Periodic Review Report

11-20 46th Road
Long Island City, New York

March 6, 2025

Prepared for:

11-20 46th Road Owner LLC
10 East 34th Street Mezzanine
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Prepared by:

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Certification Statement

For each institutional or engineering control identified for the site, I, David E. Kaiser, P.E., certify that I am currently a NYS registered professional engineer as defined in 6 NYCRR Part 375 and I certify that all of the following statements are true:

A) the institutional control and/or engineering control employed at this site is unchanged from the date the control was put in place, or last approved by DER;

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

C) nothing has occurred that would constitute a violation or failure to comply with any Site Management Plan for this control; and

D) access to the site will continue to be provided to DER to evaluate the remedy, including access to evaluate the continued maintenance of this control.

March 6, 2025

David E. Kaiser, P.E. | Date | Signature/Stamp

Executive Summary

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology D.P.C. (Roux) on behalf of 11-20 46th Road Owner LLC (current Site Owner) and serves as a required element of the remedial program for the 11-20 46th Road Site located at 11-20 46th Road in the Long Island City neighborhood of Queens County, New York (Site). The Site is enrolled in the New York State (NYS) Brownfield Cleanup Program (BCP), which is administered by the New York State Department of Environmental Conservation (NYSDEC) and has been assigned Site Number C241242. The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index No. C241242-05-20, and a Certificate of Completion was issued by NYSDEC on December 23, 2021. Under the BCP, the Site was remediated to allow for restricted residential, commercial, and industrial use, and the Site is currently operating as an office and educational facility for children with special needs.

The following sections provide a summary of the controls implemented for the Site, as well as the inspections, monitoring, and reporting activities completed in accordance with the Site Management Plan (SMP), dated December 21, 2021, which was approved by NYSDEC on December 22, 2021 (Appendix A). The required Site-wide inspection, sub-slab depressurization system (SSDS) monitoring, and indoor air monitoring were completed during this SMP monitoring phase, which spanned from May 1, 2023 to May 1, 2024. The components, data, and rationale included in this PRR demonstrate that the engineering and institutional controls (IC/ECs) are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended by Roux at this time.

1. Introduction

This Periodic Review Report (PRR) was prepared by Roux Environmental Engineering and Geology D.P.C. (Roux) on behalf of 11-20 46th Road Owner LLC (current Site Owner) and serves as a required element of the remedial program for the 11-20 46th Road Site located at 11-20 46th Road in the Long Island City neighborhood of Queens County, New York (Figure 1; "Site"). The Site is enrolled in the New York State (NYS) Brownfield Cleanup Program (BCP), which is administered by the New York State Department of Environmental Conservation (NYSDEC) and has been assigned Site Number C241242. The Site was remediated in accordance with Brownfield Cleanup Agreement (BCA) Index No. C241242-05-20, and a Certificate of Completion was issued by NYSDEC on December 23, 2021.

The following sections provide a brief summary of the controls implemented for the Site, as well as the inspections, monitoring, and reporting activities completed in accordance with the Site Management Plan (SMP), dated December 21, 2021, which was approved by NYSDEC on December 22, 2021 (Appendix A). This PRR documents the Site-wide inspection, sub-slab depressurization system (SSDS) monitoring, and indoor air monitoring that were completed during this SMP monitoring phase from May 1, 2023 to May 1, 2024.

2. Site Overview

2.1 Site Description and History

The Site is located in Long Island City, Queens County, New York and is identified as Block 56, Lot 36 on the New York City Tax Map. The Site is 0.229-acres and is bounded by 11th Street and 46th Road to the northwest, 11th Street and 47th Avenue to the southwest, Jackson Avenue and 21st Street and 47th Avenue to the southeast, and 21st Street and 46th Road to the northeast.

According to available sources, the Site was originally developed as a two-story building, with one of the stories being a partial cellar, in approximately 1957. The Site was occupied by multiple commercial entities including Color Graphics Press, Lillian Graphics, Wayne Graphic Prod, Zenith Graphic Supply, and W&W Jewelers and Zenith Graphics Supply from 1962 to 2015. In 2015, the Site was acquired by 11-20 46th Road Owner LLC and redeveloped into its current state which included the completion of a full subgrade cellar and the construction of two additional upper levels above grade. These construction activities occurred prior to the discovery of soil vapor contamination at the Site, which occurred during a Phase II investigation required by a lender. At this point, 11-20 46th Road Owner LLC enrolled the Site in the BCP and commenced the Site investigation and remediation.

The building is currently occupied by TheraCare of New York, Inc. (Tenant) who operates the Site as an office and as an educational facility for children with special needs. The Tenant moved into the facility after the installation of an SSDS, which was fully functional and tested before occupancy.

The Site is zoned as commercial land and is currently utilized by the Tenant as an office and as an educational facility for children with special needs. The properties adjoining the Site and, in the neighborhood surrounding the Site, primarily include commercial, manufacturing, and residential properties.

2.2 Summary of Remedial Action

The investigations were conducted at the Site to characterize subsurface soil, groundwater, indoor air and soil vapor. Volatile organic compounds (VOCs) were detected above regulatory action levels within sub-slab samples. To remediate these impacts, the following actions were implemented as part of the remedy:

1. Construction and maintenance of a composite cover system, which consists of the concrete cellar slab that was sealed with epoxy or 24-inches of gravel and an asphalt-covered alleyway. This composite cover system serves to prevent human exposure to any remaining contaminated soil/fill remaining at the Site and acts as the sealing layer for the soil vapor mitigation SSDS;
2. Installation and operation of an active SSDS as an engineering control (EC) to mitigate the potential for soil vapor intrusion (SVI);
3. Execution and recording of an Environmental Easement to restrict land use and prevent future exposure to any contamination remaining at the Site;
4. Development and implementation of an SMP for long-term management of remaining contamination as required by the Environmental Easement, which includes plans for: (1) institutional and engineering controls (IC/ECs), (2) monitoring, (3) operation and maintenance and (4) reporting; and
5. Periodic certification of the IC/ECs listed above.

2.2.1 Remedial Action Objectives

The Remedial Action Objectives (RAOs) for the Site established in the 2021 SMP are as follows:

Remedial Action Objectives

Groundwater RAOs

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.

Soil RAOs

RAOs for Public Health Protection

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

Soil Vapor RAOs

RAOs for Public Health Protection

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

2.3 Remaining Contamination

Residual contamination is present at the Site beneath the Site Composite Cover System. Additional information, including tables detailing the remaining contamination at the Site, can be found in section 2.5 of the 2021 SMP.

2.4 Engineering and Institutional Controls

Since residual contamination remains beneath the Site, IC/ECs have been incorporated into the Site remedy as part of the NYSDEC-approved 2021 SMP, to provide proper management of residual contamination in the future and ensure protection of public health and the environment.

2.4.1 Engineering Controls

The Site has ECs consisting of:

- Site Composite Cover System;
- Active SSDS; and
- Carbon Air Filter Drum.

The purpose of each EC is described below:

- **Site Composite Cover System:** The Site Composite Cover System is comprised of building slabs and asphalt or a 24-inch gravel layer and is serving as a permanent control designed to prevent exposure to remaining contamination in soil/fill at the Site.
- **Active SSDS:** The active SSDS is designed to prevent potential vapor intrusion into the tenant spaces at the Site.

- **Carbon Air Filter Drum:** An 85-gallon activated carbon air filter drum with a fan on top was installed in the mechanical space in the northeast corner of the cellar as a precautionary measure. This small, unoccupied space is located in a localized area of the Site where the slab elevation is approximately 20-inches lower than the surrounding cellar slab elevation, and it is partially segregated from the rest of the cellar by deep subsurface foundation elements that may intersect the shallow water table when water table elevations are elevated. As a precautionary measure in the event there is intermittent interruption of vacuum influence in this small, unoccupied area of the building, this activated carbon air filter drum was installed as an extra protective measure. This activated carbon air filter drum is intended to run continuously.

All ECs are fully in place and effective at meeting their objectives.

2.4.2 Institutional Controls

A Site-specific Environmental Easement has been recorded with the Queens County Clerk's Office that provides an enforceable means to manage the remaining contamination at the Site until the Environmental Easement is extinguished in accordance with ECL Article 71, Title 36. The ICs presented in the SMP consist of the following:

- The property may be used for: restricted residential, commercial, and/or industrial use.
- The recorded Environmental Easement must be complied with.
- All ECs must be operated and maintained as specified in the 2021 SMP.
- All ECs must be inspected at a frequency and in a manner defined in 2021 SMP.
- The use of groundwater underlying the property is prohibited without necessary water quality treatment as determined by the New York State Department of Health (NYSDOH) or the NYC Health 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 must be performed as defined in the 2021 SMP.
- Data and information pertinent to site management must be reported at the frequency and in a manner as defined in the 2021 SMP.
- Require the Remedial Party (RP) or Site owner to complete and submit to the NYSDEC a periodic certification of IC/ECs in accordance with Part 375-1.8(h)(3).
- All future activities that will disturb remaining contaminated material must be conducted in accordance with the 2021 SMP.
- Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in the 2021 SMP.
- Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in the 2021 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.

3. SMP Requirements and Compliance Monitoring

Since remaining contaminated soil, groundwater and soil vapor exist beneath the Site, ICs and ECs are required to protect human health and the environment. This section details the elements of the SMP including the inspection, monitoring, and reporting requirements, IC/ECs, whether the IC/EC requirements were met, and regulatory notification and certification requirements. The various subsections below also include an evaluation of the remedy performance, effectiveness, and protectiveness.

3.1 IC/EC Plan Compliance Report

Since remaining contamination exists beneath the Site, ICs and ECs are required to protect human health and the environment and are described in detail in Section 2.4. On an annual basis, required certifications must be made for these Site-specific ICs and ECs to ensure that the required IC/ECs are in place, are performing properly, and remain effective; and to confirm that they are continuing to be protective of human health and the environment. The respective IC/EC Certification Form for the controls that are currently in place for the Site is provided in Appendix B.

3.1.1 Notifications

Notifications will be submitted by the property owner to the NYSDEC, as needed, in accordance with NYSDEC's DER-10 for the following reasons:

- 60-day advance notice of any proposed changes in Site use that are required under the terms of the Order on Consent, 6NYCRR Part 375 and/or Environmental Conservation Law.
- 7-day advance notice of any field activity associated with the remedial program.
- 15-day advance notice of any proposed ground-intrusive activity pursuant to the Excavation Work Plan.
- Notice within 48-hours of any damage or defect to the foundation, structures or EC that reduces or has the potential to reduce the effectiveness of an EC, and likewise, any action to be taken to mitigate the damage or defect.
- Verbal notice by noon of the following day of any emergency, such as a fire, flood, or earthquake that reduces or has the potential to reduce the effectiveness of ECs in place at the Site, along with written confirmation within 7 days that includes a summary of actions taken, or to be taken, and the potential impact to the environment and the public.
- Follow-up status reports on actions taken to respond to any emergency event requiring ongoing responsive action submitted to the NYSDEC within 45 days describing and documenting actions taken to restore the effectiveness of the ECs.

Any change in the ownership of the Site or the responsibility for implementing this SMP will include the following notifications:

- At least 60 days prior to the change, the NYSDEC will be notified in writing of the proposed change. This will include a certification that the prospective purchaser/Remedial Party has been provided with a copy of the Order on Consent, and all approved work plans and reports, including this SMP.
- Within 15 days after the transfer of all or part of the Site, the new owner's name, contact representative, and contact information will be confirmed in writing to the NYSDEC.

No notifications to NYSDEC were required during the reporting period.

3.2 Inspections

All inspections were conducted at the frequency specified in the schedules provided in the following Monitoring Plan Reporting section of this PRR. At a minimum, one Site-wide Cover System and one comprehensive Site-wide inspection are to be conducted annually (starting no more than 15 months after the issuance of the Certificate of Completion [COC]) per the SMP. Details of requirements and completed inspections are provided in the following sections. Inspections of remedial components will also be conducted when a severe condition has taken place, such as power interruption or fire that may affect the ECs. The inspections determine and document the following:

- IC/ECs are in place, are performing properly, and remain effective;
- If these controls continue to be protective of human health and the environment;
- Compliance with requirements of this SMP and the Environmental Easement;
- Achievement of remedial performance criteria;
- Sampling and analysis of appropriate media during monitoring events;
- If Site records are complete and up to date; and
- Changes, or needed changes, to the remedial or monitoring system.

If an emergency, such as a natural disaster or an unforeseen failure of any of the ECs occurs, an inspection of the Site will be conducted within 5 days of the event to verify the effectiveness of the IC/ECs implemented at the Site by a qualified environmental professional as determined by NYSDEC.

3.3 Monitoring Plan Compliance Report

The Monitoring Plan describes the measures for evaluating the performance and effectiveness of the remedy to reduce or mitigate contamination at the Site, the Site cover system, and all affected Site media identified below. Components of the Monitoring Plan are:

- Assessing achievement of the remedial performance criteria;
- Evaluating Site information periodically to confirm that the remedy continues to be effective in protecting public health and the environment; and
- Preparing the necessary reports to document the monitoring activities.

Monitoring of the performance of the remedy and overall reduction in contamination onsite will be conducted for the periods specified for each matrix listed in table below. The frequency is subject to change in consultation with NYSDEC and based on reports submitted showing contaminant trends.

Monitoring Program	Frequency	Analysis
Site-Wide Inspection	Annually. First inspection no more than 15 months after issuance of the COC.	Visual inspection of general Site conditions and ECs
Indoor Air Sampling	Semi-annually	Indoor Air Sampling for VOCs via USEPA Method TO-15 at IA-1, IA-2, IA-4, IA-5, IA-6, IA-9, IA-F1C, IA-F2C, and IA-F3C
Composite Cover System Inspections	Annually	Visual inspection of composite cover system components
SSD System Inspections	Semi-annually	Visual inspection of above-ground system components and alarm testing

A record of the findings of each monitoring/inspection event and maintenance activity performed as described above, where applicable, were documented on the Site Inspection Checklists provided in Appendix C. If at any time during the reporting period a failure of one or more of the ECs or non-compliance with one or more of the ICs is identified, the remedial party must notify NYSDEC and implement corrective measures, in accordance with a Corrective Measures Work Plan (CMWP) submitted to and approved by NYSDEC and provide a periodic certification of the IC/ECs.

3.3.1 Site Cover System

Exposure to remaining contamination at the Site is prevented by a non-mechanical engineered Site composite cover system that consists of:

- 8-inch-thick concrete cellar slab; and
- Asphalt or 24-inch gravel layer in the alleyway.

The location and details of the Site cover system are shown on Figure 2. Monitoring of the Site cover system will occur on an annual basis as long as the Environmental Easement is in effect to ensure the system's integrity. Monitoring consists of visual inspection, which evaluates the structural integrity of the building slabs, asphalt, and 24-inch gravel layer.

Roux performed Site cover system and Site-wide inspections on August 16, 2023 and February 20, 2024. The completed Site Inspection Checklists are provided in Appendix C. These inspections determined that all Site cover system elements described herein were observed to be performing as designed during the reporting period of the PRR and are protective of human health and the environment.

3.3.2 SSDS Monitoring and SVI Sampling

SSDS monitoring and SVI sampling was performed semi-annually. During the reporting period, SVI samples were collected on August 16, 2023 and February 20, 2024. Samples were collected as indoor air samples (locations shown on Figures 3, 4, 5, and 6) for VOCs via EPA Method TO-15. Soil vapor analytical results are provided in Appendix D and summarized on Table 1. The sampling, sample handling, decontamination, and field instrument calibration procedures were performed in accordance with procedures detailed in the SMP.

The most recent round of SVI samples (February 20, 2024) was collected during the heating period, and the detections of the eight NYSDOH matrix compounds are summarized below:

- 1,1,1-trichloroethane (TCA), 1,1-dichloroethene, and vinyl chloride were not detected in the indoor air samples.
- Carbon tetrachloride was detected in the ambient air sample (AA-1) at a concentration of 0.535 µg/m^3 and indoor air samples (IA-1, IA-1 DUP, IA-2, IA-4, IA-5, IA-6, IA-9, IA-F1C, IA-F2C, and IA-F3C) at concentrations ranging from 0.510 to 0.604 µg/m^3.
- Cis-1,2-dichloroethylene was detected in one indoor air sample (IA-2) at a concentration of 0.321 µg/m^3.
- Methylene chloride was detected in indoor air sample (IA-4) at a concentration of 2.62 µg/m^3.
- Tetrachloroethylene was detected in indoor air samples (IA-1, IA-1 DUP, IA-5, IA-6, IA-9, and IA-F3C) at concentrations ranging from 0.190 to 0.359 µg/m^3.
- Trichloroethylene was detected in one indoor air sample (IA-2) at a concentration of 0.360 µg/m^3.

- 1,2,4-trimethylbenzene, 1,3,5-trimethylbenzene, 2,2,4-trimethylpentane, cyclohexane, ethylbenzene, heptane, hexane, m,p-xylene, and o-xylene were not detected in the indoor air samples.
- Benzene was detected in indoor air samples (IA-1, IA-1 DUP, IA-2, IA-4, IA-5, IA-6, IA-9, IA-F1C, IA-F2C, and IA-F3C) at concentrations ranging from 0.738 to 22.6 µg/m^3.
- Toluene was detected in indoor air samples (AA_1, IA-1, IA-1 DUP, IA-2, IA-4, IA-5, IA-6, IA-9, IA-F1C) at concentrations ranging from 0.795 to 5.8 µg/m^3.

During the February 20, 2024 sampling event, one indoor air sample (IA-2) exhibited an elevated concentration of benzene. However, this is a new condition that has not been observed in any previous sampling events. Roux will review the data from the next sampling event in August to determine if this was an anomalous condition or if further action is warranted. Overall, throughout the reporting period, the indoor air detections from the two rounds of sampling indicated that the SSDS was operating as designed and did not suggest the need for additional remedial measures to be taken beyond what is already in place at the Site.

3.3.3 Carbon Air Filter Drum Maintenance

An 85-gallon activated carbon air filter drum with a fan on top was installed in the mechanical space in the northeast corner of the cellar as a precautionary measure. This small, unoccupied space is located in a localized area of the Site where the slab elevation is approximately 20-inches lower than the surrounding cellar slab elevation, and it is partially segregated from the rest of the cellar by deep subsurface foundation elements that may intersect the shallow water table when water table elevations are elevated. As a precautionary measure in the event there is intermittent interruption of vacuum influence in this small, unoccupied area of the building, this activated carbon air filter drum was installed as an extra protective measure. This activated carbon air filter drum is intended to run continuously. The annual maintenance on the drum occurred on September 8, 2023, when General Carbon Corporation of Paterson, New Jersey removed the spent carbon and replaced it with virgin, 4x8 mesh activated carbon.

3.4 Operation and Maintenance Plan Compliance Report

The O&M Plan provided in the SMP:

- Includes the procedures to SSDS start-up and testing;
- Includes the procedures necessary to allow individuals unfamiliar with the Site to operate and maintain the SSDS; and
- Will be updated periodically to reflect changes in site conditions or the manner in which the SSDS system is operated and maintained.

Exposure to intrusion of contaminated soil vapor within the Site building is prevented by an active SSDS, which applies negative pressure under below-grade portions of the Site, collects potentially contaminated vapor, and subsequently discharges the vapor to the atmosphere above the roof the site building.

3.4.1 SSDS System Operation and Maintenance

The routine maintenance activities include visual inspections, operating data collection and general maintenance. Visual inspection is the routine part of the SSDS operator's activities. The system operator will note any conditions which present a potential hazard or could cause future system shutdown. All equipment maintenance and inspections will be performed in accordance with manufacturer's instructions specified in the SMP. Specific routine maintenance tasks are outlined below and were recorded bi-annually on the SSDS O&M Log:

- Inspect control panel and warning lights/alarms;
- Inspect blower piping to confirm operation of appropriate valves (i.e., dilution valve);
- Inspect vacuum/pressure gauges for proper operation;
- Check and clean air filter on each moisture knockout tank; and
- Check for the presence of and remove water in each knockout tank.

The required bi-annual SSDS O&M logs that were completed during the operation of the SSDS during the reporting period are provided in chronological order in Appendix E. O&M activities described herein determined that the O&M Plan was carried out as designed during the reporting period of the PRR and it is protective of human health and the environment. The current O&M Plan being implemented was determined to be successful to date.

3.4.2 Operation and Maintenance of SSDS

3.4.2.1 SSDS Start-Up and Testing

Prior to initial start-up of the SSDS for the building, system electrical checks and visual pipe inspections were completed to ensure a leak tight conveyance system and blower unit operability. In addition, the following performance monitoring checks were performed:

- Confirm operation of the alarm warning light;
- Confirm acceptable air flow rate from the blower by a visual inspection of the gauge affixed to the blower;
- Collect vacuum measurements from soil vapor monitoring points;
- Collect PID readings; and
- Collect confirmation effluent air samples.

The system testing described above will be conducted if, in the course of the SSDS lifetime, the system goes down or significant changes are made to the system and the system must be restarted. The blower unit for the SSDS was started up for continuous operation on August 5, 2020.

3.4.2.2 SSDS Routine System Operation and Maintenance

- Annual Tasks
- Condensate Water Disposal (if required)

3.4.2.3 SSDS Non-Routine System Maintenance

Non-routine equipment maintenance consists of maintenance activities that will be performed with less frequency than the routine maintenance (i.e., semi-annually) on several system components. Non-routine equipment maintenance and inspections. Specific non-routine maintenance tasks are outlined below:

- Inspect and test alarm;
- Check float switch for proper operation;
- Replacement of vacuum/pressure gauges; and
- Change bearings on blowers after 15,000 hours of operation.

Most damage or problems associated with SSDS components will trigger one of the alarms. Damage to any SSDS components will be noted in the routine and detailed system inspections and remedied upon identification. Any maintenance completed for the SSDS should be documented in the Site Management Forms in Appendix E. No non-routine system maintenance was performed during this reporting period.

In the event that low SSDS air flow rates or vacuum are observed anywhere in the system, further system balancing may be necessary following moisture removal, to ensure that the combined air flow rates and vacuum in a given area of the Site achieve the minimum design requirements.

3.4.2.4 System Monitoring Devices and Alarms

The SSDS has warning devices to indicate that the system is not operating properly. The blower has an overload relay that will shut down the blower for too high voltage or current.

The warning device currently consists of a local alarm light on the control panel of the system and a local alarm in the superintendent's office. In the event that warning device is activated, applicable maintenance and repairs will be conducted, as specified in the Operation and Maintenance Plan, and the SSDS will be restarted.

4. Overall Conclusions and Recommendations

The following section presents conclusions from inspections and monitoring activities and recommendations.

- During the February 20, 2024 sampling event, one indoor air sample (IA-2) exhibited an elevated concentration of benzene. However, this is a new condition that has not been observed in any previous sampling events. Roux will review the data from the next sampling event in August to determine if this was an anomalous condition or if further action is warranted.
- Overall, throughout the reporting period, the indoor air detections from the two rounds of sampling indicated that the SSDS was operating as designed and did not suggest the need for additional remedial measures to be taken beyond what is already in place at the Site.
- The ICs and ECs are performing as designed, are effective, and are compliant with specifications described in the SMP. No changes to the monitoring plan are recommended at this time.

TABLE

1. Summary of VOCs in Soil Vapor and Indoor Air

Notes Utilized Throughout Tables
Soil Vapor/Ambient Air Tables
J - Estimated value
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 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1
Sample Date:		08/23/2019	09/26/2019	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.419**	**0.478**	**0.371**	**0.44**	**0.396**	**0.535**	**0.421**	**0.421**	**0.403**
1,1,1-Trichloroethane (TCA)	UG/M3	0.192 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.139 U	**0.202**	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.139 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.189 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**1.12**	**0.956**	0.136 U	0.136 U	**0.407**	**0.244**	**0.244**	**0.244**	**0.549**
Methylene Chloride	UG/M3	3.05 U	**2.23**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.09 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	0.241 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	0.672 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	0.192 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.142 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	0.651 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	**1.21**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	0.27 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	0.211 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.142 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.162 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	0.613 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	**0.353**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.078 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	0.211 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	**0.263**	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.631 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	**9.9**	**1.85**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.06**
2-Hexanone	UG/M3	1.44 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	**0.327**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**15.6**	**10.4**	2.38 U	**4.73**	**6.25**	**5.72**	**9.05**	**6.46**	**13.7**
Allyl Chloride (3-Chloropropene)	UG/M3	1.1 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.693**	0.639 U	0.639 U	0.639 U	0.639 U	**0.786**	0.639 U	**0.831**	**0.696**
Benzyl Chloride	UG/M3	1.82 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	0.235 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	0.363 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.136 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	1.09 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.806 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.462 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1	AA-1
Sample Date:		08/23/2019	09/26/2019	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	**0.274**	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.11**	**1.03**	**0.956**	**1.08**	**1.21**	**1.2**	**1.04**	**1.16**	**0.917**
Cis-1,3-Dichloropropene	UG/M3	0.159 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	1.21 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	0.299 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**1.96**	**2.52**	**1.87**	**1.34**	**2.2**	**3.22**	**1.98**	**2.3**	**2.3**
Ethanol	UG/M3	**36.4**	**47.5**	9.42 U	**12.4**	9.42 U	**11.8**	**10.2**	**17.7**	**15.2**
Ethyl Acetate	UG/M3	3.16 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	**1.01**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	0.935 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**2.46**	**1.99**	1.23 U	**2.16**	**2.78**	**2.37**	**3.02**	**3.12**	**2.3**
m,p-Xylene	UG/M3	**3.47**	**1.82**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**1.95**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	2.59 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	3.59 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	1.44 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	1.24 U	**0.916**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.804**	**5.53**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**1.03**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	**0.239**	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	2.66 U	**3.55**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	1.27 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	**2.68**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**4.45**	**1.84**	0.754 U	0.754 U	**2.46**	**0.953**	**3.24**	**1.81**	**3.64**
Trans-1,2-Dichloroethene	UG/M3	0.139 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.159 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.01**	**1.31**	1.12 U	1.12 U	**1.3**	**1.73**	1.12 U	**1.16**	**1.16**
Vinyl Bromide	UG/M3	1.53 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		AA-1	AA-2	AA-2	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1
Sample Date:		02/20/2024	12/03/2019	03/17/2020	08/23/2019	09/26/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.535**	**0.503**	**0.409**	**0.396**	**0.484**	**0.503**	**0.384**	**0.497**	**0.421**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	**1.19**	**0.801**	**4.12**	**1.17**	**0.464**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	**0.199**	0.107 U	**0.129**	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	0.136 U	**0.285**	**0.502**	**1.01**	**2.27**	**0.495**	**2.31**	**0.644**	**0.332**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	**3.41**	1.74 U	1.74 U	1.74 U	1.74 U	**28.9**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	**0.169**	0.051 U	**0.181**	**0.064**	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	**1.05**	**1.1**	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	**1.54**	**9.29**	0.934 U	0.934 U	**1.17**	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**3.33**	**4.87**	**8.39**	**26.4**	**29.9**	**4.87**	**10.2**	**20.8**	**14.6**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	**0.882**	**0.703**	**1.02**	**0.754**	0.639 U	0.639 U	0.639 U	**0.703**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	**1.17**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		AA-1	AA-2	AA-2	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1
Sample Date:		02/20/2024	12/03/2019	03/17/2020	08/23/2019	09/26/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	**1.02**	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.21**	**0.993**	**1.29**	**0.983**	**1.03**	**1.1**	**1.42**	**1.07**	**0.954**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	**0.916**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.73**	**2.32**	**2.28**	**2.1**	**2.54**	**2.43**	**2.35**	**2.04**	**2.19**
Ethanol	UG/M3	**11.7**	**11.1**	**20.7**	**318**	**281**	**21.1**	**43.5**	**226**	**22.6**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	**2.25**	1.8 U	1.8 U	1.8 U	**2.01**	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	**1.28**	**2.17**	**4.06**	**1.24**	**1.46**	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**1.41**	**1.34**	**5.83**	**3.71**	**8.16**	**7.35**	**5.73**	**295**	**15.7**
m,p-Xylene	UG/M3	1.74 U	**1.95**	1.74 U	**4.6**	**10.8**	**17.8**	**5.17**	**7.08**	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	**1.52**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	**7.95**	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	**1.02**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	**2.22**	**1.13**	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	**1.32**	**3.21**	**5.17**	**1.63**	**2.22**	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	**0.984**	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	**1.79**	**23.3**	1.52 U	1.52 U	**6.09**	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	**6.19**	**1.58**	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**0.81**	**1.76**	**2.75**	**5.8**	**2.33**	0.754 U	**2.08**	**45.2**	**2.94**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.21**	1.12 U	**1.4**	1.12 U	**1.28**	**1.19**	**1.43**	1.12 U	**1.25**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1
Sample Date:		12/06/2020	02/04/2021	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.39**	**0.465**	**0.428**	**0.428**	**0.705**	**0.396**	**0.421**	**0.321**	**0.516**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**1.51**	0.079 U	0.079 U	0.079 U	**0.135**	0.079 U	**0.099**	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.758**	**0.231**	0.107 U	**0.242**	**0.172**	0.107 U	0.107 U	**0.118**	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**1.29**	0.136 U	0.136 U	**0.461**	**0.651**	**0.271**	**0.542**	**0.583**	**0.359**
Methylene Chloride	UG/M3	**74**	**16.7**	**4.48**	**8.41**	**2.75**	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	**0.059**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	**1.37**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**43**	**13.7**	**16**	**17.9**	**13.3**	**18.5**	**14.2**	**18.4**	**5.77**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	0.639 U	**0.891**	0.639 U	**0.853**	0.639 U	**0.738**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	**0.956**	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1	IA-1
Sample Date:		12/06/2020	02/04/2021	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.02**	**0.915**	**1.03**	**1.27**	**1.22**	**1.05**	**1.25**	**1.04**	**1.02**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	**1.37**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**1.82**	**2.26**	**1.3**	**2.3**	**3.11**	**2.15**	**2.37**	**2.25**	**2.55**
Ethanol	UG/M3	**29.2**	**38.3**	**71.8**	**79.9**	**92.3**	**220**	**545**	**213**	**40.3**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.18**	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**15.6**	**5.8**	**14.3**	**20.4**	**6.24**	**16.7**	**19.6**	**8.16**	**3.32**
m,p-Xylene	UG/M3	**2.67**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**2.23**	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	**2.17**	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.796**	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**0.973**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	**1.49**	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**9.08**	**3.47**	**1.18**	**6.78**	**1.6**	**3.28**	**1.89**	**3.21**	**1.15**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	1.12 U	**1.19**	1.12 U	**1.38**	**1.79**	**1.16**	**1.17**	1.12 U	**1.36**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-1	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2
Sample Date:		02/20/2024	08/23/2019	09/26/2019	09/08/2020	11/19/2020	12/06/2020	02/04/2021	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		FD	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.547**	**0.403**	**0.497**	**0.453**	**0.428**	**0.396**	**0.44**	**0.491**	**0.428**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	**1.65**	**1.69**	**0.523**	**1.82**	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	**0.107**	**0.704**	0.107 U	**0.269**	**0.957**	0.107 U	0.107 U	**0.118**
Tetrachloroethylene (PCE)	UG/M3	**0.264**	**0.956**	**5.93**	**0.719**	**0.332**	**2.01**	0.136 U	0.136 U	**0.468**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	**112**	**130**	**5.77**	1.74 U	**3.86**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	**0.194**	**0.092**	0.051 U	**0.059**	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	**1.06**	0.983 U	0.983 U	0.983 U	**1.51**	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	**5.42**	**1.07**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**8.48**	**27.8**	**29.5**	**15.4**	**13.2**	**28.7**	**7.72**	**6.1**	**11**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.869**	**0.652**	**0.732**	0.639 U	**0.668**	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-1	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2
Sample Date:		02/20/2024	08/23/2019	09/26/2019	09/08/2020	11/19/2020	12/06/2020	02/04/2021	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		FD	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.23**	**0.954**	**1.03**	**1.04**	**0.991**	**0.952**	**0.902**	**1.23**	**1.24**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.771**	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.76**	**2.18**	**2.49**	**1.97**	**2.1**	**1.81**	**2.29**	**1.53**	**2.27**
Ethanol	UG/M3	**59.5**	**616**	**207**	**149**	**23.7**	**42.4**	**18.8**	**27.1**	**31.3**
Ethyl Acetate	UG/M3	1.8 U	**4.07**	1.8 U	**1.81**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	**1.52**	**1.21**	**1.12**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**3.91**	**3.69**	**6.76**	**155**	**16.6**	**15.5**	**4.69**	**2.56**	**26.5**
m,p-Xylene	UG/M3	1.74 U	**5.73**	**5.56**	**5.13**	1.74 U	**1.89**	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	**16.3**	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	**0.754**	**1.3**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	**1.58**	**1.69**	**1.7**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	**0.92**	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	**2.99**	**19.6**	**2.82**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	**3.24**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**1**	**4.6**	**2.06**	**24.8**	**3.59**	**6.9**	**1.47**	**0.855**	**4.07**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.14**	1.12 U	**1.25**	1.12 U	**1.27**	1.12 U	**1.23**	**1.15**	**1.35**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-3
Sample Date:		01/07/2022	08/16/2022	08/16/2022	02/20/2023	02/20/2023	08/16/2023	08/16/2023	02/20/2024	12/03/2019
Normal Sample or Field Duplicate:		N	N	FD	N	FD	N	FD	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.598**	**0.415**	**0.434**	**0.447**	**0.434**	**0.459**	**0.352**	**0.51**	**0.465**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	**0.321**	**1.1**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	**0.36**	**0.328**
Tetrachloroethylene (PCE)	UG/M3	**0.325**	**0.271**	**0.271**	**0.651**	**0.631**	**0.461**	**0.515**	**0.332**	**5.21**
Methylene Chloride	UG/M3	**1.93**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.069**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.81**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**8.65**	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**9.93**	**16.5**	**17.4**	**14.8**	**13.8**	**19.5**	**23.1**	**8.69**	**7.44**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.664**	0.639 U	0.639 U	**0.764**	**0.744**	0.639 U	0.639 U	**22.6**	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-2	IA-3
Sample Date:		01/07/2022	08/16/2022	08/16/2022	02/20/2023	02/20/2023	08/16/2023	08/16/2023	02/20/2024	12/03/2019
Normal Sample or Field Duplicate:		N	N	FD	N	FD	N	FD	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.26**	**1.1**	**1.06**	**1.2**	**1.23**	**1.01**	**1**	**1.1**	**0.911**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**3.18**	**2.17**	**2.28**	**2.4**	**2.42**	**2.29**	**2.21**	**2.66**	**2.37**
Ethanol	UG/M3	**74.4**	**93.6**	**105**	**286**	**285**	**130**	**120**	**101**	**15**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.39**	**2.15**	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**2.49**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**9.09**	**9.17**	**9.49**	**22.4**	**22.9**	**7.47**	**6.66**	**11.3**	**4.18**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**11.2**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	**3.07**	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	**0.768**	**0.772**	**6.56**	**7.51**	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**3.59**
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	**1.55**
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**0.987**	**3.27**	**3.05**	**1.71**	**1.68**	**3.27**	**3.27**	**5.8**	**0.855**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.63**	1.12 U	**1.18**	**1.24**	**1.21**	**1.17**	1.12 U	1.12 U	**1.37**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-3	IA-3	IA-3	IA-3	IA-3	IA-3	IA-4	IA-4	IA-4
Sample Date:		01/29/2020	03/17/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	12/03/2019	03/18/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.44**	**0.39**	**0.535**	**0.465**	**0.459**	**0.403**	**0.428**	**0.396**	**0.421**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**1.52**	**0.975**	**1.67**	**0.424**	0.079 U	0.079 U	**1.07**	**1.26**	**1.65**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.134**	0.107 U	0.107 U	**0.236**	0.107 U	0.107 U	**0.134**	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**1.5**	**1.32**	**0.732**	**0.278**	0.136 U	**0.427**	**2.24**	**0.848**	**0.705**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	**91.4**	1.74 U	**3.75**	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	**0.097**	**0.051**	**0.095**	0.051 U	0.051 U	0.051 U	**0.1**	**0.064**	**0.087**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.46**	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	**1.04**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.18**
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**5.11**	**8.34**	**14.8**	**11.2**	**5.72**	**10.7**	**6.27**	**12.3**	**15.6**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	**0.7**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-3	IA-3	IA-3	IA-3	IA-3	IA-3	IA-4	IA-4	IA-4
Sample Date:		01/29/2020	03/17/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	12/03/2019	03/18/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.68**	**1.36**	**1.07**	**0.971**	**0.981**	**1.2**	**0.88**	**1.24**	**1.03**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.45**	**2.38**	**2.03**	**2.33**	**1.4**	**2.17**	**2.3**	**2.3**	**1.95**
Ethanol	UG/M3	**40.9**	**33.4**	**147**	**23.2**	**23.4**	**26.6**	**18.2**	**62.4**	**144**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	**5.13**	**1.37**	**1.04**	0.869 U	0.869 U	0.869 U	**2.98**	**1.95**	**1.16**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**24.2**	**6.19**	**152**	**14**	**2.06**	**23.5**	**3.79**	**7.23**	**170**
m,p-Xylene	UG/M3	**23.1**	**5.82**	**4.91**	1.74 U	1.74 U	1.74 U	**12.9**	**8.34**	**5.26**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.768**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**7.04**	**1.87**	**1.63**	0.869 U	0.869 U	0.869 U	**4.03**	**2.62**	**1.73**
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	**2.82**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	**2.96**
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	0.754 U	**1.85**	**24.1**	**3.35**	**0.776**	**3.84**	**0.942**	**1.95**	**26.1**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.17**	**1.45**	1.12 U	**1.32**	1.12 U	**1.29**	**1.37**	**1.35**	1.12 U
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4
Sample Date:		11/19/2020	03/04/2021	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	FD	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.434**	**0.522**	**0.459**	**0.403**	**0.61**	**0.384**	**0.447**	**0.39**	**0.535**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.349**	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.15**	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.264**	0.136 U	0.136 U	**0.4**	**0.149**	**0.278**	**0.414**	**0.8**	0.136 U
Methylene Chloride	UG/M3	**61.8**	**2.71**	**2.98**	**4.72**	**26.2**	1.74 U	1.74 U	1.74 U	**2.62**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	**1.26**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**10.7**	**7.96**	**11.8**	**10.8**	**10.1**	**15.9**	**10.5**	**19**	**3.68**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.642**	0.639 U	0.639 U	0.639 U	**1.62**	0.639 U	**0.805**	0.639 U	**0.738**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	**3.88**	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4	IA-4
Sample Date:		11/19/2020	03/04/2021	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	FD	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.01**	**1.29**	**1.03**	**1.21**	**1.36**	**1.09**	**1.18**	**0.923**	**1.19**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.28**	**1.64**	**2.13**	**2.24**	**3.62**	**2.06**	**2.35**	**2.32**	**2.68**
Ethanol	UG/M3	**20.3**	**41.1**	**35.6**	**23.4**	**42.4**	**94.6**	**224**	**120**	**17.2**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**2.23**	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**10.9**	**11.4**	**12.4**	**9.76**	**4.99**	**9.39**	**17.1**	**6.96**	**1.61**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	**1.89**	1.47 U	1.47 U	**1.53**	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	**1.24**	0.705 U	**0.881**	**5.39**	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	**369**	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**2.6**	**1.04**	**1.04**	**4.45**	**1.39**	**3.34**	**1.9**	**3.33**	**0.863**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.34**	**1.2**	1.12 U	**1.36**	**1.92**	**1.19**	**1.24**	**1.15**	1.12 U
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5
Sample Date:		12/03/2019	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.497**	**0.415**	**0.478**	**0.472**	**0.516**	**0.428**	**0.535**	**0.396**	**0.403**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.773**	**0.266**	**1.74**	**0.428**	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.124**	0.107 U	0.107 U	0.107 U	0.107 U	**0.161**	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**1.8**	**0.4**	**0.746**	**0.312**	0.136 U	**0.529**	**0.163**	**0.264**	**0.556**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	**25.8**	**6.01**	**11.1**	**1.88**	1.74 U	1.74 U
Vinyl Chloride	UG/M3	**0.061**	0.051 U	**0.087**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	**1.07**	0.983 U	0.983 U	0.983 U	0.983 U	**2.49**	**1.38**	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	**1.05**	0.934 U	0.934 U	0.934 U	**2.46**	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**6.7**	**11.7**	**15.3**	**9.95**	**14.3**	**20**	**8.05**	**16.4**	**14.4**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	**0.639**	0.639 U	**0.68**	0.639 U	0.639 U	**2.15**	0.639 U	**0.808**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5	IA-5
Sample Date:		12/03/2019	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**0.907**	**1.27**	**1.04**	**1.03**	**1.17**	**1.26**	**1.16**	**1.06**	**1.26**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**0.892**	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.44**	**2.27**	**2.01**	**2.34**	**1.06**	**2.24**	**3**	**2.12**	**2.36**
Ethanol	UG/M3	**13**	**95.3**	**139**	**21.3**	**373**	**167**	**90.1**	**96.5**	**447**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	**2.53**	**1.73**	**1.06**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**3**	**9**	**144**	**14**	**89.5**	**13.3**	**6.51**	**9.12**	**32.9**
m,p-Xylene	UG/M3	**11.2**	**7.25**	**5**	1.74 U	1.74 U	1.74 U	**2.34**	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	**4.79**	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**1.69**	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**3.37**	0.705 U	**0.782**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**3.49**	**2.38**	**1.64**	0.869 U	0.869 U	**1.03**	**1.02**	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	**40.6**	**1.11**	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	**1.52**	1.52 U	**2.62**	1.52 U	1.52 U	**1.76**	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**0.931**	**4.33**	**24.4**	**2.26**	**1.88**	**10.1**	**4.33**	**3.34**	**1.8**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.43**	**1.39**	1.12 U	**1.33**	**1.17**	**1.36**	**1.56**	**1.16**	**1.17**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-5	IA-5	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6
Sample Date:		08/16/2023	02/20/2024	12/03/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020	12/06/2020	02/04/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.359**	**0.541**	**0.453**	**0.365**	**0.428**	**0.447**	**0.478**	**0.384**	**0.403**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	**1.52**	**1**	**1.72**	**2.34**	**1.95**	**1.94**	**2**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	**0.172**	**0.355**	0.107 U	0.107 U	0.107 U	**0.623**	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.495**	**0.237**	**2.23**	**0.705**	**1.31**	**0.854**	**0.637**	**1.34**	**0.373**
Methylene Chloride	UG/M3	**2.07**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**28.3**	**68.1**	**6.74**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	**0.141**	**0.059**	**0.072**	**0.112**	**0.082**	**0.061**	**0.102**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	**1.56**	0.983 U	0.983 U	0.983 U	0.983 U	**1.13**	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.09**	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**20.4**	**6.51**	**6.89**	**4.13**	**9.36**	**15.9**	**13.8**	**31.6**	**33.5**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	**0.866**	0.639 U	0.639 U	**0.706**	0.639 U	**0.693**	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-5	IA-5	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6
Sample Date:		08/16/2023	02/20/2024	12/03/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020	12/06/2020	02/04/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**0.913**	**1.23**	**0.938**	**1.09**	**1.32**	**1.06**	**1.03**	**1.02**	**0.907**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**12.2**
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.26**	**2.76**	**2.4**	**1.91**	**2.35**	**2**	**2.32**	**1.89**	**2.26**
Ethanol	UG/M3	**147**	**150**	**11.2**	**18.8**	**45.2**	**166**	**47.5**	**23.6**	**51.1**
Ethyl Acetate	UG/M3	**2.34**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	**3.14**	**3.51**	**1.16**	**1.18**	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**8.38**	**8.92**	**2.8**	**5.46**	**5.68**	**183**	**53.8**	**13.2**	**22.7**
m,p-Xylene	UG/M3	1.74 U	1.74 U	**13.4**	**14.9**	**4.65**	**5.65**	1.74 U	**2.09**	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	**11.3**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	**4.16**	**4.3**	**1.49**	**1.85**	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	**1.81**	1.52 U	1.52 U	**3.21**	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	**3.21**	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**3.37**	**0.795**	**1.15**	**0.837**	**2.45**	**28.2**	**4.79**	**6.93**	**2.75**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.17**	**1.23**	**1.38**	1.12 U	**1.38**	1.12 U	**1.29**	1.12 U	**1.17**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-7	IA-7
Sample Date:		03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024	12/03/2019	03/17/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.554**	**0.396**	**0.497**	**0.365**	**0.22**	**0.396**	**0.604**	**0.459**	**0.428**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.091**	**1.65**	**0.246**	**0.107**	0.079 U	0.079 U	0.079 U	**0.944**	**1.19**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	**0.129**	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	0.136 U	**0.563**	**0.292**	**0.244**	**0.434**	**0.441**	**0.319**	**1.7**	**1.12**
Methylene Chloride	UG/M3	**3.51**	**4.06**	**1.76**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.051 U	**0.148**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.082**	**0.064**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**1.88**	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**17.5**	**15.6**	**7.74**	**15.1**	**6.03**	**17.2**	**5.37**	**6.98**	**8.67**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	**1.33**	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-6	IA-7	IA-7
Sample Date:		03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024	12/03/2019	03/17/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.16**	**1.26**	**1.26**	**1.07**	**1.23**	**0.929**	**1.22**	**0.904**	**1.31**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**1.77**	**2.12**	**3.3**	**2.01**	**2.49**	**2.2**	**2.81**	**2.39**	**2.27**
Ethanol	UG/M3	**104**	**39.6**	**35.2**	**153**	**158**	**198**	**32**	**11.2**	**45.4**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.96**	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**2.74**	**1.43**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**43.5**	**24.2**	**3**	**11.1**	**7.28**	**7.28**	**2.7**	**2.51**	**6.15**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**11.5**	**5.91**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**6.77**	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**3.58**	**1.88**
Styrene	UG/M3	0.852 U	**1.63**	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	**1.48**	1.47 U	1.47 U	1.47 U	**1.66**	1.47 U	1.47 U	**2.16**
Toluene	UG/M3	**1.67**	**5.13**	0.754 U	**2.69**	**1.14**	**2.7**	**1.23**	**1.13**	**2.35**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.22**	**1.28**	**1.51**	1.12 U	1.12 U	1.12 U	**1.18**	**1.39**	**1.26**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-7	IA-7	IA-7	IA-7	IA-7	IA-7	IA-8	IA-8	IA-8
Sample Date:		03/17/2020	09/08/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	12/03/2019	03/17/2020	09/08/2020
Normal Sample or Field Duplicate:		FD	N	FD	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.377**	**0.459 J**	**0.352**	**0.459**	**0.56**	**0.409**	**0.459**	**0.384**	**0.472**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	**0.147 J**	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.789**	**1.13 J**	**1.81**	**0.71**	0.079 U	0.079 U	**0.646**	**0.48**	**1.41**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 UJ	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 UJ	0.107 U	0.107 U	0.107 U	**0.21**	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.698**	**0.515 J**	**0.705**	**0.319**	0.136 U	**0.441**	**1.35**	**0.726**	**0.719**
Methylene Chloride	UG/M3	1.74 U	**2.49 J**	1.74 U	**27.7**	**2.61**	**13**	1.74 U	**2.08**	1.74 U
Vinyl Chloride	UG/M3	0.051 U	0.051 UJ	**0.087**	0.051 U	0.051 U	0.051 U	**0.072**	0.051 U	**0.079**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 UJ	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 UJ	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 UJ	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 UJ	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	**2.91 J**	0.983 U	0.983 U	0.983 U	**2.02**	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 UJ	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 UJ	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 UJ	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 UJ	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 UJ	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 UJ	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	**10.2 J**	**1.28**	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.14**
2-Hexanone	UG/M3	0.82 U	0.82 UJ	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 UJ	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**11.8**	**14.5 J**	**22.3**	**11.8**	**7.74**	**16.8**	**7.08**	**6.84**	**18**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 UJ	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	**5.91 J**	0.639 U	**0.661**	0.639 U	0.639 U	0.639 U	**0.668**	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 UJ	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 UJ	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 UJ	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 UJ	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 UJ	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 UJ	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 UJ	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-7	IA-7	IA-7	IA-7	IA-7	IA-7	IA-8	IA-8	IA-8
Sample Date:		03/17/2020	09/08/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	12/03/2019	03/17/2020	09/08/2020
Normal Sample or Field Duplicate:		FD	N	FD	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 UJ	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.6**	**1.09 J**	**1.04**	**1.02**	**1.16**	**1.24**	**0.927**	**1.28**	**1.07**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	**5.4 J**	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 UJ	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.4**	**2.01 J**	**2.32**	**2.39**	**1.96**	**2.18**	**2.41**	**2.12**	**2.05**
Ethanol	UG/M3	**39.9**	**209 J**	**200**	**41.3**	**24.9**	**78.6**	**12.4**	**37.7**	**192**
Ethyl Acetate	UG/M3	1.8 U	1.8 UJ	**2.01**	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.85**
Ethylbenzene	UG/M3	**0.877**	**3.22 J**	**1.46**	0.869 U	0.869 U	0.869 U	**4.43**	**1.28**	**1.59**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 UJ	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**5.97**	**99.8 J**	**273**	**38.8**	**2.73**	**185**	**2.45**	**4.57**	**245**
m,p-Xylene	UG/M3	**3.63**	**12.3 J**	**6.21**	1.74 U	1.74 U	1.74 U	**19.9**	**5.21**	**7.51**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	**3.13 J**	**1.51**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 UJ	2.05 U	2.05 U	2.05 U	**3.07**	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	**6.76 J**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	**25.1 J**	**0.74**	**1.49**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**1.18**	**4.11 J**	**2.01**	0.869 U	0.869 U	0.869 U	**5.82**	**1.66**	**2.48**
Styrene	UG/M3	0.852 U	0.852 UJ	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 UJ	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	**4.34**
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 UJ	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	**5.57 J**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**1.85**	**37 J**	**33.2**	**2.56**	**1.22**	**7.65**	**0.984**	**2.24**	**38.1**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 UJ	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 UJ	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.49**	1.12 UJ	**1.32**	**1.26**	**1.24**	**1.31**	**1.37**	**1.14**	1.12 U
Vinyl Bromide	UG/M3	0.874 U	0.874 UJ	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-8	IA-8	IA-8	IA-9	IA-9	IA-9	IA-9	IA-9	IA-9
Sample Date:		11/19/2020	03/04/2021	04/12/2021	03/17/2020	09/08/2020	11/19/2020	02/04/2021	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.484**	**0.528**	**0.434**	**0.409**	**0.535**	**0.472**	**0.415**	**0.547**	**0.415**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.416**	0.079 U	0.079 U	**1.82**	**2.21**	**0.829**	**1.67**	0.079 U	**0.856**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	**0.124**
Tetrachloroethylene (PCE)	UG/M3	**0.312**	0.136 U	**0.475**	**1.24**	**0.807**	**0.346**	**0.353**	0.136 U	**0.549**
Methylene Chloride	UG/M3	**8.44**	**3.24**	**3.58**	1.74 U	1.74 U	**23.3**	**6.18**	**3.35**	**4.34**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	**0.084**	**0.11**	0.051 U	**0.074**	0.051 U	**0.079**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	**2.11**	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	**1.08**	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**6.37**	**19.9**	**14.9**	**8.05**	**17.3**	**11.1**	**34**	**16.8**	**15.1**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.661**	0.639 U	0.639 U	**0.649**	0.639 U	**0.684**	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-8	IA-8	IA-8	IA-9	IA-9	IA-9	IA-9	IA-9	IA-9
Sample Date:		11/19/2020	03/04/2021	04/12/2021	03/17/2020	09/08/2020	11/19/2020	02/04/2021	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.01**	**1.15**	**1.29**	**1.29**	**1.07**	**1.05**	**0.902**	**1.21**	**1.26**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**12.4**	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.23**	**2.25**	**2.22**	**2.34**	**2.01**	**2.16**	**2.25**	**1.79**	**2.18**
Ethanol	UG/M3	**19.8**	**139**	**45.2**	**40.5**	**166**	**36.6**	**46.9**	**97.2**	**44.8**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	**1.9**	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	**1.11**	**1.23**	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**17.9**	**29.5**	**8.65**	**5.33**	**205**	**33.2**	**24.2**	**45.7**	**30.7**
m,p-Xylene	UG/M3	1.74 U	1.74 U	**2.44**	**4.6**	**5.73**	1.74 U	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	**2.58**	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.722**	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	**1.05**	**1.48**	**1.91**	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	**0.924**	0.852 U	0.852 U	0.852 U	**1.3**
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	**3.58**	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	**2.06**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**1.77**	**1.3**	**6.71**	**2.25**	**29.7**	**4.11**	**2.29**	**1.67**	**5.2**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.25**	1.12 U	**1.34**	**1.34**	1.12 U	**1.29**	**1.16**	**1.14**	**1.38**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-9	IA-9	IA-9	IA-9	IA-9	IA-10	IA-10	IA-10	IA-10
Sample Date:		01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024	03/17/2020	09/08/2020	11/19/2020	11/19/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	FD
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.623**	**0.396**	**0.44**	**0.377**	**0.547**	**0.39**	**0.472**	**0.465**	**0.497**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	**0.087**	0.079 U	0.079 U	0.079 U	**1.26**	**1.57**	**1.79**	**1.8**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.237**	**0.264**	**0.21**	**0.529**	**0.197**	**1.1**	**0.712**	**0.59**	**0.556**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**26.3**	**27.7**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	**0.051**	**0.079**	**0.067**	**0.061**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.07**	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**8.17**	**16.1**	**6.53**	**16.4**	**4.35**	**8.98**	**17**	**13.2**	**14.3**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.7**	0.639 U	**0.866**	0.639 U	**2.1**	0.639 U	0.639 U	**0.677**	**0.735**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-9	IA-9	IA-9	IA-9	IA-9	IA-10	IA-10	IA-10	IA-10
Sample Date:		01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024	03/17/2020	09/08/2020	11/19/2020	11/19/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	FD
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.45**	**1.02**	**1.19**	**0.931**	**1.24**	**1.25**	**1.03**	**0.981**	**1.08**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**3.74**	**2.14**	**2.43**	**2.25**	**2.77**	**2.19**	**2.06**	**2.22**	**2.42**
Ethanol	UG/M3	**20.3**	**149**	**20.3**	**138**	**10.6**	**39.9**	**170**	**36.6**	**38.6**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	**1.9**	1.8 U	1.8 U	**1.82**	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**1.24**	**1.17**	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**3**	**11.6**	**3.32**	**6.32**	**1.38**	**5.26**	**211**	**33.2**	**34.2**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**5**	**5.56**	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	**0.853**	**0.74**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	**1.61**	**1.84**	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	**3.43**	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	0.754 U	**2.92**	**1.7**	**3.5**	**1.65**	**2.02**	**30.4**	**3.75**	**3.92**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**2**	1.12 U	**1.21**	1.12 U	**1.18**	**1.36**	1.12 U	**1.25**	**1.32**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-10	IA-10	IA-12	IA-12	IA-12	IA-12	IA-12	IA-13	IA-13
Sample Date:		03/04/2021	04/12/2021	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	03/18/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.51**	**0.384**	**0.384**	**0.434**	**0.465**	**0.56**	**0.403**	**0.396**	**0.478**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	**1.41**	**1.54**	**0.373**	0.079 U	**0.087**	**0.932**	**1.63**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	**0.172**	0.107 U	0.107 U	**0.215**	0.107 U	**0.193**	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	0.136 U	**0.475**	**1.15**	**0.719**	**0.264**	0.136 U	**0.387**	**0.698**	**0.719**
Methylene Chloride	UG/M3	1.74 U	**10.8**	1.74 U	1.74 U	**66.7**	**2.91**	**6.46**	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	**0.077**	**0.069**	0.051 U	0.051 U	0.051 U	**0.054**	**0.077**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	**2.63**	**1.84**	0.983 U	0.983 U	0.983 U	0.983 U	**1.68**	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	**1.08**	0.934 U	0.934 U	0.934 U	0.934 U	**1.02**
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**8.24**	**22.9**	**12.3**	**16.3**	**9.24**	**8.12**	**13**	**12.2**	**16.2**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	**0.652**	0.639 U	**0.834**	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-10	IA-10	IA-12	IA-12	IA-12	IA-12	IA-12	IA-13	IA-13
Sample Date:		03/04/2021	04/12/2021	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	03/18/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.18**	**1.26**	**1.32**	**1.04**	**0.989**	**1.15**	**1.22**	**1.22**	**1.08**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**1.64**	**2.27**	**2.39**	**2.02**	**2.39**	**1.88**	**2.22**	**2.29**	**2.09**
Ethanol	UG/M3	**61.6**	**84.2**	**46**	**159**	**26.4**	**32.2**	**56.7**	**33.5**	**144**
Ethyl Acetate	UG/M3	1.8 U	**3.08**	1.8 U	**2.17**	1.8 U	1.8 U	1.8 U	1.8 U	**1.9**
Ethylbenzene	UG/M3	0.869 U	0.869 U	**3.31**	**1.18**	0.869 U	0.869 U	0.869 U	**2.28**	**1.08**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**59.5**	**347**	**7.47**	**168**	**14.3**	**5.6**	**7.25**	**5.83**	**168**
m,p-Xylene	UG/M3	1.74 U	1.74 U	**13.9**	**5.6**	1.74 U	1.74 U	1.74 U	**9.64**	**5.08**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	**2.5**	2.05 U	2.05 U	2.05 U	2.05 U	**2.14**	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	**1.39**	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	**0.726**	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	**4.34**	**1.82**	0.869 U	0.869 U	0.869 U	**3.07**	**1.7**
Styrene	UG/M3	0.852 U	0.852 U	**1.86**	0.852 U	0.852 U	0.852 U	**1.38**	**1.62**	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	**2.77**	**3.21**	1.52 U	1.52 U	1.52 U	**1.54**	**3.15**
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	**2.84**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**1.94**	**5.69**	**4.86**	**27.5**	**3.67**	**1.14**	**5.39**	**4.6**	**27.3**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.19**	**1.41**	**1.44**	1.12 U	**1.31**	**1.15**	**1.34**	**1.37**	1.12 U
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-13	IA-13	IA-13	IA-13	IA-14	IA-14	IA-14	IA-14	IA-14
Sample Date:		11/19/2020	03/04/2021	04/12/2021	04/12/2021	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		N	N	N	FD	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.465**	**0.465**	**0.409**	**0.415**	**0.396**	**0.447**	**0.459**	**0.541**	**0.396**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.496**	0.079 U	0.079 U	0.079 U	**1.27**	**1.52**	**0.638**	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	**0.124**	0.107 U	0.107 U	**0.22**	0.107 U	**0.188**
Tetrachloroethylene (PCE)	UG/M3	**0.325**	0.136 U	**0.454**	**0.441**	**1.46**	**0.726**	**0.332**	0.136 U	**0.515**
Methylene Chloride	UG/M3	**23**	**3.68**	**7.3**	**7.09**	1.74 U	1.74 U	**81.6**	**1.84**	**6.04**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	**0.064**	**0.082**	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	**2.32**	**2.27**	**1.29**	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	**1.03**	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**12.2**	**11.6**	**15.8**	**15.3**	**10.8**	**16.3**	**16.1**	**7.39**	**13.5**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	**0.677**	0.639 U	0.639 U	0.639 U	**0.69**	0.639 U	**0.716**	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-13	IA-13	IA-13	IA-13	IA-14	IA-14	IA-14	IA-14	IA-14
Sample Date:		11/19/2020	03/04/2021	04/12/2021	04/12/2021	03/18/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021
Normal Sample or Field Duplicate:		N	N	N	FD	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.07**	**1.13**	**1.22**	**1.25**	**1.28**	**1.02**	**1.1**	**1.19**	**1.23**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	**0.723**	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.37**	**1.43**	**2.24**	**2.21**	**2.39**	**1.98**	**2.48**	**1.61**	**2.23**
Ethanol	UG/M3	**23.4**	**409**	**60.1**	**64.3**	**49.4**	**147**	**31.8**	**22.6**	**48**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	**1.85**	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	**4.29**	**1.13**	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**17.6**	**128**	**20.6**	**17.1**	**7.87**	**172**	**17**	**3.34**	**24.6**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	**16.2**	**5.26**	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	**3.66**	**3.76**	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	**0.832**	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	**0.882**	0.869 U	**5.56**	**1.74**	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	**9.2**	**8.77**	**1.41**	0.852 U	0.852 U	0.852 U	**0.911**
Tert-Butyl Alcohol	UG/M3	**2.2**	1.52 U	1.52 U	1.52 U	**2.59**	**3.27**	**1.94**	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**2.36**	**1.36**	**7.24**	**7.16**	**6.07**	**27.6**	**3.76**	**1.08**	**5.2**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.3**	1.12 U	**1.39**	**1.43**	**1.41**	1.12 U	**1.44**	**1.18**	**1.38**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C
Sample Date:		01/29/2020	03/17/2020	03/17/2020	11/19/2020	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022
Normal Sample or Field Duplicate:		N	N	FD	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.403**	**0.39**	**0.403**	**0.453**	**0.377**	**0.503**	**0.421**	**0.566**	**0.453**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	**0.456**	**0.492**	**0.722**	**1.13**	0.079 U	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	**0.661**	**1.81**	**0.183**	**0.183**	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.251**	**0.807**	**0.821**	**0.441**	**1.76**	0.136 U	**0.38**	**0.203**	**0.244**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	**73.6**	**84.4**	**5.11**	**9.1**	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	**6.93**	**1.01**	**2.4**	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	**1.85**	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	**1.26**	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**4.2**	**8.39**	**8.69**	**19.6**	**32.3**	**24.7**	**22.6**	**10.6**	**16.1**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	**0.649**	0.639 U	0.639 U	0.639 U	**0.716**	0.639 U
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C	IA-F1C
Sample Date:		01/29/2020	03/17/2020	03/17/2020	11/19/2020	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022
Normal Sample or Field Duplicate:		N	N	FD	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.14**	**1.3**	**1.35**	**1.14**	**1**	**1.88**	**1.2**	**1.23**	**1.07**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**1.92**	**2.36**	**2.48**	**2.49**	**1.94**	**1.51**	**2.2**	**3.19**	**2.24**
Ethanol	UG/M3	9.42 U	**29.4**	**32.4**	**51.4**	**45.6**	**37.3**	**38.8**	**76.9**	**46.2**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	**1.47**	**1**	**1.02**	0.869 U	**1.79**	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**1.62**	**5.38**	**4.67**	**37.6**	**30.5**	**11.4**	**5.19**	**3.54**	**4.67**
m,p-Xylene	UG/M3	**6.17**	**4.14**	**4.1**	1.74 U	**8.99**	1.74 U	**2.05**	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	**5.82**	2.05 U	**3.58**	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	**1.48**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**1.75**	**1.32**	**1.32**	0.869 U	**3.32**	0.869 U	**1.08**	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	**1.56**	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	**2.45**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	**1.91**	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**0.822**	**2.25**	**2.16**	**5.99**	**26.5**	**4.11**	**6.29**	**0.92**	**3.26**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	1.12 U	**1.39**	**1.48**	**1.4**	1.12 U	1.12 U	**1.35**	**1.71**	**1.2**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F1C	IA-F1C	IA-F1C	IA-F1E	IA-F1E	IA-F1W	IA-F2C	IA-F2C	IA-F2C
Sample Date:		02/20/2023	08/16/2023	02/20/2024	12/03/2019	09/08/2020	12/03/2019	01/29/2020	03/17/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.45**	**0.39**	**0.598**	**0.447**	**0.459**	**0.472**	**0.365**	**0.415**	**0.459**
1,1,1-Trichloroethane (TCA)	UG/M3	0.2 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	0.146 U	0.079 U	0.079 U	**0.547**	**0.127**	**0.381**	0.079 U	**0.309**	**0.139**
1,1-Dichloroethene	UG/M3	0.146 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	0.197 U	0.107 U	0.107 U	**0.226**	0.107 U	**0.161**	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	0.249 U	**0.454**	0.136 U	**3.62**	**0.481**	**1.78**	**0.136**	**0.685**	**0.529**
Methylene Chloride	UG/M3	**5.66**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.094 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	2.52 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	2.81 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	2 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	1.49 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	2.72 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	1.8 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	2.82 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	2.21 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	1.49 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	1.7 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	2.57 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	1.8 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.812 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	2.21 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	2.21 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	1.32 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	1.71 U	0.934 U	0.934 U	0.934 U	**1.23**	0.934 U	0.934 U	0.934 U	**0.967**
2-Hexanone	UG/M3	1.5 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	1.8 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**19.7**	**17.2**	**10.6**	**5.7**	**15.6**	**5.08**	**5.8**	**7.6**	**9.67**
Allyl Chloride (3-Chloropropene)	UG/M3	1.15 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	1.17 U	0.639 U	**0.748**	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U
Benzyl Chloride	UG/M3	1.9 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	2.46 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	3.79 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	1.43 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	1.14 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	1.69 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.968 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F1C	IA-F1C	IA-F1C	IA-F1E	IA-F1E	IA-F1W	IA-F2C	IA-F2C	IA-F2C
Sample Date:		02/20/2023	08/16/2023	02/20/2024	12/03/2019	09/08/2020	12/03/2019	01/29/2020	03/17/2020	09/08/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	1.79 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.34**	**0.952**	**1.34**	**0.983**	**1.01**	**1.38**	**1.1**	**1.31**	**0.989**
Cis-1,3-Dichloropropene	UG/M3	1.67 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	1.26 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	3.13 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.34**	**2.28**	**2.71**	**2.28**	**2.02**	**2.45**	**1.93**	**2.4**	**1.97**
Ethanol	UG/M3	**439**	**95**	**1350**	**19**	**335**	**19**	9.42 U	**26.8**	**111**
Ethyl Acetate	UG/M3	3.3 U	1.8 U	1.8 U	1.8 U	**4.47**	1.8 U	1.8 U	1.8 U	**2.98**
Ethylbenzene	UG/M3	1.59 U	0.869 U	0.869 U	**1.36**	**1.43**	**1.15**	**1.17**	0.869 U	**1.1**
Hexachlorobutadiene	UG/M3	3.91 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**29.3**	**5.8**	**30**	**2.45**	**337**	**2.23**	**1.27**	**5.14**	**34.4**
m,p-Xylene	UG/M3	3.18 U	1.74 U	1.74 U	**5.91**	**6.69**	**5.04**	**4.78**	**2.3**	**5.13**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	2.7 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	3.75 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	1.5 U	0.82 U	0.82 U	0.82 U	**1.11**	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	1.29 U	0.705 U	0.705 U	0.705 U	**0.846**	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	1.59 U	0.869 U	0.869 U	**1.97**	**2.13**	**1.74**	**1.37**	0.869 U	**1.63**
Styrene	UG/M3	1.56 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	2.78 U	1.52 U	1.52 U	1.52 U	**4.97**	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	1.32 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	2.7 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**2.2**	**3.24**	**1.13**	**0.976**	**34**	0.754 U	**0.908**	**2.46**	**8.93**
Trans-1,2-Dichloroethene	UG/M3	1.46 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	1.67 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	2.06 U	**1.19**	**1.16**	**1.43**	1.12 U	**1.42**	1.12 U	**1.49**	1.12 U
Vinyl Bromide	UG/M3	1.6 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C
Sample Date:		11/19/2020	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.434**	**0.396**	**0.491**	**0.396**	**0.541**	**0.459**	**0.421**	**0.497**	**0.554**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.714**	**0.603**	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.236**	**0.344**	0.107 U	**0.134**	0.107 U	0.107 U	**0.199**	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**0.427**	**0.834**	0.136 U	**0.529**	**0.231**	**0.292**	**0.359**	**0.583**	0.136 U
Methylene Chloride	UG/M3	**48.6**	**35.1**	**2.31**	**4.38**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**12.4**	**12.4**	**10.9**	**11.9**	**7.27**	**11**	**7.82**	**12.7**	**3.63**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	0.639 U	**0.693**	0.639 U	**0.741**	0.639 U	**0.815**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C	IA-F2C
Sample Date:		11/19/2020	12/06/2020	03/04/2021	04/12/2021	01/07/2022	08/16/2022	02/20/2023	08/16/2023	02/20/2024
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.02**	**1.12**	**1.13**	**1.24**	**1.38**	**1.08**	**1.17**	**0.902**	**1.22**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.45**	**1.91**	**2.19**	**2.23**	**3.44**	**2.34**	**2.37**	**2.35**	**2.78**
Ethanol	UG/M3	**34.1**	**20.2**	**25.1**	**35.4**	**39.8**	**10.2**	**36.9**	**17.4**	**62.7**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**24.5**	**9.93**	**4.62**	**7.18**	**3.22**	**3.22**	**4.28**	**2.39**	**2.61**
m,p-Xylene	UG/M3	1.74 U	**1.95**	1.74 U	**2.77**	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	**1.25**	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	**0.786**	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	**1.08**	0.869 U	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**2.93**	**3.21**	**0.878**	**3.7**	0.754 U	**3.12**	**1.29**	**3.17**	0.754 U
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.31**	1.12 U	**1.23**	**1.34**	**1.88**	**1.21**	**1.28**	**1.13**	**1.14**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F2E	IA-F2W	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C
Sample Date:		12/03/2019	12/03/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	01/07/2022
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.465**	**0.459**	**0.384**	**0.39**	**0.453**	**0.478**	**0.572**	**0.428**	**0.591**
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U
Cis-1,2-Dichloroethylene	UG/M3	**0.813**	**0.408**	**0.119**	**0.329**	**0.091**	**0.777**	0.079 U	0.079 U	0.079 U
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U
Trichloroethylene (TCE)	UG/M3	**0.285**	**0.107**	0.107 U	0.107 U	0.107 U	**0.296**	0.107 U	0.107 U	0.107 U
Tetrachloroethylene (PCE)	UG/M3	**3.28**	**1.27**	**0.285**	**0.631**	**0.468**	**0.448**	0.136 U	**0.468**	**0.237**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**47.2**	**2.44**	**4.03**	**2.13**
Vinyl Chloride	UG/M3	**0.102**	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U	0.051 U
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	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	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	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 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	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	1.2 U	1.2 U	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	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	**0.972**	0.934 U	0.934 U	0.934 U	0.934 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U
Acetone	UG/M3	**6.06**	**5.34**	**3.52**	**9.12**	**8.77**	**17.6**	**10**	**13.5**	**9.91**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U
Benzene	UG/M3	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	0.639 U	**0.658**	0.639 U	**0.754**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F2E	IA-F2W	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3C
Sample Date:		12/03/2019	12/03/2019	01/29/2020	03/17/2020	09/08/2020	11/19/2020	03/04/2021	04/12/2021	01/07/2022
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U
Chloromethane	UG/M3	**1.08**	**0.919**	**1.11**	**1.36**	**1.01**	**1.07**	**1.21**	**1.19**	**1.24**
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	**2.37**	**2.46**	**1.91**	**2.45**	**2.01**	**2.36**	**1.67**	**2.25**	**3.31**
Ethanol	UG/M3	**49.6**	**38.4**	**11.3**	**32.6**	**154**	**71.6**	**60.7**	**36**	**49.6**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	**4.65**	1.8 U	1.8 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	**1.75**	**1.34**	**5.34**	**1.87**	**1.12**	0.869 U	0.869 U	0.869 U	0.869 U
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U
Isopropanol	UG/M3	**3.15**	**1.89**	**2.05**	**5.56**	**37.4**	**56.3**	**8.41**	**10.9**	**2.97**
m,p-Xylene	UG/M3	**7.38**	**6.08**	**22.4**	**7.69**	**5.04**	1.74 U	1.74 U	**1.78**	1.74 U
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	**2.13**	2.05 U	2.05 U	2.05 U	2.05 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	**0.979**	0.82 U	0.82 U	0.82 U	0.82 U
N-Hexane	UG/M3	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	**2.51**	**2.05**	**6.39**	**2.35**	**1.65**	0.869 U	0.869 U	0.869 U	0.869 U
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	**2.58**	**1.86**	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U	1.52 U
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U
Toluene	UG/M3	**0.931**	0.754 U	**0.799**	**2.27**	**9.61**	**3.5**	**1.59**	**3.99**	**0.889**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	**1.26**	**1.42**	1.12 U	**1.53**	1.12 U	**1.3**	**1.29**	**1.37**	**1.64**
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3E	IA-F3W	SS-1	SS-2	SS-3
Sample Date:		08/16/2022	02/20/2023	08/16/2023	02/20/2024	12/03/2019	12/03/2019	09/26/2019	09/26/2019	09/26/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	**0.465**	**0.459**	**0.377**	**0.566**	**0.459**	**0.415**	1.57 U	1.8 U	4.2 U
1,1,1-Trichloroethane (TCA)	UG/M3	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	0.109 U	1.36 U	1.56 U	3.64 U
Cis-1,2-Dichloroethylene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	**0.757**	**0.884**	**28.4**	1.13 U	**70.6**
1,1-Dichloroethene	UG/M3	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.079 U	0.991 U	1.13 U	2.64 U
Trichloroethylene (TCE)	UG/M3	0.107 U	0.107 U	0.107 U	0.107 U	**0.193**	**0.231**	**7.9**	1.54 U	**11**
Tetrachloroethylene (PCE)	UG/M3	**0.325**	**0.271**	**0.563**	**0.19**	**2.71**	**3.21**	**67.5**	**22.9**	**71.2**
Methylene Chloride	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	**3.39**	2.48 U	**9.03**
Vinyl Chloride	UG/M3	0.051 U	0.051 U	0.051 U	0.051 U	**0.067**	**0.056**	**16.7**	0.731 U	**111**
1,1,2,2-Tetrachloroethane	UG/M3	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	1.72 U	1.96 U	4.58 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	1.92 U	2.19 U	5.11 U
1,1,2-Trichloroethane	UG/M3	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	1.36 U	1.56 U	3.64 U
1,1-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	1.01 U	1.16 U	2.7 U
1,2,4-Trichlorobenzene	UG/M3	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	1.86 U	2.12 U	4.95 U
1,2,4-Trimethylbenzene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	**2.12**	**1.94**	**8.11**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	1.92 U	2.2 U	5.13 U
1,2-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.72 U	4.01 U
1,2-Dichloroethane	UG/M3	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	1.01 U	1.16 U	2.7 U
1,2-Dichloropropane	UG/M3	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	1.16 U	1.32 U	3.08 U
1,2-Dichlorotetrafluoroethane	UG/M3	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	1.75 U	2 U	4.66 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.23 U	1.41 U	**4.82**
1,3-Butadiene	UG/M3	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	**1.46**	0.633 U	1.48 U
1,3-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.72 U	4.01 U
1,4-Dichlorobenzene	UG/M3	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	1.5 U	1.72 U	4.01 U
1,4-Dioxane (P-Dioxane)	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	**5.48**	**1.17**	2.4 U
2,2,4-Trimethylpentane	UG/M3	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	0.934 U	1.17 U	**2.88**	3.12 U
2-Hexanone	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	1.02 U	**3.72**	2.73 U
4-Ethyltoluene	UG/M3	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	1.23 U	1.41 U	3.28 U
Acetone	UG/M3	**11.5**	**11.4**	**14.1**	**6.7**	**6.41**	**5.49**	**651**	**820**	**1710**
Allyl Chloride (3-Chloropropene)	UG/M3	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	0.783 U	0.895 U	2.09 U
Benzene	UG/M3	0.639 U	**0.802**	0.639 U	**0.882**	0.639 U	0.639 U	**27.5**	**3.32**	**72.5**
Benzyl Chloride	UG/M3	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	1.29 U	1.48 U	3.45 U
Bromodichloromethane	UG/M3	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	1.67 U	1.92 U	4.47 U
Bromoform	UG/M3	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	2.58 U	2.96 U	6.9 U
Bromomethane	UG/M3	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	0.971 U	1.11 U	2.59 U
Carbon Disulfide	UG/M3	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	0.623 U	**12.7**	**3.24**	**204**
Chlorobenzene	UG/M3	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	1.15 U	1.32 U	3.07 U
Chloroethane	UG/M3	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	0.66 U	0.755 U	1.76 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		IA-F3C	IA-F3C	IA-F3C	IA-F3C	IA-F3E	IA-F3W	SS-1	SS-2	SS-3
Sample Date:		08/16/2022	02/20/2023	08/16/2023	02/20/2024	12/03/2019	12/03/2019	09/26/2019	09/26/2019	09/26/2019
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	0.977 U	**9.77**	1.4 U	3.26 U
Chloromethane	UG/M3	**1.04**	**1.29**	**0.894**	**1.26**	**0.96**	**1.01**	**4.83**	0.591 U	1.38 U
Cis-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	1.13 U	1.3 U	3.03 U
Cyclohexane	UG/M3	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	0.688 U	**15.8**	**2.17**	**120**
Dibromochloromethane	UG/M3	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	2.13 U	2.44 U	5.68 U
Dichlorodifluoromethane	UG/M3	**2.34**	**2.49**	**2.25**	**2.77**	**2.41**	**2.3**	**2.84**	**2.95**	3.3 U
Ethanol	UG/M3	9.42 U	**68.2**	**13.9**	**110**	**21.1**	**24.1**	**379**	**177**	**220**
Ethyl Acetate	UG/M3	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	2.25 U	2.57 U	6.02 U
Ethylbenzene	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	**0.986**	**1.6**	**3.14**	**3.5**	**7.86**
Hexachlorobutadiene	UG/M3	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	2.67 U	3.05 U	7.11 U
Isopropanol	UG/M3	**2.23**	**6.59**	**2.25**	**3.59**	**2.16**	**2.75**	**33.2**	**27.8**	**32.4**
m,p-Xylene	UG/M3	1.74 U	1.74 U	1.74 U	1.74 U	**4.56**	**6.6**	**12.1**	**13.1**	**21.8**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	**31**	**49.8**	**43.9**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	2.05 U	**18.3**	**12**	6.84 U
N-Heptane	UG/M3	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	**37.5**	**3.41**	**60.7**
N-Hexane	UG/M3	0.705 U	**0.927**	0.705 U	0.705 U	0.705 U	0.705 U	**125**	**7.65**	**130**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	0.869 U	0.869 U	0.869 U	0.869 U	**1.5**	**2.19**	**2.56**	**2.84**	**9.82**
Styrene	UG/M3	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	0.852 U	1.06 U	1.22 U	2.84 U
Tert-Butyl Alcohol	UG/M3	1.52 U	1.52 U	1.52 U	1.52 U	**1.55**	**2.14**	**15.9**	**16.6**	**17.8**
Tert-Butyl Methyl Ether	UG/M3	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	0.901 U	1.03 U	2.4 U
Tetrahydrofuran	UG/M3	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.47 U	1.84 U	2.11 U	4.93 U
Toluene	UG/M3	**3.1**	**1.5**	**2.8**	0.754 U	0.754 U	**1.07**	**15.6**	**11.7**	**39.9**
Trans-1,2-Dichloroethene	UG/M3	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	**2.47**	1.13 U	**8.92**
Trans-1,3-Dichloropropene	UG/M3	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	1.13 U	1.3 U	3.03 U
Trichlorofluoromethane	UG/M3	**1.27**	**1.3**	1.12 U	**1.24**	**1.37**	**1.16**	**2.44**	**13.7**	3.75 U
Vinyl Bromide	UG/M3	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	1.09 U	1.25 U	2.92 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		SS-4	SS-5	SS-6	SS-7	SS-7	SS-8	SS-8	SS-9	SS-9
Sample Date:		09/26/2019	09/26/2019	09/26/2019	12/03/2019	03/17/2020	12/03/2019	03/18/2020	12/03/2019	03/18/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	9 U	1.8 U	3.5 U	1.26 U	1.26 U	1.26 U	1.26 U	2.09 U	1.26 U
1,1,1-Trichloroethane (TCA)	UG/M3	7.8 U	1.56 U	3.03 U	1.09 U	1.09 U	1.09 U	1.09 U	1.82 U	1.09 U
Cis-1,2-Dichloroethylene	UG/M3	**36.2**	**101**	2.2 U	**2.03**	**1.44**	0.793 U	0.793 U	**5.23**	**8.17**
1,1-Dichloroethene	UG/M3	5.67 U	1.13 U	2.2 U	0.793 U	0.793 U	0.793 U	0.793 U	1.32 U	0.793 U
Trichloroethylene (TCE)	UG/M3	**200**	**8.06**	2.99 U	**17.5**	**14**	1.07 U	1.07 U	1.79 U	**2.89**
Tetrachloroethylene (PCE)	UG/M3	**2540**	**11.7**	**48.7**	**629**	**491**	**132**	**95.6**	**25.6**	**116**
Methylene Chloride	UG/M3	12.4 U	**2.99**	4.83 U	1.74 U	1.74 U	1.74 U	1.74 U	2.9 U	1.74 U
Vinyl Chloride	UG/M3	3.66 U	**110**	1.42 U	0.511 U	0.511 U	0.511 U	0.511 U	**2.58**	**2.63**
1,1,2,2-Tetrachloroethane	UG/M3	9.82 U	1.96 U	3.82 U	1.37 U	1.37 U	1.37 U	1.37 U	2.29 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	11 U	2.19 U	4.26 U	1.53 U	1.53 U	1.53 U	1.53 U	2.55 U	1.53 U
1,1,2-Trichloroethane	UG/M3	7.8 U	1.56 U	3.03 U	1.09 U	1.09 U	1.09 U	1.09 U	1.82 U	1.09 U
1,1-Dichloroethane	UG/M3	5.79 U	1.16 U	2.25 U	0.809 U	0.809 U	0.809 U	0.809 U	1.35 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	10.6 U	2.12 U	4.13 U	1.48 U	1.48 U	1.48 U	1.48 U	2.47 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	7.03 U	**1.88**	2.73 U	**2.21**	**3.49**	**1.05**	**1.94**	1.64 U	**3.19**
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	11 U	2.2 U	4.27 U	1.54 U	1.54 U	1.54 U	1.54 U	2.56 U	1.54 U
1,2-Dichlorobenzene	UG/M3	8.6 U	1.72 U	3.34 U	1.2 U	1.2 U	1.2 U	1.2 U	2 U	1.2 U
1,2-Dichloroethane	UG/M3	5.79 U	1.16 U	2.25 U	0.809 U	0.809 U	0.809 U	0.809 U	1.35 U	**0.858**
1,2-Dichloropropane	UG/M3	6.61 U	1.32 U	2.57 U	0.924 U	0.924 U	0.924 U	0.924 U	1.54 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	10 U	2 U	3.89 U	1.4 U	1.4 U	1.4 U	1.4 U	2.33 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	7.03 U	1.41 U	2.73 U	0.983 U	0.983 U	0.983 U	0.983 U	1.64 U	**1.11**
1,3-Butadiene	UG/M3	3.16 U	**1.41**	1.23 U	0.442 U	0.442 U	0.442 U	0.442 U	0.737 U	0.442 U
1,3-Dichlorobenzene	UG/M3	8.6 U	1.72 U	3.34 U	1.2 U	1.2 U	1.2 U	1.2 U	2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	8.6 U	1.72 U	3.34 U	1.2 U	1.2 U	1.2 U	1.2 U	2 U	1.2 U
1,4-Dioxane (P-Dioxane)	UG/M3	5.15 U	**1.23**	2 U	0.721 U	0.721 U	0.721 U	0.721 U	1.2 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	6.68 U	**6.31**	**5.42**	**1.74**	**1.55**	0.934 U	0.934 U	**2.32**	**1.3**
2-Hexanone	UG/M3	5.86 U	**3.77**	2.28 U	0.82 U	**1.87**	0.82 U	0.82 U	1.36 U	0.82 U
4-Ethyltoluene	UG/M3	7.03 U	1.41 U	2.73 U	0.983 U	**1.11**	0.983 U	0.983 U	1.64 U	**1.08**
Acetone	UG/M3	**634**	**753**	**1500**	**451**	**349**	**204**	**210**	**691**	**532**
Allyl Chloride (3-Chloropropene)	UG/M3	4.48 U	0.895 U	1.74 U	0.626 U	0.626 U	0.626 U	0.626 U	1.04 U	0.626 U
Benzene	UG/M3	**6.96**	**9.58**	**2.25**	**2.3**	**1.29**	0.639 U	0.639 U	**2.77**	**2.86**
Benzyl Chloride	UG/M3	7.4 U	1.48 U	2.88 U	1.04 U	1.04 U	1.04 U	1.04 U	1.72 U	1.04 U
Bromodichloromethane	UG/M3	9.58 U	1.92 U	3.72 U	1.34 U	1.34 U	1.34 U	1.34 U	2.23 U	1.34 U
Bromoform	UG/M3	14.8 U	2.96 U	5.75 U	2.07 U	2.07 U	2.07 U	2.07 U	3.44 U	2.07 U
Bromomethane	UG/M3	5.55 U	1.11 U	2.16 U	0.777 U	0.777 U	0.777 U	0.777 U	1.29 U	0.777 U
Carbon Disulfide	UG/M3	4.45 U	**16.8**	1.73 U	0.623 U	0.623 U	0.623 U	0.623 U	**1.73**	**0.841**
Chlorobenzene	UG/M3	6.59 U	1.32 U	2.56 U	0.921 U	0.921 U	0.921 U	0.921 U	1.53 U	0.921 U
Chloroethane	UG/M3	3.77 U	0.755 U	1.47 U	0.528 U	0.528 U	0.528 U	0.528 U	0.879 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		SS-4	SS-5	SS-6	SS-7	SS-7	SS-8	SS-8	SS-9	SS-9
Sample Date:		09/26/2019	09/26/2019	09/26/2019	12/03/2019	03/17/2020	12/03/2019	03/18/2020	12/03/2019	03/18/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	**17**	1.4 U	**5.18**	**2.82**	**2.87**	**1.53**	0.977 U	1.63 U	**1.3**
Chloromethane	UG/M3	2.95 U	**1.18**	1.15 U	0.413 U	0.413 U	0.413 U	0.413 U	0.688 U	**1.03**
Cis-1,3-Dichloropropene	UG/M3	6.49 U	1.3 U	2.52 U	0.908 U	0.908 U	0.908 U	0.908 U	1.51 U	0.908 U
Cyclohexane	UG/M3	4.92 U	**4.41**	**2.72**	**2.35**	**1.67**	0.688 U	**0.881**	**5.78**	**2.04**
Dibromochloromethane	UG/M3	12.2 U	2.44 U	4.74 U	1.7 U	1.7 U	1.7 U	1.7 U	2.84 U	1.7 U
Dichlorodifluoromethane	UG/M3	7.07 U	**2.28**	2.75 U	**2.37**	**2.17**	**2.26**	**2.23**	**2.36**	**2.23**
Ethanol	UG/M3	**114**	**241**	**230**	**599**	**614**	**464**	**524**	**774**	**471**
Ethyl Acetate	UG/M3	12.9 U	2.57 U	5.01 U	1.8 U	**14.2**	1.8 U	1.8 U	3.01 U	1.8 U
Ethylbenzene	UG/M3	6.21 U	**3.45**	**2.94**	**2.69**	**3.14**	**1.38**	**2.05**	**5.34**	**3.21**
Hexachlorobutadiene	UG/M3	15.3 U	3.05 U	5.93 U	2.13 U	2.13 U	2.13 U	2.13 U	3.55 U	2.13 U
Isopropanol	UG/M3	**42.3**	**38.6**	**41.3**	**18.3**	**26.1**	**6.07**	**10.8**	**16**	**13.9**
m,p-Xylene	UG/M3	12.4 U	**11.9**	**10.5**	**12**	**12.6**	**5.99**	**8.17**	**25.7**	**12.2**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	**33**	**52.2**	**50.1**	**17.3**	**23.5**	**4.66**	**6.93**	**12.4**	**14.5**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	14.6 U	**16.4**	**14.5**	2.05 U	**2.64**	2.05 U	2.05 U	**3.52**	**4.34**
N-Heptane	UG/M3	5.86 U	**6.31**	**3.06**	**1.45**	**1.52**	0.82 U	0.82 U	**2.31**	**2.6**
N-Hexane	UG/M3	**6.98**	**16**	**5.57**	**1.72**	**1.28**	0.705 U	0.705 U	**4.44**	**3.91**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	6.21 U	**2.71**	2.42 U	**3.46**	**4.16**	**1.69**	**2.72**	**8.51**	**4.16**
Styrene	UG/M3	6.09 U	**1.46**	2.37 U	**1.66**	**3.34**	0.852 U	**2.78**	**9.32**	**2.83**
Tert-Butyl Alcohol	UG/M3	**12.3**	**11.6**	**15.6**	**12.3**	**15.4**	**4.06**	**11.9**	**12**	**13.6**
Tert-Butyl Methyl Ether	UG/M3	5.16 U	1.03 U	2 U	0.721 U	0.721 U	0.721 U	0.721 U	1.2 U	0.721 U
Tetrahydrofuran	UG/M3	10.5 U	**3.42**	4.1 U	1.47 U	**33.9**	1.47 U	1.47 U	2.46 U	1.47 U
Toluene	UG/M3	**12.4**	**16.1**	**9.46**	**5.54**	**11.5**	**0.829**	**6.14**	**5.58**	**12.1**
Trans-1,2-Dichloroethene	UG/M3	5.67 U	**2.97**	2.2 U	0.793 U	0.793 U	0.793 U	0.793 U	1.32 U	**0.88**
Trans-1,3-Dichloropropene	UG/M3	6.49 U	1.3 U	2.52 U	0.908 U	0.908 U	0.908 U	0.908 U	1.51 U	0.908 U
Trichlorofluoromethane	UG/M3	**15.1**	1.61 U	**6.69**	**15.3**	**5.09**	**1.48**	**1.4**	**3.5**	**3.43**
Vinyl Bromide	UG/M3	6.25 U	1.25 U	2.43 U	0.874 U	0.874 U	0.874 U	0.874 U	1.46 U	0.874 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		SS-10	SS-10	SS-11	SS-11	SS-12	SS-12	SS-16	SS-17	SS-18
Sample Date:		12/03/2019	03/17/2020	12/03/2019	03/17/2020	12/03/2019	03/17/2020	03/17/2020	03/17/2020	03/17/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Carbon Tetrachloride	UG/M3	4.2 U	1.26 U	2.52 U	1.26 U	1.26 U	1.26 U	1.26 U	1.26 U	7.86 U
1,1,1-Trichloroethane (TCA)	UG/M3	3.64 U	1.09 U	2.18 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	6.82 U
Cis-1,2-Dichloroethylene	UG/M3	2.64 U	**1.39**	1.59 U	0.793 U	0.793 U	0.793 U	**28.7**	**0.793**	**120**
1,1-Dichloroethene	UG/M3	2.64 U	0.793 U	1.59 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	4.96 U
Trichloroethylene (TCE)	UG/M3	**8.22**	**10.9**	2.15 U	**2.64**	**1.88**	**1.65**	**131**	1.07 U	**22**
Tetrachloroethylene (PCE)	UG/M3	**189**	**203**	**56.1**	**27.4**	**51.1**	**38.9**	**970**	**9.15**	**82.7**
Methylene Chloride	UG/M3	5.8 U	1.74 U	3.47 U	1.74 U	1.74 U	1.74 U	1.74 U	1.74 U	10.8 U
Vinyl Chloride	UG/M3	1.71 U	0.511 U	1.02 U	0.511 U	0.511 U	0.511 U	**0.78**	0.511 U	**43.7**
1,1,2,2-Tetrachloroethane	UG/M3	4.58 U	1.37 U	2.75 U	1.37 U	1.37 U	1.37 U	1.37 U	1.37 U	8.58 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	5.11 U	1.53 U	3.07 U	1.53 U	1.53 U	1.53 U	1.53 U	1.53 U	9.58 U
1,1,2-Trichloroethane	UG/M3	3.64 U	1.09 U	2.18 U	1.09 U	1.09 U	1.09 U	1.09 U	1.09 U	6.82 U
1,1-Dichloroethane	UG/M3	2.7 U	0.809 U	1.62 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	5.06 U
1,2,4-Trichlorobenzene	UG/M3	4.95 U	1.48 U	2.97 U	1.48 U	1.48 U	1.48 U	1.48 U	1.48 U	9.28 U
1,2,4-Trimethylbenzene	UG/M3	3.28 U	**3.65**	1.97 U	**1.76**	0.983 U	**2.58**	**3.87**	**1.5**	6.15 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	5.13 U	1.54 U	3.07 U	1.54 U	1.54 U	1.54 U	1.54 U	1.54 U	9.61 U
1,2-Dichlorobenzene	UG/M3	4.01 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U
1,2-Dichloroethane	UG/M3	2.7 U	0.809 U	1.62 U	0.809 U	0.809 U	0.809 U	0.809 U	0.809 U	5.06 U
1,2-Dichloropropane	UG/M3	3.08 U	0.924 U	1.85 U	0.924 U	0.924 U	0.924 U	0.924 U	0.924 U	5.78 U
1,2-Dichlorotetrafluoroethane	UG/M3	4.66 U	1.4 U	2.8 U	1.4 U	1.4 U	1.4 U	1.4 U	1.4 U	8.74 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	3.28 U	0.983 U	1.97 U	0.983 U	0.983 U	0.983 U	0.983 U	0.983 U	6.15 U
1,3-Butadiene	UG/M3	1.48 U	0.442 U	0.885 U	0.442 U	0.442 U	0.442 U	0.442 U	0.442 U	2.77 U
1,3-Dichlorobenzene	UG/M3	4.01 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U
1,4-Dichlorobenzene	UG/M3	4.01 U	1.2 U	2.4 U	1.2 U	1.2 U	1.2 U	1.2 U	1.2 U	7.52 U
1,4-Dioxane (P-Dioxane)	UG/M3	2.4 U	**0.89**	1.44 U	0.721 U	0.721 U	0.721 U	**1.08**	0.721 U	4.5 U
2,2,4-Trimethylpentane	UG/M3	3.12 U	0.934 U	1.87 U	**1.18**	0.934 U	0.934 U	**1.08**	**0.976**	5.84 U
2-Hexanone	UG/M3	2.73 U	**0.861**	1.64 U	0.82 U	0.82 U	0.82 U	0.82 U	0.82 U	5.12 U
4-Ethyltoluene	UG/M3	3.28 U	0.983 U	1.97 U	0.983 U	0.983 U	0.983 U	**1.51**	0.983 U	6.15 U
Acetone	UG/M3	**399**	**160**	**337**	**111**	**6.27**	**5.23**	**527**	**575**	**361**
Allyl Chloride (3-Chloropropene)	UG/M3	2.09 U	0.626 U	1.25 U	0.626 U	0.626 U	0.626 U	0.626 U	0.626 U	3.91 U
Benzene	UG/M3	2.13 U	**0.664**	1.28 U	**0.91**	0.639 U	0.639 U	**1.37**	**0.872**	**22.3**
Benzyl Chloride	UG/M3	3.45 U	1.04 U	2.07 U	1.04 U	1.04 U	1.04 U	1.04 U	1.04 U	6.47 U
Bromodichloromethane	UG/M3	4.47 U	1.34 U	2.68 U	1.34 U	1.34 U	1.34 U	1.34 U	1.34 U	8.37 U
Bromoform	UG/M3	6.9 U	2.07 U	4.14 U	2.07 U	2.07 U	2.07 U	2.07 U	2.07 U	12.9 U
Bromomethane	UG/M3	2.59 U	0.777 U	1.55 U	0.777 U	0.777 U	0.777 U	0.777 U	0.777 U	4.85 U
Carbon Disulfide	UG/M3	2.08 U	0.623 U	1.25 U	0.623 U	0.623 U	0.623 U	**1.64**	**0.701**	**71.9**
Chlorobenzene	UG/M3	3.07 U	0.921 U	1.84 U	0.921 U	0.921 U	0.921 U	0.921 U	0.921 U	5.76 U
Chloroethane	UG/M3	1.76 U	0.528 U	1.06 U	0.528 U	0.528 U	0.528 U	0.528 U	0.528 U	3.3 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		SS-10	SS-10	SS-11	SS-11	SS-12	SS-12	SS-16	SS-17	SS-18
Sample Date:		12/03/2019	03/17/2020	12/03/2019	03/17/2020	12/03/2019	03/17/2020	03/17/2020	03/17/2020	03/17/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N	N	N	N
Parameter	Unit									
Chloroform	UG/M3	**4.2**	**3.35**	**3.65**	**2.05**	**5.52**	**2.01**	**6.3**	**1.64**	6.1 U
Chloromethane	UG/M3	1.38 U	**2.11**	0.826 U	**1.13**	0.413 U	**0.632**	0.413 U	**0.973**	2.58 U
Cis-1,3-Dichloropropene	UG/M3	3.03 U	0.908 U	1.82 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	5.67 U
Cyclohexane	UG/M3	2.3 U	**1.36**	**1.56**	**1.21**	**5.34**	0.688 U	**2.18**	**0.83**	**70.9**
Dibromochloromethane	UG/M3	5.68 U	1.7 U	3.41 U	1.7 U	1.7 U	1.7 U	1.7 U	1.7 U	10.6 U
Dichlorodifluoromethane	UG/M3	3.3 U	**2.37**	**2.69**	**2.54**	**2.42**	**2.46**	**2.52**	**2.36**	6.18 U
Ethanol	UG/M3	**1900**	**803**	**816**	**205**	**81.6**	9.42 U	**739**	**337**	58.8 U
Ethyl Acetate	UG/M3	6.02 U	1.8 U	3.6 U	1.8 U	1.8 U	1.8 U	1.8 U	1.8 U	11.2 U
Ethylbenzene	UG/M3	2.9 U	**3.18**	**2.08**	**2.09**	**6.21**	**1.66**	**4.43**	**2.04**	5.43 U
Hexachlorobutadiene	UG/M3	7.11 U	2.13 U	4.27 U	2.13 U	2.13 U	2.13 U	2.13 U	2.13 U	13.3 U
Isopropanol	UG/M3	**14.8**	**11.9**	**8.8**	**7.79**	**3.66**	**6.44**	**61**	**32**	**9.93**
m,p-Xylene	UG/M3	**6.82**	**13.5**	**9.38**	**8.51**	**29.6**	**7.3**	**18.2**	**8.43**	**13.1**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	**8.7**	**5.69**	**15.4**	**7.46**	1.47 U	1.47 U	**15.4**	**16**	**15.9**
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	6.84 U	2.05 U	4.1 U	2.05 U	2.05 U	2.05 U	**2.77**	**2.91**	12.8 U
N-Heptane	UG/M3	2.73 U	**1.18**	1.64 U	**1.11**	0.82 U	0.82 U	**1.67**	**1.1**	**6.64**
N-Hexane	UG/M3	2.35 U	0.705 U	**1.47**	**1.16**	0.705 U	0.705 U	**0.825**	**0.758**	**6.1**
O-Xylene (1,2-Dimethylbenzene)	UG/M3	2.9 U	**4.34**	**2.71**	**2.78**	**9.9**	**2.39**	**5.86**	**2.79**	5.43 U
Styrene	UG/M3	2.84 U	**3.44**	1.7 U	**1.49**	**11.5**	**1.61**	**4.51**	**1.31**	5.32 U
Tert-Butyl Alcohol	UG/M3	**10.2**	**10.6**	**3.82**	**5.03**	**4.73**	**3.46**	**24.4**	**4.61**	**11.5**
Tert-Butyl Methyl Ether	UG/M3	2.4 U	0.721 U	1.44 U	0.721 U	0.721 U	0.721 U	0.721 U	0.721 U	4.51 U
Tetrahydrofuran	UG/M3	4.93 U	1.47 U	2.95 U	**3.83**	1.47 U	1.47 U	1.47 U	1.47 U	9.2 U
Toluene	UG/M3	2.51 U	**10.9**	**2.24**	**8.22**	**3.47**	**6.33**	**17.2**	**6.37**	**38.8**
Trans-1,2-Dichloroethene	UG/M3	2.64 U	0.793 U	1.59 U	0.793 U	0.793 U	0.793 U	0.793 U	0.793 U	**9.67**
Trans-1,3-Dichloropropene	UG/M3	3.03 U	0.908 U	1.82 U	0.908 U	0.908 U	0.908 U	0.908 U	0.908 U	5.67 U
Trichlorofluoromethane	UG/M3	3.75 U	**1.97**	**4.3**	**2.84**	**1.5**	**1.47**	**1.86**	**1.53**	7.02 U
Vinyl Bromide	UG/M3	2.92 U	0.874 U	1.75 U	0.874 U	0.874 U	0.874 U	0.874 U	0.874 U	5.47 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

