25.0	37.6
91	13.2	7.8	11.6#

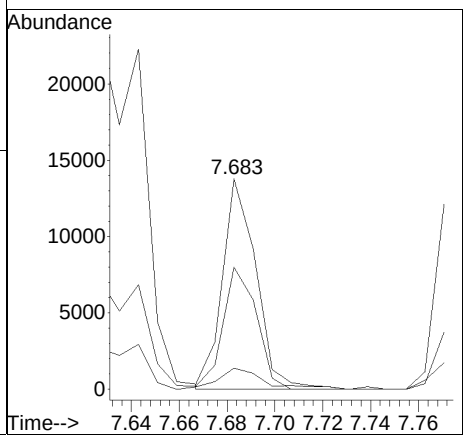


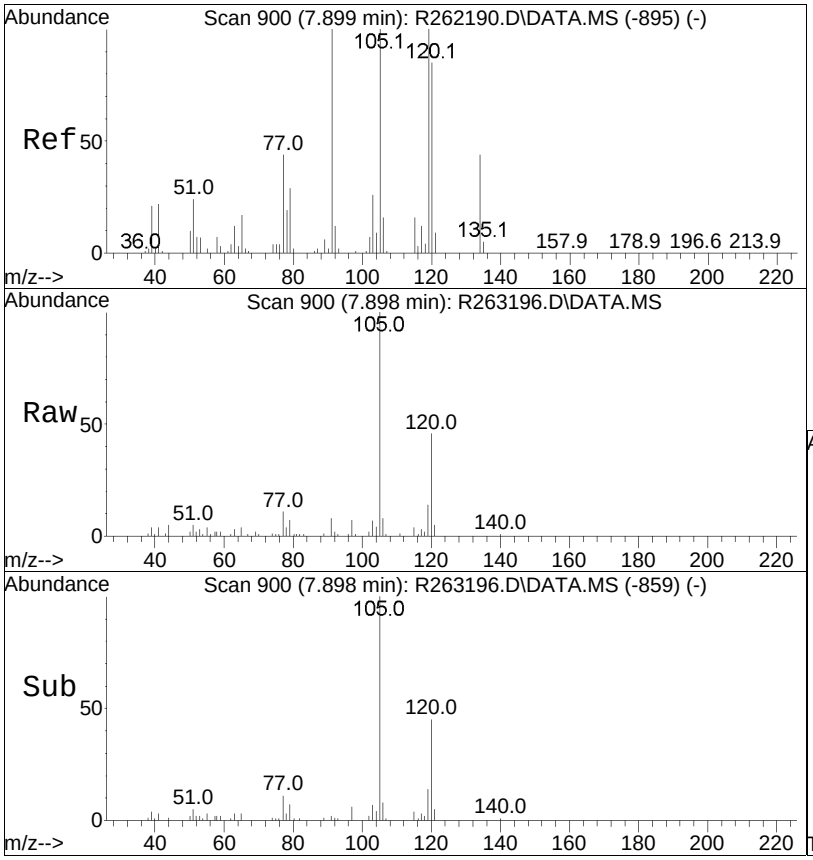


#97
1,3,5-trimethylbenzene
Concen: 0.20 ppbV
RT: 7.683 min Scan# 873
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:105 Resp: 13537

Ion	Ratio	Lower	Upper
105	100		
120	58.0	42.0	63.0
91	10.1	7.1	10.7

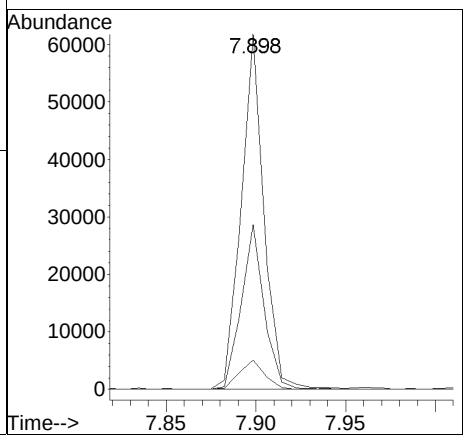


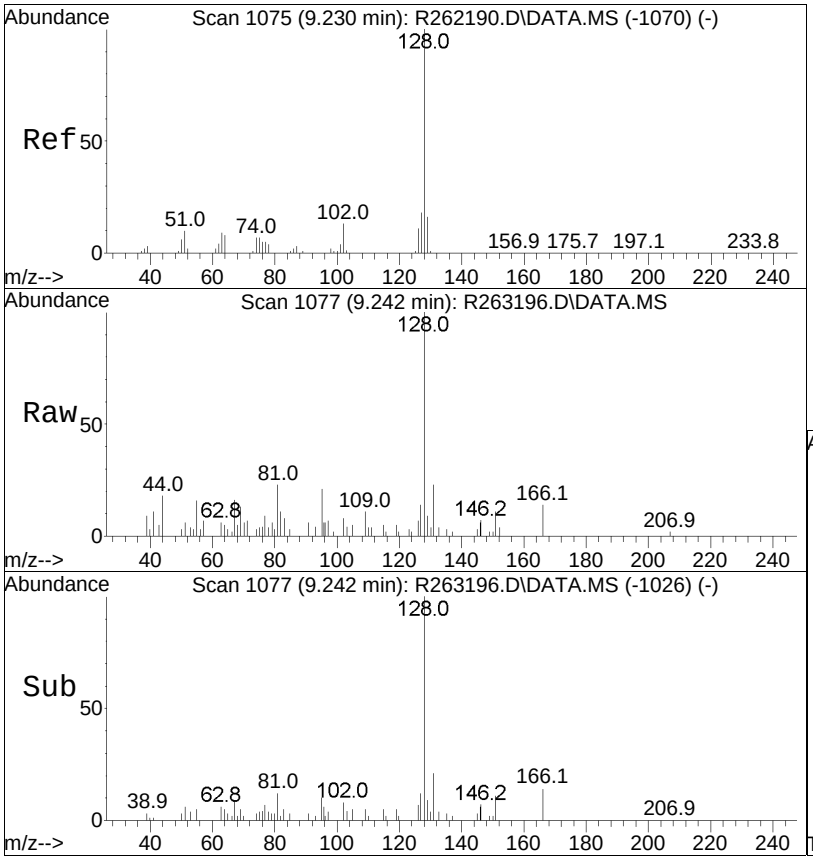


#99
1,2,4-trimethylbenzene
Concen: 0.79 ppbV
RT: 7.898 min Scan# 900
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:105 Resp: 54691

Ion	Ratio	Lower	Upper
105	100		
120	46.4	44.5	66.7
91	8.3	35.1	52.7#

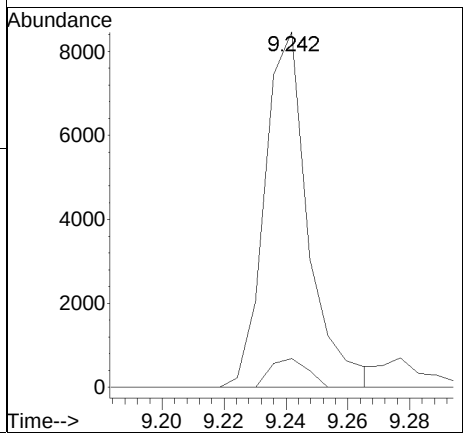




#116
naphthalene
Concen: 0.08 ppbV m
RT: 9.242 min Scan# 1077
Delta R.T. 0.012 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:128 Resp: 8278

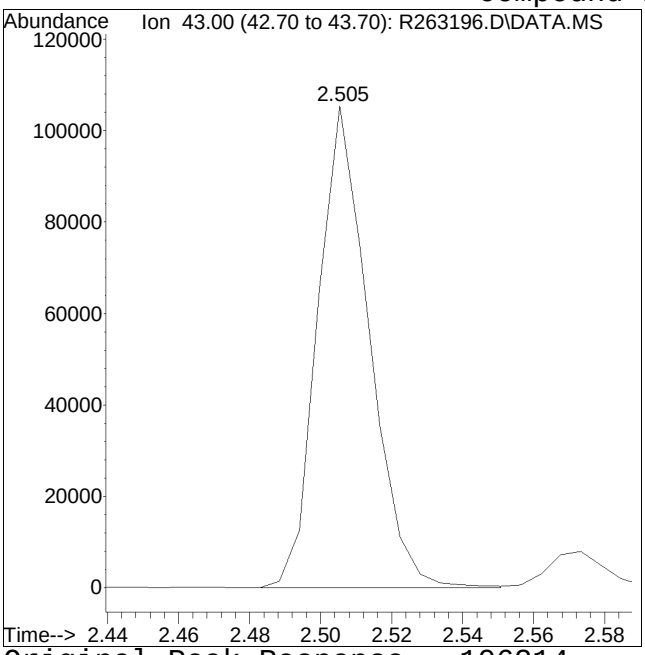
Ion	Ratio	Lower	Upper
128	100		
102	8.1	6.2	9.4



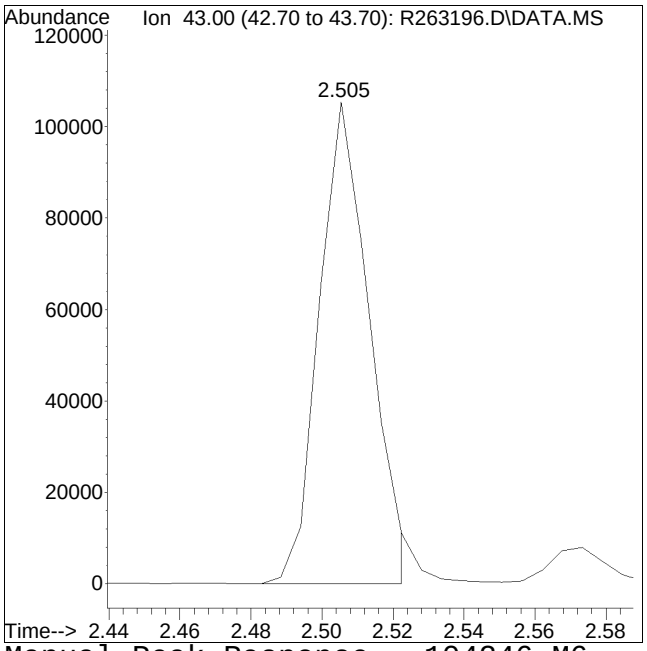
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263196.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 12:26 am Instrument : Airlab26
Sample : WG2057225-5,3,250,250 Quant Date : 4/23/2025 7:07 am

Compound #19: acetone



Original Peak Response = 106214



Manual Peak Response = 104246 M6

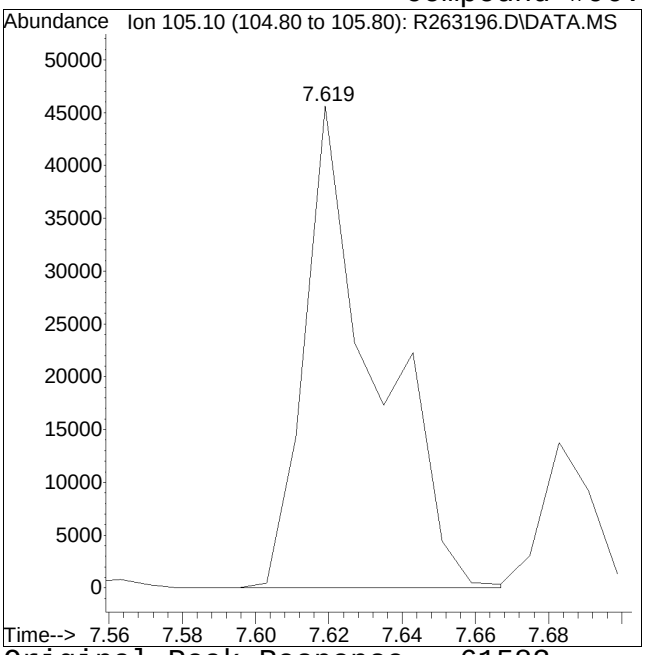
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

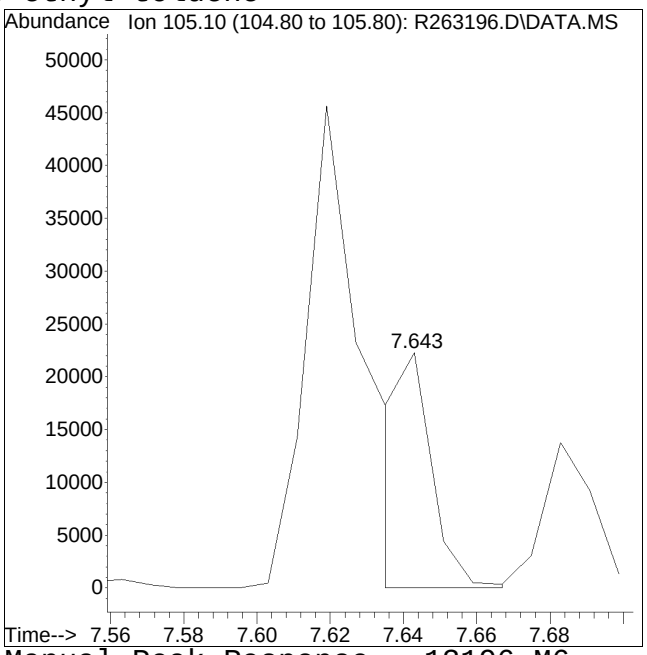
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R263196.D
Date Inj'd : 4/23/2025 12:26 am
Sample : WG2057225-5,3,250,250

Method : TFS26_250402.M
Operator : AIRLAB26:KJD
Instrument : Airlab26
Quant Date : 4/23/2025 7:07 am

Compound #96: 4-ethyl toluene



Original Peak Response = 61583



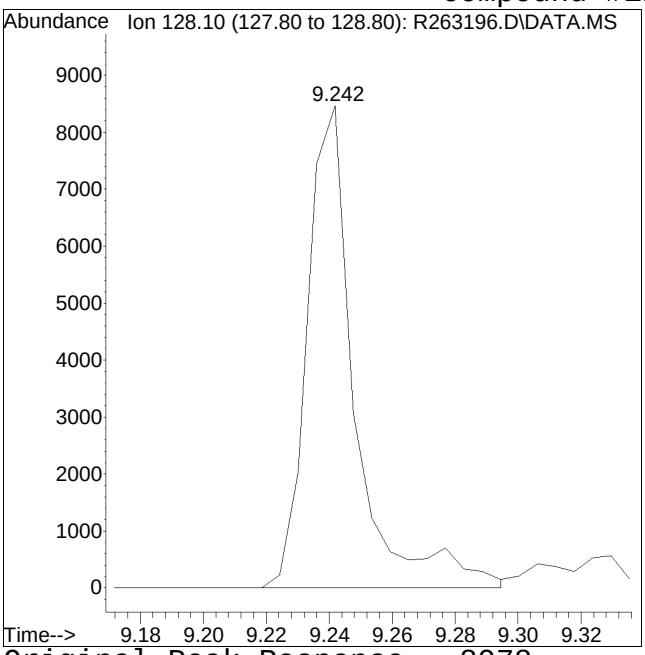
Manual Peak Response = 13196 M6

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

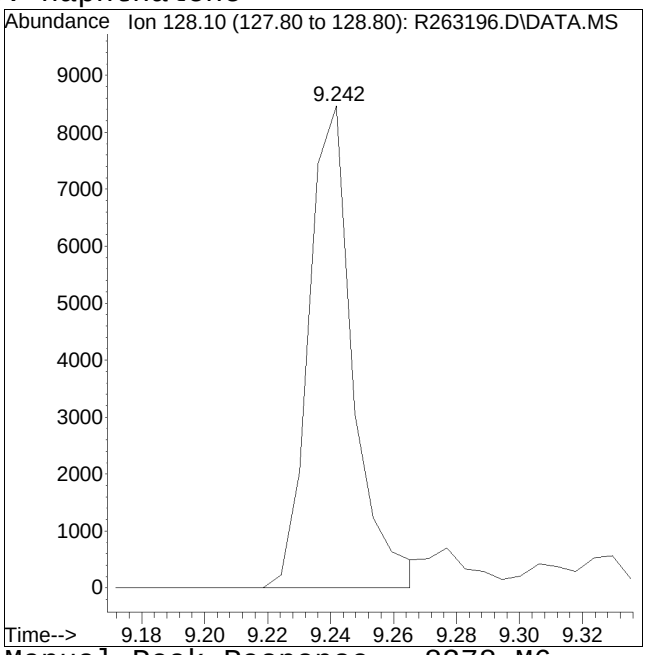
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TFS26_250402.M
Data File : R263196.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 12:26 am Instrument : Airlab26
Sample : WG2057225-5,3,250,250 Quant Date : 4/23/2025 7:07 am

Compound #116: naphthalene



Original Peak Response = 8978



Manual Peak Response = 8278 M6

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

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)

Apr 24 2025, 09:36 am

Work Group: WG2057225 for Department: 3 GC/MS

Created: 22-APR-25 Due: Operator: DJR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2521308-02	A-1	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-04	A-2	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-06	A-3	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-08	A-4	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-10	A-5	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-12	A-6	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-14	A-7	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-16	A-8	S	TO15-LL	AIR	DONE	U	0502	0417	S0	Can-6
L2522452-01	REC-1-777(VP)	S	TO15-LL	SOIL_VAPOR	DONE	U	0510	0417	S0	Can-6
L2522452-02	REC-1-777(AP)	S	TO15-LL	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522452-03	REC-1-711(VP)	S	TO15-LL	SOIL_VAPOR	DONE	U	0510	0417	S0	Can-6
L2522452-04	REC-1-711(AP)	S	TO15-LL	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522452-05	REC-1-707(VP)	S	TO15-LL	SOIL_VAPOR	DONE	U	0510	0417	S0	Can-6
L2522452-06	REC-1-707(AP)	S	TO15-LL	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522465-04	SSV04_040825	S	TO15-LL	SOIL_VAPOR	DONE	U	0508	0417	S0	Can-2.7
L2522465-15	SV06_041025	S	TO15-LL	SOIL_VAPOR	DONE	U	0510	0417	S0	Can-2.7
L2522632-01	IA-SV-1	S	TO15-LL	AIR	DONE	U	0511	0418	S0	Can-6
L2522632-02	DUP-04.10.2025	S	TO15-LL	AIR	DONE	U	0511	0418	S0	Can-6
L2522632-03	AA-01	S	TO15-LL	AIR	DONE	U	0511	0418	S0	Can-6
WG2057225-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG2057225-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG2057225-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG2057225-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG2057225-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG2057225-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG2057225-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG2057225-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG2057225-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				
WG2057225-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG2057225-5 L2522452-06

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 04/02/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 250402.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	BA26031401	TO15_SFS.M	R262650.D	250ML			NA
1	BA26031401	TO15_SFS.M	R262651.D	250ML			NA
1	BA26031401	TO15_SFS.M	R262652.D	250ML			NA
1	TA26031401	TO15_SFS.M	R262653.D	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.M	R262654.D	SS24-043D 50 mL	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.M	R262655.D	SS24-043D 125 mL	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.M	R262656.D	SS24-043D 250 mL	SIM ONLY	DEF	NA
6	ITO15-LLSTD0.2	TO15_SFS.M	R262657.D	SS24-043C 50 mL		DEF	NA
6	ITO15-LLSTD0.5	TO15_SFS.M	R262658.D	SS24-043C 125 mL		DEF	NA
6	ITO15-LLSTD1.0	TO15_SFS.M	R262659.D	SS24-043C 250 mL		DEF	NA
7	ITO15-LLSTD5.0	TO15_SFS.M	R262660.D	SS24-043B 125 mL		DEF	NA
7	ITO15-LLSTD010	TO15_SFS.M	R262661.D	SS24-043B 250 mL		DEF	NA
8	ITO15-LLSTD020	TO15_SFS.M	R262662.D	SS24-043A 50 mL		DEF	NA
8	ITO15-LLSTD050	TO15_SFS.M	R262663.D	SS24-043A 125 mL		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.M	R262664.D	SS24-043A 250 mL	LL ONLY	DEF	NA
1	BA26031401	TO15_SFS.M	R262665.D	250ML			NA
1	BA26031402	TO15_SFS.M	R262666.D	250ML			NA
2	CTO15-LLSTD010	TO15_SFS.M	R262667.D	SS25-006B 250 mL	LL ICV	DEF-ICV	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262668.D	SS25-006B 250 mL	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

ment ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 04/22/2025

Internal Standard/Surrogate Volume: 100 ml

t Initials BJB/DJR

Sequence File Name: 250422.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	TA26042001	TO15_SFS.M	R263178.D	250 mL	TUNE		NA
2	CA26042001	TO15_SFS.M	R263179.D	250ML	CC		NA
3	CTO15-LLSTD010	TO15_SFS.M	R263180.D	SS25-005A 250 mL	LL LCS	RR for hits of 124TCB by SIM	NA
3	CTO15-SIMSTD5.0	TO15_SFS.M	R263181.D	SS24-005A 125 mL	SIM LCS		NA
1	BA26042001	TO15_SFS.M	R263182.D	250ML	LL BLANK		NA
1	BA26042001	TO15_SFS.M	R263183.D	250ML	SIM BLANK		NA
1	L2522632-03,3,250,250	TO15_SFS.M	R263184.D	WG2057225,ICAL22173		NY + naph -7sim	Y
2	L2521308-02,3,250,250	TO15_SFS.M	R263185.D	WG2057225,ICAL22173		PA -9sim	Y
3	L2521308-04,3,250,250	TO15_SFS.M	R263186.D	WG2057225,ICAL22173		PA -9sim	Y
4	L2521308-06,3,250,250	TO15_SFS.M	R263187.D	WG2057225,ICAL22173		PA -9sim	Y
5	L2521308-08,3,250,250	TO15_SFS.M	R263188.D	WG2057225,ICAL22173		PA -9sim	Y
6	L2521308-10,3,250,250	TO15_SFS.M	R263189.D	WG2057225,ICAL22173		PA -9sim	Y
7	L2521308-12,3,250,250	TO15_SFS.M	R263190.D	WG2057225,ICAL22173		PA -9sim	Y
8	L2521308-14,3,250,250	TO15_SFS.M	R263191.D	WG2057225,ICAL22173		PA -9sim	Y
9	L2521308-16,3,250,250	TO15_SFS.M	R263192.D	WG2057225,ICAL22173		PA -9sim	Y
10	L2522452-02,3,250,250	TO15_SFS.M	R263193.D	WG2057225,ICAL22173		NY + naph -7sim	Y
11	L2522452-04,3,250,250	TO15_SFS.M	R263194.D	WG2057225,ICAL22173		NY + naph -7sim	Y
12	L2522452-06,3,250,250	TO15_SFS.M	R263195.D	WG2057225,ICAL22173		NY + naph -7sim	Y
12	L2522452-06DUP,3,250,250	TO15_SFS.M	R263196.D	WG2057225,ICAL22173	LL/SIM DUP	NY + naph -7sim	Y
13	L2522224-01,3,250,250	TO15_SFS.M	R263197.D	WG2057230,ICAL22174		Std + naph by SIM	Y
14	L2522632-01,3,250,250	TO15_SFS.M	R263198.D	WG2057225,ICAL22173	ACETONE, IPA AND TOLUENE OVERCAL	NY + naph -7sim	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L2522632-02,3,250,250	TO15_SFS.M	R263199.D	WG2057225,ICAL22173	ACETONE, IPA AND TOLUENE OVERCAL	NY + naph -7sim	Y
16	L2522465-04,3,250,250	TO15_SFS.M	R263200.D	WG2057225,ICAL22173		NY + naph	Y
1	L2522465-15,3,250,250	TO15_SFS.M	R263201.D	WG2057225,ICAL22173		NY + naph	Y
2	L2522452-01,3,250,250	TO15_SFS.M	R263202.D	WG2057225,ICAL22173	ACETONE OVERCAL	NY + naph	Y
3	L2522452-03,3,250,250	TO15_SFS.M	R263203.D	WG2057225,ICAL22173		NY + naph	Y
4	L2522452-05,3,250,250	TO15_SFS.M	R263204.D	WG2057225,ICAL22173		NY + naph	Y
14	L2522632-01D,3,50,250	TO15_SFS.M	R263205.D	WG2057225,ICAL22173		ACETONE IPA AND TOLUENE	Y
15	L2522632-02D,3,50,250	TO15_SFS.M	R263206.D	WG2057225,ICAL22173		ACETONE IPA AND TOLUENE	Y
2	L2522452-01D,3,50,250	TO15_SFS.M	R263207.D	WG2057225,ICAL22173		ACETONE	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

GC/MS VOA
Air Analysis
Selective Ion Monitoring

Volatiles QC Summary

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG2057230-3	**Analysis Date** : 04/22/25 14:09	**File ID** : R263181
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	5.88	118				-	70-130	25
1,1-Dichloroethene	5	5.70	114				-	70-130	25
cis-1,2-Dichloroethene	5	5.07	101				-	70-130	25
1,1,1-Trichloroethane	5	5.18	104				-	70-130	25
Carbon tetrachloride	5	5.30	106				-	70-130	25
Trichloroethene	5	5.20	104				-	70-130	25
Tetrachloroethene	5	4.83	97				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab Sample ID	: WG2057230-4	**Lab File ID**	: R263183
Instrument ID	: AIRLAB26		
Matrix	: AIR	**Analysis Date**	: 04/22/25 16:06

Client Sample No.	Lab Sample ID	Analysis Date
WG2057230-3LCS	WG2057230-3	04/22/25 14:09
AA-01	L2522632-03	04/22/25 17:49
REC-1-707(AP)DUP	WG2057230-5	04/23/25 00:26
IA-SV-1	L2522632-01	04/23/25 01:30
DUP-04.10.2025	L2522632-02	04/23/25 02:03

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/03/25 00:31
Tune Standard	: WG2049330-1	**Tune File ID**	: R262653_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.6
75	30.0 - 66.0% of mass 95	41.2
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	91
175	4.0 - 9.0% of mass 174	7.1 (7.8)1
176	93.0 - 101% of mass 174	87.7 (96.4)1
177	5.0 - 9.0% of mass 176	5.9 (6.7)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1949029-1	R262654	04/03/25 01:01
STD0.05	R1949029-2	R262655	04/03/25 01:31
STD0.1	R1949029-3	R262656	04/03/25 02:03
STD0.2	R1949029-4	R262657	04/03/25 02:36
STD0.5	R1949029-5	R262658	04/03/25 03:11
STD1.0	R1949029-6	R262659	04/03/25 03:47
STD5.0	R1949029-7	R262660	04/03/25 04:21
STD010	R1949029-8	R262661	04/03/25 04:57
STD020	R1949029-9	R262662	04/03/25 05:30
STD050	R1949029-10	R262663	04/03/25 06:04
ICV Quant Report	R1949029-11	R262668	04/03/25 16:10

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/22/25 12:15
Tune Standard	: WG2057230-1	**Tune File ID**	: R263178_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.6
75	30.0 - 66.0% of mass 95	42.5
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.6 (.7)1
174	50.0 - 120.0% of mass 95	89.2
175	4.0 - 9.0% of mass 174	6.6 (7.4)1
176	93.0 - 101% of mass 174	88.3 (99)1
177	5.0 - 9.0% of mass 176	5.7 (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
WG2057230-2CCAL	WG2057230-2	R263181	04/22/25 14:09
WG2057230-3LCS	WG2057230-3	R263181	04/22/25 14:09
WG2057230-4BLANK	WG2057230-4	R263183	04/22/25 16:06
AA-01	L2522632-03	R263184	04/22/25 17:49
WG2057230-5DUP	WG2057230-5	R263196	04/23/25 00:26
IA-SV-1	L2522632-01	R263198	04/23/25 01:30
DUP-04.10.2025	L2522632-02	R263199	04/23/25 02:03

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Analysis Date**	: 04/22/25 14:09:00
Sample No	: WG2057230-2	**Lab File ID**	: R263181

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG2057230-2	177350	3.51	751175	4.37	87101	6.45
Upper Limit	248290	3.84	1051645	4.70	121941	6.78
Lower Limit	106410	3.18	450705	4.04	52261	6.12
Sample ID						
WG2057230-3 LCS	177350	3.51	751175	4.37	87101	6.45
WG2057230-4 BLANK	175199	3.50	722647	4.37	85437	6.45
AA-01	168390	3.50	698140	4.37	81477	6.45
REC-1-707(AP) DUP	172893	3.50	712195	4.37	83747	6.45
IA-SV-1	174537	3.50	721008	4.37	87413	6.45
DUP-04.10.2025	174203	3.51	723906	4.37	86933	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: 04/17/25
Created By: Jason Hebert
File: PM19301-1
Page: 1

Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Generic Air Can for Bottleorder

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			
1,2,4-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-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			
2,2,4-Trimethylpentane	540-84-1	0.2	0.037	ppbV	70-130	25		25	25			
2-Hexanone	591-78-6	0.2	0.0354	ppbV	70-130	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0327	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			
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			
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			
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			

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 Pace Analytical Services.

Volatile Organics in Air by TO-15 SIM (AIR)

Holding Time: 30 days
Container/Sample Preservation: 1 - Generic Air Can for Bottleorder

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
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			
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			
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			
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	1	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			
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 Pace Analytical Services.

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-01	**Date Collected**	: 04/11/25 01:30
Client ID	: IA-SV-1	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/23/25 01:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R263198	**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	0.070	0.020	--	0.440	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.021	0.020	--	0.142	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-02	**Date Collected**	: 04/11/25 01:35
Client ID	: DUP-04.10.2025	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/23/25 02:03
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R263199	**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	0.069	0.020	--	0.434	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.022	0.020	--	0.149	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: L2522632-03	**Date Collected**	: 04/11/25 01:05
Client ID	: AA-01	**Date Received**	: 04/11/25
Sample Location	: 458 E 99TH ST BROOKLYN, NY	**Date Analyzed**	: 04/22/25 17:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R263184	**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	0.042	0.020	--	0.107	0.051	--	
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	0.073	0.020	--	0.459	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.038	0.020	--	0.258	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Lab ID	: WG2057230-4	**Date Collected**	: NA
Client ID	: WG2057230-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 04/22/25 16:06
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: KJD
Lab File ID	: R263183	**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\04\0422SIM\
Data File : R263184.D
Acq On : 22 Apr 2025 05:49 pm
Operator : AIRLAB26:KJD
Sample : L2522632-03,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 07:14:51 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : 7-NY-SIM - .

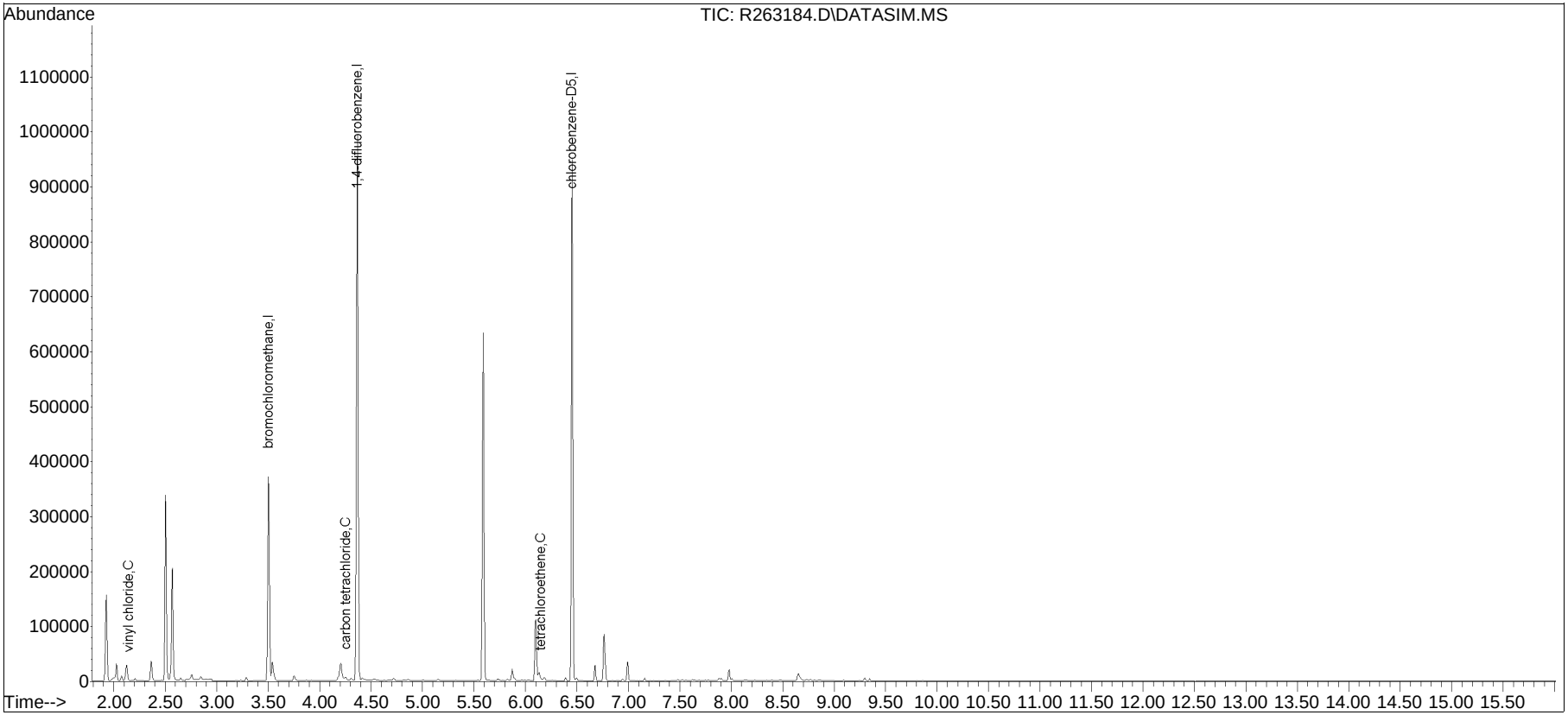
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	168390	10.000	ppbV	0.00
Standard Area = 177350			Recovery =		94.95%	
33) 1,4-difluorobenzene	4.368	114	698140	10.000	ppbV	0.00
Standard Area = 751175			Recovery =		92.94%	
51) chlorobenzene-D5	6.452	54	81477	10.000	ppbV	0.00
Standard Area = 87101			Recovery =		93.54%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.147	62	588	0.042	ppbV	90
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	0.000		0	N.D.		
38) carbon tetrachloride	4.255	117	2256	0.073	ppbV	98
44) trichloroethene	4.689		0	N.D.		
57) tetrachloroethene	6.150	166	1200	0.038	ppbV	91

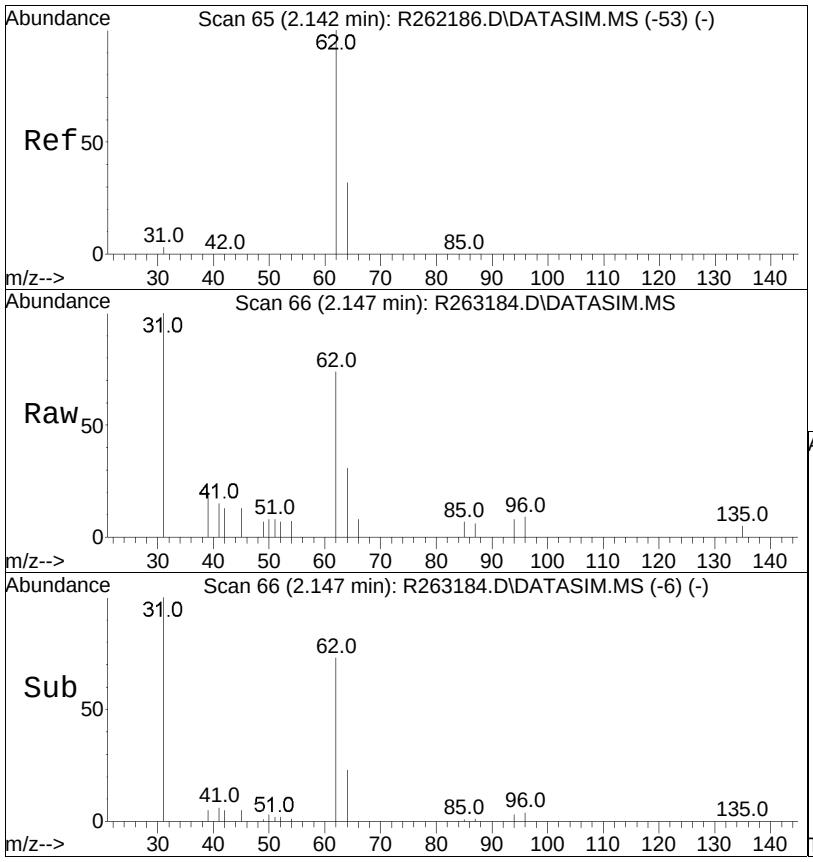
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .ta\Airlab26\2025\04\0422SIM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263184.D
Acq On : 22 Apr 2025 05:49 pm
Operator : AIRLAB26:KJD
Sample : L2522632-03,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 07:14:51 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

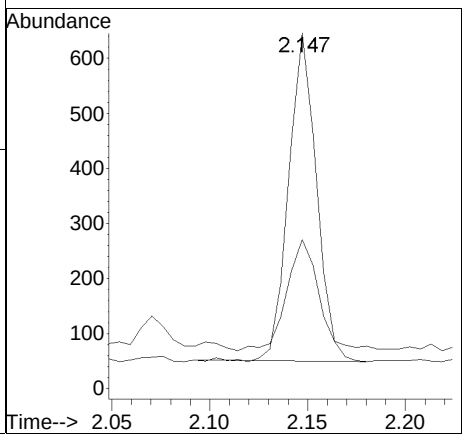


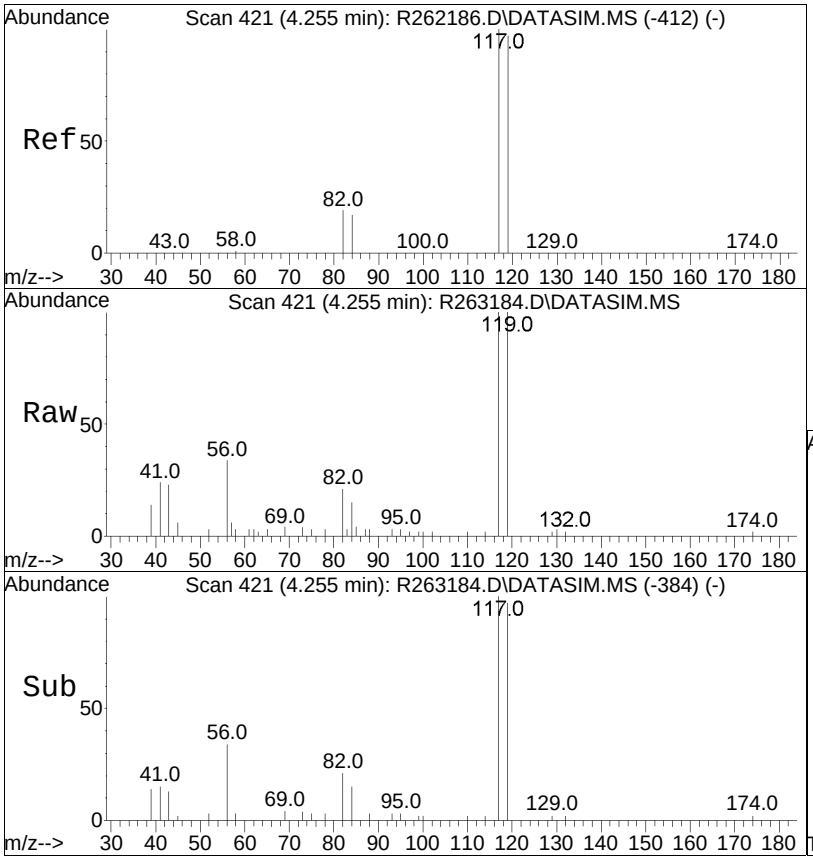


#6
vinyl chloride
Concen: 0.04 ppbV
RT: 2.147 min Scan# 66
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion: 62 Resp: 588

Ion	Ratio	Lower	Upper
62	100		
64	37.9	25.8	38.8

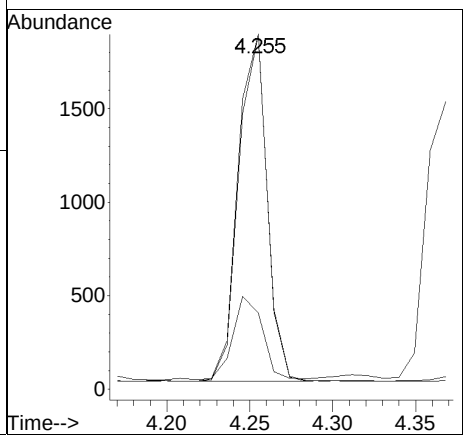


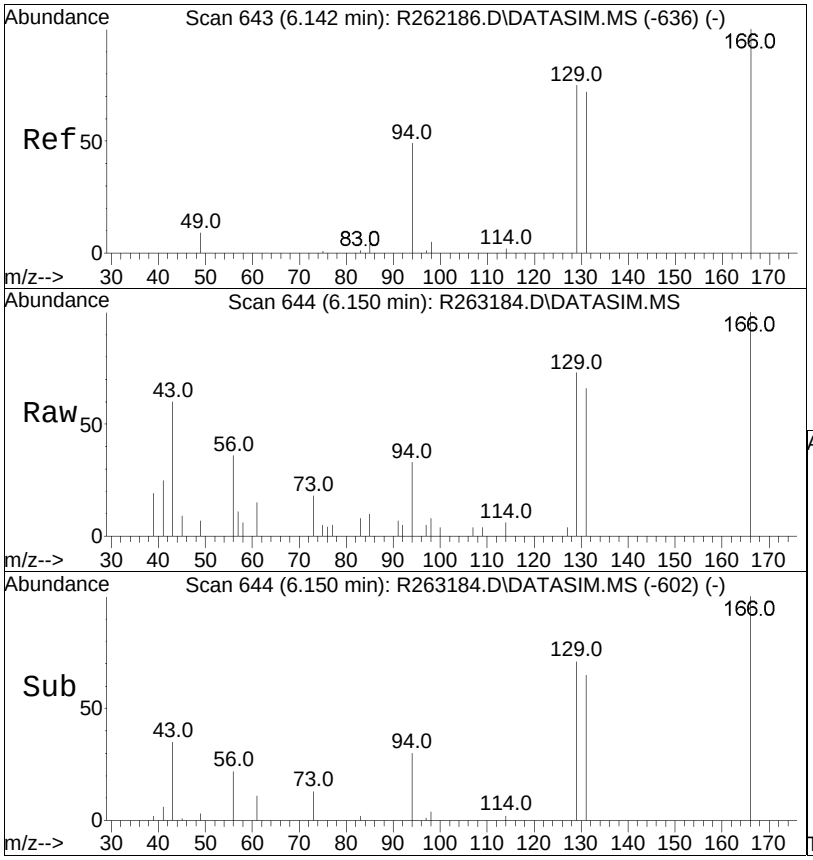


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion:117 Resp: 2256

Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.1	115.7
82	23.0	20.6	31.0

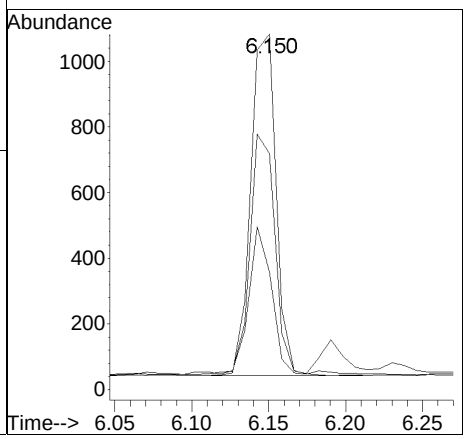




#57
tetrachloroethene
Concen: 0.04 ppbV
RT: 6.150 min Scan# 644
Delta R.T. 0.008 min
Lab File: R263184.D
Acq: 22 Apr 2025 05:49 pm

Tgt Ion:166 Resp: 1200

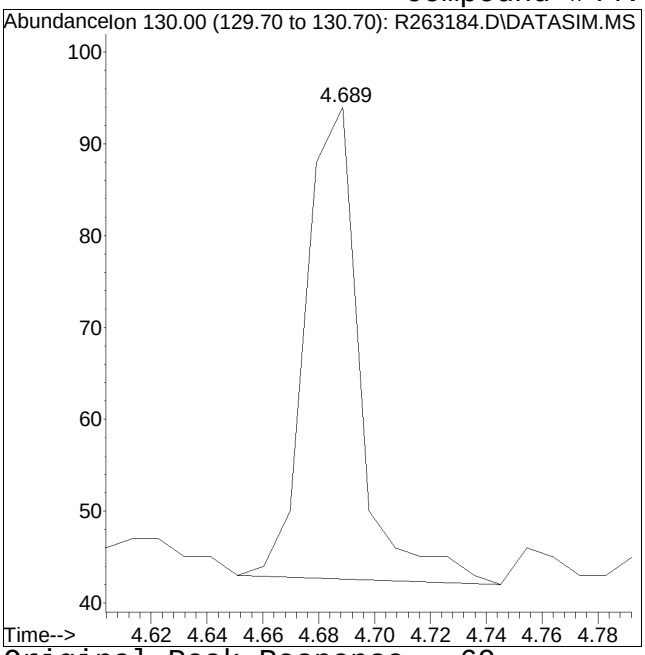
Ion	Ratio	Lower	Upper
166	100		
131	62.0	55.1	82.7
94	40.2	28.0	42.0



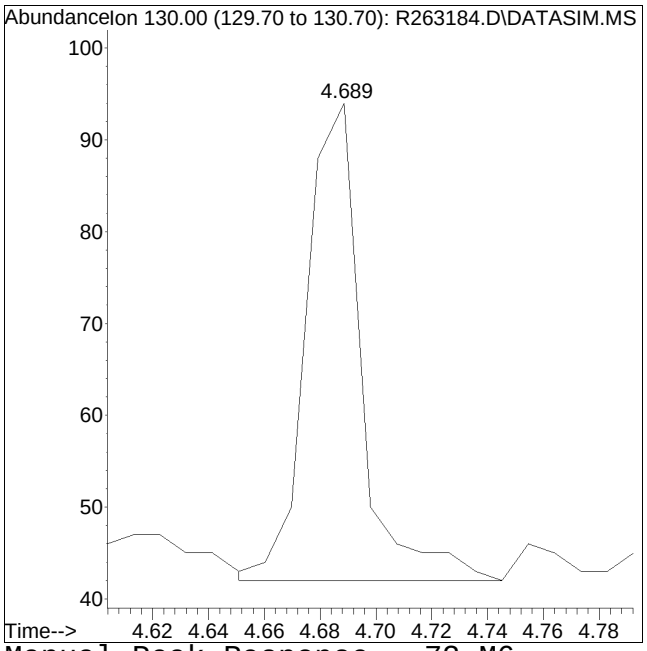
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263184.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 5:49 pm Instrument : Airlab26
Sample : L2522632-03,3,250,250 Quant Date : 4/23/2025 7:14 am

Compound #44: trichloroethene



Original Peak Response = 69



Manual Peak Response = 72 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\04\0422SIM\
Data File : R263198.D
Acq On : 23 Apr 2025 01:30 am
Operator : AIRLAB26:KJD
Sample : L2522632-01,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 07:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : 7-NY-SIM - .

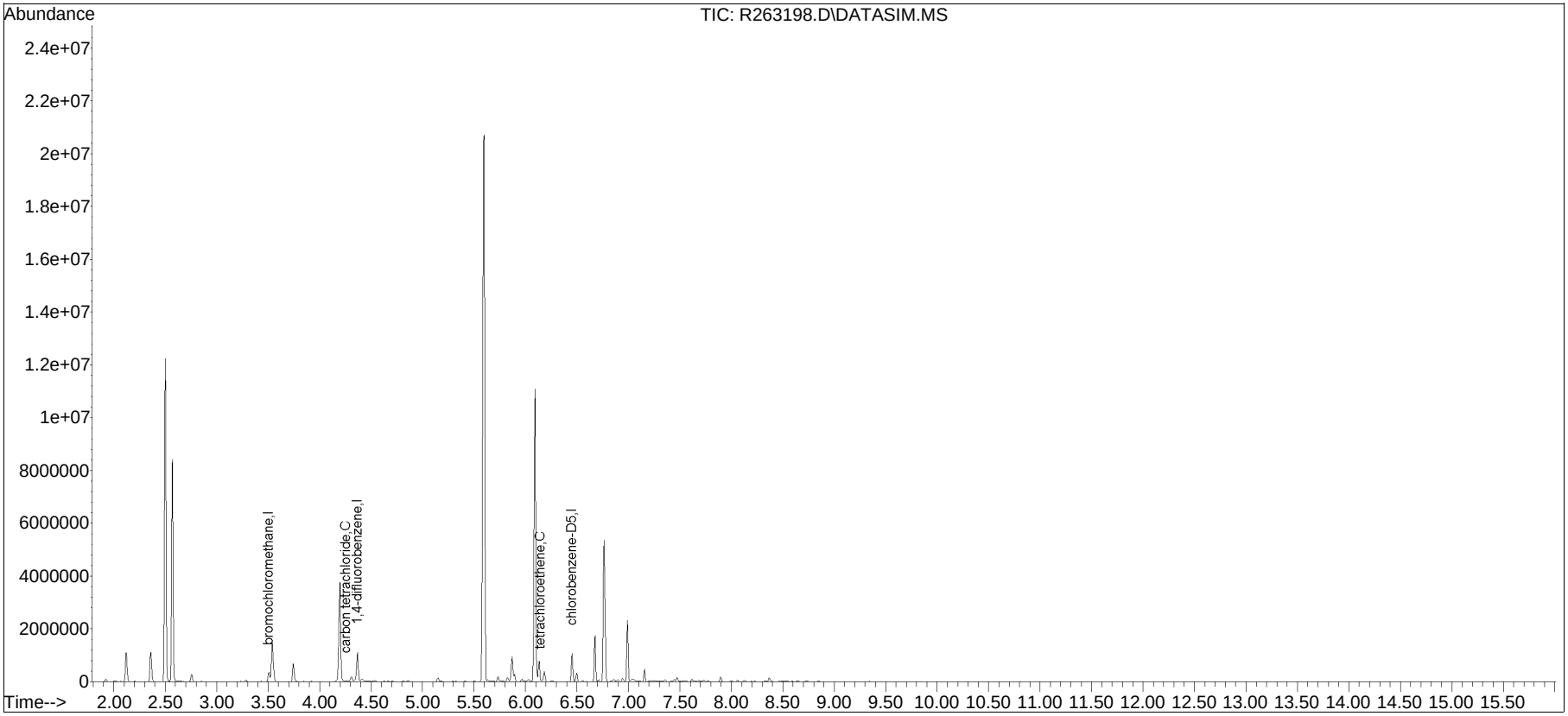
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	174537	10.000	ppbV	0.00
Standard Area = 177350			Recovery = 98.41%			
33) 1,4-difluorobenzene	4.368	114	721008	10.000	ppbV	0.00
Standard Area = 751175			Recovery = 95.98%			
51) chlorobenzene-D5	6.452	54	87413	10.000	ppbV	0.00
Standard Area = 87101			Recovery = 100.36%			
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	0.000		0	N.D.	d	
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2242M6	0.070	ppbV	
44) trichloroethene	4.679		0	N.D.		
57) tetrachloroethene	6.142	166	705M6	0.021	ppbV	

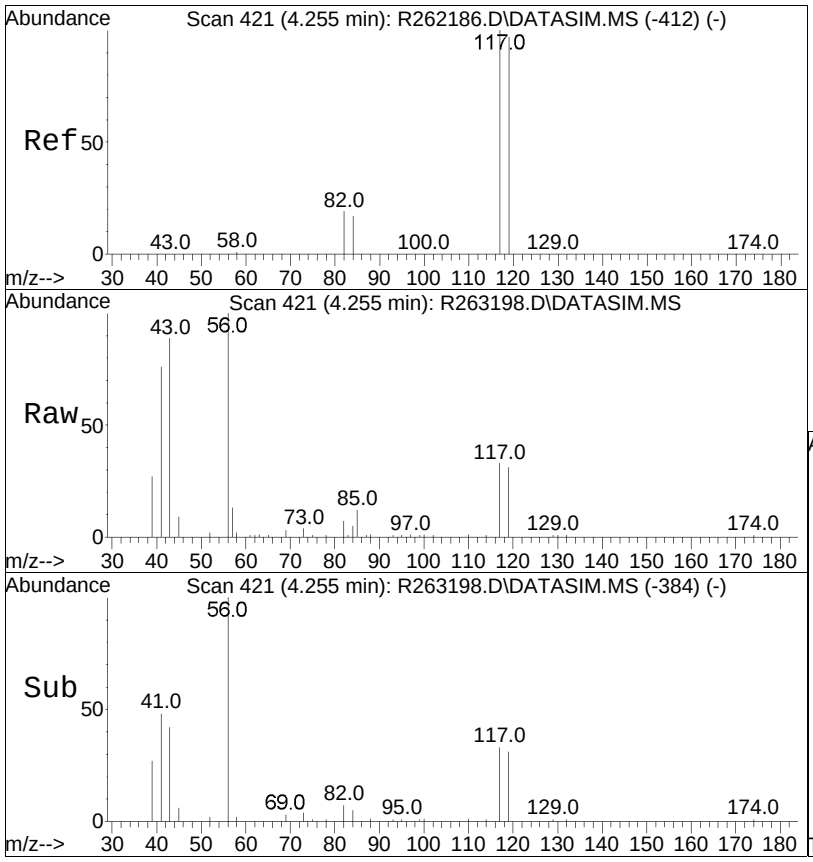
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .ta\Airlab26\2025\04\0422SIM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263198.D
Acq On : 23 Apr 2025 01:30 am
Operator : AIRLAB26:KJD
Sample : L2522632-01,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Apr 23 07:16:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

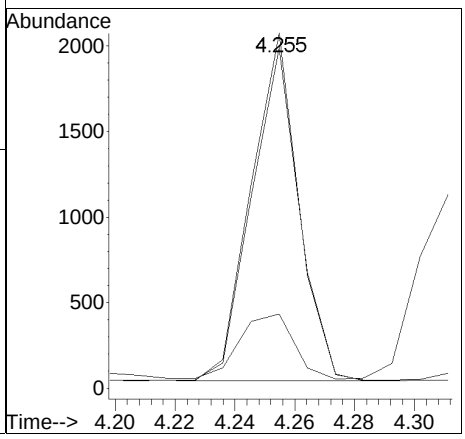


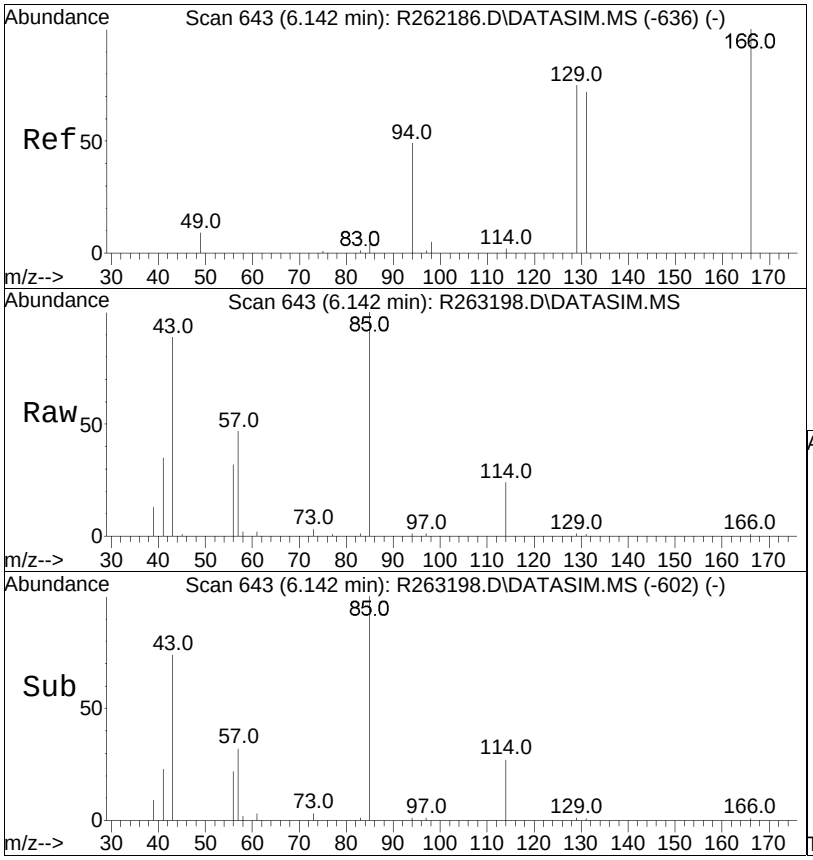


#38
carbon tetrachloride
Concen: 0.07 ppbV m
RT: 4.255 min Scan# 421
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:117 Resp: 2242

Ion	Ratio	Lower	Upper
117	100		
119	96.7	77.1	115.7
82	58.0	20.6	31.0#

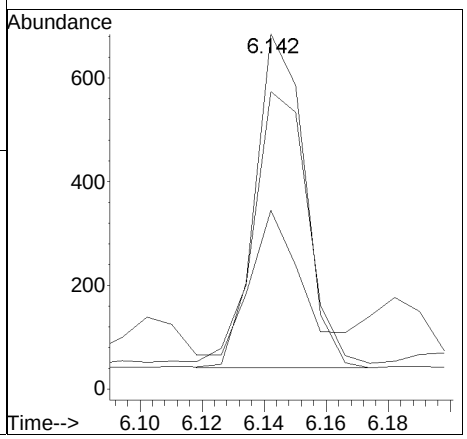




#57
tetrachloroethene
Concen: 0.02 ppbV m
RT: 6.142 min Scan# 643
Delta R.T. -0.000 min
Lab File: R263198.D
Acq: 23 Apr 2025 01:30 am

Tgt Ion:166 Resp: 705

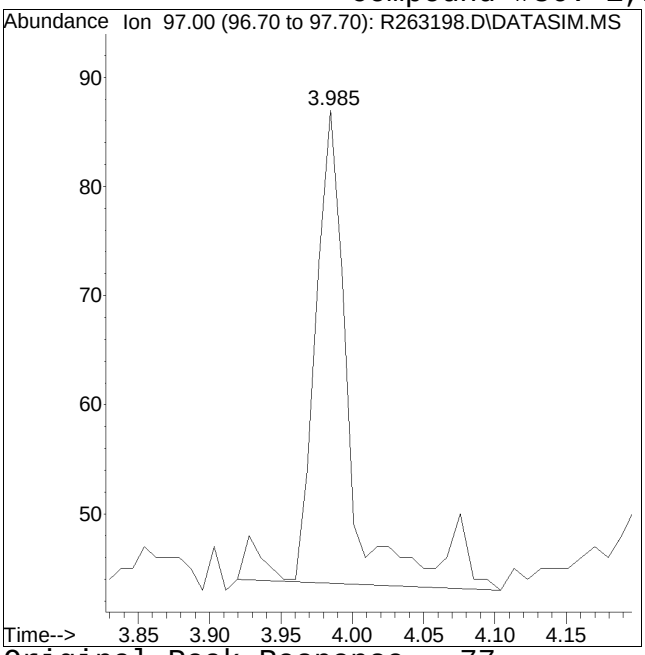
Ion	Ratio	Lower	Upper
166	100		
131	98.3	55.1	82.7#
94	90.1	28.0	42.0#



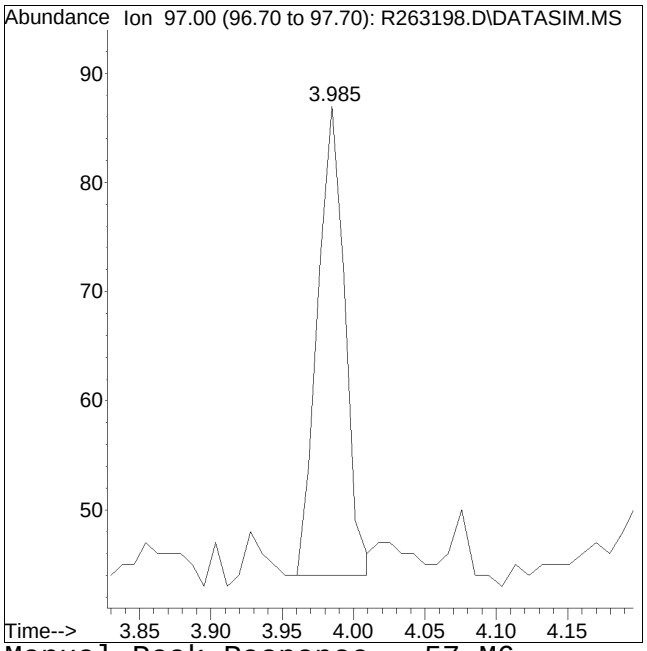
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263198.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 1:30 am Instrument : Airlab26
Sample : L2522632-01,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 77



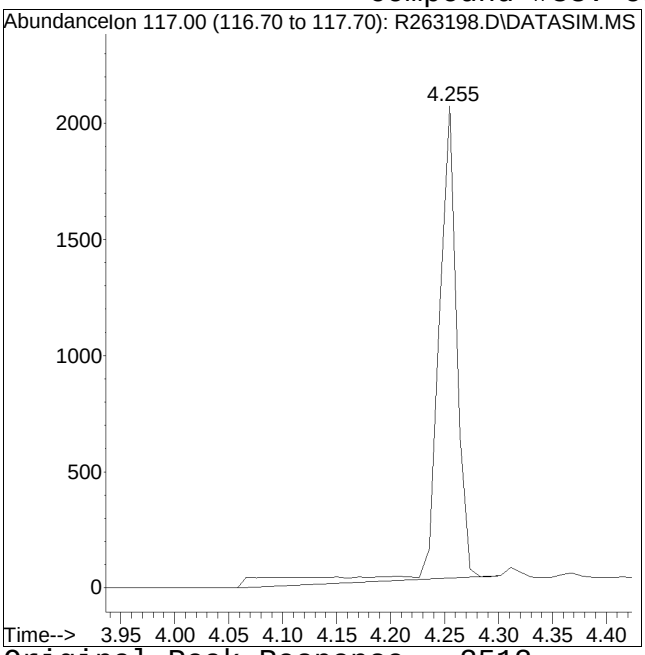
Manual Peak Response = 57 M6

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

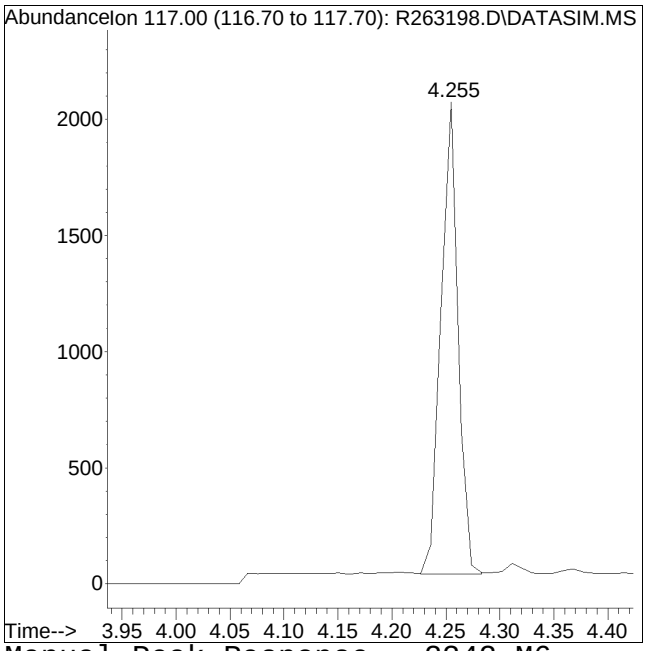
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263198.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 1:30 am Instrument : Airlab26
Sample : L2522632-01,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #38: carbon tetrachloride



Original Peak Response = 2512



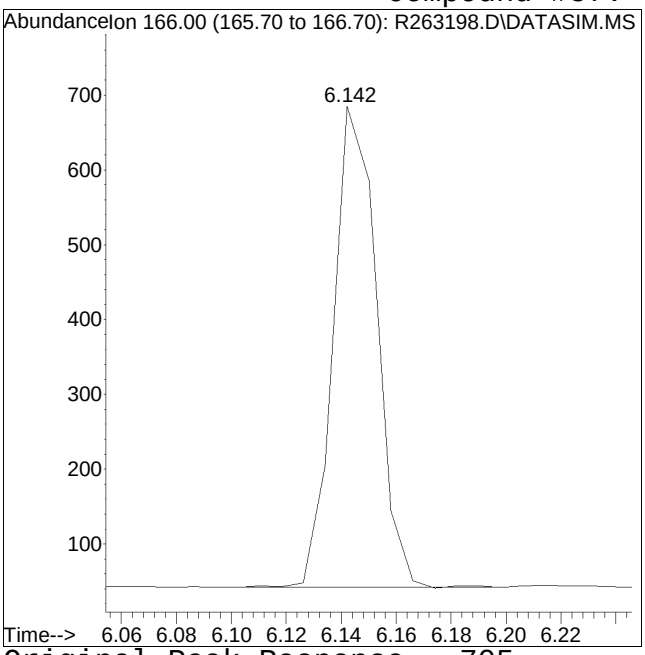
Manual Peak Response = 2242 M6

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

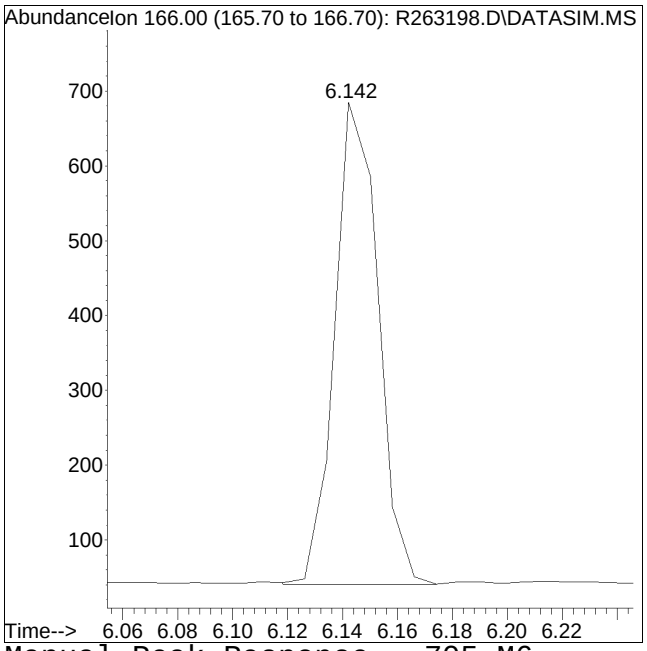
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263198.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 1:30 am Instrument : Airlab26
Sample : L2522632-01,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #57: tetrachloroethene



Original Peak Response = 705



Manual Peak Response = 705 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\04\0422SIM\
Data File : R263199.D
Acq On : 23 Apr 2025 02:03 am
Operator : AIRLAB26:KJD
Sample : L2522632-02,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 07:16:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : 7-NY-SIM - .

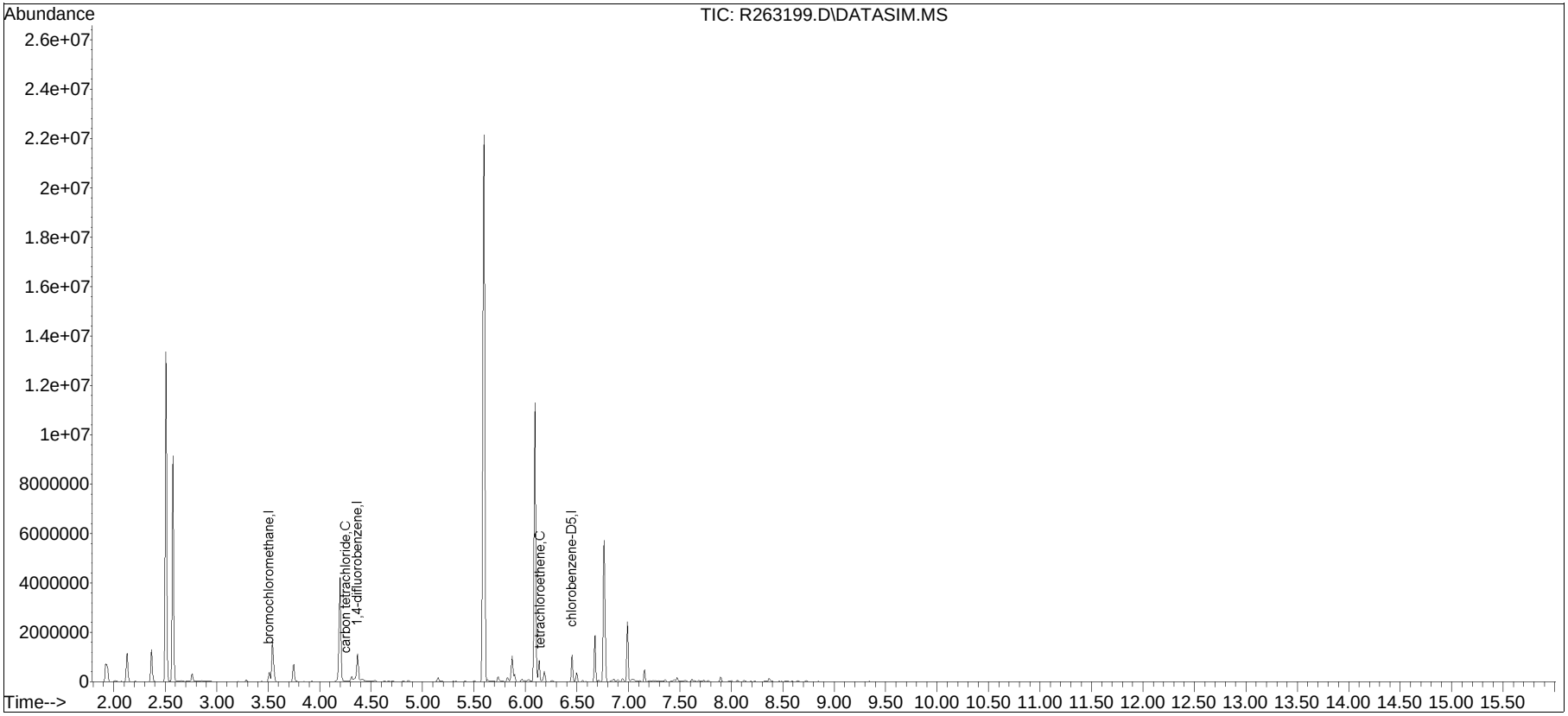
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.510	49	174203	10.000	ppbV	0.00
Standard Area = 177350			Recovery =		98.23%	
33) 1,4-difluorobenzene	4.368	114	723906	10.000	ppbV	0.00
Standard Area = 751175			Recovery =		96.37%	
51) chlorobenzene-D5	6.452	54	86933	10.000	ppbV	0.00
Standard Area = 87101			Recovery =		99.81%	
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	0.000		0	N.D.	d	
36) 1,1,1-trichloroethane	3.985		0	N.D.		
38) carbon tetrachloride	4.255	117	2207M6	0.069	ppbV	
44) trichloroethene	4.689		0	N.D.		
57) tetrachloroethene	6.142	166	733	0.022	ppbV #	39

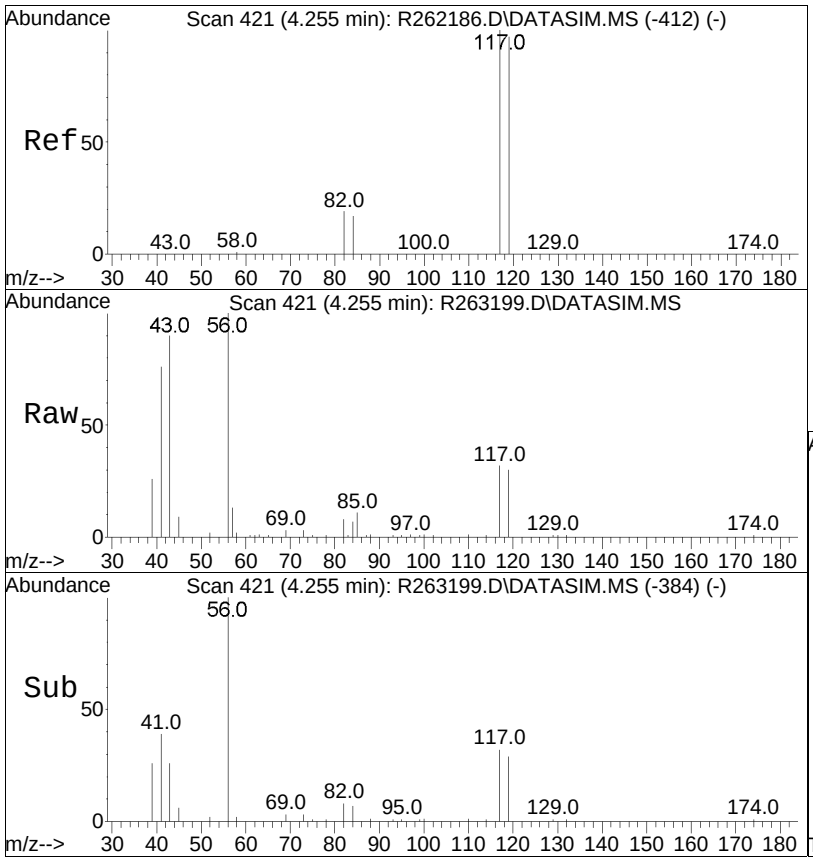
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .ta\Airlab26\2025\04\0422SIM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263199.D
Acq On : 23 Apr 2025 02:03 am
Operator : AIRLAB26:KJD
Sample : L2522632-02,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 15 Sample Multiplier: 1

Quant Time: Apr 23 07:16:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

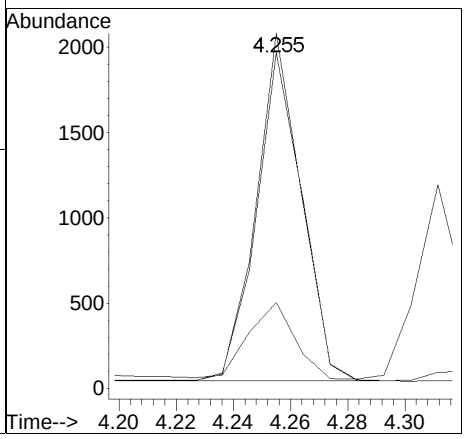


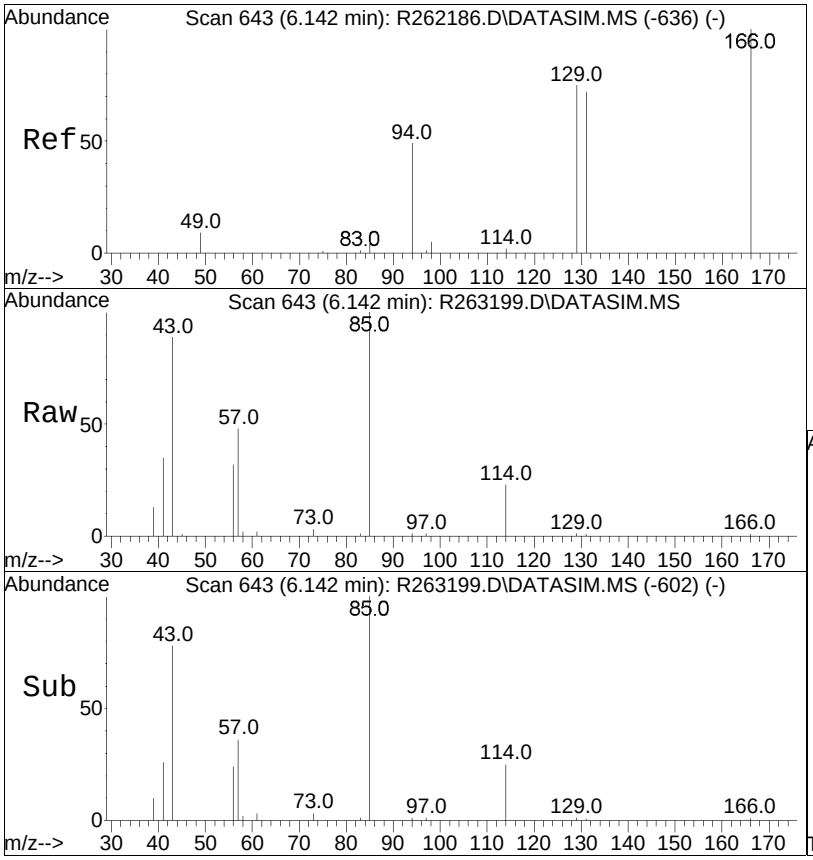


#38
carbon tetrachloride
Concen: 0.07 ppbV m
RT: 4.255 min Scan# 421
Delta R.T. 0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:117 Resp: 2207

Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.1	115.7
82	22.8	20.6	31.0

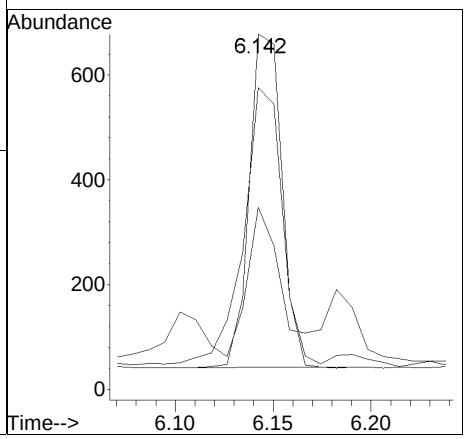




#57
tetrachloroethene
Concen: 0.02 ppbV
RT: 6.142 min Scan# 643
Delta R.T. -0.000 min
Lab File: R263199.D
Acq: 23 Apr 2025 02:03 am

Tgt Ion:166 Resp: 733

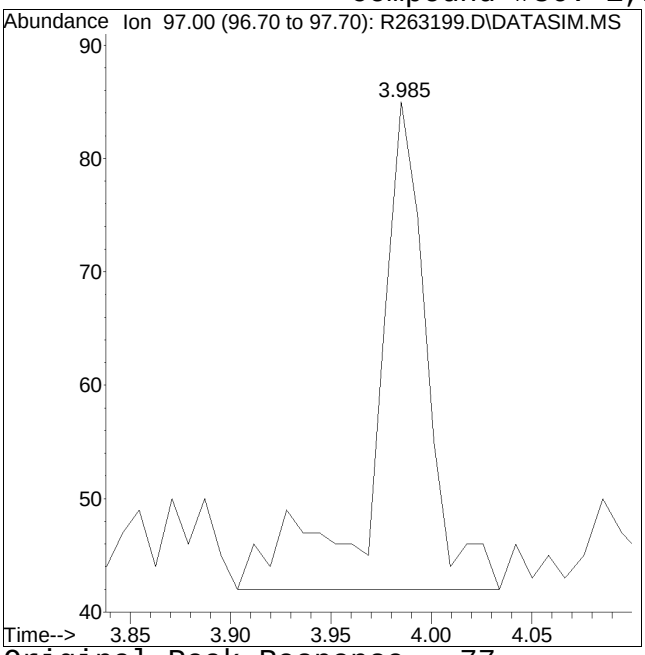
Ion	Ratio	Lower	Upper
166	100		
131	104.8	55.1	82.7#
94	89.5	28.0	42.0#



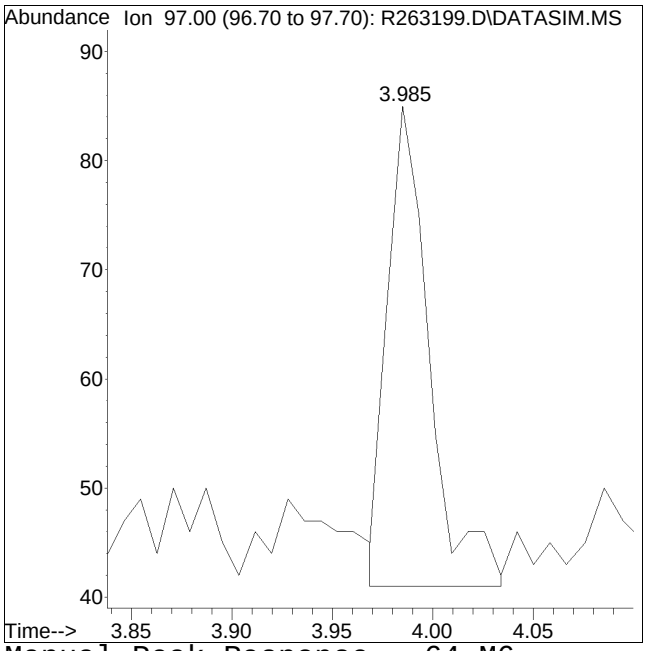
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263199.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 2:03 am Instrument : Airlab26
Sample : L2522632-02,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 77



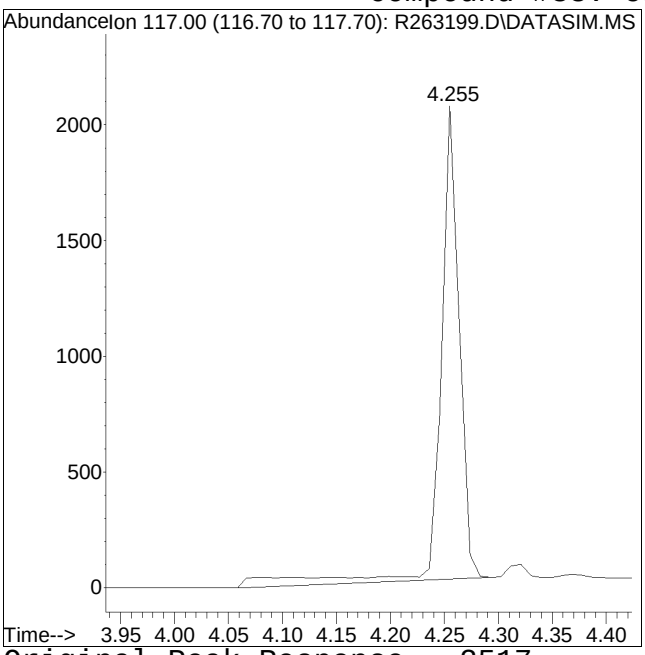
Manual Peak Response = 64 M6

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

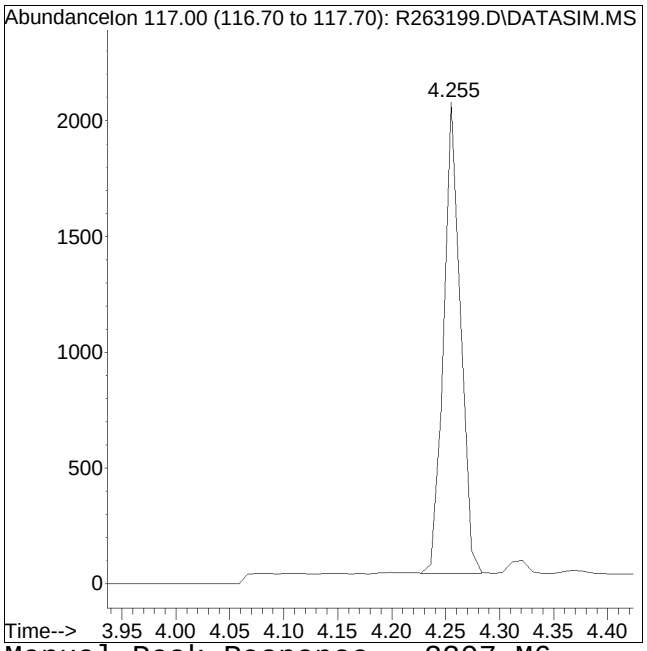
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263199.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 2:03 am Instrument : Airlab26
Sample : L2522632-02,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #38: carbon tetrachloride



Original Peak Response = 2517



Manual Peak Response = 2207 M6

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

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2522632
Project Name	: 458 E 99TH ST	**Project Number**	: 4078.0001Y000
Instrument ID	: AIRLAB26	**Ical Ref**	: ICAL22174
Calibration dates	: 04/03/25 01:01 04/03/25 06:04		

Calibration Files

0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D

5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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				0.628	0.601	0.627	0.519	0.520	0.506	0.500	0.557	10.47
3)		dichlorodifluoromethane				2.408	2.468	2.486	2.096	2.092	2.029	1.980	2.223	9.95
4)	C	chloromethane				0.686	0.697	0.703	0.591	0.588	0.583	0.575	0.632	9.44
5)		Freon-114		2.415	2.371	2.506	2.570	2.593	2.180	2.178	2.107	2.026	2.327	9.04
6)	C	vinyl chloride	0.886	0.824	0.843	0.899	0.911	0.911	0.764	0.770	0.752	0.742	0.830	8.33
7)	C	1,3-butadiene	0.560	0.515	0.534	0.565	0.591	0.589	0.497	0.499	0.488	0.487	0.533	7.68
8)	C	bromomethane	0.970	0.938	0.863	0.921	0.923	0.927	0.786	0.794	0.783	0.780	0.869	8.73
9)	C	chloroethane			0.475	0.485	0.497	0.496	0.421	0.423	0.417	0.418	0.454	8.16
10)		ethanol					0.434	0.381	0.299	0.287	0.294	0.282	0.330	19.03
11)	C	vinyl bromide				0.918	0.954	0.971	0.815	0.826	0.808	0.804	0.871	8.47
12)	C	acrolein		0.394	0.361	0.384	0.374	0.385	0.312	0.320	0.324	0.323	0.353	9.30
13)		acetone				0.950	0.931	0.929	0.761	0.763	0.737	0.692	0.823	13.25
14)		trichlorofluoromethane		2.132	2.097	2.166	2.229	2.244	1.891	1.907	1.861	1.816	2.038	8.27
15)		isopropyl alcohol				1.200	1.105	1.026	0.861	0.814	0.882	0.850	0.963	15.42
16)	C	acrylonitrile				0.592	0.621	0.625	0.513	0.537	0.509	0.529	0.561	9.02
17)	C	1,1-dichloroethene	1.172	1.108	1.132	1.186	1.236	1.236	1.040	1.053	1.027	1.010	1.120	7.64
18)		tertiary butyl alcohol					1.684	1.501	1.371	1.231	1.425	1.396	1.435	10.50
19)	C	methylene chloride					0.783	0.774	0.644	0.649	0.634	0.627	0.685	10.62
20)	C	3-chloropropene				0.719	0.702	0.719	0.613	0.622	0.603	0.603	0.654	8.48
21)	C	carbon disulfide				2.301	2.379	2.427	2.037	2.064	1.985	1.911	2.158	9.58
22)		Freon 113	1.843	1.857	1.821	1.886	1.921	1.942	1.642	1.655	1.614	1.563	1.774	7.92
23)		trans-1,2-dichloroethene	1.036	1.056	1.025	1.050	1.090	1.098	0.938	0.956	0.933	0.922	1.010	6.63
24)	C	1,1-dichloroethane	1.469	1.381	1.349	1.465	1.462	1.472	1.248	1.267	1.244	1.226	1.358	7.71
25)	C	MTBE	2.137	2.181	2.081	2.168	2.195	2.221	1.891	1.921	1.872	1.834	2.050	7.46
26)	C	vinyl acetate					1.539	1.589	1.270	1.326	1.348	1.357	1.405	9.12
27)	C	2-butanone				1.531	1.660	1.773	1.565	1.554	1.516	1.558	1.594	5.74
28)		cis-1,2-dichloroethene	1.224	1.186	1.143	1.206	1.237	1.247	1.064	1.086	1.065	1.055	1.151	6.76
29)		Ethyl Acetate					0.370	0.284	0.272	0.271	0.254	0.274	0.288	14.41
30)	C	chloroform	1.963	1.986	1.930	2.053	2.100	2.097	1.767	1.793	1.756	1.718	1.916	7.66
31)		Tetrahydrofuran				0.653	0.652	0.684	0.598	0.700	0.607	0.618	0.644	6.01
32)	C	1,2-dichloroethane	1.111	1.097	1.071	1.271	1.192	1.199	1.000	1.019	0.997	0.992	1.095	8.99
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.320	0.322	0.319	0.249	0.250	0.243	0.239	0.277	14.50
35)	s	1,2-dichloroethane-D4				0.228	0.225	0.230	0.231	0.236	0.244	0.226	0.231	2.79
36)	C	1,1,1-trichloroethane	0.495	0.468	0.465	0.476	0.487	0.487	0.421	0.432	0.418	0.412	0.456	7.02

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22174**
Calibration dates	**: 04/03/25 01:01 04/03/25 06:04**		

Calibration Files

0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D

5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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		0.696	0.699	0.732	0.756	0.751	0.631	0.643	0.626	0.617	0.683	8.13
38)	C	carbon tetrachloride	0.461	0.443	0.437	0.462	0.484	0.480	0.417	0.426	0.417	0.413	0.444	5.96
39)		cyclohexane				0.295	0.309	0.306	0.250	0.258	0.252	0.251	0.274	9.97
40)		Dibromomethane		0.296	0.281	0.288	0.286	0.289	0.247	0.249	0.244	0.244	0.269	8.35
41)	C	1,2-dichloropropane	0.236	0.235	0.229	0.242	0.249	0.249	0.216	0.217	0.213	0.213	0.230	6.24
42)		bromodichloromethane	0.429	0.442	0.439	0.463	0.477	0.476	0.416	0.431	0.418	0.416	0.441	5.39
43)	C	1,4-dioxane			0.131	0.168	0.168	0.158	0.140	0.143	0.145	0.144	0.150	9.07
44)	C	trichloroethene	0.360	0.339	0.346	0.369	0.379	0.387	0.329	0.335	0.320	0.321	0.349	6.92
45)	C	2,2,4-trimethylpentane				0.919	0.946	0.946	0.791	0.806	0.753	0.734	0.842	10.95
46)		heptane				0.290	0.295	0.294	0.253	0.255	0.248	0.242	0.268	8.77
47)	C	cis-1,3-dichloropropene	0.354	0.359	0.366	0.379	0.393	0.393	0.343	0.358	0.347	0.353	0.365	4.97
48)	C	4-methyl-2-pentanone					0.382	0.388	0.343	0.347	0.329	0.331	0.353	7.21
49)		trans-1,3-dichloropropene	0.281	0.289	0.264	0.290	0.304	0.315	0.276	0.285	0.283	0.285	0.287	4.94
50)	C	1,1,2-trichloroethane	0.336	0.316	0.315	0.318	0.332	0.338	0.292	0.297	0.287	0.285	0.311	6.57
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			8.179	8.415	8.342	8.283	7.090	7.165	6.962	6.548	7.623	9.89
53)	s	toluene-D8				6.760	6.630	6.652	6.686	6.706	6.676	6.576	6.669	0.87
54)		2-hexanone				2.594	3.103	3.185	2.869	2.966	2.851	2.786	2.908	6.83
55)		dibromochloromethane	4.085	3.975	4.066	4.263	4.459	4.503	4.021	4.221	4.069	4.064	4.173	4.41
56)	C	1,2-dibromoethane	4.921	4.101	4.148	4.288	4.486	4.565	3.961	4.062	3.928	3.814	4.227	8.06
57)	C	tetrachloroethene	3.919	3.819	4.015	4.310	4.269	4.323	3.687	3.678	3.583	3.468	3.907	8.02
58)		1,1,1,2-tetrachloroethane	3.213	3.143	3.154	3.323	3.445	3.495	3.070	3.121	3.110	3.029	3.210	4.95
59)	C	chlorobenzene	6.647	6.673	6.649	6.970	7.092	7.077	6.156	6.191	5.970	5.676	6.510	7.51
60)	C	ethylbenzene	1.021	0.979	0.978	1.043	1.071	1.065	0.922	0.934	0.907	0.840	0.976	7.74
61)	C	m+p-xylene	8.219	8.008	8.163	8.320	8.733	8.802	7.404	7.388	7.001	6.379	7.842	9.93
62)	C	bromoform	3.531	3.515	3.828	3.941	4.040	4.156	3.817	3.989	3.941	3.868	3.863	5.32
63)	C	styrene	5.230	5.518	5.570	6.183	6.445	6.545	5.881	6.025	5.847	5.668	5.891	7.09
64)	C	1,1,2,2-tetrachloroethane	5.262	5.447	5.507	5.901	6.115	6.152	5.326	5.388	5.267	5.038	5.540	6.91
65)	C	o-xylene	7.787	7.752	7.865	8.225	8.364	8.386	7.085	7.172	6.899	6.494	7.603	8.64
66)		1,2,3-Trichloropropane	3.997	4.032	4.093	4.188	4.350	4.368	3.742	3.777	3.731	3.668	3.995	6.47
67)	s	bromofluorobenzene				4.345	4.313	4.325	4.401	4.331	4.347	4.342	4.343	0.65
68)	C	isopropylbenzene				1.178	1.252	1.246	1.037	1.053	0.985	0.900	1.093	12.37
69)		Bromobenzene	4.237	4.432	4.409	5.283	5.384	4.934	4.315	4.300	4.215	4.265	4.577	9.81
70)		4-ethyl toluene	0.970	1.010	1.049	1.087	1.152	1.146	1.025	1.020	0.981	0.913	1.035	7.32
71)		1,3,5-trimethylbenzene	8.452	9.183	9.333	9.371	9.860	9.743	8.325	8.369	8.139	7.556	8.833	8.67
72)		tert-butylbenzene				1.075	1.105	1.104	0.952	0.969	0.922	0.842	0.996	10.18

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2522632**
Project Name	**: 458 E 99TH ST**	**Project Number**	**: 4078.0001Y000**
Instrument ID	**: AIRLAB26**	**Ical Ref**	**: ICAL22174**
Calibration dates	**: 04/03/25 01:01 04/03/25 06:04**		

Calibration Files

0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D

5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.D

	Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)	1,2,4-trimethylbenzene	0.931	0.913	0.947	0.949	0.996	1.019	0.886	0.886	0.848	0.771	0.915	7.88
74) C	Benzyl Chloride			5.725	6.048	6.742	7.139	6.933	7.425	7.323	7.224	6.820	9.10
75)	1,3-dichlorobenzene	6.499	6.531	6.905	7.067	7.568	7.659	6.765	6.919	6.630	6.552	6.910	6.02
76) C	1,4-dichlorobenzene	6.638	6.964	7.409	7.474	7.665	7.719	6.782	6.973	6.856	6.489	7.097	6.16
77)	sec-butylbenzene				1.466	1.516	1.500	1.274	1.294	1.233	1.119	1.343	11.33
78)	p-isopropyltoluene				1.202	1.214	1.288	1.120	1.130	1.084	0.881	1.131	11.50
79)	1,2-dichlorobenzene	6.421	6.660	6.878	7.107	7.450	7.534	6.559	6.809	6.508	6.217	6.814	6.39
80)	n-butylbenzene				1.082	1.145	1.144	1.031	1.031	0.996	0.924	1.050	7.61
81)	1,2-dibromo-3-chloropr...	2.622	2.320	2.428	2.473	2.643	2.693	2.539	2.644	2.656	2.724	2.574	5.06
82) C	1,2,4-trichlorobenzene		4.485	5.071	5.605	6.367	7.057	6.119	6.500	6.467	6.529	6.022	13.54
83)	naphthalene		1.233	1.250	1.322	1.541	1.803	1.433	1.509	1.495	1.333	1.435	12.41
84)	1,2,3-trichlorobenzene		4.896	5.028	5.002	5.596	6.473	7.068	7.040	6.548	6.547	6.022	14.81
85) C	hexachlorobutadiene		4.482	4.325	4.643	5.518	5.731	4.948	4.967	4.816	4.709	4.904	9.39

Response Factor Report Airlab26

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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				0.628	0.601	0.627	0.519	0.520	0.506	0.500	0.557	10.47
3)		dichlorodifluo...				2.408	2.468	2.486	2.096	2.092	2.029	1.980	2.223	9.95
4)	C	chloromethane				0.686	0.697	0.703	0.591	0.588	0.583	0.575	0.632	9.44
5)		Freon-114		2.415	2.371	2.506	2.570	2.593	2.180	2.178	2.107	2.026	2.327	9.04
6)	C	vinyl chloride	0.886	0.824	0.843	0.899	0.911	0.911	0.764	0.770	0.752	0.742	0.830	8.33
7)	C	1,3-butadiene	0.560	0.515	0.534	0.565	0.591	0.589	0.497	0.499	0.488	0.487	0.533	7.68
8)	C	bromomethane	0.970	0.938	0.863	0.921	0.923	0.927	0.786	0.794	0.783	0.780	0.869	8.73
9)	C	chloroethane			0.475	0.485	0.497	0.496	0.421	0.423	0.417	0.418	0.454	8.16
10)		ethanol					0.434	0.381	0.299	0.287	0.294	0.282	0.330	19.03
11)	C	vinyl bromide				0.918	0.954	0.971	0.815	0.826	0.808	0.804	0.871	8.47
12)	C	acrolein		0.394	0.361	0.384	0.374	0.385	0.312	0.320	0.324	0.323	0.353	9.30
13)		acetone				0.950	0.931	0.929	0.761	0.763	0.737	0.692	0.823	13.25
14)		trichlorofluor...		2.132	2.097	2.166	2.229	2.244	1.891	1.907	1.861	1.816	2.038	8.27
15)		isopropyl alcohol				1.200	1.105	1.026	0.861	0.814	0.882	0.850	0.963	15.42
16)	C	acrylonitrile				0.592	0.621	0.625	0.513	0.537	0.509	0.529	0.561	9.02

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17)	C	1,1-dichloroet...	1.172	1.108	1.132	1.186	1.236	1.236	1.040	1.053	1.027	1.010	1.120	7.64
18)		tertiary butyl...					1.684	1.501	1.371	1.231	1.425	1.396	1.435	10.50
19)	C	methylene chlo...					0.783	0.774	0.644	0.649	0.634	0.627	0.685	10.62
20)	C	3-chloropropene				0.719	0.702	0.719	0.613	0.622	0.603	0.603	0.654	8.48
21)	C	carbon disulfide				2.301	2.379	2.427	2.037	2.064	1.985	1.911	2.158	9.58
22)		Freon 113	1.843	1.857	1.821	1.886	1.921	1.942	1.642	1.655	1.614	1.563	1.774	7.92
23)		trans-1,2-dich...	1.036	1.056	1.025	1.050	1.090	1.098	0.938	0.956	0.933	0.922	1.010	6.63
24)	C	1,1-dichloroet...	1.469	1.381	1.349	1.465	1.462	1.472	1.248	1.267	1.244	1.226	1.358	7.71
25)	C	MTBE	2.137	2.181	2.081	2.168	2.195	2.221	1.891	1.921	1.872	1.834	2.050	7.46
26)	C	vinyl acetate					1.539	1.589	1.270	1.326	1.348	1.357	1.405	9.12
27)	C	2-butanone				1.531	1.660	1.773	1.565	1.554	1.516	1.558	1.594	5.74
28)		cis-1,2-dichlo...	1.224	1.186	1.143	1.206	1.237	1.247	1.064	1.086	1.065	1.055	1.151	6.76
29)		Ethyl Acetate					0.370	0.284	0.272	0.271	0.254	0.274	0.288	14.41
30)	C	chloroform	1.963	1.986	1.930	2.053	2.100	2.097	1.767	1.793	1.756	1.718	1.916	7.66
31)		Tetrahydrofuran				0.653	0.652	0.684	0.598	0.700	0.607	0.618	0.644	6.01
32)	C	1,2-dichloroet...	1.111	1.097	1.071	1.271	1.192	1.199	1.000	1.019	0.997	0.992	1.095	8.99

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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				0.320	0.322	0.319	0.249	0.250	0.243	0.239	0.277	14.50
35)	s	1,2-dichloroet...				0.228	0.225	0.230	0.231	0.236	0.244	0.226	0.231	2.79
36)	C	1,1,1-trichlor...	0.495	0.468	0.465	0.476	0.487	0.487	0.421	0.432	0.418	0.412	0.456	7.02
37)	C	benzene		0.696	0.699	0.732	0.756	0.751	0.631	0.643	0.626	0.617	0.683	8.13
38)	C	carbon tetrach...	0.461	0.443	0.437	0.462	0.484	0.480	0.417	0.426	0.417	0.413	0.444	5.96
39)		cyclohexane				0.295	0.309	0.306	0.250	0.258	0.252	0.251	0.274	9.97
40)		Dibromomethane		0.296	0.281	0.288	0.286	0.289	0.247	0.249	0.244	0.244	0.269	8.35
41)	C	1,2-dichloropr...	0.236	0.235	0.229	0.242	0.249	0.249	0.216	0.217	0.213	0.213	0.230	6.24
42)		bromodichlorom...	0.429	0.442	0.439	0.463	0.477	0.476	0.416	0.431	0.418	0.416	0.441	5.39
43)	C	1,4-dioxane			0.131	0.168	0.168	0.158	0.140	0.143	0.145	0.144	0.150	9.07
44)	C	trichloroethene	0.360	0.339	0.346	0.369	0.379	0.387	0.329	0.335	0.320	0.321	0.349	6.92
45)	C	2,2,4-trimethy...				0.919	0.946	0.946	0.791	0.806	0.753	0.734	0.842	10.95
46)		heptane				0.290	0.295	0.294	0.253	0.255	0.248	0.242	0.268	8.77
47)	C	cis-1,3-dichlo...	0.354	0.359	0.366	0.379	0.393	0.393	0.343	0.358	0.347	0.353	0.365	4.97
48)	C	4-methyl-2-pen...					0.382	0.388	0.343	0.347	0.329	0.331	0.353	7.21

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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...	0.281	0.289	0.264	0.290	0.304	0.315	0.276	0.285	0.283	0.285	0.287	4.94
50)	C	1,1,2-trichlor...	0.336	0.316	0.315	0.318	0.332	0.338	0.292	0.297	0.287	0.285	0.311	6.57
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			8.179	8.415	8.342	8.283	7.090	7.165	6.962	6.548	7.623	9.89
53)	s	toluene-D8				6.760	6.630	6.652	6.686	6.706	6.676	6.576	6.669	0.87
54)		2-hexanone				2.594	3.103	3.185	2.869	2.966	2.851	2.786	2.908	6.83
55)		dibromochlorom...	4.085	3.975	4.066	4.263	4.459	4.503	4.021	4.221	4.069	4.064	4.173	4.41
56)	C	1,2-dibromoethane	4.921	4.101	4.148	4.288	4.486	4.565	3.961	4.062	3.928	3.814	4.227	8.06
57)	C	tetrachloroethene	3.919	3.819	4.015	4.310	4.269	4.323	3.687	3.678	3.583	3.468	3.907	8.02
58)		1,1,1,2-tetrac...	3.213	3.143	3.154	3.323	3.445	3.495	3.070	3.121	3.110	3.029	3.210	4.95
59)	C	chlorobenzene	6.647	6.673	6.649	6.970	7.092	7.077	6.156	6.191	5.970	5.676	6.510	7.51
60)	C	ethylbenzene	1.021	0.979	0.978	1.043	1.071	1.065	0.922	0.934	0.907	0.840	0.976	7.74
61)	C	m+p-xylene	8.219	8.008	8.163	8.320	8.733	8.802	7.404	7.388	7.001	6.379	7.842	9.93
62)	C	bromoform	3.531	3.515	3.828	3.941	4.040	4.156	3.817	3.989	3.941	3.868	3.863	5.32
63)	C	styrene	5.230	5.518	5.570	6.183	6.445	6.545	5.881	6.025	5.847	5.668	5.891	7.09
64)	C	1,1,2,2-tetrac...	5.262	5.447	5.507	5.901	6.115	6.152	5.326	5.388	5.267	5.038	5.540	6.91

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
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Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.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	7.787	7.752	7.865	8.225	8.364	8.386	7.085	7.172	6.899	6.494	7.603	8.64
66)		1,2,3-Trichlor...	3.997	4.032	4.093	4.188	4.350	4.368	3.742	3.777	3.731	3.668	3.995	6.47
67)	s	bromofluoroben...				4.345	4.313	4.325	4.401	4.331	4.347	4.342	4.343	0.65
68)	C	isopropylbenzene				1.178	1.252	1.246	1.037	1.053	0.985	0.900	1.093	12.37
69)		Bromobenzene	4.237	4.432	4.409	5.283	5.384	4.934	4.315	4.300	4.215	4.265	4.577	9.81
70)		4-ethyl toluene	0.970	1.010	1.049	1.087	1.152	1.146	1.025	1.020	0.981	0.913	1.035	7.32
71)		1,3,5-trimethy...	8.452	9.183	9.333	9.371	9.860	9.743	8.325	8.369	8.139	7.556	8.833	8.67
72)		tert-butylbenzene				1.075	1.105	1.104	0.952	0.969	0.922	0.842	0.996	10.18
73)		1,2,4-trimethy...	0.931	0.913	0.947	0.949	0.996	1.019	0.886	0.886	0.848	0.771	0.915	7.88
74)	C	Benzyl Chloride			5.725	6.048	6.742	7.139	6.933	7.425	7.323	7.224	6.820	9.10
75)		1,3-dichlorobe...	6.499	6.531	6.905	7.067	7.568	7.659	6.765	6.919	6.630	6.552	6.910	6.02
76)	C	1,4-dichlorobe...	6.638	6.964	7.409	7.474	7.665	7.719	6.782	6.973	6.856	6.489	7.097	6.16
77)		sec-butylbenzene				1.466	1.516	1.500	1.274	1.294	1.233	1.119	1.343	11.33
78)		p-isopropyltol...				1.202	1.214	1.288	1.120	1.130	1.084	0.881	1.131	11.50
79)		1,2-dichlorobe...	6.421	6.660	6.878	7.107	7.450	7.534	6.559	6.809	6.508	6.217	6.814	6.39
80)		n-butylbenzene				1.082	1.145	1.144	1.031	1.031	0.996	0.924	1.050	7.61

Method Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Method File : TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025
Response Via : Initial Calibration

Calibration Files
0.02=R262654.D 0.05=R262655.D 0.1 =R262656.D 0.2 =R262657.D 0.5 =R262658.D 1.0 =R262659.D
5.0 =R262660.D 10.0=R262661.D 20.0=R262662.D 50.0=R262663.D

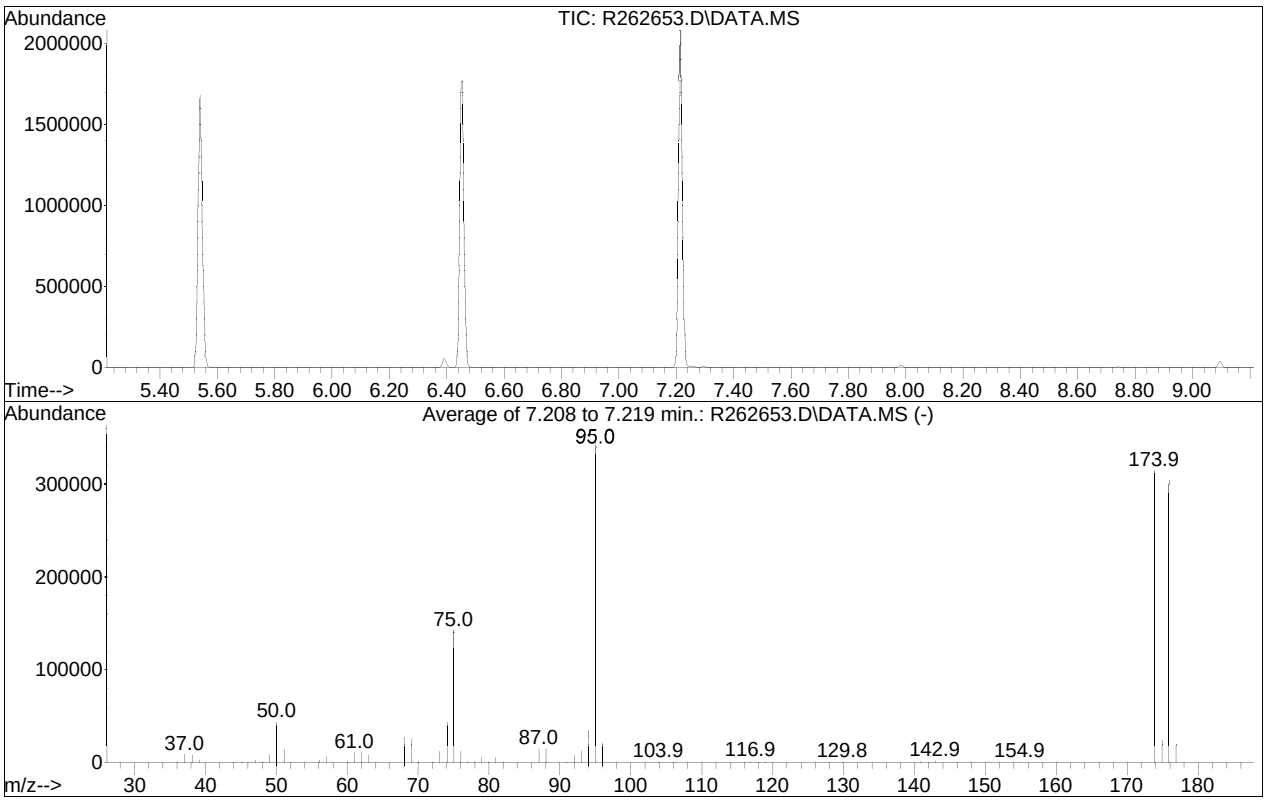
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)		1,2-dibromo-3-...	2.622	2.320	2.428	2.473	2.643	2.693	2.539	2.644	2.656	2.724	2.574	5.06
82)	C	1,2,4-trichlor...		4.485	5.071	5.605	6.367	7.057	6.119	6.500	6.467	6.529	6.022	13.54
83)		naphthalene		1.233	1.250	1.322	1.541	1.803	1.433	1.509	1.495	1.333	1.435	12.41
84)		1,2,3-trichlor...		4.896	5.028	5.002	5.596	6.473	7.068	7.040	6.548	6.547	6.022	14.81
85)	C	hexachlorobuta...		4.482	4.325	4.643	5.518	5.731	4.948	4.967	4.816	4.709	4.904	9.39

(#) = Out of Range

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262653.D
Acq On : 03 Apr 2025 12:31 am
Operator : AIRLAB26:JJT
Sample : WG2049330-1,3,250,250
Misc : WG2049330
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 2025



Spectrum Information: Average of 7.208 to 7.219 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.6	43683	PASS
75	95	30	66	41.2	142696	PASS
95	95	100	100	100.0	345984	PASS
96	95	5	9	6.5	22371	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	91.0	314752	PASS
175	174	4	9	7.8	24675	PASS
176	174	93	101	96.4	303424	PASS
177	176	5	9	6.7	20341	PASS

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262654.D
Acq On : 03 Apr 2025 01:01 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.02
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:02 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	220599	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 103.79%			
33) 1,4-difluorobenzene	4.368	114	944253	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 102.21%			
51) chlorobenzene-D5	6.452	54	108321	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 103.62%			
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	688	0.010	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.10%#			
67) bromofluorobenzene	7.222	95	1405	0.029	ppbV	0.01
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.29%#			
Target Compounds						Qvalue
2) propylene	2.004	41	243M4	0.021	ppbV	
3) dichlorodifluoromethane	2.021	85	993	0.021	ppbV	97
4) chloromethane	2.070	50	335M4	0.026	ppbV	
5) Freon-114	2.103	85	1057M4	0.022	ppbV	
6) vinyl chloride	2.142	62	391M4	0.023	ppbV	
7) 1,3-butadiene	2.186	54	247M4	0.023	ppbV	
8) bromomethane	2.268	94	428M4	0.025	ppbV	
9) chloroethane	2.323	64	230M4	0.025	ppbV	
10) ethanol	2.356	31	4773	0.723	ppbV	96
11) vinyl bromide	2.434	106	392M4	0.022	ppbV	
12) acrolein	2.468	56	217M4	0.032	ppbV	
13) acetone	2.502	43	2719	0.162	ppbV #	95
14) trichlorofluoromethane	2.547	101	935	0.022	ppbV	95
15) isopropyl alcohol	2.570	45	2321	0.122	ppbV	98
16) acrylonitrile	2.626	53	304M4	0.027	ppbV	
17) 1,1-dichloroethene	2.724	61	517M4	0.023	ppbV	
18) tertiary butyl alcohol	2.743	59	1092	0.036	ppbV #	1
19) methylene chloride	2.757	49	710M4	0.050	ppbV	
20) 3-chloropropene	2.796	41	319	0.024	ppbV #	87
21) carbon disulfide	2.843	76	1026	0.023	ppbV #	36
22) Freon 113	2.843	101	813	0.022	ppbV	96
23) trans-1,2-dichloroethene	3.055	61	457	0.022	ppbV #	71
24) 1,1-dichloroethane	3.126	63	648	0.024	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262654.D
Acq On : 03 Apr 2025 01:01 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.02
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:02 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	943	0.023	ppbV	#	18
26) vinyl acetate	3.193	43	592M4	0.021	ppbV		
27) 2-butanone	3.290	43	650	0.019	ppbV	#	82
28) cis-1,2-dichloroethene	3.443	61	540	0.023	ppbV		90
29) Ethyl Acetate	3.570	61	141M6	0.024	ppbV		
30) chloroform	3.563	83	866	0.022	ppbV	#	88
31) Tetrahydrofuran	3.757	42	239M6	0.018	ppbV		
32) 1,2-dichloroethane	3.863	62	490	0.022	ppbV	#	94
34) hexane	3.540	57	889	0.038	ppbV	#	57
36) 1,1,1-trichloroethane	3.977	97	935	0.024	ppbV	#	91
37) benzene	4.180	78	1397	0.023	ppbV	#	12
38) carbon tetrachloride	4.246	117	870	0.022	ppbV		93
39) cyclohexane	4.302	56	601M4	0.025	ppbV		
40) Dibromomethane	4.538	93	671	0.029	ppbV	#	96
41) 1,2-dichloropropane	4.566	63	446M4	0.022	ppbV		
42) bromodichloromethane	4.651	83	810M4	0.021	ppbV		
43) 1,4-dioxane	4.736	88	245M6	0.019	ppbV		
44) trichloroethene	4.679	130	680	0.022	ppbV	#	92
45) 2,2,4-trimethylpentane	4.717	57	1763	0.024	ppbV		94
46) heptane	4.858	43	548M4	0.023	ppbV		
47) cis-1,3-dichloropropene	5.113	75	669M4	0.021	ppbV		
48) 4-methyl-2-pentanone	5.177	43	595	0.018	ppbV		91
49) trans-1,3-dichloropropene	5.376	75	530	0.020	ppbV	#	85
50) 1,1,2-trichloroethane	5.448	97	635	0.023	ppbV		99
52) toluene	5.592	91	2058	0.027	ppbV		98
54) 2-hexanone	5.791	43	396M4	0.013	ppbV		
55) dibromochloromethane	5.783	129	885	0.020	ppbV		97
56) 1,2-dibromoethane	5.903	107	1066	0.025	ppbV		89
57) tetrachloroethene	6.142	166	849	0.021	ppbV		93
58) 1,1,1,2-tetrachloroethane	6.474	131	696	0.021	ppbV	#	99
59) chlorobenzene	6.474	112	1440	0.022	ppbV	#	1
60) ethylbenzene	6.676	91	2212	0.022	ppbV		98
61) m+p-xylene	6.769	91	3561	0.044	ppbV		97
62) bromoform	6.769	173	765M4	0.019	ppbV		
63) styrene	6.943	104	1133M6	0.018	ppbV		
64) 1,1,2,2-tetrachloroethane	6.989	83	1140	0.020	ppbV		99
65) o-xylene	6.995	91	1687	0.022	ppbV		97
66) 1,2,3-Trichloropropane	7.053	75	866	0.021	ppbV	#	97
68) isopropylbenzene	7.298	105	2602	0.023	ppbV		94
69) Bromobenzene	7.315	77	918M6	0.020	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262654.D
Acq On : 03 Apr 2025 01:01 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.02
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:02 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

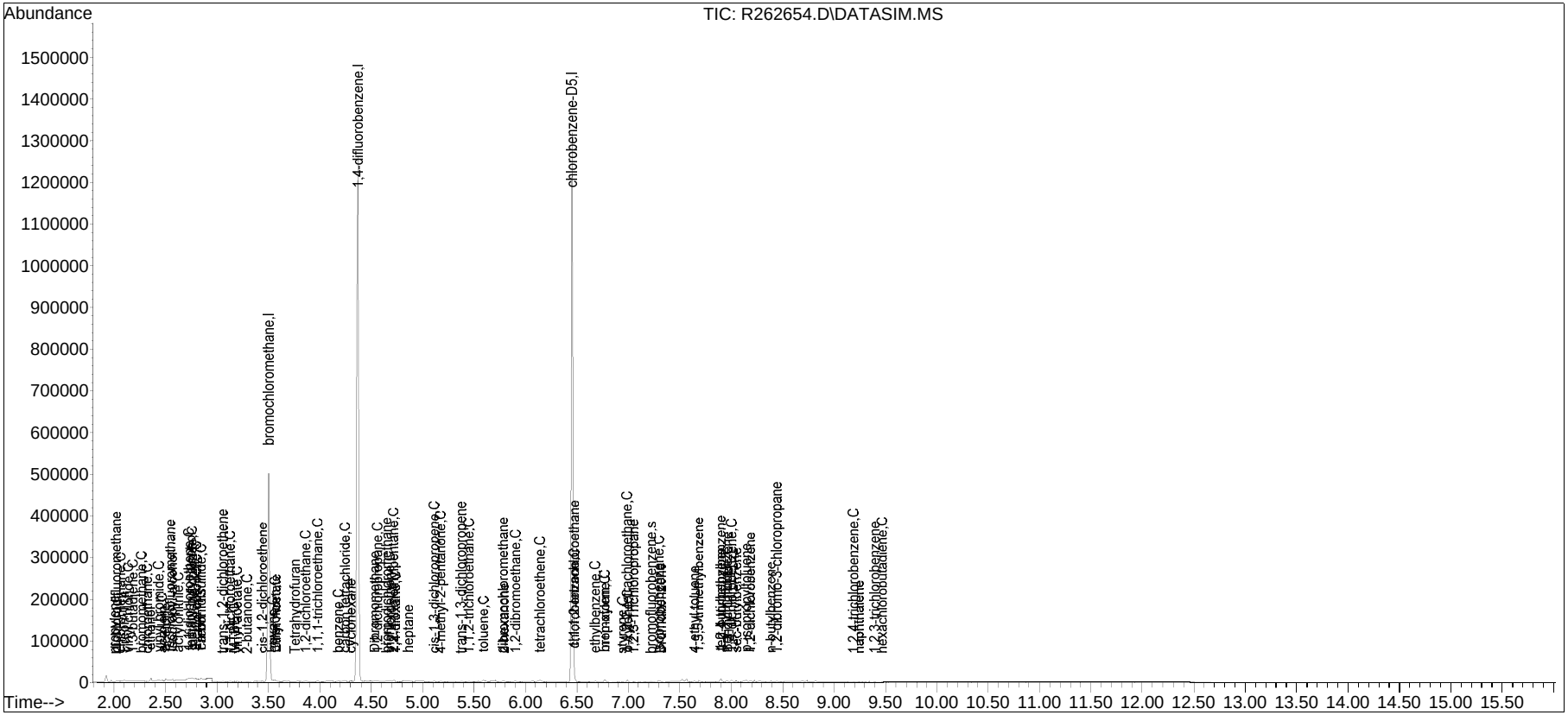
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.646	105	2101M4	0.019	ppbV	
71) 1,3,5-trimethylbenzene	7.686	105	1831M6	0.020	ppbV	
72) tert-butylbenzene	7.901	119	2263	0.022	ppbV	99
73) 1,2,4-trimethylbenzene	7.901	105	2016	0.021	ppbV	99
74) Benzyl Chloride	7.965	91	1067	0.014	ppbV	96
75) 1,3-dichlorobenzene	7.965	146	1408M6	0.019	ppbV	
76) 1,4-dichlorobenzene	8.005	146	1438M6	0.020	ppbV	
77) sec-butylbenzene	8.053	105	2848	0.021	ppbV	94
78) p-isopropyltoluene	8.149	119	2450M6	0.020	ppbV	
79) 1,2-dichlorobenzene	8.189	146	1391	0.020	ppbV	96
80) n-butylbenzene	8.388	91	2102	0.019	ppbV	99
81) 1,2-dibromo-3-chloropr...	8.444	75	568	0.021	ppbV #	91
82) 1,2,4-trichlorobenzene	9.192	180	908	0.014	ppbV	94
83) naphthalene	9.245	128	2481	0.016	ppbV	99
84) 1,2,3-trichlorobenzene	9.397	180	1030	0.013	ppbV	98
85) hexachlorobutadiene	9.467	225	908	0.017	ppbV	99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262654.D
Acq On : 03 Apr 2025 01:01 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.02
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

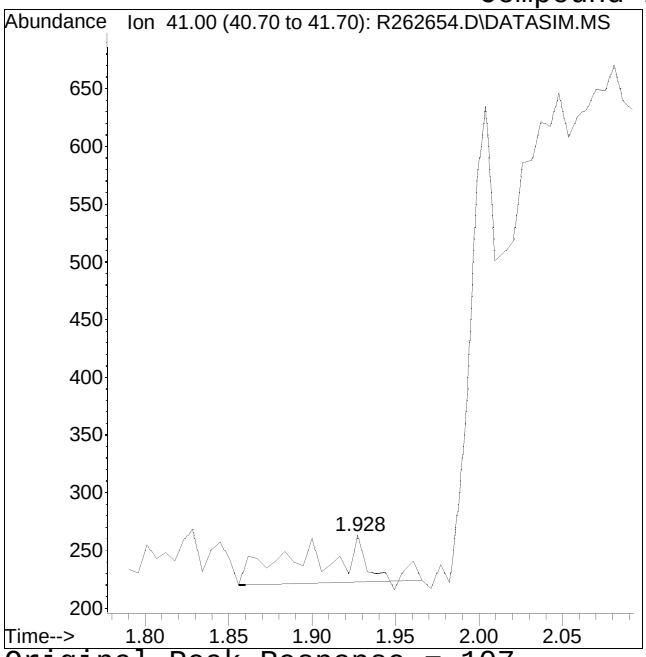
Quant Time: Apr 03 13:19:02 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration



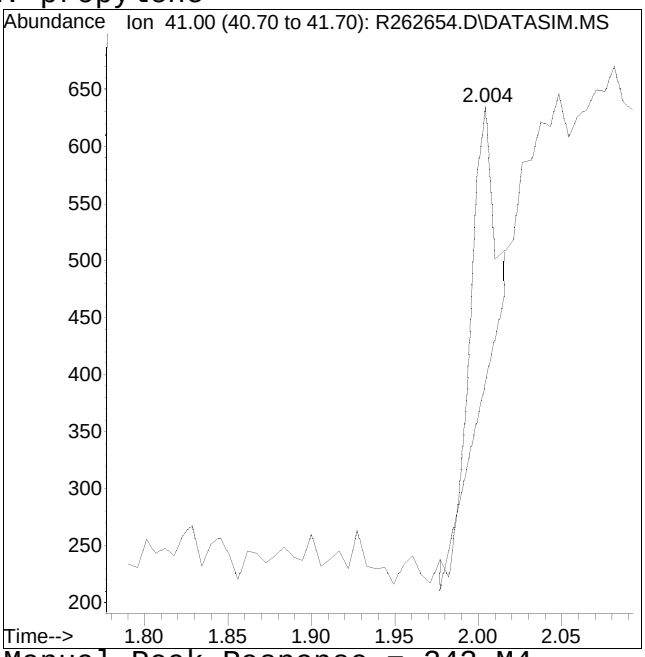
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #2: propylene



Original Peak Response = 107



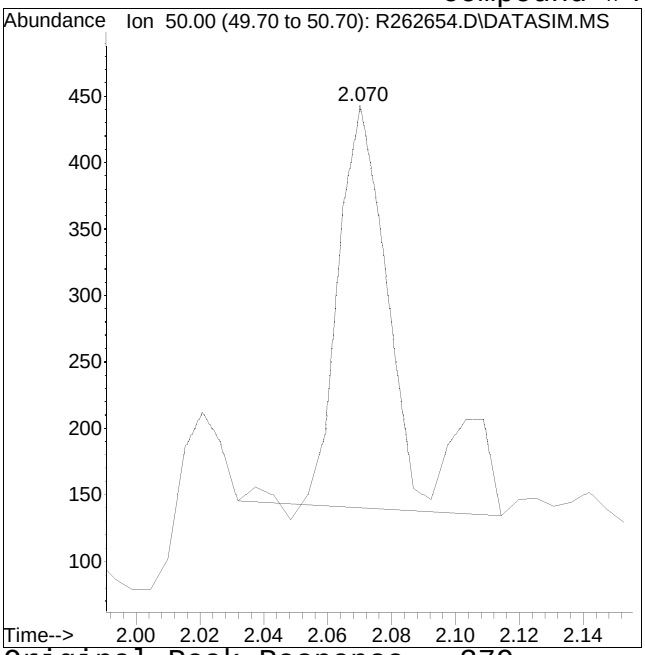
Manual Peak Response = 243 M4

M4 = Poor automated baseline construction.

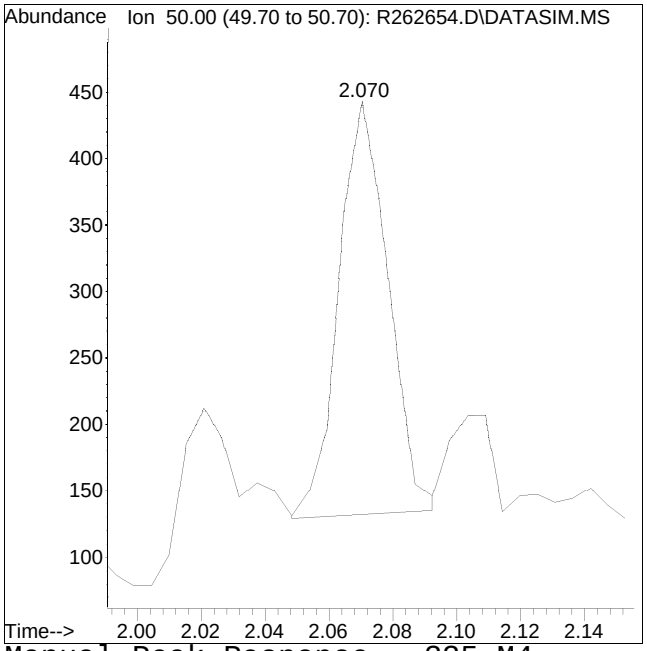
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 379



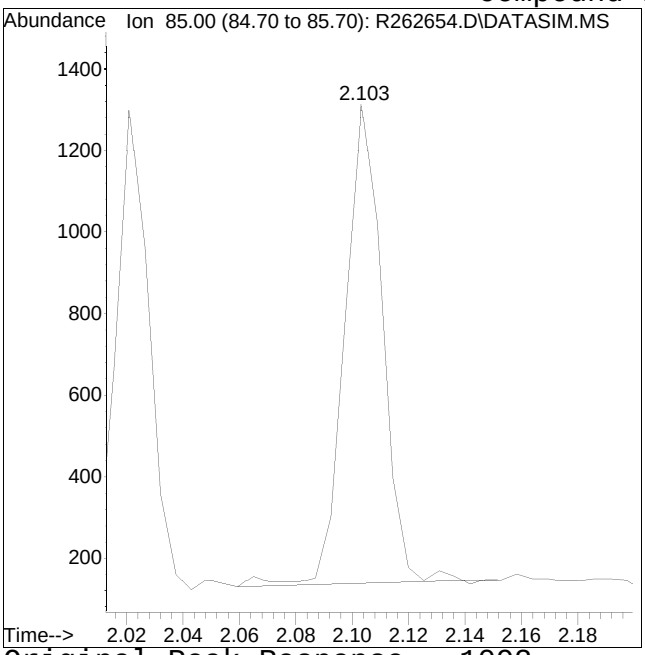
Manual Peak Response = 335 M4

M4 = Poor automated baseline construction.

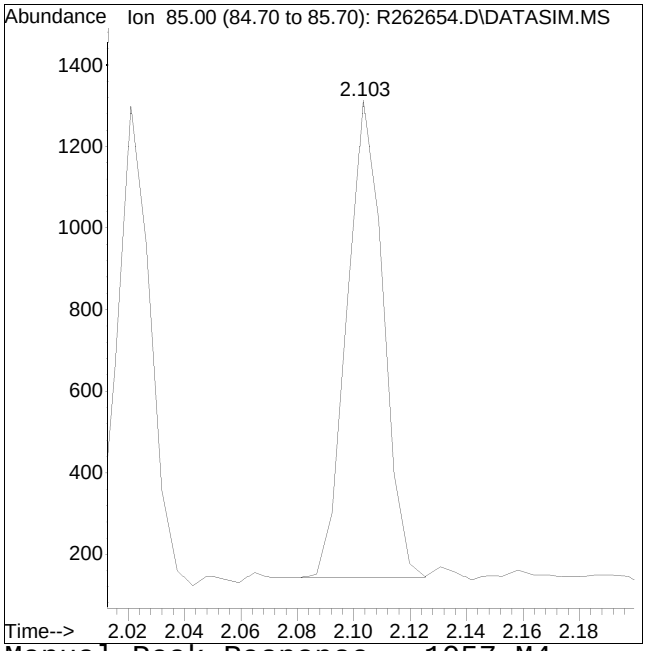
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #5: Freon-114



Original Peak Response = 1092



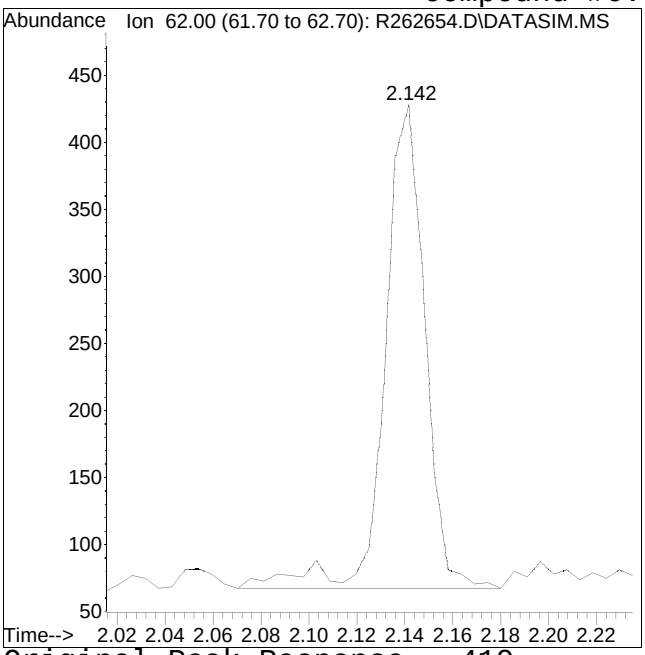
Manual Peak Response = 1057 M4

M4 = Poor automated baseline construction.

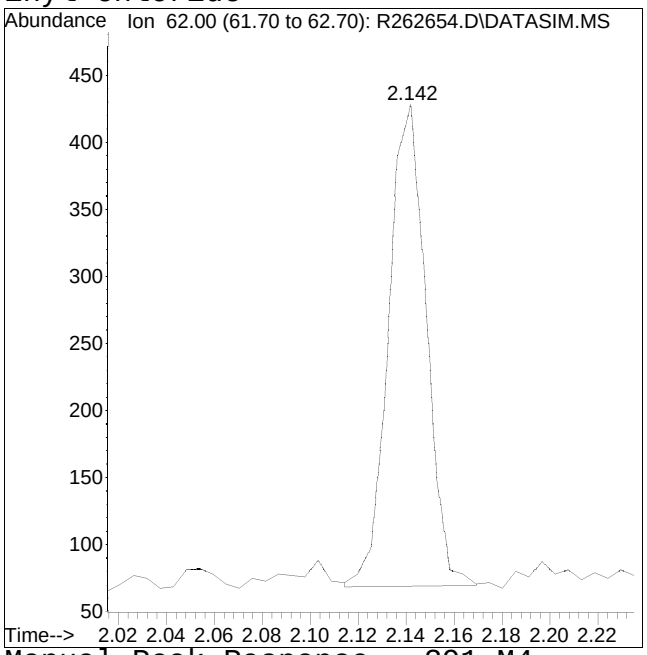
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #6: vinyl chloride



Original Peak Response = 419



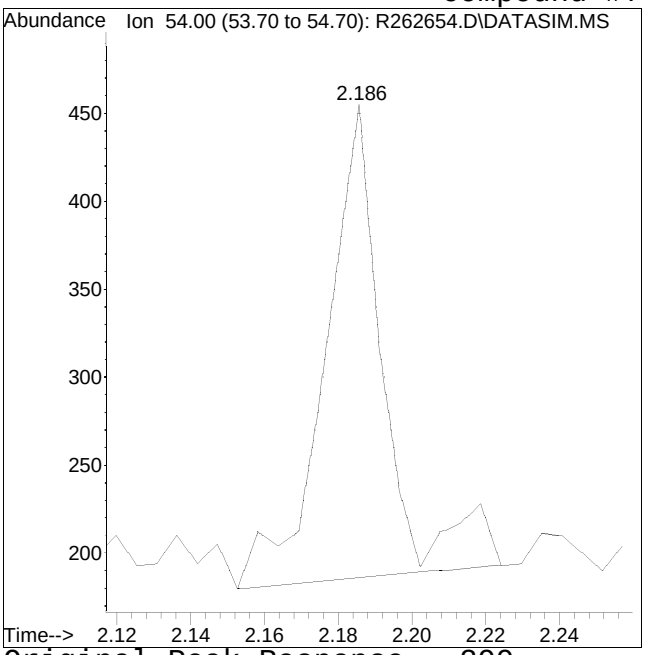
Manual Peak Response = 391 M4

M4 = Poor automated baseline construction.

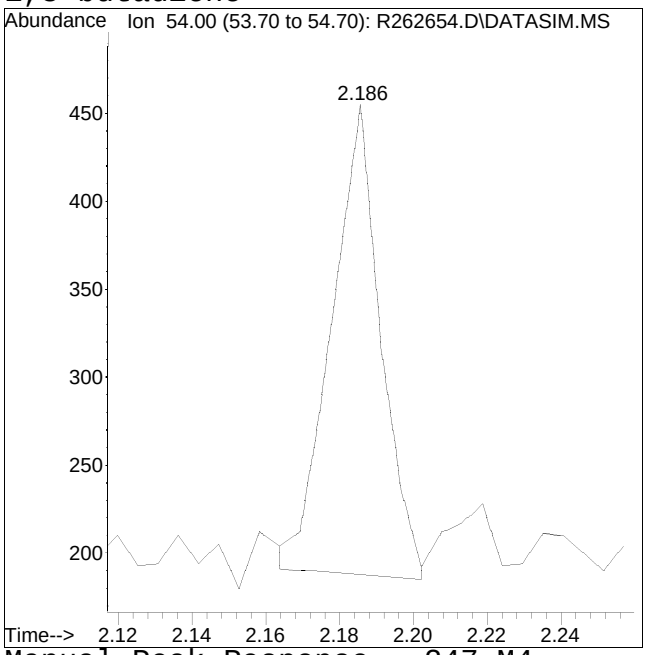
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #7: 1,3-butadiene



Original Peak Response = 299



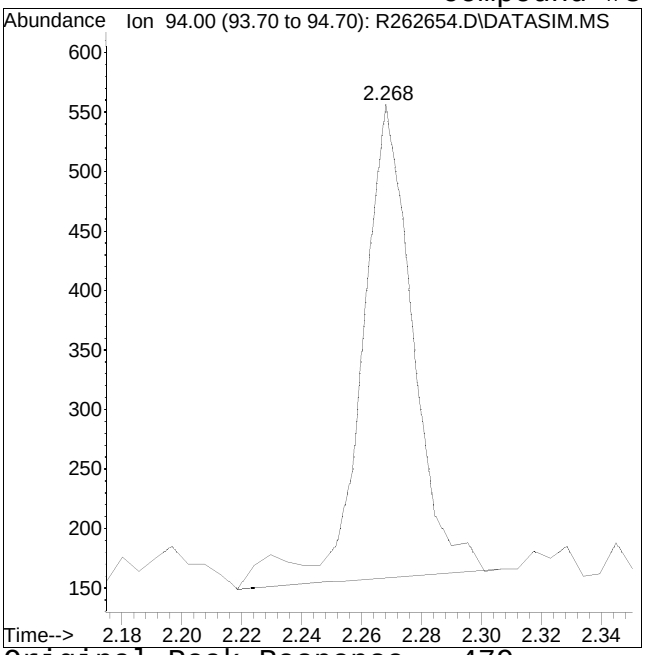
Manual Peak Response = 247 M4

M4 = Poor automated baseline construction.

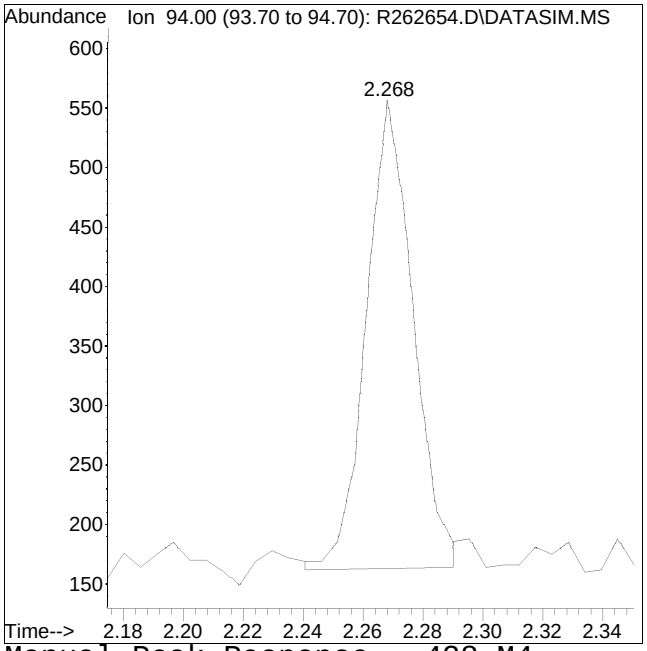
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #8: bromomethane



Original Peak Response = 479



Manual Peak Response = 428 M4

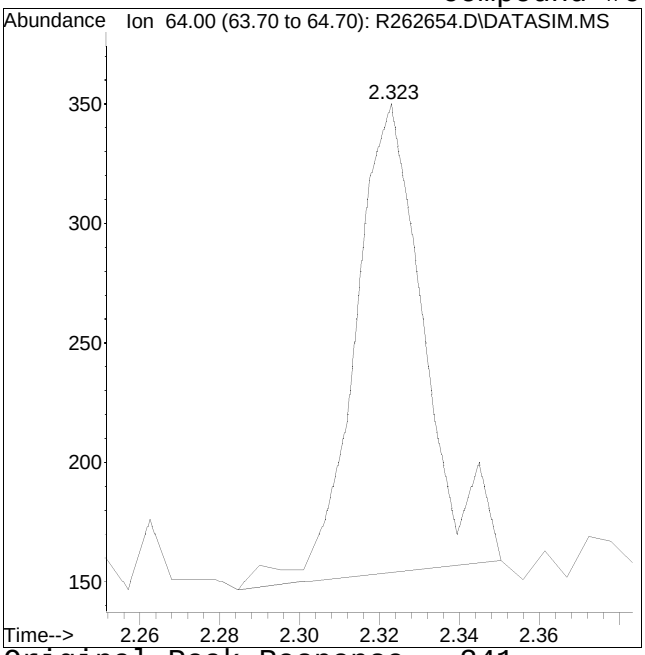
M4 = Poor automated baseline construction.