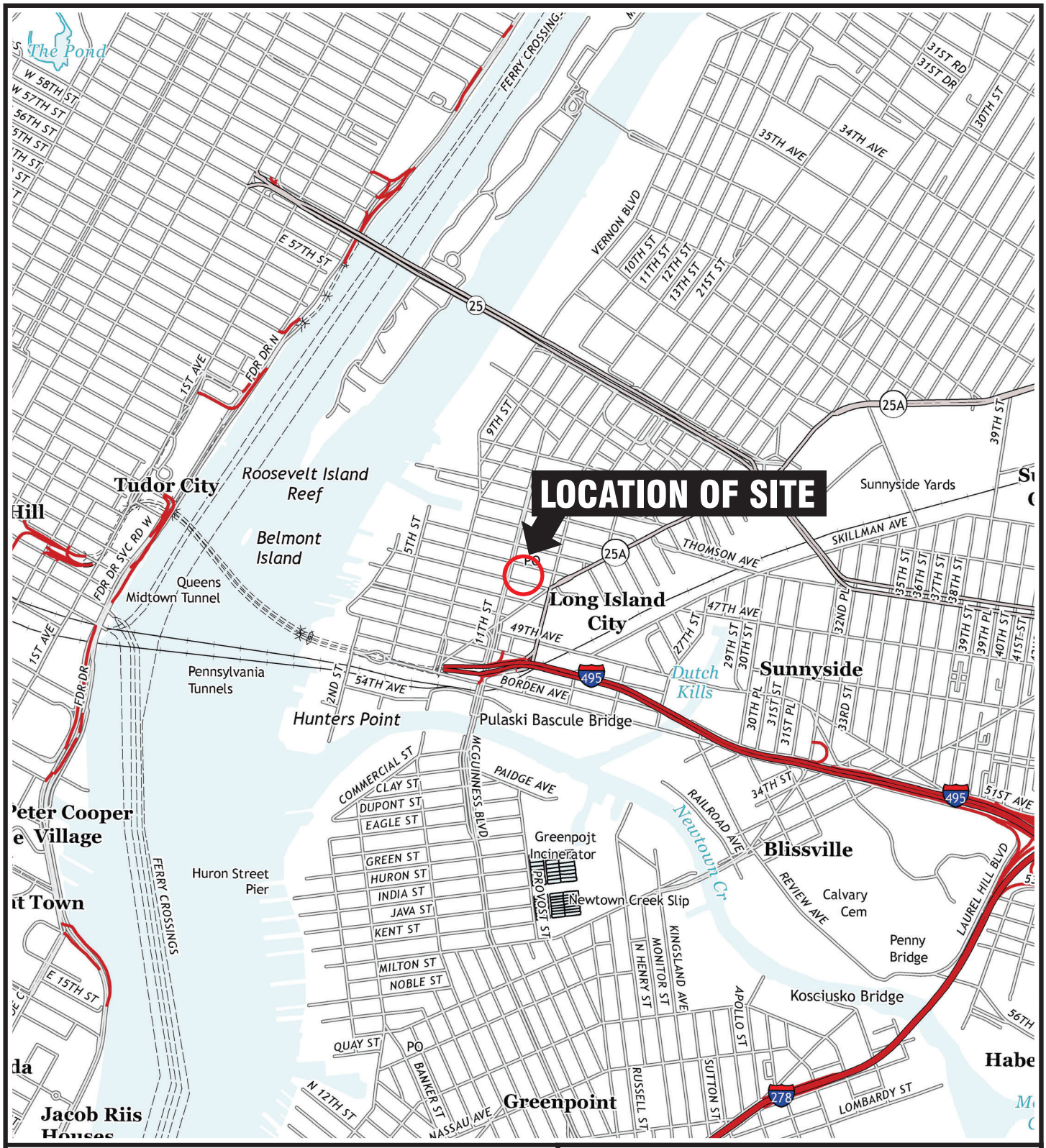
Sample Designation:		SS-19	SS-20	SS-21	SV-13	SV-14	SV-15
Sample Date:		03/18/2020	03/18/2020	03/18/2020	01/16/2020	01/16/2020	01/16/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N
Parameter	Unit						
Carbon Tetrachloride	UG/M3	5.72 U	1.26 U	1.26 U	1.57 U	1.26 U	1.26 U
1,1,1-Trichloroethane (TCA)	UG/M3	4.96 U	1.09 U	1.09 U	1.36 U	1.09 U	1.09 U
Cis-1,2-Dichloroethylene	UG/M3	**75.7**	**47.6**	**2.12**	0.991 U	0.793 U	0.793 U
1,1-Dichloroethene	UG/M3	3.6 U	0.793 U	0.793 U	0.991 U	0.793 U	0.793 U
Trichloroethylene (TCE)	UG/M3	**129**	**10.1**	**3.53**	1.34 U	1.07 U	1.07 U
Tetrachloroethylene (PCE)	UG/M3	**2420**	**98.3**	**66.1**	1.7 U	1.36 U	1.36 U
Methylene Chloride	UG/M3	7.89 U	1.74 U	1.74 U	2.17 U	1.74 U	1.74 U
Vinyl Chloride	UG/M3	2.32 U	**21.4**	0.511 U	**0.69**	0.511 U	0.511 U
1,1,2,2-Tetrachloroethane	UG/M3	6.24 U	1.37 U	1.37 U	1.72 U	1.37 U	1.37 U
1,1,2-Trichloro-1,2,2-Trifluoroethane	UG/M3	6.97 U	1.53 U	1.53 U	1.92 U	1.53 U	1.53 U
1,1,2-Trichloroethane	UG/M3	4.96 U	1.09 U	1.09 U	1.36 U	1.09 U	1.09 U
1,1-Dichloroethane	UG/M3	3.68 U	0.809 U	0.809 U	1.01 U	0.809 U	0.809 U
1,2,4-Trichlorobenzene	UG/M3	6.75 U	1.48 U	1.48 U	1.86 U	1.48 U	1.48 U
1,2,4-Trimethylbenzene	UG/M3	4.47 U	**3.88**	**3.28**	1.23 U	0.983 U	0.983 U
1,2-Dibromoethane (Ethylene Dibromide)	UG/M3	6.99 U	1.54 U	1.54 U	1.92 U	1.54 U	1.54 U
1,2-Dichlorobenzene	UG/M3	5.47 U	1.2 U	1.2 U	1.5 U	1.2 U	1.2 U
1,2-Dichloroethane	UG/M3	3.68 U	0.809 U	0.809 U	1.01 U	0.809 U	0.809 U
1,2-Dichloropropane	UG/M3	4.2 U	0.924 U	0.924 U	1.16 U	0.924 U	0.924 U
1,2-Dichlorotetrafluoroethane	UG/M3	6.35 U	1.4 U	1.4 U	1.75 U	1.4 U	1.4 U
1,3,5-Trimethylbenzene (Mesitylene)	UG/M3	4.47 U	0.983 U	**1.13**	1.23 U	0.983 U	0.983 U
1,3-Butadiene	UG/M3	2.01 U	0.442 U	0.442 U	0.553 U	0.442 U	0.442 U
1,3-Dichlorobenzene	UG/M3	5.47 U	1.2 U	1.2 U	1.5 U	1.2 U	1.2 U
1,4-Dichlorobenzene	UG/M3	5.47 U	1.2 U	1.2 U	**6.55**	**8.36**	**9.38**
1,4-Dioxane (P-Dioxane)	UG/M3	3.28 U	**1.34**	**0.742**	0.901 U	0.721 U	0.721 U
2,2,4-Trimethylpentane	UG/M3	**6.07**	**1.33**	**5.79**	1.17 U	0.934 U	0.934 U
2-Hexanone	UG/M3	3.73 U	**3.09**	**4.22**	1.02 U	0.82 U	0.82 U
4-Ethyltoluene	UG/M3	4.47 U	**0.993**	**1.2**	1.23 U	0.983 U	0.983 U
Acetone	UG/M3	**796**	**874**	**917**	**831**	**504**	**71.7**
Allyl Chloride (3-Chloropropene)	UG/M3	2.85 U	0.626 U	0.626 U	0.783 U	0.626 U	0.626 U
Benzene	UG/M3	2.9 U	**5.53**	**5.65**	**1.05**	**0.93**	0.639 U
Benzyl Chloride	UG/M3	4.71 U	1.04 U	1.04 U	1.29 U	1.04 U	1.04 U
Bromodichloromethane	UG/M3	6.09 U	1.34 U	1.34 U	1.67 U	1.34 U	1.34 U
Bromoform	UG/M3	9.4 U	2.07 U	2.07 U	2.58 U	2.07 U	2.07 U
Bromomethane	UG/M3	3.53 U	0.777 U	0.777 U	0.971 U	0.777 U	0.777 U
Carbon Disulfide	UG/M3	2.83 U	**8.31**	**6.98**	**2.31**	**4.36**	**0.763**
Chlorobenzene	UG/M3	4.19 U	0.921 U	0.921 U	1.15 U	0.921 U	0.921 U
Chloroethane	UG/M3	2.4 U	0.528 U	0.528 U	0.66 U	0.528 U	0.528 U

Table 1. Summary of Volatile Organic Compounds in Soil Vapor, 11-20 46th Road, Long Island City, New York

Sample Designation:		SS-19	SS-20	SS-21	SV-13	SV-14	SV-15
Sample Date:		03/18/2020	03/18/2020	03/18/2020	01/16/2020	01/16/2020	01/16/2020
Normal Sample or Field Duplicate:		N	N	N	N	N	N
Parameter	Unit						
Chloroform	UG/M3	**10**	**1.8**	0.977 U	1.22 U	0.977 U	0.977 U
Chloromethane	UG/M3	1.88 U	0.413 U	**0.591**	0.516 U	0.413 U	0.413 U
Cis-1,3-Dichloropropene	UG/M3	4.13 U	0.908 U	0.908 U	1.13 U	0.908 U	0.908 U
Cyclohexane	UG/M3	**3.15**	**3.28**	**3.89**	0.861 U	**0.699**	0.688 U
Dibromochloromethane	UG/M3	7.74 U	1.7 U	1.7 U	2.13 U	1.7 U	1.7 U
Dichlorodifluoromethane	UG/M3	4.49 U	**2.52**	**2.32**	**2.38**	**2.45**	**2.26**
Ethanol	UG/M3	**443**	**539**	**447**	11.8 U	9.42 U	9.42 U
Ethyl Acetate	UG/M3	8.18 U	1.8 U	1.8 U	2.25 U	1.8 U	1.8 U
Ethylbenzene	UG/M3	3.95 U	**5.13**	**5.08**	**1.48**	**1.64**	**1.71**
Hexachlorobutadiene	UG/M3	9.7 U	2.13 U	2.13 U	2.67 U	2.13 U	2.13 U
Isopropanol	UG/M3	**47.2**	**75.5**	**47.9**	**3.39**	**1.72**	1.23 U
m,p-Xylene	UG/M3	**11**	**15.6**	**16.8**	**3.75**	**4.11**	**4.25**
Methyl Ethyl Ketone (2-Butanone)	UG/M3	**22.7**	**25.1**	**37.8**	**13.2**	**5.9**	1.47 U
Methyl Isobutyl Ketone (4-Methyl-2-Pentanone)	UG/M3	9.3 U	**4.59**	**5.45**	2.56 U	2.05 U	2.05 U
N-Heptane	UG/M3	**4.1**	**6.64**	**8.77**	**12.4**	**10.2**	**6.23**
N-Hexane	UG/M3	**5.85**	**8.92**	**10.5**	**4.58**	**1.28**	0.705 U
O-Xylene (1,2-Dimethylbenzene)	UG/M3	3.95 U	**5**	**5.91**	**1.35**	**1.5**	**1.55**
Styrene	UG/M3	3.87 U	**5.15**	**4.94**	1.06 U	0.852 U	0.852 U
Tert-Butyl Alcohol	UG/M3	**13.3**	**19.4**	**12.7**	**4.82**	**5.88**	1.52 U
Tert-Butyl Methyl Ether	UG/M3	3.28 U	0.721 U	0.721 U	0.901 U	0.721 U	0.721 U
Tetrahydrofuran	UG/M3	6.69 U	1.47 U	1.47 U	1.84 U	1.47 U	1.47 U
Toluene	UG/M3	**17.8**	**24.1**	**18.2**	**196**	**234**	**203**
Trans-1,2-Dichloroethene	UG/M3	3.6 U	**6.11**	0.793 U	0.991 U	0.793 U	0.793 U
Trans-1,3-Dichloropropene	UG/M3	4.13 U	0.908 U	0.908 U	1.13 U	0.908 U	0.908 U
Trichlorofluoromethane	UG/M3	5.11 U	**3.01**	**9.89**	1.4 U	**1.27**	**1.14**
Vinyl Bromide	UG/M3	3.97 U	0.874 U	0.874 U	1.09 U	0.874 U	0.874 U

FIGURES

1. Site Location Map
2. Composite Cover System Layout
3. Cellar Indoor and Ambient Air Sample Locations
4. First Floor Indoor Air Sample Location
5. Second Floor Indoor Air Sample Location
6. Third Floor Indoor Air Sample Location



QUADRANGLE LOCATION

SOURCE:
USGS; 2013, Central Park, NY-NJ
7.5 Minute Topographic Quadrangle

N

0 2000'

Title:

SITE LOCATION MAP

11-20 46TH ROAD SITE
BCP SITE NO. C241242

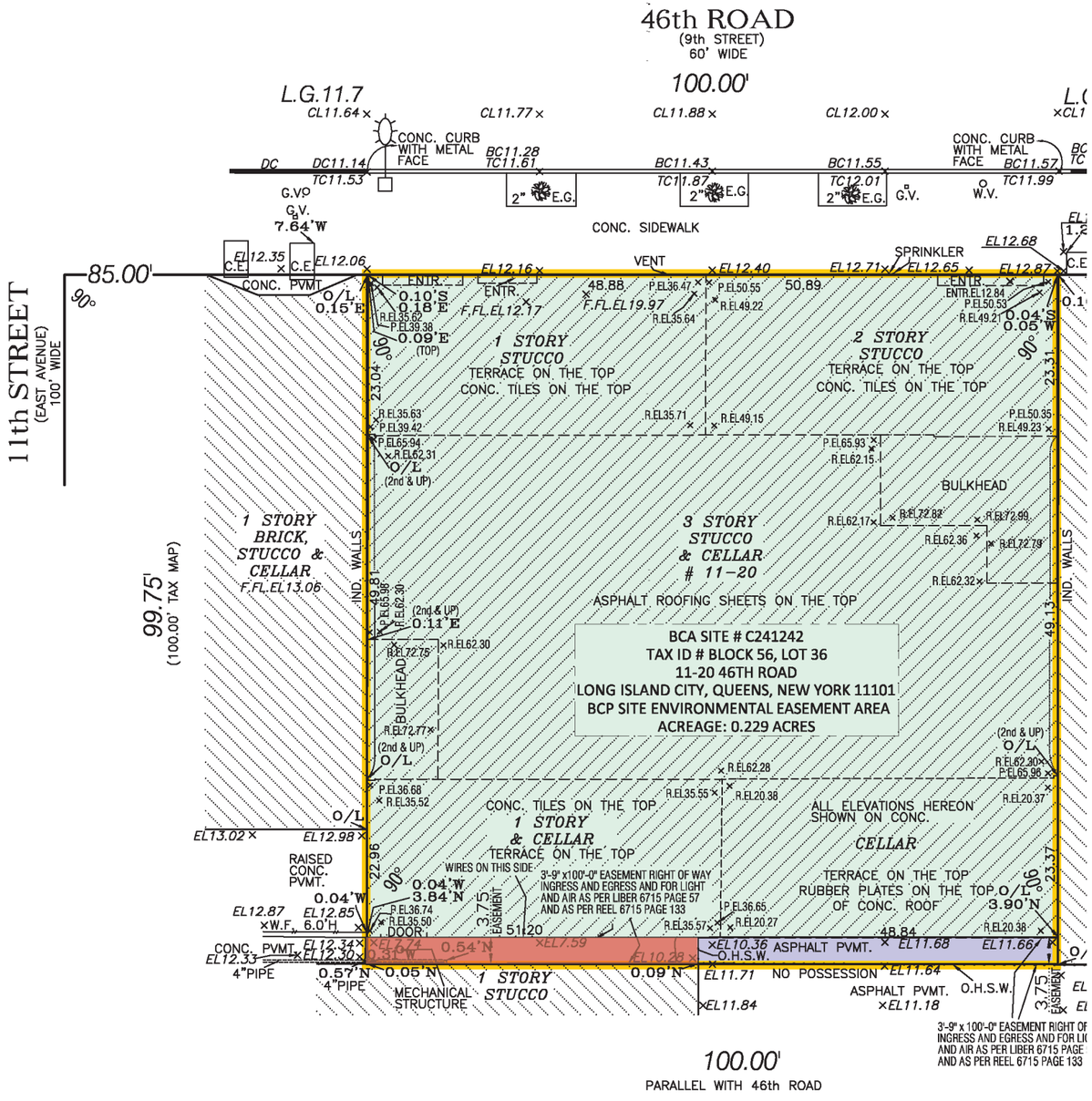
Prepared for:

11-20 46TH ROAD OWNER LLC

ROUX

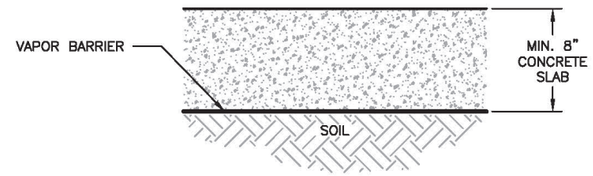
Compiled by: R.H.	Date: 17MAY24	FIGURE
Prepared by: G.M.	Scale AS SHOWN	1
Project Mgr: R.L.	Project: 3371.0001Y000	
File: 3371.0001Y145.01.CDR		

\3371Y\0001Y\141\3371.0001Y145.01.CDR

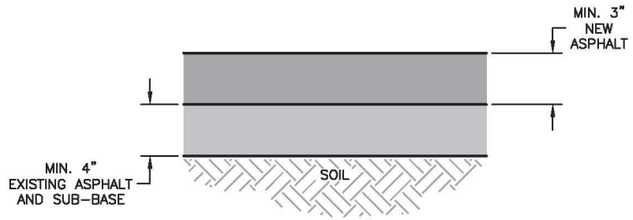


LEGEND

- SITE BOUNDARY
- MINIMUM 8-INCH THICK CONCRETE CELLAR SLAB
- ASPHALT PAVEMENT
- MINIMUM 24-INCH THICK GRAVEL



1 TYPICAL SLAB DETAIL
SCALE: NOT TO SCALE



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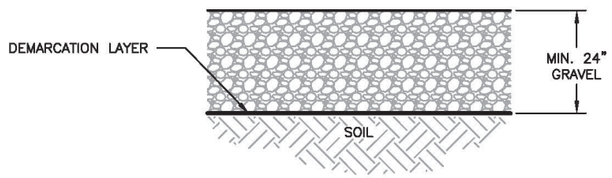
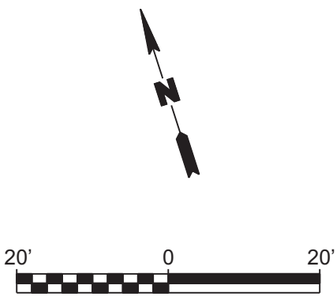
SCALE: NOT TO SCALE



3 TYPICAL GRAVEL DETAIL
SCALE: NOT TO SCALE



Title:

COMPOSITE COVER SYSTEM LAYOUT

11-20 46TH ROAD SITE
BCP SITE NO. C241242

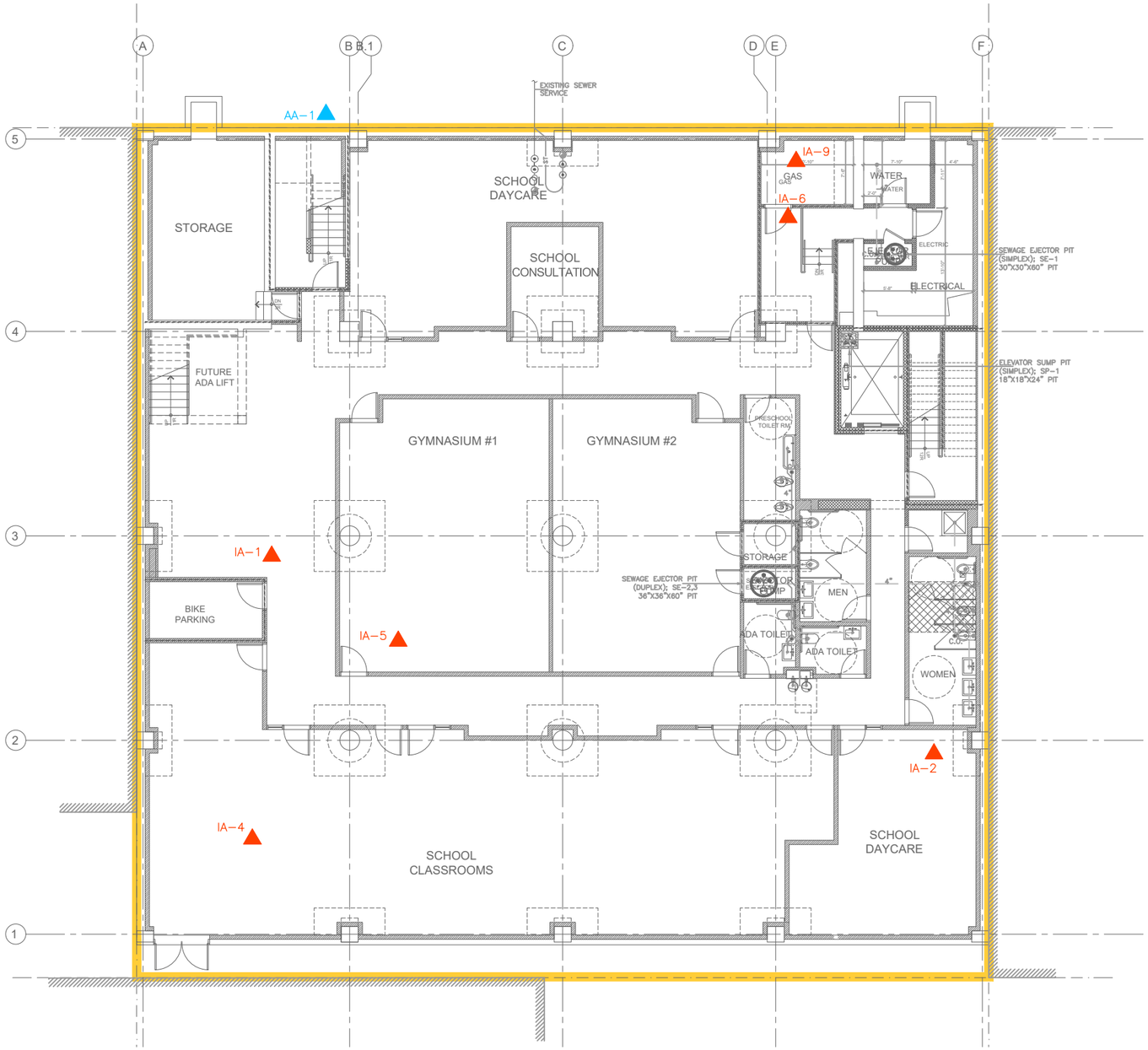
Prepared for:

11-20 46TH ROAD OWNER, LLC

ROUX

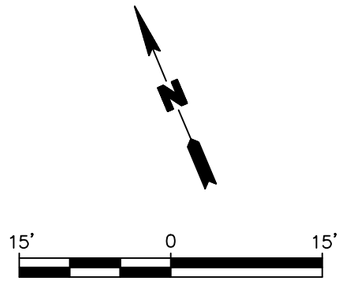
Compiled by: R.H.	Date: 17MAY24	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	2
Project Mgr: R.H.	Project: 3371.0001Y000	
File: 3371.0001Y145.02.CDR		

\3371Y0001Y141\3371.0001Y145.02.CDR



LEGEND

- SITE BOUNDARY
- IA–2 ▲ APPROXIMATE INDOOR AIR LOCATION AND DESIGNATION
- AA–1 ▲ APPROXIMATE AMBIENT AIR SAMPLE LOCATION AND DESIGNATION



Title:

CELLAR INDOOR AND AMBIENT AIR SAMPLE LOCATIONS

11-20 46TH ROAD SITE
BCP SITE NO. C241242

Prepared for:

11-20 46TH ROAD OWNER LLC

ROUX

Compiled by: J.R.	Date: 3/6/2024	FIGURE
Prepared by: B.H.C.	Scale: AS SHOWN	3
Project Mgr: J.R.	Project: 3371.0001Y000	
File: 3371.0001Y145.03.DWG		

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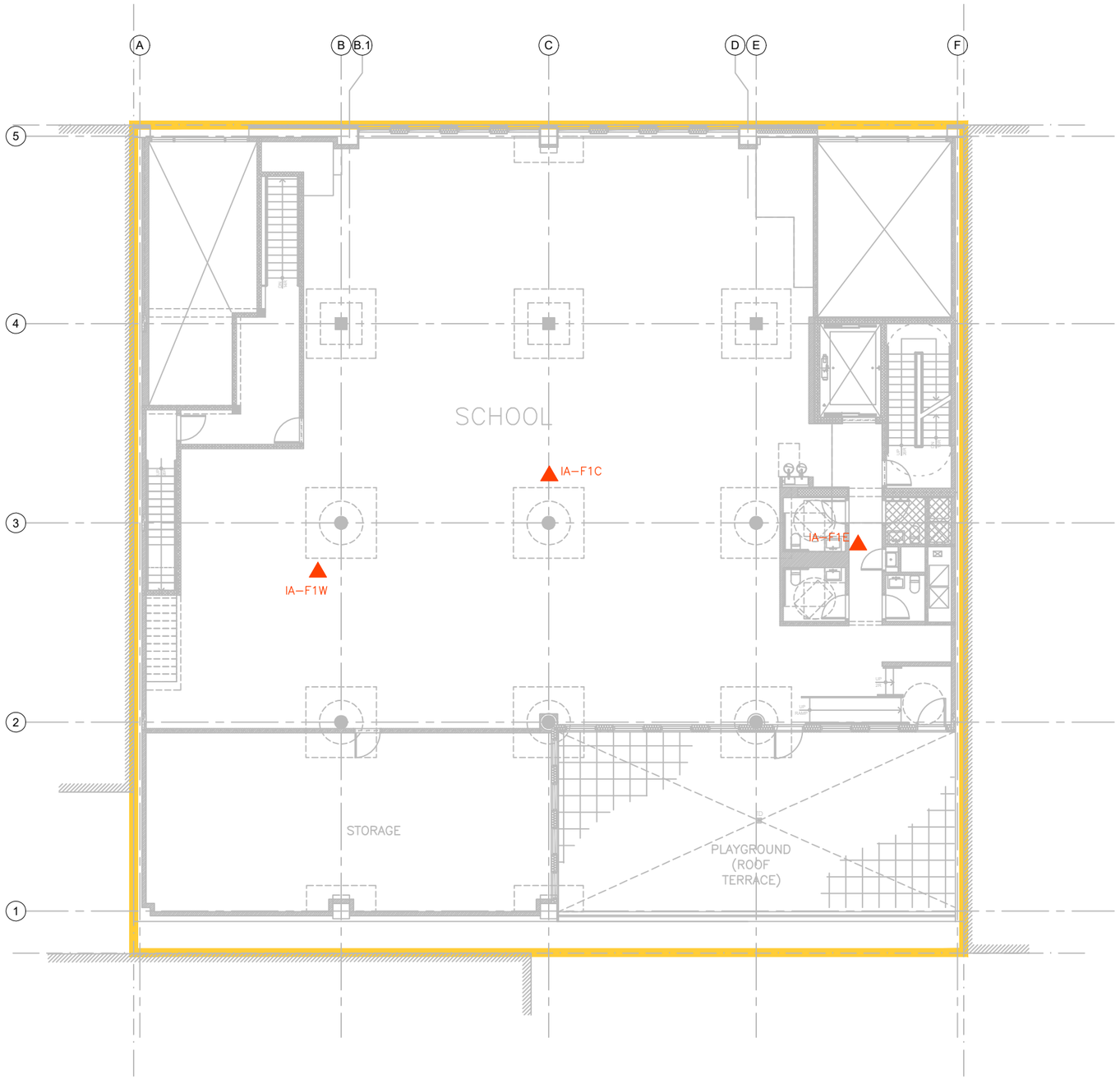

LEGEND

SITE BOUNDARY

IA–F1E APPROXIMATE INDOOR AIR LOCATION AND DESIGNATION

N

15’ 0 15’

Title:

FIRST FLOOR INDOOR AIR SAMPLE LOCATIONS

11-20 46TH ROAD SITE
BCP SITE NO. C241242

Prepared for:

11-20 46TH ROAD OWNER LLC

ROUX

Compiled by: J.R.	Date: 5/17/2024	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	4
Project Mgr: J.R.	Project: 3371.0001Y000	
File: 3371.0001Y145.03.DWG		

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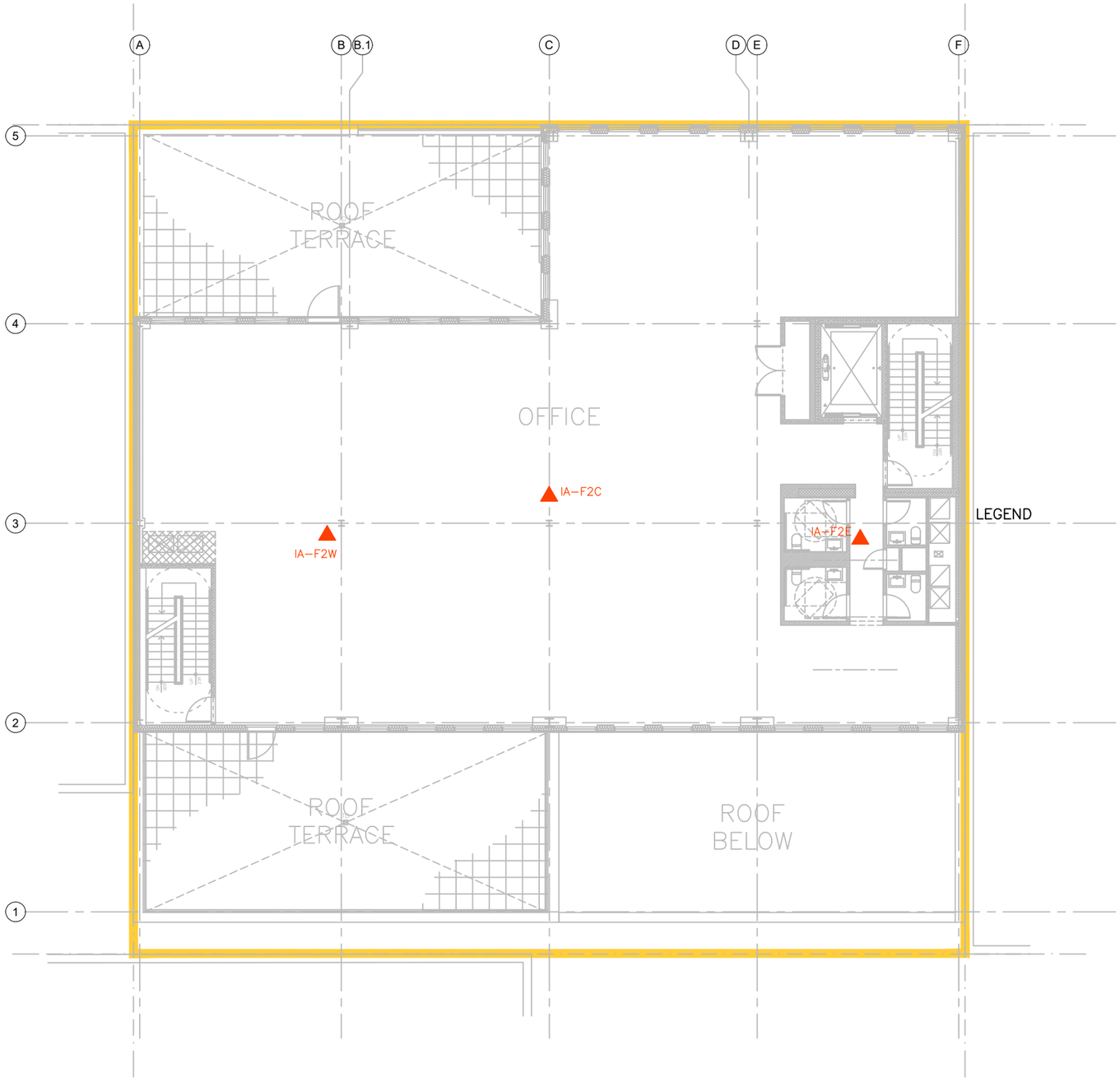

LEGEND

SITE BOUNDARY

IA–F2E APPROXIMATE INDOOR AIR LOCATION AND DESIGNATION

15’ 0 15’

Title:

SECOND FLOOR INDOOR AIR SAMPLE LOCATIONS

11-20 46TH ROAD SITE
BCP SITE NO. C241242

Prepared for:

11-20 46TH ROAD OWNER LLC

ROUX

Compiled by: J.R.	Date: 5/17/2024	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	5
Project Mgr: J.R.	Project: 3371.0001Y000	
File: 3371.0001Y145.03.DWG		

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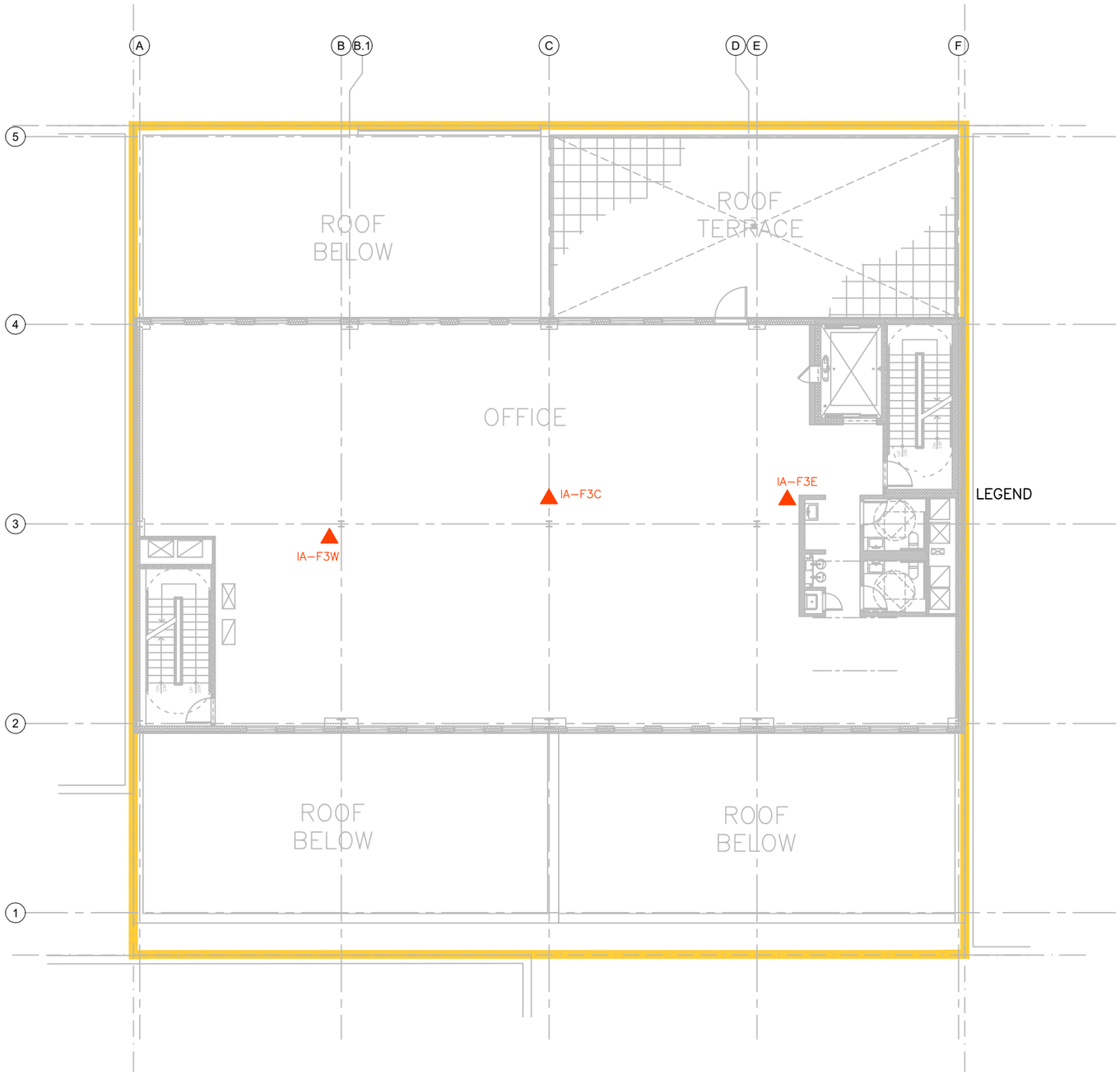

LEGEND

SITE BOUNDARY

IA–F2E APPROXIMATE INDOOR AIR LOCATION AND DESIGNATION

15’ 0 15’

Title:

THIRD FLOOR INDOOR AIR SAMPLE LOCATIONS

11-20 46TH ROAD SITE
BCP SITE NO. C241242

Prepared for:

11-20 46TH ROAD OWNER LLC

ROUX

Compiled by: J.R.	Date: 5/17/2024	FIGURE
Prepared by: G.M.	Scale: AS SHOWN	6
Project Mgr: J.R.	Project: 3371.0001Y000	
File: 3371.0001Y145.03.DWG		

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APPENDICES

A. NYSDEC Site Management Plan Approval
B. IC/EC Certification Form
C. Site Inspection Checklists
D. Laboratory Analytical Results
E. Sub-Slab Depressurization System Operations and Maintenance Forms

APPENDIX A

NYSDEC Site Management Plan Approval

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 | F: (718)482-6358
www.dec.ny.gov

December 22, 2021

David Schwarz
11-20 46th Road Owner LLC
c/o SD Asset Management, LLC
10 East 34th Street, Mezzanine
New York, NY 10016

Re: 11-20 46th Road Site, Kings County
Brownfield Cleanup Program No. C241242
Site Management Plan

Dear Mr. Schwarz:

The New York State Department of Environmental Conservation, in consultation with New York State Department of Health, has completed its review of the Site Management Plan (SMP) dated December 2021, which was prepared by Roux Environmental Engineering and Geology, D.P.C. on behalf of 11-20 46th Road Owner LLC (the Participant). The SMP was submitted to NYSDEC under the Brownfield Cleanup Program (BCP) for project number C241242.The SMP is deemed to be appropriate and is hereby approved for implementation.

The SMP provides a detailed description of all procedures required to manage residual contamination at the site following the completion of remedial actions. Engineering Controls and Institutional Controls (EC/ICs) have been incorporated into the remedy to provide proper management of residual contamination into the future to ensure protection of public health and the environment. The SMP contains a comprehensive plan that provides detailed maintenance and monitoring discussions of the ECs/ICs developed for the site, as well as provisions for the annual certification of these controls.

The approved SMP must be placed by the Participant in all publicly accessible repositories for the project within 5 business days. A certification that this document has been placed in project repositories, and that the repositories are complete with all project documents, must be submitted to the NYSDEC project manager.

If you have any questions, please feel free to contact me at (718) 482-4065 or christopher.allan@dec.ny.gov.

Sincerely,

Christopher Allan
Project Manager

Ec: J. O'Connell, M. Yau, J. Simpson – NYSDEC
S. McLaughlin, G. Rys – NYSDOH
D. Kaiser, R. Kovacs, R. Henke – Roux
L. Shaw – Knauf Shaw LLP

APPENDIX B

IC/EC Certification Form

Enclosure 2
NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Site Management Periodic Review Report Notice
Institutional and Engineering Controls Certification Form

Site Details **Box 1**

Site No. C241242

Site Name 11-20 46th Road Site

Site Address: 11-20 46th Road Zip Code: 11101
City/Town: Long Island City
County: Queens
Site Acreage: 0.229

Reporting Period: May 01, 2023 to May 01, 2024

	YES	NO
1. Is the information above correct?	X	☐
If NO, include handwritten above or on a separate sheet.		
2. Has some or all of the site property been sold, subdivided, merged, or undergone a tax map amendment during this Reporting Period?	☐	X
3. Has there been any change of use at the site during this Reporting Period (see 6NYCRR 375-1.11(d))?	☐	X
4. Have any federal, state, and/or local permits (e.g., building, discharge) been issued for or at the property during this Reporting Period?	☐	X
If you answered YES to questions 2 thru 4, include documentation or evidence that documentation has been previously submitted with this certification form.		
5. Is the site currently undergoing development?	☐	X

Box 2

	YES	NO
6. Is the current site use consistent with the use(s) listed below? Restricted-Residential, Commercial, and Industrial	X	☐
7. Are all ICs in place and functioning as designed?	X	☐

IF THE ANSWER TO EITHER QUESTION 6 OR 7 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

Signature of Owner, Remedial Party or Designated Representative Date

Box 2A

	YES	NO
8. Has any new information revealed that assumptions made in the Qualitative Exposure Assessment regarding offsite contamination are no longer valid?	☐	X

If you answered YES to question 8, include documentation or evidence that documentation has been previously submitted with this certification form.

9. Are the assumptions in the Qualitative Exposure Assessment still valid? (The Qualitative Exposure Assessment must be certified every five years)	X	☐

If you answered NO to question 9, the Periodic Review Report must include an updated Qualitative Exposure Assessment based on the new assumptions.

SITE NO. C241242 **Box 3**

Description of Institutional Controls

Parcel	Owner	Institutional Control
4-56-36	11-20 46th Road Owner LLC	Ground Water Use Restriction Soil Management Plan Landuse Restriction Site Management Plan O&M Plan IC/EC Plan

• The property may be used for: restricted residential, commercial, and/or industrial use;
• The recorded Environmental Easement must be complied with;
• All ECs must be operated and maintained as specified in this SMP;
SMP Template: July 2021
34
• 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 NYSDOH or the NYC Health 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.
• Groundwater and other environmental or public health monitoring must be performed as defined in this SMP.
• Data and information pertinent to site management must be reported at the frequency and in a manner as defined in this SMP.
• Require the Remedial Party (RP) or Site owner to complete and submit to the NYSDEC a periodic certification of institutional controls (ICs) and ECs in accordance with Part 375-1.8(h)(3).
• All future activities that will disturb remaining contaminated material must be conducted in accordance with this SMP.
• Monitoring to assess the performance and effectiveness of the remedy must be performed as defined in this SMP.
• Operation, maintenance, monitoring, inspection, and reporting of any mechanical or physical component of the remedy shall be performed as defined in this 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.

Box 4

Description of Engineering Controls

Parcel	Engineering Control
4-56-36	Vapor Mitigation Cover System

• Cover System
The Site Cover System is a permanent control and the quality and integrity of this system will be inspected at defined, regular intervals in accordance with this SMP in perpetuity.

• Vapor Mitigation: Sub-Slab Depressurization System (SSDS)
The active SSDS will not be discontinued unless prior written approval is granted by the NYSDEC and the NYSDOH project managers. If monitoring data indicates that the SSD system may no longer be required, a proposal to discontinue the SSD system will be submitted by the remedial party to the NYSDEC and NYSDOH project managers.

Box 5

Periodic Review Report (PRR) Certification Statements

1. I certify by checking "YES" below that:

   a) the Periodic Review report and all attachments were prepared under the direction of, and reviewed by, the party making the Engineering Control certification;

   b) to the best of my 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 the information presented is accurate and compete.

YES	NO
X	☐

2. For each Engineering control listed in Box 4, I certify by checking "YES" below that all of the following statements are true:

   (a) The Engineering Control(s) employed at this site is unchanged since the date that the Control was put in-place, or was last approved by the Department;

   (b) nothing has occurred that would impair the ability of such Control, to protect public health and the environment;

   (c) access to the site will continue to be provided to the Department, to evaluate the remedy, including access to evaluate the continued maintenance of this Control;

   (d) nothing has occurred that would constitute a violation or failure to comply with the Site Management Plan for this Control; and

   (e) if a financial assurance mechanism is required by the oversight document for the site, the mechanism remains valid and sufficient for its intended purpose established in the document.

YES	NO
X	☐

IF THE ANSWER TO QUESTION 2 IS NO, sign and date below and DO NOT COMPLETE THE REST OF THIS FORM. Otherwise continue.

A Corrective Measures Work Plan must be submitted along with this form to address these issues.

_____ _____

Signature of Owner, Remedial Party or Designated Representative — Date

IC CERTIFICATIONS
SITE NO. C241242

Box 6

SITE OWNER OR DESIGNATED REPRESENTATIVE SIGNATURE

I certify that all information and statements in Boxes 1,2, and 3 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 _____ at _____,
print name print business address

am certifying as _____(Owner or Remedial Party)

for the Site named in the Site Details Section of this form.

_____ _____
Signature of Owner, Remedial Party, or Designated Representative Date
Rendering Certification

EC CERTIFICATIONS

Box 7

Professional Engineer Signature

I certify that all information in Boxes 4 and 5 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 _____ at _____,
print name print business address

am certifying as a Professional Engineer for the _____
(Owner or Remedial Party)

_____	_____	_____
Signature of Professional Engineer, for the Owner or Remedial Party, Rendering Certification	Stamp (Required for PE)	Date

APPENDIX C

Site Inspection Checklists

Site Inspection Checklist, 11-20 46th Road Site, Long Island City, Queens, NY (BCP Site No. C241242)

Date: August 16, 2023

Completed By: Luisa Fernandez

			Status			
Description			**Ok**	**Action Req.**	**N/A**	**Actions Taken / Comments**
Site Cover System						
	1	Inspect site cover system for cracks and leaks.	**X**			
Institutional Controls						
	1	Confirm that the site usage is in compliance with the institutional controls.	**X**			
Site Records						
	1	Inspect site records and confirm that they are up to date (e.g., Site Inspection Checklists, sampling logs, etc.)	**X**			
	2	Inspect integrity of Cover System	**X**			

Site Inspection Checklist, 11-20 46th Road Site, Long Island City, Queens, NY (BCP Site No. C241242)

Date: February 20, 2024

Completed By: Luisa Fernandez

			Status			
Description			**Ok**	**Action Req.**	**N/A**	**Actions Taken / Comments**
Site Cover System						
	1	Inspect site cover system for cracks and leaks.	**X**			
Institutional Controls						
	1	Confirm that the site usage is in compliance with the institutional controls.	**X**			
Site Records						
	1	Inspect site records and confirm that they are up to date (e.g., Site Inspection Checklists, sampling logs, etc.)	**X**			
	2	Inspect integrity of Cover System	**X**			

APPENDIX D

Laboratory Analytical Results

ALPHA ANALYTICAL

World Class Chemistry

www.alphalab.com

Alpha Analytical

Laboratory Code: 11148

SDG Number: L2347540

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

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Project Name: 11-20 46TH ROAD
Project Number: 3371.0001Y000

Lab Number: L2347540
Report Date: 08/23/23

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2347540-01	IA-1	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:53	08/16/23
L2347540-02	IA-2	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:37	08/16/23
L2347540-03	IA-4	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:59	08/16/23
L2347540-04	IA-5	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 12:10	08/16/23
L2347540-05	IA-6	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:30	08/16/23
L2347540-06	IA-9	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:32	08/16/23
L2347540-07	IA-F1C	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:42	08/16/23
L2347540-08	IA-F2C	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:47	08/16/23
L2347540-09	IA-F3C	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:46	08/16/23
L2347540-10	AA-1	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:56	08/16/23
L2347540-11	DUP_081623	AIR	11-20 46TH ROAD, LONG ISLAND CITY, NY	08/16/23 15:39	08/16/23

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on August 16, 2023. The canister certification results are provided as an addendum.

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: 08/23/23

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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

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

Alpha Job Number : L2347540

Received : 16-AUG-2023
Reviewer : Shawn Thompson

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 3371.0001Y000
Project Name : 11-20 46TH ROAD

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

Cooler	Seal/Seal#	Preservation	Temperature(°C)	Additional Information
NA	Present/Intact/N/A			

Condition Information

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

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 23 2023, 05:04 pm

Login Number: L2347540
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 3371.0001Y000
Received: 16AUG23 Due Date: 23AUG23

Sample #	Client ID	Mat	PR	Collected
L2347540-01	IA-1	10	S0	16AUG23 15:53
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 08/23/23				
ASP-B,CAN-RENT,E&I-FEE,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-02	IA-2	10	S0	16AUG23 15:37
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-03	IA-4	10	S0	16AUG23 15:59
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-04	IA-5	10	S0	16AUG23 12:10
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-05	IA-6	10	S0	16AUG23 15:30
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-06	IA-9	10	S0	16AUG23 15:32
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-07	IA-F1C	10	S0	16AUG23 15:42
TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Aug 23 2023, 05:04 pm

Login Number: L2347540

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 3371.0001Y000

Received: 16AUG23 Due Date: 23AUG23

Sample #	Client ID		Mat	PR	Collected
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-08	IA-F2C		10	S0	16AUG23 15:47
	TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-09	IA-F3C		10	S0	16AUG23 15:46
	TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-10	AA-1		10	S0	16AUG23 15:56
	TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2347540-11	DUP_081623		10	S0	16AUG23 15:39
	TO15 SIM for 7 NYS DMCs Package Due Date: 08/23/23				
	CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				

Logged By: Shawn Thompson

AIR ANALYSIS

PAGE ____ OF ____

ALPHA ANALYTICAL

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 8-17-23

ALPHA Job #: L2347540

Client Information

Client: Roux Env. Eng & Geo D.P.C
Address: 209 Shafter Street
Islandia, NY 11749
Phone: (631) 232-2600
Fax: — — —
Email: rhenke@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 11-20 46th Road
Project Location: 11-20 46th Road, Long Island City, NY
Project #: 3371.00014000
Project Manager: Rachel Henke
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: CAT-B
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: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs	Fixed Gases	Sulfides & Mercaptans by TO-15	☐	Sample Comments (i.e. PID)
47540-01	IA-1	8/16/23	07:59	15:53	-30.41	-7.84	IA	LF	2.7	119	0765	X	X					
02	IA-2	8/16/23	08:09	15:37	-29.95	-9.25	IA	LF	2.7	2010	0764	X	X					
03	IA-4	8/16/23	08:02	15:59	-30.52	-8.06	IA	LF	2.7	3220	0491	X	X					
04	IA-5	8/16/23	08:05	12:10	-29.74	-4.00	IA	LF	2.7	2614	01480	X	X					
05	IA-6	8/16/23	08:17	15:30	-29.56	-7.70	IA	LF	2.7	2210	02198	X	X					
06	IA-9	8/16/23	08:15	15:32	-29.92	-9.03	IA	LF	2.7	3427	02044	X	X					
07	IA-F1C	8/16/23	08:28	15:42	-30.36	-7.30	IA	LF	2.7	2825	01129	X	X					
08	IA-F2C	8/16/23	08:24	15:47	-29.65	-8.58	IA	LF	2.7	3238	02219	X	X					
09	IA-F3C	8/16/23	08:20	15:46	-29.91	-8.06	IA	LF	2.7	2312	01294	X	X					
10	AA-1	8/16/23	08:35	15:56	-29.60	-8.69	AA	LF	2.7	2552	0819	X	X					

*SAMPLE MATRIX CODES

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

Container Type									
	Summa	Summa							

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:
Luisa Fernandez	8/16/23 16:05	Anthony Green	8/17/23 16:05
Anthony Green	8/16/23 [illegible]		AUG 16 2023 2025
	8/17/23 0045		8/17/23 0045

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

AIR ANALYSIS

PAGE ____ OF ____

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 8-17-23

ALPHA Job #: L2347540

Client Information

Client: Roux Env. Eng & Geo D.P.C.
Address: 209 Shafter Street
Islandia, NY 11749
Phone: (631) 232-2600
Fax: — — —
Email: rhenke@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 11-20 46th Road
Project Location: 11-20 46th Road, Long Island City, NY
Project #: 3371.0001Y000
Project Manager: Rachel Henke
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: CAT - B
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: ☐

ANALYSIS

All Columns Below Must Be Filled Out

ALPHA Lab ID (Lab Use Only)	Sample ID	COLLECTION End Date	Start Time	End Time	Initial Vacuum	Final Vacuum	Sample Matrix*	Sampler's Initials	Can Size	I D Can	I D - Flow Controller	TO-15	TO-15 SIM	APH Subtract Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
47540-11	DUP_081623	8/16/23	08:11	15:39	-30.05	-9.29	IA	LF	2.7	349	0622	X	X				

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

Container Type: Summa, Tedlar

Relinquished By:	Date/Time	Received By:	Date/Time:
Luisa Fernandez	8/16/23 16:04		8/16/23 16:05
Anthony Green	8/17/23 0245	Anthony Green	8/17/23 0245
	8/17/23 0510		8/17/23 0510

AUG 16 2023

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.

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

Supporting Documentation

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2347540-01	IA-1	0765	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.0	12
L2347540-01	IA-1	119	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-7.3	-	-	-	-
L2347540-02	IA-2	0764	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.2	7
L2347540-02	IA-2	2010	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.5	-9.0	-	-	-	-
L2347540-03	IA-4	0491	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.2	7
L2347540-03	IA-4	3220	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.3	-7.7	-	-	-	-
L2347540-04	IA-5	01480	Flow 3	08/16/23	433170		-	-	-	Pass	4.5	3.6	22
L2347540-04	IA-5	2614	2.7L Can	08/16/23	433170	L2346193-01	Pass	-28.8	-3.1	-	-	-	-
L2347540-05	IA-6	02198	Flow 5	08/16/23	433170		-	-	-	Pass	4.5	4.5	0
L2347540-05	IA-6	2210	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.3	-8.4	-	-	-	-
L2347540-06	IA-9	02044	Flow 5	08/16/23	433170		-	-	-	Pass	4.5	4.1	9
L2347540-06	IA-9	3427	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-9.6	-	-	-	-
L2347540-07	IA-F1C	01129	Flow 5	08/16/23	433170		-	-	-	Pass	4.5	4.1	9
L2347540-07	IA-F1C	2825	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-7.0	-	-	-	-
L2347540-08	IA-F2C	02219	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.0	12

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
L2347540-08	IA-F2C	3238	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-8.9	-	-	-	-
L2347540-09	IA-F3C	01294	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.3	5
L2347540-09	IA-F3C	2312	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-8.2	-	-	-	-
L2347540-10	AA-1	0819	Flow 5	08/16/23	433170		-	-	-	Pass	4.5	3.9	14
L2347540-10	AA-1	2552	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-9.4	-	-	-	-
L2347540-11	DUP_081623	01622	Flow 4	08/16/23	433170		-	-	-	Pass	4.5	4.0	12
L2347540-11	DUP_081623	349	2.7L Can	08/16/23	433170	L2346193-01	Pass	-29.4	-9.3	-	-	-	-

Air Canister Certification Results

Lab ID: L2346193-01
Client ID: CAN 352 SHELF 1
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 08/11/23 18:56
Analyst: RAY

Date Collected: 08/09/23 18:00
Date Received: 08/10/23
Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2346193-01 Date Collected: 08/09/23 18:00
Client ID: CAN 352 SHELF 1 Date Received: 08/10/23
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2346193-01 Date Collected: 08/09/23 18:00
Client ID: CAN 352 SHELF 1 Date Received: 08/10/23
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2346193-01
Client ID: CAN 352 SHELF 1
Sample Location:

Date Collected: 08/09/23 18:00
Date Received: 08/10/23
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	1.05	--		1
1,2,3-Trichlorobenzene	ND	0.200	--	ND	1.48	--		1
Hexachlorobutadiene	ND	0.200	--	ND	2.13	--		1

	Results	Qualifier	Units	RDL	Dilution Factor
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Air Canister Certification Results

Lab ID: L2346193-01 Date Collected: 08/09/23 18:00
Client ID: CAN 352 SHELF 1 Date Received: 08/10/23
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	97		60-140
Bromochloromethane	98		60-140
chlorobenzene-d5	95		60-140

Air Canister Certification Results

Lab ID: L2346193-01
Client ID: CAN 352 SHELF 1
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 08/11/23 18:56
Analyst: RAY

Date Collected: 08/09/23 18:00
Date Received: 08/10/23
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: L2346193-01 Date Collected: 08/09/23 18:00
Client ID: CAN 352 SHELF 1 Date Received: 08/10/23
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2346193-01 Date Collected: 08/09/23 18:00
Client ID: CAN 352 SHELF 1 Date Received: 08/10/23
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	99		60-140
chlorobenzene-d5	98		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2347540-05	**Analysis Date**	: 08/22/23 20:29
Lab File ID	: R1638964	**DUP File ID**	: r1638965
Dup Sample ID	: WG1818792-5	**DUP Analysis Date**	: 08/22/23 21:09

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.444	0.446	0	25
Chloromethane	0.450	0.442	2	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	105	99.2	6	25
Vinyl bromide	ND	ND	NC	25
Acetone	7.22	7.10	2	25
Trichlorofluoromethane	ND	ND	NC	25
Isopropanol	2.96	2.99	1	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	ND	ND	NC	25
Ethyl Acetate	0.543	0.522	4	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	0.563	0.564	0	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	1.92	1.91	1	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2347540-05	**Analysis Date**	: 08/22/23 20:29
Lab File ID	: R1638964	**DUP File ID**	: r1638965
Dup Sample ID	: WG1818792-5	**DUP Analysis Date**	: 08/22/23 21:09

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	ND	ND	NC	25
Cyclohexane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.716	0.713	0	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2347540-05	**Analysis Date**	: 08/22/23 20:29
Lab File ID	: R1638964	**DUP File ID**	: r1638965
Dup Sample ID	: WG1818792-5	**DUP Analysis Date**	: 08/22/23 21:09

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

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1818792-3	**Analysis Date** : 08/22/23 12:37	**File ID** : r1638955
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**
Propylene	10	9.80	98				-	70-130	-
Dichlorodifluoromethane	10	9.14	91				-	70-130	-
Chloromethane	10	8.01	80				-	70-130	-
Freon-114	10	10.2	102				-	70-130	-
Vinyl chloride	10	10.3	103				-	70-130	-
1,3-Butadiene	10	9.40	94				-	70-130	-
Bromomethane	10	9.92	99				-	70-130	-
Chloroethane	10	10.0	100				-	70-130	-
Ethanol	50	48.1	96				-	40-160	-
Vinyl bromide	10	7.97	80				-	70-130	-
Acetone	50	45.0	90				-	40-160	-
Trichlorofluoromethane	10	9.91	99				-	70-130	-
Isopropanol	25	20.0	80				-	40-160	-
1,1-Dichloroethene	10	9.35	94				-	70-130	-
Tertiary butyl Alcohol	10	9.19	92				-	70-130	-
Methylene chloride	10	9.82	98				-	70-130	-
3-Chloropropene	10	8.77	88				-	70-130	-
Carbon disulfide	10	9.65	96				-	70-130	-
Freon-113	10	9.27	93				-	70-130	-
trans-1,2-Dichloroethene	10	8.95	90				-	70-130	-
1,1-Dichloroethane	10	8.93	89				-	70-130	-
Methyl tert butyl ether	10	8.09	81				-	70-130	-
Vinyl acetate	10	7.68	77				-	70-130	-
2-Butanone	10	7.99	80				-	70-130	-
cis-1,2-Dichloroethene	10	9.55	96				-	70-130	-
Ethyl Acetate	10	10.6	106				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1818792-3	**Analysis Date** : 08/22/23 12:37	**File ID** : r1638955
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**
Chloroform	10	9.66	97				-	70-130	-
Tetrahydrofuran	10	7.82	78				-	70-130	-
1,2-Dichloroethane	10	7.86	79				-	70-130	-
n-Hexane	10	10.5	105				-	70-130	-
1,1,1-Trichloroethane	10	8.04	80				-	70-130	-
Benzene	10	9.94	99				-	70-130	-
Carbon tetrachloride	10	9.16	92				-	70-130	-
Cyclohexane	10	10.8	108				-	70-130	-
1,2-Dichloropropane	10	9.31	93				-	70-130	-
Bromodichloromethane	10	10.3	103				-	70-130	-
1,4-Dioxane	10	9.66	97				-	70-130	-
Trichloroethene	10	9.58	96				-	70-130	-
2,2,4-Trimethylpentane	10	10.6	106				-	70-130	-
Heptane	10	8.26	83				-	70-130	-
cis-1,3-Dichloropropene	10	9.84	98				-	70-130	-
4-Methyl-2-pentanone	10	8.49	85				-	70-130	-
trans-1,3-Dichloropropene	10	9.32	93				-	70-130	-
1,1,2-Trichloroethane	10	9.60	96				-	70-130	-
Toluene	10	8.73	87				-	70-130	-
2-Hexanone	10	8.02	80				-	70-130	-
Dibromochloromethane	10	10.1	101				-	70-130	-
1,2-Dibromoethane	10	9.71	97				-	70-130	-
Tetrachloroethene	10	8.98	90				-	70-130	-
Chlorobenzene	10	9.64	96				-	70-130	-
Ethylbenzene	10	8.90	89				-	70-130	-
p/m-Xylene	20	18.1	90				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1818792-3	**Analysis Date** : 08/22/23 12:37	**File ID** : r1638955
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**
Bromoform	10	10.6	106				-	70-130	-
Styrene	10	9.76	98				-	70-130	-
1,1,2,2-Tetrachloroethane	10	10.5	105				-	70-130	-
o-Xylene	10	9.34	93				-	70-130	-
4-Ethyltoluene	10	9.27	93				-	70-130	-
1,3,5-Trimethylbenzene	10	9.43	94				-	70-130	-
1,2,4-Trimethylbenzene	10	9.63	96				-	70-130	-
Benzyl chloride	10	10.0	100				-	70-130	-
1,3-Dichlorobenzene	10	9.90	99				-	70-130	-
1,4-Dichlorobenzene	10	9.37	94				-	70-130	-
1,2-Dichlorobenzene	10	9.46	95				-	70-130	-
1,2,4-Trichlorobenzene	10	8.78	88				-	70-130	-
Hexachlorobutadiene	10	8.22	82				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1818792-4	**Lab File ID**	: r1638956
Instrument ID	: AIRLAB16		
Matrix	: AIR	**Analysis Date**	: 08/22/23 14:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1818792-3LCS	WG1818792-3	08/22/23 12:37
AA-1	L2347540-10	08/22/23 17:10
IA-1	L2347540-01	08/22/23 17:50
IA-2	L2347540-02	08/22/23 18:30
IA-4	L2347540-03	08/22/23 19:09
IA-5	L2347540-04	08/22/23 19:49
IA-6	L2347540-05	08/22/23 20:29
IA-6DUP	WG1818792-5	08/22/23 21:09
IA-9	L2347540-06	08/22/23 21:49
IA-F1C	L2347540-07	08/22/23 22:29
IA-F2C	L2347540-08	08/22/23 23:09
IA-F3C	L2347540-09	08/22/23 23:49
DUP_081623	L2347540-11	08/23/23 00:29

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 07/25/23 06:41
Tune Standard	: WG1807898-1	**Tune File ID**	: r1638434_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.5
75	30.0 - 66.0% of mass 95	33
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	71.2
175	4.0 - 9.0% of mass 174	5.2 (7.3)1
176	93.0 - 101% of mass 174	66.7 (93.7)1
177	5.0 - 9.0% of mass 176	4.6 (6.9)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	R1722210-1	R1638438	07/25/23 09:10
STD0.5	R1722210-2	R1638439	07/25/23 09:50
STD1.0	R1722210-3	R1638440	07/25/23 10:31
STD5.0	R1722210-4	R1638441	07/25/23 11:10
STD010	R1722210-5	R1638442	07/25/23 11:52
STD020	R1722210-6	R1638443	07/25/23 12:30
STD050	R1722210-7	R1638444	07/25/23 13:09
STD100	R1722210-8	R1638445	07/25/23 13:51
ICV Quant	R1722210-9	R1638448	07/26/23 00:26

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 08/22/23 09:50
Tune Standard	: WG1818792-1	**Tune File ID**	: r1638951_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	13.8
75	30.0 - 66.0% of mass 95	33.1
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.3 (.5)1
174	50.0 - 120.0% of mass 95	64.7
175	4.0 - 9.0% of mass 174	4.5 (7)1
176	93.0 - 101% of mass 174	61.8 (95.5)1
177	5.0 - 9.0% of mass 176	4 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1818792-2CCAL	WG1818792-2	R1638952	08/22/23 10:32
WG1818792-3LCS	WG1818792-3	R1638955	08/22/23 12:37
WG1818792-4BLANK	WG1818792-4	R1638956	08/22/23 14:09
AA-1	L2347540-10	R1638959	08/22/23 17:10
IA-1	L2347540-01	R1638960	08/22/23 17:50
IA-2	L2347540-02	R1638961	08/22/23 18:30
IA-4	L2347540-03	R1638962	08/22/23 19:09
IA-5	L2347540-04	R1638963	08/22/23 19:49
IA-6	L2347540-05	R1638964	08/22/23 20:29
WG1818792-5DUP	WG1818792-5	R1638965	08/22/23 21:09
IA-9	L2347540-06	R1638966	08/22/23 21:49
IA-F1C	L2347540-07	R1638967	08/22/23 22:29
IA-F2C	L2347540-08	R1638968	08/22/23 23:09
IA-F3C	L2347540-09	R1638969	08/22/23 23:49
DUP_081623	L2347540-11	R1638970	08/23/23 00:29

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 08/22/23 10:32:00
Sample No	: WG1818792-2	**Lab File ID**	: R1638952

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1818792-2	214255	9.10	667571	11.31	82563	15.98
Upper Limit	299957	9.43	934599	11.64	115588	16.31
Lower Limit	128553	8.77	400543	10.98	49538	15.65
Sample ID						
WG1818792-3 LCS	206816	9.10	659497	11.31	81111	15.98
WG1818792-4 BLANK	200743	9.10	639226	11.31	78976	15.99
AA-1	209394	9.10	635680	11.31	80229	15.99
IA-1	213125	9.10	645120	11.31	81746	15.99
IA-2	209978	9.10	625823	11.31	79861	15.99
IA-4	210624	9.10	629300	11.31	80108	15.99
IA-5	214620	9.10	642822	11.31	80571	15.99
IA-6	207904	9.10	617329	11.31	78903	15.99
IA-6 DUP	206933	9.10	614216	11.31	78004	15.99
IA-9	208930	9.10	617537	11.31	78457	15.98
IA-F1C	210158	9.10	627456	11.31	79997	15.98
IA-F2C	209760	9.10	612241	11.31	78164	15.98
IA-F3C	210916	9.10	617177	11.31	78045	15.98
DUP_081623	213291	9.10	629449	11.31	80159	15.98

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

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

* Values outside of QC limits

Date Created: 01/06/23
Created By: Jason Hebert
File: PM13669-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

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

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

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

Volatile Organics in Air: TO-15 (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAI06	5	1.74	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25			
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

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

Volatile Organics in Air: TO-15 (AIR)

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-01	**Date Collected**	: 08/16/23 15:53
Client ID	: IA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638960	**Instrument ID**	: AIRLAB16
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	0.455	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.502	0.200	--	1.04	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	113	5.00	--	213	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	7.73	1.00	--	18.4	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	3.32	0.500	--	8.16	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.604	0.500	--	2.18	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-01	Date Collected	: 08/16/23 15:53
Client ID	: IA-1	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/22/23 17:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638960	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.852	0.200	--	3.21	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-01	**Date Collected**	: 08/16/23 15:53
Client ID	: IA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638960	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-02	**Date Collected**	: 08/16/23 15:37
Client ID	: IA-2	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 18:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638961	**Instrument ID**	: AIRLAB16
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	0.463	0.200	--	2.29	0.989	--	
74-87-3	Chloromethane	0.491	0.200	--	1.01	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	68.8	5.00	--	130	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.19	1.00	--	19.5	2.38	--	
75-69-4	Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--	
67-63-0	Isopropanol	3.04	0.500	--	7.47	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.662	0.500	--	2.39	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-02	**Date Collected**	: 08/16/23 15:37
Client ID	: IA-2	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 18:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638961	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	1.86	0.200	--	6.56	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.868	0.200	--	3.27	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-02	**Date Collected**	: 08/16/23 15:37
Client ID	: IA-2	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 18:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638961	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-03	**Date Collected**	: 08/16/23 15:59
Client ID	: IA-4	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638962	**Instrument ID**	: AIRLAB16
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	0.470	0.200	--	2.32	0.989	--	
74-87-3	Chloromethane	0.447	0.200	--	0.923	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	63.6	5.00	--	120	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.00	1.00	--	19.0	2.38	--	
75-69-4	Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--	
67-63-0	Isopropanol	2.83	0.500	--	6.96	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	0.518	0.500	--	1.53	1.47	--	
141-78-6	Ethyl Acetate	0.619	0.500	--	2.23	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-03	**Date Collected**	: 08/16/23 15:59
Client ID	: IA-4	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638962	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	1.53	0.200	--	5.39	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.884	0.200	--	3.33	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-03	**Date Collected**	: 08/16/23 15:59
Client ID	: IA-4	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638962	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-04	**Date Collected**	: 08/16/23 12:10
Client ID	: IA-5	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638963	**Instrument ID**	: AIRLAB16
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	0.457	0.200	--	2.26	0.989	--	
74-87-3	Chloromethane	0.442	0.200	--	0.913	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	77.9	5.00	--	147	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	8.58	1.00	--	20.4	2.38	--	
75-69-4	Trichlorofluoromethane	0.208	0.200	--	1.17	1.12	--	
67-63-0	Isopropanol	3.41	0.500	--	8.38	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.596	0.500	--	2.07	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.650	0.500	--	2.34	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-04	Date Collected	: 08/16/23 12:10
Client ID	: IA-5	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/22/23 19:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638963	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	3.20	0.200	--	11.3	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.895	0.200	--	3.37	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-04	**Date Collected**	: 08/16/23 12:10
Client ID	: IA-5	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638963	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-05	**Date Collected**	: 08/16/23 15:30
Client ID	: IA-6	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 20:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638964	**Instrument ID**	: AIRLAB16
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	0.450	0.200	--	0.929	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	105	5.00	--	198	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	7.22	1.00	--	17.2	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	2.96	0.500	--	7.28	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.543	0.500	--	1.96	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.563	0.500	--	1.66	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-05	Date Collected	: 08/16/23 15:30
Client ID	: IA-6	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/22/23 20:29
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638964	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	1.92	0.200	--	6.77	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.716	0.200	--	2.70	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-05	**Date Collected**	: 08/16/23 15:30
Client ID	: IA-6	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 20:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638964	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-06	**Date Collected**	: 08/16/23 15:32
Client ID	: IA-9	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 21:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638966	**Instrument ID**	: AIRLAB16
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	0.456	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.451	0.200	--	0.931	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	73.3	5.00	--	138	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	6.89	1.00	--	16.4	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	2.57	0.500	--	6.32	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.527	0.500	--	1.90	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-06	Date Collected	: 08/16/23 15:32
Client ID	: IA-9	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/22/23 21:49
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638966	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	0.210	0.200	--	0.740	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.928	0.200	--	3.50	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-06	**Date Collected**	: 08/16/23 15:32
Client ID	: IA-9	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 21:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638966	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-07	**Date Collected**	: 08/16/23 15:42
Client ID	: IA-F1C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 22:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638967	**Instrument ID**	: AIRLAB16
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	0.461	0.200	--	2.28	0.989	--	
74-87-3	Chloromethane	0.461	0.200	--	0.952	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	50.4	5.00	--	95.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	7.23	1.00	--	17.2	2.38	--	
75-69-4	Trichlorofluoromethane	0.211	0.200	--	1.19	1.12	--	
67-63-0	Isopropanol	2.36	0.500	--	5.80	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-07	**Date Collected**	: 08/16/23 15:42
Client ID	: IA-F1C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 22:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638967	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.860	0.200	--	3.24	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-07	**Date Collected**	: 08/16/23 15:42
Client ID	: IA-F1C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 22:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638967	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-08	**Date Collected**	: 08/16/23 15:47
Client ID	: IA-F2C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638968	**Instrument ID**	: AIRLAB16
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	0.476	0.200	--	2.35	0.989	--	
74-87-3	Chloromethane	0.437	0.200	--	0.902	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	9.24	5.00	--	17.4	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.36	1.00	--	12.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.201	0.200	--	1.13	1.12	--	
67-63-0	Isopropanol	0.974	0.500	--	2.39	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-08	**Date Collected**	: 08/16/23 15:47
Client ID	: IA-F2C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638968	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.842	0.200	--	3.17	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-08	**Date Collected**	: 08/16/23 15:47
Client ID	: IA-F2C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638968	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-09	**Date Collected**	: 08/16/23 15:46
Client ID	: IA-F3C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638969	**Instrument ID**	: AIRLAB16
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	0.455	0.200	--	2.25	0.989	--	
74-87-3	Chloromethane	0.433	0.200	--	0.894	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	7.38	5.00	--	13.9	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.93	1.00	--	14.1	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	0.916	0.500	--	2.25	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-09	**Date Collected**	: 08/16/23 15:46
Client ID	: IA-F3C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638969	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.744	0.200	--	2.80	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-09	**Date Collected**	: 08/16/23 15:46
Client ID	: IA-F3C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638969	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-10	**Date Collected**	: 08/16/23 15:56
Client ID	: AA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638959	**Instrument ID**	: AIRLAB16
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	0.466	0.200	--	2.30	0.989	--	
74-87-3	Chloromethane	0.444	0.200	--	0.917	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	8.07	5.00	--	15.2	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	5.77	1.00	--	13.7	2.38	--	
75-69-4	Trichlorofluoromethane	0.207	0.200	--	1.16	1.12	--	
67-63-0	Isopropanol	0.937	0.500	--	2.30	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-10	Date Collected	: 08/16/23 15:56
Client ID	: AA-1	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/22/23 17:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638959	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	1.57	0.200	--	5.53	0.705	--	
71-43-2	Benzene	0.218	0.200	--	0.696	0.639	--	
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	0.227	0.200	--	1.06	0.934	--	
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.965	0.200	--	3.64	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	0.448	0.400	--	1.95	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	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-10	**Date Collected**	: 08/16/23 15:56
Client ID	: AA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638959	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-11	Date Collected	: 08/16/23 15:39
Client ID	: DUP_081623	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/23/23 00:29
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638970	Instrument ID	: AIRLAB16
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	0.447	0.200	--	2.21	0.989	--	
74-87-3	Chloromethane	0.485	0.200	--	1.00	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	63.7	5.00	--	120	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	9.71	1.00	--	23.1	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	2.71	0.500	--	6.66	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	1.04	0.500	--	3.07	1.47	--	
141-78-6	Ethyl Acetate	0.596	0.500	--	2.15	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2347540-11	Date Collected	: 08/16/23 15:39
Client ID	: DUP_081623	Date Received	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	Date Analyzed	: 08/23/23 00:29
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638970	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-54-3	n-Hexane	2.13	0.200	--	7.51	0.705	--	
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	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
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.868	0.200	--	3.27	0.754	--	
591-78-6	2-Hexanone	2.11	0.200	--	8.65	0.820	--	
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-11	**Date Collected**	: 08/16/23 15:39
Client ID	: DUP_081623	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/23/23 00:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638970	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
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
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	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1818792-4	Date Collected	: NA
Client ID	: WG1818792-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/22/23 14:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638956	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1818792-4	Date Collected	: NA
Client ID	: WG1818792-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 08/22/23 14:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638956	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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
71-55-6	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1818792-4	**Date Collected**	: NA
Client ID	: WG1818792-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 08/22/23 14:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638956	**Instrument ID**	: AIRLAB16
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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
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	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1818792-5	Date Collected	: 08/16/23 15:30
Client ID	: IA-6DUP	Date Received	: 08/16/23
Sample Location	:	Date Analyzed	: 08/22/23 21:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638965	Instrument ID	: AIRLAB16
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	0.446	0.200	--	2.21	0.989	--	
74-87-3	Chloromethane	0.442	0.200	--	0.913	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	99.2	5.00	--	187	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	7.10	1.00	--	16.9	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	2.99	0.500	--	7.35	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	0.522	0.500	--	1.88	1.80	--	
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	0.564	0.500	--	1.66	1.47	--	
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	1.91	0.200	--	6.73	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	: L2347540
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1818792-5	Date Collected	: 08/16/23 15:30
Client ID	: IA-6DUP	Date Received	: 08/16/23
Sample Location	:	Date Analyzed	: 08/22/23 21:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: APR
Lab File ID	: R1638965	Instrument ID	: AIRLAB16
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.713	0.200	--	2.69	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1818792-5	**Date Collected**	: 08/16/23 15:30
Client ID	: IA-6DUP	**Date Received**	: 08/16/23
Sample Location	:	**Date Analyzed**	: 08/22/23 21:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: APR
Lab File ID	: R1638965	**Instrument ID**	: AIRLAB16
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
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638959.D
Acq On : 22 Aug 2023 5:10 PM
Operator : AIRLAB16:APR
Sample : L2347540-10,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:14 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	209394	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		97.73%	
43) 1,4-difluorobenzene	11.313	114	635680	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		95.22%	
67) chlorobenzene-D5	15.992	54	80229	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		97.17%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.036	85	7230	0.466	ppbV	100
6) chloromethane	4.198	50	3885	0.444	ppbV	100
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.164	31	44546	8.066	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.680	43	64343M6	5.774	ppbV	
21) trichlorofluoromethane	5.873	101	2264	0.207	ppbV	90
22) isopropyl alcohol	5.953	45	15091	0.937	ppbV	100
27) tertiary butyl alcohol	6.624		0	N.D.		
28) methylene chloride	6.708	49	4290	0.359	ppbV	98
29) 3-chloropropene	6.756		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	7.008	101	1110	0.057	ppbV	92
32) trans-1,2-dichloroethene	7.750		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.417	43	7836	0.297	ppbV #	92
38) Ethyl Acetate	9.192	61	924	0.242	ppbV	80
39) chloroform	9.258		0	N.D.		
40) Tetrahydrofuran	9.708	42	2355	0.141	ppbV #	89
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	26282	1.572	ppbV #	1
50) benzene	10.900	78	7503	0.218	ppbV	95
53) cyclohexane	11.220	56	1310	0.074	ppbV	89
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638959.D
Acq On : 22 Aug 2023 5:10 PM
Operator : AIRLAB16:APR
Sample : L2347540-10,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:14 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

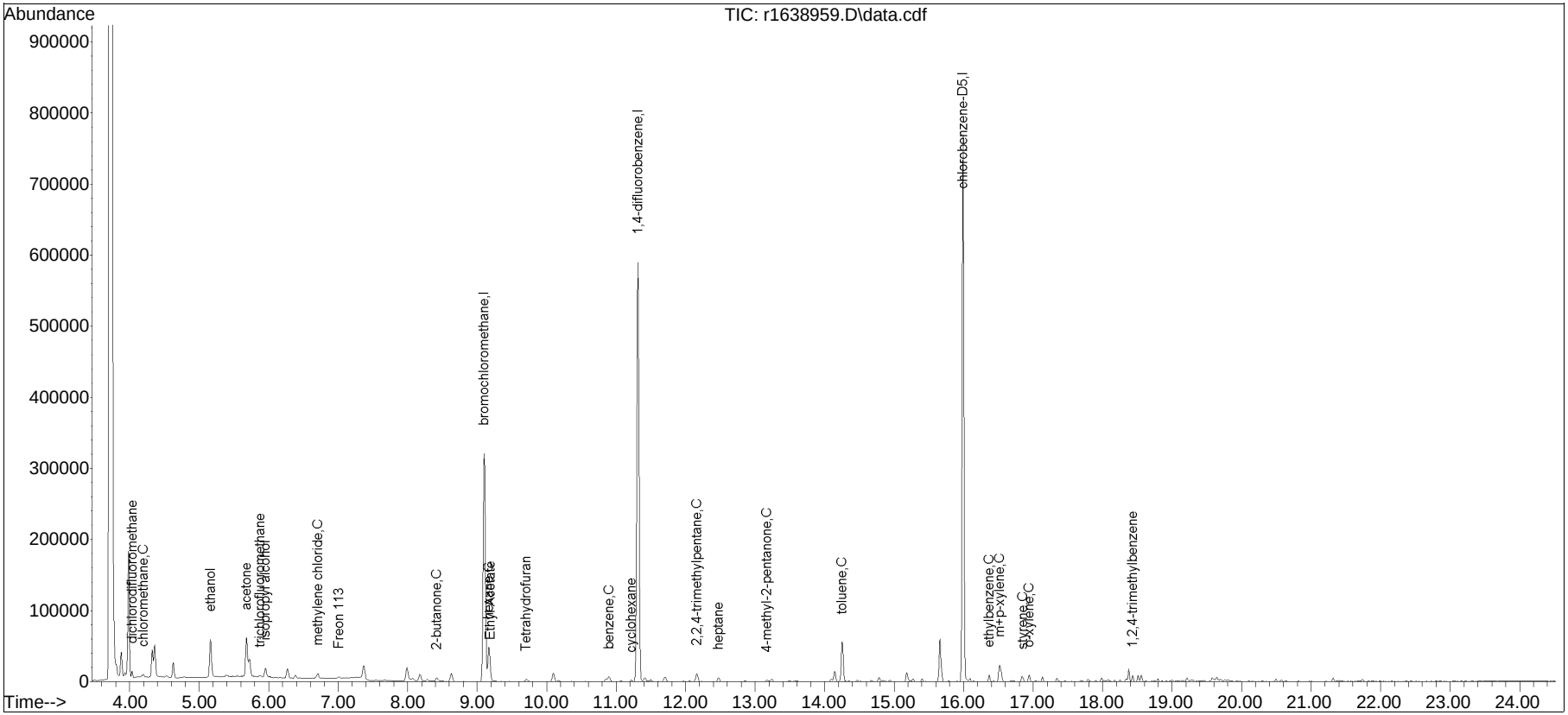
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.160	57	12437	0.227	ppbV		95
62)	heptane	12.473	43	2718	0.105	ppbV	#	80
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.167	43	1927	0.065	ppbV	#	84
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.250	91	43601	0.965	ppbV		100
72)	2-hexanone	14.517		0	N.D.			
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	16.042		0	N.D.			
81)	ethylbenzene	16.367	91	6889	0.121	ppbV		93
83)	m+p-xylene	16.517	91	19984	0.448	ppbV		97
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.850	104	2185	0.059	ppbV		93
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	16.942	91	6079	0.137	ppbV		90
96)	4-ethyl toluene	18.017		0	N.D.			
97)	1,3,5-trimethylbenzene	18.083		0	N.D.			
99)	1,2,4-trimethylbenzene	18.433	105	4584	0.089	ppbV	#	57
101)	Benzyl Chloride	18.425		0	N.D.			
102)	1,3-dichlorobenzene	18.625		0	N.D.			
103)	1,4-dichlorobenzene	18.625		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	20.458		0	N.D.			
119)	hexachlorobutadiene	0.000		0	N.D.			

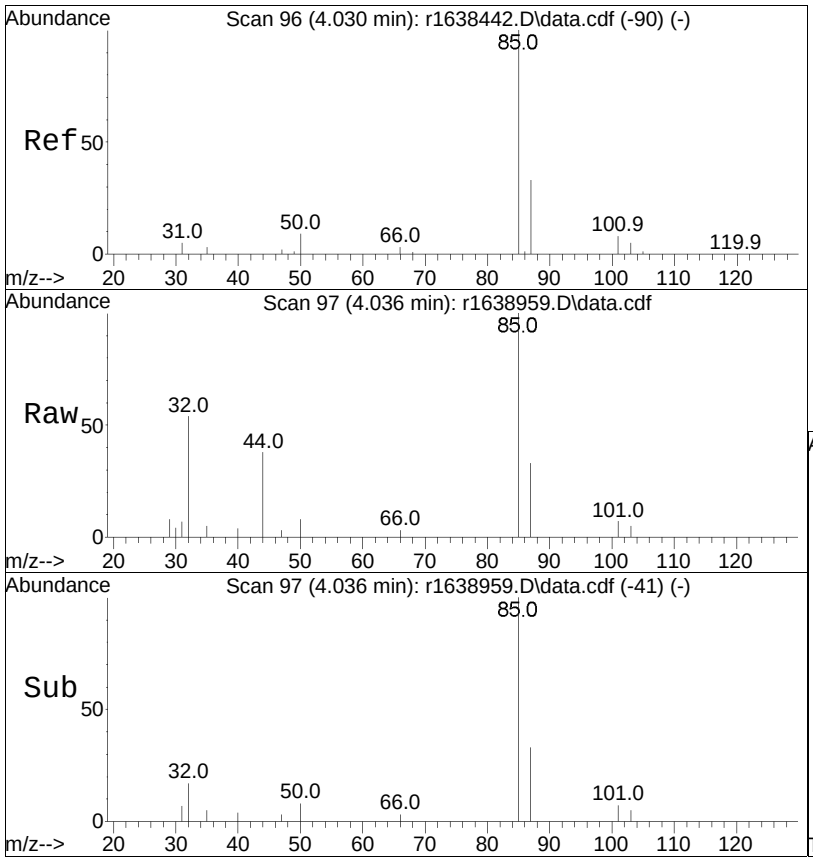
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638959.D
Acq On : 22 Aug 2023 5:10 PM
Operator : AIRLAB16:APR
Sample : L2347540-10,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:14 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

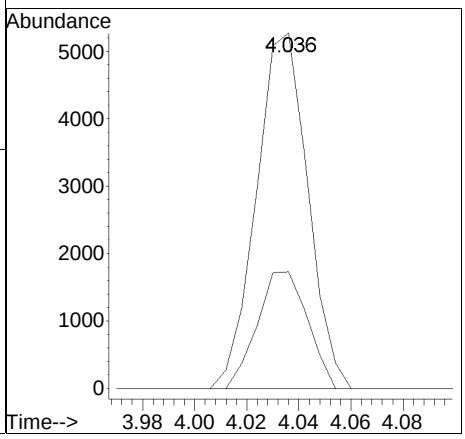


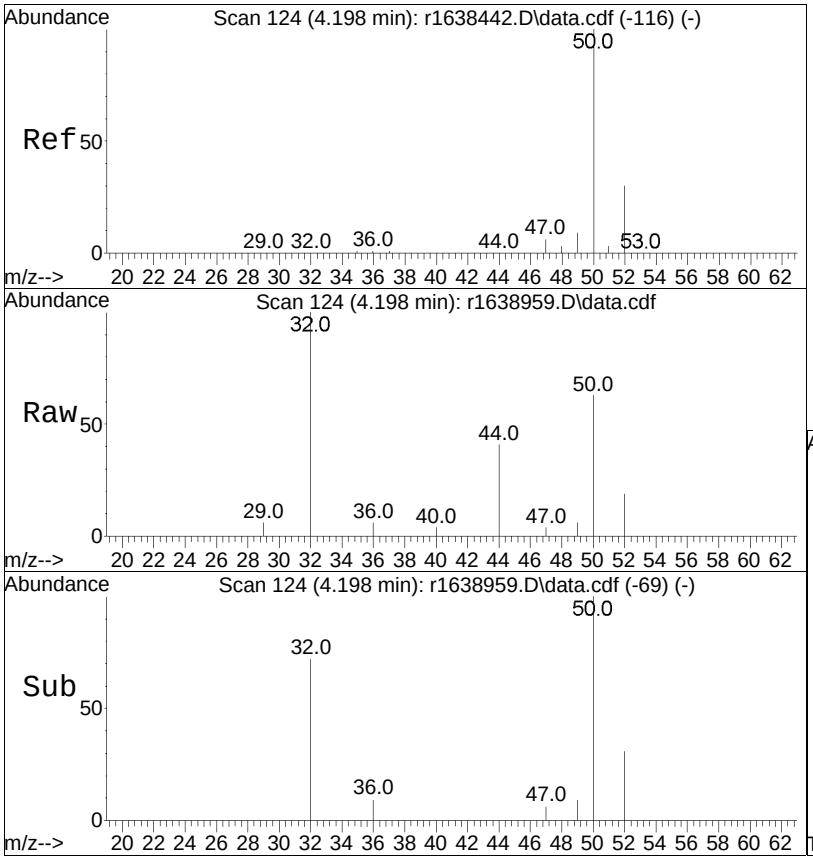


#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.036 min Scan# 97
Delta R.T. 0.006 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 85 Resp: 7230

Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.2	39.2

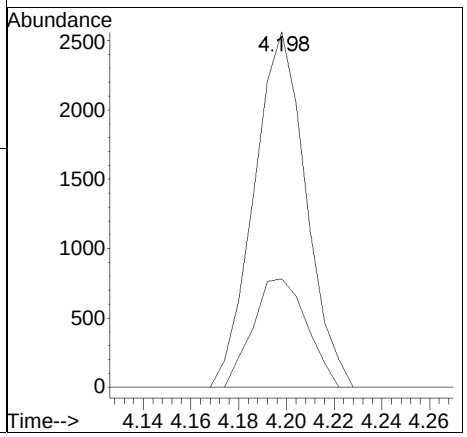


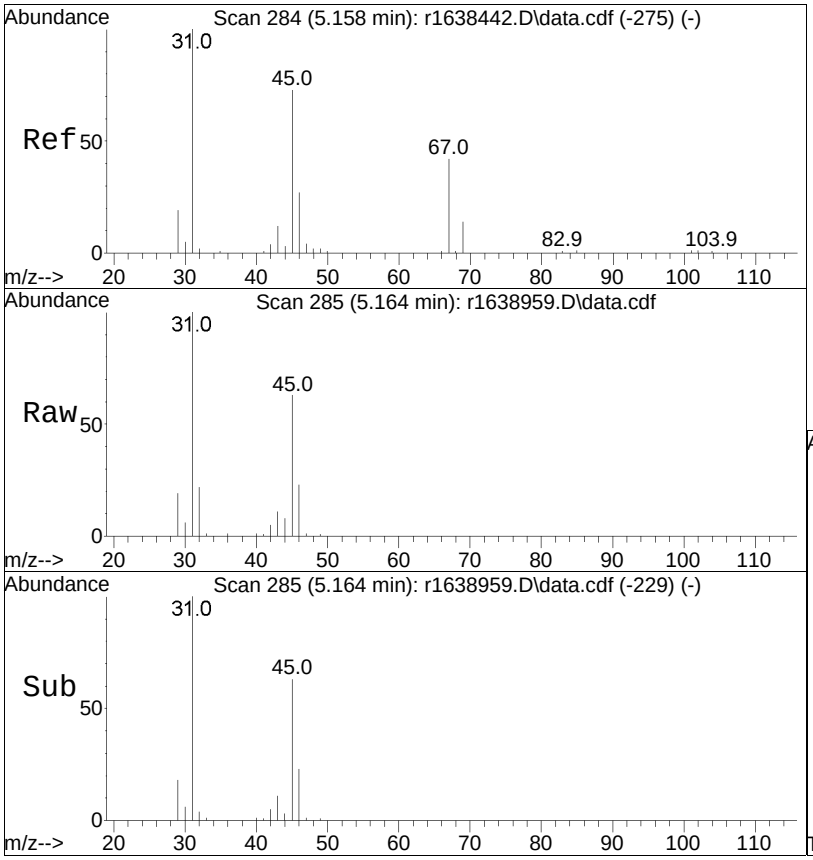


#6
chloromethane
Concen: 0.44 ppbV
RT: 4.198 min Scan# 124
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 50 Resp: 3885

Ion	Ratio	Lower	Upper
50	100		
52	30.6	24.3	36.5

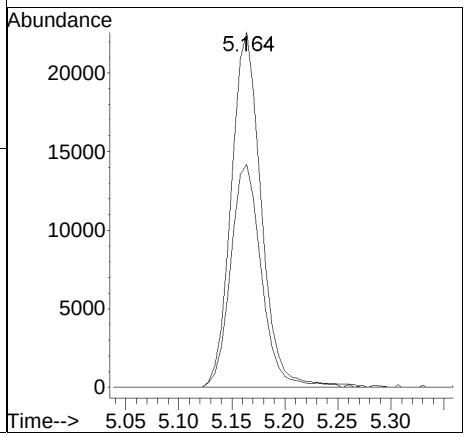


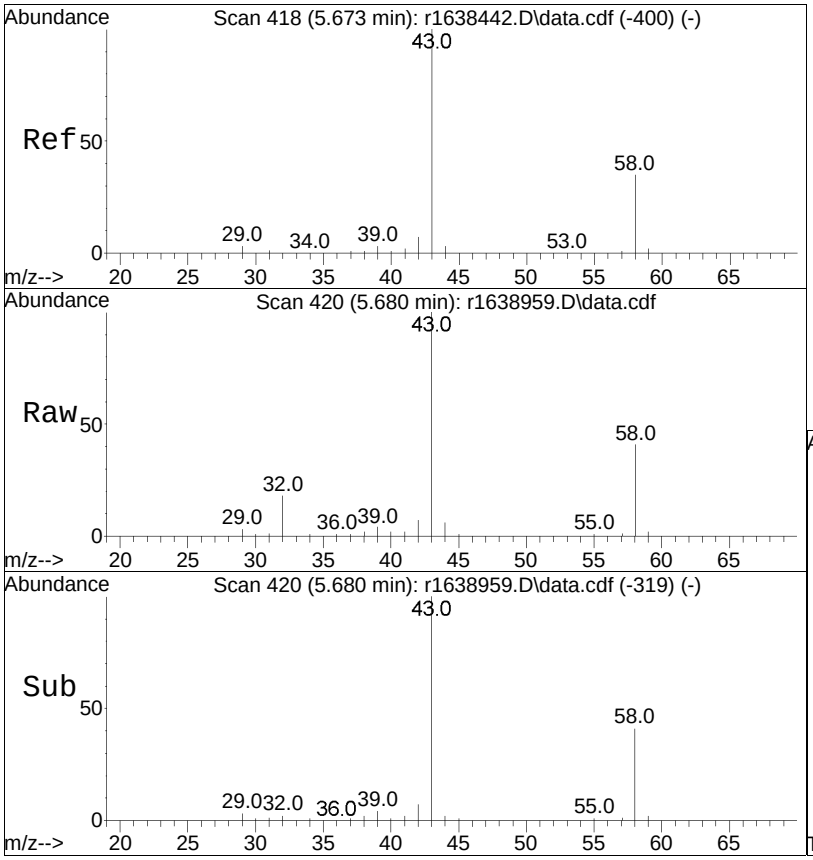


#15
ethanol
Concen: 8.07 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.006 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 31 Resp: 44546

Ion	Ratio	Lower	Upper
31	100		
45	62.8	58.6	87.8

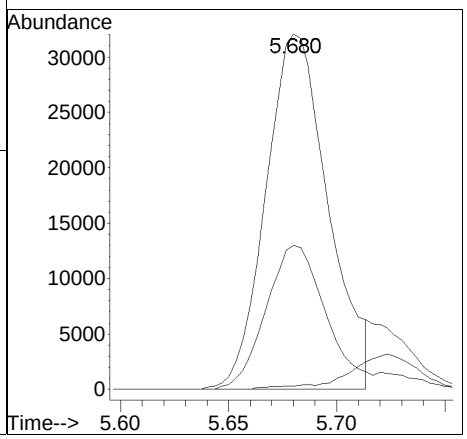


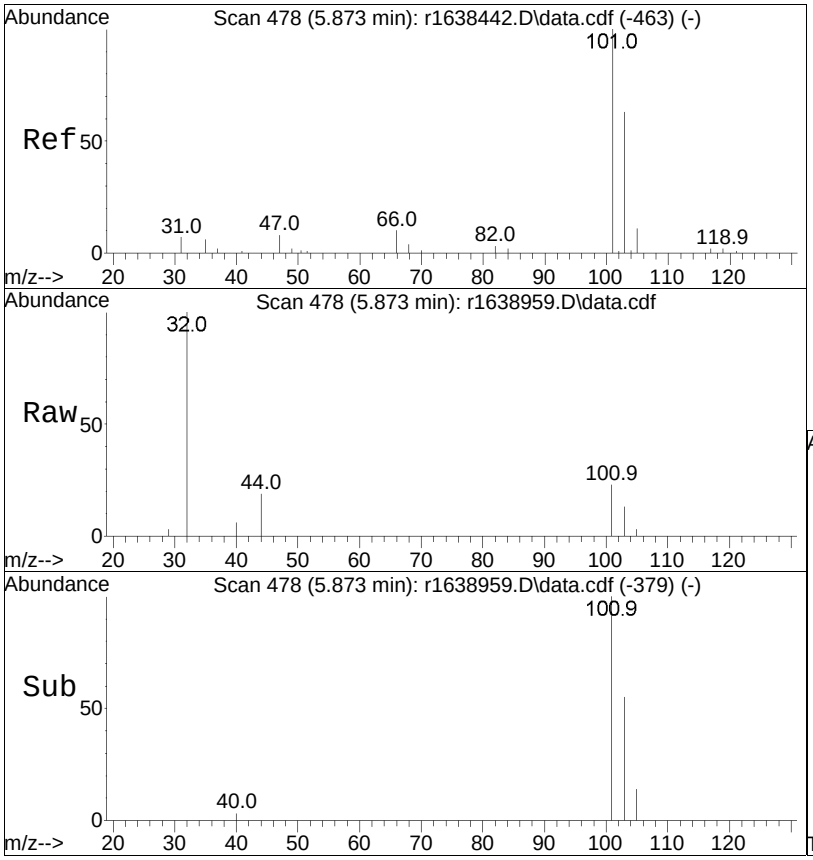


#19
acetone
Concen: 5.77 ppbV m
RT: 5.680 min Scan# 420
Delta R.T. 0.007 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 43 Resp: 64343

Ion	Ratio	Lower	Upper
43	100		
58	40.5	28.3	42.5
57	1.0	0.6	1.0

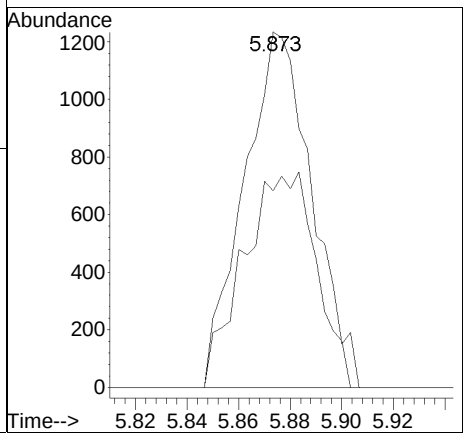


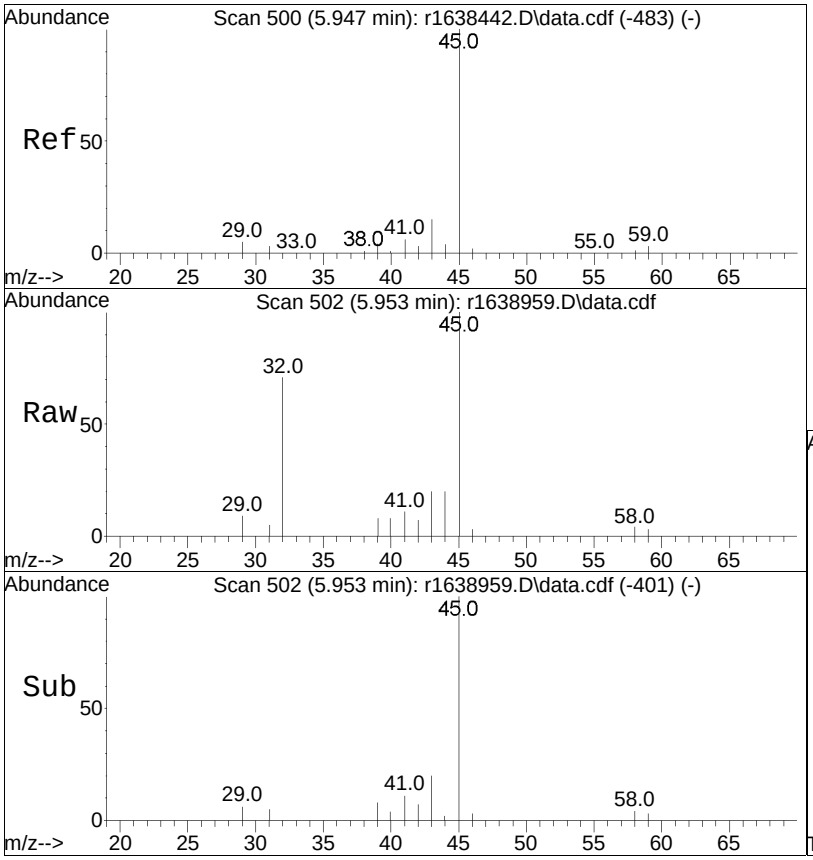


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:101 Resp: 2264

Ion	Ratio	Lower	Upper
101	100		
103	55.3	50.6	76.0

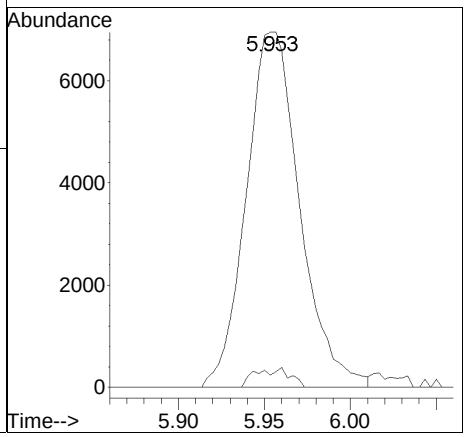


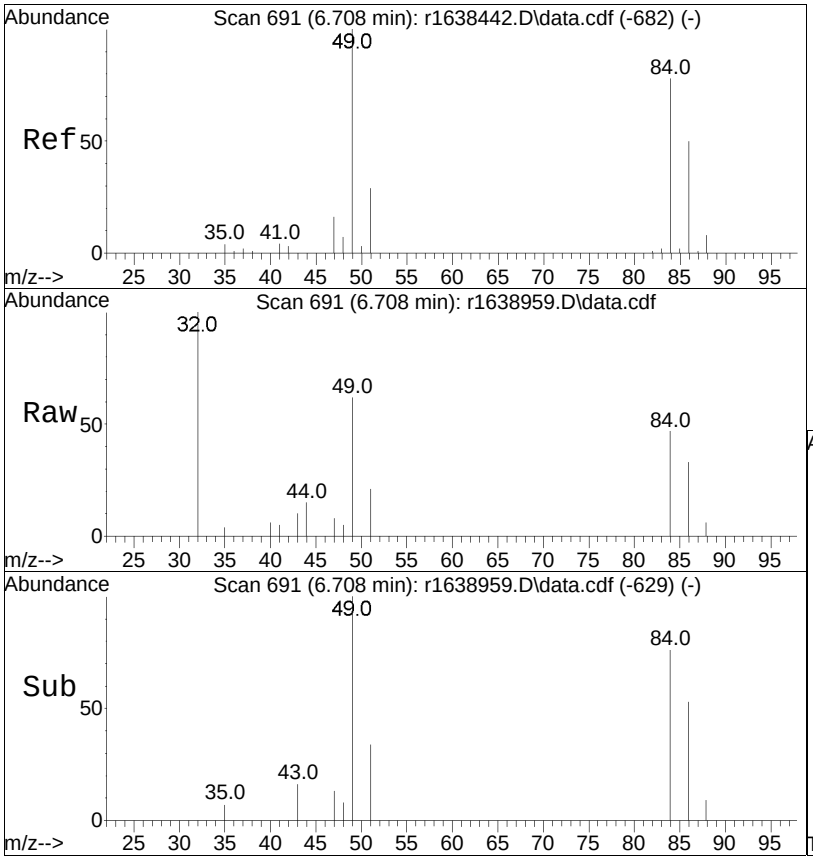


#22
isopropyl alcohol
Concen: 0.94 ppbV
RT: 5.953 min Scan# 502
Delta R.T. 0.007 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 45 Resp: 15091

Ion	Ratio	Lower	Upper
45	100		
59	3.5	2.8	4.2

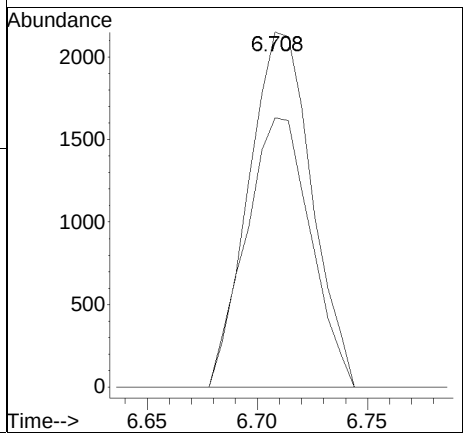


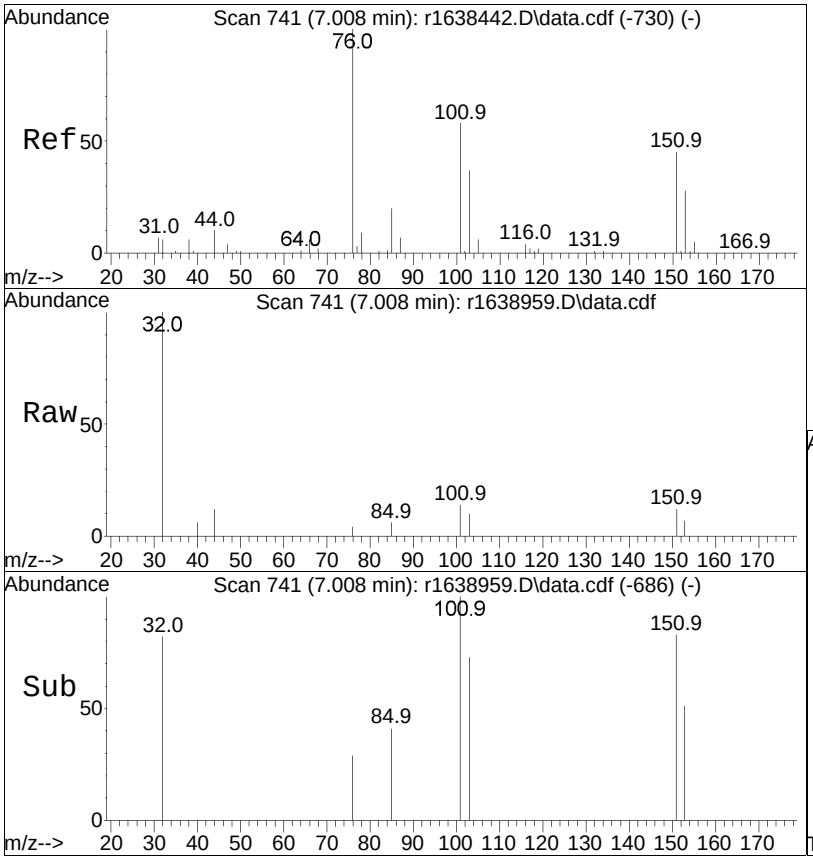


#28
methylene chloride
Concen: 0.36 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 49 Resp: 4290

Ion	Ratio	Lower	Upper
49	100		
84	75.9	62.4	93.6

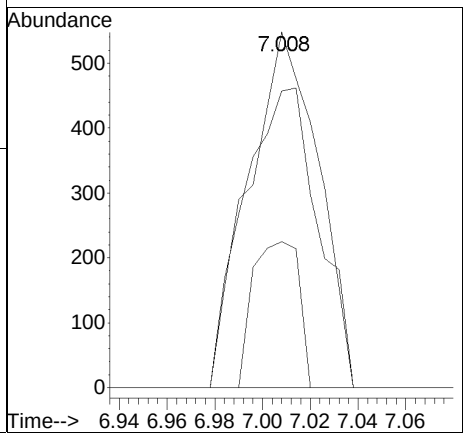


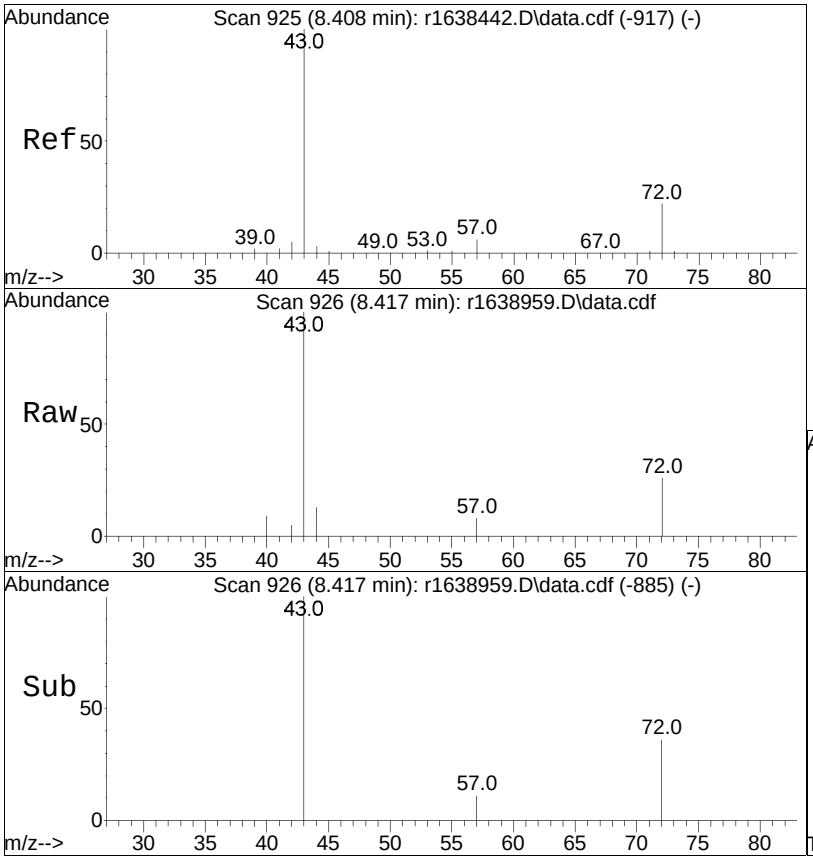


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.008 min Scan# 741
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:101 Resp: 1110

Ion	Ratio	Lower	Upper
101	100		
85	41.1	27.8	41.6
151	83.4	62.2	93.4

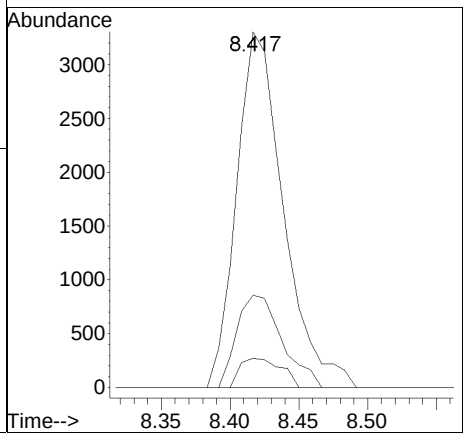


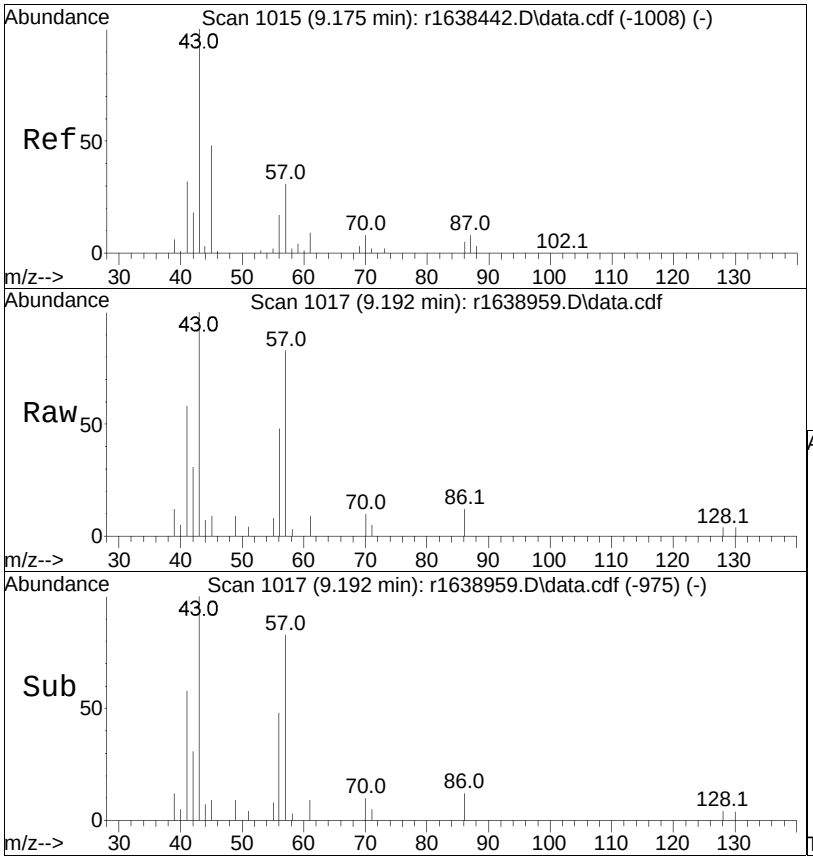


#36
2-butanone
Concen: 0.30 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 43 Resp: 7836

Ion	Ratio	Lower	Upper
43	100		
72	26.0	17.4	26.0
57	8.2	4.8	7.2#

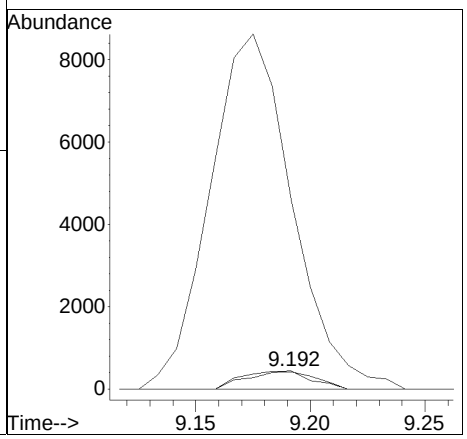


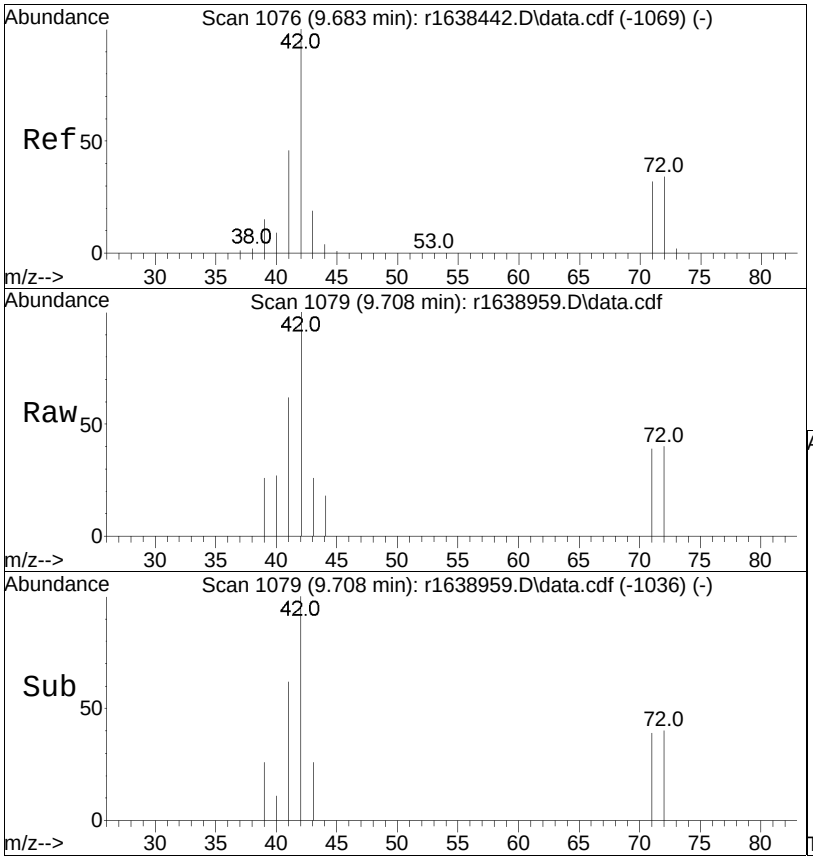


#38
Ethyl Acetate
Concen: 0.24 ppbV
RT: 9.192 min Scan# 1017
Delta R.T. 0.017 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 61 Resp: 924

Ion	Ratio	Lower	Upper
61	100		
70	104.4	74.6	112.0
43	1074.0	942.0	1413.0

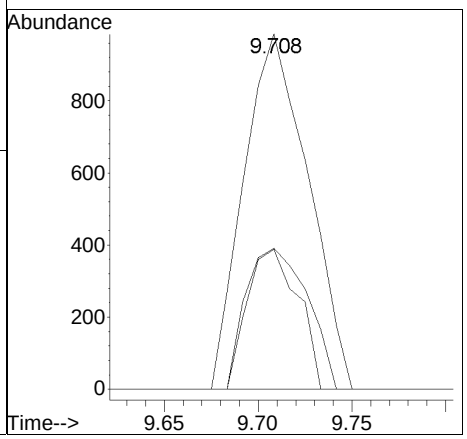


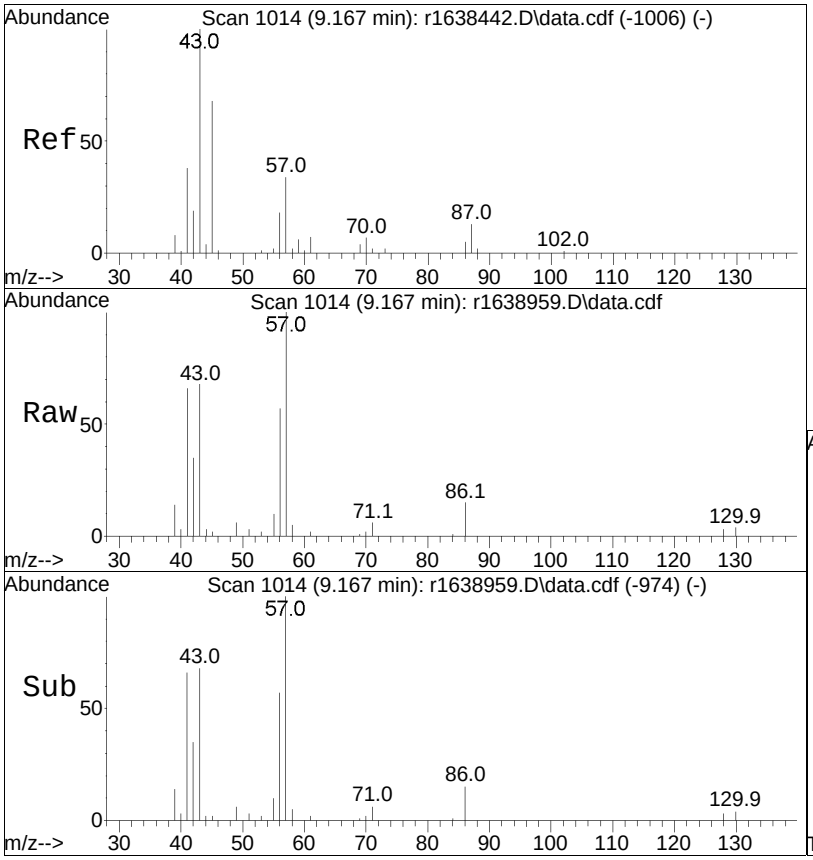


#40
Tetrahydrofuran
Concen: 0.14 ppbV
RT: 9.708 min Scan# 1079
Delta R.T. 0.025 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 42 Resp: 2355

Ion	Ratio	Lower	Upper
42	100		
71	39.4	25.6	38.4#
72	39.7	27.4	41.2

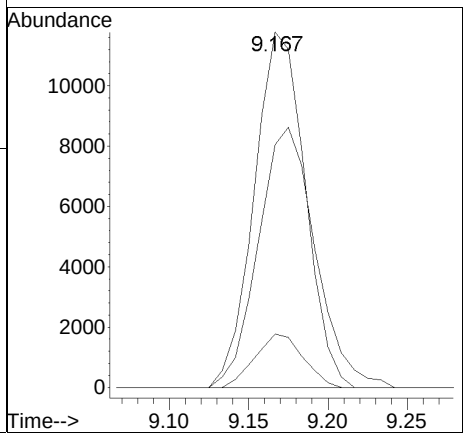


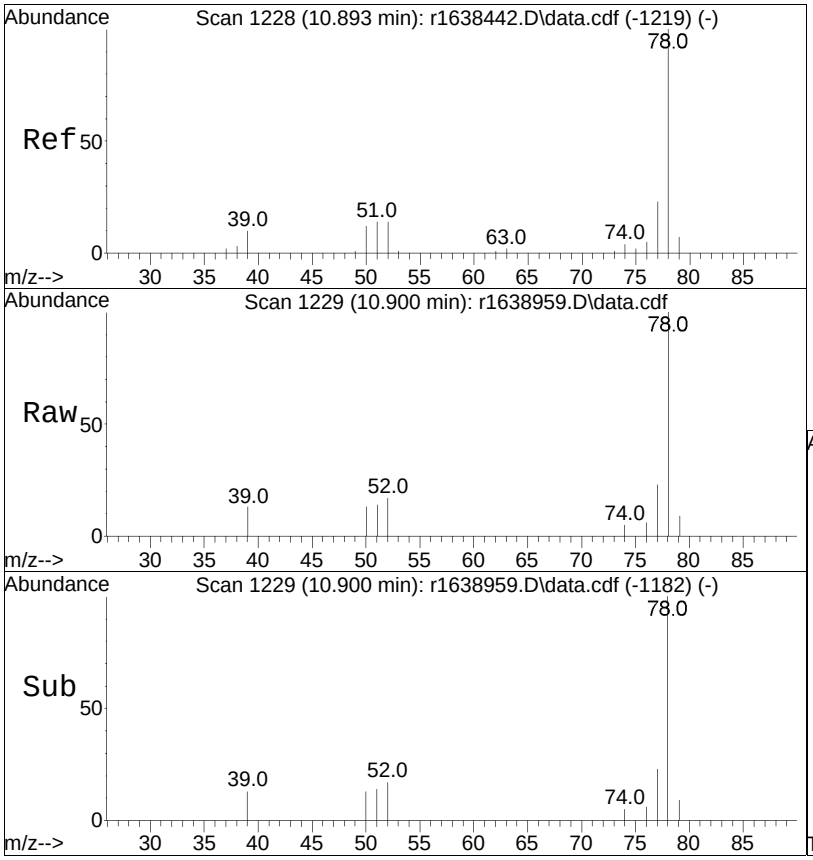


#44
hexane
Concen: 1.57 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 57 Resp: 26282

Ion	Ratio	Lower	Upper
57	100		
43	68.3	233.1	349.7#
86	15.0	12.6	18.8

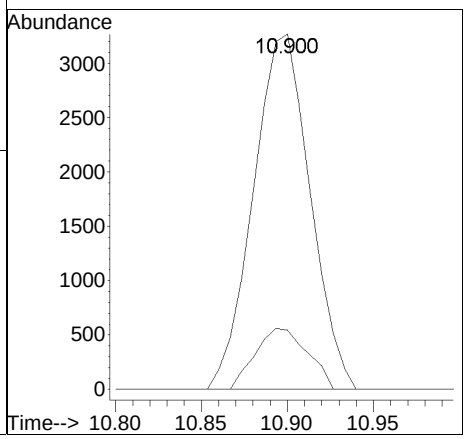


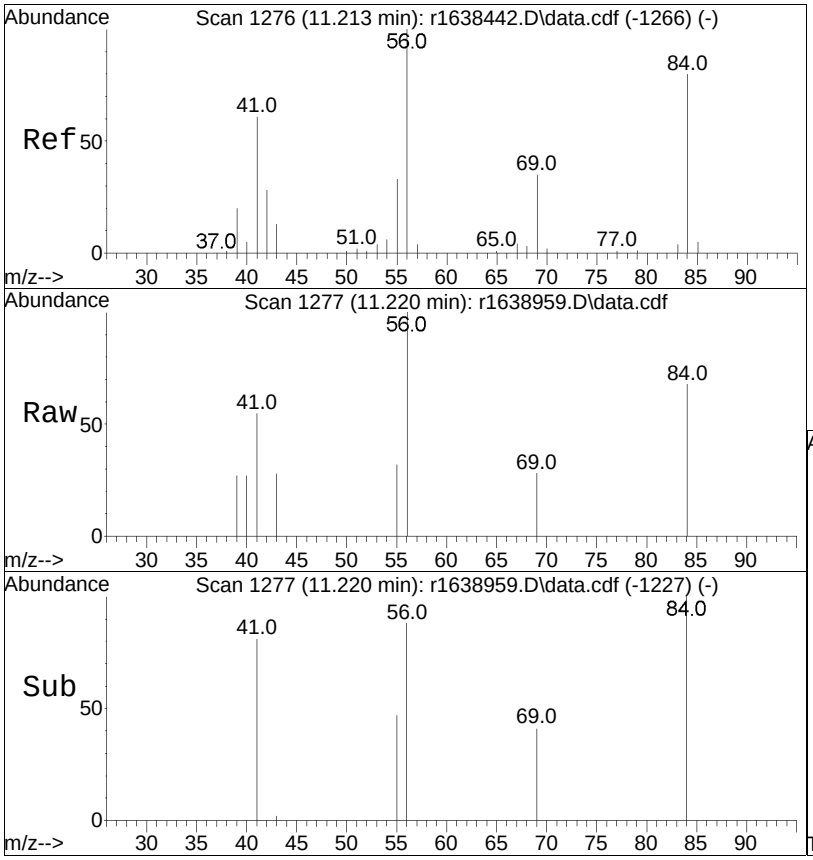


#50
benzene
Concen: 0.22 ppbV
RT: 10.900 min Scan# 1229
Delta R.T. 0.007 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 78 Resp: 7503

Ion	Ratio	Lower	Upper
78	100		
52	16.7	11.6	17.4

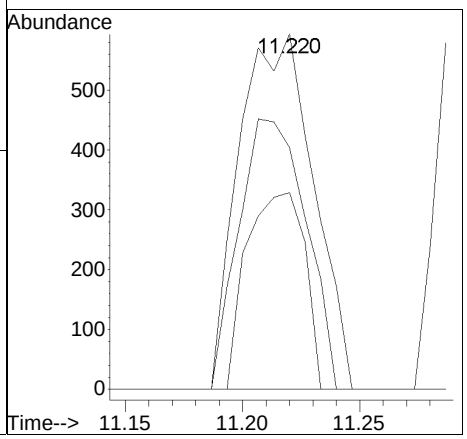


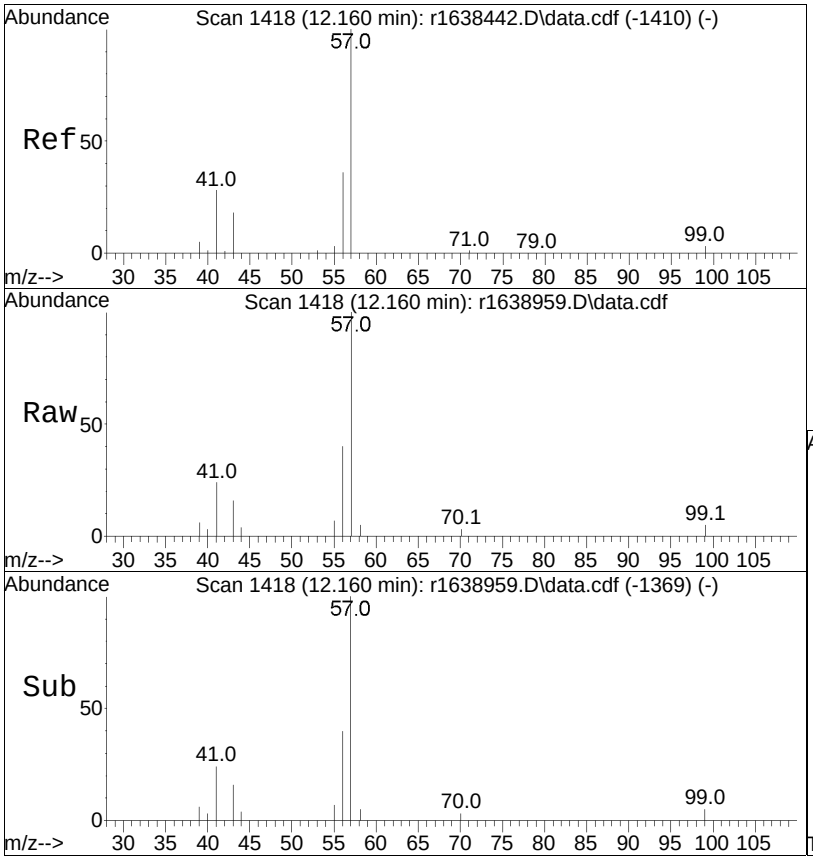


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.220 min Scan# 1277
Delta R.T. 0.007 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 56 Resp: 1310

Ion	Ratio	Lower	Upper
56	100		
84	68.0	64.2	96.4
41	55.4	48.8	73.2

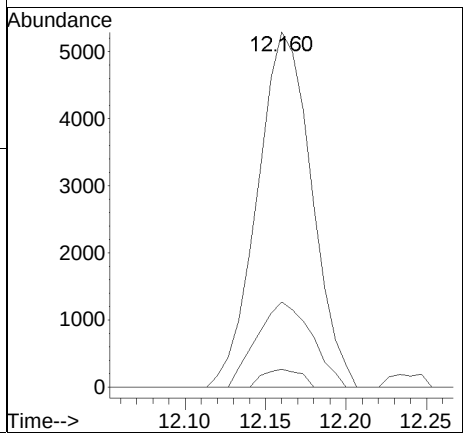


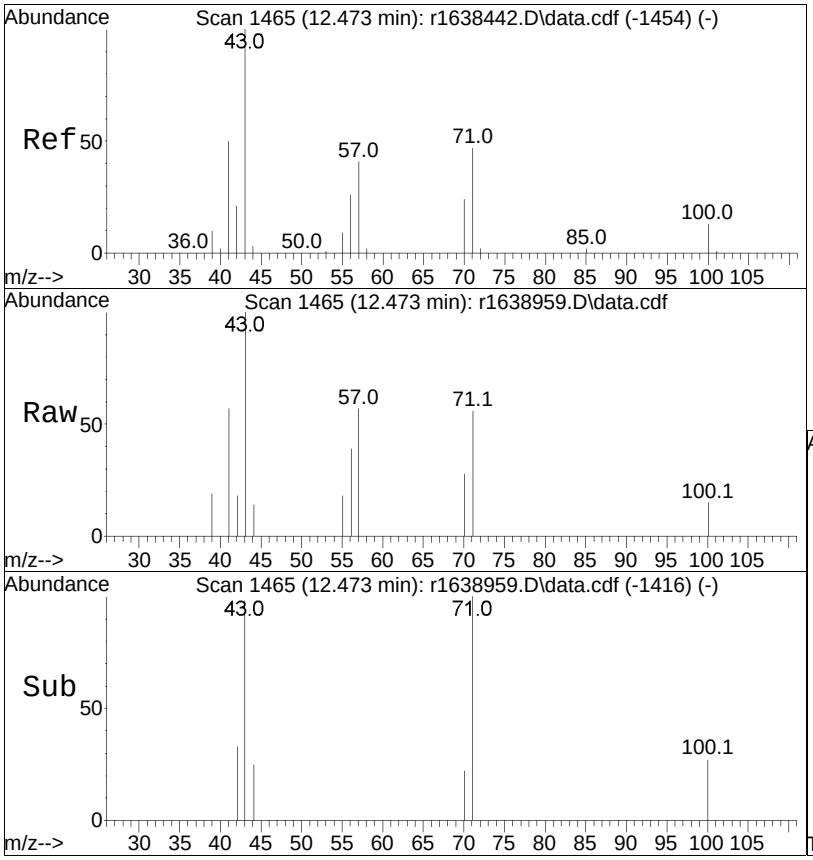


#60
2,2,4-trimethylpentane
Concen: 0.23 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 57 Resp: 12437

Ion	Ratio	Lower	Upper
57	100		
99	5.1	4.4	6.6
41	24.1	21.9	32.9

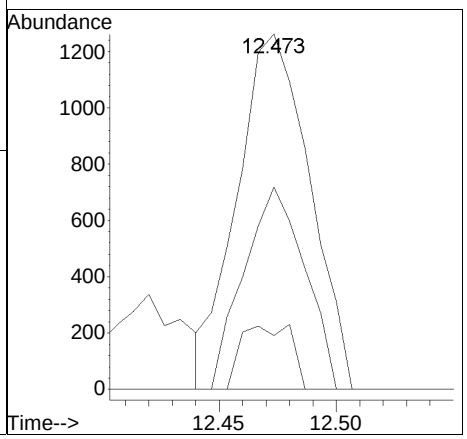


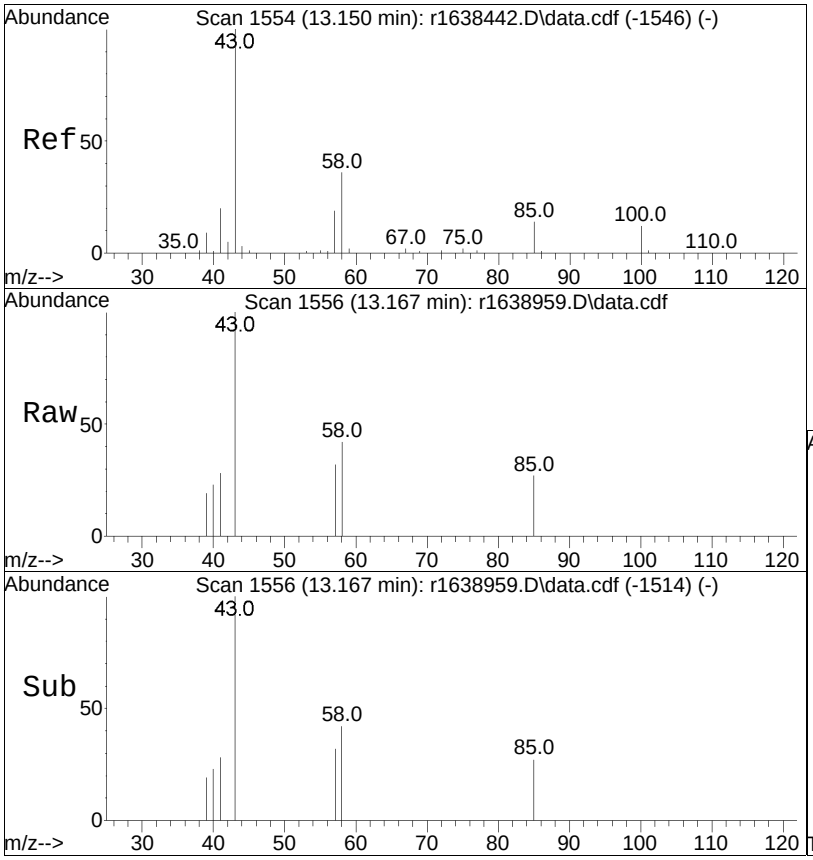


#62
heptane
Concen: 0.11 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 43 Resp: 2718

Ion	Ratio	Lower	Upper
43	100		
57	56.9	32.8	49.2#
100	15.1	10.9	16.3

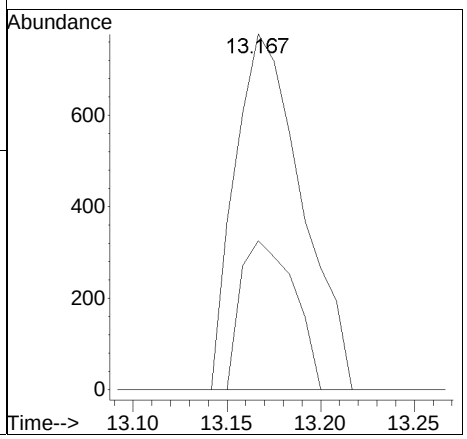


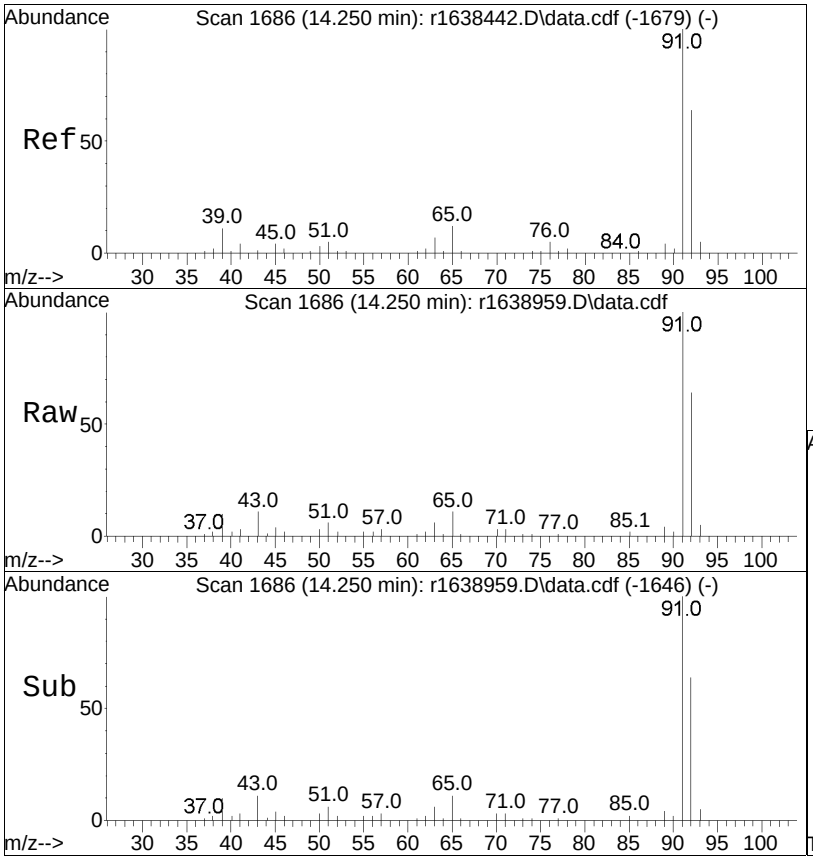


#64
4-methyl-2-pentanone
Concen: 0.06 ppbV
RT: 13.167 min Scan# 1556
Delta R.T. 0.017 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 43 Resp: 1927

Ion	Ratio	Lower	Upper
43	100		
58	41.8	28.6	43.0
100	0.0	9.9	14.9#

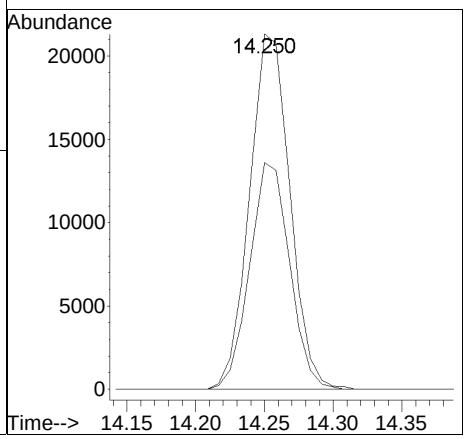


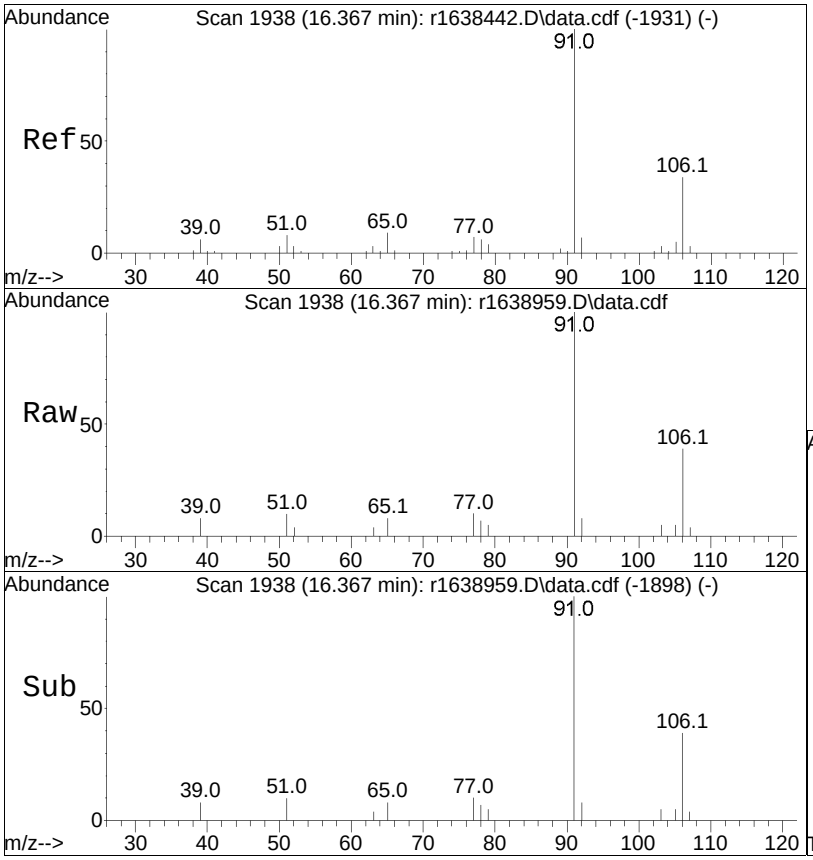


#68
toluene
Concen: 0.97 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 91 Resp: 43601

Ion	Ratio	Lower	Upper
91	100		
92	63.8	51.0	76.4

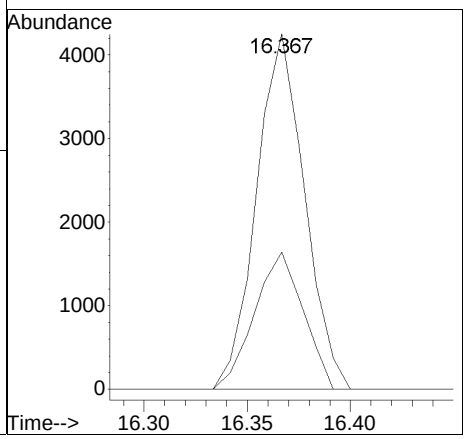


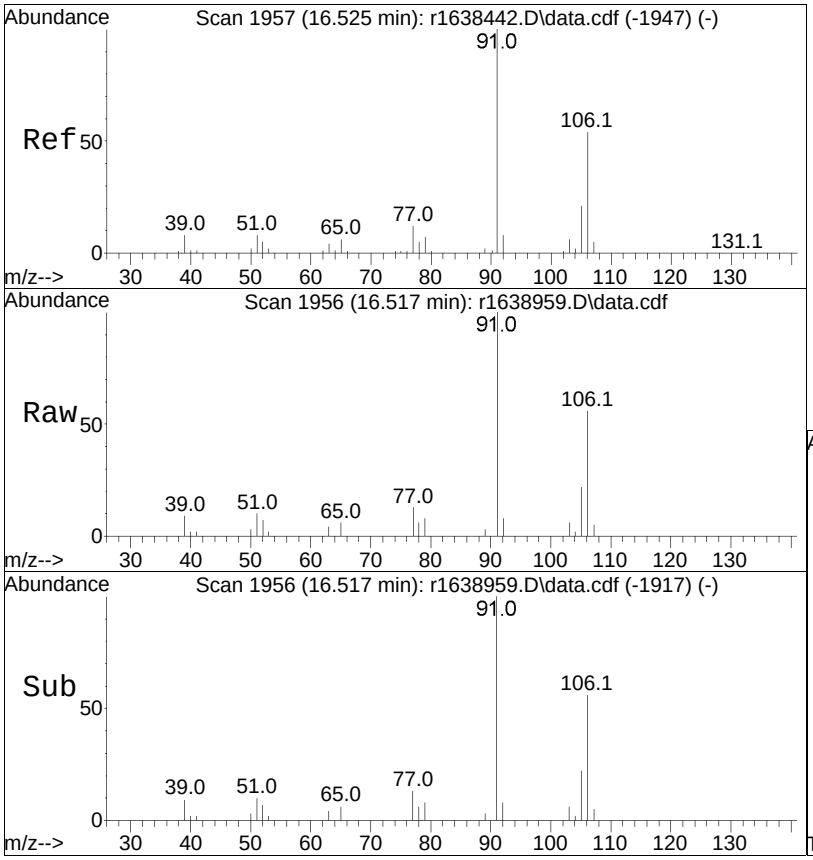


#81
ethylbenzene
Concen: 0.12 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 91 Resp: 6889

Ion	Ratio	Lower	Upper
91	100		
106	38.6	27.4	41.2

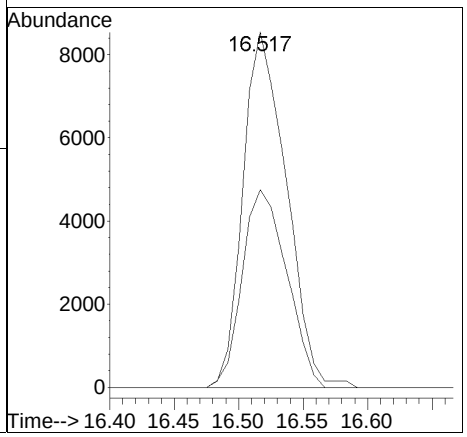


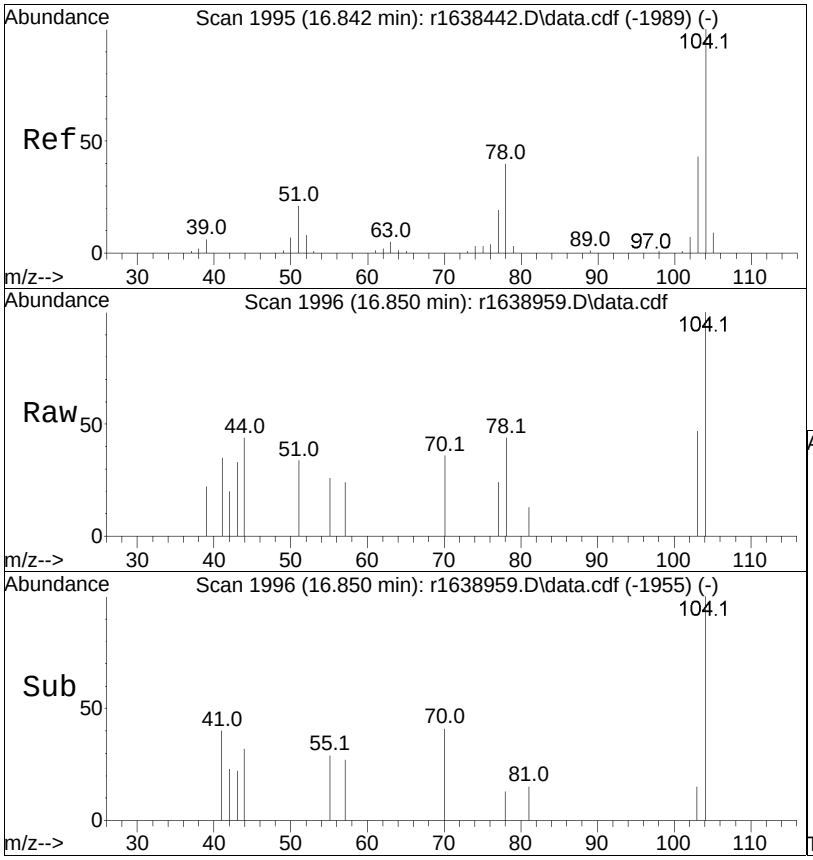


#83
m+p-xylene
Concen: 0.45 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 91 Resp: 19984

Ion	Ratio	Lower	Upper
91	100		
106	55.6	43.0	64.4

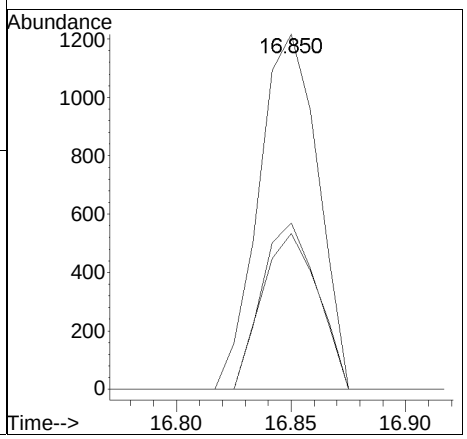


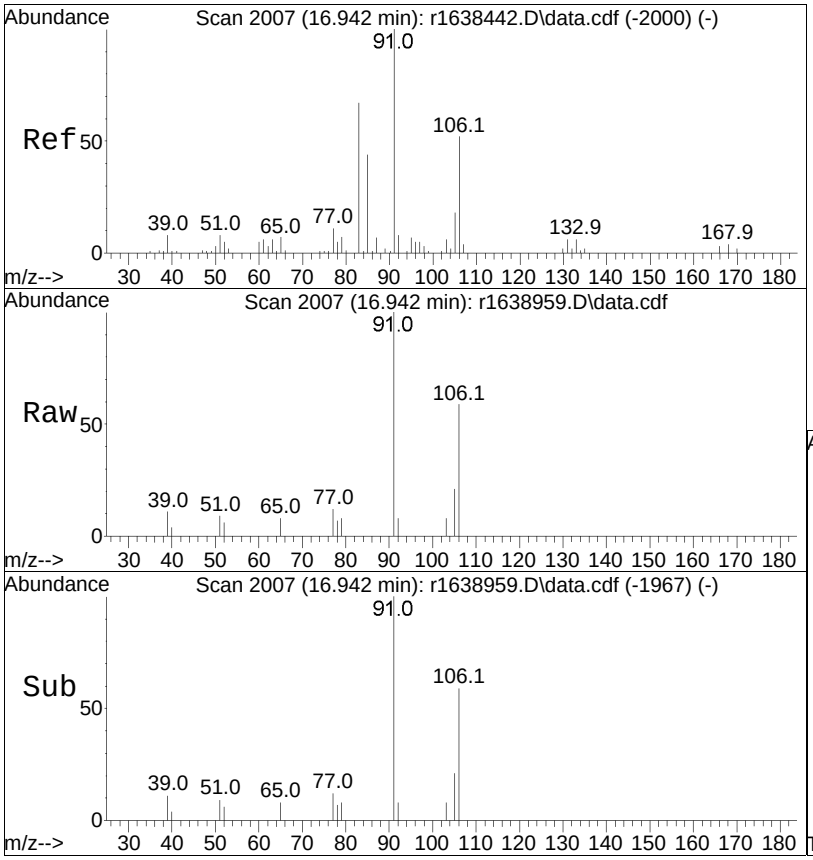


#85
styrene
Concen: 0.06 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:104 Resp: 2185

Ion	Ratio	Lower	Upper
104	100		
103	46.8	34.0	51.0
78	43.9	31.7	47.5

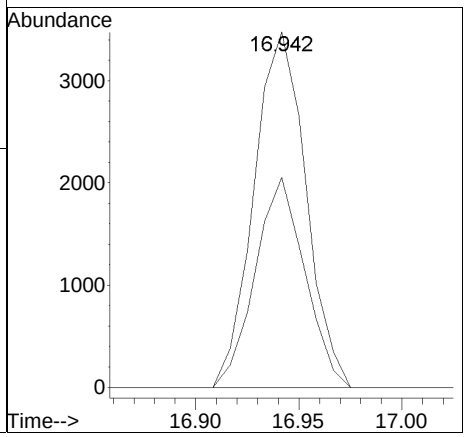


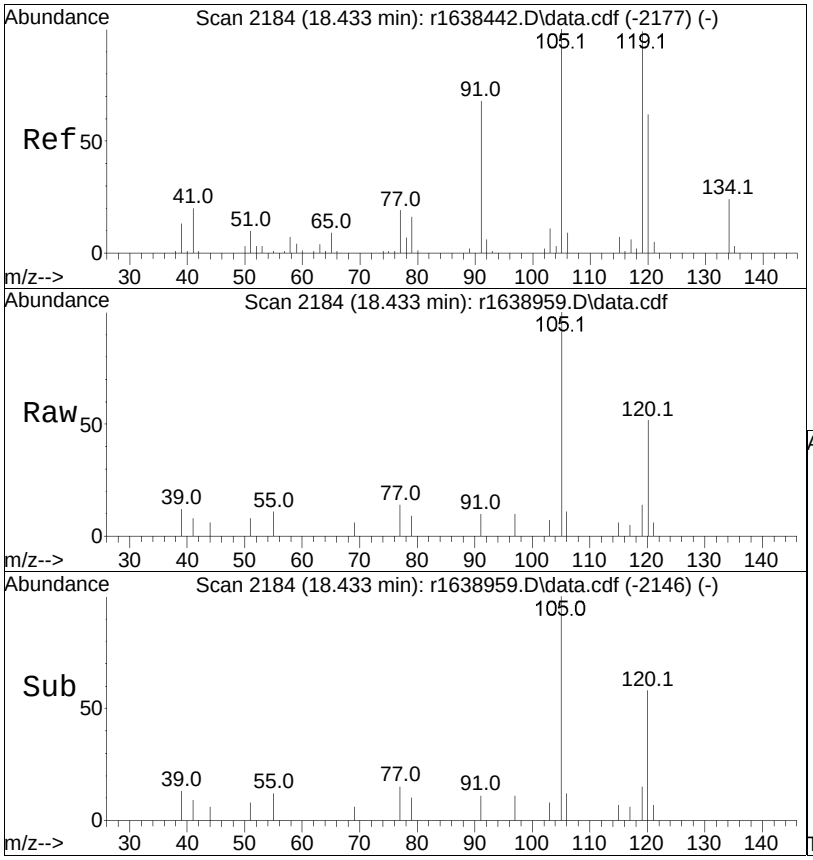


#87
o-xylene
Concen: 0.14 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion: 91 Resp: 6079

Ion	Ratio	Lower	Upper
91	100		
106	59.1	41.7	62.5

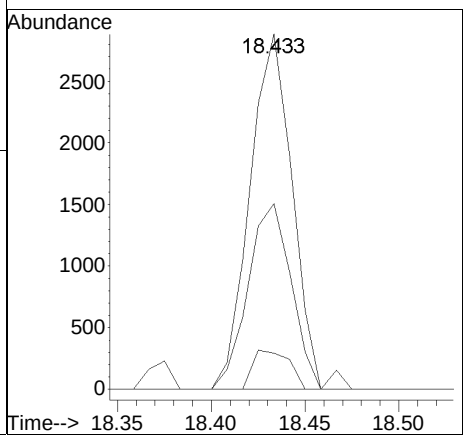




#99
1,2,4-trimethylbenzene
Concen: 0.09 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638959.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:105 Resp: 4584

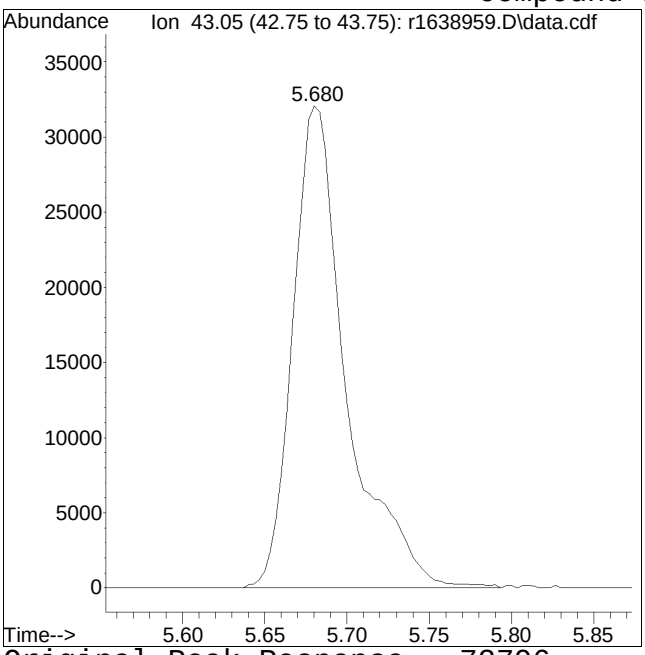
Ion	Ratio	Lower	Upper
105	100		
120	52.3	49.9	74.9
91	10.2	54.0	81.0#



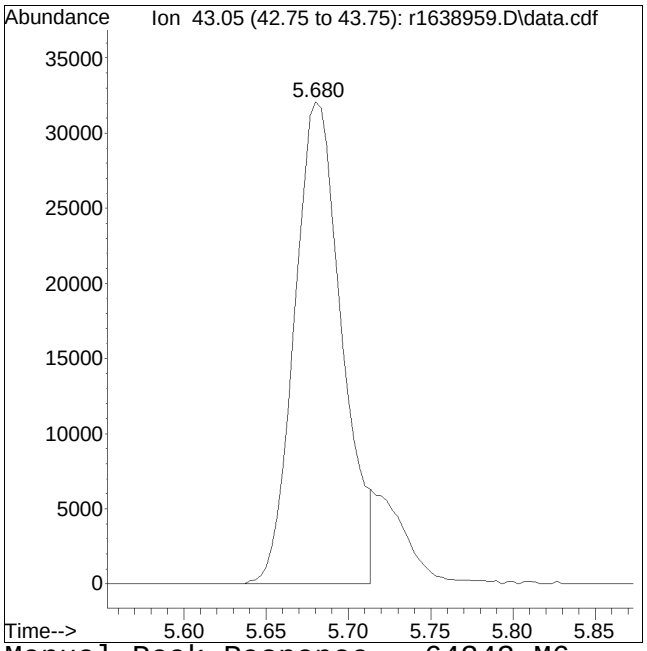
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638959.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:5: 0 Instrument :
Sample : L2347540-10,3,250,250 Quant Date : 8/23/2023 6:29 am

Compound #19: acetone



Original Peak Response = 72796



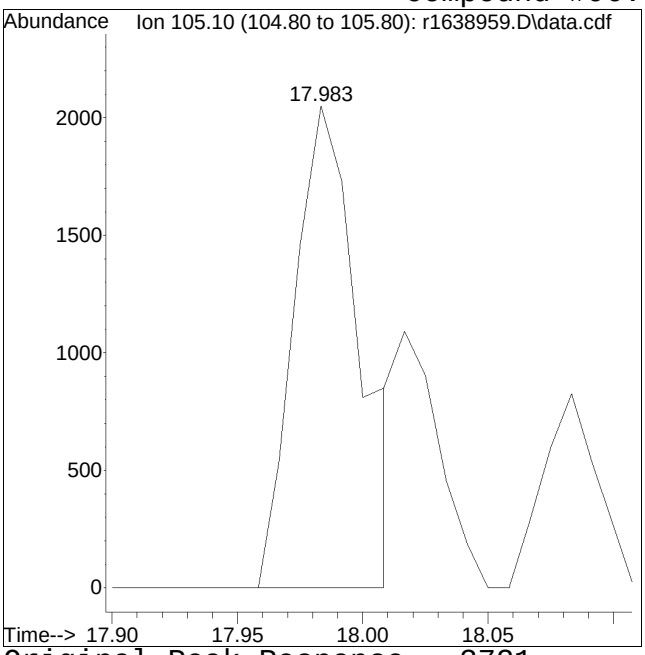
Manual Peak Response = 64343 M6

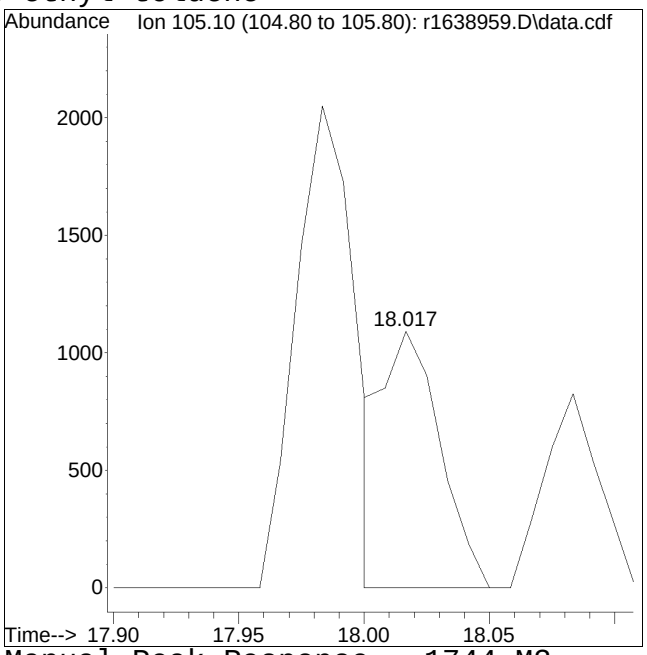
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638959.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:5: 0 Instrument :
Sample : L2347540-10,3,250,250 Quant Date : 8/23/2023 6:29 am

Compound #96: 4-ethyl toluene





Original Peak Response = 3721 Manual Peak Response = 1744 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638960.D
Acq On : 22 Aug 2023 5:50 PM
Operator : AIRLAB16:APR
Sample : L2347540-01,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	213125	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		99.47%	
43) 1,4-difluorobenzene	11.313	114	645120	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		96.64%	
67) chlorobenzene-D5	15.992	54	81746	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		99.01%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.036	85	7186	0.455	ppbV	99
6) chloromethane	4.198	50	4471	0.502	ppbV	95
7) Freon-114	4.306		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.164	31	633743	112.747	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.680	43	87627M6	7.726	ppbV	
21) trichlorofluoromethane	5.877	101	2193	0.197	ppbV	95
22) isopropyl alcohol	5.953	45	54512	3.324	ppbV #	96
27) tertiary butyl alcohol	6.612	59	2394	0.151	ppbV #	87
28) methylene chloride	6.714	49	4061	0.334	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	7.020	101	1060	0.053	ppbV #	79
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.	d	
36) 2-butanone	8.417	43	10195	0.379	ppbV #	91
38) Ethyl Acetate	9.183	61	2343	0.604	ppbV #	4
39) chloroform	9.250	83	669	0.039	ppbV #	76
40) Tetrahydrofuran	9.700	42	3132	0.184	ppbV	95
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	3223	0.190	ppbV	96
50) benzene	10.900	78	6581	0.189	ppbV #	89
53) cyclohexane	11.213	56	1154	0.064	ppbV	91
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638960.D
Acq On : 22 Aug 2023 5:50 PM
Operator : AIRLAB16:APR
Sample : L2347540-01,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

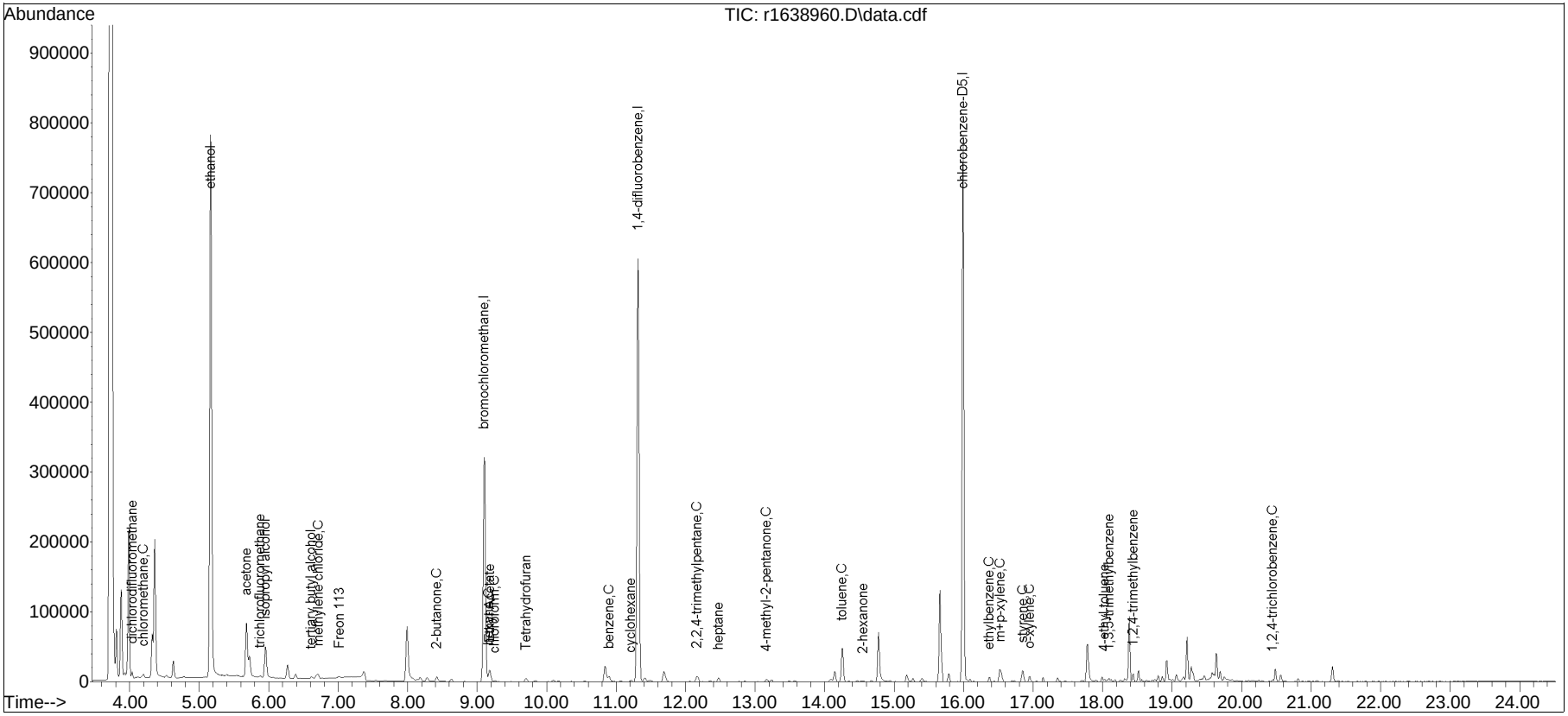
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.160	57	7195	0.130	ppbV		97
62)	heptane	12.473	43	2774	0.106	ppbV	#	83
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.158	43	3200	0.106	ppbV	#	89
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.250	91	39194	0.852	ppbV		98
72)	2-hexanone	14.550	43	1546	0.052	ppbV	#	90
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	0.000		0	N.D.			
81)	ethylbenzene	16.367	91	5503	0.095	ppbV		93
83)	m+p-xylene	16.525	91	15184	0.334	ppbV		92
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.850	104	4791	0.127	ppbV		96
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	16.950	91	5089	0.112	ppbV		96
96)	4-ethyl toluene	18.025	105	1947M3	0.031	ppbV		
97)	1,3,5-trimethylbenzene	18.092	105	2019	0.037	ppbV	#	89
99)	1,2,4-trimethylbenzene	18.442	105	6082	0.116	ppbV	#	57
101)	Benzyl Chloride	18.558		0	N.D.			
102)	1,3-dichlorobenzene	18.633		0	N.D.			
103)	1,4-dichlorobenzene	18.633		0	N.D.			
107)	1,2-dichlorobenzene	18.925		0	N.D.			
115)	1,2,4-trichlorobenzene	20.442	180	1200	0.047	ppbV	#	91
119)	hexachlorobutadiene	20.867		0	N.D.			