Manual Integration Report

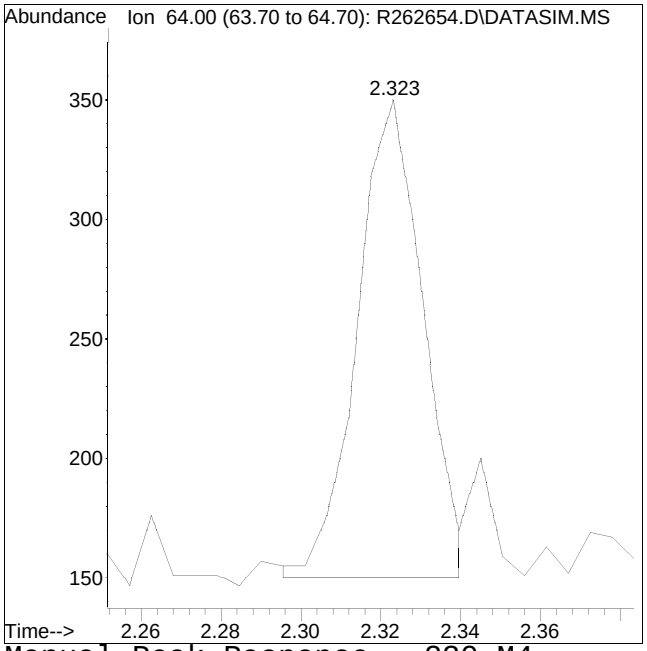
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262654.D
Date Inj'd : 4/3/2025 1:01 am
Sample : ITO15-SIMSTD0.02

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #9: chloroethane



Original Peak Response = 241



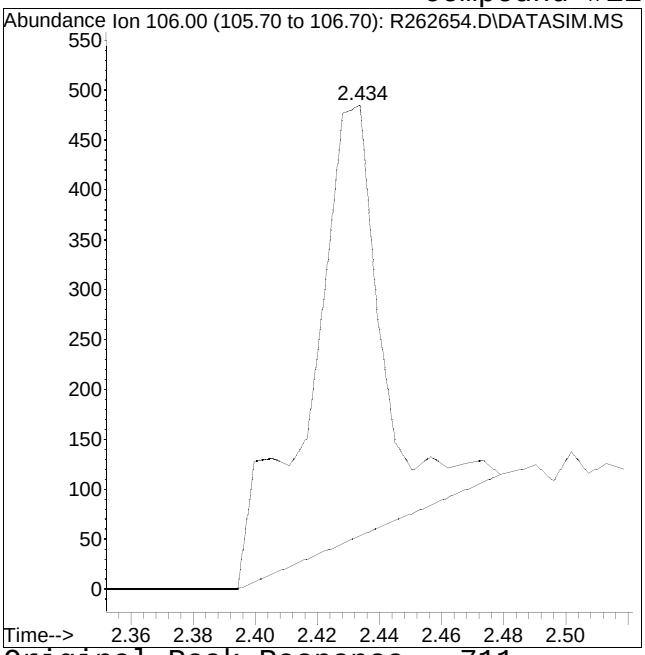
Manual Peak Response = 230 M4

M4 = Poor automated baseline construction.

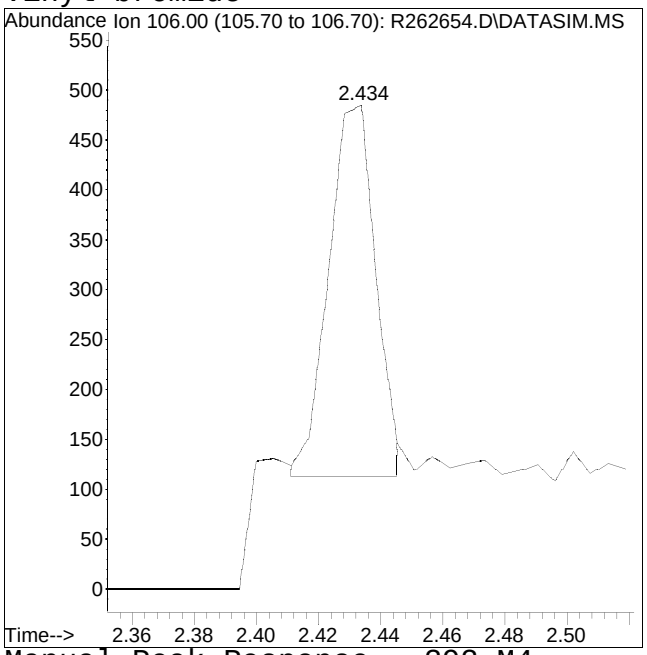
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #11: vinyl bromide



Original Peak Response = 711



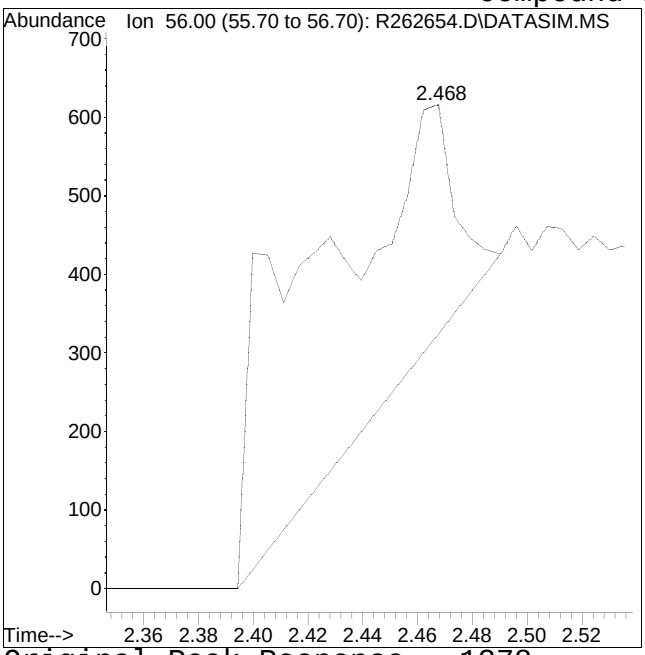
Manual Peak Response = 392 M4

M4 = Poor automated baseline construction.

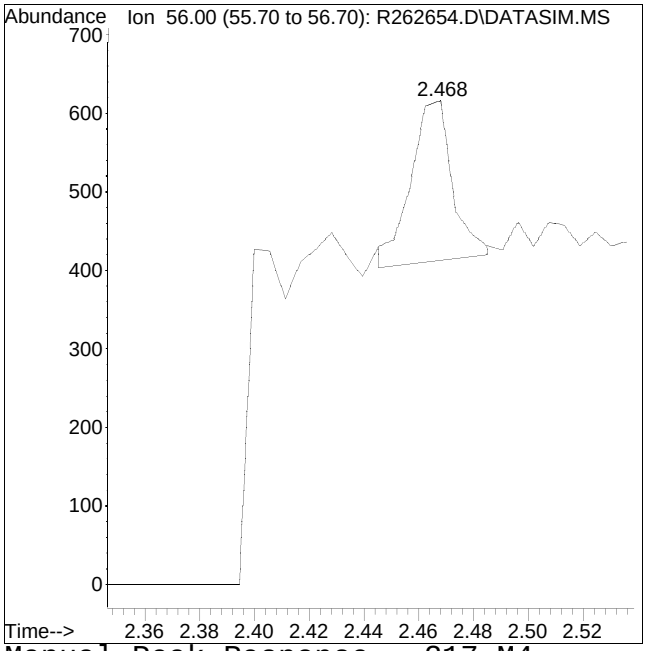
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #12: acrolein



Original Peak Response = 1378



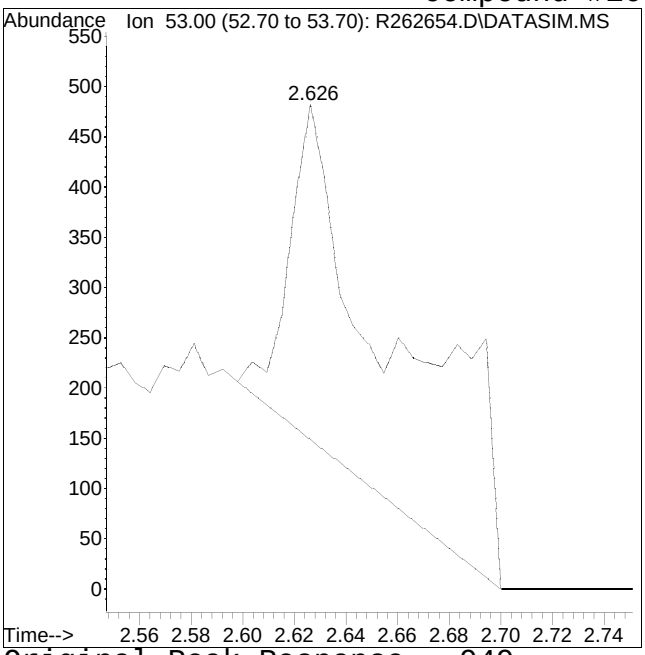
Manual Peak Response = 217 M4

M4 = Poor automated baseline construction.

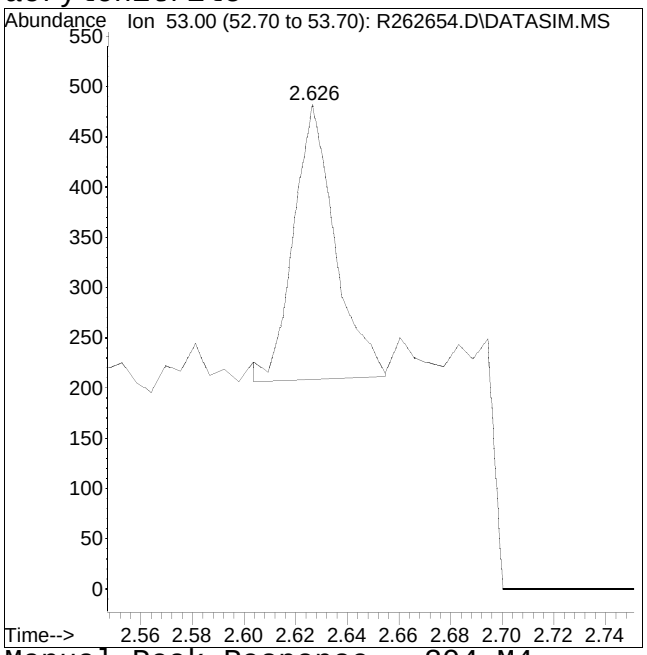
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 949



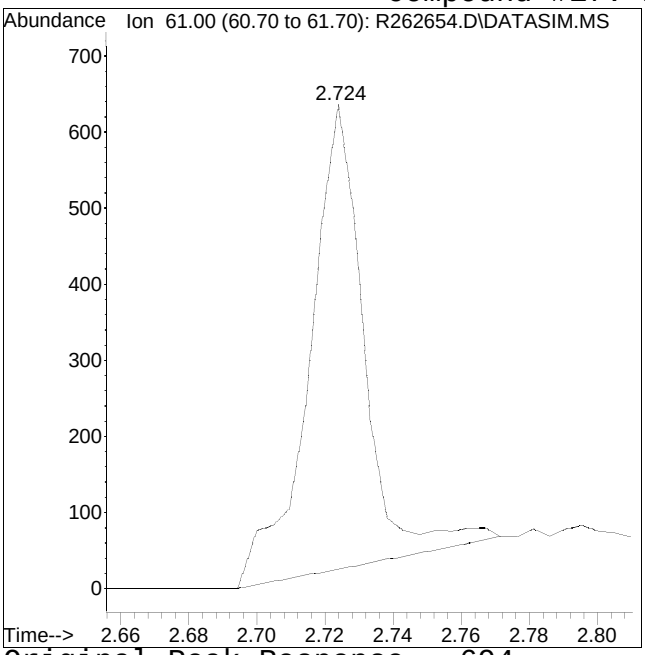
Manual Peak Response = 304 M4

M4 = Poor automated baseline construction.

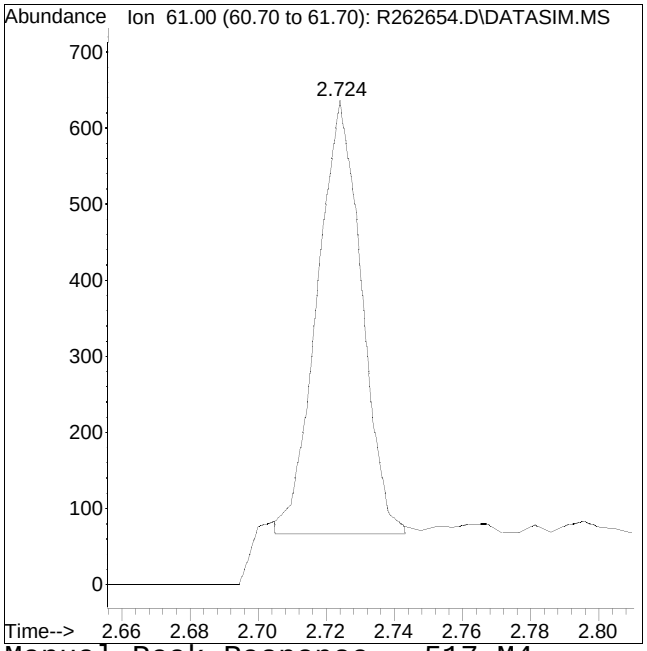
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 694



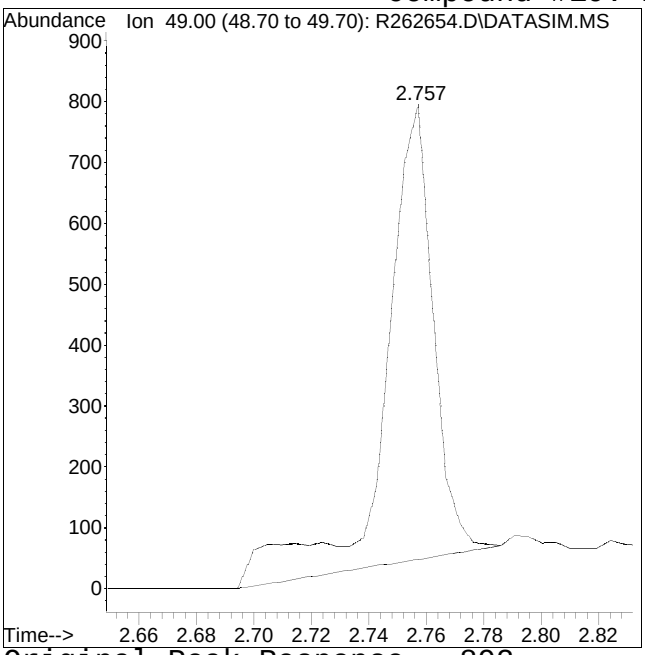
Manual Peak Response = 517 M4

M4 = Poor automated baseline construction.

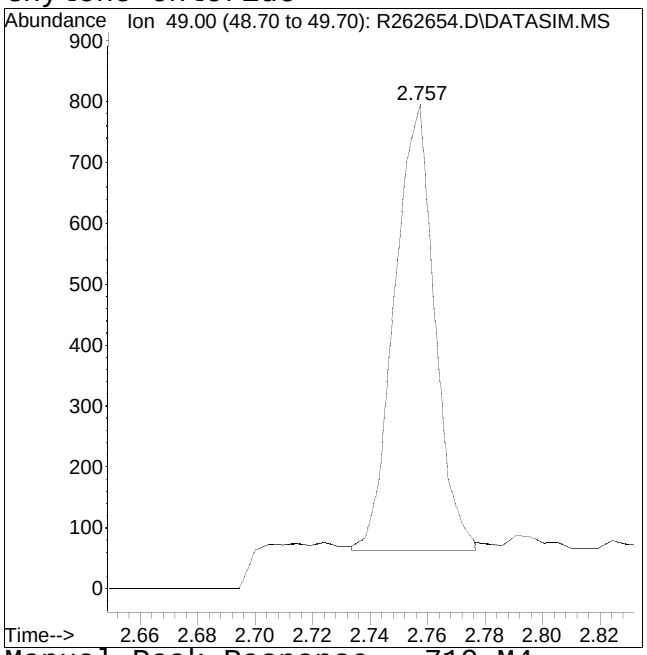
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 892



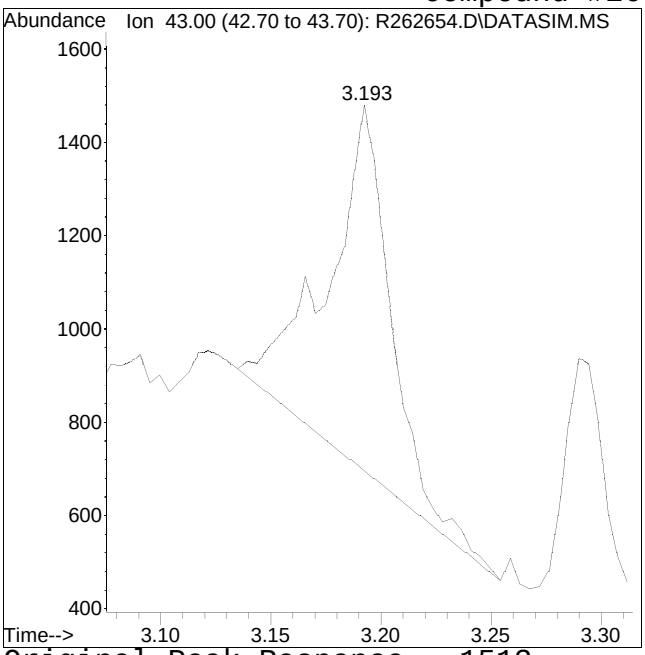
Manual Peak Response = 710 M4

M4 = Poor automated baseline construction.

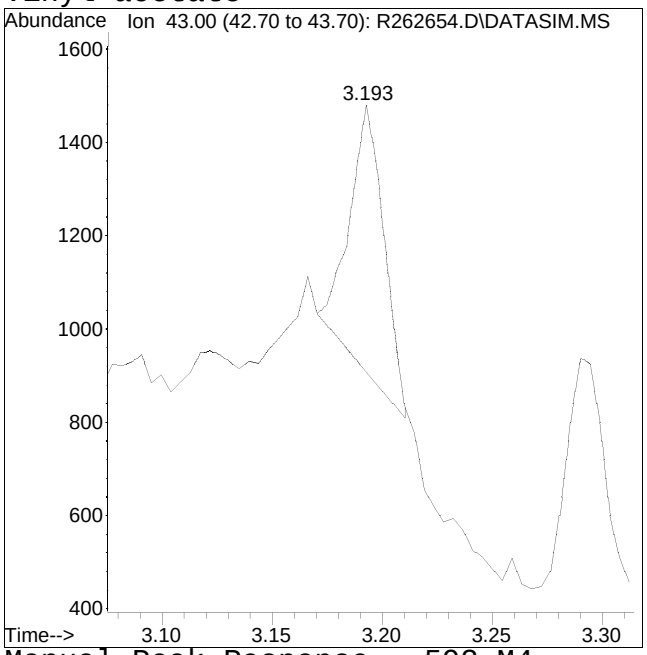
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 1513



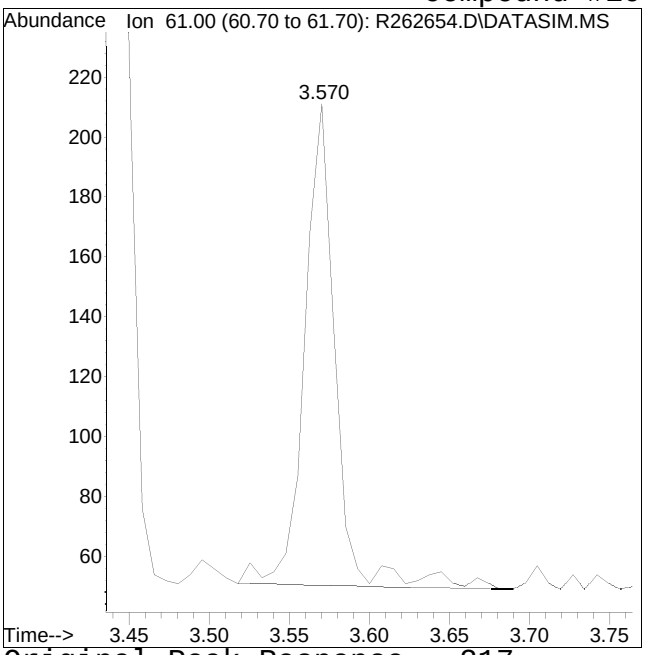
Manual Peak Response = 592 M4

M4 = Poor automated baseline construction.

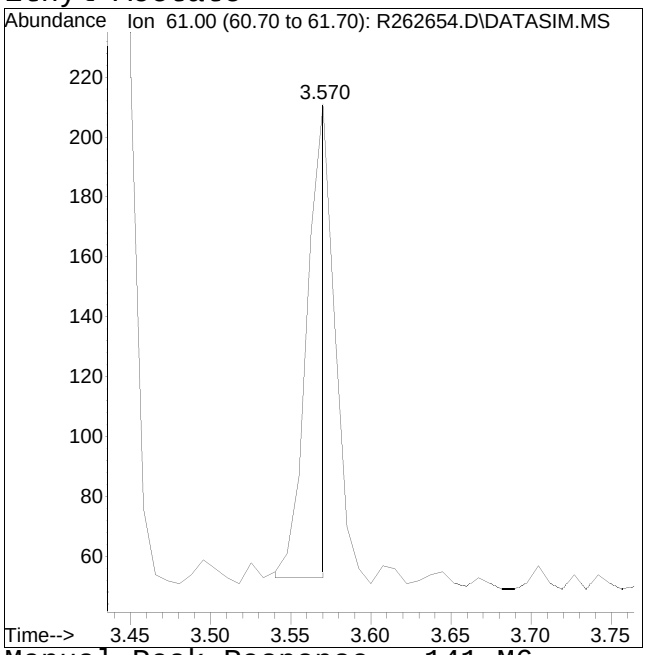
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 217



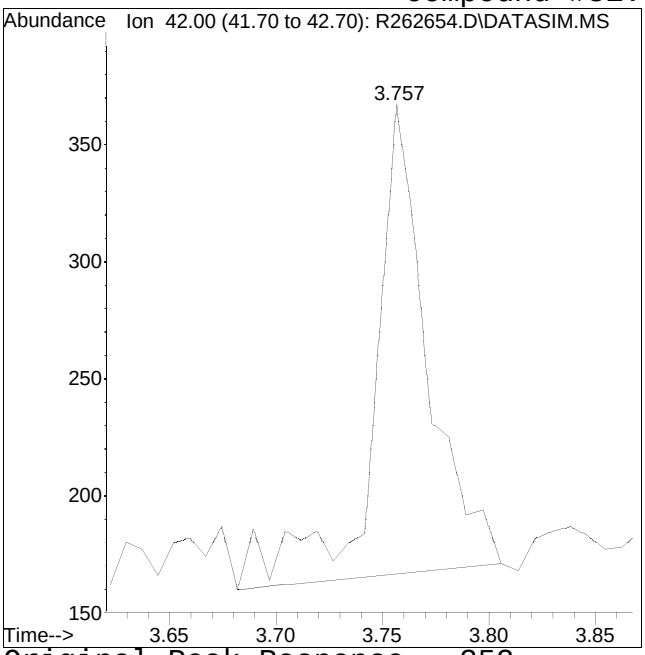
Manual Peak Response = 141 M6

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

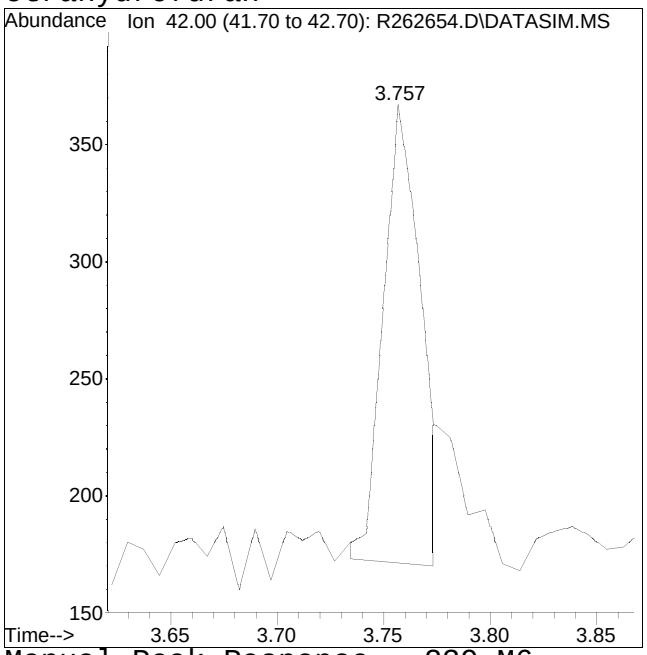
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 352



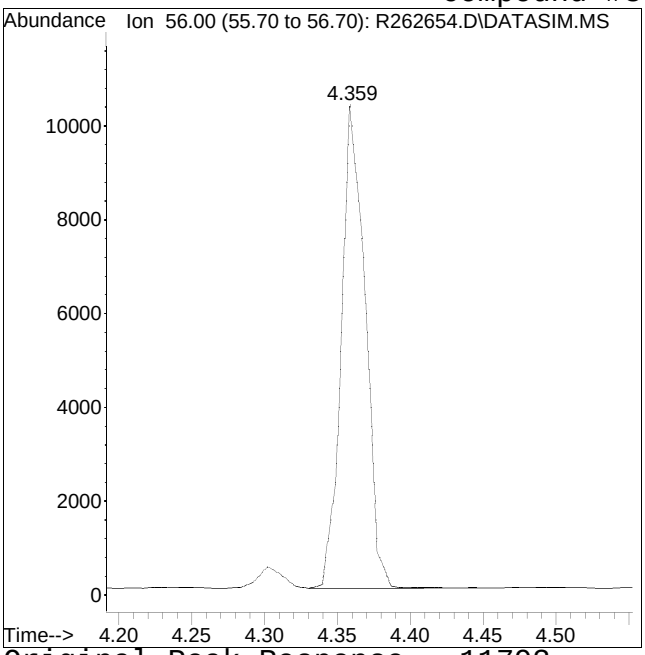
Manual Peak Response = 239 M6

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

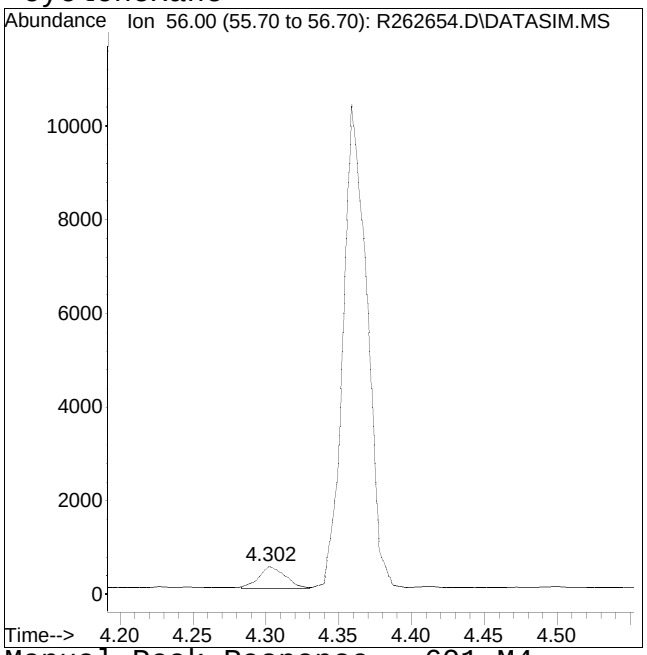
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #39: cyclohexane



Original Peak Response = 11793



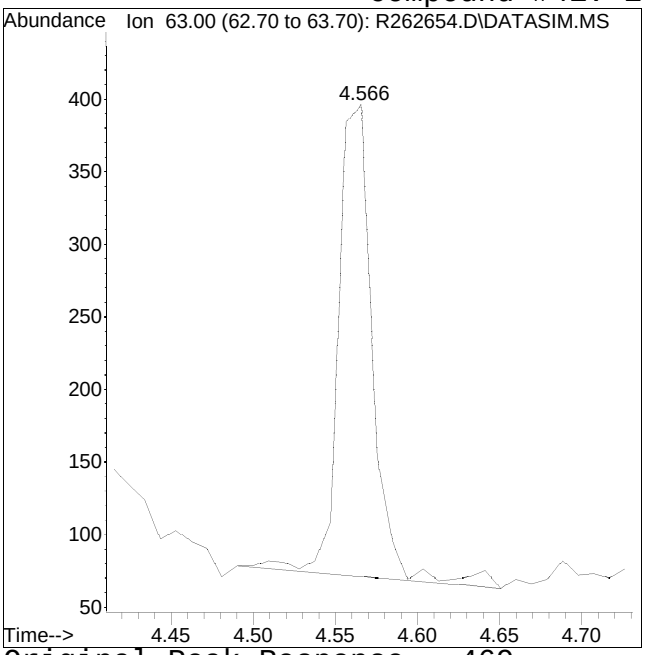
Manual Peak Response = 601 M4

M4 = Poor automated baseline construction.

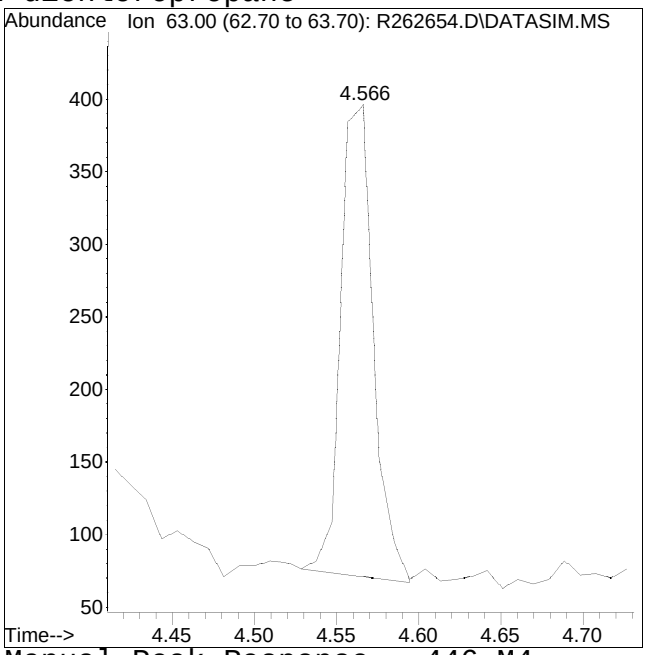
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #41: 1,2-dichloropropane



Original Peak Response = 469



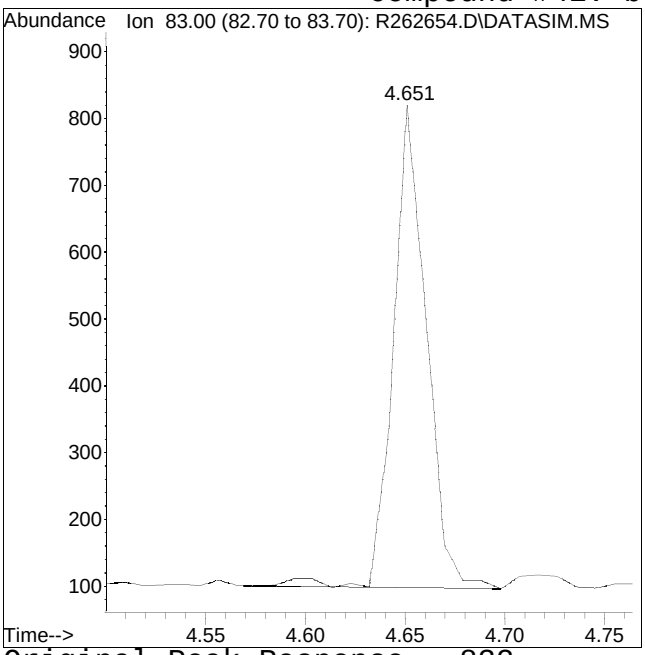
Manual Peak Response = 446 M4

M4 = Poor automated baseline construction.

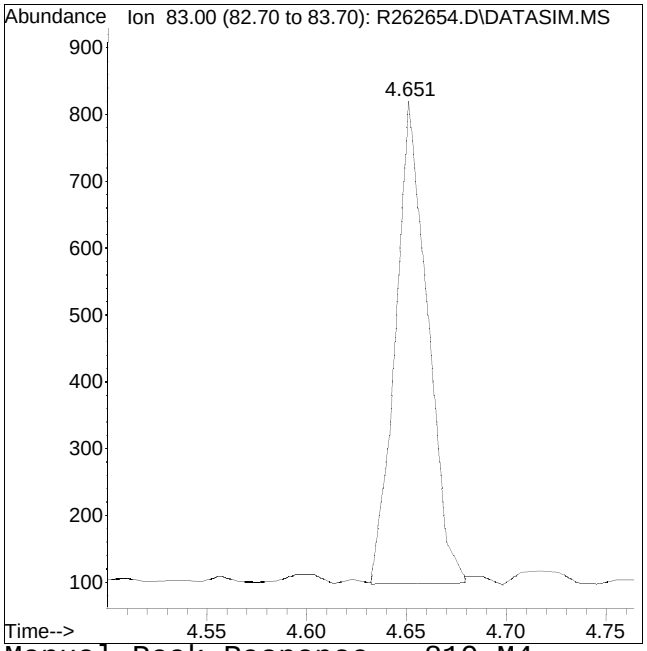
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #42: bromodichloromethane



Original Peak Response = 832



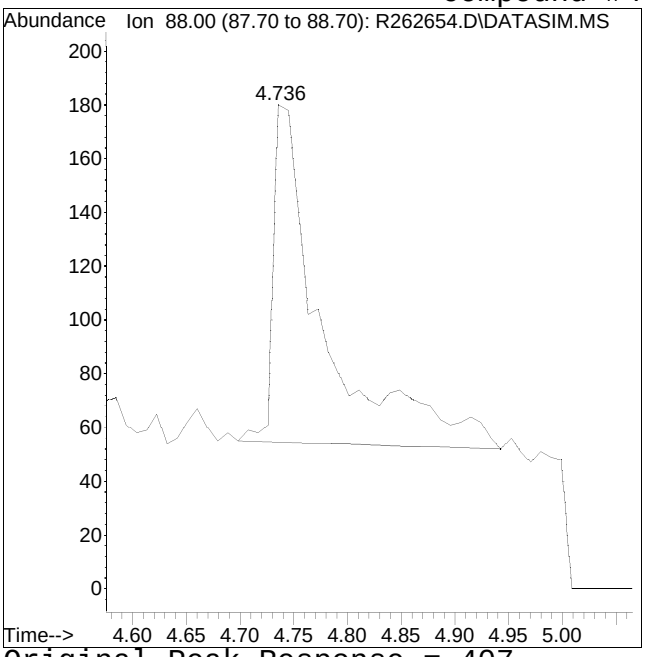
Manual Peak Response = 810 M4

M4 = Poor automated baseline construction.

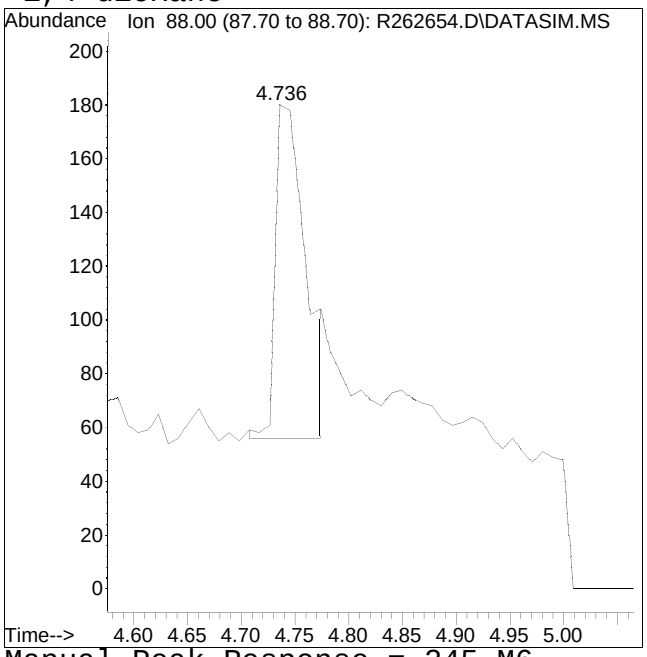
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #43: 1,4-dioxane



Original Peak Response = 407



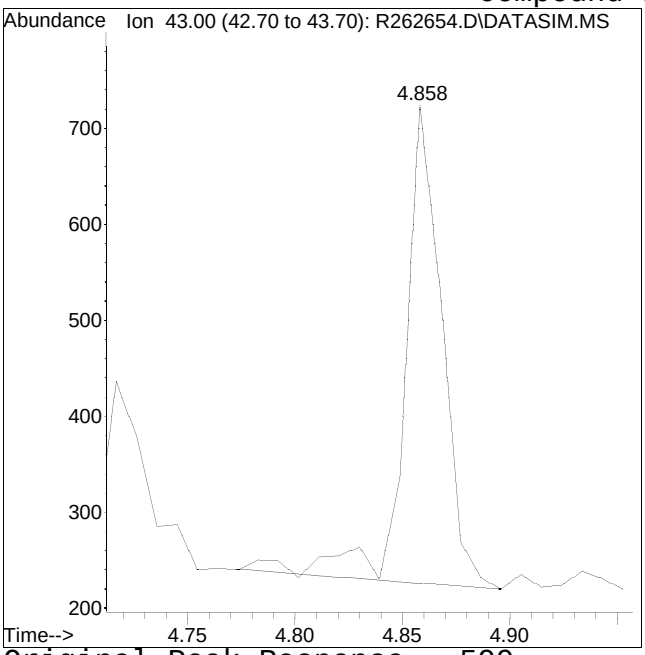
Manual Peak Response = 245 M6

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

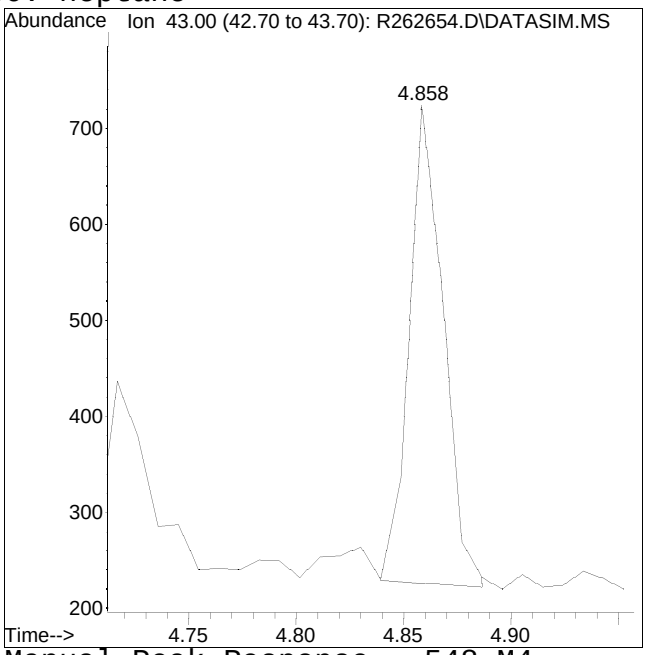
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #46: heptane



Original Peak Response = 599



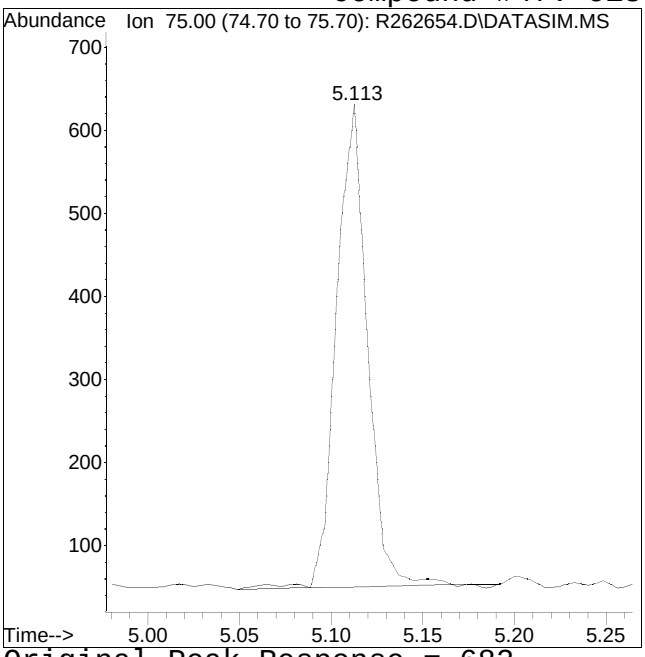
Manual Peak Response = 548 M4

M4 = Poor automated baseline construction.

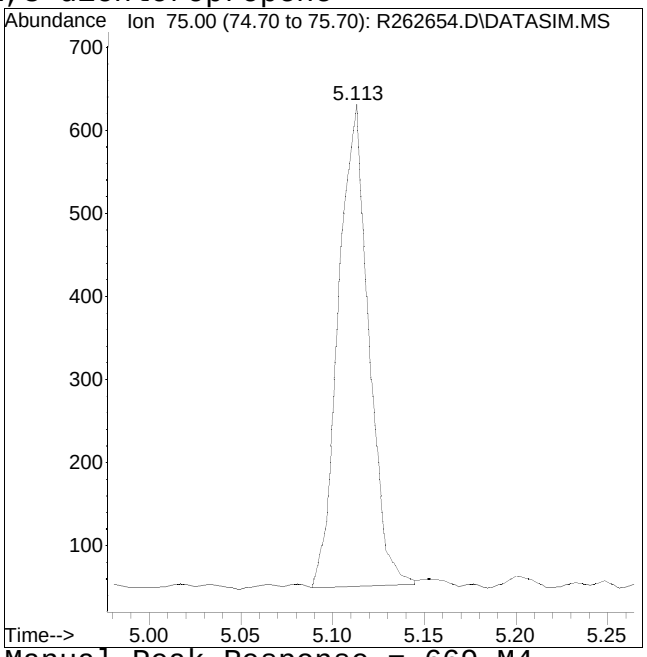
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 682



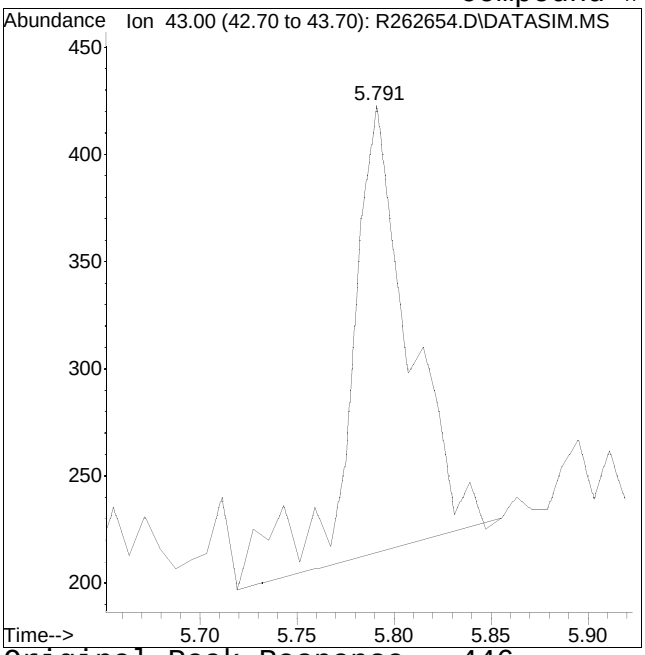
Manual Peak Response = 669 M4

M4 = Poor automated baseline construction.

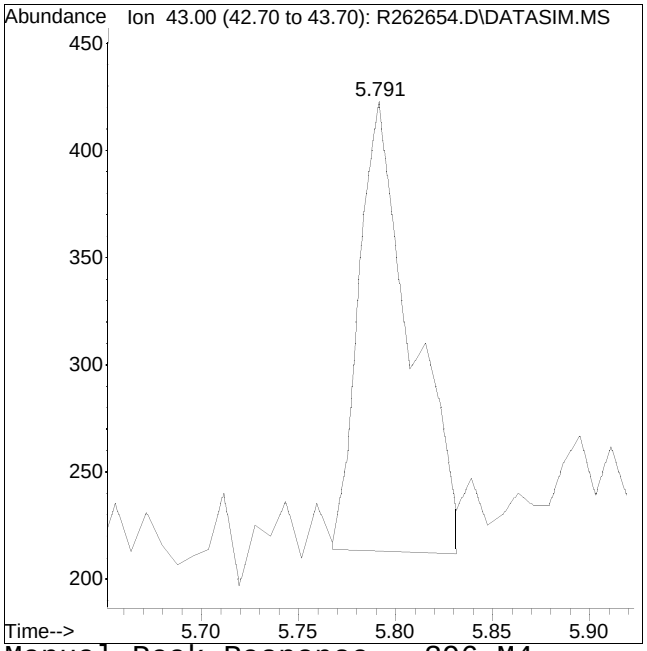
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #54: 2-hexanone



Original Peak Response = 446



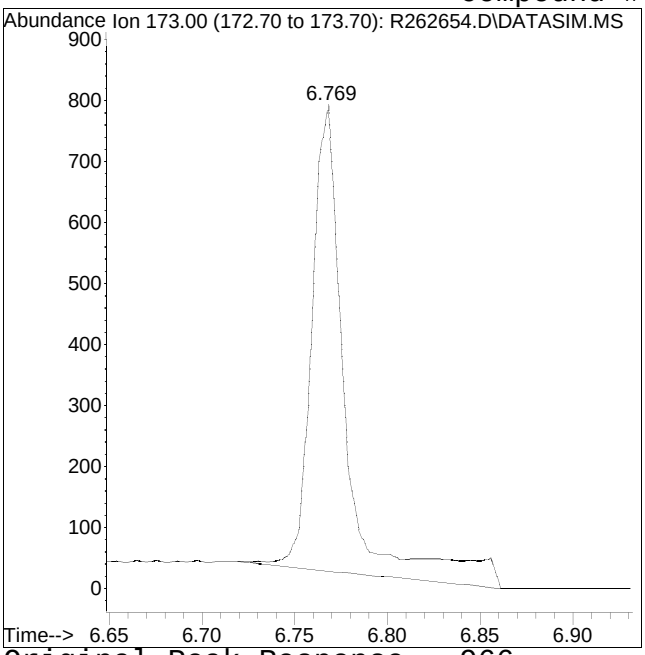
Manual Peak Response = 396 M4

M4 = Poor automated baseline construction.

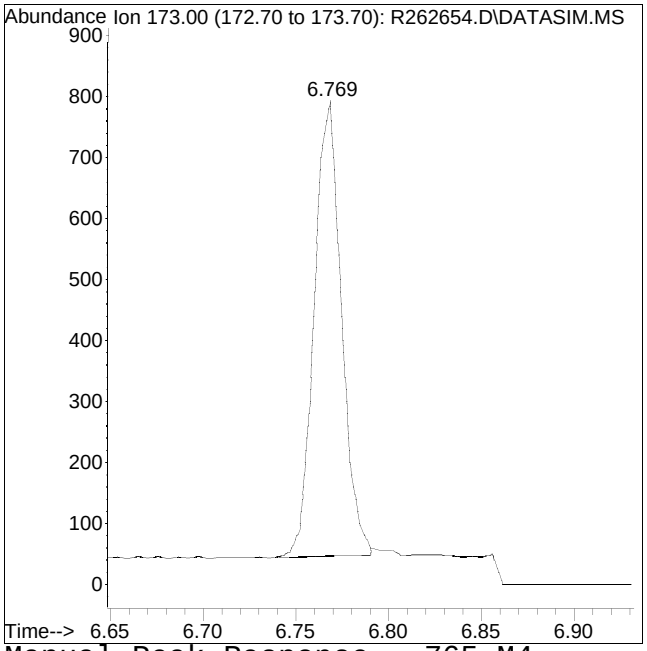
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #62: bromoform



Original Peak Response = 966



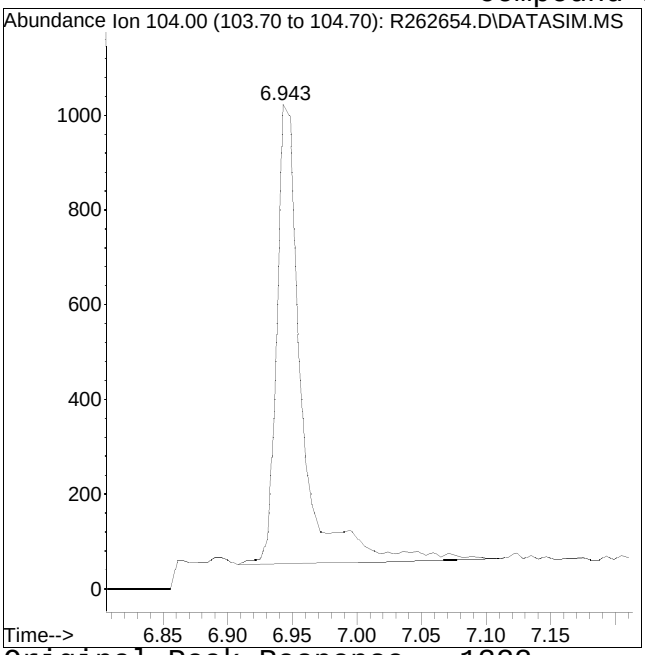
Manual Peak Response = 765 M4

M4 = Poor automated baseline construction.

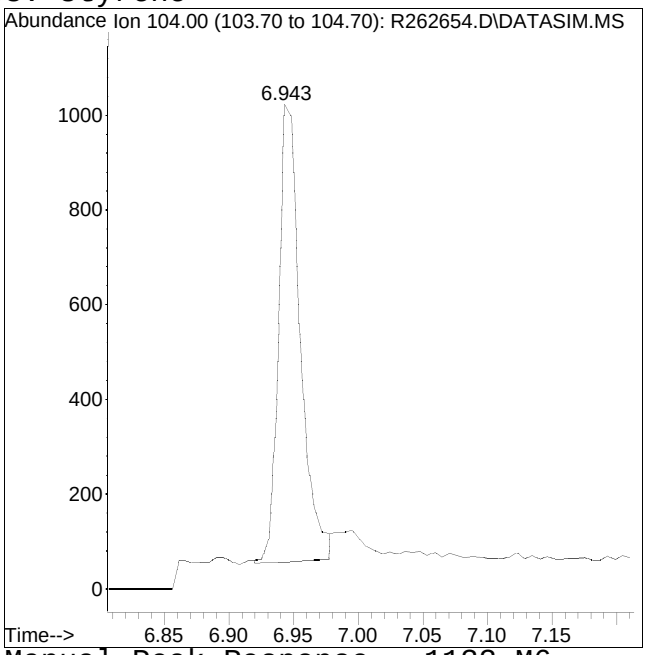
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #63: styrene



Original Peak Response = 1322



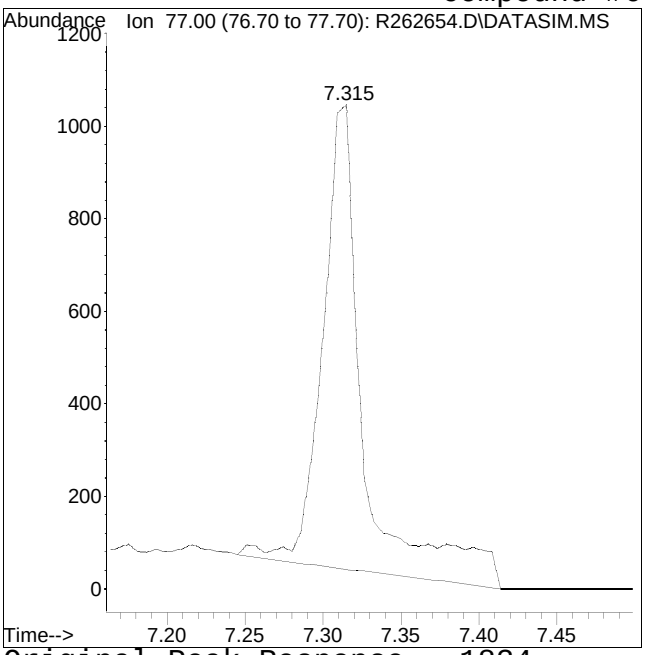
Manual Peak Response = 1133 M6

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

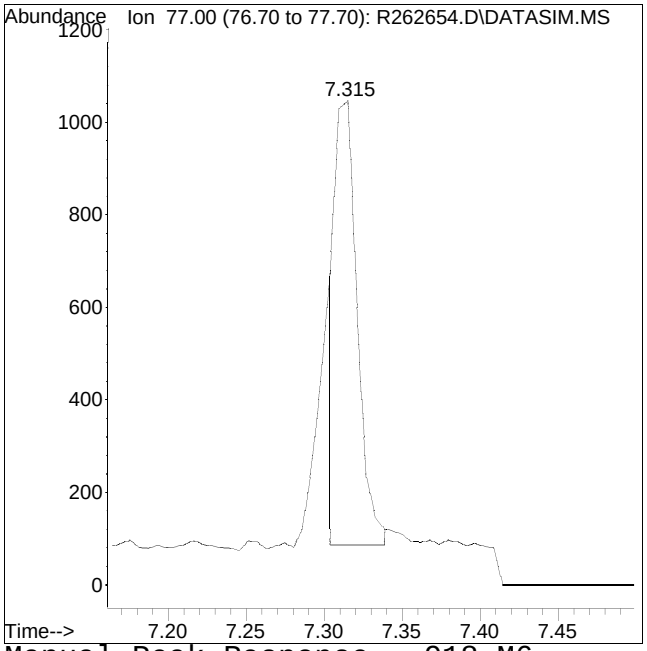
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 1834



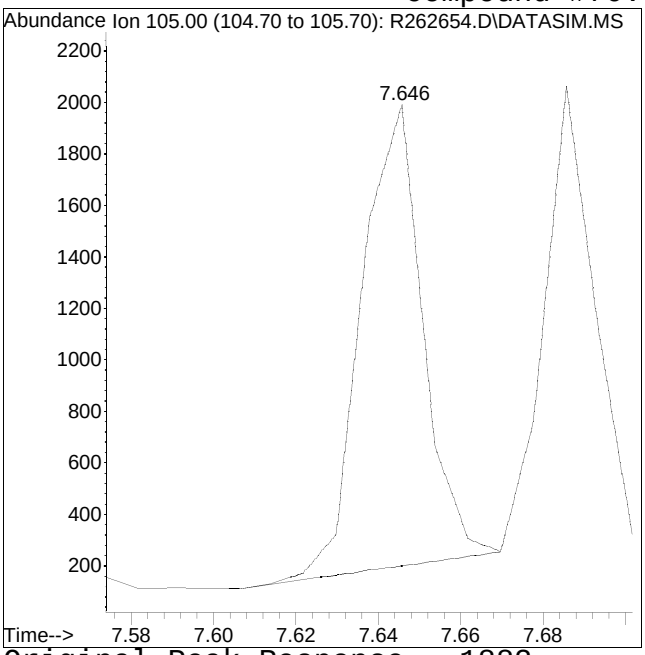
Manual Peak Response = 918 M6

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

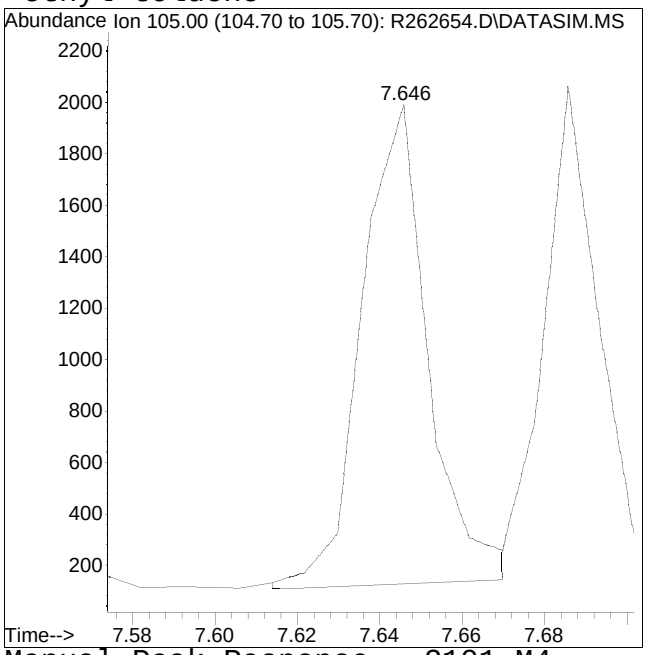
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1882



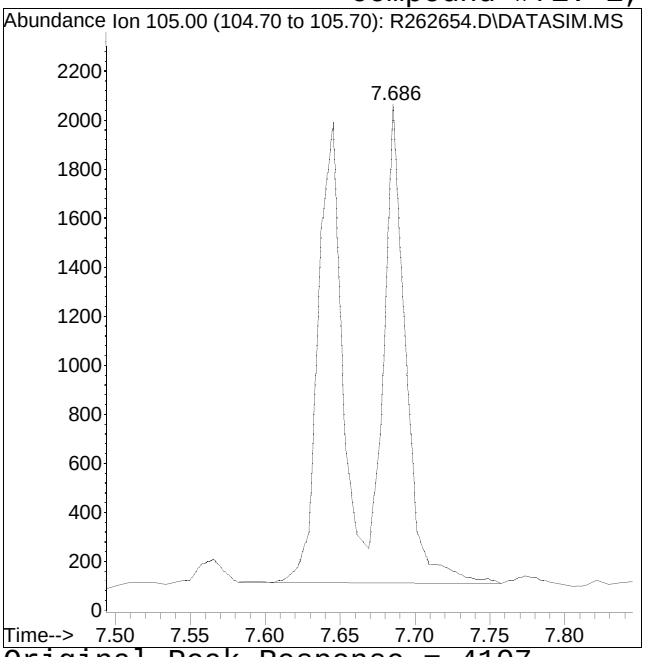
Manual Peak Response = 2101 M4

M4 = Poor automated baseline construction.

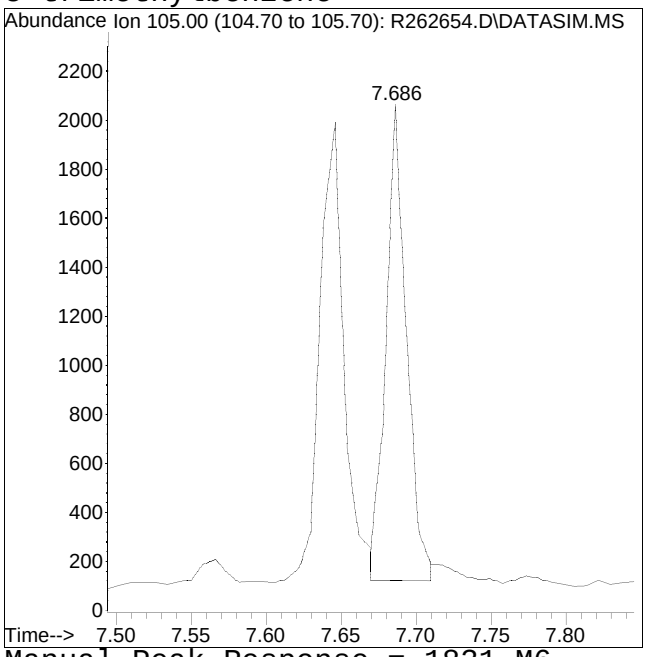
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 4107



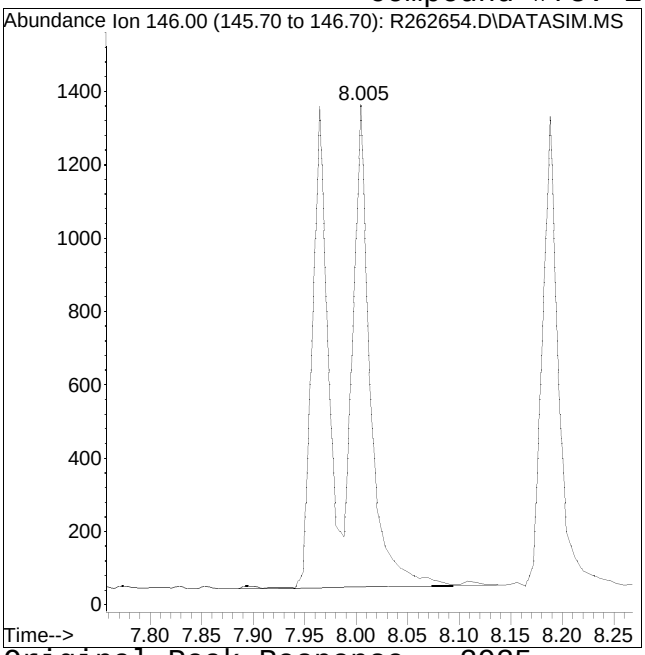
Manual Peak Response = 1831 M6

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

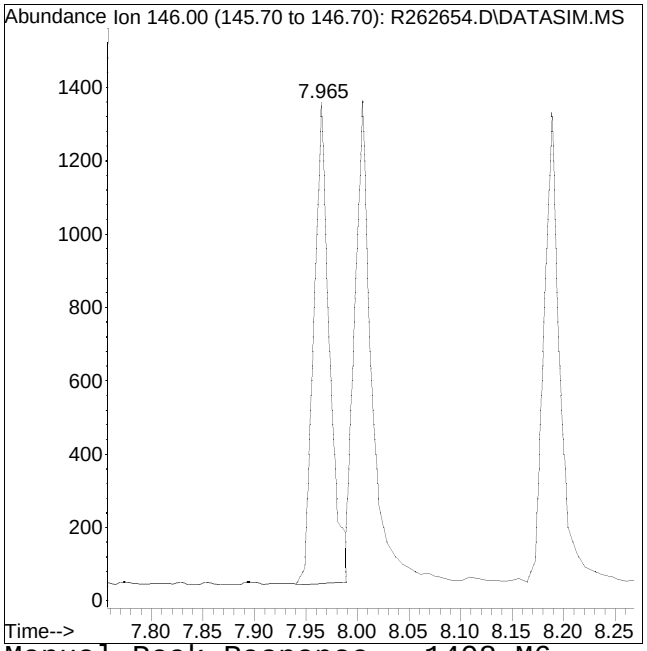
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 2935



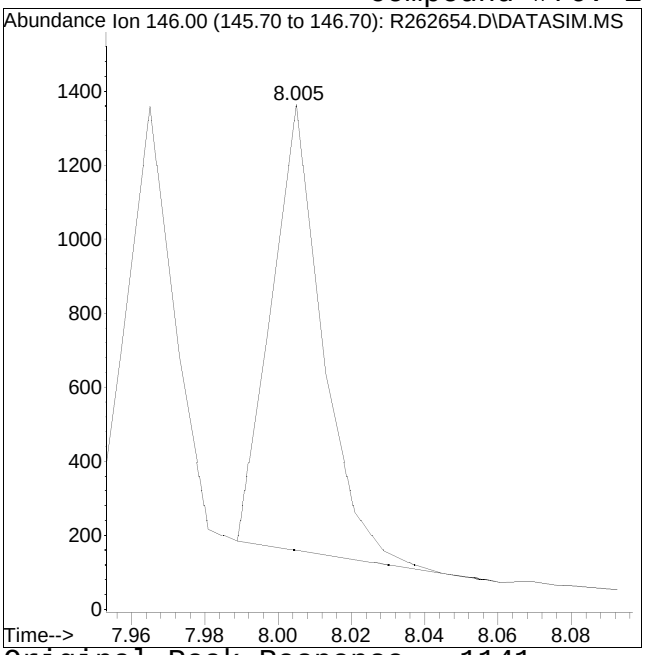
Manual Peak Response = 1408 M6

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

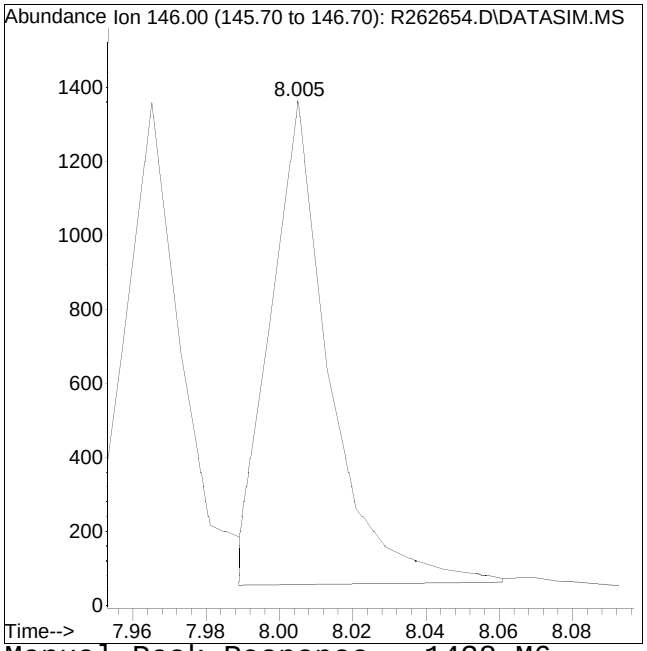
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1141



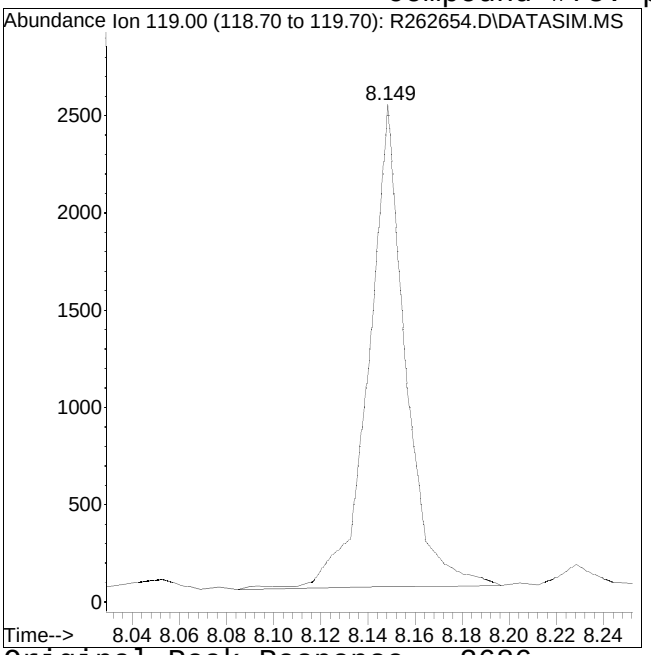
Manual Peak Response = 1438 M6

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

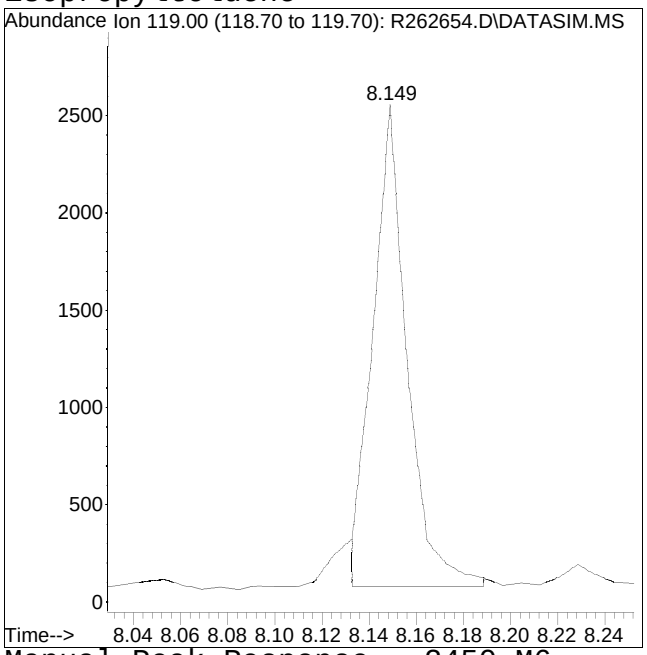
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262654.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:01 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.02 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 2686



Manual Peak Response = 2450 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\04\0402SIM_I\
Data File : R262655.D
Acq On : 03 Apr 2025 01:31 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.05
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	218976	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 103.03%			
33) 1,4-difluorobenzene	4.368	114	950929	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 102.93%			
51) chlorobenzene-D5	6.452	54	108619	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 103.91%			
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	490	0.007	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.07%#			
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	626	0.055	ppbV	93
3) dichlorodifluoromethane	2.026	85	2514	0.055	ppbV	99
4) chloromethane	2.076	50	783M6	0.060	ppbV	
5) Freon-114	2.109	85	2644	0.055	ppbV	96
6) vinyl chloride	2.147	62	902	0.054	ppbV #	81
7) 1,3-butadiene	2.191	54	564	0.052	ppbV #	1
8) bromomethane	2.273	94	1027	0.060	ppbV	99
9) chloroethane	2.328	64	525M4	0.057	ppbV	
10) ethanol	2.361	31	5883	0.898	ppbV	97
11) vinyl bromide	2.434	106	991M1	0.056	ppbV	
12) acrolein	2.468	56	431M4	0.063	ppbV	
13) acetone	2.507	43	5639	0.339	ppbV #	94
14) trichlorofluoromethane	2.553	101	2334	0.056	ppbV	100
15) isopropyl alcohol	2.575	45	4088	0.217	ppbV	99
16) acrylonitrile	2.626	53	644M4	0.057	ppbV	
17) 1,1-dichloroethene	2.724	61	1213M4	0.053	ppbV	
18) tertiary butyl alcohol	2.748	59	2181	0.073	ppbV #	1
19) methylene chloride	2.757	49	1222M4	0.087	ppbV	
20) 3-chloropropene	2.796	41	791M1	0.059	ppbV	
21) carbon disulfide	2.848	76	2474	0.055	ppbV #	77
22) Freon 113	2.848	101	2033	0.057	ppbV	98
23) trans-1,2-dichloroethene	3.060	61	1156	0.056	ppbV	97
24) 1,1-dichloroethane	3.131	63	1512M4	0.055	ppbV	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262655.D
Acq On : 03 Apr 2025 01:31 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.05
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	2388	0.058	ppbV	#	81
26) vinyl acetate	3.193	43	1811M6	0.065	ppbV		
27) 2-butanone	3.294	43	1452M4	0.042	ppbV		
28) cis-1,2-dichloroethene	3.443	61	1299	0.056	ppbV		99
29) Ethyl Acetate	3.570	61	447M6	0.075	ppbV		
30) chloroform	3.563	83	2174M6	0.056	ppbV		
31) Tetrahydrofuran	3.757	42	620M6	0.047	ppbV		
32) 1,2-dichloroethane	3.863	62	1201	0.055	ppbV	#	95
34) hexane	3.540	57	2038	0.086	ppbV	#	62
36) 1,1,1-trichloroethane	3.985	97	2226	0.056	ppbV		99
37) benzene	4.180	78	3310M4	0.055	ppbV		
38) carbon tetrachloride	4.255	117	2108	0.053	ppbV		98
39) cyclohexane	4.302	56	1449M4	0.061	ppbV		
40) Dibromomethane	4.538	93	1408	0.060	ppbV	#	97
41) 1,2-dichloropropane	4.566	63	1118	0.054	ppbV	#	96
42) bromodichloromethane	4.651	83	2100	0.053	ppbV	#	97
43) 1,4-dioxane	4.726	88	670M1	0.050	ppbV		
44) trichloroethene	4.679	130	1611	0.052	ppbV		94
45) 2,2,4-trimethylpentane	4.717	57	4245	0.056	ppbV		97
46) heptane	4.858	43	1337M4	0.056	ppbV		
47) cis-1,3-dichloropropene	5.113	75	1709	0.052	ppbV		93
48) 4-methyl-2-pentanone	5.169	43	1411M4	0.043	ppbV		
49) trans-1,3-dichloropropene	5.376	75	1374	0.052	ppbV		97
50) 1,1,2-trichloroethane	5.448	97	1504	0.054	ppbV		97
52) toluene	5.592	91	4452	0.058	ppbV		99
54) 2-hexanone	5.783	43	1016M4	0.033	ppbV		
55) dibromochloromethane	5.783	129	2159	0.049	ppbV		97
56) 1,2-dibromoethane	5.903	107	2227	0.052	ppbV		99
57) tetrachloroethene	6.142	166	2074M4	0.052	ppbV		
58) 1,1,1,2-tetrachloroethane	6.474	131	1707	0.051	ppbV	#	95
59) chlorobenzene	6.474	112	3624	0.054	ppbV	#	1
60) ethylbenzene	6.676	91	5315	0.053	ppbV		100
61) m+p-xylene	6.768	91	8698	0.108	ppbV		100
62) bromoform	6.768	173	1909M4	0.046	ppbV		
63) styrene	6.943	104	2997M6	0.047	ppbV		
64) 1,1,2,2-tetrachloroethane	6.989	83	2958	0.051	ppbV		99
65) o-xylene	6.995	91	4210	0.055	ppbV		97
66) 1,2,3-Trichloropropane	7.053	75	2190	0.054	ppbV		98
68) isopropylbenzene	7.298	105	6468	0.057	ppbV		93
69) Bromobenzene	7.309	77	2407M6	0.051	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262655.D
Acq On : 03 Apr 2025 01:31 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.05
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

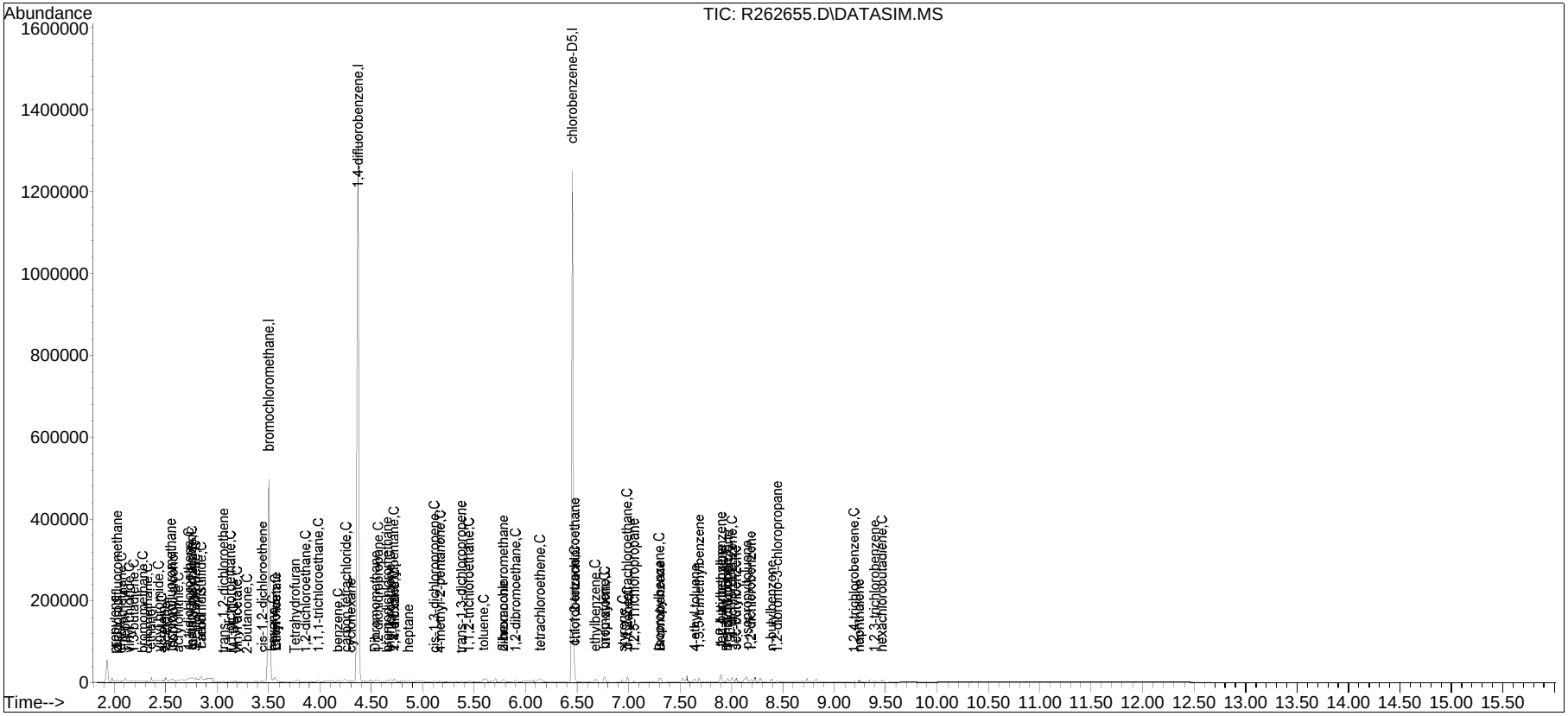
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.646	105	5484M6	0.049	ppbV		
71) 1,3,5-trimethylbenzene	7.686	105	4987M6	0.055	ppbV		
72) tert-butylbenzene	7.901	119	5602	0.054	ppbV		98
73) 1,2,4-trimethylbenzene	7.901	105	4961	0.052	ppbV		99
74) Benzyl Chloride	7.957	91	2883	0.038	ppbV		93
75) 1,3-dichlorobenzene	7.965	146	3547M6	0.048	ppbV		
76) 1,4-dichlorobenzene	8.005	146	3782M6	0.051	ppbV		
77) sec-butylbenzene	8.045	105	7413	0.054	ppbV		99
78) p-isopropyltoluene	8.149	119	6387M6	0.052	ppbV		
79) 1,2-dichlorobenzene	8.189	146	3617	0.051	ppbV		99
80) n-butylbenzene	8.388	91	5560	0.050	ppbV		100
81) 1,2-dibromo-3-chloropr...	8.444	75	1260	0.046	ppbV	#	92
82) 1,2,4-trichlorobenzene	9.192	180	2436	0.037	ppbV		98
83) naphthalene	9.245	128	6694	0.043	ppbV		99
84) 1,2,3-trichlorobenzene	9.397	180	2659	0.035	ppbV		97
85) hexachlorobutadiene	9.467	225	2434	0.045	ppbV		98

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262655.D
Acq On : 03 Apr 2025 01:31 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.05
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:08 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

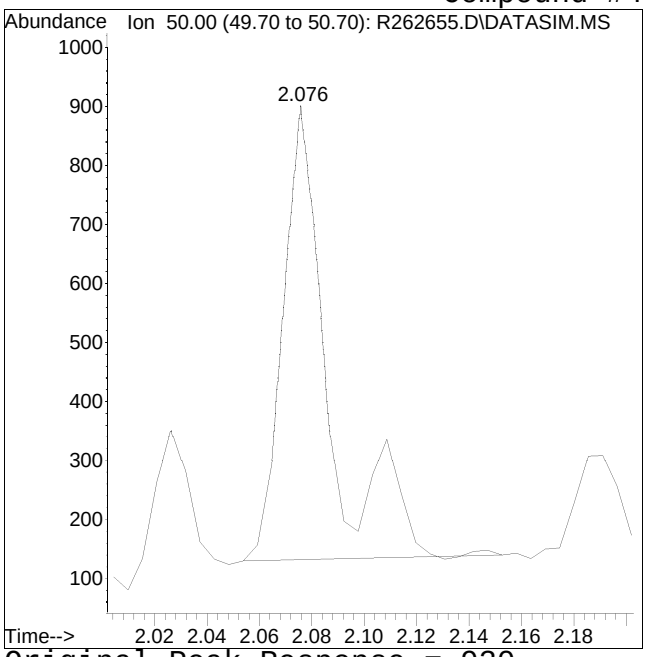


Manual Integration Report

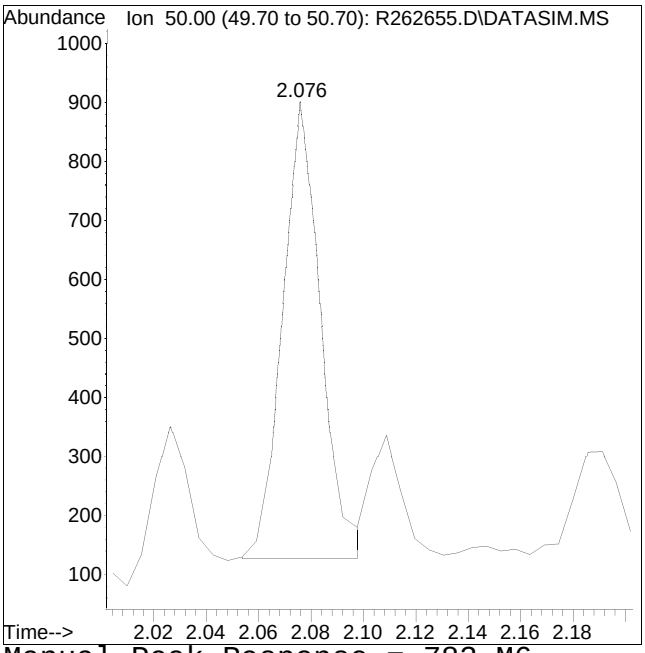
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262655.D
Date Inj'd : 4/3/2025 1:31 am
Sample : ITO15-SIMSTD0.05

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 930



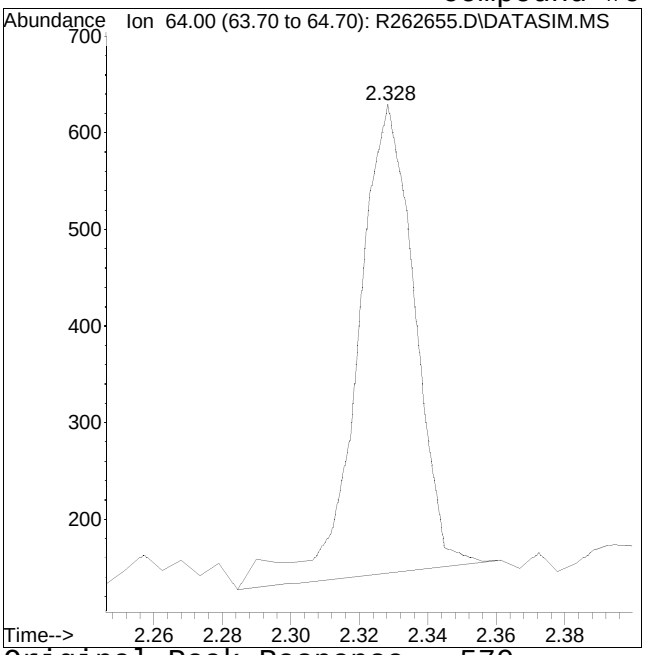
Manual Peak Response = 783 M6

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

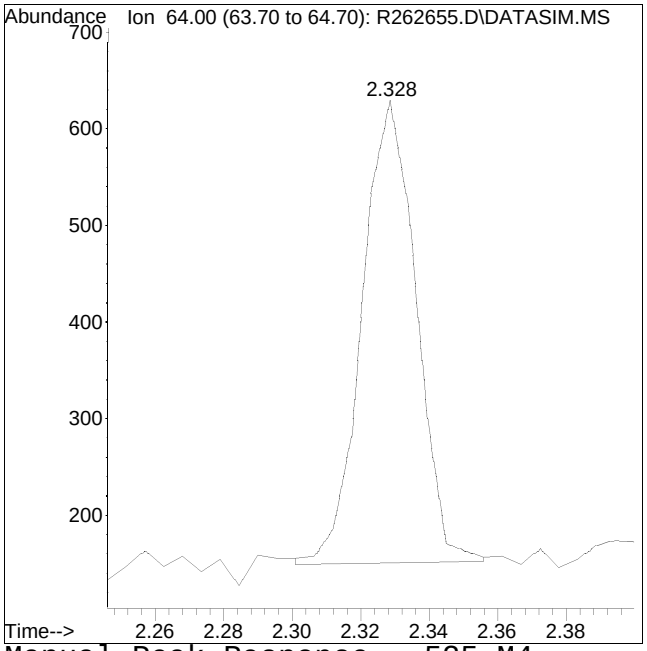
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #9: chloroethane



Original Peak Response = 570



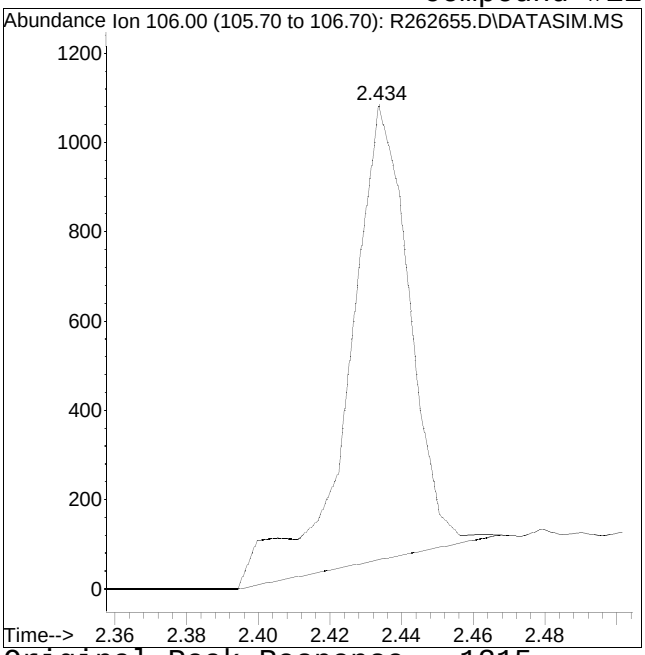
Manual Peak Response = 525 M4

M4 = Poor automated baseline construction.

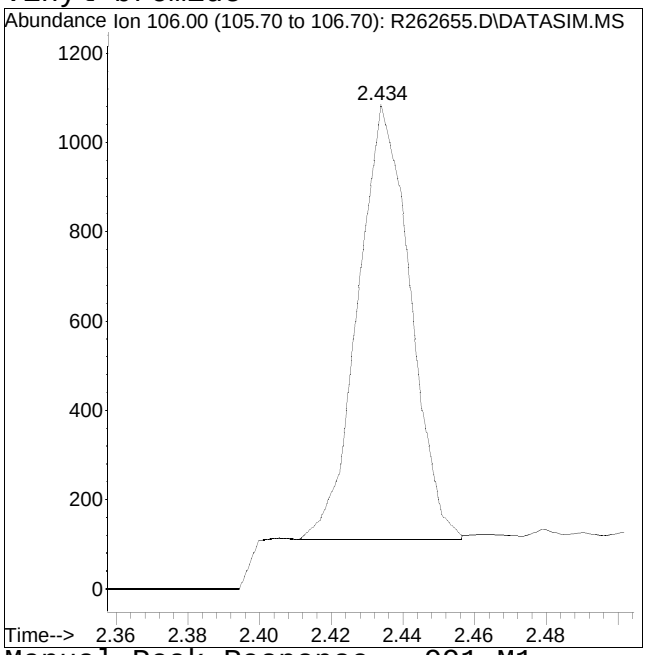
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #11: vinyl bromide



Original Peak Response = 1215



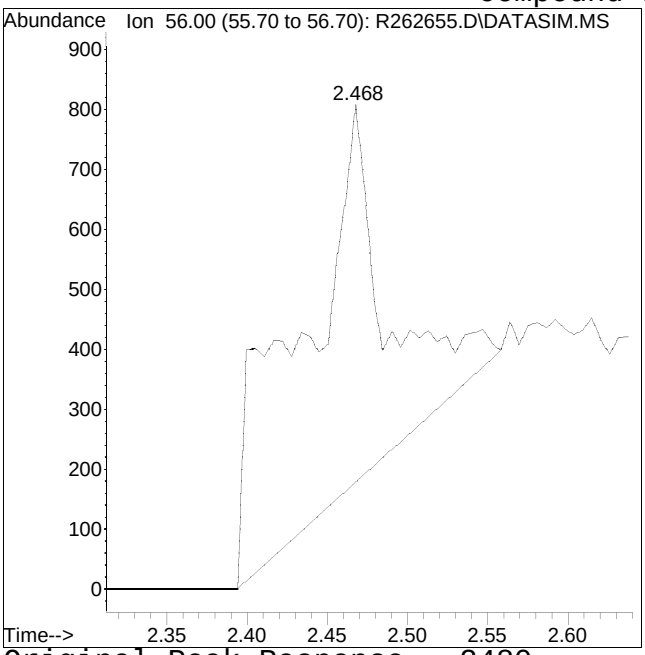
Manual Peak Response = 991 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

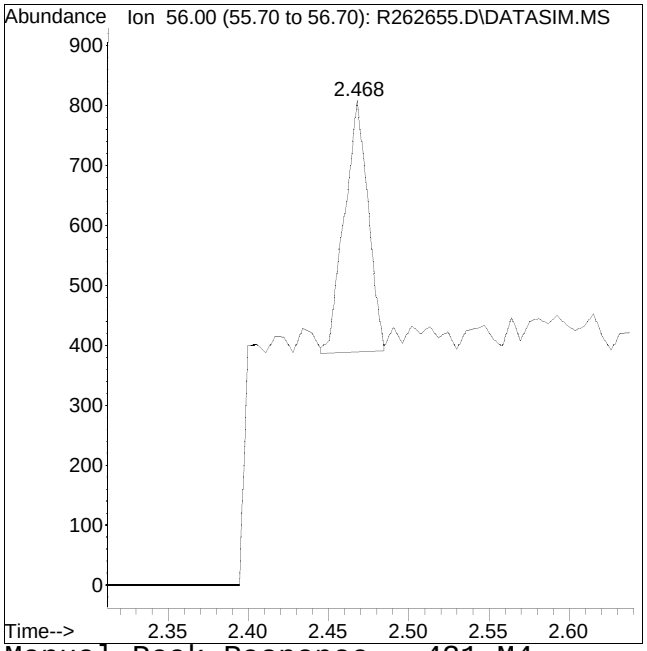
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #12: acrolein



Original Peak Response = 2480



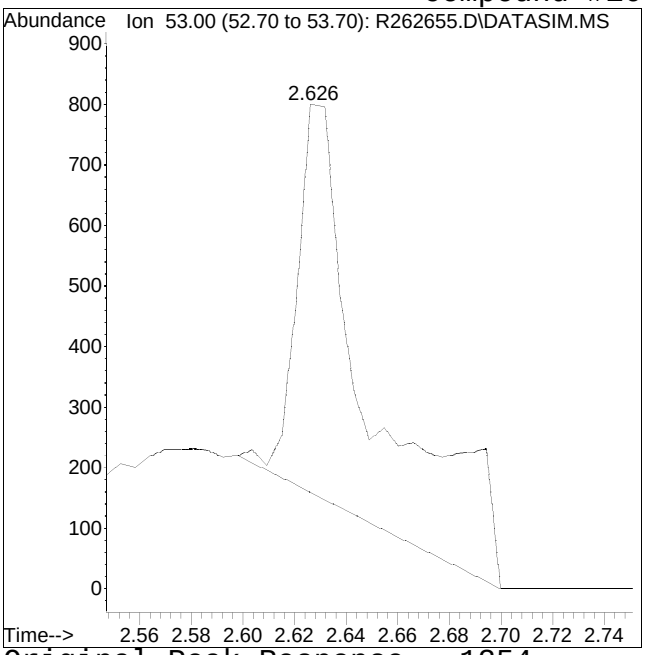
Manual Peak Response = 431 M4

M4 = Poor automated baseline construction.

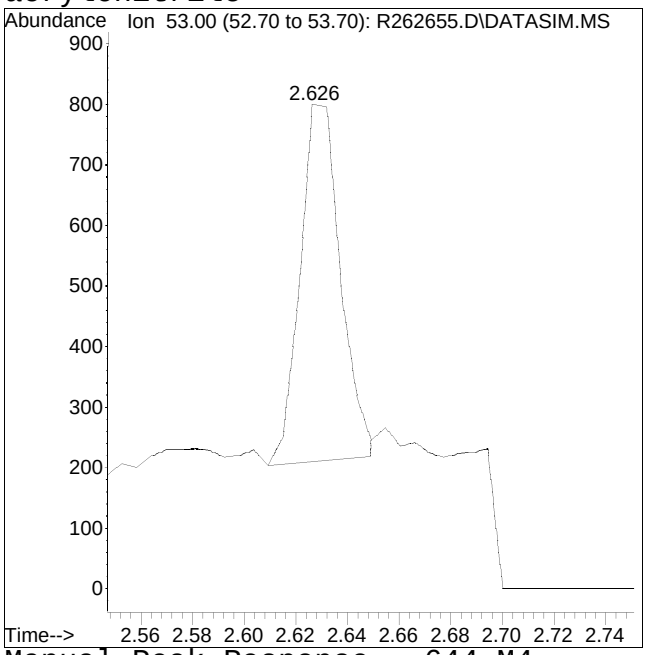
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 1254



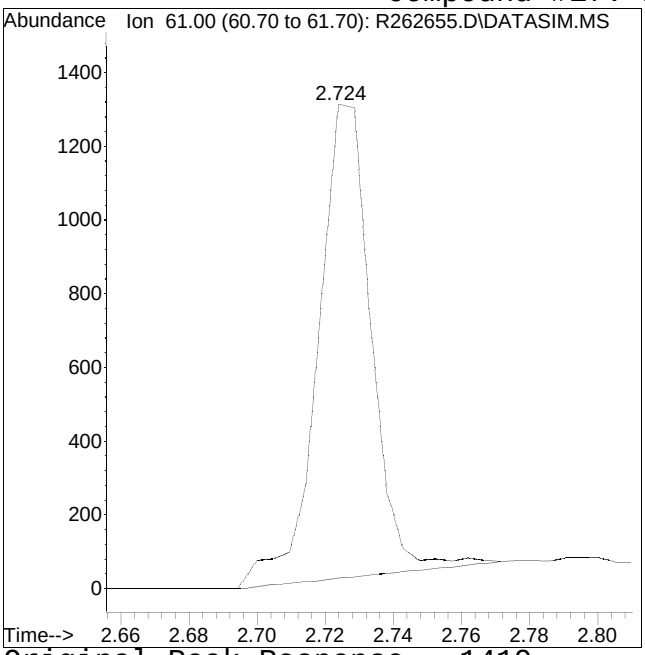
Manual Peak Response = 644 M4

M4 = Poor automated baseline construction.

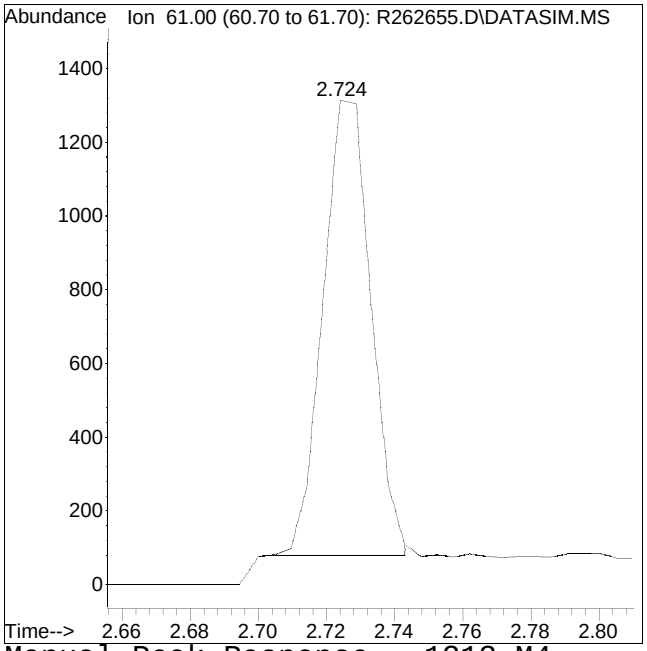
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 1419



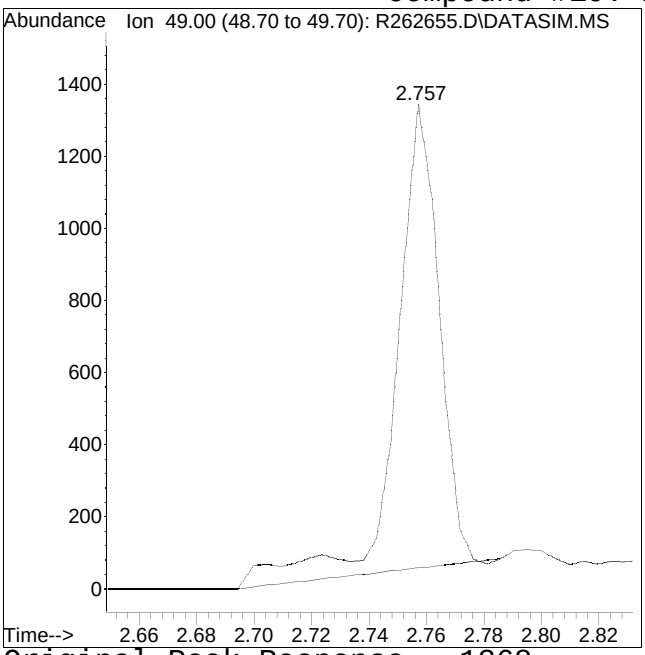
Manual Peak Response = 1213 M4

M4 = Poor automated baseline construction.

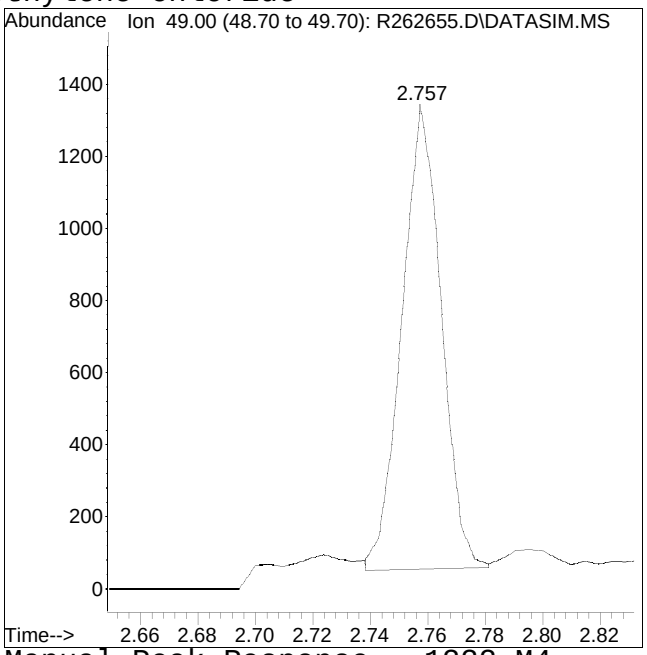
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 1368



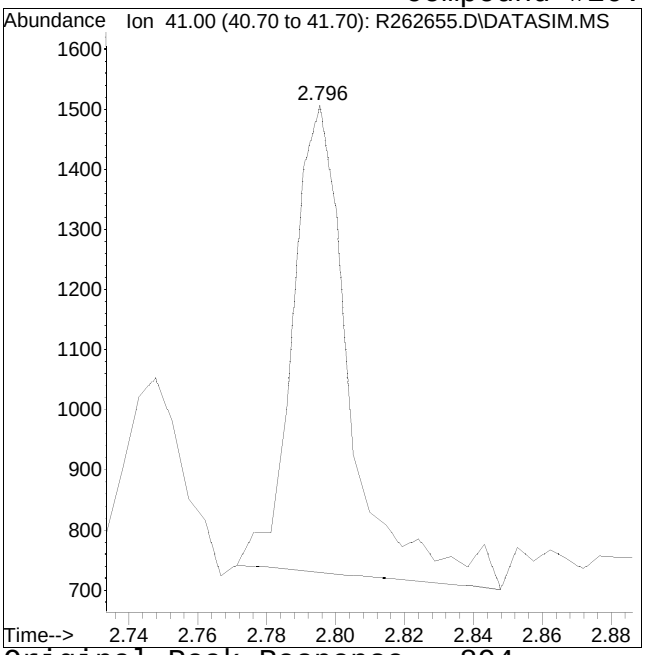
Manual Peak Response = 1222 M4

M4 = Poor automated baseline construction.

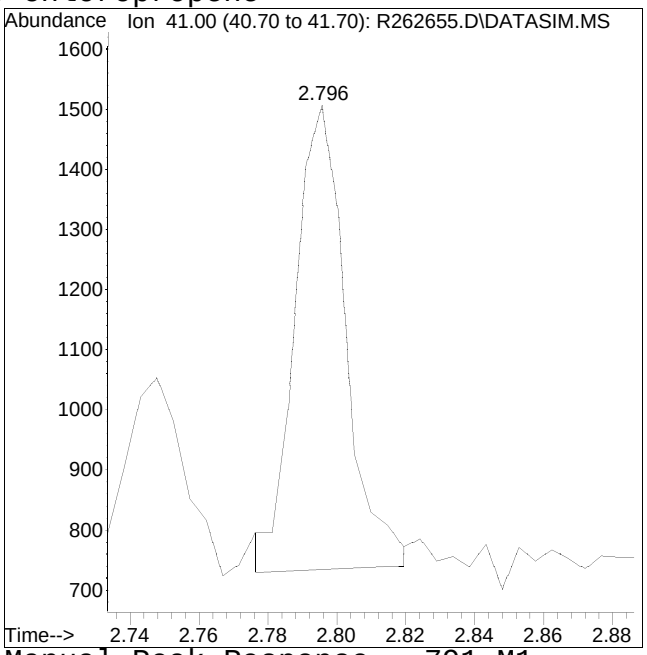
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #20: 3-chloropropene



Original Peak Response = 894



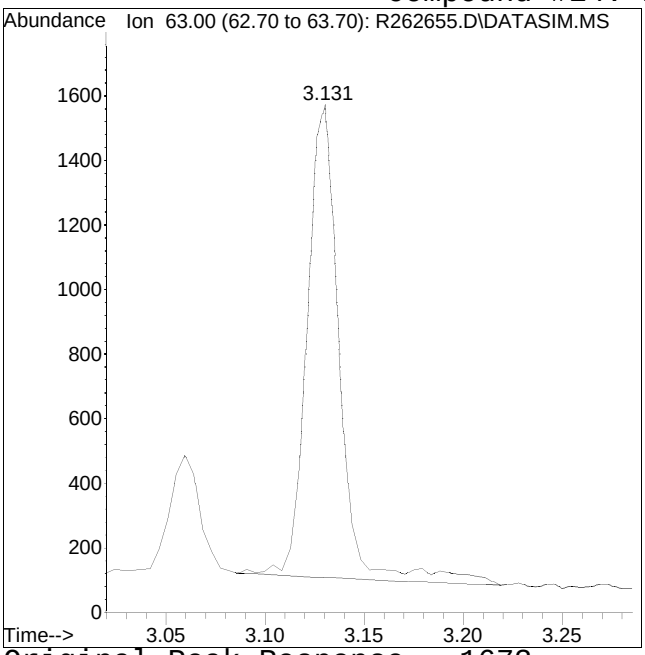
Manual Peak Response = 791 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

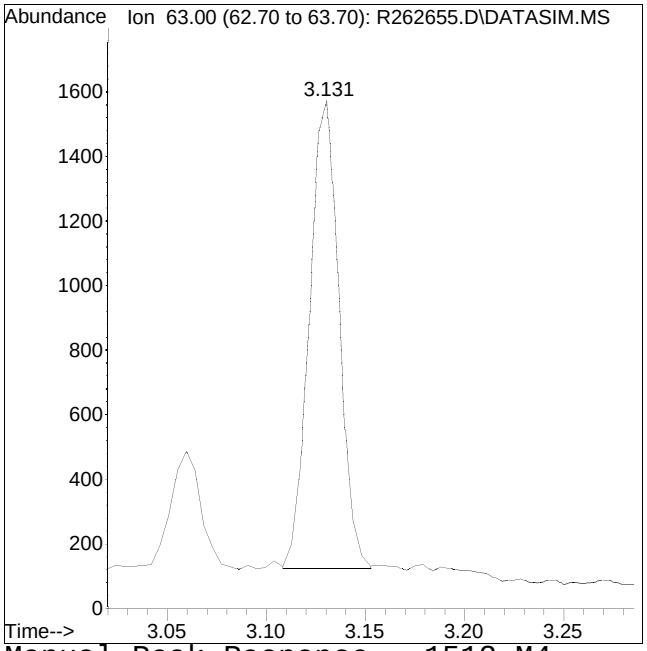
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #24: 1,1-dichloroethane



Original Peak Response = 1673



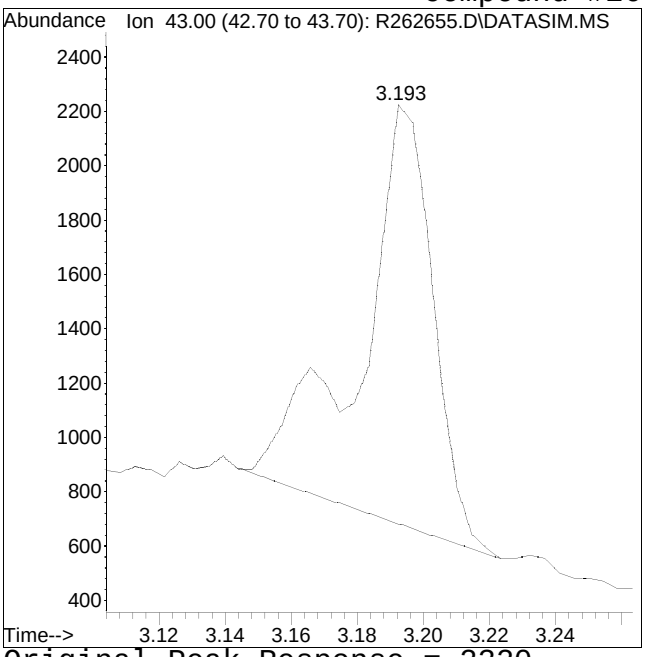
Manual Peak Response = 1512 M4

M4 = Poor automated baseline construction.

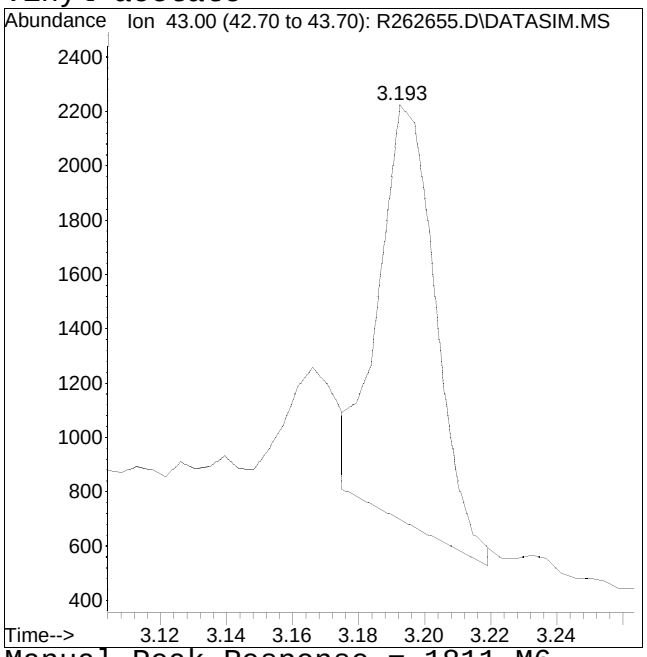
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 2320



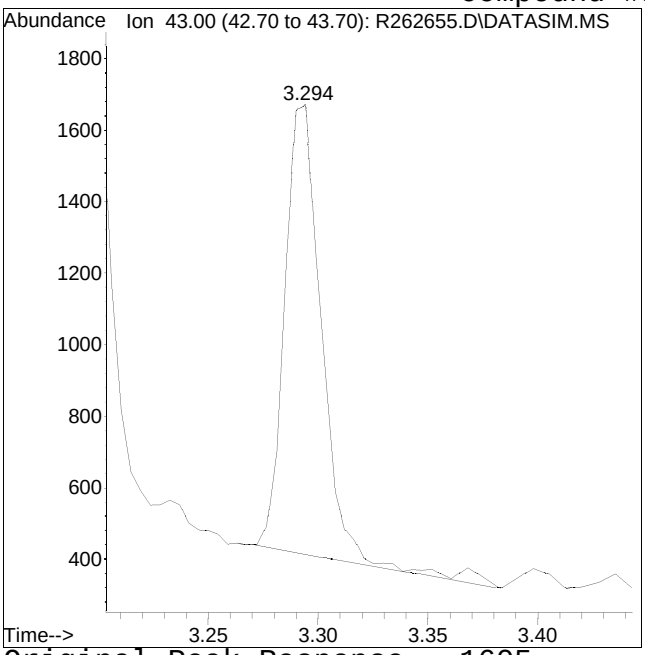
Manual Peak Response = 1811 M6

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

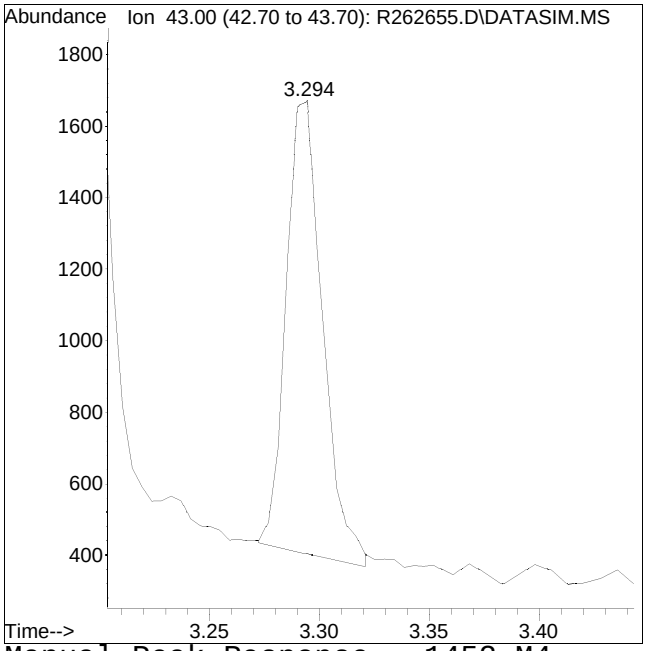
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #27: 2-butanone



Original Peak Response = 1605



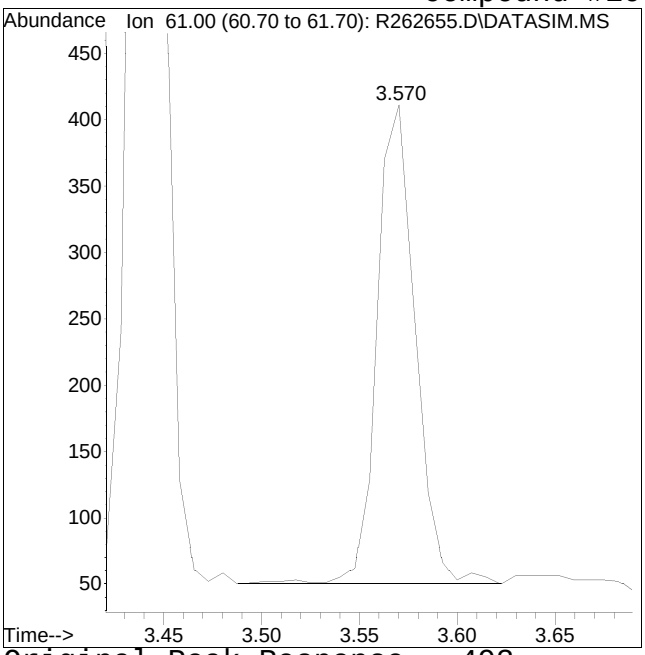
Manual Peak Response = 1452 M4

M4 = Poor automated baseline construction.

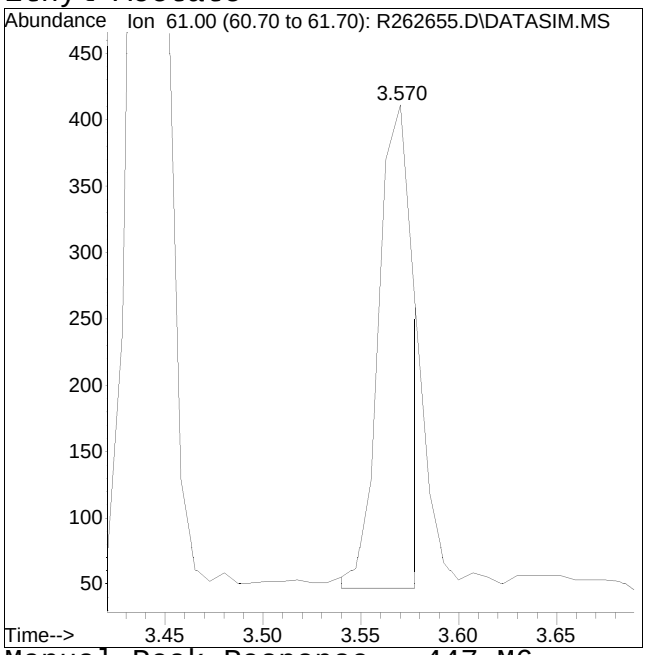
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 493



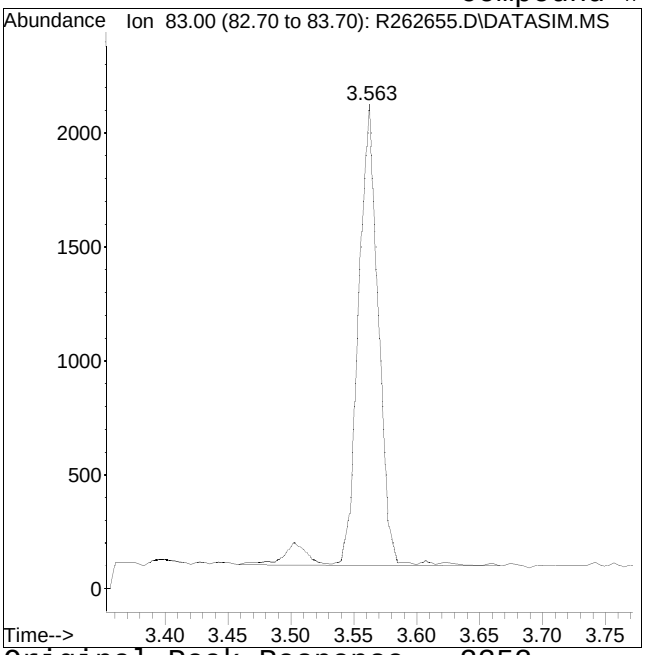
Manual Peak Response = 447 M6

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

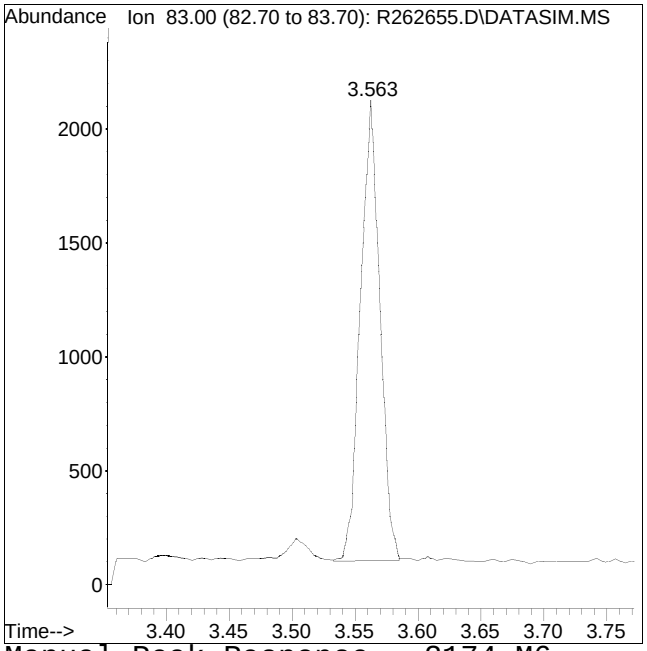
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #30: chloroform



Original Peak Response = 2352



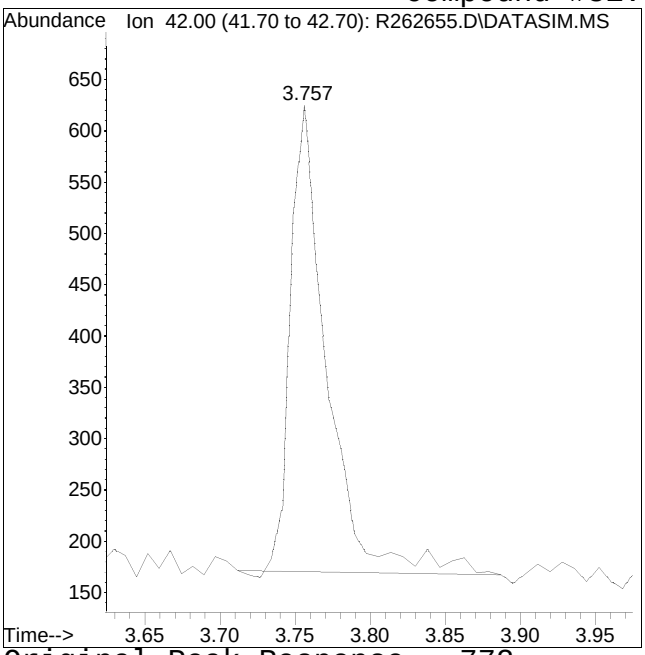
Manual Peak Response = 2174 M6

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

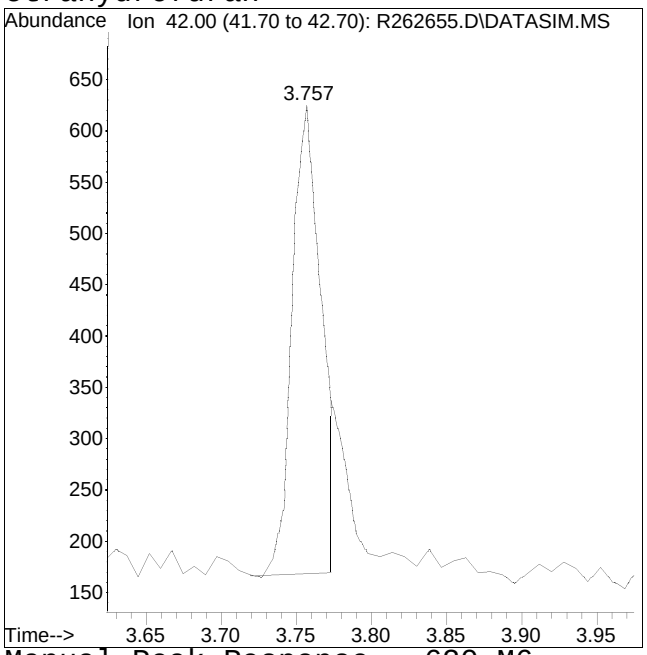
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 772



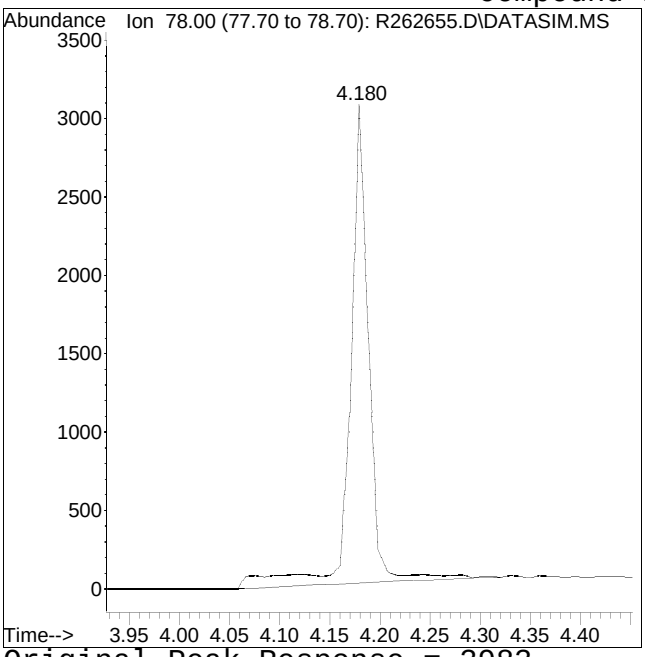
Manual Peak Response = 620 M6

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

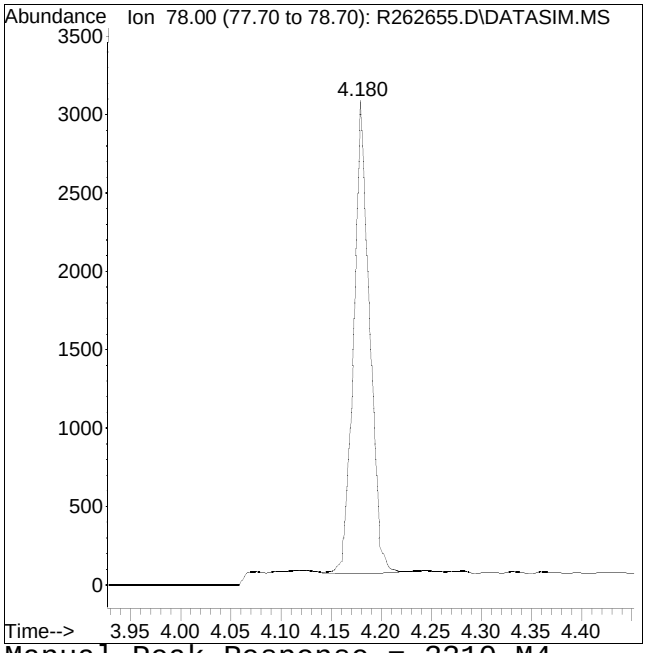
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #37: benzene



Original Peak Response = 3983



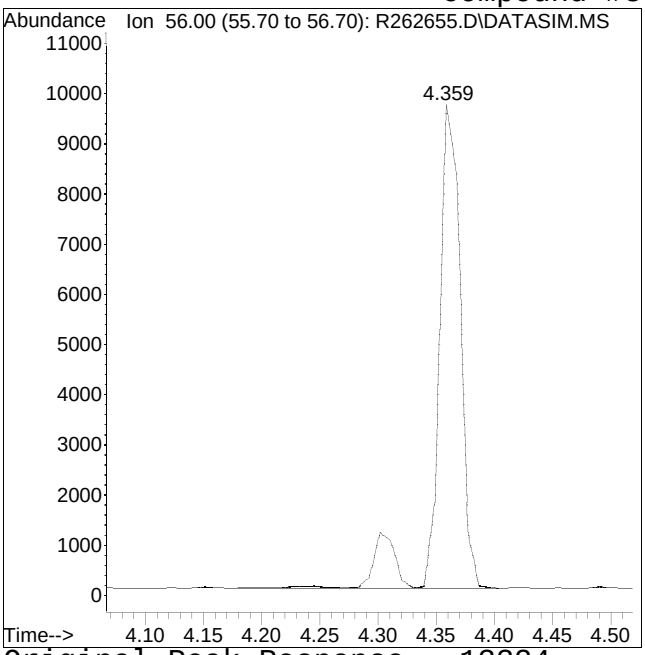
Manual Peak Response = 3310 M4

M4 = Poor automated baseline construction.

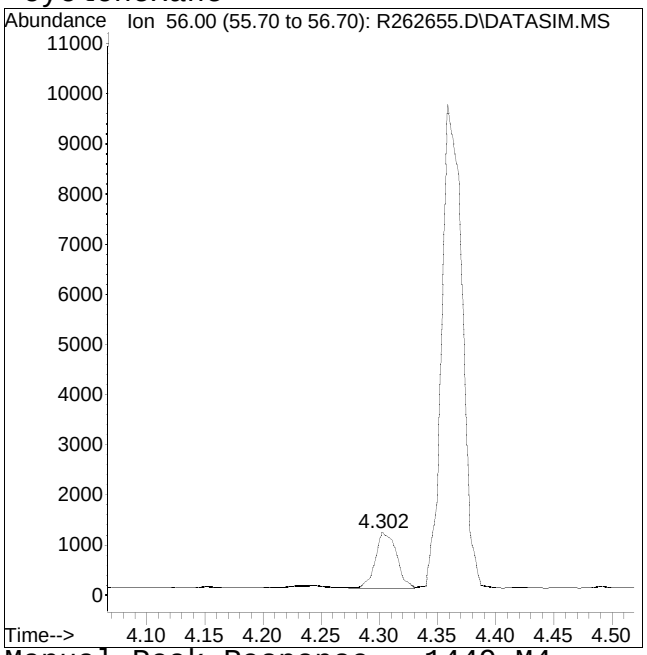
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #39: cyclohexane



Original Peak Response = 13324



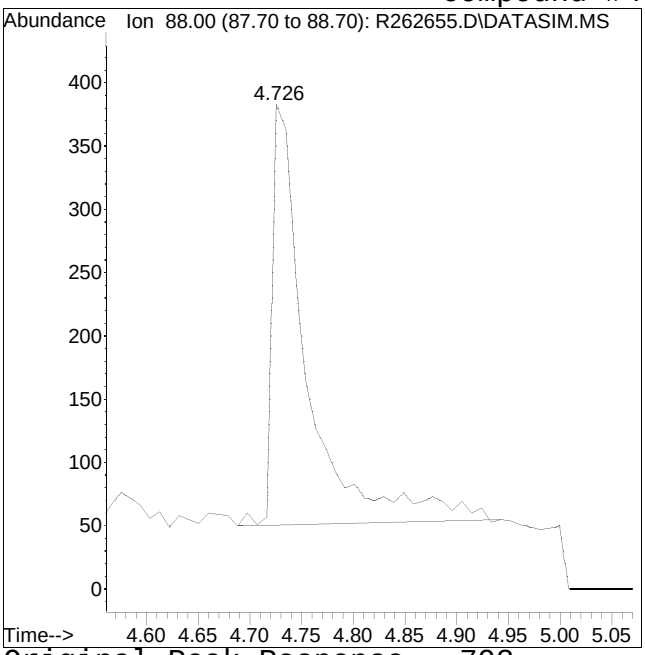
Manual Peak Response = 1449 M4

M4 = Poor automated baseline construction.

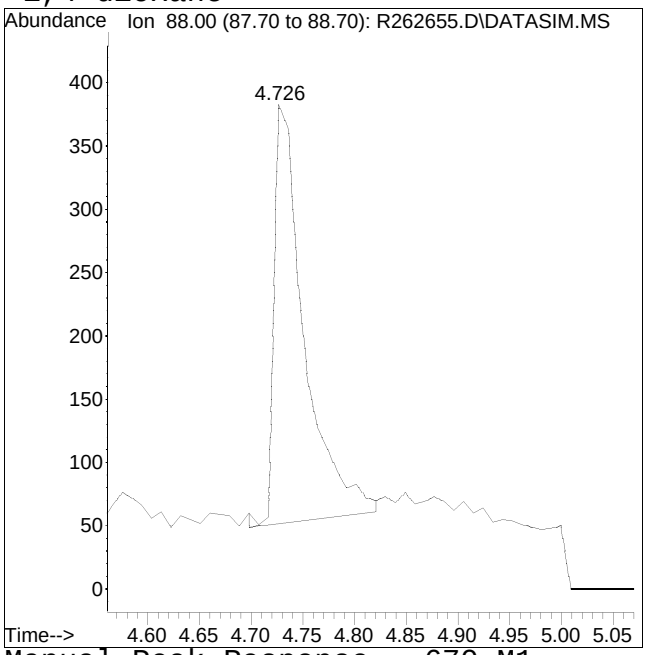
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #43: 1,4-dioxane



Original Peak Response = 793



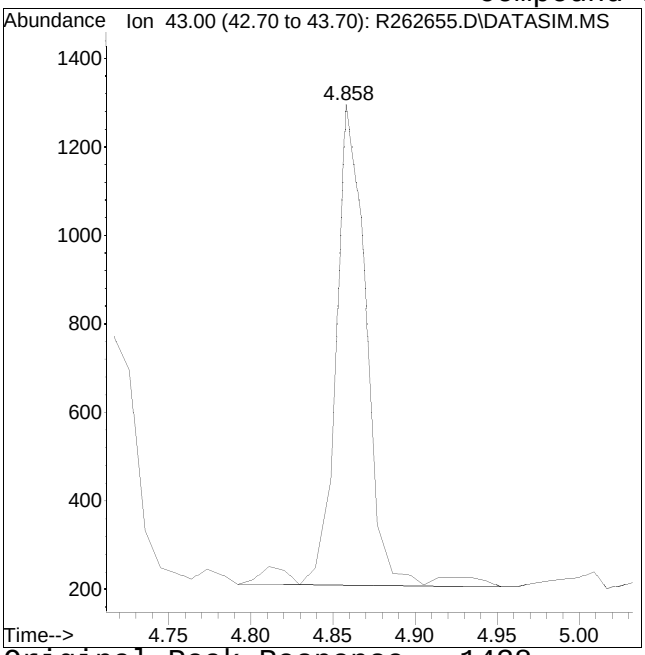
Manual Peak Response = 670 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

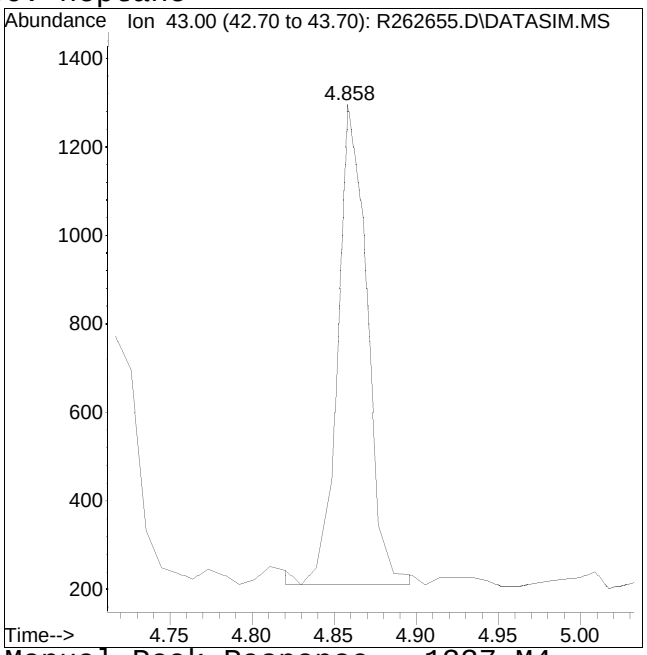
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #46: heptane



Original Peak Response = 1438



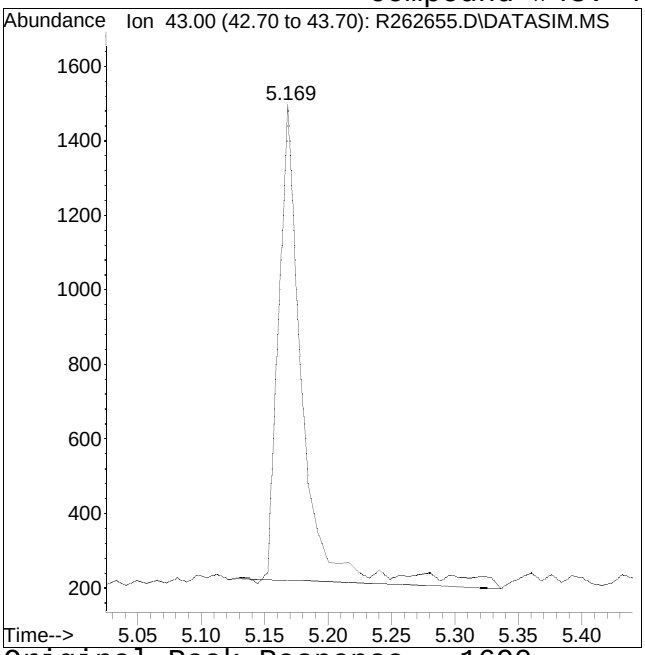
Manual Peak Response = 1337 M4

M4 = Poor automated baseline construction.

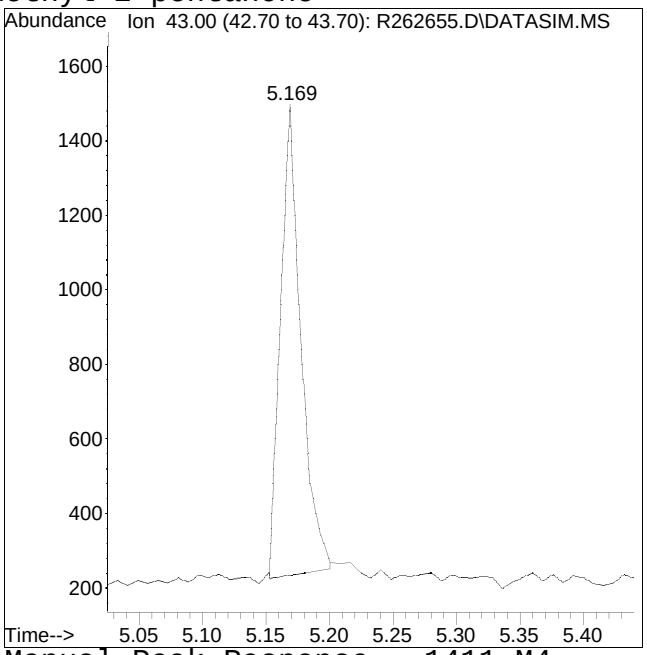
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 1690



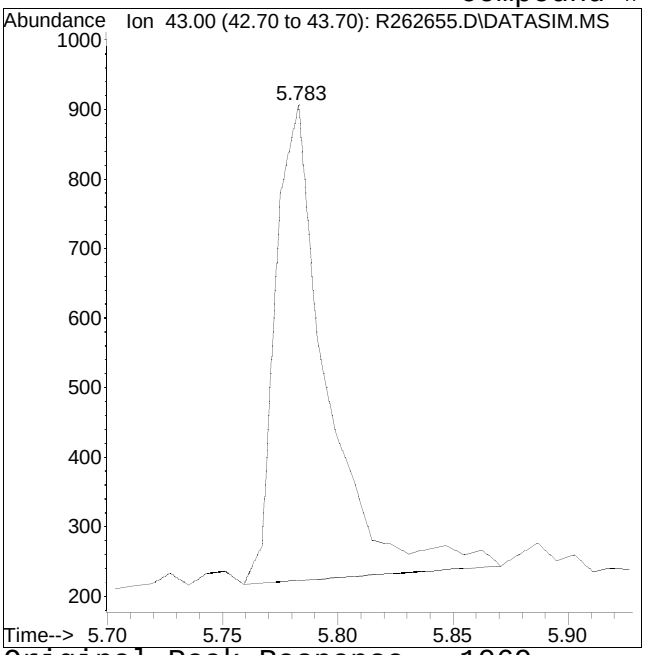
Manual Peak Response = 1411 M4

M4 = Poor automated baseline construction.

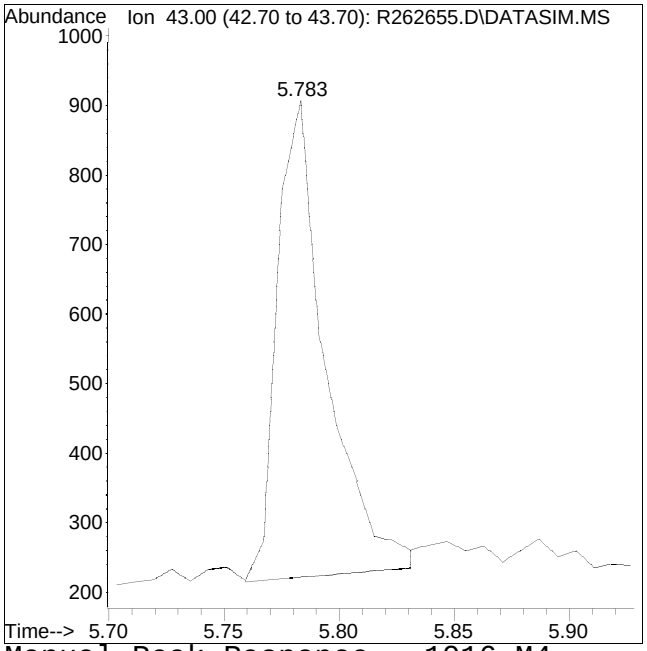
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #54: 2-hexanone



Original Peak Response = 1069



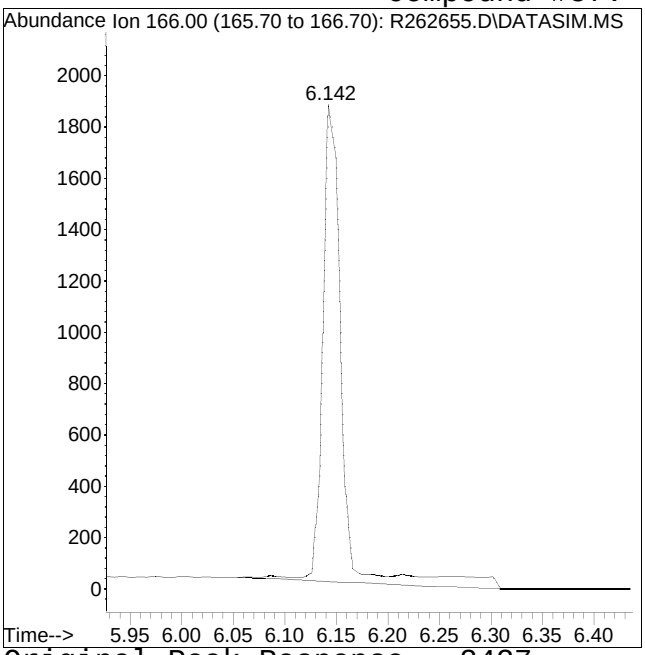
Manual Peak Response = 1016 M4

M4 = Poor automated baseline construction.