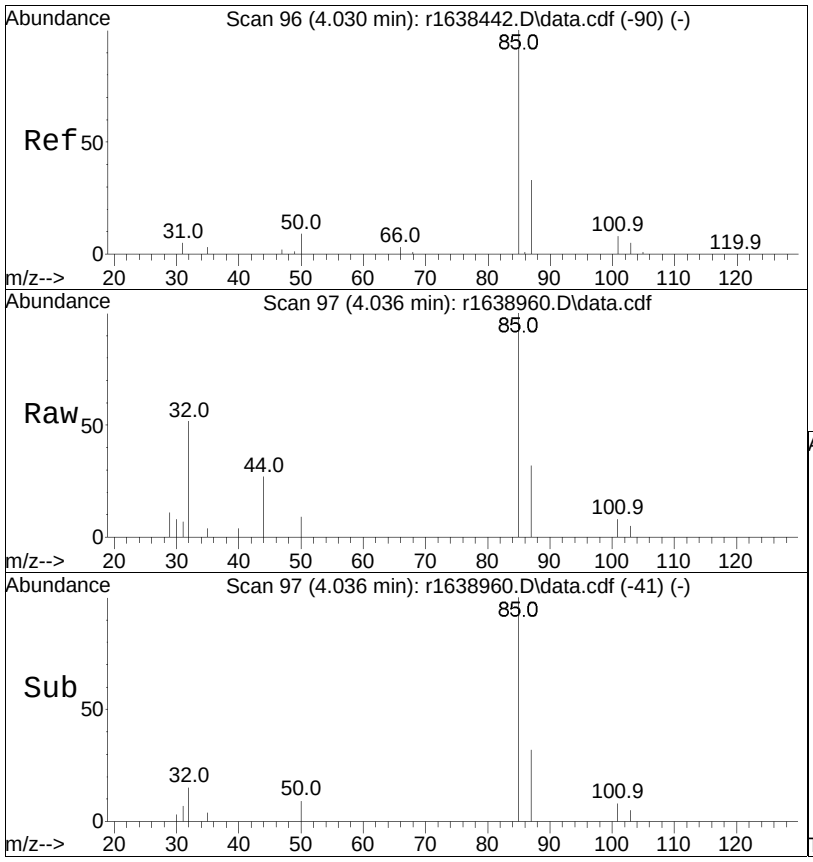
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638960.D
Acq On : 22 Aug 2023 5:50 PM
Operator : AIRLAB16:APR
Sample : L2347540-01,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:29:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

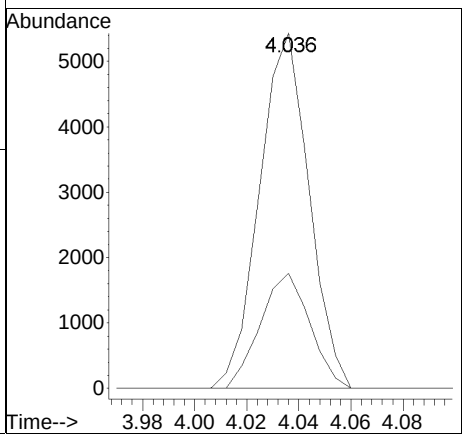


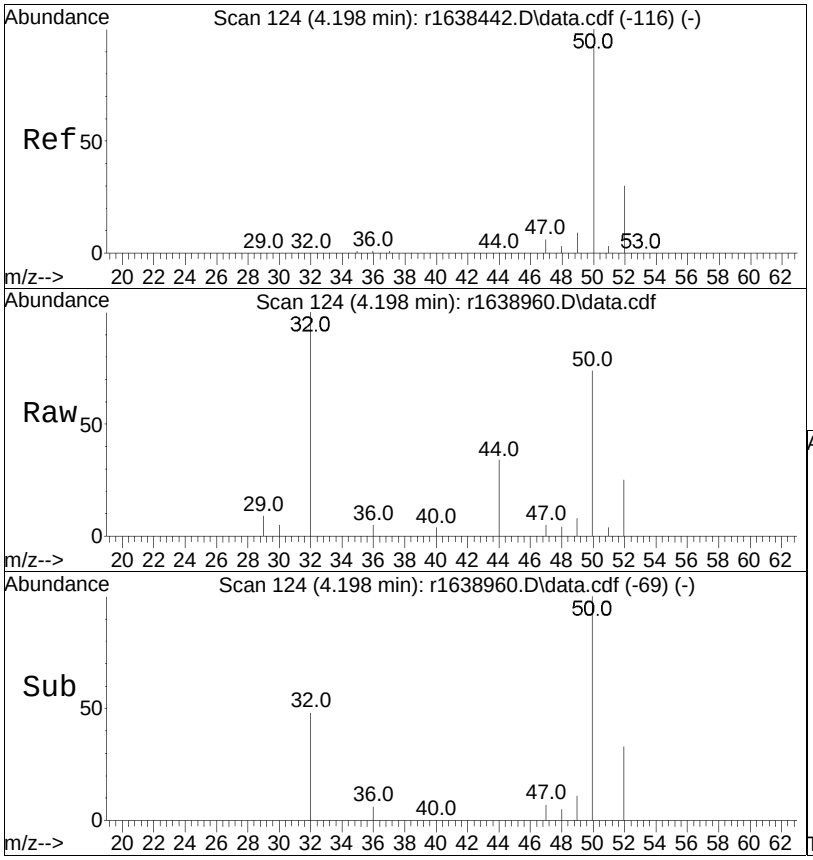


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.036 min Scan# 97
Delta R.T. 0.006 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 85 Resp: 7186

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.2	39.2

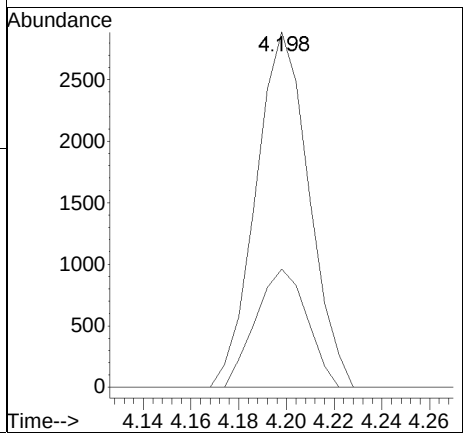


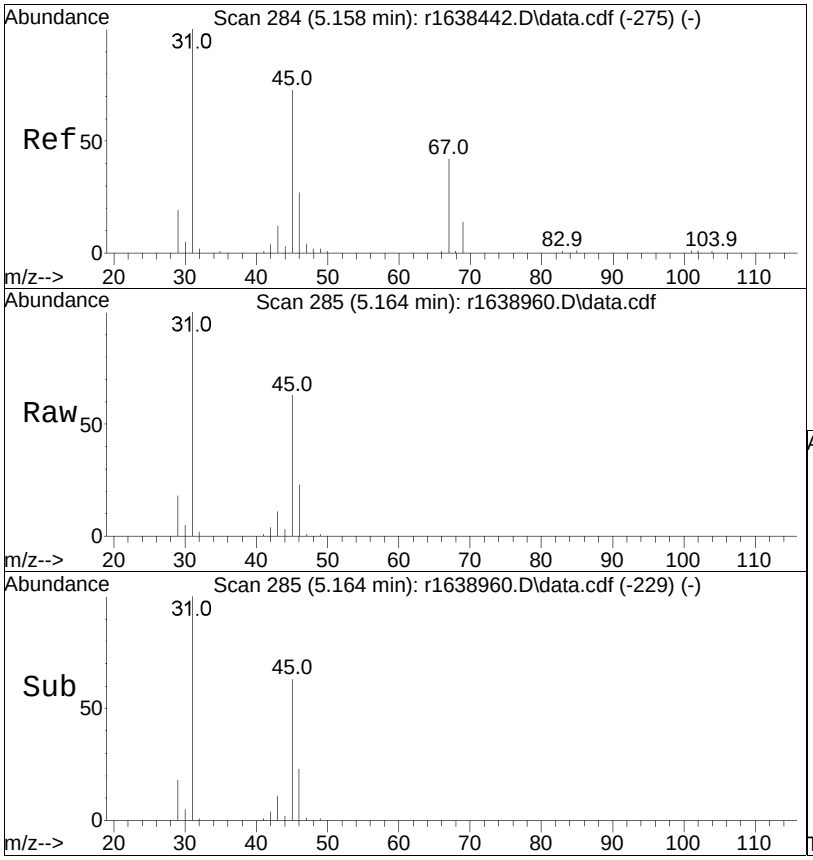


#6
chloromethane
Concen: 0.50 ppbV
RT: 4.198 min Scan# 124
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 50 Resp: 4471

Ion	Ratio	Lower	Upper
50	100		
52	33.3	24.3	36.5

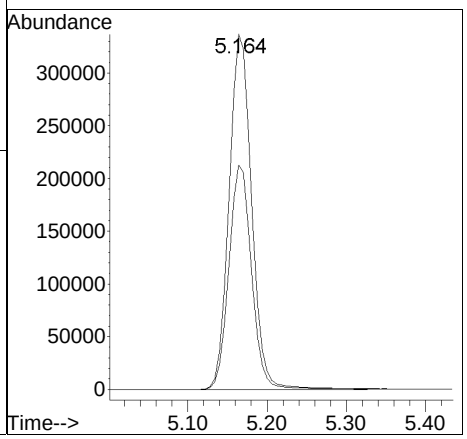


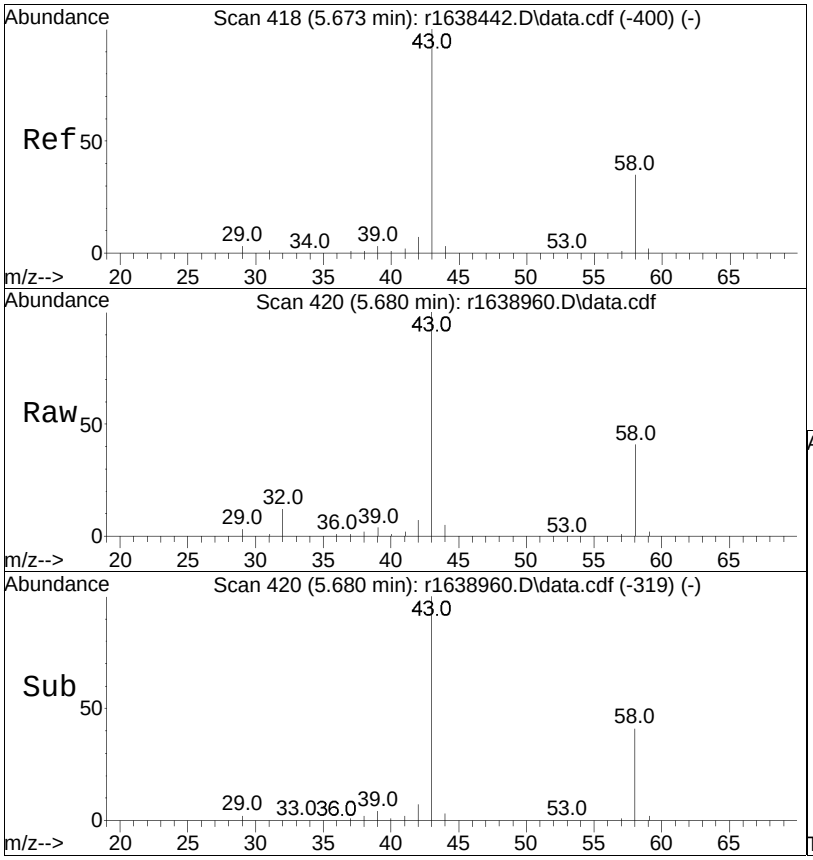


#15
ethanol
Concen: 112.75 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.006 min
Lab File: r1638960.D
Acq: 22 Aug 2023   5:50 PM

Tgt Ion: 31 Resp: 633743

Ion	Ratio	Lower	Upper
31	100		
45	63.2	58.6	87.8

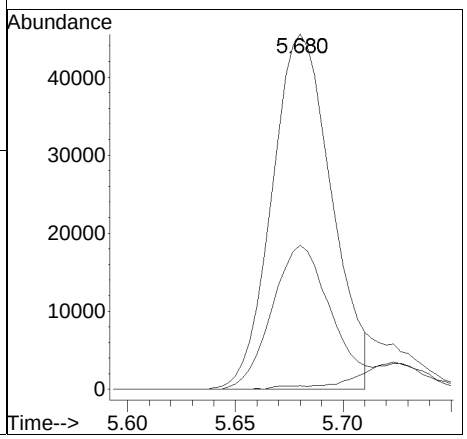


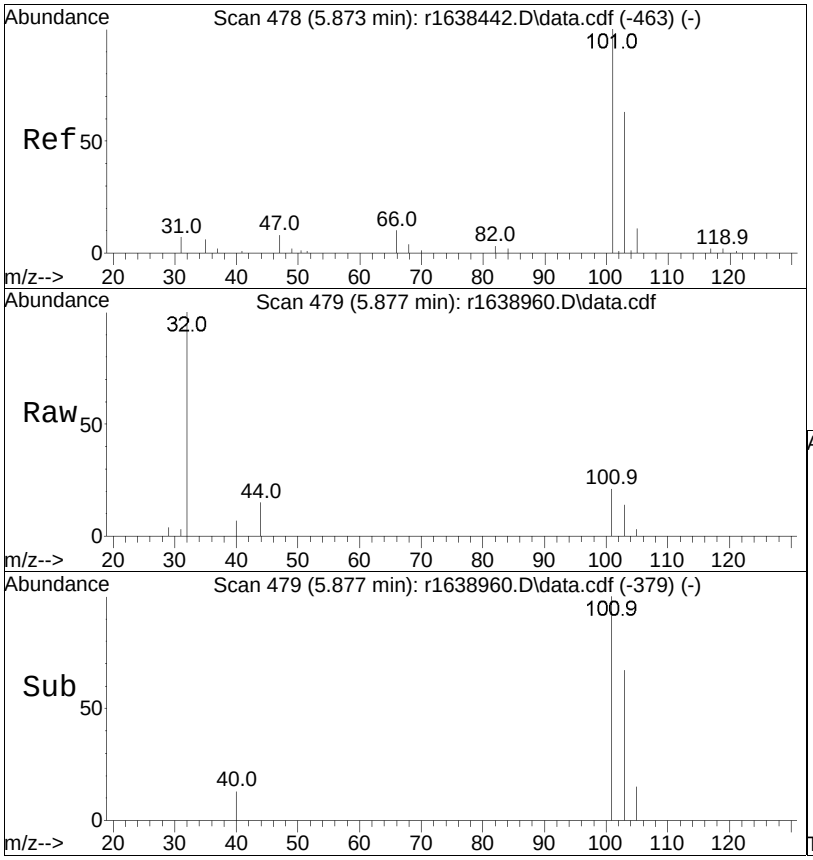


#19
acetone
Concen: 7.73 ppbV m
RT: 5.680 min Scan# 420
Delta R.T. 0.007 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 43 Resp: 87627

Ion	Ratio	Lower	Upper
43	100		
58	40.6	28.3	42.5
57	1.0	0.6	1.0#

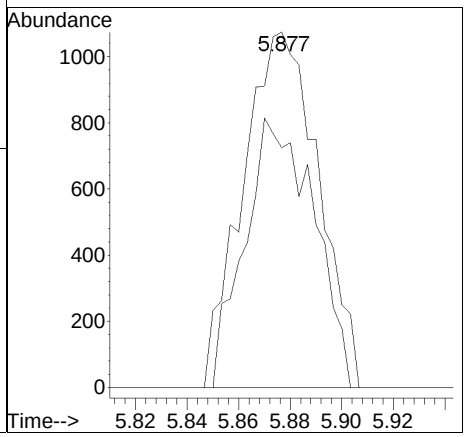


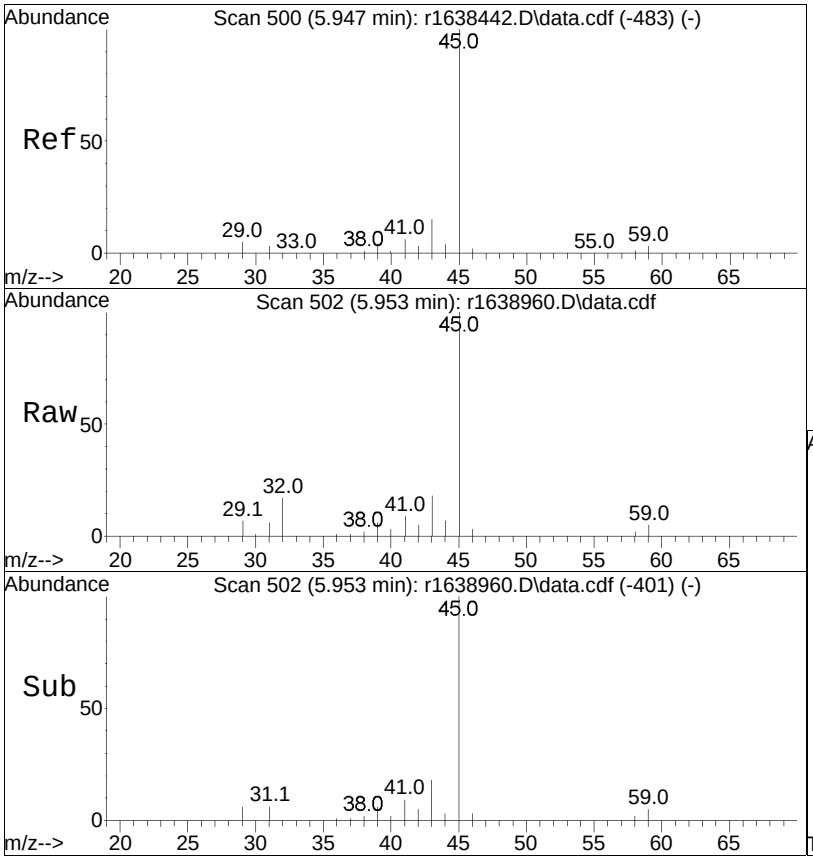


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.877 min Scan# 479
Delta R.T. 0.003 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:101 Resp: 2193

Ion	Ratio	Lower	Upper
101	100		
103	67.4	50.6	76.0

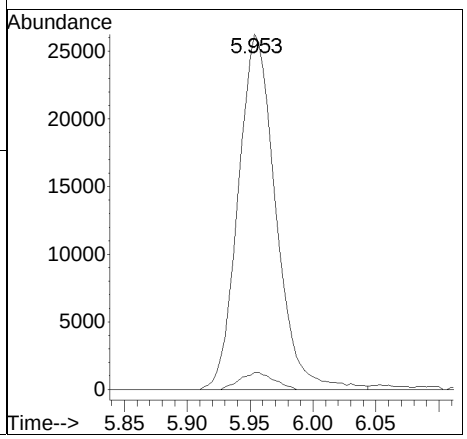


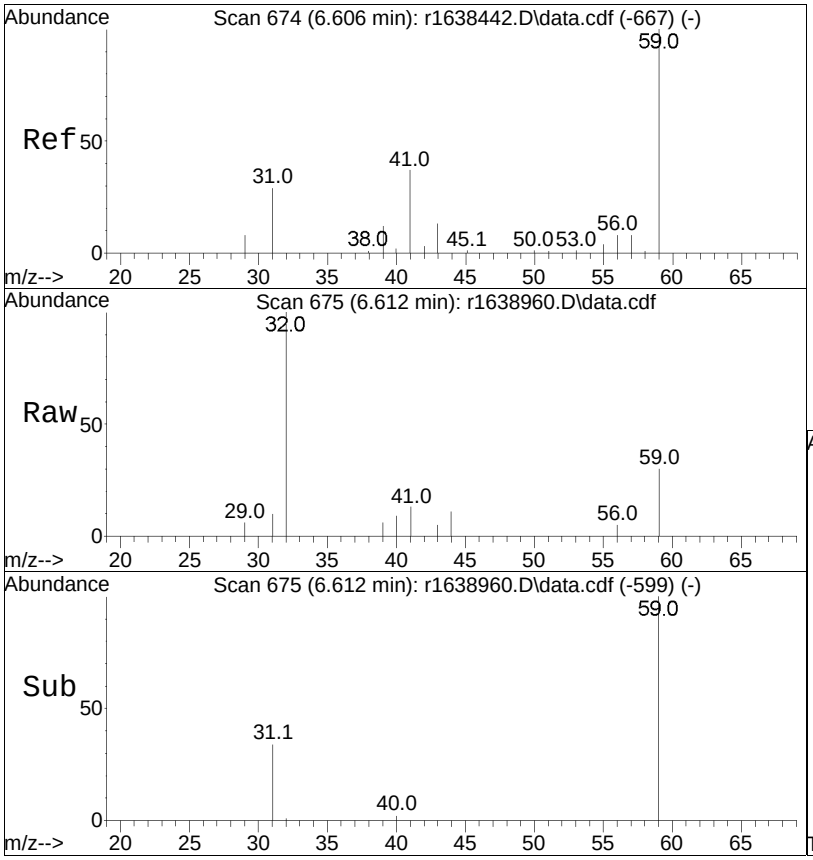


#22
isopropyl alcohol
Concen: 3.32 ppbV
RT: 5.953 min Scan# 502
Delta R.T. 0.007 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 45 Resp: 54512

Ion	Ratio	Lower	Upper
45	100		
59	4.8	2.8	4.2#

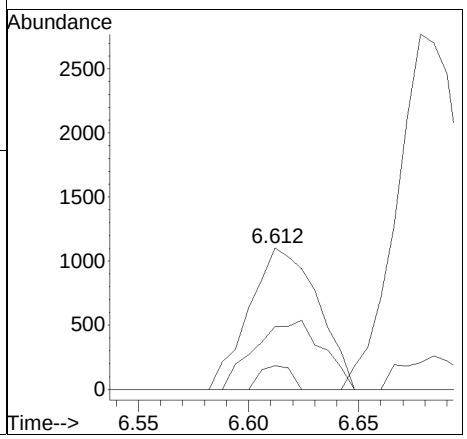


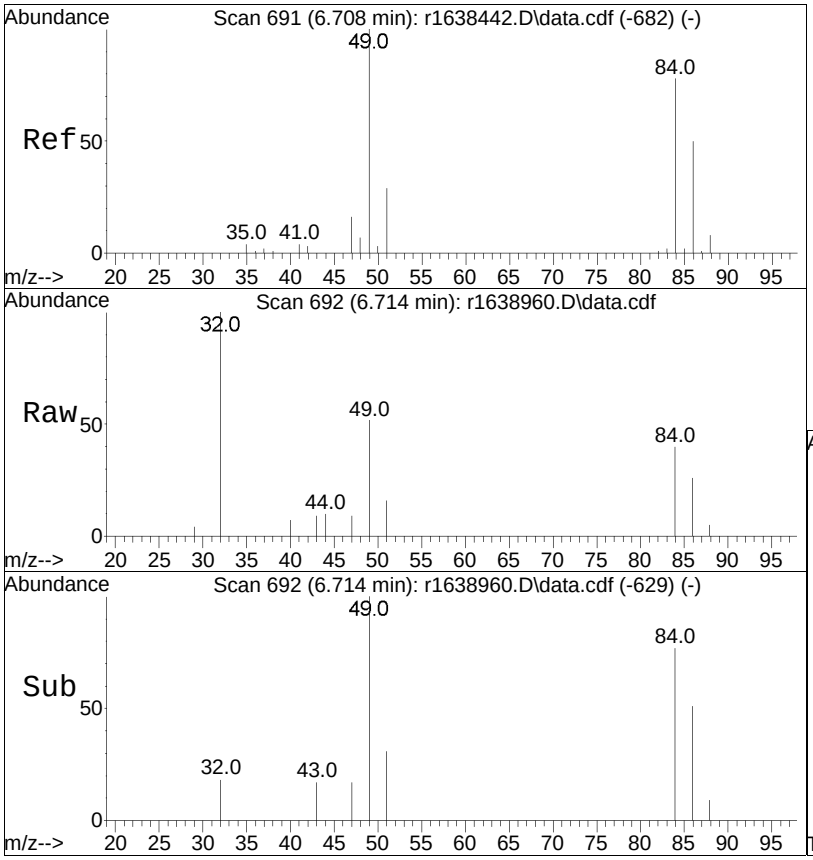


#27
tertiary butyl alcohol
Concen: 0.15 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 59 Resp: 2394

Ion	Ratio	Lower	Upper
59	100		
41	44.6	29.3	43.9#
43	16.8	10.1	15.1#

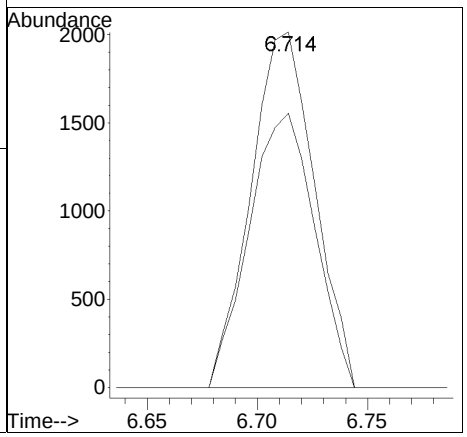


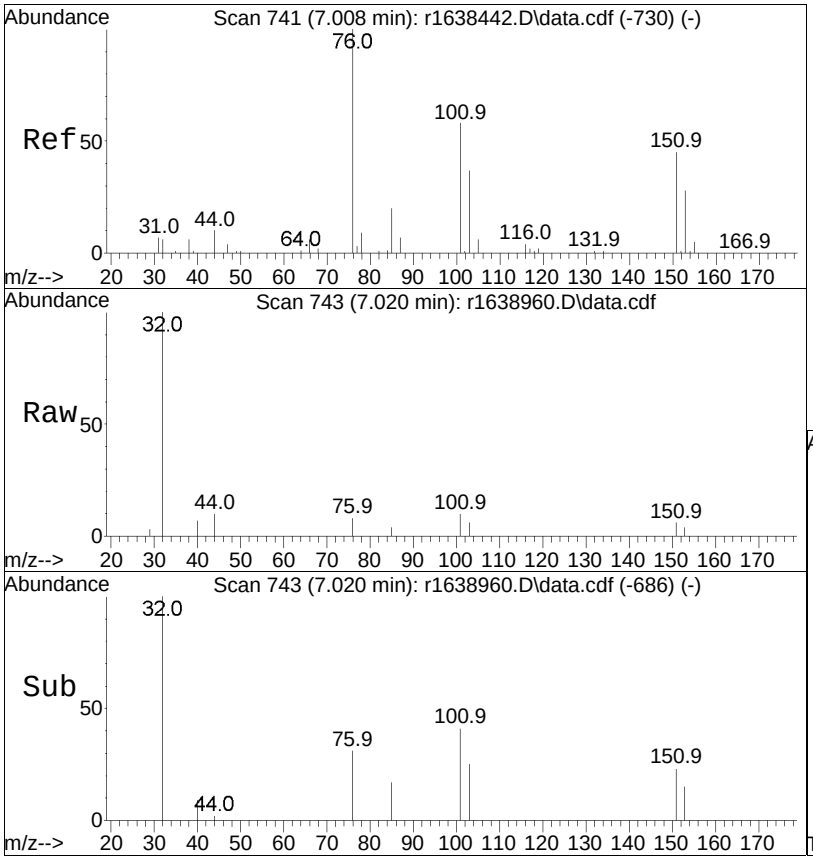


#28
methylene chloride
Concen: 0.33 ppbV
RT: 6.714 min Scan# 692
Delta R.T. 0.006 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 49 Resp: 4061

Ion	Ratio	Lower	Upper
49	100		
84	77.2	62.4	93.6

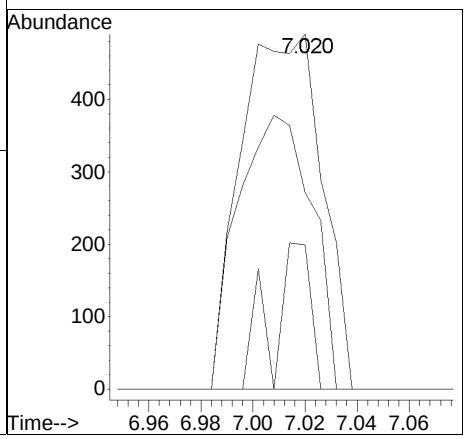


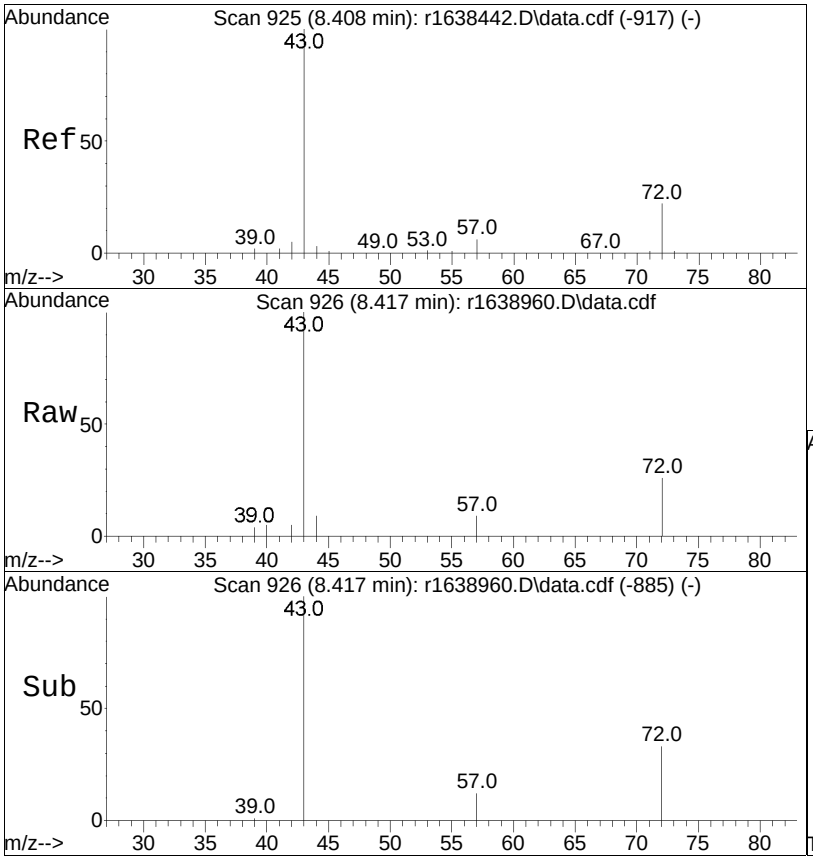


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.020 min Scan# 743
Delta R.T. 0.012 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:101 Resp: 1060

Ion	Ratio	Lower	Upper
101	100		
85	40.6	27.8	41.6
151	55.3	62.2	93.4#

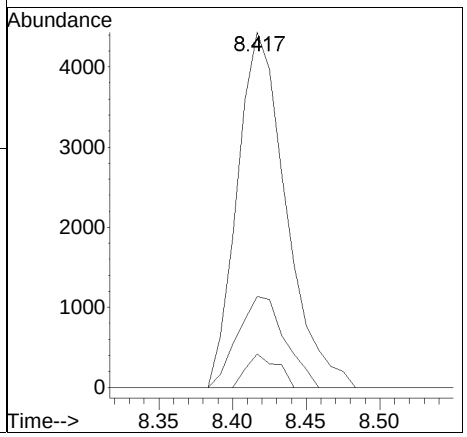


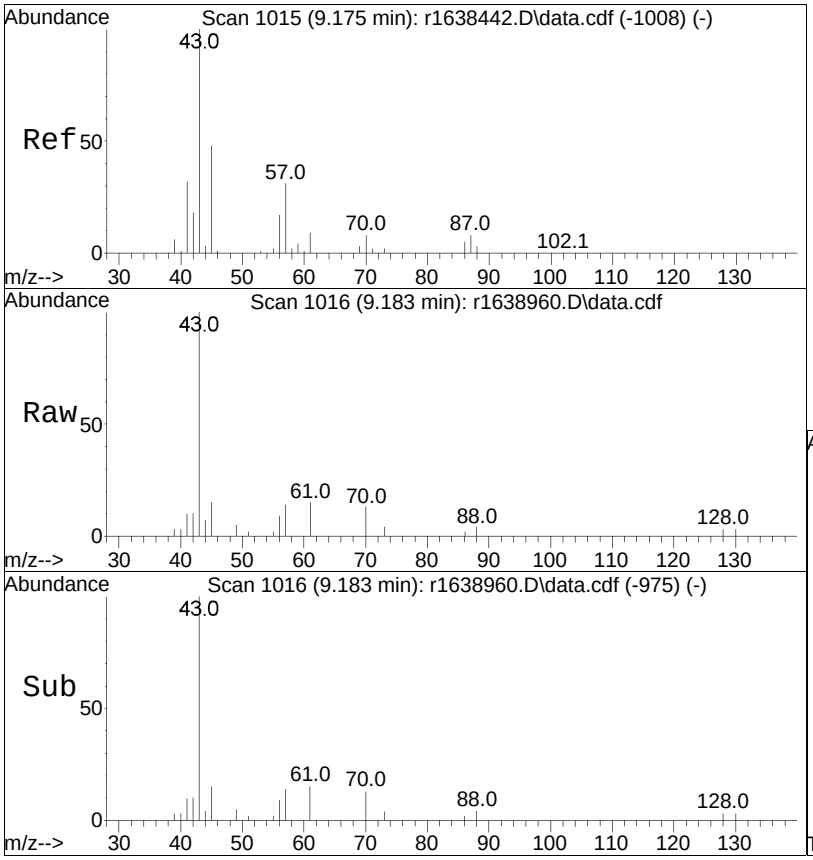


#36
2-butanone
Concen: 0.38 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 43 Resp: 10195

Ion	Ratio	Lower	Upper
43	100		
72	25.6	17.4	26.0
57	9.4	4.8	7.2#

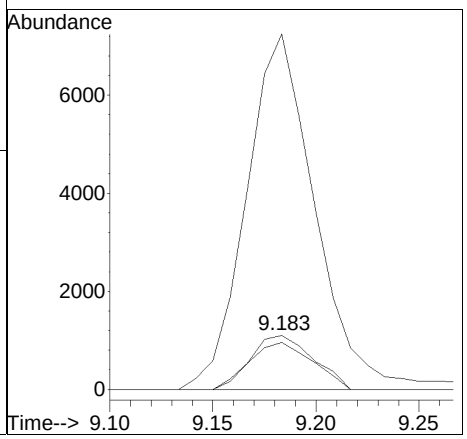


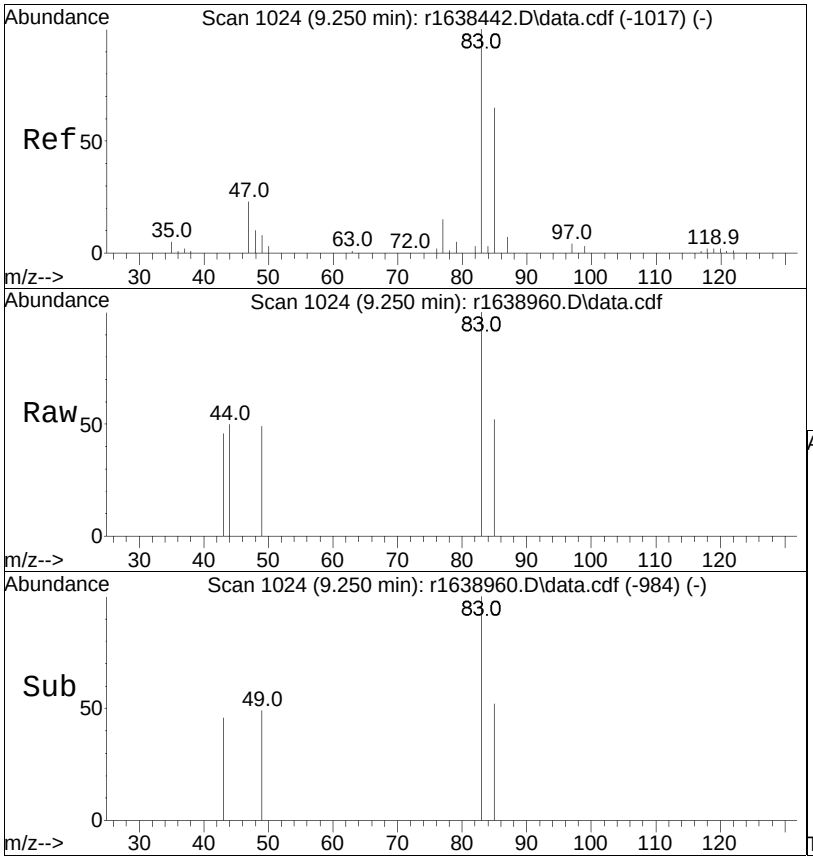


#38
Ethyl Acetate
Concen: 0.60 ppbV
RT: 9.183 min Scan# 1016
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 61 Resp: 2343

Ion	Ratio	Lower	Upper
61	100		
70	87.2	74.6	112.0
43	658.5	942.0	1413.0#

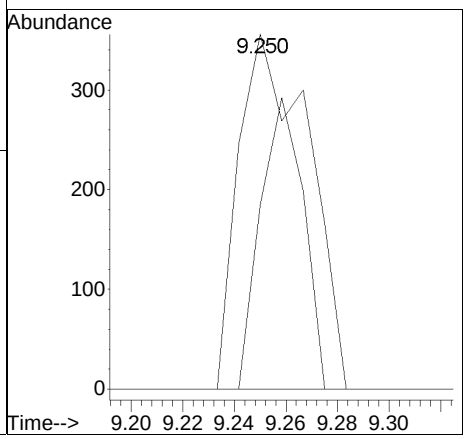


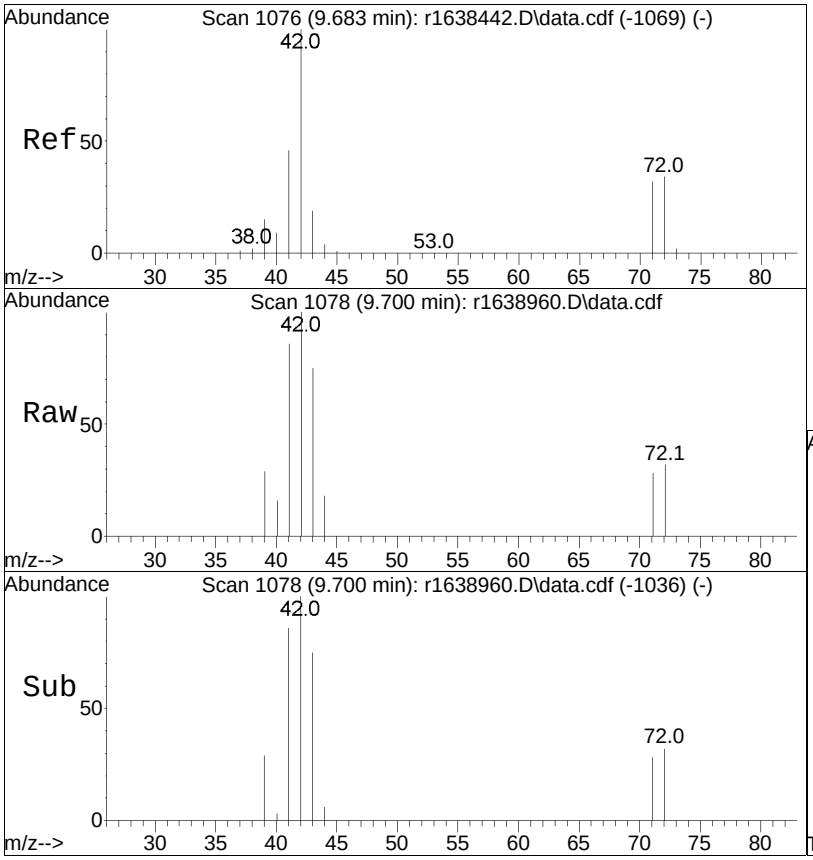


#39
chloroform
Concen: 0.04 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 83 Resp: 669

Ion	Ratio	Lower	Upper
83	100		
85	52.0	51.9	77.9
47	0.0	18.0	27.0#

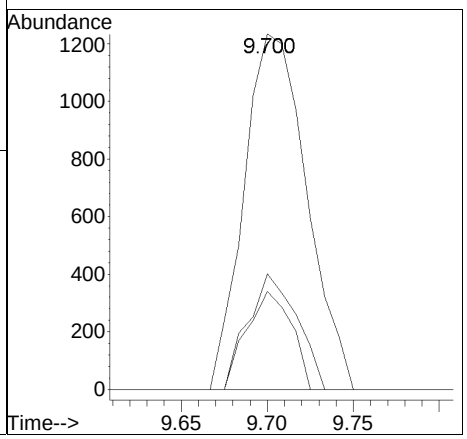


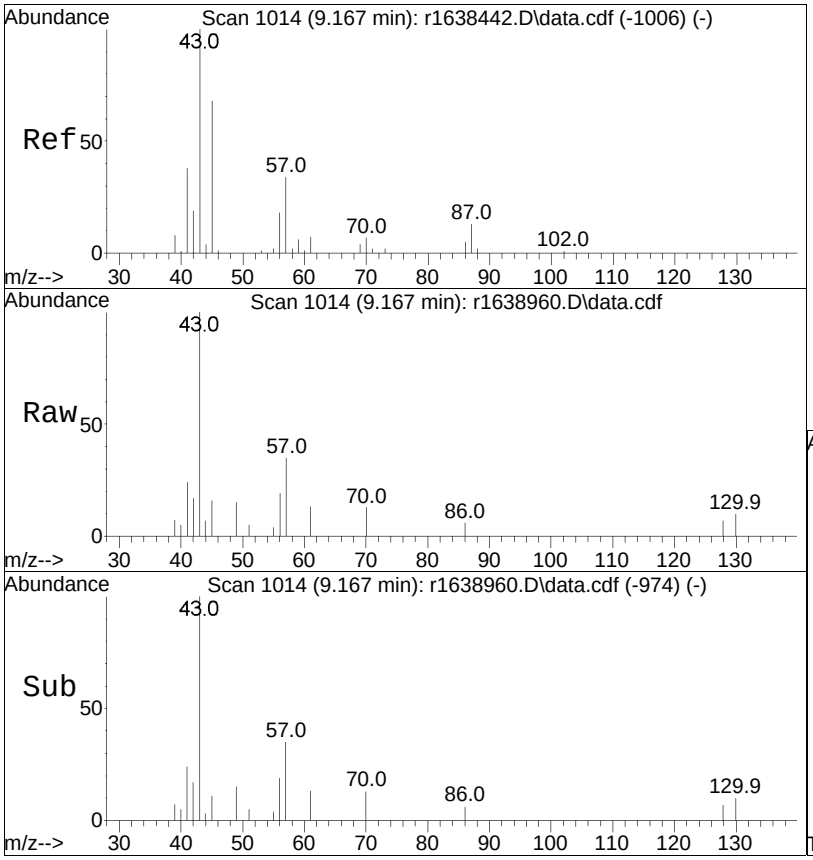


#40
Tetrahydrofuran
Concen: 0.18 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 42 Resp: 3132

Ion	Ratio	Lower	Upper
42	100		
71	27.6	25.6	38.4
72	32.5	27.4	41.2

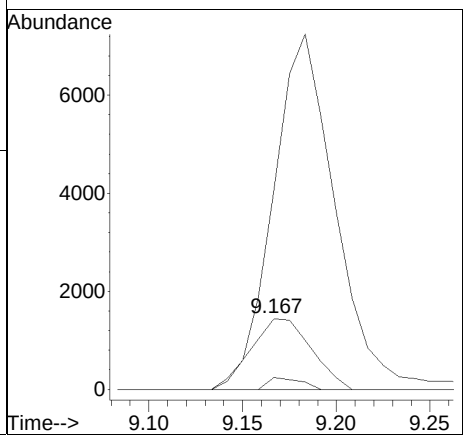


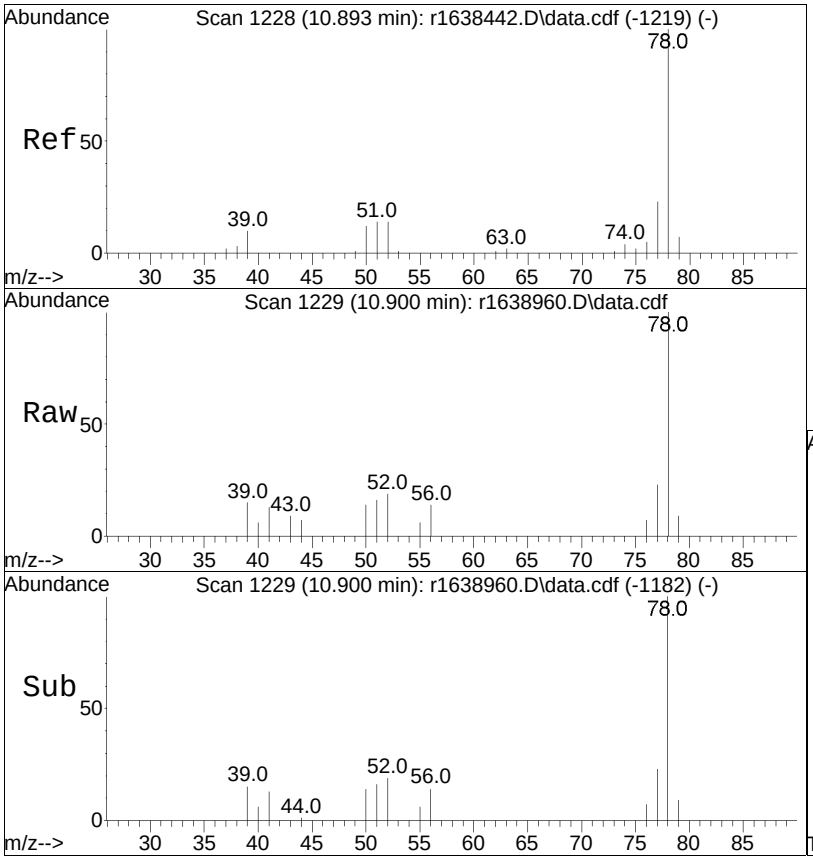


#44
hexane
Concen: 0.19 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 57 Resp: 3223

Ion	Ratio	Lower	Upper
57	100		
43	282.7	233.1	349.7
86	17.0	12.6	18.8

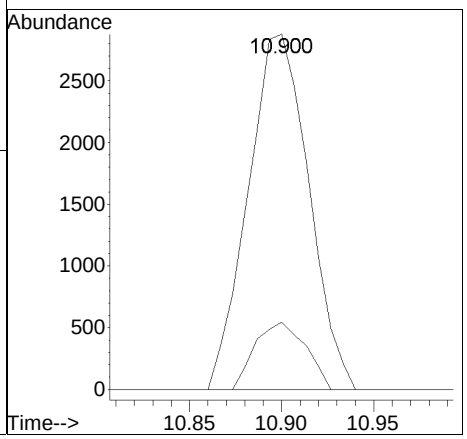


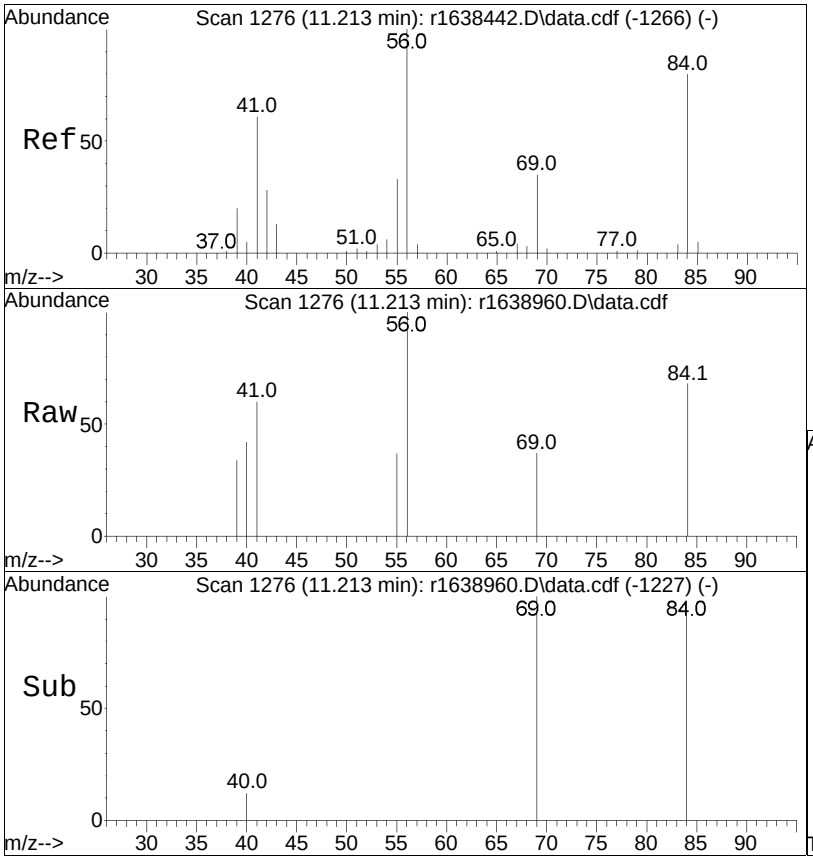


#50
benzene
Concen: 0.19 ppbV
RT: 10.900 min Scan# 1229
Delta R.T. 0.007 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 78 Resp: 6581

Ion	Ratio	Lower	Upper
78	100		
52	18.9	11.6	17.4#

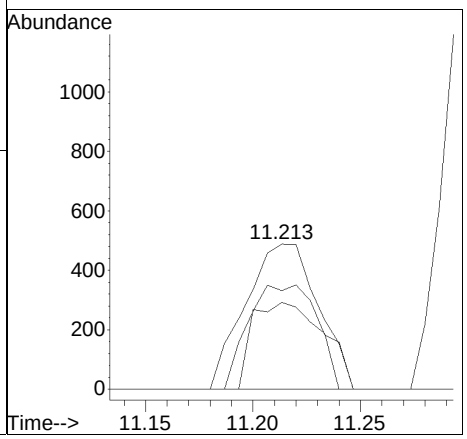


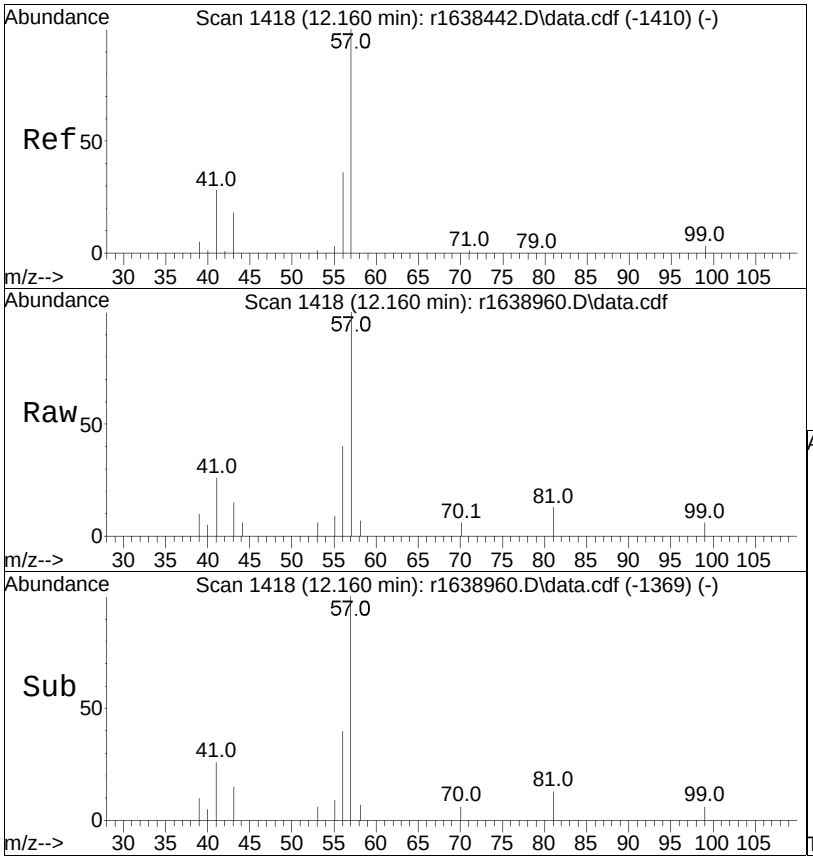


#53
cyclohexane
Concen: 0.06 ppbV
RT: 11.213 min Scan# 1276
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 56 Resp: 1154

Ion	Ratio	Lower	Upper
56	100		
84	68.0	64.2	96.4
41	59.8	48.8	73.2

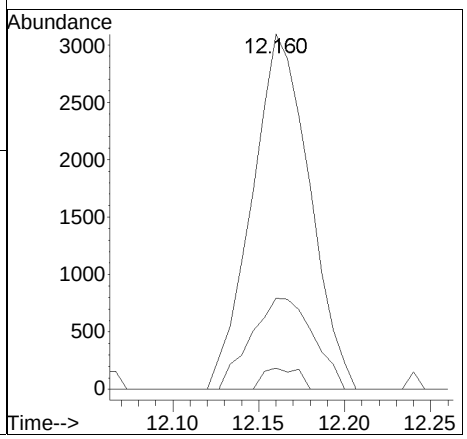


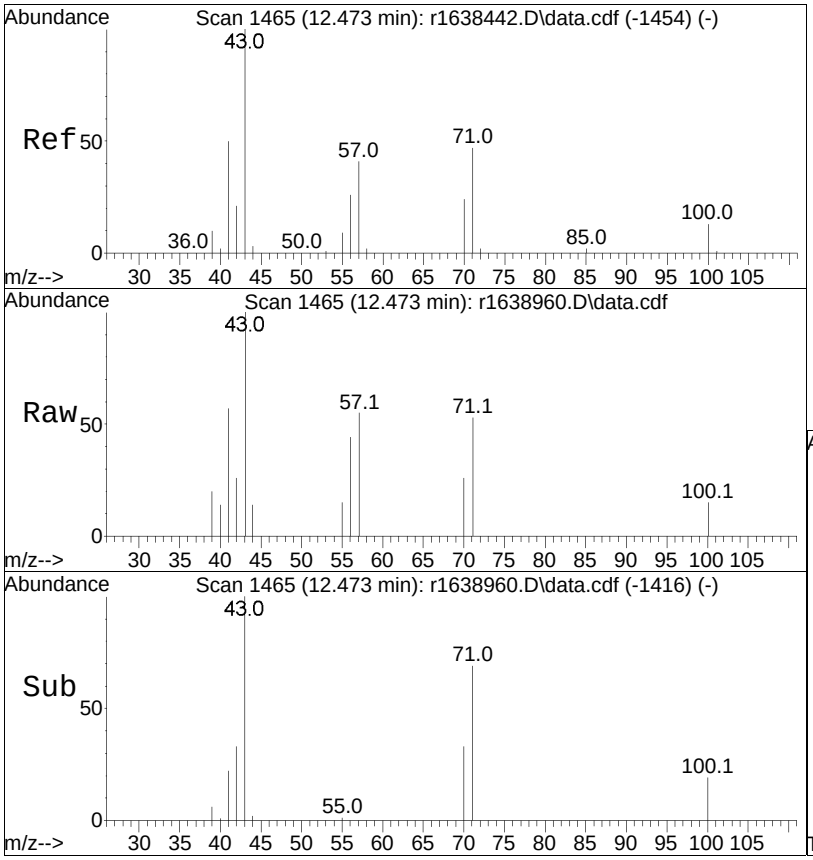


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 57 Resp: 7195

Ion	Ratio	Lower	Upper
57	100		
99	6.0	4.4	6.6
41	25.7	21.9	32.9

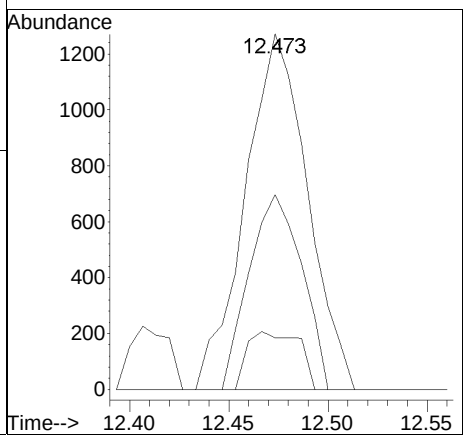


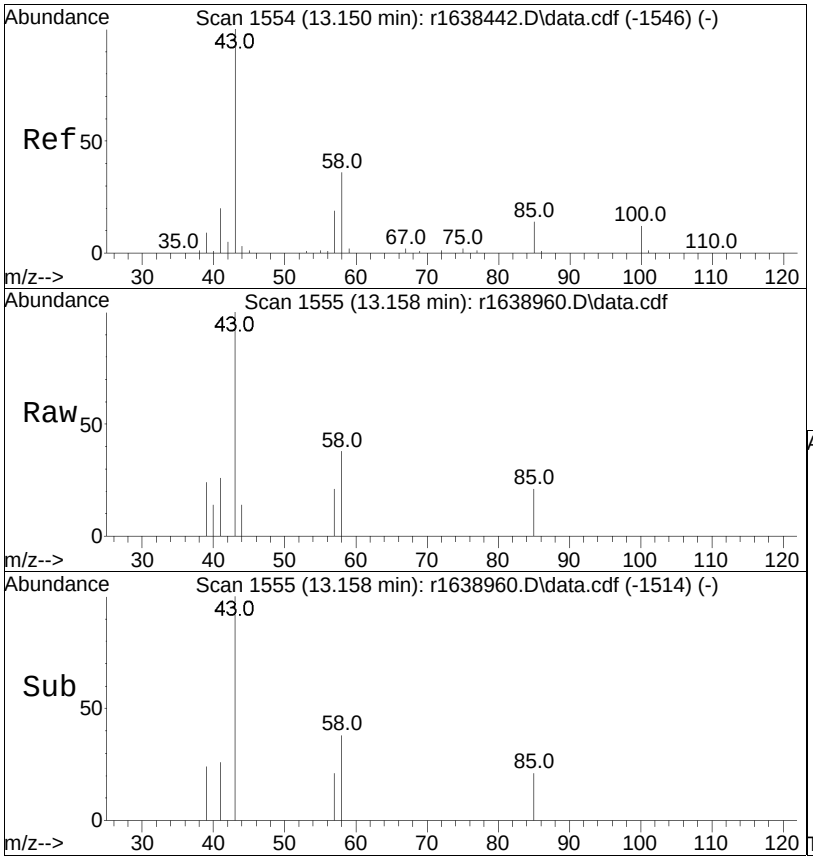


#62
heptane
Concen: 0.11 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 43 Resp: 2774

Ion	Ratio	Lower	Upper
43	100		
57	54.8	32.8	49.2#
100	14.6	10.9	16.3

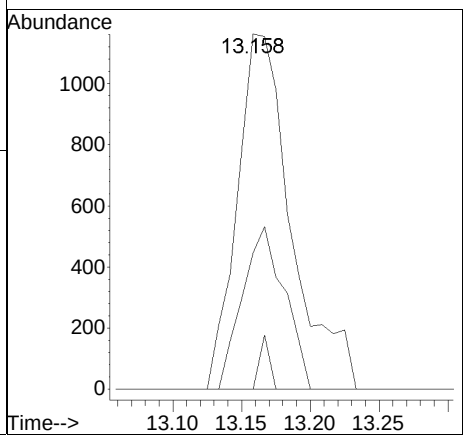


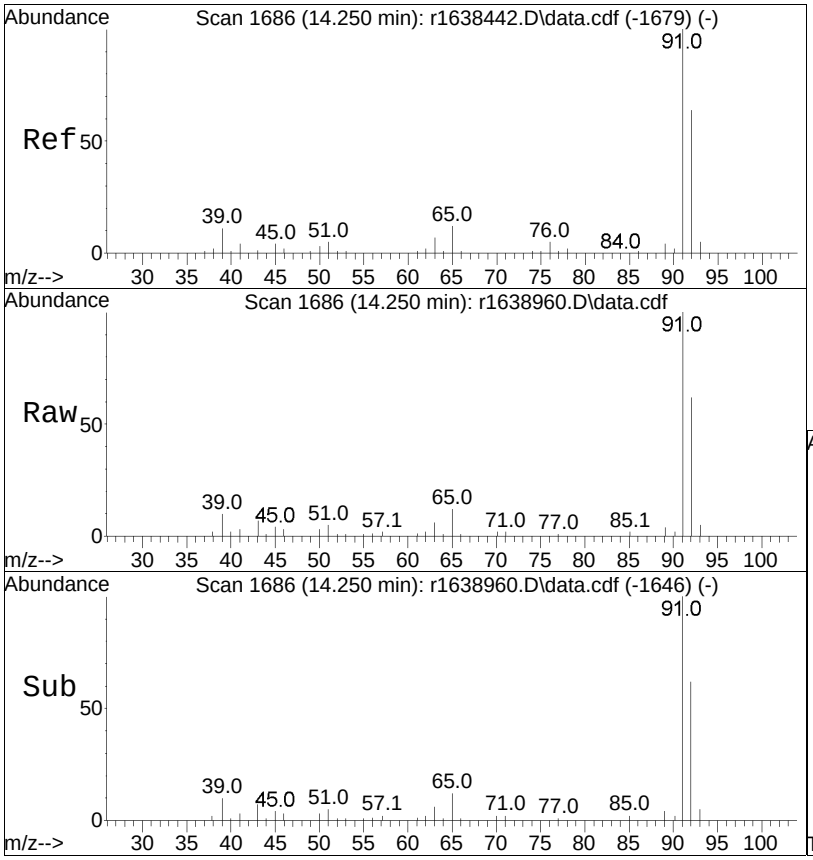


#64
4-methyl-2-pentanone
Concen: 0.11 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 43 Resp: 3200

Ion	Ratio	Lower	Upper
43	100		
58	38.4	28.6	43.0
100	0.0	9.9	14.9#

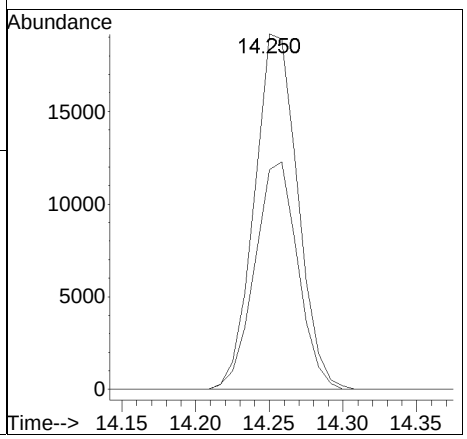


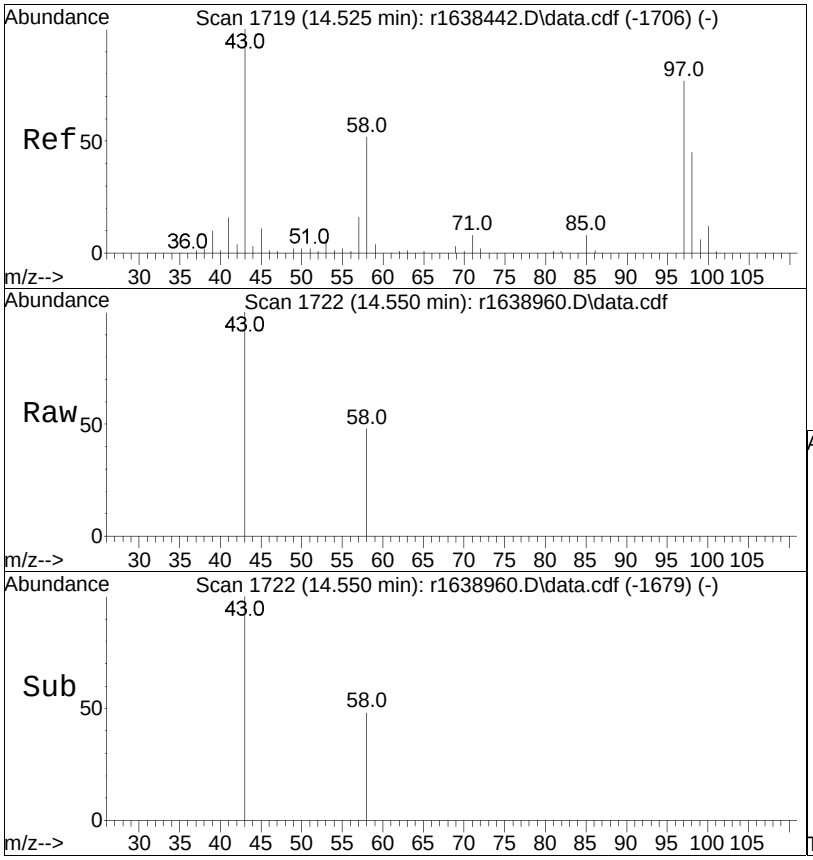


#68
toluene
Concen: 0.85 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 91 Resp: 39194

Ion	Ratio	Lower	Upper
91	100		
92	61.8	51.0	76.4

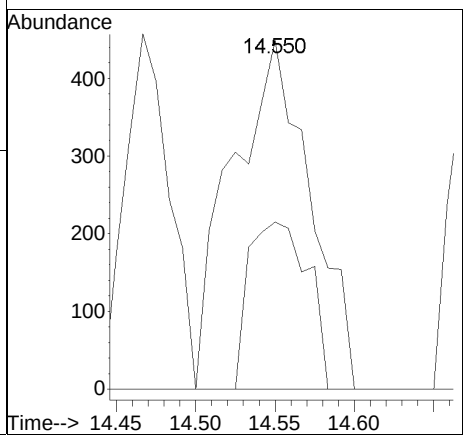


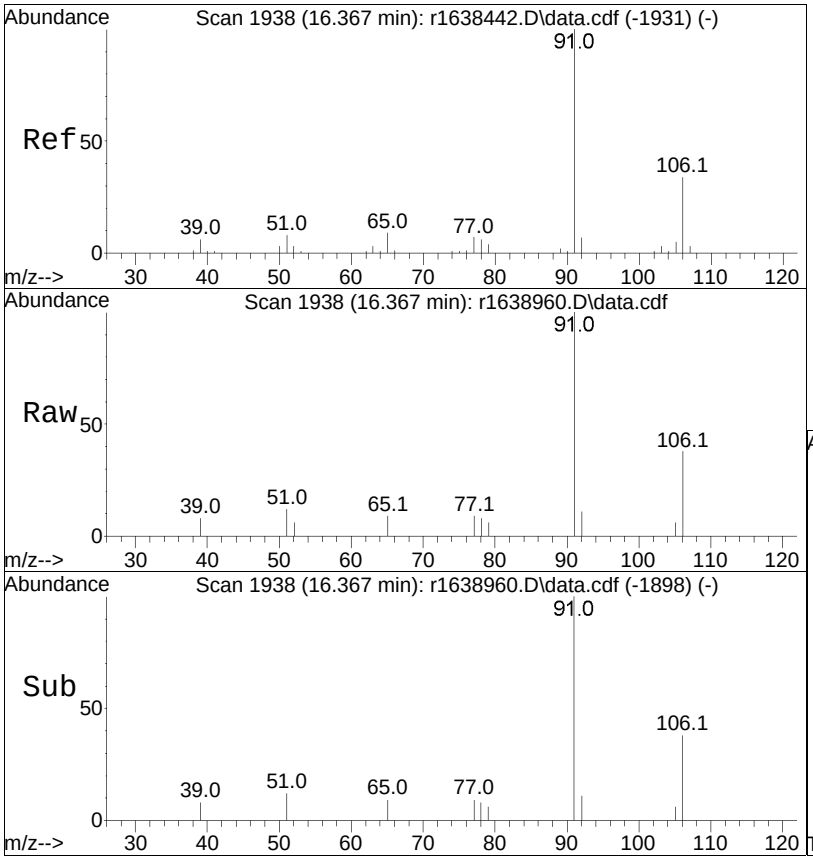


#72
2-hexanone
Concen: 0.05 ppbV
RT: 14.550 min Scan# 1722
Delta R.T. 0.025 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 43 Resp: 1546

Ion	Ratio	Lower	Upper
43	100		
58	47.9	41.4	62.2
100	0.0	9.3	13.9#

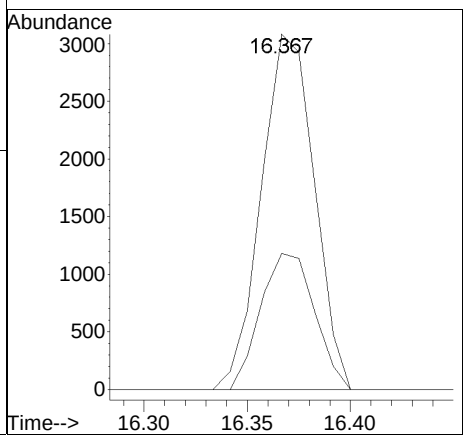


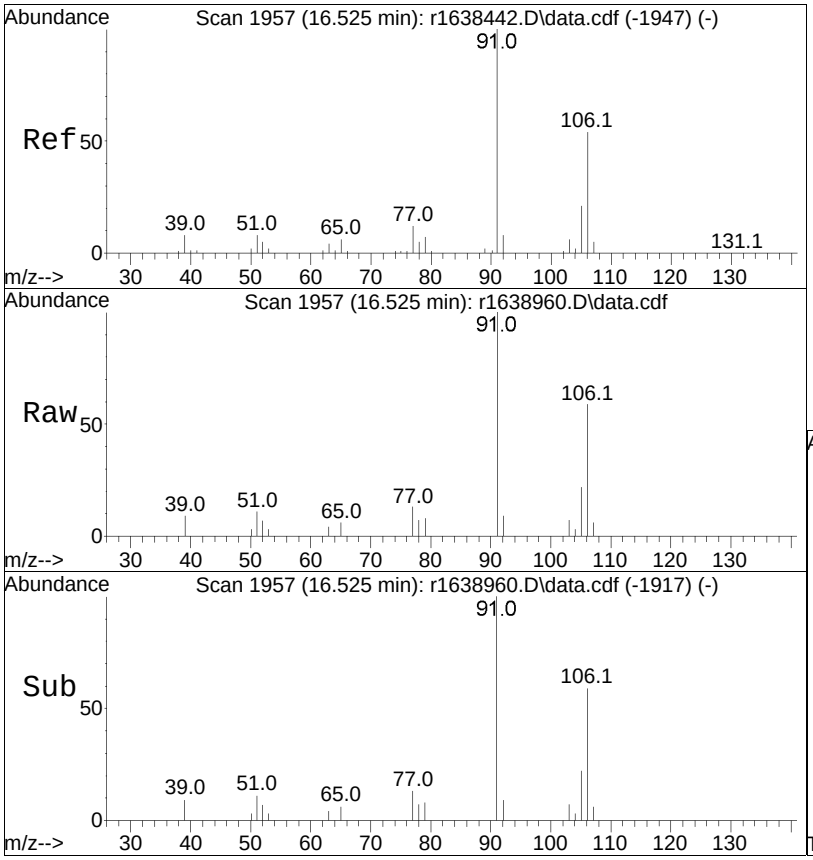


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 91 Resp: 5503

Ion	Ratio	Lower	Upper
91	100		
106	38.3	27.4	41.2

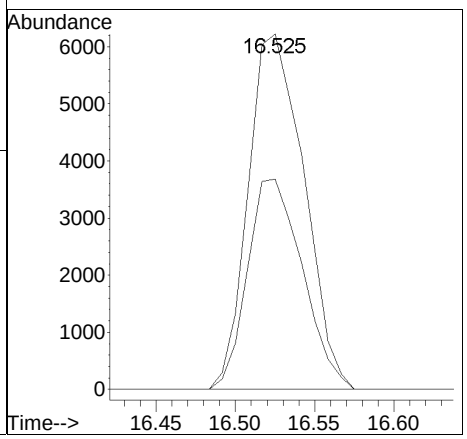


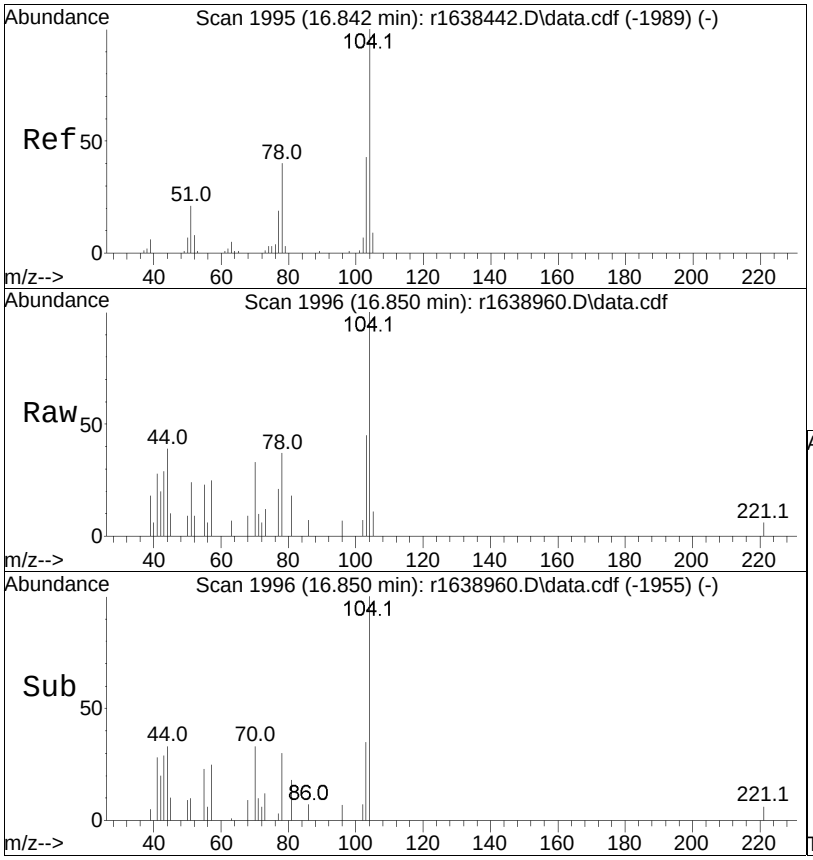


#83
m+p-xylene
Concen: 0.33 ppbV
RT: 16.525 min Scan# 1957
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 91 Resp: 15184

Ion	Ratio	Lower	Upper
91	100		
106	59.2	43.0	64.4

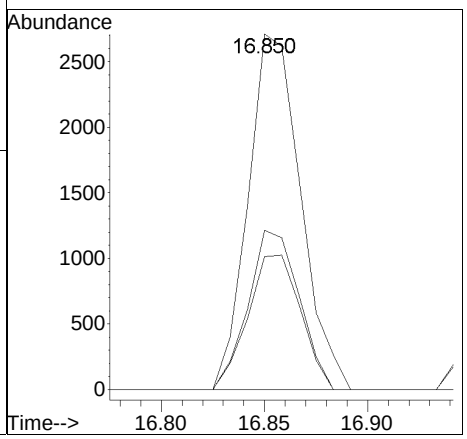


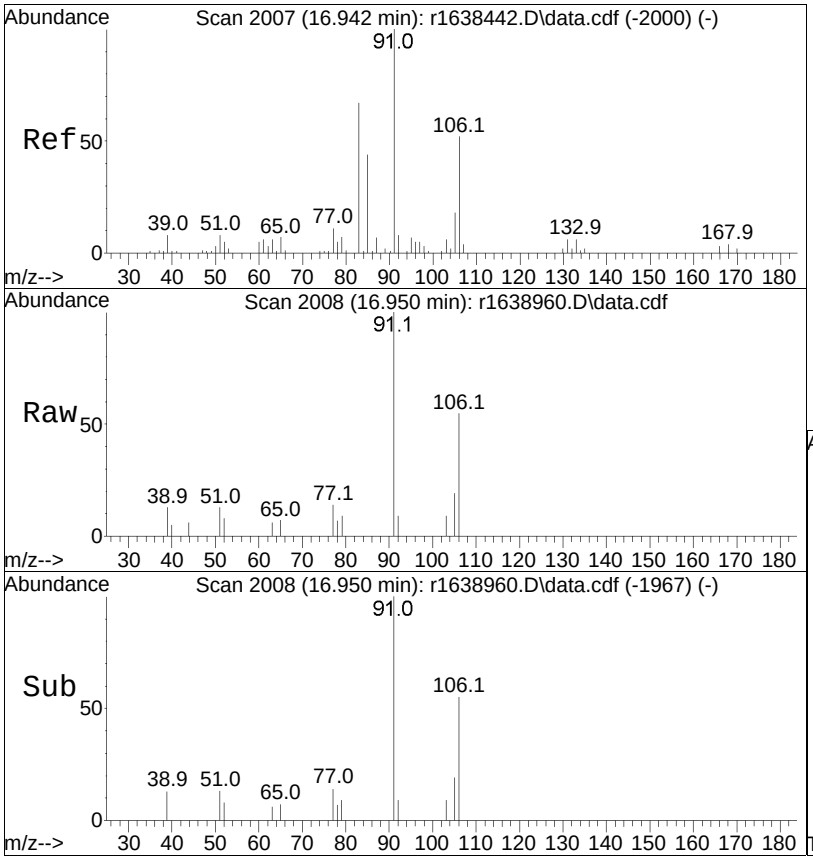


#85
styrene
Concen: 0.13 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:104 Resp: 4791

Ion	Ratio	Lower	Upper
104	100		
103	44.8	34.0	51.0
78	37.4	31.7	47.5

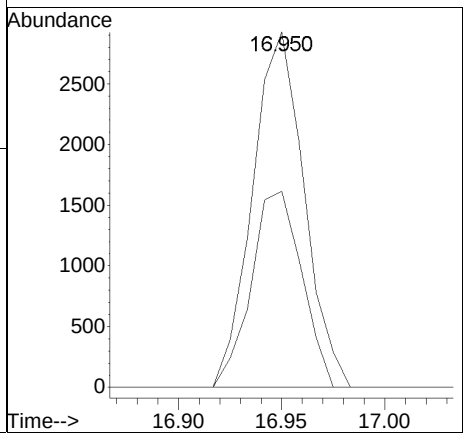


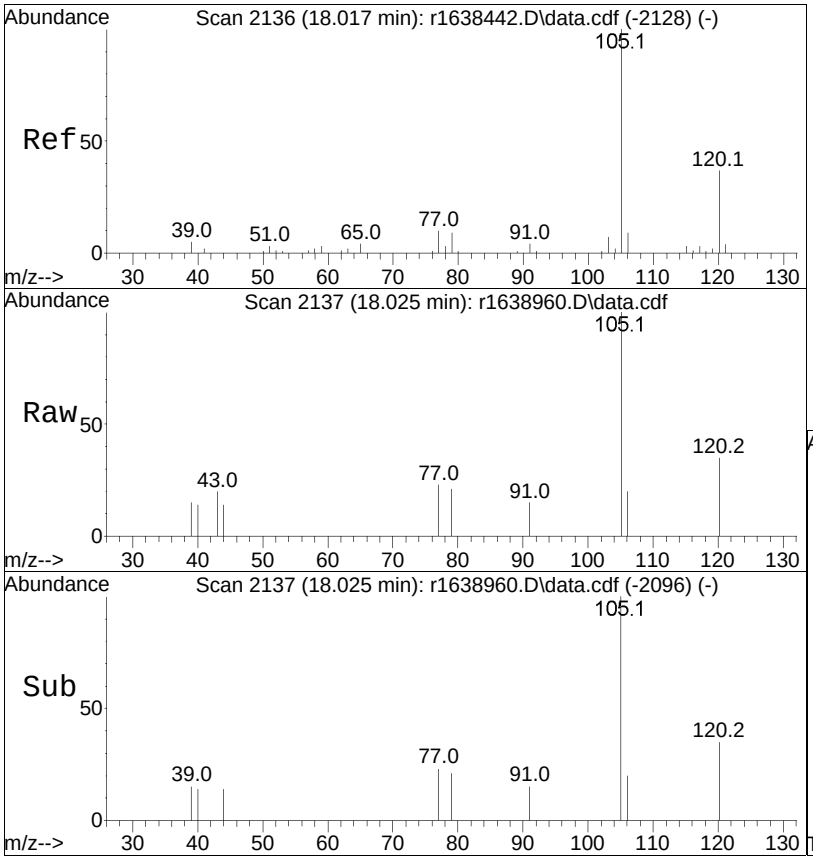


#87
o-xylene
Concen: 0.11 ppbV
RT: 16.950 min Scan# 2008
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 91 Resp: 5089

Ion	Ratio	Lower	Upper
91	100		
106	55.2	41.7	62.5

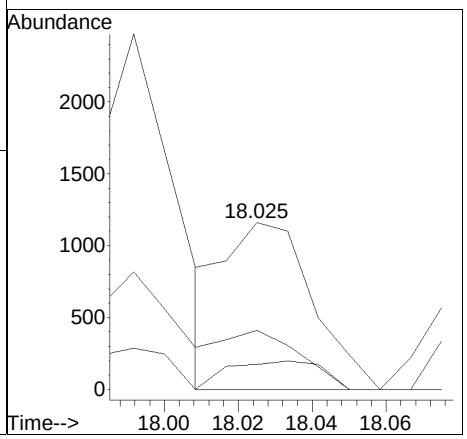


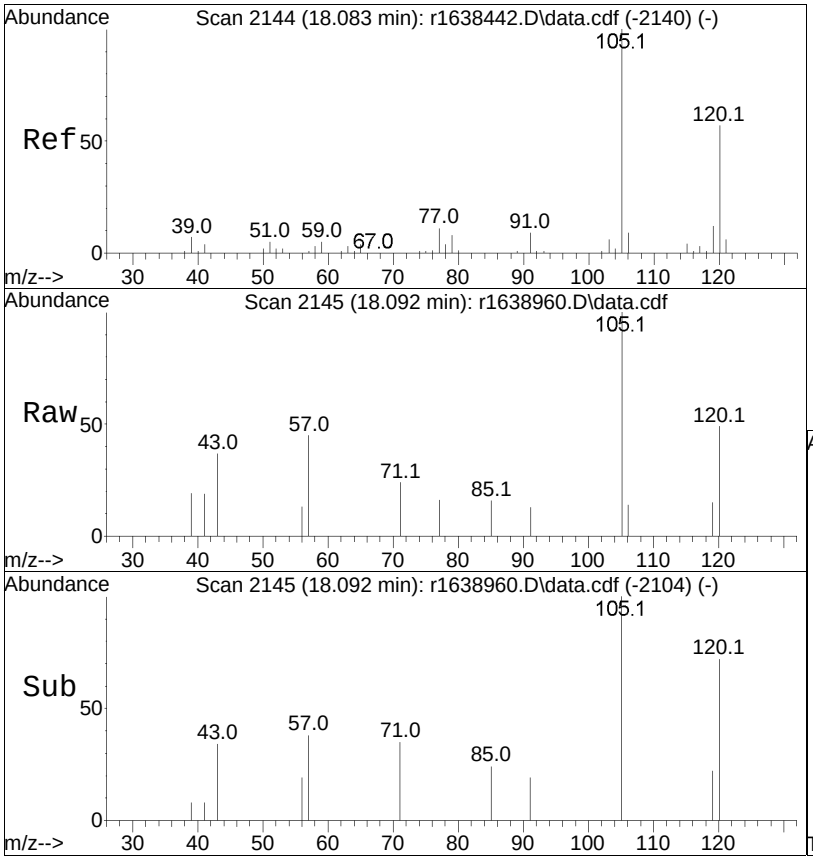


#96
4-ethyl toluene
Concen: 0.03 ppbV m
RT: 18.025 min Scan# 2137
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:105 Resp: 1947

Ion	Ratio	Lower	Upper
105	100		
120	35.4	29.7	44.5
91	15.0	7.9	11.9#

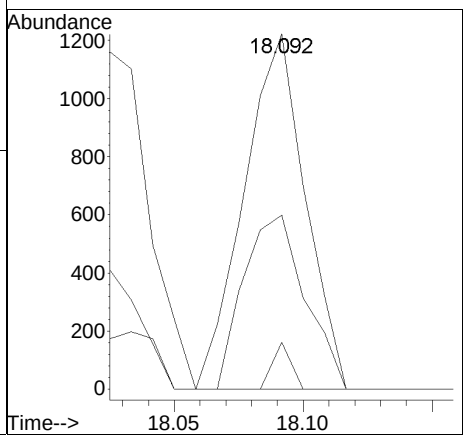


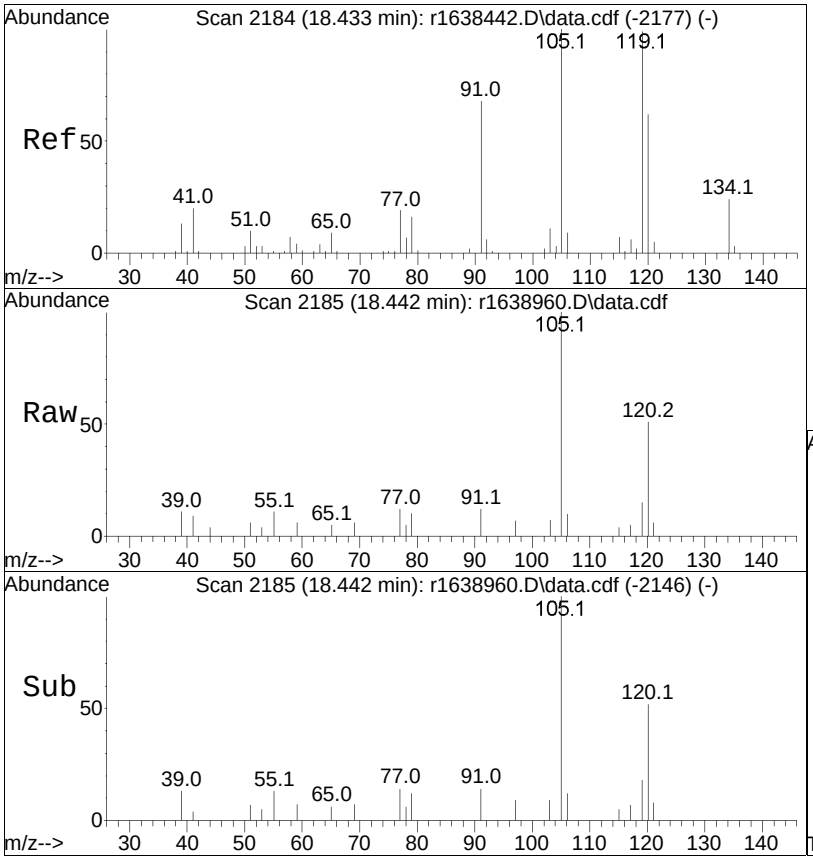


#97
1,3,5-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.092 min Scan# 2145
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:105 Resp: 2019

Ion	Ratio	Lower	Upper
105	100		
120	49.0	45.4	68.2
91	13.3	7.5	11.3#

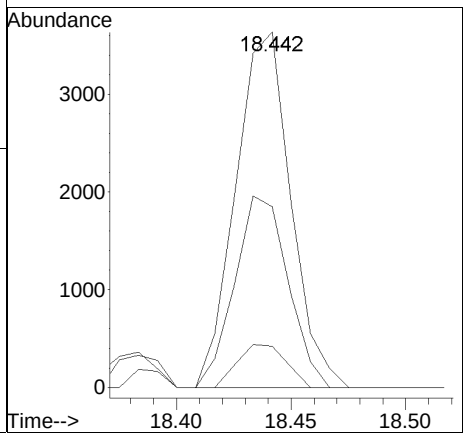


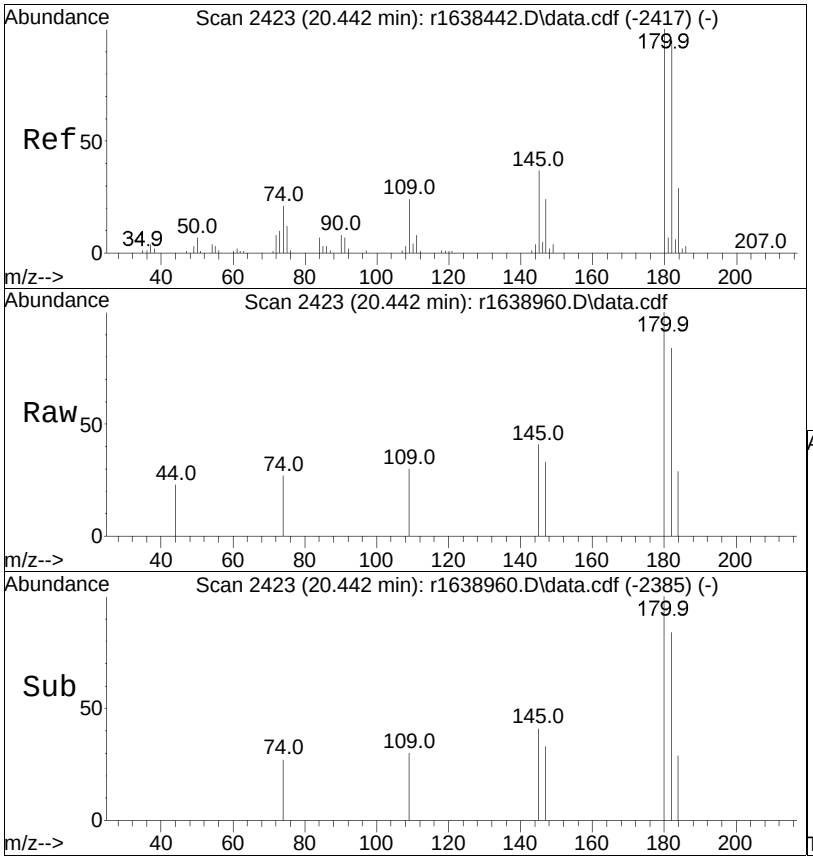


#99
1,2,4-trimethylbenzene
Concen: 0.12 ppbV
RT: 18.442 min Scan# 2185
Delta R.T. 0.008 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:105 Resp: 6082

Ion	Ratio	Lower	Upper
105	100		
120	50.9	49.9	74.9
91	11.6	54.0	81.0#

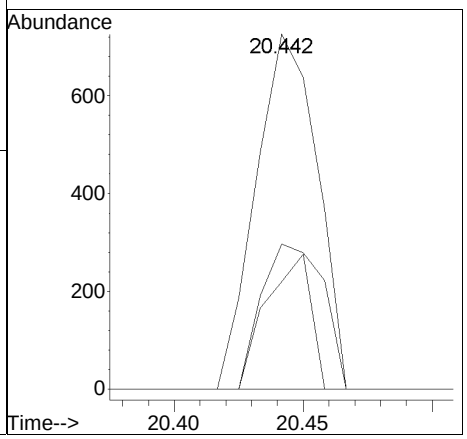




#115
1,2,4-trichlorobenzene
Concen: 0.05 ppbV
RT: 20.442 min Scan# 2423
Delta R.T. 0.000 min
Lab File: r1638960.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:180 Resp: 1200

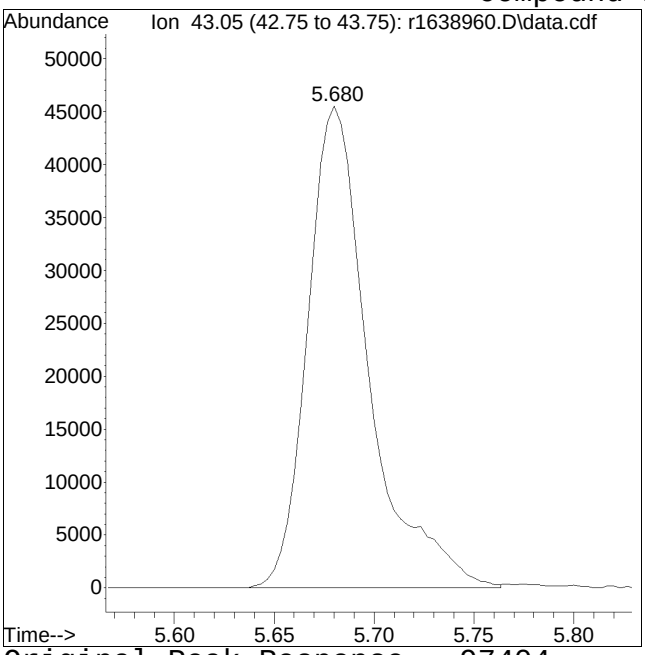
Ion	Ratio	Lower	Upper
180	100		
145	40.9	29.8	44.6
109	30.3	19.2	28.8#



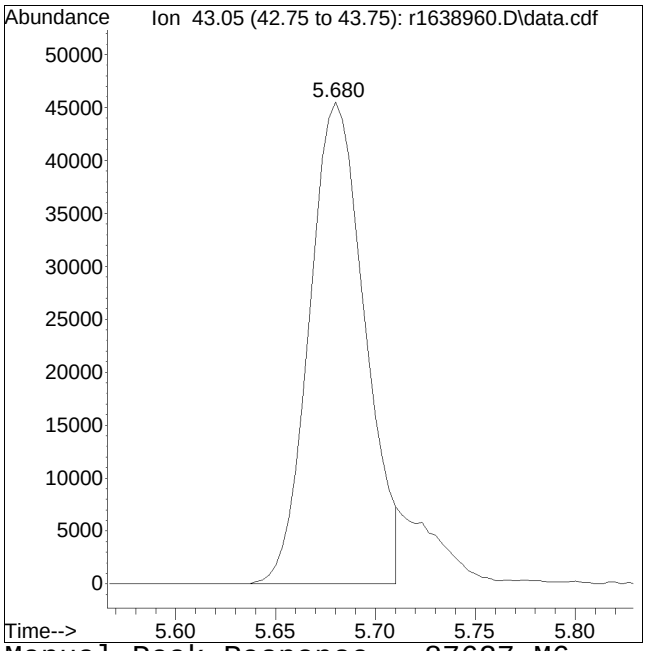
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638960.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:5: 0 Instrument :
Sample : L2347540-01,3,250,250 Quant Date : 8/23/2023 6:29 am

Compound #19: acetone



Original Peak Response = 97404



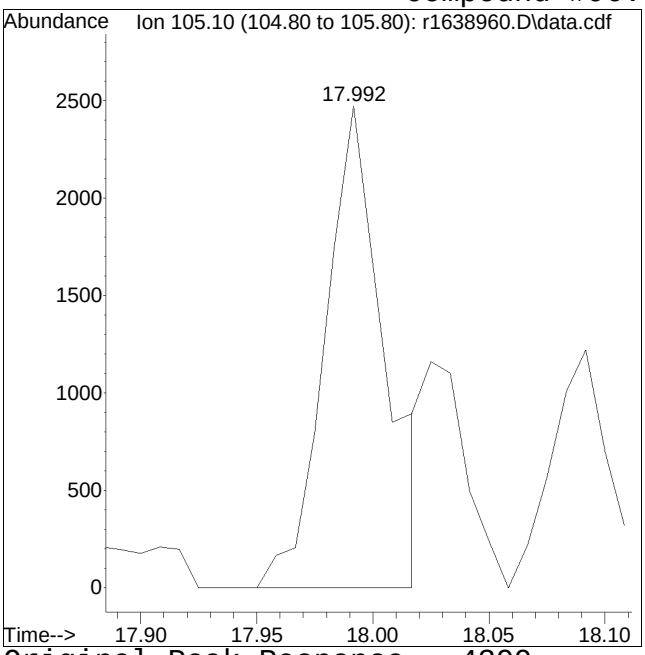
Manual Peak Response = 87627 M6

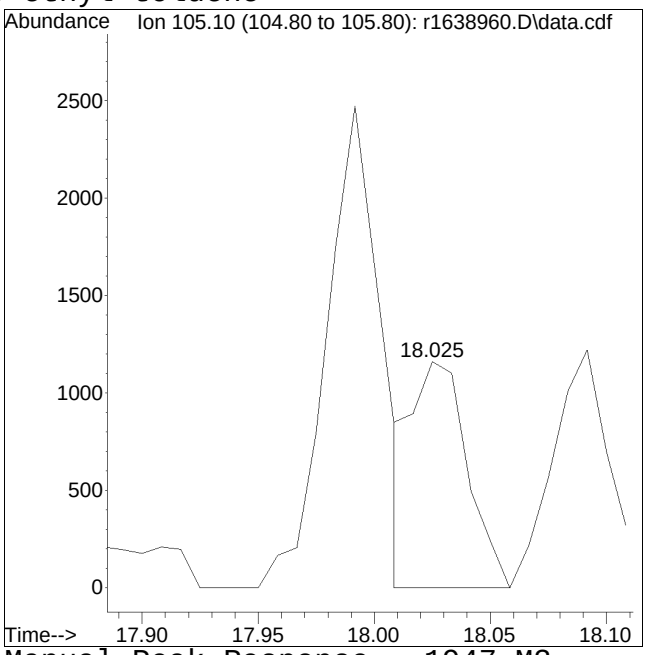
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638960.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:5: 0 Instrument :
Sample : L2347540-01,3,250,250 Quant Date : 8/23/2023 6:29 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4399 Manual Peak Response = 1947 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638961.D
Acq On : 22 Aug 2023 6:30 PM
Operator : AIRLAB16:APR
Sample : L2347540-02,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:08 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	209978	10.000	ppbV	0.00
Standard Area = 214255			Recovery =	98.00%		
43) 1,4-difluorobenzene	11.313	114	625823	10.000	ppbV	0.00
Standard Area = 667571			Recovery =	93.75%		
67) chlorobenzene-D5	15.992	54	79861	10.000	ppbV	0.00
Standard Area = 82563			Recovery =	96.73%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.036	85	7204	0.463	ppbV	96
6) chloromethane	4.198	50	4311	0.491	ppbV	94
7) Freon-114	4.294		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.164	31	380899	68.780	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.680	43	91508M6	8.189	ppbV	
21) trichlorofluoromethane	5.873	101	2283	0.208	ppbV	93
22) isopropyl alcohol	5.953	45	49118	3.040	ppbV #	96
27) tertiary butyl alcohol	6.618	59	1425	0.091	ppbV #	79
28) methylene chloride	6.708	49	4304	0.359	ppbV	98
29) 3-chloropropene	6.708		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	7.008	101	1011	0.051	ppbV	93
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	8.417	43	9399	0.355	ppbV #	86
38) Ethyl Acetate	9.183	61	2530	0.662	ppbV	88
39) chloroform	9.250	83	547	0.032	ppbV #	79
40) Tetrahydrofuran	9.700	42	6208	0.369	ppbV	98
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	30649	1.862	ppbV #	1
50) benzene	10.900	78	6331	0.187	ppbV #	90
53) cyclohexane	11.213	56	1143	0.065	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638961.D
Acq On : 22 Aug 2023 6:30 PM
Operator : AIRLAB16:APR
Sample : L2347540-02,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:08 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

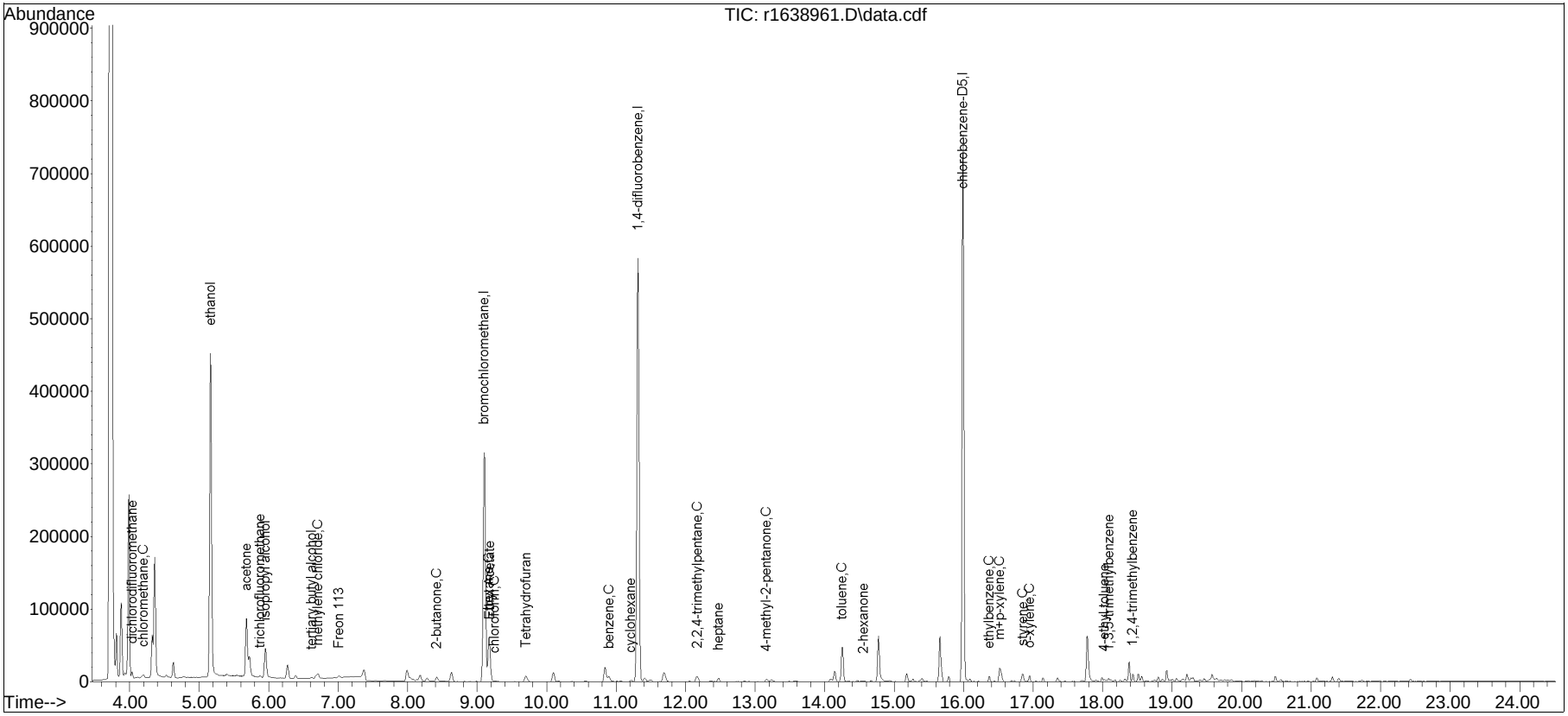
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.167	57	7260	0.135	ppbV #	95
62) heptane	12.473	43	2399	0.095	ppbV #	79
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	3307	0.113	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	39021	0.868	ppbV	99
72) 2-hexanone	14.558	43	1183	0.040	ppbV #	90
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.367	91	5705	0.101	ppbV	99
83) m+p-xylene	16.517	91	15734	0.355	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	16.850	104	3514	0.095	ppbV	95
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.950	91	5160	0.116	ppbV	94
96) 4-ethyl toluene	18.025	105	2095M3	0.034	ppbV	
97) 1,3,5-trimethylbenzene	18.092	105	1972	0.037	ppbV #	89
99) 1,2,4-trimethylbenzene	18.433	105	5497	0.107	ppbV #	59
101) Benzyl Chloride	18.442		0	N.D.		
102) 1,3-dichlorobenzene	18.633		0	N.D.		
103) 1,4-dichlorobenzene	18.633		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

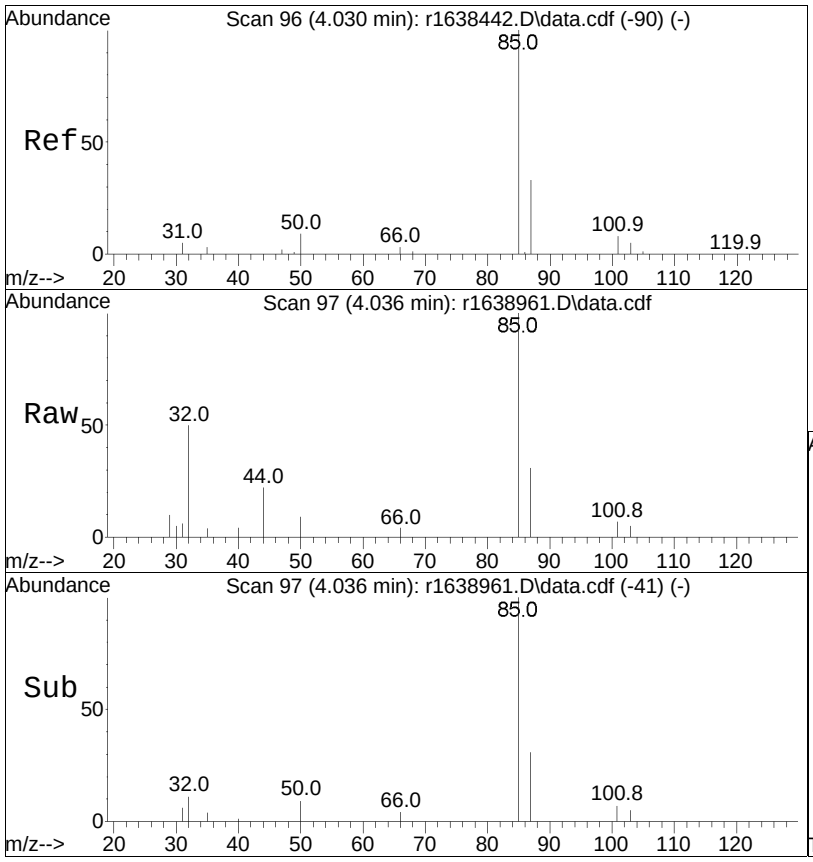
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638961.D
Acq On : 22 Aug 2023 6:30 PM
Operator : AIRLAB16:APR
Sample : L2347540-02,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:08 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

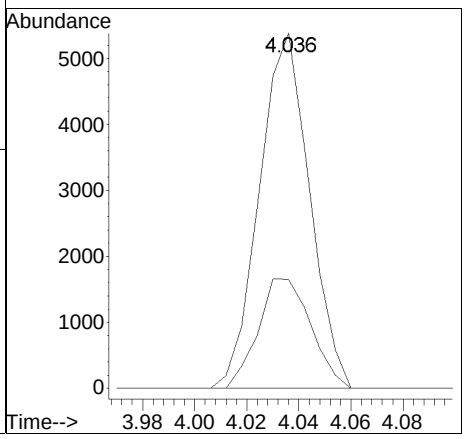


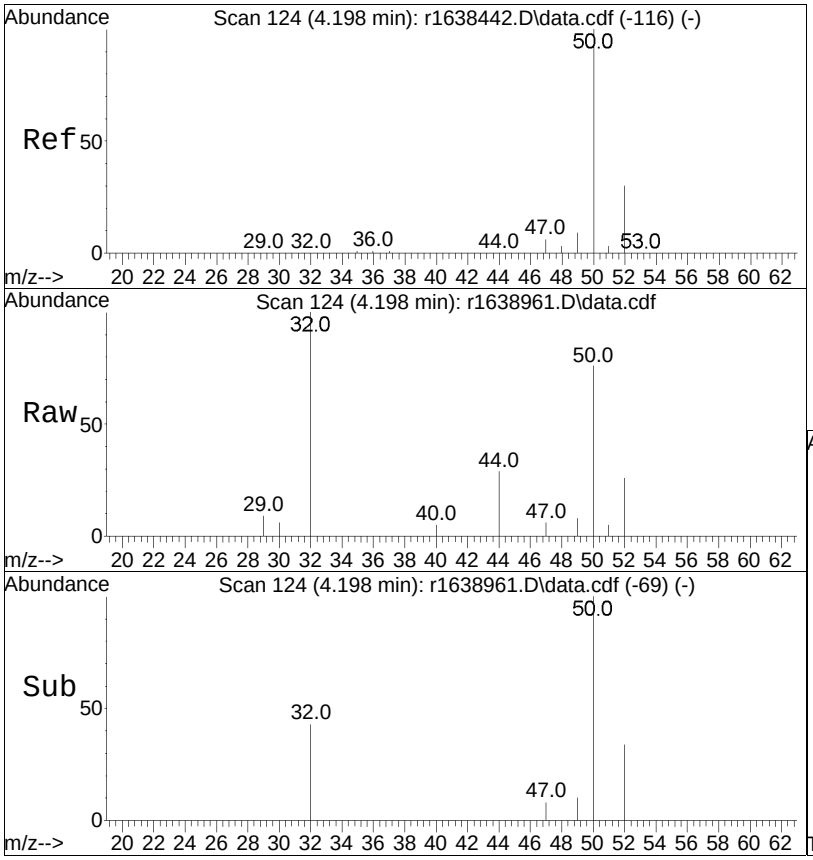


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.036 min Scan# 97
Delta R.T. 0.006 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 85 Resp: 7204

Ion	Ratio	Lower	Upper
85	100		
87	30.7	26.2	39.2

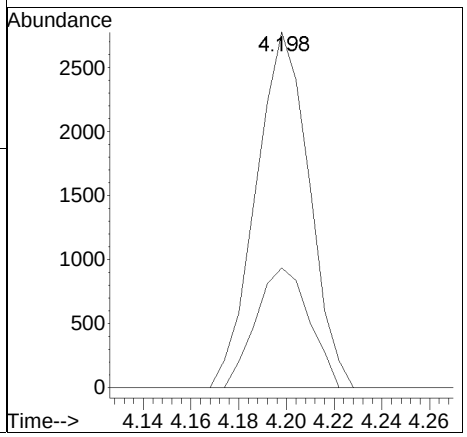


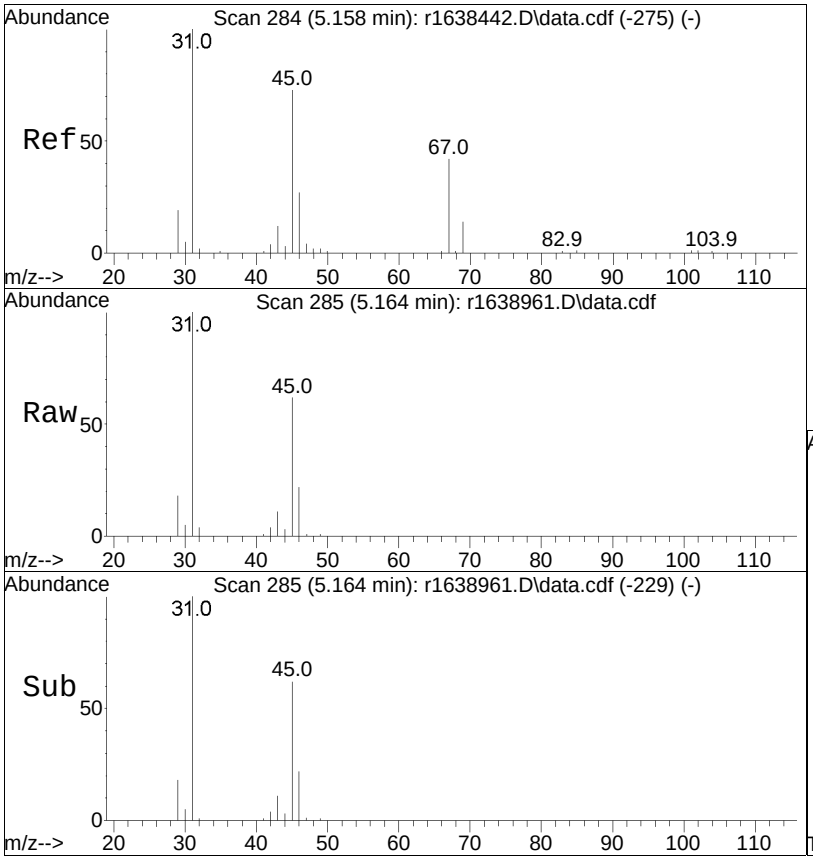


#6
chloromethane
Concen: 0.49 ppbV
RT: 4.198 min Scan# 124
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 50 Resp: 4311

Ion	Ratio	Lower	Upper
50	100		
52	33.6	24.3	36.5

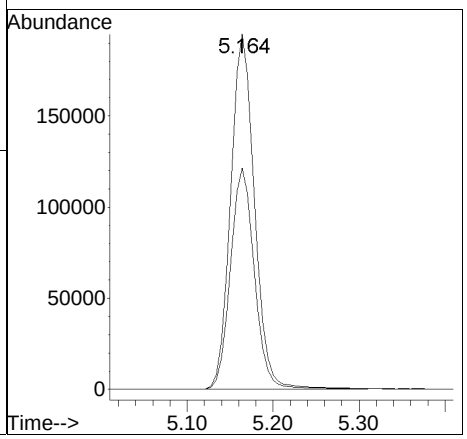


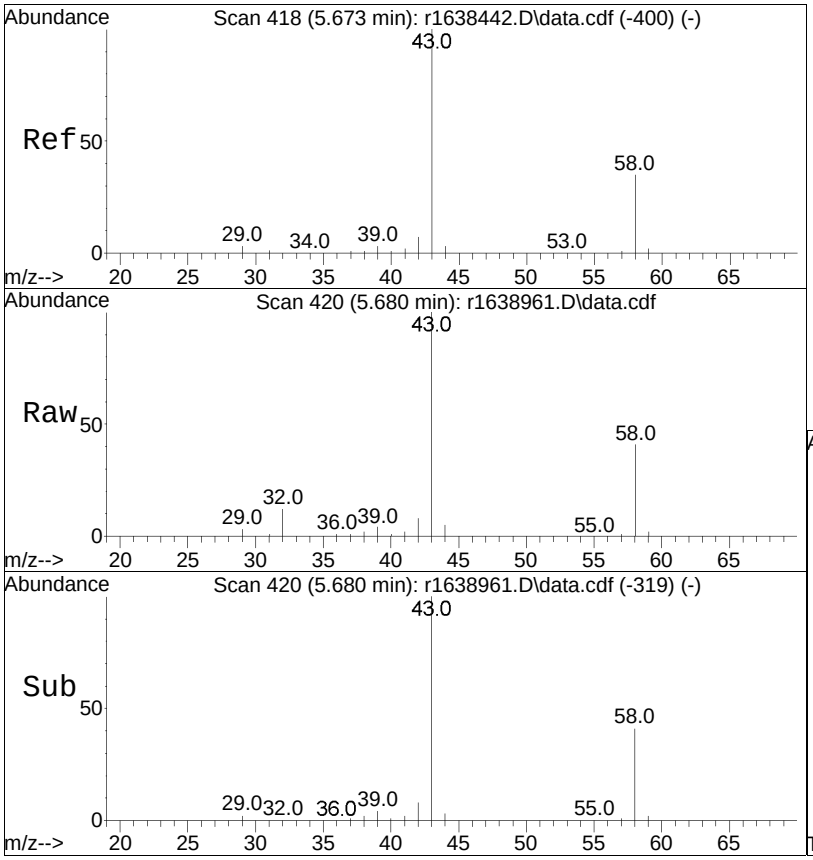


#15
ethanol
Concen: 68.78 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.006 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 31 Resp: 380899

Ion	Ratio	Lower	Upper
31	100		
45	62.3	58.6	87.8

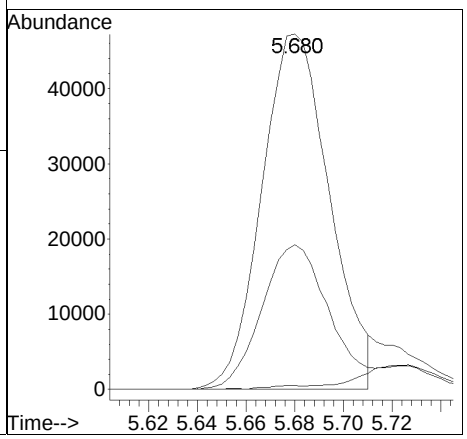


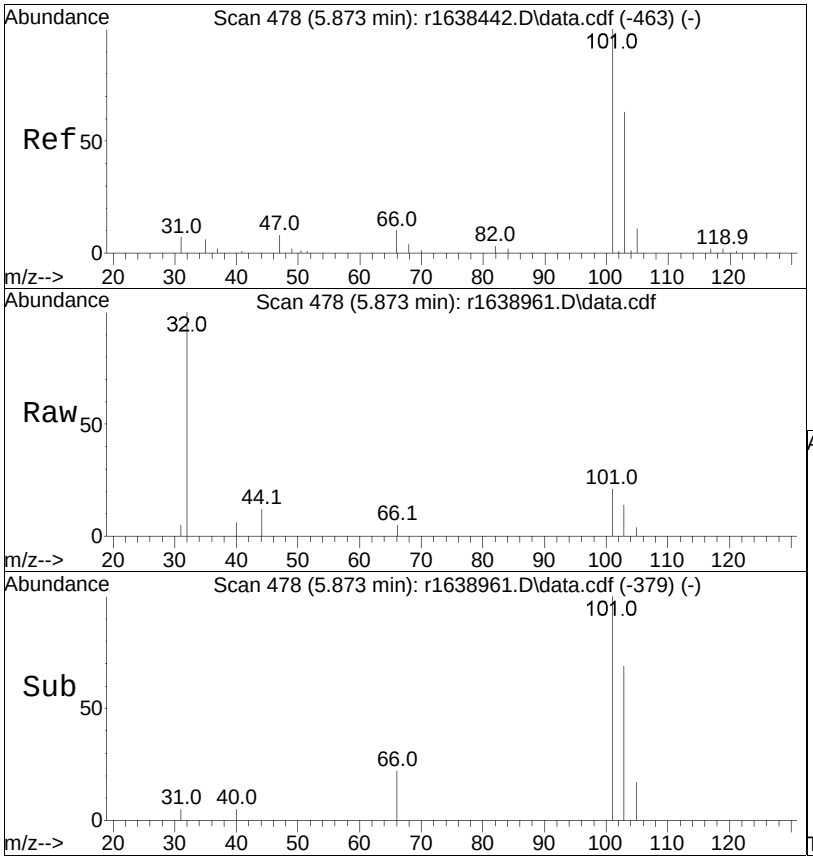


#19
acetone
Concen: 8.19 ppbV m
RT: 5.680 min Scan# 420
Delta R.T. 0.007 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 43 Resp: 91508

Ion	Ratio	Lower	Upper
43	100		
58	40.7	28.3	42.5
57	1.1	0.6	1.0#

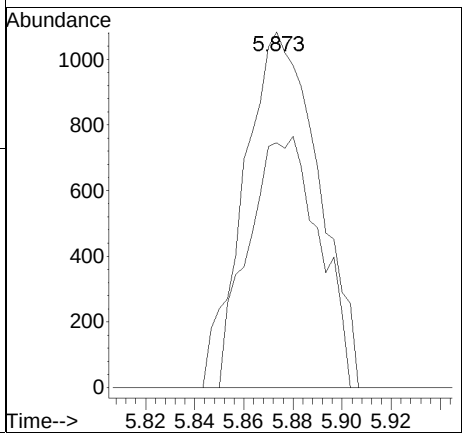


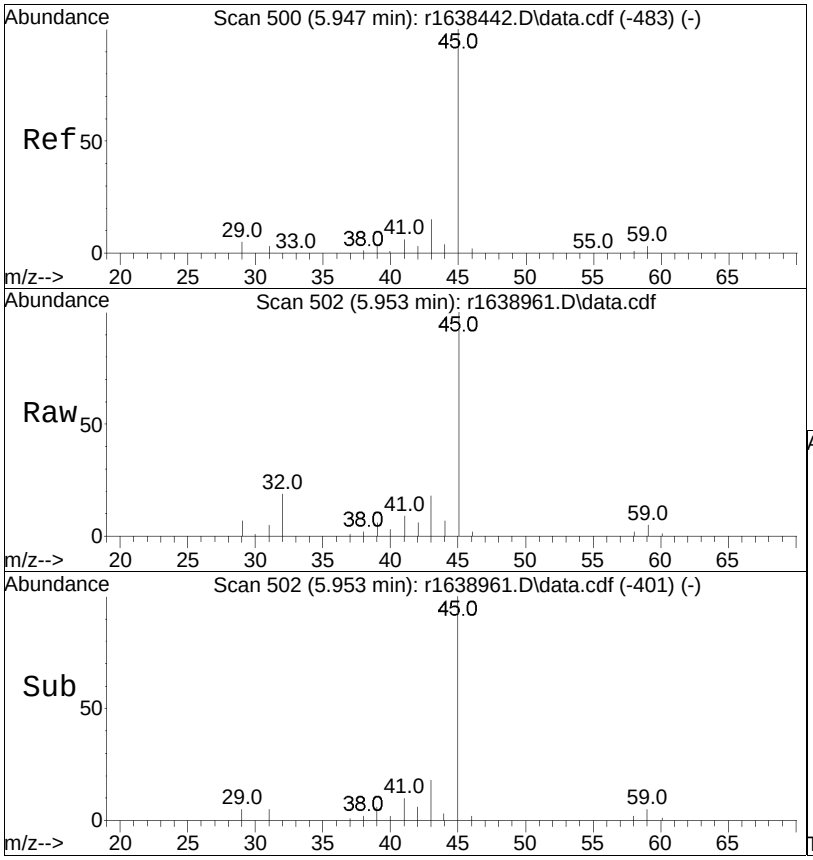


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:101 Resp: 2283

Ion	Ratio	Lower	Upper
101	100		
103	68.9	50.6	76.0

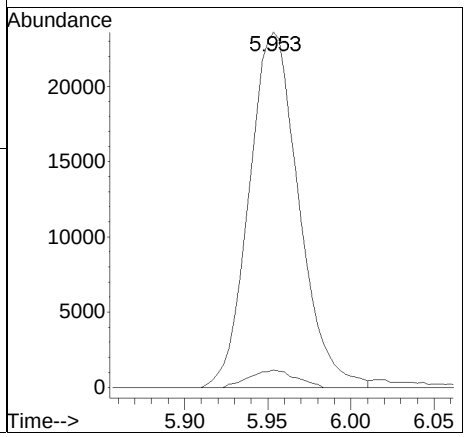


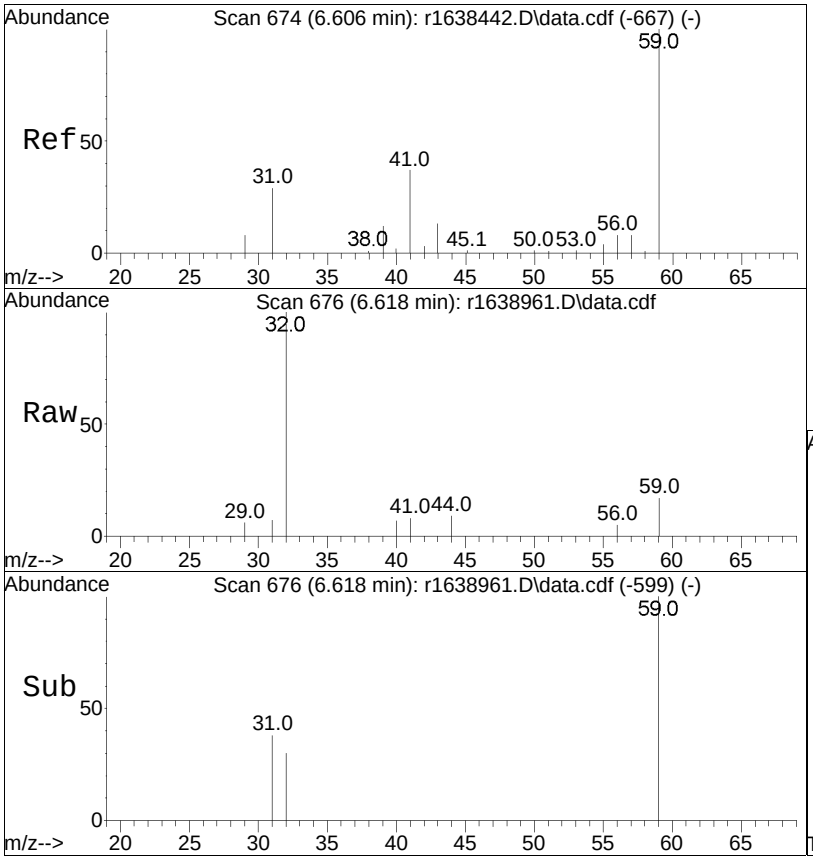


#22
isopropyl alcohol
Concen: 3.04 ppbV
RT: 5.953 min Scan# 502
Delta R.T. 0.007 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 45 Resp: 49118

Ion	Ratio	Lower	Upper
45	100		
59	4.8	2.8	4.2#

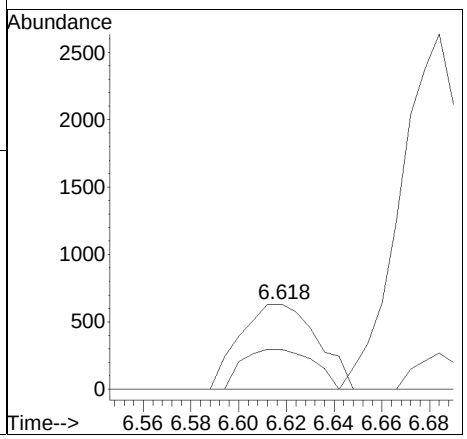


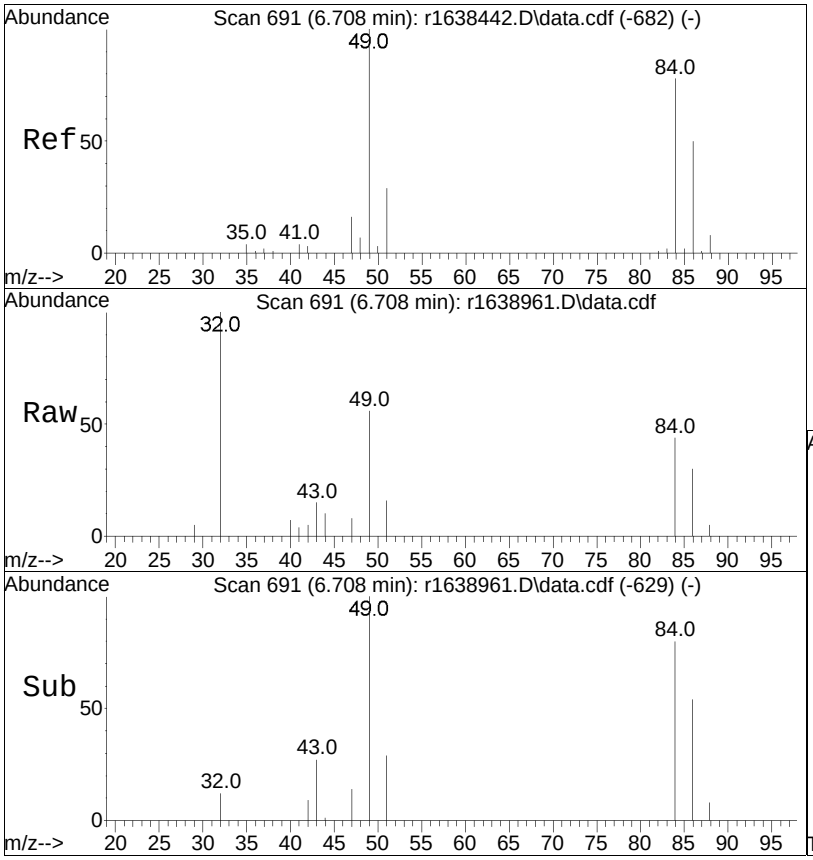


#27
tertiary butyl alcohol
Concen: 0.09 ppbV
RT: 6.618 min Scan# 676
Delta R.T. 0.012 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 59 Resp: 1425

Ion	Ratio	Lower	Upper
59	100		
41	47.0	29.3	43.9#
43	0.0	10.1	15.1#

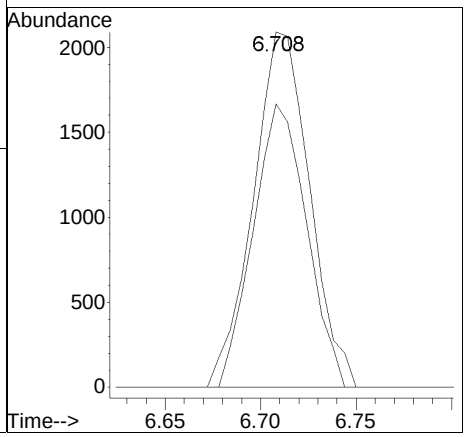


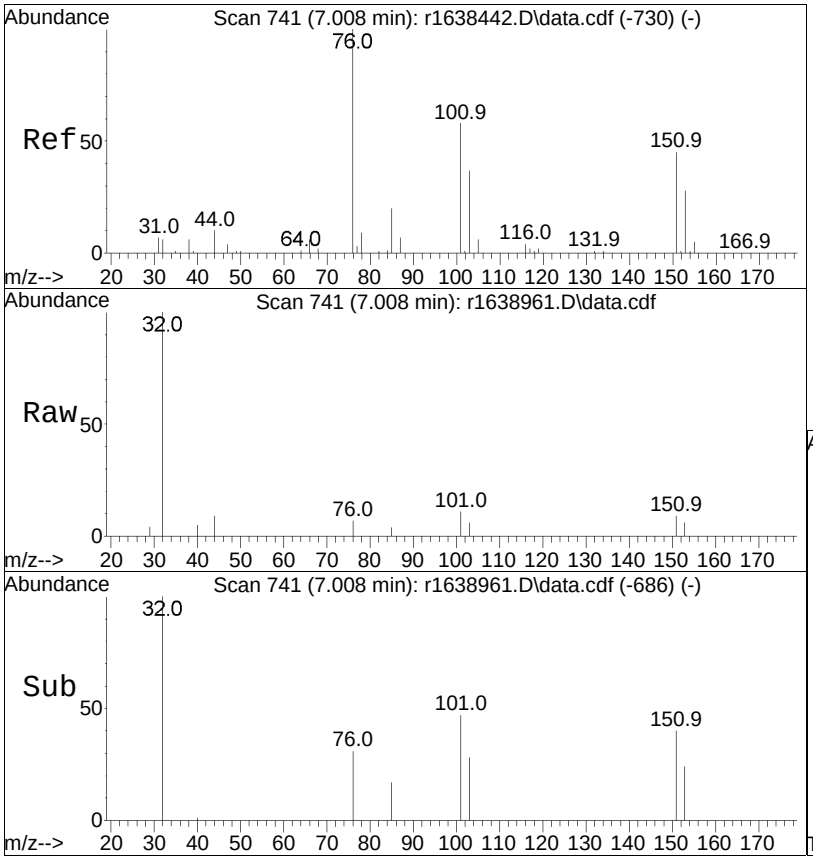


#28
methylene chloride
Concen: 0.36 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 49 Resp: 4304

Ion	Ratio	Lower	Upper
49	100		
84	79.8	62.4	93.6

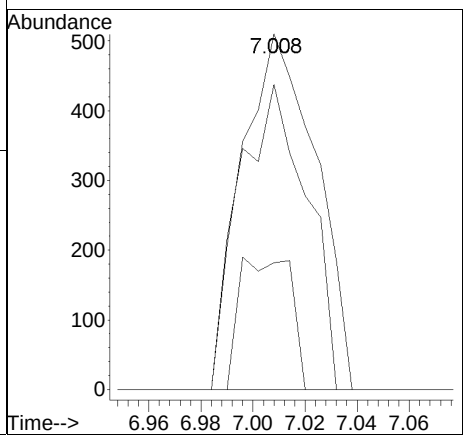


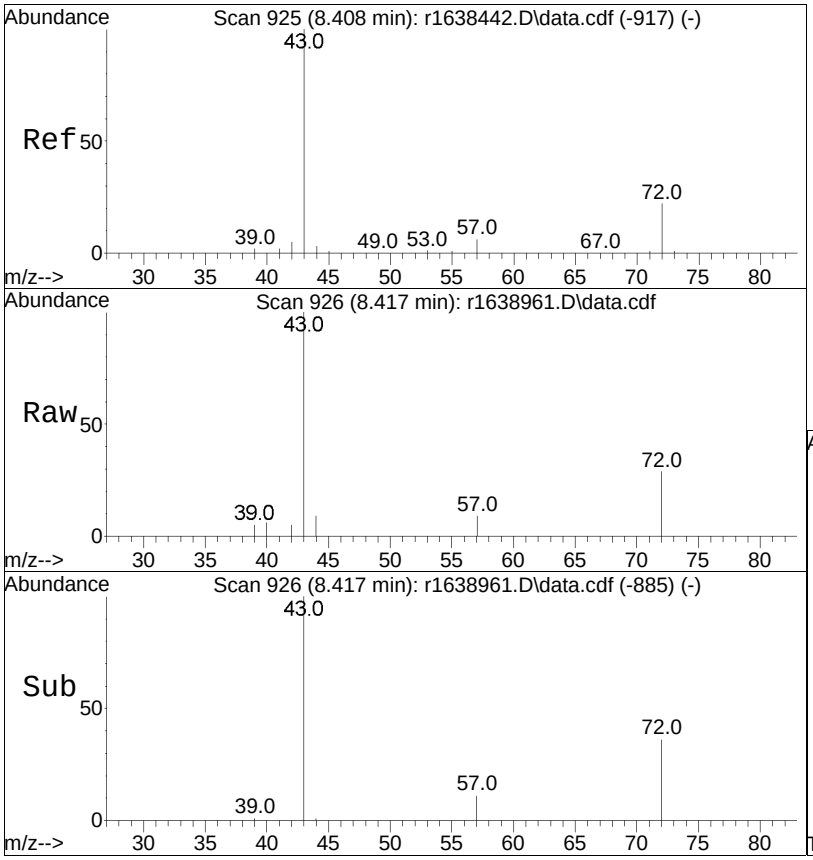


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.008 min Scan# 741
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:101 Resp: 1011

Ion	Ratio	Lower	Upper
101	100		
85	35.7	27.8	41.6
151	85.9	62.2	93.4

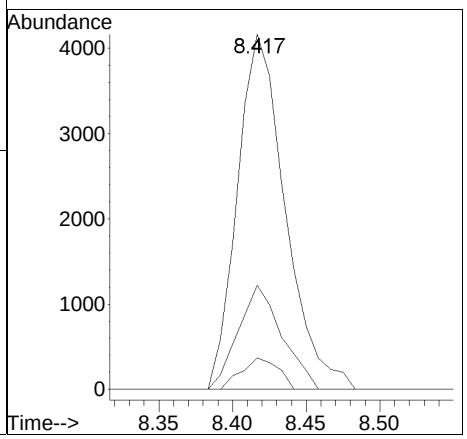


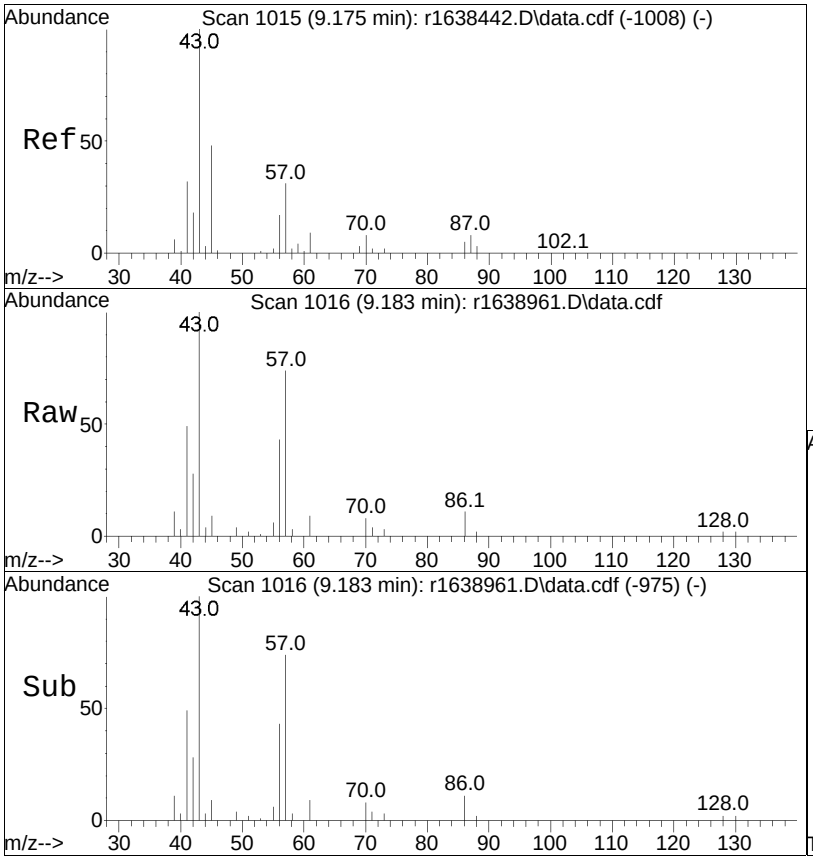


#36
2-butanone
Concen: 0.35 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 43 Resp: 9399

Ion	Ratio	Lower	Upper
43	100		
72	29.3	17.4	26.0#
57	8.8	4.8	7.2#

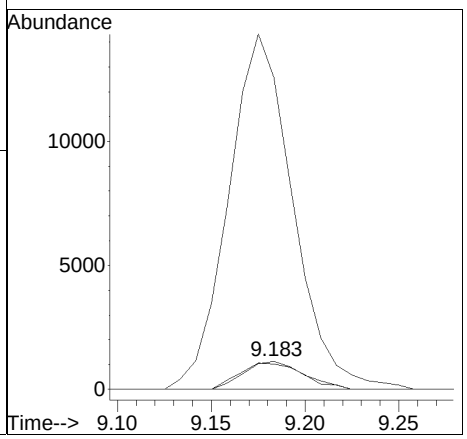


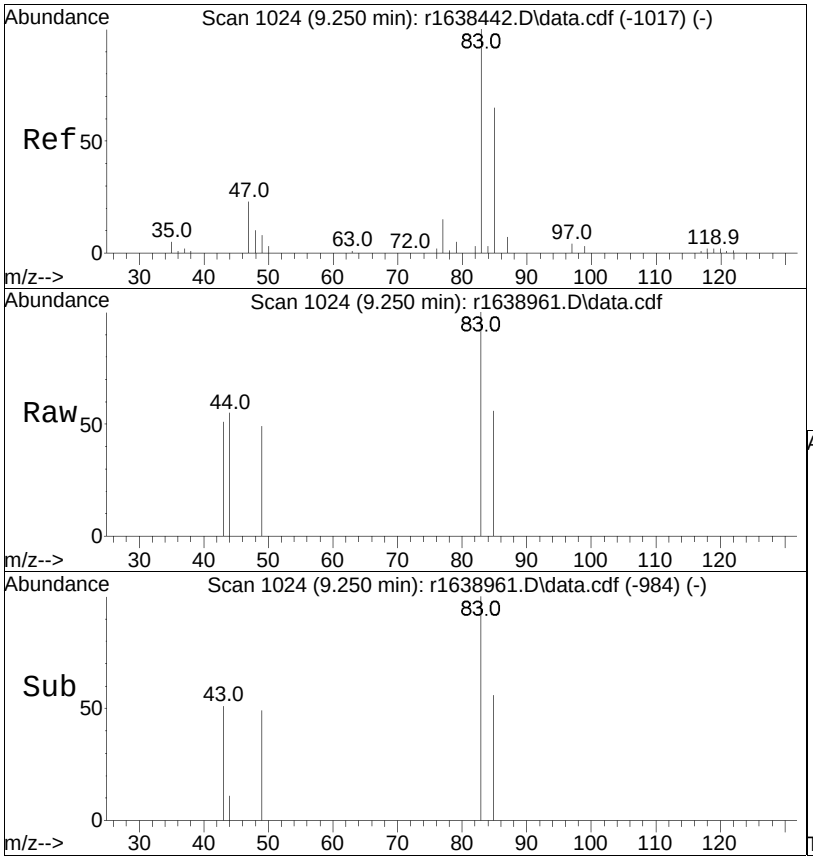


#38
Ethyl Acetate
Concen: 0.66 ppbV
RT: 9.183 min Scan# 1016
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 61 Resp: 2530

Ion	Ratio	Lower	Upper
61	100		
70	90.5	74.6	112.0
43	1112.7	942.0	1413.0

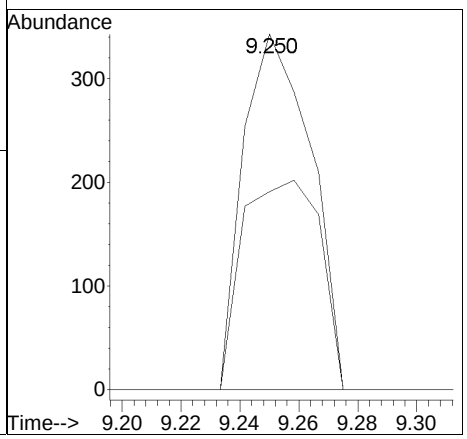


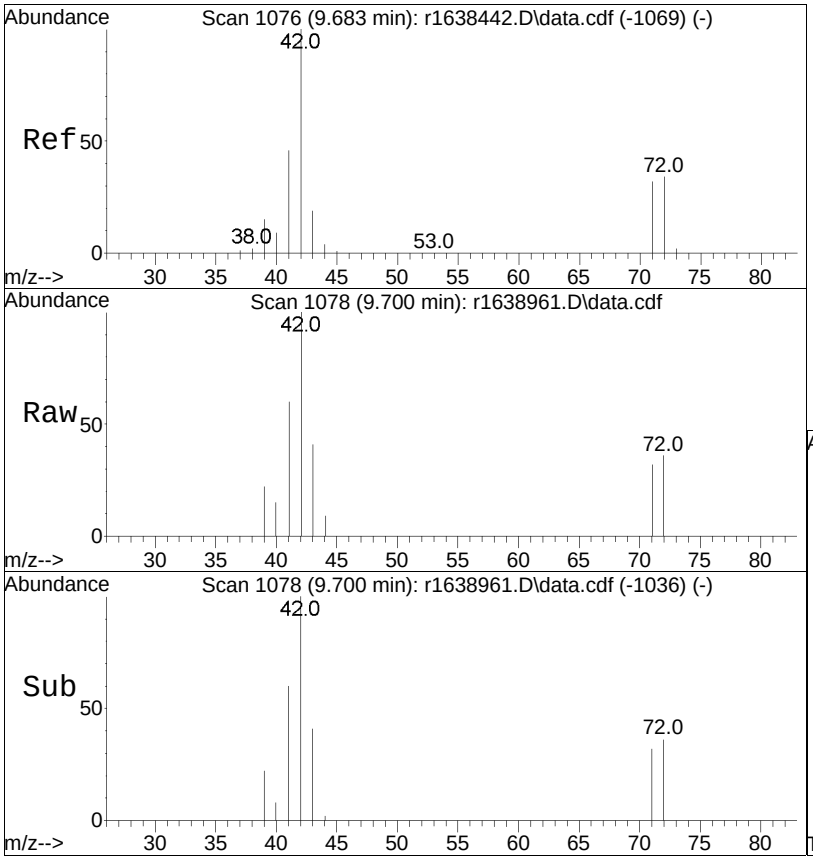


#39
chloroform
Concen: 0.03 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 83 Resp: 547

Ion	Ratio	Lower	Upper
83	100		
85	55.7	51.9	77.9
47	0.0	18.0	27.0#

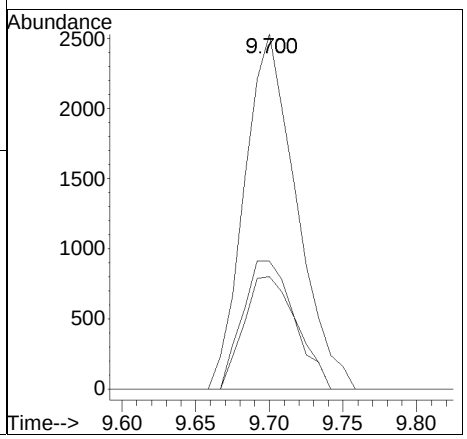


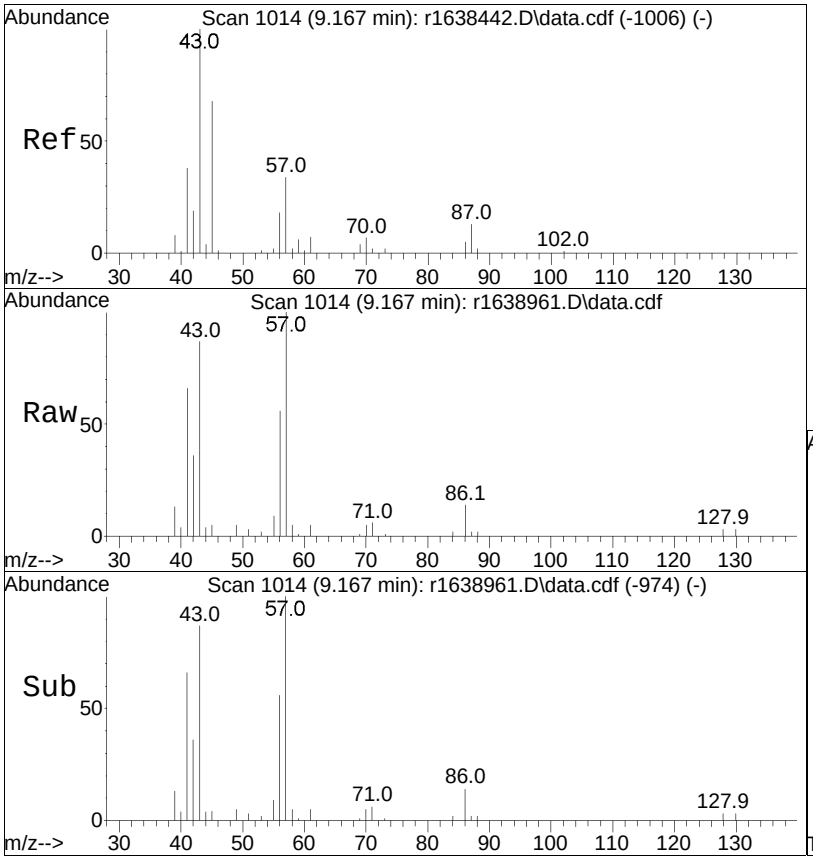


#40
Tetrahydrofuran
Concen: 0.37 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 42 Resp: 6208

Ion	Ratio	Lower	Upper
42	100		
71	31.7	25.6	38.4
72	36.1	27.4	41.2

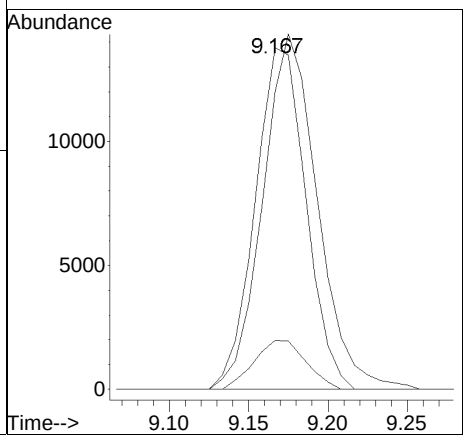


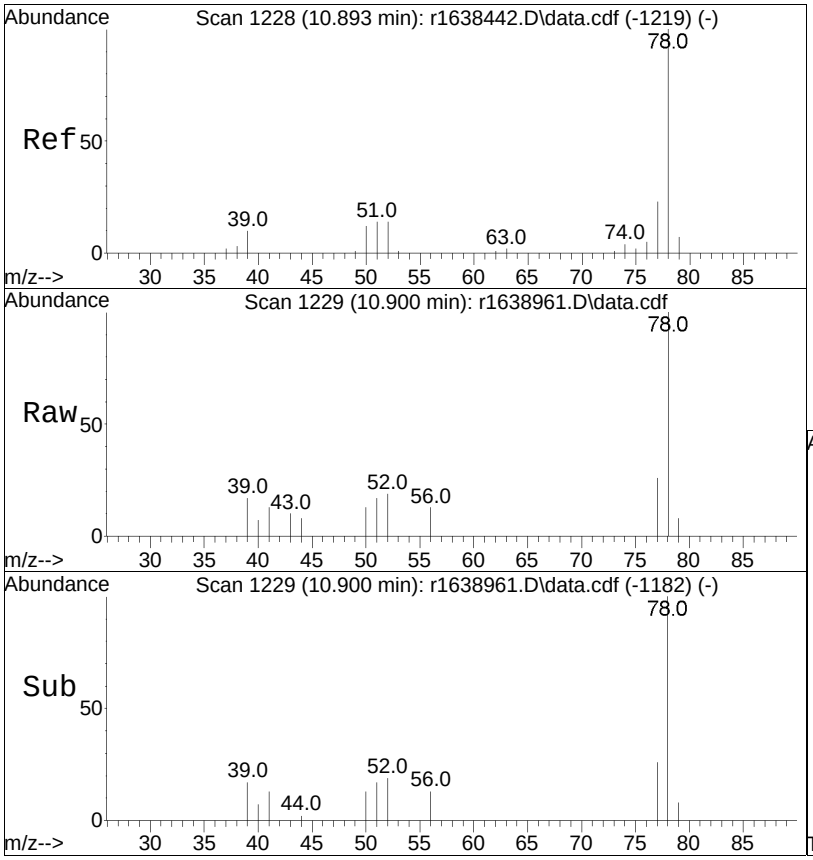


#44
hexane
Concen: 1.86 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 57 Resp: 30649

Ion	Ratio	Lower	Upper
57	100		
43	87.2	233.1	349.7#
86	14.4	12.6	18.8

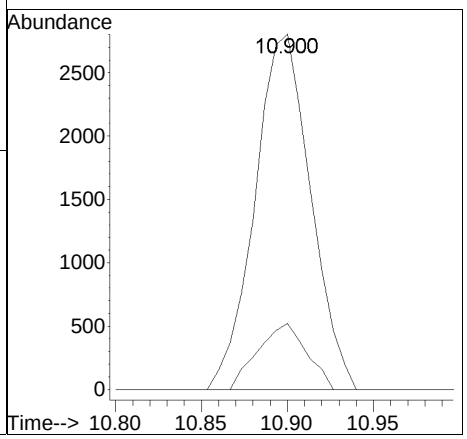


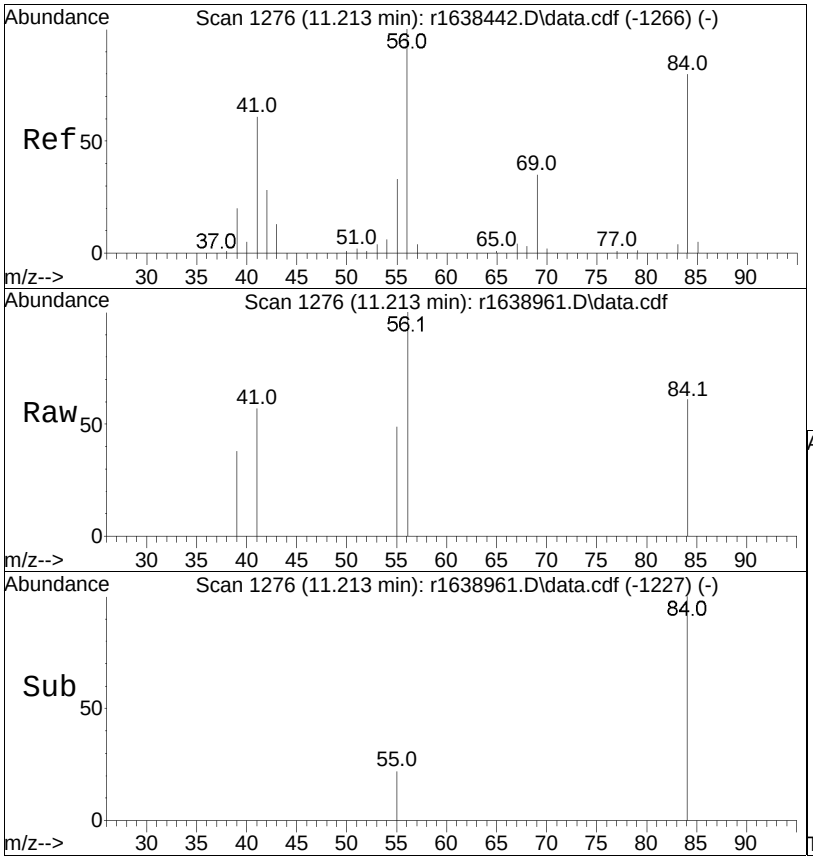


#50
benzene
Concen: 0.19 ppbV
RT: 10.900 min Scan# 1229
Delta R.T. 0.007 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 78 Resp: 6331

Ion	Ratio	Lower	Upper
78	100		
52	18.6	11.6	17.4#

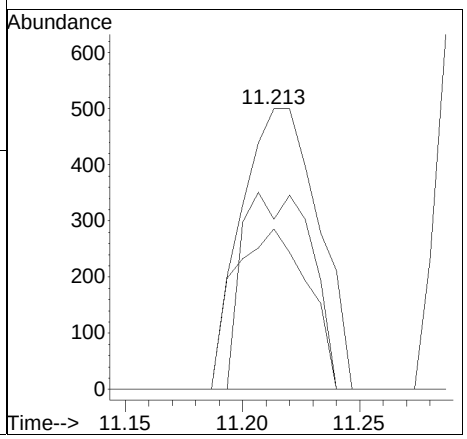


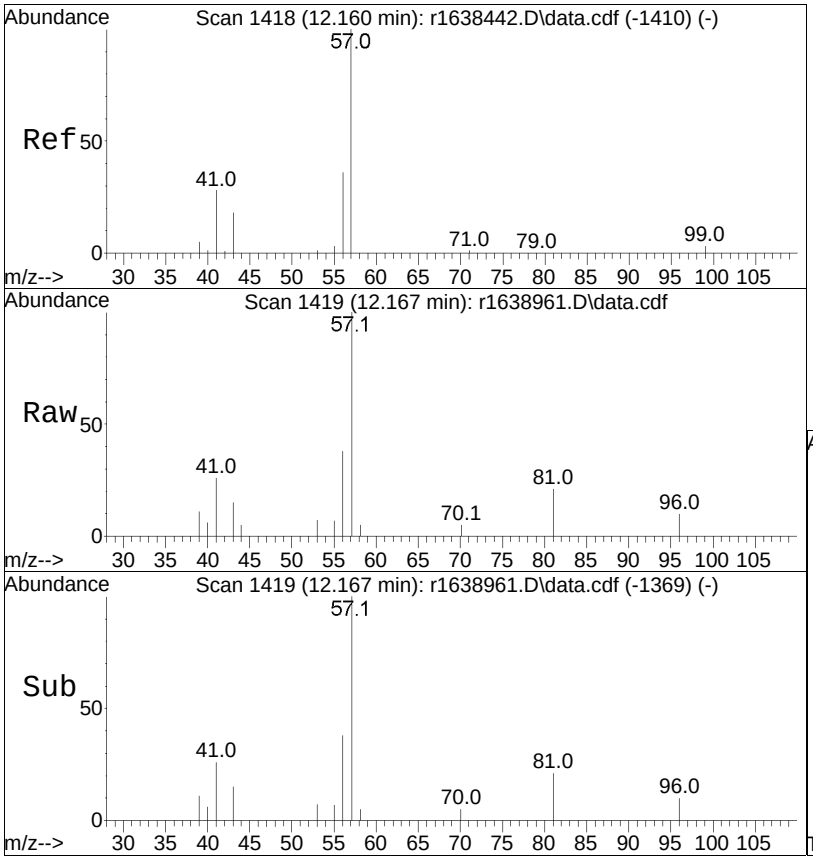


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.213 min Scan# 1276
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 56 Resp: 1143

Ion	Ratio	Lower	Upper
56	100		
84	60.6	64.2	96.4#
41	57.2	48.8	73.2

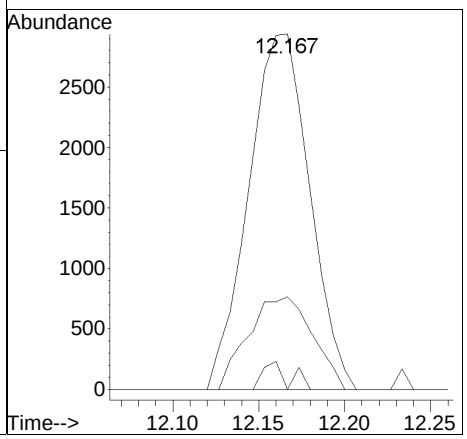


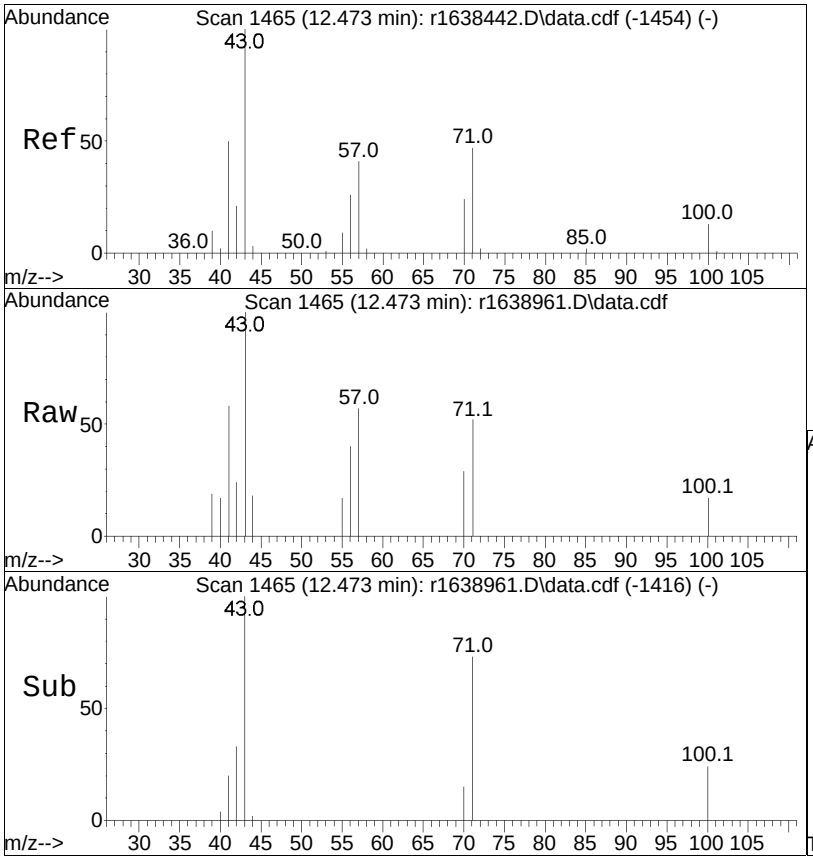


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.167 min Scan# 1419
Delta R.T. 0.007 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 57 Resp: 7260

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.4	6.6#
41	26.1	21.9	32.9

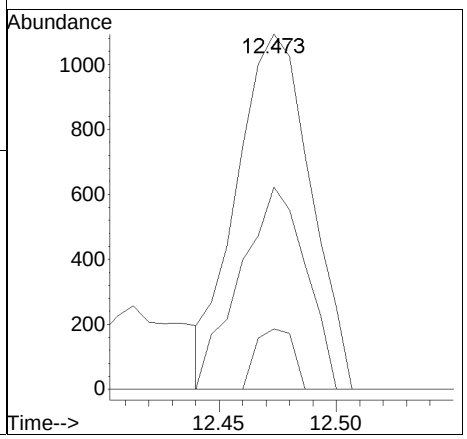


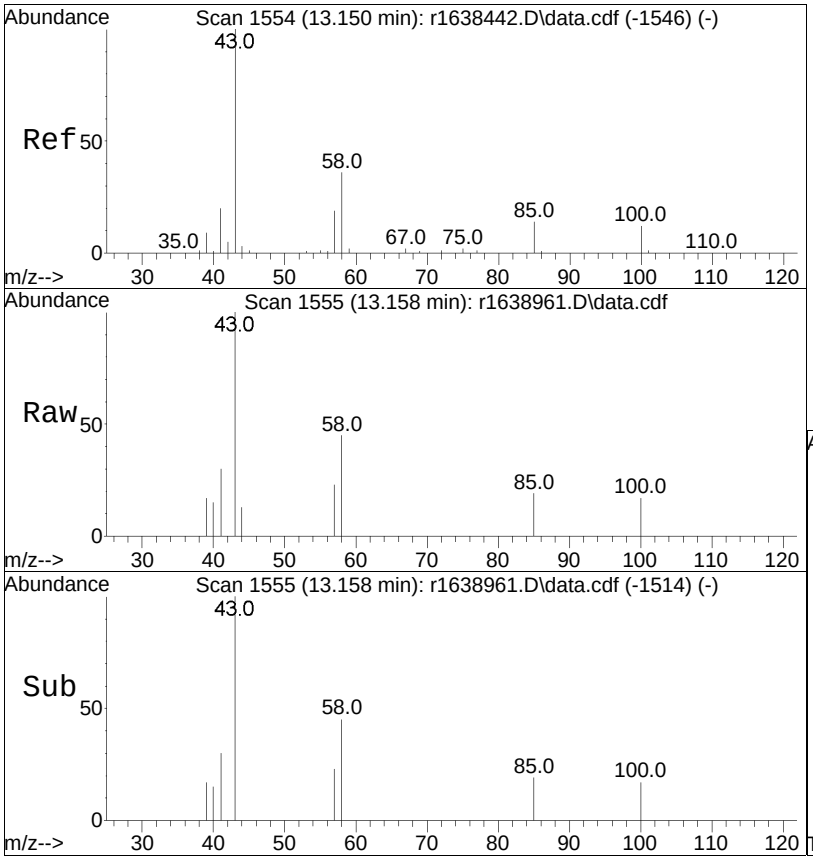


#62
heptane
Concen: 0.09 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 43 Resp: 2399

Ion	Ratio	Lower	Upper
43	100		
57	56.9	32.8	49.2#
100	17.0	10.9	16.3#

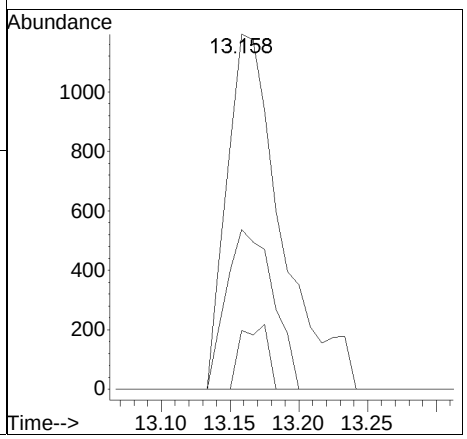


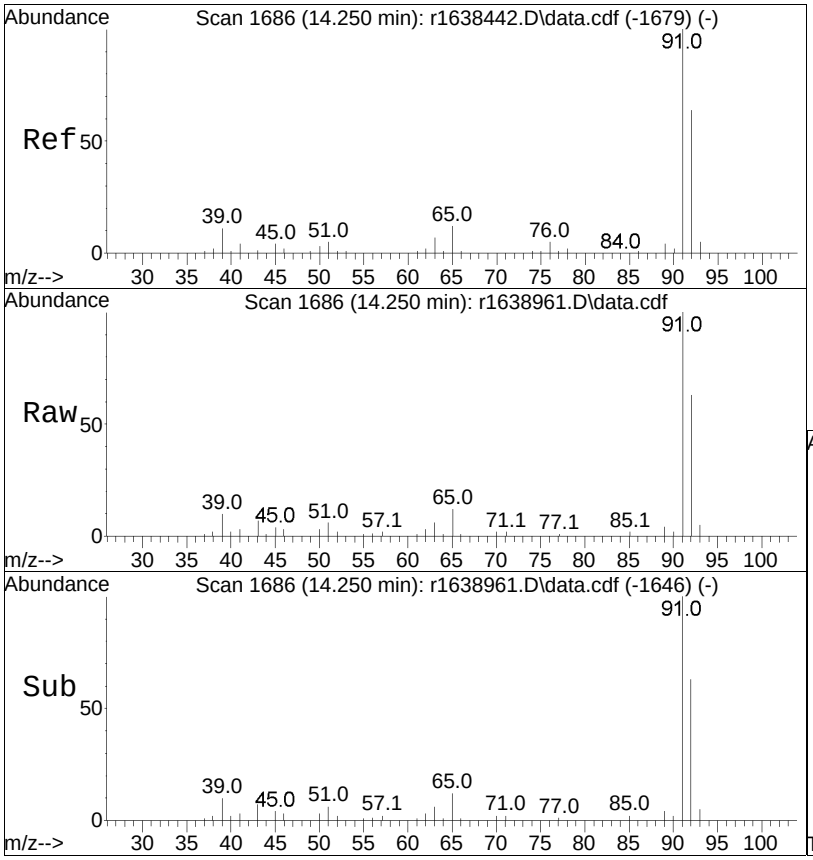


#64
4-methyl-2-pentanone
Concen: 0.11 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 43 Resp: 3307

Ion	Ratio	Lower	Upper
43	100		
58	45.0	28.6	43.0#
100	16.6	9.9	14.9#

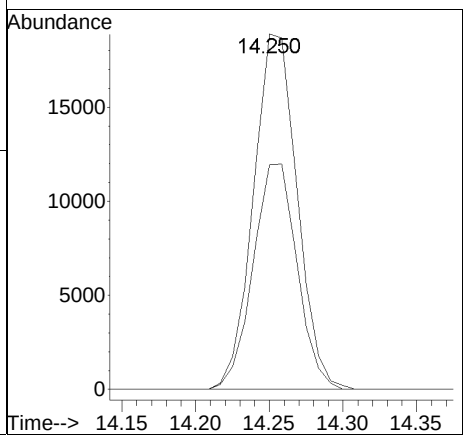


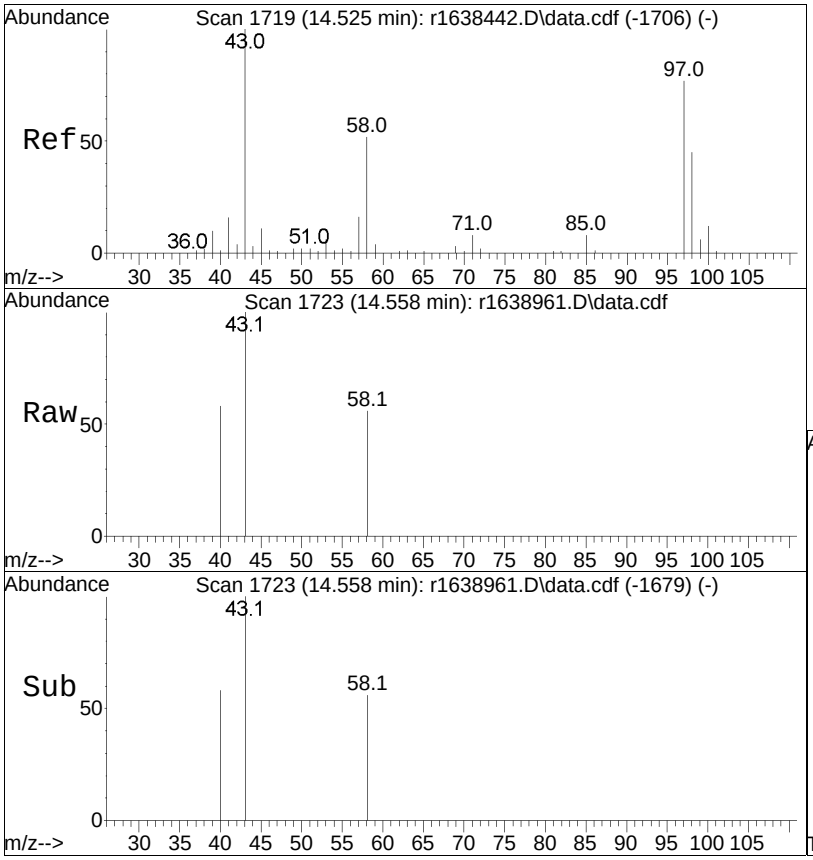


#68
toluene
Concen: 0.87 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 91 Resp: 39021

Ion	Ratio	Lower	Upper
91	100		
92	63.2	51.0	76.4

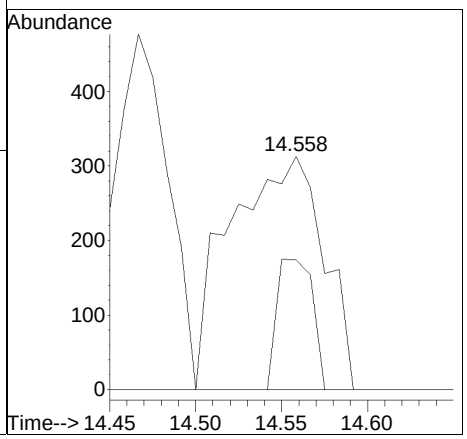


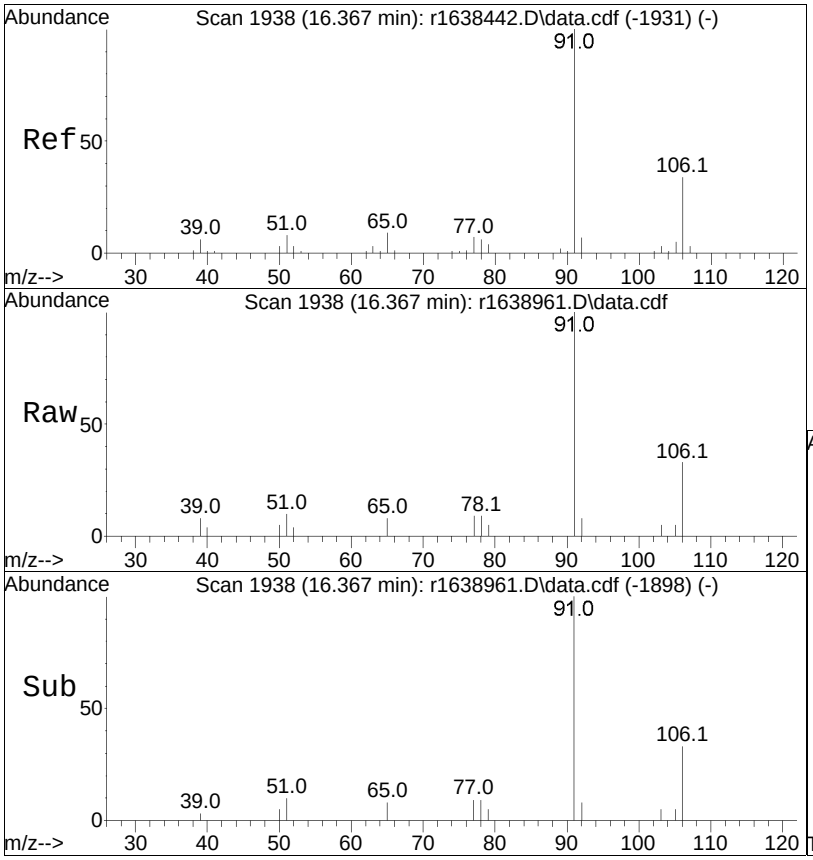


#72
2-hexanone
Concen: 0.04 ppbV
RT: 14.558 min Scan# 1723
Delta R.T. 0.033 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 43 Resp: 1183

Ion	Ratio	Lower	Upper
43	100		
58	55.6	41.4	62.2
100	0.0	9.3	13.9#

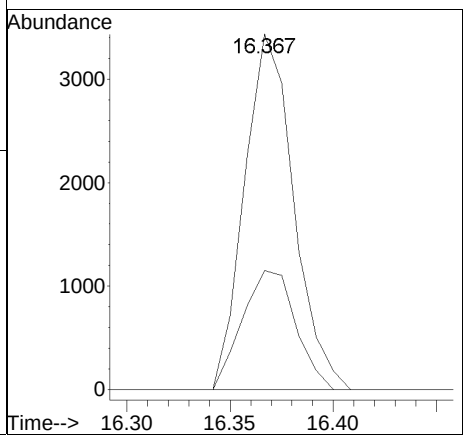


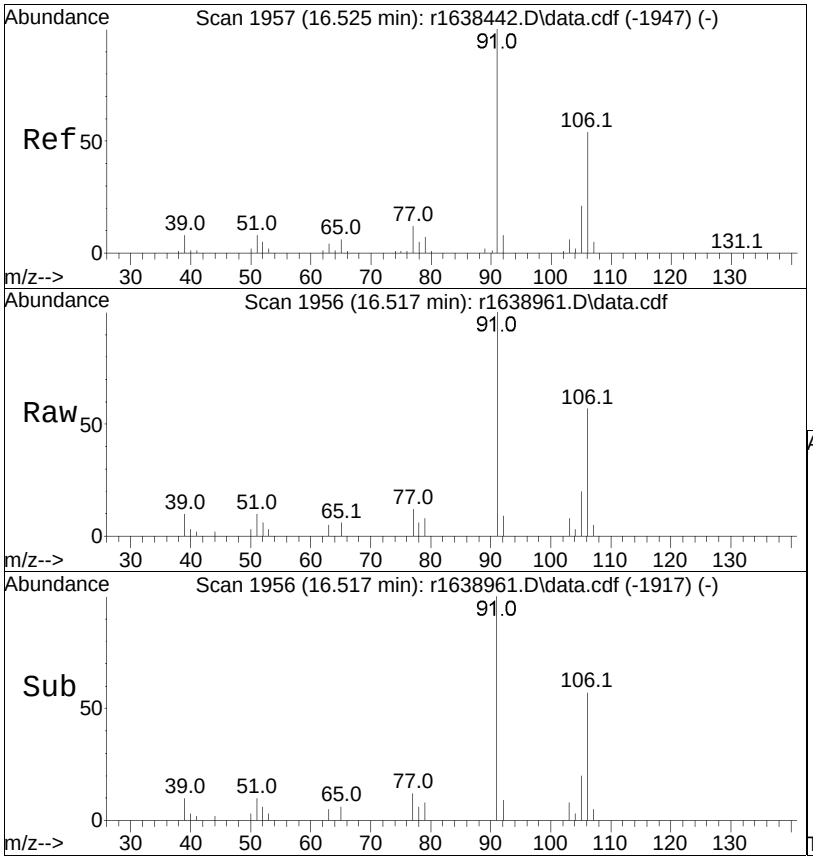


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 91 Resp: 5705

Ion	Ratio	Lower	Upper
91	100		
106	33.4	27.4	41.2

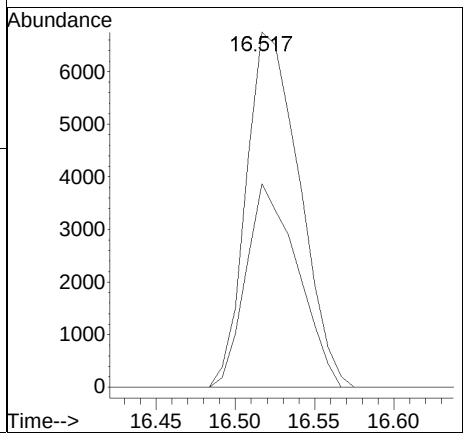


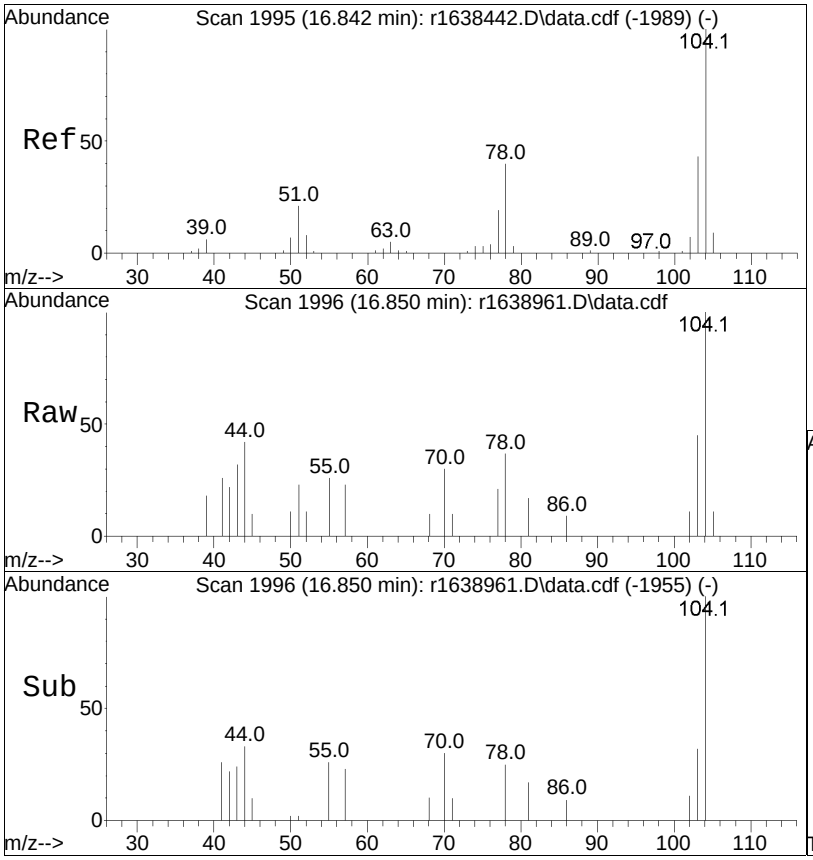


#83
m+p-xylene
Concen: 0.35 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 91 Resp: 15734

Ion	Ratio	Lower	Upper
91	100		
106	57.3	43.0	64.4

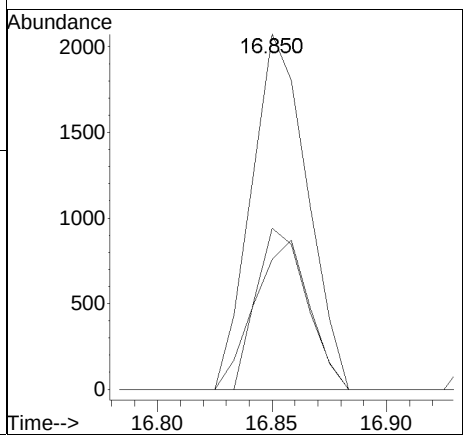


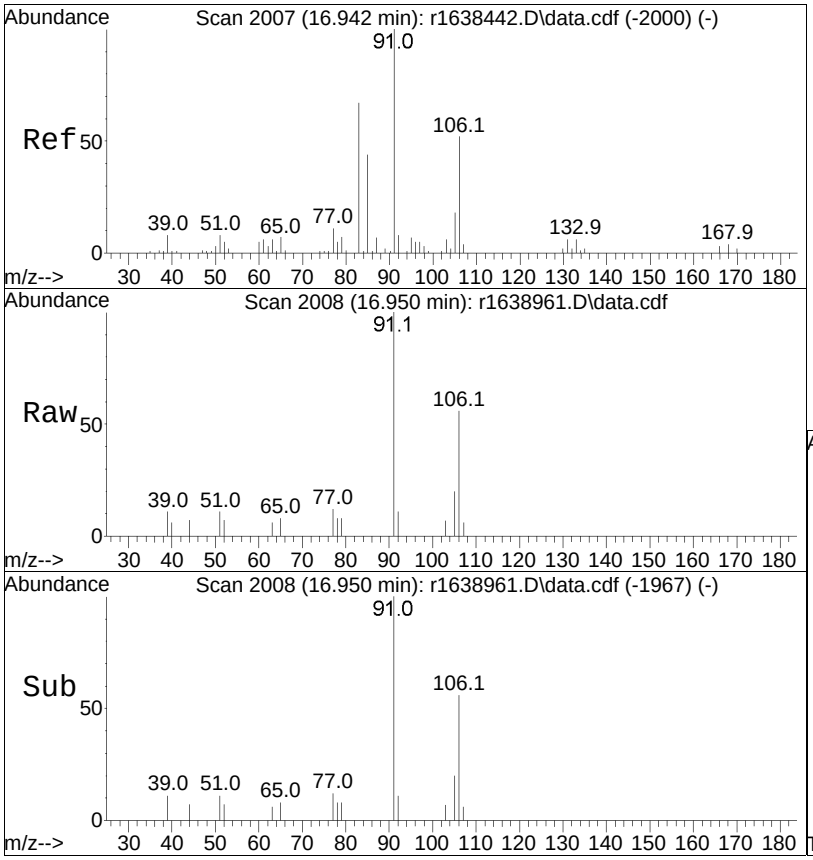


#85
styrene
Concen: 0.10 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:104 Resp: 3514

Ion	Ratio	Lower	Upper
104	100		
103	45.3	34.0	51.0
78	36.6	31.7	47.5

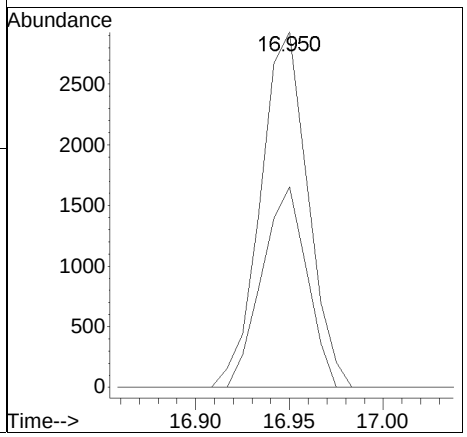


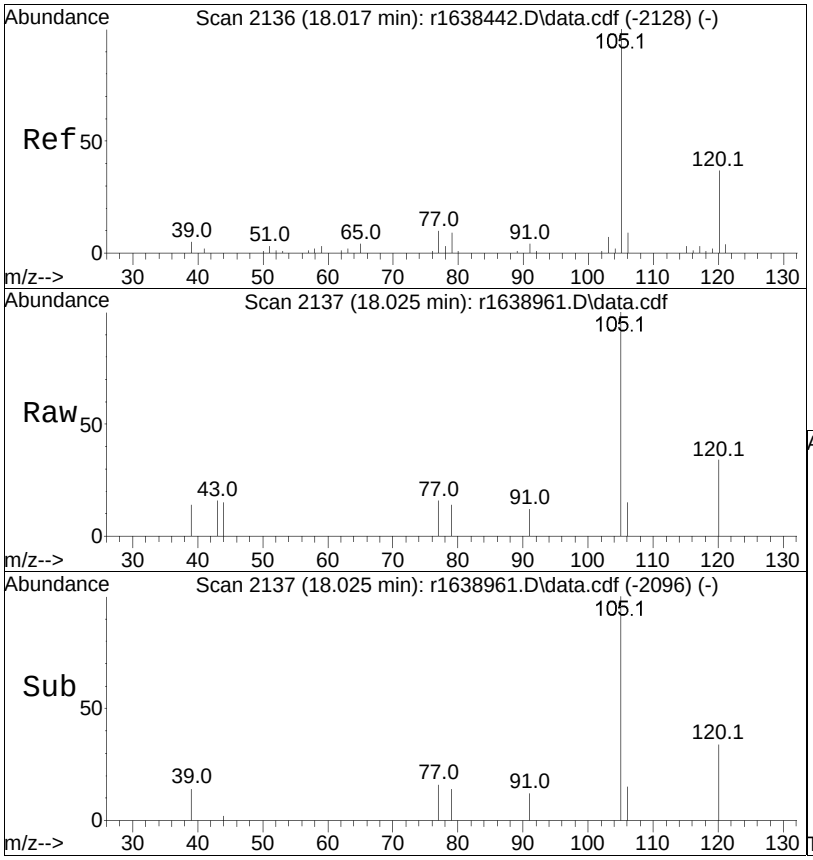


#87
o-xylene
Concen: 0.12 ppbV
RT: 16.950 min Scan# 2008
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion: 91 Resp: 5160

Ion	Ratio	Lower	Upper
91	100		
106	56.5	41.7	62.5

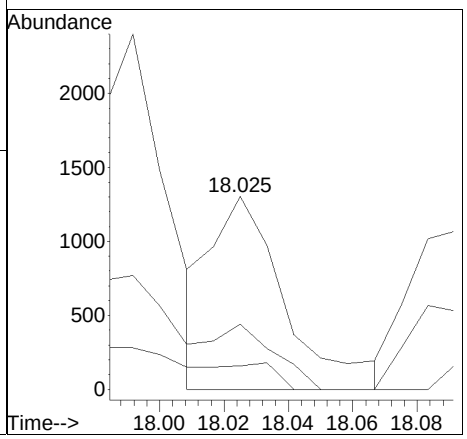


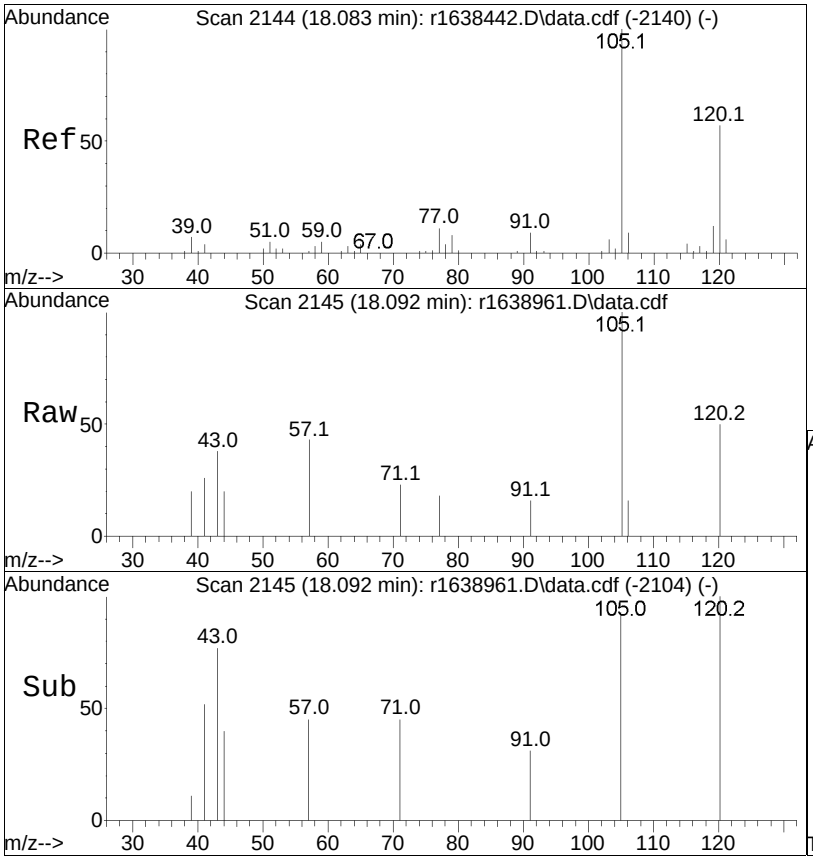


#96
4-ethyl toluene
Concen: 0.03 ppbV m
RT: 18.025 min Scan# 2137
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:105 Resp: 2095

Ion	Ratio	Lower	Upper
105	100		
120	33.8	29.7	44.5
91	12.2	7.9	11.9#

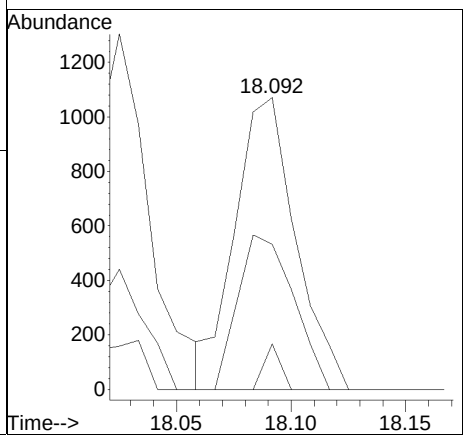


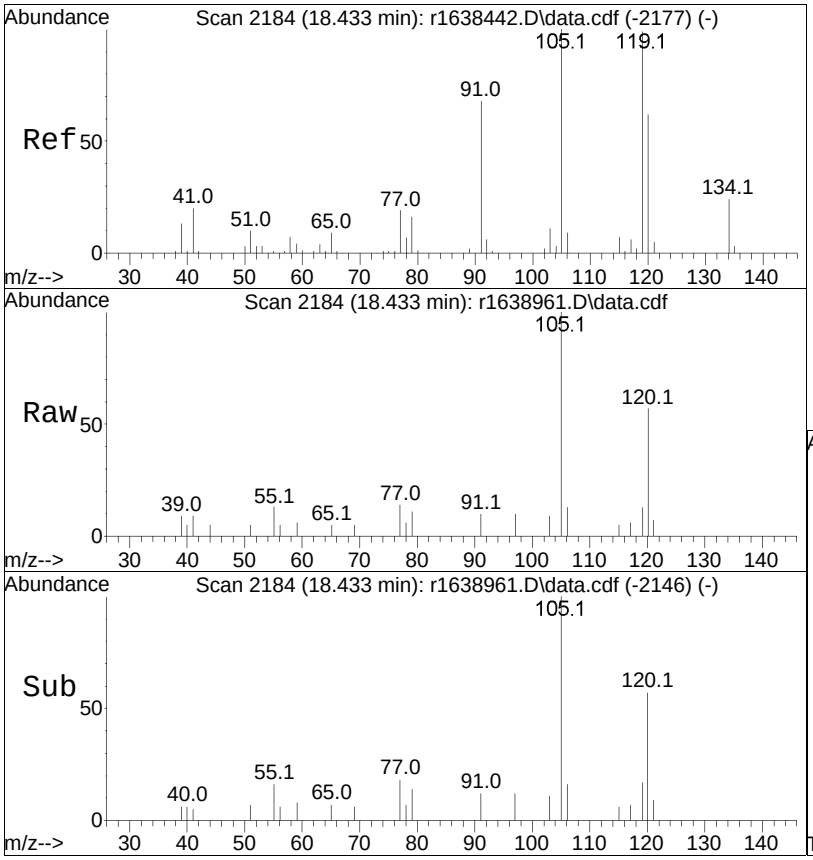


#97
1,3,5-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.092 min Scan# 2145
Delta R.T. 0.008 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:105 Resp: 1972

Ion	Ratio	Lower	Upper
105	100		
120	49.8	45.4	68.2
91	15.6	7.5	11.3#

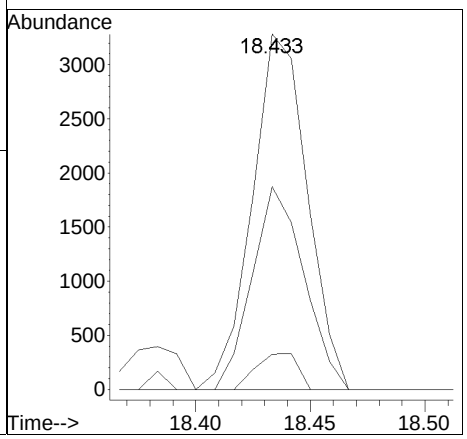




#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638961.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:105 Resp: 5497

Ion	Ratio	Lower	Upper
105	100		
120	57.1	49.9	74.9
91	9.9	54.0	81.0#

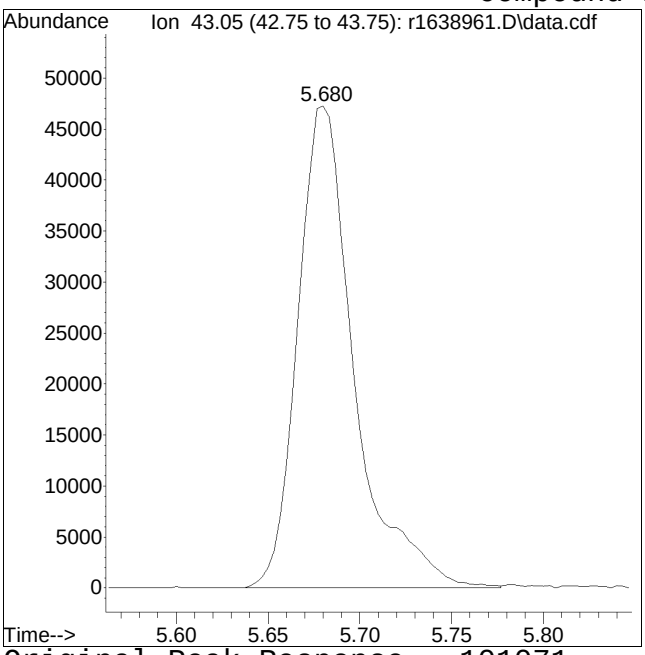


Manual Integration Report

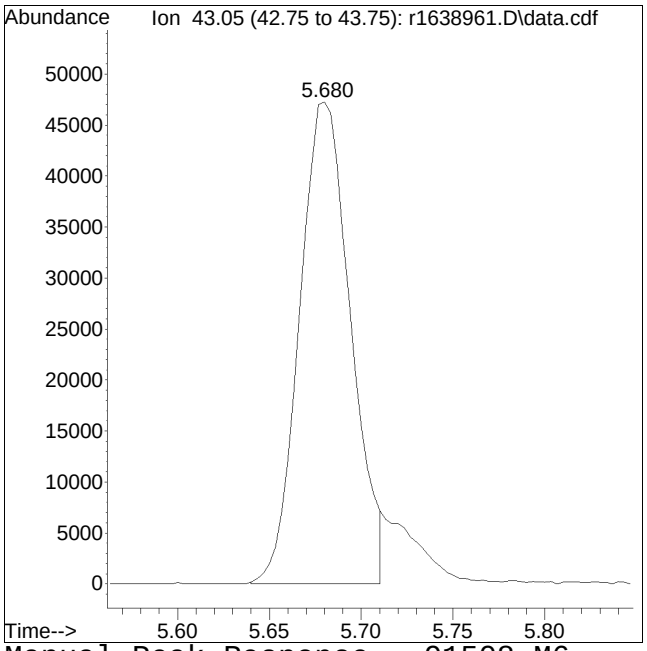
Data Path : O:\Forensics\Data\Airlab16Q
Data File : r1638961.D
Date Inj'd : 8/22/2020 0:6: 0
Sample : L2347540-02,3,250,250

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 8/23/2023 6:30 am

Compound #19: acetone



Original Peak Response = 101071



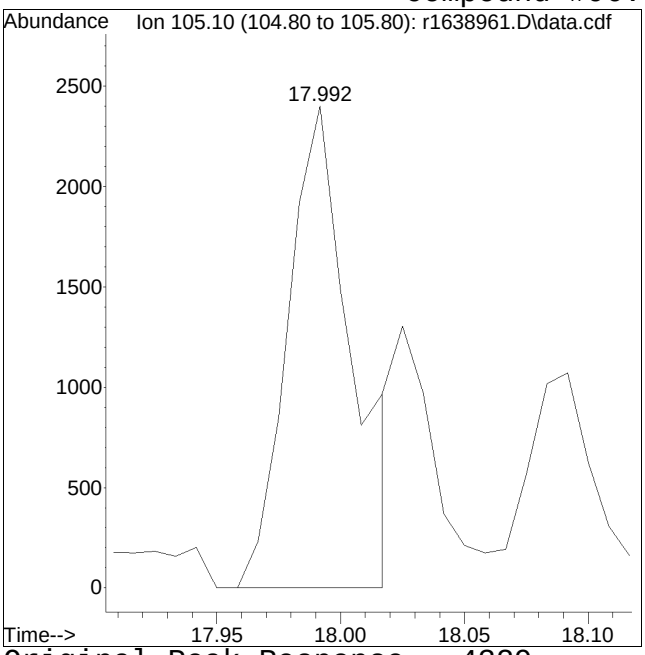
Manual Peak Response = 91508 M6

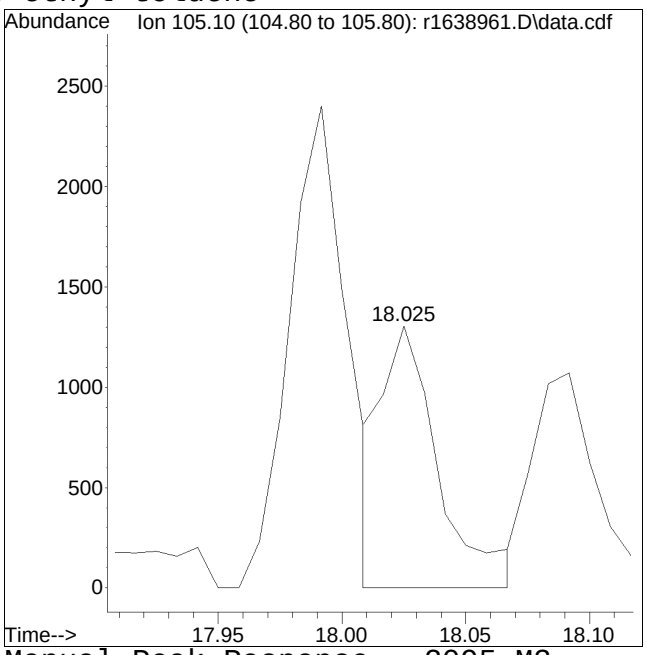
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638961.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:6: 0 Instrument :
Sample : L2347540-02,3,250,250 Quant Date : 8/23/2023 6:30 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4329 Manual Peak Response = 2095 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638962.D
Acq On : 22 Aug 2023 7:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-03,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:38 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	210624	10.000	ppbV	0.00
Standard Area = 214255			Recovery =	98.31%		
43) 1,4-difluorobenzene	11.313	114	629300	10.000	ppbV	0.00
Standard Area = 667571			Recovery =	94.27%		
67) chlorobenzene-D5	15.992	54	80108	10.000	ppbV	0.00
Standard Area = 82563			Recovery =	97.03%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7335	0.470	ppbV	99
6) chloromethane	4.192	50	3942	0.447	ppbV	98
7) Freon-114	4.306		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	353618	63.658	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.677	43	89680M6	8.001	ppbV	
21) trichlorofluoromethane	5.867	101	2243	0.204	ppbV #	79
22) isopropyl alcohol	5.953	45	45817	2.827	ppbV #	97
27) tertiary butyl alcohol	6.612	59	1748	0.111	ppbV #	79
28) methylene chloride	6.708	49	4069	0.338	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.014	76	3553	0.119	ppbV #	46
31) Freon 113	7.008	101	1013	0.051	ppbV	92
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	8.417	43	13779	0.518	ppbV #	93
38) Ethyl Acetate	9.183	61	2375	0.619	ppbV	68
39) chloroform	9.250	83	515	0.030	ppbV #	88
40) Tetrahydrofuran	9.700	42	4413	0.262	ppbV	91
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	25372	1.533	ppbV #	4
50) benzene	10.893	78	6400	0.188	ppbV	99
53) cyclohexane	11.220	56	1210	0.069	ppbV #	78
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638962.D
Acq On : 22 Aug 2023 7:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-03,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:38 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

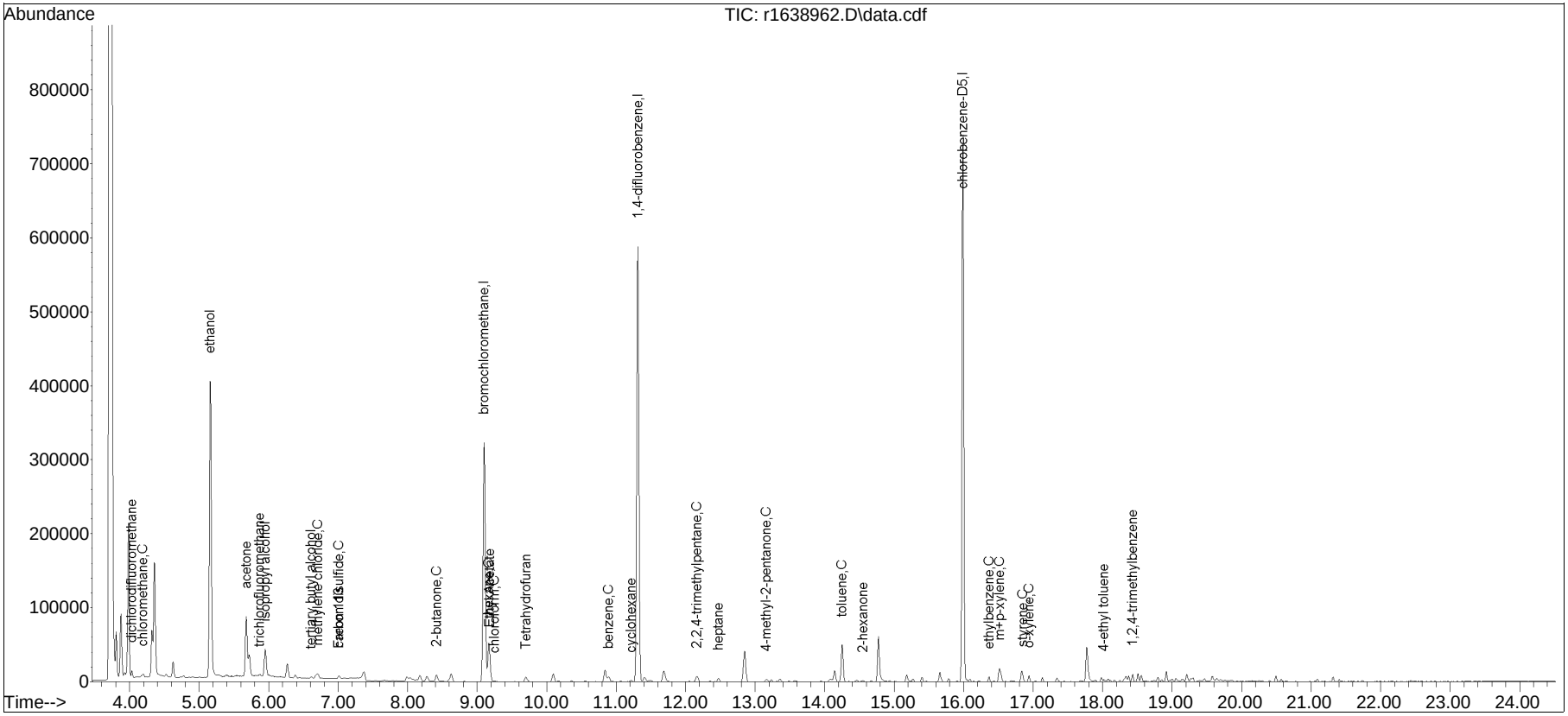
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.160	57	7386	0.136	ppbV #	95
62) heptane	12.473	43	2393	0.094	ppbV #	80
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	3335	0.113	ppbV #	87
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	39863	0.884	ppbV	100
72) 2-hexanone	14.550	43	2212	0.075	ppbV #	83
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.367	91	5333	0.094	ppbV	94
83) m+p-xylene	16.517	91	14999	0.337	ppbV	96
84) bromoform	0.000		0	N.D.		
85) styrene	16.850	104	3375	0.091	ppbV	98
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.942	91	5049	0.114	ppbV	96
96) 4-ethyl toluene	18.017	105	1855M3	0.030	ppbV	
97) 1,3,5-trimethylbenzene	18.083		0	N.D.		
99) 1,2,4-trimethylbenzene	18.433	105	5556	0.108	ppbV #	56
101) Benzyl Chloride	18.433		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