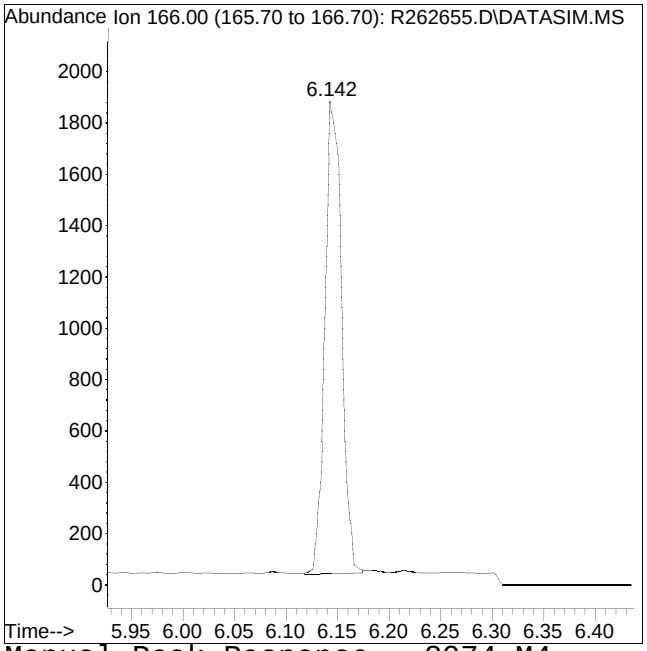
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #57: tetrachloroethene



Original Peak Response = 2427



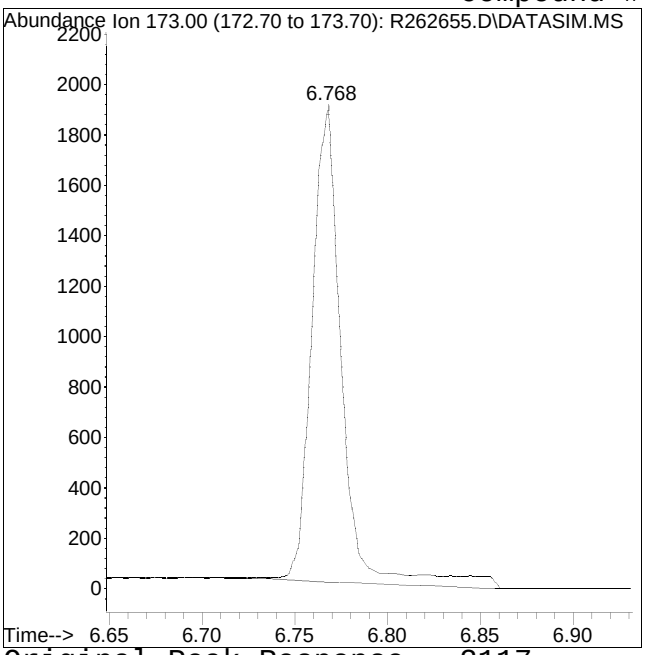
Manual Peak Response = 2074 M4

M4 = Poor automated baseline construction.

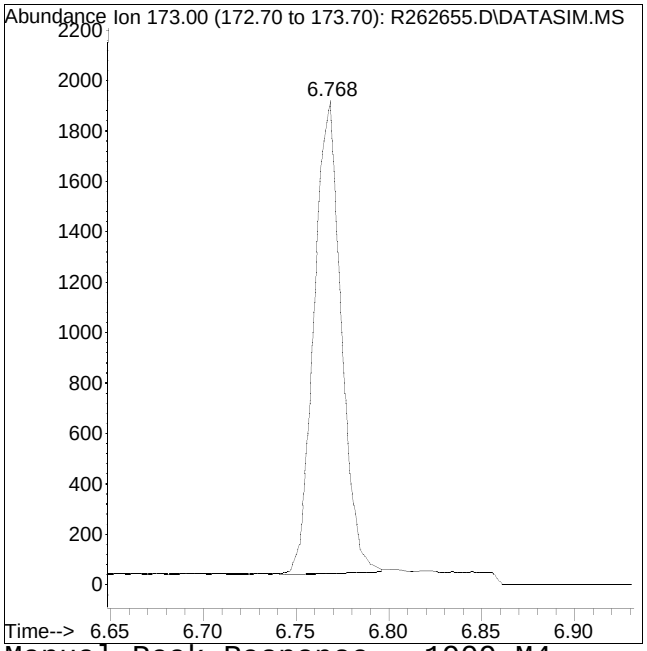
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #62: bromoform



Original Peak Response = 2117



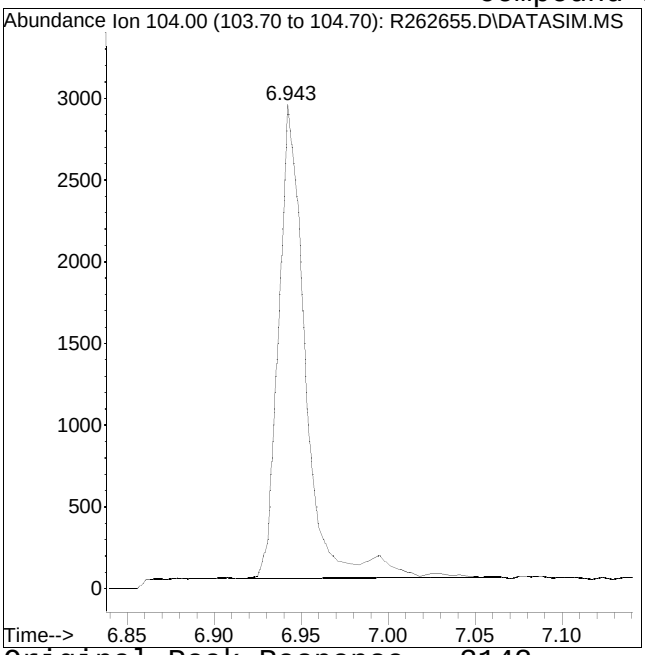
Manual Peak Response = 1909 M4

M4 = Poor automated baseline construction.

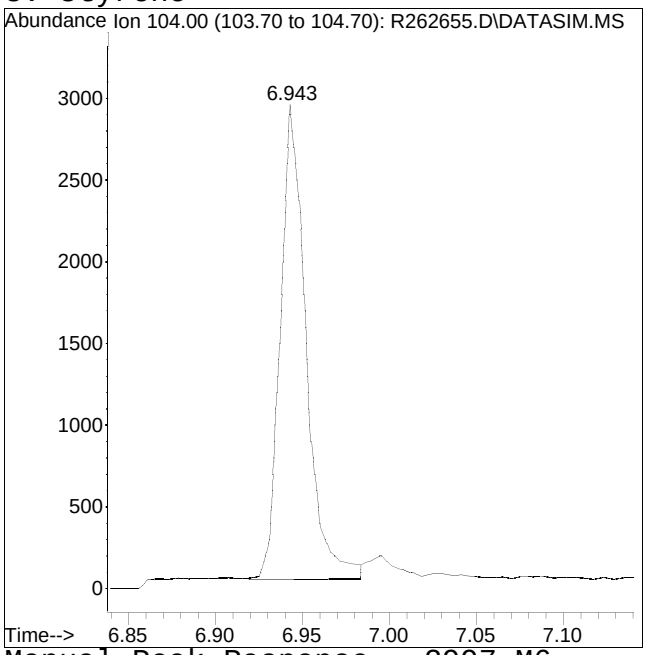
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #63: styrene



Original Peak Response = 3142



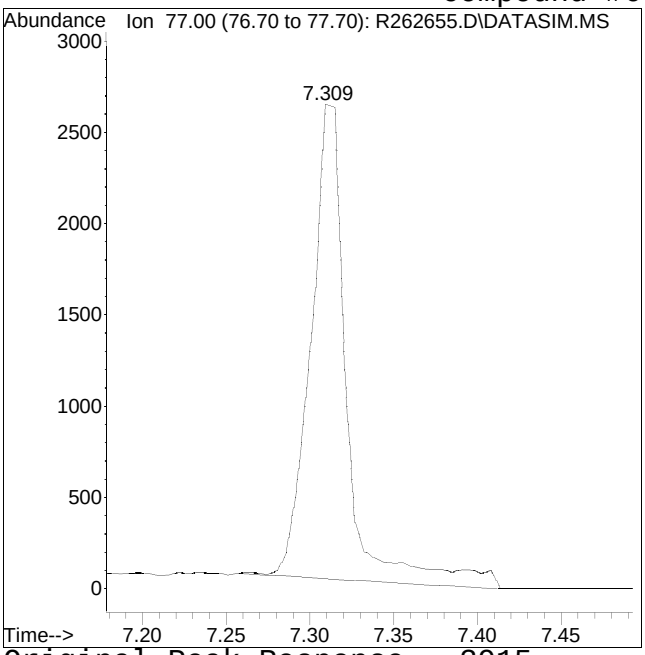
Manual Peak Response = 2997 M6

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

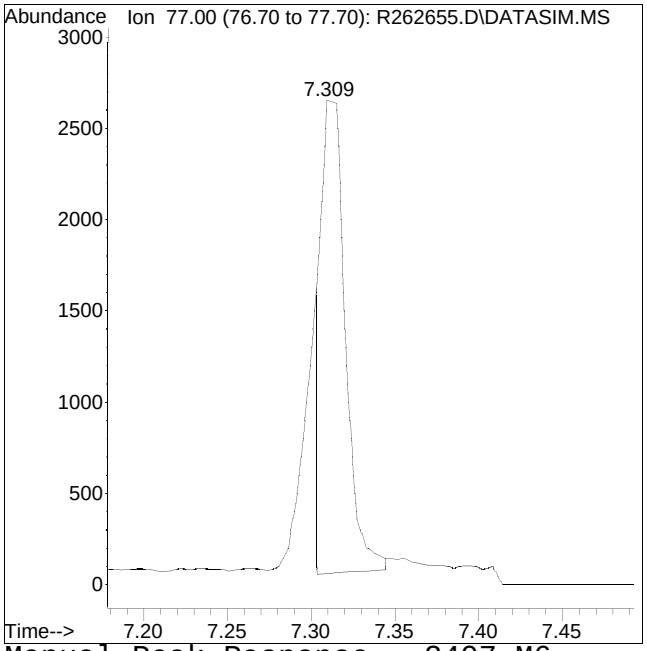
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 3915



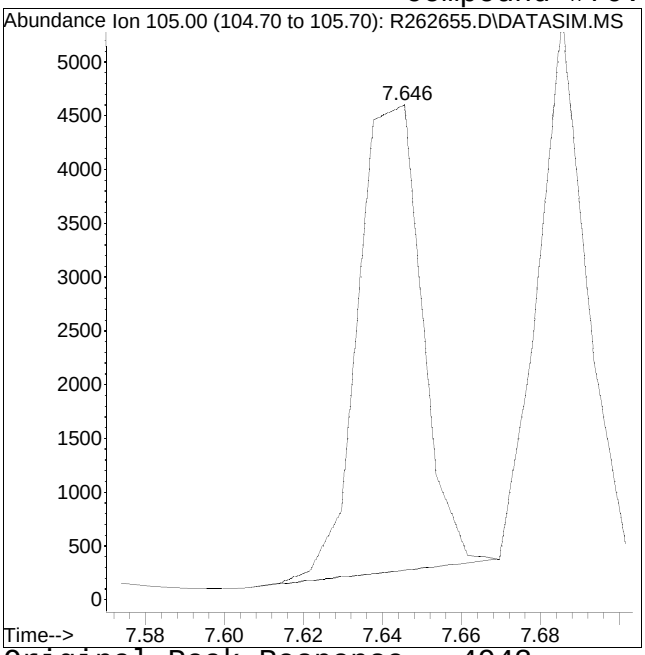
Manual Peak Response = 2407 M6

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

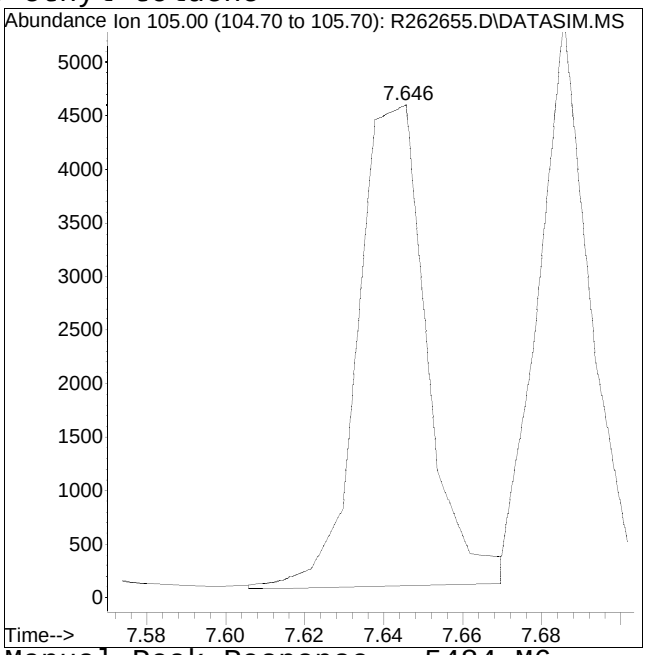
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 4943



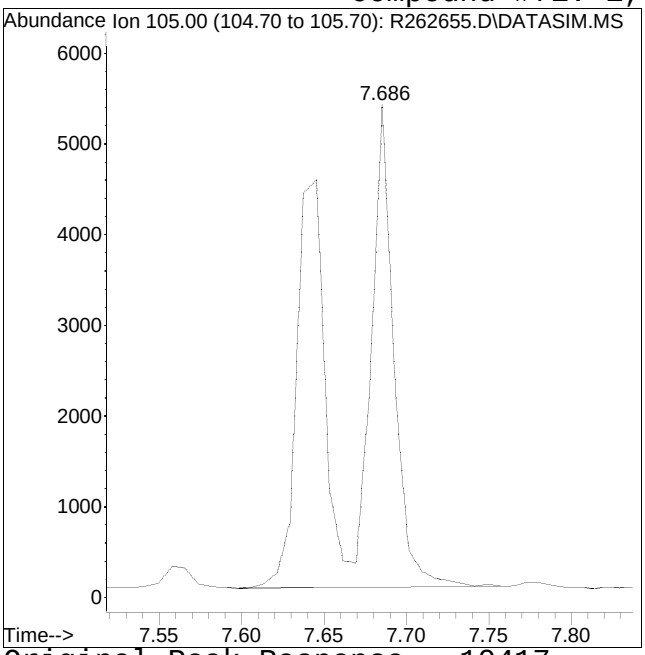
Manual Peak Response = 5484 M6

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

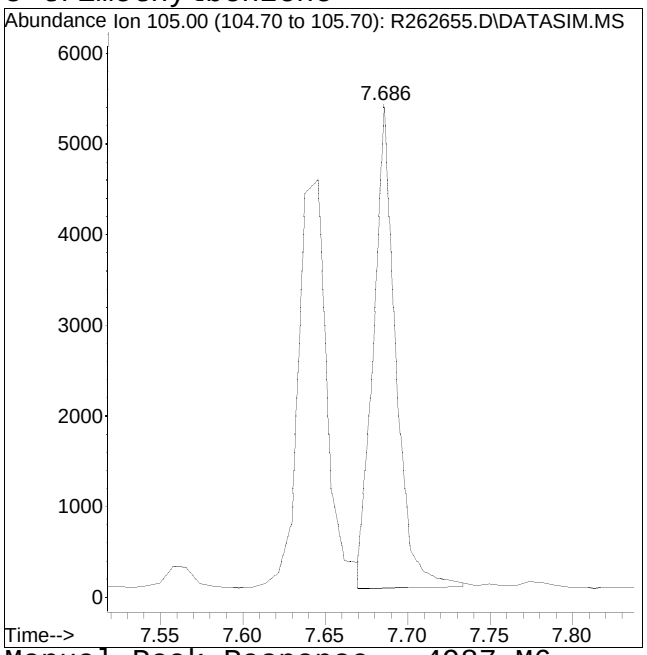
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 10417



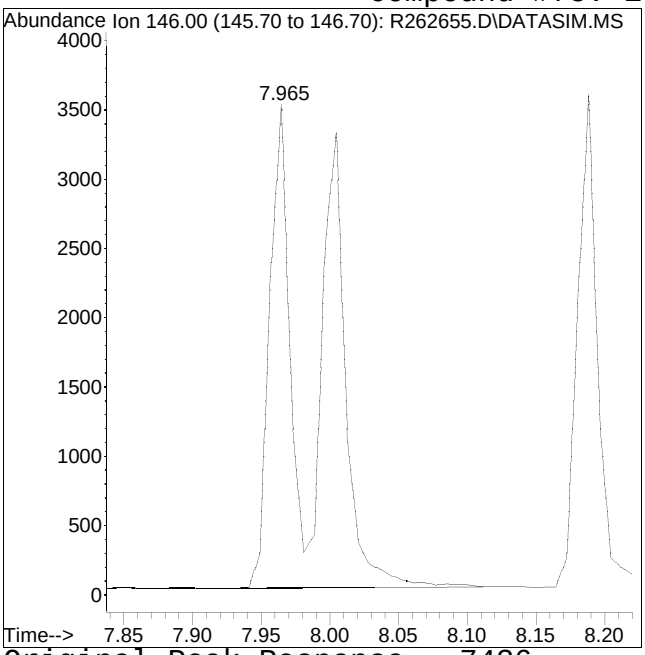
Manual Peak Response = 4987 M6

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

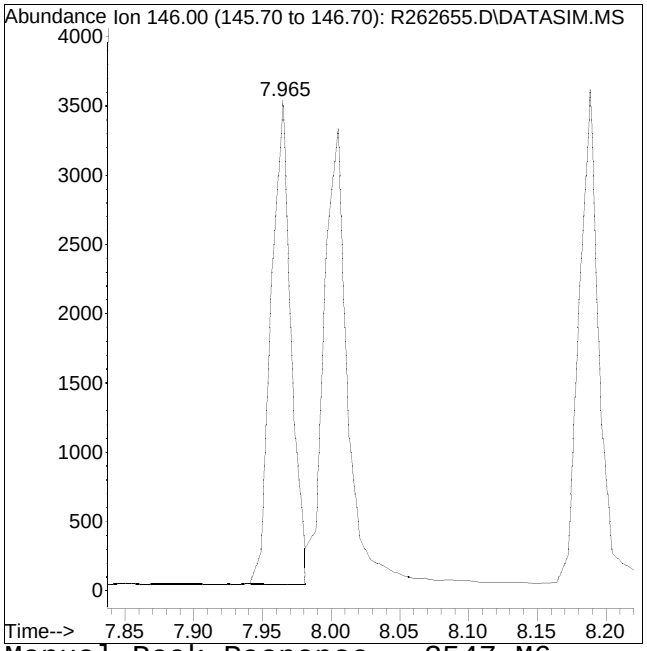
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 7436



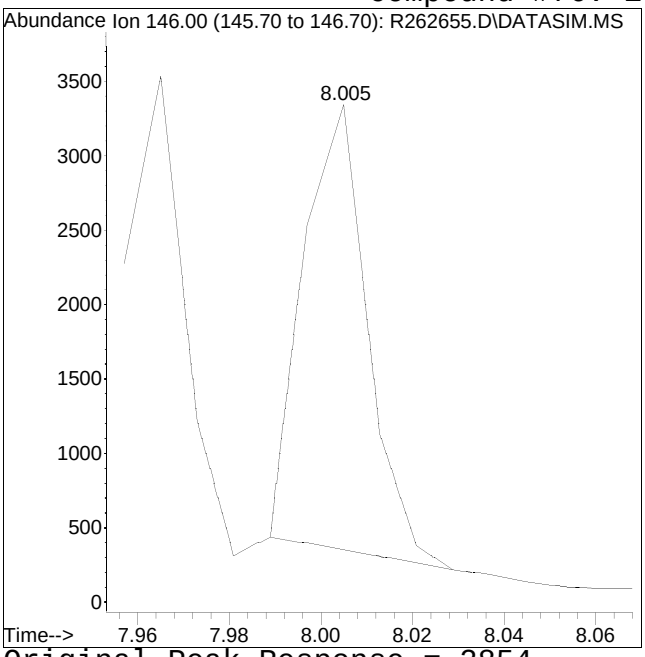
Manual Peak Response = 3547 M6

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

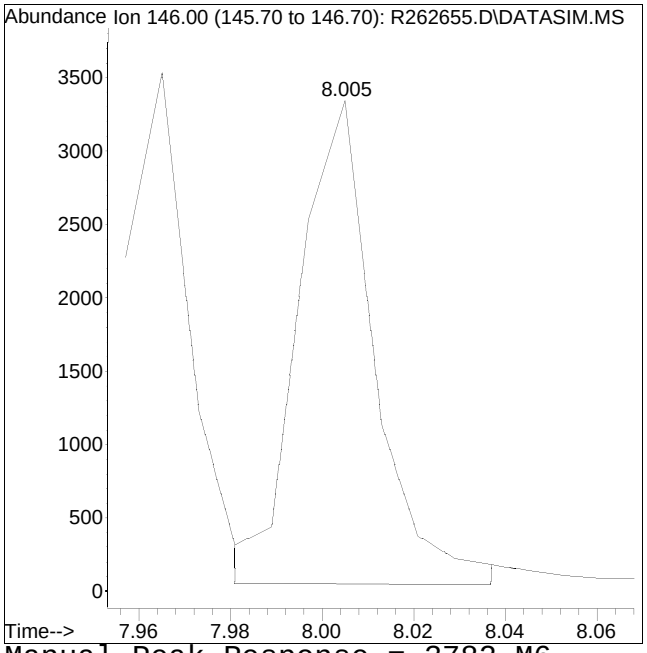
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 2854



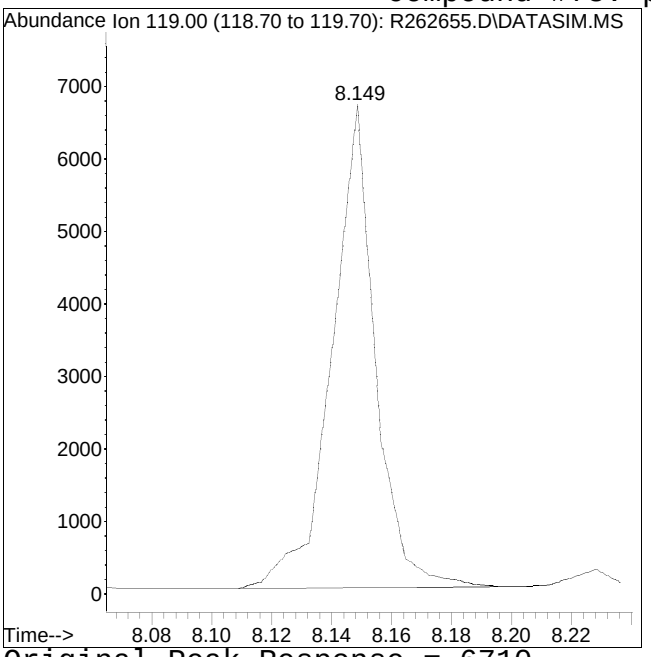
Manual Peak Response = 3782 M6

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

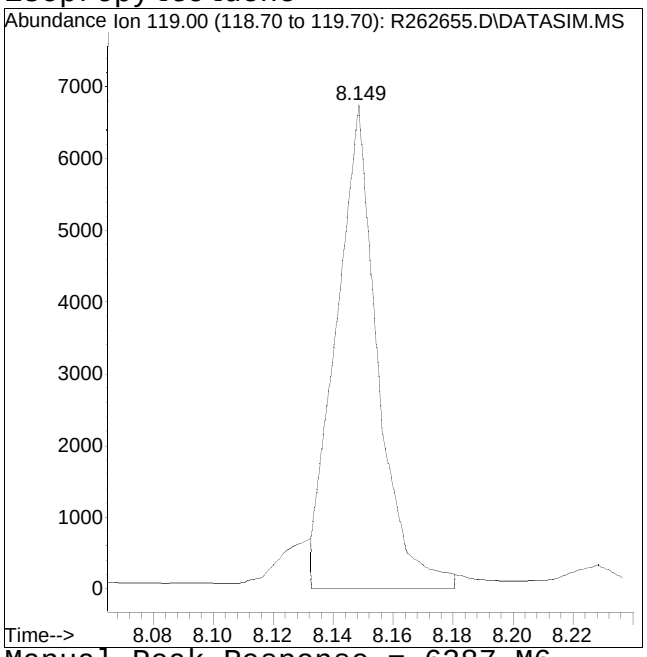
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262655.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 1:31 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.05 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 6710



Manual Peak Response = 6387 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\04\0402SIM_I\
Data File : R262656.D
Acq On : 03 Apr 2025 02:03 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.1
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	221909	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 104.41%			
33) 1,4-difluorobenzene	4.368	114	957015	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 103.59%			
51) chlorobenzene-D5	6.452	54	108245	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 103.55%			
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	475	0.007	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.07%#			
67) bromofluorobenzene	0.000	95	0d	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
Target Compounds						Qvalue
2) propylene	2.010	41	1265	0.110	ppbV	88
3) dichlorodifluoromethane	2.026	85	5076	0.109	ppbV	100
4) chloromethane	2.076	50	1480M4	0.113	ppbV	
5) Freon-114	2.109	85	5261	0.109	ppbV	98
6) vinyl chloride	2.147	62	1870M4	0.110	ppbV	
7) 1,3-butadiene	2.191	54	1185	0.107	ppbV #	8
8) bromomethane	2.279	94	1915M4	0.110	ppbV	
9) chloroethane	2.328	64	1054	0.113	ppbV #	66
10) ethanol	2.367	31	7856	1.184	ppbV	98
11) vinyl bromide	2.439	106	1977M4	0.109	ppbV	
12) acrolein	2.468	56	800M6	0.115	ppbV	
13) acetone	2.507	43	10623	0.629	ppbV #	98
14) trichlorofluoromethane	2.553	101	4653	0.111	ppbV	100
15) isopropyl alcohol	2.575	45	7273	0.380	ppbV	99
16) acrylonitrile	2.632	53	1365M4	0.120	ppbV	
17) 1,1-dichloroethene	2.729	61	2512M4	0.109	ppbV	
18) tertiary butyl alcohol	2.748	59	3629	0.119	ppbV #	38
19) methylene chloride	2.762	49	1999M4	0.140	ppbV	
20) 3-chloropropene	2.796	41	1503	0.110	ppbV	98
21) carbon disulfide	2.848	76	4950	0.110	ppbV #	77
22) Freon 113	2.848	101	4040	0.111	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	2275	0.109	ppbV	99
24) 1,1-dichloroethane	3.131	63	2993	0.108	ppbV #	79

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262656.D
Acq On : 03 Apr 2025 02:03 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.1
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	3.170	73	4618	0.110	ppbV #	80
26) vinyl acetate	3.197	43	3383M6	0.120	ppbV	
27) 2-butanone	3.294	43	2853	0.082	ppbV #	89
28) cis-1,2-dichloroethene	3.443	61	2536	0.107	ppbV	99
29) Ethyl Acetate	3.570	61	905M6	0.150	ppbV	
30) chloroform	3.563	83	4283M4	0.109	ppbV	
31) Tetrahydrofuran	3.749	42	1349M6	0.102	ppbV	
32) 1,2-dichloroethane	3.871	62	2376	0.107	ppbV #	94
34) hexane	3.548	57	4141	0.174	ppbV #	60
36) 1,1,1-trichloroethane	3.985	97	4448	0.110	ppbV	97
37) benzene	4.180	78	6689M4	0.111	ppbV	
38) carbon tetrachloride	4.255	117	4182	0.105	ppbV	99
39) cyclohexane	4.312	56	2653M4	0.111	ppbV	
40) Dibromomethane	4.547	93	2690	0.114	ppbV #	99
41) 1,2-dichloropropane	4.566	63	2190	0.106	ppbV	99
42) bromodichloromethane	4.651	83	4204	0.106	ppbV	99
43) 1,4-dioxane	4.726	88	1257	0.094	ppbV	96
44) trichloroethene	4.689	130	3309	0.105	ppbV	99
45) 2,2,4-trimethylpentane	4.726	57	8455	0.112	ppbV	99
46) heptane	4.858	43	2602M4	0.107	ppbV	
47) cis-1,3-dichloropropene	5.113	75	3498	0.106	ppbV #	88
48) 4-methyl-2-pentanone	5.169	43	3249M4	0.099	ppbV	
49) trans-1,3-dichloropropene	5.376	75	2524M4	0.095	ppbV	
50) 1,1,2-trichloroethane	5.456	97	3013	0.108	ppbV	100
52) toluene	5.592	91	8853	0.115	ppbV	98
54) 2-hexanone	5.775	43	2345M4	0.076	ppbV	
55) dibromochloromethane	5.783	129	4401	0.101	ppbV	98
56) 1,2-dibromoethane	5.903	107	4490	0.105	ppbV	98
57) tetrachloroethene	6.142	166	4346	0.109	ppbV	99
58) 1,1,1,2-tetrachloroethane	6.474	131	3414	0.103	ppbV #	99
59) chlorobenzene	6.474	112	7197	0.108	ppbV #	38
60) ethylbenzene	6.676	91	10591	0.106	ppbV	100
61) m+p-xylene	6.768	91	17672	0.220	ppbV	99
62) bromoform	6.768	173	4144	0.100	ppbV	97
63) styrene	6.943	104	6029	0.095	ppbV	98
64) 1,1,2,2-tetrachloroethane	6.989	83	5961	0.103	ppbV	99
65) o-xylene	6.995	91	8513	0.111	ppbV	99
66) 1,2,3-Trichloropropane	7.053	75	4431	0.109	ppbV	99
68) isopropylbenzene	7.298	105	12690	0.113	ppbV	97
69) Bromobenzene	7.309	77	4772M6	0.102	ppbV	

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262656.D
Acq On : 03 Apr 2025 02:03 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.1
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

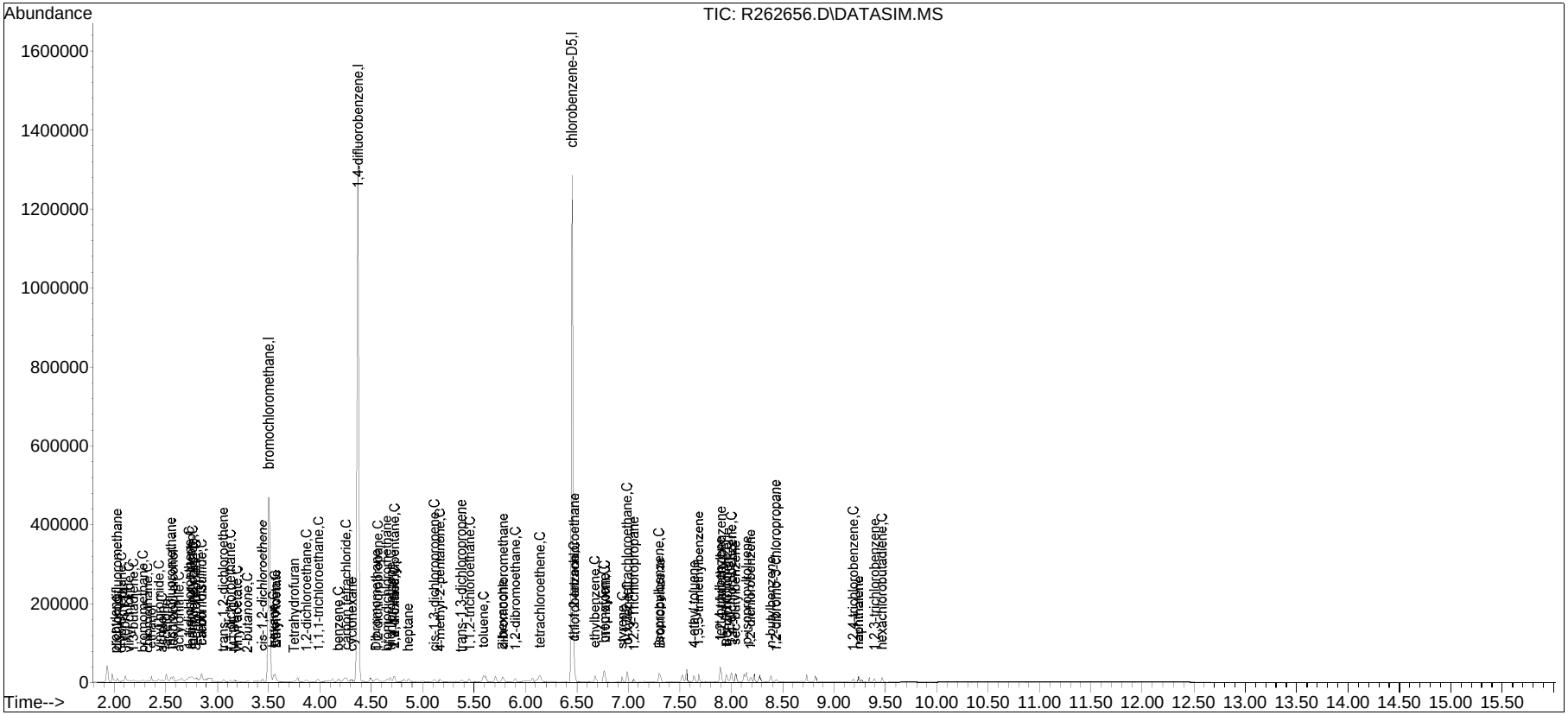
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	11358M4	0.102	ppbV		
71) 1,3,5-trimethylbenzene	7.686	105	10103M6	0.112	ppbV		
72) tert-butylbenzene	7.893	119	11282	0.109	ppbV		99
73) 1,2,4-trimethylbenzene	7.901	105	10246	0.107	ppbV		99
74) Benzyl Chloride	7.957	91	6197	0.083	ppbV		96
75) 1,3-dichlorobenzene	7.965	146	7474M6	0.102	ppbV		
76) 1,4-dichlorobenzene	8.005	146	8020M6	0.109	ppbV		
77) sec-butylbenzene	8.045	105	15077	0.109	ppbV		100
78) p-isopropyltoluene	8.149	119	12352M6	0.102	ppbV		
79) 1,2-dichlorobenzene	8.189	146	7445	0.105	ppbV		98
80) n-butylbenzene	8.388	91	11416	0.102	ppbV		98
81) 1,2-dibromo-3-chloropr...	8.436	75	2628	0.096	ppbV	#	87
82) 1,2,4-trichlorobenzene	9.192	180	5489	0.083	ppbV		99
83) naphthalene	9.239	128	13534	0.087	ppbV		99
84) 1,2,3-trichlorobenzene	9.397	180	5443	0.071	ppbV		100
85) hexachlorobutadiene	9.467	225	4682	0.087	ppbV		98

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262656.D
Acq On : 03 Apr 2025 02:03 am
Operator : AIRLAB26:JJT
Sample : ITO15-SIMSTD0.1
Misc : WG2049330
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Apr 03 13:19:15 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

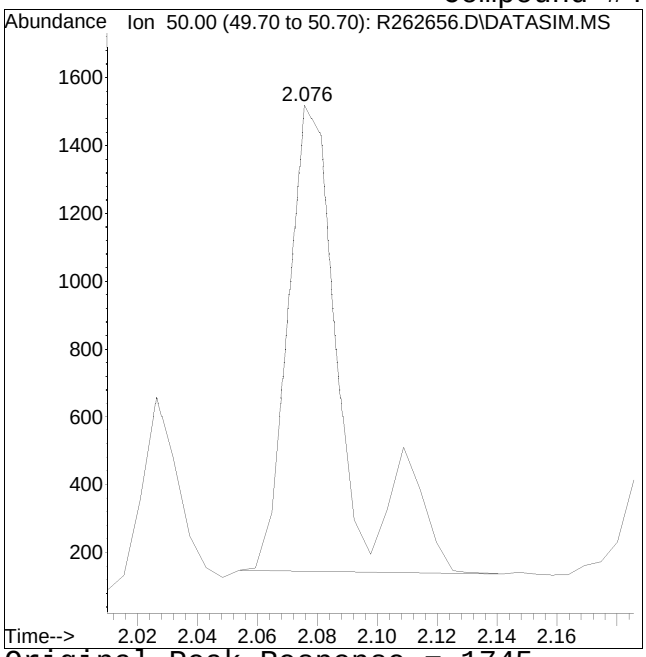


Manual Integration Report

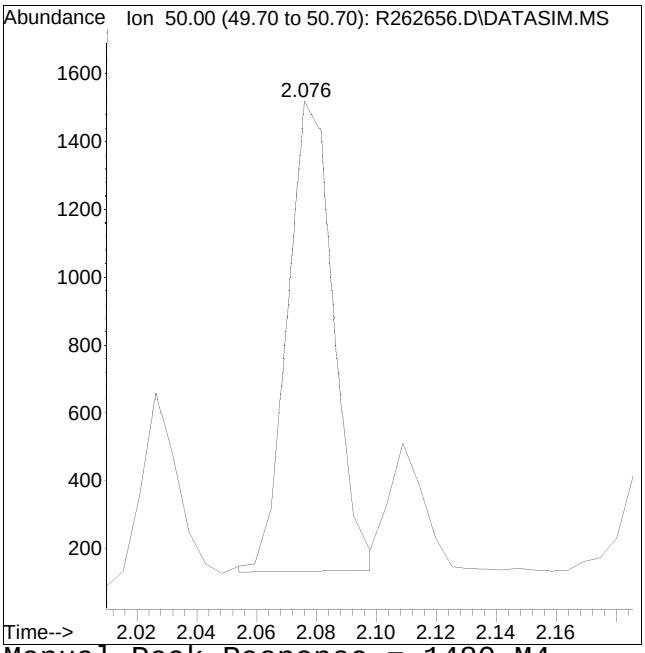
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262656.D
Date Inj'd : 4/3/2025 2:03 am
Sample : ITO15-SIMSTD0.1

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 1745



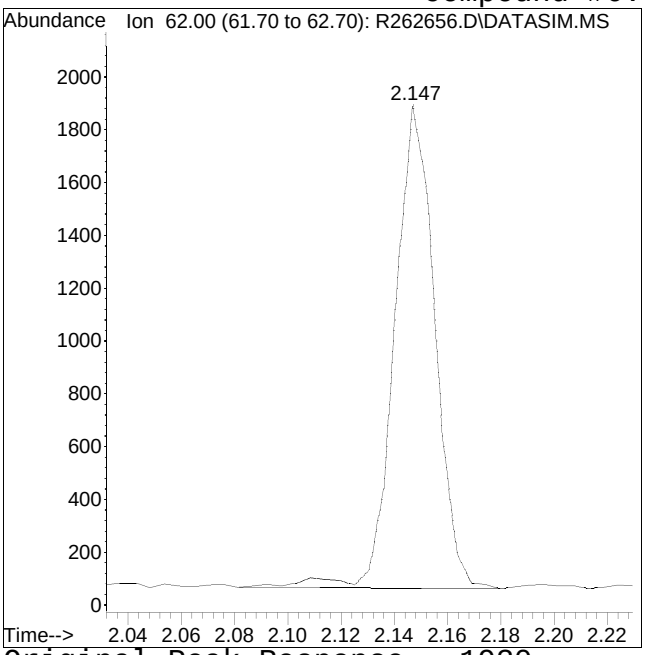
Manual Peak Response = 1480 M4

M4 = Poor automated baseline construction.

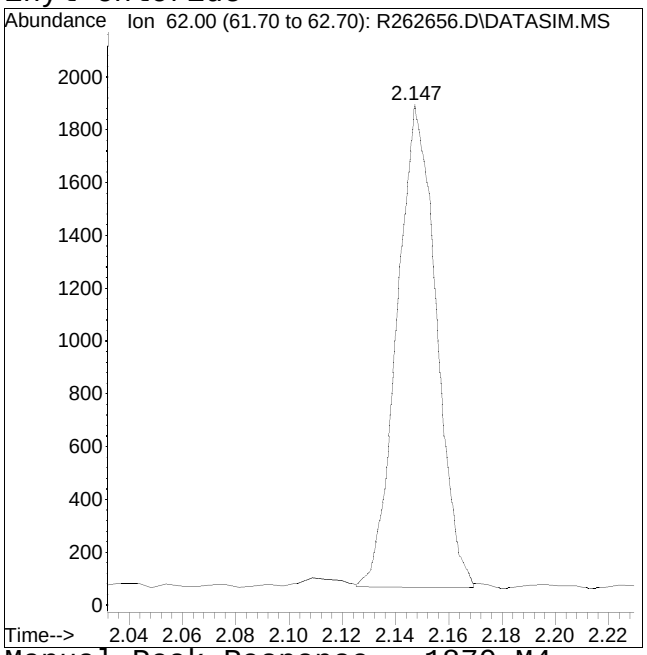
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #6: vinyl chloride



Original Peak Response = 1930



Manual Peak Response = 1870 M4

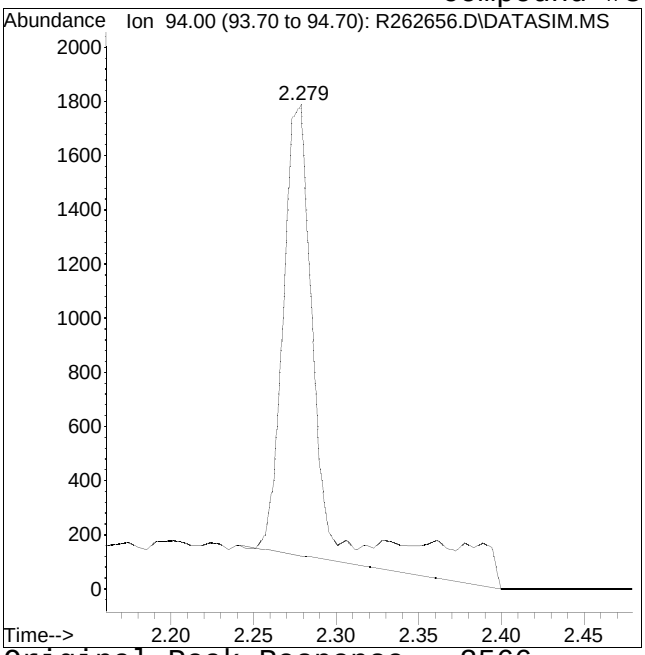
M4 = Poor automated baseline construction.

Manual Integration Report

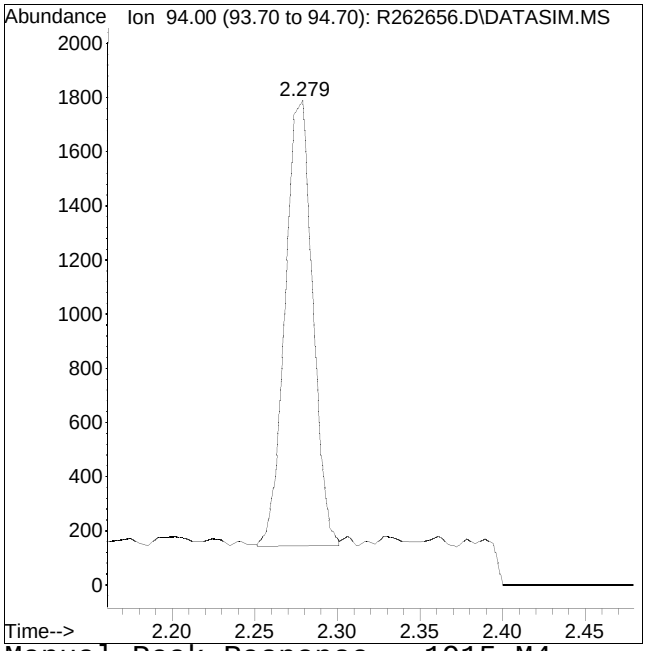
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262656.D
Date Inj'd : 4/3/2025 2:03 am
Sample : ITO15-SIMSTD0.1

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #8: bromomethane



Original Peak Response = 2566



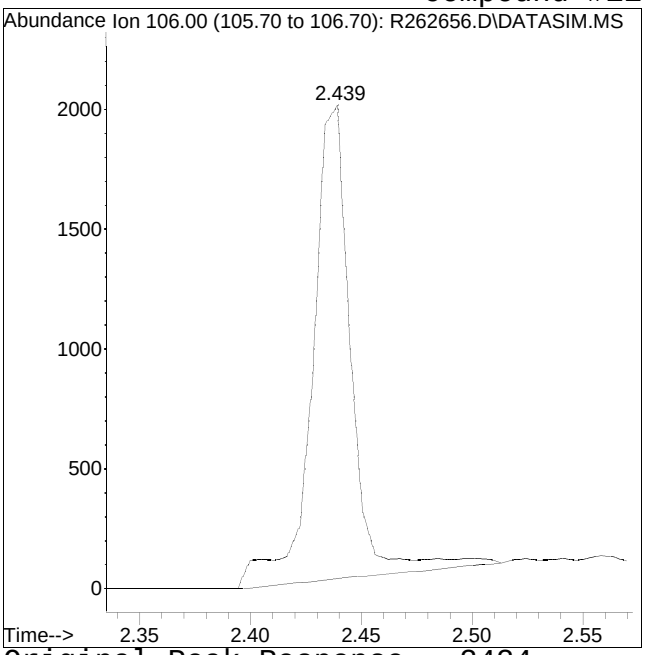
Manual Peak Response = 1915 M4

M4 = Poor automated baseline construction.

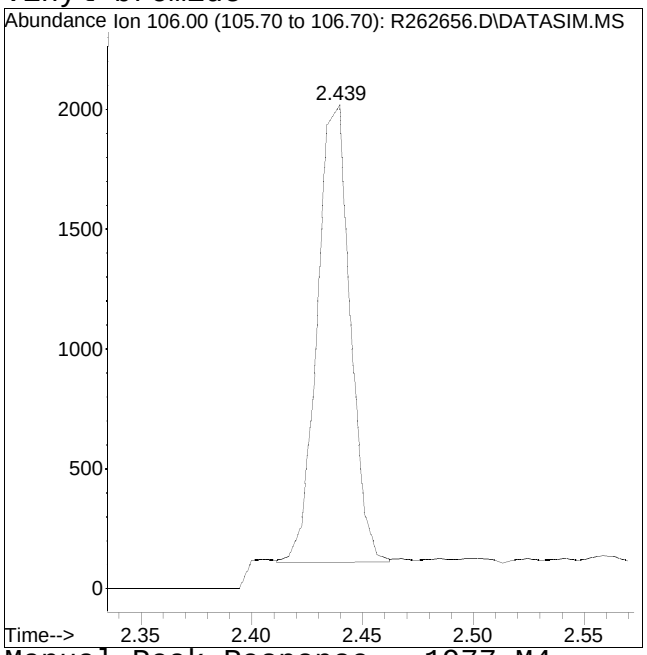
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #11: vinyl bromide



Original Peak Response = 2424



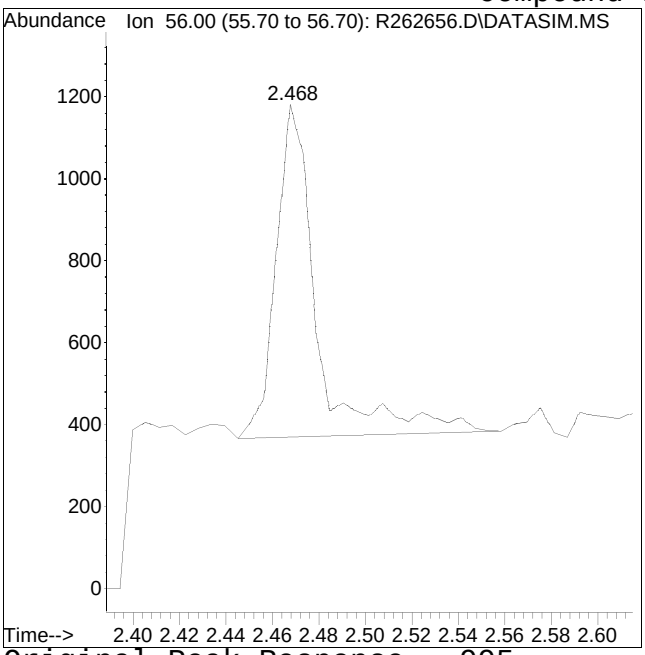
Manual Peak Response = 1977 M4

M4 = Poor automated baseline construction.

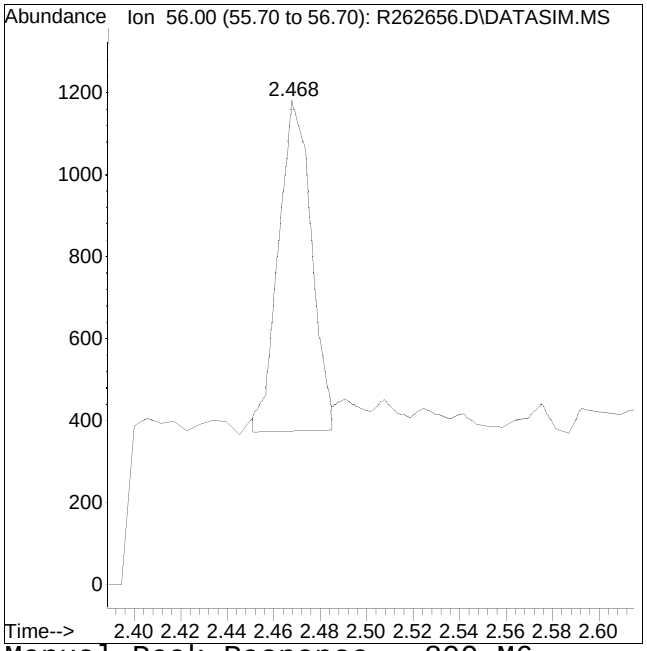
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #12: acrolein



Original Peak Response = 995



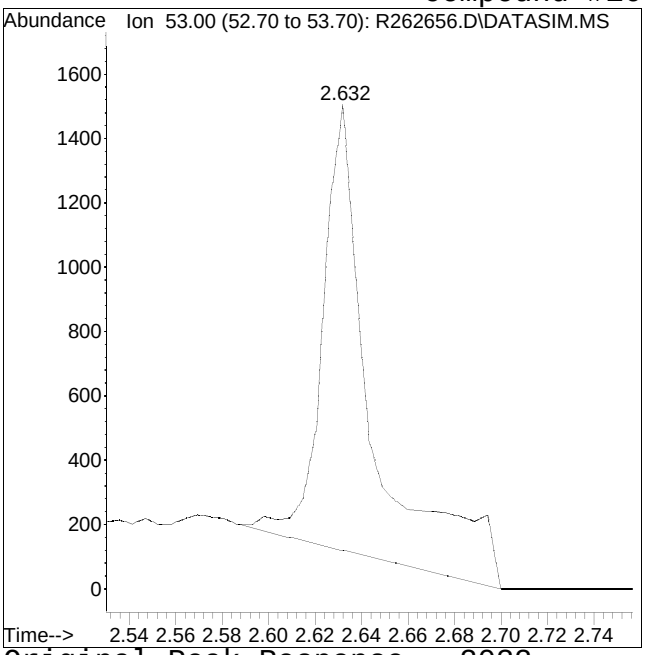
Manual Peak Response = 800 M6

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

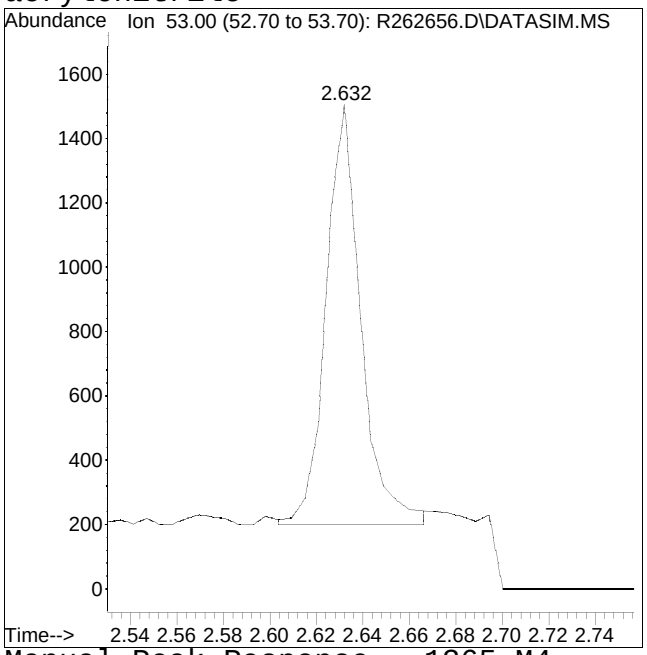
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 2032



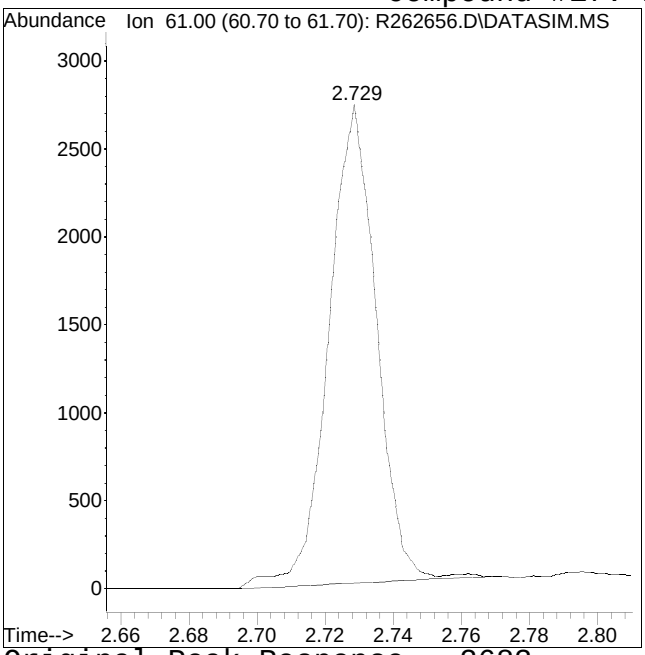
Manual Peak Response = 1365 M4

M4 = Poor automated baseline construction.

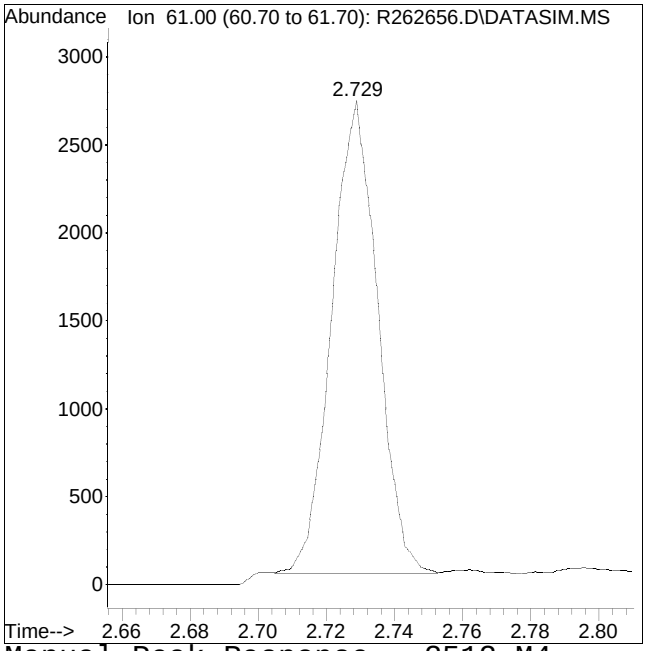
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 2683



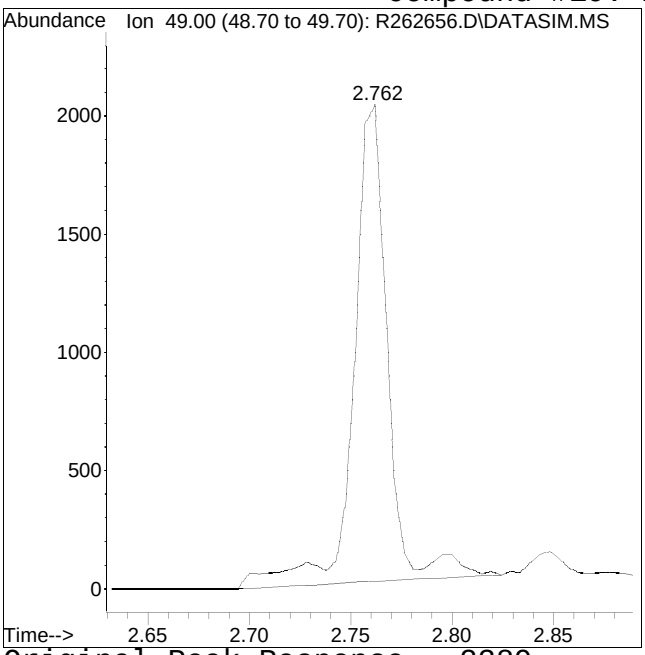
Manual Peak Response = 2512 M4

M4 = Poor automated baseline construction.

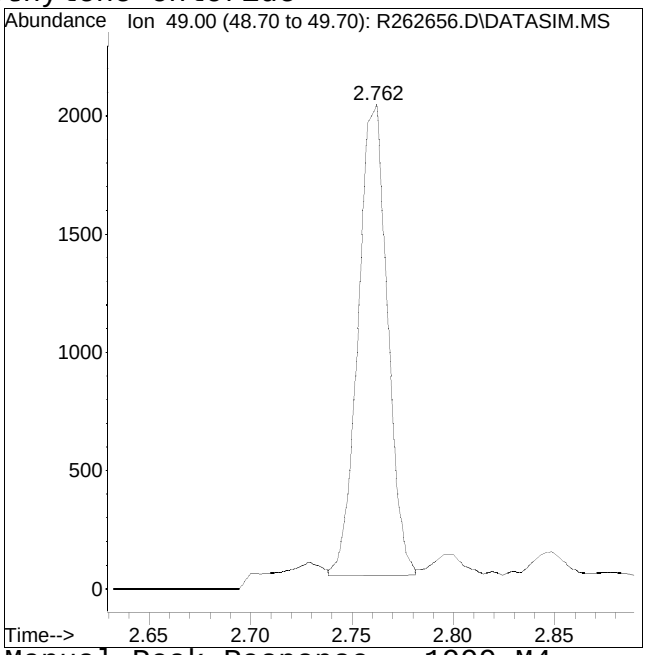
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 2389



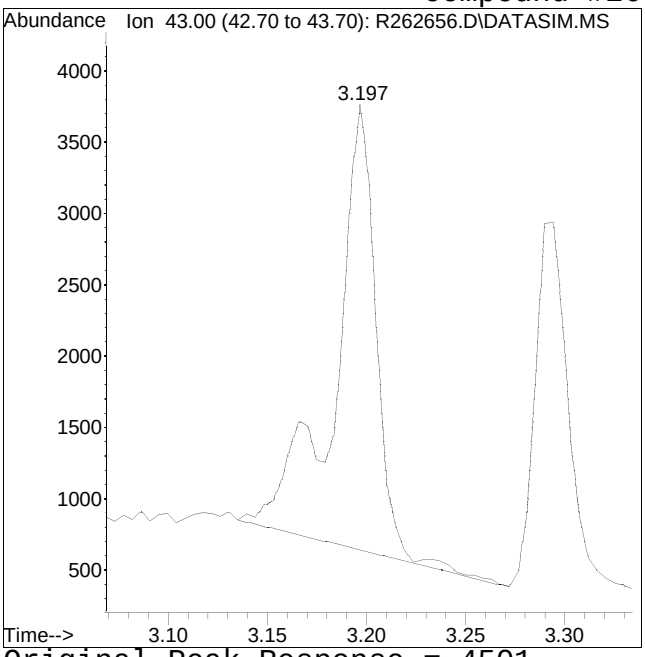
Manual Peak Response = 1999 M4

M4 = Poor automated baseline construction.

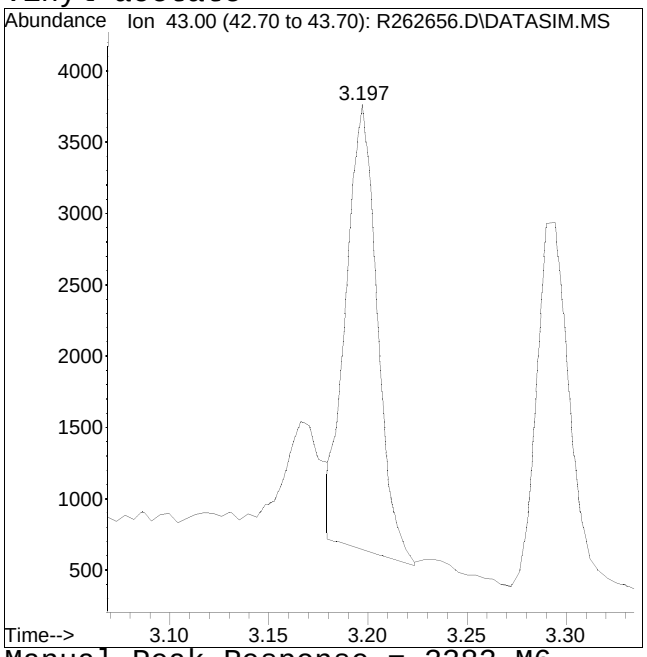
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 4501



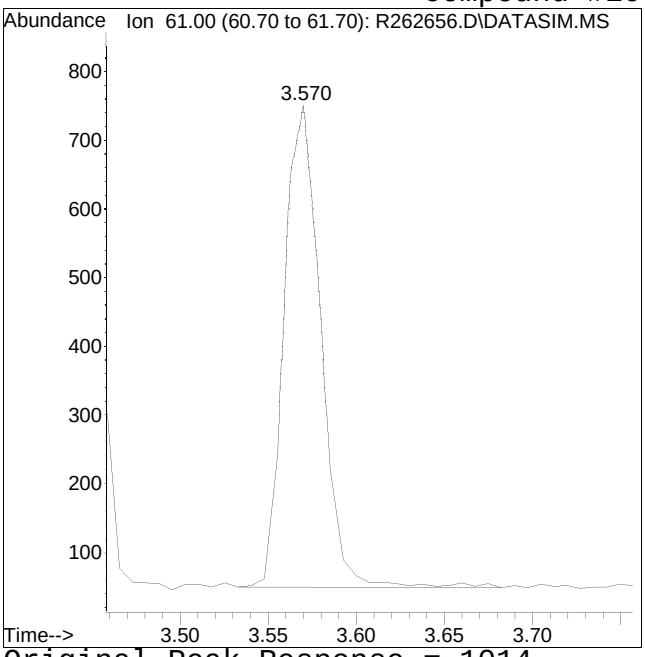
Manual Peak Response = 3383 M6

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

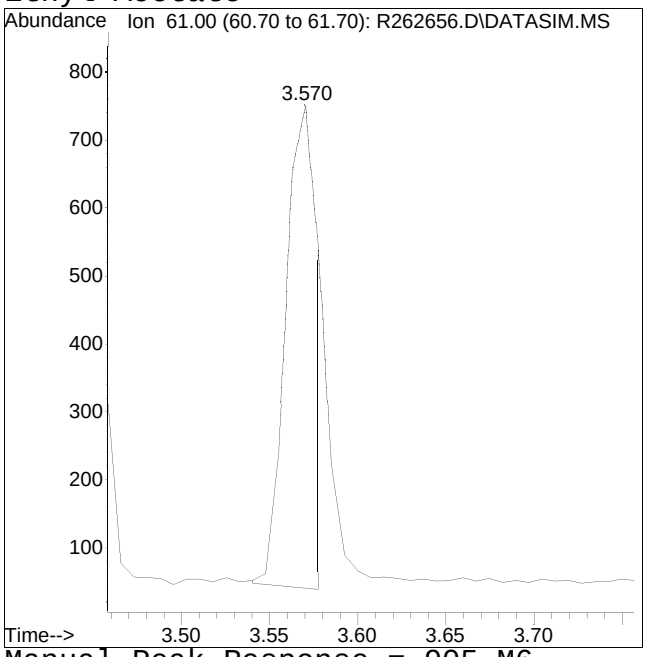
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 1014



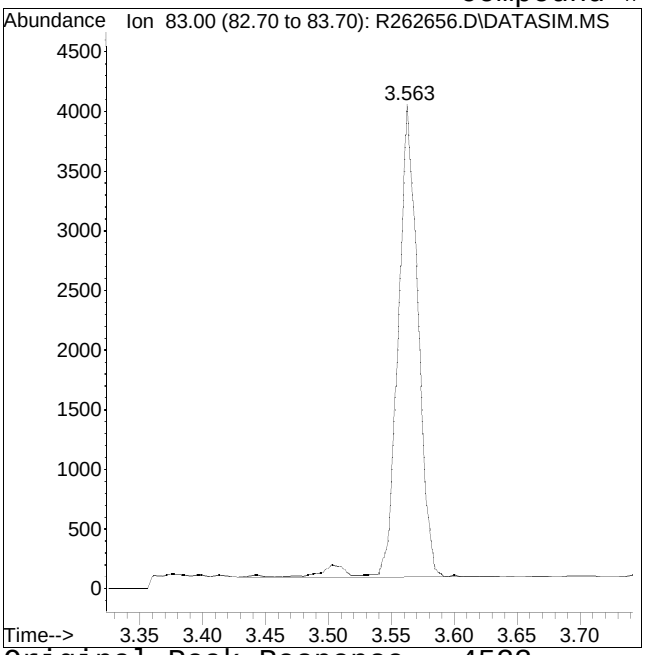
Manual Peak Response = 905 M6

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

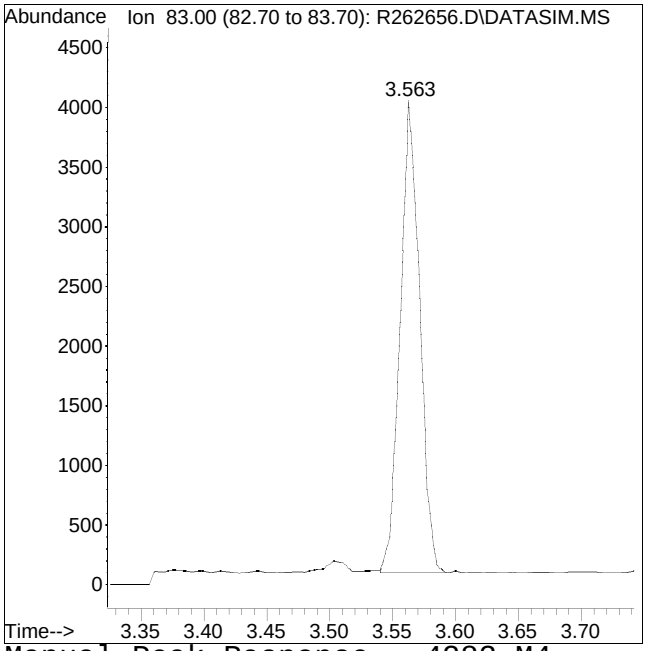
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #30: chloroform



Original Peak Response = 4523



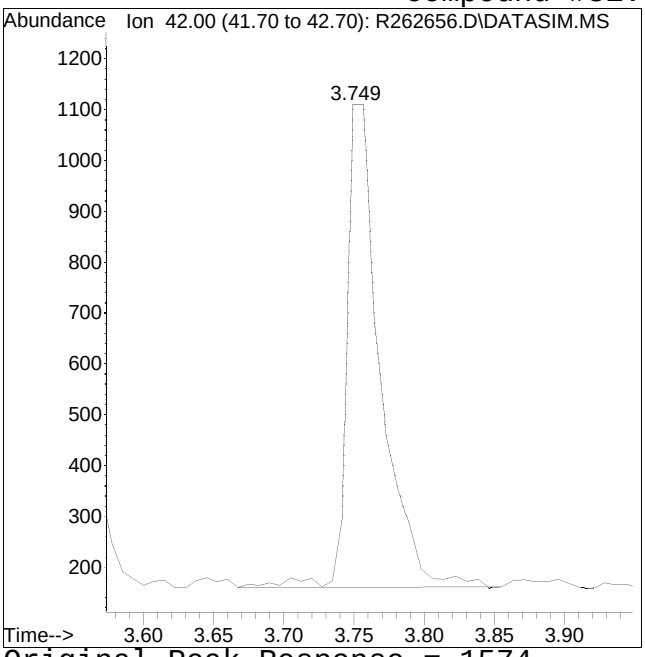
Manual Peak Response = 4283 M4

M4 = Poor automated baseline construction.

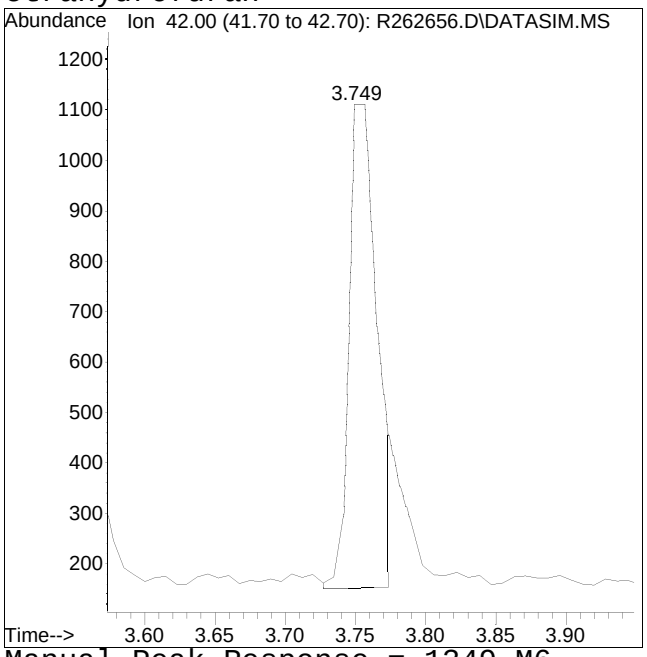
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 1574



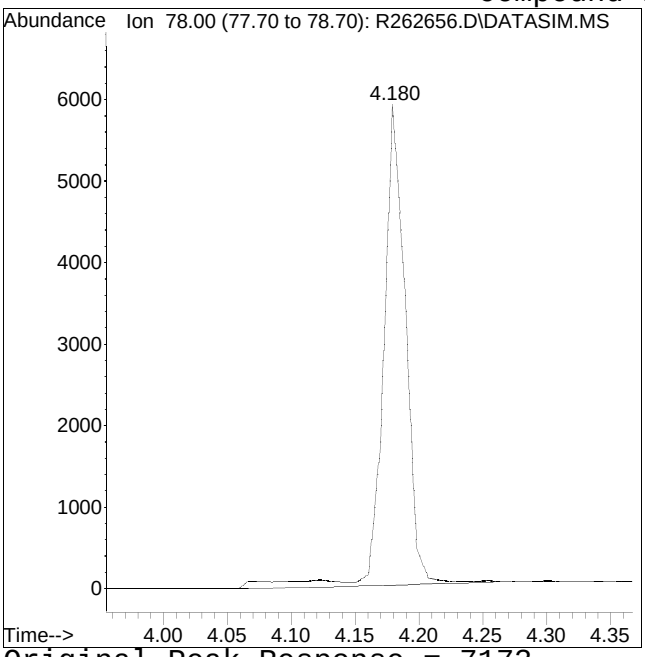
Manual Peak Response = 1349 M6

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

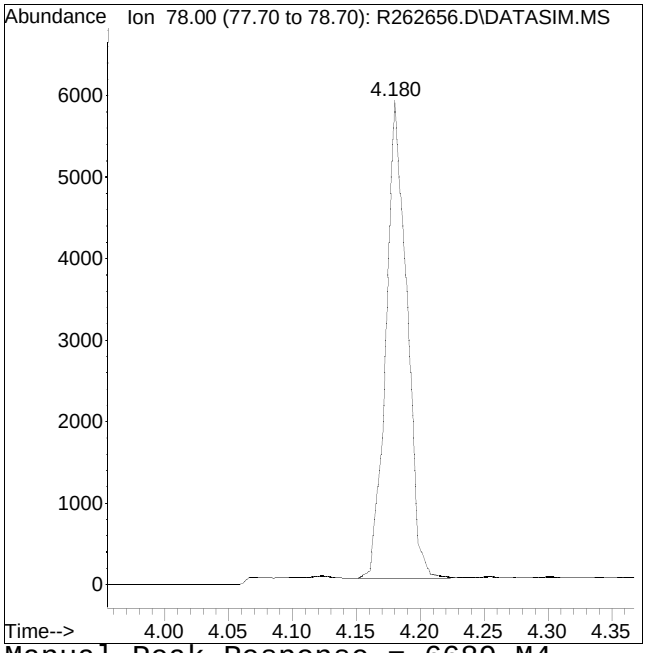
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #37: benzene



Original Peak Response = 7173



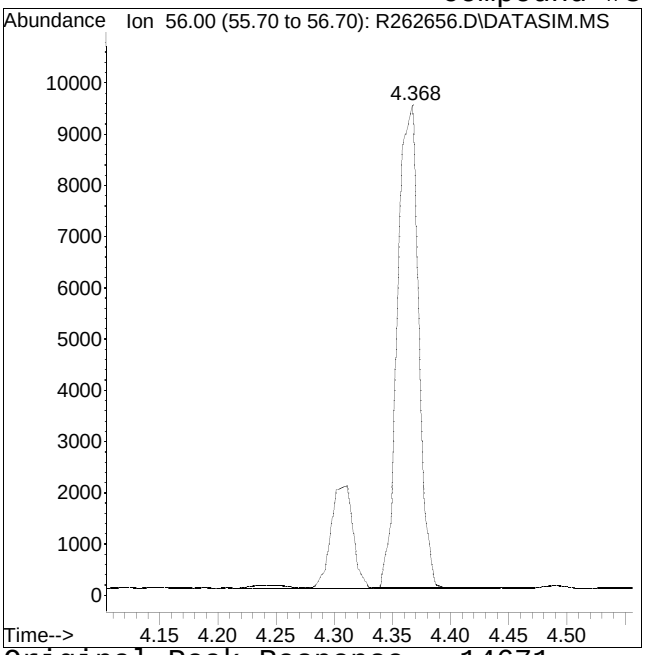
Manual Peak Response = 6689 M4

M4 = Poor automated baseline construction.

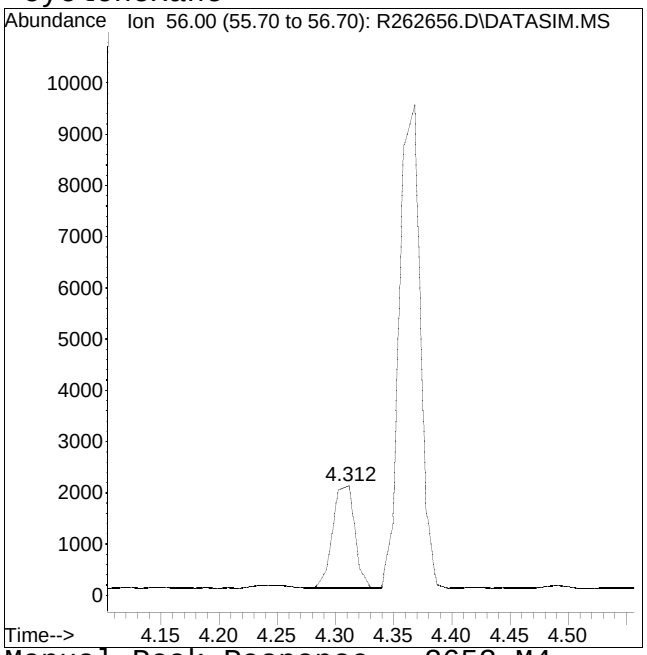
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #39: cyclohexane



Original Peak Response = 14671



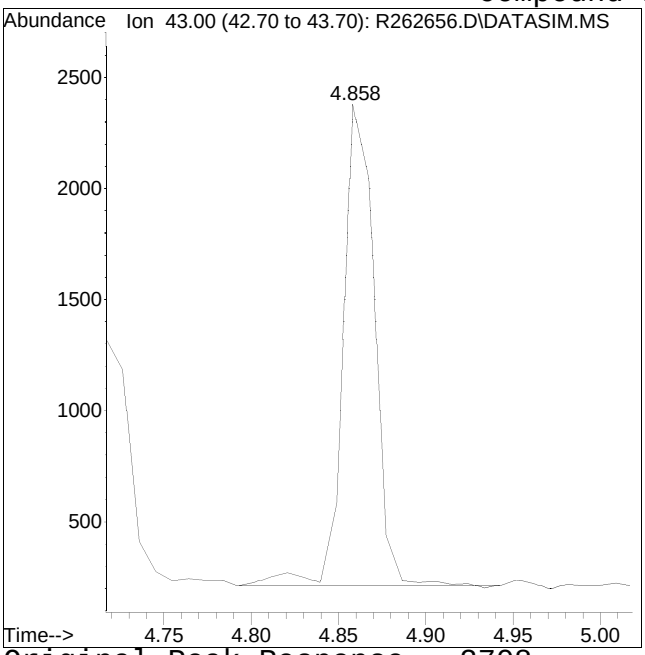
Manual Peak Response = 2653 M4

M4 = Poor automated baseline construction.

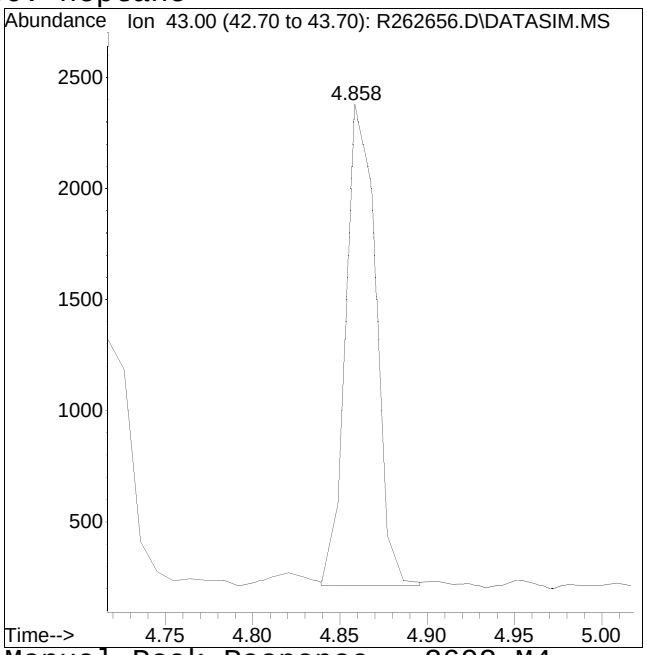
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #46: heptane



Original Peak Response = 2708



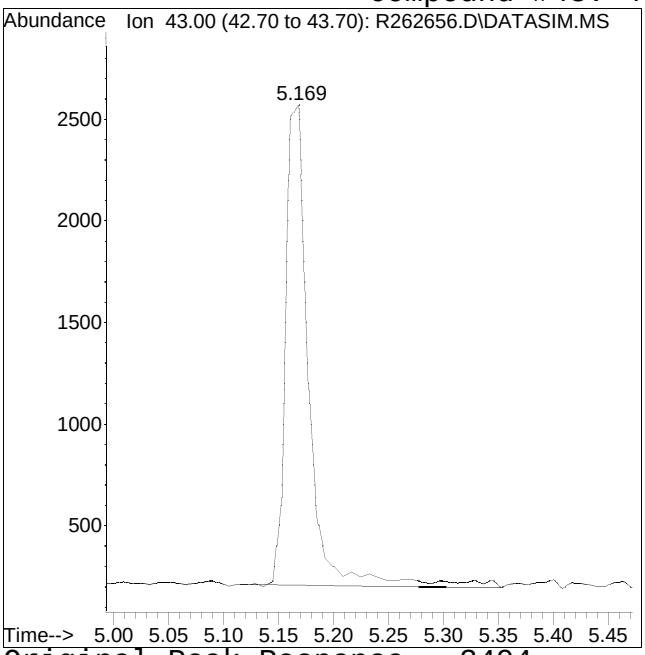
Manual Peak Response = 2602 M4

M4 = Poor automated baseline construction.

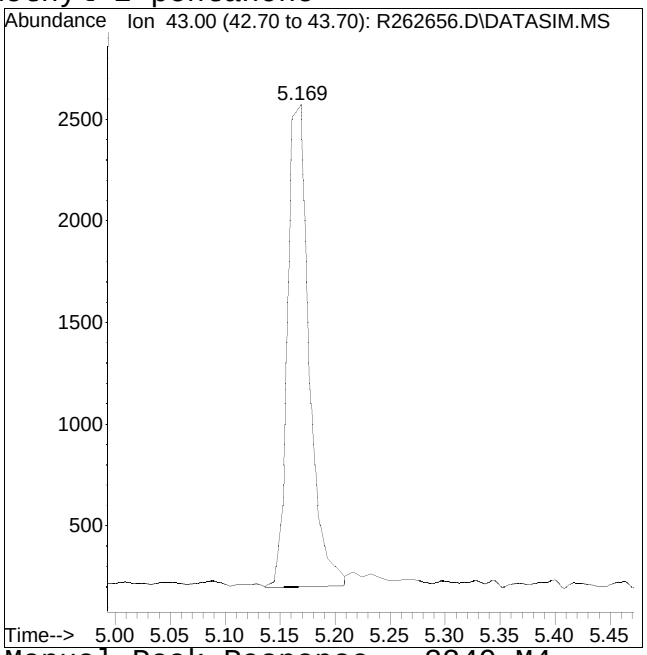
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 3494



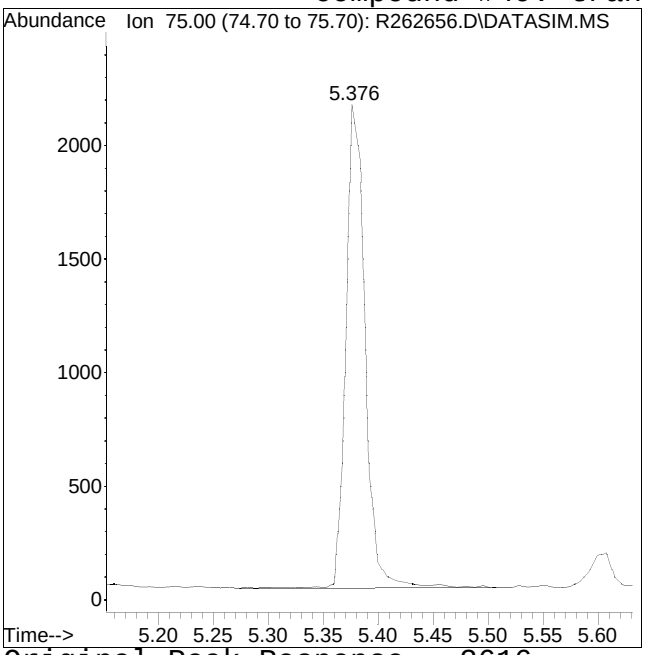
Manual Peak Response = 3249 M4

M4 = Poor automated baseline construction.

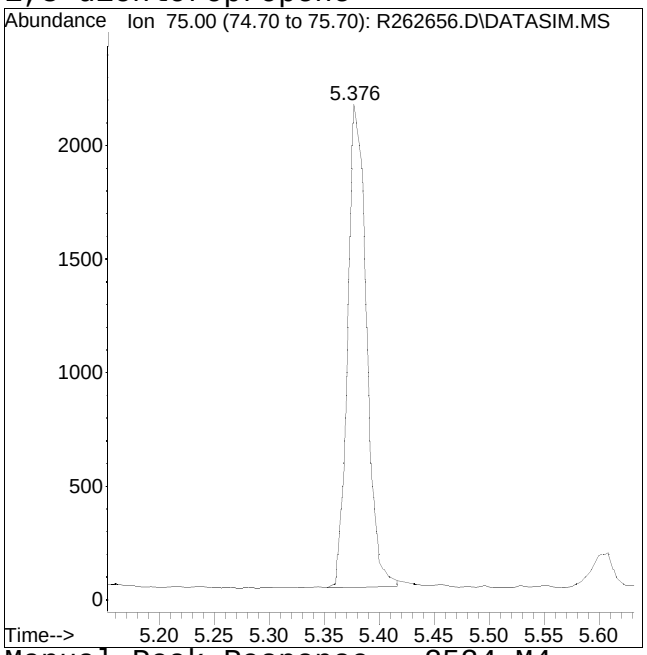
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 2616



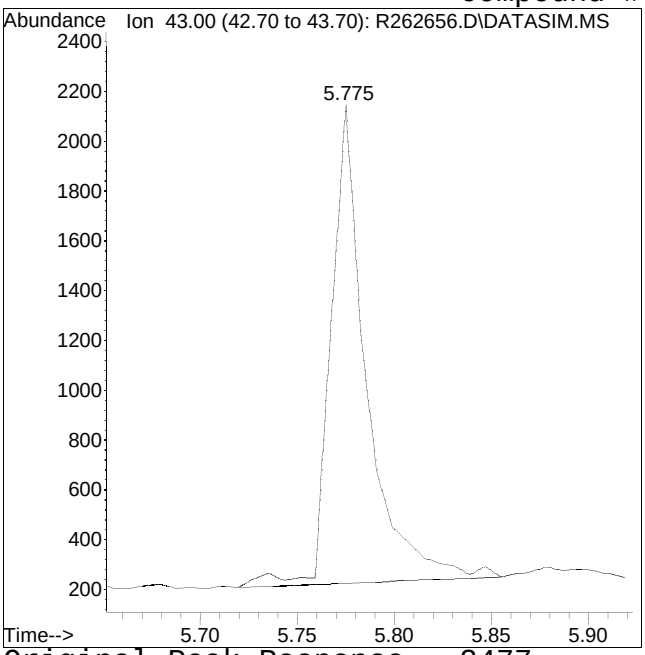
Manual Peak Response = 2524 M4

M4 = Poor automated baseline construction.

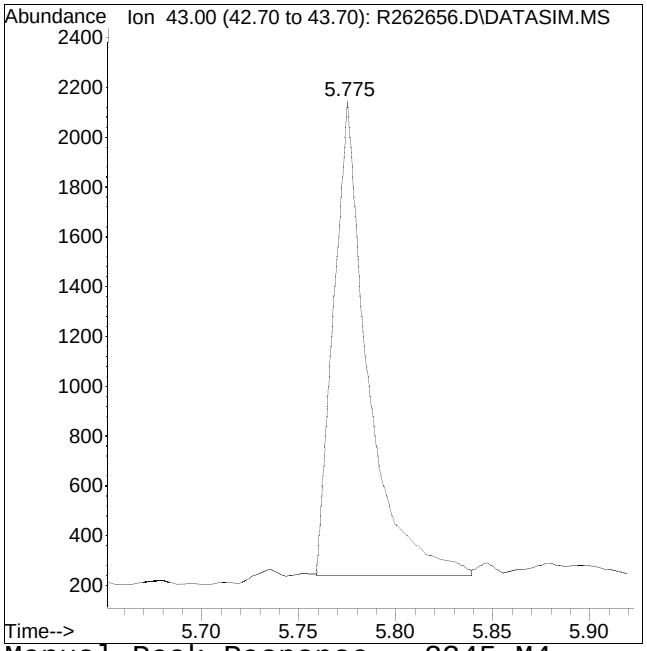
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #54: 2-hexanone



Original Peak Response = 2477



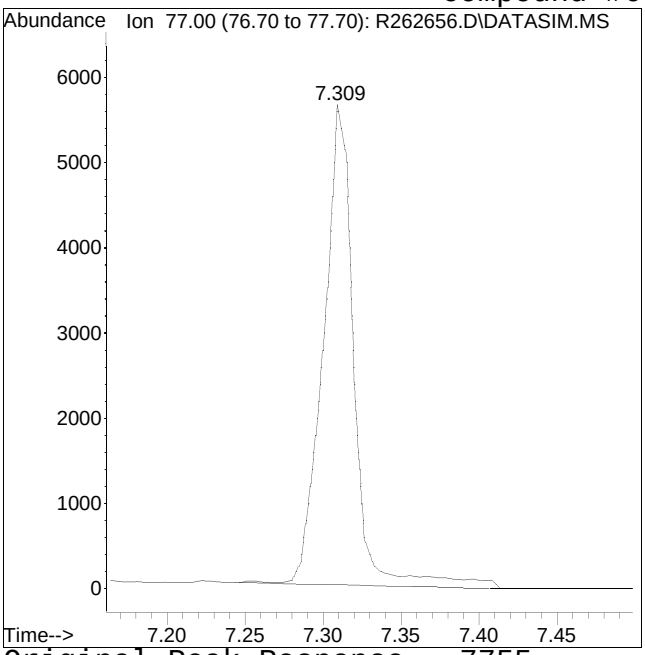
Manual Peak Response = 2345 M4

M4 = Poor automated baseline construction.

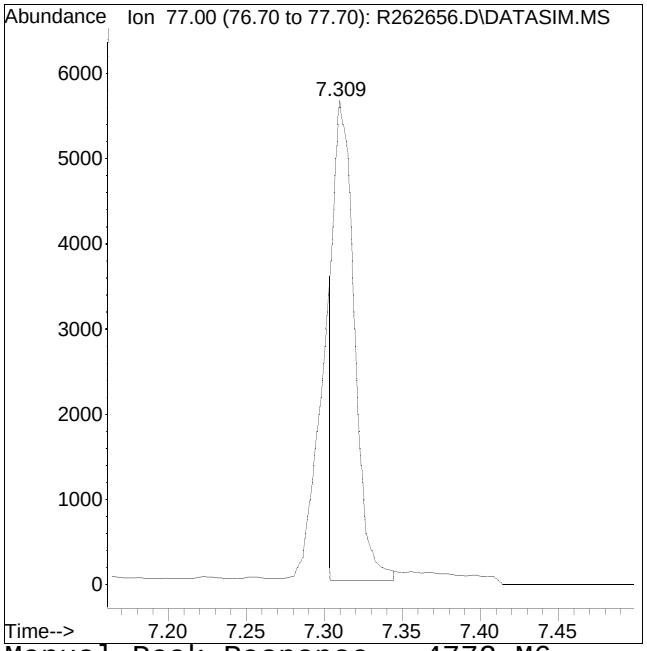
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 7755



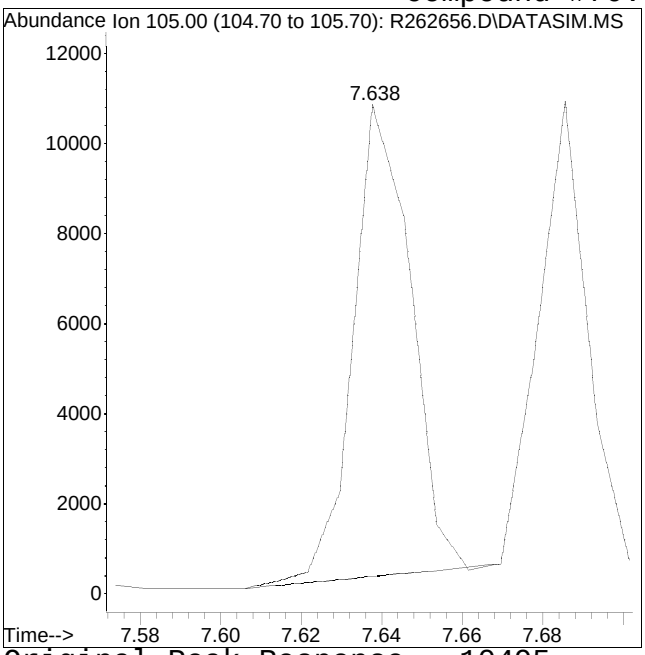
Manual Peak Response = 4772 M6

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

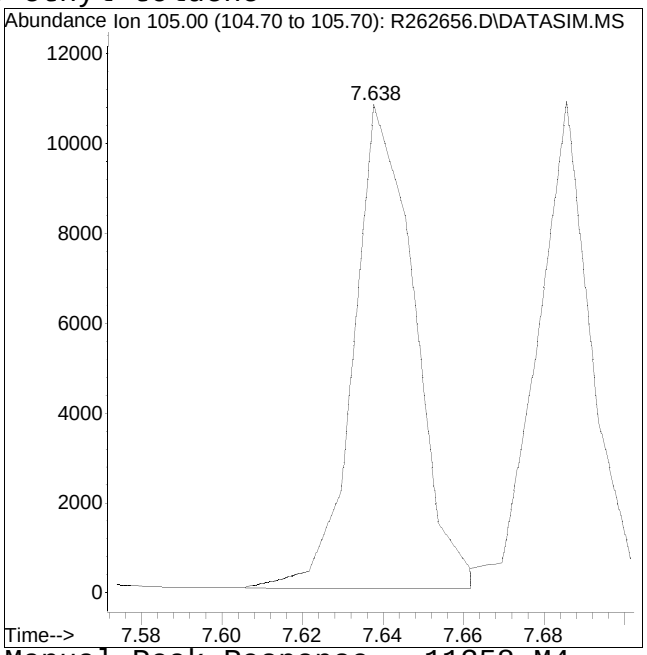
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 10495



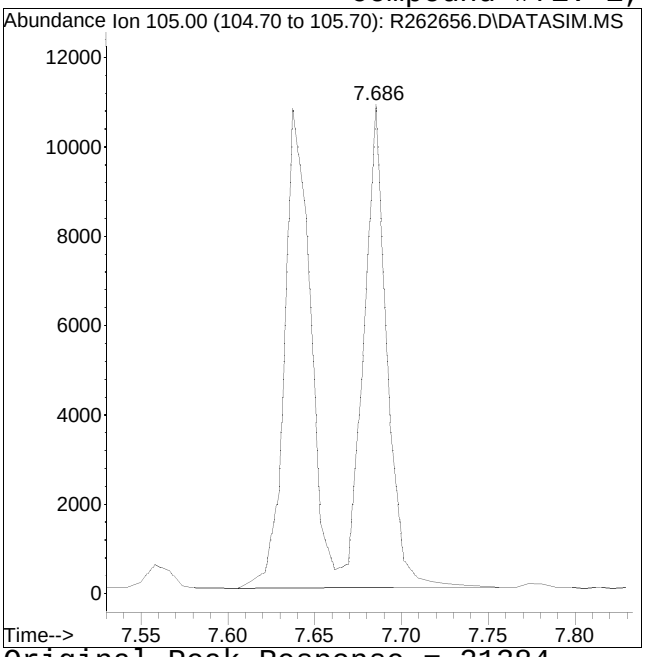
Manual Peak Response = 11358 M4

M4 = Poor automated baseline construction.

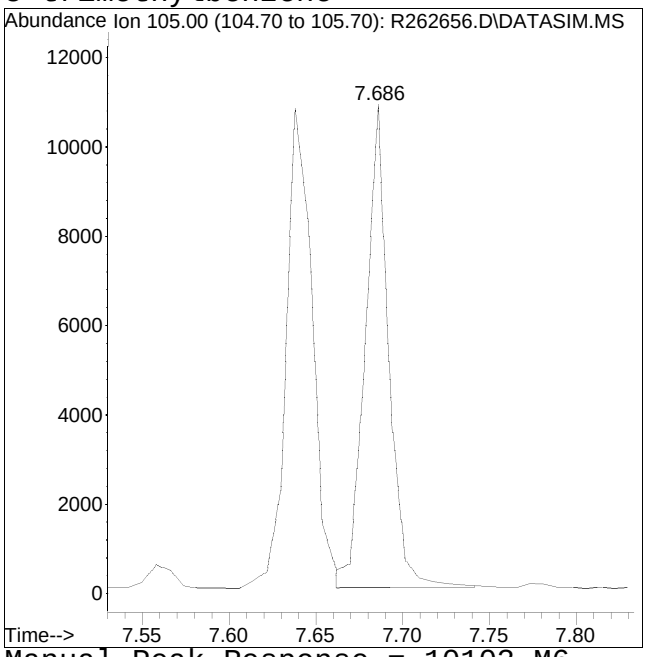
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 21384



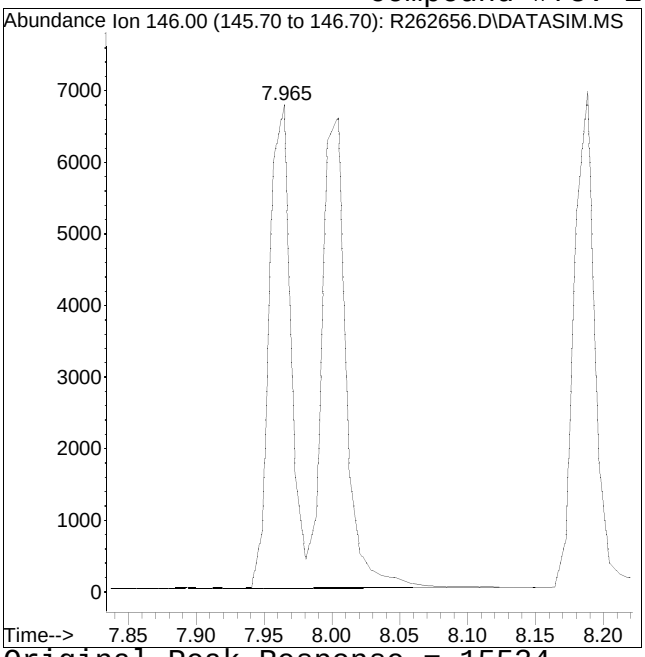
Manual Peak Response = 10103 M6

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

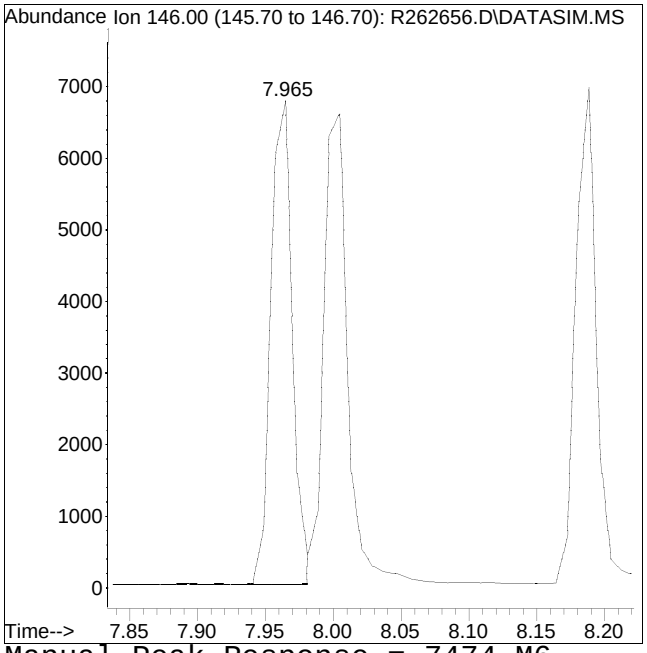
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 15534



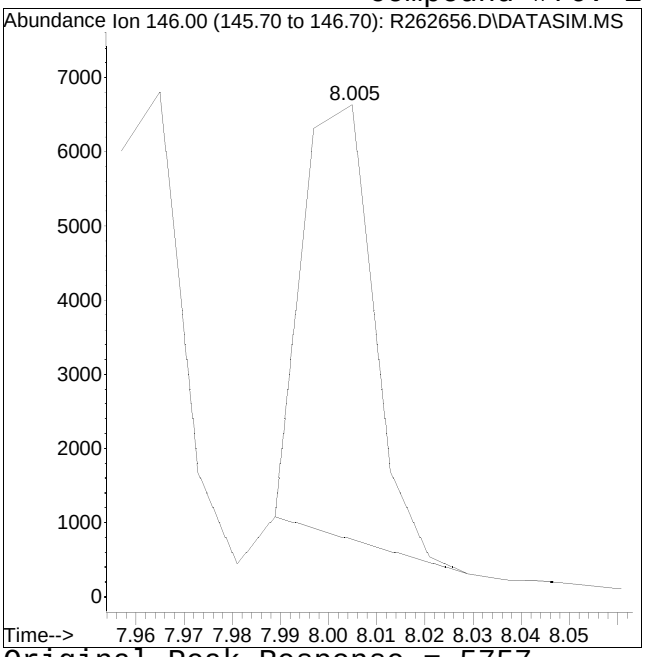
Manual Peak Response = 7474 M6

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

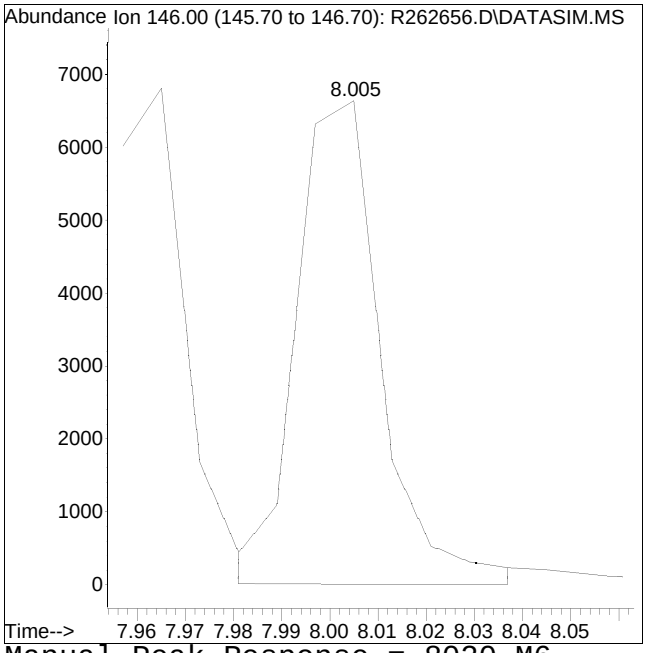
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 5757



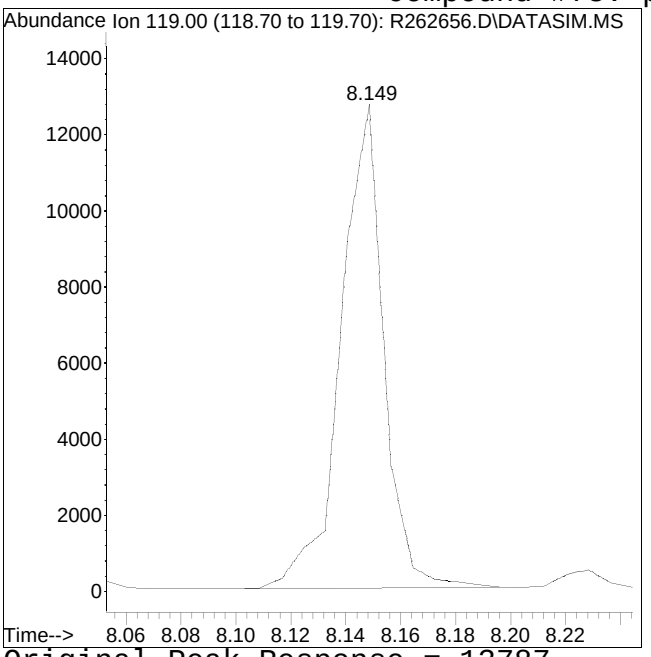
Manual Peak Response = 8020 M6

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

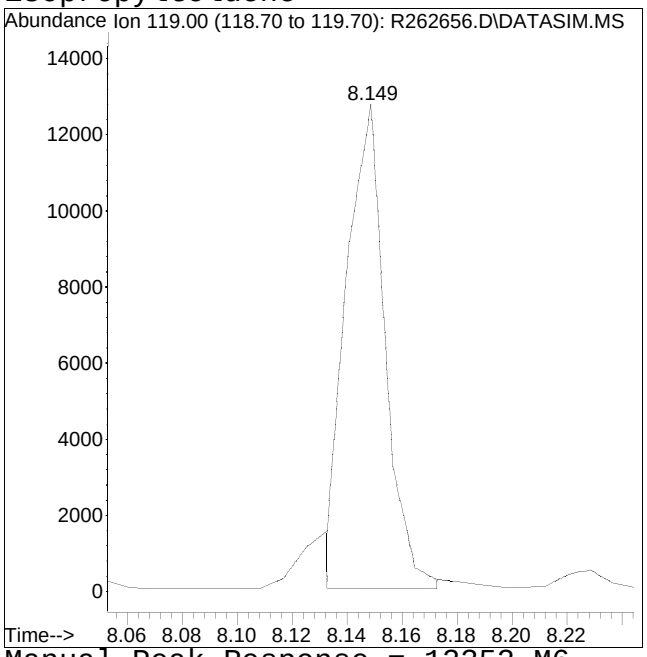
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262656.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:03 am Instrument : Airlab26
Sample : ITO15-SIMSTD0.1 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 13787



Manual Peak Response = 12352 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\04\0402SIM_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	220477	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 103.73%			
33) 1,4-difluorobenzene	4.368	114	947576	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 102.57%			
51) chlorobenzene-D5	6.452	54	105864	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 101.27%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	215921	9.858	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.58%			
53) toluene-D8	5.544	98	715599	10.111	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
67) bromofluorobenzene	7.216	95	459952	9.872	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.72%			
Target Compounds						Qvalue
2) propylene	2.010	41	2768	0.242	ppbV	96
3) dichlorodifluoromethane	2.032	85	10617	0.230	ppbV	99
4) chloromethane	2.076	50	3024M6	0.232	ppbV	
5) Freon-114	2.114	85	11050	0.230	ppbV	100
6) vinyl chloride	2.147	62	3964	0.235	ppbV	100
7) 1,3-butadiene	2.191	54	2491	0.227	ppbV #	12
8) bromomethane	2.279	94	4061	0.234	ppbV	97
9) chloroethane	2.334	64	2137	0.230	ppbV #	83
10) ethanol	2.367	31	12019	1.823	ppbV	99
11) vinyl bromide	2.439	106	4047M1	0.225	ppbV	
12) acrolein	2.468	56	1693	0.246	ppbV #	1
13) acetone	2.507	43	20948	1.249	ppbV	98
14) trichlorofluoromethane	2.553	101	9549	0.229	ppbV	100
15) isopropyl alcohol	2.575	45	13231	0.697	ppbV	100
16) acrylonitrile	2.632	53	2612M1	0.231	ppbV	
17) 1,1-dichloroethene	2.729	61	5228M1	0.228	ppbV	
18) tertiary butyl alcohol	2.743	59	7748	0.256	ppbV #	69
19) methylene chloride	2.762	49	3640M1	0.256	ppbV	
20) 3-chloropropene	2.795	41	3169	0.234	ppbV	98
21) carbon disulfide	2.848	76	10147	0.226	ppbV #	1
22) Freon 113	2.848	101	8315	0.230	ppbV	100
23) trans-1,2-dichloroethene	3.060	61	4631	0.224	ppbV	99
24) 1,1-dichloroethane	3.130	63	6458	0.235	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	9562	0.229	ppbV		90
26) vinyl acetate	3.197	43	6788M6	0.242	ppbV		
27) 2-butanone	3.290	43	6751	0.196	ppbV		98
28) cis-1,2-dichloroethene	3.443	61	5316	0.227	ppbV		98
29) Ethyl Acetate	3.570	61	1962M6	0.327	ppbV		
30) chloroform	3.562	83	9051	0.232	ppbV	#	96
31) Tetrahydrofuran	3.749	42	2878M6	0.218	ppbV		
32) 1,2-dichloroethane	3.871	62	5606	0.254	ppbV	#	76
34) hexane	3.540	57	6069	0.257	ppbV		85
36) 1,1,1-trichloroethane	3.985	97	9017	0.226	ppbV		99
37) benzene	4.179	78	13869M4	0.232	ppbV		
38) carbon tetrachloride	4.255	117	8758	0.222	ppbV		99
39) cyclohexane	4.302	56	5588	0.236	ppbV		97
40) Dibromomethane	4.538	93	5453	0.233	ppbV	#	97
41) 1,2-dichloropropane	4.566	63	4593	0.224	ppbV		99
42) bromodichloromethane	4.651	83	8779	0.223	ppbV		97
43) 1,4-dioxane	4.717	88	3188	0.241	ppbV		95
44) trichloroethene	4.688	130	6992	0.224	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	17407	0.232	ppbV		100
46) heptane	4.858	43	5504	0.230	ppbV		99
47) cis-1,3-dichloropropene	5.113	75	7180	0.221	ppbV	#	88
48) 4-methyl-2-pentanone	5.161	43	6777	0.208	ppbV		99
49) trans-1,3-dichloropropene	5.376	75	5499	0.210	ppbV		98
50) 1,1,2-trichloroethane	5.448	97	6019	0.218	ppbV		98
52) toluene	5.591	91	17817	0.237	ppbV		100
54) 2-hexanone	5.767	43	5492	0.181	ppbV		96
55) dibromochloromethane	5.783	129	9026	0.212	ppbV		99
56) 1,2-dibromoethane	5.895	107	9079	0.217	ppbV		100
57) tetrachloroethene	6.142	166	9125	0.234	ppbV		98
58) 1,1,1,2-tetrachloroethane	6.468	131	7036	0.216	ppbV	#	98
59) chlorobenzene	6.474	112	14758	0.226	ppbV	#	73
60) ethylbenzene	6.676	91	22091	0.226	ppbV		99
61) m+p-xylene	6.768	91	35233	0.449	ppbV		99
62) bromoform	6.768	173	8345	0.207	ppbV		98
63) styrene	6.943	104	13091M6	0.210	ppbV		
64) 1,1,2,2-tetrachloroethane	6.989	83	12495	0.222	ppbV		99
65) o-xylene	6.989	91	17415	0.232	ppbV		97
66) 1,2,3-Trichloropropane	7.053	75	8867	0.224	ppbV		99
68) isopropylbenzene	7.298	105	24944	0.227	ppbV		96
69) Bromobenzene	7.309	77	11185M6	0.245	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

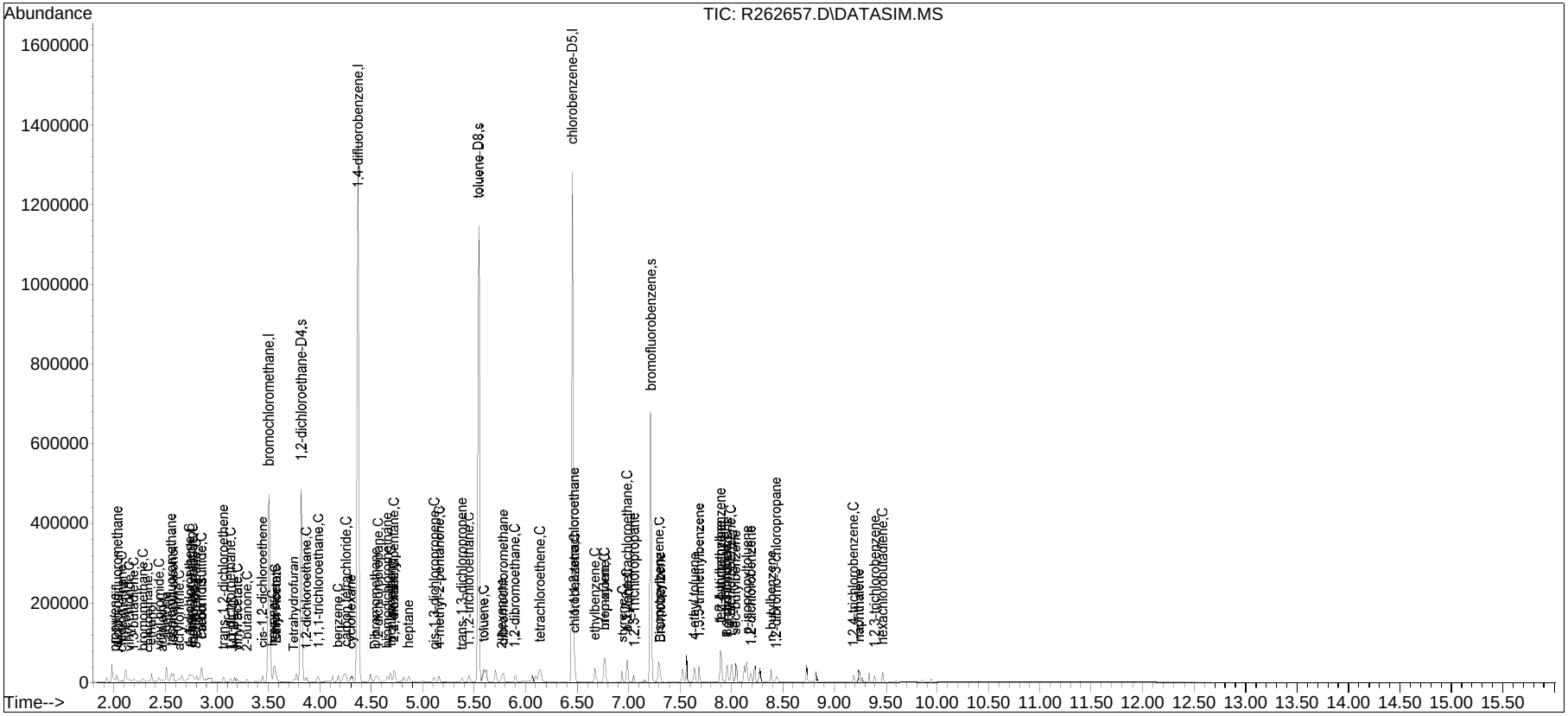
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	23011M6	0.212	ppbV		
71) 1,3,5-trimethylbenzene	7.685	105	19841M3	0.225	ppbV		
72) tert-butylbenzene	7.893	119	22758	0.226	ppbV		100
73) 1,2,4-trimethylbenzene	7.893	105	20094	0.214	ppbV		97
74) Benzyl Chloride	7.957	91	12805	0.174	ppbV		98
75) 1,3-dichlorobenzene	7.957	146	14963M4	0.209	ppbV		
76) 1,4-dichlorobenzene	7.997	146	15824M6	0.220	ppbV		
77) sec-butylbenzene	8.045	105	31031	0.230	ppbV		98
78) p-isopropyltoluene	8.149	119	25442M6	0.215	ppbV		
79) 1,2-dichlorobenzene	8.188	146	15048	0.217	ppbV		99
80) n-butylbenzene	8.388	91	22899	0.210	ppbV		97
81) 1,2-dibromo-3-chloropr...	8.436	75	5236	0.195	ppbV	#	90
82) 1,2,4-trichlorobenzene	9.186	180	11868	0.183	ppbV		99
83) naphthalene	9.239	128	27988	0.185	ppbV		99
84) 1,2,3-trichlorobenzene	9.396	180	10590	0.142	ppbV		99
85) hexachlorobutadiene	9.467	225	9831	0.188	ppbV		99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262657.D
Acq On : 03 Apr 2025 02:36 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.2
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:23 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

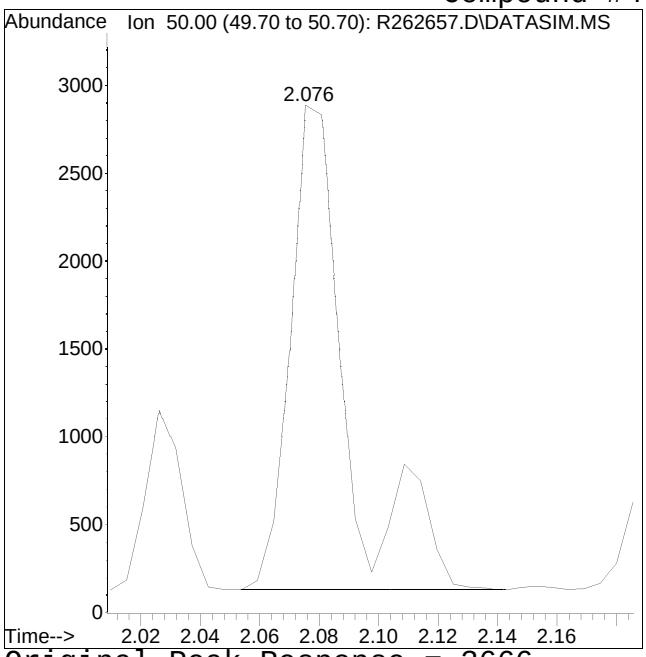


Manual Integration Report

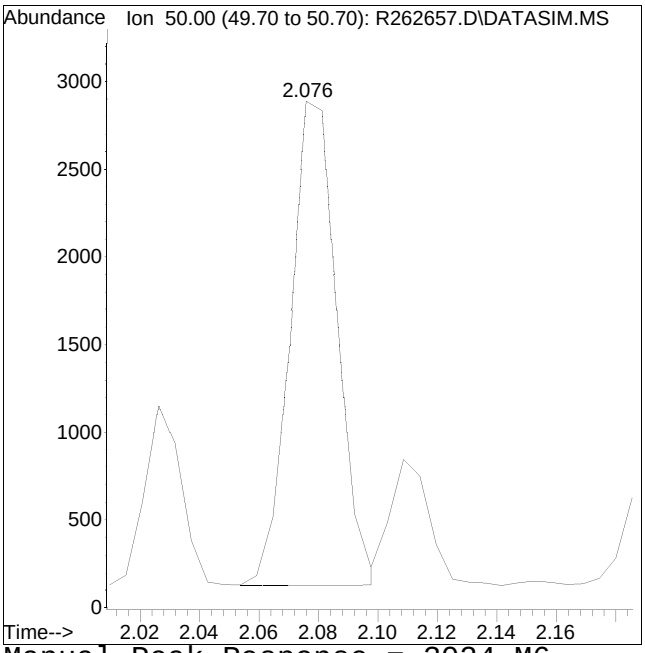
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262657.D
Date Inj'd : 4/3/2025 2:36 am
Sample : ITO15-LLSTD0.2

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 3666



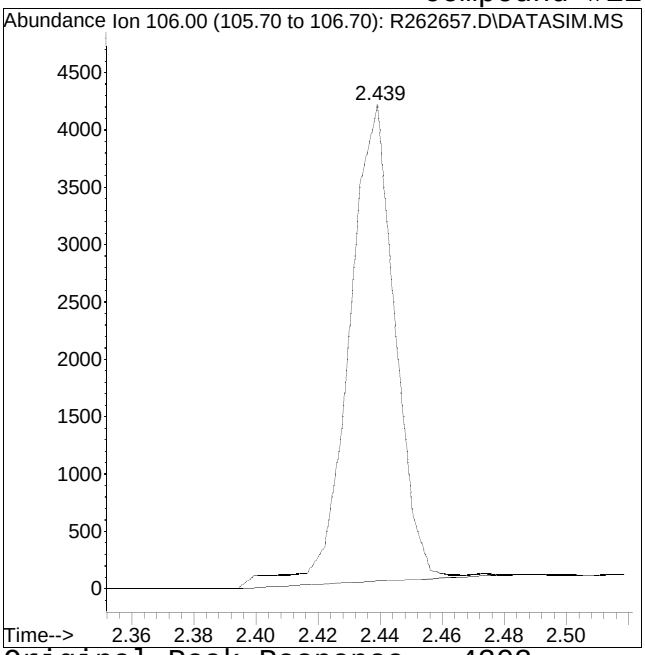
Manual Peak Response = 3024 M6

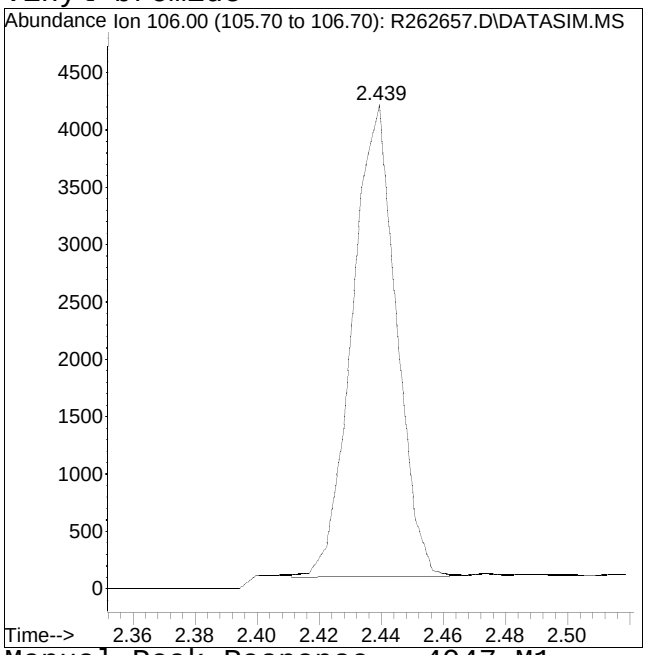
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #11: vinyl bromide





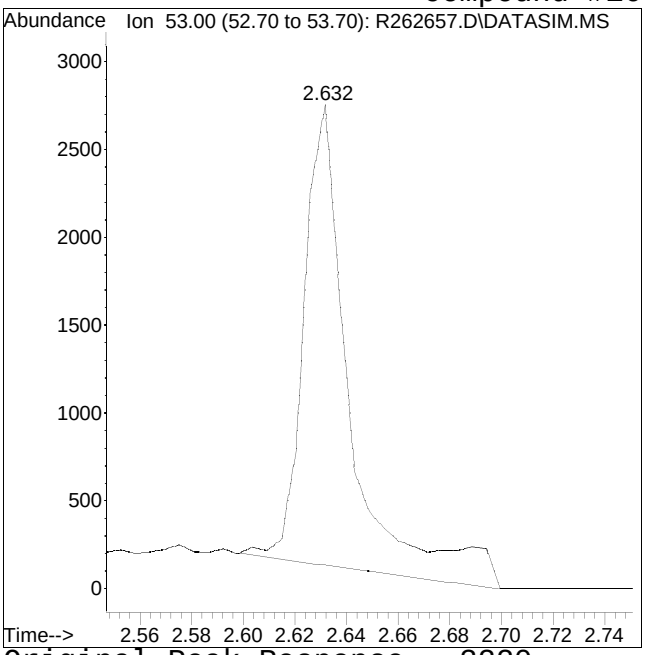
Original Peak Response = 4303 Manual Peak Response = 4047 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

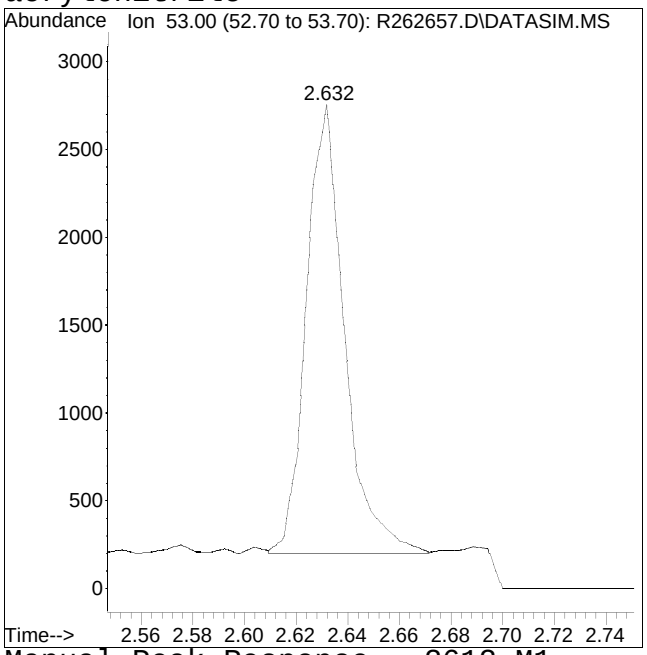
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 3220



Manual Peak Response = 2612 M1

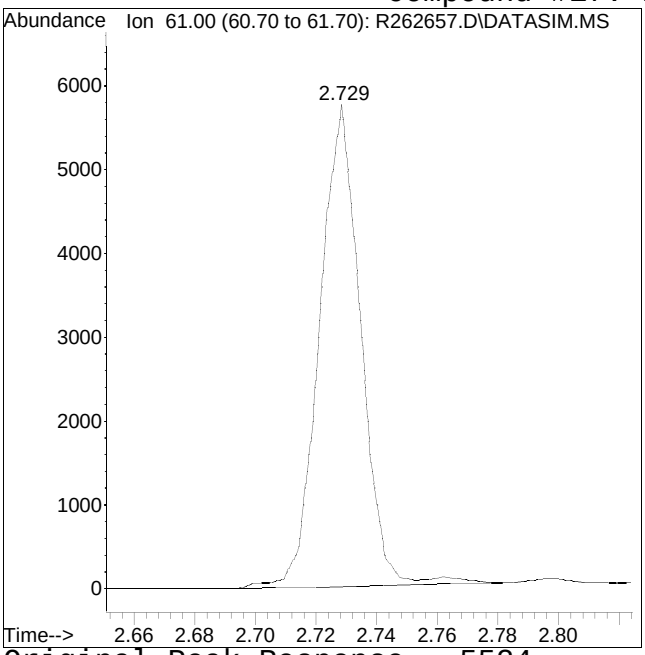
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Manual Integration Report

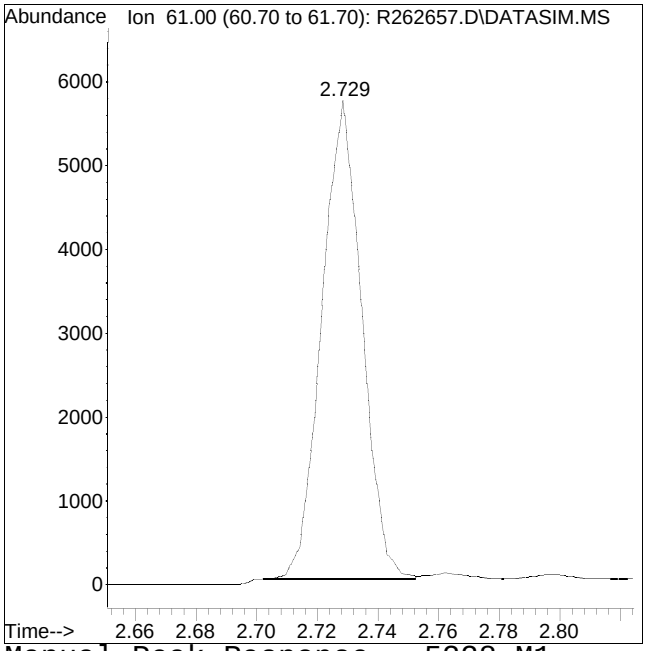
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262657.D
Date Inj'd : 4/3/2025 2:36 am
Sample : ITO15-LLSTD0.2

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 5524



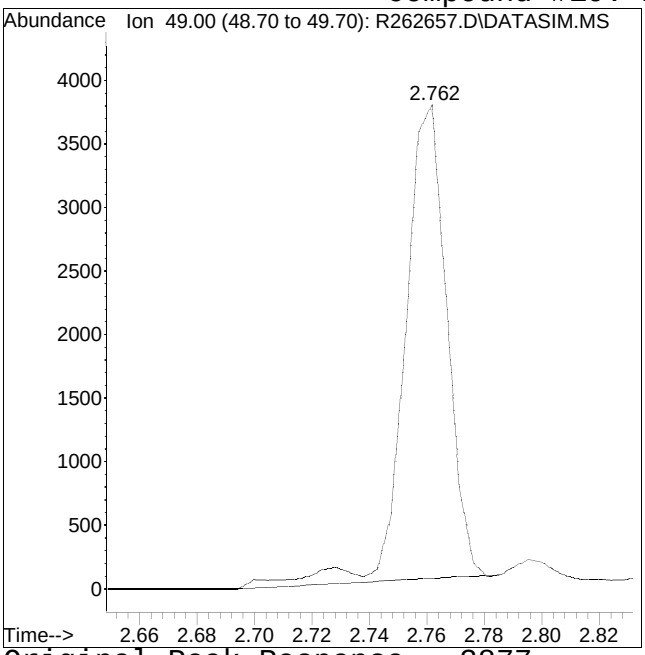
Manual Peak Response = 5228 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

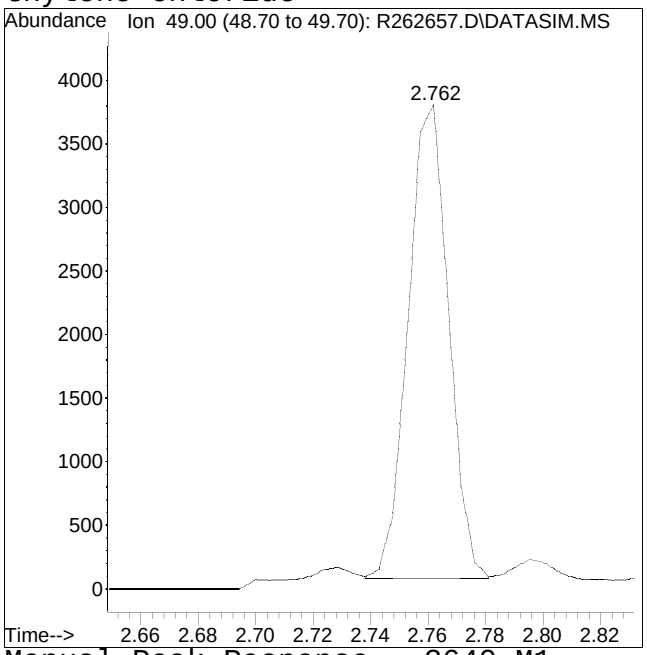
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 3877



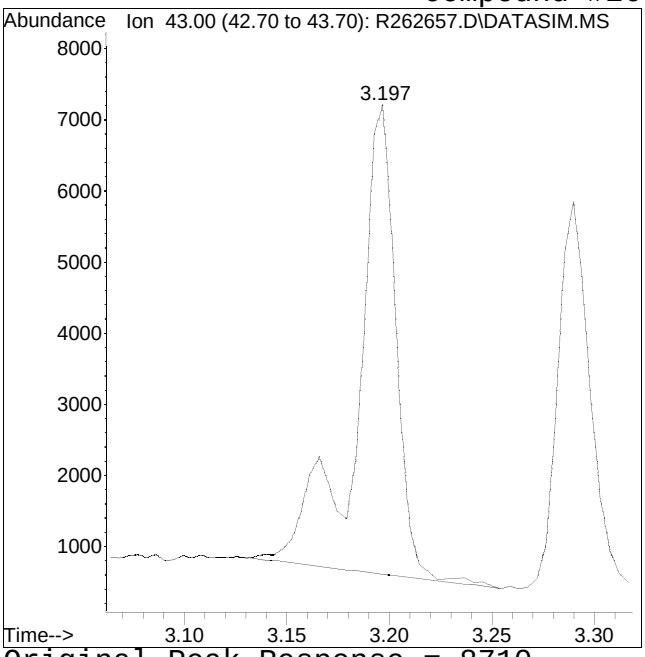
Manual Peak Response = 3640 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

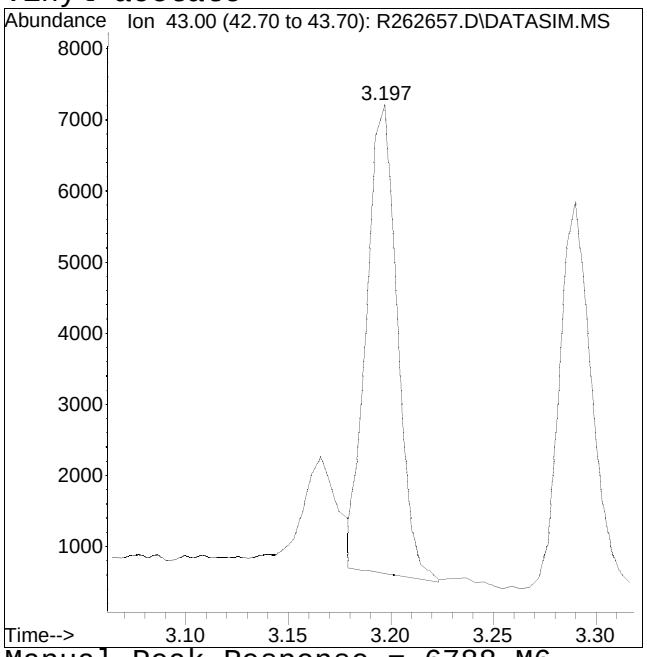
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 8710



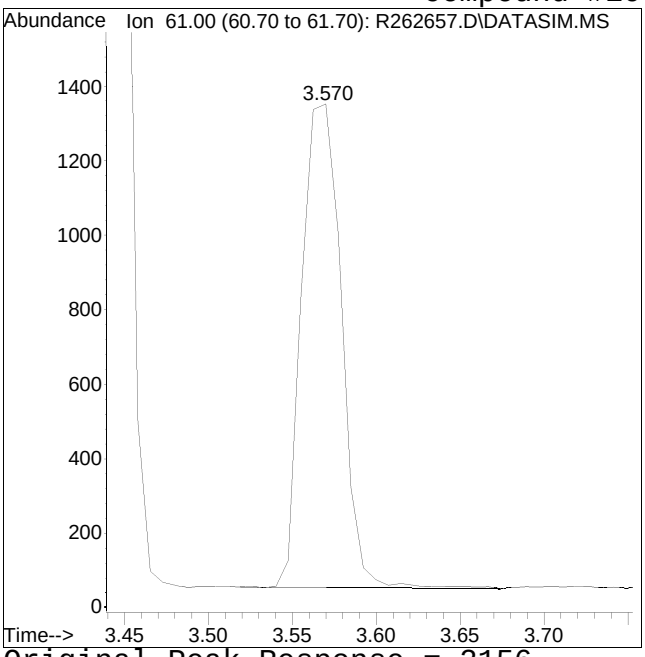
Manual Peak Response = 6788 M6

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

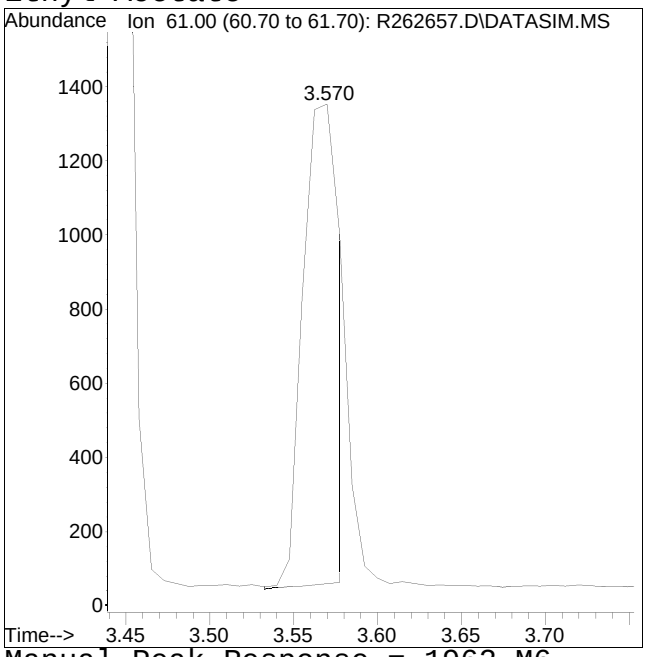
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 2156



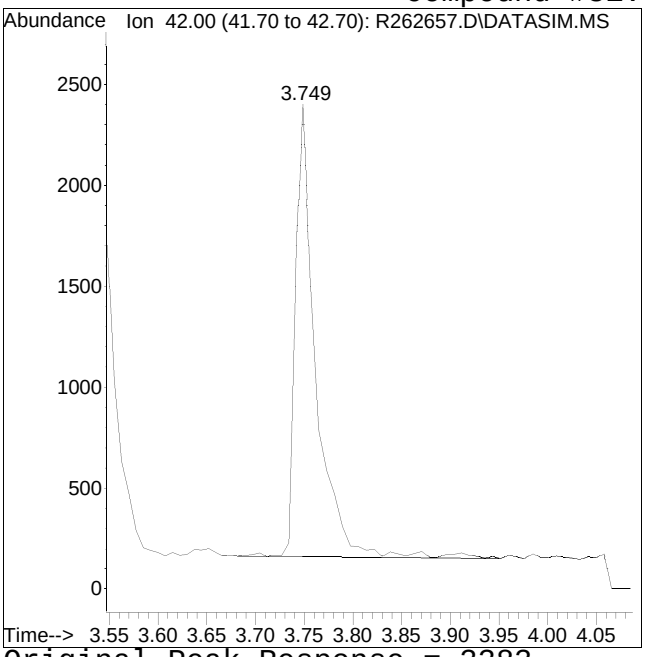
Manual Peak Response = 1962 M6

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

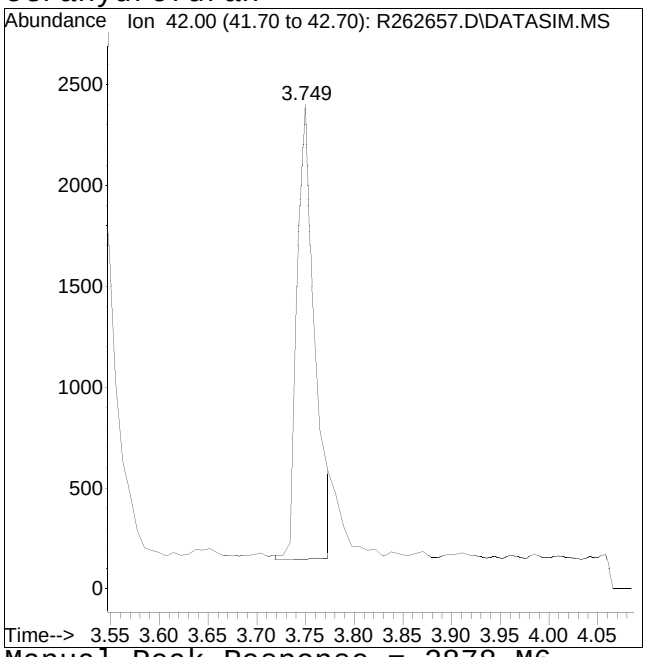
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 3383



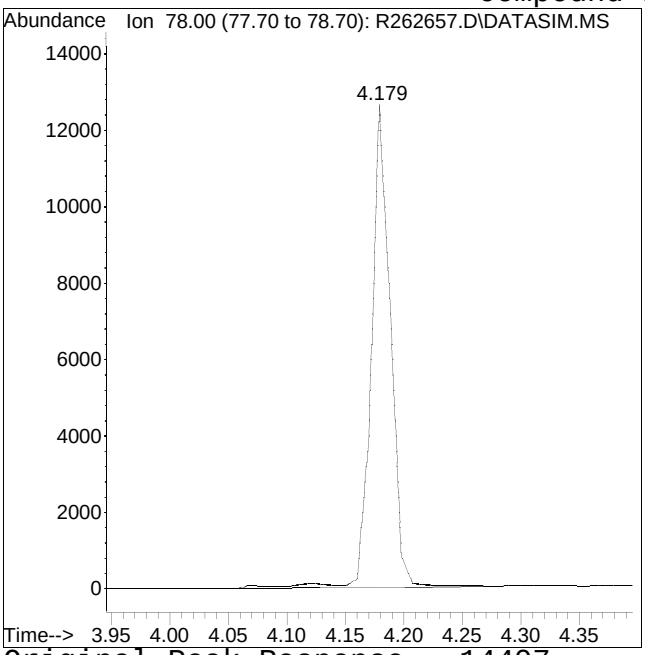
Manual Peak Response = 2878 M6

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

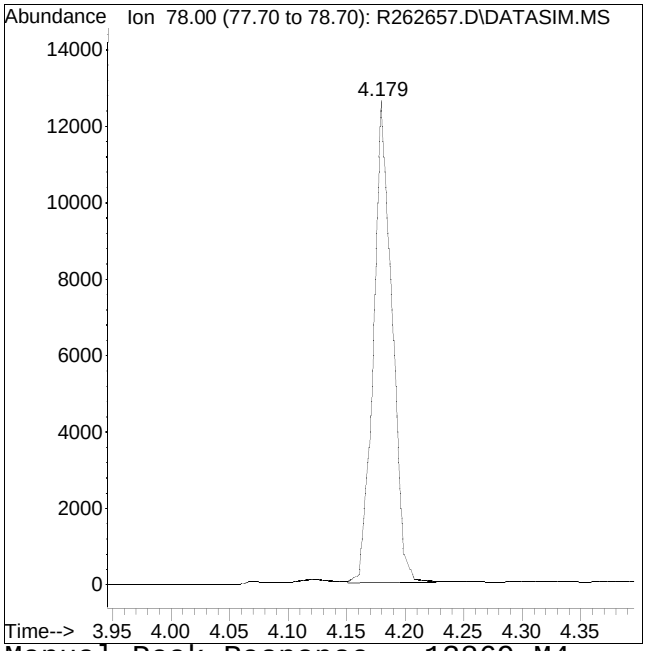
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #37: benzene



Original Peak Response = 14407



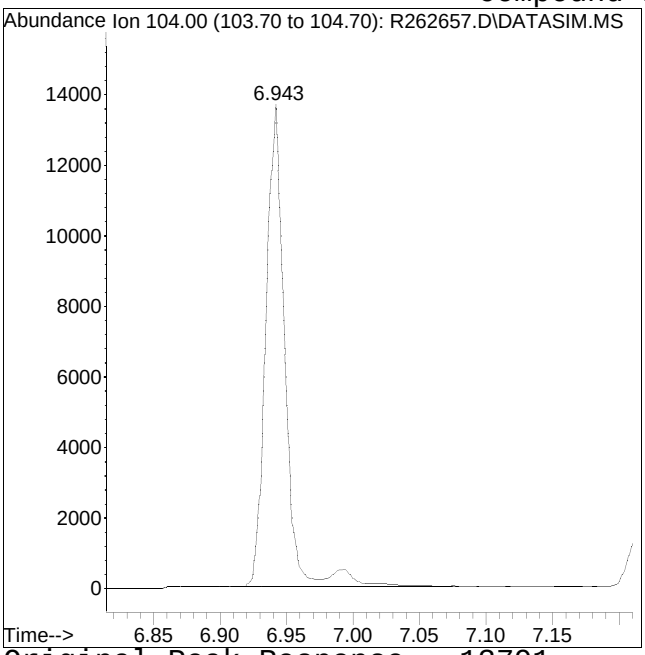
Manual Peak Response = 13869 M4

M4 = Poor automated baseline construction.