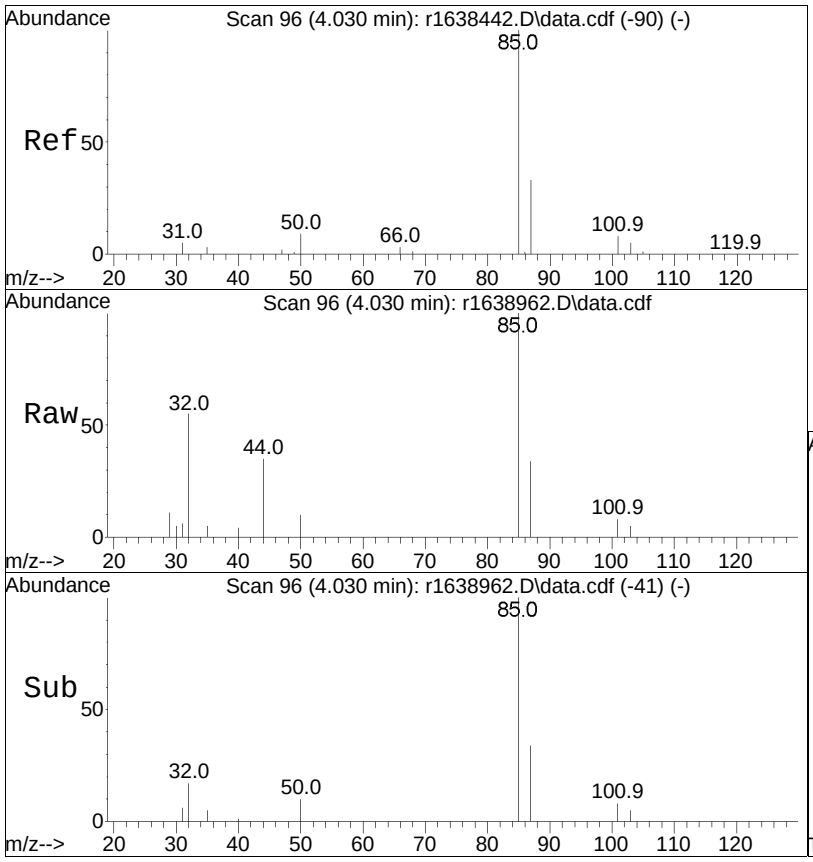
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638962.D
Acq On : 22 Aug 2023 7:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-03,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:30:38 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

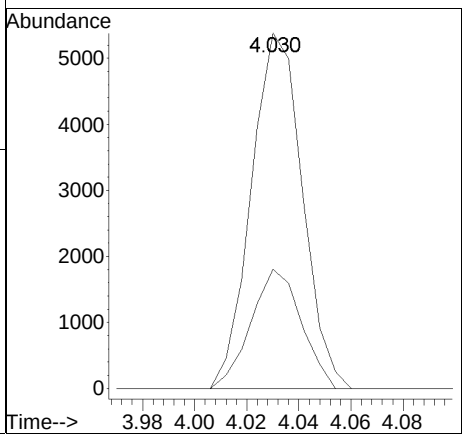


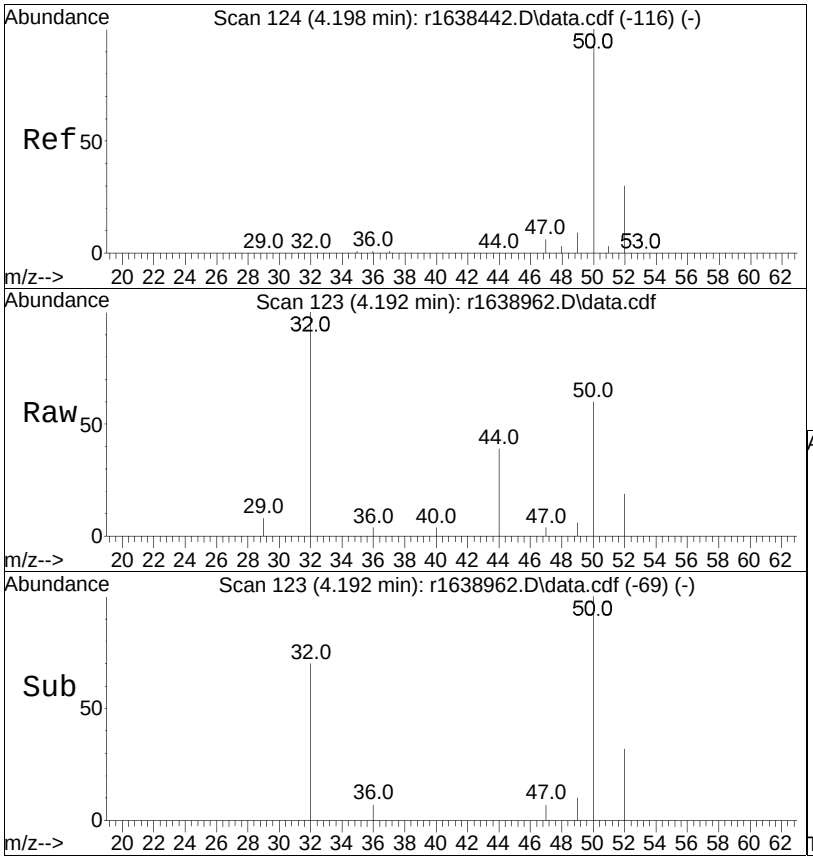


#5
dichlorodifluoromethane
Concen: 0.47 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 85 Resp: 7335

Ion	Ratio	Lower	Upper
85	100		
87	33.5	26.2	39.2

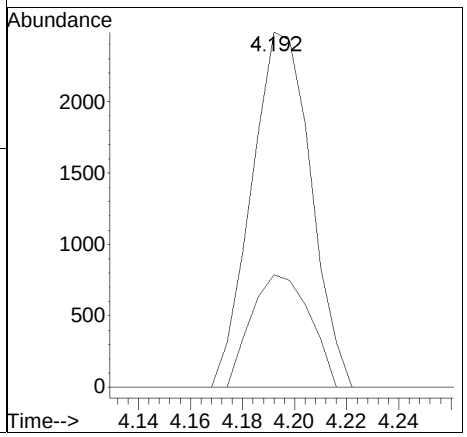


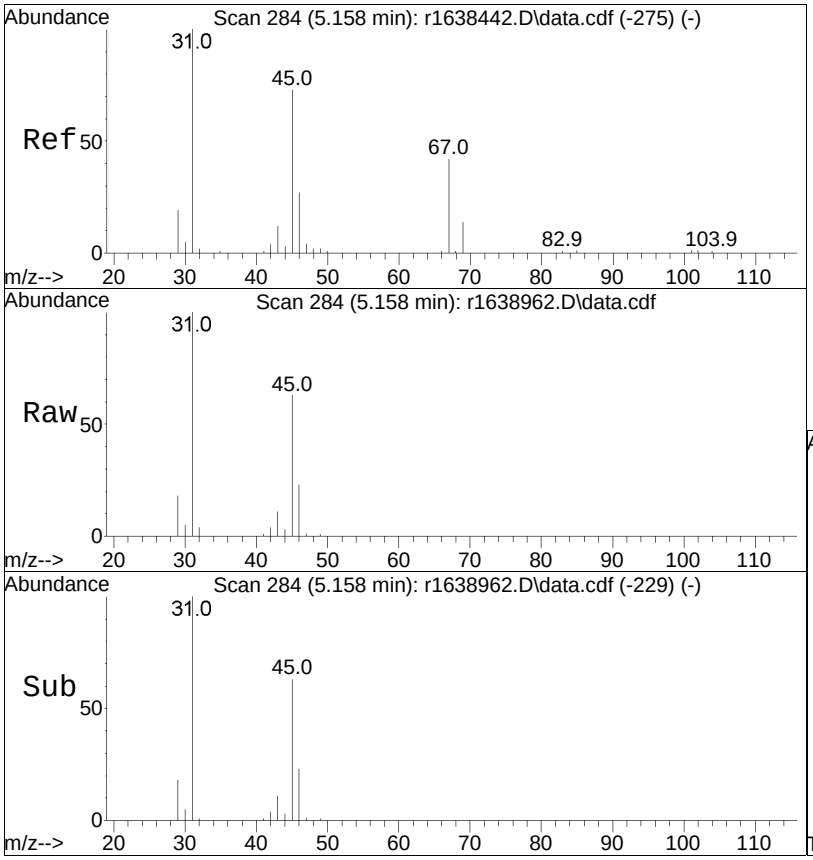


#6
chloromethane
Concen: 0.45 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 50 Resp: 3942

Ion	Ratio	Lower	Upper
50	100		
52	31.7	24.3	36.5

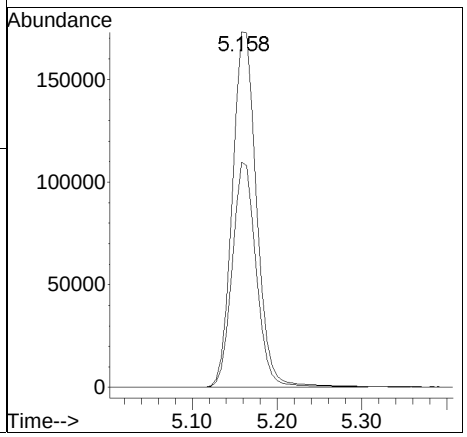


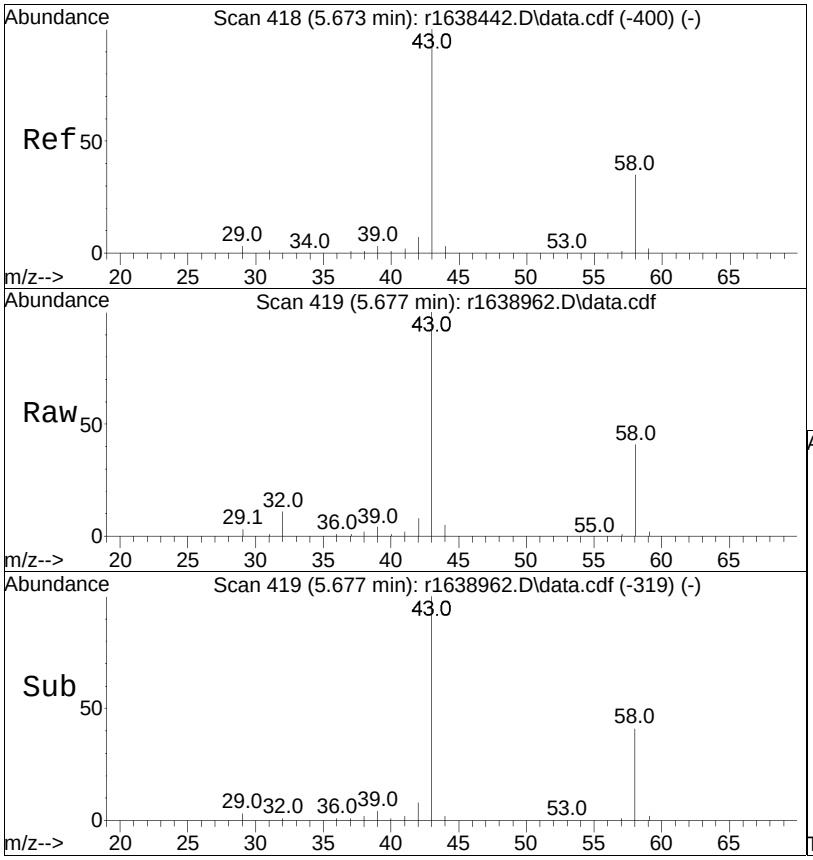


#15
ethanol
Concen: 63.66 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 31 Resp: 353618

Ion	Ratio	Lower	Upper
31	100		
45	63.4	58.6	87.8

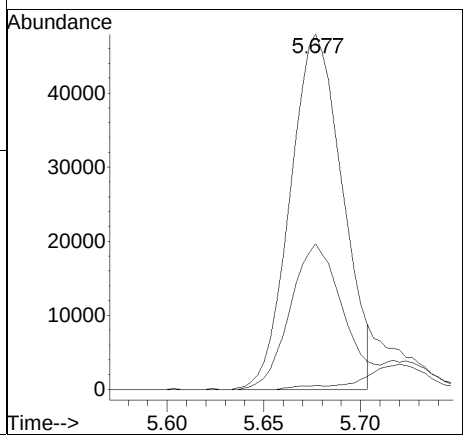


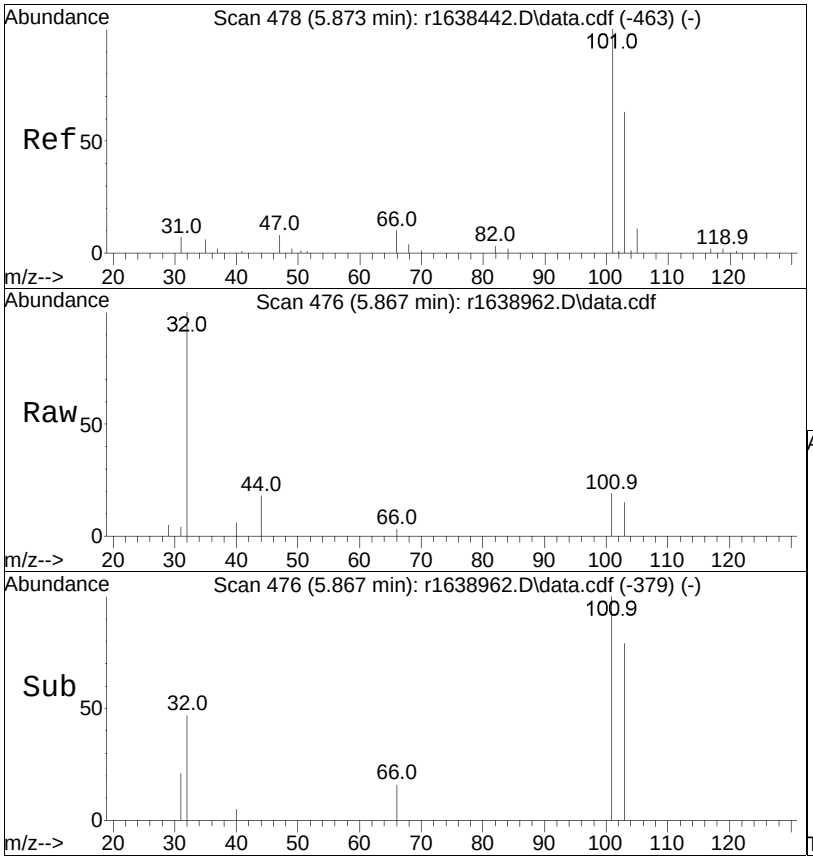


#19
acetone
Concen: 8.00 ppbV m
RT: 5.677 min Scan# 419
Delta R.T. 0.003 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 43 Resp: 89680

Ion	Ratio	Lower	Upper
43	100		
58	41.0	28.3	42.5
57	1.1	0.6	1.0#

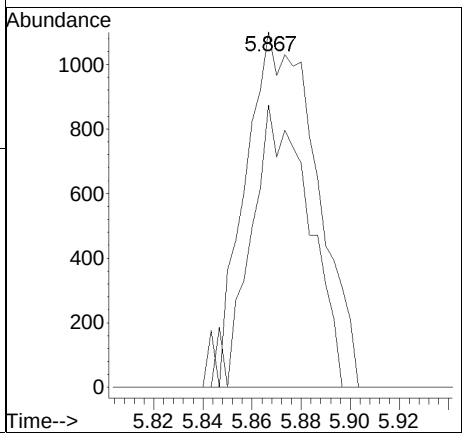


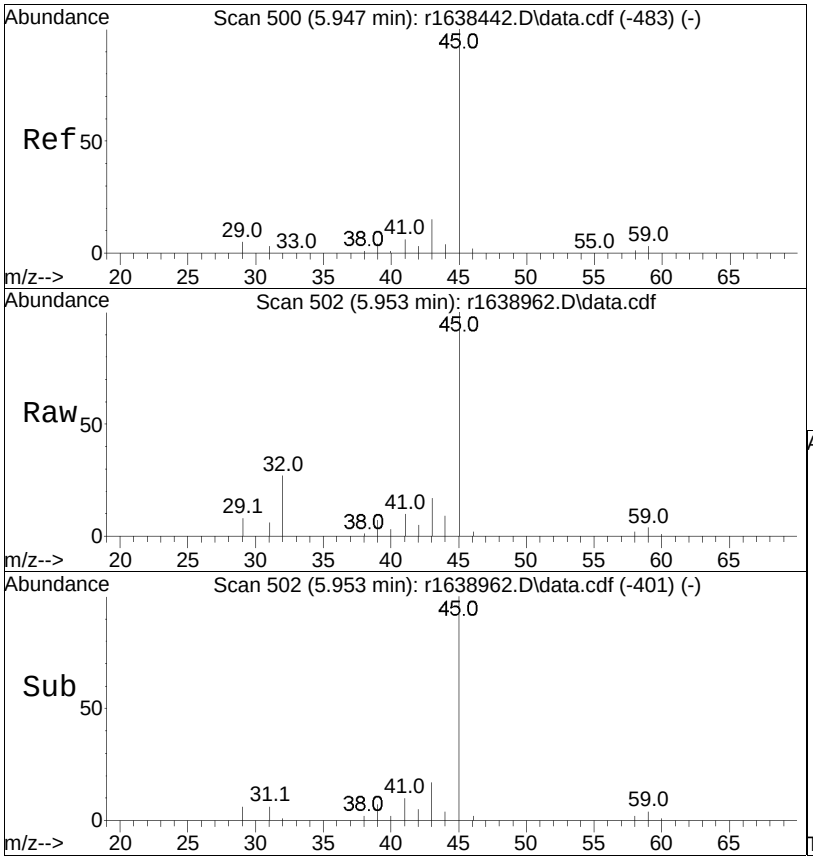


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.867 min Scan# 476
Delta R.T. -0.007 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:101 Resp: 2243

Ion	Ratio	Lower	Upper
101	100		
103	79.5	50.6	76.0#

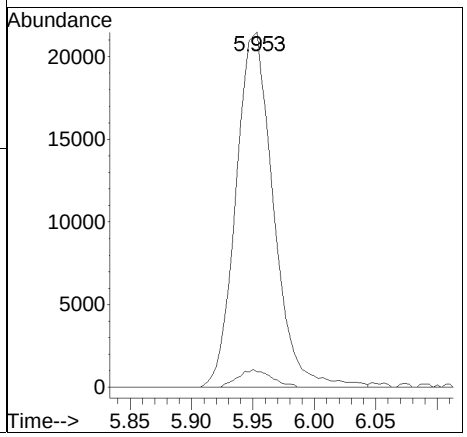


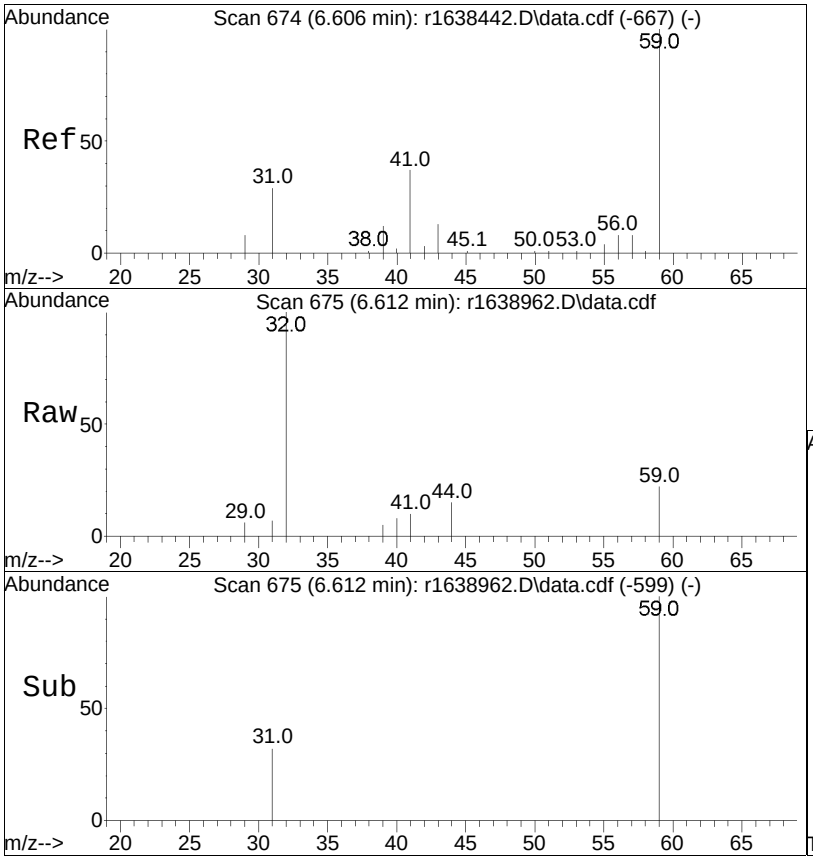


#22
isopropyl alcohol
Concen: 2.83 ppbV
RT: 5.953 min Scan# 502
Delta R.T. 0.007 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 45 Resp: 45817

Ion	Ratio	Lower	Upper
45	100		
59	4.4	2.8	4.2#

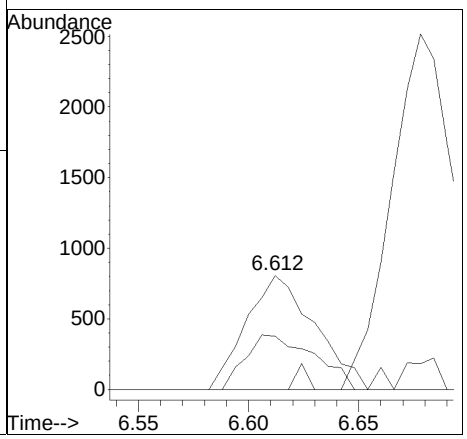


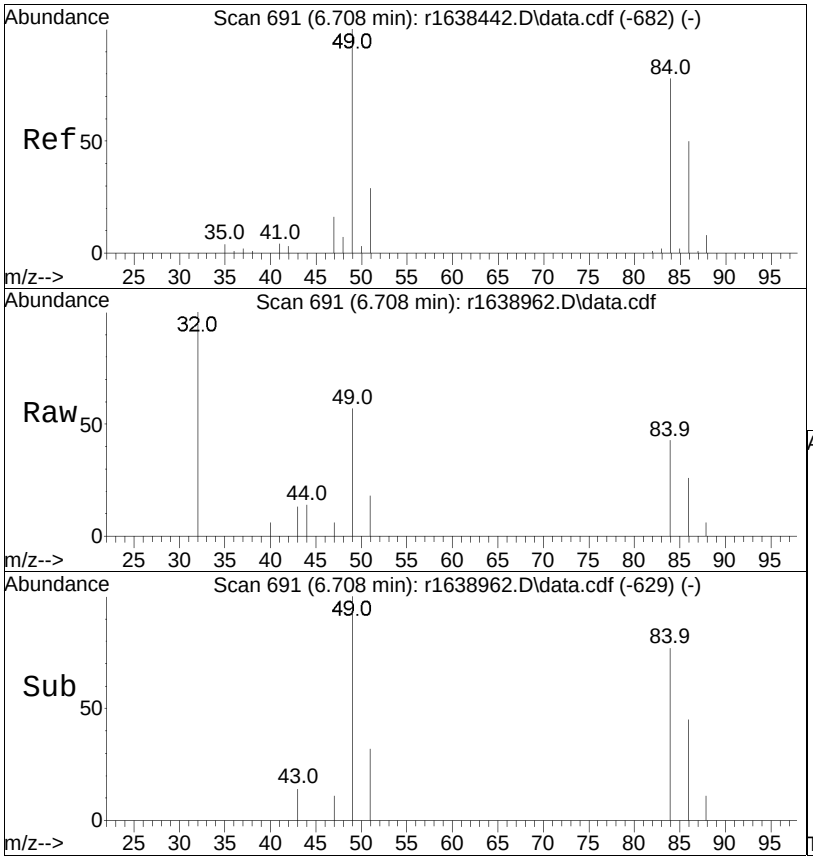


#27
tertiary butyl alcohol
Concen: 0.11 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 59 Resp: 1748

Ion	Ratio	Lower	Upper
59	100		
41	46.8	29.3	43.9#
43	0.0	10.1	15.1#

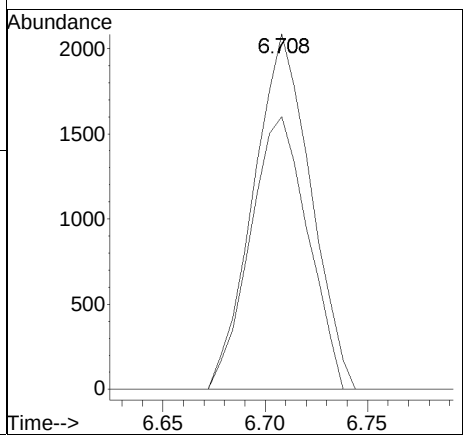


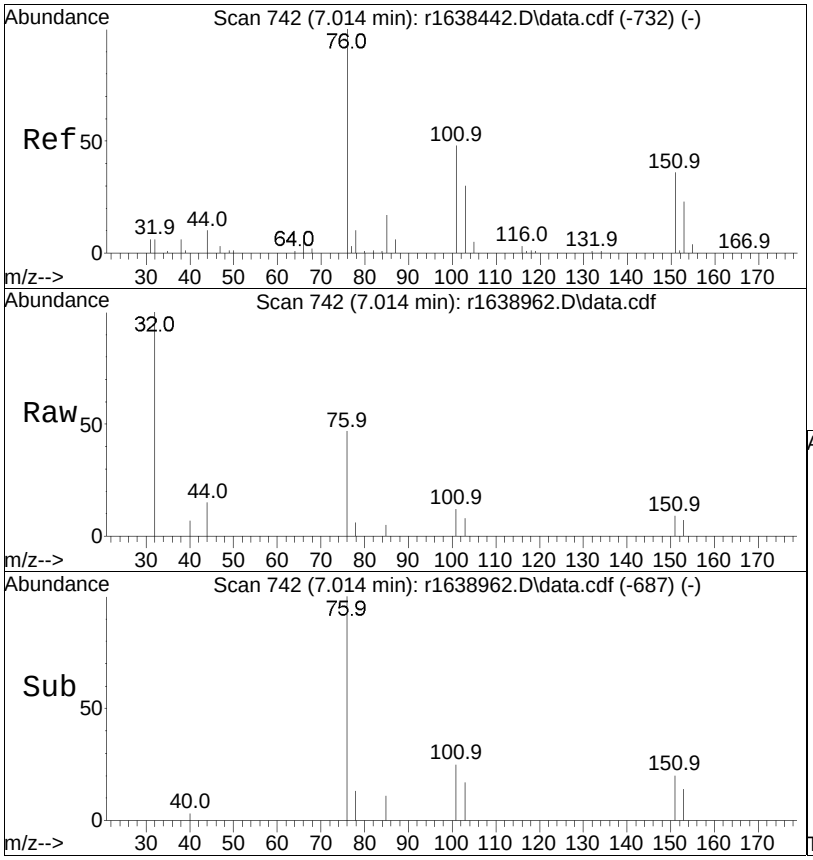


#28
methylene chloride
Concen: 0.34 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 49 Resp: 4069

Ion	Ratio	Lower	Upper
49	100		
84	76.7	62.4	93.6

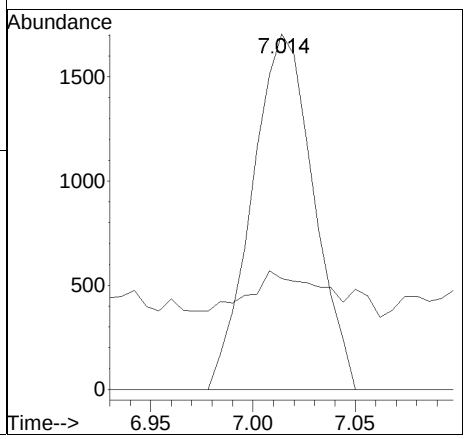


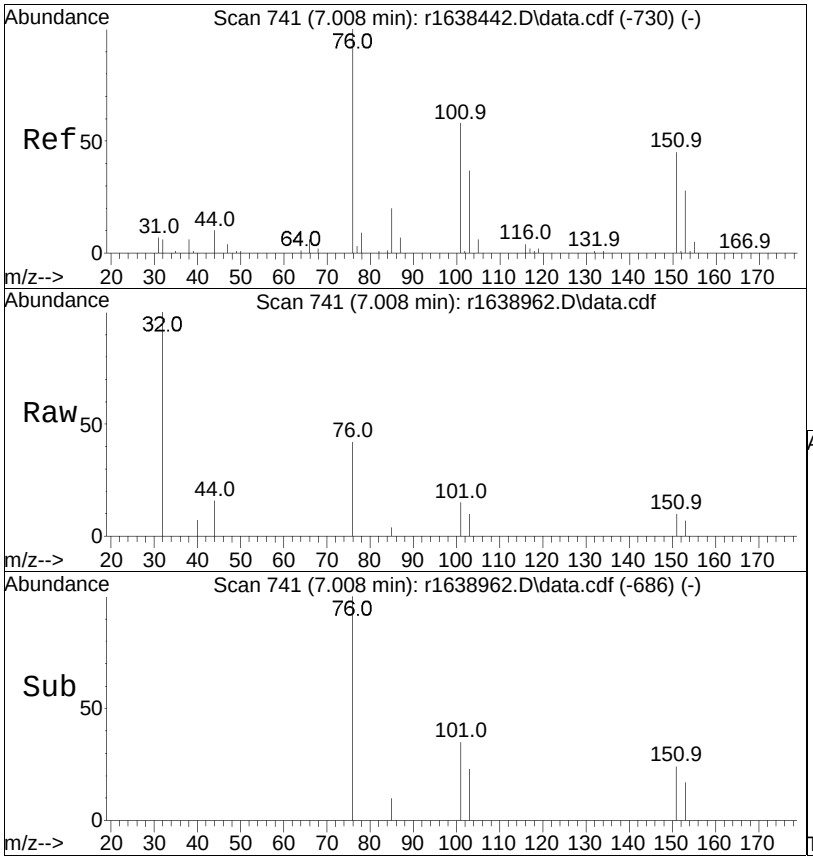


#30
carbon disulfide
Concen: 0.12 ppbV
RT: 7.014 min Scan# 742
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 76 Resp: 3553

Ion	Ratio	Lower	Upper
76	100		
44	31.2	8.6	12.8#

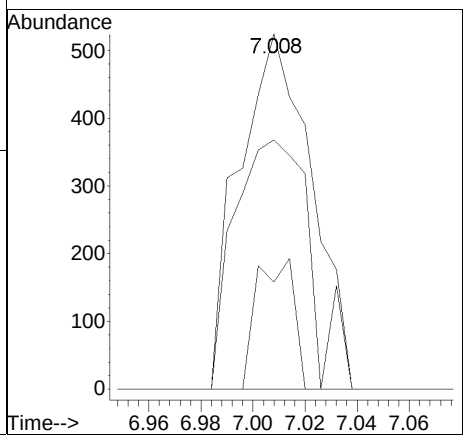


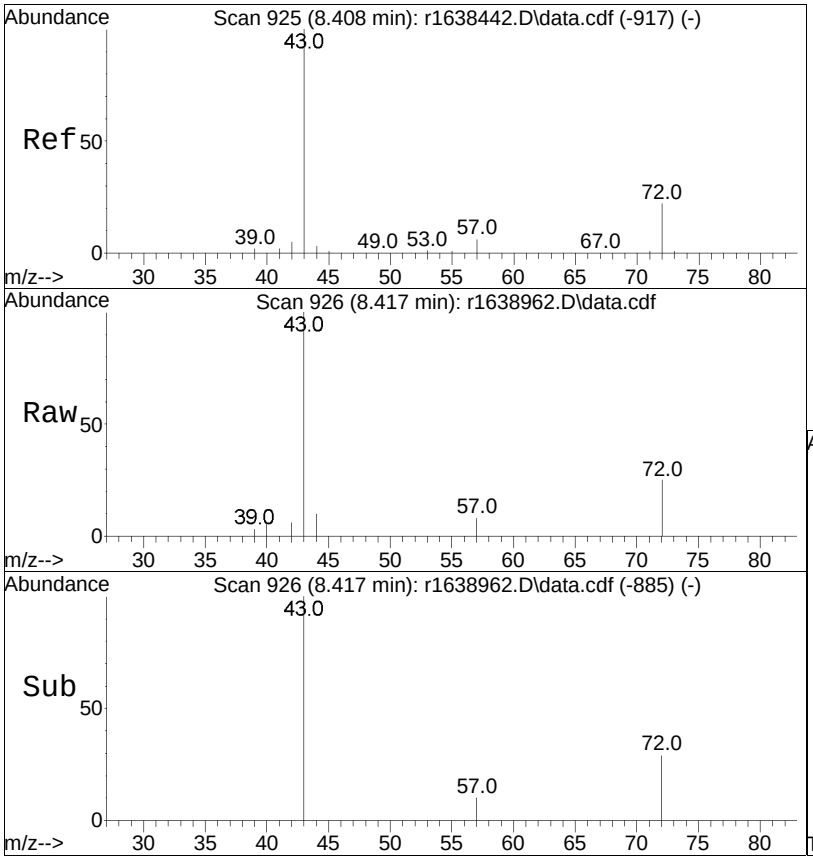


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.008 min Scan# 741
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:101 Resp: 1013

Ion	Ratio	Lower	Upper
101	100		
85	30.2	27.8	41.6
151	70.2	62.2	93.4

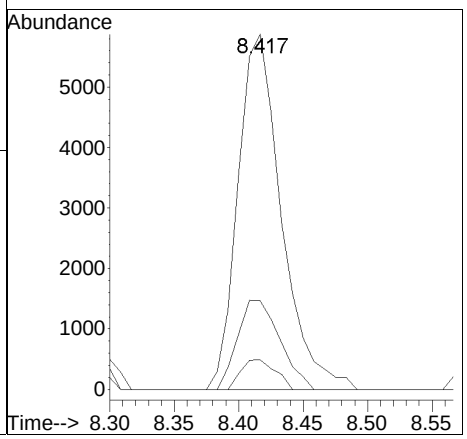


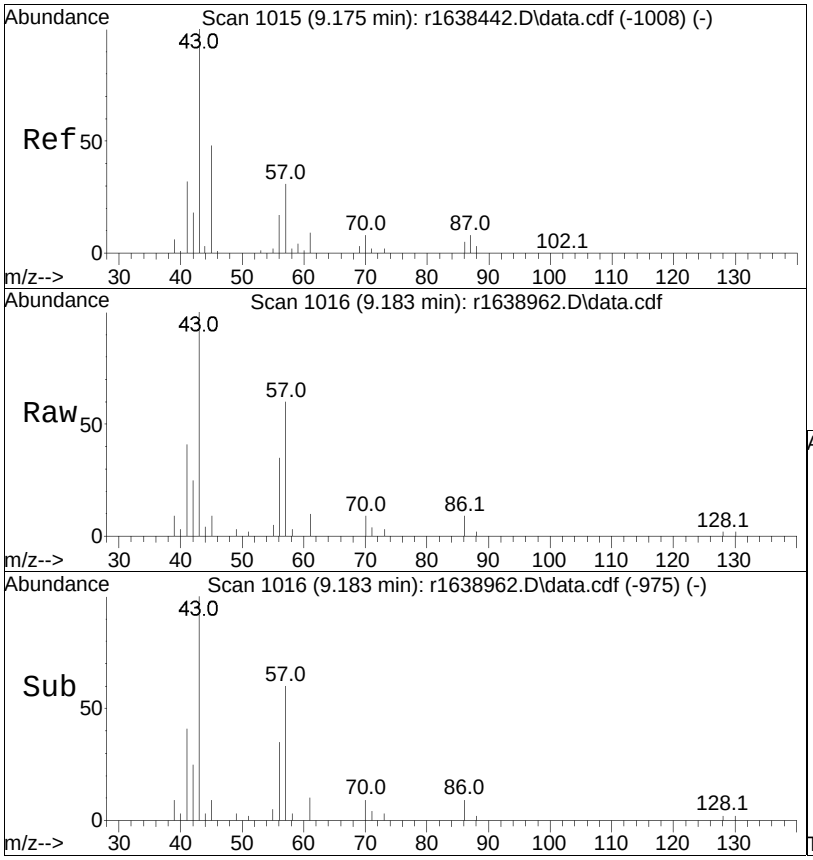


#36
2-butanone
Concen: 0.52 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 43 Resp: 13779

Ion	Ratio	Lower	Upper
43	100		
72	24.9	17.4	26.0
57	8.3	4.8	7.2#

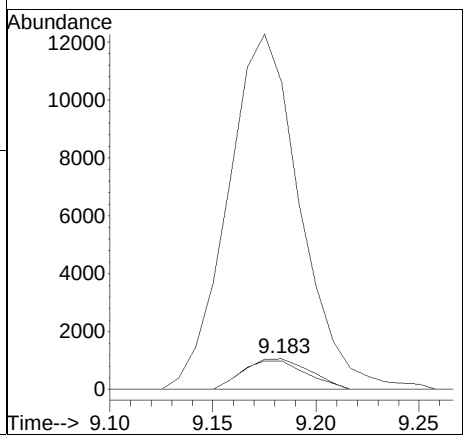


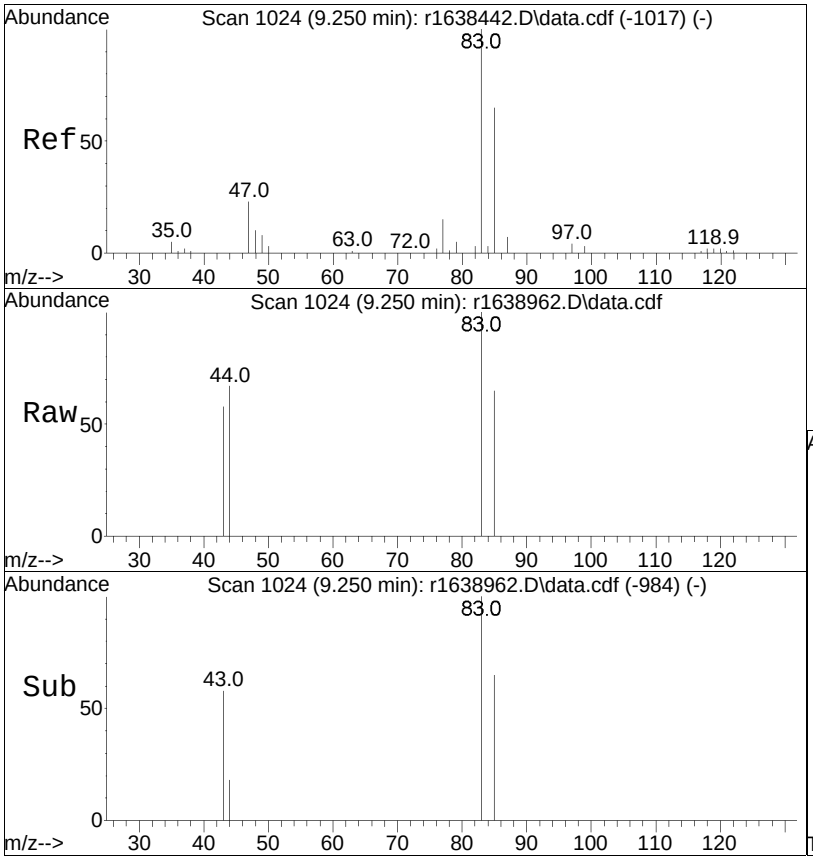


#38
Ethyl Acetate
Concen: 0.62 ppbV
RT: 9.183 min Scan# 1016
Delta R.T. 0.008 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 61 Resp: 2375

Ion	Ratio	Lower	Upper
61	100		
70	93.6	74.6	112.0
43	1002.5	942.0	1413.0

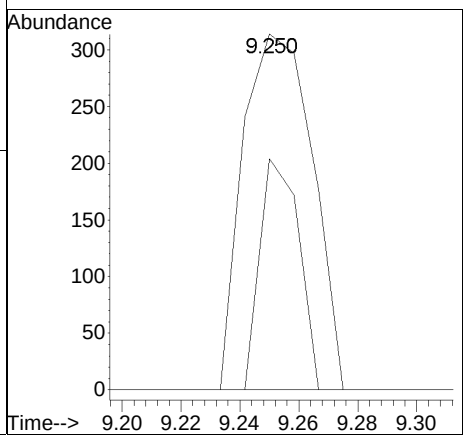


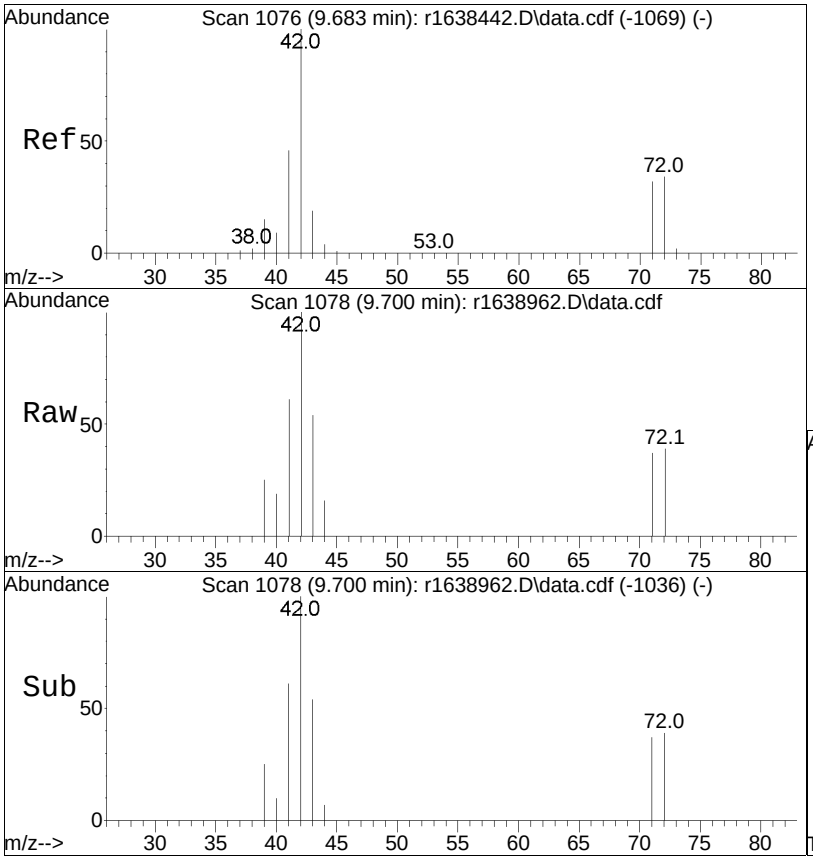


#39
chloroform
Concen: 0.03 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 83 Resp: 515

Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.9	77.9
47	0.0	18.0	27.0#

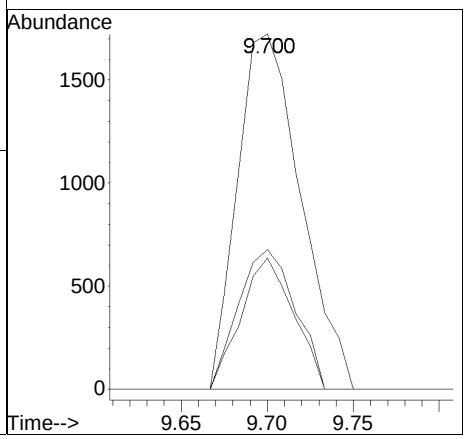


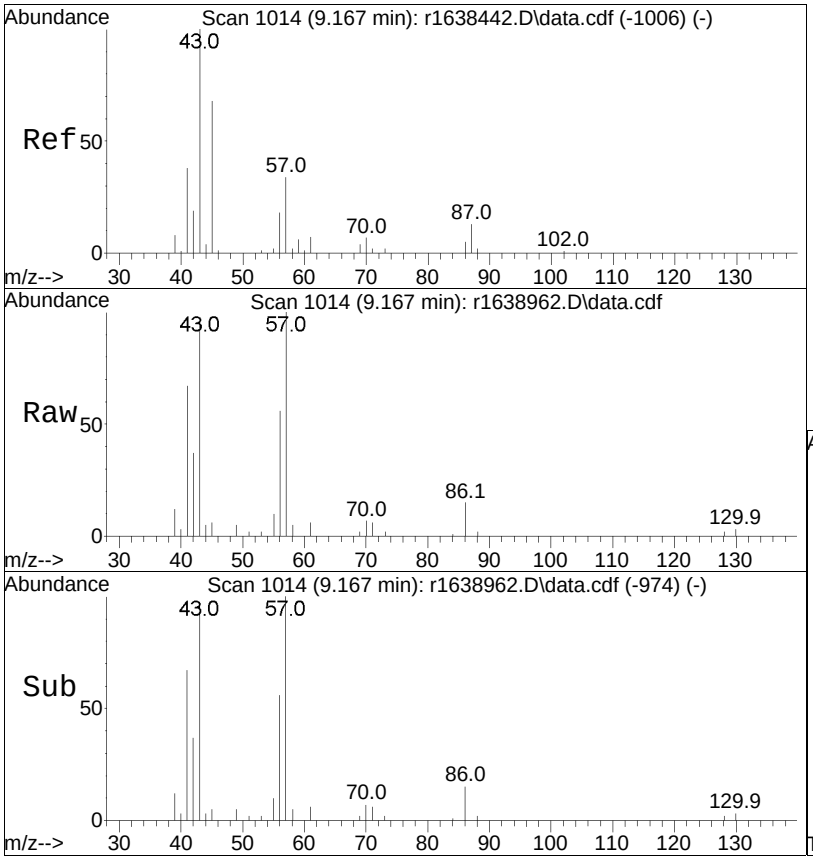


#40
Tetrahydrofuran
Concen: 0.26 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 42 Resp: 4413

Ion	Ratio	Lower	Upper
42	100		
71	37.0	25.6	38.4
72	39.3	27.4	41.2

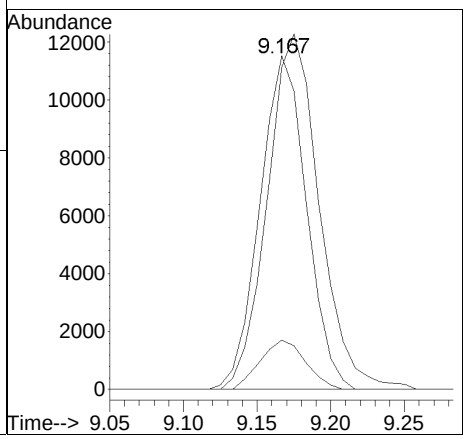


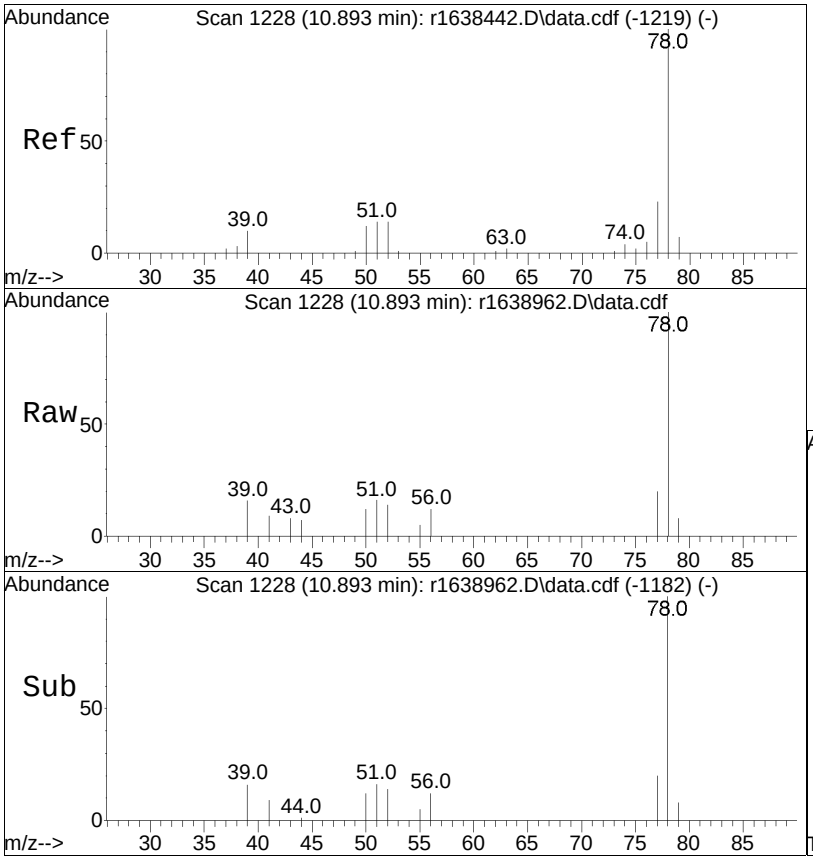


#44
hexane
Concen: 1.53 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 57 Resp: 25372

Ion	Ratio	Lower	Upper
57	100		
43	96.6	233.1	349.7#
86	14.8	12.6	18.8

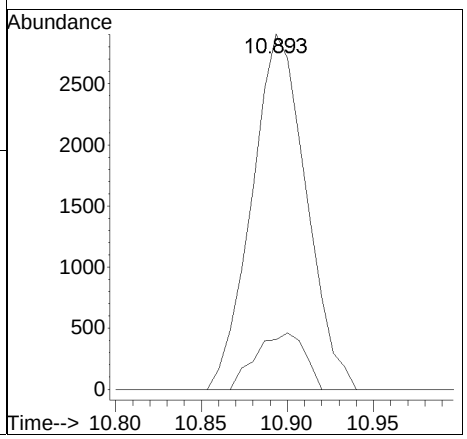


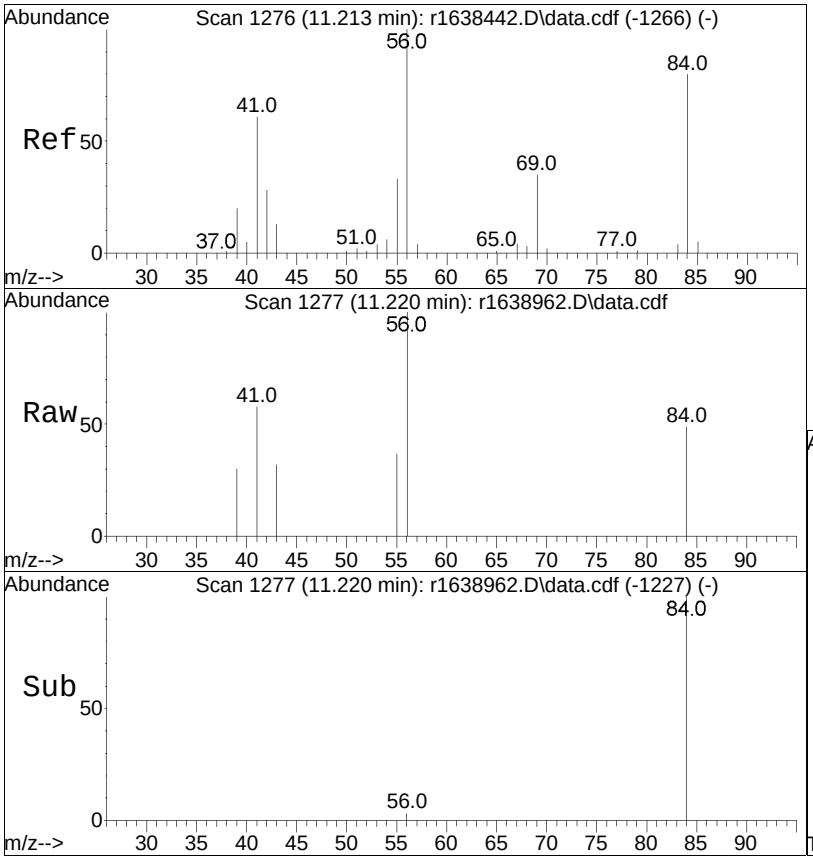


#50
benzene
Concen: 0.19 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 78 Resp: 6400

Ion	Ratio	Lower	Upper
78	100		
52	14.0	11.6	17.4

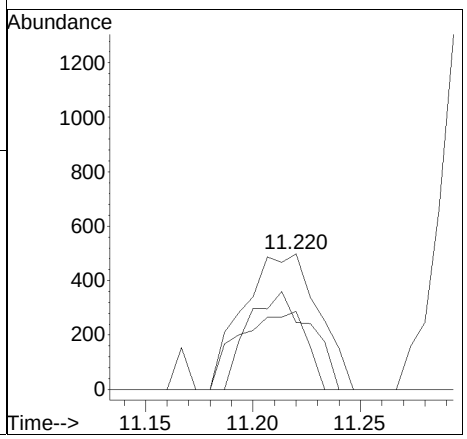


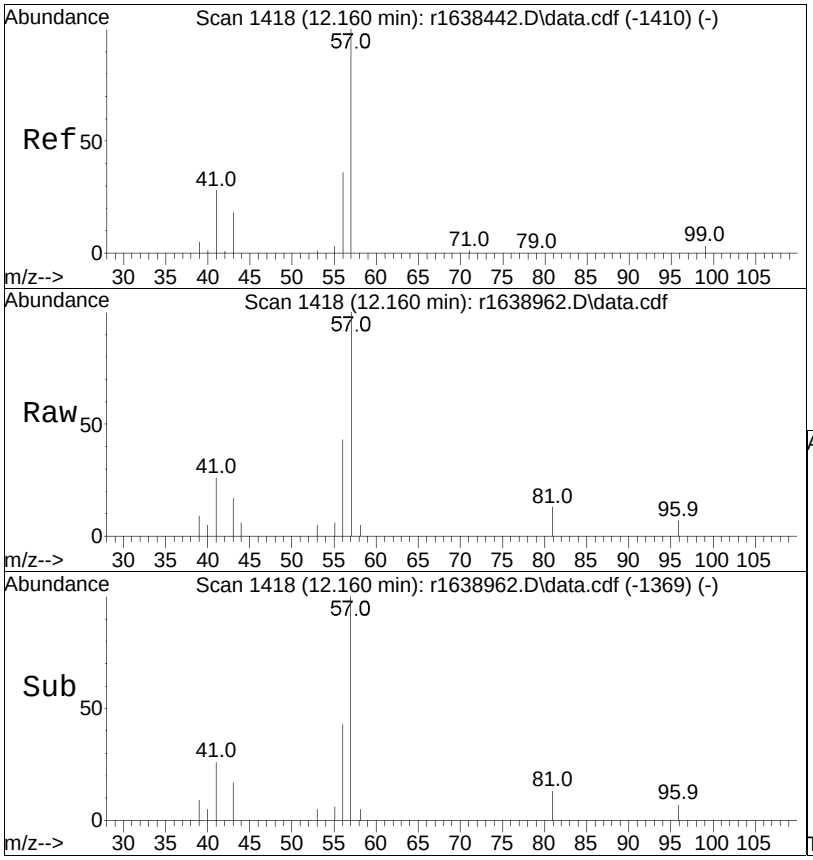


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.220 min Scan# 1277
Delta R.T. 0.007 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 56 Resp: 1210

Ion	Ratio	Lower	Upper
56	100		
84	49.4	64.2	96.4#
41	57.6	48.8	73.2

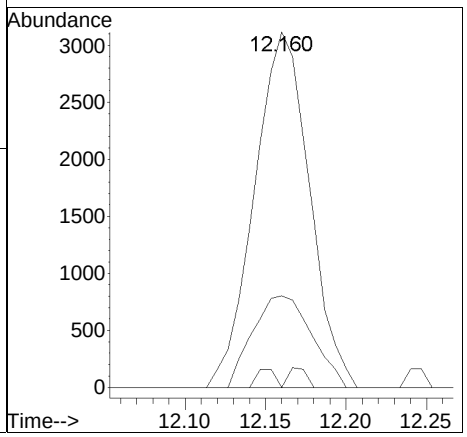


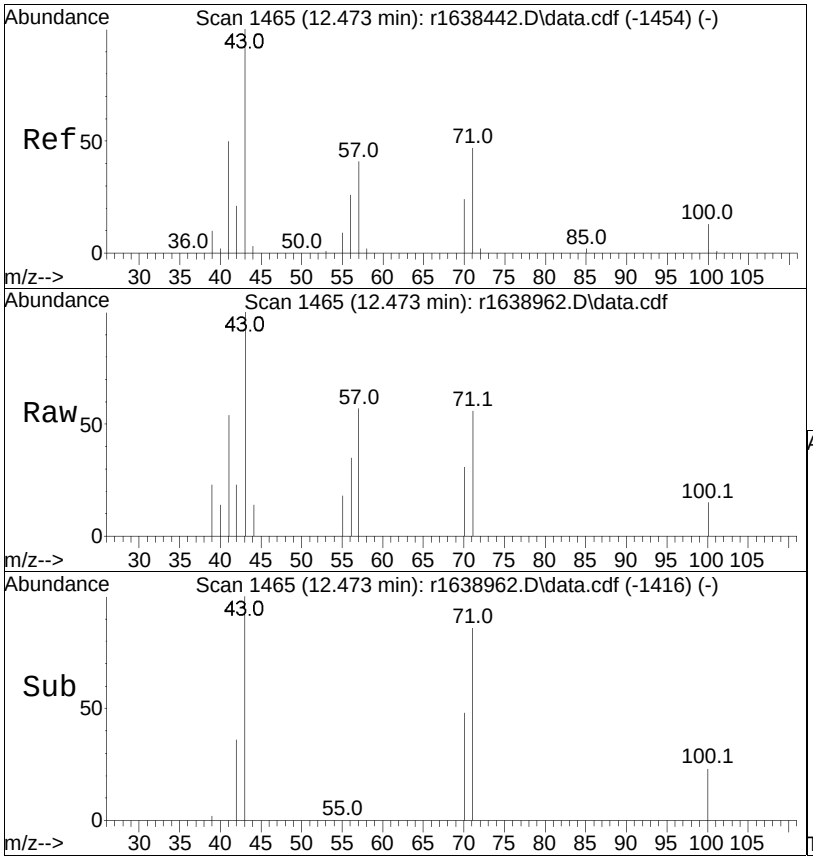


#60
2,2,4-trimethylpentane
Concen: 0.14 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 57 Resp: 7386

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.4	6.6#
41	25.8	21.9	32.9

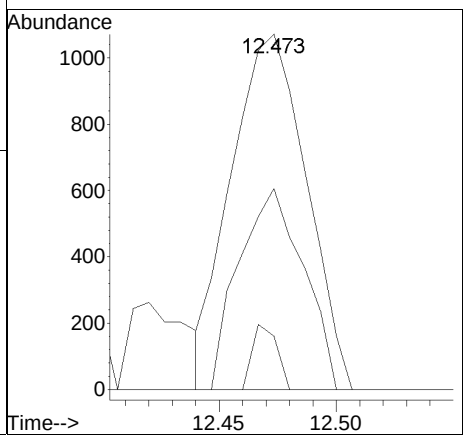


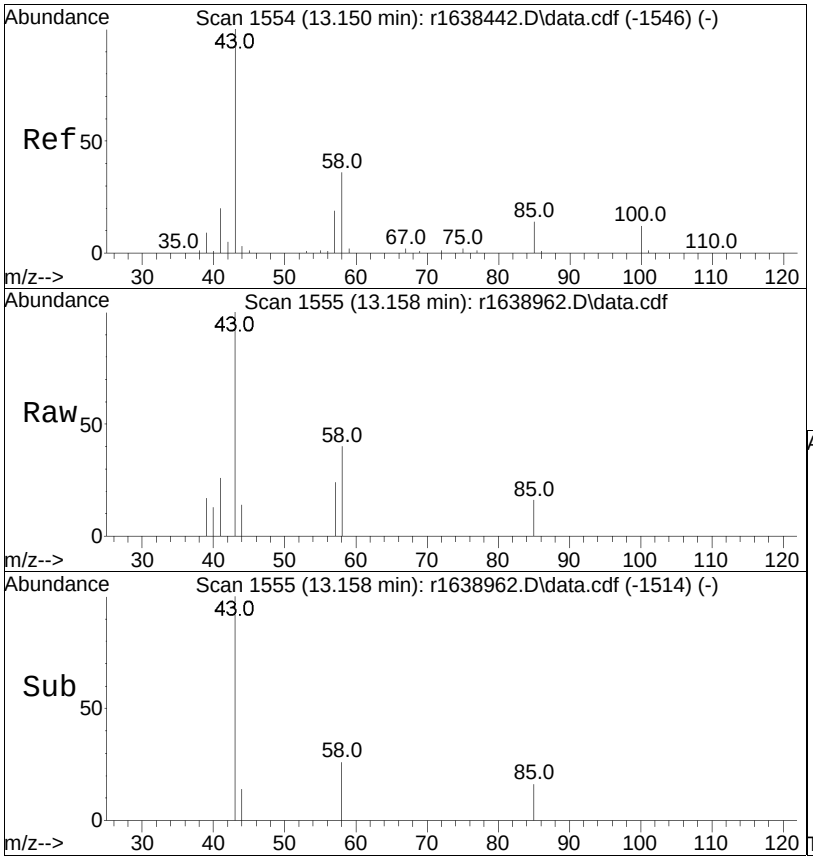


#62
heptane
Concen: 0.09 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 43 Resp: 2393

Ion	Ratio	Lower	Upper
43	100		
57	56.5	32.8	49.2#
100	15.0	10.9	16.3

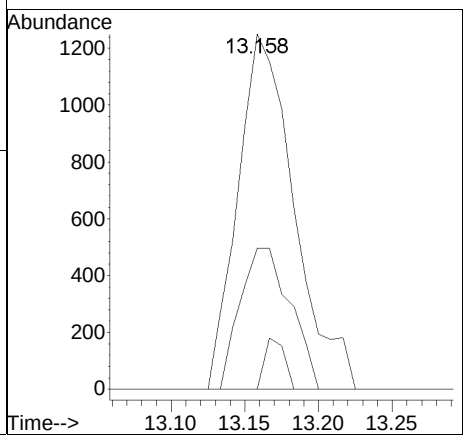


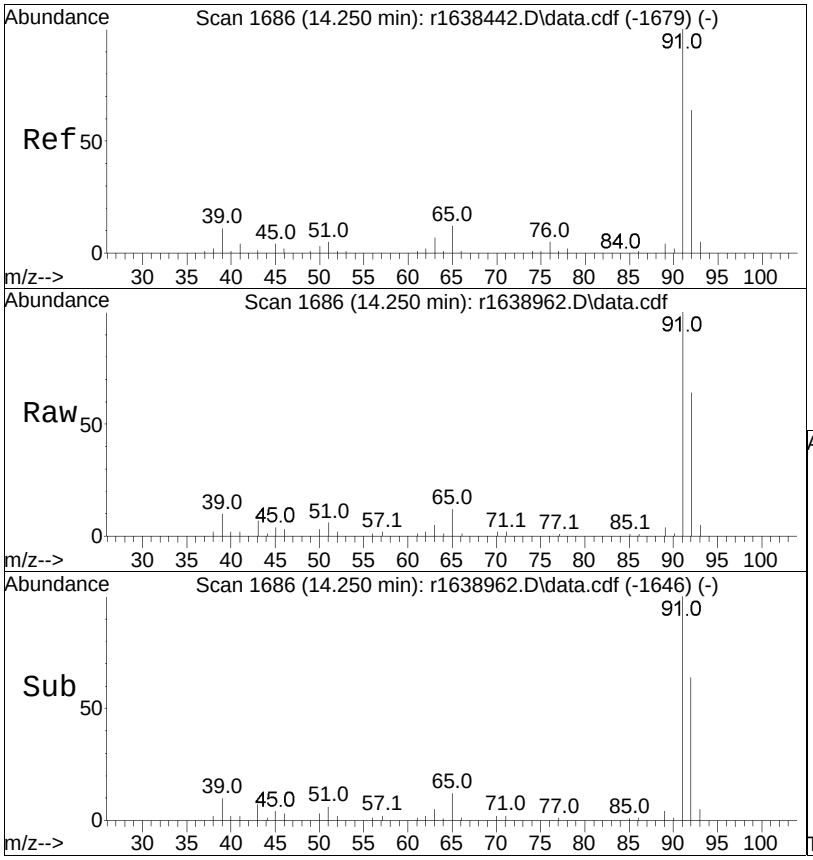


#64
4-methyl-2-pentanone
Concen: 0.11 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 43 Resp: 3335

Ion	Ratio	Lower	Upper
43	100		
58	39.7	28.6	43.0
100	0.0	9.9	14.9#

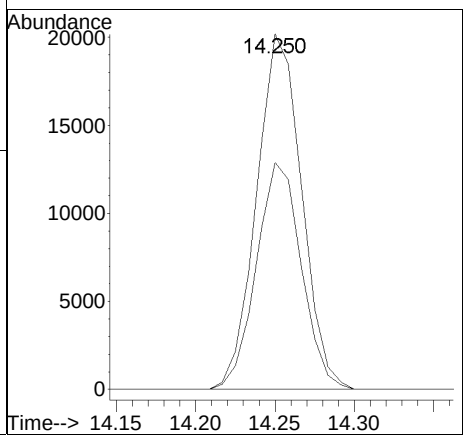


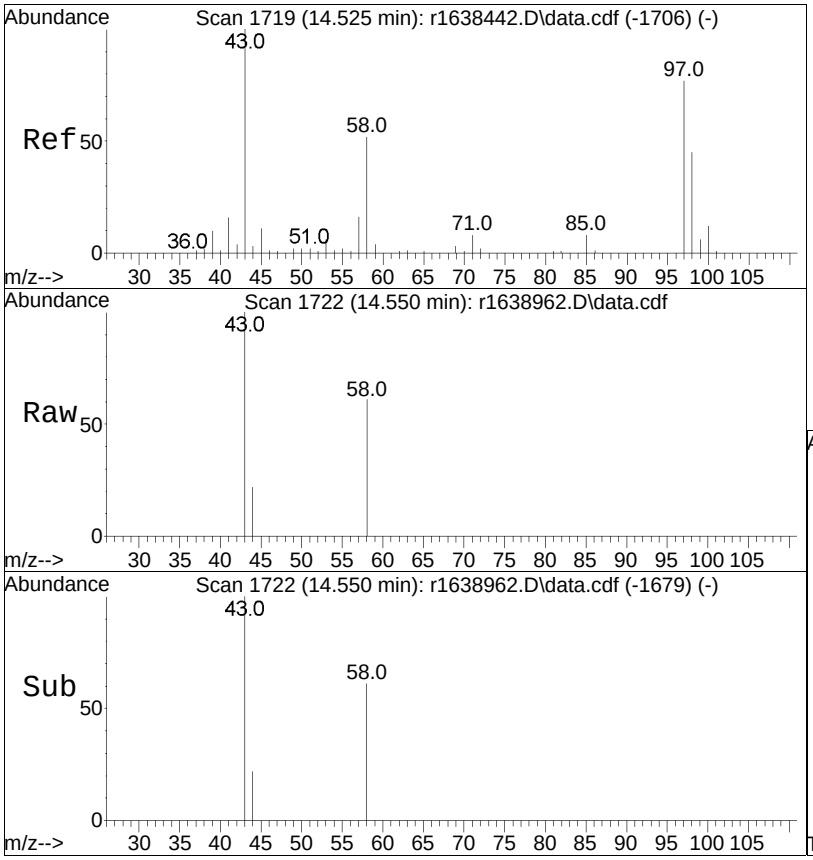


#68
toluene
Concen: 0.88 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 91 Resp: 39863

Ion	Ratio	Lower	Upper
91	100		
92	63.9	51.0	76.4

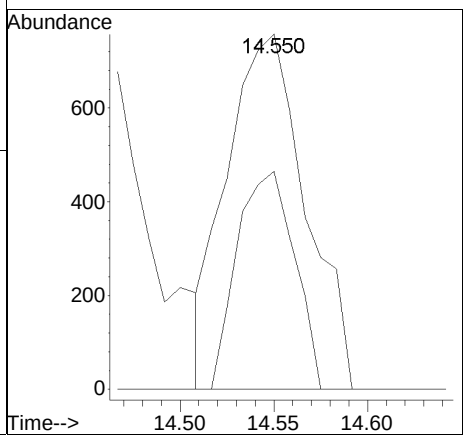


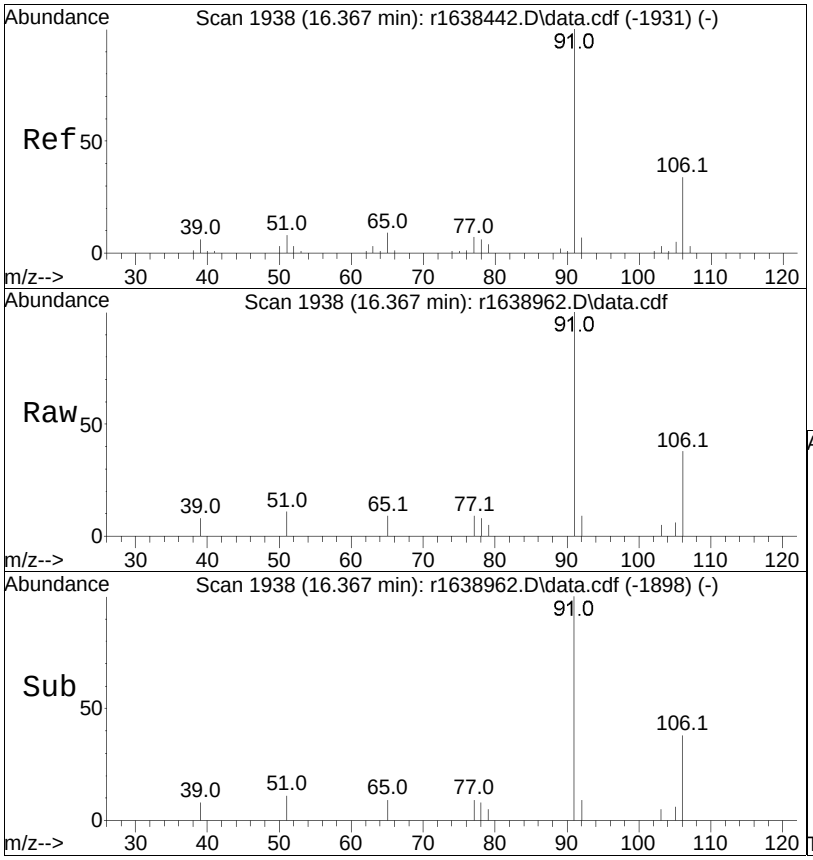


#72
2-hexanone
Concen: 0.08 ppbV
RT: 14.550 min Scan# 1722
Delta R.T. 0.025 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 43 Resp: 2212

Ion	Ratio	Lower	Upper
43	100		
58	61.3	41.4	62.2
100	0.0	9.3	13.9#

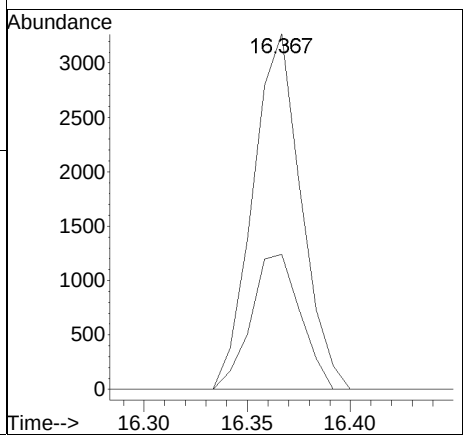


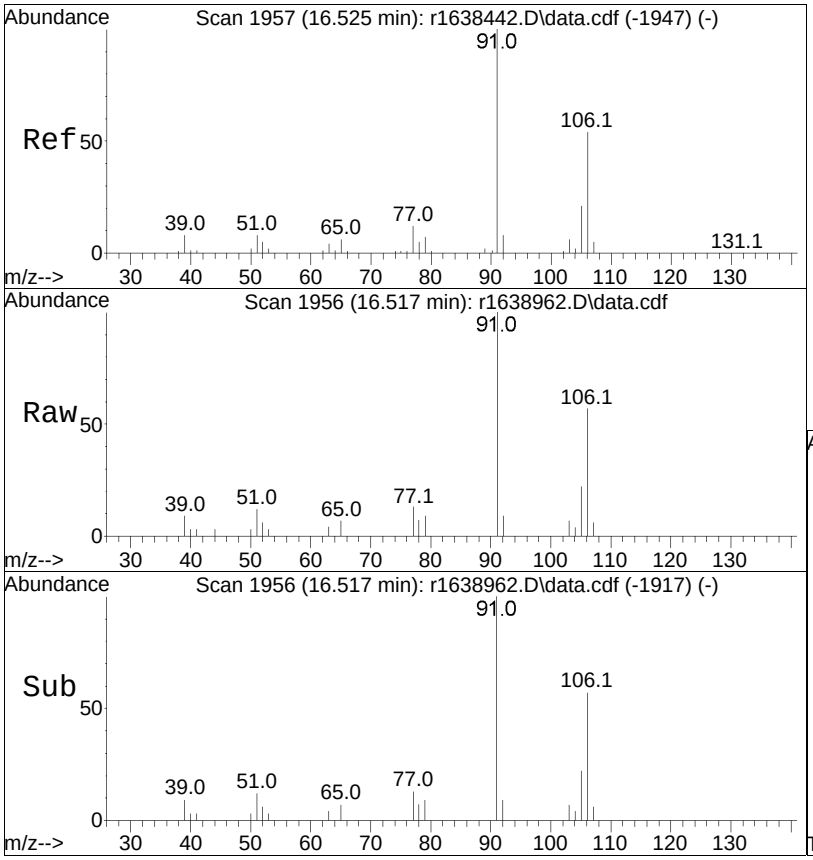


#81
ethylbenzene
Concen: 0.09 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 91 Resp: 5333

Ion	Ratio	Lower	Upper
91	100		
106	38.0	27.4	41.2

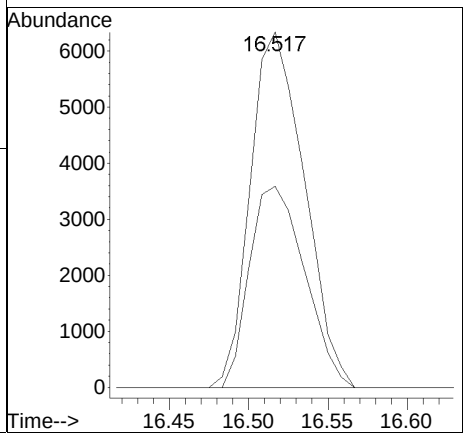


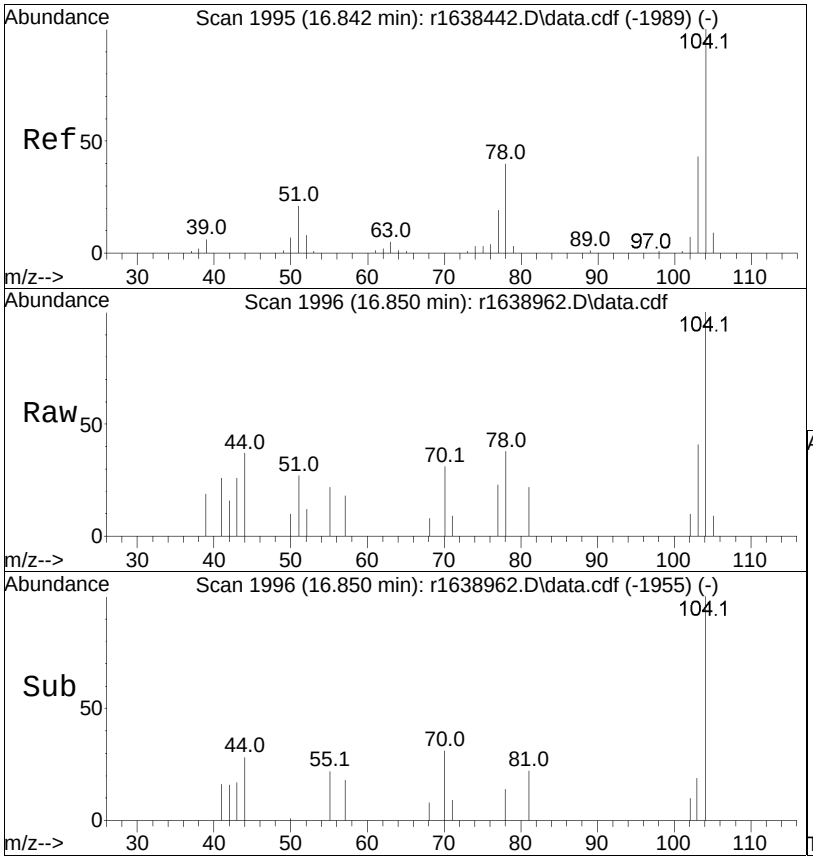


#83
m+p-xylene
Concen: 0.34 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 91 Resp: 14999

Ion	Ratio	Lower	Upper
91	100		
106	56.6	43.0	64.4

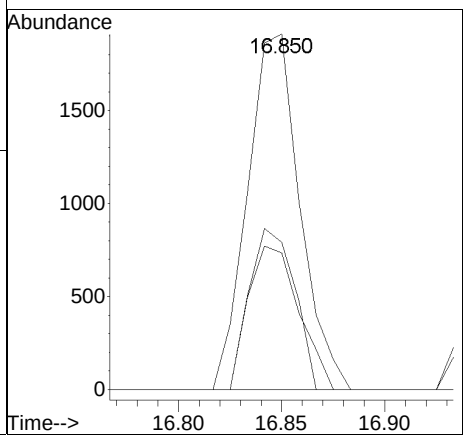


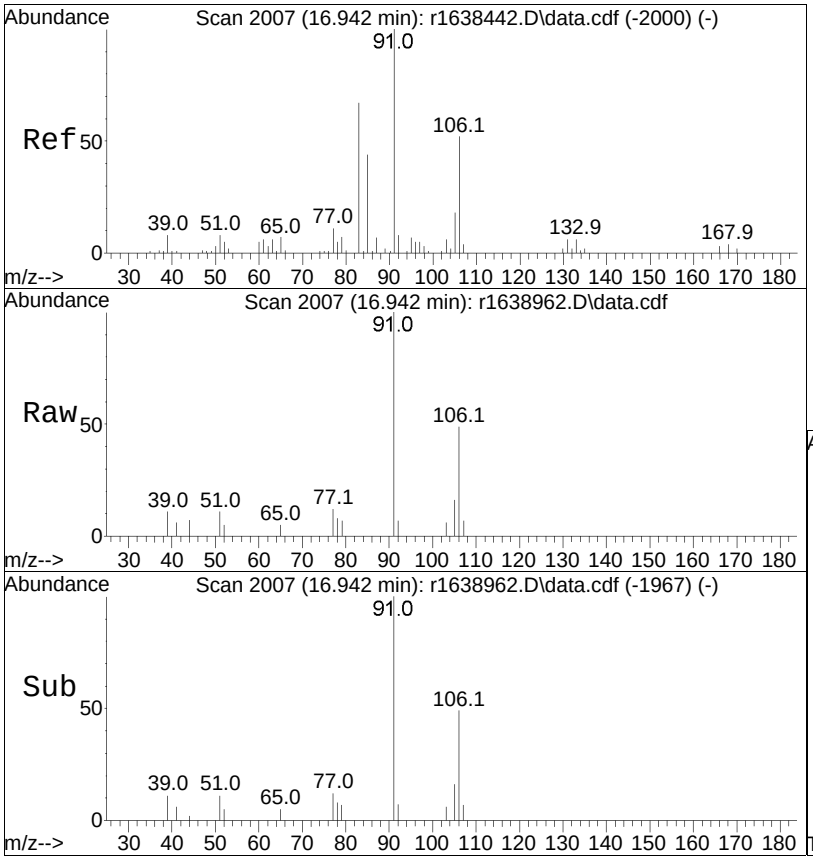


#85
styrene
Concen: 0.09 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:104 Resp: 3375

Ion	Ratio	Lower	Upper
104	100		
103	41.4	34.0	51.0
78	38.4	31.7	47.5

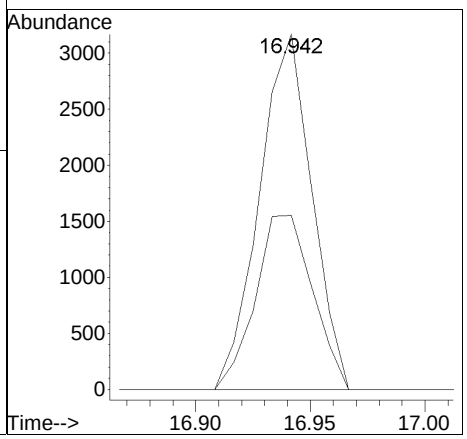


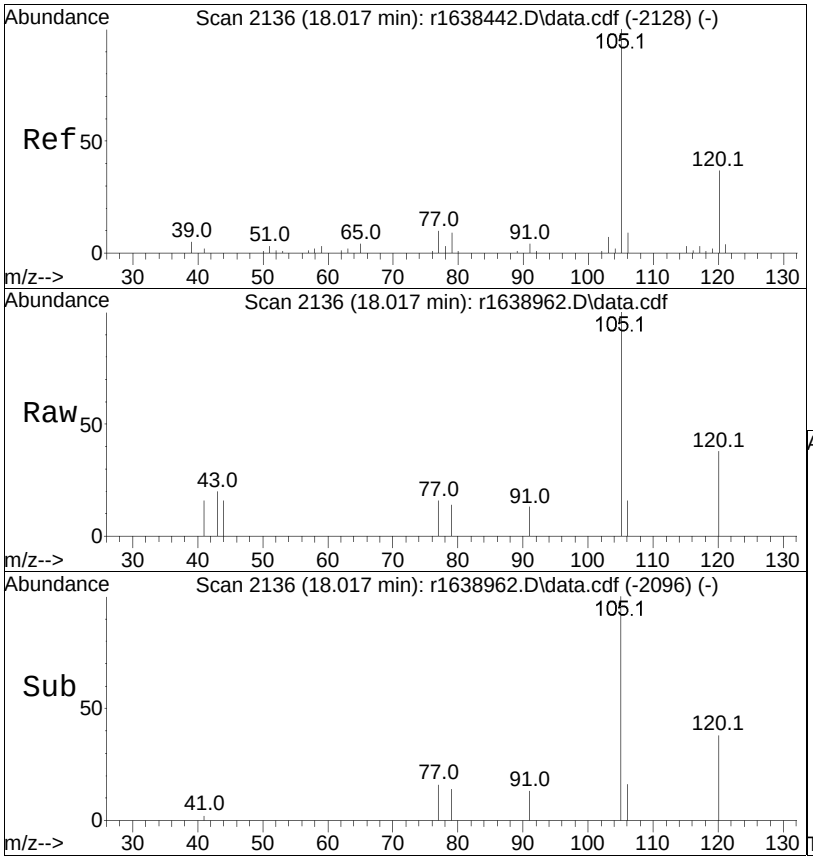


#87
o-xylene
Concen: 0.11 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion: 91 Resp: 5049

Ion	Ratio	Lower	Upper
91	100		
106	49.0	41.7	62.5

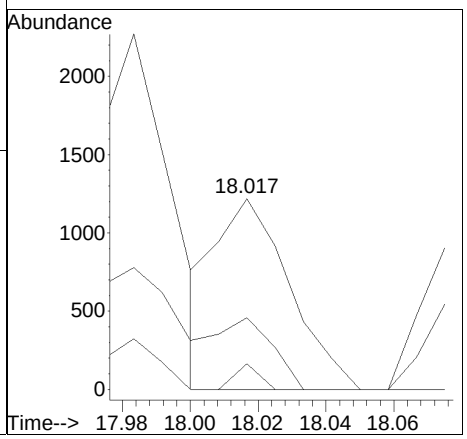


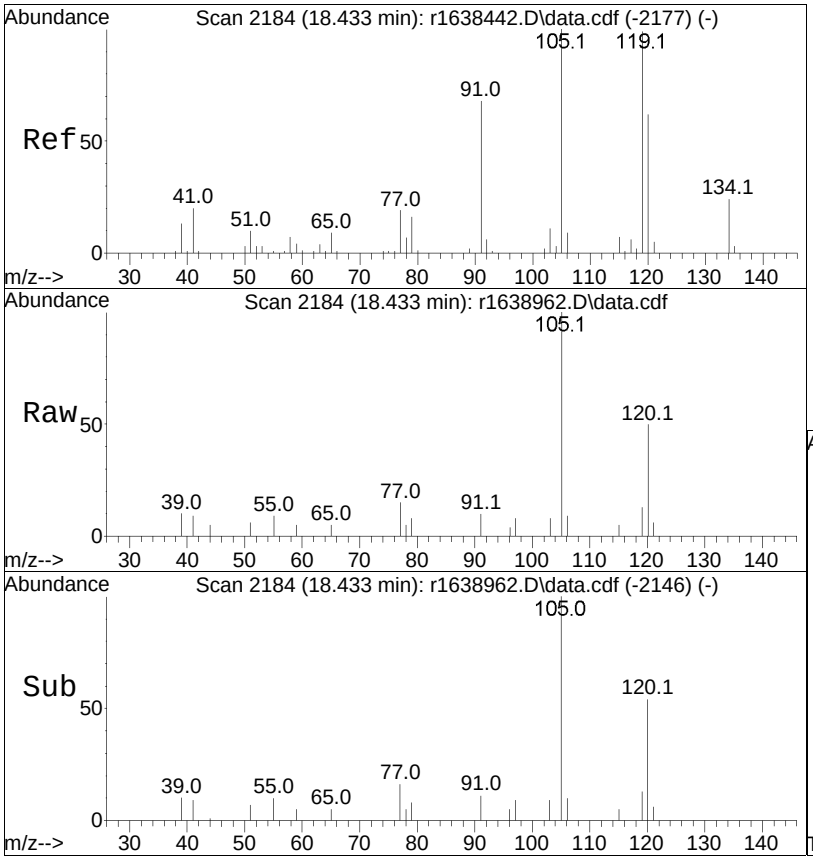


#96
4-ethyl toluene
Concen: 0.03 ppbV m
RT: 18.017 min Scan# 2136
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:105 Resp: 1855

Ion	Ratio	Lower	Upper
105	100		
120	37.6	29.7	44.5
91	13.5	7.9	11.9#

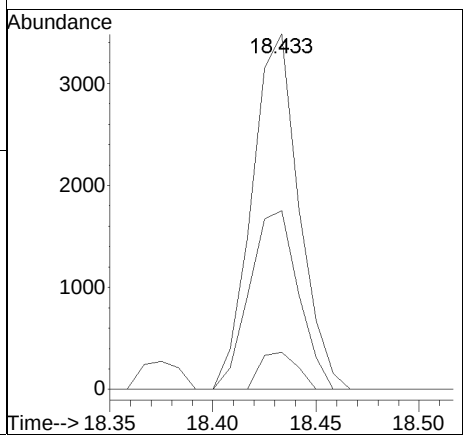




#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638962.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:105 Resp: 5556

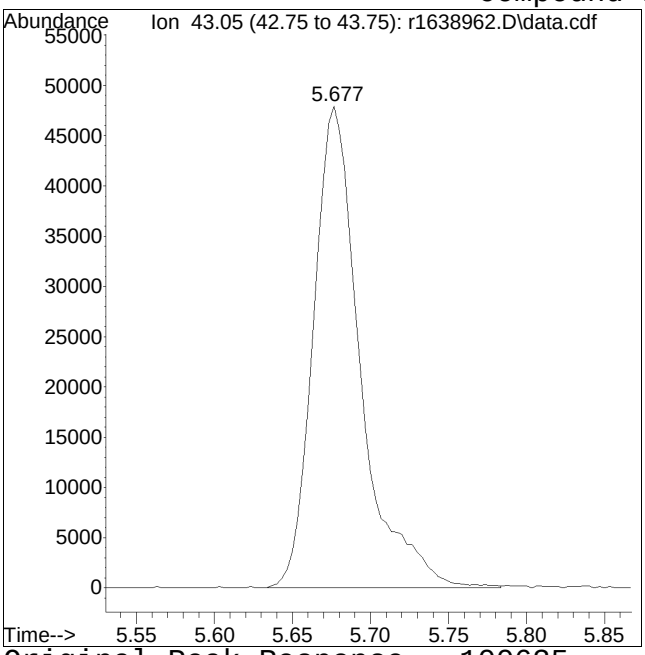
Ion	Ratio	Lower	Upper
105	100		
120	50.3	49.9	74.9
91	10.4	54.0	81.0#



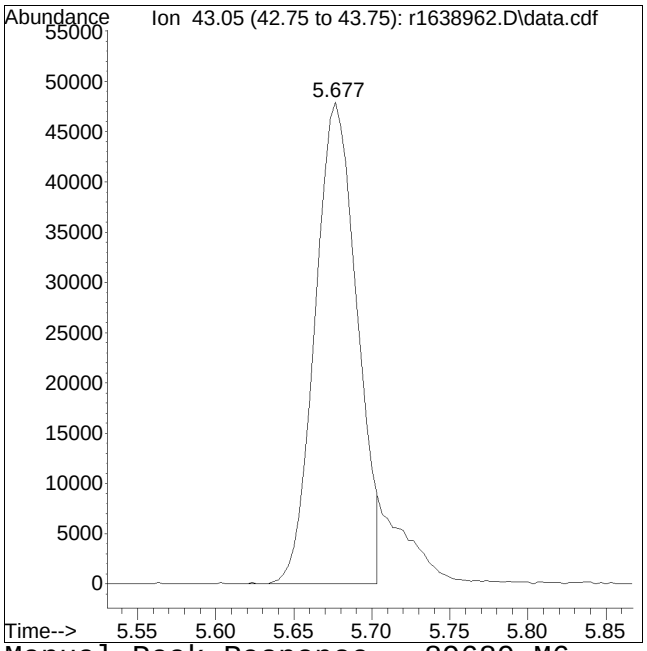
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638962.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:7: 9 Instrument :
Sample : L2347540-03,3,250,250 Quant Date : 8/23/2023 6:30 am

Compound #19: acetone



Original Peak Response = 100635



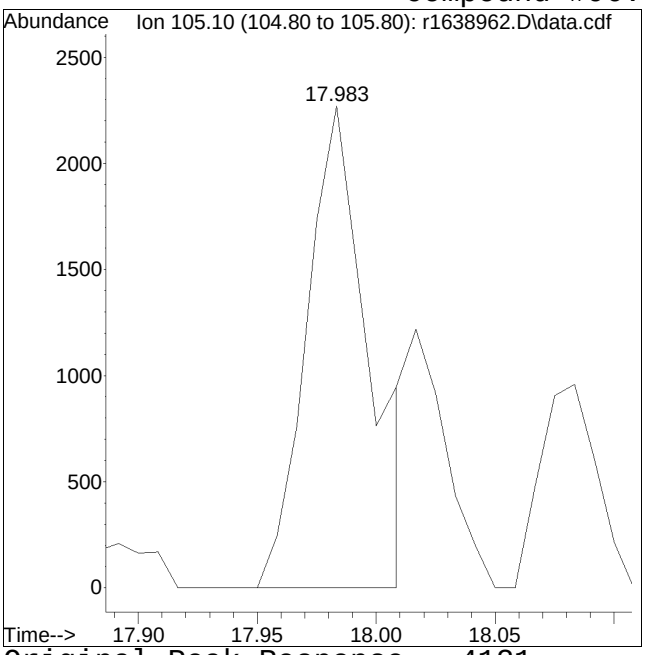
Manual Peak Response = 89680 M6

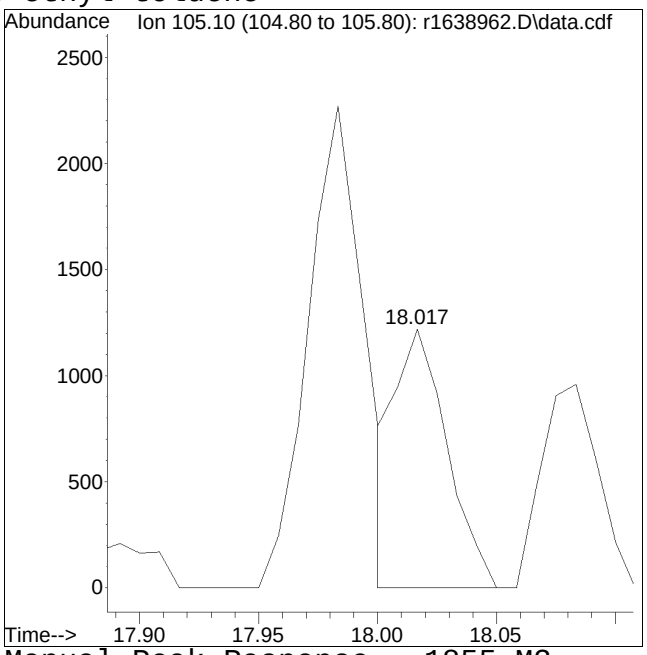
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638962.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:7: 9 Instrument :
Sample : L2347540-03,3,250,250 Quant Date : 8/23/2023 6:30 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4121 Manual Peak Response = 1855 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638963.D
Acq On : 22 Aug 2023 7:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-04,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	214620	10.000	ppbV	0.00
Standard Area = 214255			Recovery = 100.17%			
43) 1,4-difluorobenzene	11.313	114	642822	10.000	ppbV	0.00
Standard Area = 667571			Recovery = 96.29%			
67) chlorobenzene-D5	15.992	54	80571	10.000	ppbV	0.00
Standard Area = 82563			Recovery = 97.59%			
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7270	0.457	ppbV	98
6) chloromethane	4.192	50	3964	0.442	ppbV	97
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	440748	77.866	ppbV	89
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.677	43	98008M6	8.581	ppbV	
21) trichlorofluoromethane	5.873	101	2332	0.208	ppbV	92
22) isopropyl alcohol	5.950	45	56305	3.409	ppbV #	97
27) tertiary butyl alcohol	6.612	59	1413	0.088	ppbV #	74
28) methylene chloride	6.708	49	7311	0.596	ppbV	94
29) 3-chloropropene	6.714		0	N.D.		
30) carbon disulfide	7.008	76	1682	0.055	ppbV #	1
31) Freon 113	7.002	101	941	0.047	ppbV #	79
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.	d	
36) 2-butanone	8.417	43	10723	0.396	ppbV #	91
38) Ethyl Acetate	9.183	61	2540	0.650	ppbV	93
39) chloroform	9.250	83	565	0.033	ppbV #	81
40) Tetrahydrofuran	9.700	42	3009	0.175	ppbV	93
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	54115	3.200	ppbV #	1
50) benzene	10.893	78	6635	0.191	ppbV	99
53) cyclohexane	11.213	56	1265	0.070	ppbV	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638963.D
Acq On : 22 Aug 2023 7:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-04,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

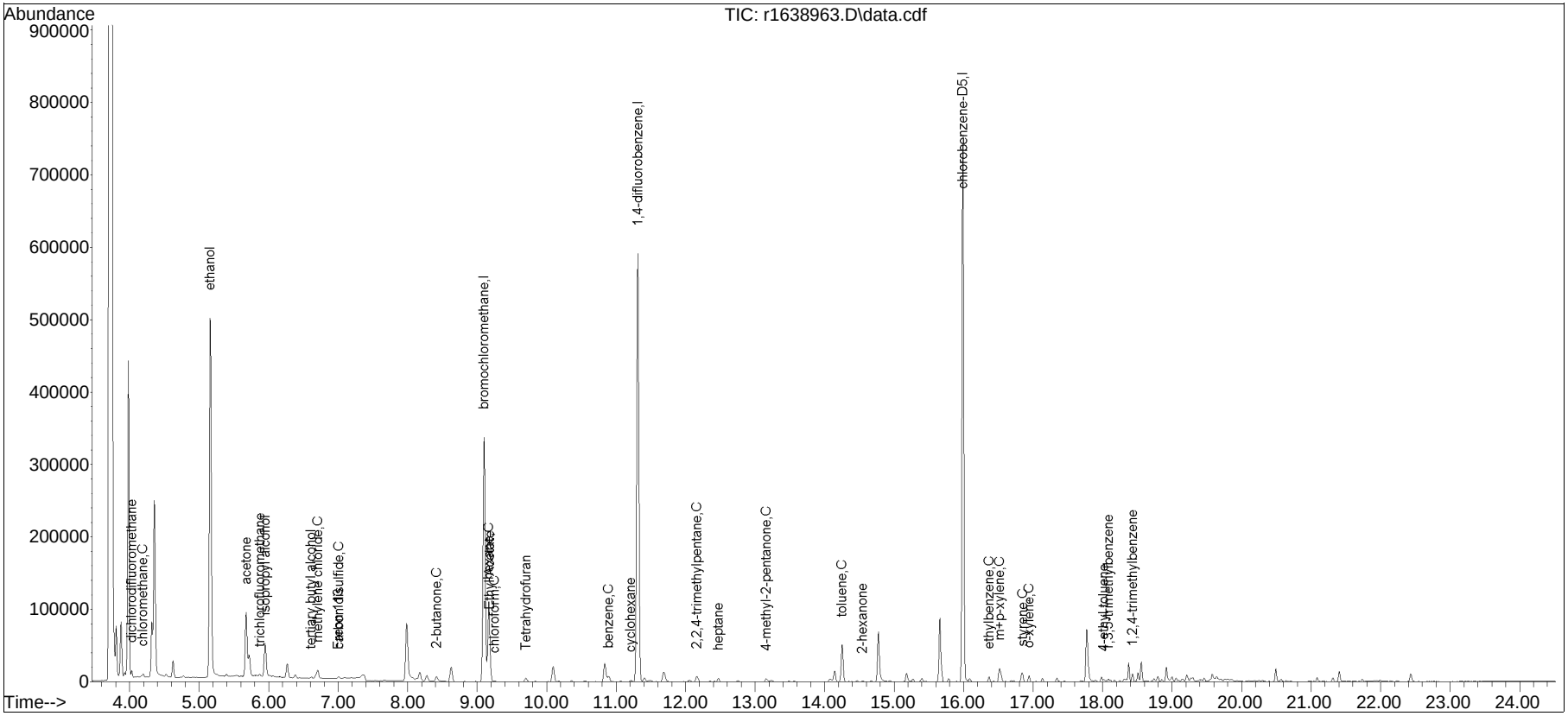
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.160	57	7331	0.133	ppbV	#	94
62)	heptane	12.473	43	2233	0.086	ppbV	#	83
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.158	43	4284	0.142	ppbV	#	92
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.250	91	40597	0.895	ppbV		99
72)	2-hexanone	14.542	43	1194	0.040	ppbV	#	34
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	0.000		0	N.D.			
81)	ethylbenzene	16.367	91	5682	0.100	ppbV		95
83)	m+p-xylene	16.517	91	15780	0.353	ppbV		95
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.850	104	3793	0.102	ppbV		97
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	16.942	91	5222	0.117	ppbV		97
96)	4-ethyl toluene	18.017	105	2087M3	0.034	ppbV		
97)	1,3,5-trimethylbenzene	18.083	105	2100	0.040	ppbV	#	89
99)	1,2,4-trimethylbenzene	18.433	105	6304	0.122	ppbV	#	58
101)	Benzyl Chloride	18.625		0	N.D.			
102)	1,3-dichlorobenzene	18.625		0	N.D.			
103)	1,4-dichlorobenzene	18.625		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
119)	hexachlorobutadiene	0.000		0	N.D.			