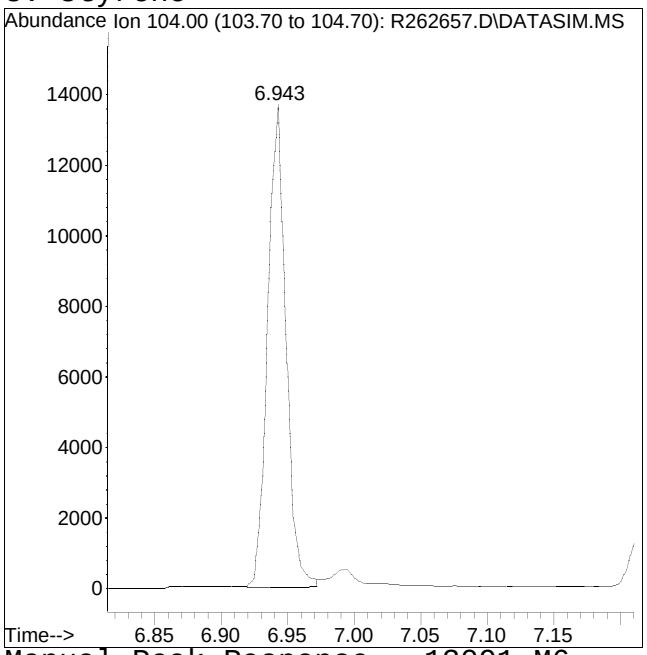
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #63: styrene



Original Peak Response = 13791



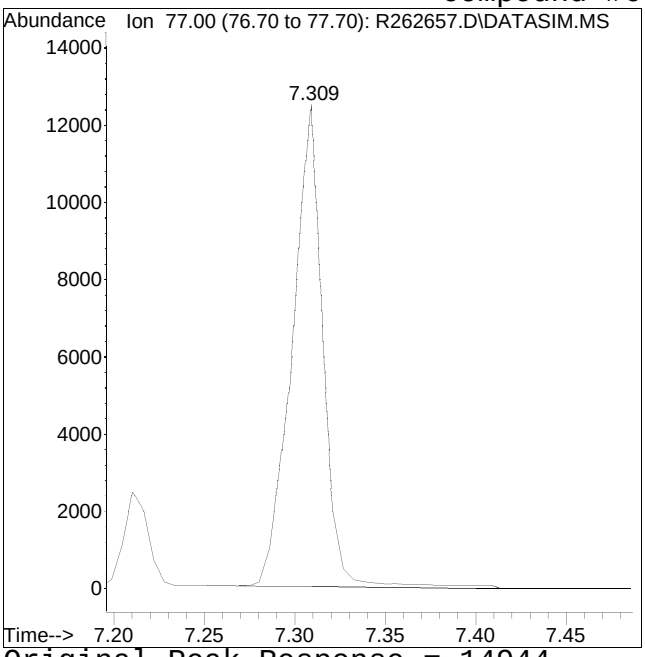
Manual Peak Response = 13091 M6

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

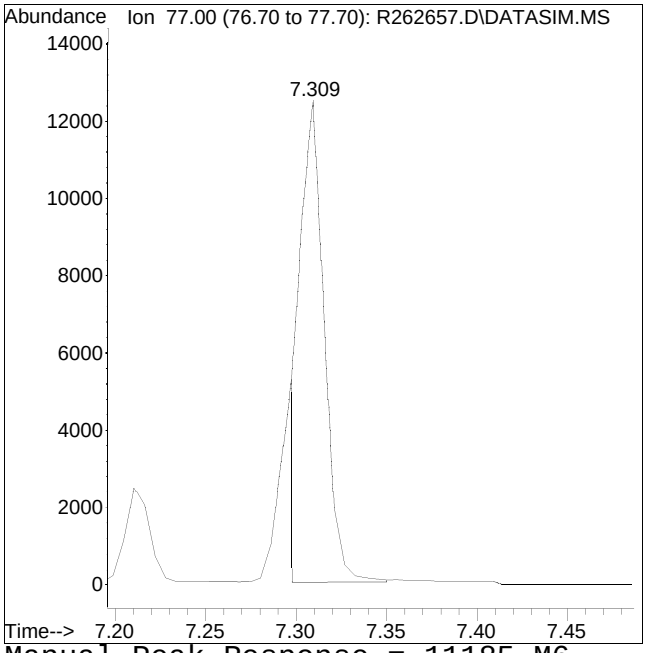
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 14944



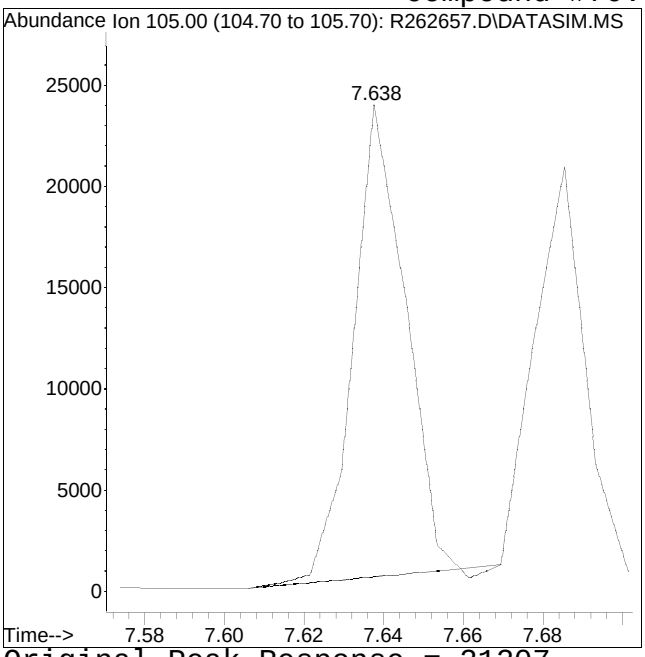
Manual Peak Response = 11185 M6

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

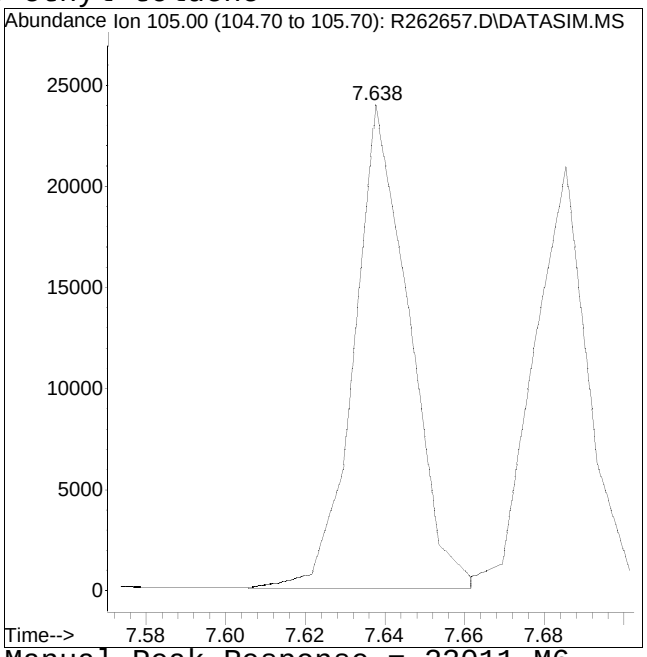
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 21207



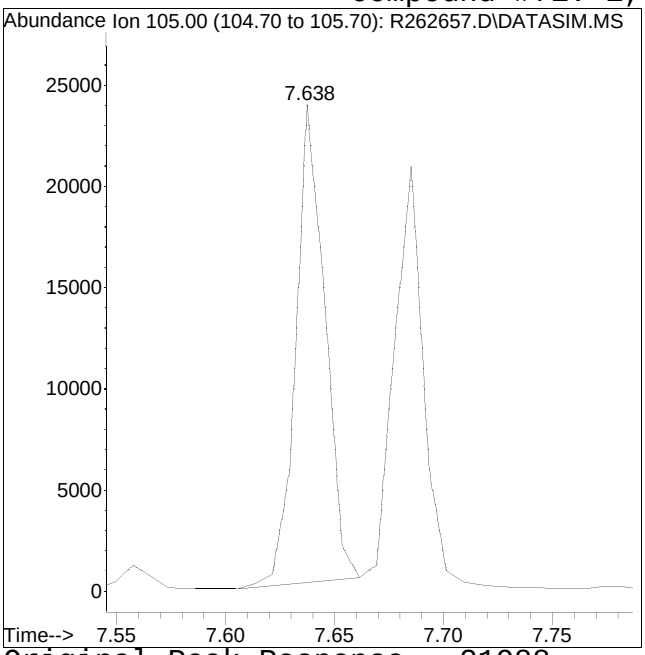
Manual Peak Response = 23011 M6

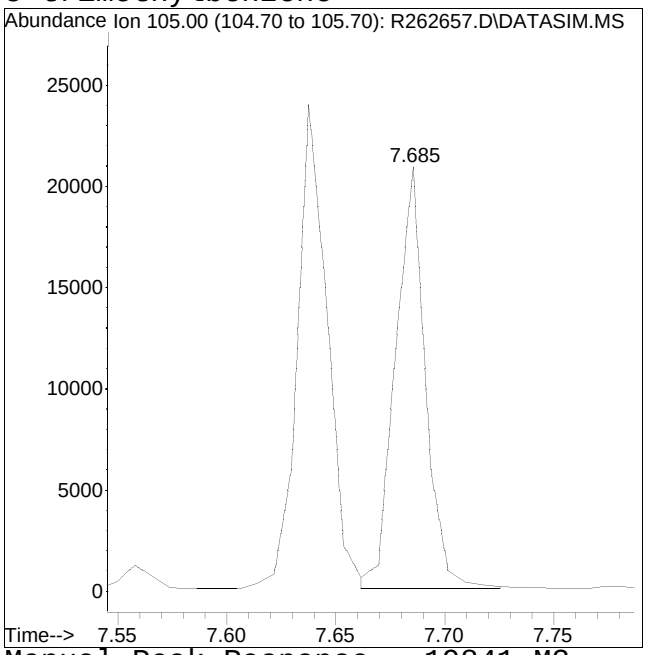
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



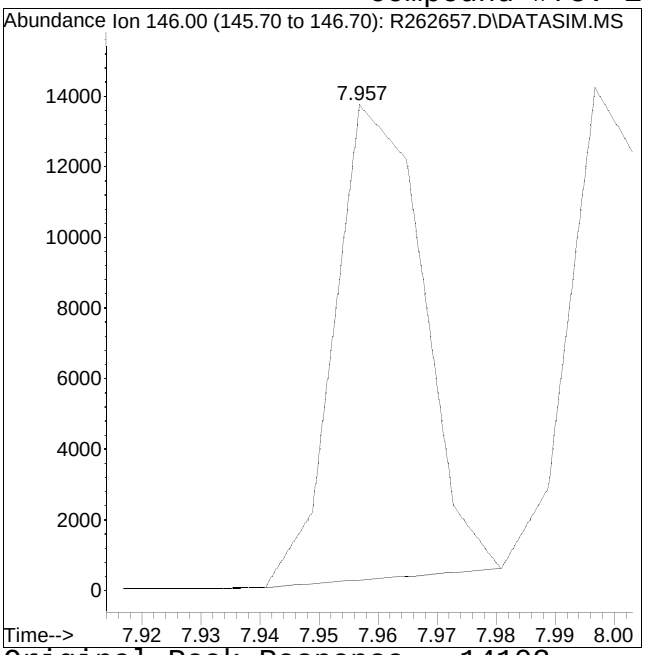


Original Peak Response = 21988 Manual Peak Response = 19841 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

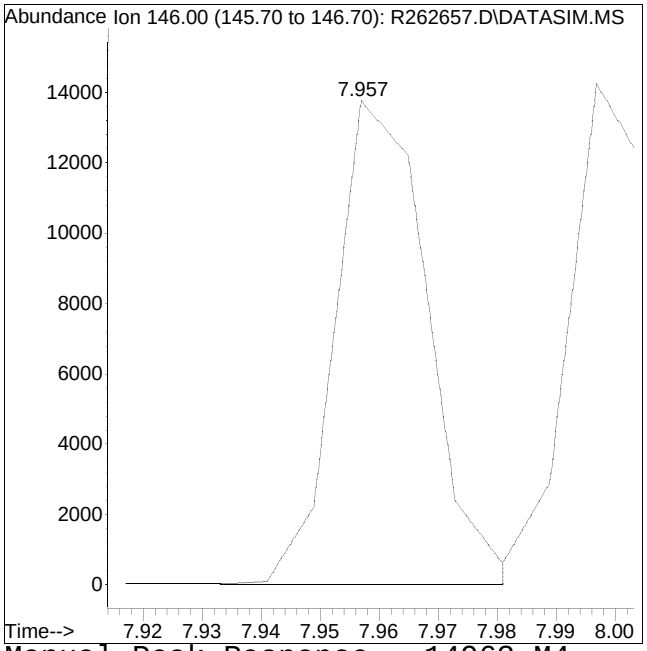
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 14102



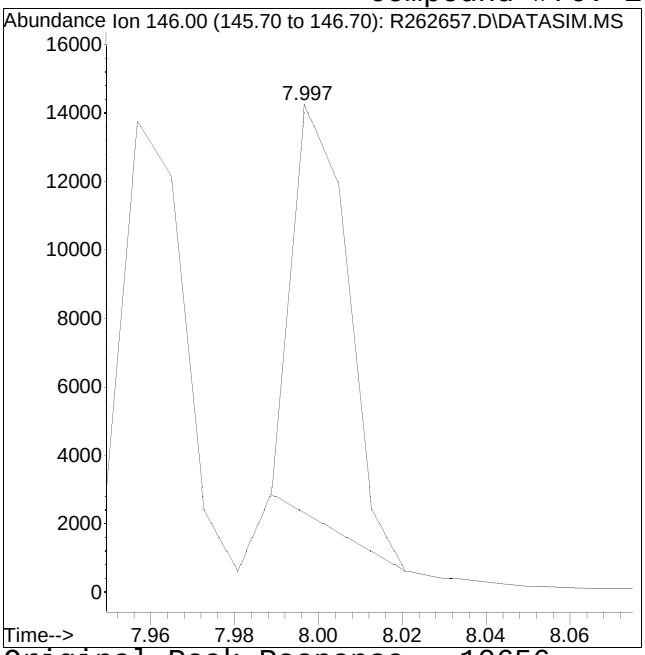
Manual Peak Response = 14963 M4

M4 = Poor automated baseline construction.

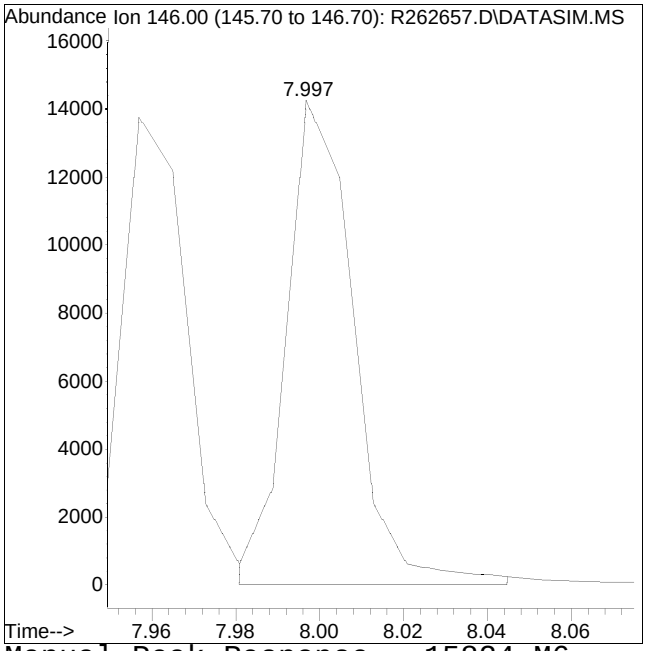
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 10656



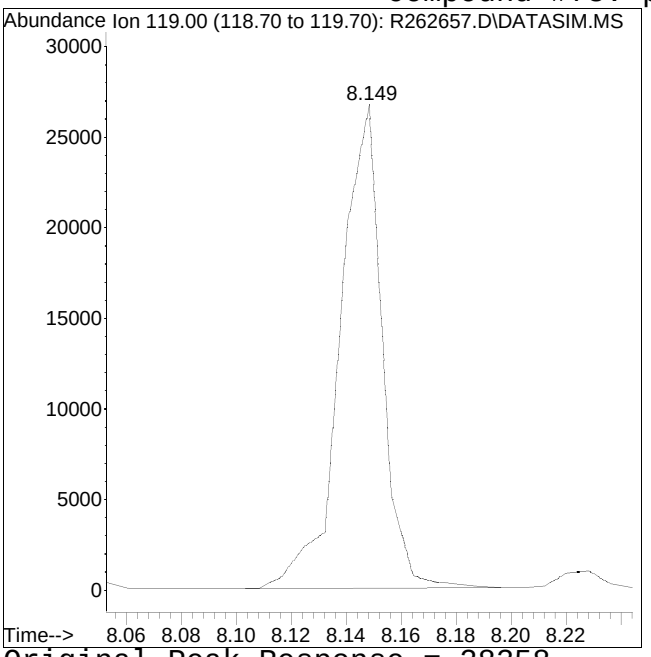
Manual Peak Response = 15824 M6

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

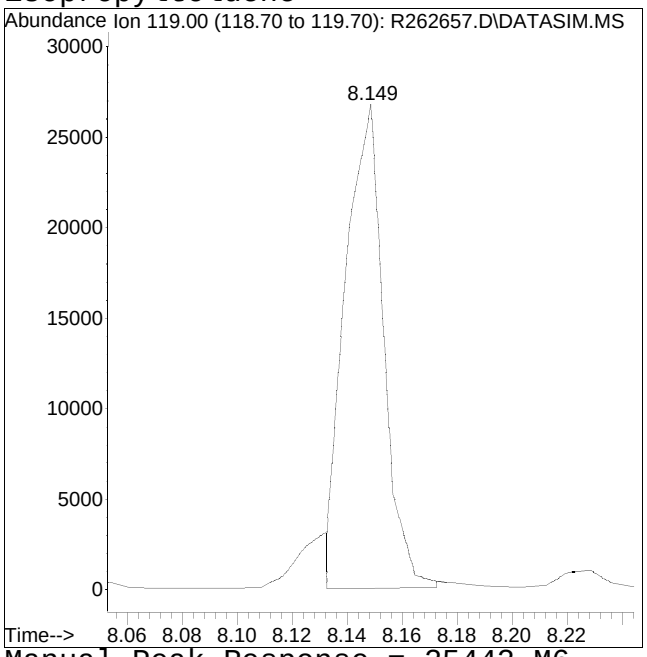
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262657.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 2:36 am Instrument : Airlab26
Sample : ITO15-LLSTD0.2 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 28358



Manual Peak Response = 25442 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\04\0402SIM_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:30 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	221303	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 104.12%			
33) 1,4-difluorobenzene	4.368	114	953173	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 103.18%			
51) chlorobenzene-D5	6.452	54	107372	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 102.71%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	214613	9.741	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.41%			
53) toluene-D8	5.544	98	711913	9.917	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.17%			
67) bromofluorobenzene	7.210	95	463128	9.801	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.01%			
Target Compounds						Qvalue
2) propylene	2.004	41	6647	0.579	ppbV	97
3) dichlorodifluoromethane	2.026	85	27306	0.589	ppbV	99
4) chloromethane	2.076	50	7708M6	0.589	ppbV	
5) Freon-114	2.109	85	28432	0.589	ppbV	99
6) vinyl chloride	2.142	62	10079	0.596	ppbV	99
7) 1,3-butadiene	2.185	54	6541	0.594	ppbV #	19
8) bromomethane	2.273	94	10209	0.587	ppbV	100
9) chloroethane	2.328	64	5502	0.590	ppbV	92
10) ethanol	2.361	31	23991	3.625	ppbV	99
11) vinyl bromide	2.434	106	10553M4	0.585	ppbV	
12) acrolein	2.468	56	4141M4	0.599	ppbV	
13) acetone	2.507	43	51516	3.060	ppbV #	98
14) trichlorofluoromethane	2.553	101	24668	0.590	ppbV	100
15) isopropyl alcohol	2.570	45	30570	1.604	ppbV	100
16) acrylonitrile	2.632	53	6872M4	0.606	ppbV	
17) 1,1-dichloroethene	2.728	61	13681	0.594	ppbV	98
18) tertiary butyl alcohol	2.743	59	18631	0.614	ppbV #	87
19) methylene chloride	2.762	49	8661M4	0.608	ppbV	
20) 3-chloropropene	2.795	41	7763	0.572	ppbV	99
21) carbon disulfide	2.848	76	26327	0.584	ppbV	97
22) Freon 113	2.848	101	21254	0.585	ppbV	99
23) trans-1,2-dichloroethene	3.064	61	12057	0.581	ppbV	100
24) 1,1-dichloroethane	3.130	63	16179	0.586	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:30 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	24291	0.580	ppbV		94
26) vinyl acetate	3.197	43	17029M6	0.606	ppbV		
27) 2-butanone	3.285	43	18373	0.531	ppbV		99
28) cis-1,2-dichloroethene	3.443	61	13690	0.581	ppbV		99
29) Ethyl Acetate	3.562	61	4094M6	0.680	ppbV		
30) chloroform	3.562	83	23235	0.594	ppbV		100
31) Tetrahydrofuran	3.742	42	7215M6	0.545	ppbV		
32) 1,2-dichloroethane	3.871	62	13188	0.596	ppbV	#	75
34) hexane	3.547	57	15323	0.645	ppbV		88
36) 1,1,1-trichloroethane	3.985	97	23212	0.578	ppbV		100
37) benzene	4.179	78	36030	0.599	ppbV		98
38) carbon tetrachloride	4.255	117	23058	0.580	ppbV		98
39) cyclohexane	4.311	56	14731M6	0.618	ppbV		
40) Dibromomethane	4.547	93	13649	0.580	ppbV	#	99
41) 1,2-dichloropropane	4.566	63	11849	0.574	ppbV		99
42) bromodichloromethane	4.651	83	22751	0.574	ppbV		99
43) 1,4-dioxane	4.707	88	8012	0.601	ppbV		96
44) trichloroethene	4.688	130	18086	0.577	ppbV		99
45) 2,2,4-trimethylpentane	4.717	57	45088	0.598	ppbV		100
46) heptane	4.858	43	14038	0.582	ppbV		98
47) cis-1,3-dichloropropene	5.113	75	18748	0.573	ppbV		97
48) 4-methyl-2-pentanone	5.152	43	18196	0.556	ppbV		99
49) trans-1,3-dichloropropene	5.376	75	14488	0.550	ppbV		99
50) 1,1,2-trichloroethane	5.448	97	15821	0.569	ppbV		99
52) toluene	5.591	91	44787	0.588	ppbV		100
54) 2-hexanone	5.759	43	16659	0.541	ppbV	#	87
55) dibromochloromethane	5.783	129	23939	0.554	ppbV		100
56) 1,2-dibromoethane	5.895	107	24084	0.566	ppbV		99
57) tetrachloroethene	6.142	166	22916	0.579	ppbV		99
58) 1,1,1,2-tetrachloroethane	6.468	131	18496	0.561	ppbV	#	100
59) chlorobenzene	6.474	112	38074	0.576	ppbV	#	90
60) ethylbenzene	6.675	91	57480	0.580	ppbV		99
61) m+p-xylene	6.768	91	93773	1.180	ppbV		100
62) bromoform	6.768	173	21690	0.529	ppbV		100
63) styrene	6.943	104	34601	0.548	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	32828	0.574	ppbV		100
65) o-xylene	6.989	91	44901	0.590	ppbV		99
66) 1,2,3-Trichloropropane	7.053	75	23354	0.581	ppbV		99
68) isopropylbenzene	7.298	105	67232	0.604	ppbV		97
69) Bromobenzene	7.309	77	28905M6	0.624	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:30 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

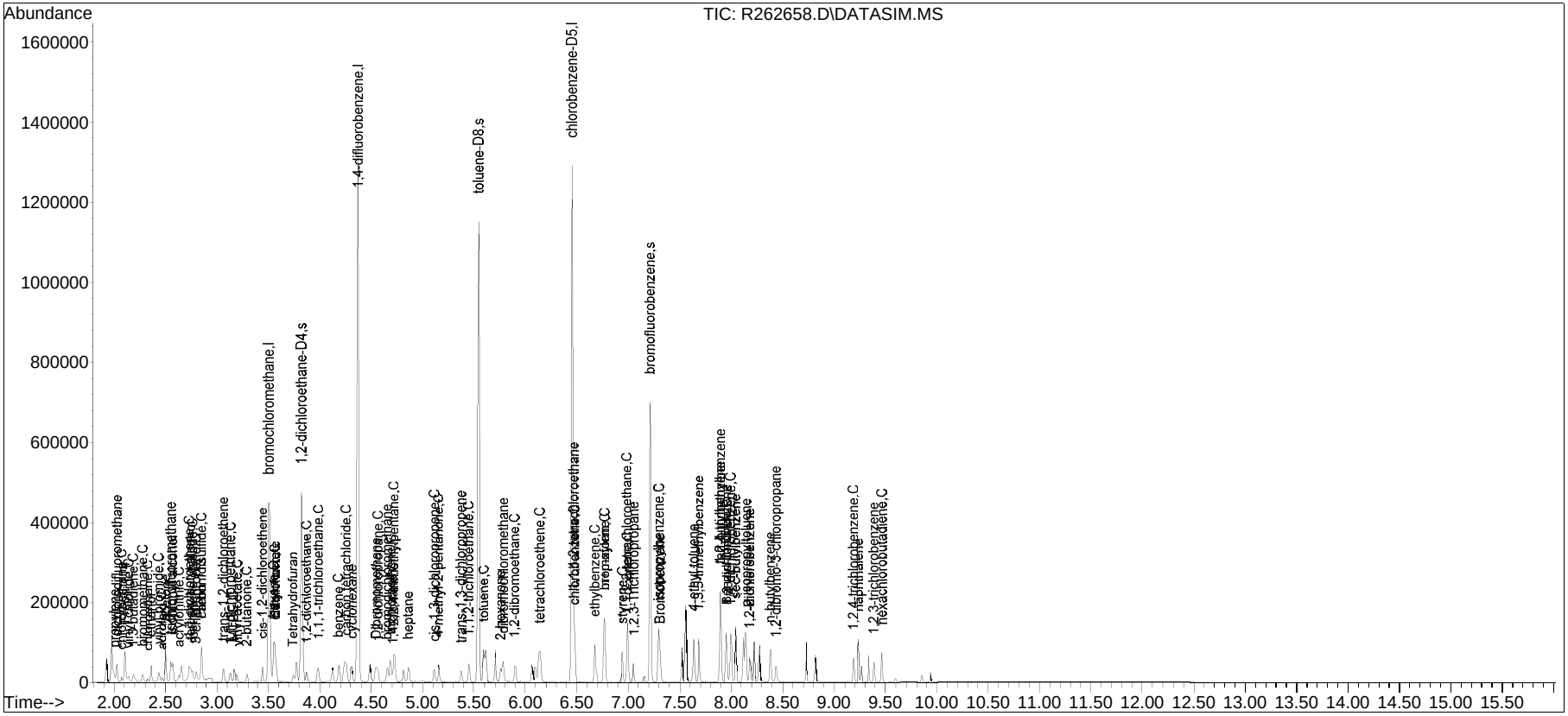
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	61820M6	0.561	ppbV		
71) 1,3,5-trimethylbenzene	7.685	105	52935M6	0.592	ppbV		
72) tert-butylbenzene	7.893	119	59324	0.580	ppbV		100
73) 1,2,4-trimethylbenzene	7.893	105	53472	0.562	ppbV		99
74) Benzyl Chloride	7.957	91	36193	0.486	ppbV		99
75) 1,3-dichlorobenzene	7.957	146	40628M6	0.559	ppbV		
76) 1,4-dichlorobenzene	7.997	146	41148M6	0.565	ppbV		
77) sec-butylbenzene	8.045	105	81407	0.595	ppbV		98
78) p-isopropyltoluene	8.148	119	65158M6	0.542	ppbV		
79) 1,2-dichlorobenzene	8.180	146	39996	0.568	ppbV		99
80) n-butylbenzene	8.380	91	61474	0.555	ppbV		99
81) 1,2-dibromo-3-chloropr...	8.436	75	14191	0.520	ppbV	#	90
82) 1,2,4-trichlorobenzene	9.186	180	34184	0.520	ppbV		100
83) naphthalene	9.239	128	82738	0.538	ppbV		99
84) 1,2,3-trichlorobenzene	9.391	180	30045	0.396	ppbV		100
85) hexachlorobutadiene	9.467	225	29626	0.558	ppbV		99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262658.D
Acq On : 03 Apr 2025 03:11 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD0.5
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:30 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

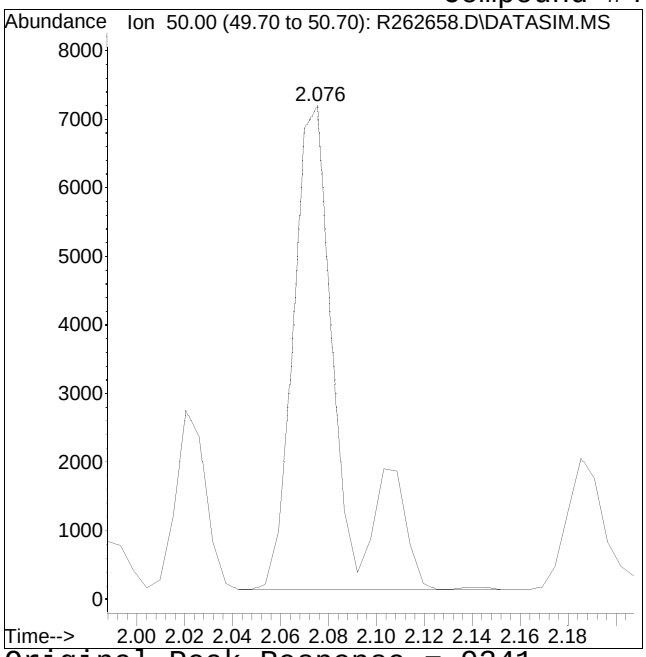


Manual Integration Report

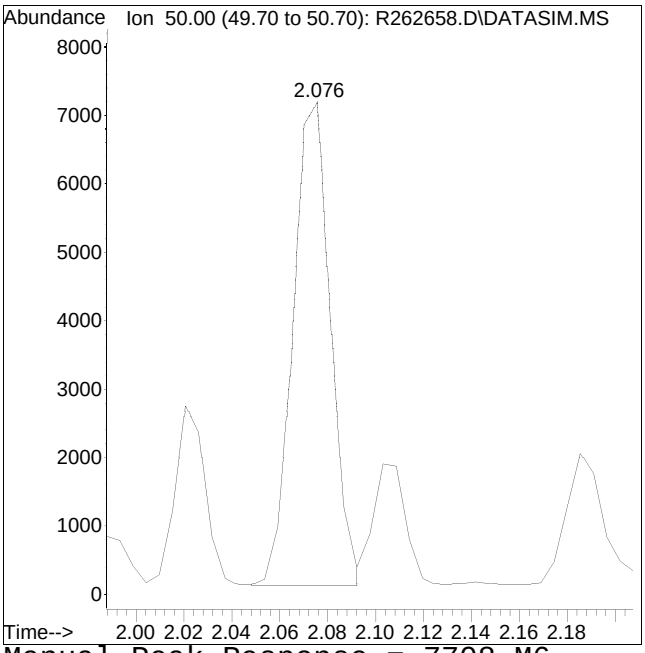
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262658.D
Date Inj'd : 4/3/2025 3:11 am
Sample : ITO15-LLSTD0.5

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 9341



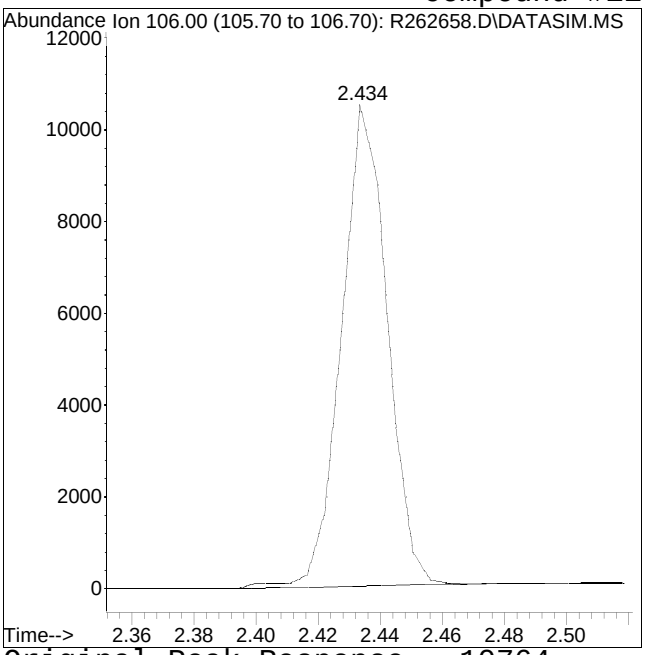
Manual Peak Response = 7708 M6

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

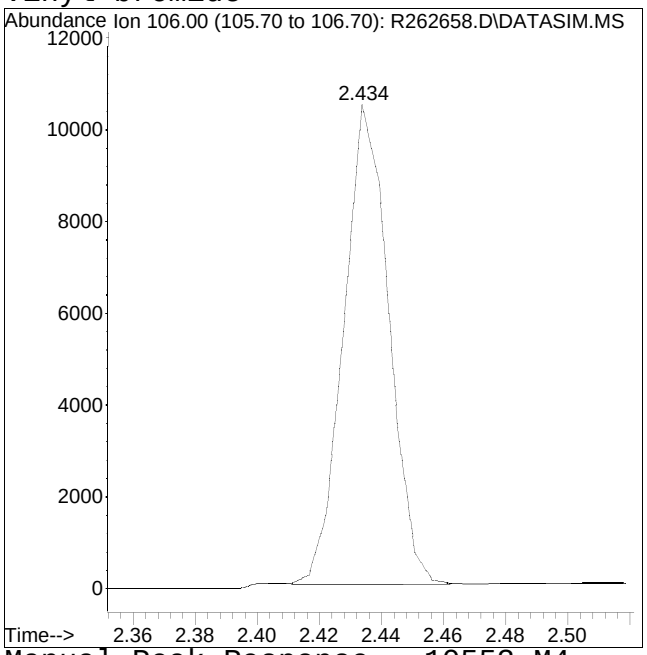
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #11: vinyl bromide



Original Peak Response = 10764



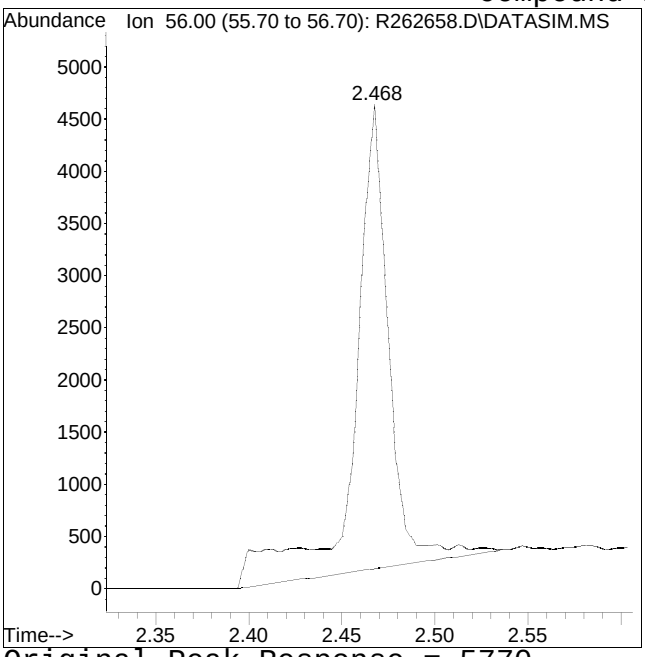
Manual Peak Response = 10553 M4

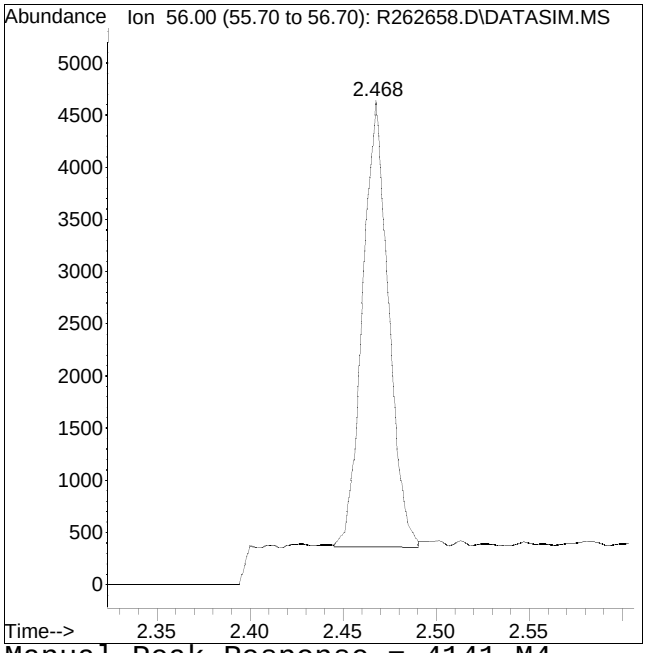
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #12: acrolein



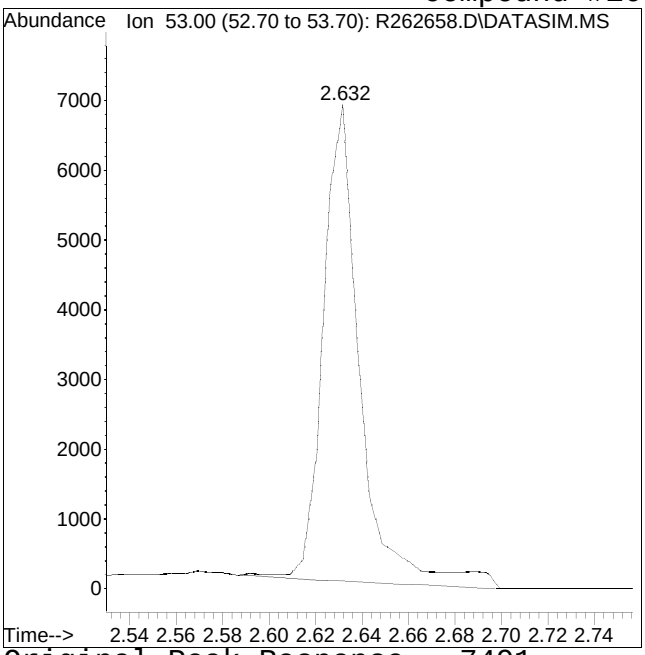


Original Peak Response = 5770 Manual Peak Response = 4141 M4
M4 = Poor automated baseline construction.

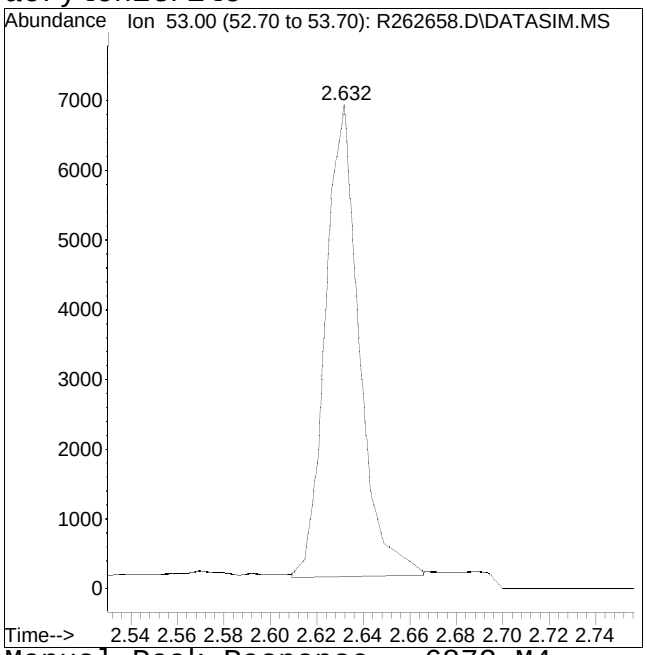
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 7491



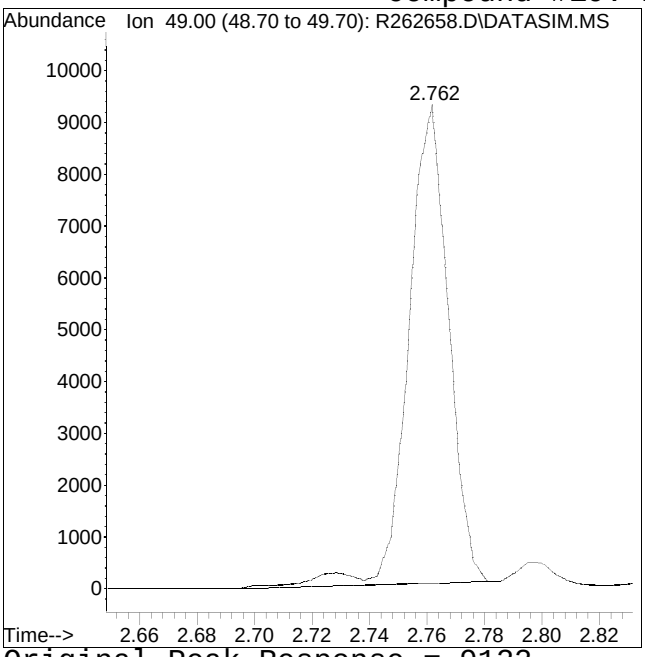
Manual Peak Response = 6872 M4

M4 = Poor automated baseline construction.

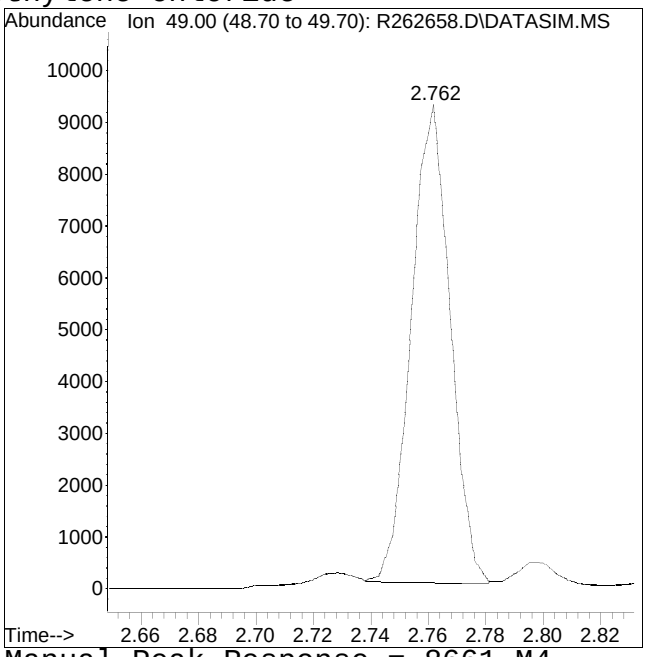
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 9122



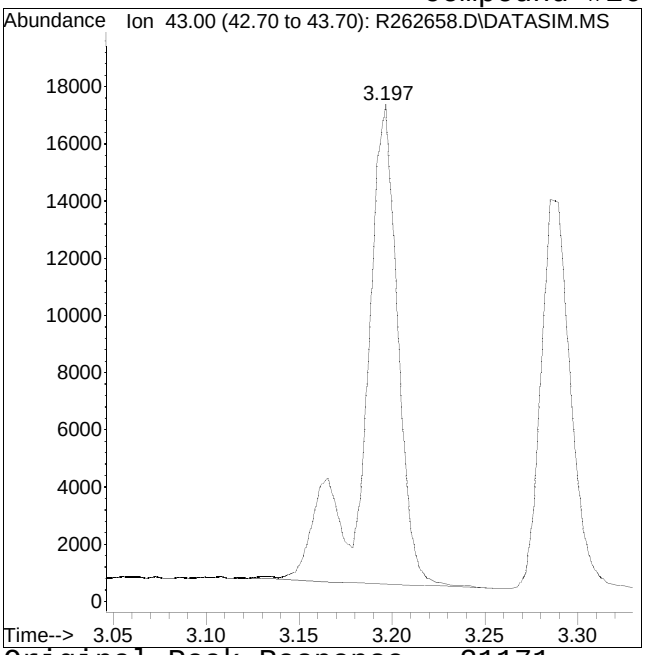
Manual Peak Response = 8661 M4

M4 = Poor automated baseline construction.

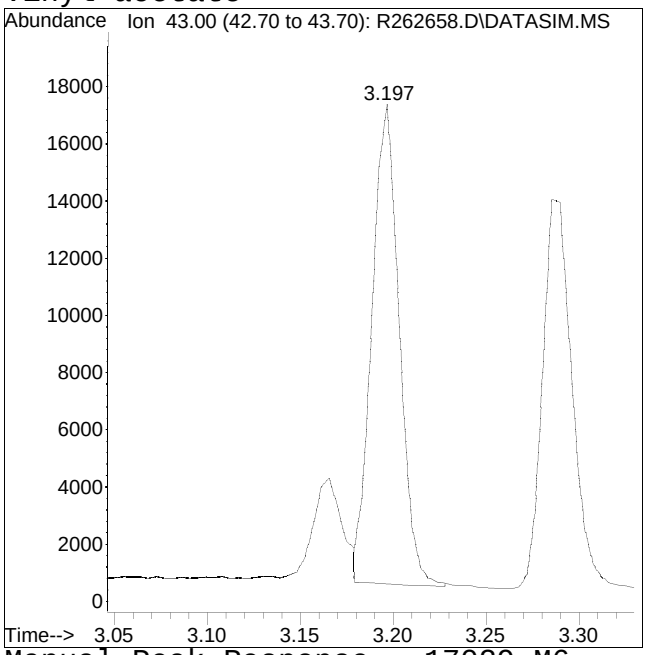
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 21171



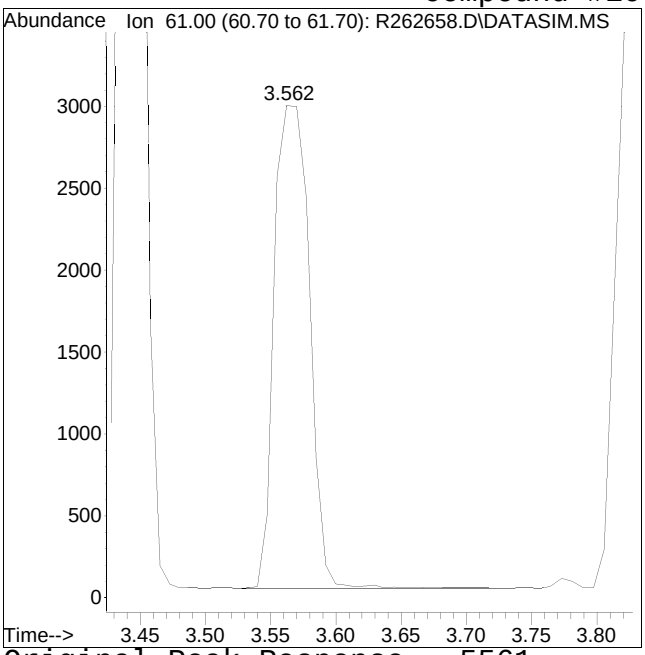
Manual Peak Response = 17029 M6

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

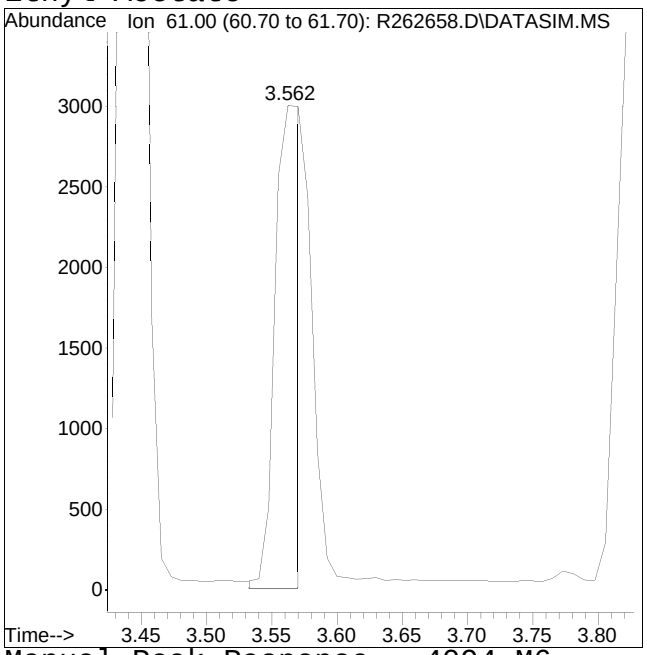
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 5561



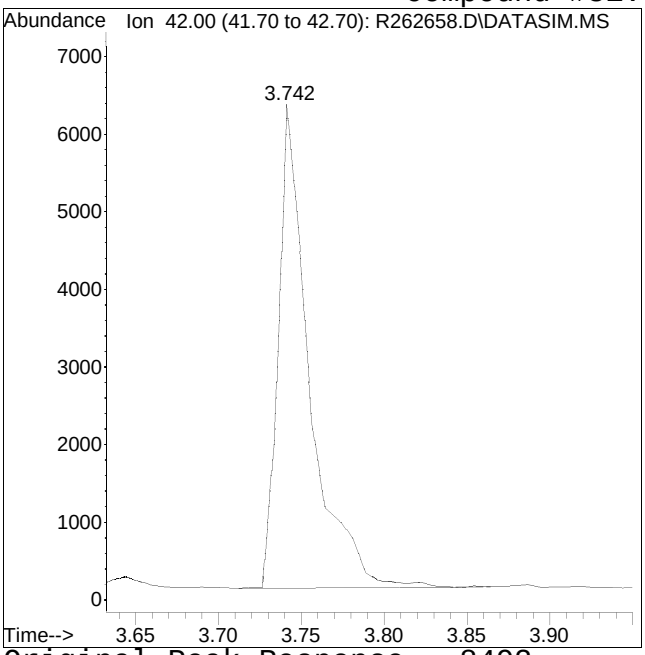
Manual Peak Response = 4094 M6

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

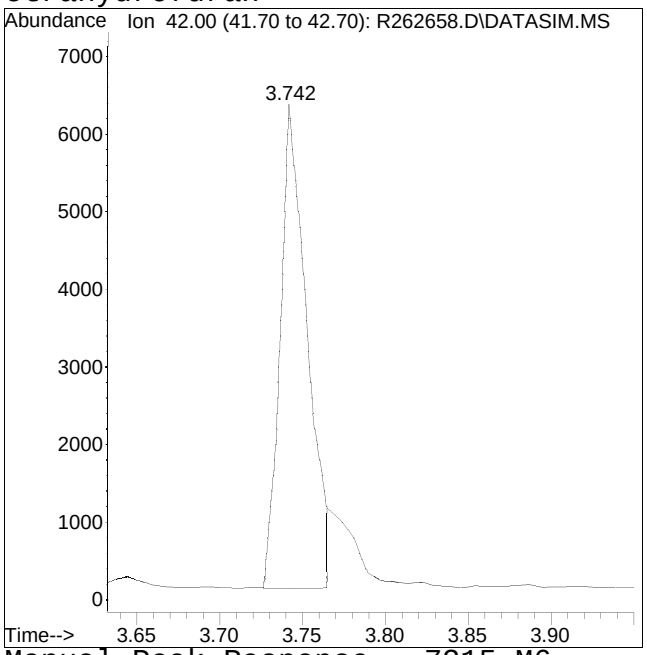
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 8492



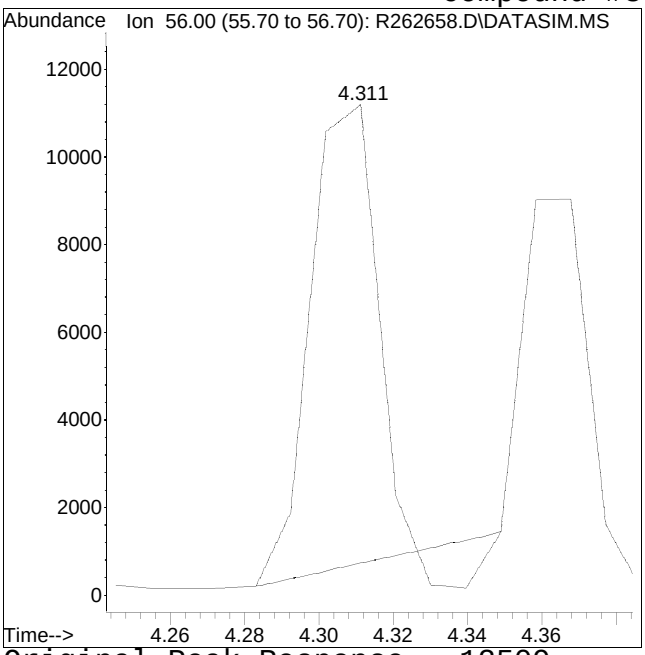
Manual Peak Response = 7215 M6

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

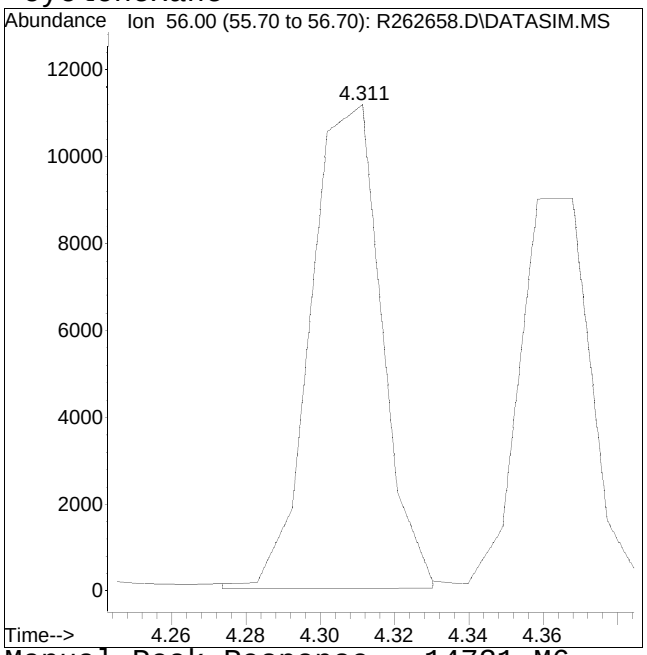
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #39: cyclohexane



Original Peak Response = 12509



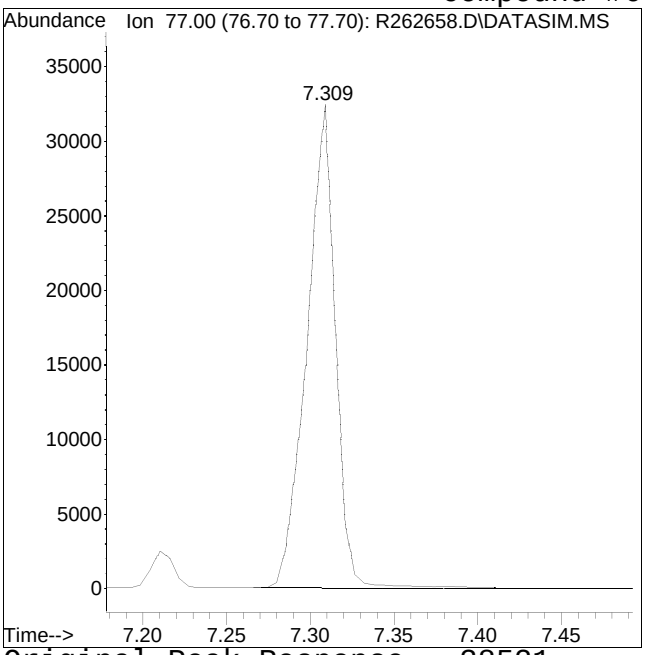
Manual Peak Response = 14731 M6

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

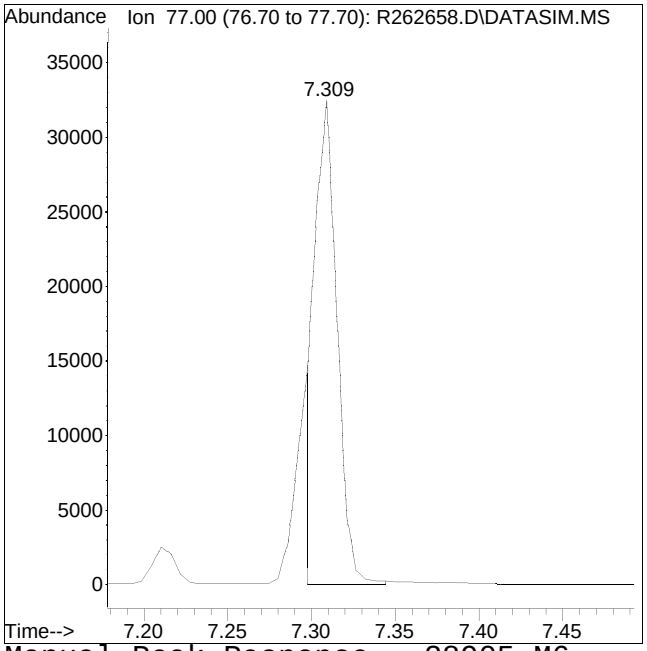
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 38521



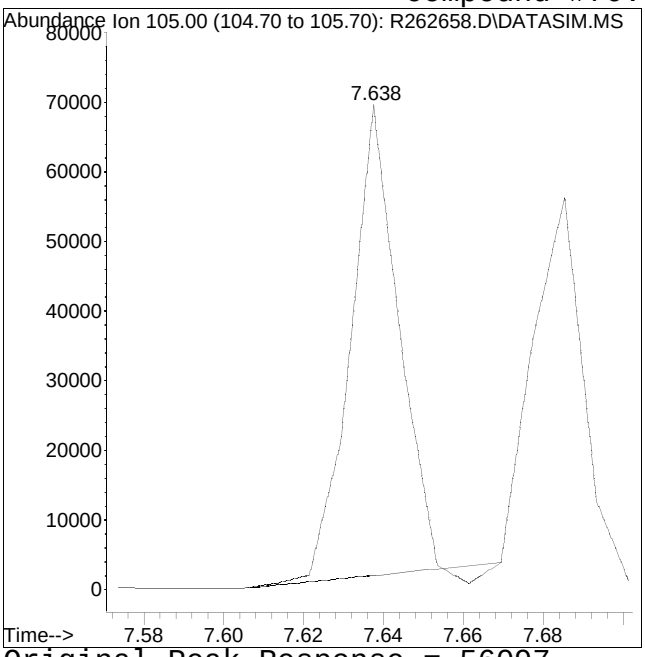
Manual Peak Response = 28905 M6

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

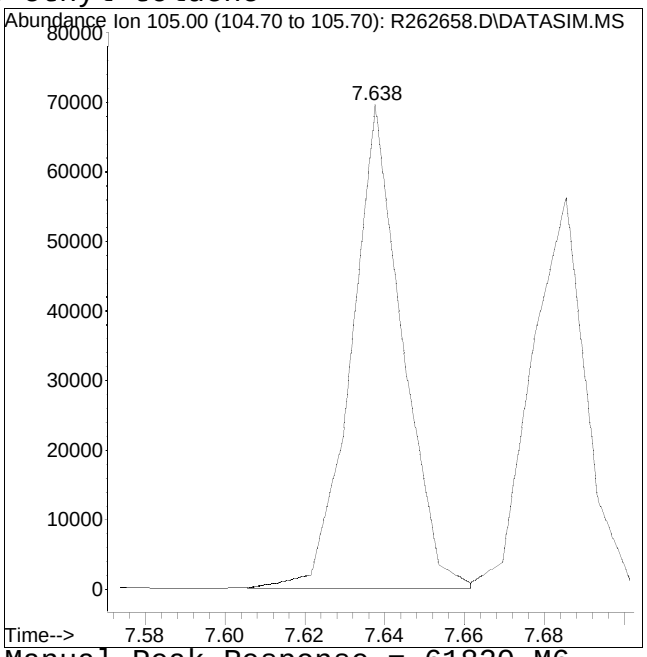
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 56097



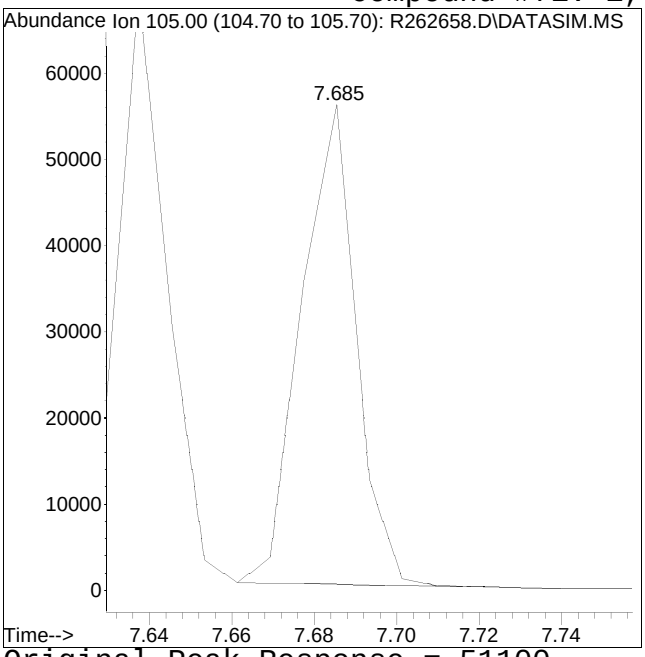
Manual Peak Response = 61820 M6

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

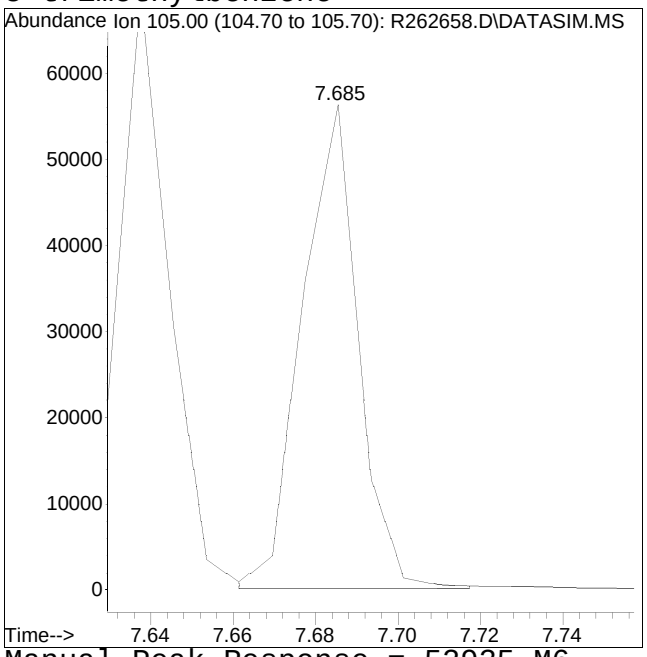
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 51100



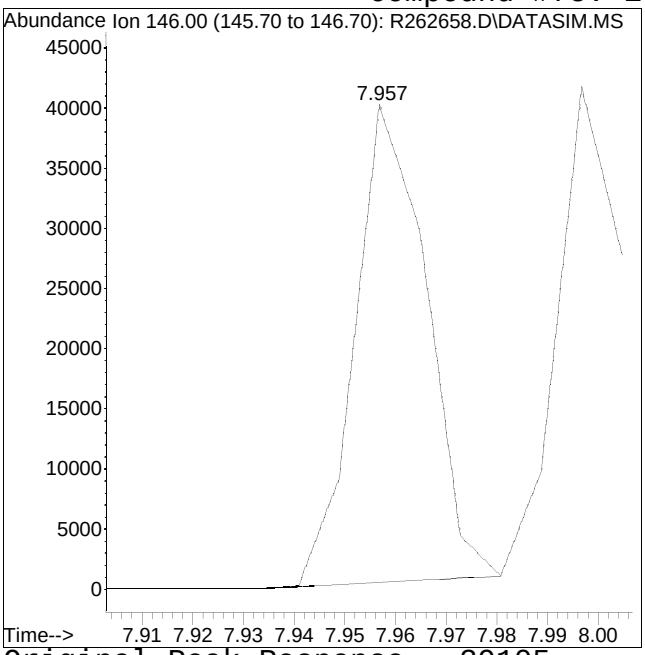
Manual Peak Response = 52935 M6

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

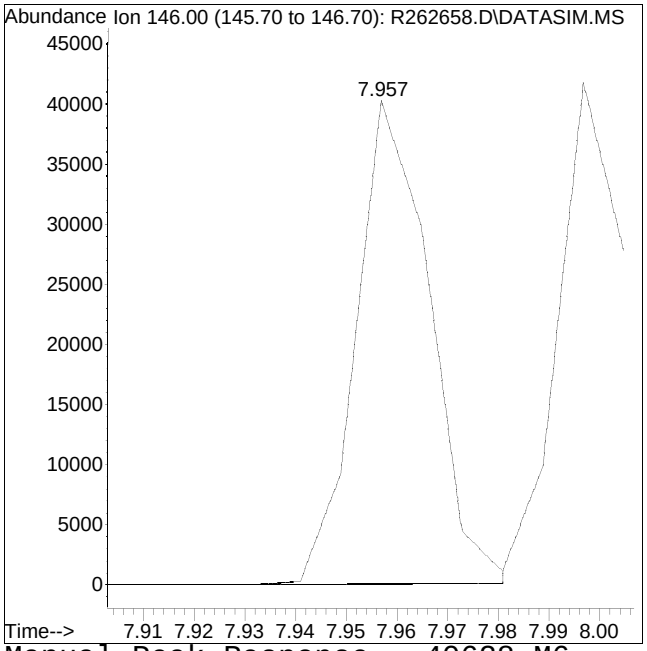
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 39105



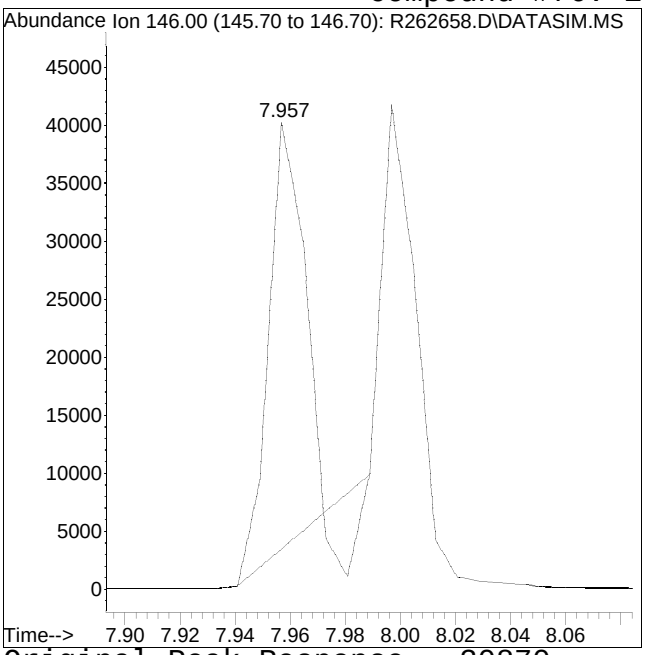
Manual Peak Response = 40628 M6

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

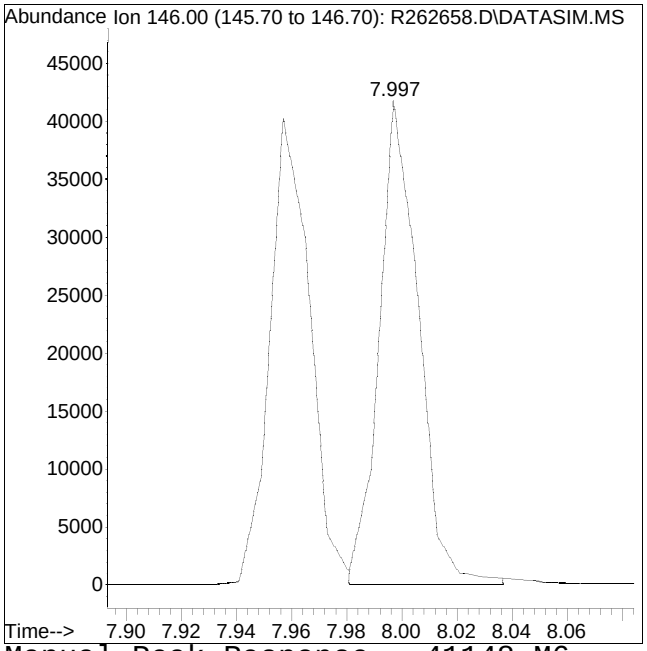
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 30870



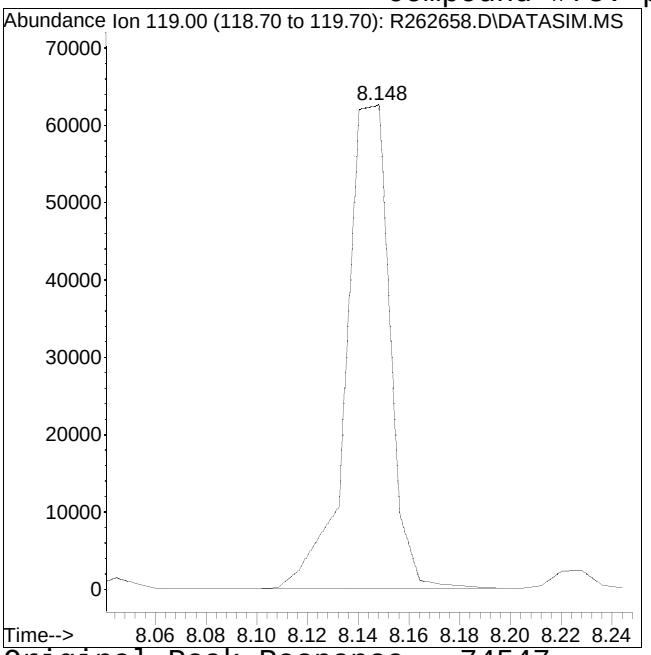
Manual Peak Response = 41148 M6

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

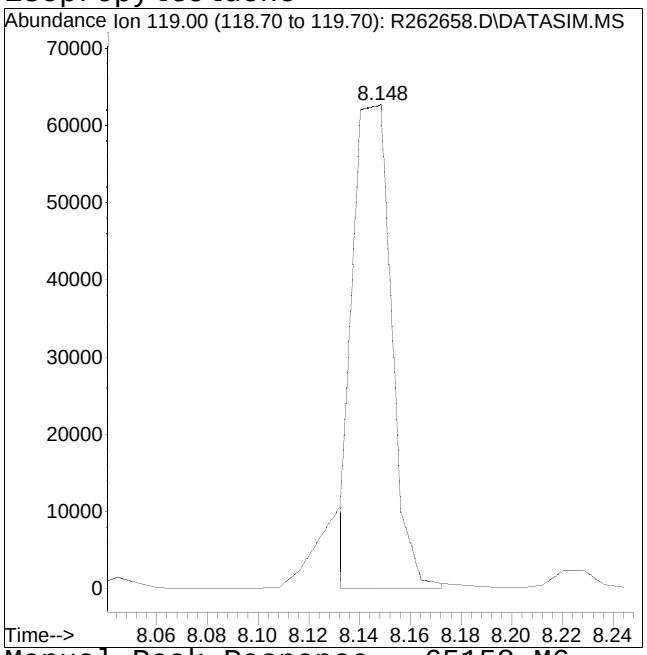
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262658.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:11 am Instrument : Airlab26
Sample : ITO15-LLSTD0.5 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 74547



Manual Peak Response = 65158 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\04\0402SIM_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.502	49	216346	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 101.79%			
33) 1,4-difluorobenzene	4.368	114	939633	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 101.71%			
51) chlorobenzene-D5	6.453	54	106935	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 102.30%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	215994	9.945	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.45%			
53) toluene-D8	5.537	98	711353	9.950	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.50%			
67) bromofluorobenzene	7.211	95	462474	9.827	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.27%			
Target Compounds						Qvalue
2) propylene	2.004	41	13558	1.208	ppbV	99
3) dichlorodifluoromethane	2.026	85	53793	1.186	ppbV	100
4) chloromethane	2.076	50	15203M6	1.189	ppbV	
5) Freon-114	2.109	85	56100	1.190	ppbV	100
6) vinyl chloride	2.147	62	19713	1.193	ppbV	100
7) 1,3-butadiene	2.186	54	12741	1.184	ppbV #	21
8) bromomethane	2.274	94	20061	1.180	ppbV	100
9) chloroethane	2.329	64	10721	1.176	ppbV	96
10) ethanol	2.361	31	41209	6.369	ppbV	99
11) vinyl bromide	2.434	106	21000	1.191	ppbV	100
12) acrolein	2.468	56	8328	1.233	ppbV #	79
13) acetone	2.502	43	100527	6.108	ppbV #	99
14) trichlorofluoromethane	2.553	101	48549	1.187	ppbV	100
15) isopropyl alcohol	2.570	45	55481	2.977	ppbV	100
16) acrylonitrile	2.626	53	13526M4	1.219	ppbV	
17) 1,1-dichloroethene	2.728	61	26749	1.189	ppbV	99
18) tertiary butyl alcohol	2.742	59	32484	1.095	ppbV #	93
19) methylene chloride	2.761	49	16749M4	1.202	ppbV	
20) 3-chloropropene	2.795	41	15549	1.172	ppbV	100
21) carbon disulfide	2.847	76	52504	1.191	ppbV	97
22) Freon 113	2.847	101	42020	1.183	ppbV	100
23) trans-1,2-dichloroethene	3.059	61	23745	1.170	ppbV	100
24) 1,1-dichloroethane	3.130	63	31848	1.179	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.161	73	48053	1.175	ppbV		95
26) vinyl acetate	3.192	43	34385M6	1.252	ppbV		
27) 2-butanone	3.285	43	38354	1.133	ppbV		99
28) cis-1,2-dichloroethene	3.443	61	26988	1.172	ppbV		99
29) Ethyl Acetate	3.555	61	6148M6	1.045	ppbV		
30) chloroform	3.562	83	45367	1.187	ppbV		99
31) Tetrahydrofuran	3.734	42	14800M6	1.143	ppbV		
32) 1,2-dichloroethane	3.870	62	25940	1.199	ppbV	#	85
34) hexane	3.547	57	29969	1.279	ppbV		90
36) 1,1,1-trichloroethane	3.985	97	45770	1.156	ppbV		100
37) benzene	4.179	78	70566	1.190	ppbV		99
38) carbon tetrachloride	4.255	117	45067	1.150	ppbV		100
39) cyclohexane	4.302	56	28710M6	1.222	ppbV		
40) Dibromomethane	4.537	93	27173	1.171	ppbV	#	99
41) 1,2-dichloropropane	4.566	63	23366	1.149	ppbV		99
42) bromodichloromethane	4.650	83	44680	1.144	ppbV		99
43) 1,4-dioxane	4.698	88	14875	1.133	ppbV		98
44) trichloroethene	4.679	130	36369	1.177	ppbV		100
45) 2,2,4-trimethylpentane	4.716	57	88922	1.196	ppbV		99
46) heptane	4.858	43	27639	1.163	ppbV		100
47) cis-1,3-dichloropropene	5.106	75	36950	1.145	ppbV		99
48) 4-methyl-2-pentanone	5.146	43	36484M4	1.131	ppbV		
49) trans-1,3-dichloropropene	5.377	75	29596	1.140	ppbV		99
50) 1,1,2-trichloroethane	5.449	97	31778	1.160	ppbV		99
52) toluene	5.585	91	88574	1.168	ppbV		100
54) 2-hexanone	5.752	43	34057	1.110	ppbV	#	94
55) dibromochloromethane	5.784	129	48153	1.120	ppbV		100
56) 1,2-dibromoethane	5.896	107	48813	1.152	ppbV		100
57) tetrachloroethene	6.143	166	46232	1.172	ppbV		99
58) 1,1,1,2-tetrachloroethane	6.469	131	37374	1.138	ppbV	#	100
59) chlorobenzene	6.475	112	75683	1.150	ppbV		95
60) ethylbenzene	6.677	91	113848	1.154	ppbV		100
61) m+p-xylene	6.764	91	188248	2.378	ppbV		99
62) bromoform	6.764	173	44439	1.089	ppbV		100
63) styrene	6.938	104	69984	1.113	ppbV		100
64) 1,1,2,2-tetrachloroethane	6.984	83	65786	1.155	ppbV		99
65) o-xylene	6.990	91	89676	1.184	ppbV		99
66) 1,2,3-Trichloropropane	7.048	75	46711	1.167	ppbV		99
68) isopropylbenzene	7.299	105	133244	1.201	ppbV		97
69) Bromobenzene	7.305	77	52765M6	1.144	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

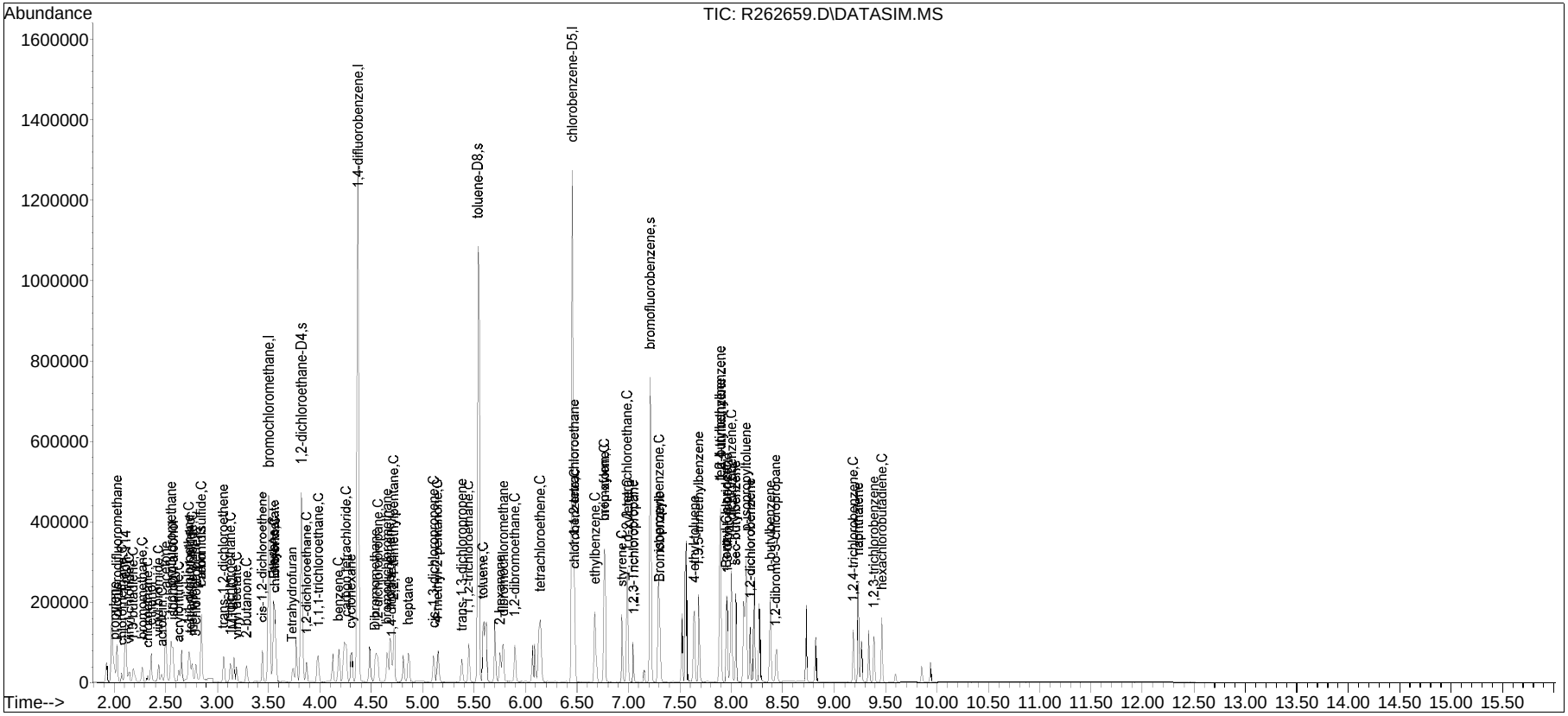
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.641	105	122511M6	1.117	ppbV		
71) 1,3,5-trimethylbenzene	7.681	105	104192M6	1.170	ppbV		
72) tert-butylbenzene	7.896	119	118069	1.159	ppbV		100
73) 1,2,4-trimethylbenzene	7.896	105	109013	1.150	ppbV		100
74) Benzyl Chloride	7.952	91	76336	1.030	ppbV		99
75) 1,3-dichlorobenzene	7.960	146	81897M6	1.132	ppbV		
76) 1,4-dichlorobenzene	8.000	146	82547M6	1.138	ppbV		
77) sec-butylbenzene	8.040	105	160361	1.177	ppbV		99
78) p-isopropyltoluene	8.144	119	137766M6	1.150	ppbV		
79) 1,2-dichlorobenzene	8.184	146	80563	1.149	ppbV		100
80) n-butylbenzene	8.383	91	122303	1.109	ppbV		99
81) 1,2-dibromo-3-chloropr...	8.431	75	28793	1.060	ppbV	#	92
82) 1,2,4-trichlorobenzene	9.183	180	75459	1.153	ppbV		99
83) naphthalene	9.236	128	192760	1.258	ppbV		99
84) 1,2,3-trichlorobenzene	9.388	180	69214	0.916	ppbV		100
85) hexachlorobutadiene	9.464	225	61289	1.158	ppbV		100

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262659.D
Acq On : 03 Apr 2025 03:47 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD1.0
Misc : WG2049330
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Apr 03 13:19:37 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

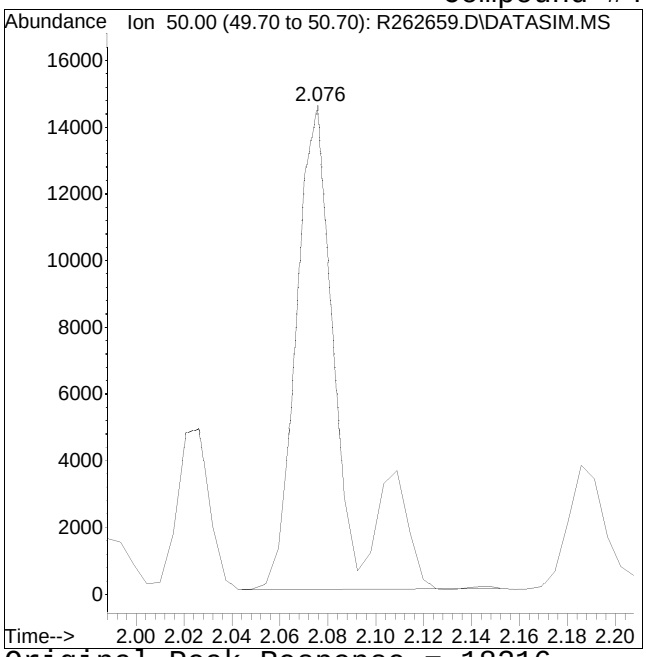


Manual Integration Report

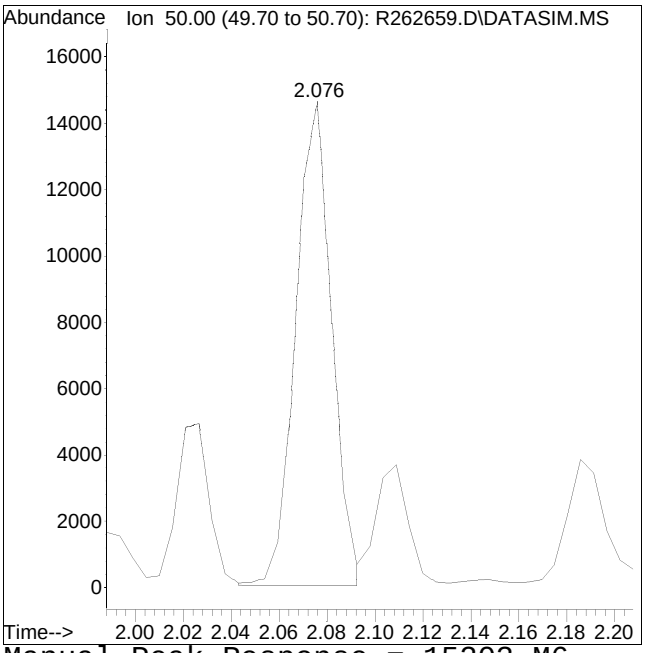
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262659.D
Date Inj'd : 4/3/2025 3:47 am
Sample : ITO15-LLSTD1.0

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 18216



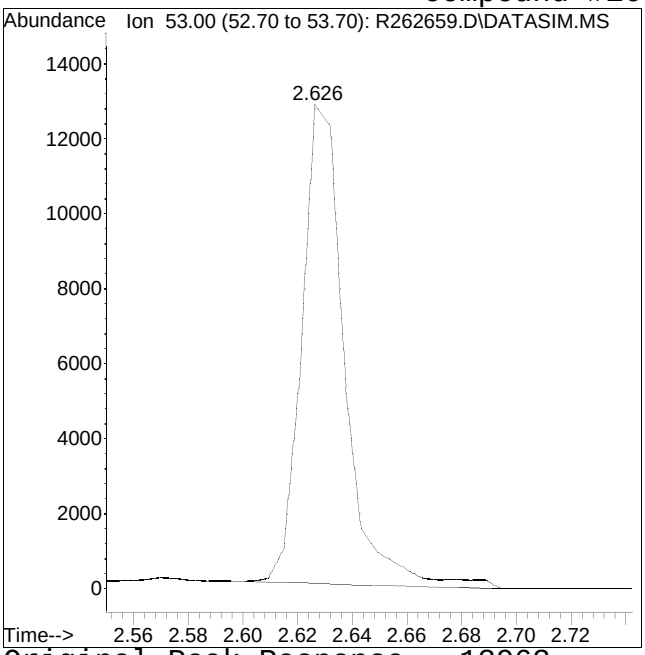
Manual Peak Response = 15203 M6

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

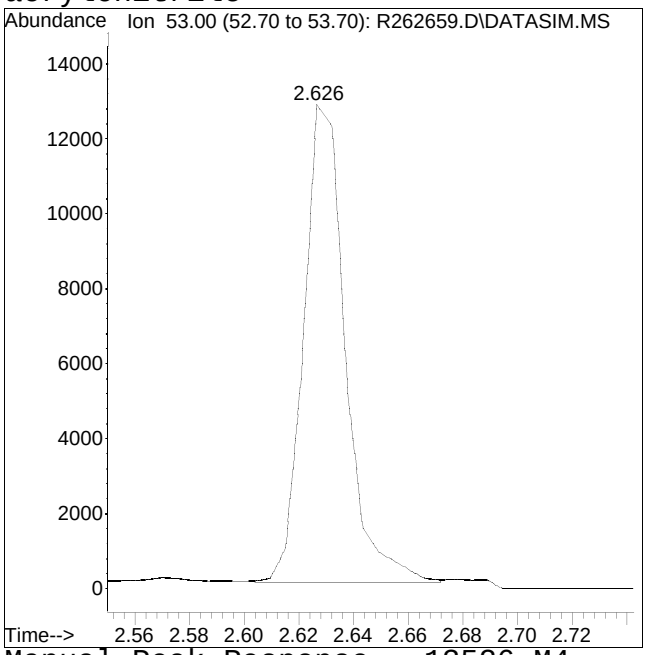
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 13963



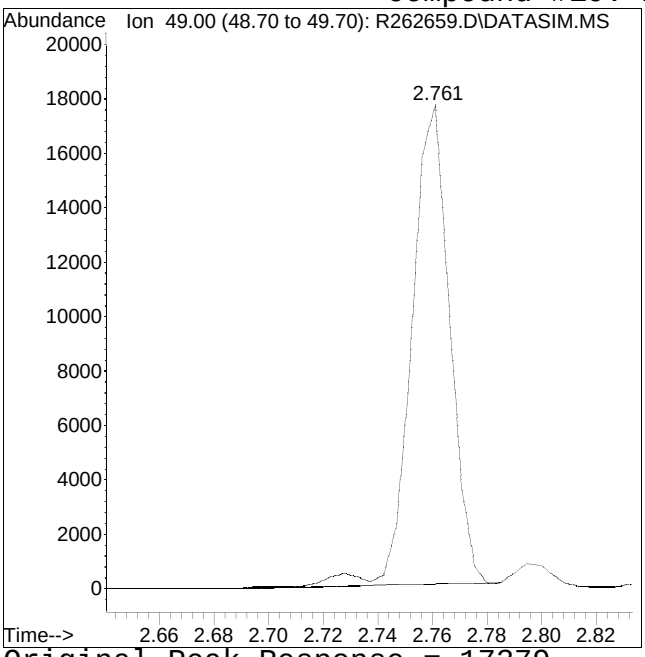
Manual Peak Response = 13526 M4

M4 = Poor automated baseline construction.

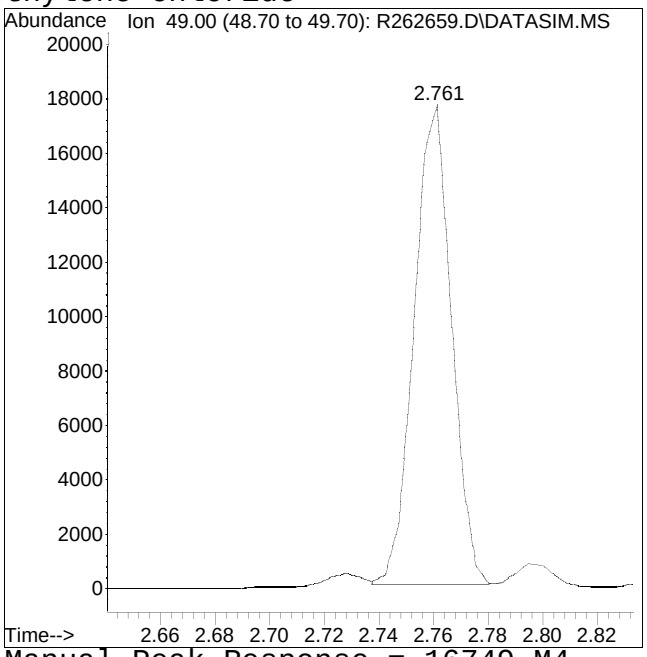
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 17379



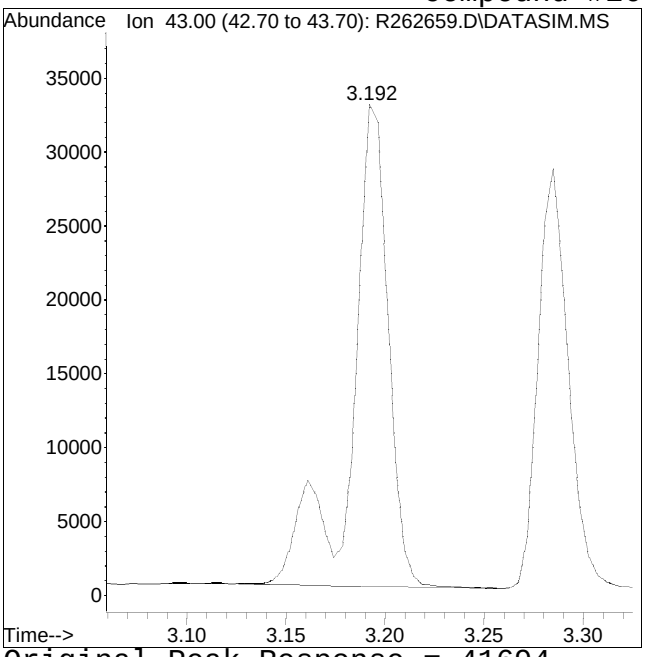
Manual Peak Response = 16749 M4

M4 = Poor automated baseline construction.

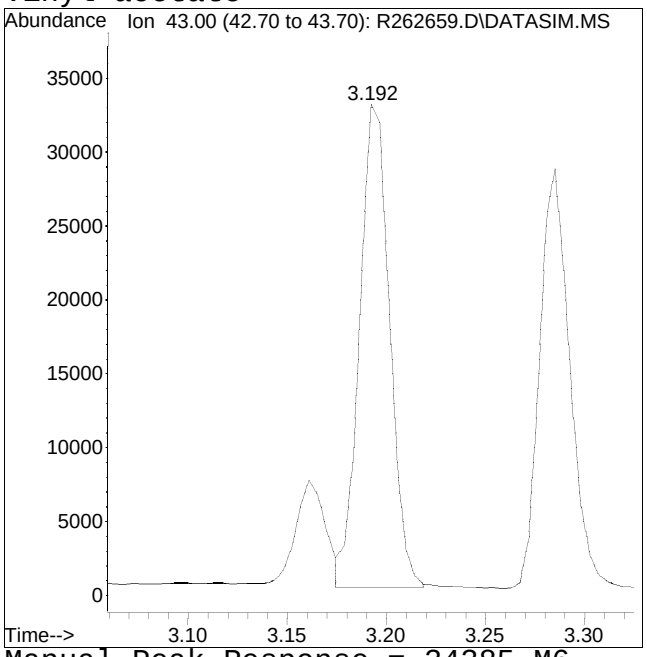
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 41694



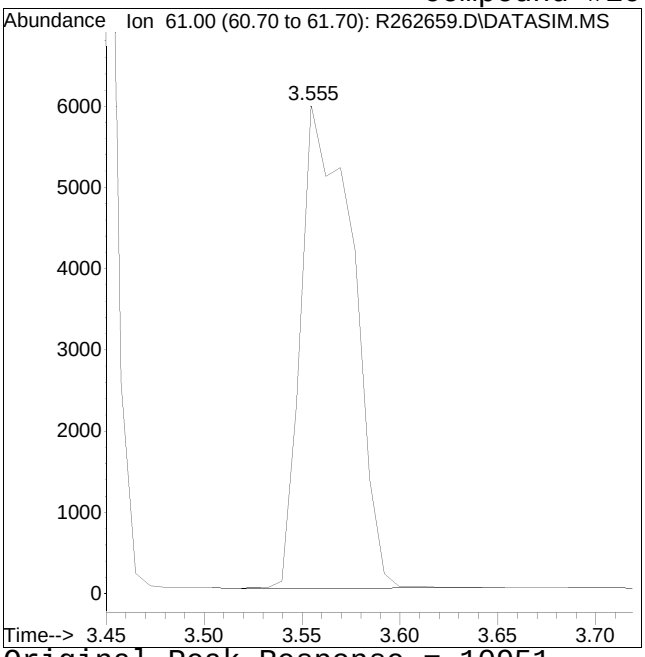
Manual Peak Response = 34385 M6

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

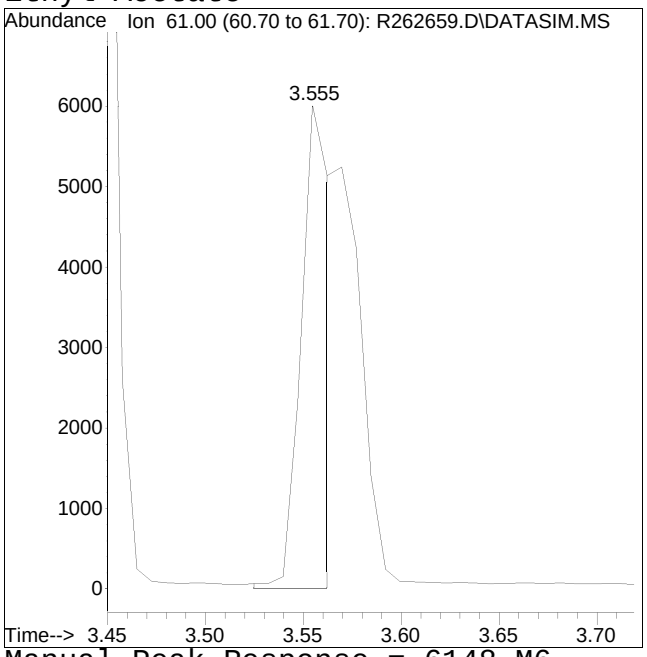
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 10951



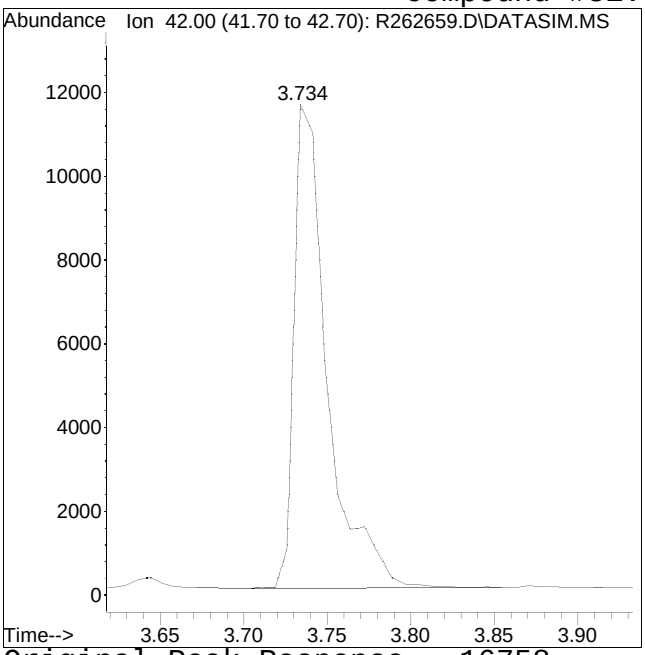
Manual Peak Response = 6148 M6

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

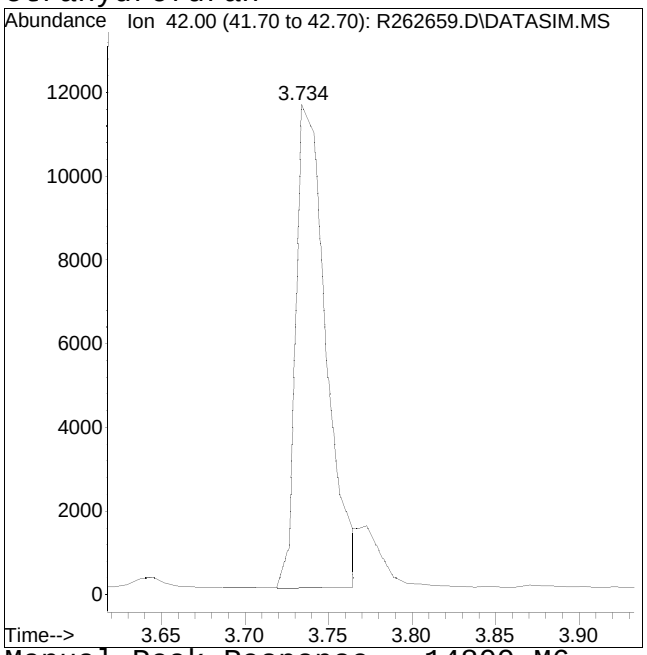
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 16758



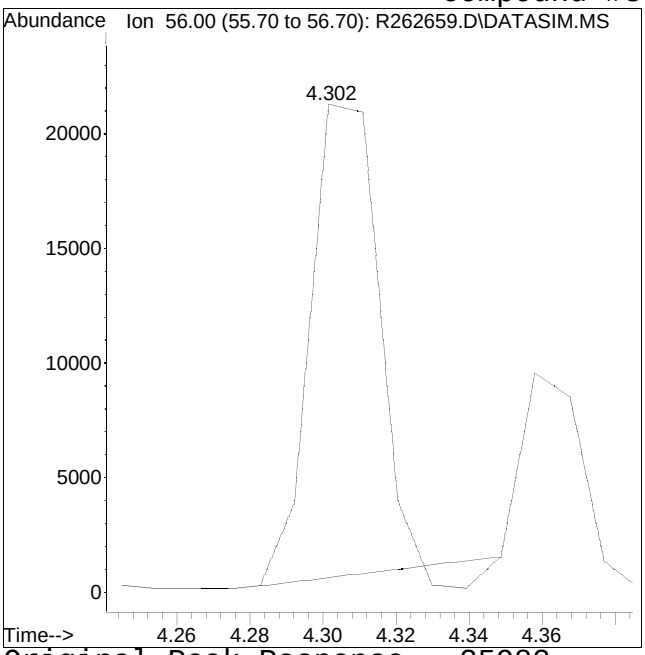
Manual Peak Response = 14800 M6

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

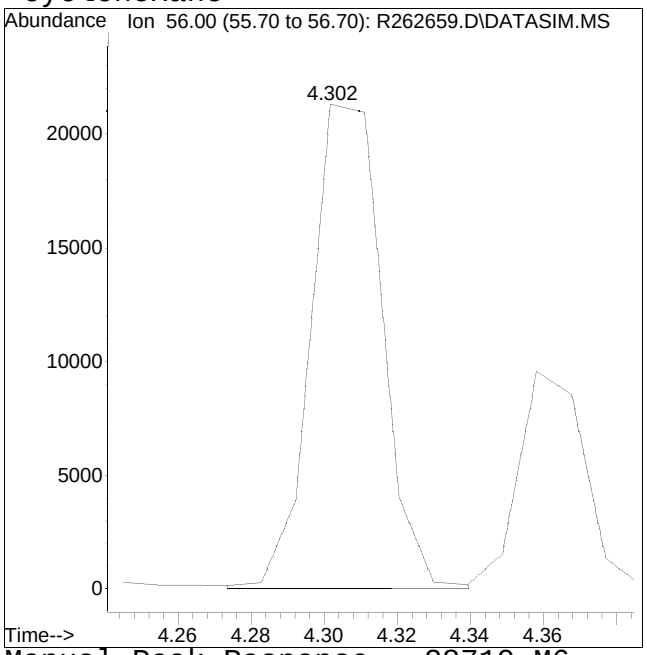
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #39: cyclohexane



Original Peak Response = 25982



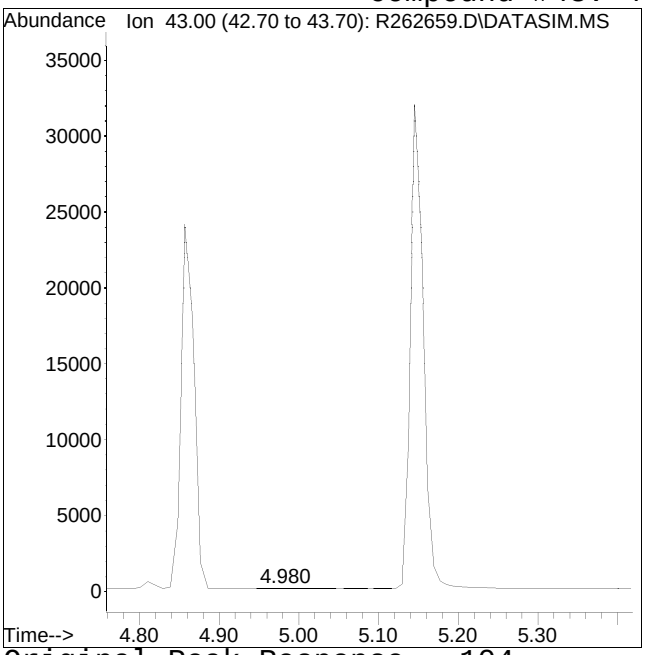
Manual Peak Response = 28710 M6

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

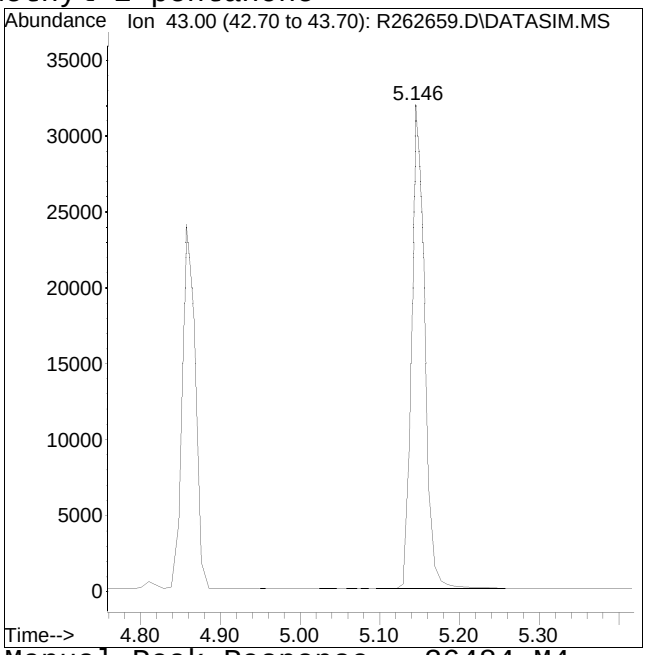
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 104



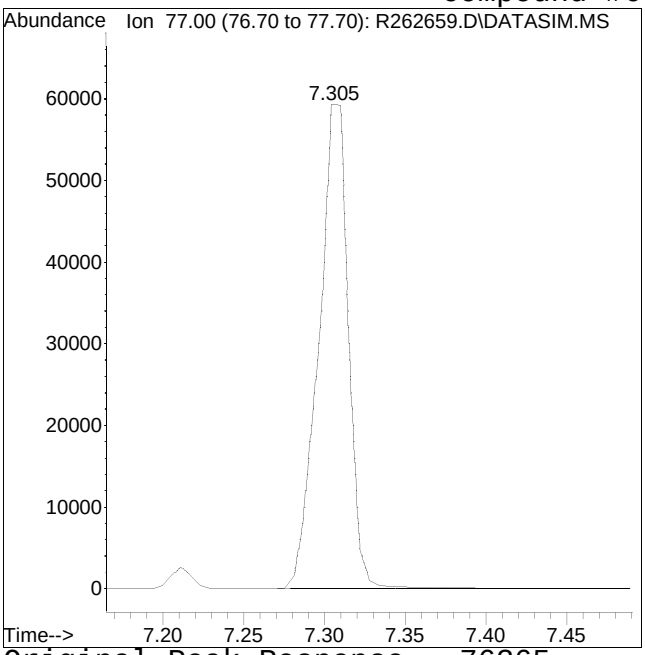
Manual Peak Response = 36484 M4

M4 = Poor automated baseline construction.

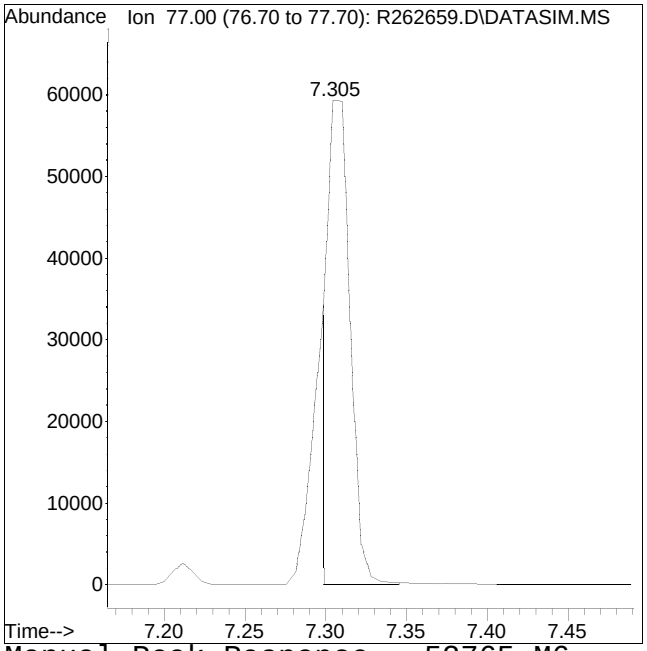
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 76365



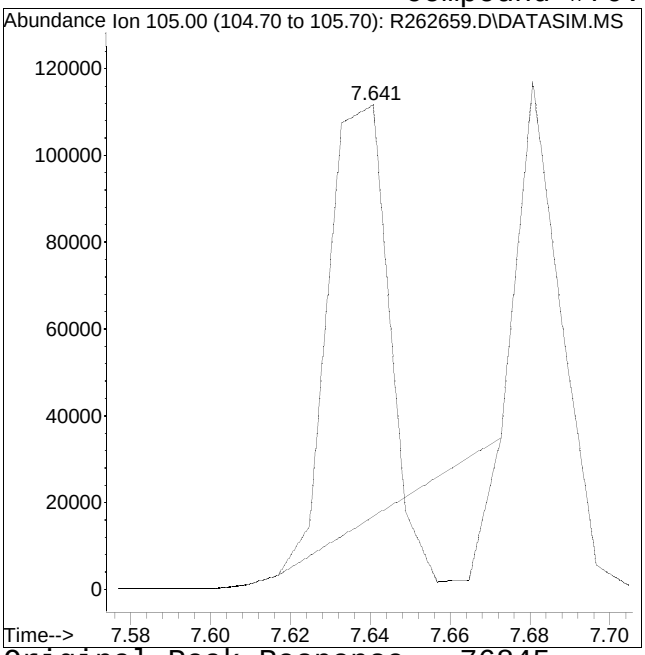
Manual Peak Response = 52765 M6

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

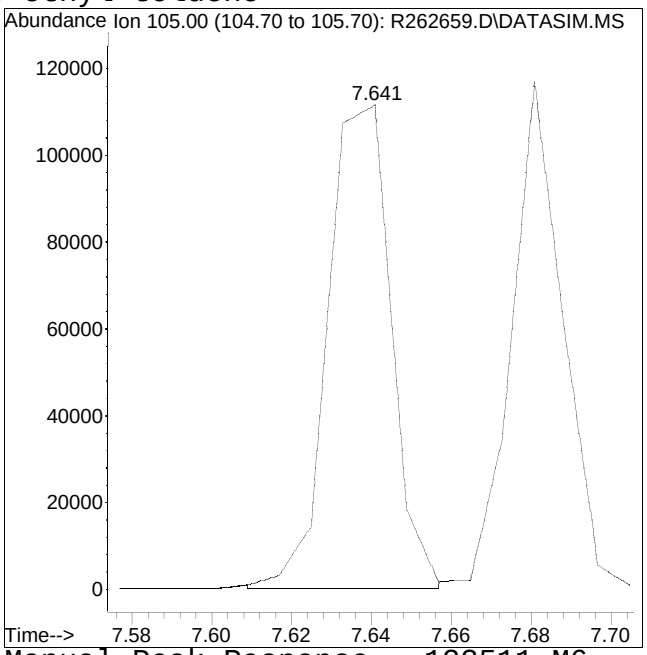
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 76845



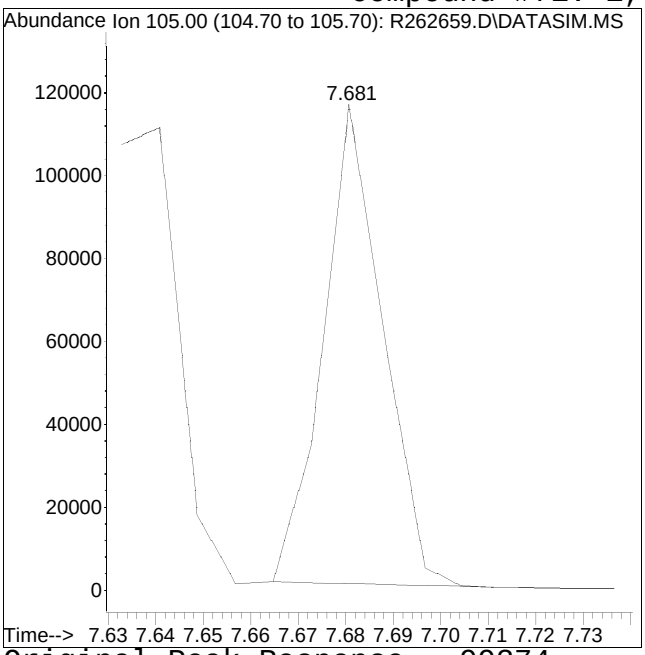
Manual Peak Response = 122511 M6

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

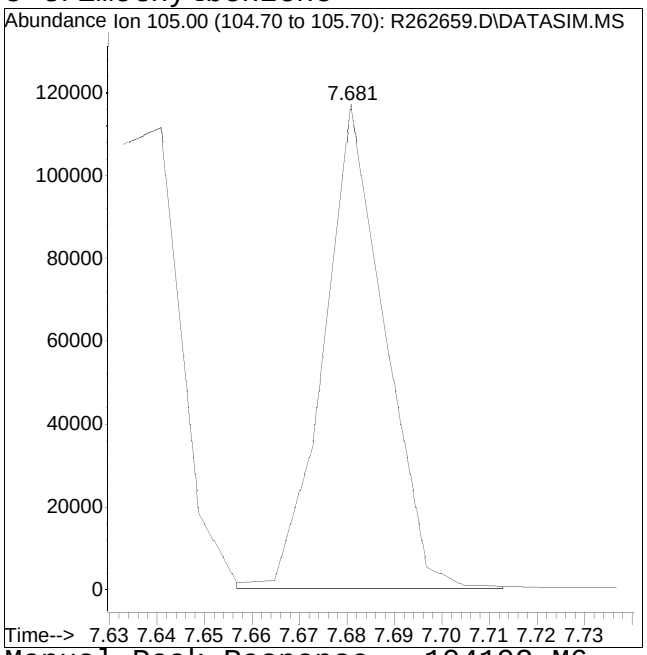
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 99374



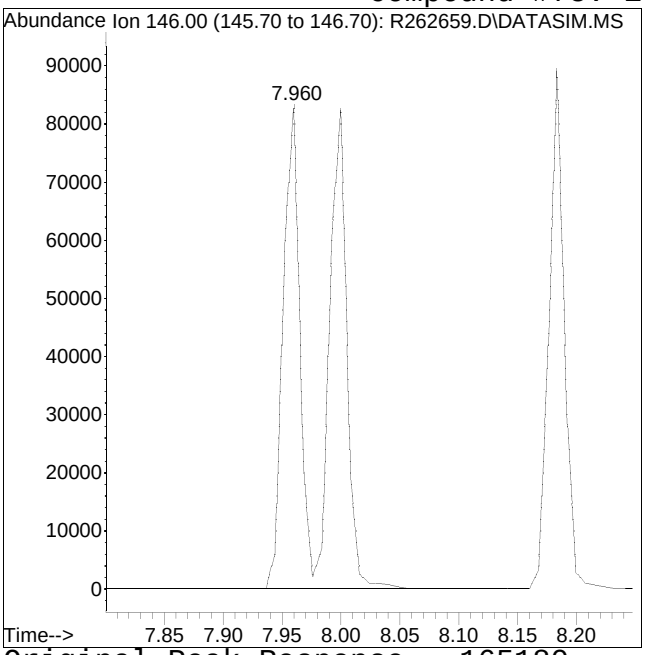
Manual Peak Response = 104192 M6

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

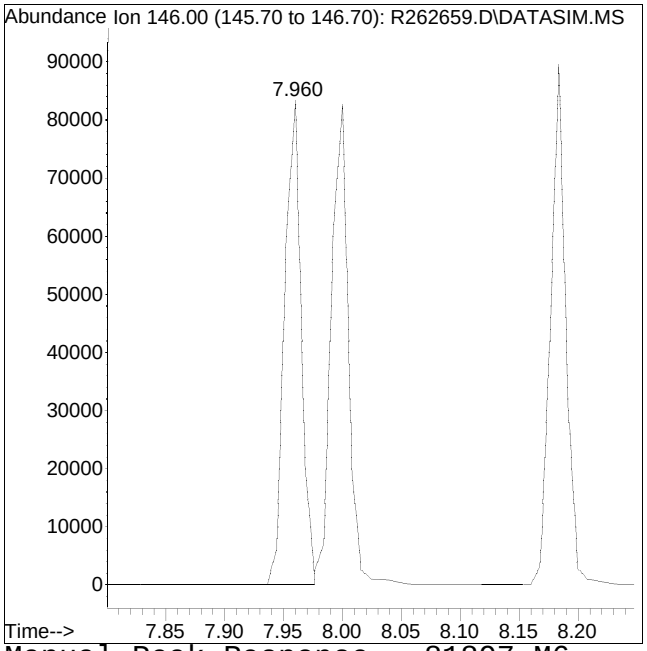
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 165180



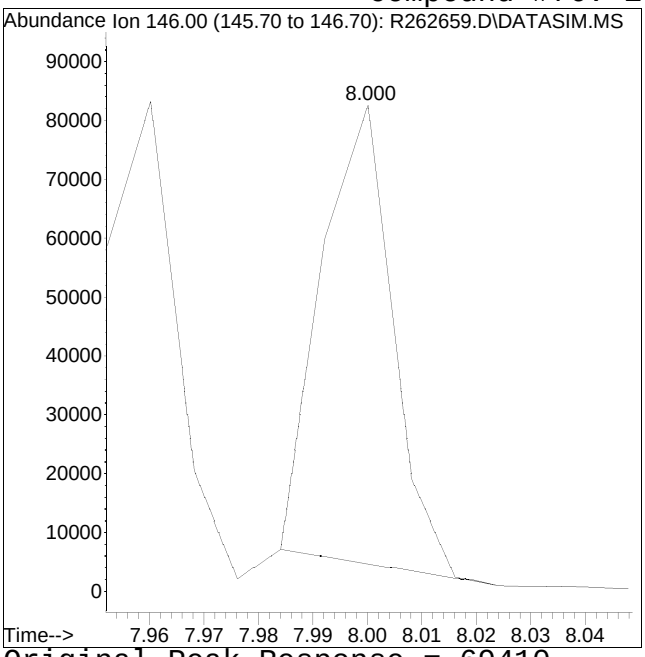
Manual Peak Response = 81897 M6

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

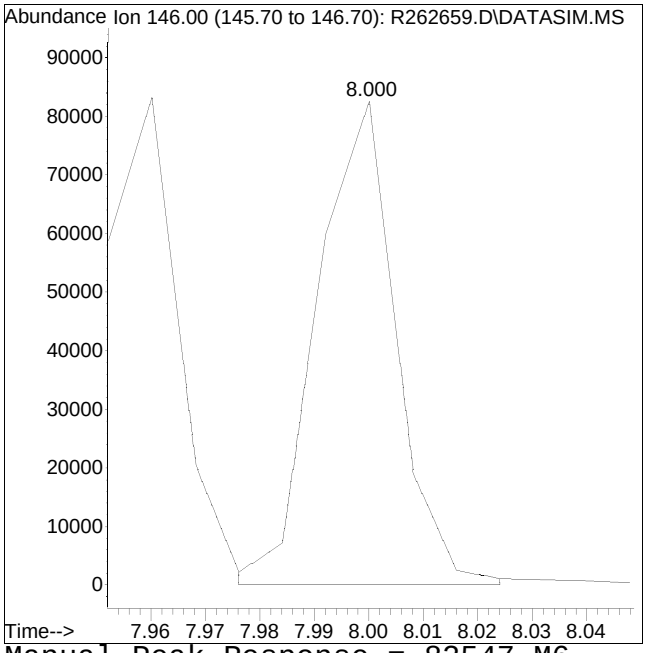
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 69410



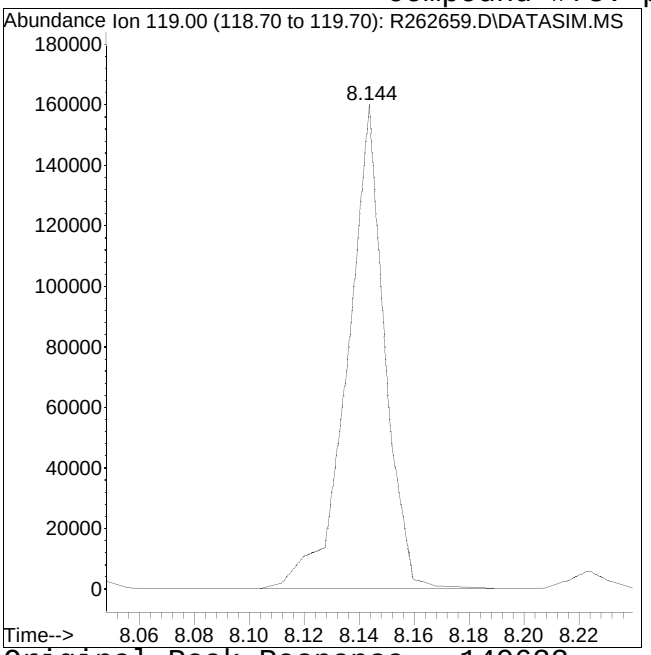
Manual Peak Response = 82547 M6

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

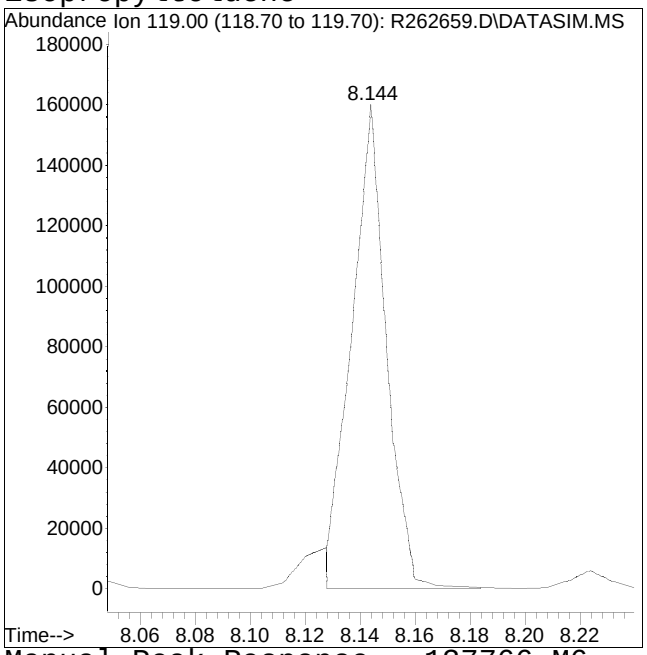
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262659.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 3:47 am Instrument : Airlab26
Sample : ITO15-LLSTD1.0 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 149622



Manual Peak Response = 137766 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\04\0402SIM_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:03:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.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\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.503	49	212543	10.000	ppbV		0.00
Standard Area = 212543			Recovery = 100.00%				
33) 1,4-difluorobenzene	4.368	114	923837	10.000	ppbV		0.00
Standard Area = 923837			Recovery = 100.00%				
51) chlorobenzene-D5	6.452	54	104535	10.000	ppbV	#	0.00
Standard Area = 104535			Recovery = 100.00%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	3.822	65	213537	7.206	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 72.06%				
53) toluene-D8	5.536	98	698879	12.514	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 125.14%				
67) bromofluorobenzene	7.210	95	460044	12.635	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 126.35%				
Target Compounds							Qvalue
2) propylene	2.004	41	55140	14.250	ppbV		89
3) dichlorodifluoromethane	2.026	85	222755	5.667	ppbV		100
4) chloromethane	2.076	50	62823M6	4.694	ppbV		
5) Freon-114	2.109	85	231651	4.370	ppbV		94
6) vinyl chloride	2.147	62	81148	4.557	ppbV		99
7) 1,3-butadiene	2.191	54	52842M3	5.094	ppbV		
8) bromomethane	2.273	94	83545	4.535	ppbV		99
9) chloroethane	2.328	64	44791	4.685	ppbV	#	83
10) ethanol	2.356	31	158919	17.782	ppbV		85
11) vinyl bromide	2.434	106	86620	4.592	ppbV		100
12) acrolein	2.468	56	33172M4	3.461	ppbV		
13) acetone	2.502	43	404227	15.641	ppbV	#	86
14) trichlorofluoromethane	2.553	101	200920	2.853	ppbV		100
15) isopropyl alcohol	2.564	45	228845	7.706	ppbV		98
16) acrylonitrile	2.626	53	54486M6	2.963	ppbV		
17) 1,1-dichloroethene	2.729	61	110539	2.596	ppbV	#	85
18) tertiary butyl alcohol	2.738	59	145733	2.781	ppbV	#	90
19) methylene chloride	2.757	49	68461M4	2.370	ppbV		
20) 3-chloropropene	2.796	41	65144	2.863	ppbV	#	83
21) carbon disulfide	2.848	76	216482	3.460	ppbV	#	87
22) Freon 113	2.848	101	174499	2.943	ppbV		91
23) trans-1,2-dichloroethene	3.060	61	99710	2.828	ppbV	#	83
24) 1,1-dichloroethane	3.131	63	132675	2.631	ppbV		99

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:03:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.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\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	200969	3.117	ppbV	#	32
26) vinyl acetate	3.193	43	134925M6	3.081	ppbV		
27) 2-butanone	3.281	43	166284	6.148	ppbV		93
28) cis-1,2-dichloroethene	3.443	61	113114	5.316	ppbV		90
29) Ethyl Acetate	3.555	61	28904M6	6.203	ppbV		
30) chloroform	3.563	83	187818	4.897	ppbV	#	97
31) Tetrahydrofuran	3.727	42	63589M6	6.351	ppbV		
32) 1,2-dichloroethane	3.863	62	106284	4.485	ppbV	#	95
34) hexane	3.540	57	115158	5.252	ppbV	#	66
36) 1,1,1-trichloroethane	3.985	97	194576	4.128	ppbV		92
37) benzene	4.180	78	291566	4.789	ppbV		96
38) carbon tetrachloride	4.255	117	192664	4.022	ppbV	#	97
39) cyclohexane	4.302	56	115537	5.295	ppbV	#	88
40) Dibromomethane	4.538	93	114119	4.021	ppbV	#	83
41) 1,2-dichloropropane	4.557	63	99960	4.565	ppbV	#	91
42) bromodichloromethane	4.651	83	191964	4.476	ppbV		100
43) 1,4-dioxane	4.689	88	64563	5.447	ppbV		96
44) trichloroethene	4.679	130	151889	4.799	ppbV		98
45) 2,2,4-trimethylpentane	4.717	57	365559M6	5.272	ppbV		
46) heptane	4.858	43	116848	5.335	ppbV		97
47) cis-1,3-dichloropropene	5.105	75	158604	4.941	ppbV	#	89
48) 4-methyl-2-pentanone	5.145	43	158577	5.038	ppbV	#	100
49) trans-1,3-dichloropropene	5.376	75	127595	4.960	ppbV	#	91
50) 1,1,2-trichloroethane	5.448	97	134676	4.734	ppbV	#	92
52) toluene	5.584	91	370563	6.477	ppbV		98
54) 2-hexanone	5.751	43	149955	6.550	ppbV	#	74
55) dibromochloromethane	5.783	129	210179	6.393	ppbV		100
56) 1,2-dibromoethane	5.895	107	207030	6.160	ppbV		100
57) tetrachloroethene	6.142	166	192727	6.269	ppbV	#	92
58) 1,1,1,2-tetrachloroethane	6.468	131	160476	6.032	ppbV	#	100
59) chlorobenzene	6.474	112	321746	6.253	ppbV		97
60) ethylbenzene	6.676	91	482052	6.554	ppbV		97
61) m+p-xylene	6.763	91	774016	12.930	ppbV		96
62) bromoform	6.763	173	199492	6.777	ppbV		100
63) styrene	6.937	104	307387	7.554	ppbV		97
64) 1,1,2,2-tetrachloroethane	6.983	83	278376	5.858	ppbV		100
65) o-xylene	6.989	91	370338	6.497	ppbV		95
66) 1,2,3-Trichloropropane	7.048	75	195588	5.814	ppbV	#	94
68) isopropylbenzene	7.298	105	542157	6.651	ppbV		96
69) Bromobenzene	7.309	77	225521M6	5.287	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:03:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.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\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

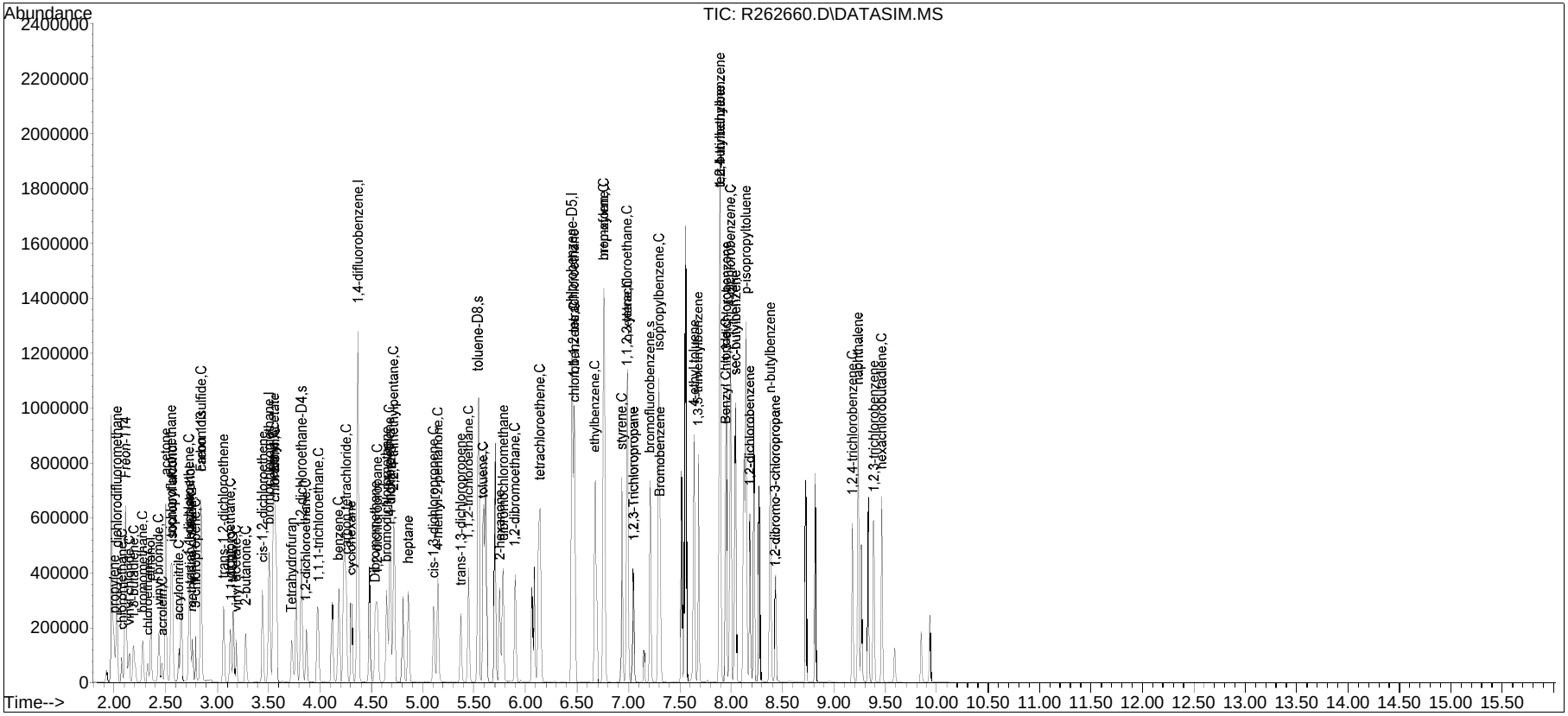
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	7.638	105	535952M4	7.979	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	435150	7.021	ppbV	#	46
72) tert-butylbenzene	7.893	119	497718	6.739	ppbV		99
73) 1,2,4-trimethylbenzene	7.893	105	463157	7.126	ppbV		96
74) Benzyl Chloride	7.949	91	362347	9.660	ppbV		95
75) 1,3-dichlorobenzene	7.957	146	353580M4	6.644	ppbV		
76) 1,4-dichlorobenzene	7.997	146	354473M6	6.402	ppbV		
77) sec-butylbenzene	8.045	105	665712	6.603	ppbV		97
78) p-isopropyltoluene	8.141	119	585529M6	6.338	ppbV		
79) 1,2-dichlorobenzene	8.181	146	342845	6.513	ppbV		96
80) n-butylbenzene	8.380	91	539099	6.573	ppbV		95
81) 1,2-dibromo-3-chloropr...	8.428	75	132728	5.820	ppbV	#	84
82) 1,2,4-trichlorobenzene	9.180	180	319802	7.014	ppbV		98
83) naphthalene	9.233	128	748751	7.471	ppbV		98
84) 1,2,3-trichlorobenzene	9.391	180	369412	7.786	ppbV		98
85) hexachlorobutadiene	9.461	225	258605	6.800	ppbV	#	89

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262660.D
Acq On : 03 Apr 2025 04:21 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD5.0
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:03:53 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Mar 19 15:05:10 2025
Response via : Initial Calibration

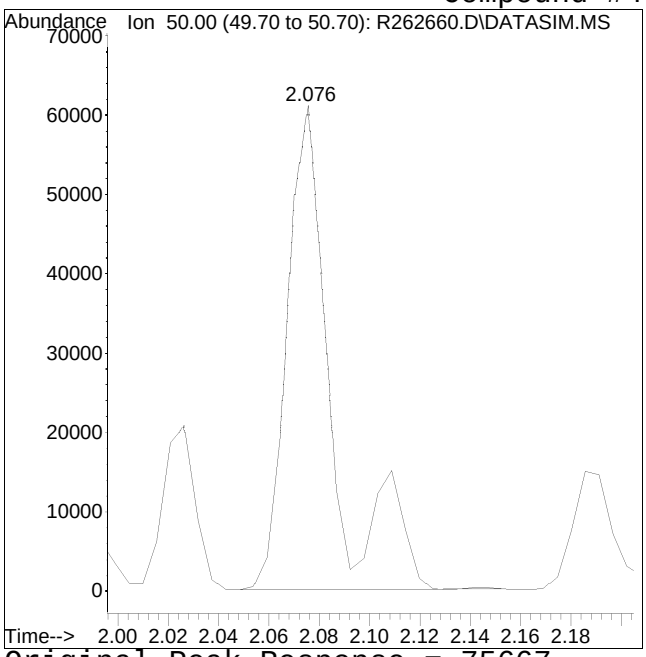


Manual Integration Report

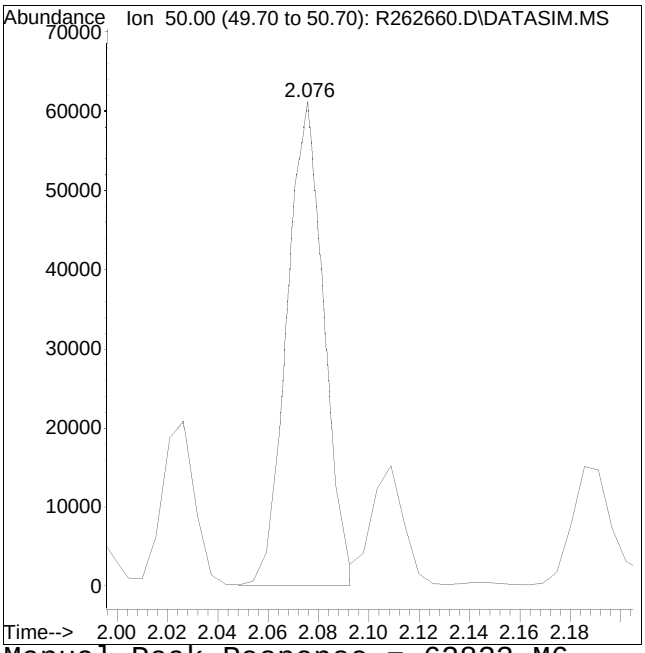
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262660.D
Date Inj'd : 4/3/2025 4:21 am
Sample : ITO15-LLSTD5.0

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:03 pm

Compound #4: chloromethane



Original Peak Response = 75667



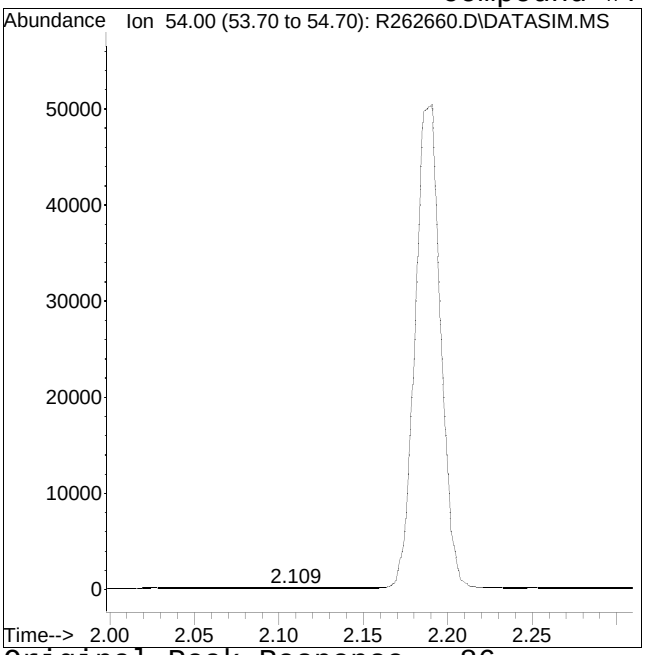
Manual Peak Response = 62823 M6

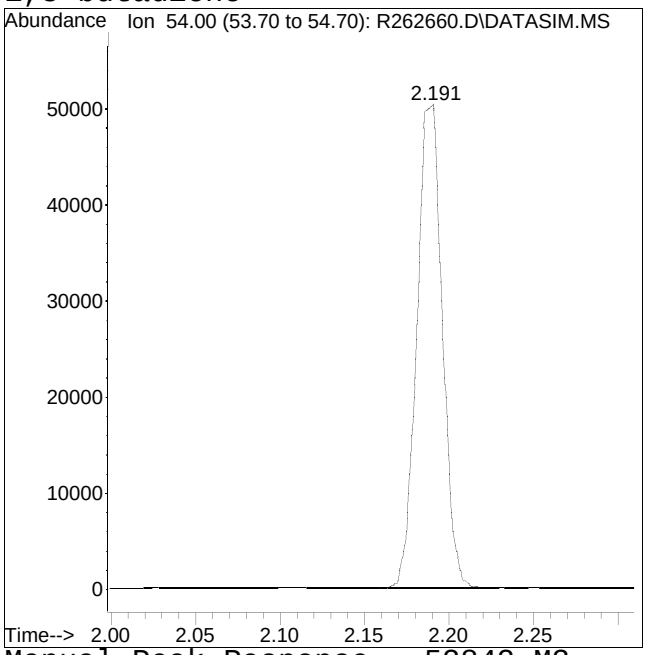
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #7: 1,3-butadiene



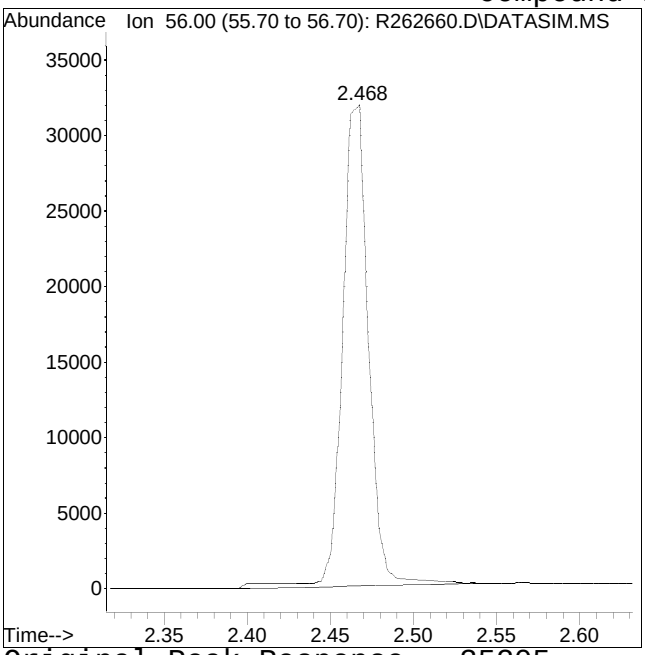


Original Peak Response = 86 Manual Peak Response = 52842 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

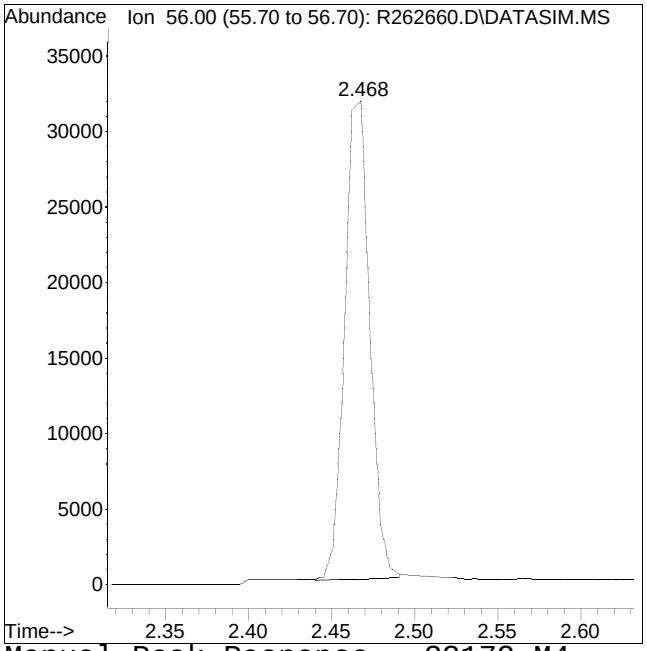
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #12: acrolein



Original Peak Response = 35205



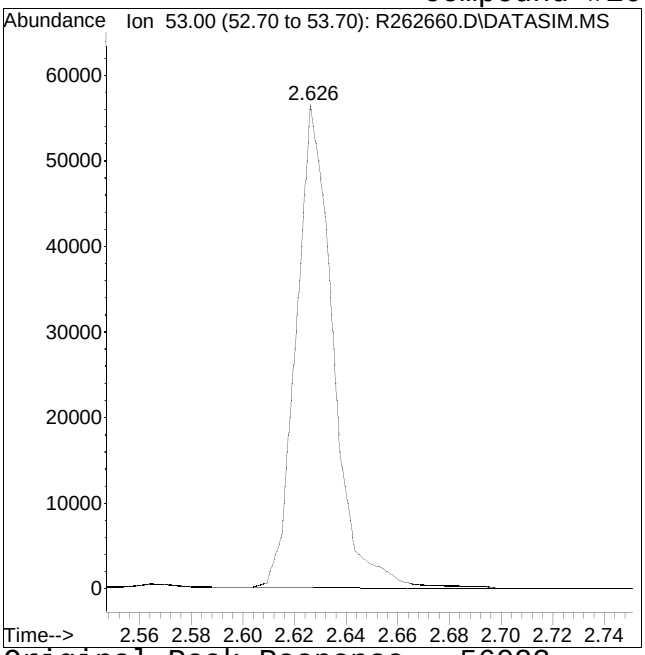
Manual Peak Response = 33172 M4

M4 = Poor automated baseline construction.

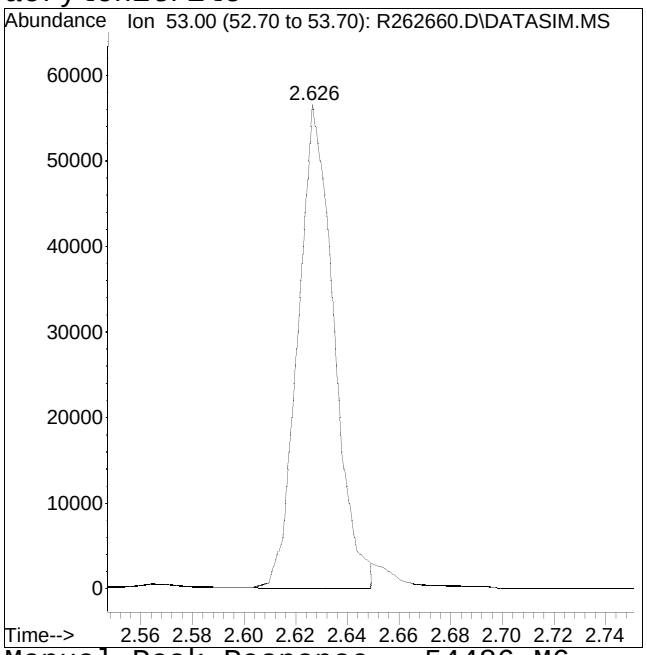
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #16: acrylonitrile



Original Peak Response = 56022



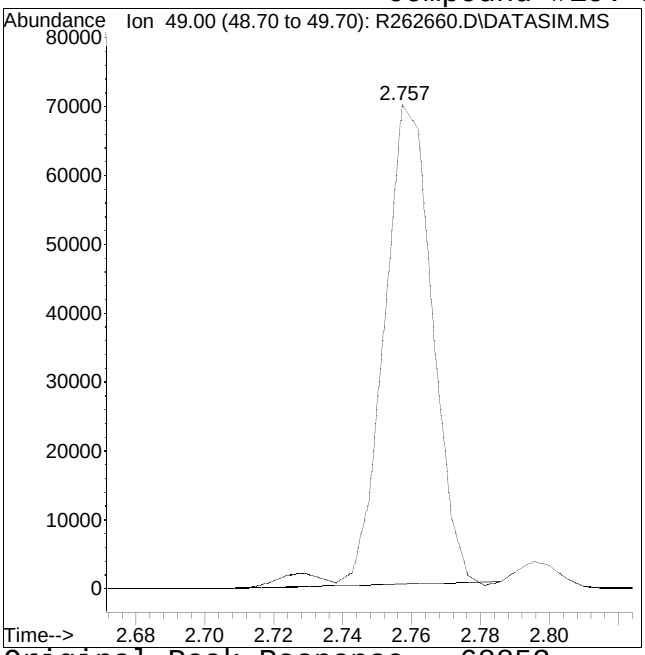
Manual Peak Response = 54486 M6

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

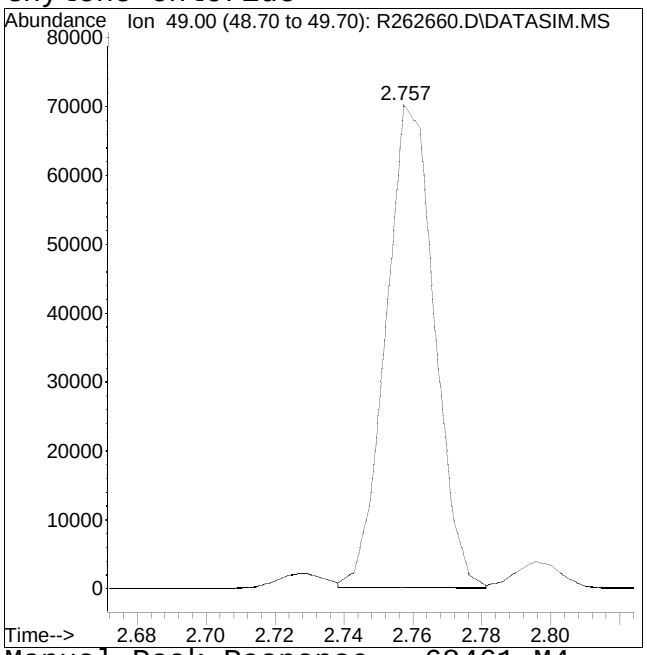
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #19: methylene chloride



Original Peak Response = 68853



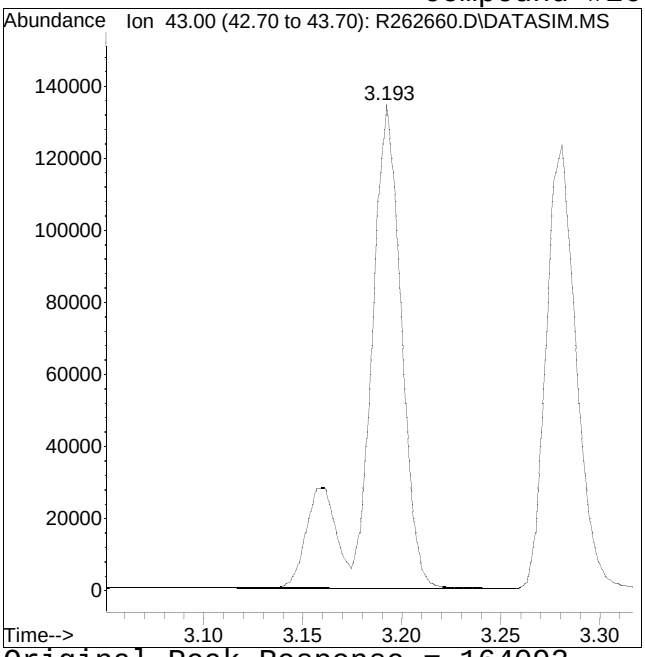
Manual Peak Response = 68461 M4

M4 = Poor automated baseline construction.

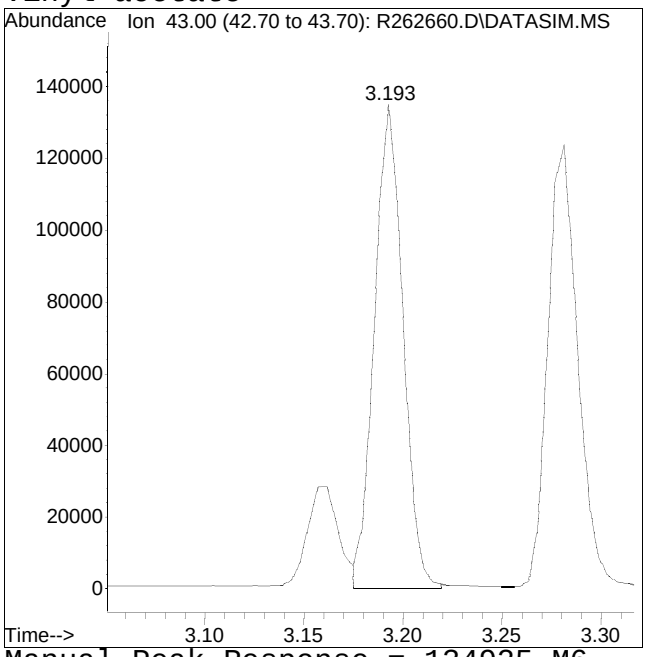
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #26: vinyl acetate



Original Peak Response = 164092



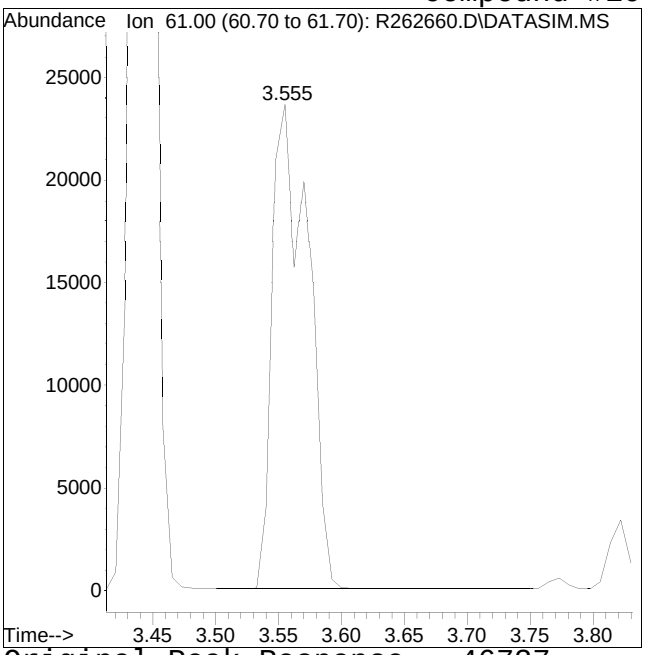
Manual Peak Response = 134925 M6

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

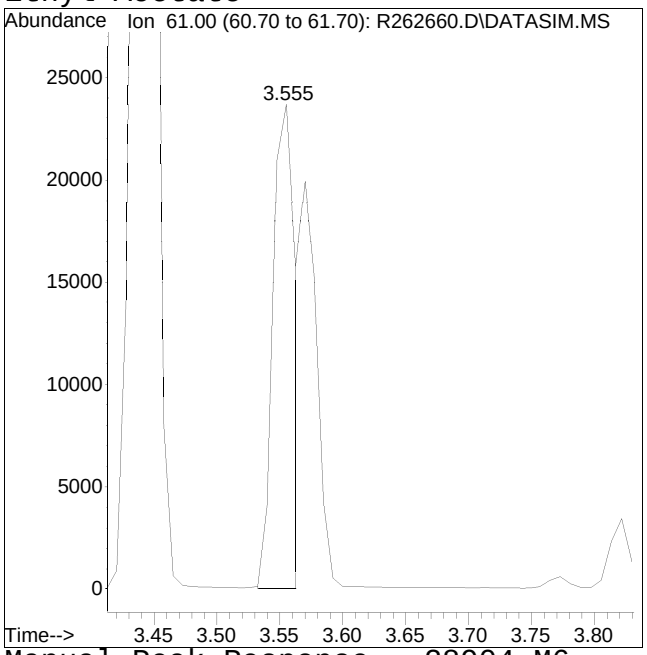
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #29: Ethyl Acetate



Original Peak Response = 46737



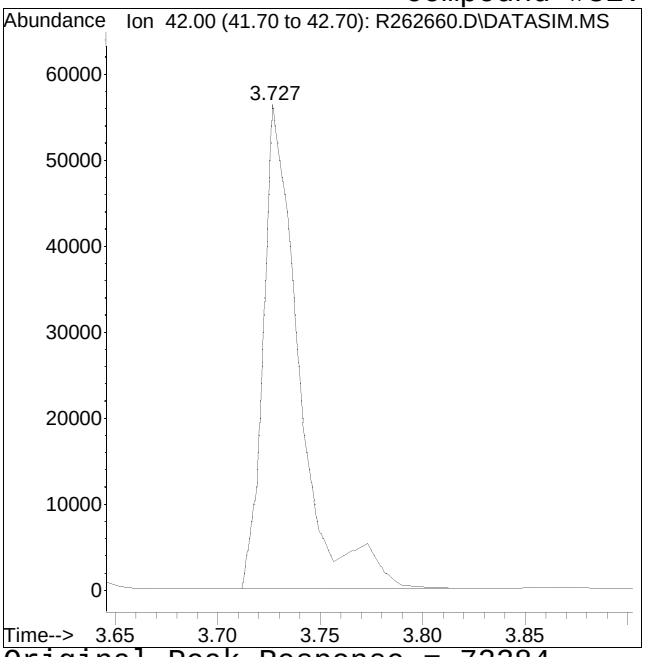
Manual Peak Response = 28904 M6

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

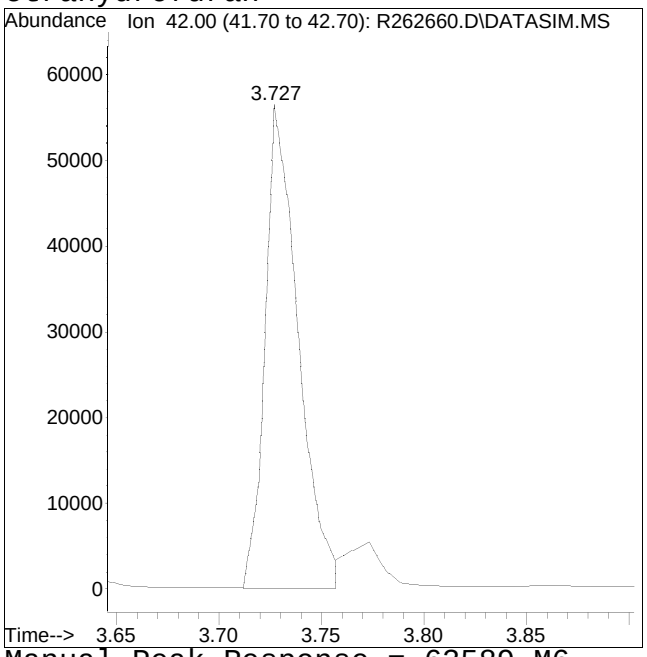
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 72384



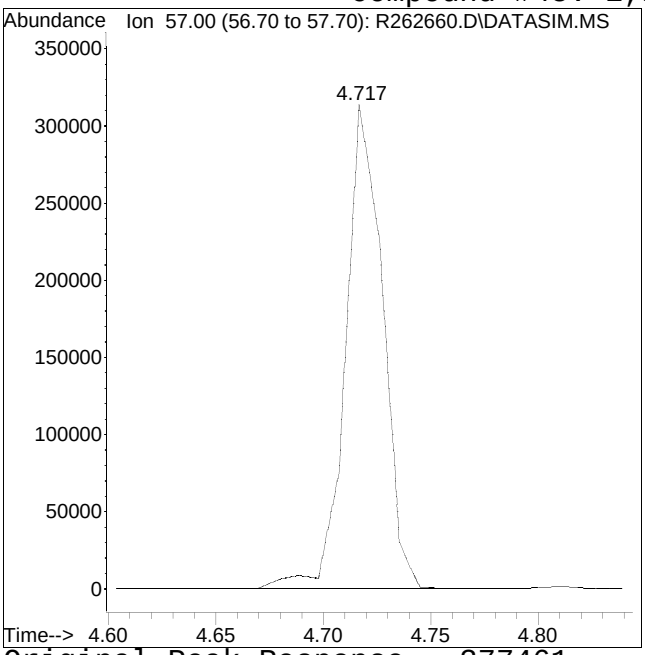
Manual Peak Response = 63589 M6

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

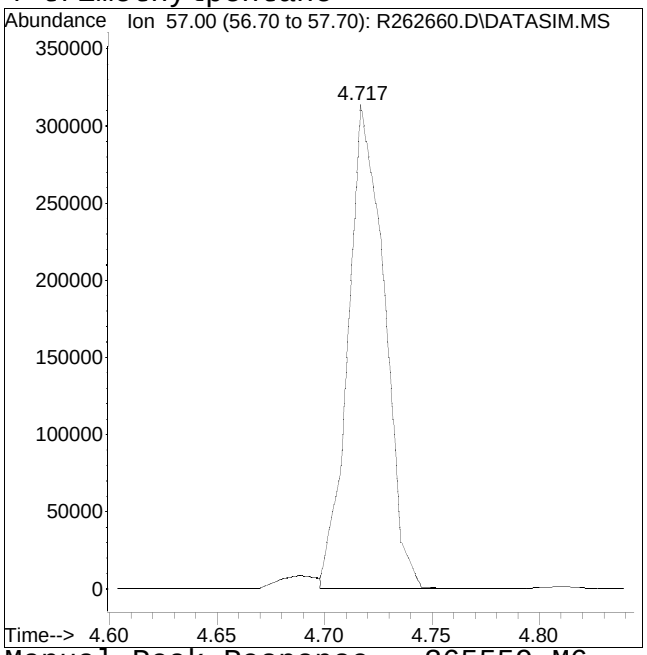
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 377461



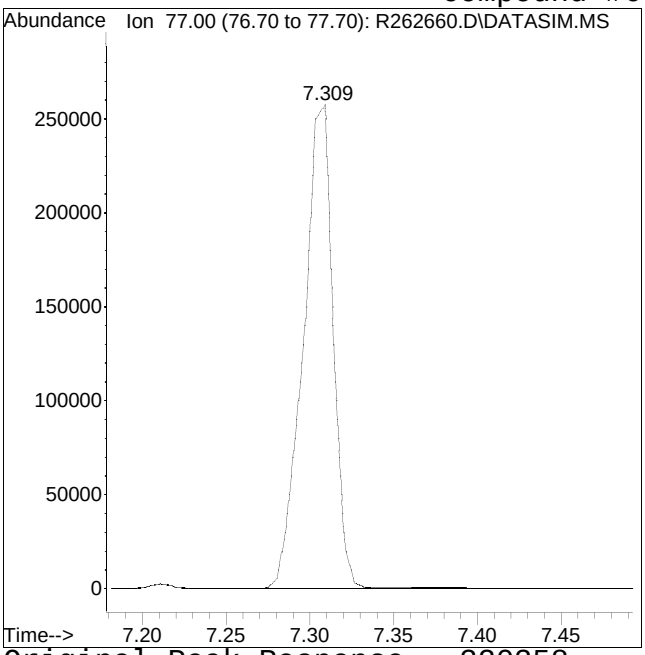
Manual Peak Response = 365559 M6

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

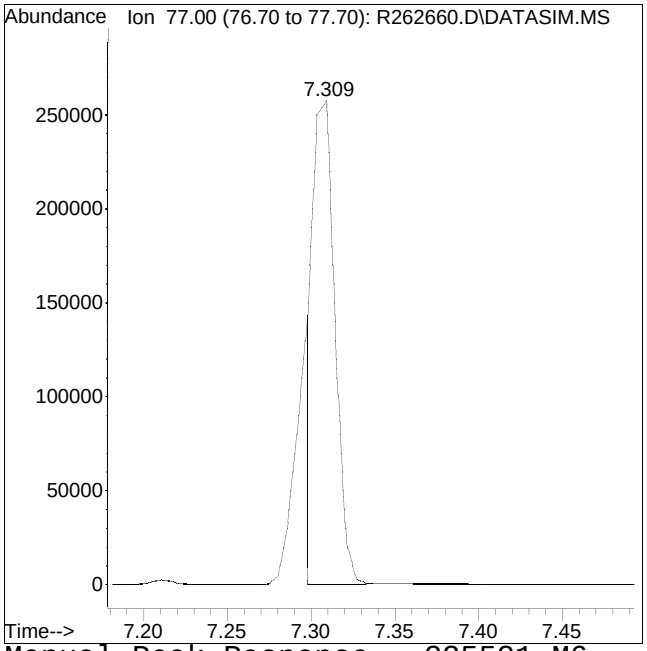
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #69: Bromobenzene



Original Peak Response = 320358



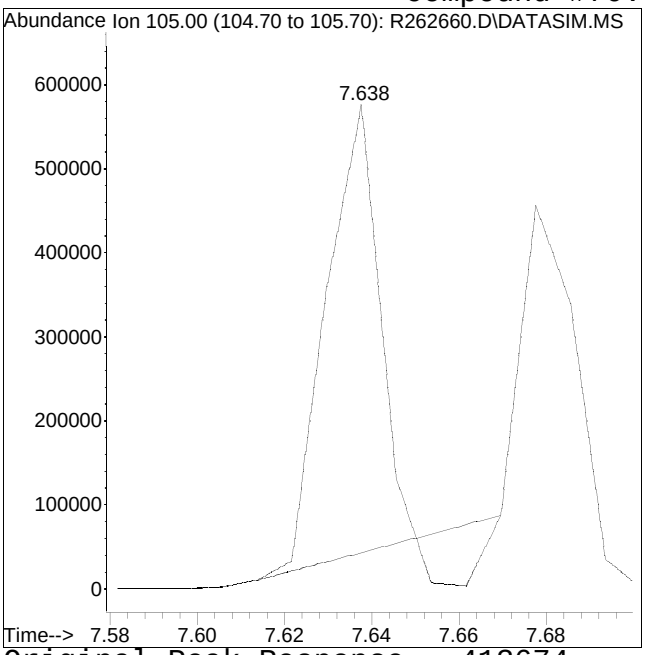
Manual Peak Response = 225521 M6

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

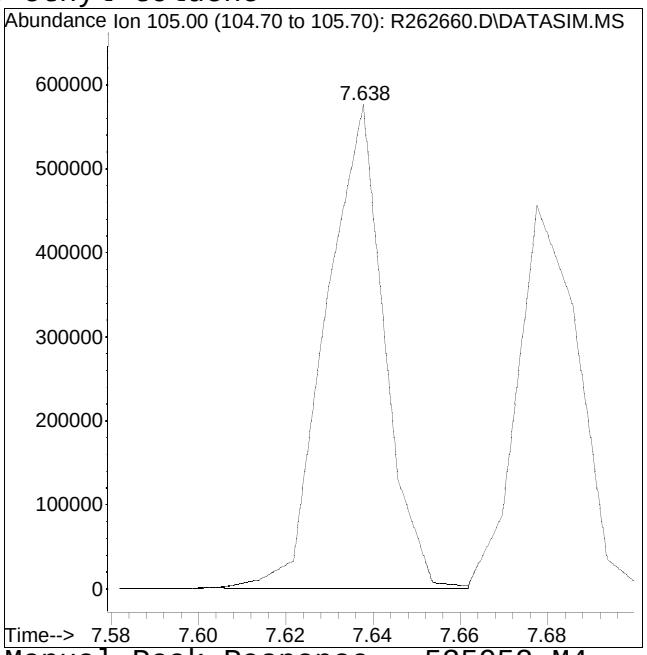
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 413674



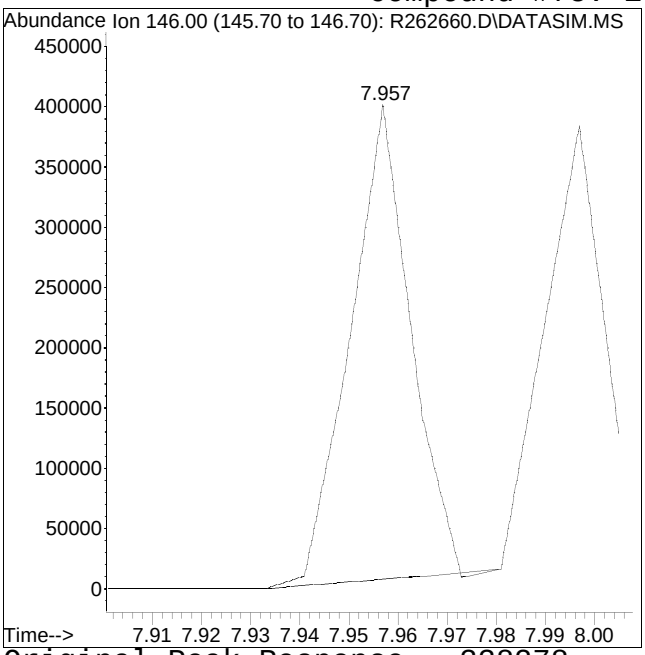
Manual Peak Response = 535952 M4

M4 = Poor automated baseline construction.

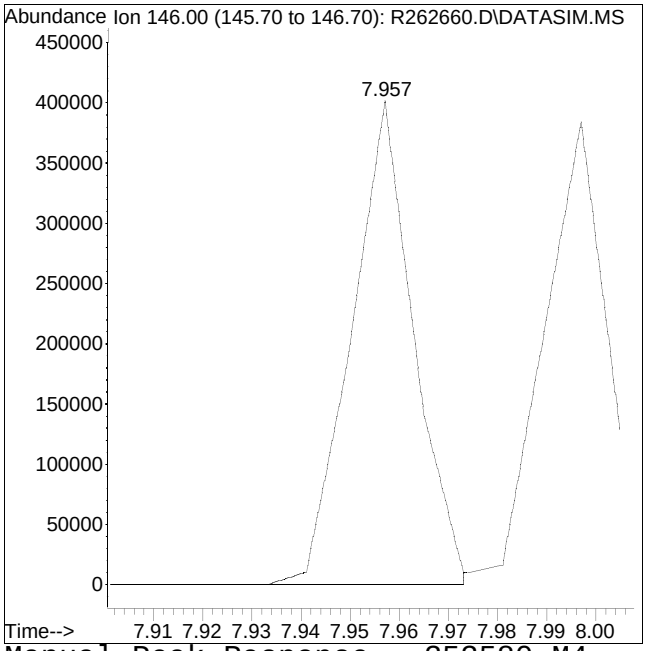
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 338278



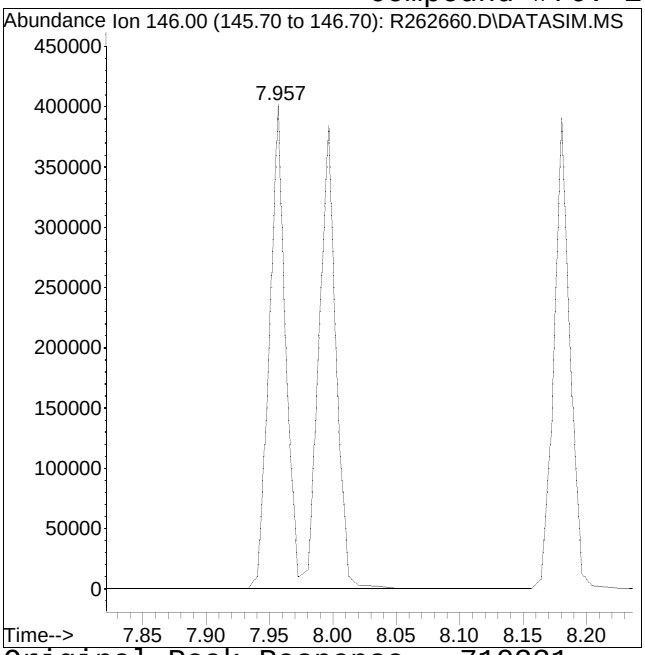
Manual Peak Response = 353580 M4

M4 = Poor automated baseline construction.

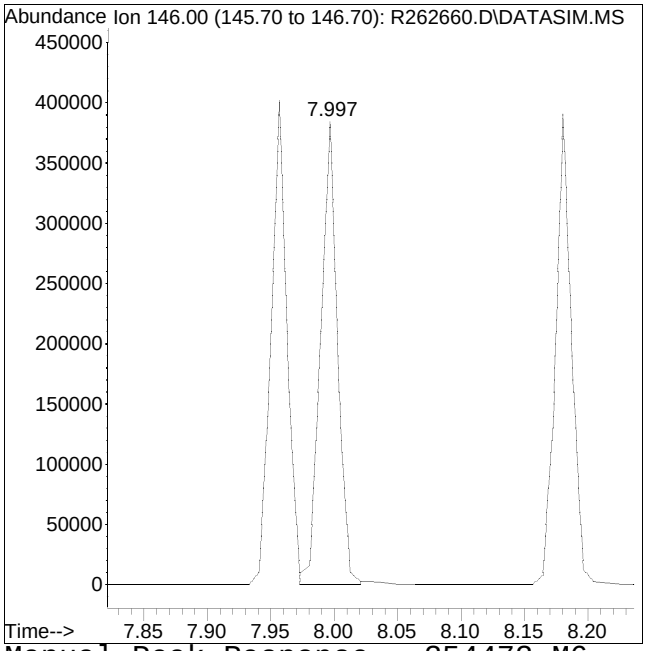
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 710331



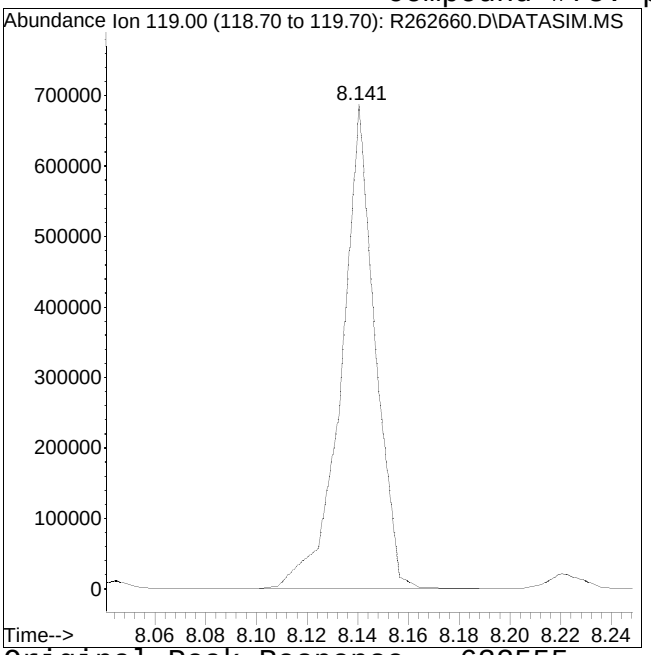
Manual Peak Response = 354473 M6

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

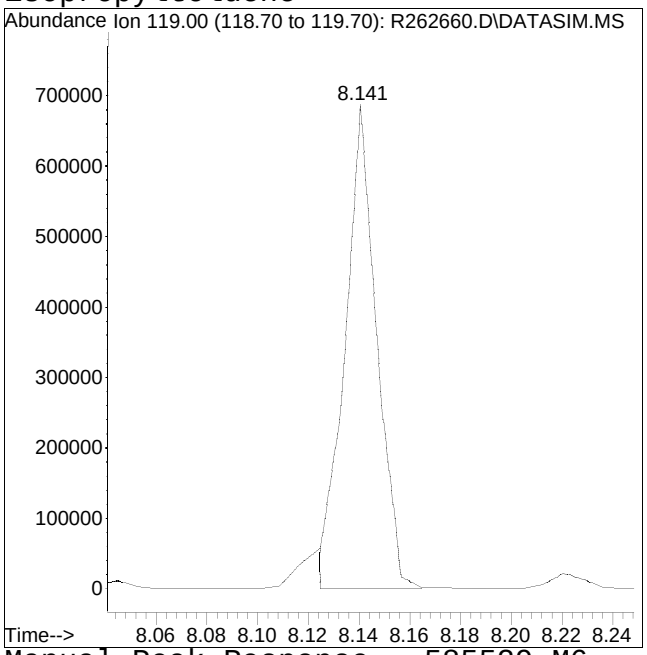
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262660.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:21 am Instrument : Airlab26
Sample : ITO15-LLSTD5.0 Quant Date : 4/3/2025 1:03 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 632555



Manual Peak Response = 585529 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\04\0402SIM_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:19:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	208710	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 98.20%			
33) 1,4-difluorobenzene	4.368	114	915077	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 99.05%			
51) chlorobenzene-D5	6.452	54	103248	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 98.77%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	215608	10.194	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.94%			
53) toluene-D8	5.544	98	692422	10.031	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
67) bromofluorobenzene	7.210	95	447173	9.841	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.41%			
Target Compounds						Qvalue
2) propylene	2.004	41	108533	10.022	ppbV	100
3) dichlorodifluoromethane	2.026	85	436646	9.981	ppbV	100
4) chloromethane	2.076	50	122792M6	9.952	ppbV	
5) Freon-114	2.109	85	454568	9.992	ppbV	100
6) vinyl chloride	2.147	62	160607	10.078	ppbV	100
7) 1,3-butadiene	2.191	54	104198	10.040	ppbV #	21
8) bromomethane	2.273	94	165663	10.097	ppbV	100
9) chloroethane	2.328	64	88357	10.044	ppbV	100
10) ethanol	2.356	31	299715	48.015	ppbV	99
11) vinyl bromide	2.434	106	172385	10.133	ppbV	100
12) acrolein	2.468	56	66865M1	10.264	ppbV	
13) acetone	2.502	43	795726	50.117	ppbV	100
14) trichlorofluoromethane	2.553	101	398071	10.088	ppbV	100
15) isopropyl alcohol	2.564	45	424813	23.630	ppbV	100
16) acrylonitrile	2.626	53	111981	10.465	ppbV	97
17) 1,1-dichloroethene	2.729	61	219741	10.122	ppbV	100
18) tertiary butyl alcohol	2.738	59	256973	8.978	ppbV	98
19) methylene chloride	2.762	49	135451M4	10.074	ppbV	
20) 3-chloropropene	2.796	41	129908	10.154	ppbV	100
21) carbon disulfide	2.848	76	430782	10.132	ppbV	100
22) Freon 113	2.848	101	345460	10.080	ppbV	99
23) trans-1,2-dichloroethene	3.060	61	199468	10.186	ppbV	100
24) 1,1-dichloroethane	3.131	63	264495	10.151	ppbV	100

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:19:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	400922	10.158	ppbV		98
26) vinyl acetate	3.193	43	276685M6	10.442	ppbV		
27) 2-butanone	3.281	43	324232	9.928	ppbV		97
28) cis-1,2-dichloroethene	3.443	61	226718	10.206	ppbV		100
29) Ethyl Acetate	3.555	61	56652M6	9.980	ppbV		
30) chloroform	3.563	83	374321	10.148	ppbV		100
31) Tetrahydrofuran	3.727	42	146014	11.692	ppbV		89
32) 1,2-dichloroethane	3.871	62	212657	10.188	ppbV	#	95
34) hexane	3.548	57	229033	10.039	ppbV		100
36) 1,1,1-trichloroethane	3.985	97	395389	10.258	ppbV		99
37) benzene	4.180	78	588198	10.183	ppbV		100
38) carbon tetrachloride	4.255	117	389590	10.207	ppbV		100
39) cyclohexane	4.302	56	235855	10.305	ppbV		99
40) Dibromomethane	4.538	93	227854	10.079	ppbV	#	99
41) 1,2-dichloropropane	4.566	63	198605	10.029	ppbV		100
42) bromodichloromethane	4.651	83	394448	10.372	ppbV		100
43) 1,4-dioxane	4.689	88	130790	10.226	ppbV		96
44) trichloroethene	4.679	130	306924	10.200	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	737940	10.190	ppbV		99
46) heptane	4.858	43	233719	10.097	ppbV		100
47) cis-1,3-dichloropropene	5.105	75	327564	10.425	ppbV		99
48) 4-methyl-2-pentanone	5.145	43	317440	10.105	ppbV	#	52
49) trans-1,3-dichloropropene	5.376	75	260885	10.321	ppbV		100
50) 1,1,2-trichloroethane	5.448	97	271349	10.171	ppbV		99
52) toluene	5.592	91	739770	10.106	ppbV		100
54) 2-hexanone	5.743	43	306265	10.339	ppbV		99
55) dibromochloromethane	5.783	129	435773	10.496	ppbV		100
56) 1,2-dibromoethane	5.895	107	419444	10.256	ppbV		100
57) tetrachloroethene	6.142	166	379784	9.976	ppbV		100
58) 1,1,1,2-tetrachloroethane	6.468	131	322266	10.166	ppbV	#	100
59) chlorobenzene	6.474	112	639170	10.057	ppbV		100
60) ethylbenzene	6.676	91	964630	10.130	ppbV		99
61) m+p-xylene	6.763	91	1525606	19.956	ppbV		100
62) bromoform	6.763	173	411816	10.450	ppbV		100
63) styrene	6.937	104	622027	10.244	ppbV		100
64) 1,1,2,2-tetrachloroethane	6.983	83	556274	10.116	ppbV		100
65) o-xylene	6.989	91	740493	10.122	ppbV		100
66) 1,2,3-Trichloropropane	7.048	75	389964	10.093	ppbV		100
68) isopropylbenzene	7.298	105	1087123	10.151	ppbV		97
69) Bromobenzene	7.309	77	443980M6	9.966	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Apr 03 13:19:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

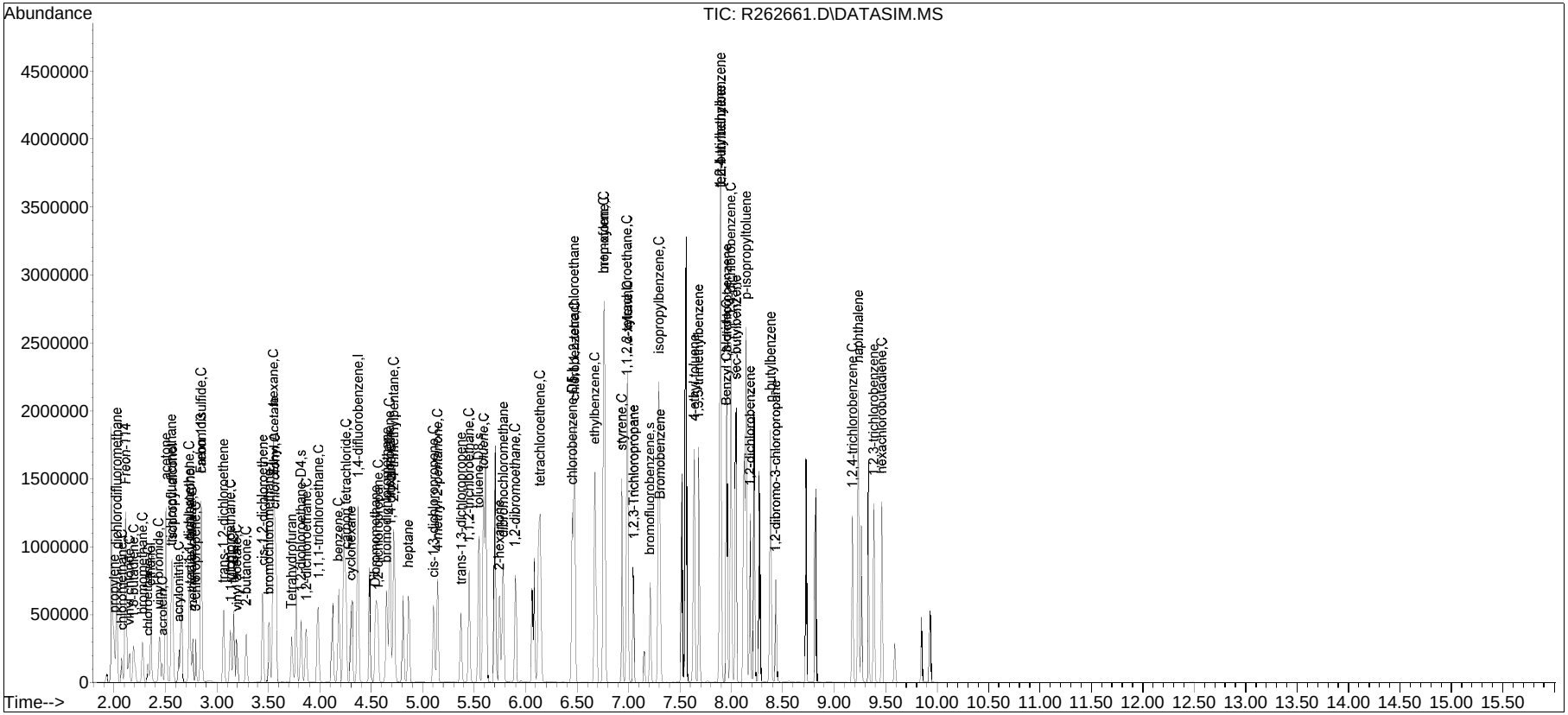
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.638	105	1053159M6	9.948	ppbV	
71) 1,3,5-trimethylbenzene	7.678	105	864043	10.052	ppbV	99
72) tert-butylbenzene	7.893	119	1000613	10.177	ppbV	99
73) 1,2,4-trimethylbenzene	7.893	105	914384	9.994	ppbV	99
74) Benzyl Chloride	7.949	91	766573	10.710	ppbV	100
75) 1,3-dichlorobenzene	7.957	146	714414M6	10.229	ppbV	
76) 1,4-dichlorobenzene	7.997	146	719959M6	10.282	ppbV	
77) sec-butylbenzene	8.045	105	1336202	10.161	ppbV	100
78) p-isopropyltoluene	8.141	119	1166527M6	10.085	ppbV	
79) 1,2-dichlorobenzene	8.181	146	703032	10.381	ppbV	100
80) n-butylbenzene	8.380	91	1064539	9.996	ppbV	99
81) 1,2-dibromo-3-chloropr...	8.428	75	272961	10.411	ppbV	98
82) 1,2,4-trichlorobenzene	9.180	180	671154	10.624	ppbV	100
83) naphthalene	9.233	128	1558381	10.536	ppbV	99
84) 1,2,3-trichlorobenzene	9.385	180	726894	9.961	ppbV	99
85) hexachlorobutadiene	9.461	225	512874	10.040	ppbV	100

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262661.D
Acq On : 03 Apr 2025 04:57 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD010
Misc : WG2049330
ALS Vial : 7 Sample Multiplier: 1

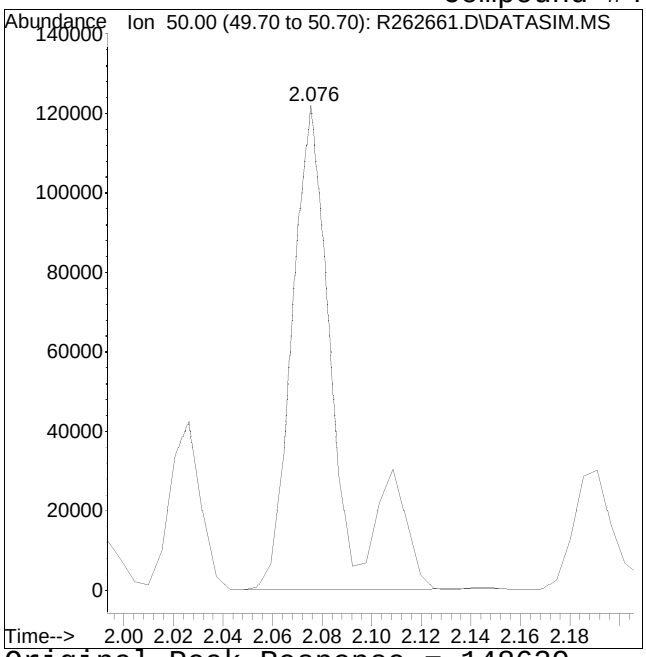
Quant Time: Apr 03 13:19:44 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration



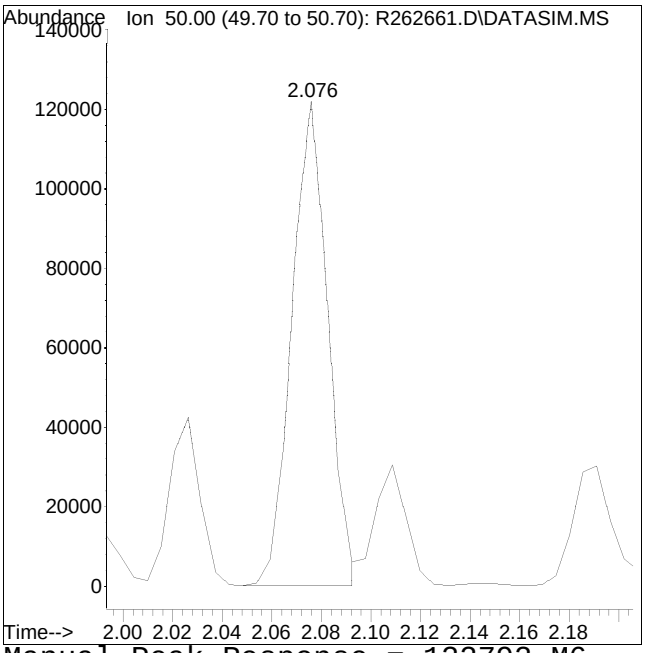
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 148629



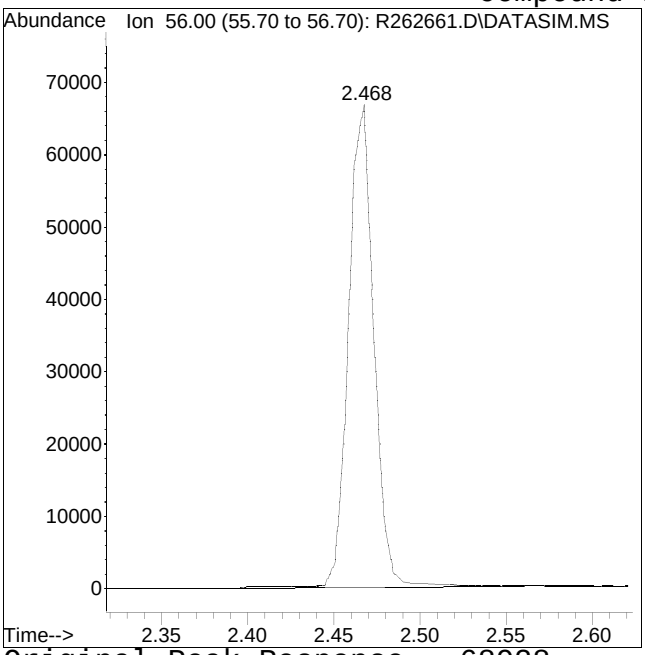
Manual Peak Response = 122792 M6

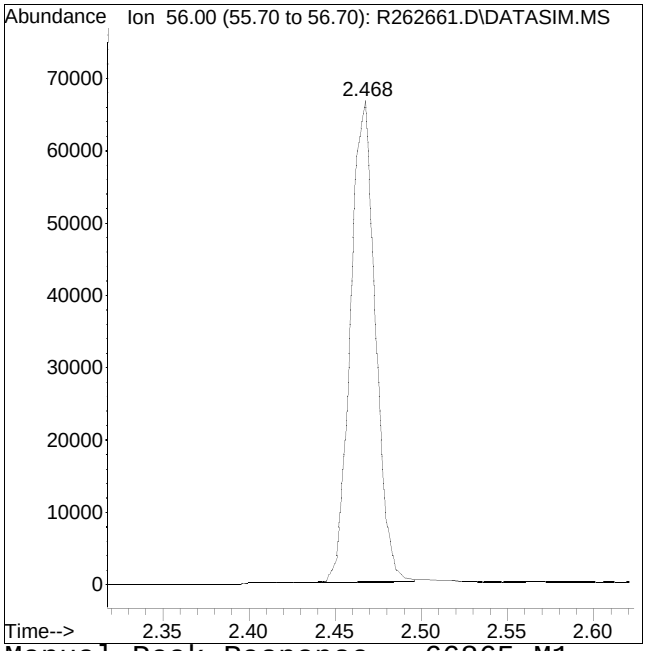
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #12: acrolein



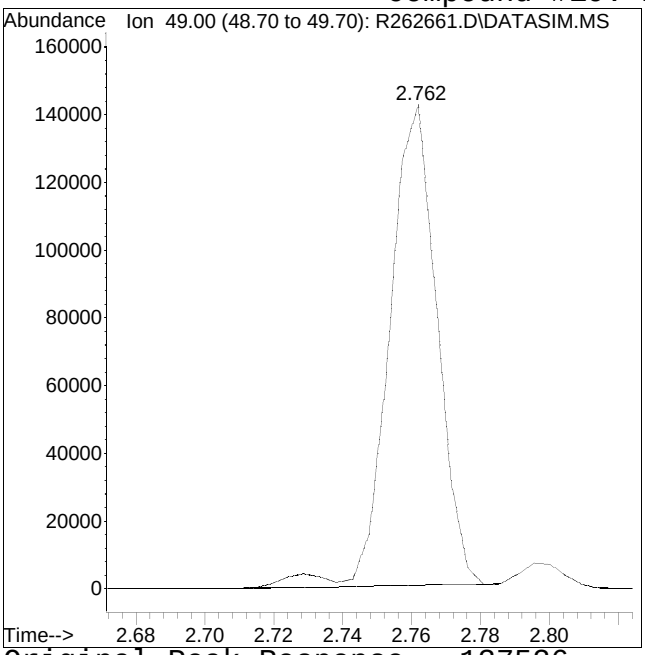


Original Peak Response = 68928 Manual Peak Response = 66865 M1
M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

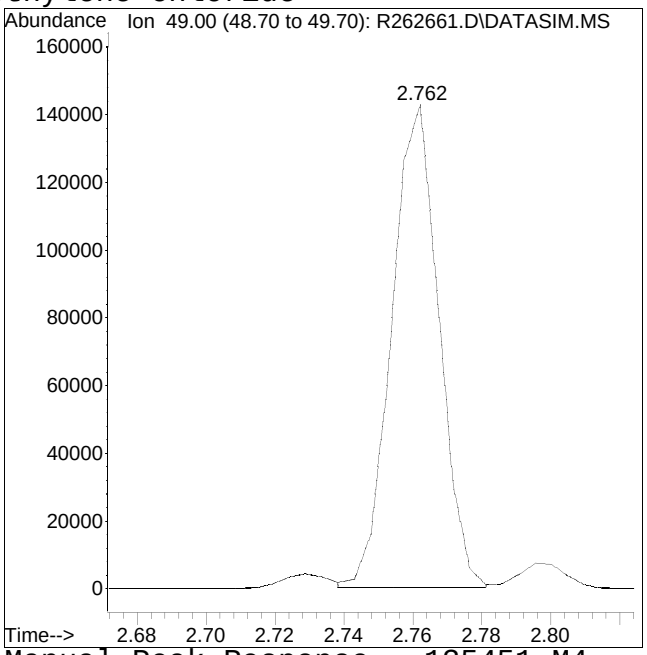
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 137526



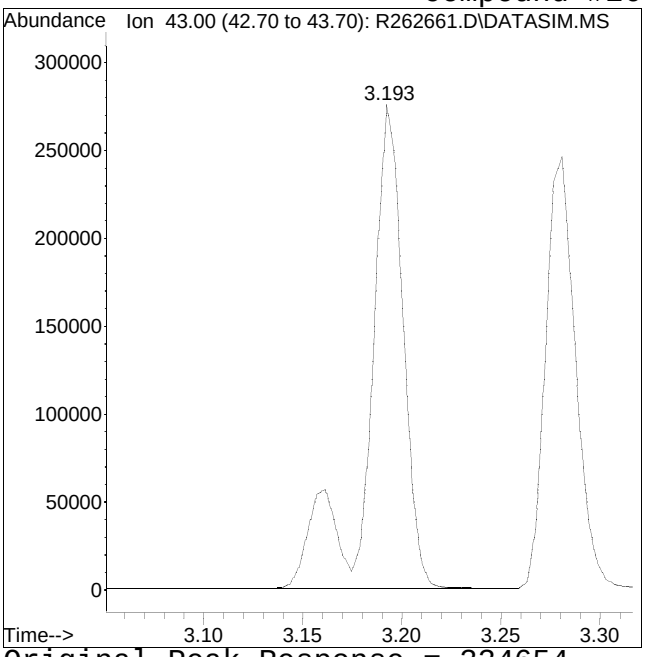
Manual Peak Response = 135451 M4

M4 = Poor automated baseline construction.

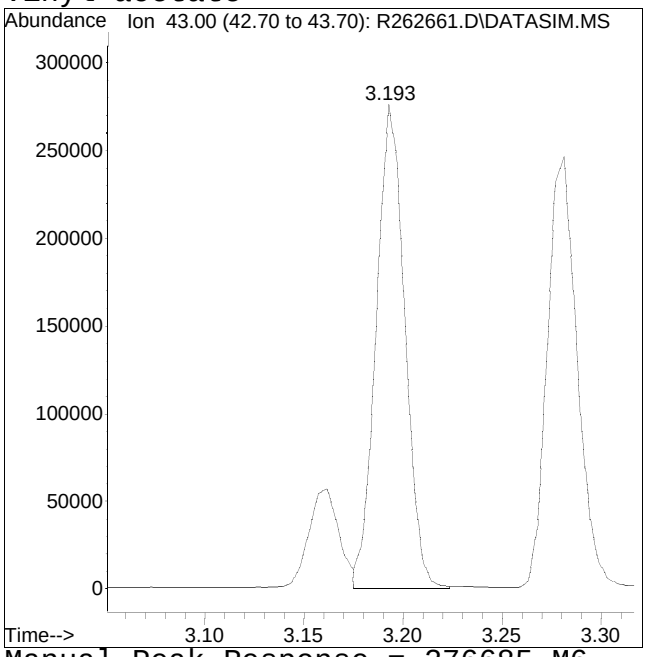
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 334654



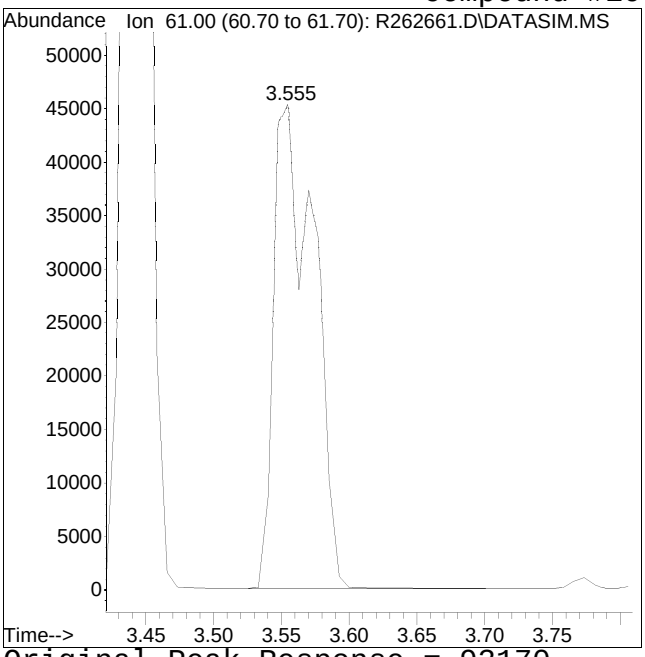
Manual Peak Response = 276685 M6

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

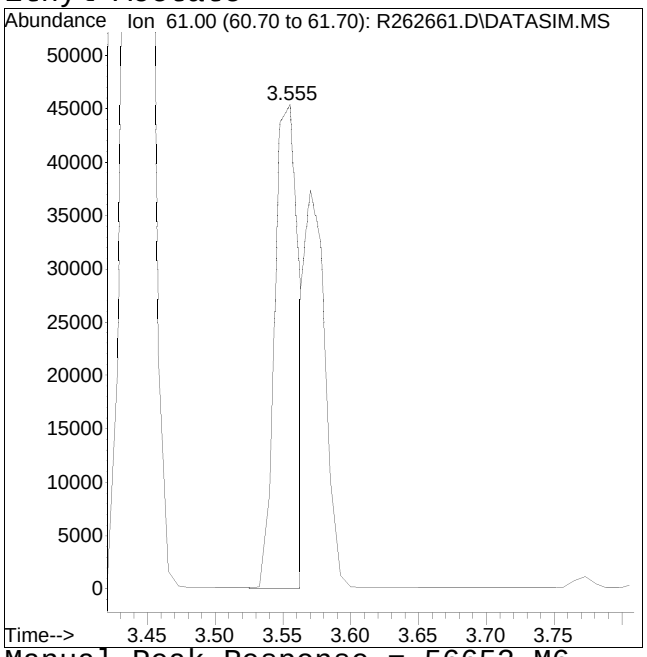
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 93170



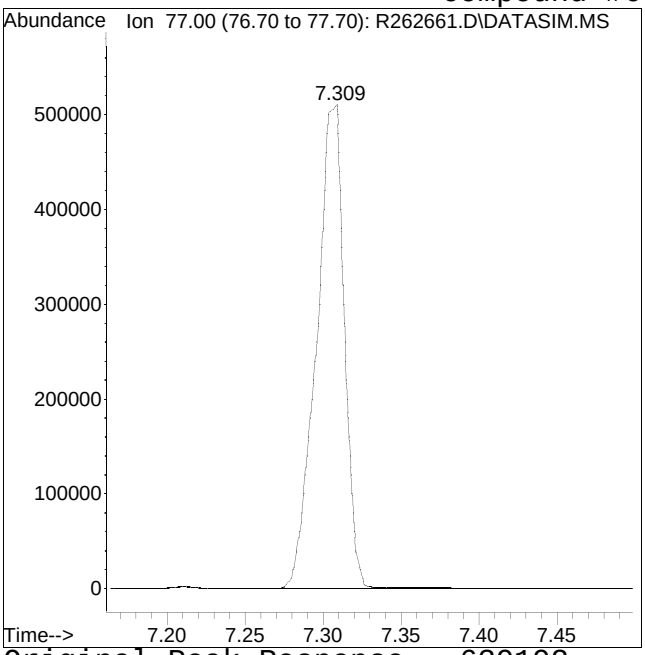
Manual Peak Response = 56652 M6

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

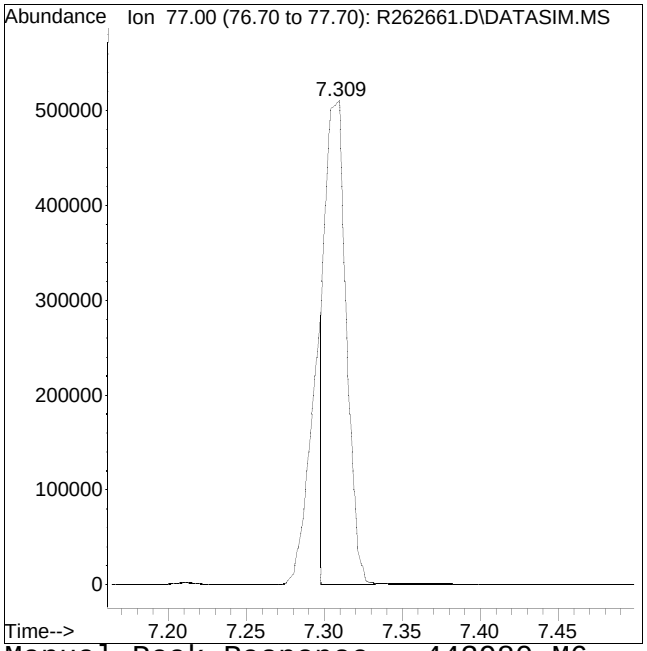
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 639192



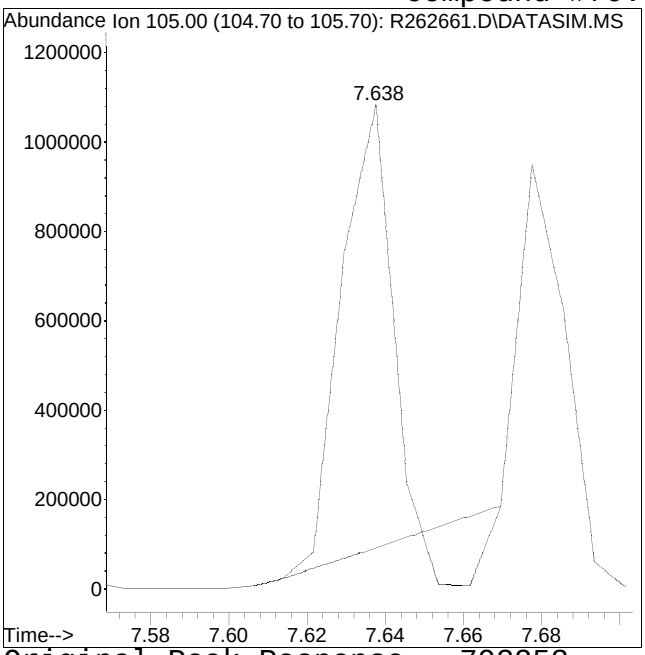
Manual Peak Response = 443980 M6

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

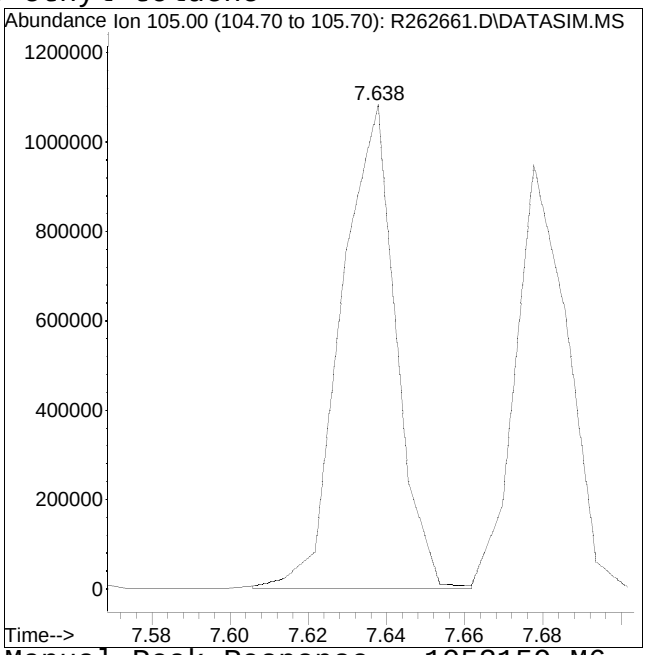
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 792253



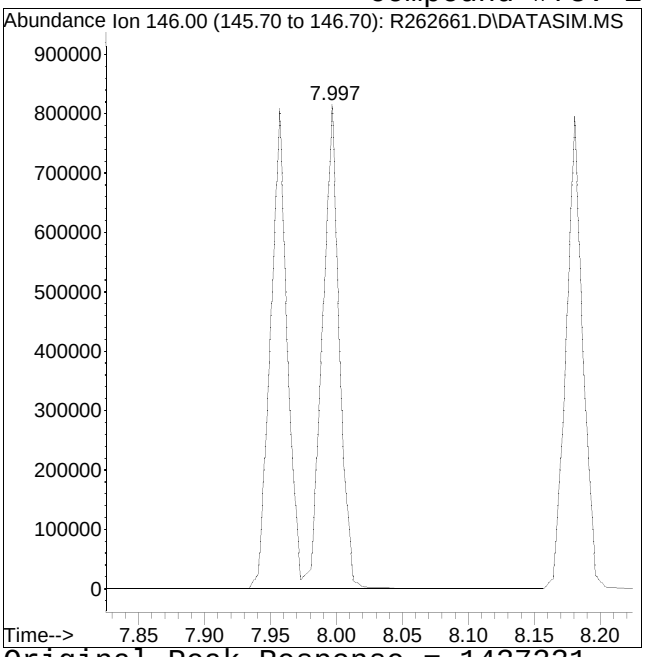
Manual Peak Response = 1053159 M6

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

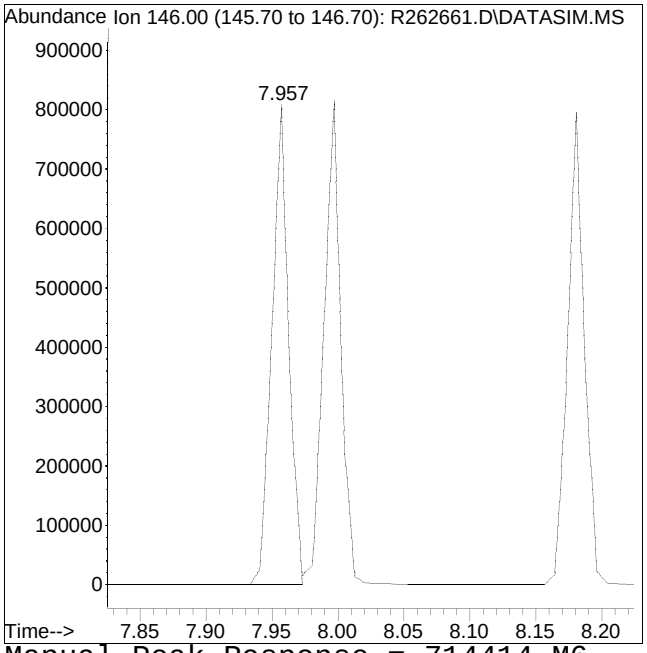
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 1437331



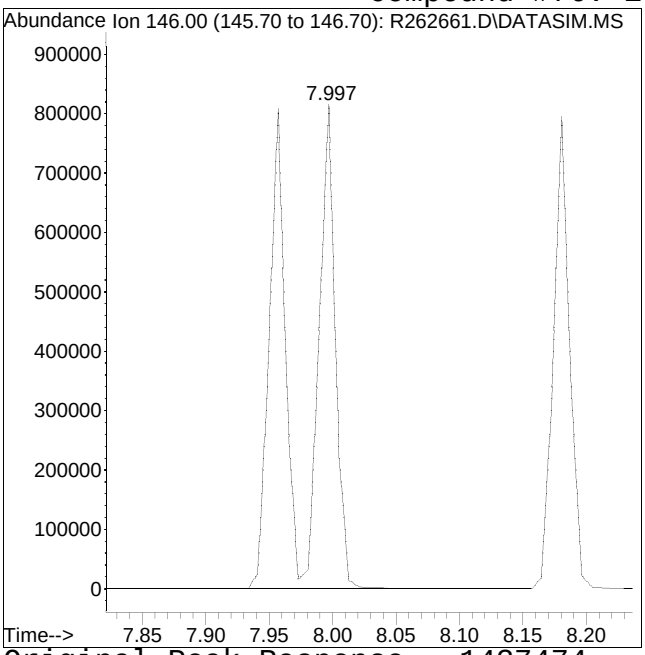
Manual Peak Response = 714414 M6

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

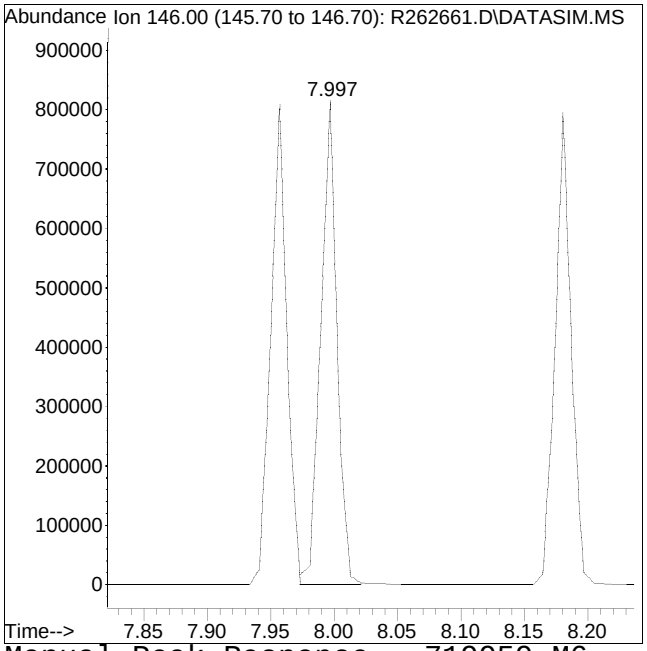
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1437474



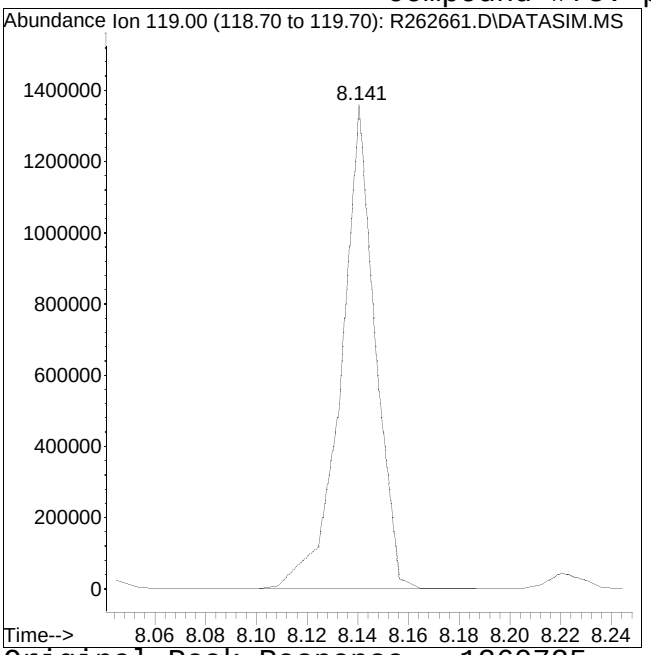
Manual Peak Response = 719959 M6

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

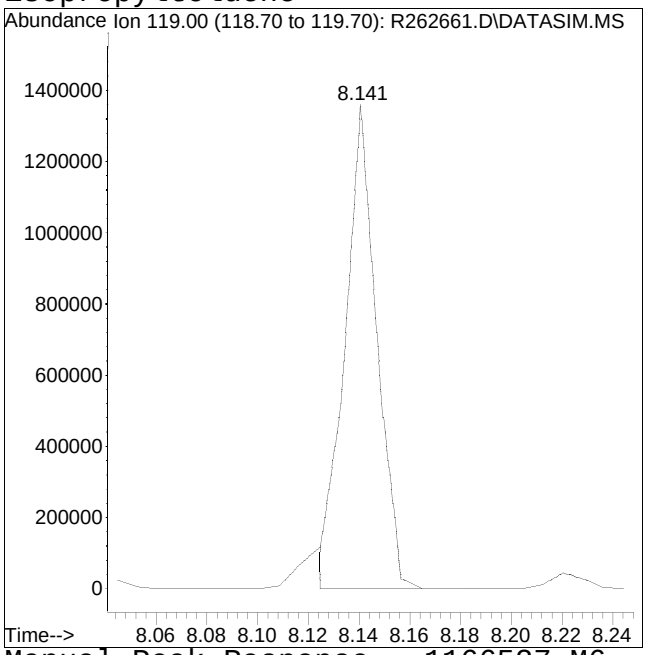
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262661.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:57 am Instrument : Airlab26
Sample : ITO15-LLSTD010 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 1260725



Manual Peak Response = 1166527 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\04\0402SIM_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.503	49	208659	10.000	ppbV		0.00
Standard Area = 212543			Recovery = 98.17%				
33) 1,4-difluorobenzene	4.368	114	918499	10.000	ppbV		0.00
Standard Area = 923837			Recovery = 99.42%				
51) chlorobenzene-D5	6.452	54	103453	10.000	ppbV	#	0.00
Standard Area = 104535			Recovery = 98.96%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	3.822	65	223802	10.542	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.42%				
53) toluene-D8	5.544	98	690649	9.986	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.86%				
67) bromofluorobenzene	7.211	95	449683	9.877	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.77%				
Target Compounds							Qvalue
2) propylene	2.004	41	211181	19.506	ppbV		100
3) dichlorodifluoromethane	2.026	85	846585	19.356	ppbV		100
4) chloromethane	2.076	50	243171M6	19.714	ppbV		
5) Freon-114	2.109	85	879399	19.334	ppbV		99
6) vinyl chloride	2.147	62	313967	19.705	ppbV		100
7) 1,3-butadiene	2.191	54	203834	19.646	ppbV	#	22
8) bromomethane	2.274	94	326885	19.928	ppbV		99
9) chloroethane	2.328	64	174122	19.799	ppbV		100
10) ethanol	2.361	31	613635	98.330	ppbV		99
11) vinyl bromide	2.440	106	337181	19.826	ppbV		100
12) acrolein	2.468	56	135082	20.740	ppbV	#	92
13) acetone	2.502	43	1536944	96.824	ppbV		99
14) trichlorofluoromethane	2.558	101	776449	19.682	ppbV		100
15) isopropyl alcohol	2.570	45	920289	51.204	ppbV		100
16) acrylonitrile	2.632	53	212540M6	19.867	ppbV		
17) 1,1-dichloroethene	2.734	61	428554	19.746	ppbV		100
18) tertiary butyl alcohol	2.738	59	594581	20.779	ppbV		100
19) methylene chloride	2.762	49	264657M6	19.689	ppbV		
20) 3-chloropropene	2.800	41	251669	19.676	ppbV		99
21) carbon disulfide	2.853	76	828231	19.485	ppbV		100
22) Freon 113	2.848	101	673493	19.657	ppbV		99
23) trans-1,2-dichloroethene	3.064	61	389192	19.879	ppbV		99
24) 1,1-dichloroethane	3.135	63	519125	19.928	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.162	73	781182	19.797	ppbV		96
26) vinyl acetate	3.197	43	562524M6	21.234	ppbV		
27) 2-butanone	3.281	43	632754	19.380	ppbV		98
28) cis-1,2-dichloroethene	3.443	61	444546	20.016	ppbV		100
29) Ethyl Acetate	3.555	61	106199M6	18.713	ppbV		
30) chloroform	3.570	83	732991	19.877	ppbV		100
31) Tetrahydrofuran	3.727	42	253159M6	20.276	ppbV		
32) 1,2-dichloroethane	3.871	62	416065	19.938	ppbV	#	92
34) hexane	3.548	57	445631	19.461	ppbV		99
36) 1,1,1-trichloroethane	3.985	97	767713	19.842	ppbV		100
37) benzene	4.180	78	1149627	19.829	ppbV		100
38) carbon tetrachloride	4.255	117	765377	19.978	ppbV		99
39) cyclohexane	4.312	56	463797	20.188	ppbV		97
40) Dibromomethane	4.547	93	448853	19.780	ppbV	#	99
41) 1,2-dichloropropane	4.566	63	390769	19.660	ppbV		100
42) bromodichloromethane	4.651	83	767215	20.099	ppbV		100
43) 1,4-dioxane	4.689	88	266542	20.762	ppbV		96
44) trichloroethene	4.689	130	588217	19.476	ppbV		100
45) 2,2,4-trimethylpentane	4.726	57	1383469M6	19.033	ppbV		
46) heptane	4.858	43	455861	19.620	ppbV		99
47) cis-1,3-dichloropropene	5.105	75	636607	20.186	ppbV		99
48) 4-methyl-2-pentanone	5.145	43	605203	19.193	ppbV		99
49) trans-1,3-dichloropropene	5.376	75	519063	20.458	ppbV		99
50) 1,1,2-trichloroethane	5.448	97	526898	19.675	ppbV		99
52) toluene	5.592	91	1440406	19.639	ppbV		99
54) 2-hexanone	5.743	43	589850	19.873	ppbV		98
55) dibromochloromethane	5.783	129	841917	20.238	ppbV		100
56) 1,2-dibromoethane	5.895	107	812765	19.834	ppbV		100
57) tetrachloroethene	6.142	166	741256	19.432	ppbV		100
58) 1,1,1,2-tetrachloroethane	6.468	131	643549	20.261	ppbV	#	100
59) chlorobenzene	6.474	112	1235216	19.396	ppbV		99
60) ethylbenzene	6.676	91	1877504	19.678	ppbV		99
61) m+p-xylene	6.769	91	2896952	37.819	ppbV		98
62) bromoform	6.763	173	815356	20.650	ppbV		100
63) styrene	6.937	104	1209823	19.885	ppbV		100
64) 1,1,2,2-tetrachloroethane	6.984	83	1089805	19.779	ppbV		99
65) o-xylene	6.989	91	1427535	19.475	ppbV		99
66) 1,2,3-Trichloropropane	7.048	75	771933	19.940	ppbV		100
68) isopropylbenzene	7.298	105	2037078	18.983	ppbV		99
69) Bromobenzene	7.309	77	872095M6	19.537	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

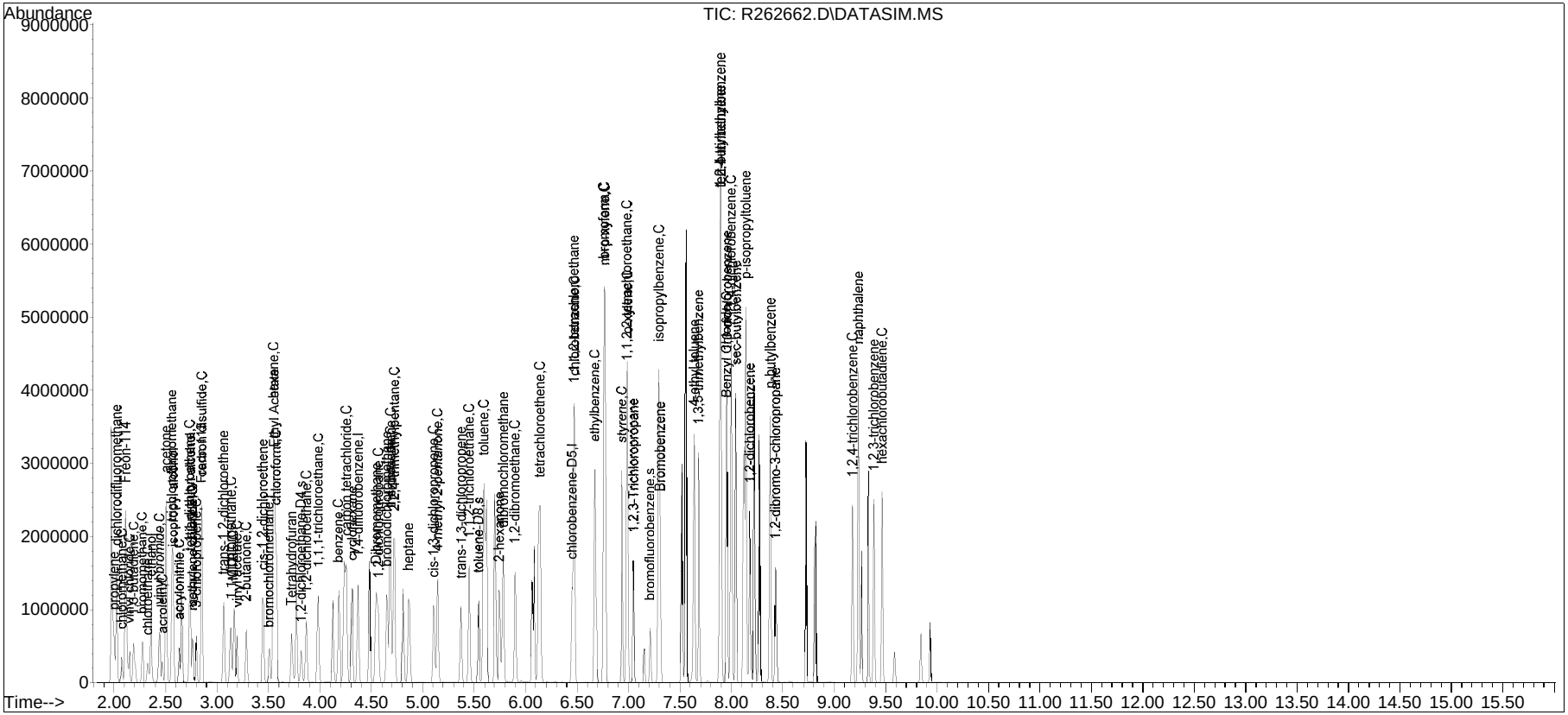
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.638	105	2029358M6	19.130	ppbV	
71) 1,3,5-trimethylbenzene	7.678	105	1683938M4	19.551	ppbV	
72) tert-butylbenzene	7.893	119	1907248	19.360	ppbV	98
73) 1,2,4-trimethylbenzene	7.893	105	1755291	19.147	ppbV	99
74) Benzyl Chloride	7.949	91	1515105	21.125	ppbV	98
75) 1,3-dichlorobenzene	7.957	146	1371859M6	19.602	ppbV	
76) 1,4-dichlorobenzene	7.997	146	1418551M6	20.219	ppbV	
77) sec-butylbenzene	8.045	105	2551705	19.366	ppbV	99
78) p-isopropyltoluene	8.141	119	2243517M6	19.358	ppbV	
79) 1,2-dichlorobenzene	8.181	146	1346632	19.844	ppbV	98
80) n-butylbenzene	8.380	91	2060790	19.313	ppbV	98
81) 1,2-dibromo-3-chloropr...	8.428	75	549631	20.922	ppbV	98
82) 1,2,4-trichlorobenzene	9.180	180	1338062	21.139	ppbV	100
83) naphthalene	9.233	128	3092548	20.867	ppbV	100
84) 1,2,3-trichlorobenzene	9.385	180	1354749	18.528	ppbV	100
85) hexachlorobutadiene	9.461	225	996447	19.467	ppbV	99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262662.D
Acq On : 03 Apr 2025 05:30 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD020
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

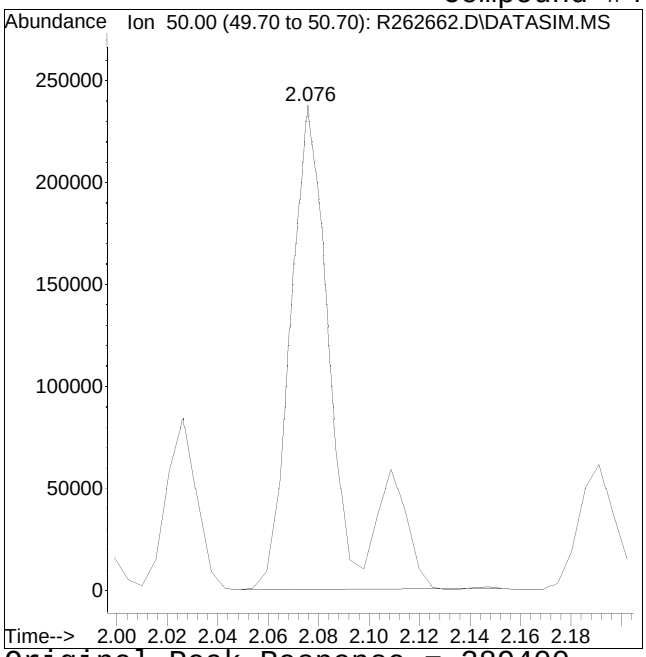
Quant Time: Apr 03 13:19:52 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration



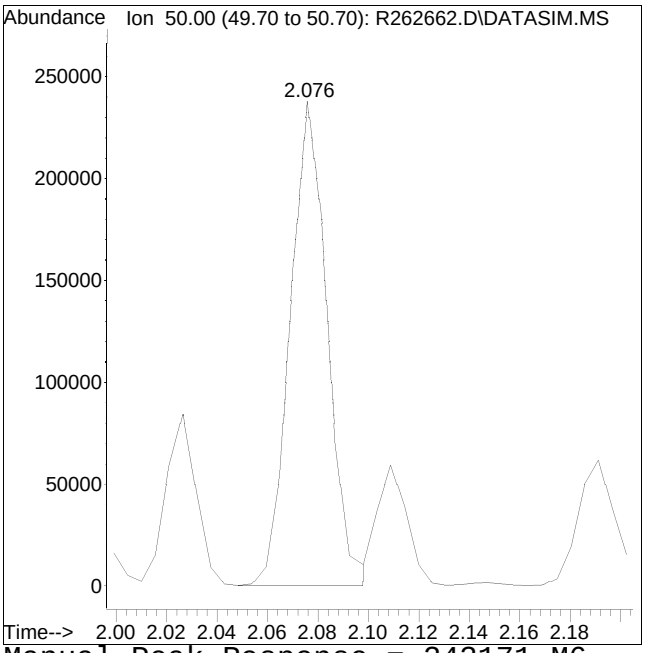
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 289400



Manual Peak Response = 243171 M6

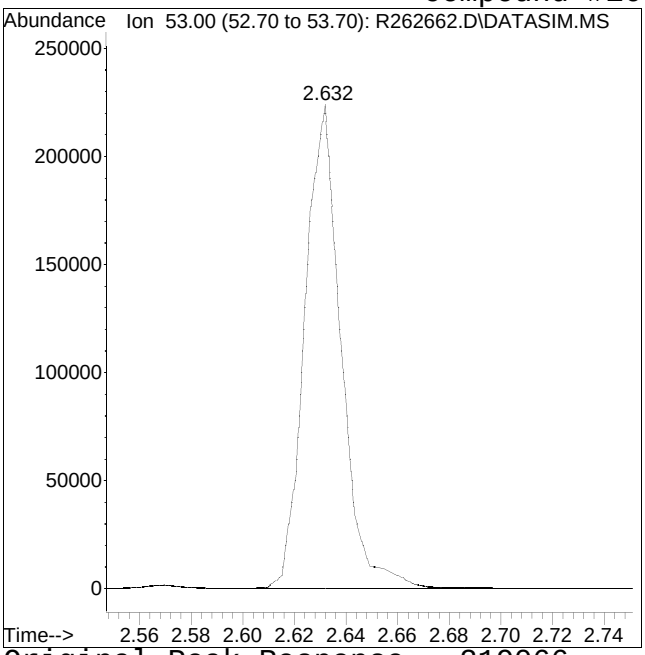
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

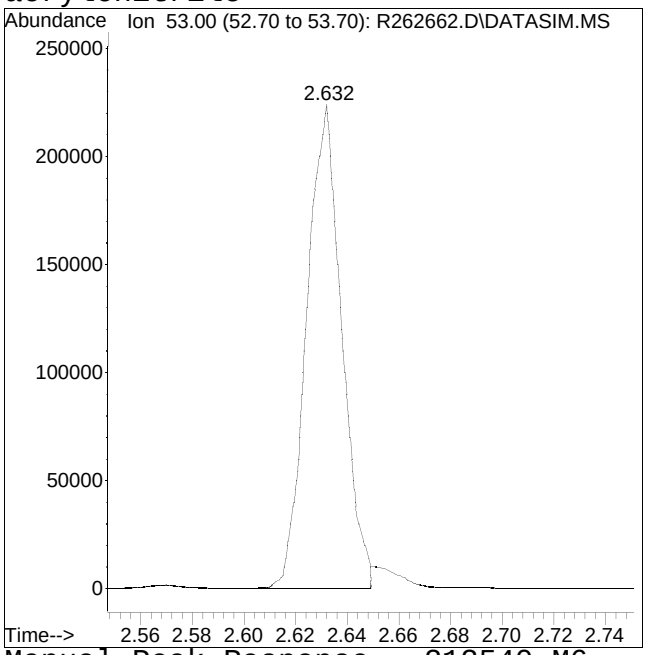
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262662.D
Date Inj'd : 4/3/2025 5:30 am
Sample : ITO15-LLSTD020

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #16: acrylonitrile



Original Peak Response = 219066



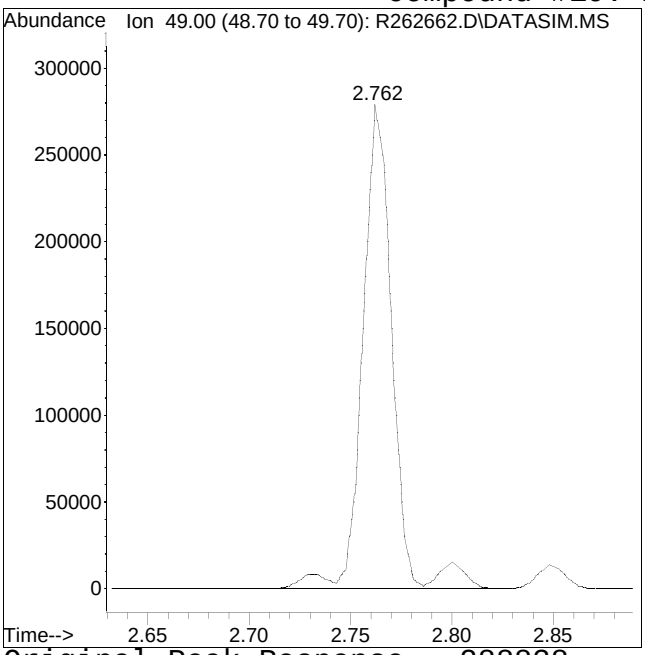
Manual Peak Response = 212540 M6

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

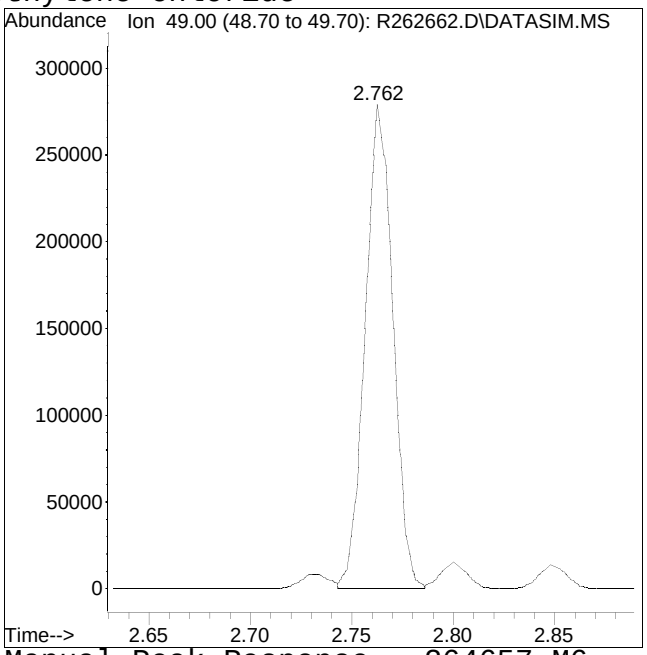
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 288838



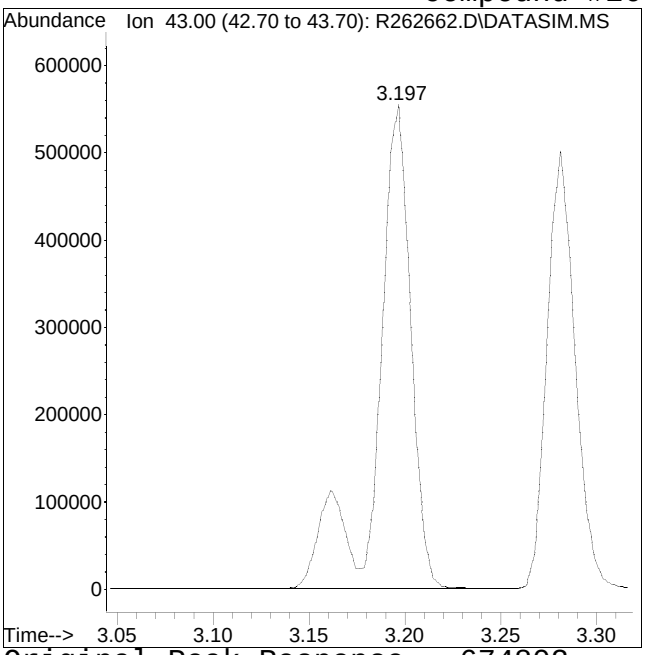
Manual Peak Response = 264657 M6

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

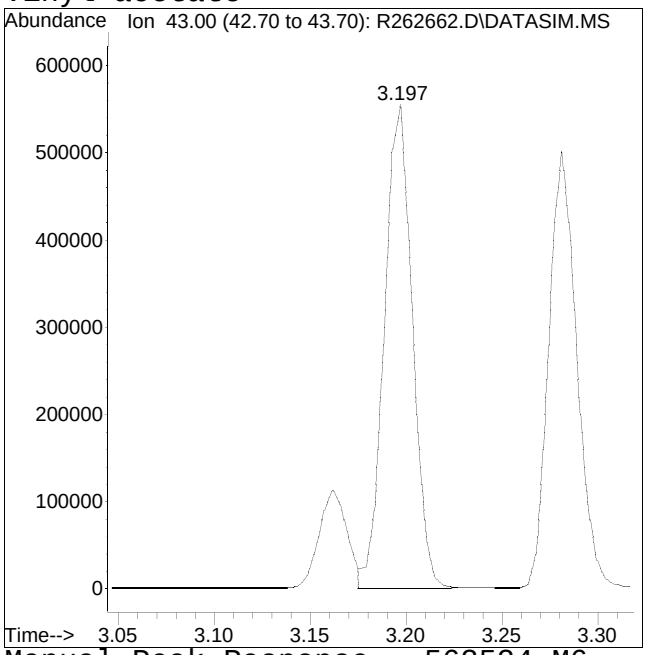
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 674802



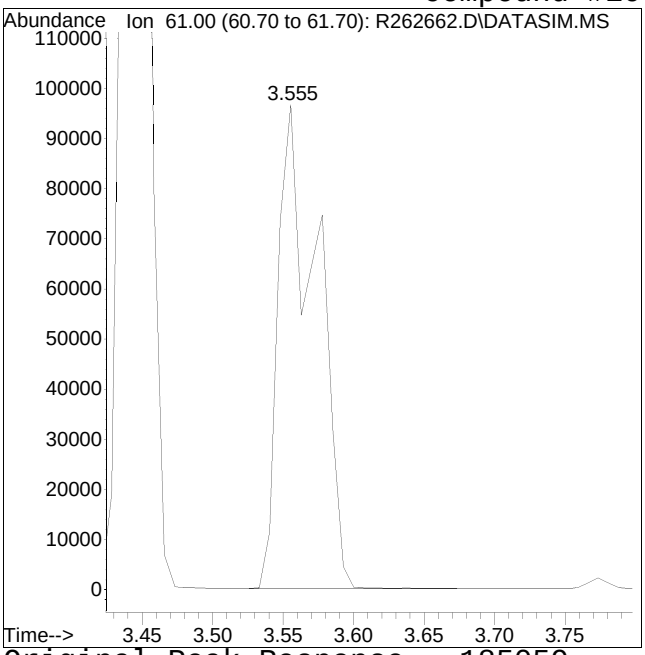
Manual Peak Response = 562524 M6

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

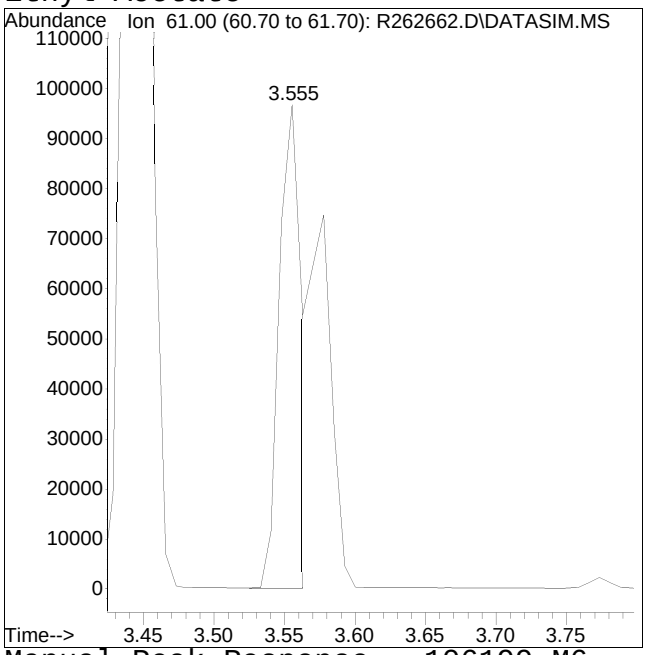
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 185059



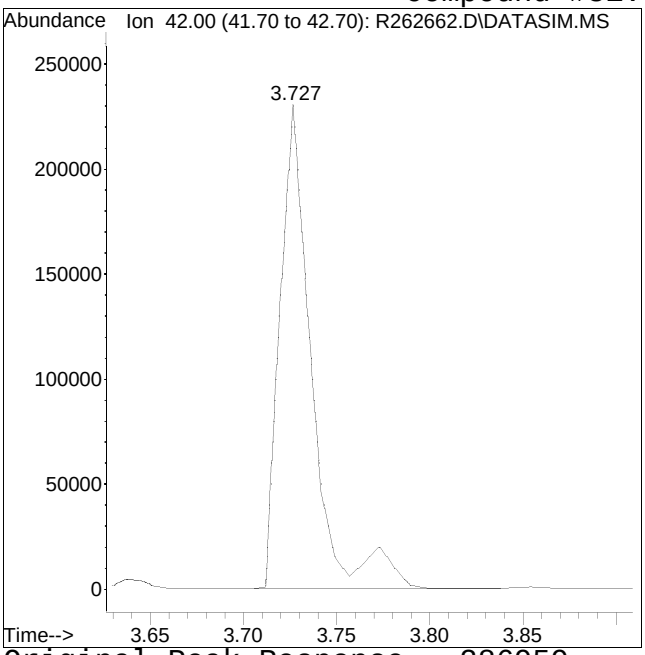
Manual Peak Response = 106199 M6

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

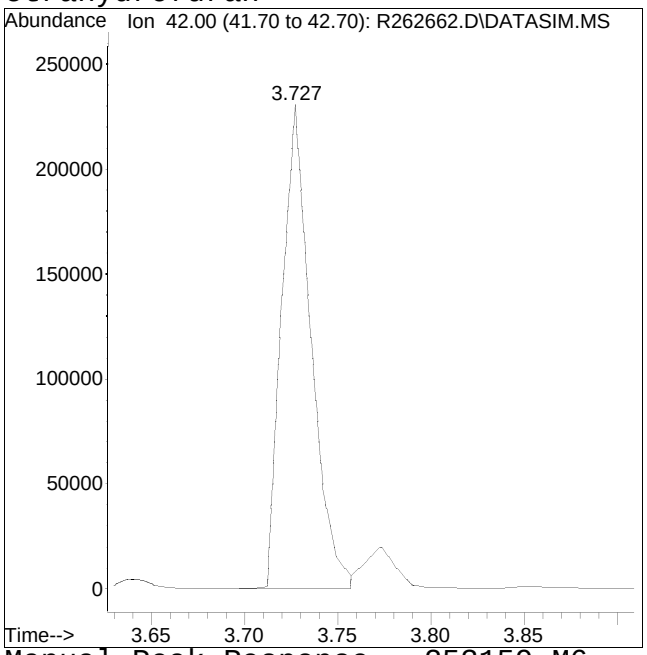
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 286959



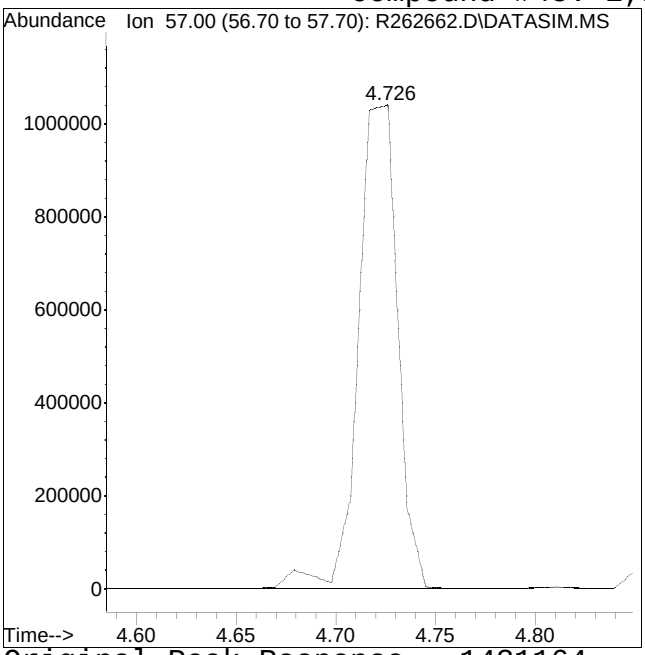
Manual Peak Response = 253159 M6

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

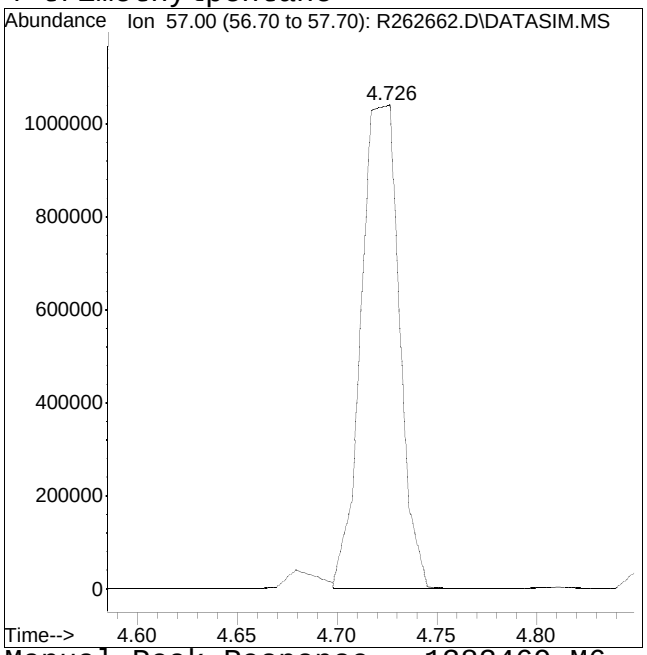
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 1431164



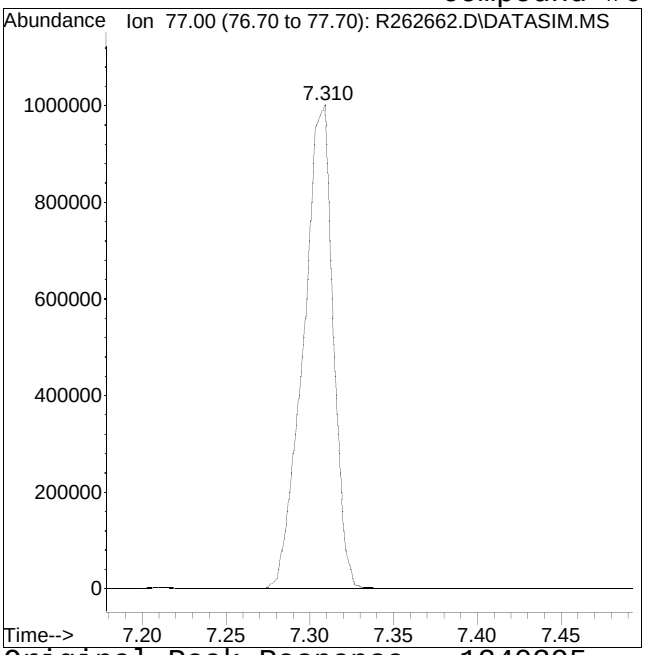
Manual Peak Response = 1383469 M6

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

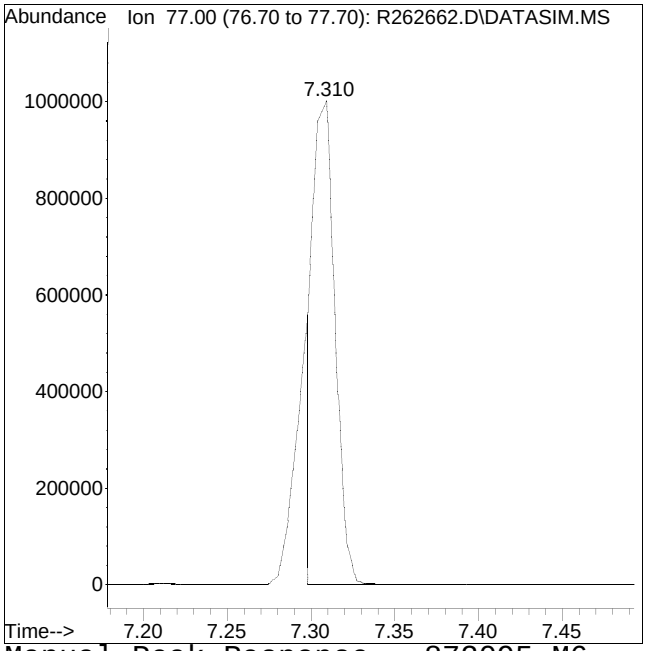
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 1240395



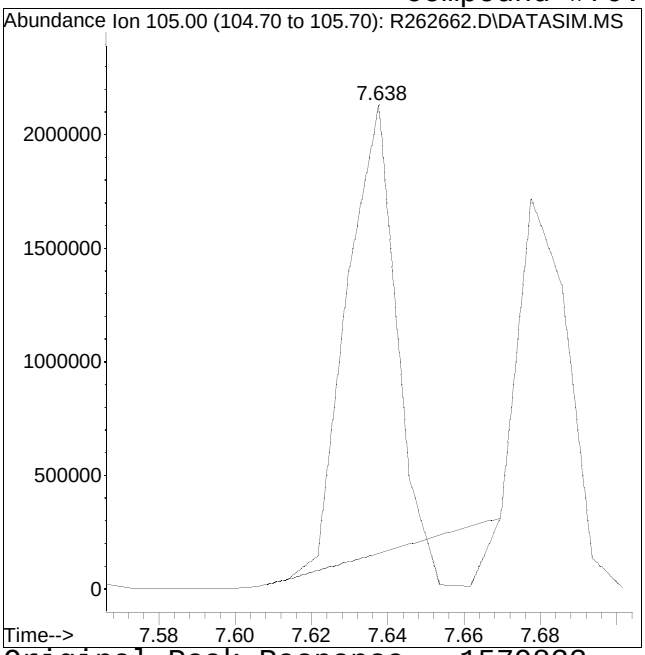
Manual Peak Response = 872095 M6

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

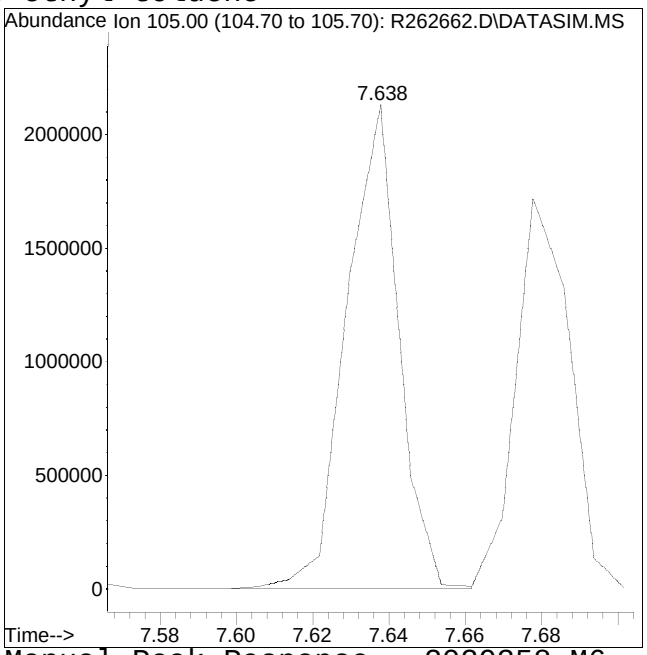
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 1579833



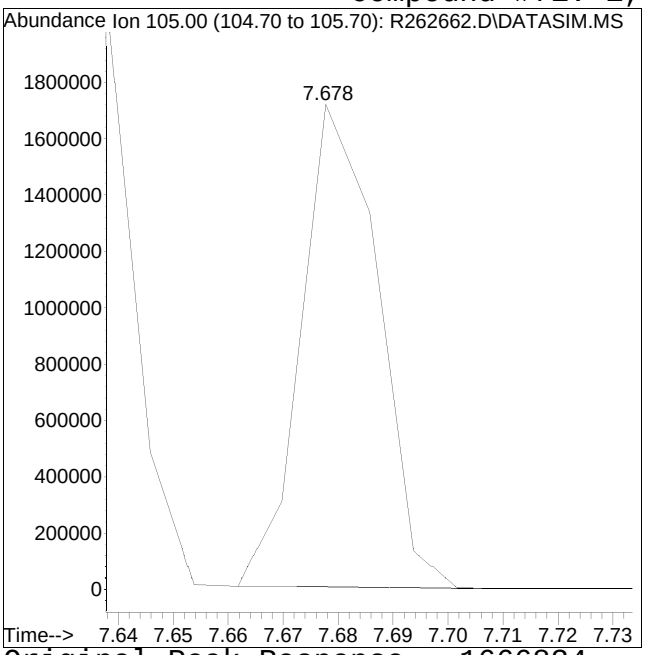
Manual Peak Response = 2029358 M6

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

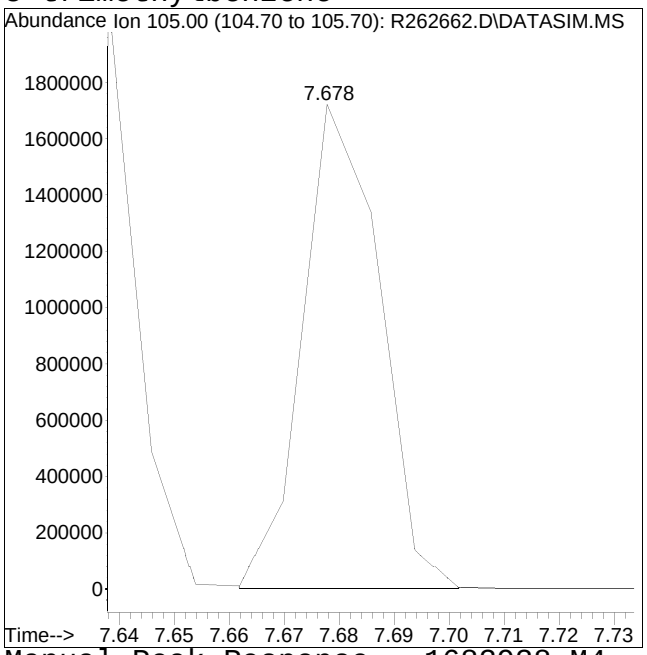
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #71: 1,3,5-trimethylbenzene



Original Peak Response = 1666834



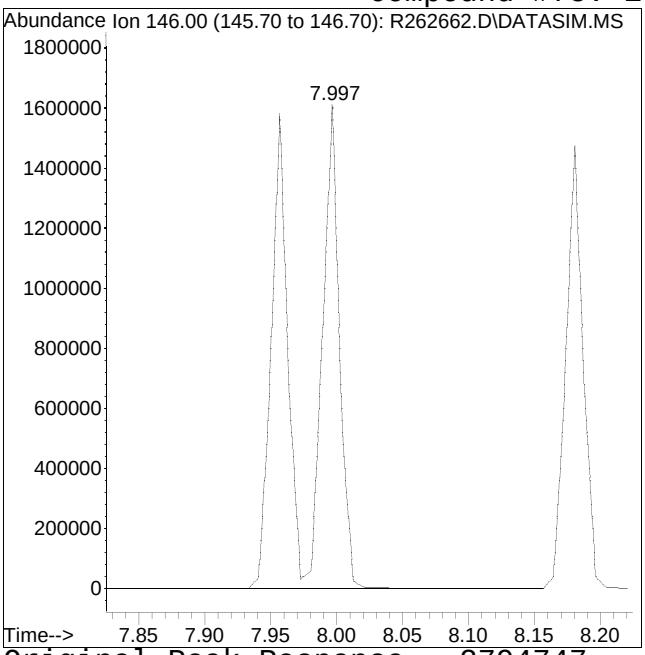
Manual Peak Response = 1683938 M4

M4 = Poor automated baseline construction.

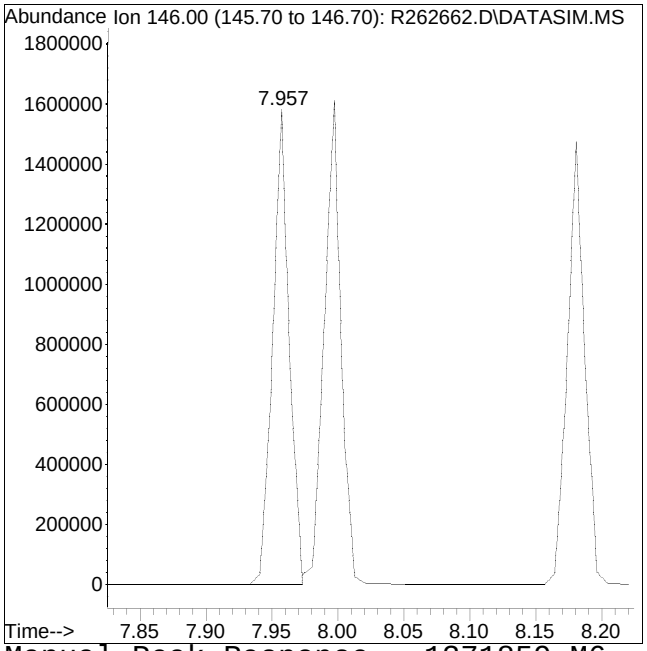
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 2794747



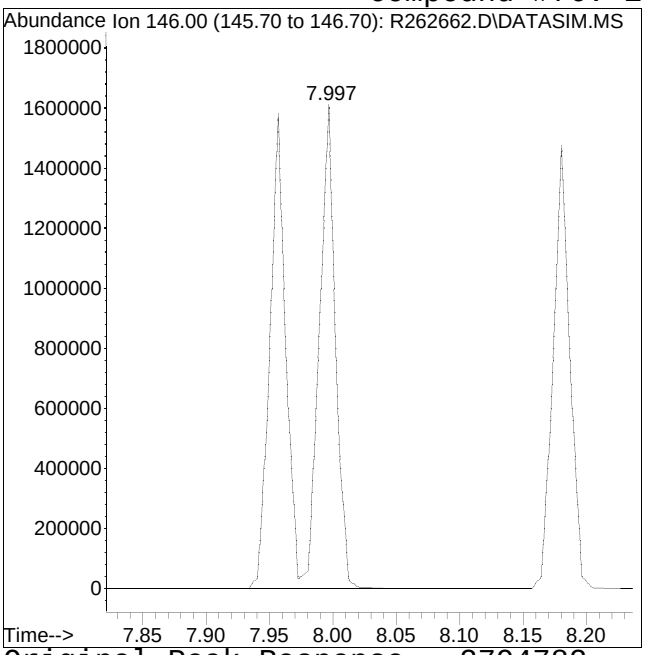
Manual Peak Response = 1371859 M6

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

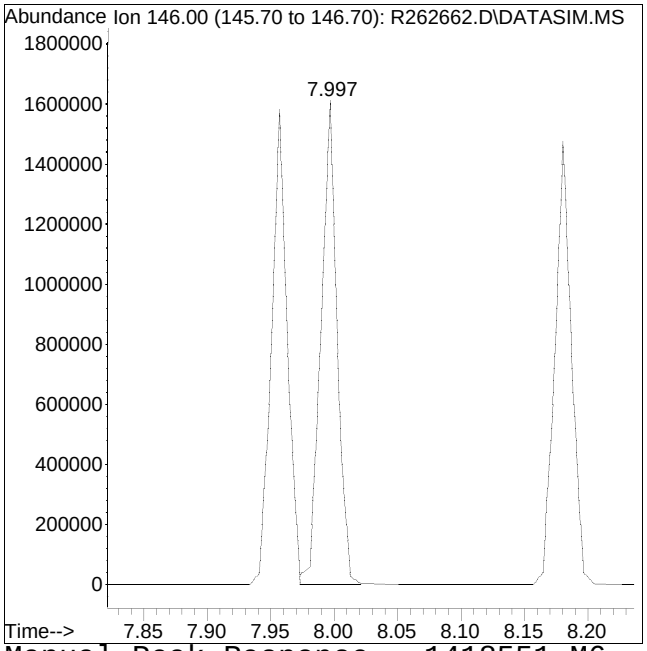
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 2794782



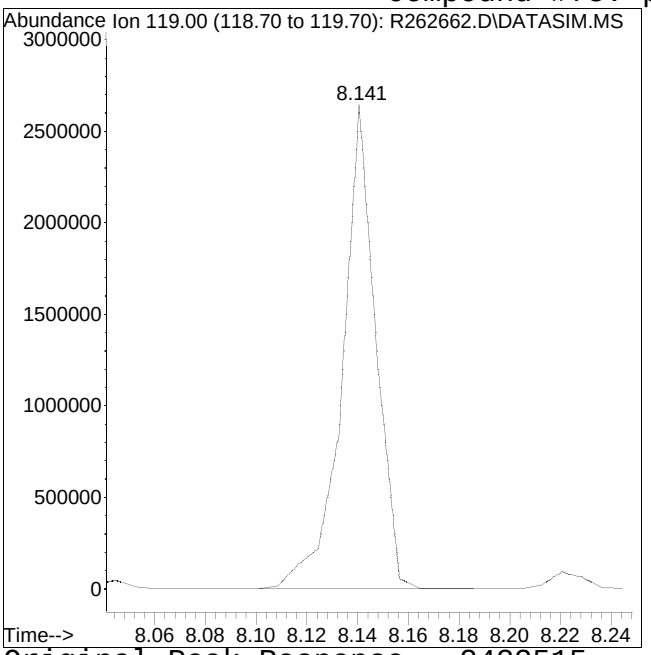
Manual Peak Response = 1418551 M6

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

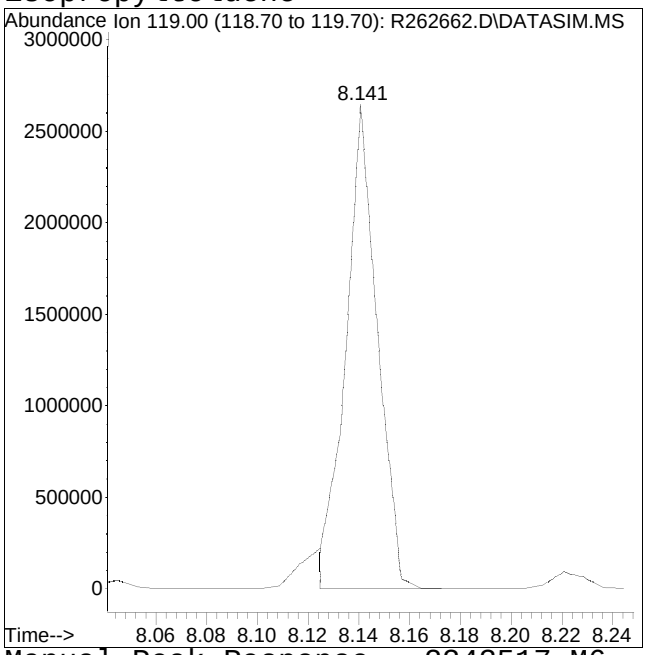
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262662.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 5:30 am Instrument : Airlab26
Sample : ITO15-LLSTD020 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 2422515



Manual Peak Response = 2243517 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\04\0402SIM_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.503	49	205722	10.000	ppbV		0.00
Standard Area = 212543			Recovery = 96.79%				
33) 1,4-difluorobenzene	4.368	114	906424	10.000	ppbV		0.00
Standard Area = 923837			Recovery = 98.12%				
51) chlorobenzene-D5	6.452	54	104748	10.000	ppbV	#	0.00
Standard Area = 104535			Recovery = 100.20%				
System Monitoring Compounds							
35) 1,2-dichloroethane-D4	3.822	65	204889M6	9.779	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.79%				
53) toluene-D8	5.544	98	688837	9.836	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.36%				
67) bromofluorobenzene	7.210	95	454767	9.865	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.65%				
Target Compounds							Qvalue
2) propylene	2.004	41	514597	48.210	ppbV		99
3) dichlorodifluoromethane	2.026	85	2036672	47.231	ppbV		99
4) chloromethane	2.076	50	591398M6	48.629	ppbV		
5) Freon-114	2.109	85	2084358	46.481	ppbV		98
6) vinyl chloride	2.142	62	763595M6	48.610	ppbV		
7) 1,3-butadiene	2.185	54	501015	48.979	ppbV	#	22
8) bromomethane	2.273	94	802248	49.605	ppbV		99
9) chloroethane	2.328	64	430037	49.597	ppbV		99
10) ethanol	2.356	31	1452499	236.073	ppbV		97
11) vinyl bromide	2.434	106	826843	49.311	ppbV		100
12) acrolein	2.462	56	332286	51.746	ppbV		92
13) acetone	2.496	43	3557974	227.344	ppbV		97
14) trichlorofluoromethane	2.553	101	1868321	48.036	ppbV		99
15) isopropyl alcohol	2.564	45	2185389	123.328	ppbV		99
16) acrylonitrile	2.626	53	543836	51.561	ppbV		97
17) 1,1-dichloroethene	2.729	61	1039182	48.564	ppbV		99
18) tertiary butyl alcohol	2.738	59	1436020	50.902	ppbV		99
19) methylene chloride	2.757	49	644553M6	48.635	ppbV		
20) 3-chloropropene	2.795	41	620544	49.208	ppbV		99
21) carbon disulfide	2.848	76	1965306	46.897	ppbV		100
22) Freon 113	2.848	101	1607613	47.591	ppbV		98
23) trans-1,2-dichloroethene	3.060	61	948715	49.151	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) 1,1-dichloroethane	3.130	63	1260947	49.096	ppbV		99
25) MTBE	3.157	73	1886533	48.492	ppbV		93
26) vinyl acetate	3.192	43	1396166M6	53.454	ppbV		
27) 2-butanone	3.277	43	1602302	49.777	ppbV		98
28) cis-1,2-dichloroethene	3.443	61	1085635	49.580	ppbV		99
29) Ethyl Acetate	3.547	61	281545M6	50.318	ppbV		
30) chloroform	3.562	83	1767659	48.618	ppbV		99
31) Tetrahydrofuran	3.719	42	635561M6	51.631	ppbV		
32) 1,2-dichloroethane	3.871	62	1020008	49.576	ppbV	#	92
34) hexane	3.540	57	1083607	47.953	ppbV		94
36) 1,1,1-trichloroethane	3.985	97	1868374	48.934	ppbV		99
37) benzene	4.179	78	2796939	48.886	ppbV		100
38) carbon tetrachloride	4.255	117	1870517	49.476	ppbV		99
39) cyclohexane	4.302	56	1137489	50.172	ppbV		98
40) Dibromomethane	4.547	93	1106119	49.394	ppbV	#	98
41) 1,2-dichloropropane	4.566	63	965832	49.239	ppbV		100
42) bromodichloromethane	4.651	83	1885595	50.057	ppbV		99
43) 1,4-dioxane	4.679	88	652861	51.531	ppbV		97
44) trichloroethene	4.688	130	1453743	48.775	ppbV		100
45) 2,2,4-trimethylpentane	4.717	57	3324602M6	46.346	ppbV		
46) heptane	4.858	43	1098669	47.916	ppbV		98
47) cis-1,3-dichloropropene	5.105	75	1597875	51.341	ppbV		99
48) 4-methyl-2-pentanone	5.145	43	1499628	48.192	ppbV		98
49) trans-1,3-dichloropropene	5.376	75	1290719	51.550	ppbV		99
50) 1,1,2-trichloroethane	5.448	97	1289948	48.811	ppbV		99
52) toluene	5.591	91	3429398	46.179	ppbV		98
54) 2-hexanone	5.743	43	1458949	48.547	ppbV		99
55) dibromochloromethane	5.783	129	2128591	50.535	ppbV		100
56) 1,2-dibromoethane	5.895	107	1997532	48.144	ppbV		99
57) tetrachloroethene	6.142	166	1816413	47.028	ppbV		100
58) 1,1,1,2-tetrachloroethane	6.468	131	1586414	49.328	ppbV	#	100
59) chlorobenzene	6.474	112	2972806	46.104	ppbV		99
60) ethylbenzene	6.675	91	4397275	45.517	ppbV		96
61) m+p-xylene	6.768	91	6682211	86.156	ppbV		96
62) bromoform	6.768	173	2026009	50.676	ppbV		99
63) styrene	6.937	104	2968570	48.189	ppbV		98
64) 1,1,2,2-tetrachloroethane	6.983	83	2638517	47.295	ppbV		98
65) o-xylene	6.989	91	3401227	45.827	ppbV		99
66) 1,2,3-Trichloropropane	7.047	75	1920974	49.008	ppbV		99
68) isopropylbenzene	7.298	105	4714022	43.386	ppbV		98

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

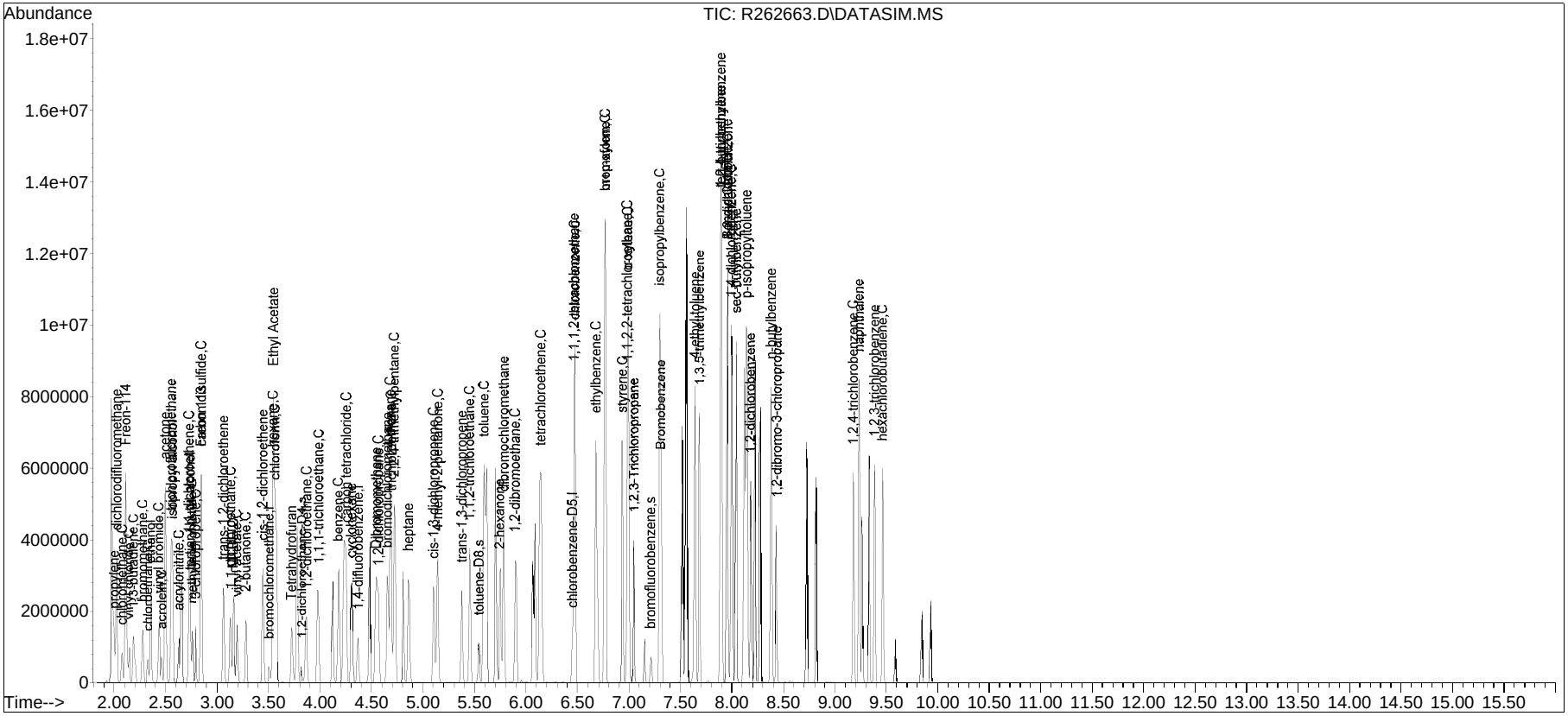
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Bromobenzene	7.309	77	2233823M6	49.425	ppbV	
70) 4-ethyl toluene	7.638	105	4781934M6	44.521	ppbV	
71) 1,3,5-trimethylbenzene	7.685	105	3957421	45.379	ppbV	94
72) tert-butylbenzene	7.893	119	4409523	44.207	ppbV	95
73) 1,2,4-trimethylbenzene	7.893	105	4036990	43.493	ppbV	96
74) Benzyl Chloride	7.957	91	3783503	52.102	ppbV	96
75) 1,3-dichlorobenzene	7.957	146	3431587M6	48.428	ppbV	
76) 1,4-dichlorobenzene	7.997	146	3398484M6	47.840	ppbV	
77) sec-butylbenzene	8.045	105	5861355	43.934	ppbV	94
78) p-isopropyltoluene	8.140	119	4611623M6	39.300	ppbV	
79) 1,2-dichlorobenzene	8.180	146	3256009	47.389	ppbV	97
80) n-butylbenzene	8.380	91	4837793	44.778	ppbV	95
81) 1,2-dibromo-3-chloropr...	8.436	75	1426522	53.629	ppbV #	96
82) 1,2,4-trichlorobenzene	9.180	180	3419378	53.352	ppbV	98
83) naphthalene	9.233	128	6983281	46.538	ppbV	96
84) 1,2,3-trichlorobenzene	9.385	180	3428778	46.314	ppbV	98
85) hexachlorobutadiene	9.461	225	2466258	47.587	ppbV	99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262663.D
Acq On : 03 Apr 2025 06:04 am
Operator : AIRLAB26:JJT
Sample : ITO15-LLSTD050
Misc : WG2049330
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Apr 03 13:19:59 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 13:16:43 2025
Response via : Initial Calibration

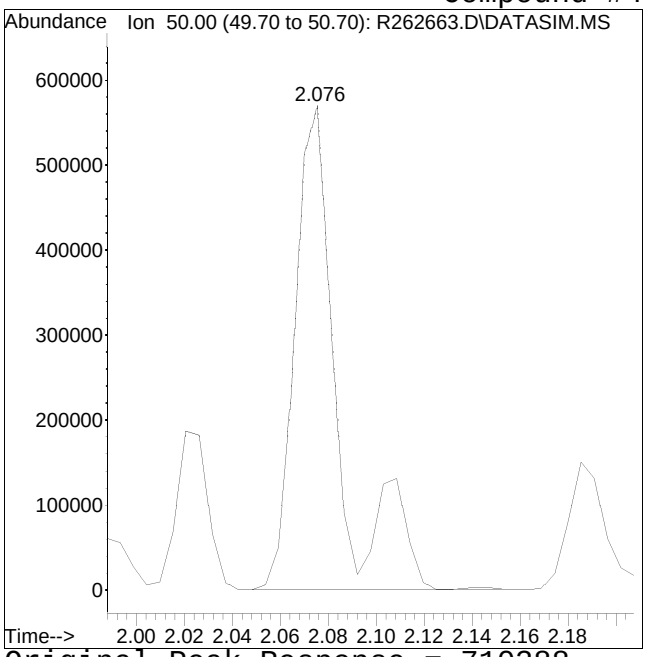


Manual Integration Report

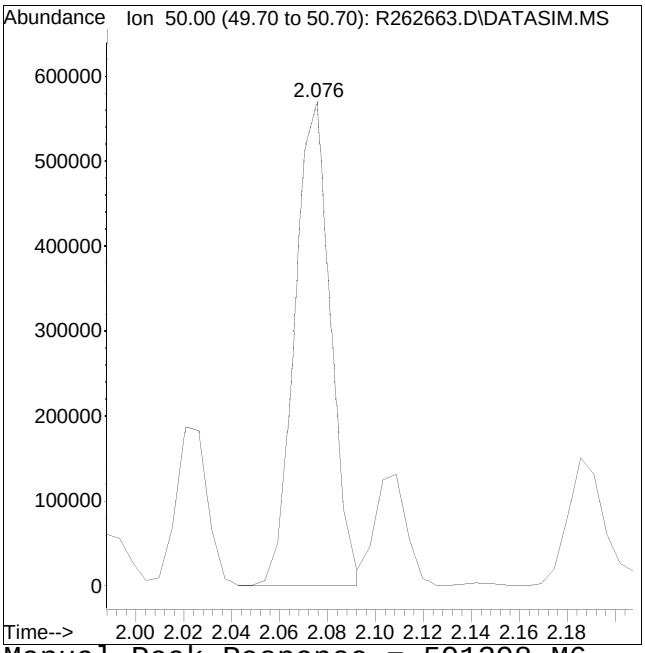
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262663.D
Date Inj'd : 4/3/2025 6:04 am
Sample : ITO15-LLSTD050

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 1:19 pm

Compound #4: chloromethane



Original Peak Response = 710388



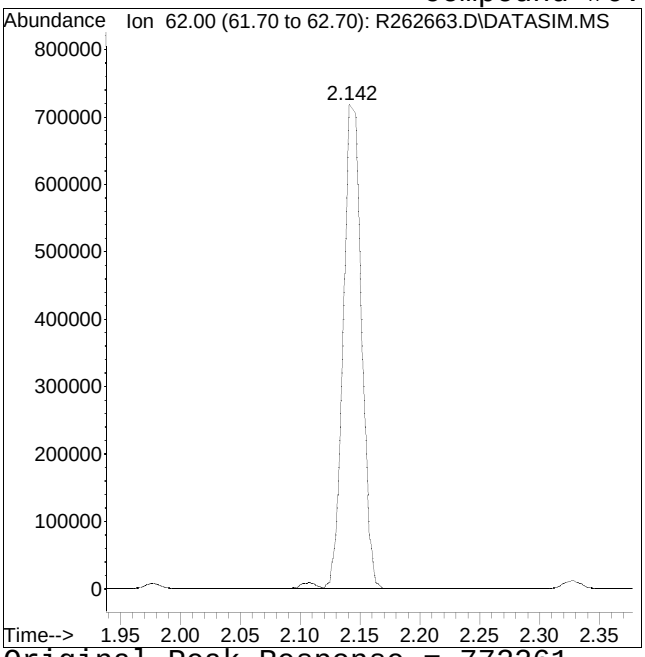
Manual Peak Response = 591398 M6

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

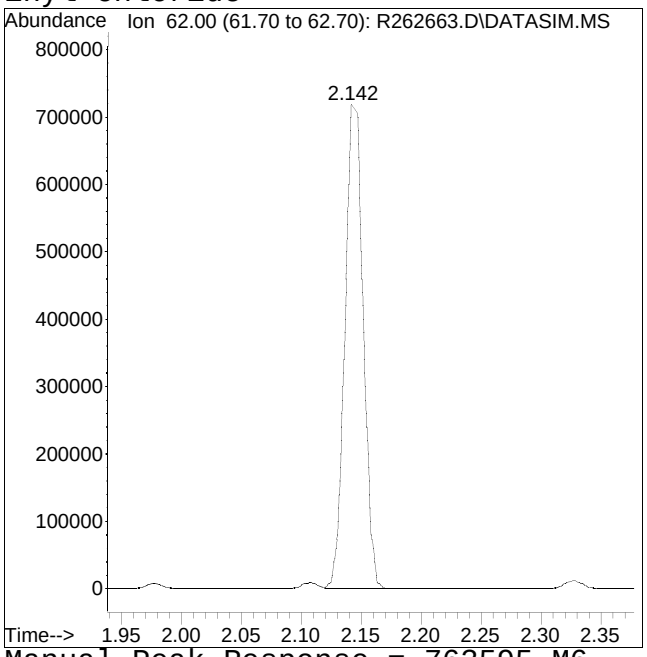
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #6: vinyl chloride