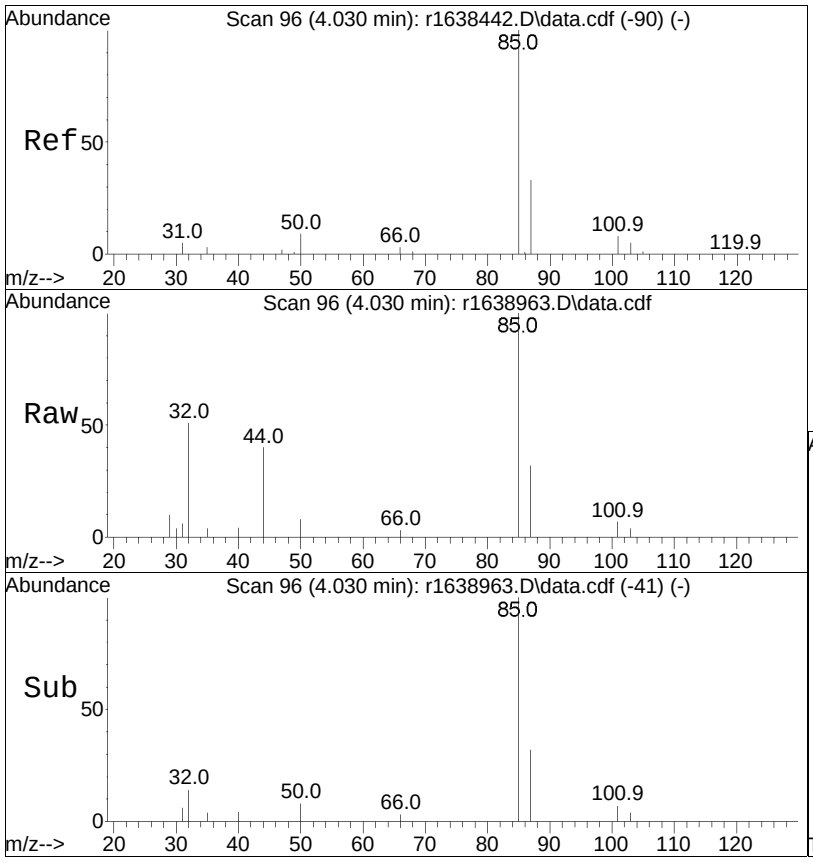
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638963.D
Acq On : 22 Aug 2023 7:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-04,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

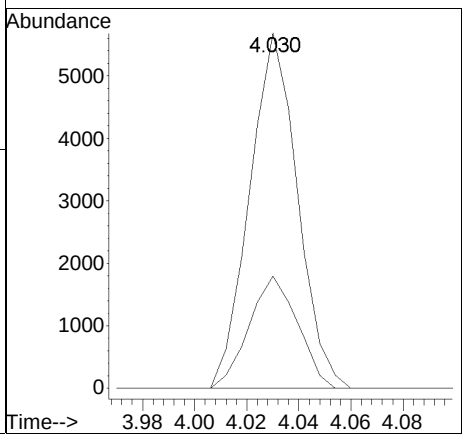


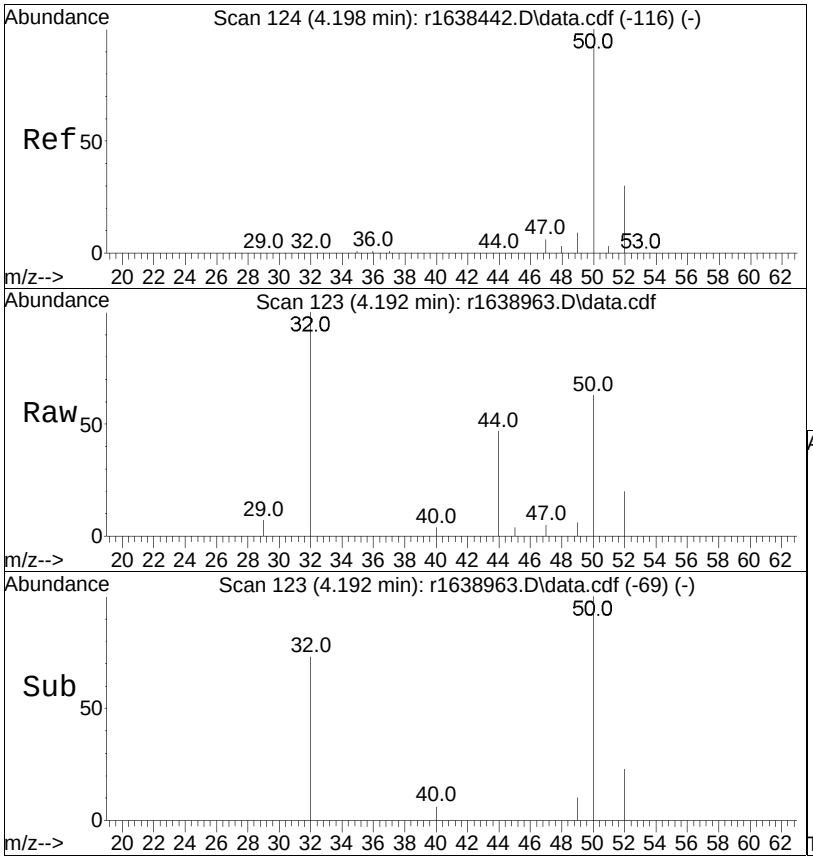


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 85 Resp: 7270

Ion	Ratio	Lower	Upper
85	100		
87	31.6	26.2	39.2

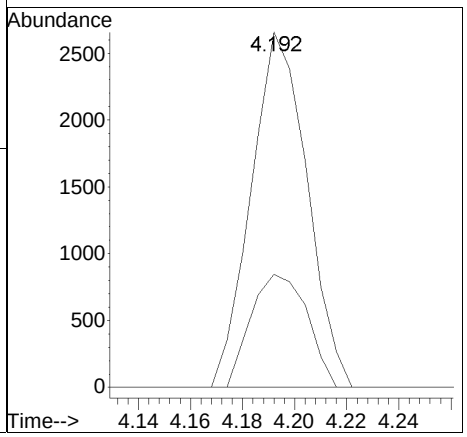


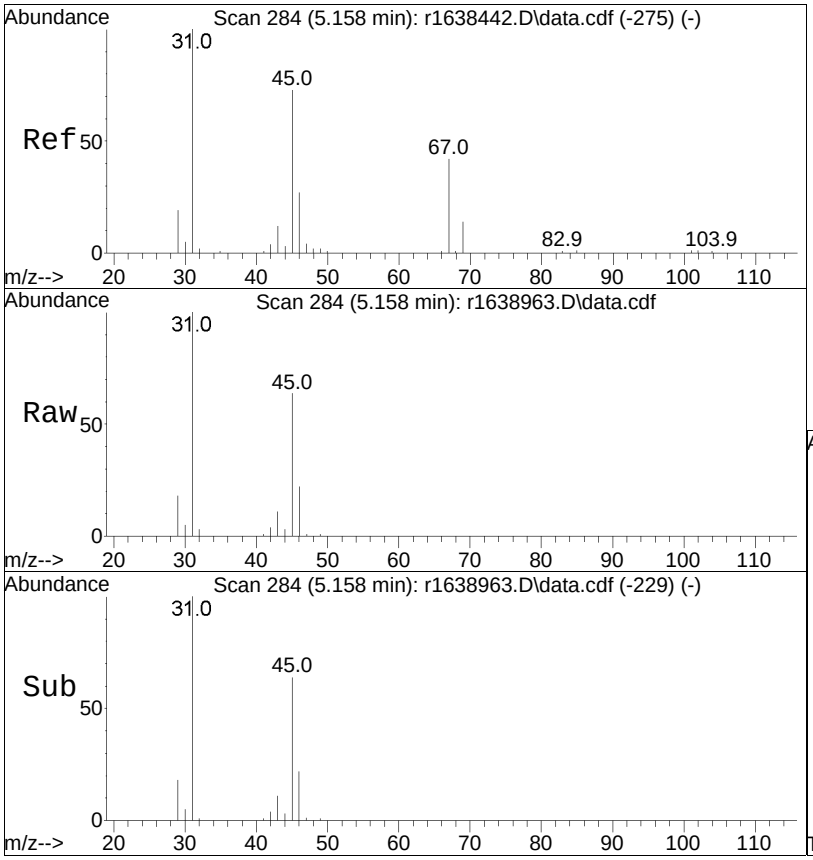


#6
chloromethane
Concen: 0.44 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 50 Resp: 3964

Ion	Ratio	Lower	Upper
50	100		
52	31.8	24.3	36.5

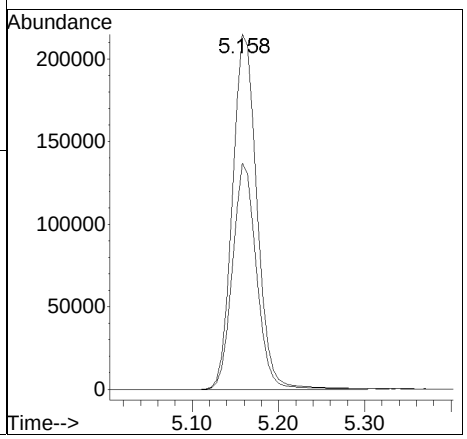


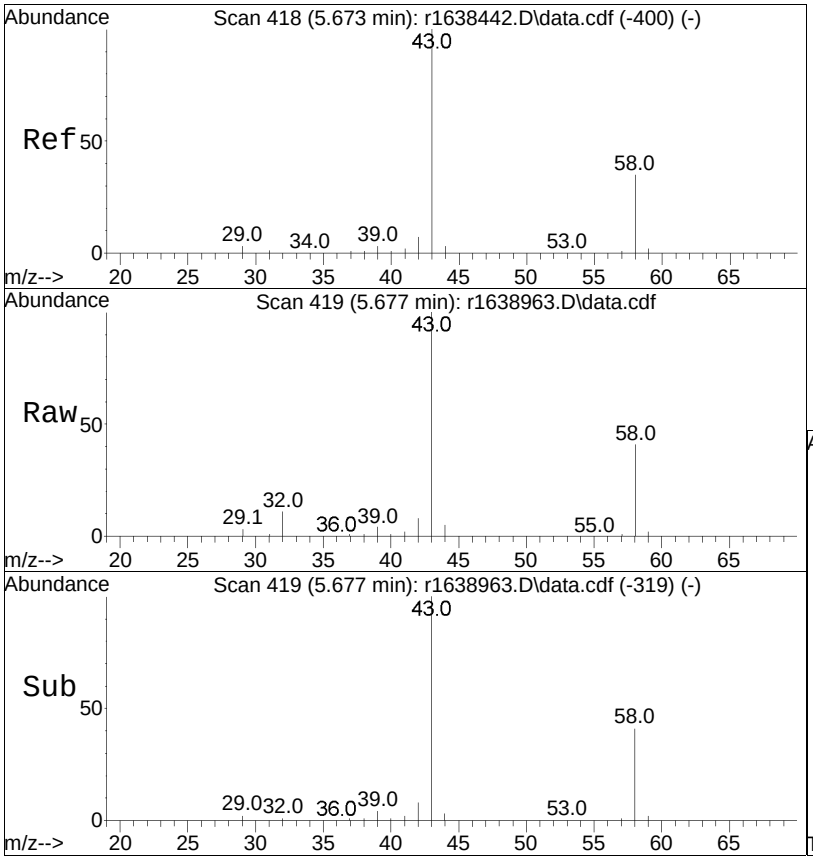


#15
ethanol
Concen: 77.87 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 31 Resp: 440748

Ion	Ratio	Lower	Upper
31	100		
45	63.7	58.6	87.8

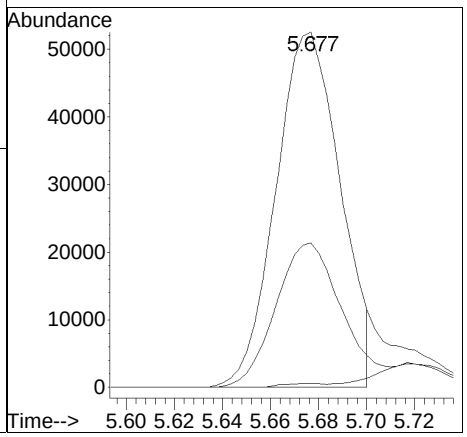


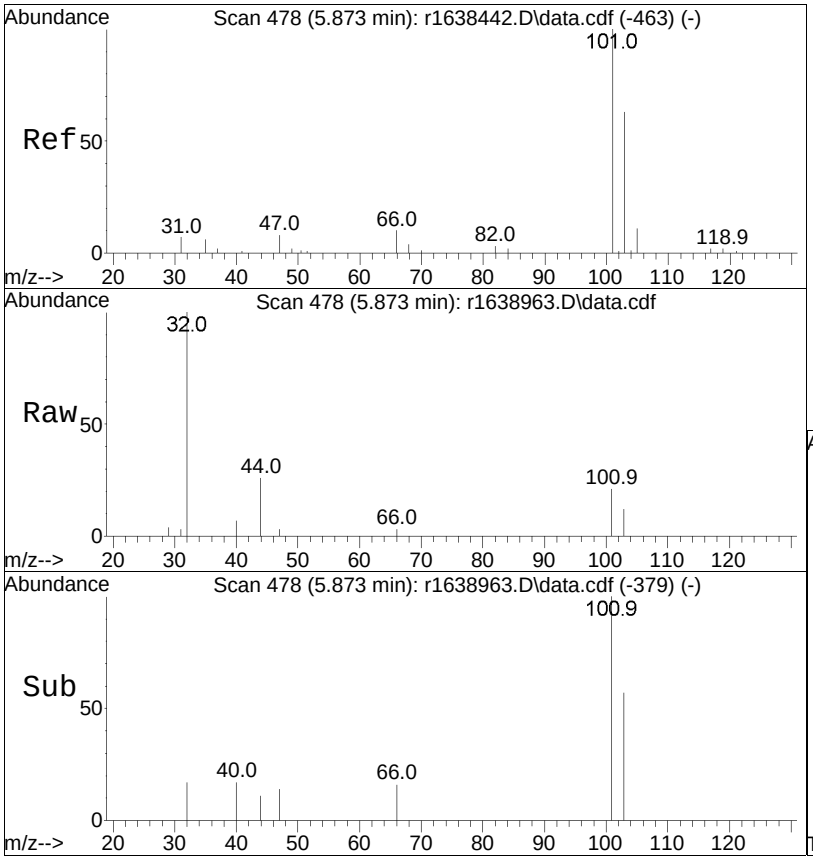


#19
acetone
Concen: 8.58 ppbV m
RT: 5.677 min Scan# 419
Delta R.T. 0.003 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 43 Resp: 98008

Ion	Ratio	Lower	Upper
43	100		
58	40.7	28.3	42.5
57	1.1	0.6	1.0#

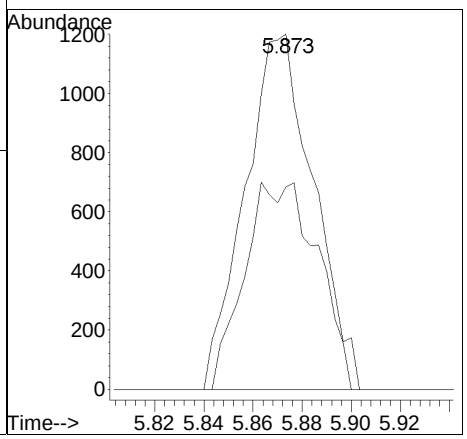


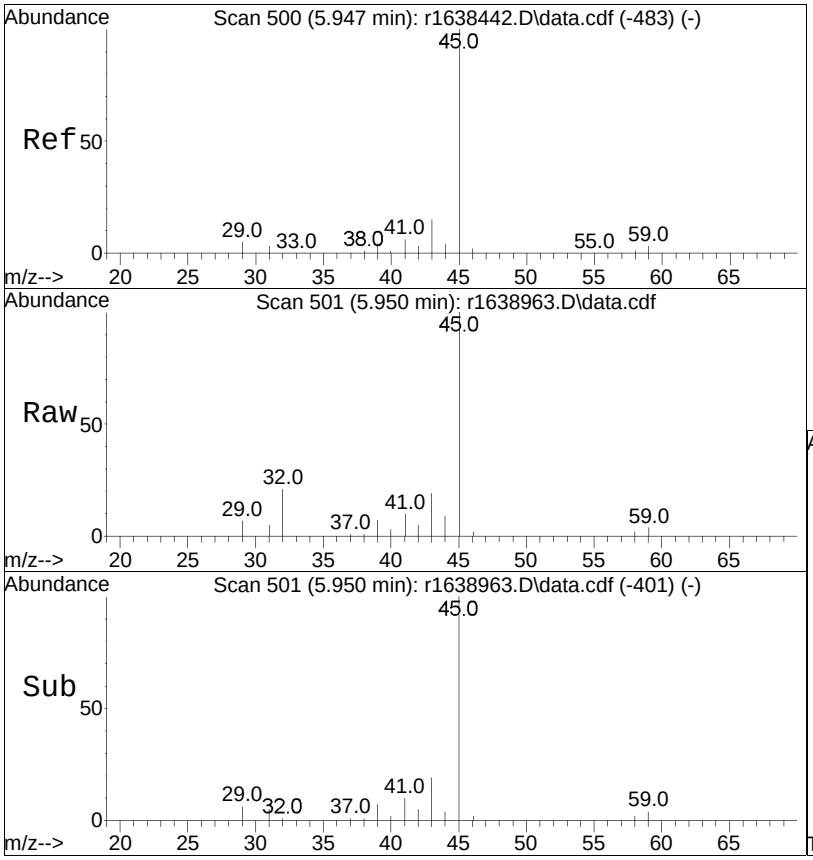


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:101 Resp: 2332

Ion	Ratio	Lower	Upper
101	100		
103	57.0	50.6	76.0

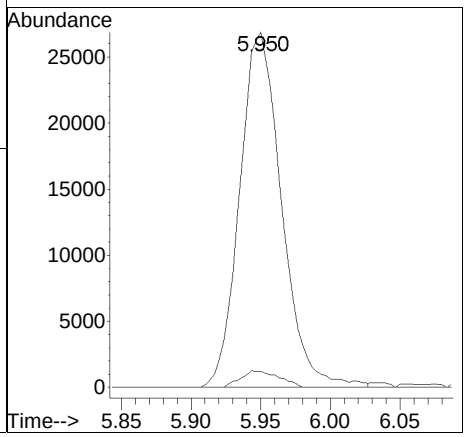


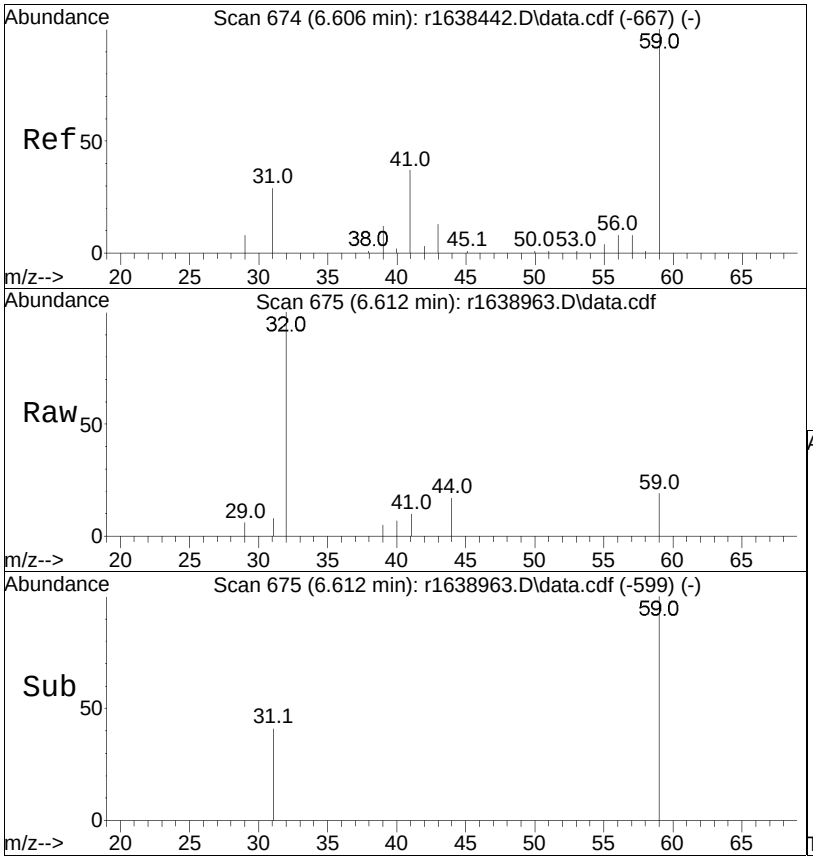


#22
isopropyl alcohol
Concen: 3.41 ppbV
RT: 5.950 min Scan# 501
Delta R.T. 0.003 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 45 Resp: 56305

Ion	Ratio	Lower	Upper
45	100		
59	4.5	2.8	4.2#

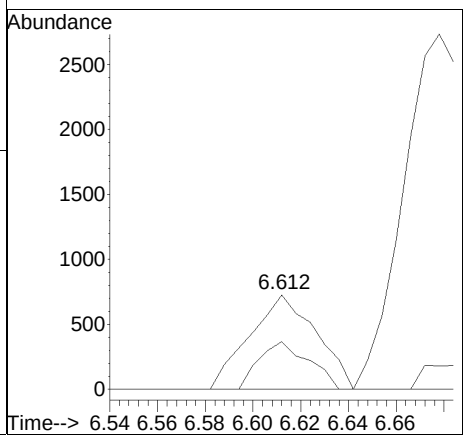


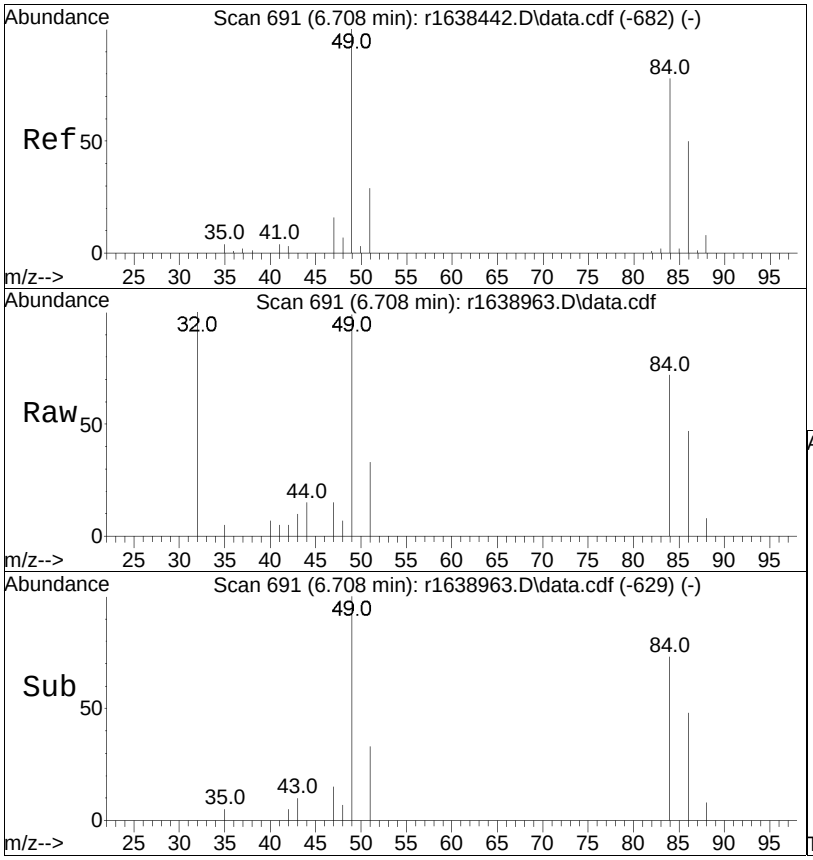


#27
tertiary butyl alcohol
Concen: 0.09 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 59 Resp: 1413

Ion	Ratio	Lower	Upper
59	100		
41	50.7	29.3	43.9#
43	0.0	10.1	15.1#

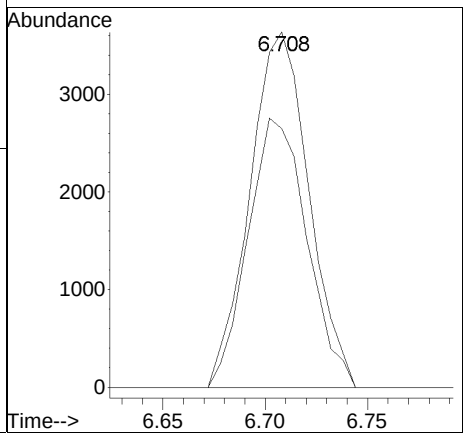


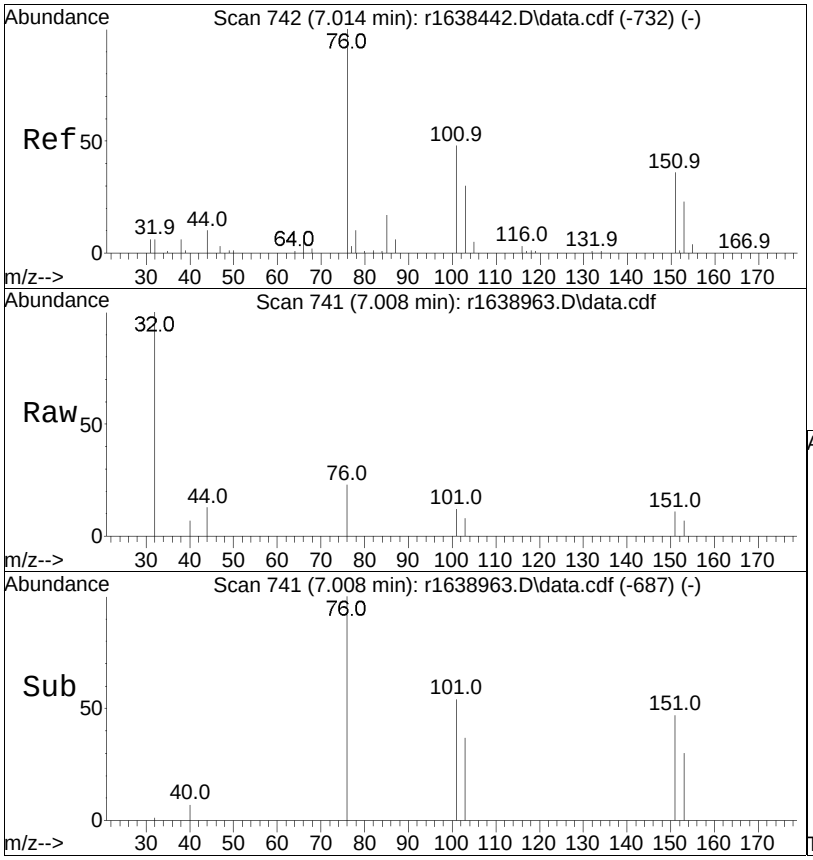


#28
methylene chloride
Concen: 0.60 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 49 Resp: 7311

Ion	Ratio	Lower	Upper
49	100		
84	72.8	62.4	93.6

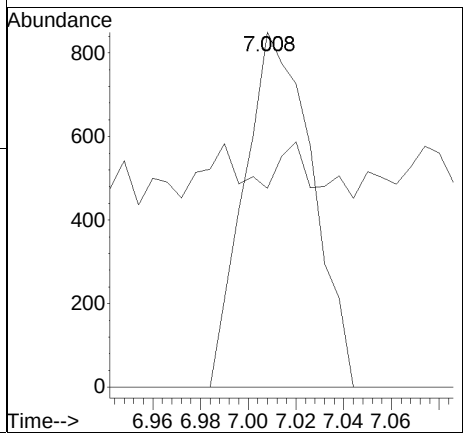


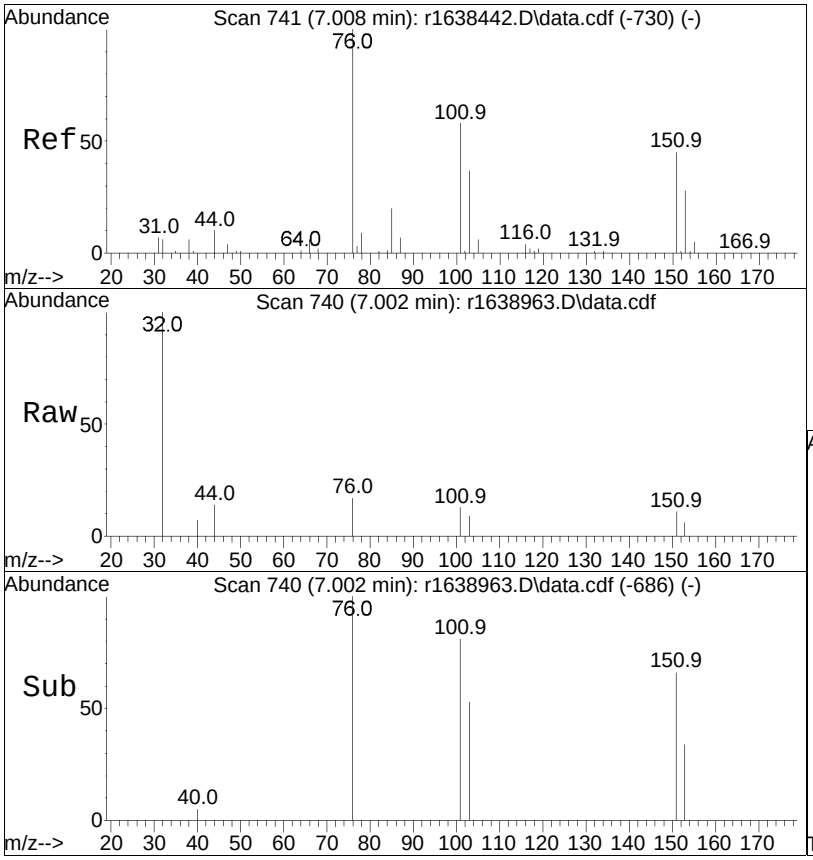


#30
carbon disulfide
Concen: 0.06 ppbV
RT: 7.008 min Scan# 741
Delta R.T. -0.006 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 76 Resp: 1682

Ion	Ratio	Lower	Upper
76	100		
44	56.0	8.6	12.8#

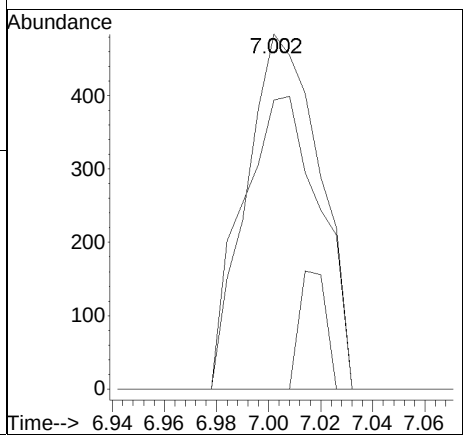


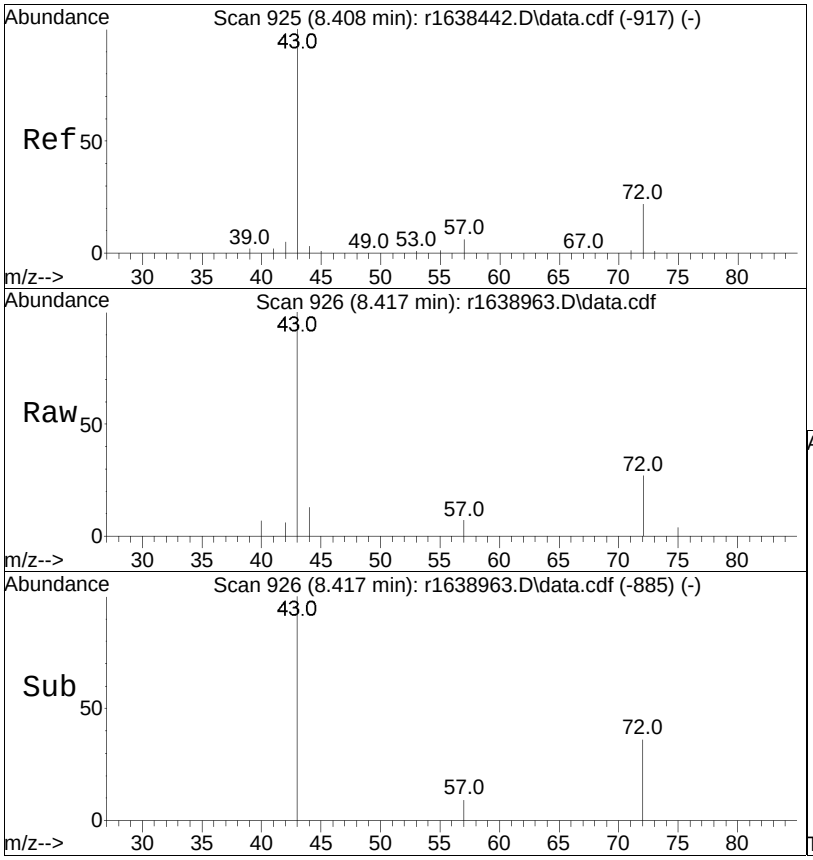


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:101 Resp: 941

Ion	Ratio	Lower	Upper
101	100		
85	0.0	27.8	41.6#
151	81.4	62.2	93.4

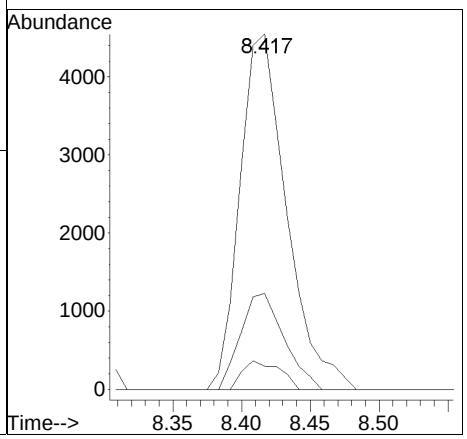


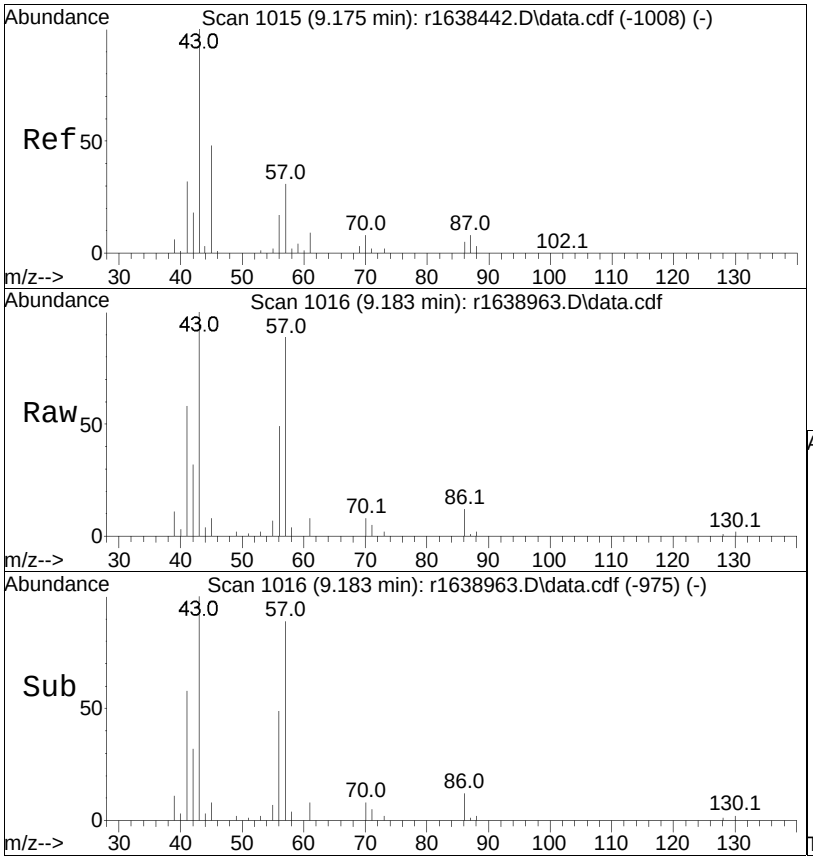


#36
2-butanone
Concen: 0.40 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 43 Resp: 10723

Ion	Ratio	Lower	Upper
43	100		
72	27.1	17.4	26.0#
57	6.5	4.8	7.2

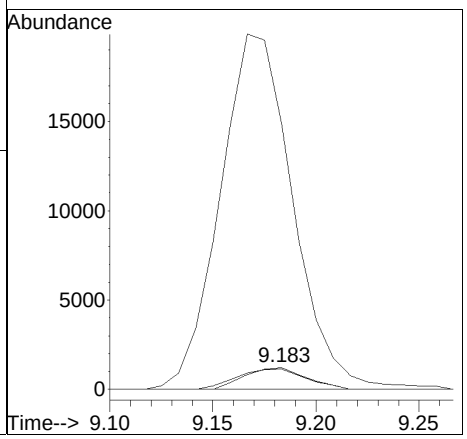


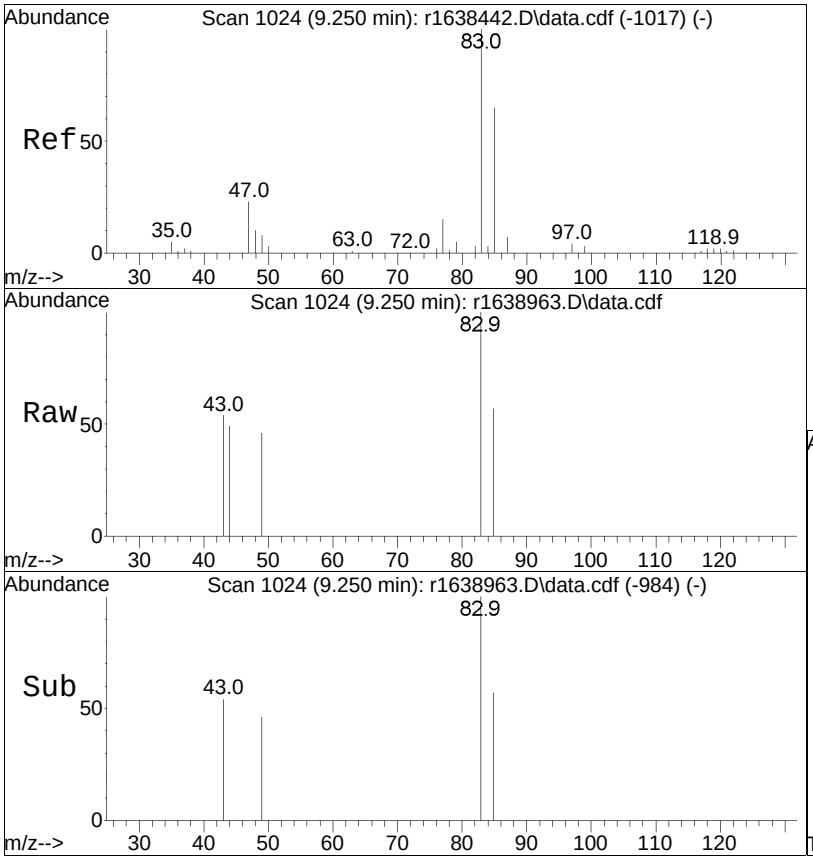


#38
Ethyl Acetate
Concen: 0.65 ppbV
RT: 9.183 min Scan# 1016
Delta R.T. 0.008 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 61 Resp: 2540

Ion	Ratio	Lower	Upper
61	100		
70	93.3	74.6	112.0
43	1218.0	942.0	1413.0

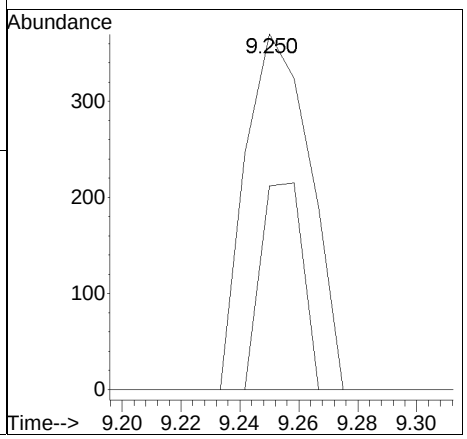


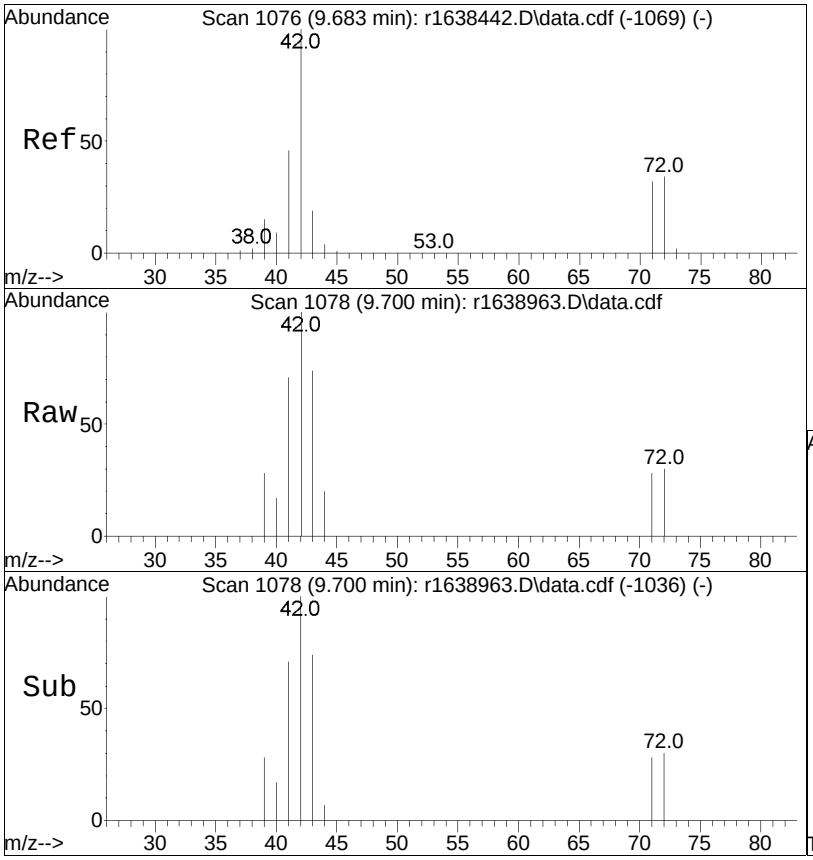


#39
chloroform
Concen: 0.03 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 83 Resp: 565

Ion	Ratio	Lower	Upper
83	100		
85	57.3	51.9	77.9
47	0.0	18.0	27.0#

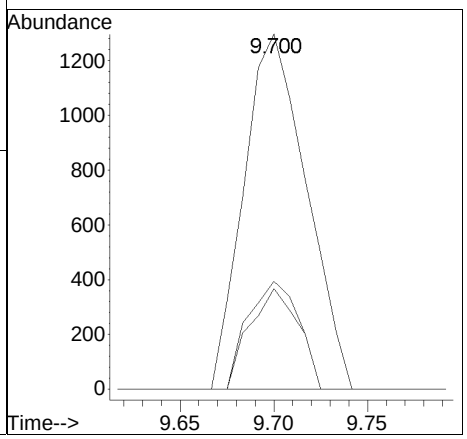


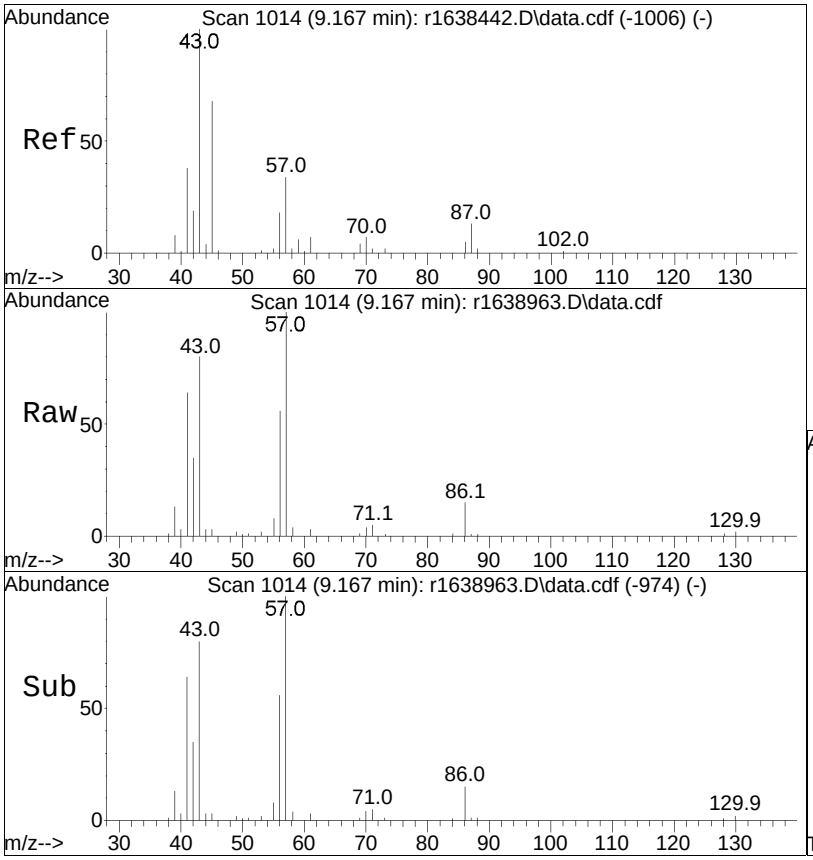


#40
Tetrahydrofuran
Concen: 0.18 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 42 Resp: 3009

Ion	Ratio	Lower	Upper
42	100		
71	28.3	25.6	38.4
72	30.4	27.4	41.2

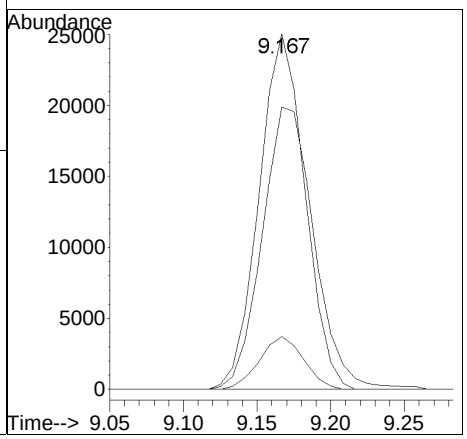


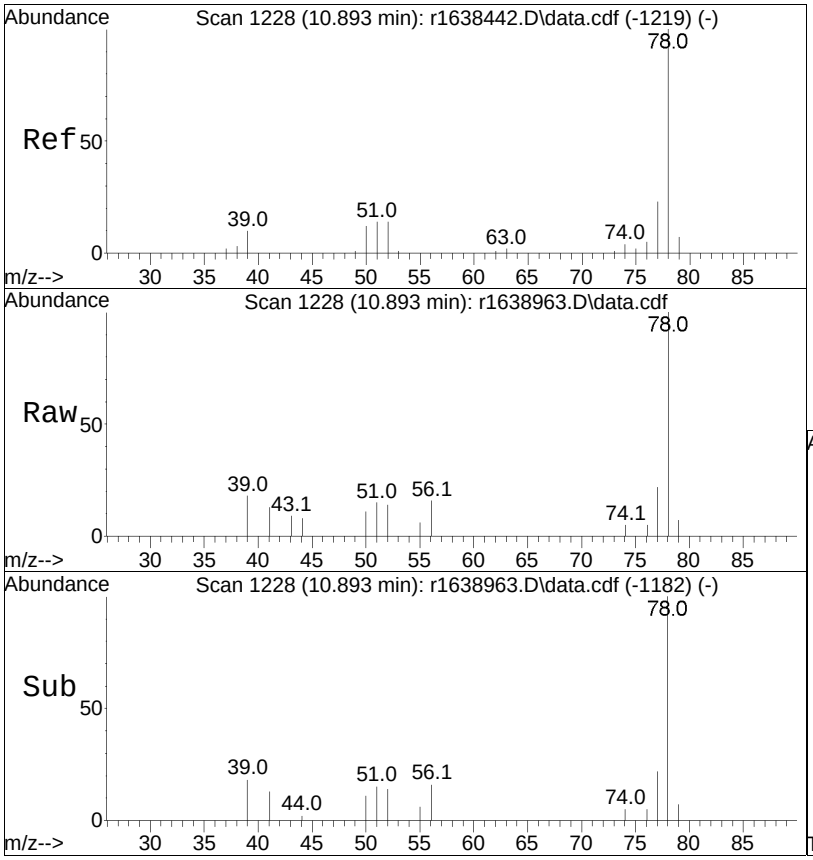


#44
hexane
Concen: 3.20 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 57 Resp: 54115

Ion	Ratio	Lower	Upper
57	100		
43	79.5	233.1	349.7#
86	14.9	12.6	18.8

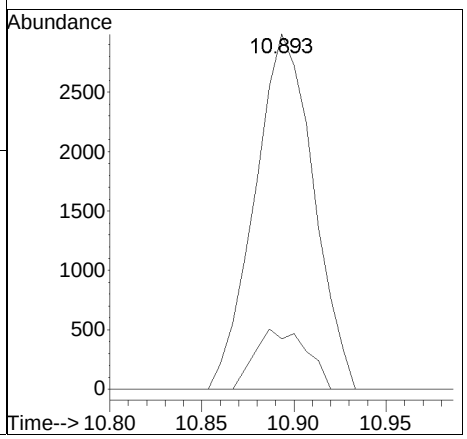


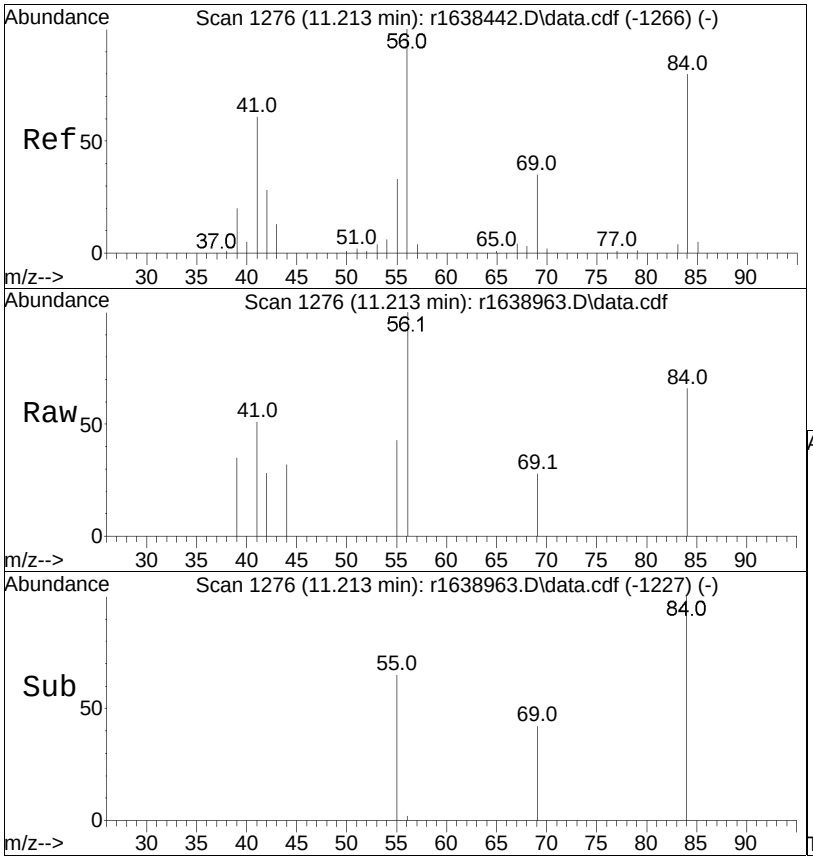


#50
benzene
Concen: 0.19 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 78 Resp: 6635

Ion	Ratio	Lower	Upper
78	100		
52	14.2	11.6	17.4

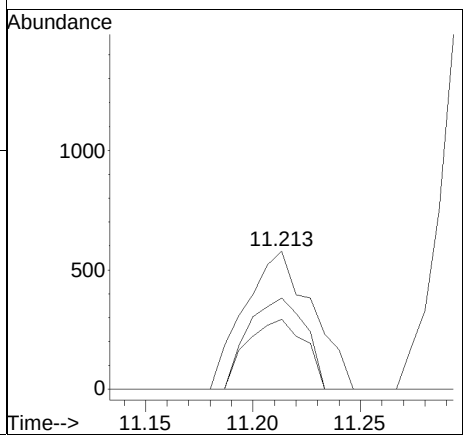


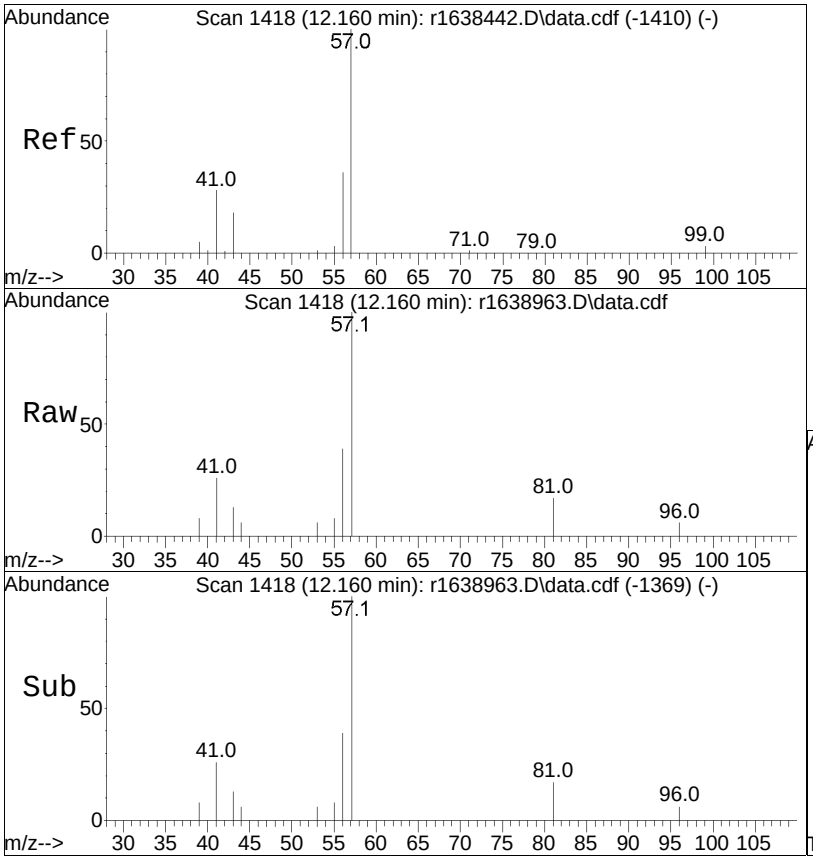


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.213 min Scan# 1276
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 56 Resp: 1265

Ion	Ratio	Lower	Upper
56	100		
84	66.1	64.2	96.4
41	50.7	48.8	73.2

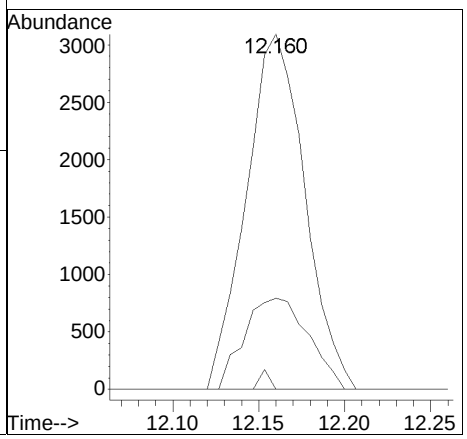


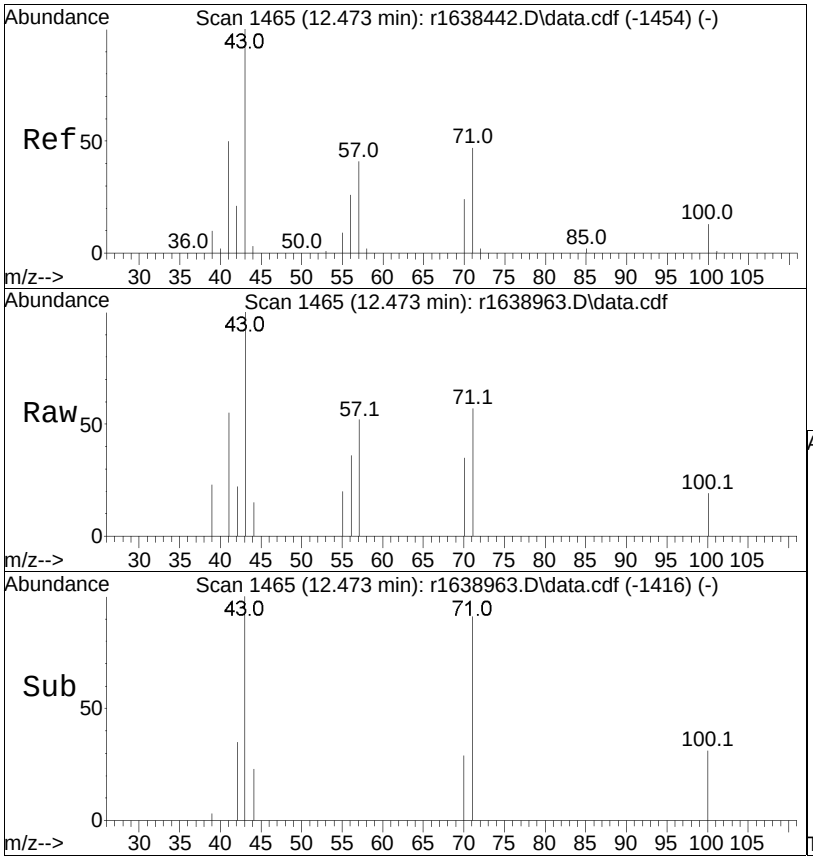


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 57 Resp: 7331

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.4	6.6#
41	25.7	21.9	32.9

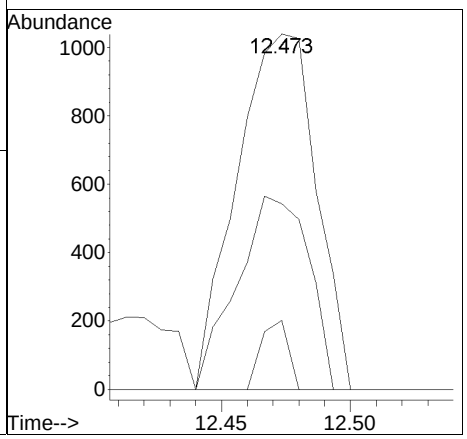


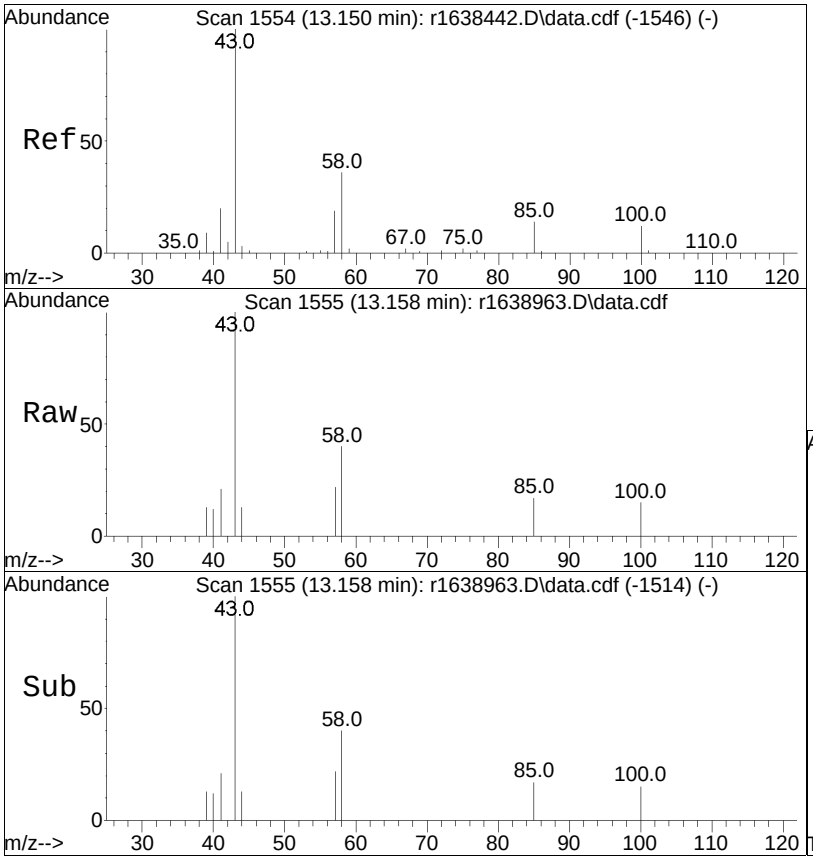


#62
heptane
Concen: 0.09 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 43 Resp: 2233

Ion	Ratio	Lower	Upper
43	100		
57	52.3	32.8	49.2#
100	19.4	10.9	16.3#

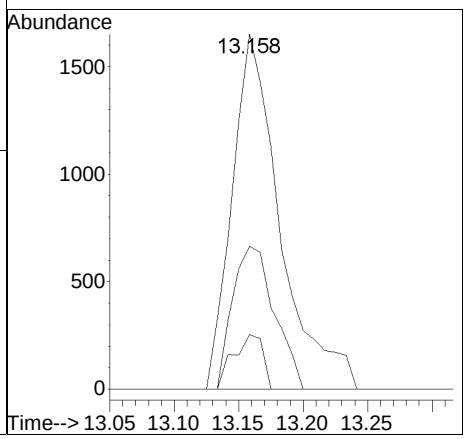


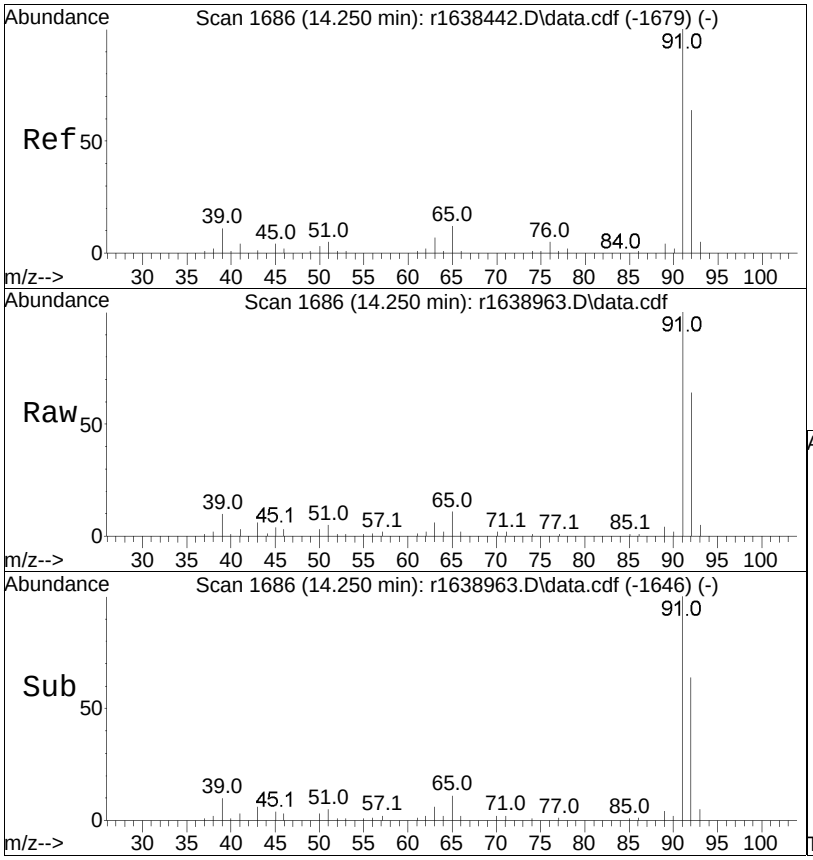


#64
4-methyl-2-pentanone
Concen: 0.14 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 43 Resp: 4284

Ion	Ratio	Lower	Upper
43	100		
58	40.3	28.6	43.0
100	15.4	9.9	14.9#

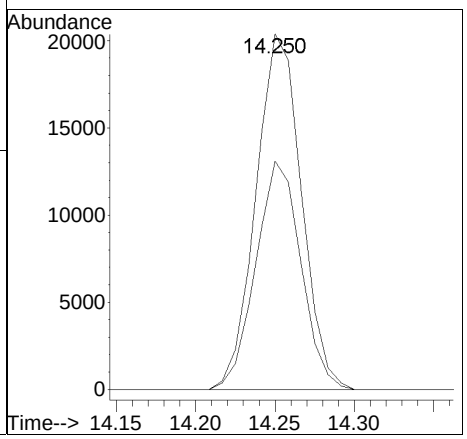


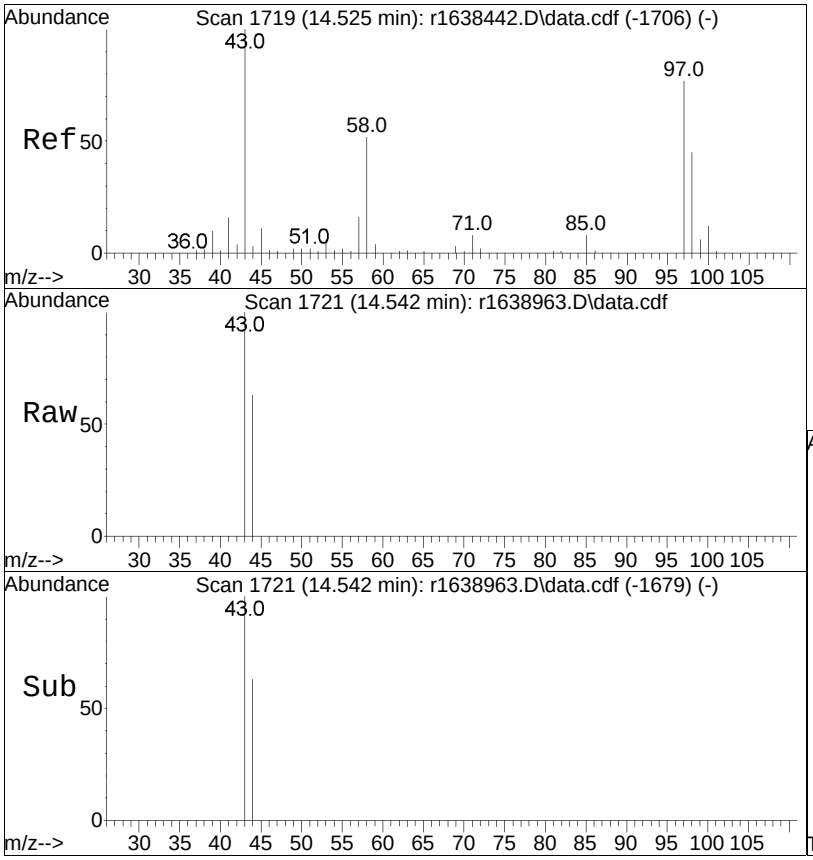


#68
toluene
Concen: 0.89 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 91 Resp: 40597

Ion	Ratio	Lower	Upper
91	100		
92	64.3	51.0	76.4

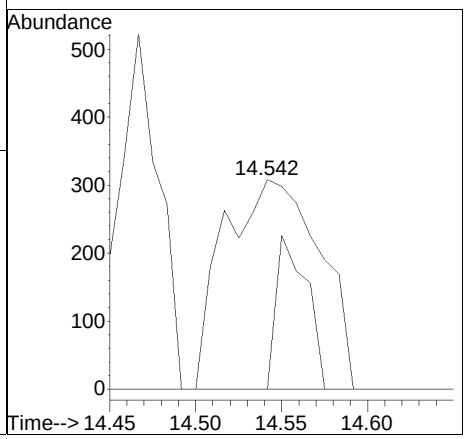


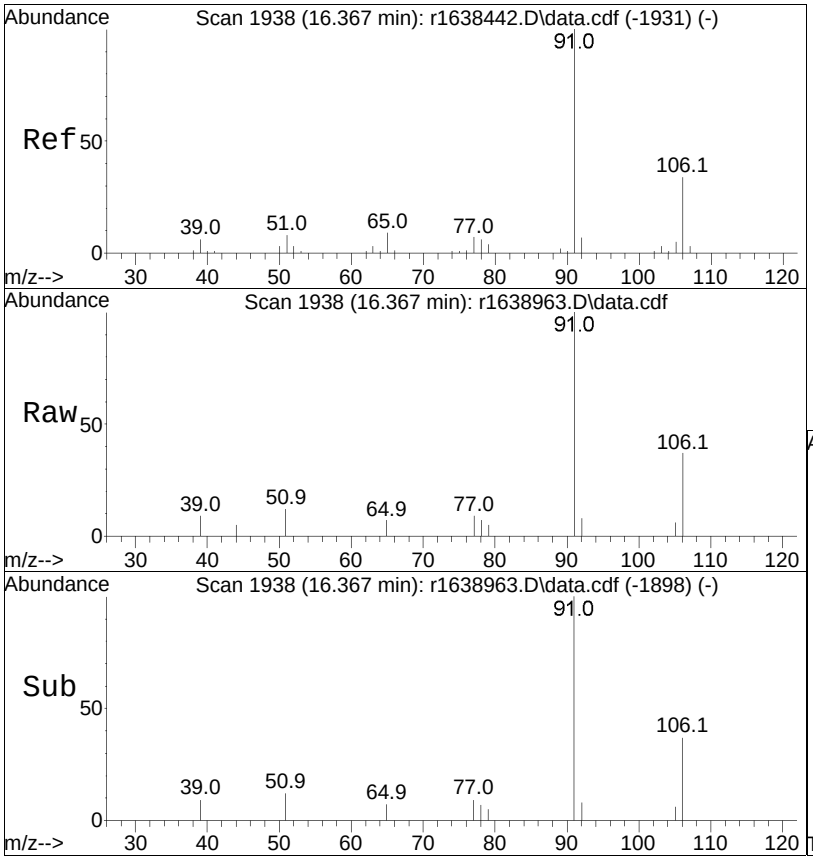


#72
2-hexanone
Concen: 0.04 ppbV
RT: 14.542 min Scan# 1721
Delta R.T. 0.017 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 43 Resp: 1194

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#
100	0.0	9.3	13.9#

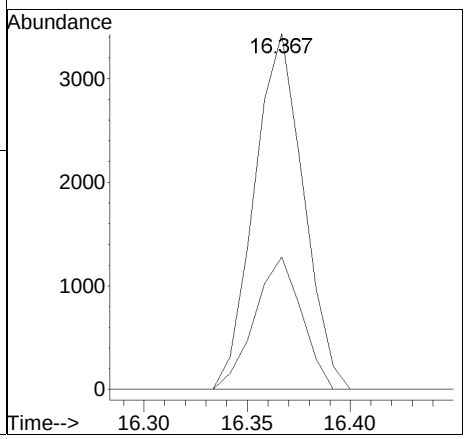


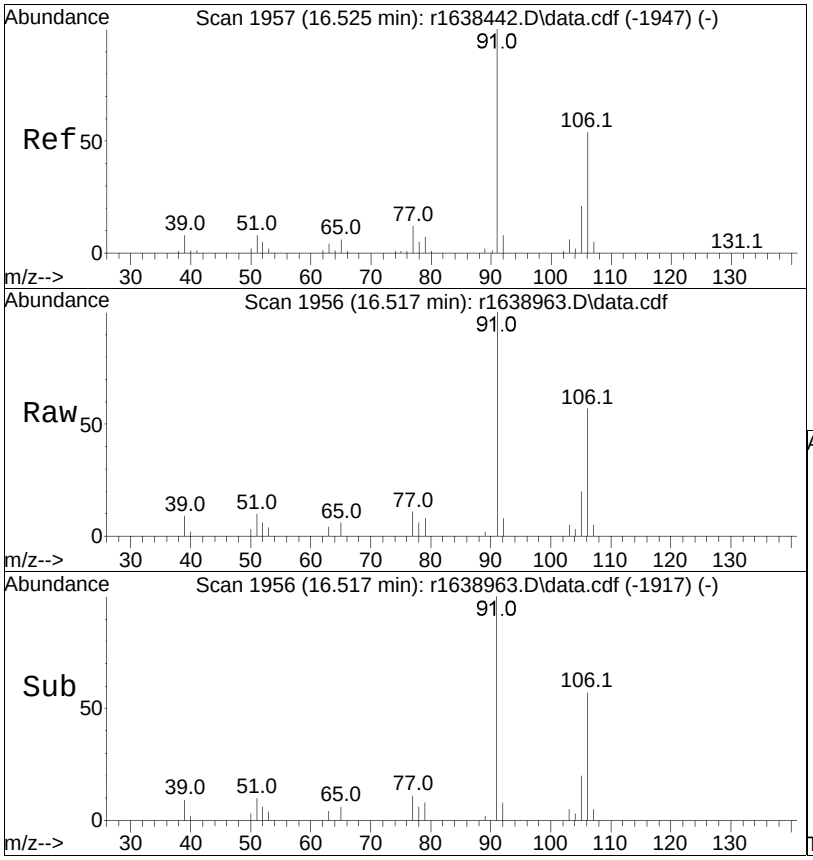


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 91 Resp: 5682

Ion	Ratio	Lower	Upper
91	100		
106	37.3	27.4	41.2

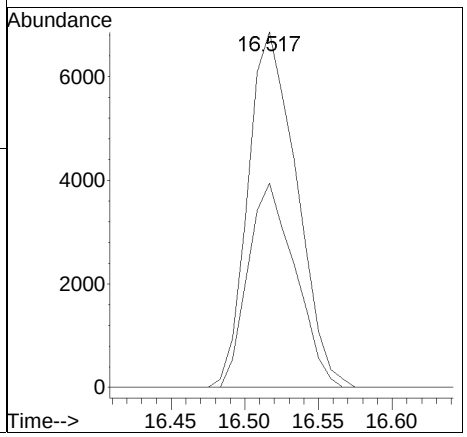


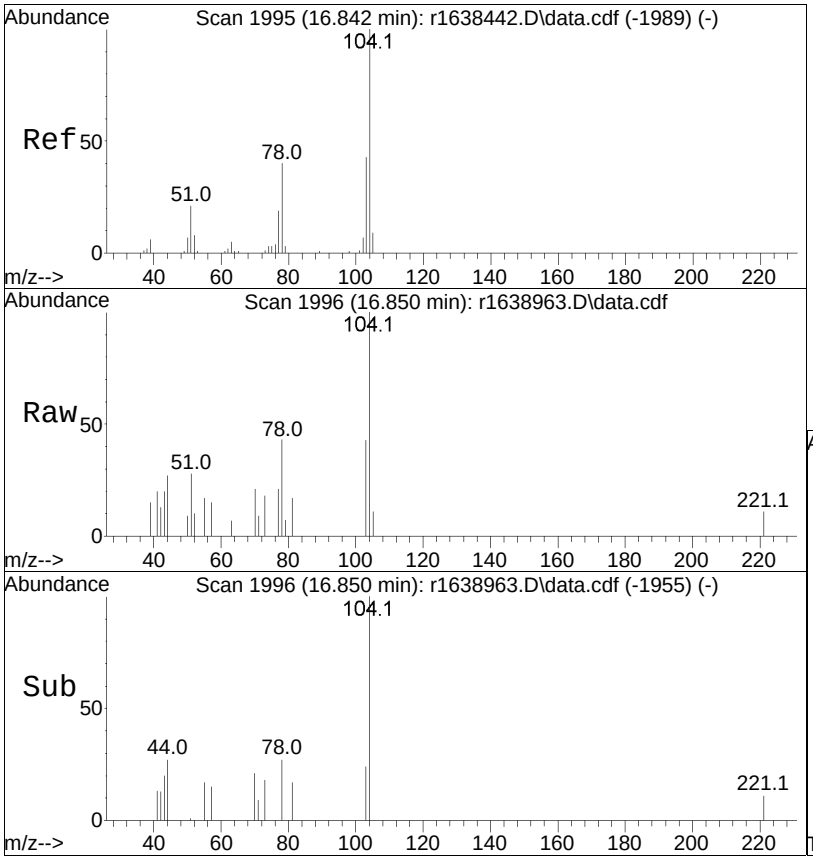


#83
m+p-xylene
Concen: 0.35 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 91 Resp: 15780

Ion	Ratio	Lower	Upper
91	100		
106	57.5	43.0	64.4

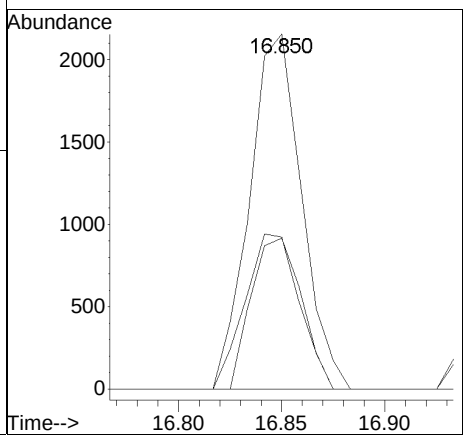


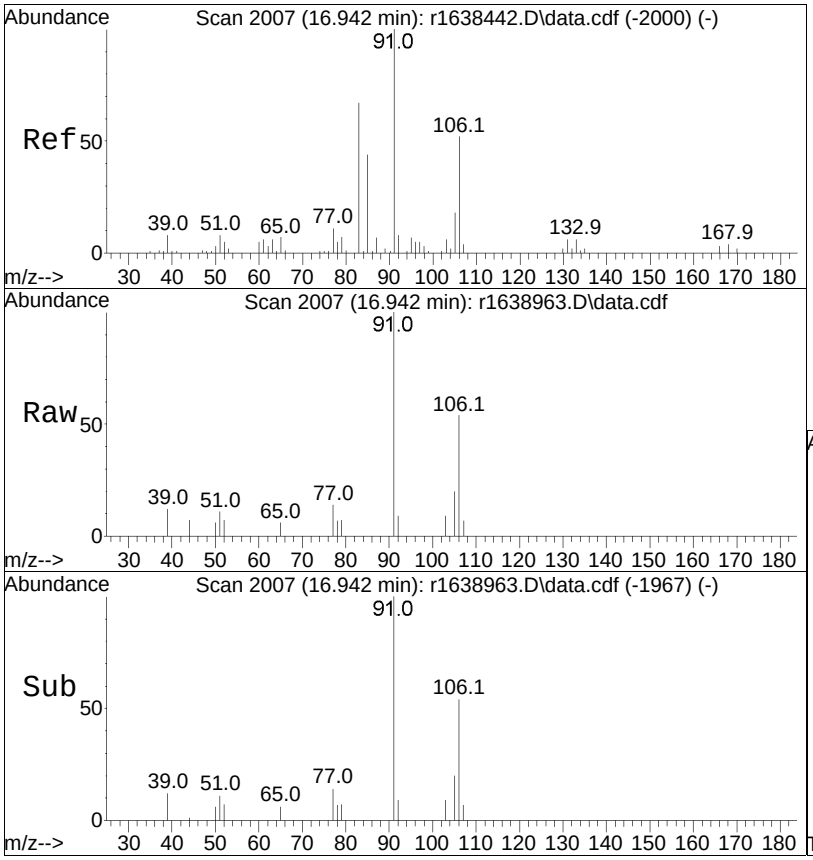


#85
styrene
Concen: 0.10 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:104 Resp: 3793

Ion	Ratio	Lower	Upper
104	100		
103	42.9	34.0	51.0
78	42.5	31.7	47.5

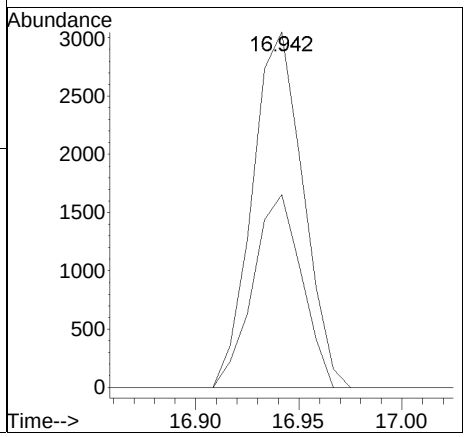


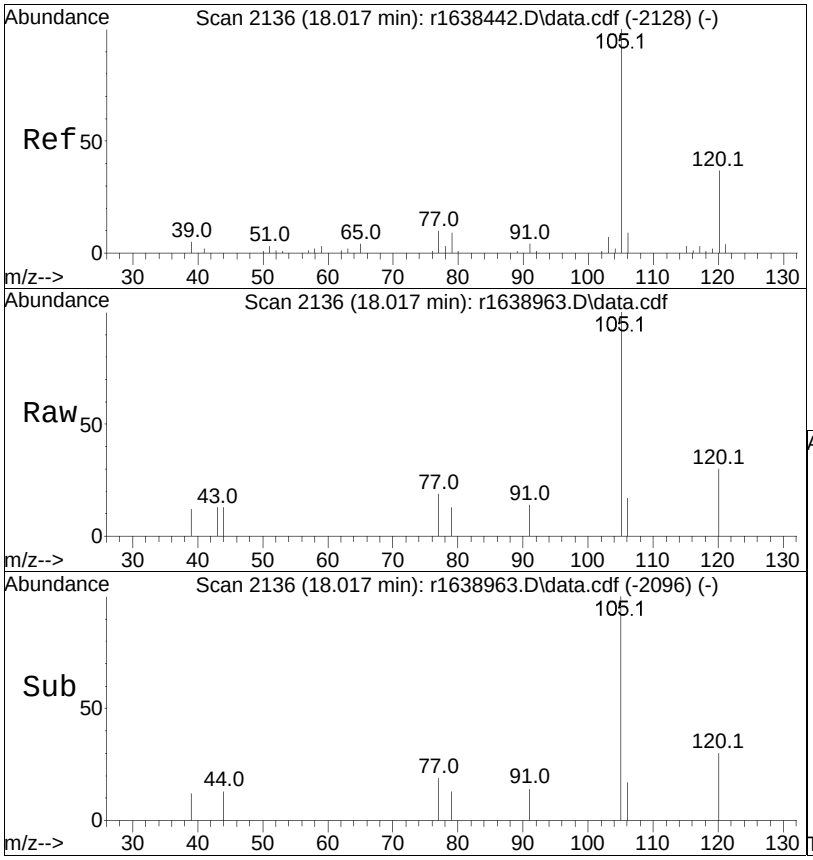


#87
o-xylene
Concen: 0.12 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 91 Resp: 5222

Ion	Ratio	Lower	Upper
91	100		
106	54.2	41.7	62.5

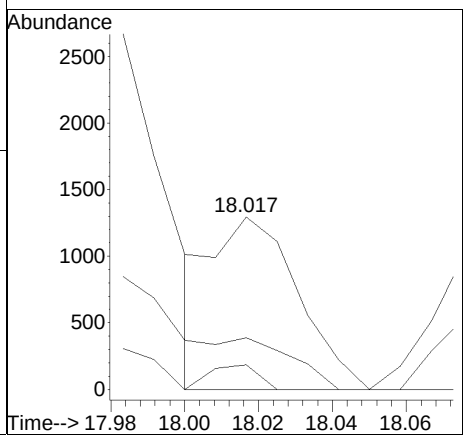


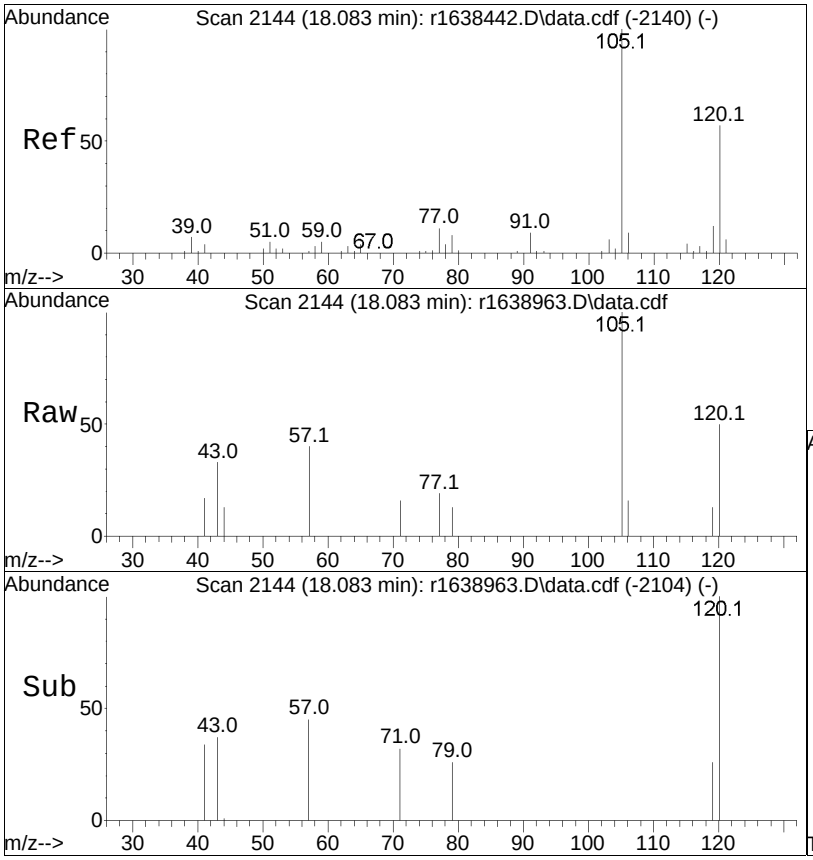


#96
4-ethyl toluene
Concen: 0.03 ppbV m
RT: 18.017 min Scan# 2136
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:105 Resp: 2087