Original Peak Response = 772261



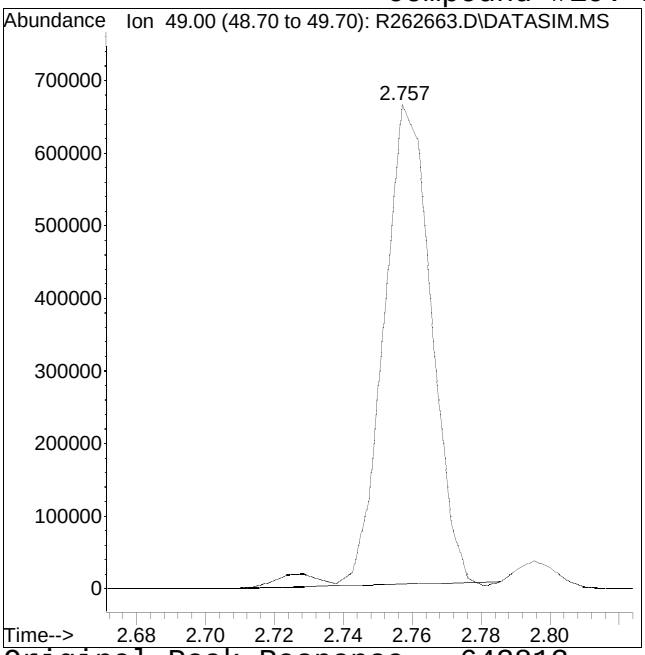
Manual Peak Response = 763595 M6

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

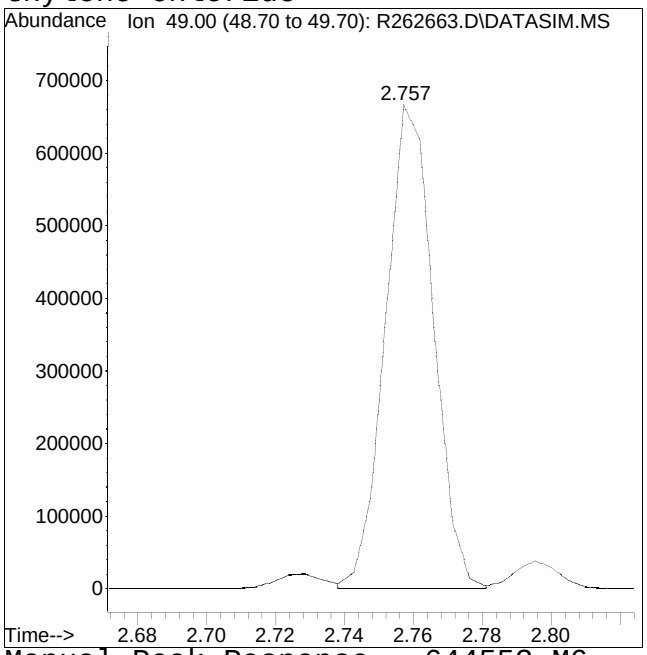
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #19: methylene chloride



Original Peak Response = 643813



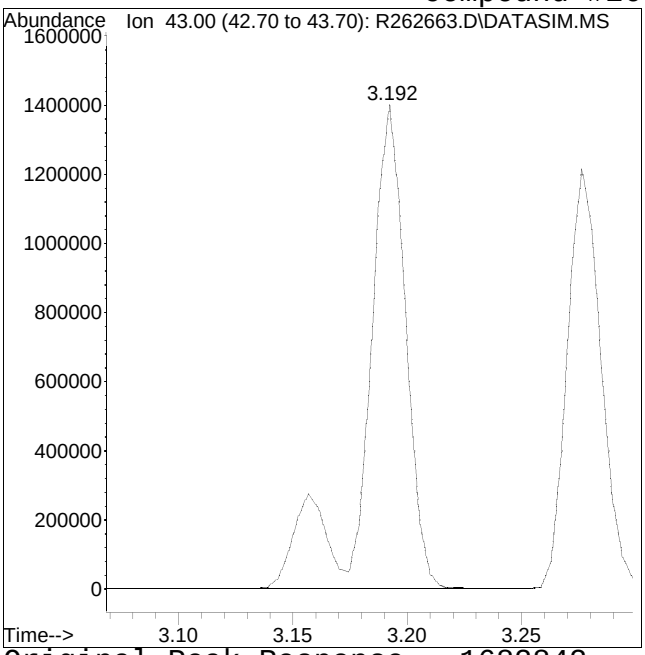
Manual Peak Response = 644553 M6

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

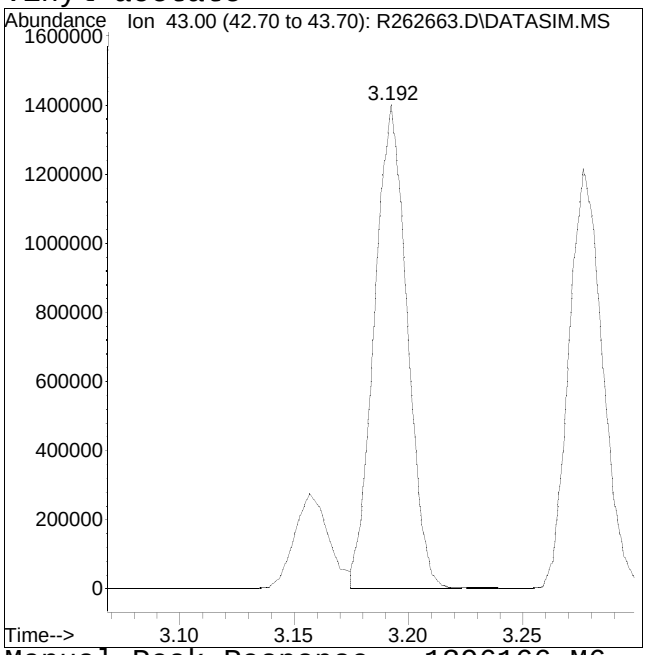
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #26: vinyl acetate



Original Peak Response = 1682842



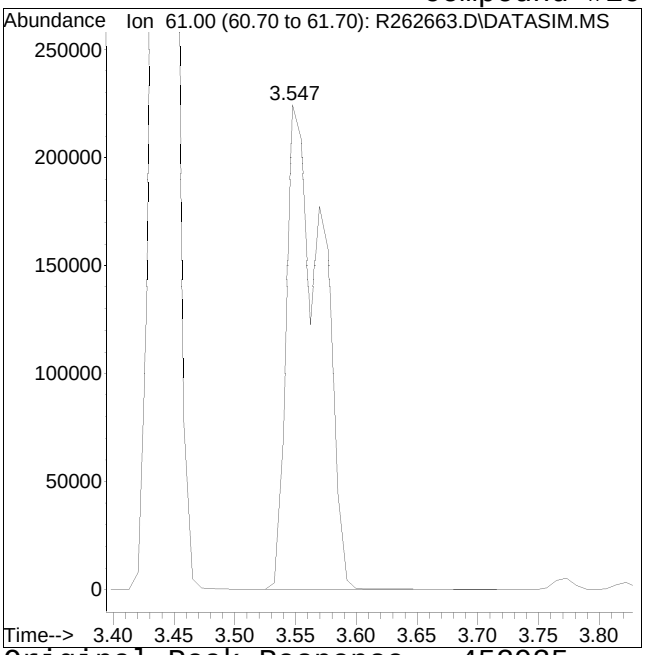
Manual Peak Response = 1396166 M6

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

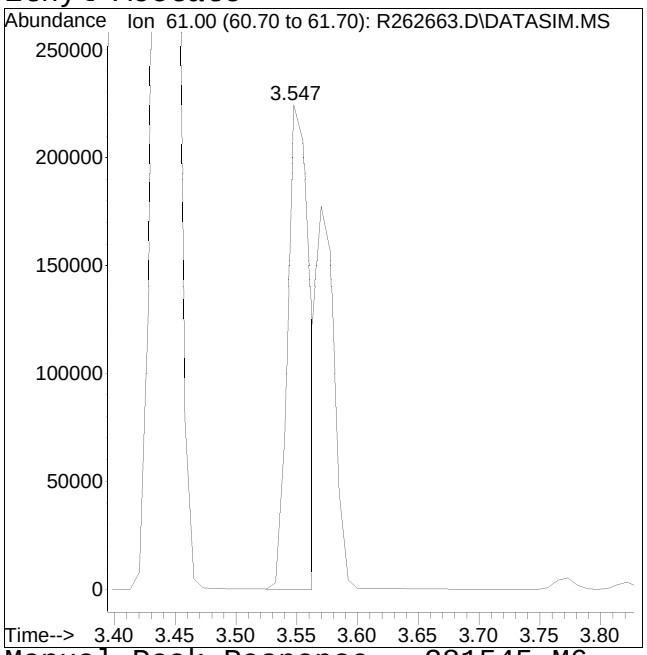
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #29: Ethyl Acetate



Original Peak Response = 452935



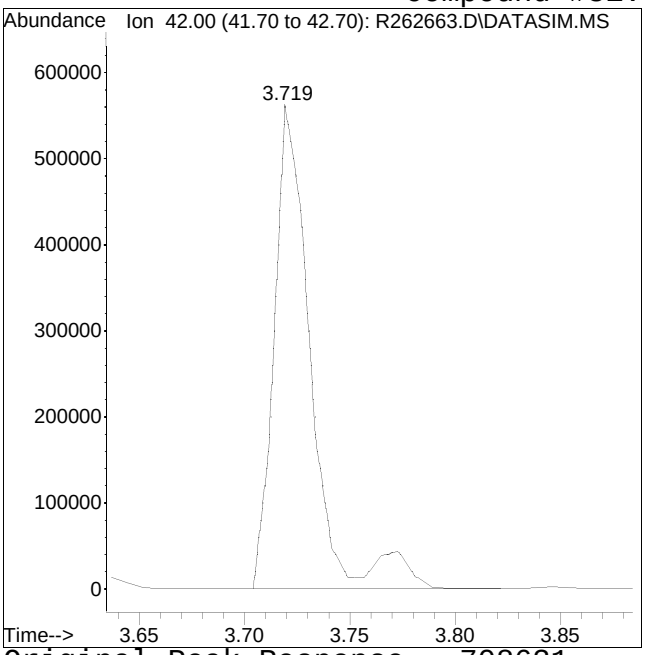
Manual Peak Response = 281545 M6

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

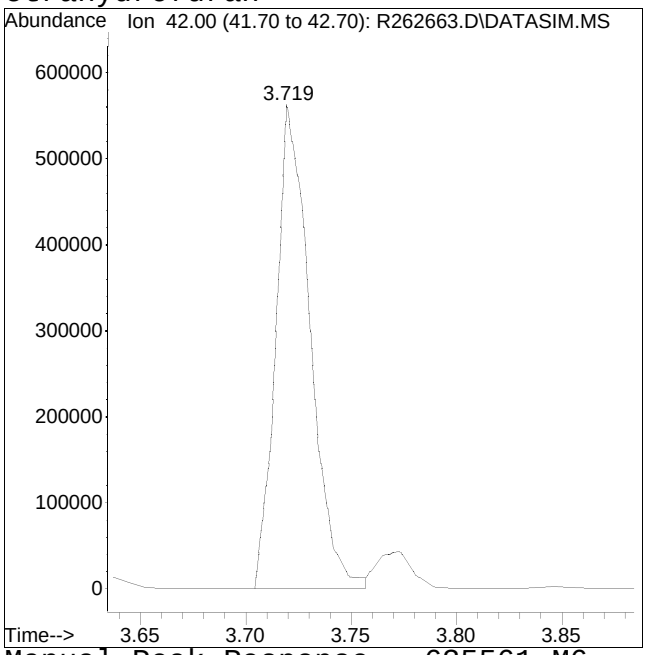
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 708631



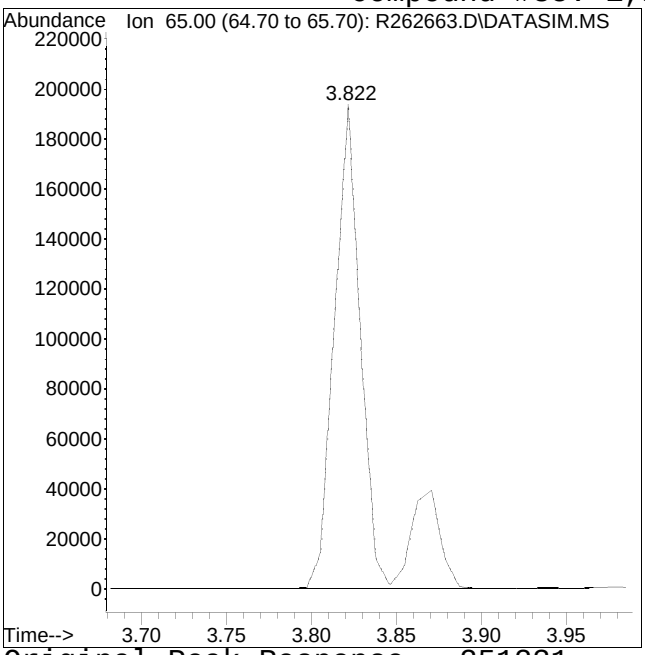
Manual Peak Response = 635561 M6

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

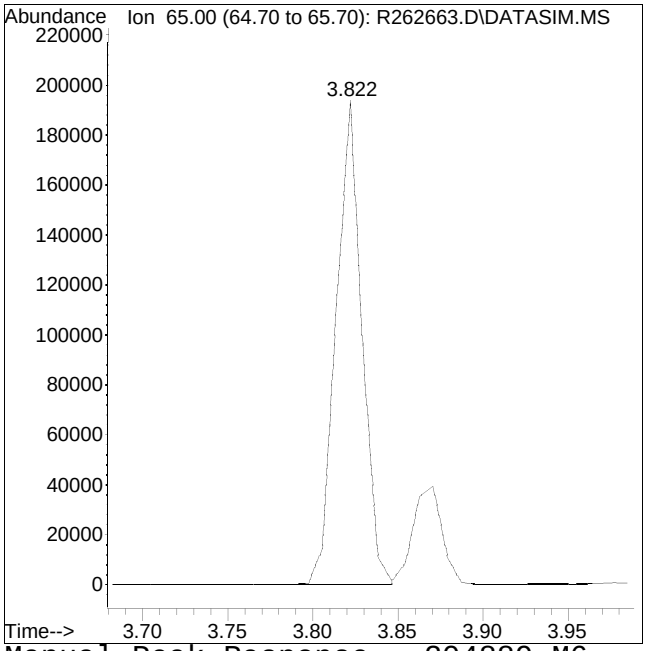
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #35: 1,2-dichloroethane-D4



Original Peak Response = 251231



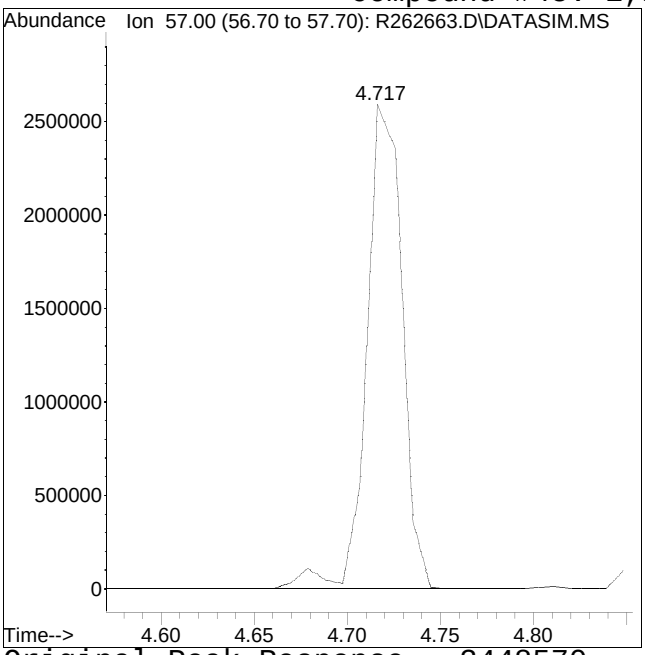
Manual Peak Response = 204889 M6

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

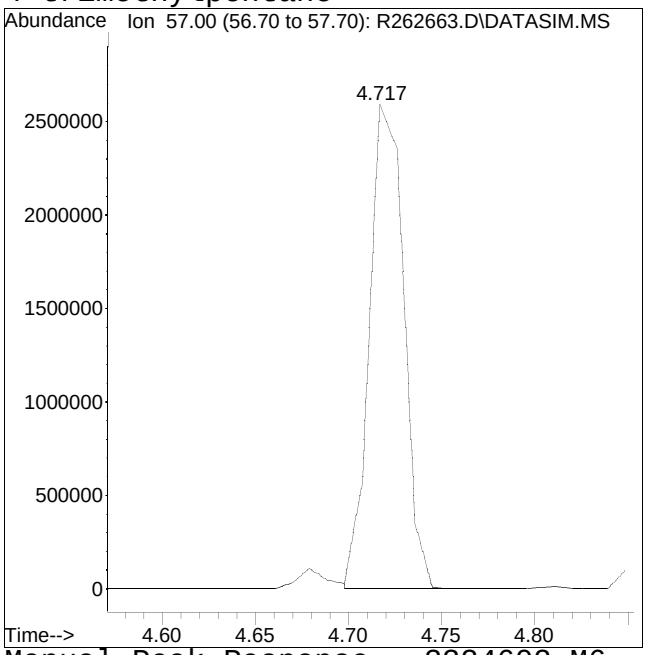
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 3448570



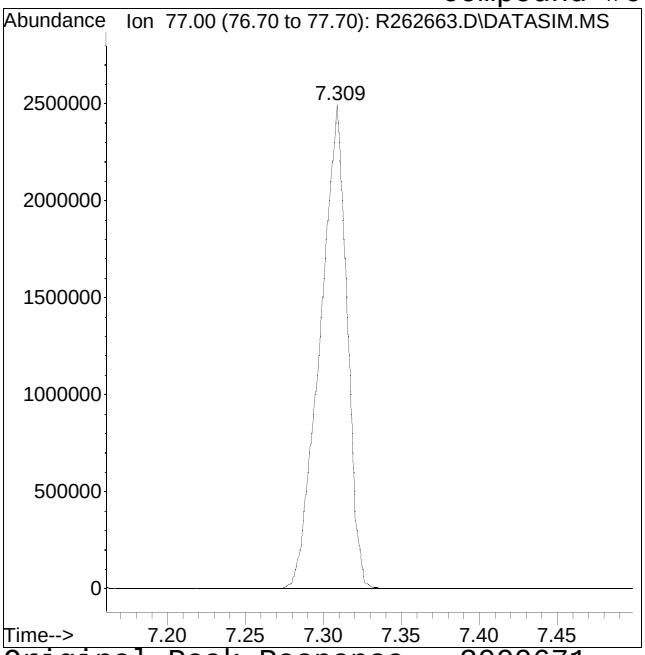
Manual Peak Response = 3324602 M6

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

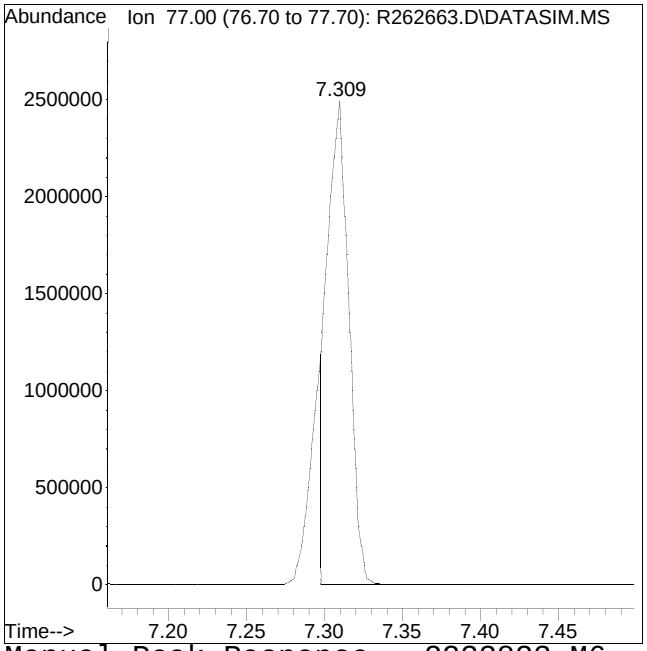
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #69: Bromobenzene



Original Peak Response = 3000671



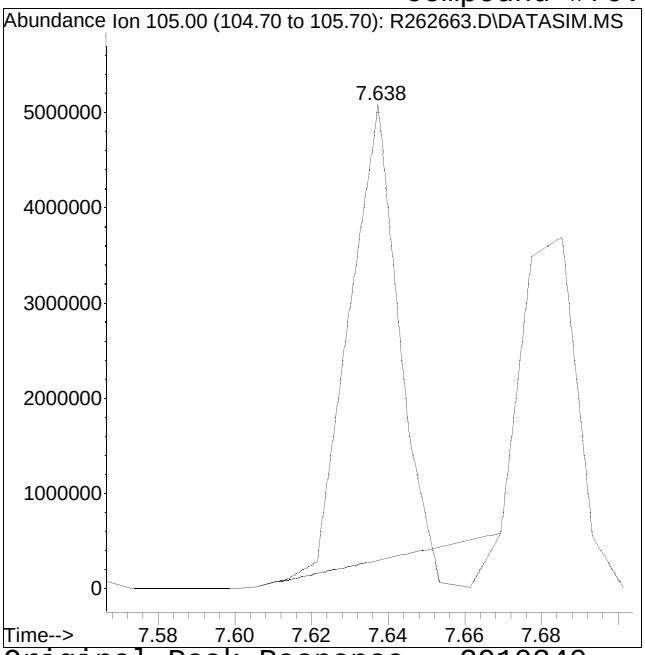
Manual Peak Response = 2233823 M6

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

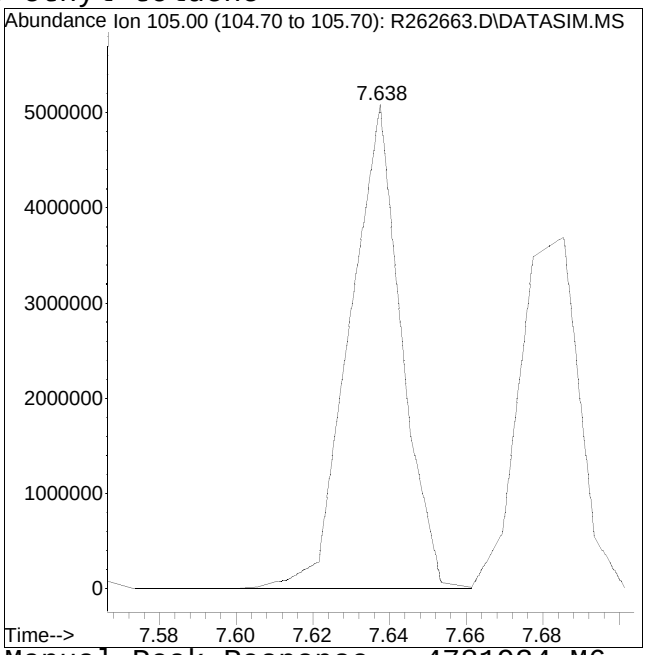
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 3910340



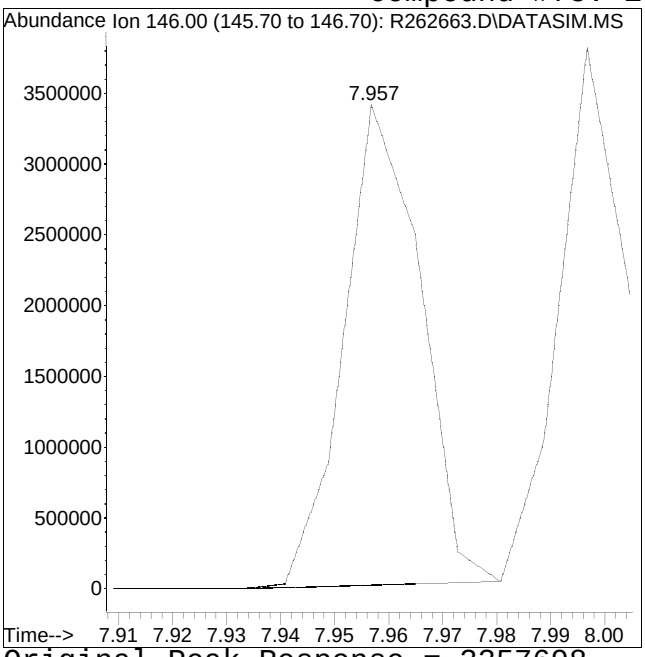
Manual Peak Response = 4781934 M6

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

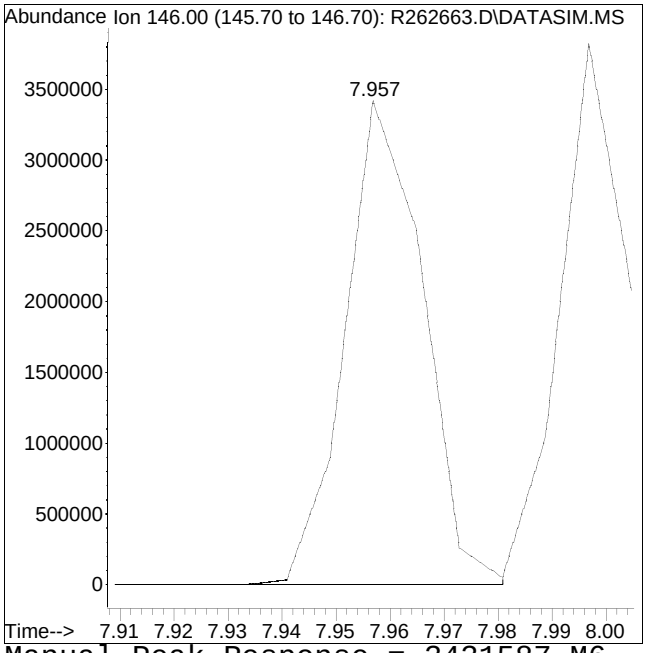
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 3357698



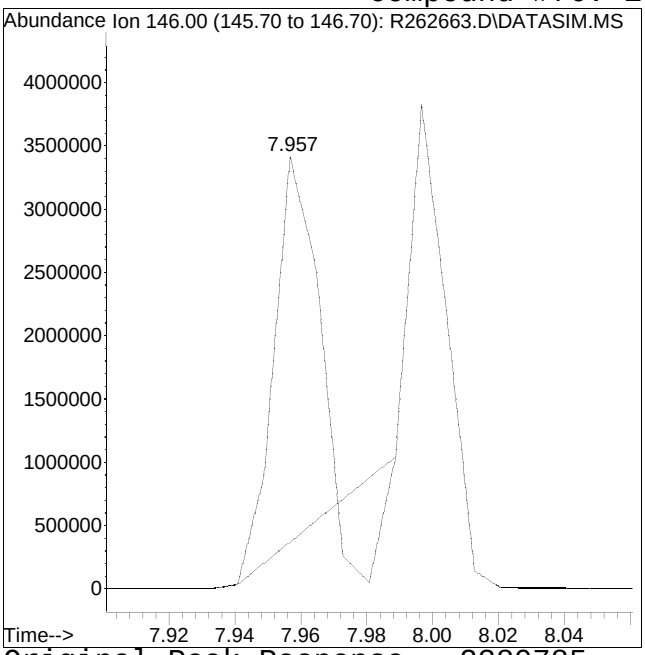
Manual Peak Response = 3431587 M6

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

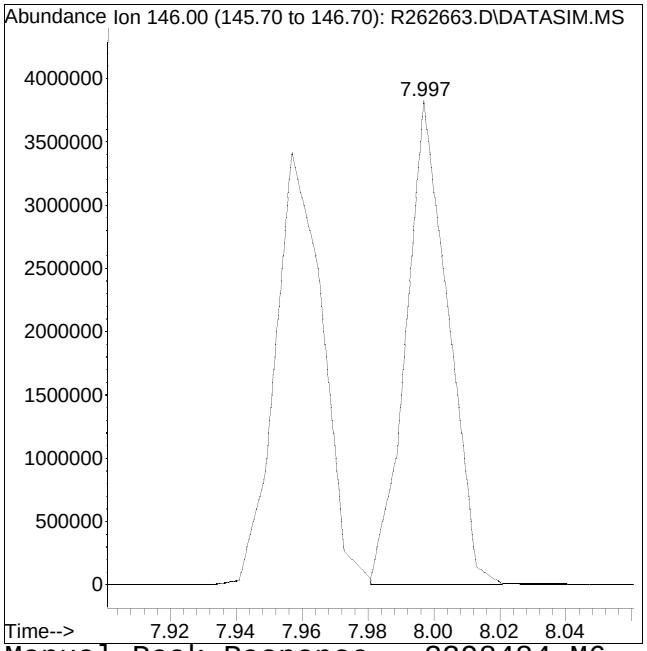
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 2380785



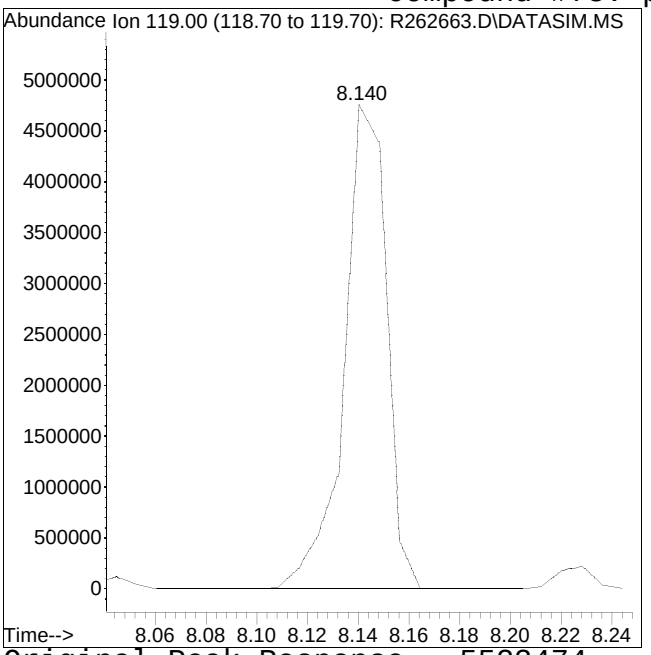
Manual Peak Response = 3398484 M6

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

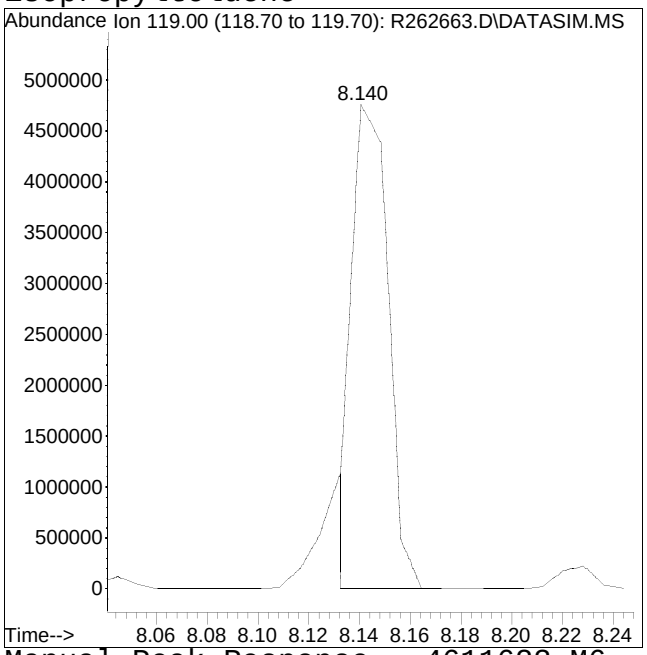
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262663.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 6:04 am Instrument : Airlab26
Sample : ITO15-LLSTD050 Quant Date : 4/3/2025 1:19 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 5523474



Manual Peak Response = 4611623 M6

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

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	95	0.00
2		propylene	0.557	0.552	0.9	101	0.00
3		dichlorodifluoromethane	2.223	2.346	-5.5	106	0.00
4	C	chloromethane	0.632	0.618	2.2	99	0.00
5		Freon-114	2.327	2.611	-12.2	114	0.00
6	C	vinyl chloride	0.830	0.855	-3.0	106	0.00
7	C	1,3-butadiene	0.533	0.533	0.0	102	0.00
8	C	bromomethane	0.869	0.943	-8.5	114	0.00
9	C	chloroethane	0.454	0.479	-5.5	108	0.00
10		ethanol	0.330	0.283	14.2	90	0.01
11	C	vinyl bromide	0.871	0.902	-3.6	105	0.00
12	C	acrolein	0.353	0.280	20.7	85	0.00
13		acetone	0.823	0.854	-3.8	107	0.00
14		trichlorofluoromethane	2.038	2.148	-5.4	108	0.00
15		isopropyl alcohol	0.963	0.831	13.7	92	0.00
16	C	acrylonitrile	0.561	0.503	10.3	93	0.00
17	C	1,1-dichloroethene	1.120	1.205	-7.6	110	0.00
18		tertiary butyl alcohol	1.435	1.395	2.8	97	0.00
19	C	methylene chloride	0.685	0.719	-5.0	106	0.00
20	C	3-chloropropene	0.654	0.651	0.5	101	0.00
21	C	carbon disulfide	2.158	2.210	-2.4	103	0.00
22		Freon 113	1.774	1.885	-6.3	109	0.00
23		trans-1,2-dichloroethene	1.010	1.021	-1.1	103	0.00
24	C	1,1-dichloroethane	1.358	1.395	-2.7	106	0.00
25	C	MTBE	2.050	2.078	-1.4	104	0.00
26	C	vinyl acetate	1.405	0.943	32.9#	71	0.00
27	C	2-butanone	1.594	1.354	15.1	82	0.00
28		cis-1,2-dichloroethene	1.151	1.201	-4.3	107	0.00
29		Ethyl Acetate	0.288	0.264	8.3	92	0.00
30	C	chloroform	1.916	1.996	-4.2	107	0.00
31		Tetrahydrofuran	0.644	0.699	-8.5	111	0.00
32	C	1,2-dichloroethane	1.095	1.107	-1.1	105	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.00
34	C	hexane	0.277	0.265	4.3	104	0.00
35	s	1,2-dichloroethane-D4	0.231	0.229	0.9	96	0.00
36	C	1,1,1-trichloroethane	0.456	0.460	-0.9	106	0.00
37	C	benzene	0.683	0.682	0.1	105	0.00
38	C	carbon tetrachloride	0.444	0.461	-3.8	107	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	0.274	0.271	1.1	105	0.00
40		Dibromomethane	0.269	0.244	9.3	96	0.00
41	C	1,2-dichloropropane	0.230	0.234	-1.7	105	0.00
42		bromodichloromethane	0.441	0.460	-4.3	108	0.00
43	C	1,4-dioxane	0.150	0.156	-4.0	108	0.00
44	C	trichloroethene	0.349	0.367	-5.2	108	0.00
45	C	2,2,4-trimethylpentane	0.842	0.848	-0.7	104	0.00
46		heptane	0.268	0.271	-1.1	104	0.00
47	C	cis-1,3-dichloropropene	0.365	0.404	-10.7	114	0.00
48	C	4-methyl-2-pentanone	0.353	0.362	-2.5	103	0.00
49		trans-1,3-dichloropropene	0.287	0.344	-19.9	121	0.00
50	C	1,1,2-trichloroethane	0.311	0.321	-3.2	107	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	94	0.00
52	C	toluene	7.623	8.057	-5.7	107	0.00
53	s	toluene-D8	6.669	6.936	-4.0	97	0.00
54		2-hexanone	2.908	3.005	-3.3	98	0.00
55		dibromochloromethane	4.173	4.678	-12.1	109	0.00
56	C	1,2-dibromoethane	4.227	4.673	-10.6	111	0.00
57	C	tetrachloroethene	3.907	4.163	-6.6	106	0.00
58		1,1,1,2-tetrachloroethane	3.210	3.069	4.4	94	0.00
59	C	chlorobenzene	6.510	6.947	-6.7	106	0.00
60	C	ethylbenzene	9.760	10.367	-6.2	106	0.00
61	C	m+p-xylene	7.842	8.578	-9.4	109	0.00
62	C	bromoform	3.863	4.507	-16.7	111	0.00
63	C	styrene	5.891	6.796	-15.4	109	0.00
64	C	1,1,2,2-tetrachloroethane	5.540	6.233	-12.5	110	0.00
65	C	o-xylene	7.603	8.232	-8.3	109	0.00
66		1,2,3-Trichloropropane	3.995	3.875	3.0	97	0.00
67	s	bromofluorobenzene	4.343	4.450	-2.5	95	0.00
68	C	isopropylbenzene	10.930	10.993	-0.6	100	0.00
69		Bromobenzene	4.577	4.546	0.7	99	0.00
70		4-ethyl toluene	10.352	11.499	-11.1	105	0.00
71		1,3,5-trimethylbenzene	8.833	9.868	-11.7	111	0.00
72		tert-butylbenzene	9.956	9.981	-0.3	98	0.00
73		1,2,4-trimethylbenzene	9.146	10.445	-14.2	111	0.00
74	C	Benzyl Chloride	6.820	6.682	2.0	91	0.00
75		1,3-dichlorobenzene	6.910	8.126	-17.6	113	0.00
76	C	1,4-dichlorobenzene	7.097	8.110	-14.3	112	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	13.431	13.047	2.9	96	0.00
78		p-isopropyltoluene	11.312	11.364	-0.5	95	0.00
79		1,2-dichlorobenzene	6.814	7.869	-15.5	113	0.00
80		n-butylbenzene	10.504	10.791	-2.7	98	0.00
81		1,2-dibromo-3-chloropropane	2.574	2.540	1.3	94	0.00
82	C	1,2,4-trichlorobenzene	6.022	7.894	-31.1#	121	0.00
83		naphthalene	14.354	13.982	2.6	92	0.00
84		1,2,3-trichlorobenzene	6.022	6.876	-14.2	91	0.00
85	C	hexachlorobutadiene	4.904	6.220	-26.8	118	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\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	202024	10.000	ppbV	0.00
Standard Area = 212543			Recovery = 95.05%			
33) 1,4-difluorobenzene	4.368	114	898332	10.000	ppbV	0.00
Standard Area = 923837			Recovery = 97.24%			
51) chlorobenzene-D5	6.452	54	98165	10.000	ppbV	0.00
Standard Area = 104535			Recovery = 93.91%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	3.822	65	206045	9.915	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.15%			
53) toluene-D8	5.544	98	680834	10.399	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.99%			
67) bromofluorobenzene	7.210	95	436873	10.247	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.47%			
Target Compounds						Qvalue
2) propylene	2.010	41	55712	4.949	ppbV	99
3) dichlorodifluoromethane	2.032	85	236947	5.277	ppbV	100
4) chloromethane	2.081	50	62458M6	4.894	ppbV	
5) Freon-114	2.114	85	263733	5.609	ppbV	99
6) vinyl chloride	2.153	62	86369	5.150	ppbV	100
7) 1,3-butadiene	2.191	54	53827	5.003	ppbV #	23
8) bromomethane	2.279	94	95204	5.426	ppbV	100
9) chloroethane	2.334	64	48410	5.277	ppbV	97
10) ethanol	2.367	31	142693	21.432	ppbV	99
11) vinyl bromide	2.439	106	91143	5.181	ppbV	99
12) acrolein	2.468	56	28316	3.971	ppbV	96
13) acetone	2.507	43	431275	25.933	ppbV	99
14) trichlorofluoromethane	2.558	101	216991	5.270	ppbV	100
15) isopropyl alcohol	2.570	45	209846	10.790	ppbV	100
16) acrylonitrile	2.632	53	50784	4.482	ppbV	97
17) 1,1-dichloroethene	2.733	61	121757	5.381	ppbV	100
18) tertiary butyl alcohol	2.738	59	140890	4.861	ppbV	98
19) methylene chloride	2.762	49	72622M6	5.247	ppbV	
20) 3-chloropropene	2.800	41	65711	4.970	ppbV	99
21) carbon disulfide	2.853	76	223242	5.121	ppbV	100
22) Freon 113	2.853	101	190380	5.311	ppbV	99
23) trans-1,2-dichloroethene	3.064	61	103142	5.053	ppbV	99
24) 1,1-dichloroethane	3.135	63	140926	5.136	ppbV	100

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	3.166	73	209926	5.068	ppbV	#	38
26) vinyl acetate	3.197	43	95266M6	3.357	ppbV		
27) 2-butanone	3.285	43	136727	4.246	ppbV	#	87
28) cis-1,2-dichloroethene	3.443	61	121283	5.214	ppbV		100
29) Ethyl Acetate	3.555	61	26682M6	4.592	ppbV		
30) chloroform	3.570	83	201581	5.207	ppbV		100
31) Tetrahydrofuran	3.734	42	70641M6	5.426	ppbV		
32) 1,2-dichloroethane	3.871	62	111870	5.058	ppbV	#	99
34) hexane	3.547	57	119244	4.785	ppbV		97
36) 1,1,1-trichloroethane	3.985	97	206465	5.039	ppbV		99
37) benzene	4.179	78	306150	4.987	ppbV		99
38) carbon tetrachloride	4.255	117	207046	5.192	ppbV		98
39) cyclohexane	4.311	56	121569	4.932	ppbV	#	80
40) Dibromomethane	4.547	93	109697	4.532	ppbV	#	98
41) 1,2-dichloropropane	4.566	63	104944	5.081	ppbV		100
42) bromodichloromethane	4.651	83	206495	5.217	ppbV		100
43) 1,4-dioxane	4.688	88	69912	5.198	ppbV		97
44) trichloroethene	4.688	130	164693	5.260	ppbV		99
45) 2,2,4-trimethylpentane	4.726	57	380947M6	5.035	ppbV		
46) heptane	4.858	43	121648	5.047	ppbV		99
47) cis-1,3-dichloropropene	5.113	75	181507	5.543	ppbV		98
48) 4-methyl-2-pentanone	5.145	43	162781M3	5.127	ppbV		
49) trans-1,3-dichloropropene	5.376	75	154693	5.998	ppbV		99
50) 1,1,2-trichloroethane	5.448	97	144165	5.152	ppbV		99
52) toluene	5.591	91	395453	5.285	ppbV		100
54) 2-hexanone	5.751	43	147481	5.167	ppbV	#	93
55) dibromochloromethane	5.783	129	229616	5.606	ppbV		100
56) 1,2-dibromoethane	5.895	107	229366	5.527	ppbV		100
57) tetrachloroethene	6.142	166	204328	5.327	ppbV		100
58) 1,1,1,2-tetrachloroethane	6.468	131	150651	4.780	ppbV	#	100
59) chlorobenzene	6.474	112	340995	5.336	ppbV		100
60) ethylbenzene	6.676	91	508855	5.311	ppbV		100
61) m+p-xylene	6.763	91	842043	10.939	ppbV		99
62) bromoform	6.763	173	221213	5.834	ppbV		100
63) styrene	6.937	104	333568	5.768	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.983	83	305942	5.625	ppbV		100
65) o-xylene	6.989	91	404060	5.414	ppbV		99
66) 1,2,3-Trichloropropane	7.047	75	190193	4.850	ppbV		100
68) isopropylbenzene	7.298	105	539569	5.029	ppbV		98
69) Bromobenzene	7.309	77	223118M6	4.965	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\R262660.D
Sub List : Default - All compounds listed

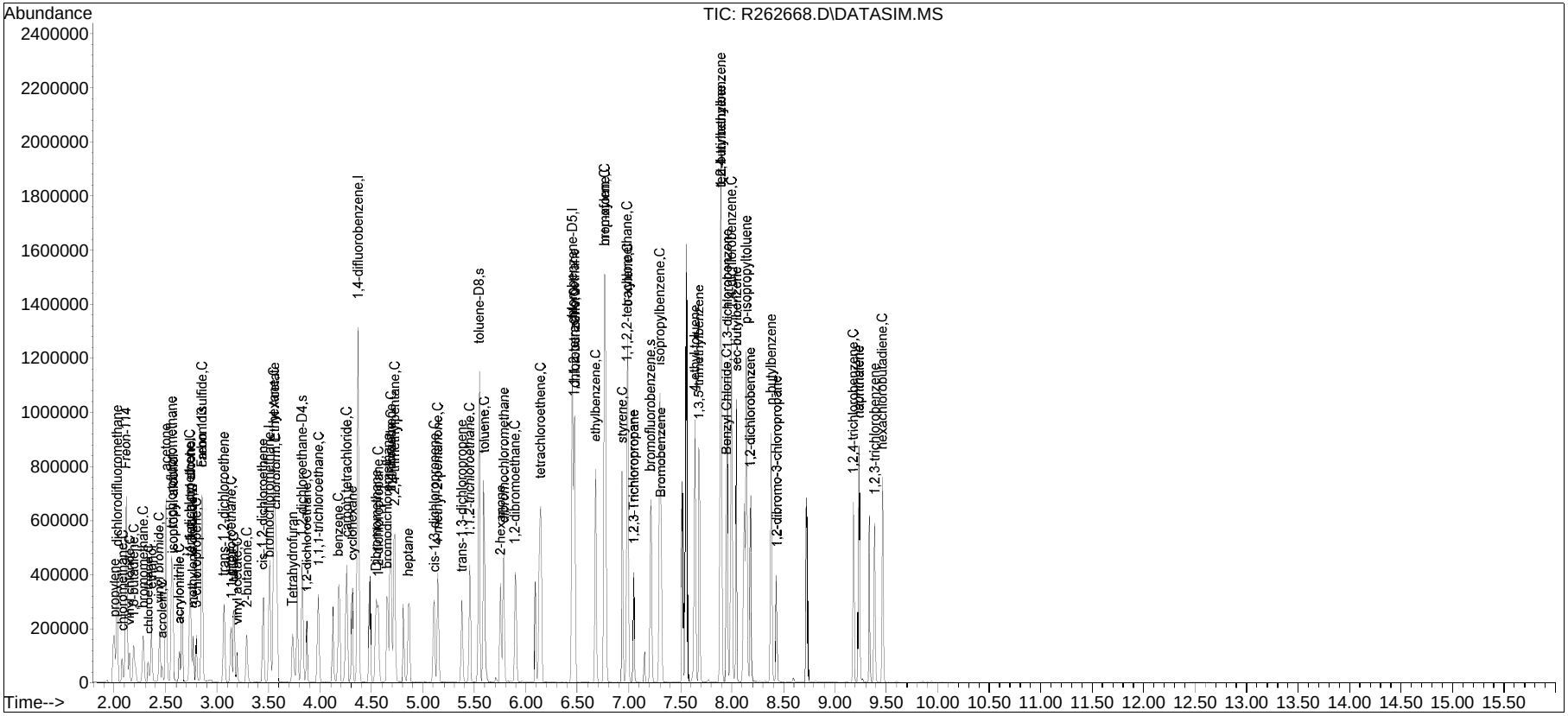
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	7.638	105	564388M6	5.554	ppbV	
71) 1,3,5-trimethylbenzene	7.677	105	484370	5.586	ppbV	99
72) tert-butylbenzene	7.893	119	489908	5.013	ppbV	99
73) 1,2,4-trimethylbenzene	7.893	105	512659	5.710	ppbV	94
74) Benzyl Chloride	7.949	91	327976	4.899	ppbV	100
75) 1,3-dichlorobenzene	7.957	146	398820M6	5.880	ppbV	
76) 1,4-dichlorobenzene	7.997	146	398057M6	5.714	ppbV	
77) sec-butylbenzene	8.045	105	640390	4.857	ppbV	99
78) p-isopropyltoluene	8.140	119	557784M6	5.023	ppbV	
79) 1,2-dichlorobenzene	8.180	146	386243	5.774	ppbV	98
80) n-butylbenzene	8.380	91	529651	5.137	ppbV	99
81) 1,2-dibromo-3-chloropr...	8.436	75	124665	4.933	ppbV	99
82) 1,2,4-trichlorobenzene	9.180	180	387457	6.554	ppbV	100
83) naphthalene	9.233	128	686287	4.871	ppbV	97
84) 1,2,3-trichlorobenzene	9.391	180	337475	5.709	ppbV	99
85) hexachlorobutadiene	9.461	225	305310	6.342	ppbV	99

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

Sub List : Default - All compounds listed4\0402SIM_I\R262660.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\
Data File : R262668.D
Acq On : 03 Apr 2025 04:10 pm
Operator : AIRLAB26:JJT
Sample : CTO15-SIMSTD5.0
Misc : WG2049330
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Apr 03 20:50:10 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0402SIM_I\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

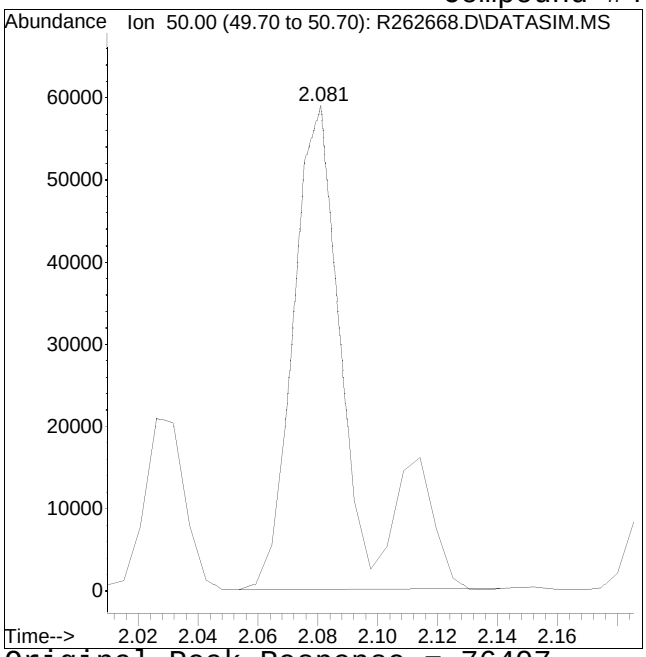


Manual Integration Report

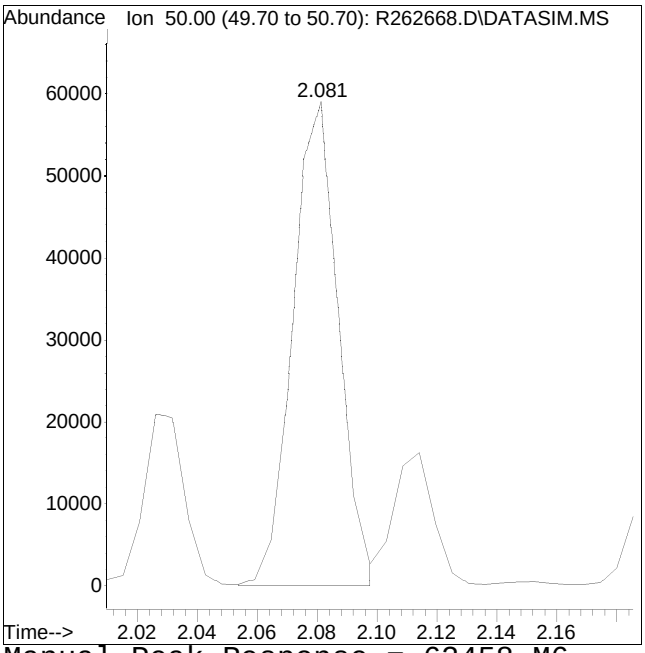
Data Path : X:\Airlab\Data\Airlab26\20Q
Data File : R262668.D
Date Inj'd : 4/3/2025 4:10 pm
Sample : CTO15-SIMSTD5.0

Method : TSIM26_250402.M
Operator : AIRLAB26:JJT
Instrument : Airlab26
Quant Date : 4/3/2025 8:50 pm

Compound #4: chloromethane



Original Peak Response = 76407



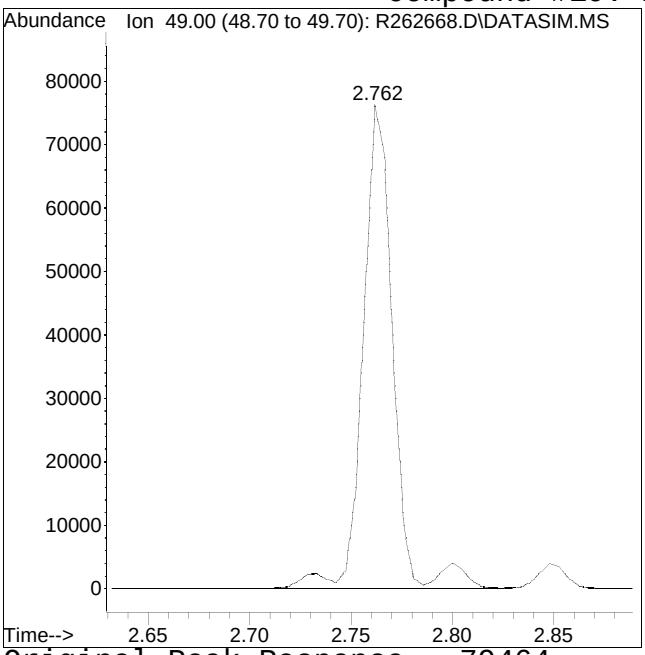
Manual Peak Response = 62458 M6

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

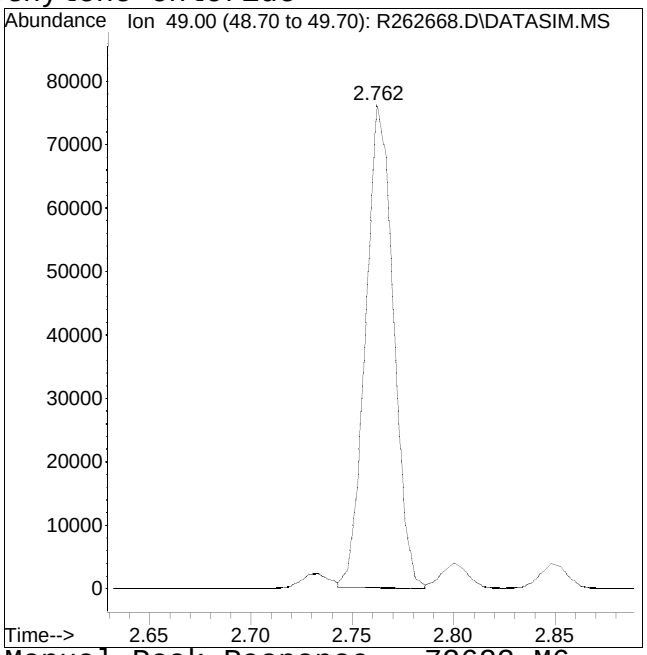
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #19: methylene chloride



Original Peak Response = 79464



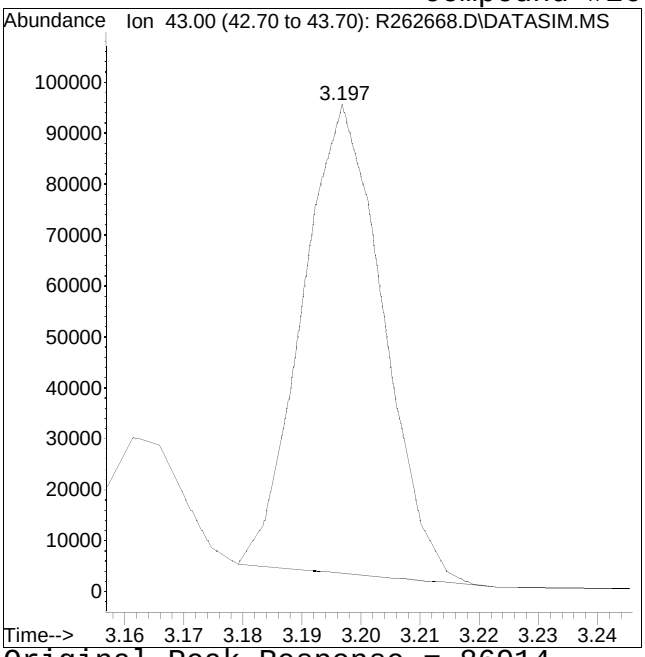
Manual Peak Response = 72622 M6

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

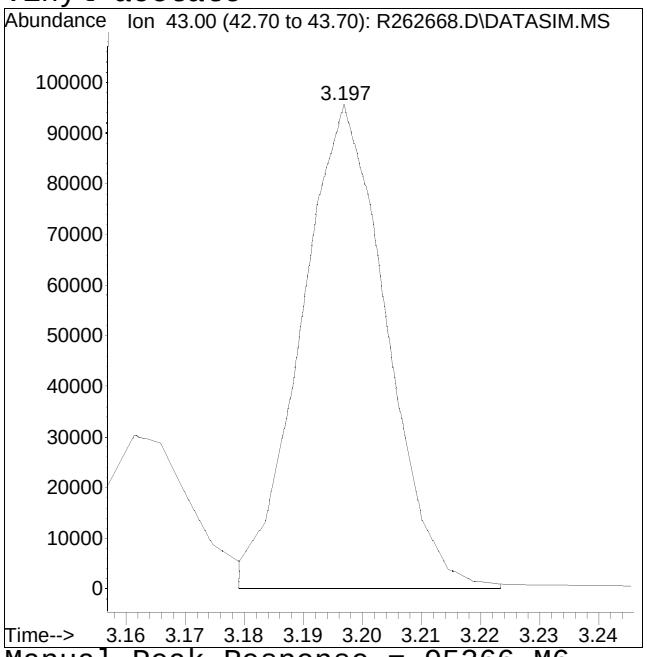
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #26: vinyl acetate



Original Peak Response = 86914



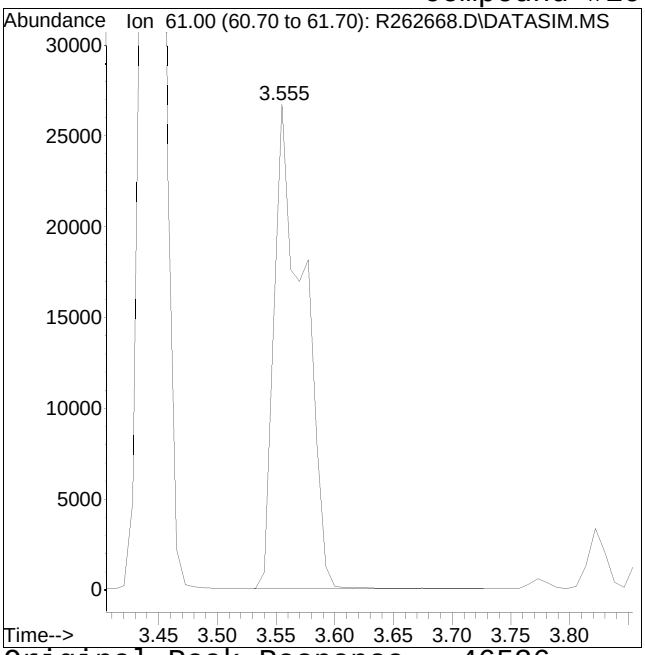
Manual Peak Response = 95266 M6

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

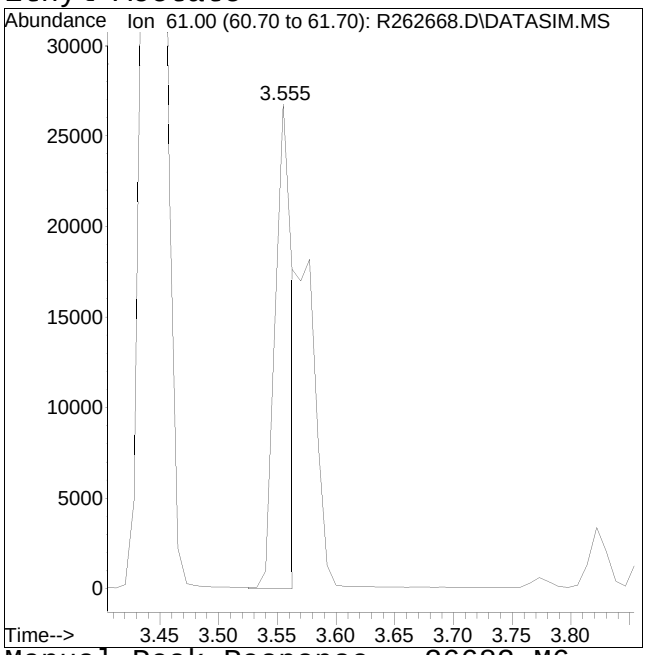
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #29: Ethyl Acetate



Original Peak Response = 46536



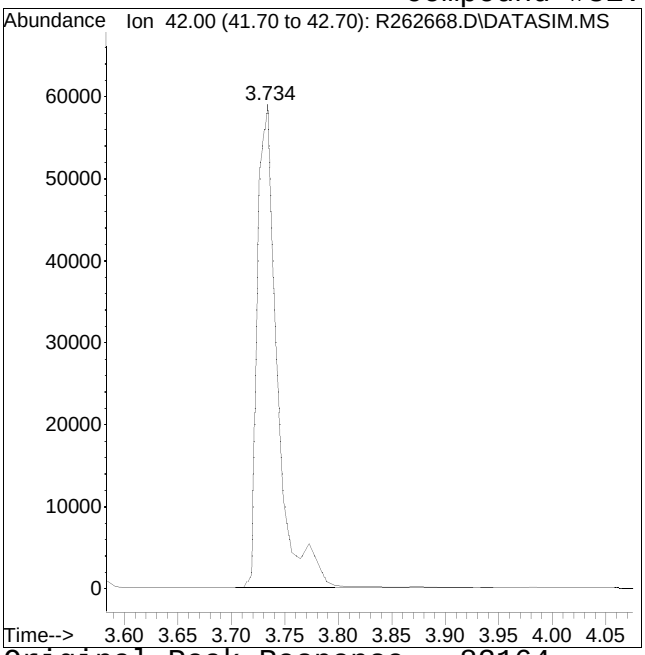
Manual Peak Response = 26682 M6

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

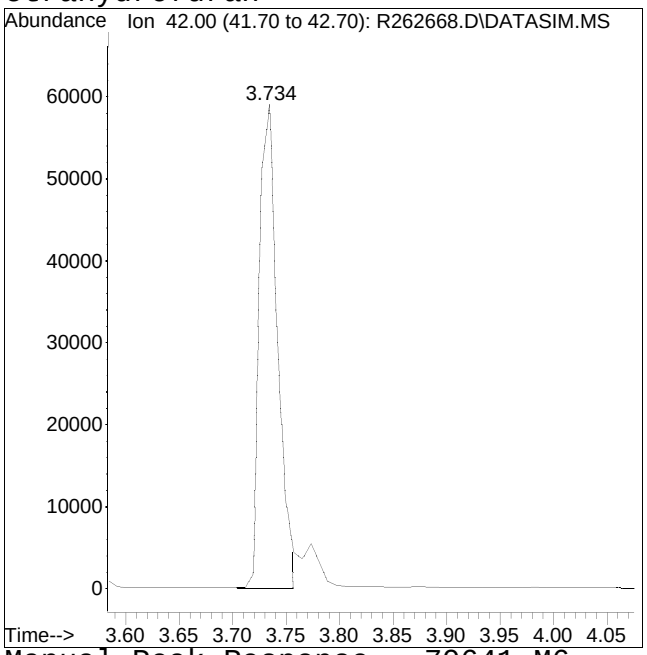
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 82164



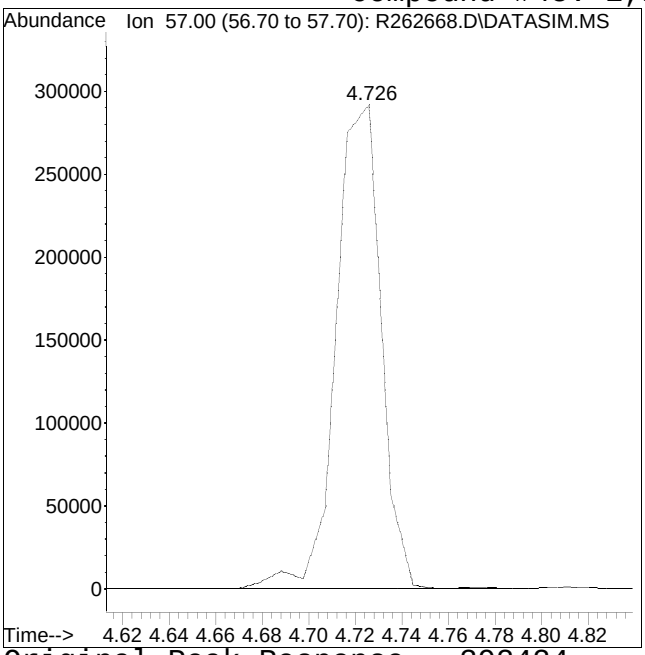
Manual Peak Response = 70641 M6

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

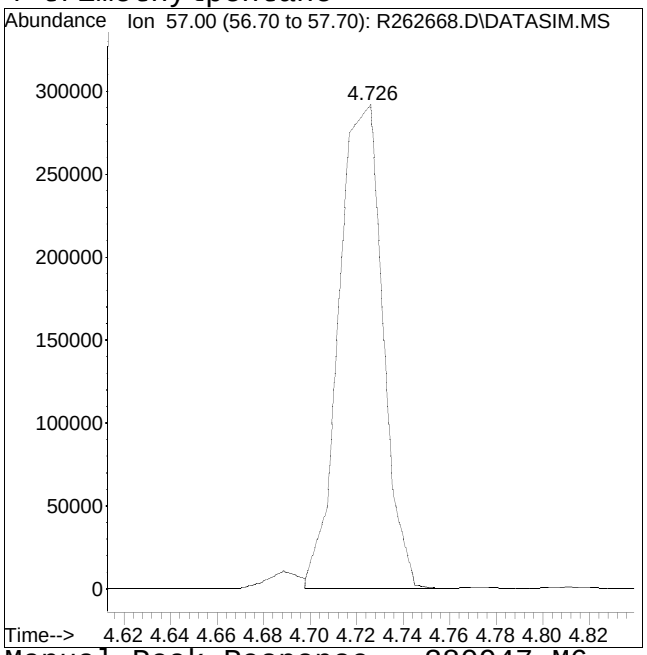
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 392424



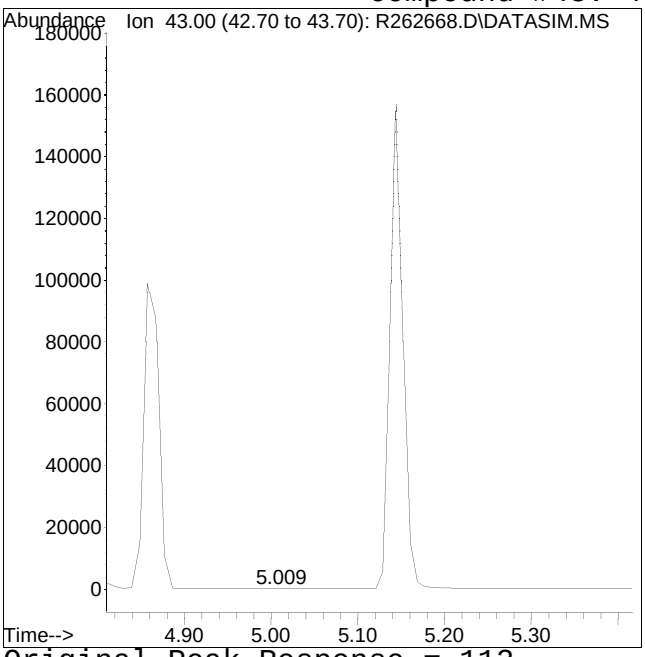
Manual Peak Response = 380947 M6

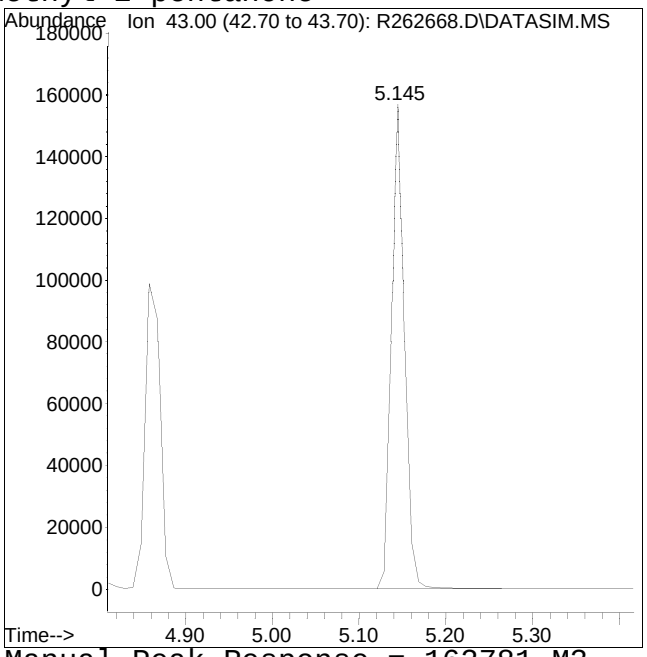
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #48: 4-methyl-2-pentanone



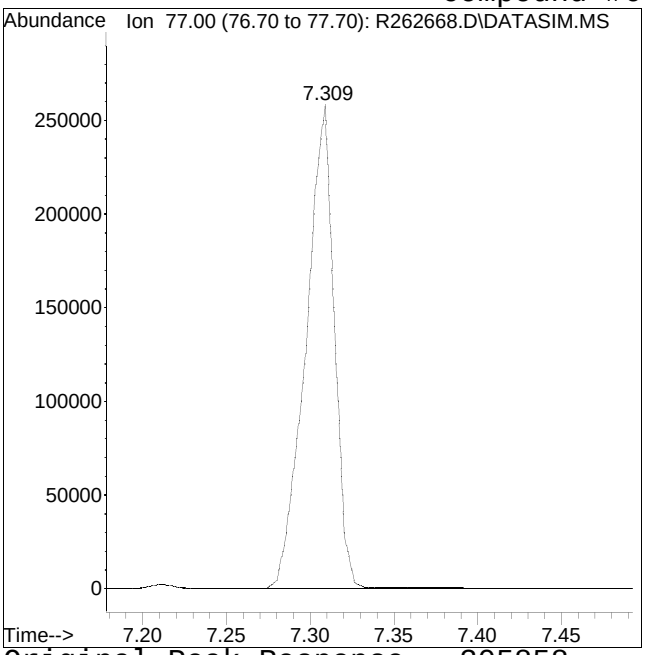


Original Peak Response = 112 Manual Peak Response = 162781 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

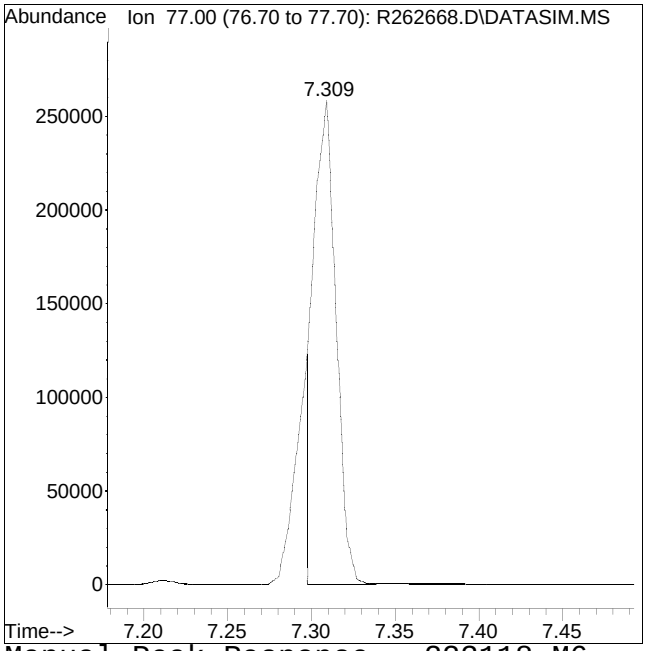
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #69: Bromobenzene



Original Peak Response = 305858



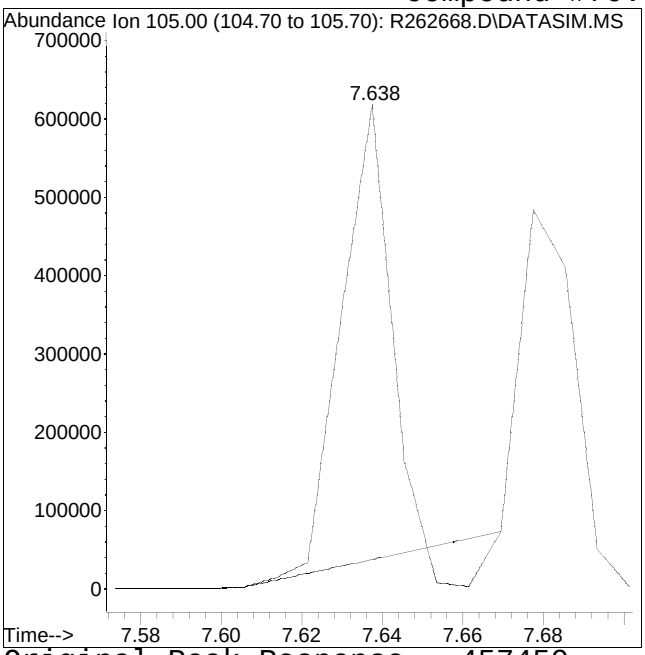
Manual Peak Response = 223118 M6

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

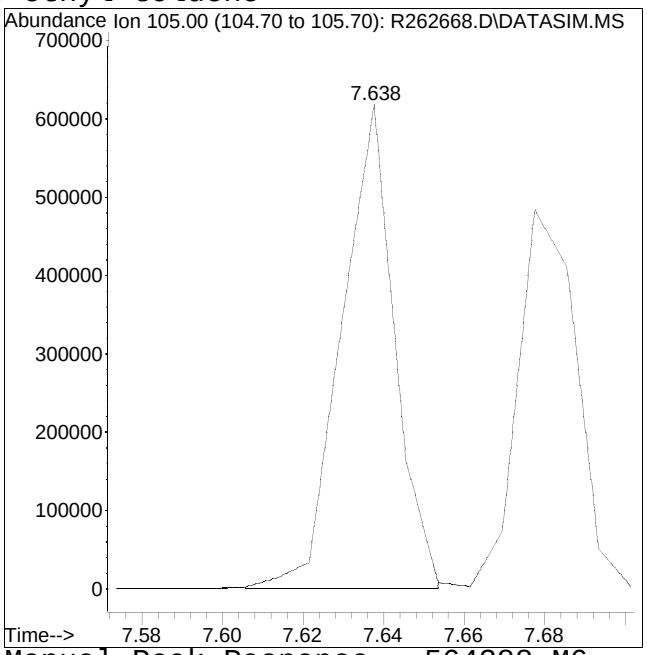
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 457450



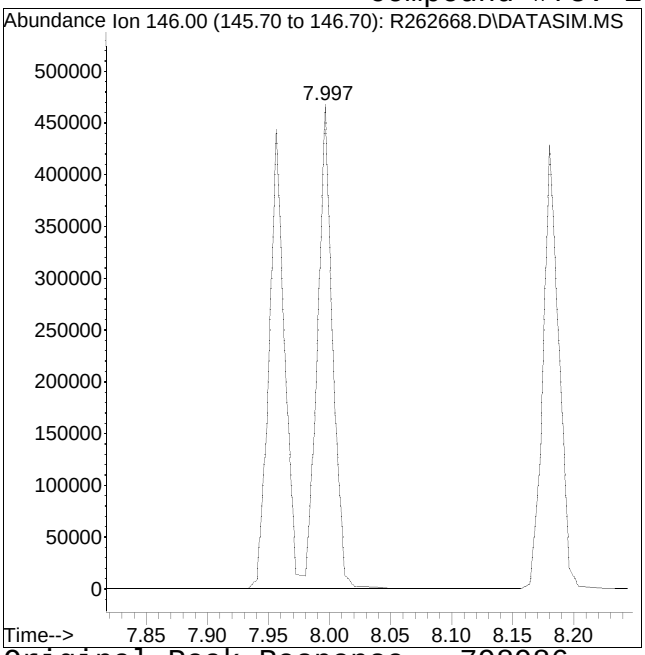
Manual Peak Response = 564388 M6

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

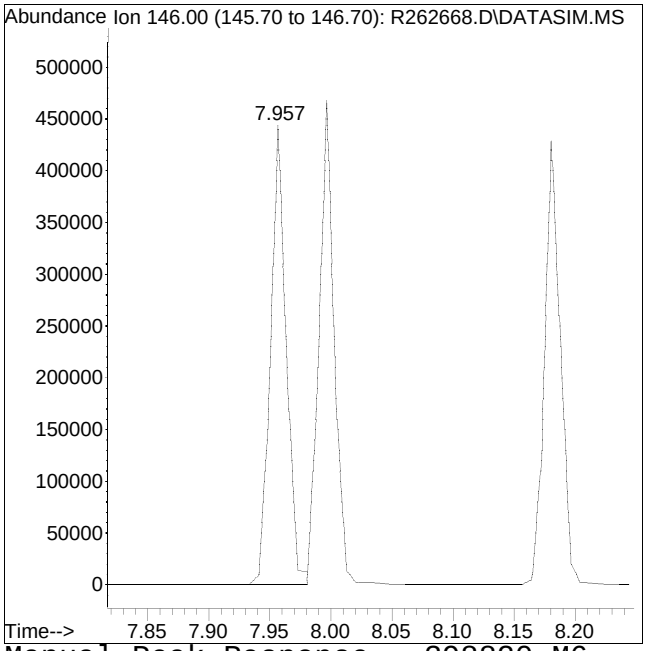
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 798986



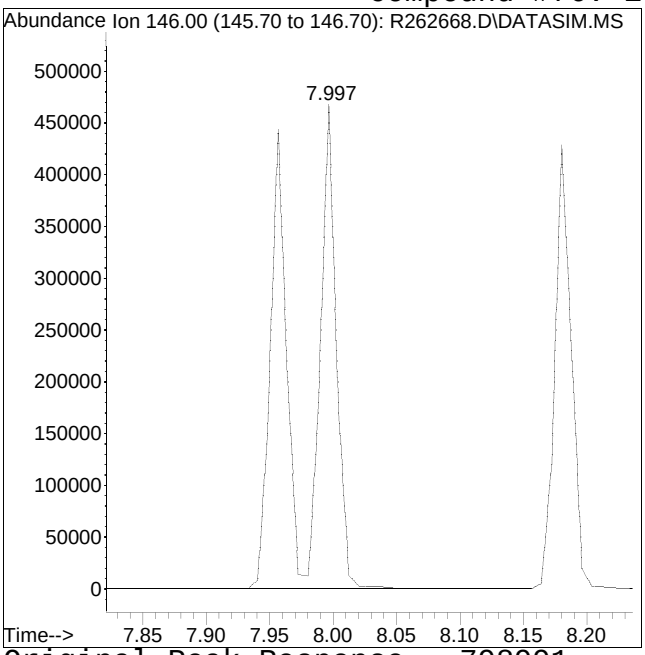
Manual Peak Response = 398820 M6

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

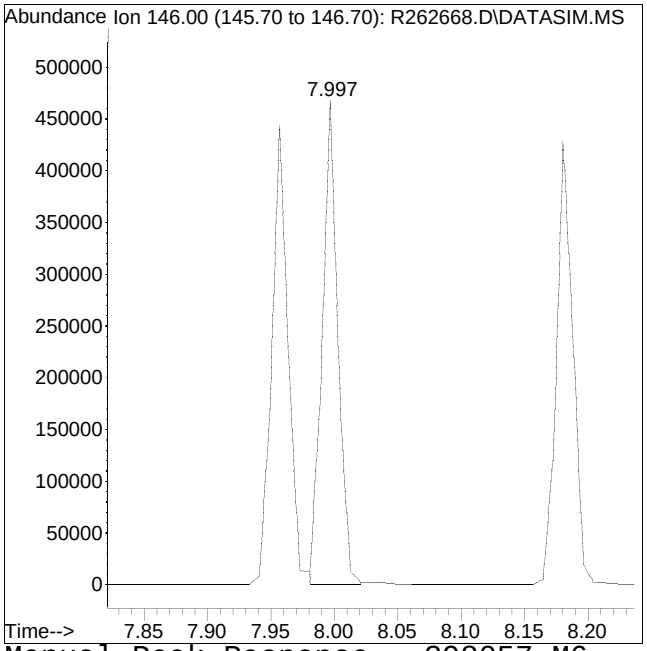
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 798991



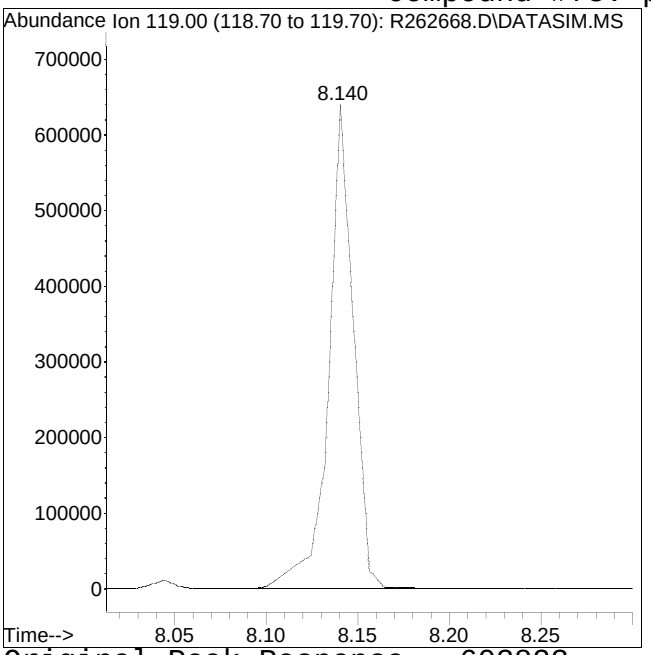
Manual Peak Response = 398057 M6

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

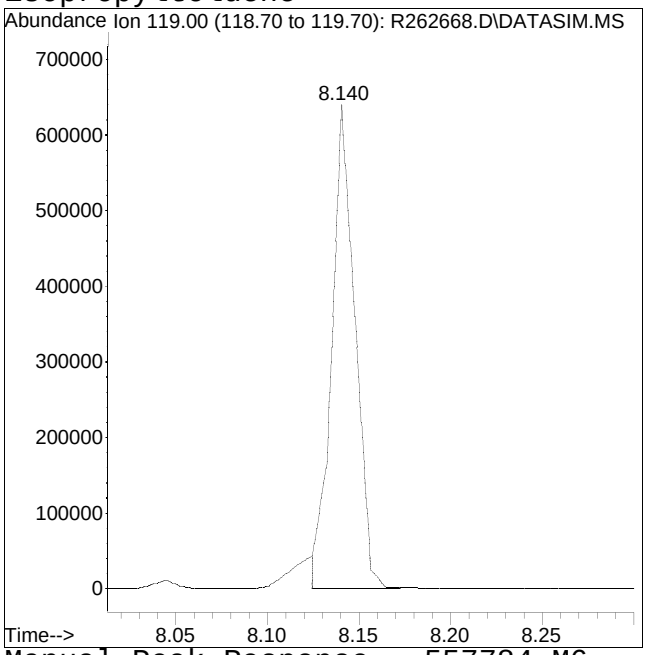
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R262668.D Operator : AIRLAB26:JJT
Date Inj'd : 4/3/2025 4:10 pm Instrument : Airlab26
Sample : CTO15-SIMSTD5.0 Quant Date : 4/3/2025 8:50 pm

Compound #78: p-isopropyltoluene



Original Peak Response = 603823



Manual Peak Response = 557784 M6

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

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC		Lab Number	: L2522632	
Project Name	: 458 E 99TH ST		Project Number	: 4078.0001Y000	
Instrument ID	: AIRLAB26		Calibration Date	: 04/22/25 14:09	
Lab File ID	: R263181		Init. Calib. Date(s)	: 04/03/25	04/03/25
Sample No	: WG2057230-2		Init. Calib. Times	: 01:01	06:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	83	0
propylene	0.557	0.504	-	9.5	30	81	0
dichlorodifluoromethane	2.223	2.391	-	-7.6	30	95	0
chloromethane	0.632	0.797	-	-26.1	30	113	0
Freon-114	2.327	2.728	-	-17.2	30	104	0
vinyl chloride	0.83	0.977	-	-17.7	30	107	0
1,3-butadiene	0.533	0.567	-	-6.4	30	95	0
bromomethane	0.869	0.993	-	-14.3	30	105	0
chloroethane	0.454	0.499	-	-9.9	30	99	0
ethanol	0.33	0.293	-	11.2	30	82	0
vinyl bromide	0.871	0.933	-	-7.1	30	95	0
acrolein	0.353	0.305	-	13.6	30	81	0
acetone	0.823	0.911	-	-10.7	30	100	0
trichlorofluoromethane	2.038	2.273	-	-11.5	30	100	0
isopropyl alcohol	0.963	0.92	-	4.5	30	89	0
acrylonitrile	0.561	0.543	-	3.2	30	88	0
1,1-dichloroethene	1.12	1.278	-	-14.1	30	103	0
tertiary butyl alcohol	1.435	1.419	-	1.1	30	86	0
methylene chloride	0.685	0.864	-	-26.1	30	112	0
3-chloropropene	0.654	0.706	-	-8	30	96	0
carbon disulfide	2.158	2.36	-	-9.4	30	97	0
Freon 113	1.774	1.99	-	-12.2	30	101	0
trans-1,2-dichloroethene	1.01	1.079	-	-6.8	30	96	0
1,1-dichloroethane	1.358	1.509	-	-11.1	30	101	0
MTBE	2.05	2.154	-	-5.1	30	95	0
vinyl acetate	1.405	1.18	-	16	30	78	0
2-butanone	1.594	1.588	-	0.4	30	85	0
cis-1,2-dichloroethene	1.151	1.167	-	-1.4	30	91	0
Ethyl Acetate	0.288	0.302	-	-4.9	30	93	0
chloroform	1.916	1.97	-	-2.8	30	93	0
Tetrahydrofuran	0.644	0.699	-	-8.5	30	97	0
1,2-dichloroethane	1.095	1.102	-	-0.6	30	92	0
1,4-difluorobenzene	1	1	-	0	30	81	0
hexane	0.277	0.28	-	-1.1	30	91	0
1,1,1-trichloroethane	0.456	0.473	-	-3.7	30	91	0
benzene	0.683	0.705	-	-3.2	30	91	0
carbon tetrachloride	0.444	0.47	-	-5.9	30	92	0
cyclohexane	0.274	0.278	-	-1.5	30	90	0
Dibromomethane	0.269	0.254	-	5.6	30	84	0
1,2-dichloropropane	0.23	0.242	-	-5.2	30	91	0
bromodichloromethane	0.441	0.49	-	-11.1	30	96	0
1,4-dioxane	0.15	0.163	-	-8.7	30	95	0
trichloroethene	0.349	0.362	-	-3.7	30	90	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC		Lab Number	: L2522632	
Project Name	: 458 E 99TH ST		Project Number	: 4078.0001Y000	
Instrument ID	: AIRLAB26		Calibration Date	: 04/22/25 14:09	
Lab File ID	: R263181		Init. Calib. Date(s)	: 04/03/25	04/03/25
Sample No	: WG2057230-2		Init. Calib. Times	: 01:01	06:04
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	0.842	0.909	-	-8	30	93	0
heptane	0.268	0.279	-	-4.1	30	90	0
cis-1,3-dichloropropene	0.365	0.405	-	-11	30	96	0
4-methyl-2-pentanone	0.353	0.371	-	-5.1	30	88	0
trans-1,3-dichloropropene	0.287	0.34	-	-18.5	30	100	0
1,1,2-trichloroethane	0.311	0.33	-	-6.1	30	92	0
chlorobenzene-D5	1	1	-	0	30	83	0
toluene	7.623	7.834	-	-2.8	30	92	0
2-hexanone	2.908	2.947	-	-1.3	30	86	0
dibromochloromethane	4.173	4.46	-	-6.9	30	92	0
1,2-dibromoethane	4.227	4.497	-	-6.4	30	95	0
tetrachloroethene	3.907	3.777	-	3.3	30	85	0
1,1,1,2-tetrachloroethane	3.21	2.885	-	10.1	30	78	0
chlorobenzene	6.51	6.724	-	-3.3	30	91	0
ethylbenzene	9.76	9.916	-	-1.6	30	90	0
m+p-xylene	7.842	8.178	-	-4.3	30	92	0
bromoform	3.863	4.086	-	-5.8	30	89	0
styrene	5.891	6.362	-	-8	30	90	0
1,1,2,2-tetrachloroethane	5.54	6.129	-	-10.6	30	96	0
o-xylene	7.603	7.941	-	-4.4	30	93	0
1,2,3-Trichloropropane	3.995	3.835	-	4	30	85	0
isopropylbenzene	10.93	10.437	-	4.5	30	84	0
Bromobenzene	4.577	4.399	-	3.9	30	85	0
4-ethyl toluene	10.352	10.996	-	-6.2	30	89	0
1,3,5-trimethylbenzene	8.833	9.358	-	-5.9	30	94	0
tert-butylbenzene	9.956	9.629	-	3.3	30	84	0
1,2,4-trimethylbenzene	9.146	9.911	-	-8.4	30	93	0
Benzyl Chloride	6.82	5.346	-	21.6	30	64	0
1,3-dichlorobenzene	6.91	7.634	-	-10.5	30	94	0
1,4-dichlorobenzene	7.097	7.653	-	-7.8	30	94	0
sec-butylbenzene	13.431	12.654	-	5.8	30	83	0
p-isopropyltoluene	11.312	11.937	-	-5.5	30	89	0
1,2-dichlorobenzene	6.814	7.246	-	-6.3	30	92	0
n-butylbenzene	10.504	10.517	-	-0.1	30	85	0
1,2-dibromo-3-chloropropan	2.574	2.464	-	4.3	30	81	0
1,2,4-trichlorobenzene	6.022	6.914	-	-14.8	30	94	0
naphthalene	14.354	12.643	-	11.9	30	74	0
1,2,3-trichlorobenzene	6.022	6.057	-	-0.6	30	71	0
hexachlorobutadiene	4.904	5.086	-	-3.7	30	86	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	83	0.00
2		propylene	0.557	0.504	9.5	81	0.00
3		dichlorodifluoromethane	2.223	2.391	-7.6	95	0.00
4	C	chloromethane	0.632	0.797	-26.1	113	0.00
5		Freon-114	2.327	2.728	-17.2	104	0.00
6	C	vinyl chloride	0.830	0.977	-17.7	107	0.00
7	C	1,3-butadiene	0.533	0.567	-6.4	95	0.00
8	C	bromomethane	0.869	0.993	-14.3	105	0.00
9	C	chloroethane	0.454	0.499	-9.9	99	0.00
10		ethanol	0.330	0.293	11.2	82	0.00
11	C	vinyl bromide	0.871	0.933	-7.1	95	0.00
12	C	acrolein	0.353	0.305	13.6	81	0.00
13		acetone	0.823	0.911	-10.7	100	0.00
14		trichlorofluoromethane	2.038	2.273	-11.5	100	0.00
15		isopropyl alcohol	0.963	0.920	4.5	89	0.00
16	C	acrylonitrile	0.561	0.543	3.2	88	0.00
17	C	1,1-dichloroethene	1.120	1.278	-14.1	103	0.00
18		tertiary butyl alcohol	1.435	1.419	1.1	86	0.00
19	C	methylene chloride	0.685	0.864	-26.1	112	0.00
20	C	3-chloropropene	0.654	0.706	-8.0	96	0.00
21	C	carbon disulfide	2.158	2.360	-9.4	97	0.00
22		Freon 113	1.774	1.990	-12.2	101	0.00
23		trans-1,2-dichloroethene	1.010	1.079	-6.8	96	0.00
24	C	1,1-dichloroethane	1.358	1.509	-11.1	101	0.00
25	C	MTBE	2.050	2.154	-5.1	95	0.00
26	C	vinyl acetate	1.405	1.180	16.0	78	0.00
27	C	2-butanone	1.594	1.588	0.4	85	0.00
28		cis-1,2-dichloroethene	1.151	1.167	-1.4	91	0.00
29		Ethyl Acetate	0.288	0.302	-4.9	93	0.00
30	C	chloroform	1.916	1.970	-2.8	93	0.00
31		Tetrahydrofuran	0.644	0.699	-8.5	97	0.00
32	C	1,2-dichloroethane	1.095	1.102	-0.6	92	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	81	0.00
34	C	hexane	0.277	0.280	-1.1	91	0.00
36	C	1,1,1-trichloroethane	0.456	0.473	-3.7	91	0.00
37	C	benzene	0.683	0.705	-3.2	91	0.00
38	C	carbon tetrachloride	0.444	0.470	-5.9	92	0.00
39		cyclohexane	0.274	0.278	-1.5	90	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	0.269	0.254	5.6	84	0.00
41	C	1,2-dichloropropane	0.230	0.242	-5.2	91	0.00
42		bromodichloromethane	0.441	0.490	-11.1	96	0.00
43	C	1,4-dioxane	0.150	0.163	-8.7	95	0.00
44	C	trichloroethene	0.349	0.362	-3.7	90	0.00
45	C	2,2,4-trimethylpentane	0.842	0.909	-8.0	93	0.00
46		heptane	0.268	0.279	-4.1	90	0.00
47	C	cis-1,3-dichloropropene	0.365	0.405	-11.0	96	0.00
48	C	4-methyl-2-pentanone	0.353	0.371	-5.1	88	0.00
49		trans-1,3-dichloropropene	0.287	0.340	-18.5	100	0.00
50	C	1,1,2-trichloroethane	0.311	0.330	-6.1	92	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	83	0.00
52	C	toluene	7.623	7.834	-2.8	92	0.00
54		2-hexanone	2.908	2.947	-1.3	86	0.00
55		dibromochloromethane	4.173	4.460	-6.9	92	0.00
56	C	1,2-dibromoethane	4.227	4.497	-6.4	95	0.00
57	C	tetrachloroethene	3.907	3.777	3.3	85	0.00
58		1,1,1,2-tetrachloroethane	3.210	2.885	10.1	78	0.00
59	C	chlorobenzene	6.510	6.724	-3.3	91	0.00
60	C	ethylbenzene	9.760	9.916	-1.6	90	0.00
61	C	m+p-xylene	7.842	8.178	-4.3	92	0.00
62	C	bromoform	3.863	4.086	-5.8	89	0.00
63	C	styrene	5.891	6.362	-8.0	90	0.00
64	C	1,1,2,2-tetrachloroethane	5.540	6.129	-10.6	96	0.00
65	C	o-xylene	7.603	7.941	-4.4	93	0.00
66		1,2,3-Trichloropropane	3.995	3.835	4.0	85	0.00
68	C	isopropylbenzene	10.930	10.437	4.5	84	0.00
69		Bromobenzene	4.577	4.399	3.9	85	0.00
70		4-ethyl toluene	10.352	10.996	-6.2	89	0.00
71		1,3,5-trimethylbenzene	8.833	9.358	-5.9	94	0.00
72		tert-butylbenzene	9.956	9.629	3.3	84	0.00
73		1,2,4-trimethylbenzene	9.146	9.911	-8.4	93	0.00
74	C	Benzyl Chloride	6.820	5.346	21.6	64	0.00
75		1,3-dichlorobenzene	6.910	7.634	-10.5	94	0.00
76	C	1,4-dichlorobenzene	7.097	7.653	-7.8	94	0.00
77		sec-butylbenzene	13.431	12.654	5.8	83	0.00
78		p-isopropyltoluene	11.312	11.937	-5.5	89	0.00
79		1,2-dichlorobenzene	6.814	7.246	-6.3	92	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	10.504	10.517	-0.1	85	0.00
81	1,2-dibromo-3-chloropropane	2.574	2.464	4.3	81	0.00
82 C	1,2,4-trichlorobenzene	6.022	6.914	-14.8	94	0.00
83	naphthalene	14.354	12.643	11.9	74	0.00
84	1,2,3-trichlorobenzene	6.022	6.057	-0.6	71	0.00
85 C	hexachlorobutadiene	4.904	5.086	-3.7	86	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\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	3.507	49	177350	10.000	ppbV		0.00
Standard Area = 177350			Recovery = 100.00%				
33) 1,4-difluorobenzene	4.365	114	751175	10.000	ppbV		0.00
Standard Area = 751175			Recovery = 100.00%				
51) chlorobenzene-D5	6.453	54	87101	10.000	ppbV		0.00
Standard Area = 87101			Recovery = 100.00%				
System Monitoring Compounds							
Target Compounds							Qvalue
2) propylene	1.999	41	44704M6	4.524	ppbV		
3) dichlorodifluoromethane	2.021	85	212046	5.379	ppbV		100
4) chloromethane	2.070	50	70678	6.308	ppbV		89
5) Freon-114	2.109	85	241902	5.861	ppbV		97
6) vinyl chloride	2.141	62	86642	5.885	ppbV		100
7) 1,3-butadiene	2.185	54	50271	5.322	ppbV	#	26
8) bromomethane	2.273	94	88086	5.719	ppbV		99
9) chloroethane	2.328	64	44220	5.491	ppbV		97
10) ethanol	2.356	31	130088	22.257	ppbV		98
11) vinyl bromide	2.434	106	82700	5.355	ppbV		100
12) acrolein	2.468	56	27012	4.315	ppbV		93
13) acetone	2.502	43	403767	27.657	ppbV		97
14) trichlorofluoromethane	2.553	101	201556	5.576	ppbV		100
15) isopropyl alcohol	2.570	45	204052	11.952	ppbV		100
16) acrylonitrile	2.632	53	48182	4.844	ppbV		96
17) 1,1-dichloroethene	2.728	61	113305	5.704	ppbV		100
18) tertiary butyl alcohol	2.738	59	125872	4.947	ppbV		98
19) methylene chloride	2.762	49	76634	6.307	ppbV		90
20) 3-chloropropene	2.800	41	62578	5.392	ppbV		98
21) carbon disulfide	2.848	76	209281	5.469	ppbV		100
22) Freon 113	2.848	101	176471	5.608	ppbV		98
23) trans-1,2-dichloroethene	3.064	61	95716	5.342	ppbV		99
24) 1,1-dichloroethane	3.135	63	133789	5.554	ppbV		100
25) MTBE	3.161	73	191025	5.254	ppbV	#	37
26) vinyl acetate	3.197	43	104612	4.199	ppbV	#	91
27) 2-butanone	3.281	43	140819	4.982	ppbV		98
28) cis-1,2-dichloroethene	3.447	61	103450	5.066	ppbV		100
29) Ethyl Acetate	3.552	61	26822M6	5.258	ppbV		
30) chloroform	3.567	83	174693	5.140	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	3.731	42	61999M6	5.424	ppbV		
32) 1,2-dichloroethane	3.868	62	97749	5.034	ppbV	#	96
34) hexane	3.544	57	105118	5.044	ppbV		95
36) 1,1,1-trichloroethane	3.982	97	177669	5.185	ppbV		99
37) benzene	4.186	78	264739	5.157	ppbV		99
38) carbon tetrachloride	4.252	117	176574	5.296	ppbV		98
39) cyclohexane	4.308	56	104434	5.067	ppbV	#	80
40) Dibromomethane	4.544	93	95341	4.711	ppbV	#	92
41) 1,2-dichloropropane	4.563	63	90937	5.266	ppbV		99
42) bromodichloromethane	4.657	83	184015	5.560	ppbV		98
43) 1,4-dioxane	4.685	88	61305	5.451	ppbV		94
44) trichloroethene	4.685	130	136067	5.197	ppbV		99
45) 2,2,4-trimethylpentane	4.723	57	341559	5.399	ppbV		99
46) heptane	4.864	43	104945	5.207	ppbV		98
47) cis-1,3-dichloropropene	5.111	75	151943	5.549	ppbV		99
48) 4-methyl-2-pentanone	5.143	43	139351	5.249	ppbV		100
49) trans-1,3-dichloropropene	5.374	75	127567	5.915	ppbV		100
50) 1,1,2-trichloroethane	5.446	97	124054	5.302	ppbV		99
52) toluene	5.590	91	341173	5.138	ppbV		100
54) 2-hexanone	5.749	43	128334	5.067	ppbV	#	89
55) dibromochloromethane	5.781	129	194238	5.344	ppbV		100
56) 1,2-dibromoethane	5.901	107	195854M4	5.319	ppbV		
57) tetrachloroethene	6.149	166	164506	4.834	ppbV		97
58) 1,1,1,2-tetrachloroethane	6.469	131	125634	4.493	ppbV	#	100
59) chlorobenzene	6.474	112	292831	5.164	ppbV		100
60) ethylbenzene	6.676	91	431862	5.080	ppbV		99
61) m+p-xylene	6.764	91	712288	10.428	ppbV		99
62) bromoform	6.764	173	177961	5.290	ppbV		99
63) styrene	6.937	104	277060	5.399	ppbV		99
64) 1,1,2,2-tetrachloroethane	6.984	83	266916	5.531	ppbV		100
65) o-xylene	6.990	91	345830	5.222	ppbV		100
66) 1,2,3-Trichloropropane	7.048	75	167030	4.800	ppbV		99
68) isopropylbenzene	7.298	105	454550	4.774	ppbV		100
69) Bromobenzene	7.310	77	191576M6	4.805	ppbV		
70) 4-ethyl toluene	7.638	105	478884M3	5.311	ppbV		
71) 1,3,5-trimethylbenzene	7.678	105	407541	5.297	ppbV		99
72) tert-butylbenzene	7.894	119	419338	4.836	ppbV		99
73) 1,2,4-trimethylbenzene	7.894	105	431620	5.418	ppbV		94
74) Benzyl Chloride	7.957	91	232800	3.919	ppbV		99
75) 1,3-dichlorobenzene	7.957	146	332443M3	5.524	ppbV		

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : Default-LCS-AP2 - All compounds listed

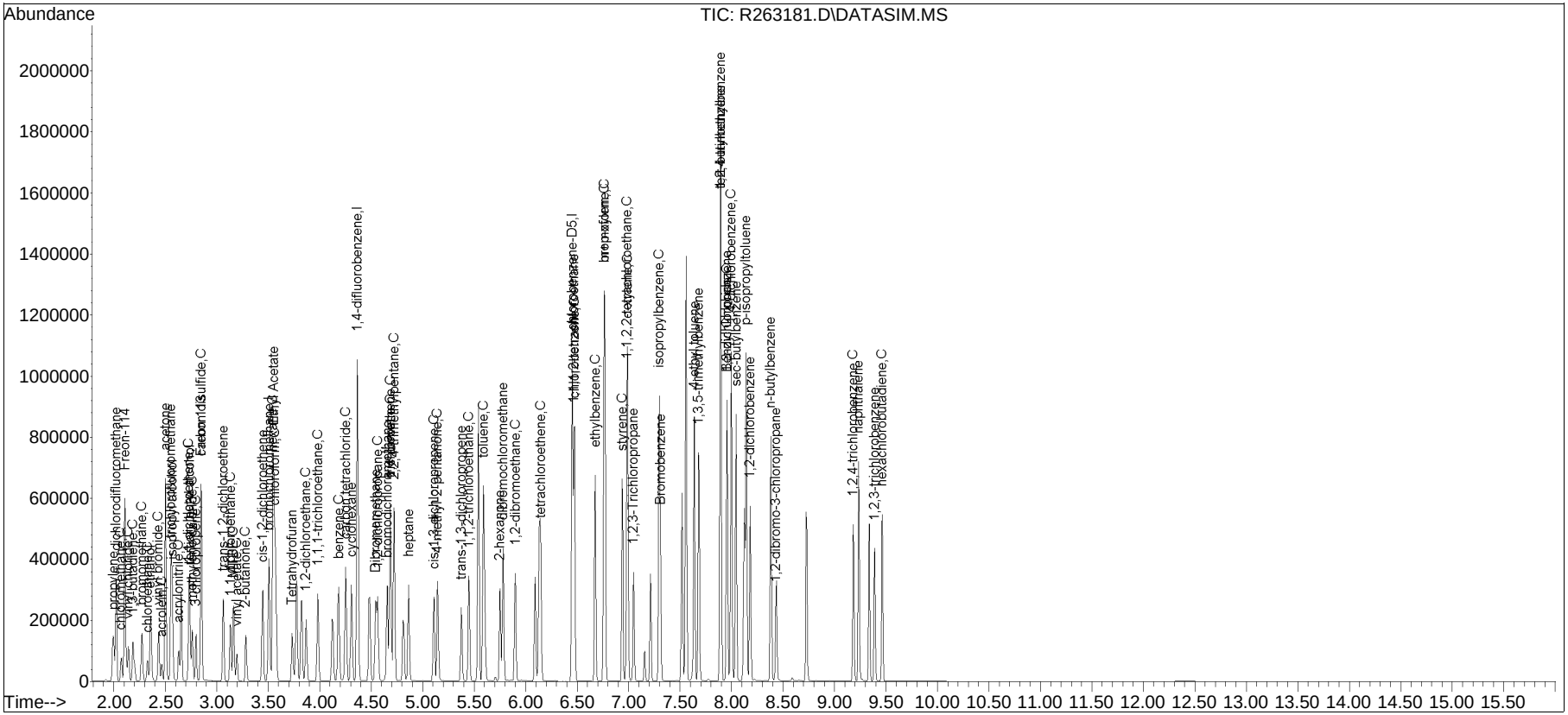
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	7.997	146	333304M3	5.392	ppbV	
77) sec-butylbenzene	8.045	105	551108	4.711	ppbV	100
78) p-isopropyltoluene	8.141	119	519878	5.276	ppbV	97
79) 1,2-dichlorobenzene	8.181	146	315583	5.317	ppbV	98
80) n-butylbenzene	8.380	91	458034	5.007	ppbV	100
81) 1,2-dibromo-3-chloropr...	8.428	75	107316	4.786	ppbV	96
82) 1,2,4-trichlorobenzene	9.181	180	301122	5.741	ppbV	100
83) naphthalene	9.233	128	550621	4.404	ppbV	97
84) 1,2,3-trichlorobenzene	9.391	180	263802	5.029	ppbV	100
85) hexachlorobutadiene	9.461	225	221488	5.185	ppbV	95

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

Sub List : Default-LCS-AP2 - All compounds listedM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-2,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

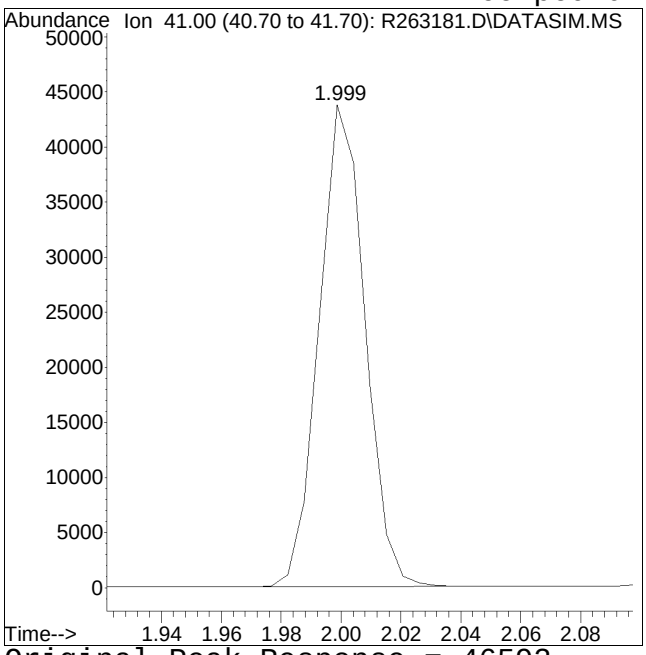
Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration



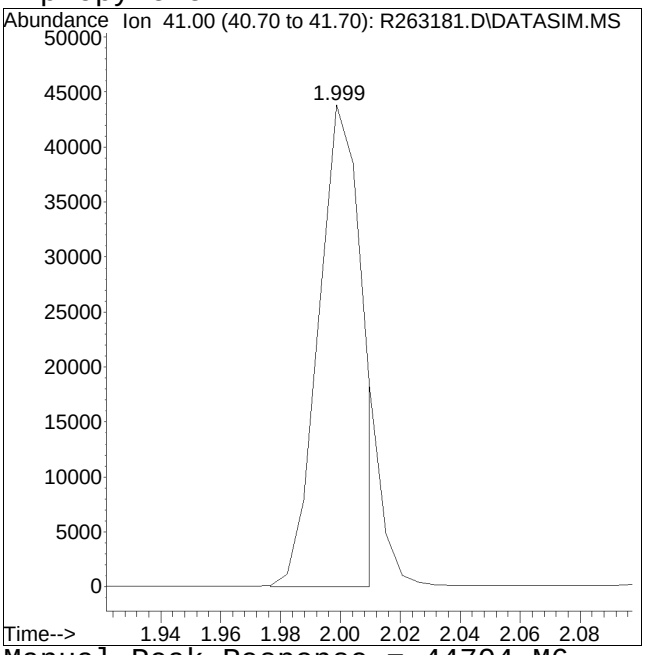
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #2: propylene



Original Peak Response = 46592



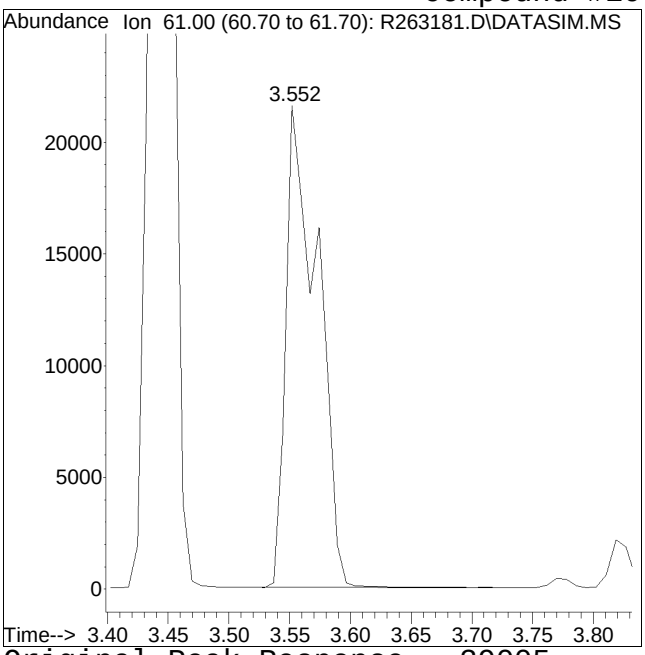
Manual Peak Response = 44704 M6

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

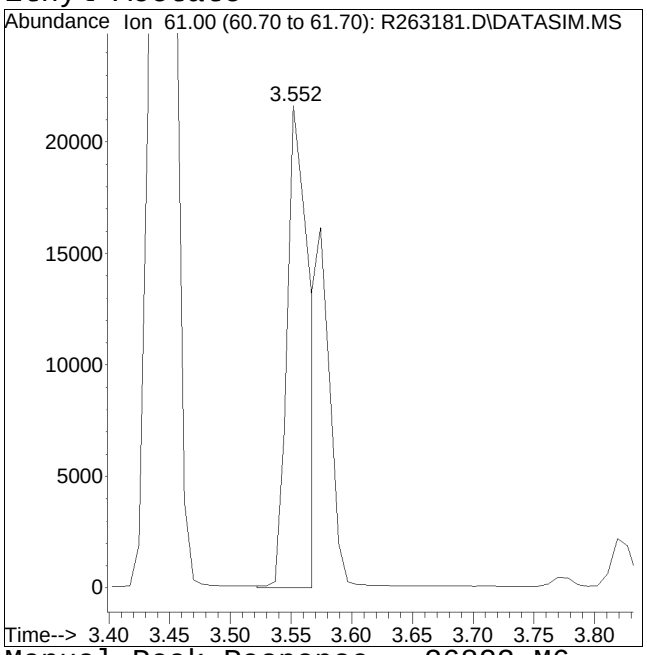
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #29: Ethyl Acetate



Original Peak Response = 39005



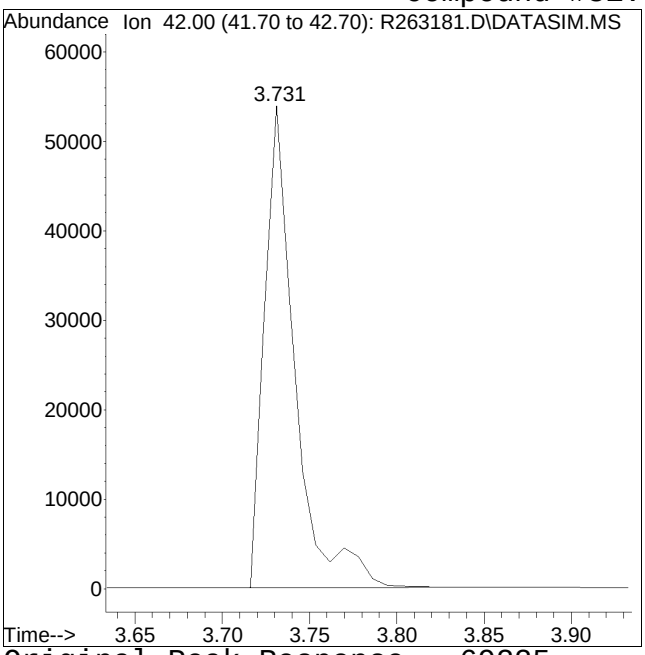
Manual Peak Response = 26822 M6

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

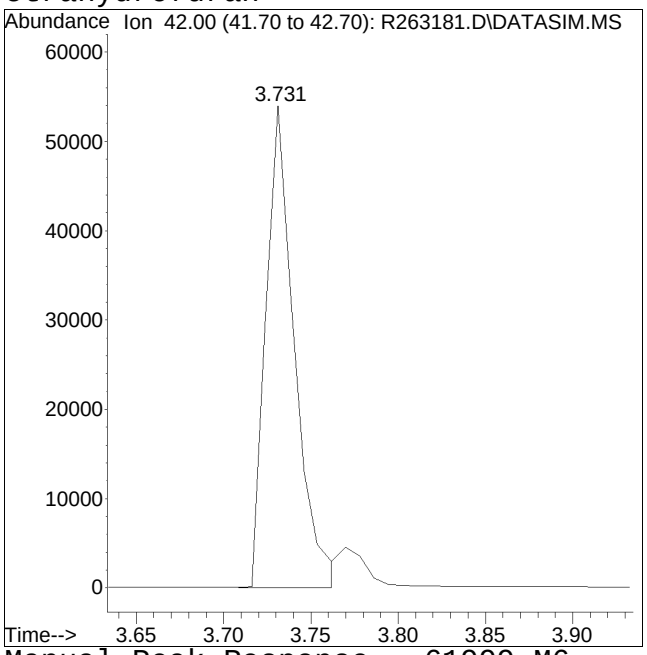
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 69225



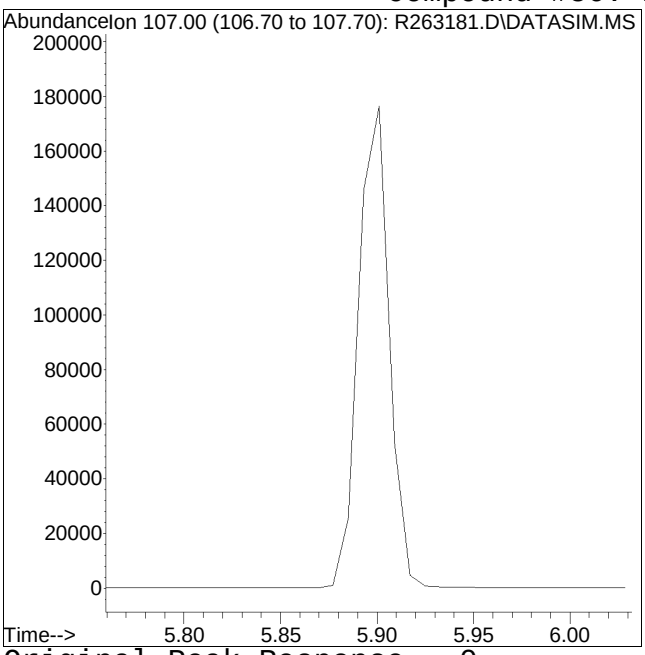
Manual Peak Response = 61999 M6

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

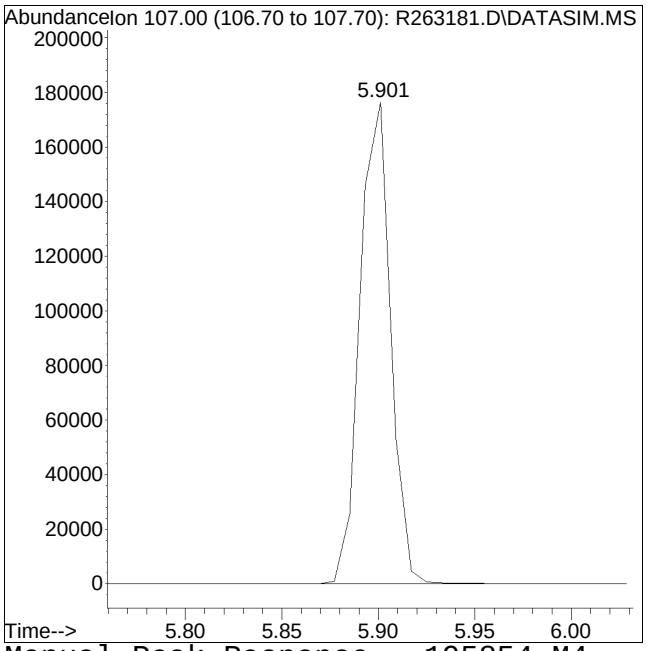
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #56: 1,2-dibromoethane



Original Peak Response = 0



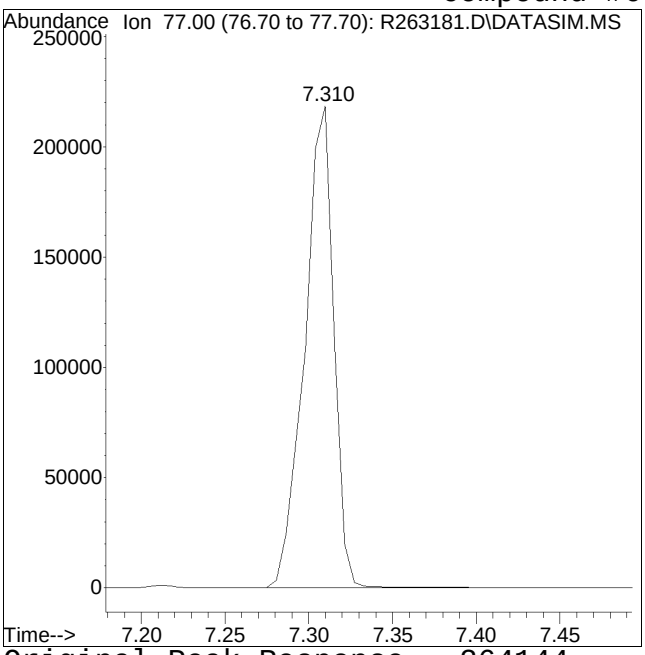
Manual Peak Response = 195854 M4

M4 = Poor automated baseline construction.

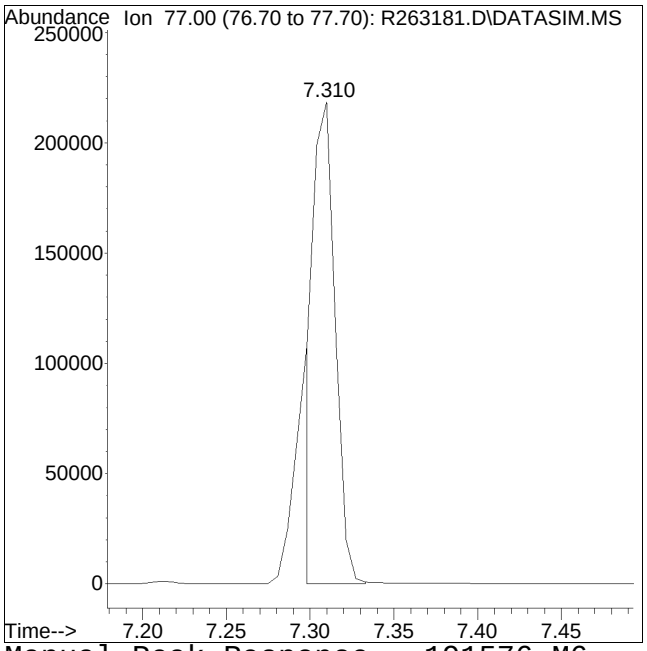
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #69: Bromobenzene



Original Peak Response = 264144



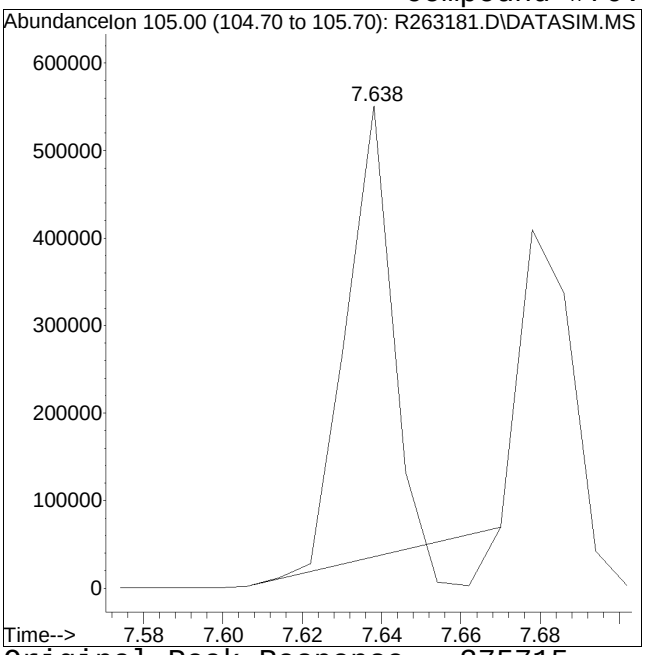
Manual Peak Response = 191576 M6

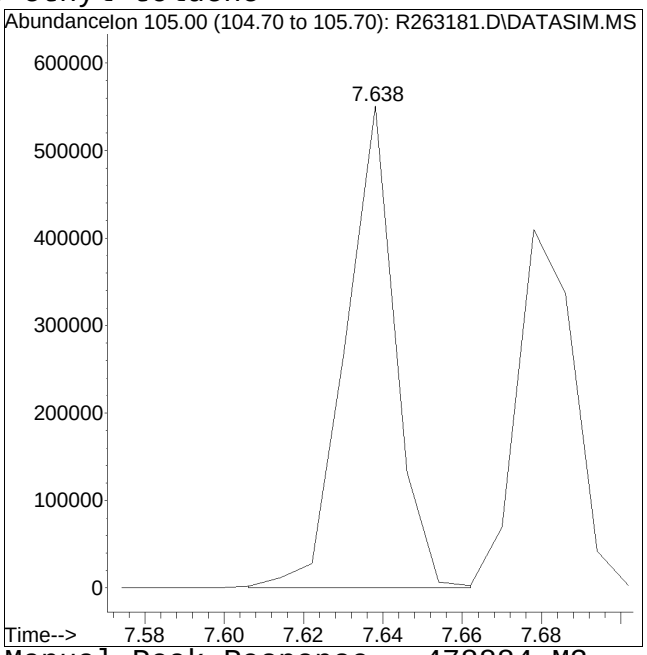
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #70: 4-ethyl toluene



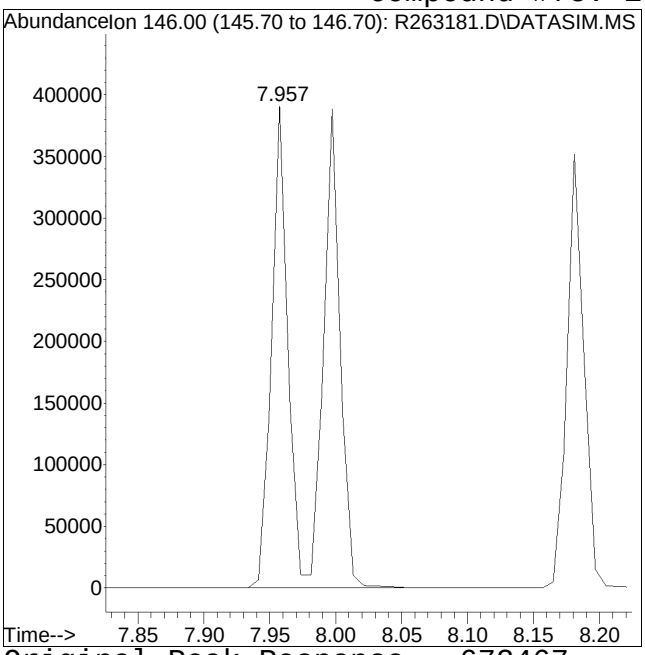


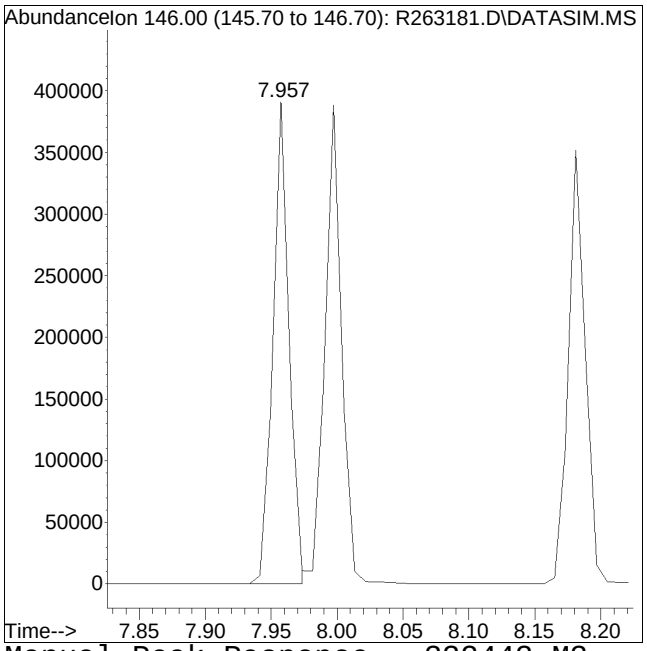
Original Peak Response = 375715 Manual Peak Response = 478884 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #75: 1,3-dichlorobenzene





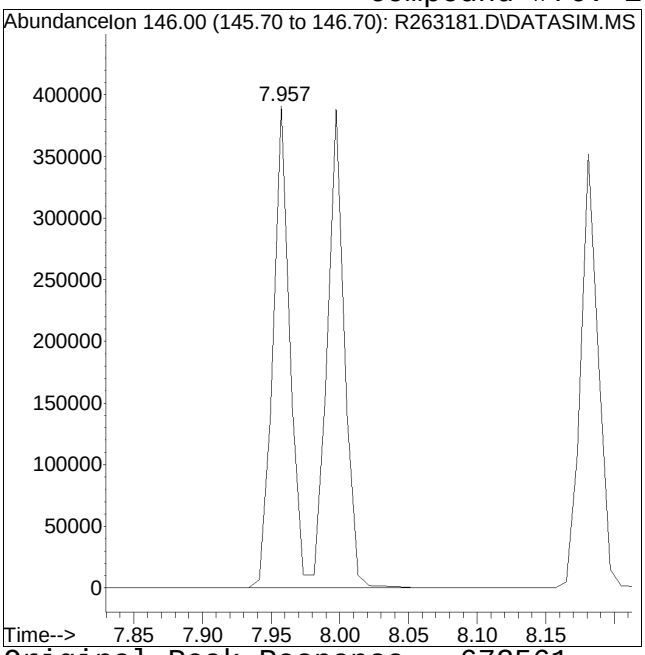
Original Peak Response = 672467 Manual Peak Response = 332443 M3

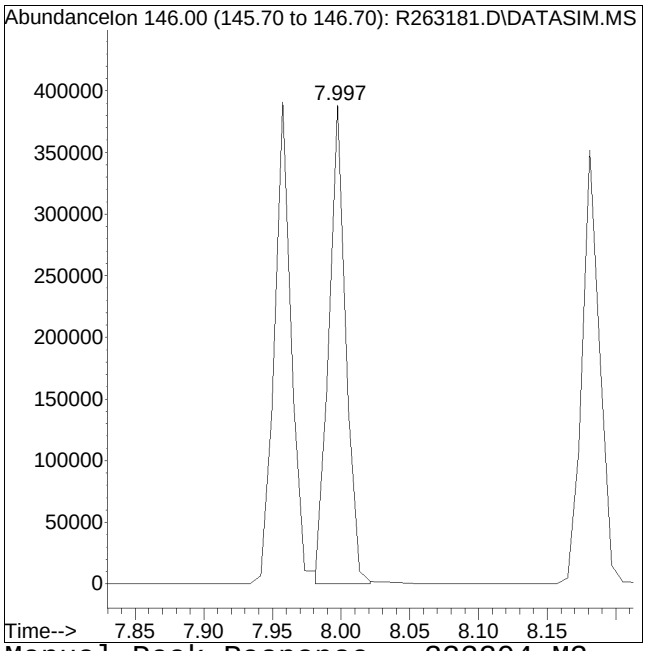
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263181.D Operator : AIRLAB26:KJD
Date Inj'd : 4/22/2025 2:09 pm Instrument : Airlab26
Sample : WG2057230-2,3,250,250 Quant Date : 4/22/2025 2:35 pm

Compound #76: 1,4-dichlorobenzene





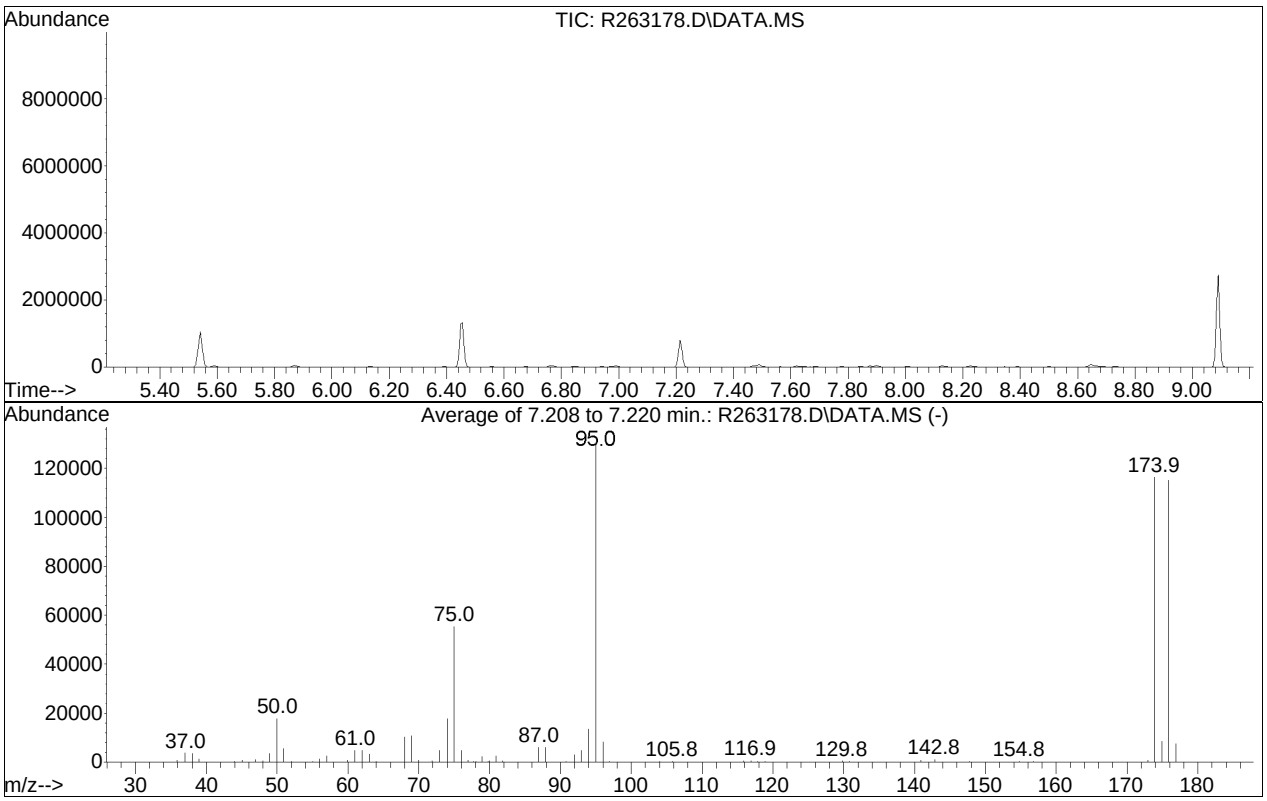
Original Peak Response = 672561 Manual Peak Response = 333304 M3

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\04\0422SIM\
Data File : R263178.D
Acq On : 22 Apr 2025 12:15 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-1,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 1 Sample Multiplier: 1

Integration File: rteint.p

Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Thu Apr 03 14:23:37 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	13.6	17787	PASS
75	95	30	66	42.5	55416	PASS
95	95	100	100	100.0	130531	PASS
96	95	5	9	6.5	8425	PASS
173	174	0.00	2	0.7	805	PASS
174	95	50	120	89.2	116432	PASS
175	174	4	9	7.4	8590	PASS
176	174	93	101	99.0	115283	PASS
177	176	5	9	6.4	7405	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263183.D
Acq On : 22 Apr 2025 04:06 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-4,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 07:14:43 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : Default-LCS-AP2 - All compounds listed

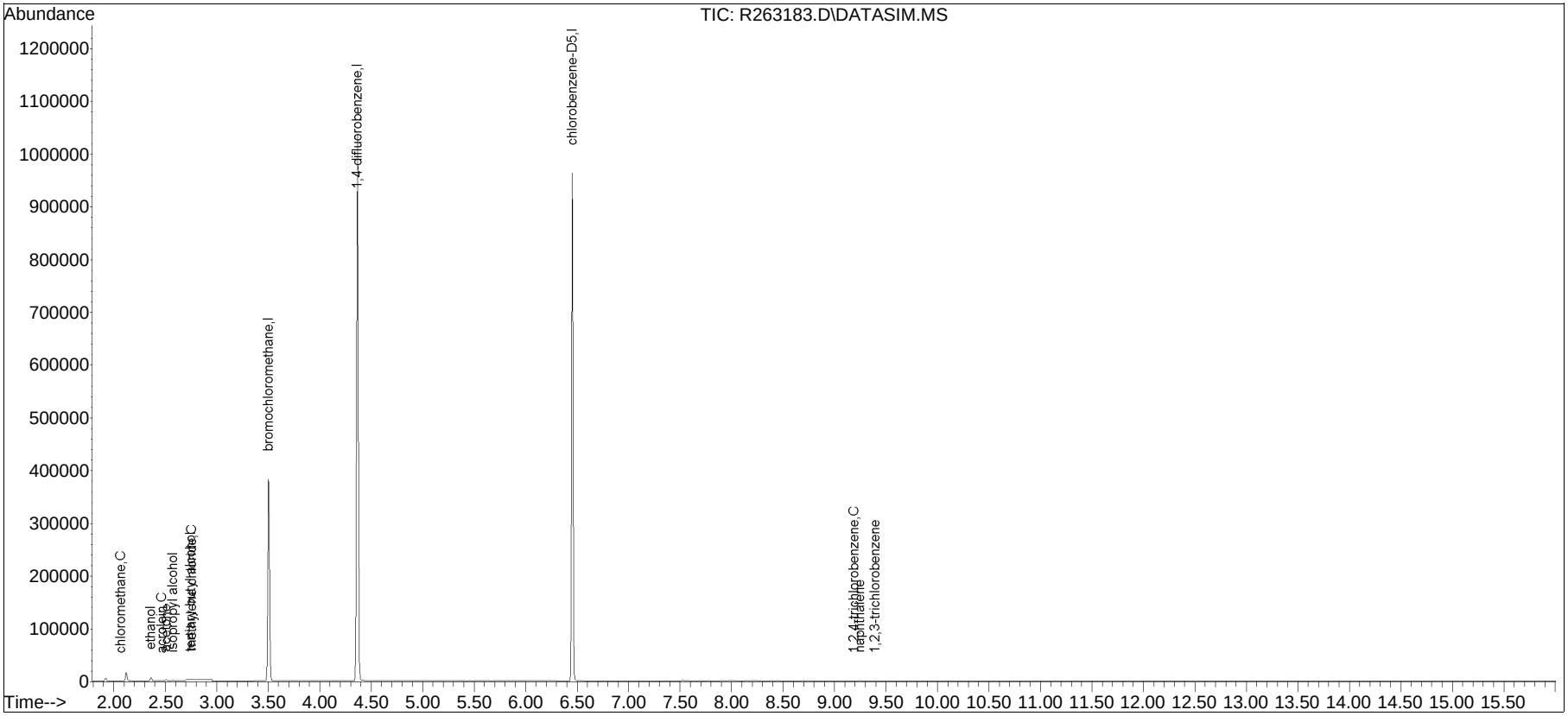
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	175199	10.000	ppbV	0.00
Standard Area = 177350			Recovery = 98.79%			
33) 1,4-difluorobenzene	4.368	114	722647	10.000	ppbV	0.00
Standard Area = 751175			Recovery = 96.20%			
51) chlorobenzene-D5	6.452	54	85437	10.000	ppbV	0.00
Standard Area = 87101			Recovery = 98.09%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0		N.D.	
17) 1,1-dichloroethene	0.000		0		N.D.	
28) cis-1,2-dichloroethene	0.000		0		N.D.	
36) 1,1,1-trichloroethane	0.000		0		N.D.	
38) carbon tetrachloride	0.000		0		N.D.	
44) trichloroethene	0.000		0		N.D.	
57) tetrachloroethene	6.150		0		N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listedM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263183.D
Acq On : 22 Apr 2025 04:06 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-4,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 1 Sample Multiplier: 1

Quant Time: Apr 23 07:14:43 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration



Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-3,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	83	0.00
2		propylene	5.000	4.524	9.5	81	0.00
3		dichlorodifluoromethane	5.000	5.379	-7.6	95	0.00
4	C	chloromethane	5.000	6.308	-26.2	113	0.00
5		Freon-114	5.000	5.861	-17.2	104	0.00
6	C	vinyl chloride	5.000	5.885	-17.7	107	0.00
7	C	1,3-butadiene	5.000	5.322	-6.4	95	0.00
8	C	bromomethane	5.000	5.719	-14.4	105	0.00
9	C	chloroethane	5.000	5.491	-9.8	99	0.00
10		ethanol	25.000	22.257	11.0	82	0.00
11	C	vinyl bromide	5.000	5.355	-7.1	95	0.00
12	C	acrolein	5.000	4.315	13.7	81	0.00
13		acetone	25.000	27.657	-10.6	100	0.00
14		trichlorofluoromethane	5.000	5.576	-11.5	100	0.00
15		isopropyl alcohol	12.500	11.952	4.4	89	0.00
16	C	acrylonitrile	5.000	4.844	3.1	88	0.00
17	C	1,1-dichloroethene	5.000	5.704	-14.1	103	0.00
18		tertiary butyl alcohol	5.000	4.947	1.1	86	0.00
19	C	methylene chloride	5.000	6.307	-26.1	112	0.00
20	C	3-chloropropene	5.000	5.392	-7.8	96	0.00
21	C	carbon disulfide	5.000	5.469	-9.4	97	0.00
22		Freon 113	5.000	5.608	-12.2	101	0.00
23		trans-1,2-dichloroethene	5.000	5.342	-6.8	96	0.00
24	C	1,1-dichloroethane	5.000	5.554	-11.1	101	0.00
25	C	MTBE	5.000	5.254	-5.1	95	0.00
26	C	vinyl acetate	5.000	4.199	16.0	78	0.00
27	C	2-butanone	5.000	4.982	0.4	85	0.00
28		cis-1,2-dichloroethene	5.000	5.066	-1.3	91	0.00
29		Ethyl Acetate	5.000	5.258	-5.2	93	0.00
30	C	chloroform	5.000	5.140	-2.8	93	0.00
31		Tetrahydrofuran	5.000	5.424	-8.5	97	0.00
32	C	1,2-dichloroethane	5.000	5.034	-0.7	92	0.00
33	I	1,4-difluorobenzene	10.000	10.000	0.0	81	0.00
34	C	hexane	5.000	5.044	-0.9	91	0.00
36	C	1,1,1-trichloroethane	5.000	5.185	-3.7	91	0.00
37	C	benzene	5.000	5.157	-3.1	91	0.00
38	C	carbon tetrachloride	5.000	5.296	-5.9	92	0.00
39		cyclohexane	5.000	5.067	-1.3	90	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-3,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	4.711	5.8	84	0.00
41	C	1,2-dichloropropane	5.000	5.266	-5.3	91	0.00
42		bromodichloromethane	5.000	5.560	-11.2	96	0.00
43	C	1,4-dioxane	5.000	5.451	-9.0	95	0.00
44	C	trichloroethene	5.000	5.197	-3.9	90	0.00
45	C	2,2,4-trimethylpentane	5.000	5.399	-8.0	93	0.00
46		heptane	5.000	5.207	-4.1	90	0.00
47	C	cis-1,3-dichloropropene	5.000	5.549	-11.0	96	0.00
48	C	4-methyl-2-pentanone	5.000	5.249	-5.0	88	0.00
49		trans-1,3-dichloropropene	5.000	5.915	-18.3	100	0.00
50	C	1,1,2-trichloroethane	5.000	5.302	-6.0	92	0.00
51	I	chlorobenzene-D5	10.000	10.000	0.0	83	0.00
52	C	toluene	5.000	5.138	-2.8	92	0.00
54		2-hexanone	5.000	5.067	-1.3	86	0.00
55		dibromochloromethane	5.000	5.344	-6.9	92	0.00
56	C	1,2-dibromoethane	5.000	5.319	-6.4	95	0.00
57	C	tetrachloroethene	5.000	4.834	3.3	85	0.00
58		1,1,1,2-tetrachloroethane	5.000	4.493	10.1	78	0.00
59	C	chlorobenzene	5.000	5.164	-3.3	91	0.00
60	C	ethylbenzene	5.000	5.080	-1.6	90	0.00
61	C	m+p-xylene	10.000	10.428	-4.3	92	0.00
62	C	bromoform	5.000	5.290	-5.8	89	0.00
63	C	styrene	5.000	5.399	-8.0	90	0.00
64	C	1,1,2,2-tetrachloroethane	5.000	5.531	-10.6	96	0.00
65	C	o-xylene	5.000	5.222	-4.4	93	0.00
66		1,2,3-Trichloropropane	5.000	4.800	4.0	85	0.00
68	C	isopropylbenzene	5.000	4.774	4.5	84	0.00
69		Bromobenzene	5.000	4.805	3.9	85	0.00
70		4-ethyl toluene	5.000	5.311	-6.2	89	0.00
71		1,3,5-trimethylbenzene	5.000	5.297	-5.9	94	0.00
72		tert-butylbenzene	5.000	4.836	3.3	84	0.00
73		1,2,4-trimethylbenzene	5.000	5.418	-8.4	93	0.00
74	C	Benzyl Chloride	5.000	3.919	21.6	64	0.00
75		1,3-dichlorobenzene	5.000	5.524	-10.5	94	0.00
76	C	1,4-dichlorobenzene	5.000	5.392	-7.8	94	0.00
77		sec-butylbenzene	5.000	4.711	5.8	83	0.00
78		p-isopropyltoluene	5.000	5.276	-5.5	89	0.00
79		1,2-dichlorobenzene	5.000	5.317	-6.3	92	0.00

Evaluate Continuing Calibration Report

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-3,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 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	5.007	-0.1	85	0.00
81	1,2-dibromo-3-chloropropane	5.000	4.786	4.3	81	0.00
82 C	1,2,4-trichlorobenzene	5.000	5.741	-14.8	94	0.00
83	naphthalene	5.000	4.404	11.9	74	0.00
84	1,2,3-trichlorobenzene	5.000	5.029	-0.6	71	0.00
85 C	hexachlorobutadiene	5.000	5.185	-3.7	86	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\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-3,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : Default-LCS-AP2 - All compounds listed

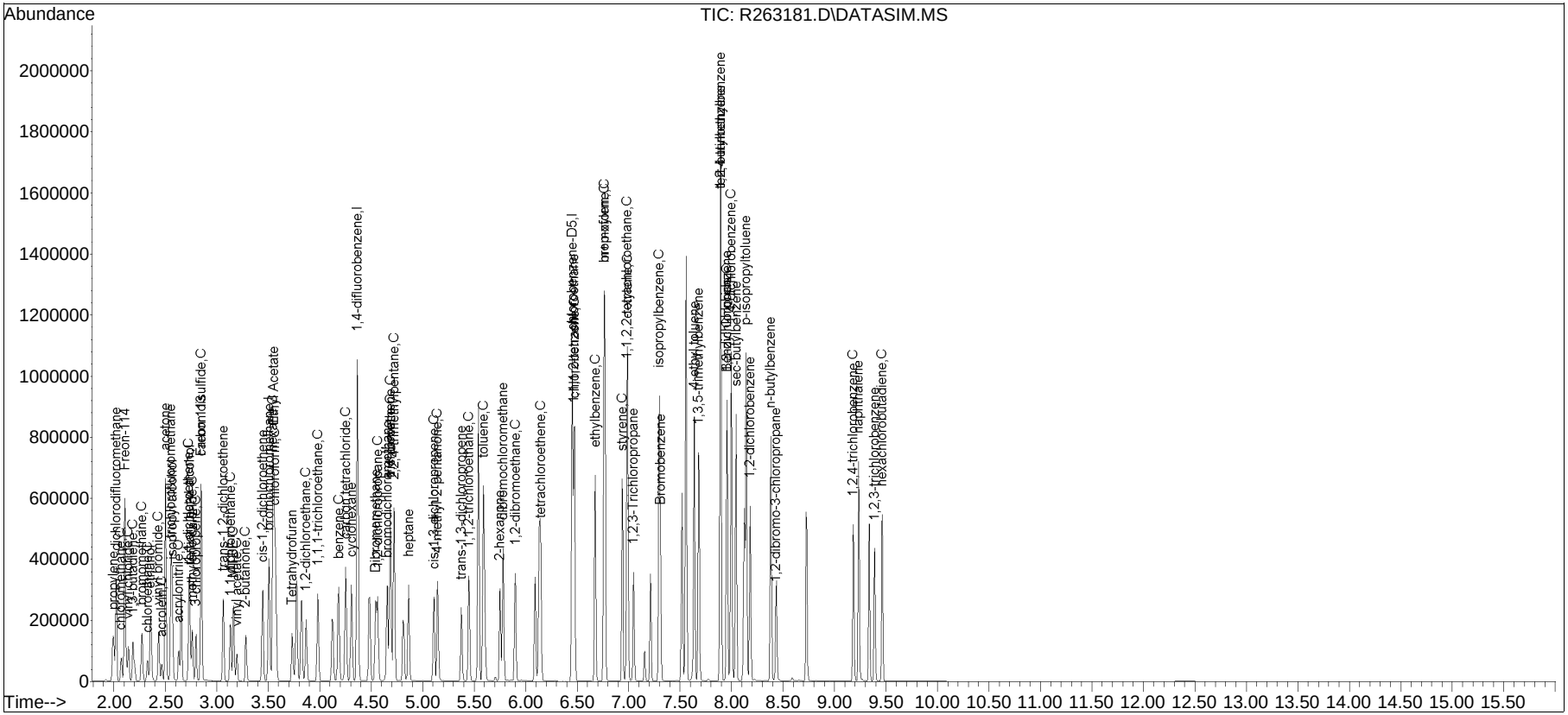
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.507	49	177350	10.000	ppbV	0.00
Standard Area = 177350			Recovery = 100.00%			
33) 1,4-difluorobenzene	4.365	114	751175	10.000	ppbV	0.00
Standard Area = 751175			Recovery = 100.00%			
51) chlorobenzene-D5	6.453	54	87101	10.000	ppbV	0.00
Standard Area = 87101			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.141	62	86642	5.885	ppbV	100
17) 1,1-dichloroethene	2.728	61	113305	5.704	ppbV	100
28) cis-1,2-dichloroethene	3.447	61	103450	5.066	ppbV	100
36) 1,1,1-trichloroethane	3.982	97	177669	5.185	ppbV	99
38) carbon tetrachloride	4.252	117	176574	5.296	ppbV	98
44) trichloroethene	4.685	130	136067	5.197	ppbV	99
57) tetrachloroethene	6.149	166	164506	4.834	ppbV	97

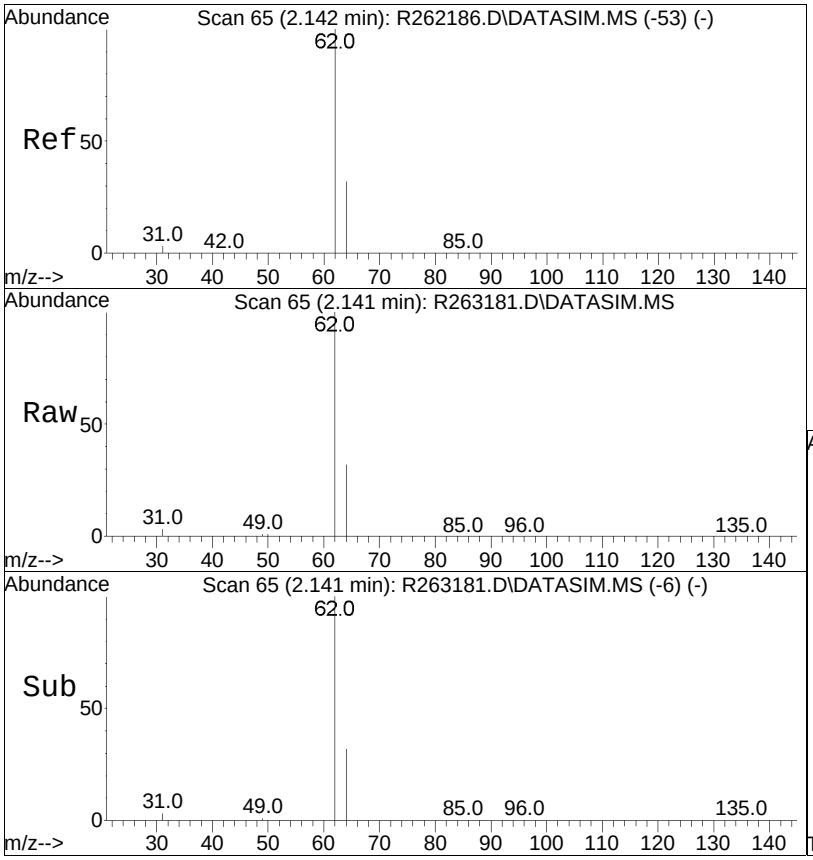
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listedM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263181.D
Acq On : 22 Apr 2025 02:09 pm
Operator : AIRLAB26:KJD
Sample : WG2057230-3,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Apr 22 14:35:07 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:24:07 2025
Response via : Initial Calibration

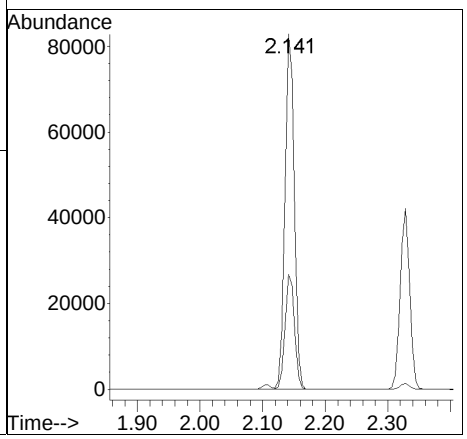


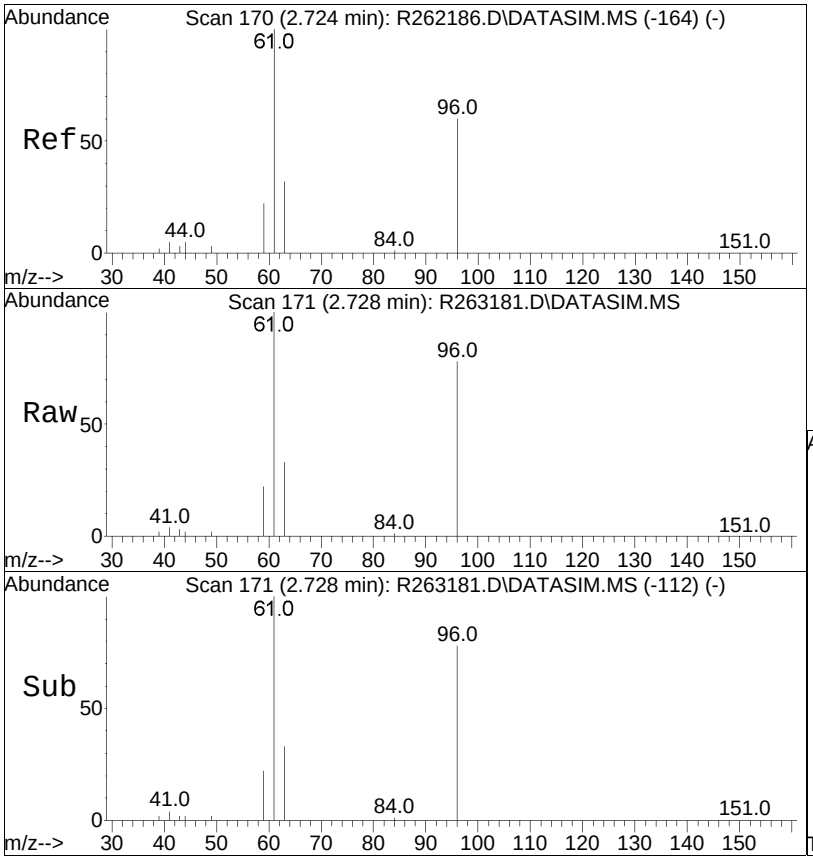


#6
vinyl chloride
Concen: 5.88 ppbV
RT: 2.141 min Scan# 65
Delta R.T. -0.006 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion: 62 Resp: 86642

Ion	Ratio	Lower	Upper
62	100		
64	32.2	25.8	38.8

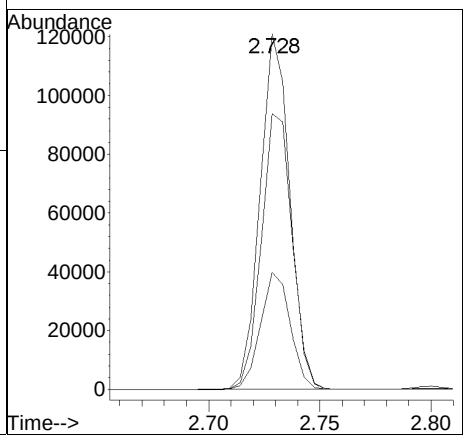


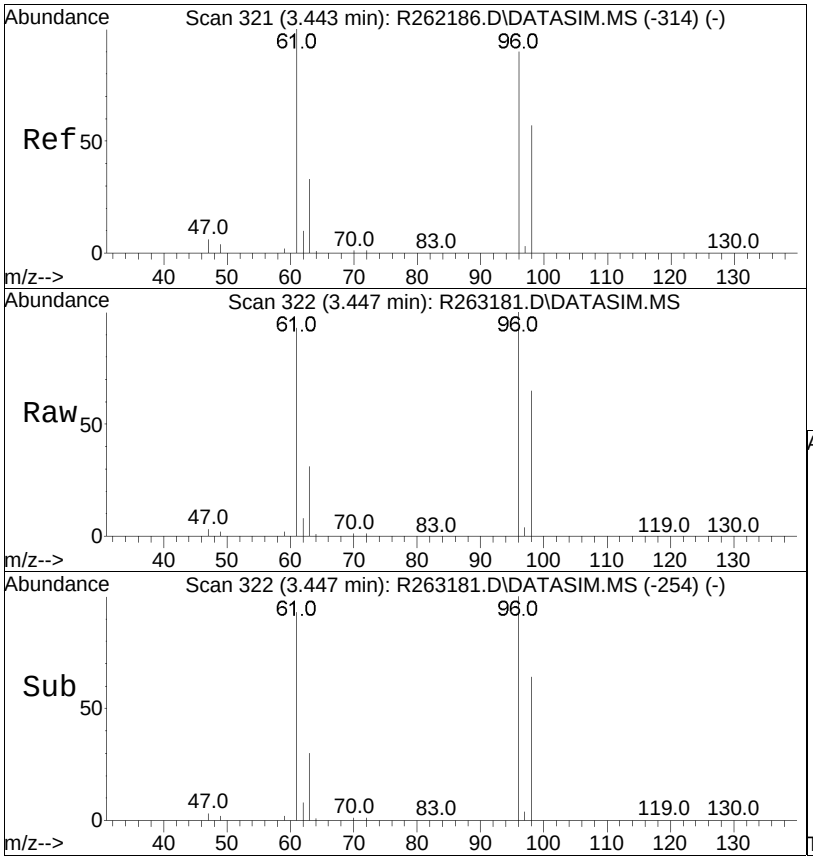


#17
1,1-dichloroethene
Concen: 5.70 ppbV
RT: 2.728 min Scan# 171
Delta R.T. -0.000 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion: 61 Resp: 113305

Ion	Ratio	Lower	Upper
61	100		
96	80.6	64.2	96.4
63	33.2	26.5	39.7

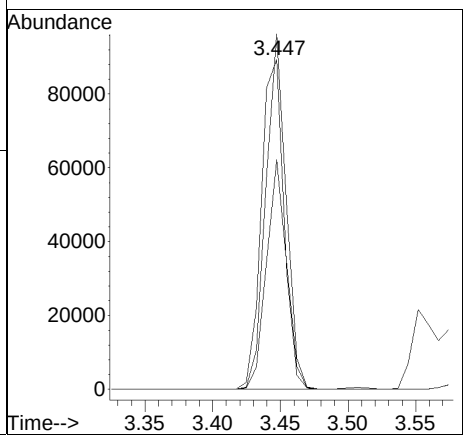


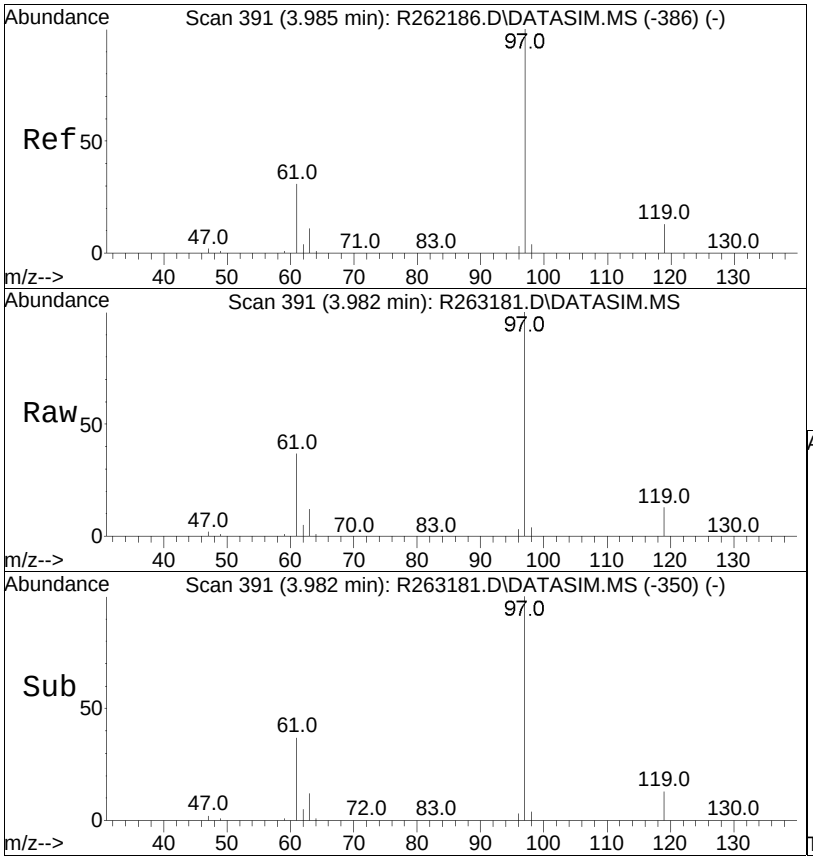


#28
cis-1,2-dichloroethene
Concen: 5.07 ppbV
RT: 3.447 min Scan# 322
Delta R.T. 0.004 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion: 61 Resp: 103450

Ion	Ratio	Lower	Upper
61	100		
96	97.2	77.4	116.0
98	62.2	49.5	74.3

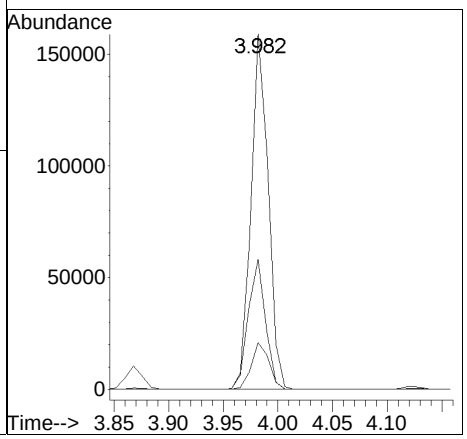


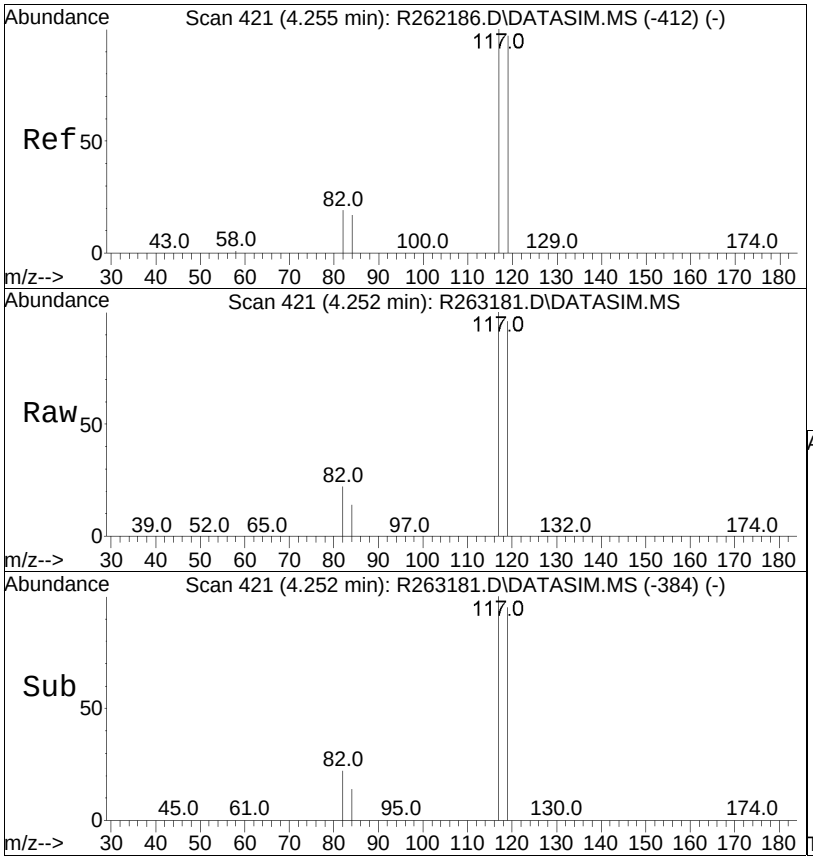


#36
1,1,1-trichloroethane
Concen: 5.19 ppbV
RT: 3.982 min Scan# 391
Delta R.T. -0.003 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion: 97 Resp: 177669

Ion	Ratio	Lower	Upper
97	100		
61	36.0	28.3	42.5
119	13.2	11.0	16.4

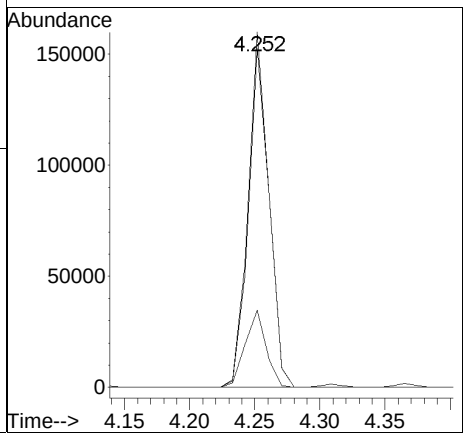


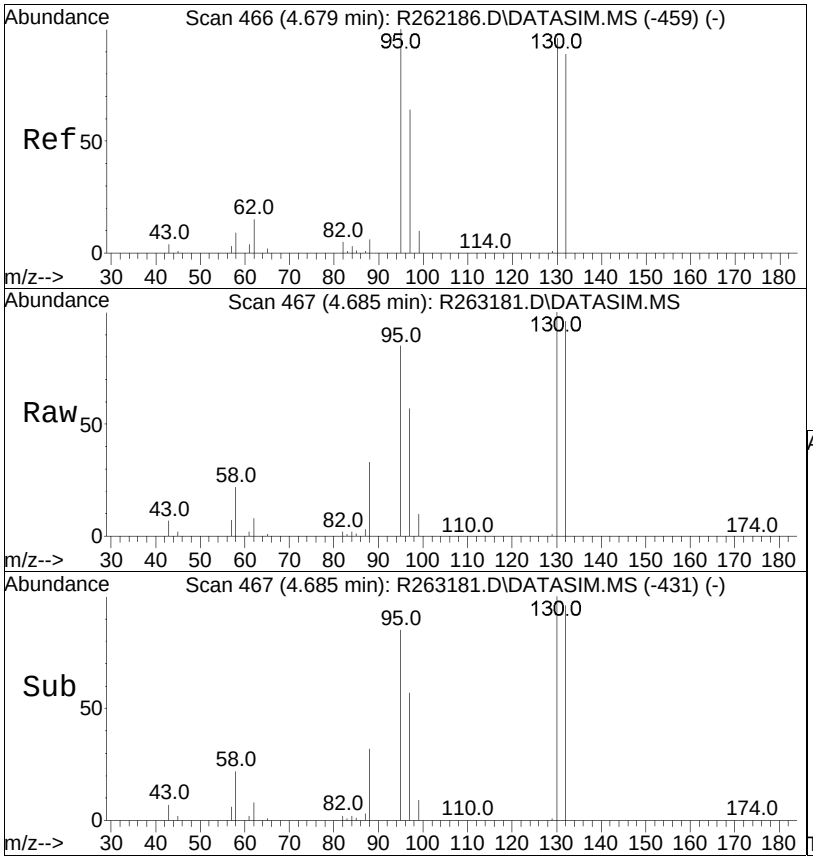


#38
carbon tetrachloride
Concen: 5.30 ppbV
RT: 4.252 min Scan# 421
Delta R.T. -0.003 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion:117 Resp: 176574

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.1	115.7
82	21.4	20.6	31.0

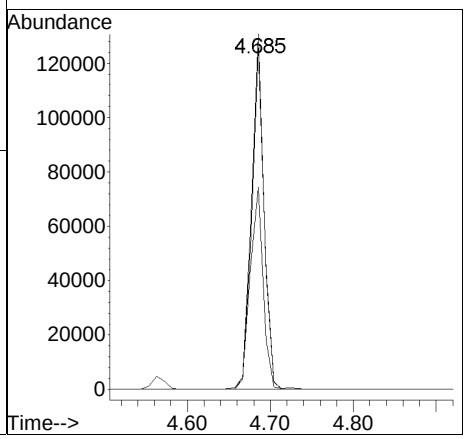


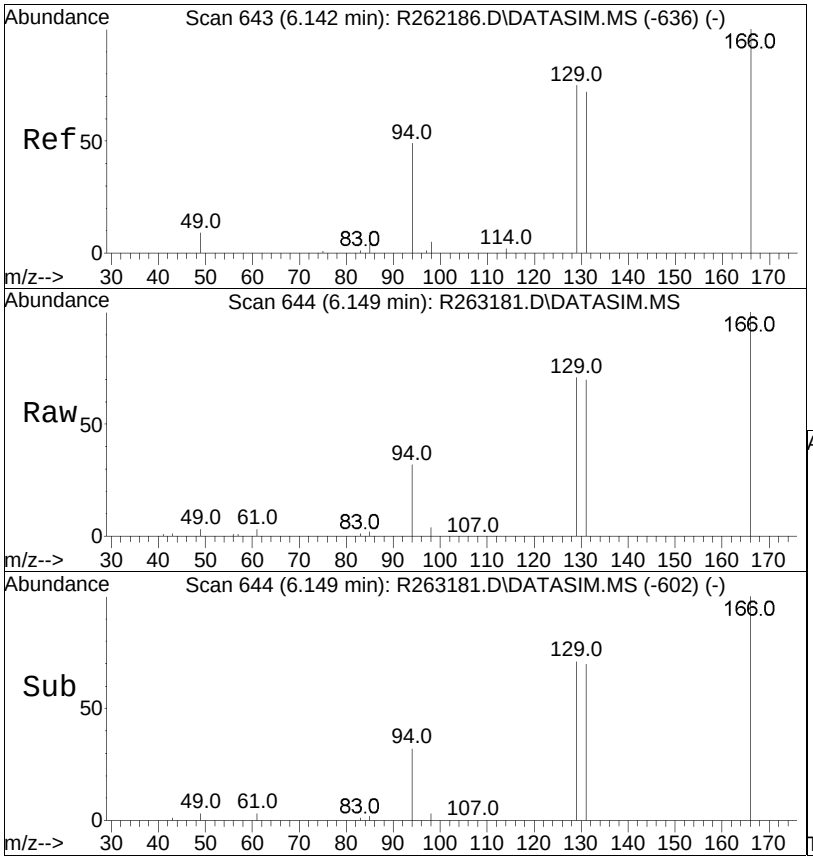


#44
trichloroethene
Concen: 5.20 ppbV
RT: 4.685 min Scan# 467
Delta R.T. 0.006 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion:130 Resp: 136067

Ion	Ratio	Lower	Upper
130	100		
132	95.3	76.3	114.5
97	59.9	46.9	70.3

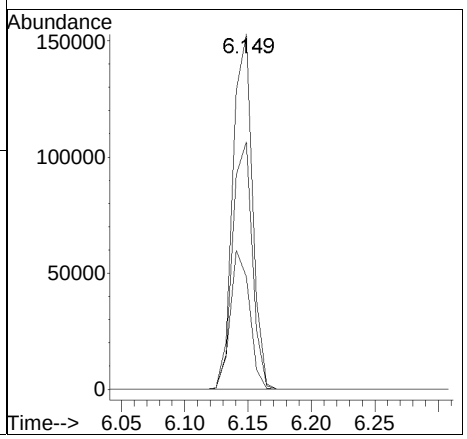




#57
tetrachloroethene
Concen: 4.83 ppbV
RT: 6.149 min Scan# 644
Delta R.T. 0.006 min
Lab File: R263181.D
Acq: 22 Apr 2025 02:09 pm

Tgt Ion:166 Resp: 164506

Ion	Ratio	Lower	Upper
166	100		
131	70.4	55.1	82.7
94	38.4	28.0	42.0



Quantitation Report (QT Reviewed)

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263196.D
Acq On : 23 Apr 2025 12:26 am
Operator : AIRLAB26:KJD
Sample : WG2057230-5,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 07:16:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

CCAL FILE : X:\Airlab\Data\Airlab26\2025\04\0422SIM\R263181.D
Sub List : 7-NY-SIM - .

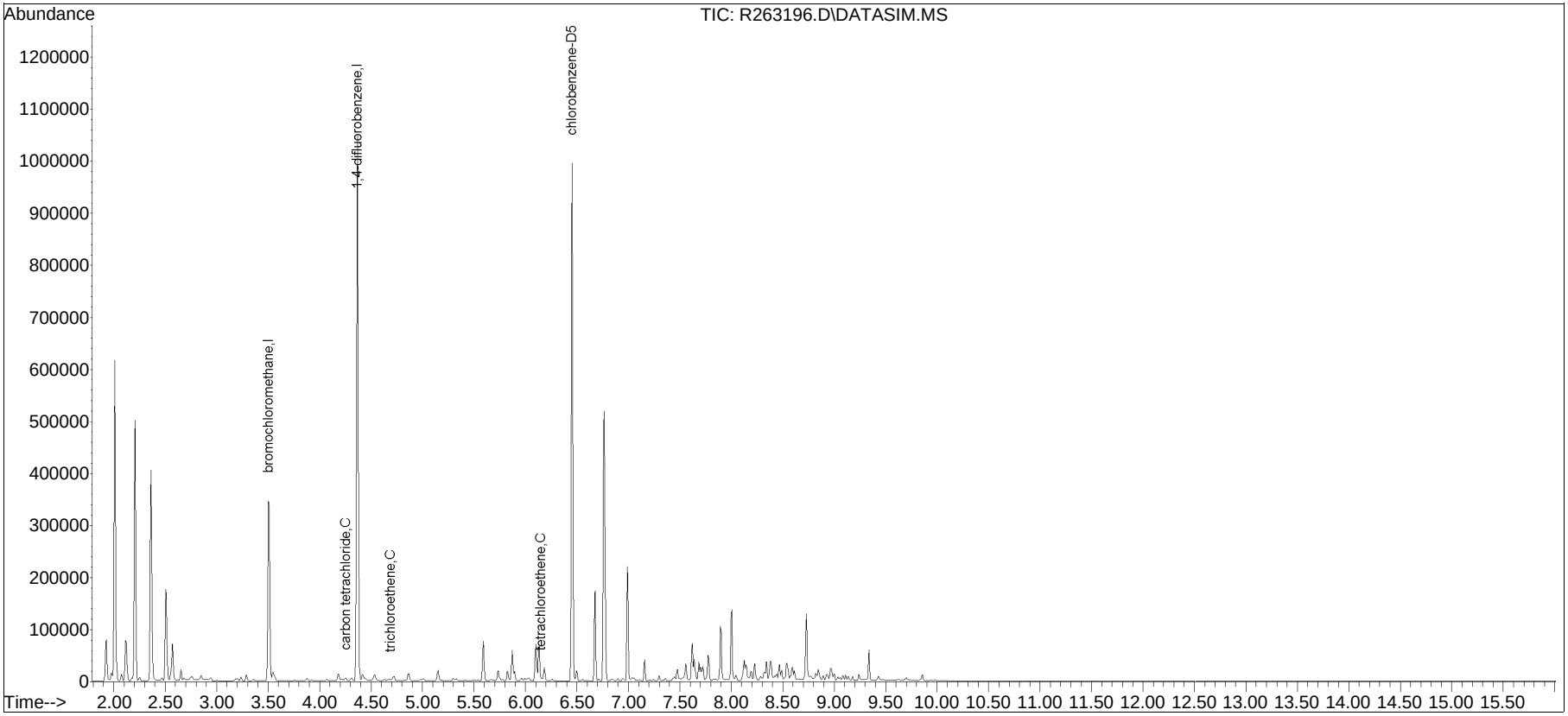
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	3.503	49	172893	10.000	ppbV	0.00
Standard Area = 177350			Recovery =		97.49%	
33) 1,4-difluorobenzene	4.368	114	712195	10.000	ppbV	0.00
Standard Area = 751175			Recovery =		94.81%	
51) chlorobenzene-D5	6.452	54	83747	10.000	ppbV	0.00
Standard Area = 87101			Recovery =		96.15%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	2.147		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	0.000		0	N.D.		
38) carbon tetrachloride	4.255	117	2269	0.072	ppbV	98
44) trichloroethene	4.688	130	322	0.013	ppbV #	86
57) tetrachloroethene	6.150	166	1210	0.037	ppbV #	82

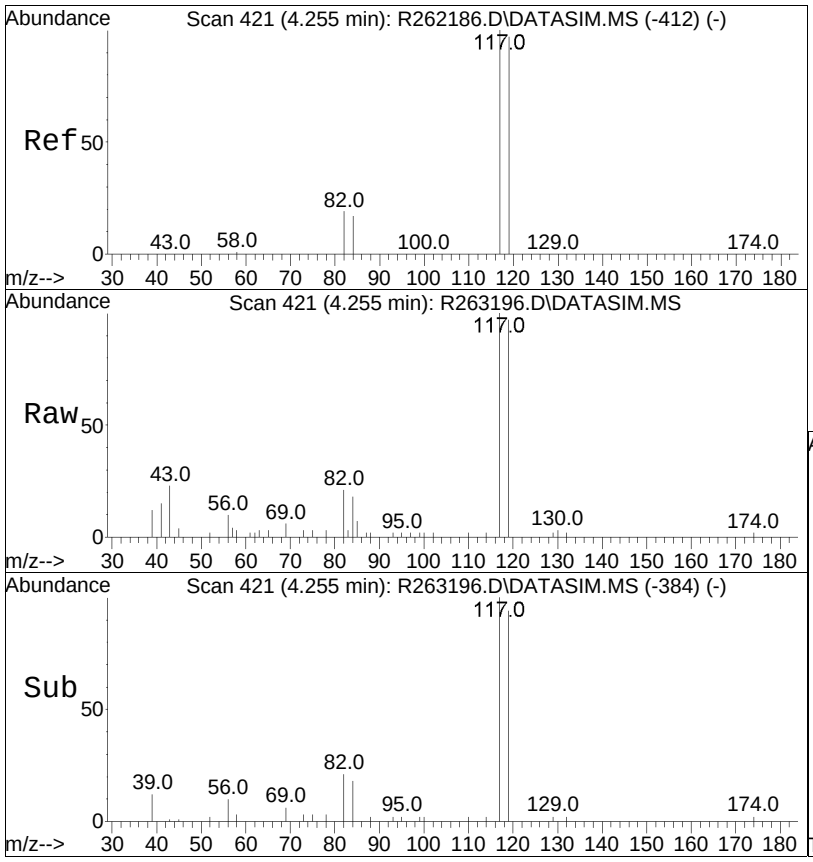
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .ta\Airlab26\2025\04\0422SIM\R263181.D

Data Path : X:\Airlab\Data\Airlab26\2025\04\0422SIM\
Data File : R263196.D
Acq On : 23 Apr 2025 12:26 am
Operator : AIRLAB26:KJD
Sample : WG2057230-5,3,250,250
Misc : WG2057230,ICAL22174
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Apr 23 07:16:28 2025
Quant Method : X:\Airlab\Data\Airlab26\2025\04\0422SIM\TSIM26_250402.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Apr 03 14:23:37 2025
Response via : Initial Calibration

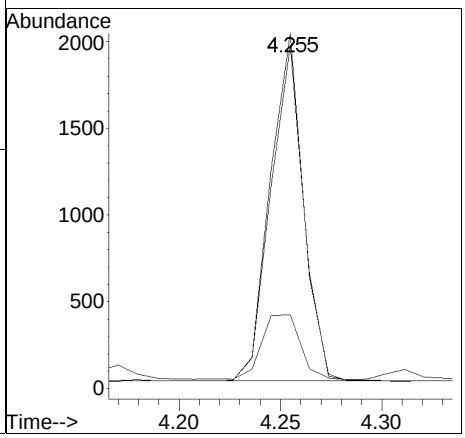


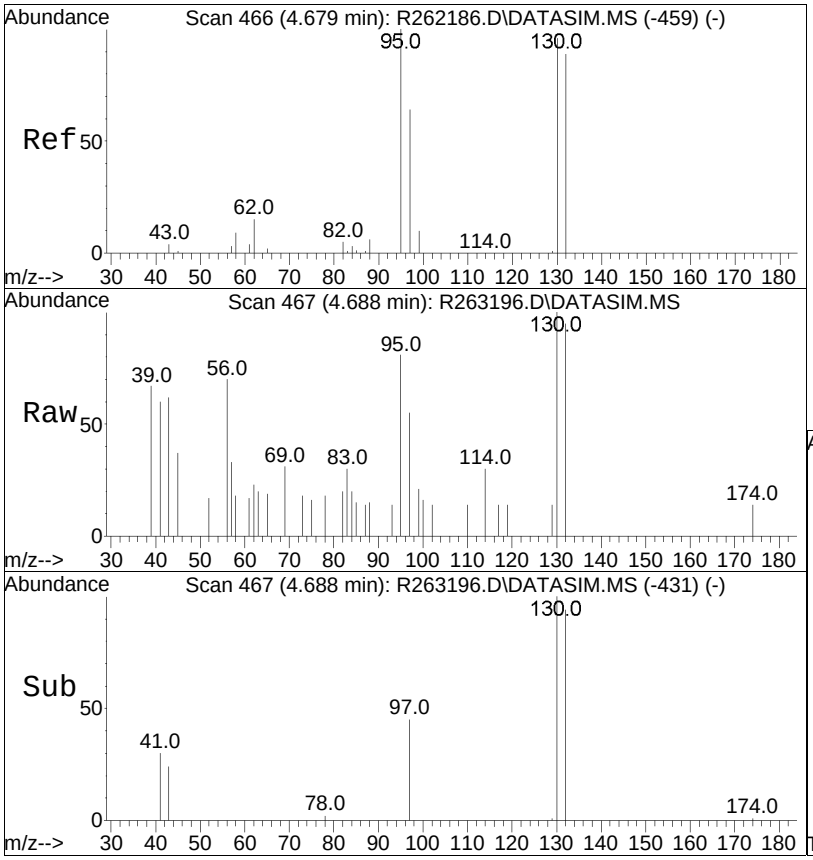


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 4.255 min Scan# 421
Delta R.T. -0.000 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:117 Resp: 2269

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.1	115.7
82	22.5	20.6	31.0

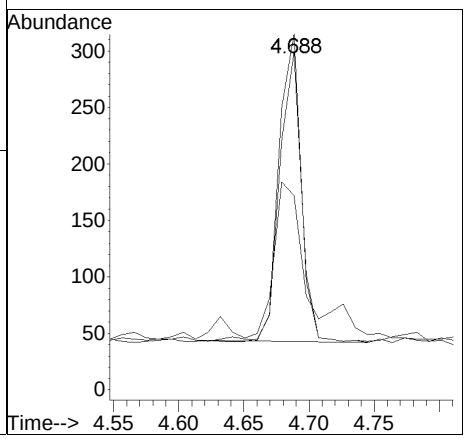


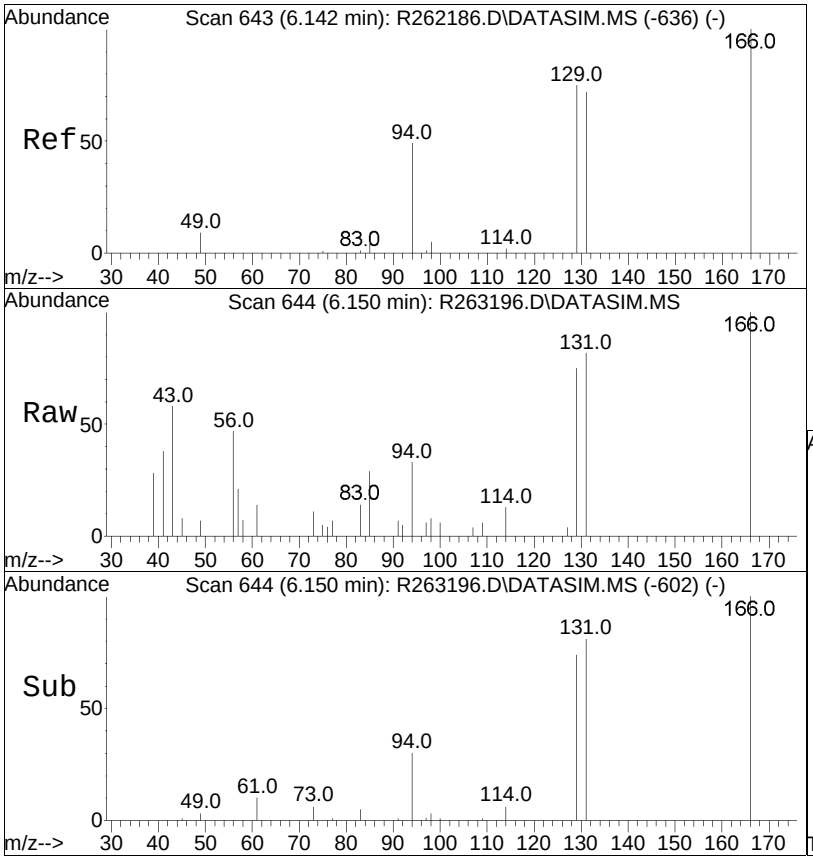


#44
trichloroethene
Concen: 0.01 ppbV
RT: 4.688 min Scan# 467
Delta R.T. 0.009 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:130 Resp: 322

Ion	Ratio	Lower	Upper
130	100		
132	91.9	76.3	114.5
97	82.3	46.9	70.3#

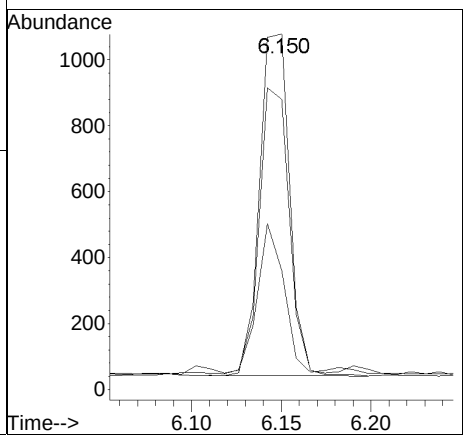




#57
tetrachloroethene
Concen: 0.04 ppbV
RT: 6.150 min Scan# 644
Delta R.T. 0.008 min
Lab File: R263196.D
Acq: 23 Apr 2025 12:26 am

Tgt Ion:166 Resp: 1210

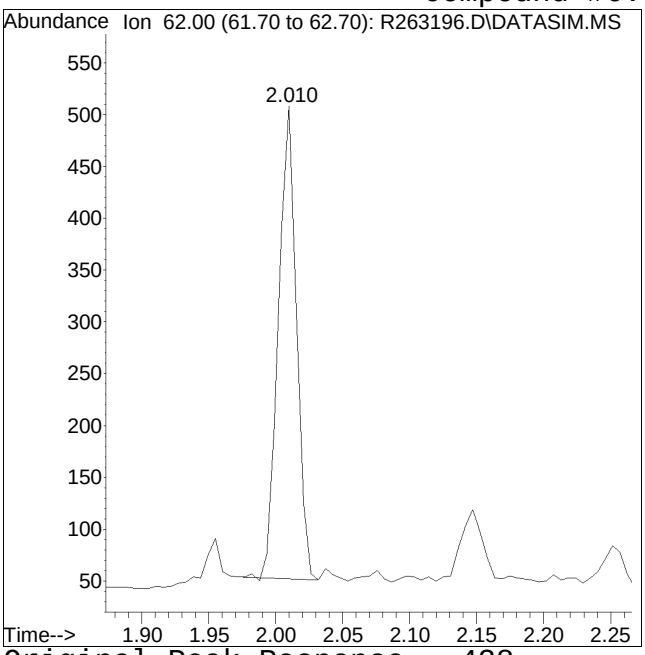
Ion	Ratio	Lower	Upper
166	100		
131	84.8	55.1	82.7#
94	43.9	28.0	42.0#

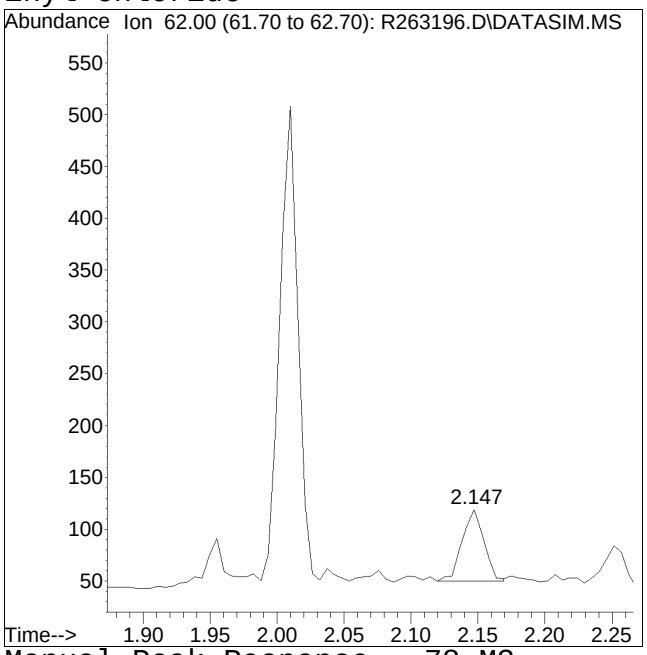


Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263196.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 12:26 am Instrument : Airlab26
Sample : WG2057230-5,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #6: vinyl chloride





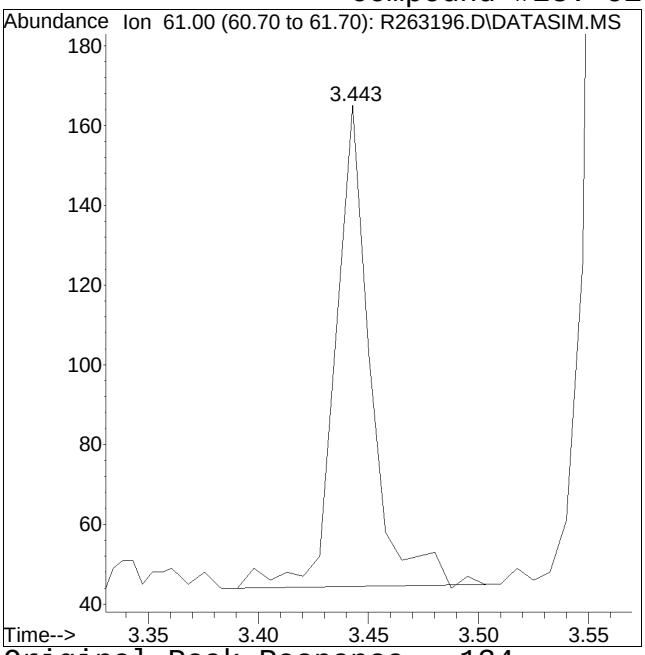
Original Peak Response = 428 Manual Peak Response = 78 M3

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.

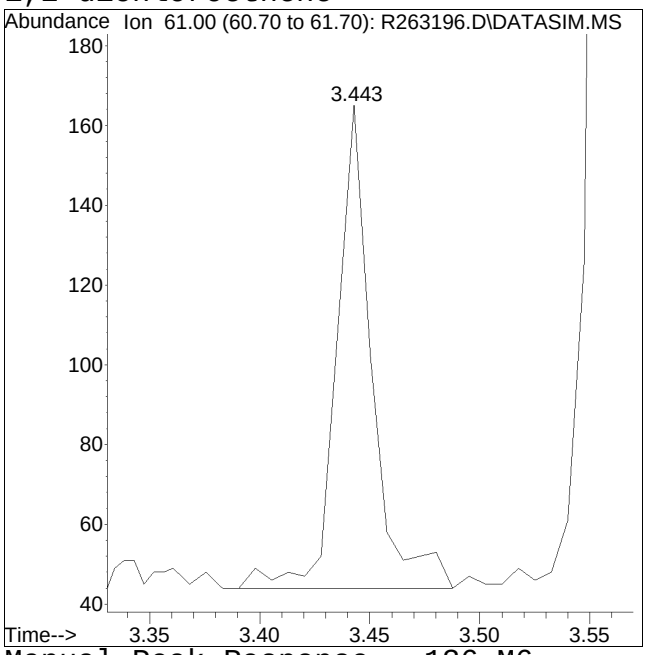
Manual Integration Report

Data Path : X:\Airlab\Data\Airlab26\20QMethod : TSIM26_250402.M
Data File : R263196.D Operator : AIRLAB26:KJD
Date Inj'd : 4/23/2025 12:26 am Instrument : Airlab26
Sample : WG2057230-5,3,250,250 Quant Date : 4/23/2025 7:16 am

Compound #28: cis-1,2-dichloroethene



Original Peak Response = 134



Manual Peak Response = 136 M6

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

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)

Apr 24 2025, 09:37 am

Work Group: WG2057230 for Department: 3 GC/MS

Created: 22-APR-25 Due: Operator: DJR

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2521308-02	A-1	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-04	A-2	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-06	A-3	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-08	A-4	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-10	A-5	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-12	A-6	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-14	A-7	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2521308-16	A-8	S	TO15-SIM	AIR	DONE	U	0502	0417	S0	Can-6
L2522224-01	16-SS-IA-1	S	TO15-SIM	AIR	DONE	U	0503	0418	S0	Can-2.7
L2522452-02	REC-1-777(AP)	S	TO15-SIM	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522452-04	REC-1-711(AP)	S	TO15-SIM	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522452-06	REC-1-707(AP)	S	TO15-SIM	AIR	DONE	U	0510	0417	S0	Can-2.7
L2522632-01	IA-SV-1	S	TO15-SIM	AIR	DONE	U	0511	0418	S0	Can-6
L2522632-02	DUP-04.10.2025	S	TO15-SIM	AIR	DONE	U	0511	0418	S0	Can-6
L2522632-03	AA-01	S	TO15-SIM	AIR	DONE	U	0511	0418	S0	Can-6
WG2057230-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG2057230-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG2057230-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG2057230-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG2057230-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG2057230-5 L2522452-06

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: AIRLAB26

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Date: 04/02/2025

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 250402.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	BA26031401	TO15_SFS.M	R262650.D	250ML			NA
1	BA26031401	TO15_SFS.M	R262651.D	250ML			NA
1	BA26031401	TO15_SFS.M	R262652.D	250ML			NA
1	TA26031401	TO15_SFS.M	R262653.D	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.M	R262654.D	SS24-043D 50 mL	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.M	R262655.D	SS24-043D 125 mL	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.M	R262656.D	SS24-043D 250 mL	SIM ONLY	DEF	NA
6	ITO15-LLSTD0.2	TO15_SFS.M	R262657.D	SS24-043C 50 mL		DEF	NA
6	ITO15-LLSTD0.5	TO15_SFS.M	R262658.D	SS24-043C 125 mL		DEF	NA
6	ITO15-LLSTD1.0	TO15_SFS.M	R262659.D	SS24-043C 250 mL		DEF	NA
7	ITO15-LLSTD5.0	TO15_SFS.M	R262660.D	SS24-043B 125 mL		DEF	NA
7	ITO15-LLSTD010	TO15_SFS.M	R262661.D	SS24-043B 250 mL		DEF	NA
8	ITO15-LLSTD020	TO15_SFS.M	R262662.D	SS24-043A 50 mL		DEF	NA
8	ITO15-LLSTD050	TO15_SFS.M	R262663.D	SS24-043A 125 mL		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.M	R262664.D	SS24-043A 250 mL	LL ONLY	DEF	NA
1	BA26031401	TO15_SFS.M	R262665.D	250ML			NA
1	BA26031402	TO15_SFS.M	R262666.D	250ML			NA
2	CTO15-LLSTD010	TO15_SFS.M	R262667.D	SS25-006B 250 mL	LL ICV	DEF-ICV	NA
2	CTO15-SIMSTD5.0	TO15_SFS.M	R262668.D	SS25-006B 250 mL	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

ment ID: AIRLAB26

Date: 04/22/2025

t Initials BJB/DJR

Internal Standard/Surrogate IDs: SS24-016 / SS24-017

Internal Standard/Surrogate Volume: 100 ml

Sequence File Name: 250422.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	TA26042001	TO15_SFS.M	R263178.D	250 mL	TUNE		NA
2	CA26042001	TO15_SFS.M	R263179.D	250ML	CC		NA
3	CTO15-LLSTD010	TO15_SFS.M	R263180.D	SS25-005A 250 mL	LL LCS	RR for hits of 124TCB by SIM	NA
3	CTO15-SIMSTD5.0	TO15_SFS.M	R263181.D	SS24-005A 125 mL	SIM LCS		NA
1	BA26042001	TO15_SFS.M	R263182.D	250ML	LL BLANK		NA
1	BA26042001	TO15_SFS.M	R263183.D	250ML	SIM BLANK		NA
1	L2522632-03,3,250,250	TO15_SFS.M	R263184.D	WG2057225,ICAL22173		NY + naph -7sim	Y
2	L2521308-02,3,250,250	TO15_SFS.M	R263185.D	WG2057225,ICAL22173		PA -9sim	Y
3	L2521308-04,3,250,250	TO15_SFS.M	R263186.D	WG2057225,ICAL22173		PA -9sim	Y
4	L2521308-06,3,250,250	TO15_SFS.M	R263187.D	WG2057225,ICAL22173		PA -9sim	Y
5	L2521308-08,3,250,250	TO15_SFS.M	R263188.D	WG2057225,ICAL22173		PA -9sim	Y
6	L2521308-10,3,250,250	TO15_SFS.M	R263189.D	WG2057225,ICAL22173		PA -9sim	Y
7	L2521308-12,3,250,250	TO15_SFS.M	R263190.D	WG2057225,ICAL22173		PA -9sim	Y
8	L2521308-14,3,250,250	TO15_SFS.M	R263191.D	WG2057225,ICAL22173		PA -9sim	Y
9	L2521308-16,3,250,250	TO15_SFS.M	R263192.D	WG2057225,ICAL22173		PA -9sim	Y
10	L2522452-02,3,250,250	TO15_SFS.M	R263193.D	WG2057225,ICAL22173		NY + naph -7sim	Y
11	L2522452-04,3,250,250	TO15_SFS.M	R263194.D	WG2057225,ICAL22173		NY + naph -7sim	Y
12	L2522452-06,3,250,250	TO15_SFS.M	R263195.D	WG2057225,ICAL22173		NY + naph -7sim	Y
12	L2522452-06DUP,3,250,250	TO15_SFS.M	R263196.D	WG2057225,ICAL22173	LL/SIM DUP	NY + naph -7sim	Y
13	L2522224-01,3,250,250	TO15_SFS.M	R263197.D	WG2057230,ICAL22174		Std + naph by SIM	Y
14	L2522632-01,3,250,250	TO15_SFS.M	R263198.D	WG2057225,ICAL22173	ACETONE, IPA AND TOLUENE OVERCAL	NY + naph -7sim	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L2522632-02,3,250,250	TO15_SFS.M	R263199.D	WG2057225,ICAL22173	ACETONE, IPA AND TOLUENE OVERCAL	NY + naph -7sim	Y
16	L2522465-04,3,250,250	TO15_SFS.M	R263200.D	WG2057225,ICAL22173		NY + naph	Y
1	L2522465-15,3,250,250	TO15_SFS.M	R263201.D	WG2057225,ICAL22173		NY + naph	Y
2	L2522452-01,3,250,250	TO15_SFS.M	R263202.D	WG2057225,ICAL22173	ACETONE OVERCAL	NY + naph	Y
3	L2522452-03,3,250,250	TO15_SFS.M	R263203.D	WG2057225,ICAL22173		NY + naph	Y
4	L2522452-05,3,250,250	TO15_SFS.M	R263204.D	WG2057225,ICAL22173		NY + naph	Y
14	L2522632-01D,3,50,250	TO15_SFS.M	R263205.D	WG2057225,ICAL22173		ACETONE IPA AND TOLUENE	Y
15	L2522632-02D,3,50,250	TO15_SFS.M	R263206.D	WG2057225,ICAL22173		ACETONE IPA AND TOLUENE	Y
2	L2522452-01D,3,50,250	TO15_SFS.M	R263207.D	WG2057225,ICAL22173		ACETONE	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

APPENDIX J

Imported Backfill Documentation

Tilcon New York Inc.
9 Entin Road
Parsippany, NJ 07054

T 973-366-7741
www.tilconny.com

A CRH COMPANY

People • Character • Innovation • Performance

May 29, 2024

Innovative Recycling Technologies
690 N Queens Ave A
Lindenhurst, NY 11757

Attn: Jack Ewen
Re: 99th St Brooklyn

Dear Mr. Ewen;

As it is produced by our Clinton Point operation and sold through our Port Washington terminal, Item4 Type 2 Subbase is manufactured to meet New York State Department of Transportation (NYSDOT) and ASTM Standard Specifications.

Our Clinton Point Quarry, NYSDOT source #8-9R, supplies 100% virgin dolomite limestone (dolomite) that is quarried and processed to finished sizes. Material shipped from our Clinton Point facility is clean and free of contaminants prior to loading. Our Clinton Point source was approved by the NYSDOT under test number 22AR045 and the letter to this effect is attached.

Also attached please find the gradation, and third-party test results confirming source quality characteristics.

If you have any questions or require additional information, please contact me at leslie.dalessandro@tilconny.com

Very truly yours,
TILCON NEW YORK, INC.

Leslie Dalessandro
Quality Control Department

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

Source
8-9R
Tilcon New York, Inc.
Clinton Point, NY

Sample/Test
Sample Date: 08/11/2022
Test No.: 22AR045
LRN: SM22047312
Smpl ID: bpahucki2292114829

**** Privileged and Confidential ****

Test results represent this sample only. They may not be appropriate for designing mixes. When designing mixes, follow procedures in appropriate Materials Method.

Material meets specifications for §703-02, Coarse Aggregate. Consult pavement friction requirements for intended use.

Run	Specific Gravity	
1	Bulk SSD	2.809
1	Bulk	2.788
1	Apparent	2.846
1	Absorption (%)	0.7

Uncompacted Voids

Acid Insoluble Residue Results

>20% indicates high residue.

Run	10 Cycle MgSO4	
1	Stone Size	1
1	Loss (%)	6.7

Max Loss ≤ 18% on #2 stone.
*Max Loss ≤ 32% on #1 Stone.**

25 Cycle 3% Brine Freeze Thaw	
Loss #2 (%)	
Loss #1 (%)	

Max Loss ≤ 20% on #2 stone.
*Max Loss ≤ 25% on #1 Stone.**

Crush Count

*Min 75% crushed for #2 stone, 85% for #1 stone.**

In accordance with Materials Method 29, only aggregate sources with a current and accepted biennial test and Geologic Source Report will appear on the NYSDOT Approved List
*For detailed specifications, see https://www.dot.ny.gov/main/business-center/engineering/specifications

NEW YORK STATE DEPARTMENT OF TRANSPORTATION MATERIALS BUREAU
COARSE AGGREGATE ANALYSIS FOR 703-02 PHYSICAL REQUIREMENTS

Source
8-9R
Tilcon New York, Inc.
Clinton Point, NY

Sample/Test
Sample Date: 08/11/2022
Test No.: 22AR045
LRN: SM22047312
Smpl ID: bpahucki2292114829

**** Privileged and Confidential ****

Petrographic Results*	
Stone Size No.	1
Noncarbonate (%)	0
Deleterious Material	None

Rock Type Description	%
Dolomite (light to medium gray)	86.7
Dolomite (dark gray)	4.5
Dolomite (tan)	7.7
Dolomite (weathered)	1.1

Source Confirmation	
Stone Size No.	1
Source Confirmation	Matches Reference

In accordance with Materials Method 29, only aggregate sources with a current and accepted biennial test and Geologic Source Report will appear on the NYSDOT Approved List
*For detailed specifications, see https://www.dot.ny.gov/main/business-center/engineering/specifications

Client: Tilcon New York Inc.
Project: 2024 Quality Control – Clinton Point, NY
Project Code: 231665
Subject: Laboratory Tests of Coarse Aggregate (Clinton Point Quarry)

On November 27, 2023, your representative delivered one sample of crushed stone, (Advance Testing Sample Number 23-1738A), from the Clinton Point Quarry, to our Campbell Hall, New York facility for testing. A Resistance of Coarse Aggregates to Freezing and Thawing in accordance with NYSDOT Method 703-08P, G, a 10 Cycle Magnesium Sulfate Soundness in accordance with NYSDOT 703-07P, G, a Lightweight Particles in Aggregate in accordance with ASTM C123, a Los Angeles Abrasion in accordance with ASTM C131, a Clay Lumps and Friable Particles in accordance with ASTM C142, and a Density, Relative Density and Absorption in accordance with ASTM C127 was performed on this sample per your request. The laboratory test results follow.

25-Cycle Freeze Thaw
NYSDOT 703-08P, G
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Sieve Fraction	Initial Weight (g)	Final Weight (g)	Mass Loss (g)	Loss (%)
23-1738A	1/2" – 1/4"	1092.5	1079.7	12.8	1.2
	3/4" – 1/2"	1057.4	1031.3	26.1	4.8
	1" – 3/4"	1864.6	1749.1	115.5	
NYSDOT Specification: < 20%		**Total Sample Loss: Complies with Specification**			

10 Cycle Magnesium Sulfate Soundness
NYSDOT 703-07 P, G
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Sieve Fraction	Initial Weight (g)	Final Weight (g)	Percent Weight Loss (%)
23-1738A	1" – 1/2"	2504.6	2440	2.6
	1/2" – 1/4"	1001.1	932.5	6.9
NYSDOT Specification: < 18%		**Loss: Complies with Specification**		

Los Angeles Abrasion
ASTM C131
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Nominal Maximum Size (inch)	Grading	Percent Loss (%)	Project Specification (%)
23-1738A	3/4	B	20.1	**≤ 35**

Density, Relative Density, and Absorption of Coarse Aggregates
ASTM C127
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Relative Density (OD)	Relative Density (SSD)	Apparent Relative Density	Absorption (%)
23-1738A	2.806	2.818	2.841	0.44

Clay Lumps and Friable Particles in Coarse Aggregate
ASTM C142
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Particle Size Range Tested	Average Clay Lumps and Friable Particles (%)	Project Specification (%)
23-1738A	3/4 - #4	0.00	**≤ 0.5**

Lightweight Particles In Aggregate
ASTM C123
Tilcon New York- Clinton Point Quarry- ¾" Stone

Advance Sample No.	Nominal Maximum Size (inch)	Mass of Sample (g)	Heavy Liquid Used	Specific Gravity of Liquid	Lightweight Particles (%)
23-1738A	3/4	3121.8	Zinc Bromide	2.40	0.00

Sincerely,

Emily J. Rodriguez

Emily J. Rodriguez
Laboratory Manager
Advance Testing Company, Inc.

Quality Test Report

Plant 060_00210-Clinton Point Aggregate
Product NYSDOT Type 2-NYSDOT Type 2 Subbase 304.12
Specification NYSDOT Granular & Structural Fill

1123533435

Sample Information

Sample No 1123533435
Date Sampled 04/01/2024 13:29
Sampled By Matt Kopek
Type Shipping
Method Load-out Face
Location Lower Dock (South)

Split Sample ☐
Resample ☐

Test Note
Barge HG302
Customer Haugland

Gradation Results

Date Completed 04/01/2024 13:29
Tested By Matt Kopek

Unit	Moist Mass	Dry Mass	Wash Mass	Moisture %	Wash Loss %	Procedure
g		14950.00	14243.15		4.7	

Sieve	Mass Retained	Cum Mass Retained	Ind % Retained	% Retained	% Passing	Target	Specification	Comment
2" (50mm)	0.00	0.00	0.0	0.0	100.0			
1 1/2" (37.5mm)	0.00	0.00	0.0	0.0	100.0			
1" (25mm)	530.00	530.00	3.5	3.5	96.5			
3/4" (19mm)	1640.00	2170.00	11.0	14.5	85.5			
1/2" (12.5mm)	3050.00	5220.00	20.4	34.9	65.1			
3/8" (9.5mm)	1090.00	6310.00	7.3	42.2	57.8			
1/4" (6.3mm)	1470.00	7780.00	9.8	52.0	48.0			
#4 (4.75mm)	1200.00	8980.00	8.0	60.1	39.9			
#10 (2mm)	2265.02	11245.02	15.2	75.2	24.8			
#20 (.85mm)	1773.09	13018.11	11.9	87.1	12.9			
#40 (.425mm)	533.72	13551.83	3.6	90.6	9.4		0-70	
#60 (.25mm)	343.87	13895.70	2.3	92.9	7.1			
#100 (.15mm)	181.49	14077.19	1.2	94.2	5.8			
#200 (75µm)	142.09	14219.27	0.95	95.11	4.89		0-15	
Pan	25.07	14244.35	4.89	100.00	0.00			

NEW YORK STATE
DEPARTMENT OF ENVIRONMENTAL CONSERVATION

Request to Import/Reuse Fill or Soil

This form is based on the information required by DER-10, Section 5.4(e) and 6NYCRR Part 360.13. Use of this form is not a substitute for reading the applicable regulations and Technical Guidance document.

SECTION 1 – SITE BACKGROUND

The allowable site use is: Commercial or Industrial Use

Have Ecological Resources been identified? no

Is this soil originating from the site? no

How many cubic yards of soil will be imported/reused? 0-50

If greater than 1000 cubic yards will be imported, enter volume to be imported:

SECTION 2 – MATERIAL OTHER THAN SOIL

Is the material to be imported gravel, rock or stone? yes

Does it contain less than 10%, by weight, material that passes a size 100 sieve? yes

Is this virgin material from a permitted mine or quarry? yes

Is this material recycled concrete or brick from a DEC registered processing facility? no

SECTION 3 - SAMPLING

Provide a brief description of the number and type of samples collected in the space below:

One sample was collected from the source for sieve analysis.

Example Text: 5 discrete samples were collected and analyzed for VOCs. 2 composite samples were collected and analyzed for SVOCs, Inorganics & PCBs/Pesticides.

If the material meets requirements of DER-10 section 5.4(e)5 (other material), no chemical testing needed.

SECTION 3 CONT'D - SAMPLING

Provide a brief written summary of the sampling results or attach evaluation tables (compare to DER-10, Appendix 5):

The sieve analysis indicates 5.8% of the NYSDOT Type 2 stone will pass a size 100 sieve. DER-10 exempts fill materials from a permitted mine or quarry with less than 10% passing a size 80 sieve from chemical analysis requirements. Documentation for the source of the material is attached.

Example Text: Arsenic was detected up to 17 ppm in 1 (of 5) samples; the allowable level is 16 ppm.

If Ecological Resources have been identified use the "If Ecological Resources are Present" column in Appendix 5.

SECTION 4 – SOURCE OF FILL

Name of person providing fill and relationship to the source:

Tilcon New York Inc

Location where fill was obtained:

Clinton Point Quarry

Identification of any state or local approvals as a fill source:

NYSDEC Mine ID 30011

If no approvals are available, provide a brief history of the use of the property that is the fill source:

Provide a list of supporting documentation included with this request:

Sieve Analysis - NYSDOT Type 2 Stone

The information provided on this form is accurate and complete.



Signature

7.11.2024

Date

WOLFGANG MICHELITSCH

Print Name

Roux Engineering and Geology, D.P.C.

Firm

TILCON
A CRH COMPANY

9 Entin Rd.
Parsippany, NJ 07054

New York And New Jersey Orders
(855) 659-1100

Ticket #	Date	Time	Dispatch	Plant #	Plant Description	Source	Facility ID
21289284	05/29/2024	14:28		00212	Port Washington Agg	8-9R	

Sold To:
Cash Sales Port Washington
Job Description:
AGG - 2024 PORT WASHINGTON PRICING
INNOVATIVE RECYCLING

Customer #	Order #	Purchase Order
99115	Q1028513	

Zone	Truck #	Hauler
	3534845	888888 FOB Vendor

Product #	Product Description	DOT Mix ID	Delivery Method
1014013	ASTM #57 NYSDOT 1&2		Pickup
3000002	AGGREGATE PRODUCTION SURCHARGE		

AGG - 2024 Port Washington Pricing
New York NY

Loads: **Accum Amount:**

GROSS: 19,300 L
TARE: 13,140 L
NET: 6,160 L

TODAYS TOTAL:
UNIT PRICE:
SUBTOTAL:
FREIGHT:
OTHER:
TAX:
TOTAL:
GRAND TOTAL:

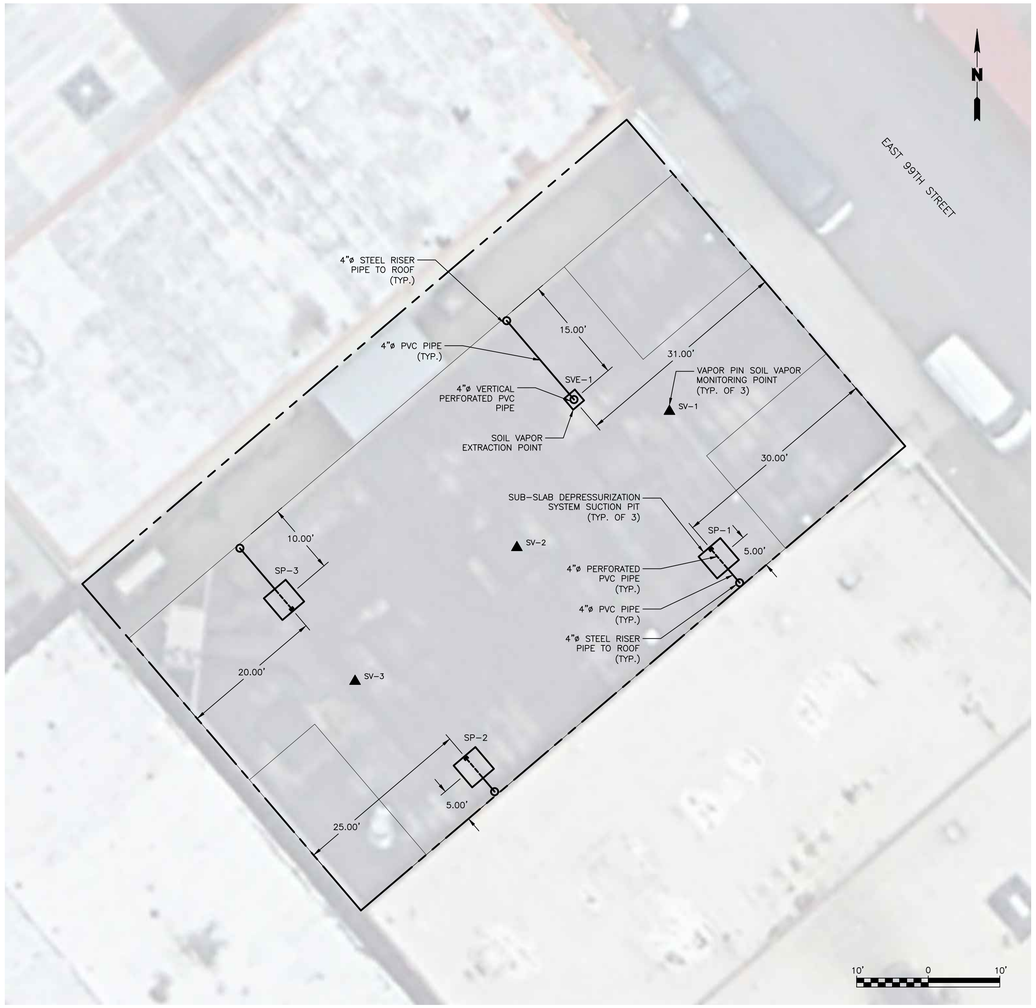
This Load: 3.08 Tons 2.79 Metric Tonnes
Weighmaster 00212 - Port Washington Terminal

TILCON NEW YORK, INC. ISSUES THIS RECEIPT SOLELY FOR THE PURPOSE OF ESTABLISHING WEIGHT. OPERATION OF THIS VEHICLE IN EXCESS OF ALLOWABLE LEGAL PERMITS MAY RESULT IN DELAY OF THE VEHICLE AND/OR ARREST OF ITS OPERATOR. WE ARE NOT RESPONSIBLE FOR DAMAGE WHEN DELIVERY IS ORDERED OFF PUBLIC ROADS ANY DAMAGE WILL BE CHARGED TO THE CUSTOMER

Received By: _____ **Driver Name:** _____

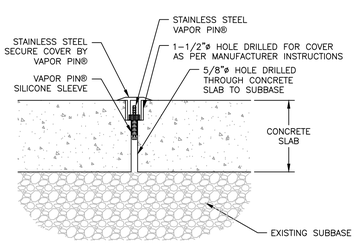
APPENDIX K

SSDS/SVES As-Built and Component Manual



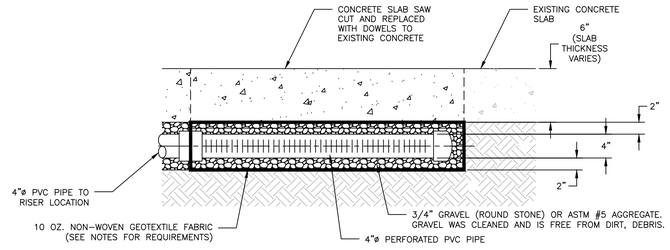
SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION AS-BUILT

SCALE: 1" =10'

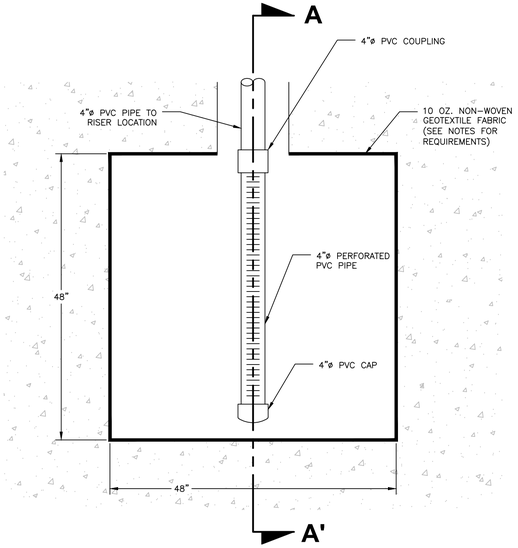


1 TYPICAL SOIL VAPOR MONITORING POINT DETAIL

SCALE: N.T.S.



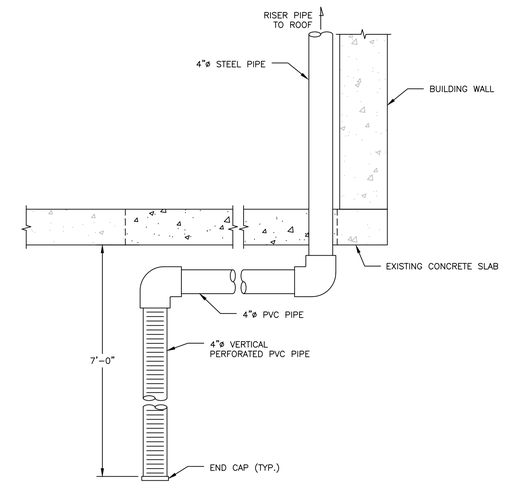
PROFILE VIEW A-A'



PLAN VIEW

2 SUB-SLAB DEPRESSURIZATION SYSTEM SUCTION PIT DETAIL

SCALE: N.T.S.



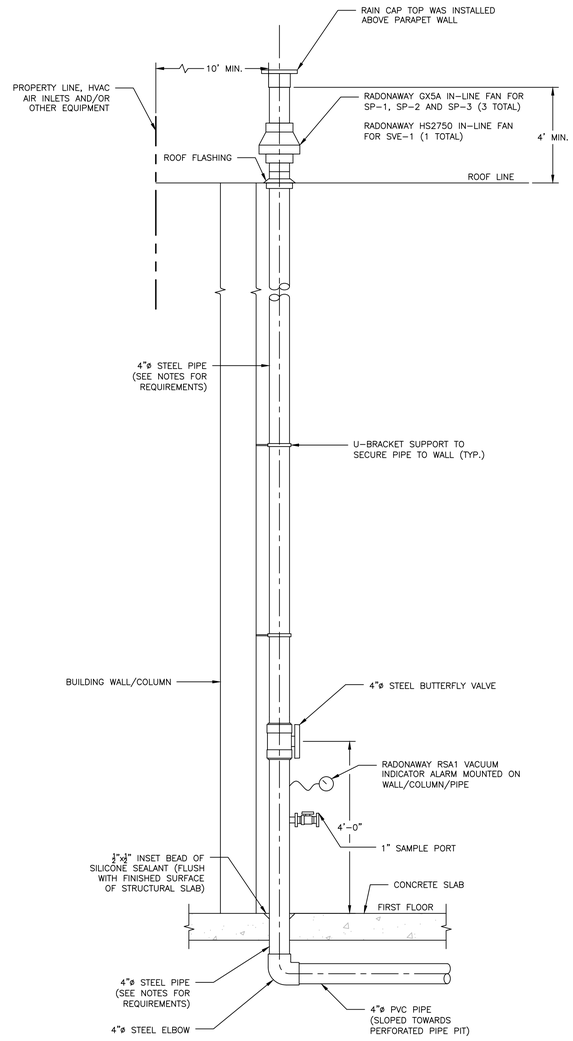
PROFILE VIEW

4 SOIL VAPOR EXTRACTION POINT DETAIL

SCALE: N.T.S.

SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM NOTES

1. CONTRACTOR COORDINATED INSTALLATION OF SOIL VAPOR EXTRACTION SYSTEM/SUB-SLAB DEPRESSURIZATION SYSTEM (SVES/SSDS).
2. CONTRACTOR VERIFIED THE DESIGN INVERT ELEVATIONS (BOTTOM OF PIPING) FOR PENETRATIONS. THE CONTRACTOR VERIFIED HORIZONTAL OFFSETS FOR THE LOCATIONS OF VERTICAL RISERS.
3. ALL SVES/SSDS PIPING IS SLOPED TOWARDS THE PERFORATED PIPE SUCTION PITS TO PREVENT ANY POTENTIAL MOISTURE BUILD UP AND BLOCKADES.
4. ALL ABOVE GRADE SVES/SSDS PIPING (ALONG WITH FITTINGS AND APPURTENANCES) CONSISTS OF CAST-IRON PIPE AND WAS INSTALLED IN ACCORDANCE WITH THE NYC PLUMBING CODE CHAPTER 7 AND 9 FOR VENT PIPE.
5. PVC PIPE IS JOINED TOGETHER USING SLIP JOINTS SECURED WITH SELF-TAPPING SCREWS AND THREADED CONNECTIONS.
6. ALL PENETRATIONS THROUGH THE FLOOR ARE SEALED USING A SILICONE BASED WATERPROOF SEALANT.
7. THE BUILDING CONCRETE SLAB WAS RESTORED IN THE AREAS OF SVES/SSDS INSTALLATION AND IMPERFECTIONS/INCONSISTENCIES IN THE SLAB ARE SEALED AS PART OF THE SVES/SSDS INSTALLATION.
8. EACH SSDS SUCTION PIT WAS INSTALLED WITH A RADONAWAY GX5A IN-LINE FAN, VALVE AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
9. THE SVES POINT WAS INSTALLED WITH A RADONAWAY HS2750 IN-LINE FAN, VALVE, AND RADONAWAY RSA1 VACUUM INDICATOR ALARM.
10. THE SURFACES THAT WERE LINED WITH GEOTEXTILE WERE FREE OF ALL ROCKS, STONES, SHARP OBJECTS OR CONSTRUCTION DEBRIS OF ANY KIND.
11. GEOTEXTILE NONWOVEN FABRIC WAS INSTALLED DIRECTLY ON FILL, MATERIAL OVERLAPS WERE A MINIMUM OF 12" AND THE OVERLAPPED SEAMS WERE SEALED WITH TAPE.
12. NON-WOVEN GEOTEXTILE FABRIC MET PROPERTY VALUES
    a. MINIMUM MASS PER UNIT AREA OF 10 OZ/YD^2 AS PER ASTM D 5261
    b. MINIMUM GRAB STRENGTH OF 250 LBS AS PER ASTM D 4632
    c. MINIMUM PUNCTURE STRENGTH OF 700 LBS AS PER ASTM D 6241
    d. MINIMUM ULTRAVIOLET RESISTANCE @ 500 HOURS OF 70% AS PER ASTM D 4355



3 RISER DETAIL

SCALE: N.T.S.

NO.	DATE	REVISION DESCRIPTION	INT.

STATE OF NEW YORK — NICOLE M. CARNO — No. 072403 — LICENSED PROFESSIONAL ENGINEER

UNAUTHORIZED ALTERATION OR ADDITION TO THIS DOCUMENT IS A VIOLATION OF STATE LAW.

THESE DOCUMENTS (OR COPIES OF ANY THEREOF) PREPARED BY OR BEARING THE SEAL OF THE ENGINEER, SHALL NOT BE REUSED FOR ANY EXTENSIONS OF THE PROJECT OR ANY OTHER PROJECT WITHOUT THE WRITTEN CONSENT OF THE ENGINEER.

PROJ. ENGINEER:	D.E.K.	DRAWN BY:	B.H.C.
DESIGNED BY:	D.E.K.	CHECKED BY:	N.C.
DRAWING SCALE:	AS SHOWN	PLOT SCALE:	1:1
DRAWING DATE:	7/25/24	PRINT TYPE:	B&W
OFFICE:	NY	PAPER SIZE:	ARCH D
PROJECT NO.:	4078.0001Y000		
DRAWING FILE:	4078.0001Y124.01.DWG		

ROUX
Roux Environmental Engineering and Geology, D.P.C.
209 SHAFTER STREET ISLANDIA NEW YORK 11749
(631) 232-2600

PROJECT NAME:
458 EAST 99TH STREET
BROOKLYN, NY 11236

PROJECT FOR:
458 EAST OWNERS LLC

TITLE:
SSDS/SVES AS BUILT

FIGURE NO.
1

V:\CAD\PROJECTS\4078\Y\0001Y\124\4078.0001Y124.01.DWG BDOO

RadonAway®

The world's leading radon fan manufacturer



GX5A Pro Series Fan Installation Instructions

DO NOT CONNECT POWER SUPPLY UNTIL FAN IS COMPLETELY INSTALLED. MAKE SURE ELECTRICAL SERVICE TO FAN IS LOCKED IN "OFF" POSITION. DISCONNECT POWER BEFORE SERVICING FAN.

1. **WARNING!** For General Ventilating Use Only. Do Not Use to Exhaust Hazardous, Corrosive or Explosive Materials, Gases or Vapors. See Vapor Intrusion Application Note #AN001 for important information on VI Applications. RadonAway.com/vapor-intrusion

2. **NOTE:** Fan is suitable for use with solid state speed controls; however, use of speed controls is not generally recommended.

2. **WARNING!** Check voltage at the fan to insure it corresponds with nameplate.

3. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.

4. **NOTICE!** There are no user serviceable parts located inside the fan unit.
Do NOT attempt to open. Return unit to the factory. (See Warranty, p. 7, for details.)

5. **WARNING!** Do not leave fan unit installed on system piping without electrical power for more than 48 hours. Fan failure could result from this non-operational storage.

6. **WARNING!** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

   a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer. (See p. 7.)

   b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

   c) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire rated construction.

   d) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent backdrafting. Follow the heating equipment manufacturers' guidelines and safety standards such as those published by any National Fire Protection Association, and the American Society for Heating, Refrigerating and Air Conditioning Engineers (ASHRAE), and the local code authorities.

   e) When cutting or drilling into a wall or ceiling, do not damage electrical wiring and other hidden utilities.

   f) Ducted fans must always be vented to outdoors.

   g) If this unit is to be installed over a tub or shower, it must be marked as appropriate for the application and be connected to a GFCI (Ground Fault Circuit Interrupter) protected branch circuit.

Fan Installation & Operating Instructions
GX5A Pro Series Fan

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The GX5A Pro Series Radon Fan is intended for use by trained, professional, certified/licensed radon mitigators. The purpose of these instructions is to provide additional guidance for the most effective use of GX Pro Series Fans. These instructions should be considered supplemental to EPA/radon industry standard practices, state and local building codes and regulations. In the event of a conflict, those codes, practices and regulations take precedence over these instructions.

1.2 FAN SEALING

The GX5A Pro Series Fan is factory sealed; no additional caulk or other materials are required to inhibit air leakage.

1.3 ENVIRONMENTALS

The GX5A Pro Series Fan is designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, the fan should be stored in an area where the temperature is never less than 32 degrees F or more than 100 degrees F.

1.4 ACOUSTICS

The GX5A Pro Series Fan, when installed properly, operate with little or no noticeable noise to the building occupants. The velocity of the outgoing air should be considered in the overall system design. In some cases the "rushing" sound of the outlet air may be disturbing. In these instances, the use of a RadonAway Exhaust Muffler is recommended.

(To ensure quiet operation of inline and remote fans, each fan shall be installed using sound attenuation techniques appropriate for the installation. For bathroom and general ventilation applications, at least 8 feet of insulated flexible duct shall be installed between the exhaust or supply grille(s) and the fan(s). The GX5A Pro Series Fan is not suitable for kitchen range hood remote ventilation applications.)

1.5 GROUND WATER

In the event that a temporary high water table results in water at or above slab level, water may be drawn into the riser pipes, thus blocking air flow to the GX5A Pro Series Fan. The lack of cooling air may result in the fan cycling on and off as the internal temperature rises above the thermal cutoff. Should this condition arise, it is recommended that the fan be turned off until the water recedes, allowing for return to normal operation.

1.6 SLAB COVERAGE

The GX5A Pro Series Fan can provide coverage up to 2000+ sq. ft. per slab penetration. This will primarily depend on the sub-slab material in any particular installation. In general, the tighter the material, the smaller the area covered per penetration. Appropriate selection of the Radon Fan best suited for the sub-slab material can improve the slab coverage. The GX5A Fan is best suited for tighter soils where higher suction is needed. Consider using the RP260 where additional airflow is required, and the RP265 and RP380 for large slab, high airflow applications. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size) be created below the slab at each suction hole.

1.7 CONDENSATION & DRAINAGE

Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation. The GX5A Pro Series Fan MUST be mounted vertically plumb and level, with the outlet pointing up for proper drainage through the fan. Avoid mounting the fan in any orientation that will allow water to accumulate inside the fan housing. The GX5A Pro Series Fan is NOT suitable for underground burial.

For GX5A Pro Series Fan piping, the following table provides the minimum recommended pipe diameter and pitch under several system conditions.

Pipe Diameter	Minimum Rise per Ft of Run*		
	@25 CFM	@50 CFM	@100 CFM
4”	1/8”	1/4”	3/8”
3”	1/4”	3/8”	1 1/2”



See p. 6 for detailed specifications.

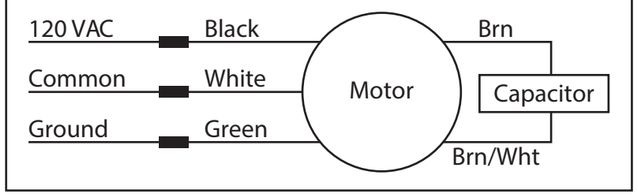
1.8 SYSTEM MONITOR & LABEL

A System Monitor is required to notify the occupants of a fan system malfunction. The GX5A Fan requires a U-tube Manometer >5.5” max. (such as P/N 50036). You may choose to also use an audible alarm (P/N 28001-2, 28001-4, 28421 or 28535). A System Label (provided with Manometers P/N 50036 and 50017) with instructions for contacting the installing contractor for service and identifying the necessity for regular radon tests to be conducted by the building occupants must be conspicuously placed in a location where the occupants frequent and can see the label.

1.9 ELECTRICAL WIRING

The GX5A Pro Series Fan operates on standard 120V, 60Hz AC. All wiring must be performed in accordance with National Fire Protection (NFPA) National Electrical Code, Standard #70, current edition, for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a UL Listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly sealed to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

RP, GP, XP Pro Series Fan Wiring Diagram

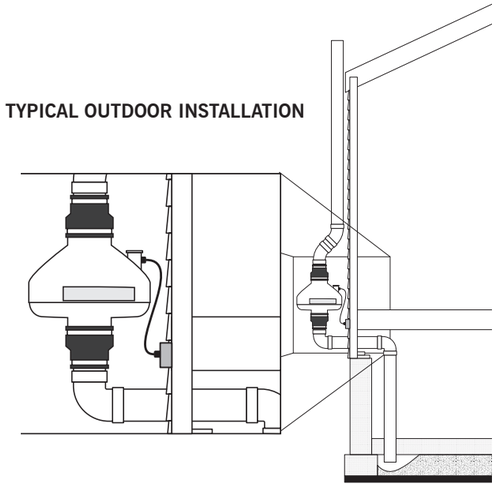


2.0 INSTALLATION

The GX5A Pro Seres Fan can be mounted indoors or outdoors. (It is suggested that EPA and radon mitigation standards recommendations be followed in choosing the fan location.) The GX5A Fan may be mounted directly on the system piping or fastened to a supporting structure by means of an optional mounting bracket.

The ducting from the fan to the outside of the building has a strong effect on noise and fan energy use. Use the shortest, straightest duct routing possible for best performance, and avoid installing the fan with smaller ducts than recommended. Insulation around the ducts can reduce energy loss and inhibit mold growth. Fans installed with existing ducts may not achieve their rated airflow.

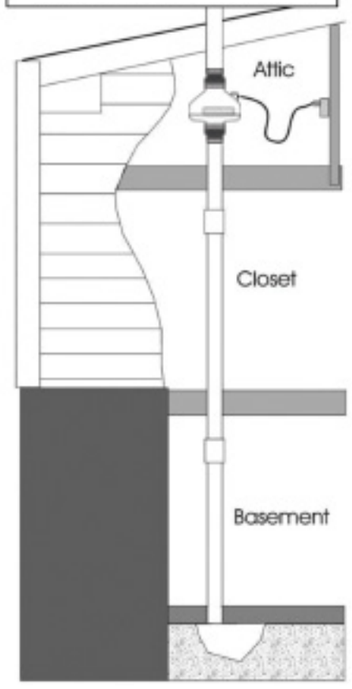
TYPICAL OUTDOOR INSTALLATION



2.1 MOUNTING

Mount the GX5A Pro Series Fan vertically with outlet up. Ensure the unit is plumb and level. When mounting directly on the system piping assure that the fan does not contact any building surface to avoid vibration noise.

TYPICAL INDOOR INSTALLATION



2.2 MOUNTING BRACKET (optional)

The GX5A Pro Series Fan may be optionally secured with the RadonAway P/N 25007 mounting bracket. Foam or rubber grommets may also be used between the bracket and mounting surface for vibration isolation.

2.3 SYSTEM PIPING

Complete piping run, using flexible couplings as a means of disconnect for servicing the unit and for vibration isolation. As the fan is typically outside of the building thermal boundary and is venting to the outside, installation of insulation around the fan is not required.

2.4 ELECTRICAL CONNECTION

Connect wiring with wire nuts provided, observing proper connections (See Section 1.9). Note that the fan is not intended for connection to rigid metal conduit.

2.5 VENT MUFFLER (optional)

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed at the end of the vent pipe.

2.6 OPERATION CHECKS & ANNUAL SYSTEM MAINTENANCE

_____ **Verify** all connections are tight and **leak-free**.

_____ **Ensure** the GX5A Pro Series Fan and all ducting are **secure and vibration-free**.

_____ **Verify system vacuum pressure** with manometer. **Ensure** vacuum pressure is within normal operating range and **less than** the maximum recommended operating pressure.
(Based on sea-level operation, at higher altitudes reduce by about 4% per 1000 feet)
(Further reduce Maximum Operating Pressure by 10% for High Temperature environments.)
See Product Specifications. If this is exceeded, increase the number of suction points.

_____ **Verify Radon levels** by testing to EPA Protocol and applicable testing standards.

THE FOLLOWING CHARTS SHOW THE PERFORMANCE OF THE GX5A PRO SERIES FAN

GX5A PRO SERIES FAN Product Specifications

Typical CFM Vs. Static Pressure "WC						
Model	**0"**	**1.0"**	**2.0"**	**3.0"**	**4.0"**	**5.0"**
GX5A	174	150	121	**87**	**50**	**8**

Model	Power Consumption 120VAC, 60Hz, 1.5 Amp Maximum	Maximum Recommended Operation Pressure* (Sea Level Operation)**
GX5A	77-133 watts	5.00" WC

**Reduce by 10% for High Temperature Operation **Reduce by 4% per 1000 ft. of altitude.*

Model	Size	Weight	Inlet/Outlet	L.2
GX5A	11.1"H x 11.9" Dia.	9 lbs	4.5"OD (4.0" PVC Sched 40 size compatible)	25

L.2 = Estimated Equivalent Length of Rigid Metal Ducting resulting in .2" WC pressure loss for Duct Size listed. Longer Equivalent Lengths can be accommodated at Flows Lower than that at .2" WC pressure loss (see CFM Vs Static Pressure "WC Table).

GX5A Pro Series Fan Additional Specifications

Model	Recommended Duct	PVC Pipe Mounting	Thermal Cutout	Insulation Class
GX5A	3" or 4" Schedule 20/40 PVC	Mount on the duct pipe or with optional mounting bracket. For Ventilation: 4", 6" or 8" Rigid or Flexible Ducting.	150°C/302°F	Class F Insulation

Continuous Duty
3000 RPM
Thermally Protected
Residential and Commercial
Rated for Indoor or Outdoor Use

LISTED
Electric Fan

Intertek
77728

Conforms to
UL STD. 507
Certified to
CAN/CSA STD.
C22.2 No.113

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the RadonAway® GX5A Pro Series Fan for shipping damage within 15 days of receipt. **Notify RadonAway of any damages immediately.** RadonAway is not responsible for damages incurred during shipping. However, for your benefit, RadonAway does insure shipments.

There are no user serviceable parts inside the fan. **Do not attempt to open the housing.** Return unit to factory. (See Warranty below).

Install the GX Pro Series Fan in accordance with all EPA, ANSI/AARST standard practices, and state and local building codes and regulations.

Provide a copy of this instruction or comparable radon system and testing information to the building occupants after completing system installation.

Warranty

RadonAway® warrants that the GX5A Pro Series Fan (the "Fan") will be free from defects in materials and workmanship for a period of 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner (the "Warranty Term").

RadonAway® will replace any fan which fails due to defects in materials or workmanship during the Warranty Term. This Warranty is contingent on installation of the Fan in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway®.

The Fan must be returned (at Owner's cost) to the RadonAway® factory. Any Fan returned to the factory will be discarded unless the Owner provides specific instructions along with the Fan when it is returned regardless of whether or not the Fan is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

5-YEAR EXTENDED WARRANTY WITH PROFESSIONAL INSTALLATION.

RadonAway® will extend the Warranty Term of the fan to 60 months (5 years) from date of purchase or 66 months from date of manufacture, whichever is sooner, provided that the fan is installed by a professional radon mitigation contractor. Proof of purchase and/or proof of professional installation may be required for service under this warranty. No extended warranty is offered outside the Continental United States and Canada beyond the standard 12 months from the date of purchase or18 months from the date of manufacture, whichever is sooner.

RadonAway® is not responsible for installation, removal or delivery costs associated with this Warranty.

LIMITATION OF WARRANTY

EXCEPT AS STATED ABOVE, THE GX5A PRO SERIES FAN IS PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULARPURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE FAN OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping costs, including insurance, to and from factory.

RadonAway®
3 Saber Way, Ward Hill, MA 01835 USA
TEL (978) 521-3703 FAX (978) 521-3964
Email to: Returns@RadonAway.com

Record the following information for your records:

Serial Number: Purchase Date:

RadonAway®

The world's leading radon fan manufacturer



HS2750 and HS5500 Installation & Operating Instructions

DO NOT CONNECT POWER SUPPLY UNTIL BLOWER IS COMPLETELY INSTALLED.
MAKE SURE ELECTRICAL SERVICE TO BLOWER IS LOCKED IN "OFF" POSITION. DISCONNECT POWER BEFORE SERVICING.

1. **WARNING!** Do not use blower in hazardous environments where blower electrical system could provide ignition to combustible or flammable materials.

2. **WARNING!** Check voltage at the blower to ensure it corresponds with nameplate. See Vapor Intrusion Application Note #AN001 for important information on VI Applications. RadonAway.com/vapor-intrusion

3. **WARNING!** Normal operation of this device may affect the combustion airflow needed for safe operation of fuel burning equipment. Check for possible backdraft conditions on all combustion devices after installation.

4. All wiring must be performed in accordance with the National Fire Protection Association's (NFPA) "National Electrical Code, Standard #70"-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician.

5. **WARNING!** In the event that the blower is immersed in water, return unit to factory for service before operating.

6. **WARNING!** Do not twist or torque blower inlet or outlet piping as leakage may result.

7. **WARNING!** Do not leave blower unit installed on system piping without electrical power for more than 48 hours. Blower failure could result from this non-operational storage.

8. **WARNING!** TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

    a) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

    b) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

1.0 SYSTEM DESIGN CONSIDERATIONS

1.1 INTRODUCTION

The HS2750 and HS5500 Blowers are intended for use by trained, certified/licensed, professional radon mitigators. The purpose of these instructions is to provide additional guidance for the most effective use of the HS2750 and HS5500 Blowers. These instructions should be considered supplemental to current industry standards and federal, state, county and local building codes and regulations. In the event of a conflict, those codes, practices and regulations take precedence over these instructions.

1.2 ENVIRONMENTALS

The HS2750 and HS5500 Blowers are designed to perform year-round in all but the harshest climates without additional concern for temperature or weather. For installations in an area of severe cold weather, please contact RadonAway for assistance. When not in operation, HS2750 and HS5500 Blowers should be stored in an area where the temperature is always greater than 32°F or less than 100°F. The HS2750 and HS5500 Blowers are thermally protected such that they will shut off when the internal temperature is above 185°F / 85°C. If the HS2750 or HS5500 Blower is idle in an area where the ambient temperature exceeds this shut off, it will not restart until the internal temperature falls below 75°C.

1.3 ACOUSTICS

The HS2750 or HS5500 Blower, when installed properly, operates with little or no noticeable noise to the building occupants. Recommended system design and installation considerations to minimize noise: When installing the HS2750 or HS5500 Blower above sleeping areas, select a location for mounting at the farthest possible distance. Avoid mounting near doors, fold-down stairs or other uninsulated structures which may transmit sound. Ensure a solid mounting for the HS2750 or HS5500 Blower to avoid structure-borne vibration or noise.

The velocity of the outgoing air must also be considered in the overall system design. With small diameter piping, in some cases a “rushing” sound of the outlet air may be audible. In these instances, the use of a RadonAway Exhaust Muffler (p/n 24002) is recommended.

1.4 GROUND WATER

Under no circumstances should water be allowed to be drawn into the inlet of the HS2750 and HS5500 Blowers as this may result in damage to the unit. The HS2750 or HS5500 Blower should be mounted at least 5 feet above the slab penetration to minimize the risk of filling the Blower with water in installations with occasional high water tables.

In the event that a temporary high water table results in water at or above slab level, water will be drawn into the riser pipes thus blocking air flow to the HS2750 or HS5500 Blower. The lack of cooling air will result in the Blower cycling on and off as the internal temperature rises above the thermal cutoff and falls upon shutoff. Should this condition arise, power down and disconnect the HS2750 or HS5500 Blower until the water recedes allowing for return to normal operation; then reconnect and power on to turn the Blower back on.

1.5 CONDENSATION & DRAINAGE

WARNING!: Failure to provide adequate drainage for condensation can result in system failure and damage the HS Blower.
Condensation is formed in the piping of a mitigation system when the air in the piping is chilled below its dew point. This can occur at points where the system piping goes through unheated space such as an attic, garage or outside. The system design must provide a means for water to drain back to a slab hole to remove the condensation.

The use of small diameter piping in a system increases the speed at which the air moves. The speed of the air can pull water uphill and, at sufficient velocity, it can actually move water vertically up the side walls of the pipe. This has the potential of creating a problem in the negative pressure (inlet) side piping. For HS2750 or HS5500 Blower inlet piping, the following table provides the minimum recommended pipe diameters as well as minimum pitch under several system conditions. Use this chart to size piping for a system.



Pipe Diameter	Minimum Rise per 1 Foot of Run*		
	@ 25 CFM	@ 50 CFM	@ 100 CFM
4”	1/32”	3/32”	3/8”
3”	1/8”	3/8”	1 1/2”

*Typical operational flow rates:

All exhaust piping should be 2” PVC.

1.6 SYSTEM MONITOR & LABEL

A properly designed system should incorporate a “System On” indicator for affirmation of system operation. The HS2750 and HS5500 Blowers come equipped with a built-in magnehelic pressure gauge located on the front cover which serves this purpose. Other indicator products such as u-tube manometers should be mounted at least 5 feet above the slab penetration to minimize the risk of filling the gauge with water in installations with occasional high water tables. If required, place in a conspicuous location a System Label (such as RadonAway P/N 15005-20) with instructions for contacting the installing contractor for service and also identifying the necessity for regular radon tests to be conducted.

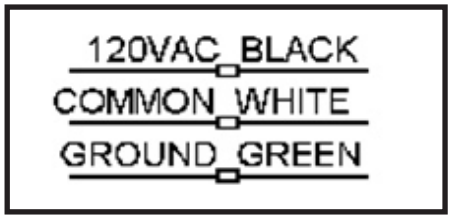
1.7 SLAB COVERAGE

The HS2750 or HS5500 Blower can provide coverage of well over 1000 sq. ft. per slab penetration. This will, of course, depend on the sub-slab aggregate in any particular installation and the diagnostic results. In general, sand and gravel are much looser aggregates than dirt and clay. Additional suction points can be added as required. It is recommended that a small pit (5 to 10 gallons in size; larger as needed) be created below the slab at each suction hole. When fine sand or dirt is present it is recommended that the pit be lined with a material such as clean gravel, size 4, 5, 56, or 6 as classified (ASTM C33).

1.8 ELECTRICAL WIRING

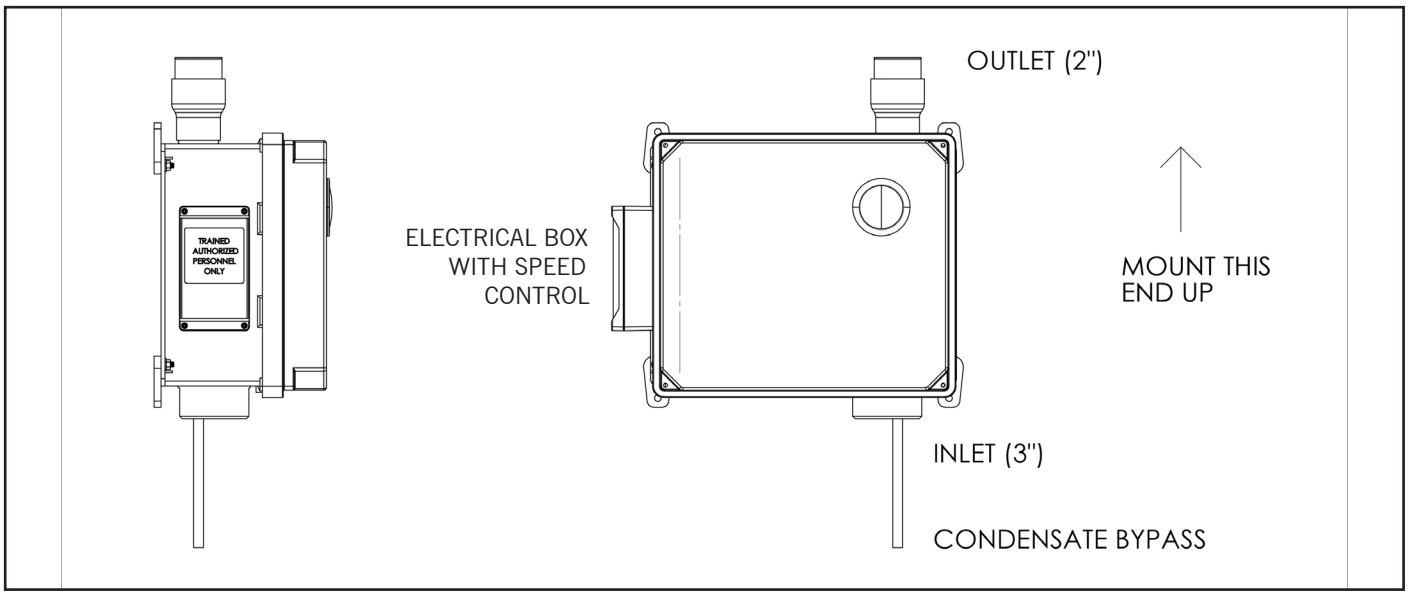
HS2750 or HSHS5500 Blower models come with an electrical switch box for hard wiring to a 120V electrical source. All wiring must be performed in accordance with the National Fire Protection Association’s (NFPA)”National Electrical Code, Standard #70”-current edition for all commercial and industrial work, and state and local building codes. All wiring must be performed by a qualified and licensed electrician. Outdoor installations require the use of a UL listed watertight conduit. Ensure that all exterior electrical boxes are outdoor rated and properly caulked to prevent water penetration into the box. A means, such as a weep hole, is recommended to drain the box.

WIRING DIAGRAM



1.9 SPEED CONTROLS

The HS2750 and HS5500 have 4-speed (low, medium, high, maximum) built-in speed controls. They are not safe for use with solid state speed controls.



2.0 INSTALLATION

2.1 MOUNTING

Mount the HS2750 or HS5500 Blower to the wall studs, or similar structure, in the selected location with (4) 1/4" x 1 1/2" lag screws (not provided). Ensure the HS2750 or HS5500 Blower is both plumb and level.

2.2 DUCTING CONNECTIONS

Make final ducting connection to HS2750 or HS5500 Blower with flexible couplings. Ensure all connections are tight. Do not twist or torque inlet and outlet piping on HS2750 or HS5500 Blower or leaks may result.

NOTE: Do NOT solvent weld fittings to unit hubs.

2.3 VENT MUFFLER INSTALLATION

Install the muffler assembly in the selected location in the outlet ducting. Solvent weld all connections. The muffler is normally installed above the roofline at the end of the vent pipe.

2.4 OPERATION CHECKS & ANNUAL SYSTEM MAINTENANCE

_____ **Verify** all connections are tight and **leak-free**.

_____ **Ensure** the HS2750 or HS5500 Blower and all ducting is secure and vibration-free.

_____ **Verify** system vacuum pressure with Magnehelic. **Ensure** vacuum pressure is within normal operating range and **less than** the maximum recommended as shown below:

HS2750: 5" WC (low) / 10" WC (medium) / 15" WC (high) / 20" WC (maximum)
HS5500: 20" WC (low) / 30" WC (medium) / 40" WC (high) / 50" WC (maximum)

(Above are based on sea-level operation, at higher altitudes reduce above by about 4% per 1000 Feet.)
If these are exceeded, increase number of suction points.

_____ **Verify Radon levels** by testing to applicable current industry standards and federal, state, county and local building codes and regulations.

HS2750 and HS5500 PRODUCT SPECIFICATIONS

Model	Speed Setting (Max. Op. Pressure: "WC@Sea Level)	Typical CFM vs Static Suction WC (Recommended Operating Range)								Power* Watts @ 120VAC
		2.5"	5.0"	7.5"	10.0"	12.5"	15.0"	20.0"	25.0"	
HS2750	**Low** (5")	33	24	n/a	n/a	n/a	n/a	n/a	n/a	112-123
	Medium (10")	47	42	34	25	n/a	n/a	n/a	n/a	199-245
	High (15")	n/a	n/a	47	43	33	23	n/a	n/a	266-337
	Maximum (20")	n/a	n/a	n/a	n/a	48	43	24	n/a	361-463

Shutoff Pressure ("WC @ Sea Level): Low 7.8", Med 13.5", High 17.6", Max 22.6"

**Power consumption varies with actual load conditions*

Model	Speed Setting (Max. Op. Pressure: "WC@Sea Level)	Typical CFM vs Static Suction WC (Recommended Operating Range)								Power* Watts @ 120VAC
		5.0"	10.0"	20.0"	25.0"	30.0"	35.0"	40.0"	50.0"	
HS5500	**Low** (20")	44	39	22	n/a	n/a	n/a	n/a	n/a	243-281
	Medium (30")	n/a	n/a	53	41	36	22	n/a	n/a	372-477
	High (40")	n/a	n/a	n/a	45	39	31	22	n/a	527-625
	Maximum (50")	n/a	n/a	n/a	n/a	n/a	34	29	17	591-632

Shutoff Pressure ("WC @ Sea Level): Low 24.5", Med 34.7", High 44.6", Max 52.6"

**Power consumption varies with actual load conditions*

Number Of Speeds: 4

Volts: 120

Hz: 60

AMPS (Max): 4

Inlet: 3" PVC (3.5" OD)

Outlet: 2" PVC (2.37" OD)

Mounting: Brackets for vertical mount

Weight: HS2750, 18 lbs; HS5500, 19.25 lbs

Size: 17.5" W x 9.0" D x 18.5" H

Minimum Recommended PVC Ducting (2" / 3" / 4" / 6" / 8"): 3" Inlet; 2" Outlet

Storage Temperature Range: 32°F-100°F

Thermal Cutout: 185°F / 85°C

Locked rotor protection

LISTED
Electric Fan

Intertek

Conforms to
UL STD. 507

Certified to
CAN/CSA STD.
C22.2 No.113

IMPORTANT INSTRUCTIONS TO INSTALLER

Inspect the RadonAway® HS2750 or HS5500 Blower for shipping damage within 15 days of receipt. **Notify RadonAway® of any damages immediately.** RadonAway® is not responsible for damages incurred during shipping.

Install the HS2750 or HS5500 Blower in accordance with all current industry standards and federal, state, county and local building codes and regulations.

Provide a copy of this instruction or comparable radon system and testing information to the building occupants after completing system installation.

Warranty

RadonAway® warrants that the HS2750/HS5500 Blower (the "Blower") will be free from defects in materials and workmanship for a period of 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner (the "Warranty Term").

RadonAway® will replace or repair any Blower which fails due to defects in materials or workmanship during the Warranty Term. This Warranty is contingent on installation of the blower in accordance with the instructions provided. This Warranty does not apply where any repairs or alterations have been made or attempted by others, or if the unit has been abused or misused. Warranty does not cover damage in shipment unless the damage is due to the negligence of RadonAway®.

The Blower must be returned (at Owner's cost) to the RadonAway® factory. Any Blower returned to the factory will be discarded unless the Owner provides specific instructions along with the Blower when it is returned regardless of whether or not the Blower is actually replaced under this warranty. Proof of purchase must be supplied upon request for service under this Warranty.

2-YEAR EXTENDED WARRANTY WITH INSTALLATION BY A FACTORY-CERTIFIED PROFESSIONAL

RadonAway® will extend the Warranty Term of the Blower to twenty-four (24) months from date of purchase or thirty (30) months from the date of manufacture, whichever is sooner, if: (1) the Blower is installed in a professionally designed and professionally installed active soil depressurization system or installed as a replacement Blower in a professionally designed and professionally installed active soil depressurization system; and (2) proof of an installer Factory Training Certificate. Upon request, proof of purchase and/or proof of professional installation may be required for service under this warranty. No extended warranty is offered outside the Continental United States and Canada beyond the standard 12 months from the date of purchase or 18 months from the date of manufacture, whichever is sooner. RadonAway® is not responsible for installation, removal or delivery costs associated with this Warranty.

EXCEPT AS STATED ABOVE, THE HS2750/HS5500 BLOWERS ARE PROVIDED WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

IN NO EVENT SHALL RADONAWAY BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR RELATING TO, THE BLOWER OR THE PERFORMANCE THEREOF. RADONAWAY'S AGGREGATE LIABILITY HEREUNDER SHALL NOT IN ANY EVENT EXCEED THE AMOUNT OF THE PURCHASE PRICE OF SAID PRODUCT. THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY SHALL BE THE REPAIR OR REPLACEMENT OF THE PRODUCT, TO THE EXTENT THE SAME DOES NOT MEET WITH RADONAWAY'S WARRANTY AS PROVIDED ABOVE.

For service under this Warranty, contact RadonAway for a Return Material Authorization (RMA) number and shipping information. No returns can be accepted without an RMA. If factory return is required, the customer assumes all shipping costs, including insurance, to and from factory.

RadonAway®
3 Saber Way
Ward Hill, MA 01835 USA
TEL (978) 521-3703
FAX (978) 521-3964
Email to: Returns@RadonAway.com

Record the following information for your records:

Serial No. _____

Purchase Date: _____

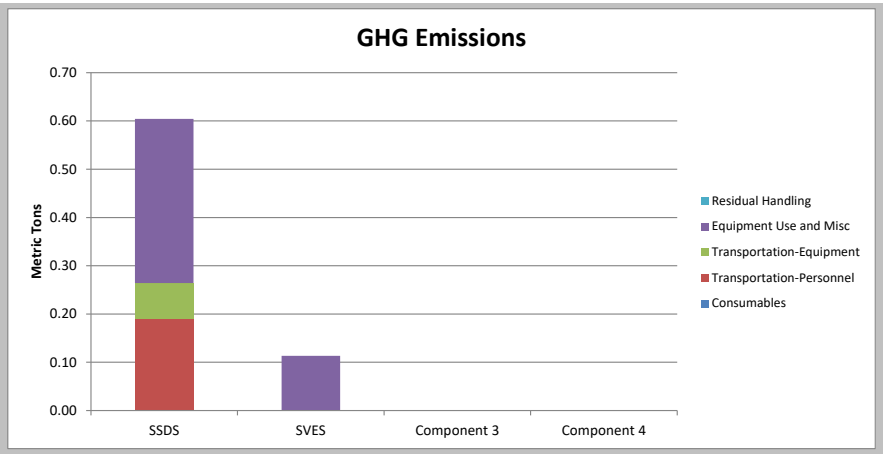
APPENDIX L

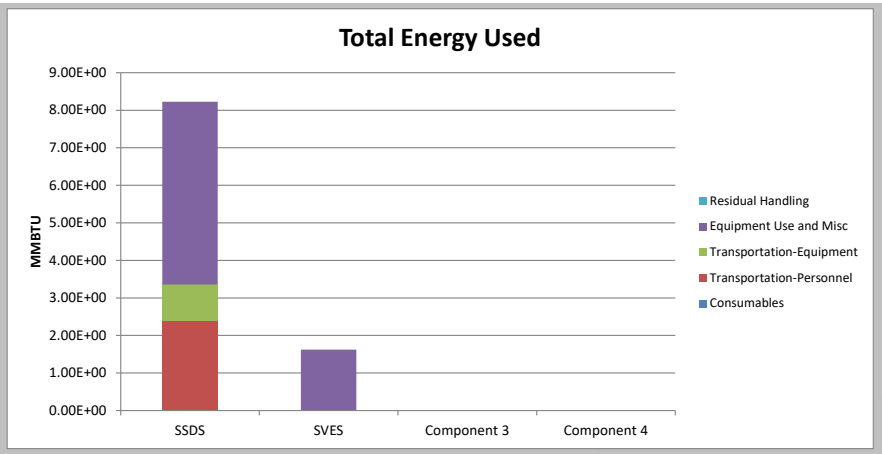
SiteWise Analysis

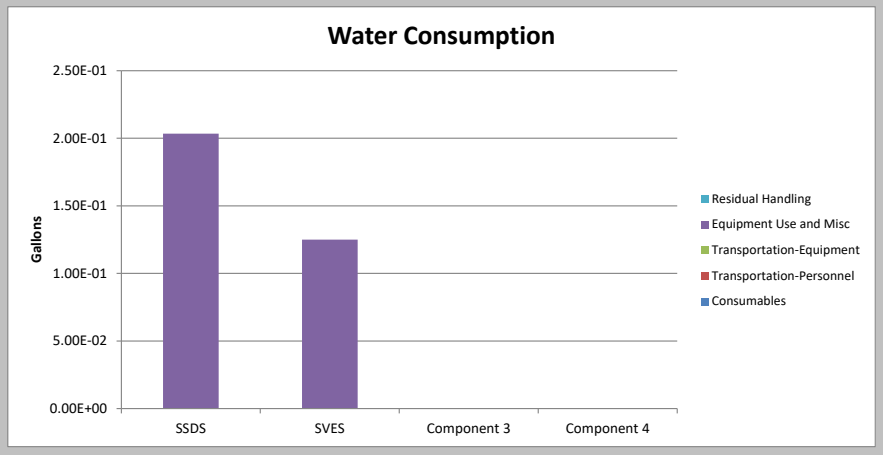
Sustainable Remediation - Environmental Footprint Summary
BCP C224254

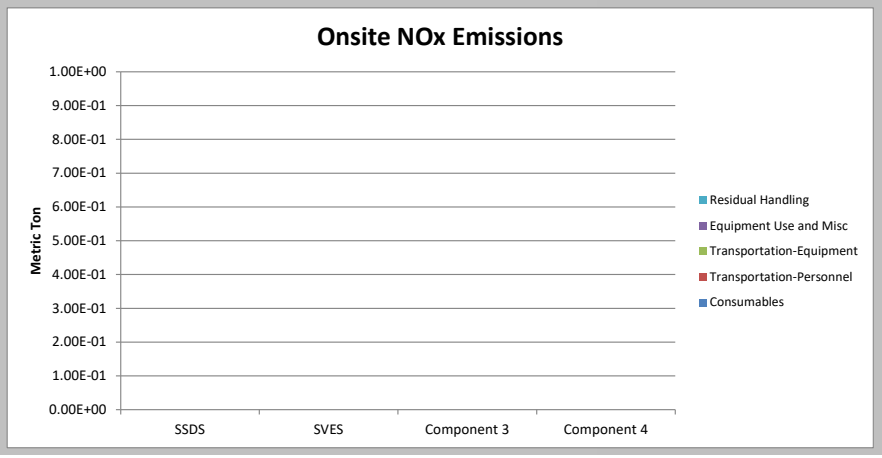
Phase	Activities	GHG Emissions	Total Energy Used	Water Consumption	Electricity Usage	Onsite NOx Emissions	Onsite SOx Emissions	Onsite PM10 Emissions	Total NOx Emissions	Total SOx Emissions	Total PM10 Emissions	Accident Risk Fatality	Accident Risk Injury
		metric ton	MMBTU	gallons	MWH	metric ton	metric ton	metric ton	metric ton	metric ton	metric ton		
SSDS	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.19	2.4E+00	NA	NA	NA	NA	NA	7.1E-05	2.5E-06	1.4E-05	3.9E-06	3.1E-04
	Transportation-Equipment	0.07	9.6E-01	NA	NA	NA	NA	NA	2.3E-05	4.1E-07	2.1E-06	3.9E-07	3.1E-05
	Equipment Use and Misc	0.34	4.9E+00	2.0E-01	4.0E-04	0.0E+00	0.0E+00	0.0E+00	1.6E-03	1.2E-03	1.4E-04	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.60	8.23E+00	2.03E-01	3.99E-04	0.00E+00	0.00E+00	0.00E+00	1.73E-03	1.23E-03	1.53E-04	4.29E-06	3.45E-04
SVES	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.11	1.6E+00	1.2E-01	2.5E-04	0.0E+00	0.0E+00	0.0E+00	5.4E-04	4.1E-04	4.5E-05	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.11	1.62E+00	1.25E-01	2.45E-04	0.00E+00	0.00E+00	0.00E+00	5.44E-04	4.08E-04	4.54E-05	0.00E+00	0.00E+00
Component 3	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Component 4	Consumables	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	NA	NA
	Transportation-Personnel	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Transportation-Equipment	0.00	0.0E+00	NA	NA	NA	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Equipment Use and Misc	0.00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Residual Handling	0.00	0.0E+00	NA	NA	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00	0.0E+00
	Sub-Total	0.00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00	0.00E+00
Total		**7.2E-01**	**9.9E+00**	**3.3E-01**	**6.4E-04**	**0.0E+00**	**0.0E+00**	**0.0E+00**	**2.3E-03**	**1.6E-03**	**2.0E-04**	**4.3E-06**	**3.5E-04**

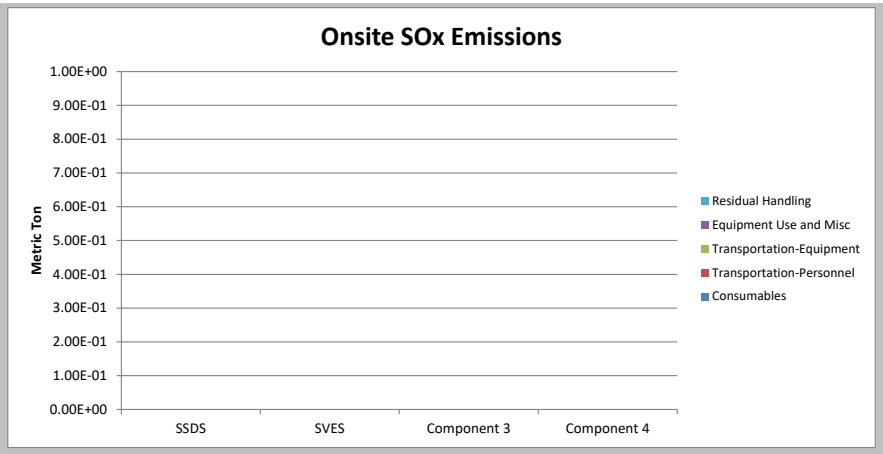
Remedial Alternative Phase	Non-Hazardous Waste Landfill Space	Hazardous Waste Landfill Space	Topsoil Consumption	Costing	Lost Hours - Injury	Percent electricity from renewable sources	Total Cost with Footprint Reduction
	tons	tons	cubic yards	$		%	
SSDS	0.0E+00	0.0E+00	0.0E+00	0	2.8E-03	24.2%	$0
SVES	0.0E+00	0.0E+00	0.0E+00	0	0.0E+00	24.2%	
Component 3	0.0E+00	0.0E+00	0.0E+00	0	0.0E+00	0.0%	
Component 4	0.0E+00	0.0E+00	0.0E+00	0	0.0E+00	0.0%	
Total	**0.0E+00**	**0.0E+00**	**0.0E+00**	**$0**	**2.8E-03**	**12.1%**	

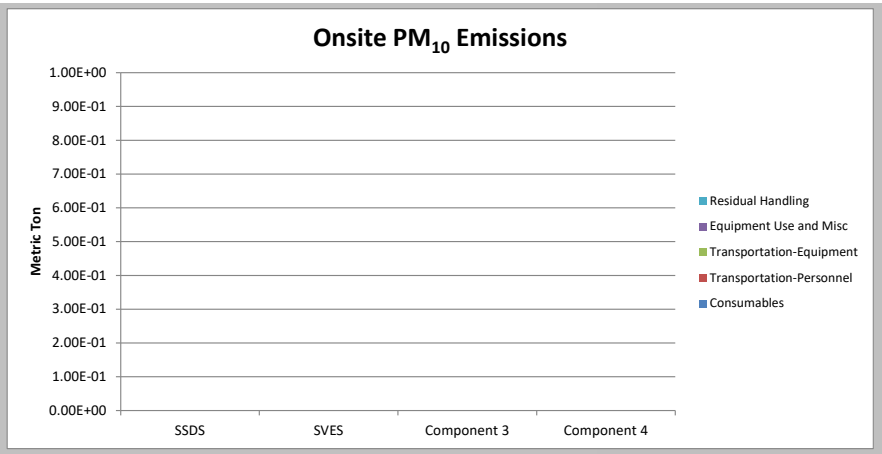

GHG Emissions
Metric Tons
0.70
0.60
0.50
0.40
0.30
0.20
0.10
0.00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

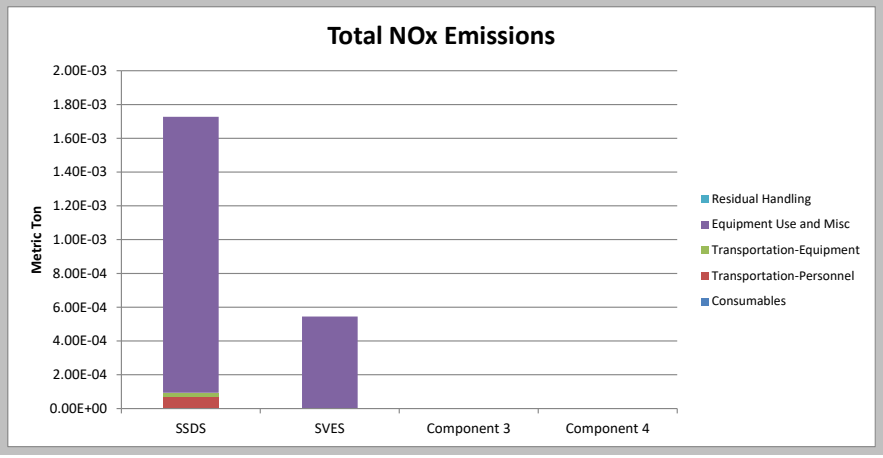

Total Energy Used
MMBTU
9.00E+00
8.00E+00
7.00E+00
6.00E+00
5.00E+00
4.00E+00
3.00E+00
2.00E+00
1.00E+00
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

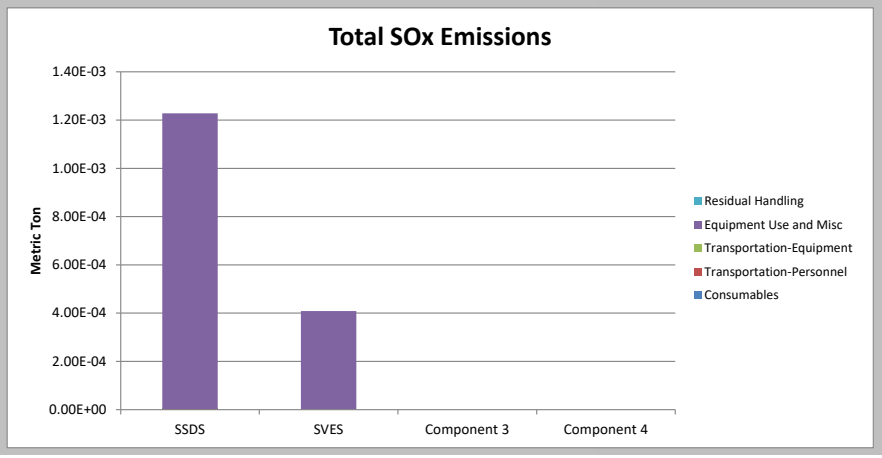

Water Consumption
Gallons
2.50E-01
2.00E-01
1.50E-01
1.00E-01
5.00E-02
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

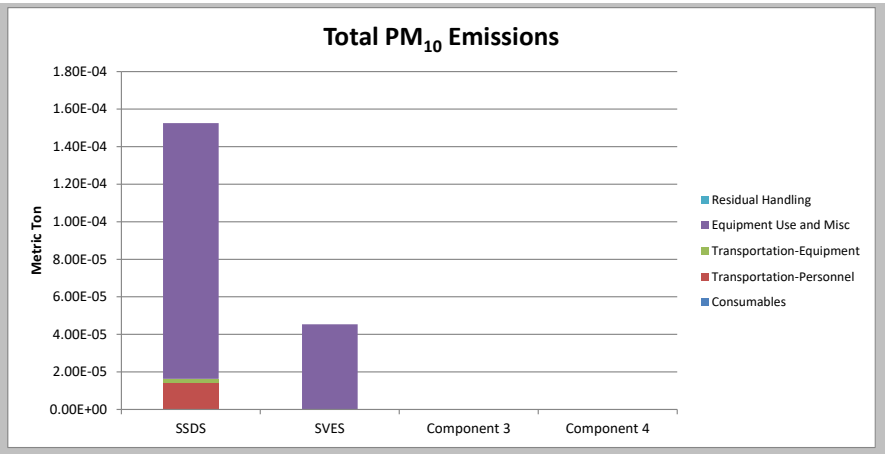

Onsite NOx Emissions
Metric Ton
1.00E+00
9.00E-01
8.00E-01
7.00E-01
6.00E-01
5.00E-01
4.00E-01
3.00E-01
2.00E-01
1.00E-01
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

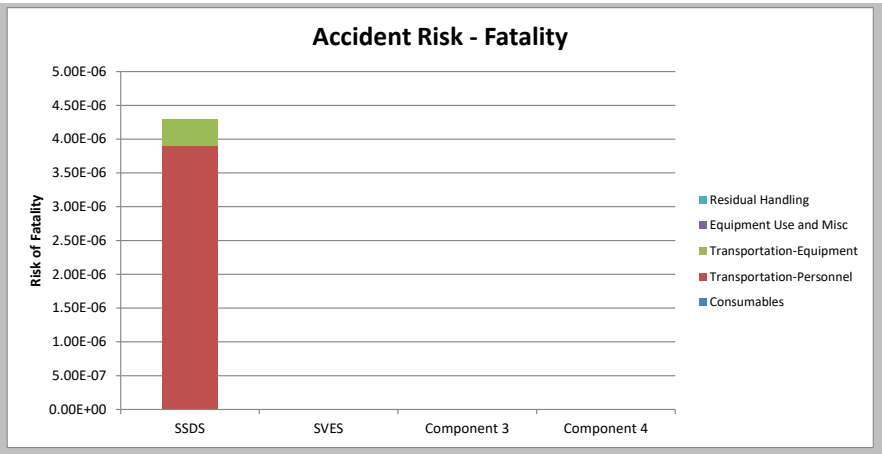

Onsite SOx Emissions
Metric Ton
1.00E+00
9.00E-01
8.00E-01
7.00E-01
6.00E-01
5.00E-01
4.00E-01
3.00E-01
2.00E-01
1.00E-01
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

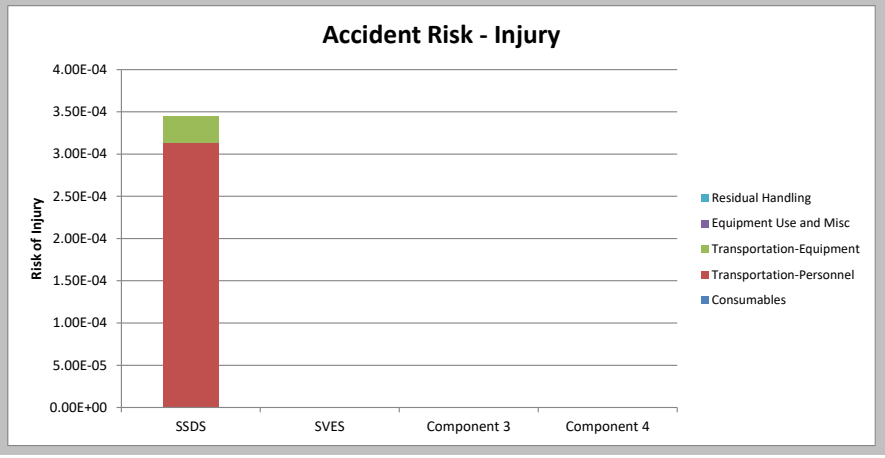

Onsite PM10 Emissions
Metric Ton
1.00E+00
9.00E-01
8.00E-01
7.00E-01
6.00E-01
5.00E-01
4.00E-01
3.00E-01
2.00E-01
1.00E-01
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

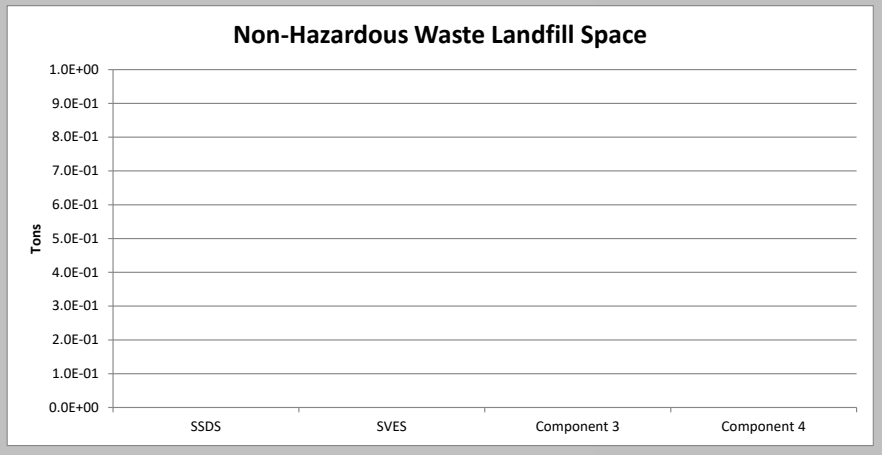

Total NOx Emissions
Metric Ton
2.00E-03
1.80E-03
1.60E-03
1.40E-03
1.20E-03
1.00E-03
8.00E-04
6.00E-04
4.00E-04
2.00E-04
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

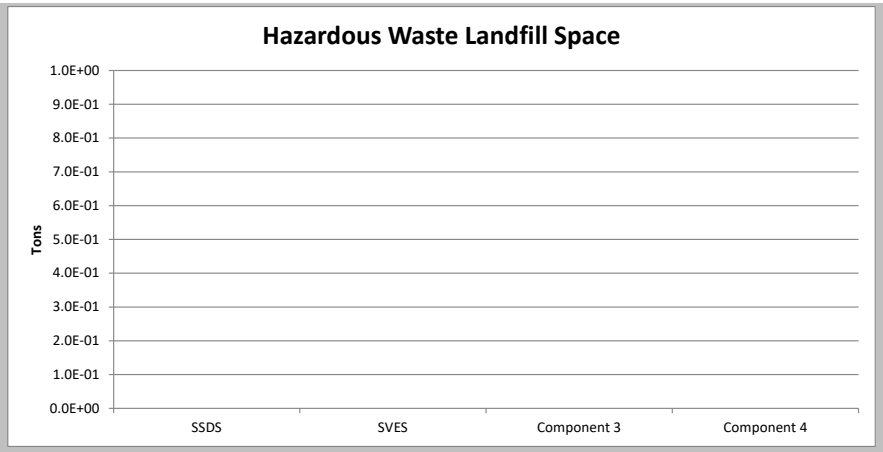

Total SOx Emissions
Metric Ton
1.40E-03
1.20E-03
1.00E-03
8.00E-04
6.00E-04
4.00E-04
2.00E-04
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

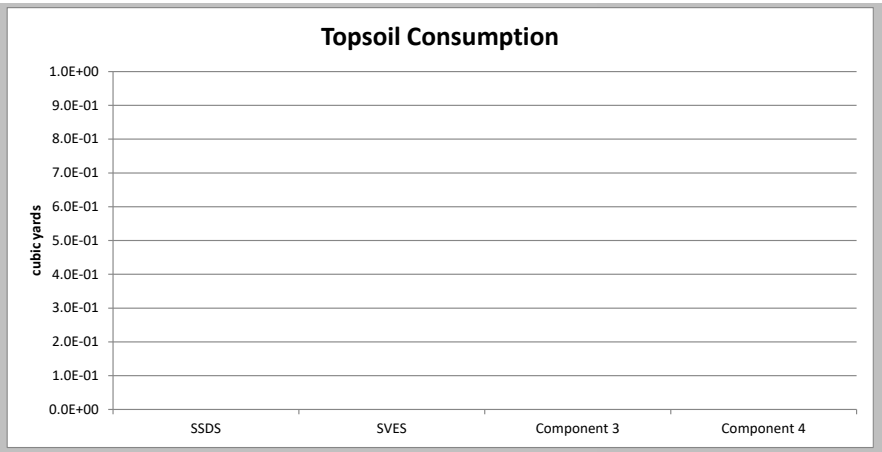

Total PM10 Emissions
Metric Ton
1.80E-04
1.60E-04
1.40E-04
1.20E-04
1.00E-04
8.00E-05
6.00E-05
4.00E-05
2.00E-05
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

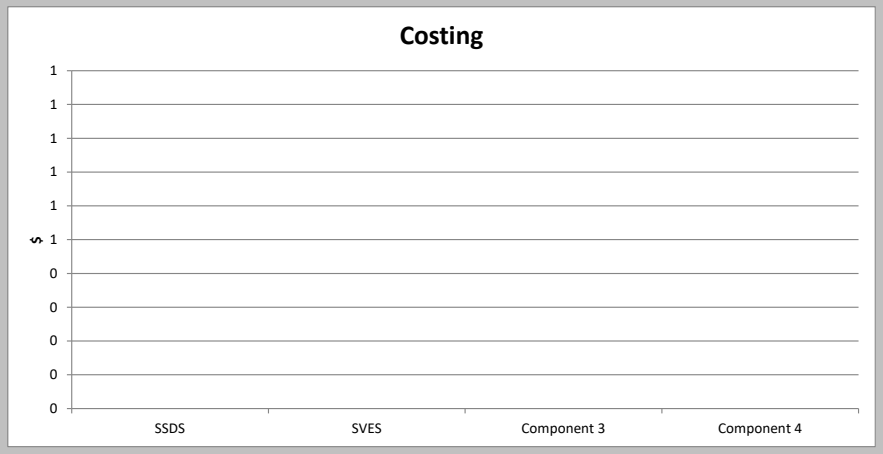

Accident Risk - Fatality
Risk of Fatality
5.00E-06
4.50E-06
4.00E-06
3.50E-06
3.00E-06
2.50E-06
2.00E-06
1.50E-06
1.00E-06
5.00E-07
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables

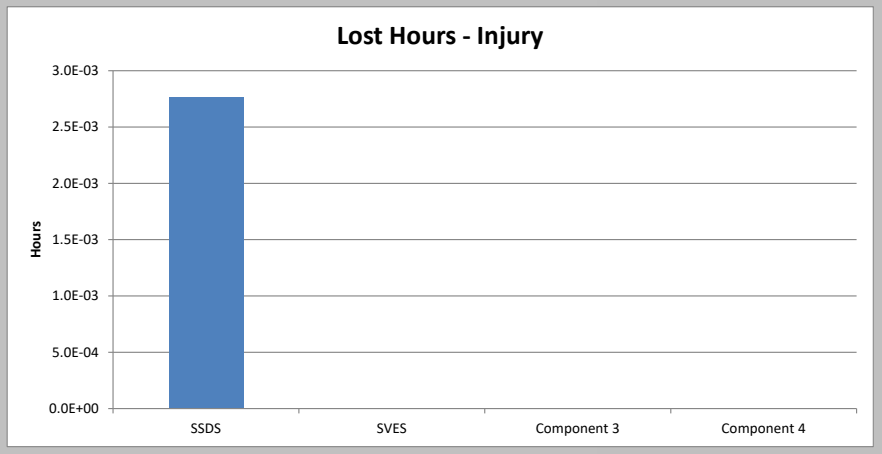

Accident Risk - Injury
Risk of Injury
4.00E-04
3.50E-04
3.00E-04
2.50E-04
2.00E-04
1.50E-04
1.00E-04
5.00E-05
0.00E+00
SSDS
SVES
Component 3
Component 4
Residual Handling
Equipment Use and Misc
Transportation-Equipment
Transportation-Personnel
Consumables


Non-Hazardous Waste Landfill Space
Tons
1.0E+00
9.0E-01
8.0E-01
7.0E-01
6.0E-01
5.0E-01
4.0E-01
3.0E-01
2.0E-01
1.0E-01
0.0E+00
SSDS
SVES
Component 3
Component 4


Hazardous Waste Landfill Space
Tons
1.0E+00
9.0E-01
8.0E-01
7.0E-01
6.0E-01
5.0E-01
4.0E-01
3.0E-01
2.0E-01
1.0E-01
0.0E+00
SSDS
SVES
Component 3
Component 4


Topsoil Consumption
cubic yards
1.0E+00
9.0E-01
8.0E-01
7.0E-01
6.0E-01
5.0E-01
4.0E-01
3.0E-01
2.0E-01
1.0E-01
0.0E+00
SSDS
SVES
Component 3
Component 4


Costing
$
1
1
1
1
1
1
0
0
0
0
0
SSDS
SVES
Component 3
Component 4


Lost Hours - Injury
Hours
3.0E-03
2.5E-03
2.0E-03
1.5E-03
1.0E-03
5.0E-04
0.0E+00
SSDS
SVES
Component 3
Component 4

APPENDIX M

Climate Screening Checklist

Climate Screening Checklist

Background Information

- Project Manager: Levi Curnutte
- Site Name: 458 East 99th Street
- Site Number: C224254
- Site Location: 458 East 99th Street
- Site Elevation (average above sea level): Approximately 25 feet above sea level (from Google Earth)
- ClimAID Region (Responding Climate Change in New York State (ClimAID) - NYSERDA): Region 4 - New York City and Long Island
- Remedial Stage/site classification: Site Management - Class 4

- Contamination - Media Impacted/ Contaminants of Concern: Soil, Groundwater, Soil Vapor/ Indoor Air - COC: VOCs

- Proposed/Current Remedy: Remediation completed, use of on-site SVES/SSDS, institutional controls (easement)

- What is the predicted timeframe of the remedy? Will components of the remedy still be in place in 10+ years? Unknown

- Is the site in proximity to any sensitive receptors? (e.g. wetlands, waterbodies, residential properties, hospitals, schools, drinking water supplies, etc.)

Is the site in a disadvantaged community (DAC) or potential environmental justice area (PEJA) (Use DECinfolocator: DECinfo Locator (ny.gov))?

☒ **Yes** ☐ **No**

If the site is in a DAC or PEJA, will climate impacts be magnified? If yes, list how and why.

☐ **Yes** ☒ **No**

Should thresholds of concern be lowered to account for magnification of impacts? If yes, indicate how lower thresholds will be used in the screening.

☐ **Yes** ☒ **No**

Climate Screening Table*

Potential Climate Hazards	**Relevant to the Site Location** (Y/N/NA)[1]	**Projected Change** (Reference data source/Model)[3]	**Potential to Impact Remedy** (Y/N)	**Is remedy/site already resilient?** (Y/N)[4]
Precipitation	N	N/A-Based on RAPT	N/A	N/A
Temperature[2] (Extreme Heat or Cold Weather Impacts)	Potentially	N-Based on RAPT	N/A	N/A
Sea Level Rise	N	N/A-Based on RAPT	N/A	N/A
Flooding	N	N/A-Based on RAPT	N/A	N/A
Storm Surge	N	N/A-Based on RAPT	N/A	N/A
Wildfire	N	N/A-Based on RAPT	N/A	N/A
Drought	N	N/A-Based on RAPT	N/A	N/A
Storm Severity	N	N/A-Based on RAPT	N/A	N/A
Landslides	N	N/A-Based on RAPT	N/A	N/A
Other Hazards:	Seismic activity	Y-Based on RAPT	Y	Y-visual and audible alarms

* Links to potential data sources can be found on the following page

[1] If the first column is N --> The rest of the columns will be N/A, the hazard is not applicable to the site.

[2] Extreme Heat: periods of three or more days above 90°F- Extreme Cold: Individual days with minimum temperatures at or below 0 degrees F (NYSERDA ClimAID report)

[3] List the projected change in specific terms or units e.g. inches of rain fall, feet of sea level rise, etc.

[4] If final column is Y, provide reasoning, if the final column is N --> Climate Vulnerability Assessment (CVA) required.

Required Next Steps (If no further action is required, provide justification):

No further actions at this time.

Potential Data Sources (not an exhaustive list)- from Superfund Climate Resilience: Vulnerability Assessment | US EPA

NYSERDA ClimAID report- Responding Climate Change in New York State (ClimAID) - NYSERDA

FEMA- National Flood Hazard Layer | FEMA.gov

NOAA- National Storm Surge Risk Maps - Version 3 (noaa.gov)

Department of Agriculture Forest Service Wildfire Risk to Communities

EPA Climate Change Indicators in the United States

EPA Climate Resilience Evaluation & Awareness Tool (CREAT) | U.S. Climate Resilience Toolkit

EPA National Stormwater Calculator

National Integrated Drought Information System U.S. Drought Portal

National Interagency Coordination Center National Interagency Fire Center

National Oceanic and Atmospheric Administration Coastal Services Digital Coast

- Resources to help communities assess coastal hazards, such as the Sea Level Rise Viewer for visualizing community-level impacts of flooding or sea level rise and downloadable LIDAR data

National Oceanic and Atmospheric Administration National Centers for Environmental Information website

National Oceanic and Atmospheric Administration Sea Level Trends

National Weather Service Climate Prediction Center

National Weather Service National Hurricane Center

National Weather Service Sea, Lake, and Overland Surges from Hurricanes (SLOSH)

National Weather Service Storm Surge Hazard Maps

U.S. Federal Government Climate Resilience Toolkit: The Climate Explorer

U.S. Army Corps of Engineers Climate Prepardness and Resilience

U.S. Geological Survey Coastal Change Hazards Portal

U.S. Geological Survey Landslide Hazards Program

U.S. Geological Survey National Ground-water Monitoring Network Data Portal

U.S. Geological Survey National Climate Change Viewer

U.S. Geological Survey National Water Dashboard

U.S. Geological Survey StreamStats

NYS Department of State- Assess | Department of State (ny.gov)

NYSERDA NY Costal Floodplain Mapper- Home Page (ny.gov)

NYSDEC Costal Erosion Hazards- Coastal Areas Regulated By The CEHA Permit Program - NYDEC

NYSDOH Heat Index- health.ny.gov/environmental/weather/vulnerability_index/county_maps.htm

APPENDIX N

Chemical Inventory

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 ROBERT MCSWEENEY Date/Time Prepared 04.10.2025

Preparer's Affiliation OEM Phone No. 631 -

Purpose of Investigation BCP REMEDIAL INV.

1. OCCUPANT:

Interviewed: Y / N

Last Name: MICHELIT First Name: WOLFGANG

Address: 458 E 99TH ST.

County: KINGS

Home Phone: _____ Office Phone: 917 861 5369

Number of Occupants/persons at this location 4-6 Age of Occupants VARIES (ADULTS)

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? _____

If the property is commercial, type?

Business Type(s) WOODWORK SHOP

Does it include residences (i.e., multi-use)? Y / N If yes, how many? _____

Other characteristics:

Number of floors 1 Building age 70 yrs

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

1 FLOOR

Airflow near source

UNKNOWN SOURCE

Outdoor air infiltration

TWO LARGE ROLL-UP DOOR ON NORTH & EAST WALLS

Infiltration into air ducts

UNKNOWN

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 BRICK
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			

NA

NA

Basement/Lowest level depth below grade: N/A (feet)

Identify potential soil vapor entry points and approximate size (e.g., cracks, utility ports, drains)

BATHROOM: 2 DRAINS, 2" METAL PIPE PROTRUDING THROUGH SLAB AT SOUTH CORNER, SLAB - IMPERFECTIONS @ SOUTH SIDE APPRX 3" WIDE RUNNING E → W.

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.

ONE A/C DUCT SPLITTING THE PROPERTY DOWN THE MIDDLE FROM NORTH TO SOUTH W/ NO RETURN DUCTS. IN GOOD CONDITION.

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	
1st Floor	WOODWORKING (BUSINESS HOURS)
2nd Floor	
3rd Floor	
4th Floor	

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? SEE INVENTORY

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? DAILY : SOUTHERN REGION

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: SMELL OF PAINT/THINNERS/STAINING - THE SMELL DISSAPATED AFTER AIR CONDITIONER ACTIVATED

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? WOOD CLEANER/FINISHERS & PAINT

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: _____
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

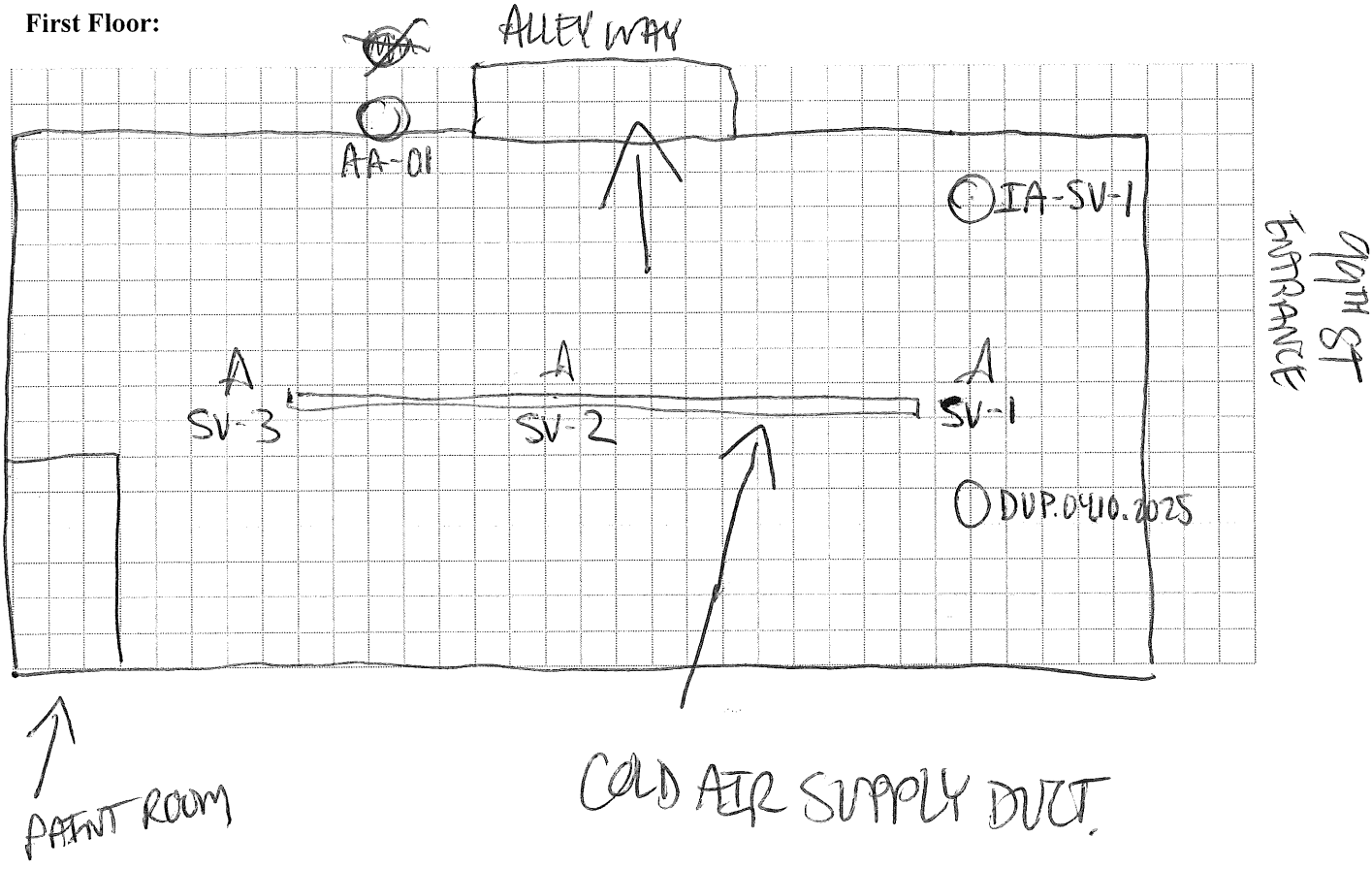
d. Relocation package provided and explained to residents? Y / N

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:

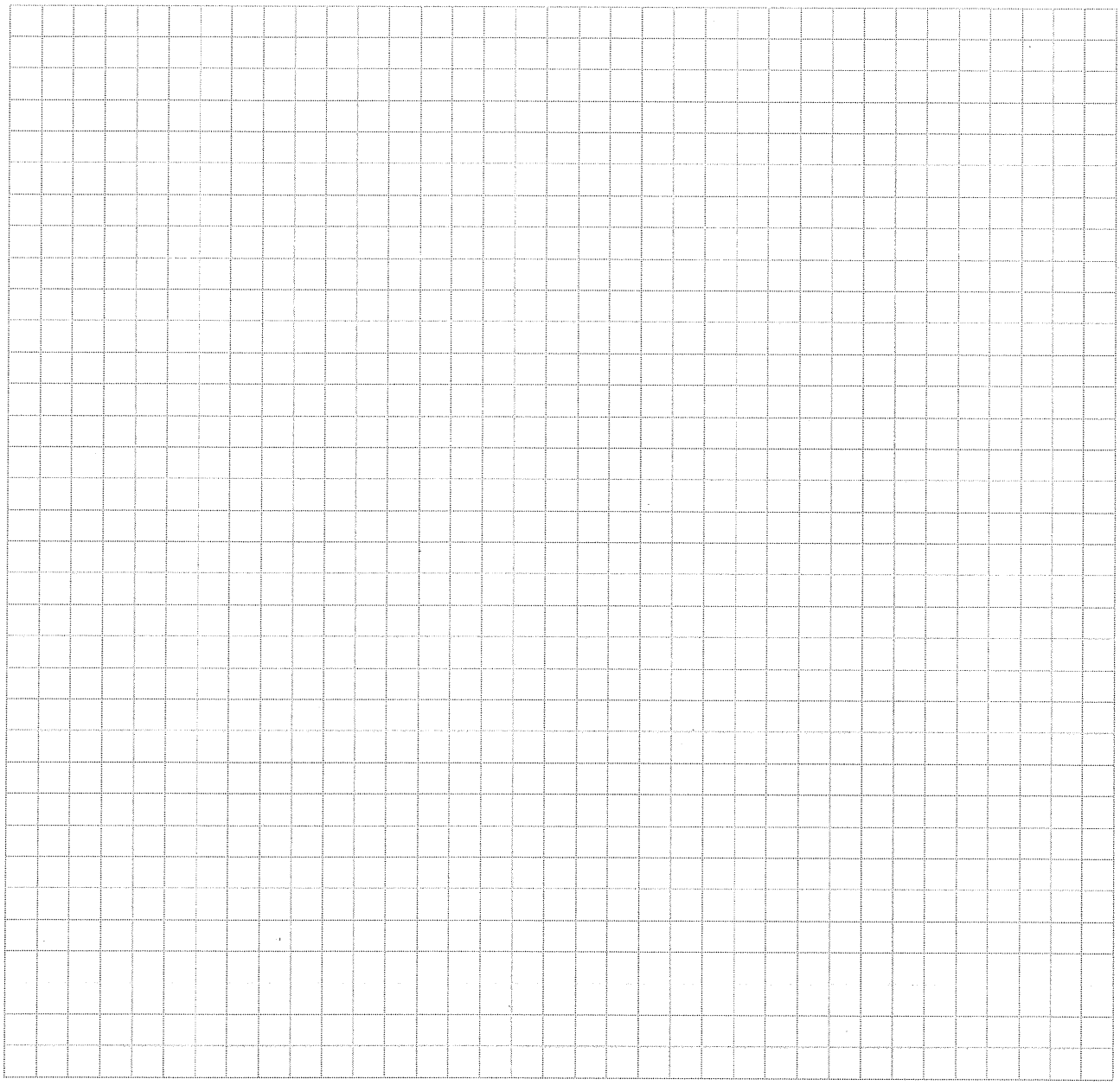
First Floor:



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: _____

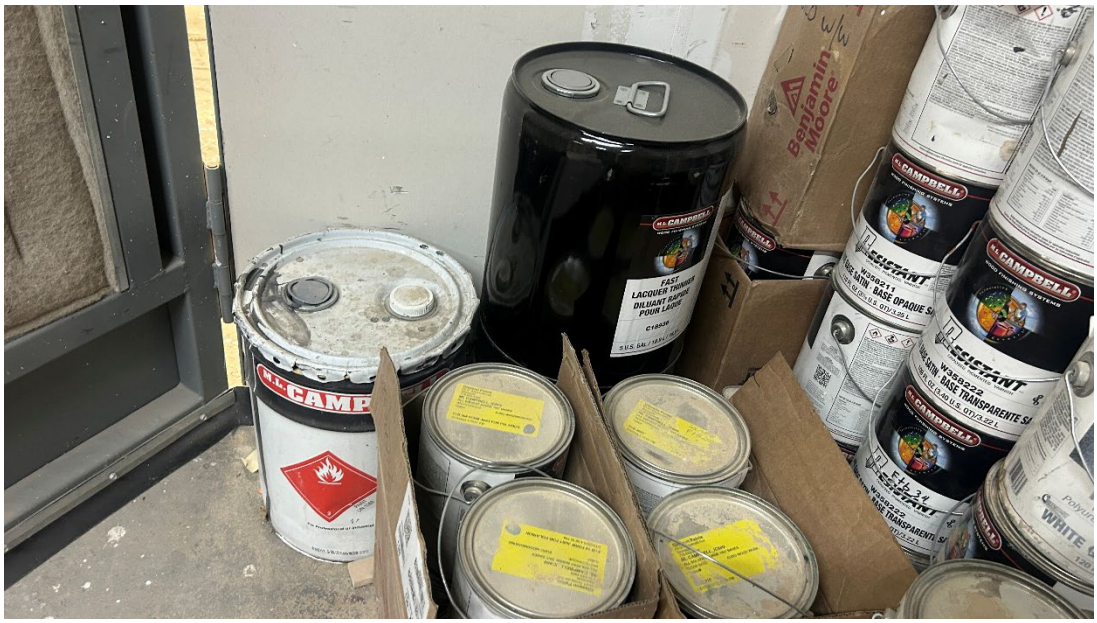
List specific products found in the residence that have the potential to affect indoor air quality.

Location	Product Description	Size (units)	Condition*	Chemical Ingredients	Field Instrument Reading (units)	Photo ** Y / N

* 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.



Photograph 1



Photograph 2



Photograph 3



Photograph 4



Photograph 5



Photograph 6



Photograph 7



Photograph 8



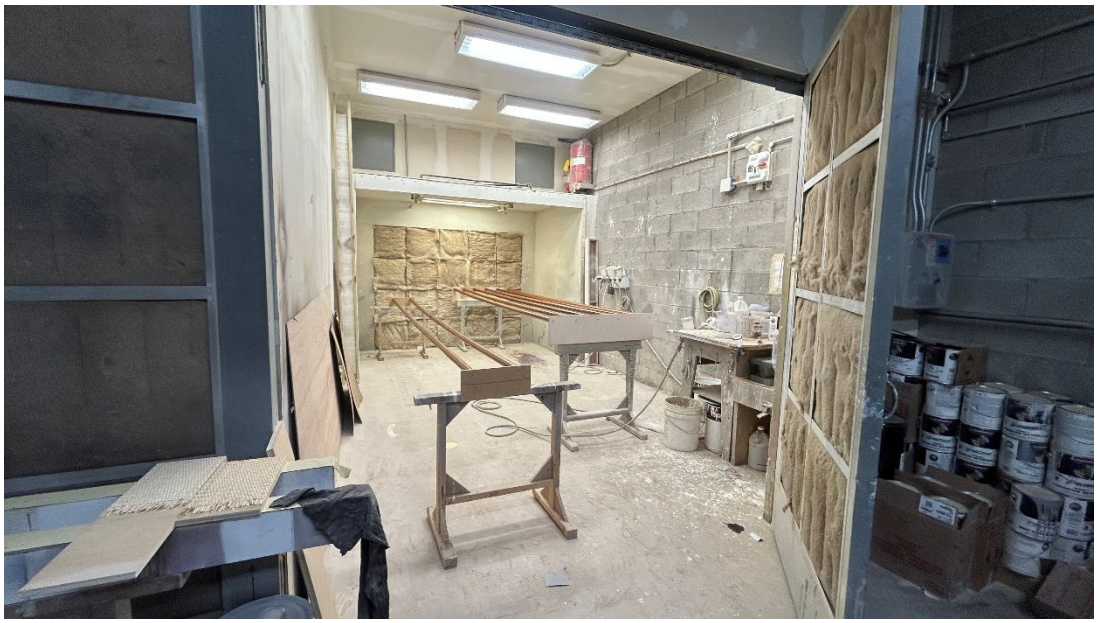
Photograph 9



Photograph 10



Photograph 11



Photograph 12



Photograph 13

Safety Data Sheet

RUST-OLEUM CORPORATION
* Trusted Quality Since 1921 *
www.rustoleum.com

1. Identification

Product Name: PTOUCH 2X +SSPR 6PK FLAT WHITE

Revision Date: 2/21/2023

Product Identifier: 249126

Supercedes Date: 9/21/2022

Recommended Use: Topcoat/Aerosols

Supplier: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Manufacturer: Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, IL 60061
USA

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

2. Hazards Identification

Classification

Symbol(s) of Product



Signal Word
Danger

Possible Hazards
34% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS HAZARD STATEMENTS

Carcinogenicity, category 1B	H350	May cause cancer.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Gases under Pressure; Compressed Gas	H280	Contains gas under pressure; may explode if heated.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
STOT, Single Exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.

GHS LABEL PRECAUTIONARY STATEMENTS

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. NO SMOKING.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.

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/eye protection/face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P321	For specific treatment see label.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C (122°F).
P501	Dispose of contents/container in accordance with local, regional and national regulations.

GHS SDS PRECAUTIONARY STATEMENTS

P363	Wash contaminated clothing before reuse.

3. Composition / Information on Ingredients

HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	25-50	GHS02-GHS07	H225-319-332-336
Propane	74-98-6	10-25	GHS04	H280
n-Butane	106-97-8	2.5-10	GHS04	H280
Titanium Dioxide	13463-67-7	2.5-10	Not Available	Not Available
Hydrotreated Light Distillate	64742-47-8	2.5-10	GHS08	H304
Aliphatic Hydrocarbon	64742-89-8	2.5-10	GHS08	H304-340-350
Hydrous Magnesium Silicate	14807-96-6	2.5-10	Not Available	Not Available
Xylenes (o-, m-, p- Isomers)	1330-20-7	2.5-10	GHS02-GHS07	H226-315-319-332
Kaolin Clay	1332-58-7	1.0-2.5	Not Available	Not Available
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-351-373
Methyl Ethyl Ketoxime	96-29-7	0.1-1.0	GHS05-GHS06-GHS07-GHS08	H302-312-315-317-318-331-336-370-373
Zirconium Acetate	5153-24-2	<0.1	Not Available	Not Available

4. First-Aid Measures

FIRST AID - EYE CONTACT: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed.

FIRST AID - SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists.

FIRST AID - INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

FIRST AID - INGESTION: Aspiration hazard: Do not induce vomiting or give anything by mouth because this material can enter the lungs and cause severe lung damage. Get immediate medical attention. If swallowed, get medical attention.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Alcohol Film Forming Foam, Carbon Dioxide, Dry Chemical, Dry Sand, Water Fog

UNUSUAL FIRE AND EXPLOSION HAZARDS: FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat due to buildup of steam. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

SPECIAL FIREFIGHTING PROCEDURES: Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion. Full protective equipment including self-contained breathing apparatus should be used. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): No Information

6. Accidental Release Measures

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Contain spilled liquid with sand or earth. DO NOT use combustible materials such as sawdust. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Remove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers. Ventilate area, isolate spilled material, and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations.

7. Handling and Storage

HANDLING: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only in a well-ventilated area. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid contact with eyes, skin and clothing.

STORAGE: Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition. Contents under pressure. Do not expose to heat or store above 120°F (49°C). Avoid excess heat. Product should be stored in tightly sealed containers and protected from heat, moisture, and foreign materials.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	30.0	250 ppm	500 ppm	1000 ppm	N.E.
Propane	74-98-6	25.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
Titanium Dioxide	13463-67-7	10.0	0.2 mg/m3	N.E.	15 mg/m3	N.E.
Hydrotreated Light Distillate	64742-47-8	10.0	N.E.	N.E.	N.E.	N.E.
Aliphatic Hydrocarbon	64742-89-8	5.0	N.E.	N.E.	N.E.	N.E.
Hydrous Magnesium Silicate	14807-96-6	5.0	2 mg/m3	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	20 ppm	N.E.	100 ppm	N.E.
Kaolin Clay	1332-58-7	5.0	2 mg/m3	N.E.	15 mg/m3	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Methyl Ethyl Ketoxime	96-29-7	1.0	10 ppm	N.E.	N.E.	N.E.
Zirconium Acetate	5153-24-2	0.1	5 mg/m3	10 mg/m3	5 mg/m3	N.E.

PERSONAL PROTECTION

ENGINEERING CONTROLS: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof ventilation equipment. Provide general dilution of local exhaust ventilation in volume and pattern to keep TLV of hazardous ingredients below acceptable limits. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

RESPIRATORY PROTECTION: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

SKIN PROTECTION: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

EYE PROTECTION: Use safety eyewear designed to protect against splash of liquids.

OTHER PROTECTIVE EQUIPMENT: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications. Refer to safety supervisor or industrial hygienist for further information regarding personal protective equipment and its application.

HYGIENIC PRACTICES: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Appearance:	Aerosolized Mist	**Physical State:**	Liquid
Odor:	Solvent Like	**Odor Threshold:**	N.E.
Specific Gravity:	0.801	**pH:**	N.A.
Freeze Point, °C:	N.D.	**Viscosity:**	N.D.
Solubility in Water:	Slight	**Partition Coefficient, n-octanol/ water:**	N.D.
Decomposition Temp., °C:	N.D.		
Boiling Range, °C:	-37 - 537	**Explosive Limits, vol%:**	0.9 - 13.0
Flammability:	Supports Combustion	**Flash Point, °C:**	-96
Evaporation Rate:	Faster than Ether	**Auto-Ignition Temp., °C:**	N.D.
Vapor Density:	Heavier than Air	**Vapor Pressure:**	N.D.

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: By open flame, carbon monoxide and carbon dioxide. When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

11. Toxicological Information

EFFECTS OF OVEREXPOSURE - EYE CONTACT: Causes Serious Eye Irritation

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: Substance may cause slight skin irritation. Prolonged or repeated contact may cause skin irritation.

EFFECTS OF OVEREXPOSURE - INHALATION: Harmful if inhaled. High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist. High vapor concentrations are irritating to the eyes, nose, throat and lungs. Prolonged or excessive inhalation may cause respiratory tract irritation. Constituents of this product include crystalline silica dust which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

EFFECTS OF OVEREXPOSURE - INGESTION: Harmful if swallowed.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: May cause central nervous system disorder (e.g., narcosis involving a loss of coordination, weakness, fatigue, mental confusion, and blurred vision) and/or damage. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Contains Titanium Dioxide. Titanium Dioxide is listed as a Group 2B-"Possibly carcinogenic to humans" by IARC. No significant exposure to Titanium Dioxide is thought to occur during the use of products in which Titanium Dioxide is bound to other materials, such as in paints during

brush application or drying. Risk of overexposure depends on duration and level of exposure to dust from repeated sanding of surfaces or spray mist and the actual concentration of Titanium Dioxide in the formula. (Ref: IARC Monograph, Vol. 93, 2010)

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
13463-67-7	Titanium Dioxide	>10000 mg/kg Rat	6000	N.E.
64742-47-8	Hydrotreated Light Distillate	>5000 mg/kg Rat	>2000 mg/kg Rabbit	>5000 mg/L Rat
64742-89-8	Aliphatic Hydrocarbon	N.E.	3000 mg/kg Rabbit	N.E.
14807-96-6	Hydrous Magnesium Silicate	6000	N.E.	30
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat
1332-58-7	Kaolin Clay	5500 mg/kg	>5000 mg/kg Rat	25
100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
96-29-7	Methyl Ethyl Ketoxime	930 mg/kg Rat	1100 mg/kg Rabbit	>4.83 mg/L Rat

N.E. - Not Established

12. Ecological Information

ECOLOGICAL INFORMATION: Product is a mixture of listed components. Product is a mixture of listed components.

13. Disposal Information

DISPOSAL: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	N.A.
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	Aerosols
Hazard Class:	N.A.	2	2.1	N.A.
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Gas under pressure, Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.

Xylenes (o-, m-, p- Isomers)	1330-20-7
Ethylbenzene	100-41-4
Barite (Ba(SO4))	13462-86-7
Pigment Blue 15	147-14-8

Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information

HMIS RATINGS

Health: 2* **Flammability:** 4 **Physical Hazard:** 0 **Personal Protection:** X

NFPA RATINGS

Health: 2 **Flammability:** 4 **Instability:** 0

Maximum Incremental Reactivity: 0.78

SDS REVISION DATE: 2/21/2023

REASON FOR REVISION:
Product Composition Changed
Substance Regulatory CAS Number Changed
Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Corporation believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Corporation makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

SAFETY DATA SHEET

1. Identification

Product identifier	**Ultra Cutting Creme**	
Other means of identification		
Product Code	1319	
Recommended use	Compound, Polishing Creme	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/Distributor information		
Manufacturer		
Company name	Presta Products	
Address	361 Fairview Ave Barberton, OH 44203 United States	
Telephone	Phone	800-253-2526
	Fax	330-777-8317
Website	www.prestaproducts.com	
E-mail	msdsinfo@malcopro.com	
Contact person	Technical Department	
Emergency phone number	Phone	1-800-424-9300

2. Hazard(s) identification

Physical hazards	Flammable liquids	Category 4
Health hazards	Acute toxicity, oral	Category 5
	Acute toxicity, inhalation	Category 5
	Serious eye damage/eye irritation	Category 2A
	Specific target organ toxicity, repeated exposure	Category 2
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	

Label elements



Signal word	Warning
Hazard statement	Combustible liquid. May be harmful if swallowed. Causes serious eye irritation. May be harmful if inhaled. May cause damage to organs through prolonged or repeated exposure.
Precautionary statement	
Prevention	Keep away from flames and hot surfaces-No smoking. Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection.
Response	IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use appropriate media to extinguish.
Storage	Store in a well-ventilated place. Keep cool.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.

Supplemental information 62.75% of the mixture consists of component(s) of unknown acute dermal toxicity. 55.81% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 55.81% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Aluminum Oxide; Alumina		1344-28-1	30 - < 40
Solvent Naphtha (Petroleum), Medium Aliph.		64742-88-7	10 - < 20
Glycerol		56-81-5	5 - < 10
KEROSENE		8008-20-6	5 - < 10
Octamethylcyclotetrasiloxane		556-67-2	< 0.1
Tetrasodium Pyrophosphate		7722-88-5	< 0.1
Other components below reportable levels			40 - < 50

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

5. Fire-fighting measures

Suitable extinguishing media Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Combustible liquid.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Use water spray to reduce vapors or divert vapor cloud drift. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with eyes. Avoid prolonged exposure. When using, do not eat, drink or smoke. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Type	Value	Form
Aluminum Oxide; Alumina (CAS 1344-28-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Glycerol (CAS 56-81-5)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
KEROSENE (CAS 8008-20-6)	TWA	200 mg/m3	Non-aerosol.

US. NIOSH: Pocket Guide to Chemical Hazards

Components	Type	Value
KEROSENE (CAS 8008-20-6)	TWA	100 mg/m3
Tetrasodium Pyrophosphate (CAS 7722-88-5)	TWA	5 mg/m3

US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value
Octamethylcyclotetrasiloxane (CAS 556-67-2)	TWA	10 ppm

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US ACGIH Threshold Limit Values: Skin designation

KEROSENE (CAS 8008-20-6) Can be absorbed through the skin.

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station.

Individual protection measures, such as personal protective equipment

Eye/face protection	Chemical respirator with organic vapor cartridge and full facepiece.
Skin protection	
Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.
Respiratory protection	Chemical respirator with organic vapor cartridge and full facepiece.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	When using do not smoke. Keep away from food and drink. 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 to remove contaminants.

9. Physical and chemical properties

Appearance	Viscous.
Physical state	Liquid.
Form	Liquid. Cream.
Color	Yellow.
Odor	Vanilla
Odor threshold	Not available.
pH	8.2 - 9.2
Melting point/freezing point	Not available.
Initial boiling point and boiling range	3734.24 °F (2056.8 °C) estimated
Flash point	145.0 °F (62.8 °C)
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	0.7 % estimated
Flammability limit - upper (%)	5 % estimated
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.06 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	150000 - 295000 cP
Viscosity temperature	68 °F (20 °C)
Other information	
Density	10.64 lbs/gal
Explosive properties	Not explosive.
Flammability class	Combustible IIIA estimated
Kinematic viscosity	156703 cSt
Kinematic viscosity temperature	68 °F (20 °C)
Oxidizing properties	Not oxidizing.
VOC	16.95 %

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	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents. Chlorine.
Hazardous decomposition products	No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May be harmful if inhaled. May cause damage to organs through prolonged or repeated exposure by inhalation.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Causes serious eye irritation.
Ingestion	May be harmful if swallowed.
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity	May be harmful if inhaled. May be harmful if swallowed.
Skin corrosion/irritation	Prolonged skin contact may cause temporary irritation.
Serious eye damage/eye irritation	Causes serious eye irritation.

Respiratory or skin sensitization

Respiratory sensitization	Not a respiratory sensitizer.
Skin sensitization	This product is not expected to cause skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	Not an aspiration hazard.
Chronic effects	May cause damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

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
Glycerol (CAS 56-81-5)			
Aquatic			
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	51000 - 57000 mg/l, 96 hours
Tetrasodium Pyrophosphate (CAS 7722-88-5)			
Aquatic			
Fish	LC50	Western mosquitofish (Gambusia affinis)	1380 mg/l, 96 hours

Persistence and degradability No data is available on the degradability of this product.

Bioaccumulative potential No data available.

Partition coefficient n-octanol / water (log Kow)

Glycerol -1.76

Mobility in soil No data available.

Other adverse effects The product contains volatile organic compounds which have a photochemical ozone creation potential.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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 established.

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)

Octamethylcyclotetrasiloxane (CAS 556-67-2) 1.0 % One-Time Export Notification only.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous chemical Yes

Classified hazard categories	Flammable (gases, aerosols, liquids, or solids) Acute toxicity (any route of exposure) Serious eye damage or eye irritation Specific target organ toxicity (single or repeated exposure)

SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.
Aluminum Oxide; Alumina	1344-28-1	30 - < 40

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.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Glycerol (CAS 56-81-5) Other Flavoring Substances with OSHA PEL's

US state regulations

California Proposition 65

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

KEROSENE (CAS 8008-20-6)
Octamethylcyclotetrasiloxane (CAS 556-67-2)

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

*A "Yes" indicates that all components of this product comply 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	10-10-2014
Revision date	04-27-2018
Version #	06
Disclaimer	Presta Products 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 provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.
Revision information	This document has undergone significant changes and should be reviewed in its entirety.

SAFETY DATA SHEET
KS KWIK STRIP PAINT & VARNISH STRIPPER

Printed: 09/17/2018
Revision: 09/17/2018
Supersedes Revision: 08/16/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: KS KWIK STRIP PAINT & VARNISH STRIPPER

Company Name: W. M. Barr
2105 Channel Avenue
Memphis, TN 38113

Phone Number: (901)775-0100

Web site address: www.wmbarr.com

Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
Information: W.M. Barr Customer Service (800)398-3892

Intended Use: Paint/Varnish Remover

Product Code: GKWS960, GKWS960W, QKWS961, QKWS961W

2. HAZARDS IDENTIFICATION

Flammable Liquids, Category 3
Acute Toxicity: Inhalation, Category 4
Skin Corrosion/Irritation, Category 2
Serious Eye Damage/Eye Irritation, Category 2
Carcinogenicity, Category 2
Specific Target Organ Toxicity (repeated exposure), Category 2



GHS Signal Word: **Warning**

GHS Hazard Phrases:
H226: Flammable liquid and vapor.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H332: Harmful if inhaled.
H351: Suspected of causing cancer if inhaled.
H373: May cause damage to organs through prolonged or repeated exposure if inhaled.(ears)

GHS Precaution Phrases:
P201: Obtain special instructions before use.
P202: Do not handle until all safety precautions have been read and understood.
P210: Keep away from {heat/sparks/open flames/hot surfaces}. - No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P260: Do not breathe gas/mist/vapors/spray.
P264: Wash hands thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P280: Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases:
P302+352: IF ON SKIN: Wash with plenty of soap and water.
P303+361+353: IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+313: IF exposed or concerned: Get medical attention/advice.
P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P314: Get medical attention/advice if you feel unwell.
P321: Specific treatment see label.
P332+313: If skin irritation occurs, get medical advice/attention.
P337+313: If eye irritation persists, get medical advice/attention.
P362: Take off contaminated clothing and wash before re-use.
P370+378: In case of fire, use dry chemical powder to extinguish.

GHS Storage and Disposal Phrases: P403+235: Store in cool/well-ventilated place.
P405: Store locked up.
P501: Dispose of contents/container according to local, state and federal regulations.

OSHA Regulatory Status: This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic): No data available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Hazardous Components (Chemical Name)	Concentration
616-38-6	Dimethyl carbonate	30.0 -60.0 %
67-68-5	Methyl sulfoxide {Dimethyl sulfoxide; DMSO}	10.0 -30.0 %
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	10.0 -30.0 %
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	1.0 -5.0 %
68439-46-3	Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated)	0.1 -1.0 %
98-82-8	Cumene {Benzene, 1-Methylethyl-; Isopropylbenzene}	0.1 -1.0 %
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	0.1 -1.0 %
110-91-8	Morpholine {Diethylene imidoxide}	0.1 -1.0 %

Additional Chemical Information Specific percentage of composition is being withheld as a trade secret.

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

Skin:
Immediately begin washing the skin thoroughly with large amounts of water and mild soap, if available, while removing contaminated clothing. Seek medical attention if irritation persists.

Eyes:
Immediately begin to flush eyes with water, remove any contact lens. Continue to flush the eyes for at least 15 minutes, then seek immediate medical attention.

Inhalation:
Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.

Ingestion:
If swallowed, do NOT induce vomiting. Seek immediate medical attention. Call a physician, hospital emergency room, or poison control center immediately. Never give anything by mouth to an unconscious person.

Signs and Symptoms Of Exposure: See Section 2.

Note to Physician:

5. FIRE FIGHTING MEASURES

	1C
Flash Pt:	74.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
Explosive Limits:	LEL: No data. UEL: No data.
Autoignition Pt:	No data.
Suitable Extinguishing Media:	Use carbon dioxide, dry powder, or alcohol resistant foam.
Unsuitable Extinguishing Media:	Do not use straight streams of water. If water is used, use a water spray or fog.
Fire Fighting Instructions:	Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.
Flammable Properties and Hazards:	Danger! Flammable. Keep away from heat, sparks, flame, and all other sources of ignition. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and all other sources of ignition during use and until all vapors are gone. Beware of static electricity that may be generated by synthetic clothing and other sources.

6. ACCIDENTAL RELEASE MEASURES

Steps To Be Taken In Case Material Is Released Or Spilled:

Vapors may cause flash fire or ignite explosively.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area. Use non-sparking tools. Use proper bonding and grounding methods for all equipment and processes. Keep out of waterways and bodies of water. Be cautious of vapors collecting in small enclosed spaces, sewers, low lying areas, confined spaces, etc.

Small spills: Take up with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large spills: Dike far ahead of spill for later disposal.

Waste Disposal: Dispose in accordance with applicable local, state and federal regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Do not use this product near any source of heat or open flame, furnace areas, pilot lights, stoves, etc.

Do not use in small enclosed spaces, such as basements and bathrooms. Vapors can accumulate and explode if ignited.

Do not spread this product over large surface areas because fire and health safety risks will increase dramatically.

Precautions To Be Taken in Storing: Store in a cool place in original container and protect from sunlight. Exposure to high temperatures or prolonged exposure to sun may cause can to leak or swell. Do not store near flames or at elevated temperatures.

Keep container tightly closed when not in use.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Partial Chemical Name	OSHA TWA	ACGIH TWA	Other Limits
616-38-6	Dimethyl carbonate	PEL: 1000 ppm	TLV: 500 ppm STEL: 750 ppm	No data.
67-68-5	Methyl sulfoxide {Dimethyl sulfoxide; DMSO}	No data.	No data.	No data.
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	PEL: 100 ppm STEL: 500 ppm/(10min) CEIL: 300 ppm	TLV: 100 ppm STEL: 150 ppm	No data.
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	PEL: 100 ppm	TLV: 20 ppm STEL: 125 ppm	No data.
68439-46-3	Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated)	No data.	No data.	No data.
98-82-8	Cumene {Benzene, 1-Methylethyl-; Isopropylbenzene}	PEL: 50 ppm	TLV: 50 ppm	No data.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	PEL: 200 ppm	TLV: 200 ppm STEL: 250 ppm	No data.
110-91-8	Morpholine {Diethylene imidoxide}	PEL: 20 ppm	TLV: 20 ppm	No data.

Respiratory Equipment (Specify Type): For use in areas with inadequate ventilation or fresh air, wear a properly maintained and properly fitted NIOSH approved self-contained breathing apparatus or powered air supply respirator or loose fitting hood.

For OSHA controlled work places and other regular users - Use only with adequate ventilation under engineered air control systems designed to prevent exceeding the appropriate TLV.

A dust mask does not provide protection against vapors.

Eye Protection: Chemical goggles, or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Chemical goggles or face shields are recommended when splashing or spraying of chemical is possible. A faceshield provides more protection to help reduce chemical contact to the face and eyes.

Protective Gloves: Wear gloves with as much resistance to the chemical ingredients as possible. Laminate film gloves offer the best protection. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing: Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Engineering Controls (Ventilation etc.):	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use only with adequate ventilation to prevent buildup of vapors. If the work area is not well ventilated, DO NOT use this product. Do not use in areas where vapors can accumulate and concentrate, such as basements, bathrooms or small enclosed areas. Whenever possible, use outdoors in an open air area. If using indoors open all windows and doors and maintain a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea or eye-watering -- STOP -- ventilation is inadequate. Leave area immediately and move to fresh air.
Work/Hygienic/Maintenance Practices:	Wash hands thoroughly after use and before eating, drinking, or smoking. Do not eat, drink, or smoke in the work area. Facilities storing or handling this material should be equipped with an emergency eyewash and safety shower.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	[ ] Gas [X] Liquid [ ] Solid
Appearance and Odor:	Opaque viscous, aromatic odor
Melting Point:	No data.
Boiling Point:	> 99.90 F
Autoignition Pt:	No data.
Flash Pt:	74.00 F Method Used: Setaflash Closed Cup (Rapid Setaflash)
Explosive Limits:	LEL: No data. UEL: No data.
Specific Gravity (Water = 1):	1.001 - 1.025
Density:	8.330 - 8.530 LB/GL
Vapor Pressure (vs. Air or mm Hg):	No data.
Vapor Density (vs. Air = 1):	No data.
Evaporation Rate:	< 1 (BuAC=1)
Solubility in Water:	No data.
Solubility Notes:	Appreciable
Viscosity:	> 250 cSt
Percent Volatile:	97.08 % by weight.
VOC / Volume:	48.8700 % WT

10. STABILITY AND REACTIVITY

Stability:	Unstable [ ] Stable [X]
Conditions To Avoid - Instability:	Stable
Incompatibility - Materials To Avoid:	Bases, oxygen, sodium, potassium, strong oxidizers, reactive metals, strong acids
Hazardous Decomposition or Byproducts:	Carbon monoxide, carbon dioxide
Possibility of Hazardous Reactions:	Will occur [ ] Will not occur [X]

Conditions To Avoid - Hazardous Reactions: Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicological Information: This product has not been tested as a whole. Refer to section 2 for acute and chronic effects.

Chronic Toxicological Effects:

CAS# 1330-20-7:
Acute toxicity, LC50, Inhalation, Rat, 5000. PPM, 4 H.
Result:
Behavioral: Muscle contraction or spasticity.
Lungs, Thorax, or Respiration:Other changes.
- Raw Material Data Handbook, Vol.1: Organic Solvents, 1974., National Assoc. of Printing Ink Research Institute, Francis McDonald Sinclair Memorial Labor, Lehigh Univ., Bethlehem, PA 18015, Vol/p/yr: 1,123, 1974

Standard Draize Test, Eyes, Species: Rabbit, 5.000 MG, 24 H, Severe.
Result:
Behavioral: General anesthetic.
Behavioral: Somnolence (general depressed activity).
Behavioral: Irritability.
- "Sbornik Vysledku Toxixologickeho Vysetreni Latek A Pripravku," , Institut Pro Vychovu Vedoucicn P, Marhold, J.V., Institut Pro Vychovu Vedoucicn, Pracovniku Chemickeho, Prumyclu Praha Czechoslovakia, Vol/p/yr: -,24, 1972

CAS# 100-41-4:
Tumorigenic Effects:, TCLo, Inhalation, Rat, 750.0 ppm.
Result:
Tumorigenic: Carcinogenic by RTECS criteria.
Kidney, Ureter, Bladder: Tumors.

Standard Draize Test, Eyes, Species: Rabbit, 500.0 MG, Severe.
Result:
Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).
Effects on Fertility: Litter size (e.g.; # fetuses per litter; measured before birth).
Effects on Embryo or Fetus: Fetotoxicity (except death, e.g., stunted fetus).
- American Journal of Ophthalmology., Ophthalmic Pub. Co., 435 N. Michigan Ave., Suite 1415, Chicago, IL 60611, Vol/p/yr: 29,1363, 1946

CAS# 68439-46-3:
Acute toxicity, LD50, Oral, Rat, 1378. MG/KG.
Result:
Behavioral: Somnolence (general depressed activity).
Behavioral: Ataxia.
Gastrointestinal:Hypermotility, diarrhea.
- Journal of the American College of Toxicology., Mary Ann Liebert, Inc., New York, NY, Vol/p/yr: 10(4),427, 1991

This product has not been tested as a whole.

Carcinogenicity/Other Information: IARC 2B - Possibly Carcinogenic to Humans
IARC 3: Not Classifiable as to Carcinogenicity in Humans

ACGIH A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans ACGIH A4 - Not Classifiable as a Human Carcinogen.

CAS #	Hazardous Components (Chemical Name)	NTP	IARC	ACGIH	OSHA
616-38-6	Dimethyl carbonate	n.a.	n.a.	n.a.	n.a.
67-68-5	Methyl sulfoxide {Dimethyl sulfoxide; DMSO}	n.a.	n.a.	n.a.	n.a.
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	n.a.	3	A4	n.a.
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	n.a.	2B	A3	n.a.
68439-46-3	Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated)	n.a.	n.a.	n.a.	n.a.
98-82-8	Cumene {Benzene, 1-Methylethyl-; Isopropylbenzene}	Possible	2B	n.a.	n.a.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	n.a.	n.a.	n.a.	n.a.
110-91-8	Morpholine {Diethylene imidoxide}	n.a.	3	A4	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a whole.

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: Dispose in accordance with all applicable local, state, and federal regulations.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Paint related material
DOT Hazard Class: 3 FLAMMABLE LIQUID
UN/NA Number: UN1263 **Packing Group:** III



Additional Transport Information: The shipper / supplier may apply one of the following exceptions: Combustible Liquid, Consumer Commodity, Limited Quantity, Viscous Liquid, Does Not Sustain Combustion, or others, as allowed under 49CFR Hazmat Regulations. Please consult 49CFR Subchapter C to ensure that subsequent shipments comply with these exceptions.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Hazardous Components (Chemical Name)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
616-38-6	Dimethyl carbonate	No	No	No
67-68-5	Methyl sulfoxide {Dimethyl sulfoxide; DMSO}	No	No	No
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	No	Yes 100 LB	Yes
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	No	Yes 1000 LB	Yes
68439-46-3	Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated)	No	No	No
98-82-8	Cumene {Benzene, 1-Methylethyl-; Isopropylbenzene}	No	Yes 5000 LB	Yes
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	No	Yes 5000 LB	Yes

110-91-8	Morpholine {Diethylene imidoxide}	No	No	No

CAS #	Hazardous Components (Chemical Name)	Other US EPA or State Lists
616-38-6	Dimethyl carbonate	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
67-68-5	Methyl sulfoxide {Dimethyl sulfoxide; DMSO}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
1330-20-7	Xylene (mixed isomers) {Benzene, dimethyl-}	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: No
100-41-4	Ethylbenzene {Ethylbenzol; Phenylethane}	CAA HAP,ODC: HAP; CWA NPDES: Yes; TSCA: Yes - Inventory; CA PROP.65: Yes: Canc.
68439-46-3	Alcohol ethoxylate (Alcohols, C9-11, Ethoxylated)	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
98-82-8	Cumene {Benzene, 1-Methylethyl-; Isopropylbenzene}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: Canc.
67-56-1	Methanol {Methyl alcohol; Carbinol; Wood alcohol}	CAA HAP,ODC: HAP; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: Yes: RDTox.
110-91-8	Morpholine {Diethylene imidoxide}	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Additional Regulatory Information

This product is regulated by the United States Consumer Product Safety Commission and is subject to certain labeling requirements under the Federal Hazardous Substances Act. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS). The product label also includes other important information, including directions for use, and should always be read in its entirety prior to using the product.

16. OTHER INFORMATION

Revision Date: 09/17/2018

Preparer Name: W.M. Barr EHS Dept (901)775-0100

Additional Information About This Product: No data available.

Company Policy or Disclaimer:

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Safety Data Sheet

1. Identification

Product Information: M100-0229

Product Name: ULTRA® CLASSIC TONER BROWN MAHOGANY

Recommended Use: Surface Preparation or Protection

Supplied by:
Mohawk Finishing Products
Division of RPM Industrial Coatings Group
3194 B Hickory Blvd
Hudson, NC 28638
USA

Company Phone No: (800) 522-8266

Emergency Phone No. CHEMTREC: (800) 424-9300

International Emergency No. CHEMTREC: (703) 527-3887 (Collect calls are accepted)

2. Hazards Identification

GHS Classification
Comp. Gas, Eye Irrit. 2A, Fl Aer, 1, STOT RE 2, STOT SE 3 NE

Symbol(s) of Product



Signal Word
Danger

Possible Hazards
22% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Aerosol, category 3	H229	Pressurized container: may burst if heated.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.

GHS SDS PRECAUTIONARY STATEMENTS

P210	Keep away from heat. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P280	Wear eye protection/ face protection.
P405	Store locked up.

P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P312	Call a POISON CENTER or doctor if you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P337+P313	If eye irritation persists: Get medical advice/attention.

3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
acetone	67-64-1	25-40	GHS02-GHS07	H225-302-319-332-336
propane	74-98-6	10-25	GHS02-GHS04	H220-280
isobutyl acetate	110-19-0	2.5-10	GHS02-GHS07	H225-332
ethyl acetate	141-78-6	2.5-10	GHS02-GHS07	H225-319-332-336
n-butyl acetate	123-86-4	2.5-10	GHS02-GHS07	H226-336
n-butane	106-97-8	2.5-10	GHS02-GHS04	H220-280
toluene	108-88-3	2.5-10	GHS02-GHS07-GHS08	H225-304-315-332-336-373
ethanol	64-17-5	2.5-10	GHS02	H225
cellulose nitrate, cellulose ester	9004-70-0	2.5-10	GHS01	H201
isopropanol	67-63-0	1.0-2.5	GHS02-GHS07	H225-302-319-336
pm acetate	108-65-6	1.0-2.5	GHS02-GHS07	H226-332
butyl cellosolve	111-76-2	0.1-1.0	GHS06-GHS07	H302-315-319-330
ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-373

The exact percentage (concentration) of ingredients is being withheld as a trade secret.

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures



FIRST AID - EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

FIRST AID - SKIN CONTACT: IF ON SKIN: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention.

FIRST AID - INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

FIRST AID - INHALATION: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

5. Fire-fighting Measures

SPECIAL FIREFIGHTING PROCEDURES: Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazards while extinguishing the fire. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers. Use water spray to disperse vapors if a spill or leak has not ignited. DO NOT extinguish a fire resulting from the flow of flammable liquid until the flow of the liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished.

FIREFIGHTING EQUIPMENT: This is a NFPA/OSHA Category 1 flammable aerosol. Follow NFPA 30B, Chapter 4 for fire protection

and fire suppression. Use a dry chemical, carbon dioxide, or similar ABC fire extinguisher for incipient fires. Water may be used to cool and prevent rupture of containers that are exposed to heat from fire

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

7. Handling and Storage



HANDLING: Avoid inhalation and contact with eyes, skin, and clothing. Wash hands thoroughly after handling and before eating or drinking. In keeping with safe handling practices, avoid ignition sources (smoking, flames, pilot lights, electrical sparks); ground and bond containers when transferring the material to prevent static electricity sparks that could ignite vapor and use spark proof tools and explosion proof equipment. Empty containers may retain product residue or vapor. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury.

STORAGE: Keep containers closed when not in use. Store in cool well ventilated space away from incompatible materials.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
acetone	250 ppm	500 ppm	1000 ppm	N.D.
propane	N.D.	N.D.	1000 ppm	N.D.
isobutyl acetate	50 ppm	150 ppm	150 ppm	N.D.
ethyl acetate	400 ppm	N.D.	400 ppm	N.D.
n-butyl acetate	50 ppm	150 ppm	150 ppm	N.D.
n-butane	N.D.	1000 ppm	N.D.	N.D.
toluene	20 ppm	N.D.	200 ppm	300 ppm
ethanol	N.D.	1000 ppm	1000 ppm	N.D.
cellulose nitrate, cellulose ester	N.D.	N.D.	N.D.	N.D.
isopropanol	200 ppm	400 ppm	400 ppm	N.D.
pm acetate	N.D.	N.D.	N.D.	N.D.
butyl cellosolve	20 ppm	N.D.	50 ppm	N.D.
ethylbenzene	20 ppm	N.D.	100 ppm	N.D.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established N.D. = Not Determined

Personal Protection



RESPIRATORY PROTECTION: Use adequate engineering controls and ventilation to keep levels below recommended or statutory exposure limits. If exposure levels exceed limits use appropriate approved respiratory protection equipment.



SKIN PROTECTION: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.



EYE PROTECTION: Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material.



OTHER PROTECTIVE EQUIPMENT: No Information



HYGIENIC PRACTICES: It is good practice to avoid contact with the product and/or its vapors, mists or dust by using appropriate protective measures. Wash thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance:	Colored Liquid	**Physical State:**	Aerosol
Odor:	Strong Solvent	**Odor Threshold:**	Not Determined
Density, g/cm3:	0.767	**pH:**	Not Determined
Freeze Point, °F:	Not Determined	**Viscosity:**	Not Determined
Solubility in Water:	Not Determined	**Partition Coefficient, n-octanol/ water:**	Not Determined
Decomposition temperature, °F:	Not Determined	**Explosive Limits, %:**	Not Determined
Boiling Range, °F:	Not Determined	**Flash Point, °F:**	-76 ° F
Combustibility:	Supports Combustion	**Auto-Ignition Temperature, °F:**	Not Determined
Evaporation Rate:	Faster than Diethyl Ether	**Vapor Pressure, mmHg:**	Not Determined
Vapor Density:	Not Determined		

N.I. = No Information

10. Stability and reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, flames and sparks.

INCOMPATIBILITY: Acids, Bases, Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined.

11. Toxicological information



Practical Experiences

EMERGENCY OVERVIEW: No Information

EFFECT OF OVEREXPOSURE - EYE CONTACT: No Information

EFFECT OF OVEREXPOSURE - INGESTION: No Information

EFFECT OF OVEREXPOSURE - INHALATION: No Information

EFFECT OF OVEREXPOSURE - SKIN CONTACT: No Information

CARCINOGENICITY: No Information

PRIMARY ROUTE(S) OF ENTRY:

Eye Contact, Inhalation

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	acetone	1800 mg/kg Rat	20000 mg/kg Rabbit	50.1 mg/L Rat
74-98-6	propane	N.I.	N.I.	658 mg/L Rat
110-19-0	isobutyl acetate	15400 mg/kg Rat	>17400 mg/kg Rabbit	>20 mg/l
141-78-6	ethyl acetate	5620 mg/kg Rat	>18000 mg/kg Rabbit	200 mg/l Rat
123-86-4	n-butyl acetate	14130 mg/kg Rat	>17600 mg/kg Rabbit	23.4 mg/l Rat
108-88-3	toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat
64-17-5	ethanol	7060 mg/kg Rat	15,800 mg/kg	124.7 mg/L Rat
9004-70-0	cellulose nitrate, cellulose ester	>5000 mg/kg Rat	>5000 mg/kg	>20 mg/l
67-63-0	isopropanol	1870 mg/kg Rat	4059 mg/kg Rabbit	72.6 mg/L Rat
108-65-6	pm acetate	8532 mg/kg Rat	>5000 mg/kg Rabbit	>20 mg/L
111-76-2	butyl cellosolve	470 mg/kg Rat	>2000 mg/kg Rabbit	>4.9 mg/l
100-41-4	ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.2 mg/L Rat

N.I. = No Information

12. Ecological information

ECOLOGICAL INFORMATION: Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits.

13. Disposal Information



Product

DISPOSAL METHOD: Waste from this material may be a listed and/or characteristic hazardous waste. Dispose of material, contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT:	LIMITED QUANTITY
IATA:	ID8000, CONSUMER COMMODITY, 9
IMDG:	LIMITED QUANTITY UN1950

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	Wt. %
toluene	108-88-3	5.86

TOXIC SUBSTANCES CONTROL ACT

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS-No.
octamethylcyclotetrasiloxane	556-67-2

U.S. State Regulations:

CALIFORNIA PROPOSITION 65

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Benzene, Cancer, 0.0011%
Benzene, Reproductive Harm, 0.0011%

16. Other Information

Revision Date: 1/23/2025 **Supersedes Date:** 8/20/2024

Reason for revision: Product Composition Changed
Substance and/or Product Properties Changed in Section(s):
09 - Physical & Chemical Information
16 - Other Information
Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	2	**Flammability:**	4	**Reactivity:**	0	**Personal Protection:**	X

Volatile Organic Compounds, gr/ltr: 663

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H201	Explosive; mass explosion hazard.
H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS01



GHS02



GHS04



GHS06



GHS07



GHS08



The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed.

Only the original U.S. - English version is authoritative.

Safety Data Sheet

1. Identification

Product Information: M102-0415

Product Name: PRE-CATALYZED CLEAR FINISH SEMI-GLOSS

Recommended Use: Surface Preparation or Protection

Supplied by:
Mohawk Finishing Products
Division of RPM Industrial Coatings Group
2220 US Hwy 70 SE Suite 100
Hickory, NC 28602
USA

Company Phone No: (800) 522-8266

Emergency Phone No. CHEMTREC: (800) 424-9300

International Emergency No. CHEMTREC: (703) 527-3887 (Collect calls are accepted)

2. Hazards Identification

GHS Classification
Comp. Gas, Eye Dam. 1, Fl Aer, 1, Skin Irrit. 2, STOT RE 2, STOT SE 3 NE

Symbol(s) of Product



Signal Word
Danger

Possible Hazards
22% of the mixture consists of ingredients of unknown acute toxicity

GHS HAZARD STATEMENTS

Flammable Aerosol, category 1	H222	Extremely flammable aerosol.
Skin Irritation, category 2	H315	Causes skin irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
STOT, repeated exposure, category 2	H373	May cause damage to organs through prolonged or repeated exposure.
Serious Eye Damage, category 1	H318	Causes serious eye damage.
Compressed Gas	H280	Contains gas under pressure; may explode if heated.

GHS LABEL PRECAUTIONARY STATEMENTS

P362+P364	Take off contaminated clothing and wash it before reuse.

GHS SDS PRECAUTIONARY STATEMENTS

P210	Keep away from heat. - No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Pressurized container: Do not pierce or burn, even after use.
P264	Wash face, hands and any exposed skin thoroughly after handling.

P280	Wear eye protection/ face protection.
P405	Store locked up.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P410+P403	Protect from sunlight. Store in a well-ventilated place.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P310	Immediately call a POISON CENTER or doctor/physician.

3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
n-butyl acetate	123-86-4	10-25	GHS02-GHS07	H226-336
butanol	71-36-3	10-25	GHS02-GHS05-GHS07	H226-302-315-318-332-335-336
propane	74-98-6	10-25	GHS02-GHS04	H220-280
acetone	67-64-1	10-25	GHS02-GHS07	H225-302-319-332-336
n-butane	106-97-8	2.5-10	GHS02-GHS04	H220-280
propylene glycol monomethyl ether	107-98-2	2.5-10	GHS02-GHS06-GHS07	H226-331-336
toluene	108-88-3	2.5-10	GHS02-GHS07-GHS08	H225-304-315-332-336-373
isopropanol	67-63-0	2.5-10	GHS02-GHS07	H225-302-319-336
cellulose nitrate, cellulose ester	9004-70-0	2.5-10	GHS01	H201
butyl dihydrogen phosphate	1623-15-0	<0.1	No Information	No Information

The exact percentage (concentration) of ingredients is being withheld as a trade secret.

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures



FIRST AID - EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

FIRST AID - SKIN CONTACT: IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

FIRST AID - INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

FIRST AID - INHALATION: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

5. Fire-fighting Measures

SPECIAL FIREFIGHTING PROCEDURES: Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazards while extinguishing the fire. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers. Use water spray to disperse vapors if a spill or leak has not ignited. DO NOT extinguish a fire resulting from the flow of flammable liquid until the flow of the liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished.

FIREFIGHTING EQUIPMENT: This is a NFPA/OSHA Category 1 flammable aerosol. Follow NFPA 30B, Chapter 4 for fire protection and fire suppression. Use a dry chemical, carbon dioxide, or similar ABC fire extinguisher for incipient fires. Water may be used to cool and prevent rupture of containers that are exposed to heat from fire

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

7. Handling and Storage



HANDLING: Avoid inhalation and contact with eyes, skin, and clothing. Wash hands thoroughly after handling and before eating or drinking. In keeping with safe handling practices, avoid ignition sources (smoking, flames, pilot lights, electrical sparks); ground and bond containers when transferring the material to prevent static electricity sparks that could ignite vapor and use spark proof tools and explosion proof equipment. Empty containers may retain product residue or vapor. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury.

STORAGE: Keep containers closed when not in use. Store in cool well ventilated space away from incompatible materials.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
n-butyl acetate	50 ppm	150 ppm	150 ppm	N.D.
butanol	20 ppm	N.D.	100 ppm	N.D.
propane	N.D.	N.D.	1000 ppm	N.D.
acetone	250 ppm	500 ppm	1000 ppm	N.D.
n-butane	N.D.	1000 ppm	N.D.	N.D.
propylene glycol monomethyl ether	50 ppm	100 ppm	N.D.	N.D.
toluene	20 ppm	N.D.	200 ppm	300 ppm
isopropanol	200 ppm	400 ppm	400 ppm	N.D.
cellulose nitrate, cellulose ester	N.D.	N.D.	N.D.	N.D.
butyl dihydrogen phosphate	N.D.	N.D.	N.D.	N.D.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established N.D. = Not Determined

Personal Protection



RESPIRATORY PROTECTION: Use adequate engineering controls and ventilation to keep levels below recommended or statutory exposure limits. If exposure levels exceed limits use appropriate approved respiratory protection equipment.



SKIN PROTECTION: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.



EYE PROTECTION: Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material.



OTHER PROTECTIVE EQUIPMENT: No Information



HYGIENIC PRACTICES: It is good practice to avoid contact with the product and/or its vapors, mists or dust by using appropriate protective measures. Wash thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance:	Cloudy Liquid	**Physical State:**	Aerosol
Odor:	Strong Solvent	**Odor Threshold:**	Not Determined
Density, g/cm3:	0.768	**pH:**	Not Determined
Freeze Point, °F:	Not Determined	**Viscosity:**	Not Determined
Solubility in Water:	Not Determined	**Partition Coefficient, n-octanol/ water:**	Not Determined
Decomposition temperature, °F:	Not Determined	**Explosive Limits, %:**	Not Determined
Boiling Range, °F:	Not Determined	**Flash Point, °F:**	-76 ° F
Combustibility:	Supports Combustion	**Auto-Ignition Temperature, °F:**	Not Determined
Evaporation Rate:	Faster than Diethyl Ether	**Vapor Pressure, mmHg:**	Not Determined
Vapor Density:	Not Determined		

N.I. = No Information

10. Stability and reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, flames and sparks.

INCOMPATIBILITY: Acids, Bases, Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined.

11. Toxicological information



Practical Experiences

EMERGENCY OVERVIEW: No Information

EFFECT OF OVEREXPOSURE - EYE CONTACT: No Information

EFFECT OF OVEREXPOSURE - INGESTION: No Information

EFFECT OF OVEREXPOSURE - INHALATION: No Information

EFFECT OF OVEREXPOSURE - SKIN CONTACT: No Information

CARCINOGENICITY: No Information

PRIMARY ROUTE(S) OF ENTRY:

Eye Contact, Skin Contact, Inhalation

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
123-86-4	n-butyl acetate	14130 mg/kg Rat	>17600 mg/kg Rabbit	23.4 mg/l Rat
71-36-3	butanol	700 mg/kg Rat	3402 mg/kg Rabbit	8000 mg/l Rat
74-98-6	propane	N.I.	N.I.	658 mg/L Rat
67-64-1	acetone	1800 mg/kg Rat	20000 mg/kg Rabbit	50.1 mg/L Rat
107-98-2	propylene glycol monomethyl ether	5000 mg/kg Rat	13000 mg/kg Rabbit	>6 mg/L Rat
108-88-3	toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat
67-63-0	isopropanol	1870 mg/kg Rat	4059 mg/kg Rabbit	72.6 mg/L Rat
9004-70-0	cellulose nitrate, cellulose ester	>5000 mg/kg Rat	>5000 mg/kg	>20 mg/l

N.I. = No Information

12. Ecological information

ECOLOGICAL INFORMATION: Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits.

13. Disposal Information



Product

DISPOSAL METHOD: Waste from this material may be a listed and/or characteristic hazardous waste. Dispose of material, contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT:	LIMITED QUANTITY
IATA:	ID8000, CONSUMER COMMODITY, 9
IMDG:	LIMITED QUANTITY UN1950

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	Wt. %
butanol	71-36-3	17.95
toluene	108-88-3	5.02

TOXIC SUBSTANCES CONTROL ACT

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS-No.
octamethylcyclotetrasiloxane	556-67-2

U.S. State Regulations:

CALIFORNIA PROPOSITION 65

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Ethylbenzene, Cancer, 0.0577%
Toluene, Reproductive Harm, 5.0157%

16. Other Information

Revision Date: 7/26/2024 **Supersedes Date:** 2/21/2024

Reason for revision: Product Composition Changed
Substance and/or Product Properties Changed in Section(s):
01 - Product Information
03 - Composition/Information on Ingredients
08 - Exposure Controls/Personal Protection
09 - Physical & Chemical Information
11 - Toxicological Information
Substance Hazardous Flag Changed
Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	2	Flammability:	4	Reactivity:	0	Personal Protection:	X

Volatile Organic Compounds, gr/ltr: 683

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H201 Explosive; mass explosion hazard.
H220 Extremely flammable gas.

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapor.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H373	May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS01



GHS02



GHS04



GHS05



GHS06



GHS07



GHS08



The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed.

Only the original U.S. - English version is authoritative.

Safety Data Sheet

1. Identification

Product Information: M550-2027

Product Name: BLEACHTONE™ PICKLE FROST/WHITEWASH GAL

Recommended Use: Surface Preparation or Protection

Supplied by:
Mohawk Finishing Products
Division of RPM Industrial Coatings Group
2220 US Hwy 70 SE Suite 100
Hickory, NC 28602
USA

Company Phone No: (800) 522-8266

Emergency Phone No. CHEMTREC: (800) 424-9300

International Emergency No. CHEMTREC: (703) 527-3887 (Collect calls are accepted)

2. Hazards Identification

GHS Classification
Carc. 1B, Eye Irrit. 2A, Flam. Liq. 2, Muta. 1B, STOT SE 3 NE

Symbol(s) of Product



Signal Word
Danger

GHS HAZARD STATEMENTS

Flammable Liquid, category 2	H225	Highly flammable liquid and vapour.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, single exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
Carcinogenicity, category 1B	H350	May cause cancer.

GHS LABEL PRECAUTIONARY STATEMENTS

P403+P235	Store in a well-ventilated place. Keep cool.

GHS SDS PRECAUTIONARY STATEMENTS

P210	Keep away from heat. - No smoking.
P240	Ground/Bond container and receiving equipment.
P241	Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P264	Wash face, hands and any exposed skin thoroughly after handling.
P280	Wear eye protection/ face protection.

P405	Store locked up.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P201	Obtain special instructions before use.
P312	Call a POISON CENTER or doctor if you feel unwell.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.

3. Composition/Information on ingredients

Chemical Name	CAS-No.	Wt. %	GHS Symbols	GHS Statements
acetone	67-64-1	25-40	GHS02-GHS07	H225-302-319-332-336
ethyl acetate	141-78-6	10-25	GHS02-GHS07	H225-319-332-336
n-butyl acetate	123-86-4	10-25	GHS02-GHS07	H226-336
titanium dioxide	13463-67-7	10-25	GHS08	H351
methyl ethyl ketone	78-93-3	2.5-10	GHS02-GHS07	H225-319-332-336
butanol	71-36-3	1.0-2.5	GHS02-GHS05-GHS07	H226-302-315-318-332-335-336
cellulose nitrate, cellulose ester	9004-70-0	1.0-2.5	GHS01	H201
isopropanol	67-63-0	1.0-2.5	GHS02-GHS07	H225-302-319-336
petroleum distillate	64742-49-0	0.1-1.0	GHS08	H304-340-350
toluene	108-88-3	0.1-1.0	GHS02-GHS07-GHS08	H225-304-315-332-336-373
ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-373
aromatic hydrocarbons	64742-95-6	0.1-1.0	GHS06-GHS08	H304-331-340-350

The exact percentage (concentration) of ingredients is being withheld as a trade secret.

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures



FIRST AID - EYE CONTACT: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

FIRST AID - SKIN CONTACT: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

FIRST AID - INGESTION: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

FIRST AID - INHALATION: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

5. Fire-fighting Measures

SPECIAL FIREFIGHTING PROCEDURES: Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazards while extinguishing the fire. Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Containers of this material may build up pressure if exposed to heat (fire). Use water spray to cool fire-exposed containers. Use water spray to disperse vapors if a spill or leak has not ignited. DO NOT extinguish a fire resulting from the flow of flammable liquid until the flow of the liquid is effectively shut off. This precaution will help prevent the accumulation of an

explosive vapor-air mixture after the initial fire is extinguished.

FIREFIGHTING EQUIPMENT: This is a NFPA/OSHA Class 1B or less flammable liquid. Follow NFPA30, Chapter 16 for fire protection and fire suppression. Use a dry chemical, carbon dioxide, or similar ABC fire extinguisher for incipeint fires. Water may be used to cool and prevent rupture of containers that are exposed to heat from fire.

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

7. Handling and Storage



HANDLING: Avoid inhalation and contact with eyes, skin, and clothing. Wash hands thoroughly after handling and before eating or drinking. In keeping with safe handling practices, avoid ignition sources (smoking, flames, pilot lights, electrical sparks); ground and bond containers when transferring the material to prevent static electricity sparks that could ignite vapor and use spark proof tools and explosion proof equipment. Empty containers may retain product residue or vapor. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose container to heat, flame, sparks, static electricity, or other sources of ignition. Any of these actions can potentially cause an explosion that may lead to injury.

STORAGE: Keep containers closed when not in use. Store in cool well ventilated space away from incompatible materials.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

Chemical Name	ACGIH TLV-TWA	ACGIH-TLV STEL	OSHA PEL-TWA	OSHA PEL-CEILING
acetone	250 ppm	500 ppm	1000 ppm	N.D.
ethyl acetate	400 ppm	N.D.	400 ppm	N.D.
n-butyl acetate	50 ppm	150 ppm	150 ppm	N.D.
titanium dioxide	0.2 mg/m3	N.D.	15 mg/m3	N.D.
methyl ethyl ketone	75 ppm	150 ppm	200 ppm	N.D.
butanol	20 ppm	N.D.	100 ppm	N.D.
cellulose nitrate, cellulose ester	N.D.	N.D.	N.D.	N.D.
isopropanol	200 ppm	400 ppm	400 ppm	N.D.
petroleum distillate	100 ppm	N.D.	N.D.	N.D.
toluene	20 ppm	N.D.	200 ppm	300 ppm
ethylbenzene	20 ppm	N.D.	100 ppm	N.D.

Further Advice: MEL = Maximum Exposure Limit OES = Occupational Exposure Standard SUP = Supplier's Recommendation Sk = Skin Sensitizer N.E. = Not Established N.D. = Not Determined

Personal Protection



RESPIRATORY PROTECTION: Use adequate engineering controls and ventilation to keep levels below recommended or statutory exposure limits. If exposure levels exceed limits use appropriate approved respiratory protection equipment.



SKIN PROTECTION: Wear chemical resistant footwear and clothing such as gloves, an apron or a whole body suit as appropriate.



EYE PROTECTION: Wear chemical-resistant glasses and/or goggles and a face shield when eye and face contact is possible due to splashing or spraying of material.



OTHER PROTECTIVE EQUIPMENT: No Information



HYGIENIC PRACTICES: It is good practice to avoid contact with the product and/or its vapors, mists or dust by using appropriate protective measures. Wash thoroughly after handling and before eating or drinking.

9. Physical and Chemical Properties

Appearance:	Colored Liquid	**Physical State:**	Liquid
Odor:	Strong Solvent	**Odor Threshold:**	Not Determined
Density, g/cm3:	0.939	**pH:**	Not Determined
Freeze Point, °F:	Not Determined	**Viscosity:**	Not Determined
Solubility in Water:	Not Determined	**Partition Coefficient, n-octanol/ water:**	Not Determined
Decomposition temperature, °F:	Not Determined	**Explosive Limits, %:**	Not Determined
Boiling Range, °F:	> 100 °F	**Flash Point, °F:**	-4 ° F
Combustibility:	Supports Combustion	**Auto-Ignition Temperature, °F:**	Not Determined
Evaporation Rate:	Faster than Diethyl Ether	**Vapor Pressure, mmHg:**	Not Determined
Vapor Density:	Not Determined		

N.I. = No Information

10. Stability and reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heat, flames and sparks.

INCOMPATIBILITY: Acids, Bases, Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: Not determined.

11. Toxicological information



Practical Experiences

EMERGENCY OVERVIEW: No Information

EFFECT OF OVEREXPOSURE - EYE CONTACT: No Information

EFFECT OF OVEREXPOSURE - INGESTION: No Information

EFFECT OF OVEREXPOSURE - INHALATION: No Information

EFFECT OF OVEREXPOSURE - SKIN CONTACT: No Information

CARCINOGENICITY: May cause cancer.
This product contains Titanium Dioxide, which is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. This classification is relevant when exposed to titanium dioxide in dust or powder form only, including cured product that is subject to sanding, grinding, cutting, or other surface preparation activities.

PRIMARY ROUTE(S) OF ENTRY:

Eye Contact, Skin Contact, Inhalation

Acute Toxicity Values
The acute effects of this product have not been tested. Data on individual components are tabulated below

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	acetone	1800 mg/kg Rat	20000 mg/kg Rabbit	50.1 mg/L Rat
141-78-6	ethyl acetate	5620 mg/kg Rat	>18000 mg/kg Rabbit	200 mg/l Rat
123-86-4	n-butyl acetate	14130 mg/kg Rat	>17600 mg/kg Rabbit	23.4 mg/l Rat
13463-67-7	titanium dioxide	>10000 mg/kg Rat	>10000 mg/kg Rabbit	>20 mg/l
78-93-3	methyl ethyl ketone	2483 mg/kg Rat	5000 mg/kg Rabbit	>20 mg/l
71-36-3	butanol	700 mg/kg Rat	3402 mg/kg Rabbit	8000 mg/l Rat
9004-70-0	cellulose nitrate, cellulose ester	>5000 mg/kg Rat	>5000 mg/kg	>20 mg/l
67-63-0	isopropanol	1870 mg/kg Rat	4059 mg/kg Rabbit	72.6 mg/L Rat
64742-49-0	petroleum distillate	>5000 mg/kg Rat	>3160 mg/kg Rabbit	54 mg/l Rat
108-88-3	toluene	2600 mg/kg Rat	12000 mg/kg Rabbit	12.5 mg/L Rat
100-41-4	ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.2 mg/L Rat

N.I. = No Information

12. Ecological information

ECOLOGICAL INFORMATION: Ecological evaluation of this material has not been performed; however, do not allow the product to be released to the environment without governmental approval/permits.

13. Disposal Information



Product

DISPOSAL METHOD: Waste from this material may be a listed and/or characteristic hazardous waste. Dispose of material, contaminated absorbent, container and unused contents in accordance with local, state, and federal regulations.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Follow personal protective equipment recommendations found in Section VIII. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the training and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits. Shut off ignition sources; including electrical equipment and flames. Do not allow smoking in the area. Do not allow the spilled product to enter public drainage system or open waterways.

14. Transport Information

SPECIAL TRANSPORT PRECAUTIONS: No Information

DOT:	LIMITED QUANTITY
IATA:	UN1263, PAINT, 3, II
IMDG:	UN1263, PAINT, 3, II

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA SECTION 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.	Wt. %
butanol	71-36-3	1.79

TOXIC SUBSTANCES CONTROL ACT

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

Chemical Name	CAS-No.
lead	7439-92-1

U.S. State Regulations:

CALIFORNIA PROPOSITION 65

⚠ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

Titanium Dioxide, Cancer, 11.1994%
Toluene, Reproductive Harm, 0.5877%

16. Other Information

Revision Date: 7/27/2024 **Supersedes Date:** 6/12/2023

Reason for revision: Substance and/or Product Properties Changed in Section(s):
01 - Product Information
03 - Composition/Information on Ingredients
08 - Exposure Controls/Personal Protection
15 - Regulatory Information
Product Composition Changed
Revision Statement(s) Changed

Datasheet produced by: Regulatory Department

HMIS Ratings:

Health:	2	**Flammability:**	3	**Reactivity:**	0	**Personal Protection:**	X

Volatile Organic Compounds, gr/ltr: 817

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H201	Explosive; mass explosion hazard.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapor.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H340	May cause genetic defects.
H350	May cause cancer.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS01



GHS02



GHS05



GHS06



GHS07



GHS08



The information on this sheet corresponds to our present knowledge. It is not a specification and it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product where instructions and recommendations are not followed.

Only the original U.S. - English version is authoritative.

SAFETY DATA SHEET

C1491

Section 1. Identification

Product name : Care Catalyst

Product code : C1491

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : M. L. CAMPBELL
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : (800) 424-9300

Product Information Telephone Number : (800) 364-1359

Regulatory Information Telephone Number : (216) 566-2902

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 1B
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 17.2% (dermal), 86.9% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Danger

Hazard statements : Highly flammable liquid and vapor.
Causes severe skin burns and eye damage.
May cause drowsiness or dizziness.

Precautionary statements

Section 2. Hazards identification

Prevention : Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling.

Response : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR INDUSTRIAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
2-Propanol	≥50 - ≤75	67-63-0
4-Methylbenzenesulfonic Acid	≥10 - <20	104-15-4
n-Butyl Acetate	≥10 - ≤25	123-86-4
Phosphoric Acid	≤3	7664-38-2

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

Section 4. First aid measures

Inhalation : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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 : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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. Chemical burns must be treated promptly by a physician. 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

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Causes severe burns.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

Section 4. First aid measures

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
sulfur oxides
phosphorus oxides

Special protective actions for fire-fighters : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : 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".

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).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene : 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. Remove contaminated clothing and protective equipment before entering eating areas. 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 a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
2-Propanol	67-63-0	**ACGIH TLV (United States, 1/2021).** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. **NIOSH REL (United States, 10/2020).** TWA: 400 ppm 10 hours. TWA: 980 mg/m³ 10 hours. STEL: 500 ppm 15 minutes. STEL: 1225 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 400 ppm 8 hours.

Section 8. Exposure controls/personal protection

		TWA: 980 mg/m³ 8 hours.
4-Methylbenzenesulfonic Acid	104-15-4	None.
n-Butyl Acetate	123-86-4	**NIOSH REL (United States, 10/2020).** TWA: 150 ppm 10 hours. TWA: 710 mg/m³ 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours. **ACGIH TLV (United States, 1/2021).** STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Phosphoric Acid	7664-38-2	**ACGIH TLV (United States, 1/2021).** TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2020).** TWA: 1 mg/m³ 10 hours. STEL: 3 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 1 mg/m³ 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
Isopropyl alcohol	67-63-0	**CA Alberta Provincial (Canada, 6/2018).** 15 min OEL: 984 mg/m³ 15 minutes. 8 hrs OEL: 200 ppm 8 hours. 15 min OEL: 400 ppm 15 minutes. 8 hrs OEL: 492 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 6/2021).** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019).** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes. **CA Quebec Provincial (Canada, 6/2021).** TWAEV: 400 ppm 8 hours. TWAEV: 983 mg/m³ 8 hours. STEV: 500 ppm 15 minutes. STEV: 1230 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 400 ppm 15 minutes. TWA: 200 ppm 8 hours.
n-butyl acetate	123-86-4	**CA Alberta Provincial (Canada, 6/2018).** 15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m³ 15 minutes. 8 hrs OEL: 150 ppm 8 hours. 8 hrs OEL: 713 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. **CA Ontario Provincial (Canada, 6/2019).** STEL: 150 ppm 15 minutes.

Phosphoric acid aqueous solution, 35 to 85 %	7664-38-2	TWA: 50 ppm 8 hours. **CA British Columbia Provincial (Canada, 6/2021).** STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **CA Quebec Provincial (Canada, 6/2021).** STEV: 150 ppm 15 minutes. TWAEV: 50 ppm 8 hours. **CA Alberta Provincial (Canada, 6/2018).** 15 min OEL: 3 mg/m³ 15 minutes. 8 hrs OEL: 1 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 6/2021).** TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. **CA Ontario Provincial (Canada, 6/2019).** TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes. **CA Quebec Provincial (Canada, 6/2021).** TWAEV: 1 mg/m³ 8 hours. STEV: 3 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada, 7/2013).** STEL: 3 mg/m³ 15 minutes. TWA: 1 mg/m³ 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
2-Propanol	67-63-0	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 200 ppm 8 hours. STEL: 400 ppm 15 minutes.
n-Butyl Acetate	123-86-4	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Phosphoric Acid	7664-38-2	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 1 mg/m³ 8 hours. STEL: 3 mg/m³ 15 minutes.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : 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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : 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 : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : Not available.

Odor : Not available.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range : 81°C (177.8°F)

Flash point : Closed cup: 11°C (51.8°F) [Pensky-Martens Closed Cup]

Evaporation rate : 1.44 (butyl acetate = 1)

Flammability : Not available.

Lower and upper explosion limit/flammability limit : Lower: 1.38%
Upper: 12.7%

Vapor pressure : 4.4 kPa (33 mm Hg)

Relative vapor density : 2.07 [Air = 1]

Relative density : 0.86

Solubility : Not available.

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Section 9. Physical and chemical properties

Viscosity : Kinematic (40°C (104°F)): >20.5 mm^2/s (>20.5 cSt)

Molecular weight : Not applicable.

Aerosol product

Heat of combustion : 29.328 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Incompatible materials : Reactive or incompatible with the following materials:
oxidizing materials

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2-Propanol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-
4-Methylbenzenesulfonic Acid	LD50 Oral	Rat	1410 mg/kg	-
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Phosphoric Acid	LD50 Oral	Rat	1.25 g/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-Propanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
4-Methylbenzenesulfonic Acid	Skin - Severe irritant	Rabbit	-	500 mg	-
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Section 11. Toxicological information

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
2-Propanol	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2-Propanol	Category 3	-	Narcotic effects
4-Methylbenzenesulfonic Acid	Category 3	-	Respiratory tract irritation
n-Butyl Acetate	Category 3	-	Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Causes severe burns.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness

Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Ingestion : Adverse symptoms may include the following:
stomach pains

Section 11. Toxicological information

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : No known significant effects or critical hazards.

Carcinogenicity : No known significant effects or critical hazards.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : No known significant effects or critical hazards.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3806.02 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
2-Propanol	Acute EC50 7550 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1400000 µg/l Marine water	Crustaceans - Crangon crangon	48 hours
	Acute LC50 4200 mg/l Fresh water	Fish - Rasbora heteromorpha	96 hours
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - Artemia salina	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Phosphoric Acid	Acute EC50 105 ppm Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 60 ppm Fresh water	Fish - Lepomis macrochirus	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
2-Propanol	-	-	Readily
n-Butyl Acetate	-	-	Readily

Bioaccumulative potential

Not available.

Section 12. Ecological information

Mobility in soil

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN3469	UN3469	UN3469	UN3469	UN3469
UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
Transport hazard class(es)	3 (8) 	3 (8) 	3 (8) 	3 (8) 	3 (8) 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.
Additional information	-	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3), 2.40-2.42 (Class 8).	-	-	**Emergency schedules** F-E, S-C

Section 14. Transport information

	ERG No.	ERG No.	ERG No.		
	132	132	132		

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

SARA 313

SARA 313 (40 CFR 372.45) supplier notification can be found on the Environmental Data Sheet.

California Prop. 65

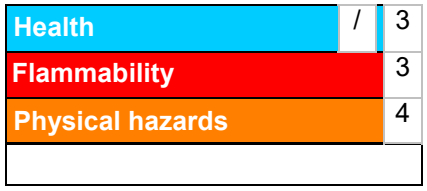
Not applicable.

International regulations

International lists : **Australia inventory (AIIC)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.
Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Section 16. Other information

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 1B SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	On basis of test data Calculation method Calculation method Calculation method

History

Date of printing : 6/18/2022

Date of issue/Date of revision : 6/18/2022

Date of previous issue : 10/3/2021

Version : 13

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

SAFETY DATA SHEET

W37578

Section 1. Identification

Product name : CODA™ Interior 2K Hybrid Polyurethane White Gloss

Product code : W37578

Other means of identification : Not available.

Product type : Liquid.

Relevant identified uses of the substance or mixture and uses advised against

Paint or paint related material.

Manufacturer : M. L. CAMPBELL
101 W. Prospect Avenue
Cleveland, OH 44115

Emergency telephone number of the company : (800) 424-9300

Product Information Telephone Number : (800) 364-1359

Transportation Emergency Telephone Number : (800) 424-9300

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : FLAMMABLE LIQUIDS - Category 2
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
CARCINOGENICITY - Category 2
TOXIC TO REPRODUCTION - Category 1B
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 2.1% (dermal), 2.1% (inhalation)

GHS label elements

Hazard pictograms :



Signal word : Danger

Section 2. Hazards identification

Hazard statements : Highly flammable liquid and vapor.
Causes skin irritation.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause drowsiness or dizziness.
Suspected of causing cancer.
May damage fertility or the unborn child.

Precautionary statements

Prevention : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace.

Response : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention.

Storage : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS.

Please refer to the SDS for additional information. Keep out of reach of children. Do not transfer contents to other containers for storage.

Hazards not otherwise classified : None known.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

Ingredient name	% by weight	CAS number
n-Butyl Acetate	≥25 - ≤50	123-86-4
Methyl Ethyl Ketone	≤10	78-93-3
Titanium Dioxide	≤10	13463-67-7
Cellulose Nitrate	≤3	9004-70-0
Acetic Acid	<3	64-19-7
Methyl Methacrylate	<1	80-62-6
Light Aromatic Hydrocarbons	≤0.3	64742-95-6
1-Methyl-2-Pyrrolidone	≤0.3	872-50-4
Xylene, mixed isomers	≤0.3	1330-20-7

Section 3. Composition/information on ingredients

Dibutyltin Dilaurate	≤0.3	77-58-7

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

Eye contact : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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 necessary, call a poison center or physician. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Skin contact : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Ingestion : Wash out mouth with water. Remove dentures if any. 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 necessary, call a poison center or physician. 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

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Section 4. First aid measures

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Specific treatments : No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media : Use dry chemical, CO_2, water spray (fog) or foam.

Unsuitable extinguishing media : Do not use water jet.

Specific hazards arising from the chemical : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back.

Hazardous thermal decomposition products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen oxides
metal oxide/oxides

Special protective actions for fire-fighters : 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Remark : Flammable liquid.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

For emergency responders : 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".

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).

Methods and materials for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Large spill : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

Section 7. Handling and storage

Advice on general occupational hygiene : 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. Remove contaminated clothing and protective equipment before entering eating areas. 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 a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. 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. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

Ingredient name	CAS #	Exposure limits
n-Butyl Acetate	123-86-4	**NIOSH REL (United States, 10/2020).** TWA: 150 ppm 10 hours. TWA: 710 mg/m³ 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 150 ppm 8 hours. TWA: 710 mg/m³ 8 hours. **ACGIH TLV (United States, 1/2024). [Butyl acetates]** STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours.
Methyl Ethyl Ketone	78-93-3	**ACGIH TLV (United States, 1/2024). Absorbed through skin.** TWA: 75 ppm 8 hours. STEL: 150 ppm 15 minutes. **NIOSH REL (United States, 10/2020).** TWA: 200 ppm 10 hours. TWA: 590 mg/m³ 10 hours. STEL: 300 ppm 15 minutes. STEL: 885 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 200 ppm 8 hours. TWA: 590 mg/m³ 8 hours.
Titanium Dioxide	13463-67-7	**OSHA PEL (United States, 5/2018).** TWA: 15 mg/m³ 8 hours. Form: Total dust **ACGIH TLV (United States, 1/2024).** TWA: 2.5 mg/m³ 8 hours. Form: respirable fraction, finescale particles
Cellulose Nitrate	9004-70-0	None.
Acetic Acid	64-19-7	**ACGIH TLV (United States, 1/2024).** TWA: 10 ppm 8 hours. TWA: 25 mg/m³ 8 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m³ 15 minutes. **NIOSH REL (United States, 10/2020).**

Section 8. Exposure controls/personal protection

		TWA: 10 ppm 10 hours. TWA: 25 mg/m³ 10 hours. STEL: 15 ppm 15 minutes. STEL: 37 mg/m³ 15 minutes. **OSHA PEL (United States, 5/2018).** TWA: 10 ppm 8 hours. TWA: 25 mg/m³ 8 hours.
Methyl Methacrylate	80-62-6	**ACGIH TLV (United States, 1/2024). Skin sensitizer.** TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. **NIOSH REL (United States, 10/2020).** TWA: 100 ppm 10 hours. TWA: 410 mg/m³ 10 hours. **OSHA PEL (United States, 5/2018).** TWA: 100 ppm 8 hours. TWA: 410 mg/m³ 8 hours.
Light Aromatic Hydrocarbons	64742-95-6	None.
1-Methyl-2-Pyrrolidone	872-50-4	**OARS WEEL (United States, 4/2022). Absorbed through skin.** TWA: 15 ppm 8 hours. STEL: 120 mg/m³ 15 minutes. STEL: 30 ppm 15 minutes. TWA: 60 mg/m³ 8 hours.
Xylene, mixed isomers	1330-20-7	**OSHA PEL (United States, 5/2018). [Xylenes]** TWA: 100 ppm 8 hours. TWA: 435 mg/m³ 8 hours. **ACGIH TLV (United States, 1/2024). [p-xylene and mixtures containing p-xylene] Ototoxicant.** TWA: 20 ppm 8 hours.
Dibutyltin Dilaurate	77-58-7	**ACGIH TLV (United States, 1/2024). [Tin, organic compounds] Absorbed through skin.** TWA: 0.1 mg/m³, (as Sn) 8 hours. STEL: 0.2 mg/m³, (as Sn) 15 minutes. **NIOSH REL (United States, 10/2020). [tin organic compounds] Absorbed through skin.** TWA: 0.1 mg/m³, (as Sn) 10 hours. **OSHA PEL (United States, 5/2018). [Tin, organic compounds]** TWA: 0.1 mg/m³, (as Sn) 8 hours.

Occupational exposure limits (Canada)

Ingredient name	CAS #	Exposure limits
n-butyl acetate	123-86-4	**CA Alberta Provincial (Canada, 3/2023).** OEL: 200 ppm 15 minutes. OEL: 950 mg/m³ 15 minutes. OEL: 150 ppm 8 hours. OEL: 713 mg/m³ 8 hours. **CA Saskatchewan Provincial (Canada, 4/2021).** STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours.

Section 8. Exposure controls/personal protection

		CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **CA British Columbia Provincial (Canada, 8/2023). [butyl acetate, all isomers]** STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. **CA Quebec Provincial (Canada, 2/2024). [butyl acetates]** STEV: 150 ppm 15 minutes. TWAEV: 50 ppm 8 hours.
Methyl ethyl ketone	78-93-3	**CA Alberta Provincial (Canada, 3/2023).** OEL: 300 ppm 15 minutes. OEL: 200 ppm 8 hours. OEL: 590 mg/m³ 8 hours. OEL: 885 mg/m³ 15 minutes. **CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin.** TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019).** TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes. **CA Quebec Provincial (Canada, 2/2024).** TWAEV: 50 ppm 8 hours. TWAEV: 150 mg/m³ 8 hours. STEV: 100 ppm 15 minutes. STEV: 300 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada, 4/2021).** STEL: 300 ppm 15 minutes. TWA: 200 ppm 8 hours.
Acetic acid	64-19-7	**CA Alberta Provincial (Canada, 3/2023).** OEL: 10 ppm 8 hours. OEL: 25 mg/m³ 8 hours. OEL: 37 mg/m³ 15 minutes. OEL: 15 ppm 15 minutes. **CA British Columbia Provincial (Canada, 8/2023).** TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019).** TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. **CA Quebec Provincial (Canada, 2/2024).** TWAEV: 10 ppm 8 hours. TWAEV: 25 mg/m³ 8 hours. STEV: 15 ppm 15 minutes. STEV: 37 mg/m³ 15 minutes. **CA Saskatchewan Provincial (Canada, 4/2021).** STEL: 15 ppm 15 minutes. TWA: 10 ppm 8 hours.
methyl methacrylate	80-62-6	**CA Alberta Provincial (Canada, 3/2023).** OEL: 205 mg/m³ 8 hours. OEL: 50 ppm 8 hours.

Section 8. Exposure controls/personal protection

		OEL: 410 mg/m³ 15 minutes. OEL: 100 ppm 15 minutes. **CA British Columbia Provincial (Canada, 8/2023). Skin sensitizer.** TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019). Skin sensitizer.** TWA: 50 ppm 8 hours. STEL: 100 ppm 15 minutes. **CA Quebec Provincial (Canada, 2/2024). Skin sensitizer.** TWAEV: 50 ppm 8 hours. STEV: 100 ppm 15 minutes. **CA Saskatchewan Provincial (Canada, 4/2021). Skin sensitizer. Inhalation sensitizer.** STEL: 100 ppm 15 minutes. TWA: 50 ppm 8 hours.
Cyclohexanone	108-94-1	**CA Alberta Provincial (Canada, 3/2023). Absorbed through skin.** OEL: 20 ppm 8 hours. OEL: 80 mg/m³ 8 hours. OEL: 200 mg/m³ 15 minutes. OEL: 50 ppm 15 minutes. **CA British Columbia Provincial (Canada, 8/2023). Absorbed through skin.** TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. **CA Ontario Provincial (Canada, 6/2019). Absorbed through skin.** TWA: 20 ppm 8 hours. STEL: 50 ppm 15 minutes. **CA Quebec Provincial (Canada, 2/2024). Absorbed through skin.** TWAEV: 20 ppm 8 hours. STEV: 50 ppm 15 minutes. **CA Saskatchewan Provincial (Canada, 4/2021). Absorbed through skin.** STEL: 50 ppm 15 minutes. TWA: 20 ppm 8 hours.
N-Methyl pyrrolidone	872-50-4	**CA Ontario Provincial (Canada, 6/2019).** TWA: 400 mg/m³ 8 hours.
Xylene	1330-20-7	**CA Alberta Provincial (Canada, 3/2023). [Dimethylbenzene]** OEL: 100 ppm 8 hours. OEL: 651 mg/m³ 15 minutes. OEL: 150 ppm 15 minutes. OEL: 434 mg/m³ 8 hours. **CA British Columbia Provincial (Canada, 8/2023). [Xylene (o, m & p isomers)]** TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. **CA Quebec Provincial (Canada, 2/2024). [Xylene]** TWAEV: 100 ppm 8 hours. TWAEV: 434 mg/m³ 8 hours.

		STEV: 150 ppm 15 minutes. STEV: 651 mg/m³ 15 minutes. **CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)]** STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. **CA Saskatchewan Provincial (Canada, 4/2021). [Xylene]** STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours.

Occupational exposure limits (Mexico)

	CAS #	Exposure limits
n-Butyl Acetate	123-86-4	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes.
Methyl Ethyl Ketone	78-93-3	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 200 ppm 8 hours. STEL: 300 ppm 15 minutes.
Acetic Acid	64-19-7	**NOM-010-STPS-2014 (Mexico, 4/2016).** TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes.
Dibutyltin Dilaurate	77-58-7	**NOM-010-STPS-2014 (Mexico, 4/2016). [Estaño, compuestos orgánicos] Absorbed through skin.** TWA: 0.1 mg/m³, (as Sn) 8 hours. STEL: 0.2 mg/m³, (as Sn) 15 minutes.

Biological exposure indices (United States)

Ingredient name	Exposure indices
Methyl Ethyl Ketone	**ACGIH BEI (United States, 1/2024)** BEI: 2 mg/l, methyl ethyl ketone [in urine]. Sampling time: end of shift.
1-Methyl-2-Pyrrolidone	**ACGIH BEI (United States, 1/2024)** BEI: 100 mg/l, 5-hydroxy-N-methyl-2-pyrrolidone [in urine]. Sampling time: end of shift.
Xylene, mixed isomers	**ACGIH BEI (United States, 1/2024) [xylenes (technical or commercial grades)]** BEI: 0.3 g/g creatinine, methylhippuric acids [in urine]. Sampling time: end of shift.

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

Section 8. Exposure controls/personal protection

Ingredient name	Exposure indices
Methyl Ethyl Ketone	**Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)** BEI: 2 mg/L, MEK [in urine]. Sampling time: at the end of the work shift.
1-Methyl-2-Pyrrolidone	**Official Mexican STANDARD NOM-047-SSA1-2011, Environmental Health-Biological exposure indices for personnel occupationally exposed to chemical substances. (Mexico, 6/2012)** BEI: 100 mg/L, 5-hydroxy-n-methyl-2-pyrrolidone [in urine]. Sampling time: at the end of the work shift.

Appropriate engineering controls : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : 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.

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. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Hand protection : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.

Other skin protection : 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.

Section 8. Exposure controls/personal protection

Respiratory protection : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance

Physical state : Liquid.

Color : White.

Odor : Not available.

Odor threshold : Not available.

pH : Not applicable.

Melting point/freezing point : Not available.

Boiling point, initial boiling point, and boiling range : 78°C (172.4°F)

Flash point : Closed cup: -4°C (24.8°F) [Pensky-Martens Closed Cup]

Evaporation rate : 5.6 (butyl acetate = 1)

Flammability : Flammable liquid.

Lower and upper explosion limit/flammability limit : Lower: 1.38%
Upper: 19.3%

Vapor pressure : 12.1 kPa (90.6 mm Hg)

Relative vapor density : 2.07 [Air = 1]

Relative density : 1.02

Solubility(ies) :

Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/water : Not applicable.

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Kinematic (40°C (104°F)): >20.5 mm^2/s (>20.5 cSt)

Molecular weight : Not applicable.

Heat of combustion : 18.064 kJ/g

Section 10. Stability and reactivity

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

Chemical stability : The product is stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.

Section 10. Stability and reactivity

Incompatible materials : Reactive or incompatible with the following materials: oxidizing materials

Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
n-Butyl Acetate	LD50 Dermal	Rabbit	>17600 mg/kg	-
	LD50 Oral	Rat	10768 mg/kg	-
Methyl Ethyl Ketone	LD50 Dermal	Rabbit	6480 mg/kg	-
	LD50 Oral	Rat	2737 mg/kg	-
Cellulose Nitrate	LD50 Oral	Rat	>5 g/kg	-
Acetic Acid	LC50 Inhalation Vapor	Rat	11000 mg/m³	4 hours
	LD50 Dermal	Rabbit	1060 mg/kg	-
	LD50 Oral	Rat	3310 mg/kg	-
Methyl Methacrylate	LC50 Inhalation Vapor	Rat	78000 mg/m³	4 hours
	LD50 Dermal	Rabbit	>5 g/kg	-
	LD50 Oral	Rat	7872 mg/kg	-
Light Aromatic Hydrocarbons	LD50 Oral	Rat	8400 mg/kg	-
1-Methyl-2-Pyrrolidone	LD50 Dermal	Rabbit	8 g/kg	-
	LD50 Oral	Rat	3914 mg/kg	-
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours
	LD50 Oral	Rat	4300 mg/kg	-
Dibutyltin Dilaurate	LD50 Oral	Rat	2071 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
n-Butyl Acetate	Eyes - Moderate irritant	Rabbit	-	100 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Methyl Ethyl Ketone	Skin - Mild irritant	Rabbit	-	24 hours 14 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
Titanium Dioxide	Skin - Mild irritant	Human	-	72 hours 300 ug l	-
Acetic Acid	Eyes - Mild irritant	Rabbit	-	0.5 minutes 5 mg	-
	Skin - Mild irritant	Human	-	24 hours 50 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 50 mg	-
	Skin - Severe irritant	Rabbit	-	525 mg	-
Light Aromatic Hydrocarbons	Eyes - Mild irritant	Rabbit	-	24 hours 100 uL	-
1-Methyl-2-Pyrrolidone	Eyes - Moderate irritant	Rabbit	-	100 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 5 mg	-
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-

Section 11. Toxicological information

Dibutyltin Dilaurate	Eyes - Moderate irritant	Rabbit	-	mg 24 hours 100 mg	-
	Skin - Severe irritant	Rabbit	-	500 mg	-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
Titanium Dioxide	-	2B	-
Methyl Methacrylate	-	3	-
Xylene, mixed isomers	-	3	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
n-Butyl Acetate	Category 3	-	Narcotic effects
Methyl Ethyl Ketone	Category 3	-	Narcotic effects
Methyl Methacrylate	Category 3	-	Respiratory tract irritation
Light Aromatic Hydrocarbons	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
1-Methyl-2-Pyrrolidone	Category 3	-	Respiratory tract irritation
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
Dibutyltin Dilaurate	Category 1	-	-

Specific target organ toxicity (repeated exposure)

Name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Dibutyltin Dilaurate	Category 1	oral	-

Aspiration hazard

Name	Result
Light Aromatic Hydrocarbons	ASPIRATION HAZARD - Category 1
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1

Information on the likely routes of exposure : Not available.

Section 11. Toxicological information

Potential acute health effects

Eye contact : Causes serious eye irritation.

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.

Skin contact : Causes skin irritation. May cause an allergic skin reaction.

Ingestion : Can cause central nervous system (CNS) depression.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:
pain or irritation
watering
redness

Inhalation : Adverse symptoms may include the following:
nausea or vomiting
headache
drowsiness/fatigue
dizziness/vertigo
unconsciousness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Skin contact : Adverse symptoms may include the following:
irritation
redness
reduced fetal weight
increase in fetal deaths
skeletal malformations

Ingestion : Adverse symptoms may include the following:
reduced fetal weight
increase in fetal deaths
skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

Carcinogenicity : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity : No known significant effects or critical hazards.

Teratogenicity : May damage the unborn child.

Developmental effects : No known significant effects or critical hazards.

Fertility effects : May damage fertility.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	24640.31 mg/kg
Dermal	52199.89 mg/kg
Inhalation (vapors)	541.7 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
n-Butyl Acetate	Acute LC50 32 mg/l Marine water	Crustaceans - *Artemia salina*	48 hours
	Acute LC50 18000 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
Methyl Ethyl Ketone	Acute EC50 >500000 µg/l Marine water	Algae - *Skeletonema costatum*	96 hours
	Acute EC50 5091000 µg/l Fresh water	Daphnia - *Daphnia magna* - Larvae	48 hours
	Acute LC50 3220000 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
Titanium Dioxide	Acute LC50 >1000000 µg/l Marine water	Fish - *Fundulus heteroclitus*	96 hours
Cellulose Nitrate	Acute EC50 579000 µg/l Fresh water	Algae - *Raphidocelis subcapitata*	96 hours
Acetic Acid	Acute EC50 65000 µg/l Fresh water	Daphnia - *Daphnia magna* - Neonate	48 hours
	Acute LC50 32 mg/l Marine water	Crustaceans - *Artemia salina*	48 hours
	Acute LC50 75 ppm Fresh water	Fish - *Lepomis macrochirus*	96 hours
Methyl Methacrylate	Acute LC50 130000 µg/l Fresh water	Fish - *Pimephales promelas* - Adult	96 hours
1-Methyl-2-Pyrrolidone	Acute LC50 1.23 ppm Fresh water	Daphnia - *Daphnia magna*	48 hours
	Acute LC50 832 ppm Fresh water	Fish - *Lepomis macrochirus*	96 hours
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - *Palaemonetes pugio*	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - *Pimephales promelas*	96 hours
Dibutyltin Dilaurate	Chronic EC10 >2 mg/l Fresh water	Algae - *Desmodesmus subspicatus*	96 hours

Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
n-Butyl Acetate	-	-	Readily
Methyl Ethyl Ketone	-	-	Readily
Light Aromatic Hydrocarbons	-	-	Readily
Xylene, mixed isomers	-	-	Readily

Bioaccumulative potential

Product/ingredient name	$LogP_{ow}$	BCF	Potential
Acetic Acid	-	3.16	Low
Light Aromatic Hydrocarbons	-	10 to 2500	High
Xylene, mixed isomers	-	8.1 to 25.9	Low
Dibutyltin Dilaurate	-	2.91	Low

Mobility in soil

Section 12. Ecological information

Soil/water partition coefficient (K_{OC}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IATA	IMDG
UN number	UN1263	UN1263	UN1263	UN1263	UN1263
UN proper shipping name	PAINT	PAINT	PAINT	PAINT	PAINT
Transport hazard class(es)	3 	3 	3 	3 	3 
Packing group	II	II	II	II	II
Environmental hazards	No.	No.	No.	No.	No.
Additional information	- **ERG No.** 128	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). **ERG No.** 128	- **ERG No.** 128	-	**Emergency schedules** F-E, S-E

Section 14. Transport information

Special precautions for user : Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

Transport in bulk according to IMO instruments : Not available.

Proper shipping name : Not available.

Section 15. Regulatory information

TSCA 5(a)2 proposed significant new use rules: 1-Methyl-2-Pyrrolidone

SARA 313

All data given below are MAXIMUM THEORETICAL VALUES based on the product AS CURRENTLY FORMULATED and rely on information provided to us by our raw material suppliers. Our suppliers often provide an estimated value or range less than a certain upper limit. We calculate MAXIMUM THEORETICAL VALUES using defined values, if provided, or the upper limit reported by our supplier. Additionally, the suppliers' information may include amounts present in the product as unintentional byproducts or impurities. Variations may occur in individual batches due to adjustments made during production. Reporting of chemicals in this section does not necessarily indicate their presence in the final formulated product.

Ingredient name	% by weight	CAS number
Mercury (as Hg) Lead (as Pb)	0.0000003 0.00001	

California Prop. 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status
Annex A - Elimination - Production Annex A - Elimination - Use	UV-328 UV-328	Listed Listed

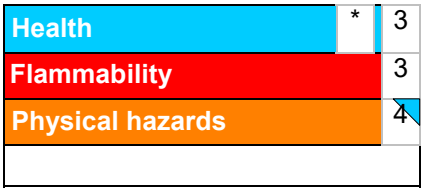
International lists : **Australia inventory (AIIC)**: Not determined.
China inventory (IECSC): Not determined.
Japan inventory (CSCL): Not determined.
Japan inventory (ISHL): Not determined.
Korea inventory (KECI): Not determined.
New Zealand Inventory of Chemicals (NZIoC): Not determined.
Philippines inventory (PICCS): Not determined.
Taiwan Chemical Substances Inventory (TCSI): Not determined.
Thailand inventory: Not determined.

Section 15. Regulatory information

Turkey inventory: Not determined.
Vietnam inventory: Not determined.

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

Classification	Justification
FLAMMABLE LIQUIDS - Category 2	On basis of test data
SKIN CORROSION/IRRITATION - Category 2	Calculation method
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
CARCINOGENICITY - Category 2	Calculation method
TOXIC TO REPRODUCTION - Category 1B	Calculation method
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3	Calculation method

History

Date of printing : 3/3/2025

Date of issue/Date of revision : 3/3/2025

Date of previous issue : 1/16/2025

Version : 20

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
N/A = Not available
SGG = Segregation Group
UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

Section 16. Other information

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become aware of and understand the data contained in this SDS and any hazards associated with the product. This information is provided in good faith and believed to be accurate as of the effective date herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can change the composition, hazards and risks of the product. Products shall not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for use of the product are not under the control of the manufacturer; the customer/buyer/user is responsible to determine the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be responsible for SDSs obtained from any other source.

Safety Data Sheet

RUST-OLEUM CORPORATION
* Trusted Quality Since 1921 *
www.rustoleum.com

1. Identification

Name on Label: Specialty Lacquer Clear Spray

Product Name: SPECLT 6X312GM LACQUER CLEAR

Revision Date: 5/6/2025

Product Identifier: N1906830

Supercedes Date: 10/22/2022

Recommended Use: Topcoat/Aerosol

Supplier:
Rust-Oleum Canada (ROCA)
200 Confederation Parkway
Concord, ON L4K 4T8
Canada

Manufacturer:
Rust-Oleum Canada (ROCA)
200 Confederation Parkway
Concord, ON L4K 4T8
Canada

Preparer: Regulatory Department

Emergency Telephone: 24 Hour Hotline: 847-367-7700

2. Hazard Identification

Classification

Symbol(s) of Product



Signal Word
Danger

Possible Hazards
26% of the mixture consists of ingredient(s) of unknown acute toxicity.

GHS Hazard Statements

Aerosol, category 1	H222	Extremely flammable aerosol.
	H229	Pressurized container: may burst if heated.
Skin Sensitizer, category 1	H317	May cause an allergic skin reaction.
Eye Irritation, category 2A	H319	Causes serious eye irritation.
STOT, Single Exposure, category 3, NE	H336	May cause drowsiness or dizziness.
Germ Cell Mutagenicity, category 1B	H340	May cause genetic defects.
Carcinogenicity, category 1B	H350	May cause cancer.

GHS Label Precautionary Statements

P201	Obtain special instructions before use.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P261	Avoid breathing dust, fumes, gas, mists, vapours, or spray.
P264	Wash thoroughly after handling.

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, eye protection, and face protection.
P302+P352	IF ON SKIN: Wash with plenty of soap and 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.
P312	Call a POISON CENTER or physician if you feel unwell.
P321	Specific treatment (see notice on this label).
P333+P313	If skin irritation or rash occurs: Get medical advice.
P337+P317	If eye irritation persists: Get medical help.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50°C / 122°F.
P501	Dispose of contents and container in accordance with local, regional and national regulations.

GHS SDS Precautionary Statements

P363	Wash contaminated clothing before reuse.

3. Composition / Information on Ingredients

HAZARDOUS SUBSTANCES

Chemical Name	CAS-No.	Wt.% Range	GHS Symbols	GHS Statements
Acetone	67-64-1	15-40	GHS02-GHS07	H225-319-332-336
n-Butyl Acetate	123-86-4	10-30	GHS02-GHS07	H226-336
Propane	74-98-6	10-30	GHS04	H280
n-Butane	106-97-8	5.0-10	GHS04	H280
1-Methoxy-2-Propyl Acetate	108-65-6	5.0-10	GHS02-GHS07	H226-332
Ethyl 3-Ethoxypropionate	763-69-9	1.0-5.0	Not Available	Not Available
Xylenes (o-, m-, p- Isomers)	1330-20-7	1.0-5.0	GHS02-GHS07-GHS08	H226-304-315-319-332-340-350
Ethylbenzene	100-41-4	0.1-1.0	GHS02-GHS07-GHS08	H225-304-332-340-350-373
Butyl Methacrylate	97-88-1	0.1-1.0	GHS02-GHS07	H226-315-317-319-332-335
Methyl Methacrylate	80-62-6	0.1-1.0	GHS02-GHS07	H225-315-317-319-335

Actual concentrations of ingredients are withheld as trade secret.

4. First Aid Measures

First Aid - Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes holding eyelids open. Get medical attention. Do NOT allow rubbing of eyes or keeping eyes closed. Remove contact lenses, if present and easy to do. Continue rinsing.

First Aid - Skin Contact: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash contaminated clothing and decontaminate footwear before reuse.

First Aid - Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention. Do NOT use mouth-to-mouth resuscitation. If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately.

First Aid - Ingestion: If swallowed, do not induce vomiting. If victim is conscious and alert, give 2 to 4 cupfuls of water or milk. Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Treat symptomatically and supportively.

5. Fire-Fighting Measures

EXTINGUISHING MEDIA: Aqueous Film Forming Foam, Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazards: FLASH POINT IS LESS THAN -7°C (20°F). EXTREMELY FLAMMABLE LIQUID AND VAPOR!Water spray may be ineffective. Closed containers may explode when exposed to extreme heat. Vapors may form explosive mixtures with air. Vapors can travel to a source of ignition and flash back. Isolate from heat, electrical equipment, sparks and open flame. Perforation of the pressurized container may cause bursting of the can.

Special Fire Fighting Procedures: Water may be used to cool closed containers to prevent buildup of steam. If water is used, fog nozzles are preferred. Evacuate area and fight fire from a safe distance. Use water spray to keep fire-exposed containers cool. Containers may explode when heated.

Special Fire and Explosion Hazard (Combustible Dust): Not a combustible dust.

6. Accidental Release Measures

Steps to Be Taken If Material Is Released or Spilled: If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent, container, and unused contents in accordance with local, state, and federal regulations. Do not incinerate closed containersRemove all sources of ignition, ventilate area and remove with inert absorbent and non-sparking tools. Dispose of according to local, state (provincial) and federal regulations. Do not incinerate closed containers.

7. Handling and Storage

Handling: Wash thoroughly after handling. Wash hands before eating. Remove contaminated clothing and launder before reuse. Use only with adequate ventilation. Follow all SDS and label precautions even after container is emptied because it may retain product residues. Avoid breathing fumes, vapors, or mist. Avoid prolonged or repeated contact with skin. Do not get in eyes, on skin or clothing. Do not puncture or incinerate (burn) container, even after use.

Storage: Contents under pressure. Do not store above 120°F (49°C). Store large quantities in buildings designed and protected for storage of flammable aerosols. Keep away from heat, sparks, flame and sources of ignition.

Advice on Safe Handling of Combustible Dust: No Information

8. Exposure Controls / Personal Protection

Chemical Name	CAS-No.	Weight % Less Than	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
Acetone	67-64-1	35.0	250 ppm	500 ppm	1000 ppm	N.E.
n-Butyl Acetate	123-86-4	25.0	50 ppm	150 ppm	150 ppm	N.E.
Propane	74-98-6	20.0	N.E.	N.E.	1000 ppm	N.E.
n-Butane	106-97-8	10.0	N.E.	1000 ppm	N.E.	N.E.
1-Methoxy-2-Propyl Acetate	108-65-6	10.0	N.E.	N.E.	N.E.	N.E.
Ethyl 3-Ethoxypropionate	763-69-9	5.0	N.E.	N.E.	N.E.	N.E.
Xylenes (o-, m-, p- Isomers)	1330-20-7	5.0	20 ppm	N.E.	100 ppm	N.E.
Ethylbenzene	100-41-4	1.0	20 ppm	N.E.	100 ppm	N.E.
Butyl Methacrylate	97-88-1	1.0	N.E.	N.E.	N.E.	N.E.
Methyl Methacrylate	80-62-6	1.0	50 ppm	100 ppm	100 ppm	N.E.

PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Any electrical equipment nearby must be explosion-proof. Apply outdoors.

Respiratory Protection: A respiratory protection program that meets OSHA 1910.134 and ANSI Z88.2 (U.S.) and/or SOR/86-304 Part XII 12.13 and CSA Standard Z180.1 (Canada) requirements must be followed whenever workplace conditions warrant a respirator's use. A NIOSH/MSHA approved air purifying respirator with organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Skin Protection: Use impervious gloves to prevent skin contact and absorption of this material through the skin.

Eye Protection: Use safety eyewear designed to protect against splash of liquids.

Other Protective Equipment: Refer to safety supervisor or industrial hygienist for further guidance regarding types of personal protective equipment and their applications.

Hygienic Practices: Wash thoroughly with soap and water before eating, drinking or smoking. Remove contaminated clothing immediately and launder before reuse.

Engineering Measures for Combustible Dust: No Information

9. Physical and Chemical Properties

Physical State	Liquid	**Decomposition Temperature, °C**	N.D.
Color	Clear	**pH**	N.A.
Odor	Solvent Like	**Kinematic Viscosity**	N.D.
Odor Threshold	N.E.	**Solubility in Water**	Slight
Freezing Point / Melting Point, °C	N.D.	**Partition Coefficient, n-octanol/water**	N.D.
Boiling Range, °C	-37 - 375	**Vapor Pressure**	N.D.
Flammability	Supports Combustion	**Evaporation Rate**	Faster than Ether
Lower Explosion Limit, vol%	1.0	**Specific Gravity**	0.749
Upper Explosion Limit, vol%	13.0	**Vapor Density**	Heavier than Air
Flash Point, °C	-96	**Particle Characteristics**	N.A.
Auto-Ignition Temperature, °C	N.D.		

(See "Other information" Section for abbreviation legend)

10. Stability and Reactivity

Conditions to Avoid: Avoid temperatures above 120°F (49°C). Avoid all possible sources of ignition. Avoid excess heat.

Incompatibility: Incompatible with strong oxidizing agents, strong acids and strong alkalies.

Hazardous Decomposition: When heated to decomposition, it emits acrid smoke and irritating fumes. Contains solvents which may form carbon monoxide, carbon dioxide, and formaldehyde.

Hazardous Polymerization: Will not occur under normal conditions.

Stability: This product is stable under normal storage conditions.

11. Toxicological Information

Effects of Overexposure - Eye Contact: Can cause severe eye irritation. Causes eye and skin irritation which may lead to dermatitis with repeated exposures. Irritating, and may injure eye tissue if not removed promptly.

Effects of Overexposure - Skin Contact: Prolonged or repeated skin contact may cause irritation. Causes skin irritation. Allergic reactions are possible. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Frequent or prolonged contact may irritate the skin and cause a skin rash (dermatitis). Low hazard for usual industrial handling or commercial handling by trained personnel.

Effects of Overexposure - Inhalation: High gas, vapor, mist or dust concentrations may be harmful if inhaled. Avoid breathing fumes, spray, vapors, or mist.

Effects of Overexposure - Ingestion: Substance may be harmful if swallowed.

Effects of Overexposure - Chronic Hazards: High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches, paralysis, and blurred vision) and/or damage. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Overexposure to xylene in laboratory animals has been associated with liver abnormalities, kidney, lung, spleen, eye and blood damage as well as reproductive disorders. Effects in humans, due to chronic overexposure, have included liver, cardiac abnormalities and nervous system damage. IARC lists Ethylbenzene as a possible human carcinogen (group 2B). Prolonged or repeated skin contact may cause dermatitis.

PRIMARY ROUTE(S) OF ENTRY: Eye Contact, Ingestion, Inhalation, Skin Absorption, Skin Contact

ACUTE TOXICITY VALUES

The acute effects of this product have not been tested. Data on individual components are tabulated below:

CAS-No.	Chemical Name	Oral LD50	Dermal LD50	Vapor LC50
67-64-1	Acetone	5800 mg/kg Rat	>15700 mg/kg Rabbit	50.1 mg/L Rat
123-86-4	n-Butyl Acetate	10768 mg/kg Rat	>17600 mg/kg Rabbit	> 21 mg/L Rat
106-97-8	n-Butane	N.E.	N.E.	658 mg/L Rat
108-65-6	1-Methoxy-2-Propyl Acetate	8532 mg/kg Rat	5000 mg/kg Rabbit	16 mg/L Rat
763-69-9	Ethyl 3-Ethoxypropionate	5000 mg/kg Rat	>9500 mg/kg Rabbit	25
1330-20-7	Xylenes (o-, m-, p- Isomers)	3500 mg/kg Rat	>4350 mg/kg Rabbit	29.08 mg/L Rat

100-41-4	Ethylbenzene	3500 mg/kg Rat	15400 mg/kg Rabbit	17.4 mg/L Rat
97-88-1	Butyl Methacrylate	16000 mg/kg Rat	11300 mg/kg Rabbit	N.E.
80-62-6	Methyl Methacrylate	8420 - 10000 mg/kg Rat	5000 - 7500 mg/kg Rabbit	29.8 mg/L Rat

N.E. - Not Established

12. Ecological Information

Ecological Information: No ecotoxicity data was found for this product.

13. Disposal Considerations

Disposal: Do not incinerate closed containers. Dispose of material in accordance to local, state, and federal regulations and ordinances. This product as supplied is a US EPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state, and federal regulation.

14. Transport Information

	Domestic (USDOT)	International (IMDG)	Air (IATA)	TDG (Canada)
UN Number:	N.A.	1950	1950	1950
Proper Shipping Name:	Paint and Related Spray Products in Ltd Qty	Aerosols	Aerosols, flammable	AEROSOLS, flammable
Hazard Class:	N.A.	2	2.1	2.1
Packing Group:	N.A.	N.A.	N.A.	N.A.
Limited Quantity:	Yes	Yes	Yes	Yes

15. Regulatory Information

U.S. Federal Regulations:

CERCLA - SARA Hazard Category

This product has been reviewed according to the EPA 'Hazard Categories' promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Carcinogenicity, Respiratory or Skin Sensitization, Serious eye damage or eye irritation, Specific target organ toxicity (single or repeated exposure), Germ cell mutagenicity

SARA Section 313

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

Chemical Name	CAS-No.
Xylenes (o-, m-, p- Isomers)	1330-20-7
Ethylbenzene	100-41-4
Methyl Methacrylate	80-62-6

Toxic Substances Control Act

This product contains the following chemical substances subject to the reporting requirements of TSCA 12(b) if exported from the United States:

No TSCA 12(b) components exist in this product.

U.S. State Regulations:

California Proposition 65

WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov.

16. Other Information

HMIS RATINGS

Health:	2*	**Flammability:**	4	**Physical Hazard:**	0	**Personal Protection:**	X

NFPA RATINGS

Health:	2	**Flammability:**	4	**Instability:**	0

Maximum Incremental Reactivity: 0.85

SDS REVISION DATE: 5/6/2025

REASON FOR REVISION:

Product Composition Changed
Substance and/or Product Properties Changed in Section(s):
01 - Identification
02 - Hazard Identification
03 - Composition / Information on Ingredients
05 - Fire-Fighting Measures
08 - Exposure Controls / Personal Protection
09 - Physical & Chemical Properties
11 - Toxicological Information
14 - Transport Information
15 - Regulatory Information
16 - Other Information
Substance Hazard Threshold % Changed
Revision Statement(s) Changed

Legend: N.A. - Not Applicable, N.D. - Not Determined, N.E. - Not Established

Rust-Oleum Canada believes, to the best of its knowledge, information and belief, the information contained herein to be accurate and reliable as of the date of this safety data sheet. However, because the conditions of handling, use, and storage of these materials are beyond our control, we assume no responsibility or liability for personal injury or property damage incurred by the use of these materials. Rust-Oleum Canada makes no warranty, expressed or implied, regarding the accuracy or reliability of the data or results obtained from their use. All materials may present unknown hazards and should be used with caution. The information and recommendations in this material safety data sheet are offered for the users' consideration and examination. It is the responsibility of the user to determine the final suitability of this information and to comply with all applicable international, federal, state, and local laws and regulations.

SAFETY DATA SHEET

HMIS Code

2 HEALTH
3 FLAMMABILITY
0 REACTIVITY
G PERSONAL PROTECTION

Section 1 - Product and Company Identification

DUX PAINT, LLC.
18 MILL STREET
LODI NJ 07644
(973)473-2376

INFOTRAC Emergency response #: 800-535-5053

ProductCode # #77LUBRICITE #77 LUBRACITE

Section 2 - Hazards Identification

Flammable Liquids - Category 2
Skin Corrosion/Irritation – Category 2
Germ Cell Mutagenicity – Category 2
Carcinogenicity - Category 2
Specific Target Organ Toxicity (Single Exposure) - Category 3 (respiratory irritation, narcosis)
Aspiration Hazard – Category 1
Hazardous to the Aquatic Environment, Acute Hazard – Category 3

GHS Label Elements

Symbols



FLAMMABLE HEALTH HAZARD IRRITANT

Signal Word Danger

Hazard Statements
Flammable liquid and vapor. H225
Causes skin irritation. H315
May cause respiratory irritation. H335
May cause drowsiness or dizziness. H336

Precautionary Statements

Prevention
Keep away from heat/sparks/open flames/hot surfaces. No smoking P210
Keep container tightly closed. P233

Wear protective gloves/protective clothing/eye protection/face protection P280
Wash hands and forearms thoroughly after handling. P264
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing fume/mist/vapors/spray. P261

Response
In case of fire: Use water spray, fog or foam to extinguish. P370+P378
IF ON SKIN (OR HAIR): Wash with plenty of soap and water P302

Storage Store in a well-ventilated place. Keep Cool. Keep container tightly closed. P403

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Section 3 - Composition/ Information on Hazardous Ingredients

% by Weight Range

Chemical	CAS	Lower<===>Upper	
4-METHYL 1-2PENTANONE	108-10-1	3	5
ACETONE	67-64-1	0	1
AMMONIA SOLUTION	1336-21-6	0	1
DENATURED ALCOHOL/ ETHANOL €	200-578-6	43	59
ETHYL ACETATE	141-78-6	16	23
GUM TURPENTINE	8006-64-2	1	3
ISOPROPANOL / IPA	67-63-0	7	11
ISOPROPYL ACETATE	110-19-0	0	1
METHANOL	67-56-1	3	5
WATER	7732-18-5	0	1

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Section 4 - First Aid Measures

Eye Contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical

Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the skin withrunning water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases, and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before using.

Serious Skin Contact: Wash with disinfectant soap and cover the contaminated skin with anti-bacterial cream Seek immediate medical attention.

Inhalation: Allow the victim to rest in a well ventilated area. Seek immediate medical attention.

Serious Inhalation: Evacuate the victim to a safe area as soon as possible. Loosen tight clothing, such as collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim id not breathing, perform mouth-to-mouth resuscitation. Seek medical attention.

Ingestion: Do not induce vomiting. Examine the lips and mouth to ascertain whether the tissues are a possible indication the toxic was ingested; the absence of such signs, however is not conclusive. Loosen tight such as colar, tie, belt or waistband. If victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention

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Section 5 - Fire Fighting Measure

Flammability Limits

Flashpoint: 25 F Flammability Class: FLAMMABLE LEL: 2.0 UEL: 31.0

Extinguishing Media: Carbon Dioxide, dry chemical, foam

Unusual fire and explosion hazards: Closed containers may explode when exposed to extreme heat. Applications to hot surfaces require special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

Special Fire Fighting Procedures: Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water can be used to cool closec containers to prevent pressure buildup and possible auto-ignition or explosion when exposed to heat.

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Section 6 - Accidental Release Measures

Steps to be taken in case material is released or spilled:

Small Spill: Extinguish possible sources of ignition. Evacuate all unprotected personnel and ventilate area. Only personnel equipped with proper respiratory, skin/eye protection should enter spill area. Dike area to contain spill and clean up by absorbing on an inert absorbent or other means. Don't flush into sewers or natural waterways.

Large Spill: Contain material as described above and call the local fire or police department for immediate emergency assistance

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SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Product name: WD-40® Multi-Use Product - Aerosol

Container size: 100 ml, 125 ml, 150ml, 200 ml, 240 ml, 250 ml, 300 ml, 400 ml, 420 ml

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: Universal lubricant.

1.3. Details of the supplier of the safety data sheet

Manufacturer:
WD-40
Brick Close | Kiln Farm
MK11 3LJ Milton Keynes
United Kingdom

Supplier/Distributor:
Hashahal, Inc.
HaRav Shalom Jarufi St 4
Rishon LeTsiyon
Tel:03-7612700

1.4. Emergency telephone number

Emergency telephone: Israel Poison Information Center: 04-7771900 (24/7)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

The product is classified:

SI 2302 (1): Flam. Aerosol 1 - STOT SE 3;H336 - Asp. Tox. 1

2.2. Label elements



Danger

Contains: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H336 May cause drowsiness or dizziness.

P102 Keep out of reach of children.

P271 Use only outdoors or in a well-ventilated area.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P251 Do not pierce or burn, even after use.

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C.

P211 Do not spray on an open flame or other ignition source.

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P331 Do NOT induce vomiting.

Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

PBT/vPvB: This product does not contain any PBT or vPvB substances.

Other: Aerosol containers can burst violently when heated, due to excess pressure build-up. The product contains volatile, organic compounds which have a photochemical ozone creation potential. The product contains organic solvents. Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: organic solvents, propellants and mineral oil.

SI 2302 (1):

%:	CAS-No.:	EC No.:	Chemical name:	Hazard classification:	Notes:
60-80	-	919-857-5	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	Flam. Liq. 3;H226 STOT SE 3;H336 Asp. Tox. 1;H304	

Reference: The full text for all hazard statements is displayed in section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions.

Skin contact: Remove contaminated clothes and rinse skin thoroughly with water. In case of eczema or other skin disorders: Seek medical attention and bring these instructions.

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Aspiration hazard. Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Immediate transport to hospital. Bring along these instructions.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects: Be aware that symptoms of lung oedema (shortness of breath) may develop up to 24 hours after exposure.

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically. If there is any suspicion of aspiration into the lungs either directly or as a result of vomiting, obtain medical advice.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media: Extinguish with carbon dioxide or dry powder. Cool containers exposed to heat with water spray and remove container, if no risk is involved.
Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Aerosol containers can explode when heated, due to excessive pressure build-up. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Follow precautions for safe handling described in this safety data sheet. Avoid inhalation of vapours and contact with skin and eyes. Do not smoke or use open fire, or other sources of ignition.

6.2. Environmental precautions

Environmental precautions: Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Absorb spillage with non-combustible, absorbing material. Clean contaminated area with oil-removing material.

6.4. Reference to other sections

Reference: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices.
Work practice should minimise contact. Avoid inhalation of vapours and spray mists. Avoid contact with skin and eyes.

Technical measures: Do not smoke or use open fire or other sources of ignition.

Technical precautions: Provide adequate ventilation. Provide easy access to water supply or an emergency shower.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: Follow the rules for storage of flammable products.

Storage conditions: Store in a cool and well-ventilated place. Do not store near heat sources or expose to high temperatures.

Specific use(s): No information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

CAS-No.:	Chemical name:	As:	Exposure limits:	Type:	Notes:	References:
124-38-9	Carbon dioxide	-	5000 ppm	TWA	-	ACGIH
		-	30000 ppm	STEL	15min	

8.2. Exposure controls

Engineering measures:	Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours.
Personal protection:	Personal protection equipment should be chosen according to the ANSI standards and in discussion with the supplier of the personal protective equipment.
Respiratory equipment:	In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment.
Hand protection:	Risk of contact: Wear protective gloves. It is recommended to use gloves of Viton or nitrile rubber. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Other types of gloves can be recommended by the glove supplier.
Eye protection:	Risk of splashes: Wear goggles/face shield.
Hygiene measures:	Wash hands after handling. Do not eat, drink or smoke when using the product. Change contaminated clothing. Wash contaminated clothing before reuse.
Environmental Exposure Controls:	Not available.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance:	Aerosol.
Colour:	Light brown.
Odour:	Characteristic.
pH:	Not available.
Melting point / freezing point:	< - 66°C (ASTM D 97)
Boiling point:	176°C (liquid phase)
Flash point:	47°C (liquid phase)
Explosion limits:	0.6-8.2% vol. (Main components)
Vapour pressure:	7.2 bar (20°C) 9.4 bar (50°C)
Vapour density:	Not available.
Relative density:	0.817 g/ml
Solubility:	Insoluble in water.
Partition coefficient (n-octanol/water):	Not available.
Decomposition temperature (°C):	Not available.
Viscosity:	Kinematic viscosity: 2-3 mm²/s (40 °C)

9.2. Other information

Other data:	Not available.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Reactivity:	Not reactive.

10.2. Chemical stability

Stability:	Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions:	None known.

10.4. Conditions to avoid

Conditions to avoid:	Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Incompatible materials:	Strong oxides.

10.6. Hazardous decomposition products

Hazardous decomposition products:	None in particular.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.

Acute Toxicity (Oral):	Based on available data, the classification criteria are not met.
Acute Toxicity (Dermal):	Based on available data, the classification criteria are not met.
Acute Toxicity (Inhalation):	Based on available data, the classification criteria are not met.
Skin Corrosion/Irritation:	Based on available data, the classification criteria are not met.
Serious eye damage/irritation:	Based on available data, the classification criteria are not met.
Respiratory or skin sensitisation:	Based on available data, the classification criteria are not met.
Germ cell mutagenicity:	Based on available data, the classification criteria are not met.
Carcinogenicity:	Based on available data, the classification criteria are not met.
Reproductive Toxicity:	Based on available data, the classification criteria are not met.
STOT - Single exposure:	May cause drowsiness or dizziness.
STOT - Repeated exposure:	Based on available data, the classification criteria are not met.
Aspiration hazard:	May be fatal if swallowed and enters airways.
Inhalation:	In high concentrations, vapours and spray mists are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact:	Prolonged contact may cause redness, irritation and dry skin.
Eye contact:	May irritate and cause redness and pain.
Ingestion:	Low order of acute toxicity, but aspiration following ingestion and vomiting may cause severe and potentially fatal chemical pneumonitis.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicity:	Not classified as dangerous to the environment. Oil spills are generally hazardous to the environment.

12.2. Persistence and degradability

Degradability:	The degradability of the product has not been stated.

12.3. Bioaccumulative potential

Bioaccumulative potential:	No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:	No data available.

12.5. Results of PBT and vPvB assessment

PBT/vPvB:	This product does not contain any PBT or vPvB substances.

12.6. Other adverse effects

Other adverse effects:	An oil film may cause physical damage to organisms and disturb the transportation of oxygen in the intermediate zone between air/water or water/air.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Do not puncture or incinerate even when empty.

Contaminated packaging: Empty aerosol containers before disposal.

SECTION 14: TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

UN-No: 1950

14.2. UN proper shipping name

Proper Shipping Name: AEROSOLS, flammable

14.3. Transport hazard class(es)

Class: 2

14.4. Packing group

PG: -

14.5. Environmental hazards

Marine pollutant: No.

Environmentally Hazardous Substance: No.

14.6. Special precautions for user

Special precautions: None known.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Transport in bulk: This product is not intended for transport in bulk.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

National regulation: SI 2302 part 1 - Dangerous substances and mixtures: Classification, labelling, marking and packaging, with amendments.
Work Safety Regulations (Safety Data Sheets, Classification, Packing, Labeling and Marking of Packages), 5758-1998, with amendments.
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.
Threshold Limit Values (2018), ACGIH, by the American Conference on Governmental Industrial Hygienists.

SECTION 16: OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Abbreviations and acronyms used in the safety data sheet:	Flam. Liq. = Flammable liquid. Asp. Tox. = Aspiration toxicity. PBT = Persistent, Bioaccumulative and Toxic. STOT SE = Specific target organ toxicity, single exposure. vPvB = very Persistent and very Bioaccumulative.
Additional information:	Classification according to Regulation (EC) No. 1272/2008: Health Hazards: Calculation method. Physical Hazards: Expert judgement.
Wording of H-statements:	
H222	Extremely flammable aerosol.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

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