Ion	Ratio	Lower	Upper
105	100		
120	30.0	29.7	44.5
91	14.3	7.9	11.9#

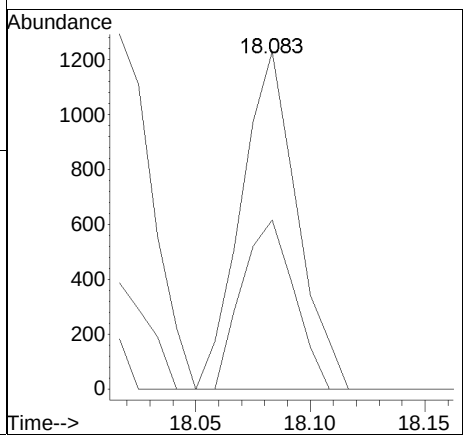


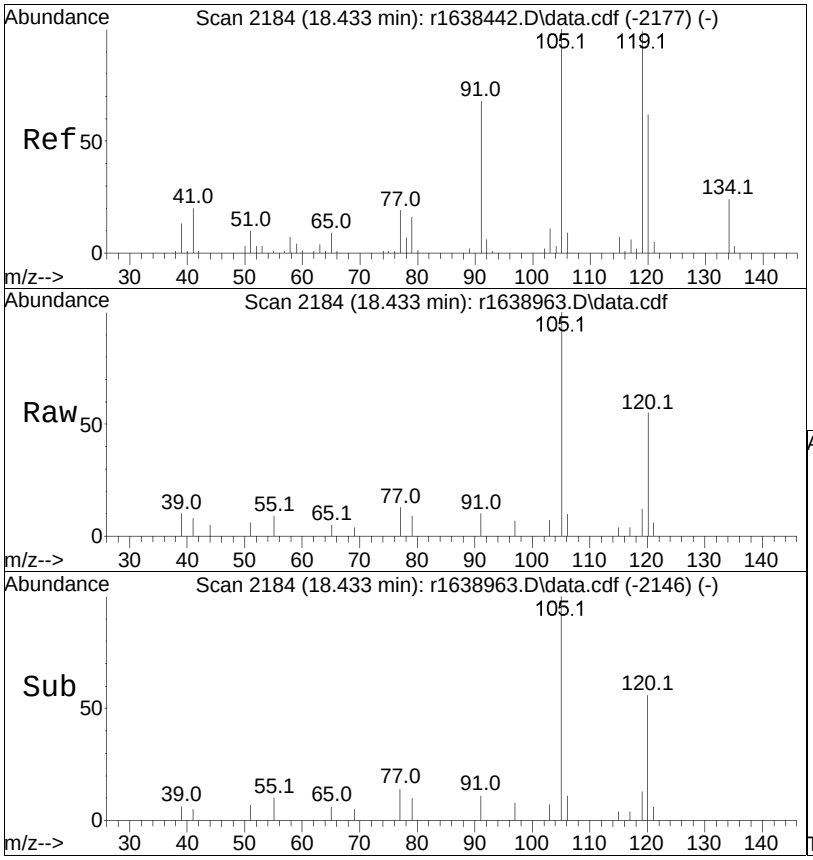


#97
1,3,5-trimethylbenzene
Concen: 0.04 ppbV
RT: 18.083 min Scan# 2144
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:105 Resp: 2100

Ion	Ratio	Lower	Upper
105	100		
120	50.2	45.4	68.2
91	0.0	7.5	11.3#

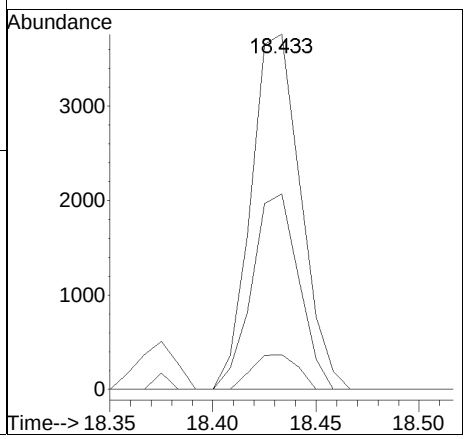




#99
1,2,4-trimethylbenzene
Concen: 0.12 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638963.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:105 Resp: 6304

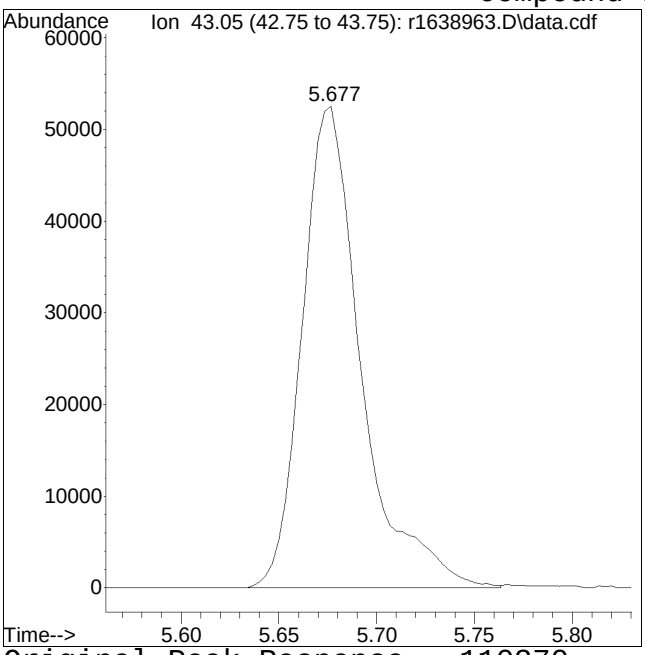
Ion	Ratio	Lower	Upper
105	100		
120	55.0	49.9	74.9
91	9.8	54.0	81.0#



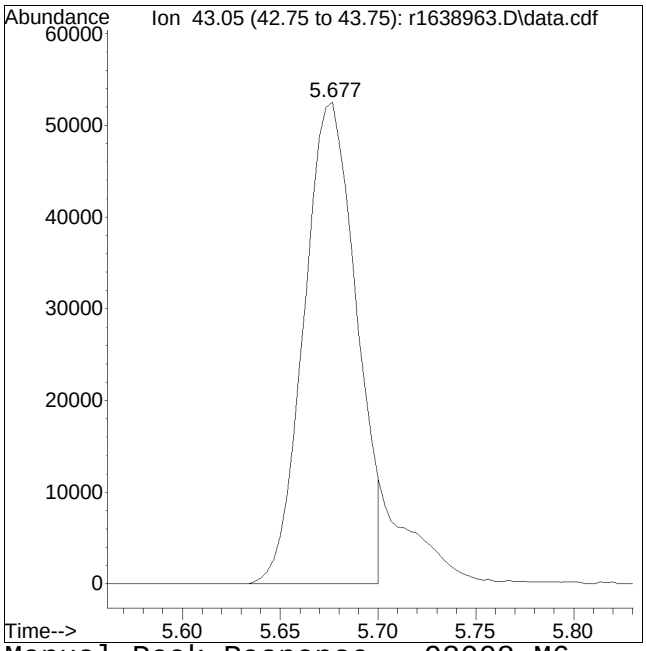
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638963.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:7: 9 Instrument :
Sample : L2347540-04,3,250,250 Quant Date : 8/23/2023 6:31 am

Compound #19: acetone



Original Peak Response = 110370



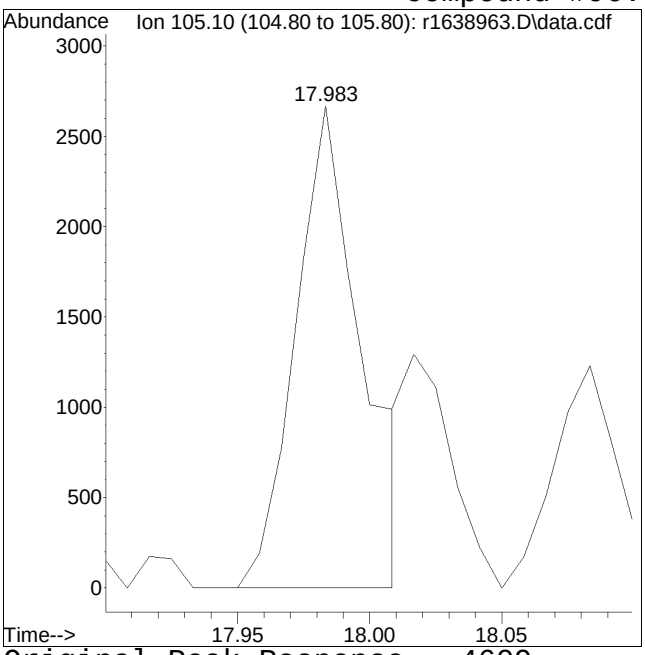
Manual Peak Response = 98008 M6

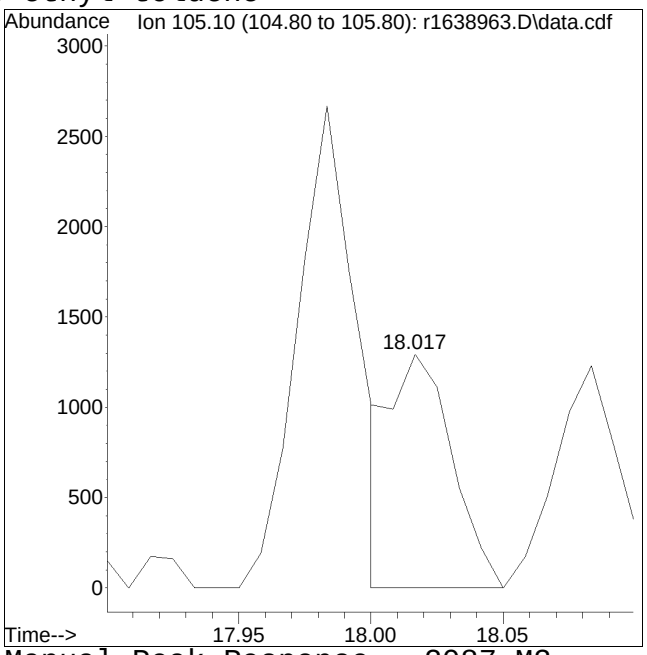
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638963.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:7: 9 Instrument :
Sample : L2347540-04,3,250,250 Quant Date : 8/23/2023 6:31 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4609 Manual Peak Response = 2087 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638964.D
Acq On : 22 Aug 2023 8:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-05,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:35 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	207904	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		97.04%	
43) 1,4-difluorobenzene	11.307	114	617329	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		92.47%	
67) chlorobenzene-D5	15.992	54	78903	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		95.57%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	6840	0.444	ppbV	100
6) chloromethane	4.192	50	3913	0.450	ppbV	97
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	576556	105.149	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.673	43	79900M6	7.222	ppbV	
21) trichlorofluoromethane	5.870	101	2084	0.192	ppbV	93
22) isopropyl alcohol	5.950	45	47273	2.955	ppbV #	97
27) tertiary butyl alcohol	6.612	59	1666	0.107	ppbV #	75
28) methylene chloride	6.702	49	3981	0.335	ppbV	94
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	6.996	101	653	0.034	ppbV #	78
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.	d	
36) 2-butanone	8.408	43	8295	0.316	ppbV	93
38) Ethyl Acetate	9.175	61	2056	0.543	ppbV	57
39) chloroform	9.250		0	N.D.		
40) Tetrahydrofuran	9.692	42	9360	0.563	ppbV #	90
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	31191	1.921	ppbV #	1
50) benzene	10.893	78	5345	0.160	ppbV	97
53) cyclohexane	11.207	56	850	0.049	ppbV	87
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638964.D
Acq On : 22 Aug 2023 8:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-05,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:35 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

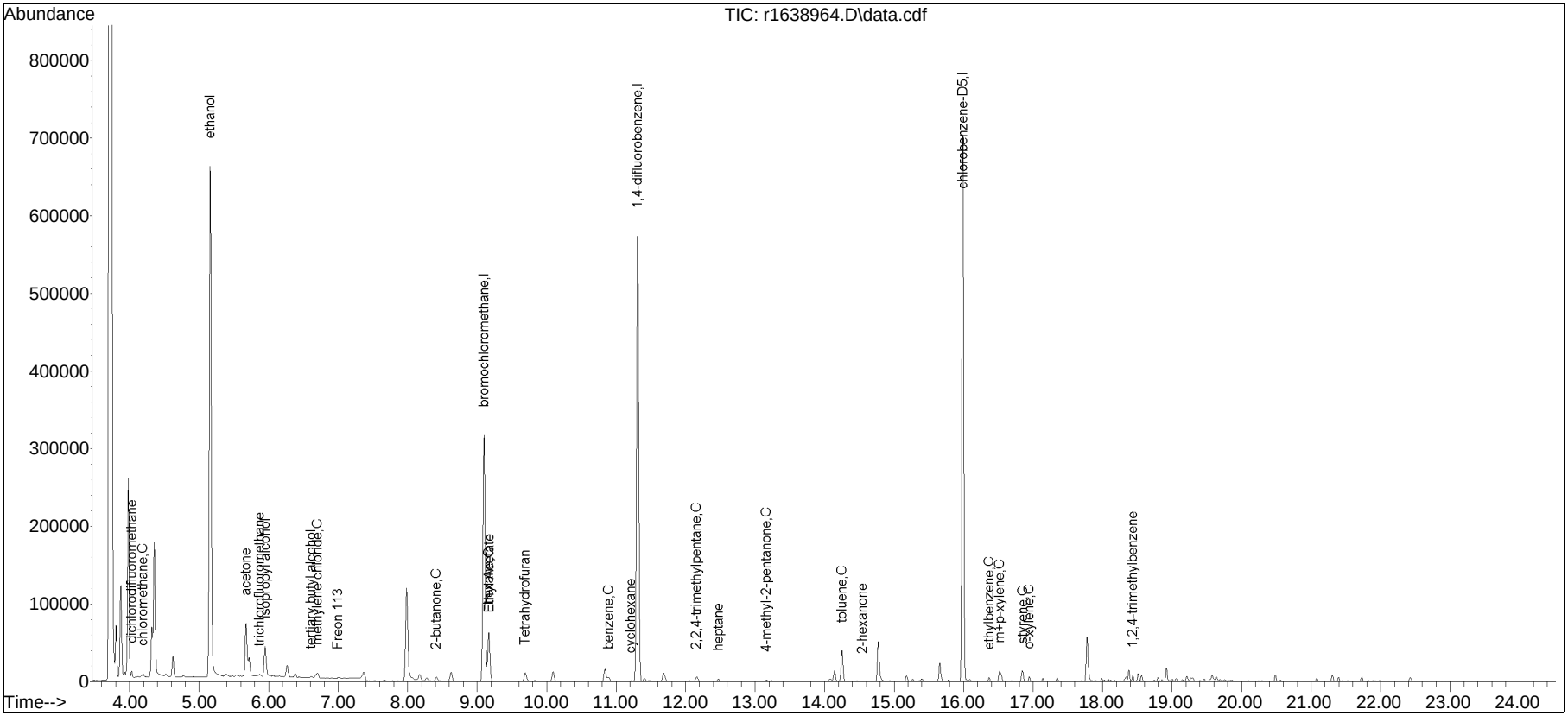
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.153	57	5558	0.105	ppbV #	97
62) heptane	12.473	43	1954	0.078	ppbV #	74
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	2397	0.083	ppbV #	84
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	31795	0.716	ppbV	99
72) 2-hexanone	14.542	43	958	0.033	ppbV #	34
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.367	91	4414	0.079	ppbV	96
83) m+p-xylene	16.517	91	11937	0.272	ppbV	98
84) bromoform	0.000		0	N.D.		
85) styrene	16.850	104	4818	0.132	ppbV	94
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.942	91	3978	0.091	ppbV	95
96) 4-ethyl toluene	18.025		0	N.D.		
97) 1,3,5-trimethylbenzene	18.083		0	N.D.		
99) 1,2,4-trimethylbenzene	18.433	105	4315	0.085	ppbV #	56
101) Benzyl Chloride	18.442		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

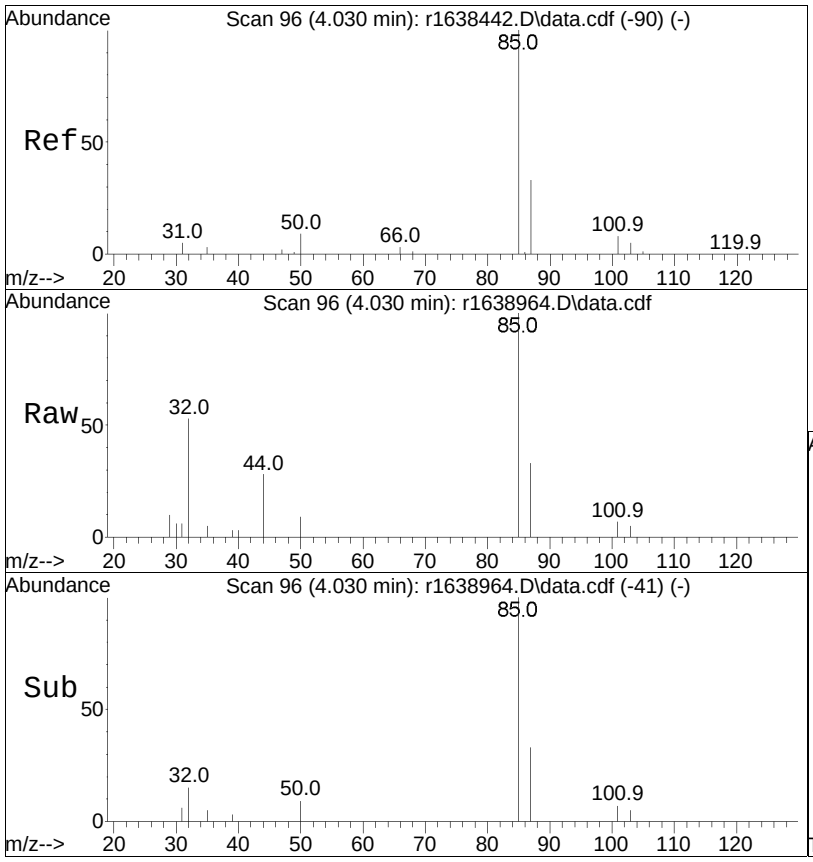
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638964.D
Acq On : 22 Aug 2023 8:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-05,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:31:35 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

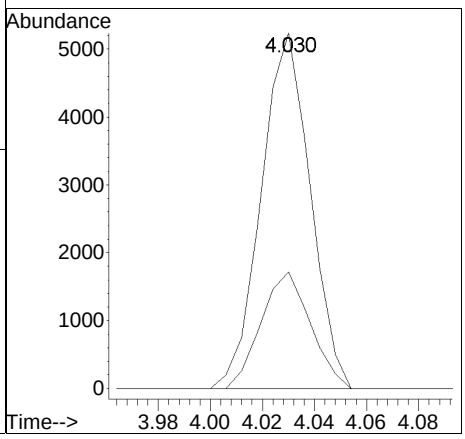


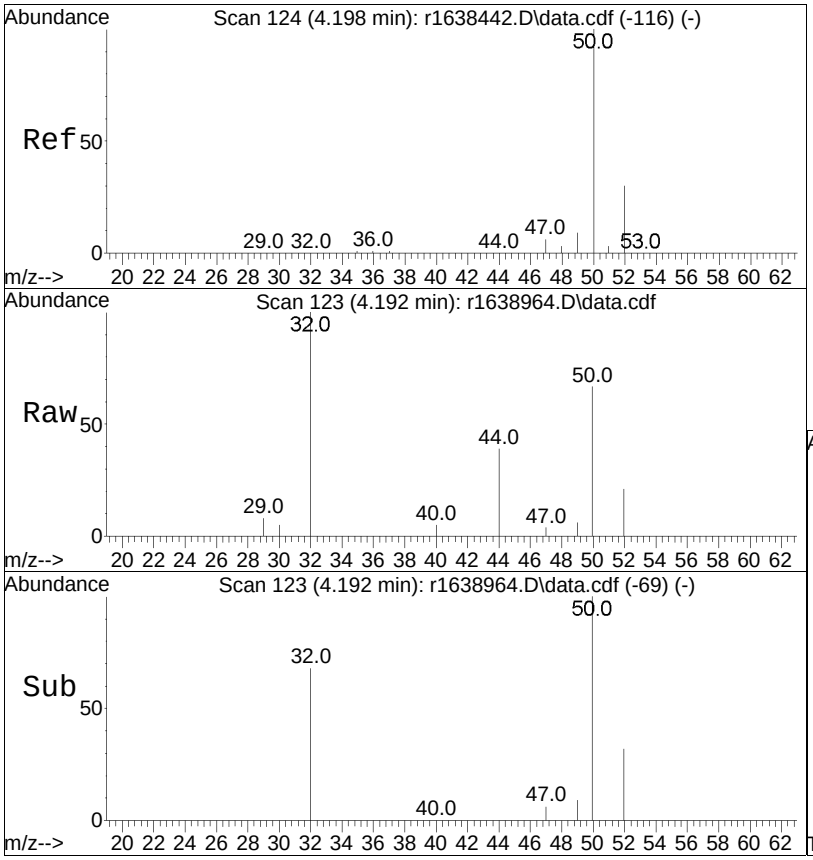


#5
dichlorodifluoromethane
Concen: 0.44 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 85 Resp: 6840

Ion	Ratio	Lower	Upper
85	100		
87	32.8	26.2	39.2

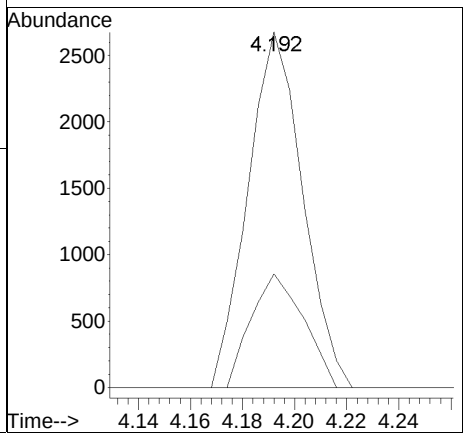


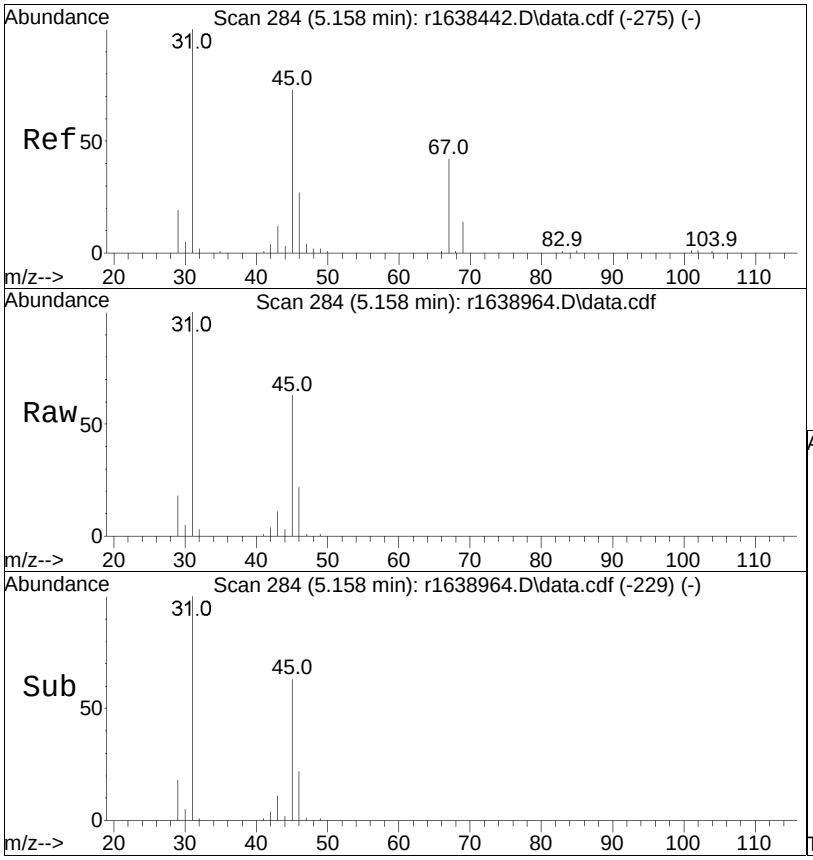


#6
chloromethane
Concen: 0.45 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 50 Resp: 3913

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.3	36.5

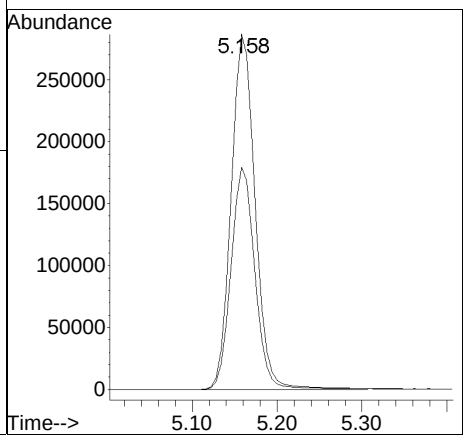


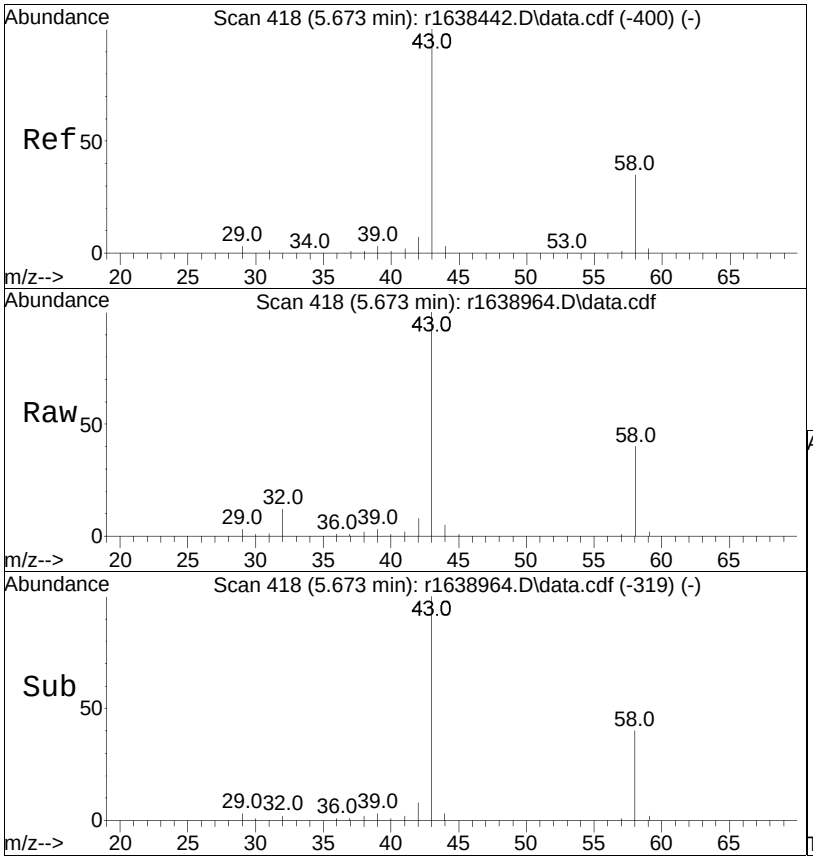


#15
ethanol
Concen: 105.15 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 31 Resp: 576556

Ion	Ratio	Lower	Upper
31	100		
45	62.6	58.6	87.8

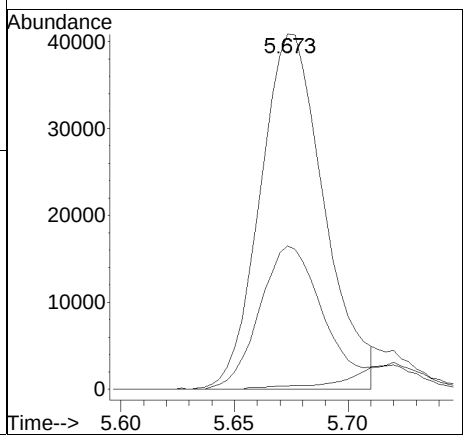


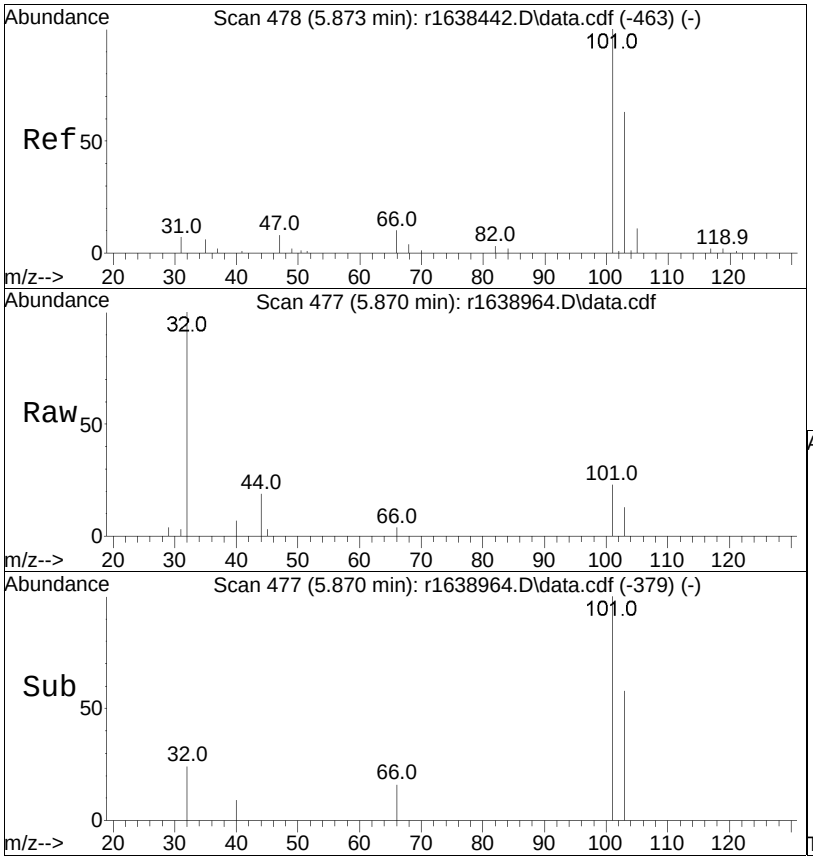


#19
acetone
Concen: 7.22 ppbV m
RT: 5.673 min Scan# 418
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 43 Resp: 79900

Ion	Ratio	Lower	Upper
43	100		
58	40.4	28.3	42.5
57	1.0	0.6	1.0#

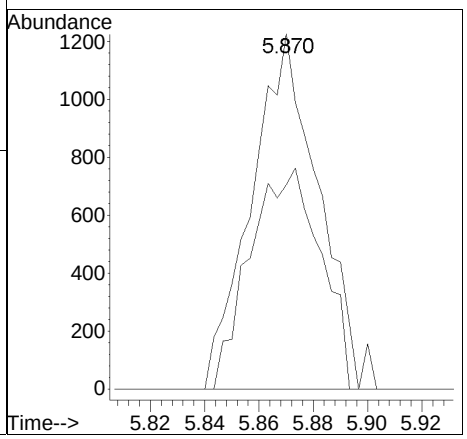


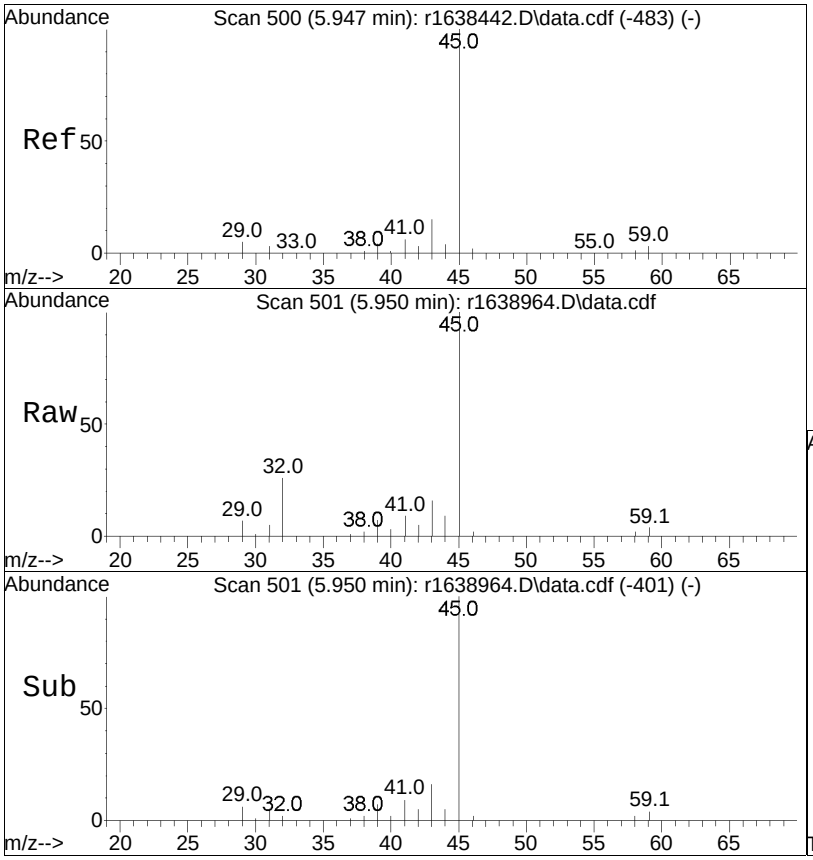


#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 5.870 min Scan# 477
Delta R.T. -0.003 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:101 Resp: 2084

Ion	Ratio	Lower	Upper
101	100		
103	57.6	50.6	76.0

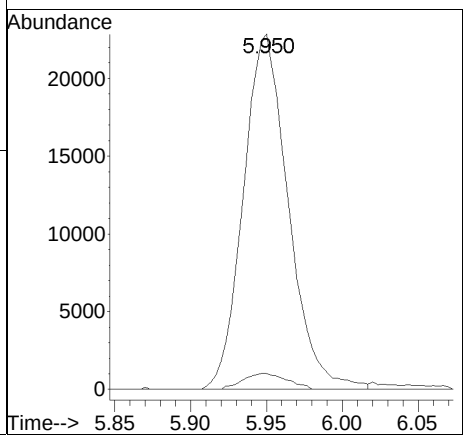


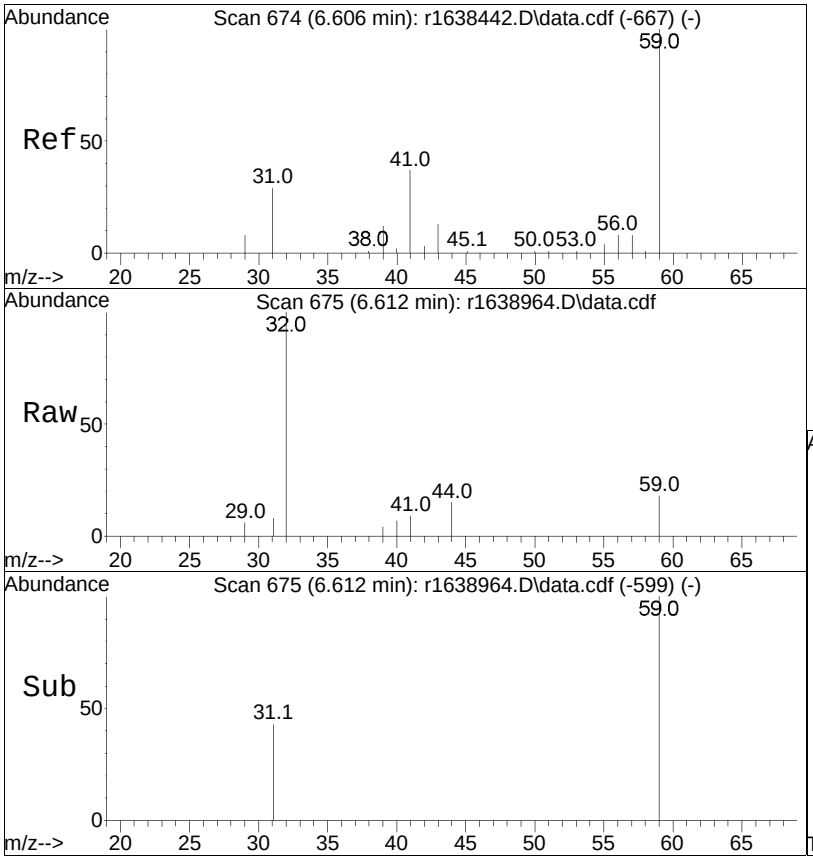


#22
isopropyl alcohol
Concen: 2.95 ppbV
RT: 5.950 min Scan# 501
Delta R.T. 0.003 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 45 Resp: 47273

Ion	Ratio	Lower	Upper
45	100		
59	4.5	2.8	4.2#

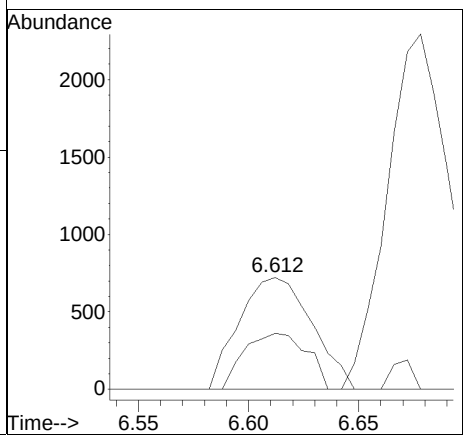


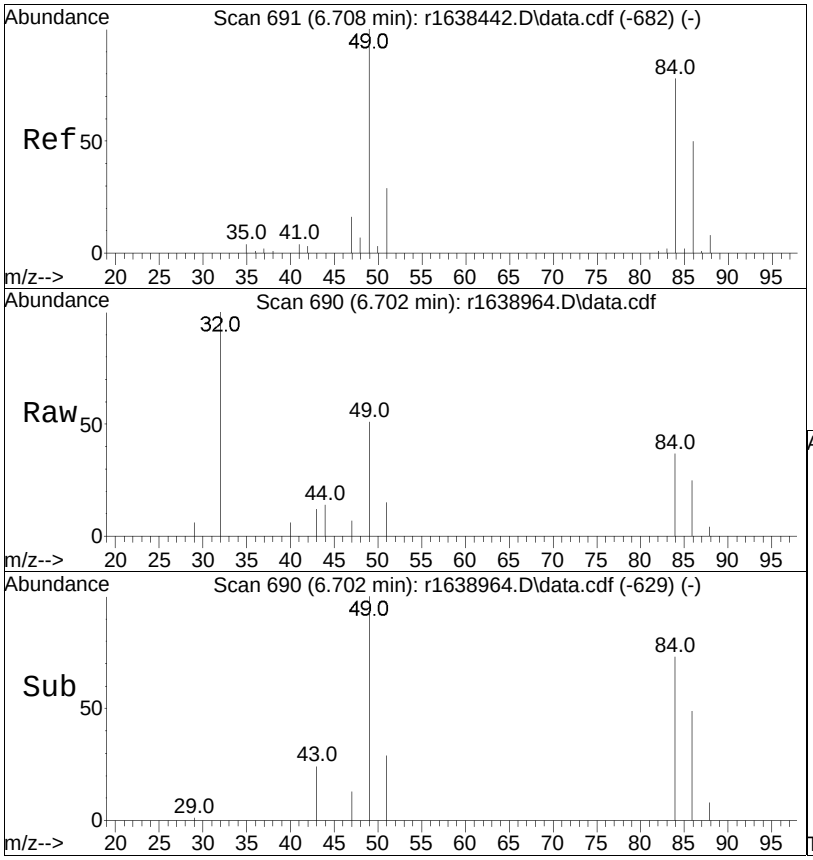


#27
tertiary butyl alcohol
Concen: 0.11 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 59 Resp: 1666

Ion	Ratio	Lower	Upper
59	100		
41	50.1	29.3	43.9#
43	0.0	10.1	15.1#

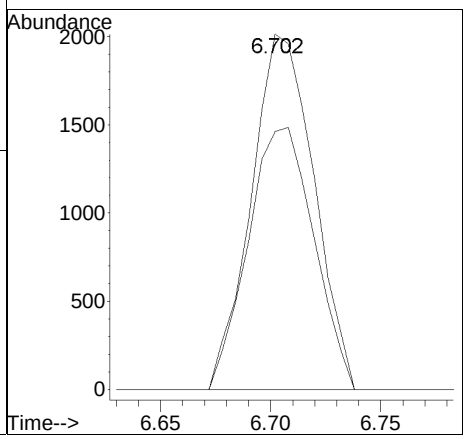


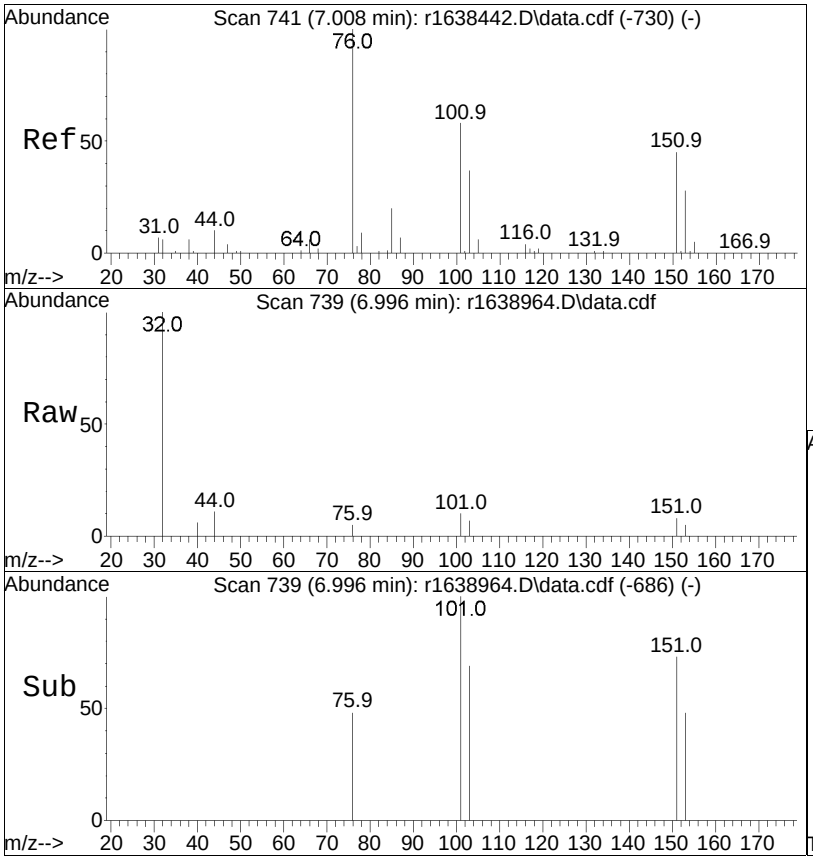


#28
methylene chloride
Concen: 0.34 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 49 Resp: 3981

Ion	Ratio	Lower	Upper
49	100		
84	72.6	62.4	93.6

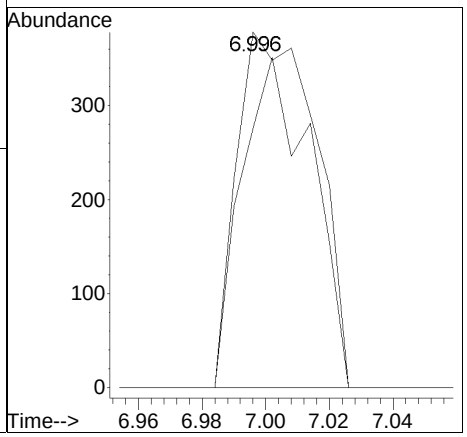


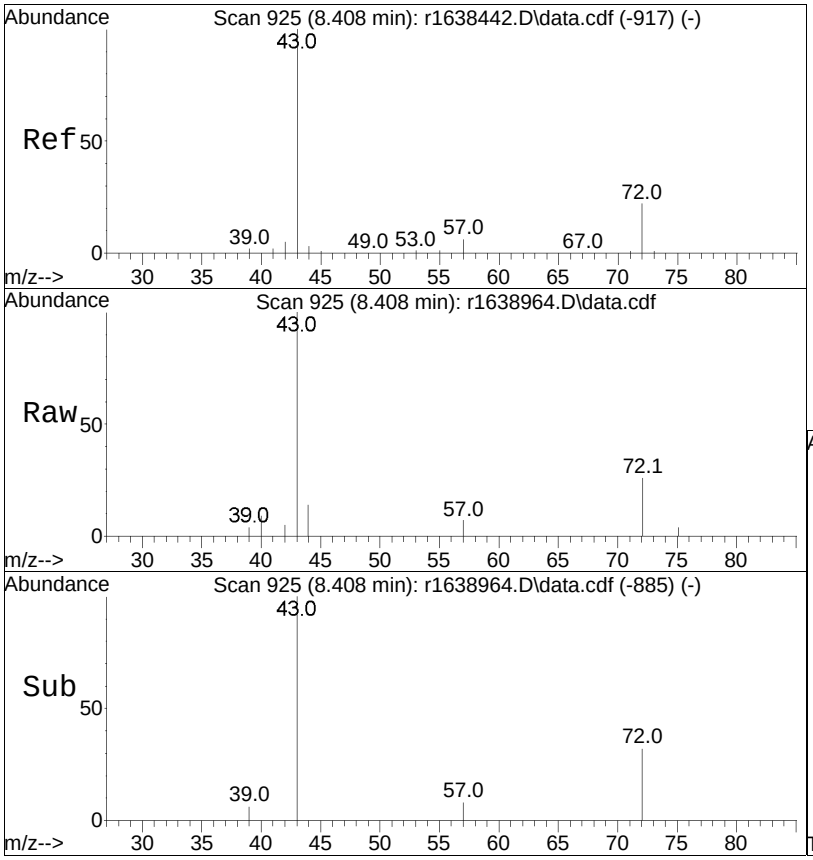


#31
Freon 113
Concen: 0.03 ppbV
RT: 6.996 min Scan# 739
Delta R.T. -0.012 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:101 Resp: 653

Ion	Ratio	Lower	Upper
101	100		
85	0.0	27.8	41.6#
151	73.0	62.2	93.4

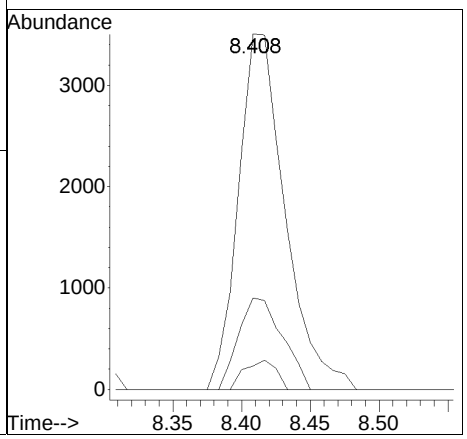


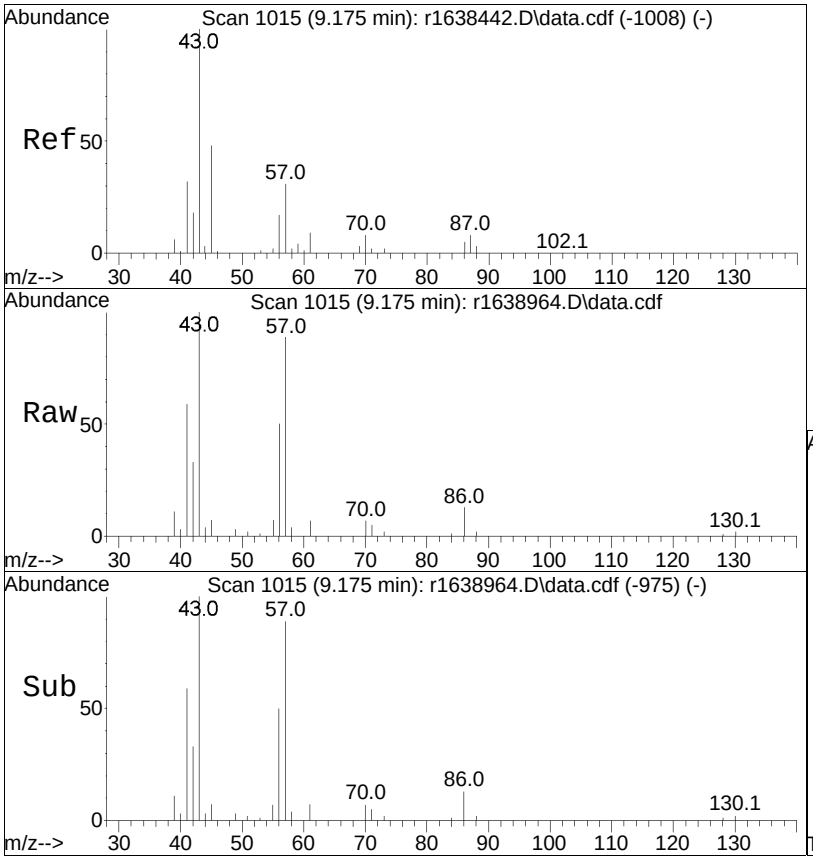


#36
2-butanone
Concen: 0.32 ppbV
RT: 8.408 min Scan# 925
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 43 Resp: 8295

Ion	Ratio	Lower	Upper
43	100		
72	25.8	17.4	26.0
57	6.6	4.8	7.2

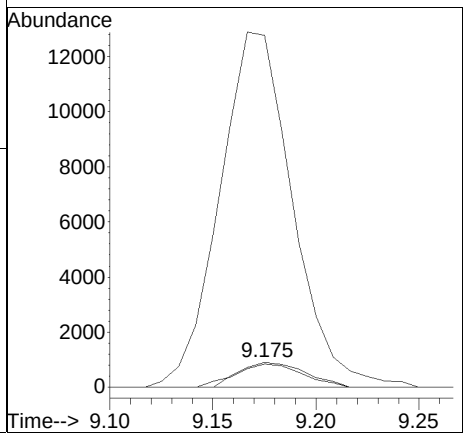


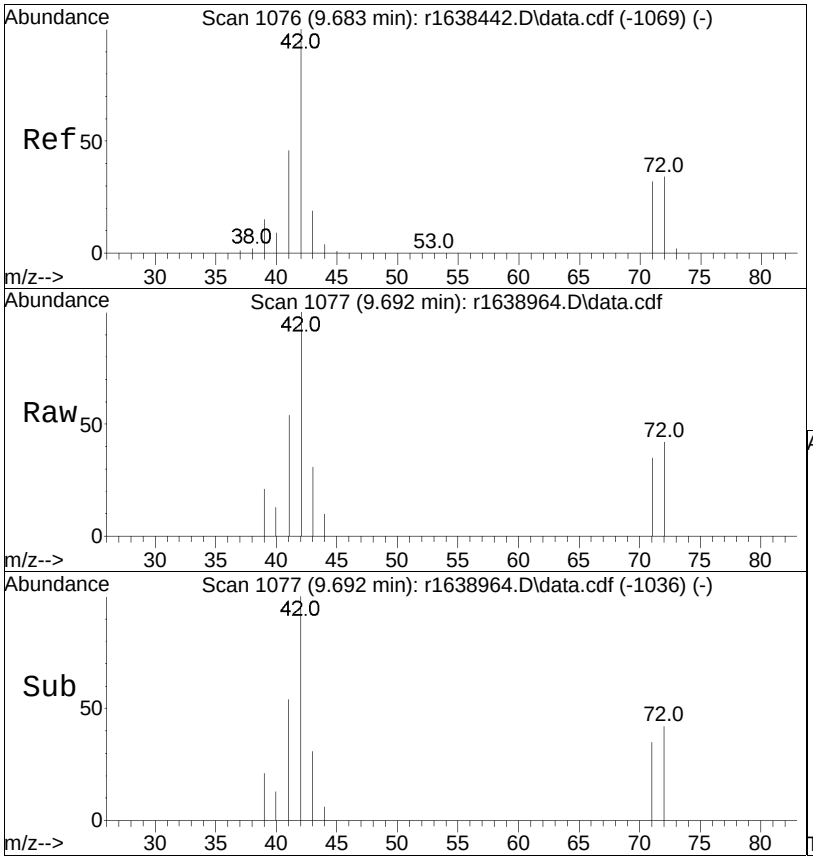


#38
Ethyl Acetate
Concen: 0.54 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 61 Resp: 2056

Ion	Ratio	Lower	Upper
61	100		
70	93.4	74.6	112.0
43	1407.6	942.0	1413.0

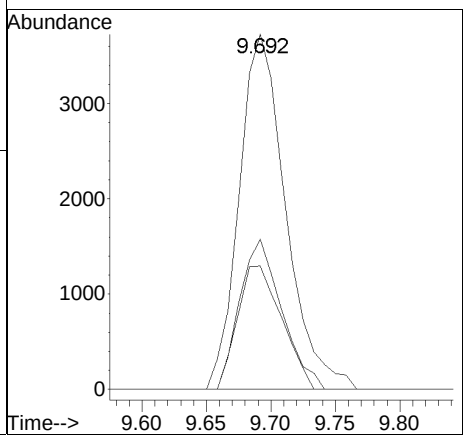


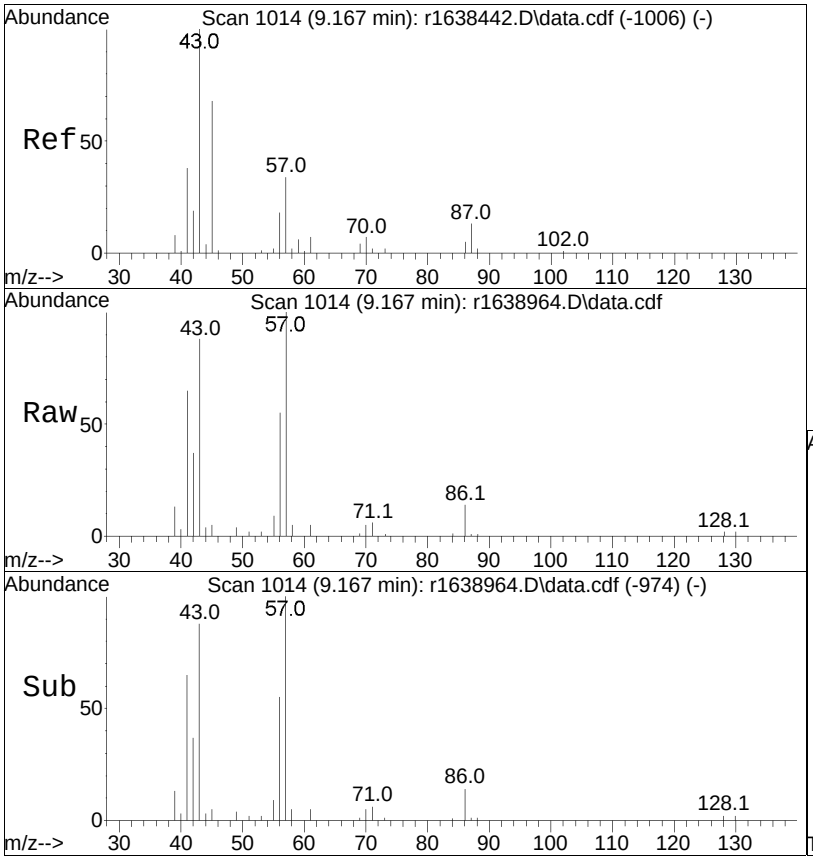


#40
Tetrahydrofuran
Concen: 0.56 ppbV
RT: 9.692 min Scan# 1077
Delta R.T. 0.008 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 42 Resp: 9360

Ion	Ratio	Lower	Upper
42	100		
71	34.7	25.6	38.4
72	42.3	27.4	41.2#

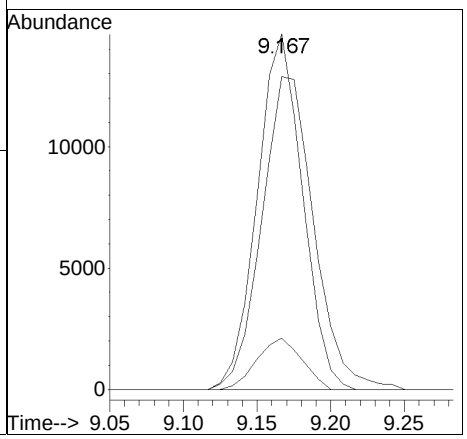


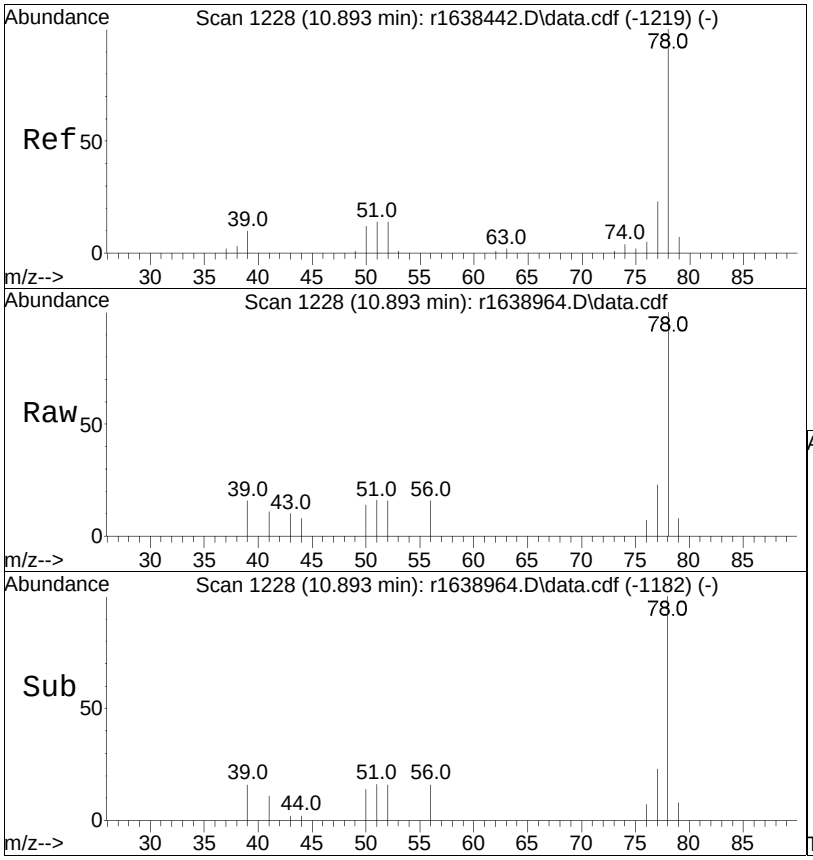


#44
hexane
Concen: 1.92 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 57 Resp: 31191

Ion	Ratio	Lower	Upper
57	100		
43	88.0	233.1	349.7#
86	14.5	12.6	18.8

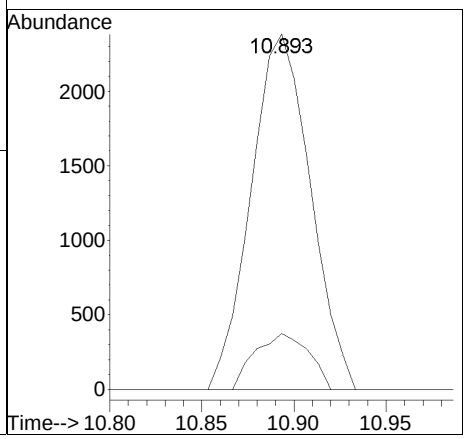


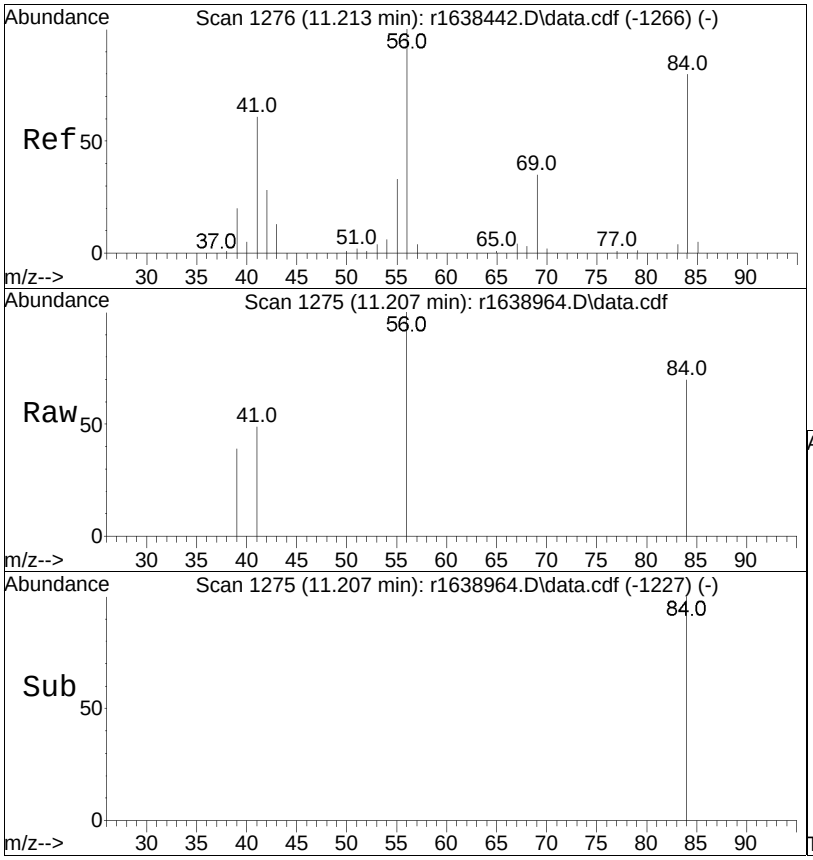


#50
benzene
Concen: 0.16 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 78 Resp: 5345

Ion	Ratio	Lower	Upper
78	100		
52	15.7	11.6	17.4

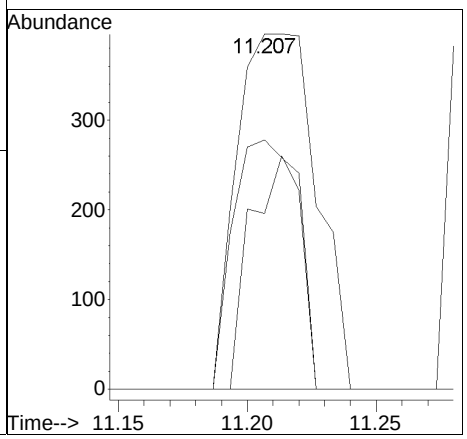


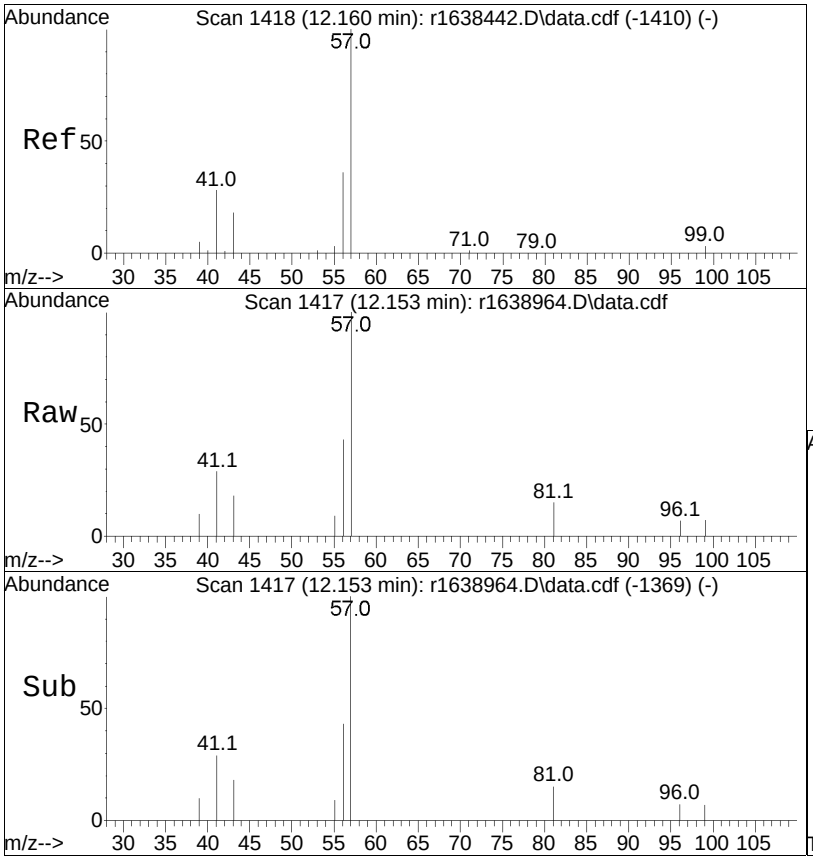


#53
cyclohexane
Concen: 0.05 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 56 Resp: 850

Ion	Ratio	Lower	Upper
56	100		
84	70.2	64.2	96.4
41	49.5	48.8	73.2

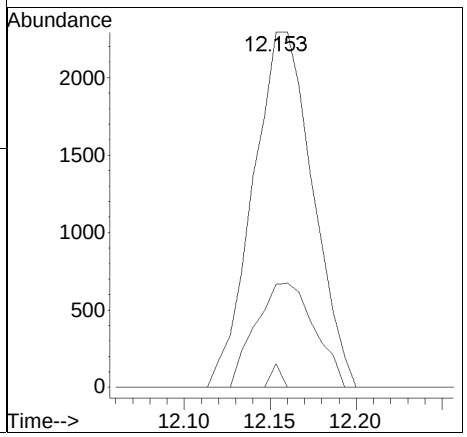


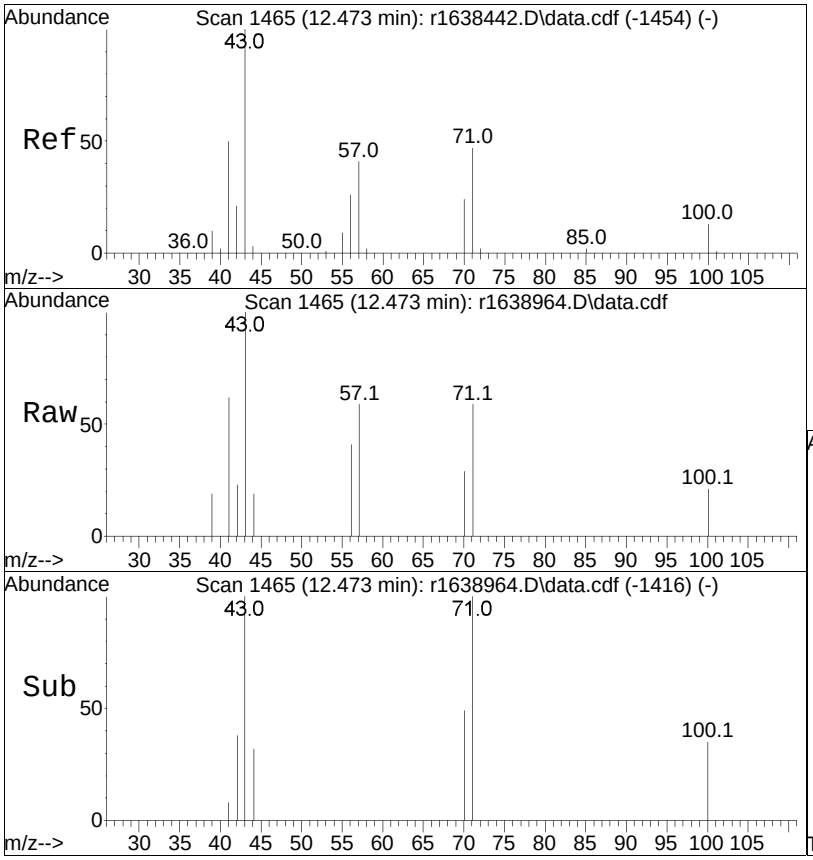


#60
2,2,4-trimethylpentane
Concen: 0.10 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 57 Resp: 5558

Ion	Ratio	Lower	Upper
57	100		
99	6.7	4.4	6.6#
41	29.0	21.9	32.9

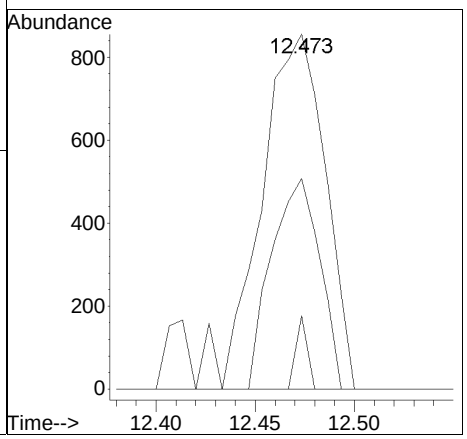


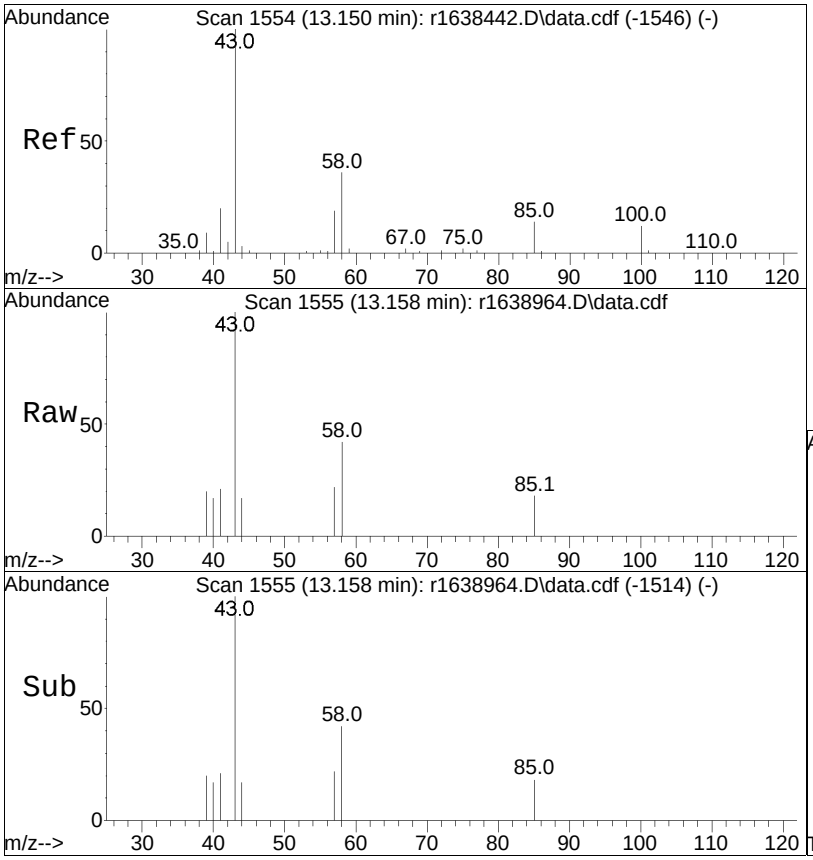


#62
heptane
Concen: 0.08 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 43 Resp: 1954

Ion	Ratio	Lower	Upper
43	100		
57	59.3	32.8	49.2#
100	20.7	10.9	16.3#

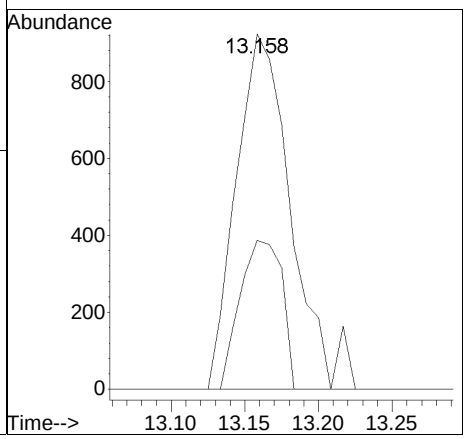


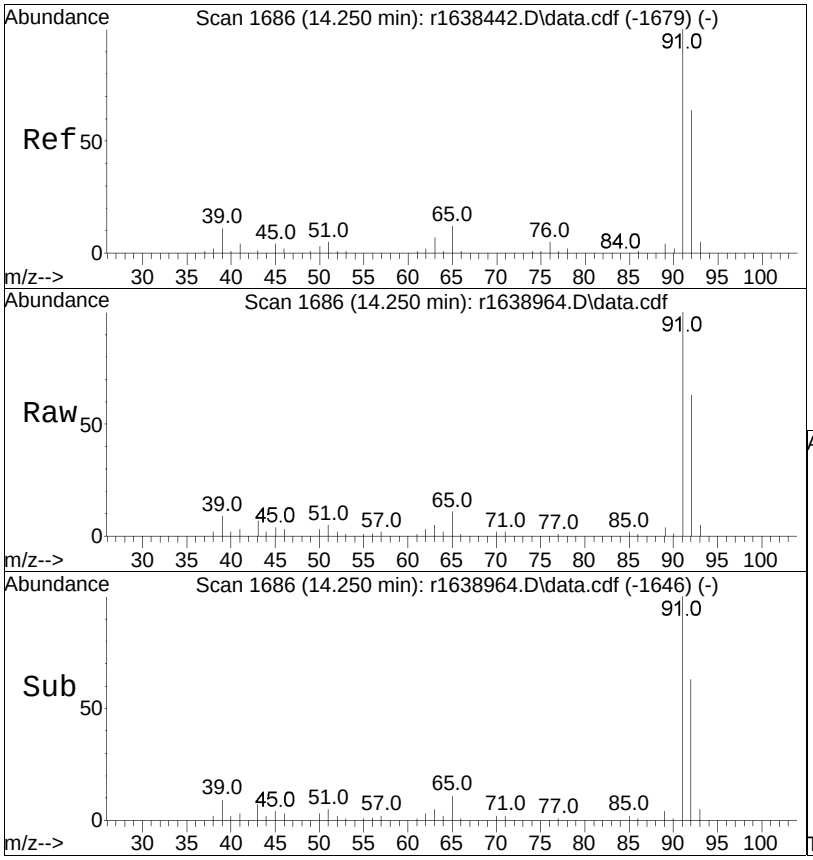


#64
4-methyl-2-pentanone
Concen: 0.08 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 43 Resp: 2397

Ion	Ratio	Lower	Upper
43	100		
58	41.9	28.6	43.0
100	0.0	9.9	14.9#

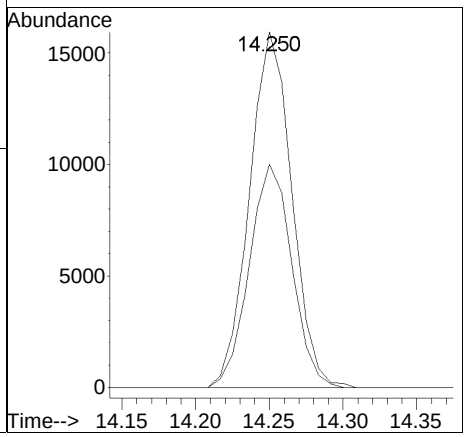


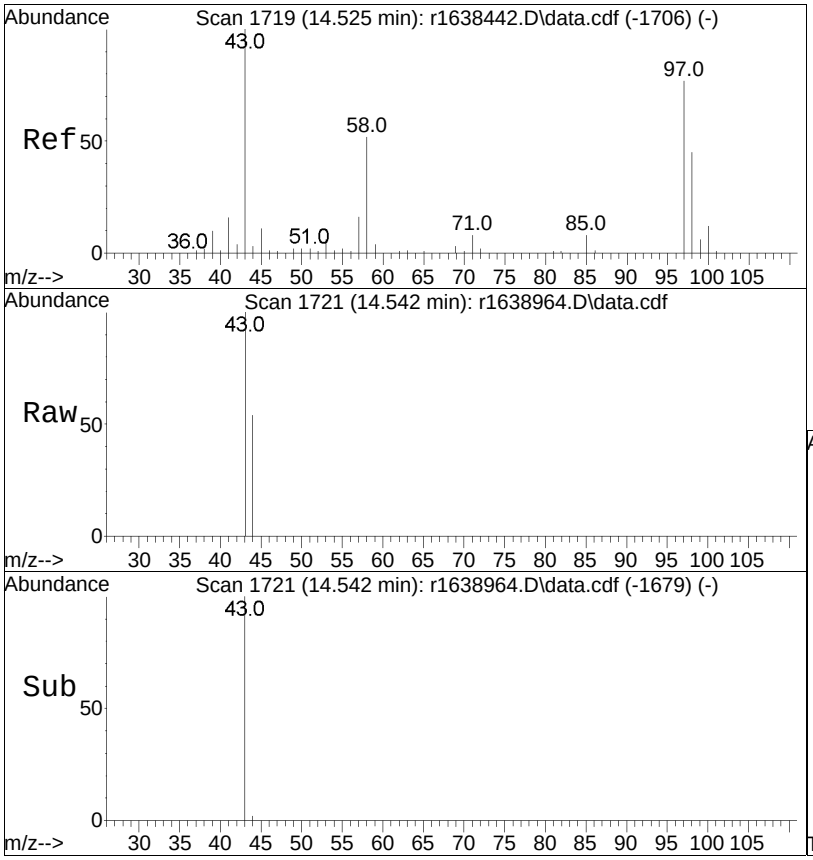


#68
toluene
Concen: 0.72 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 91 Resp: 31795

Ion	Ratio	Lower	Upper
91	100		
92	62.8	51.0	76.4

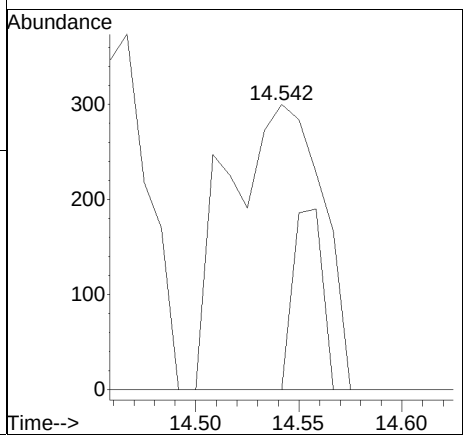


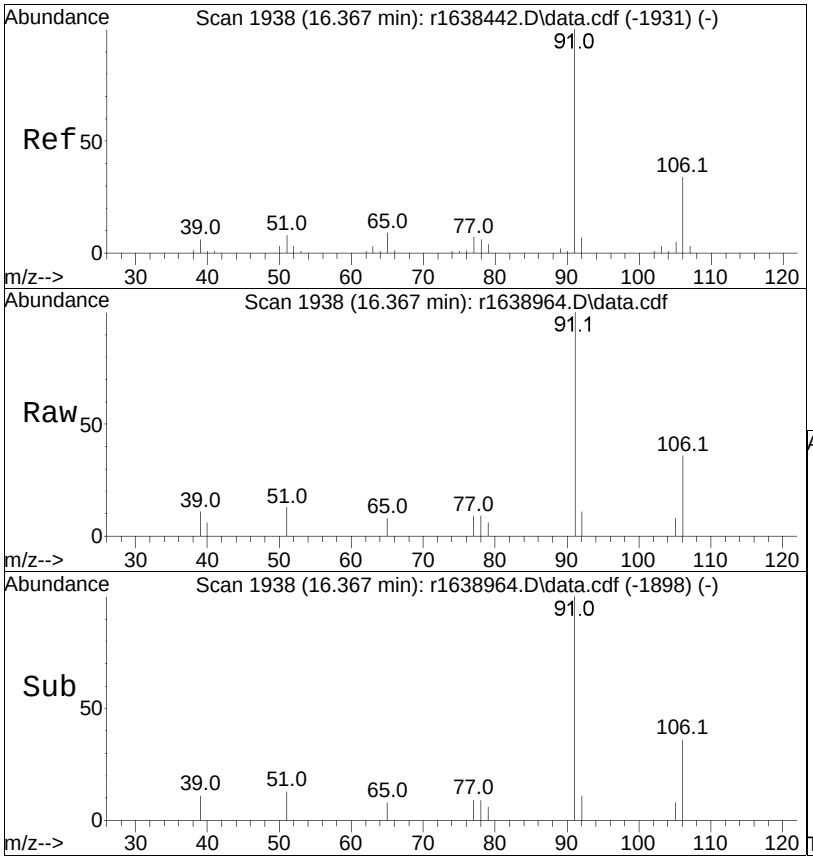


#72
2-hexanone
Concen: 0.03 ppbV
RT: 14.542 min Scan# 1721
Delta R.T. 0.017 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 43 Resp: 958

Ion	Ratio	Lower	Upper
43	100		
58	0.0	41.4	62.2#
100	0.0	9.3	13.9#

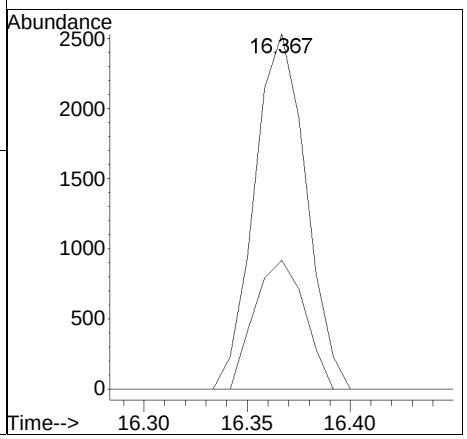


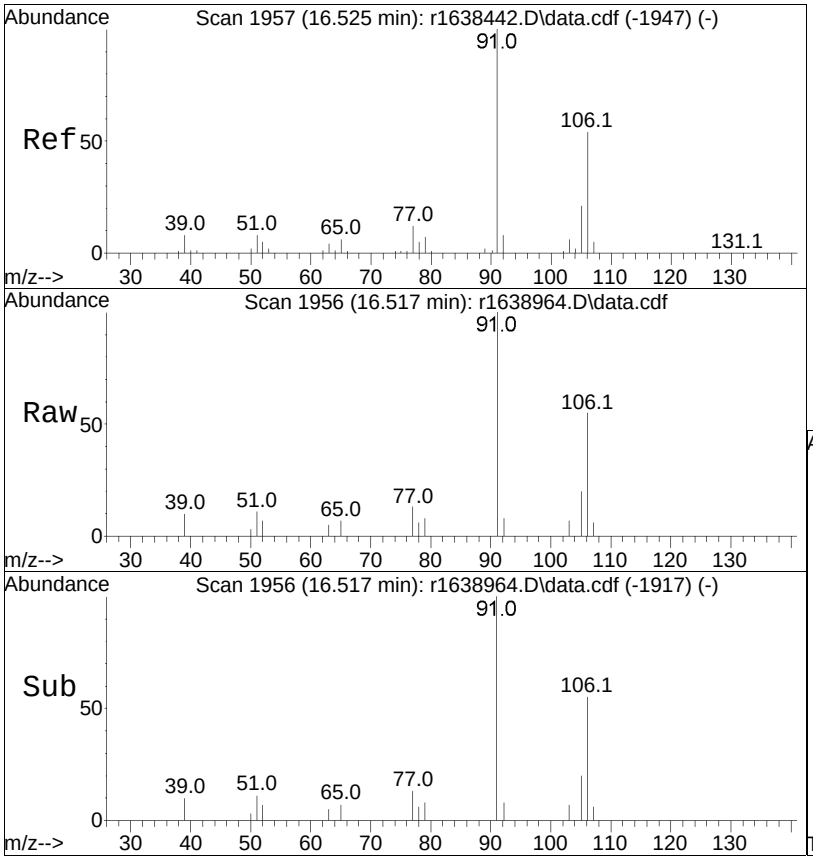


#81
ethylbenzene
Concen: 0.08 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 91 Resp: 4414

Ion	Ratio	Lower	Upper
91	100		
106	36.3	27.4	41.2

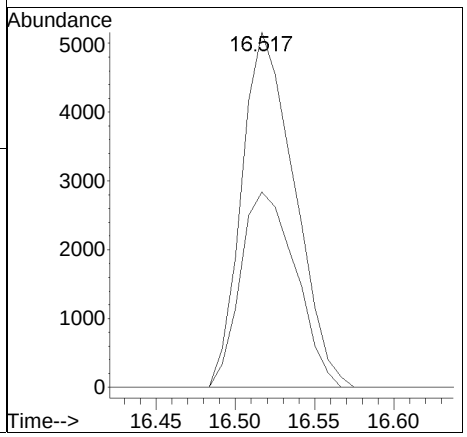


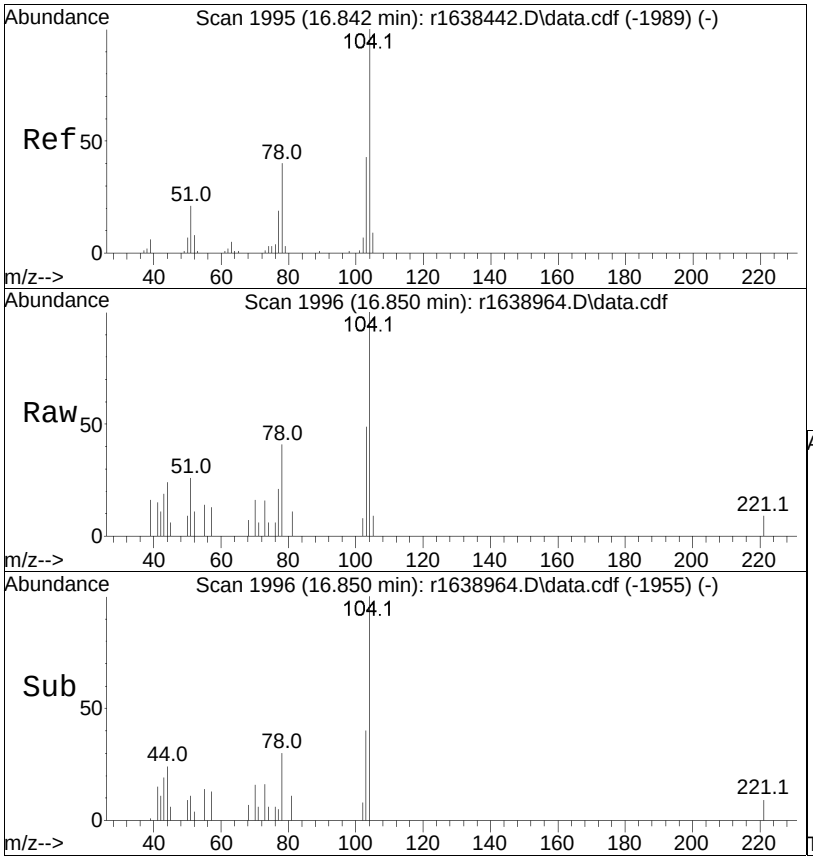


#83
m+p-xylene
Concen: 0.27 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 91 Resp: 11937

Ion	Ratio	Lower	Upper
91	100		
106	55.0	43.0	64.4

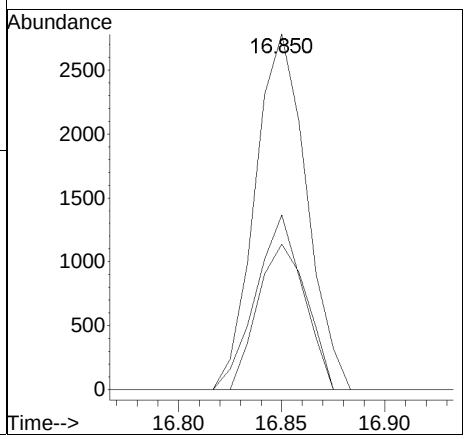


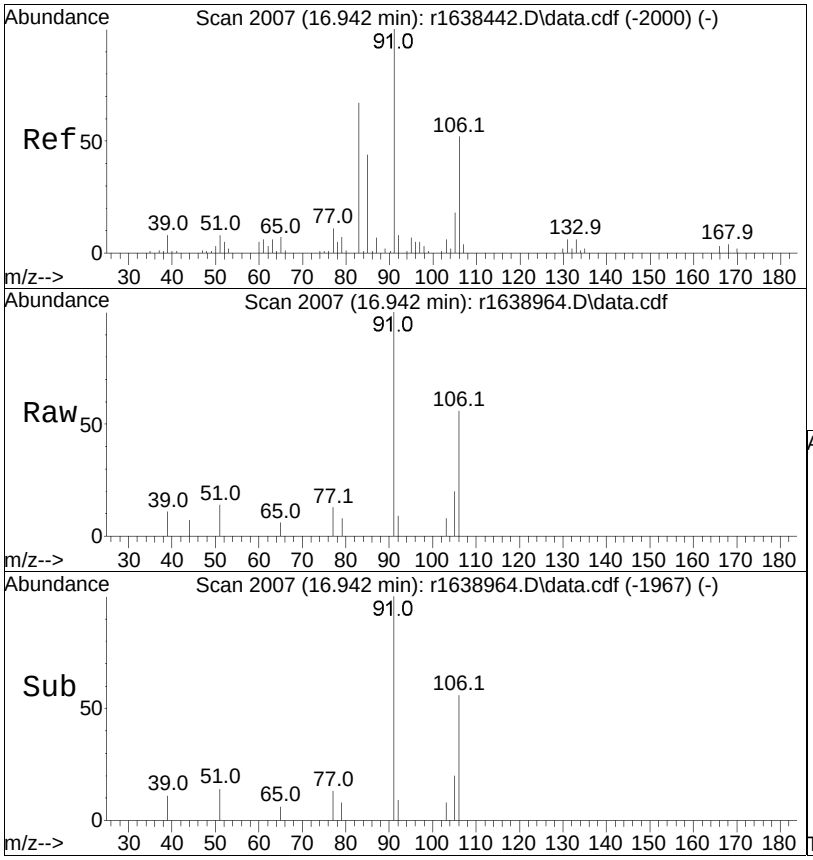


#85
styrene
Concen: 0.13 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:104 Resp: 4818

Ion	Ratio	Lower	Upper
104	100		
103	49.1	34.0	51.0
78	40.9	31.7	47.5

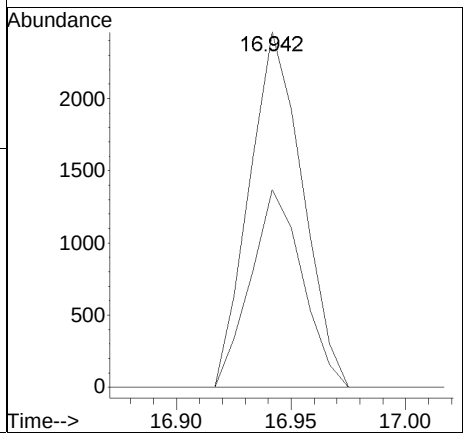


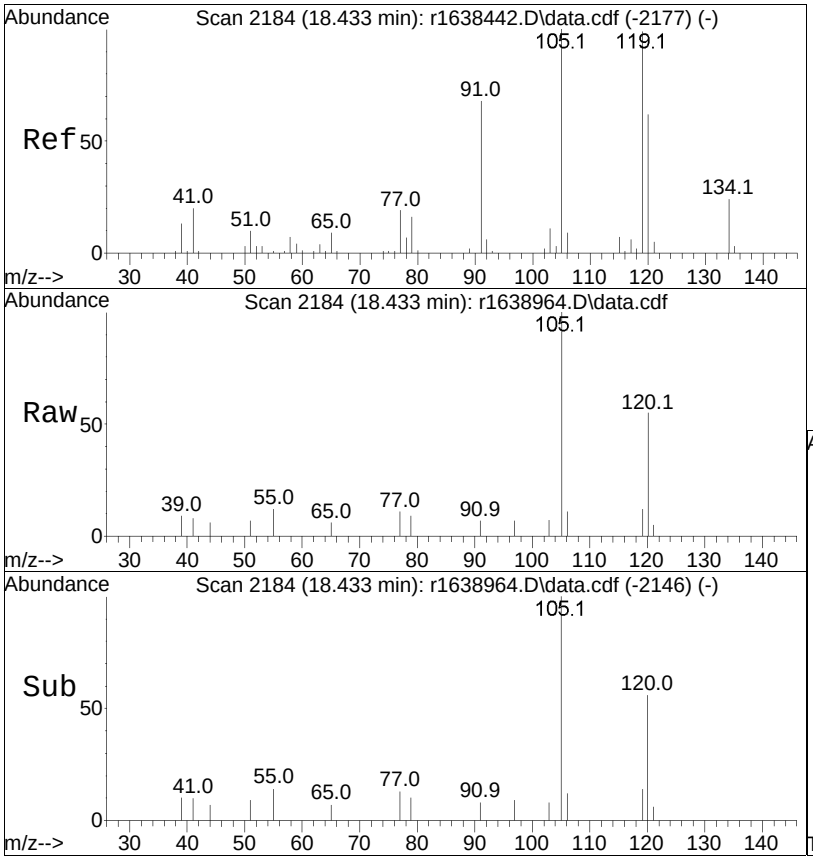


#87
o-xylene
Concen: 0.09 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 91 Resp: 3978

Ion	Ratio	Lower	Upper
91	100		
106	55.6	41.7	62.5

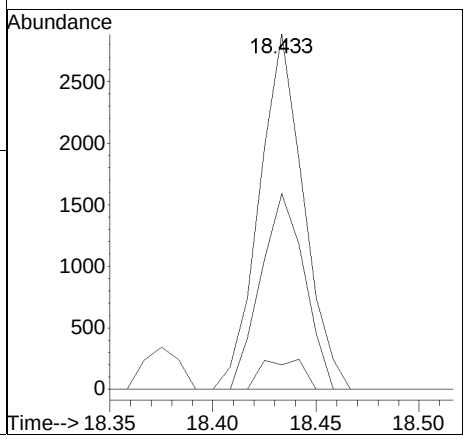




#99
1,2,4-trimethylbenzene
Concen: 0.09 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638964.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:105 Resp: 4315

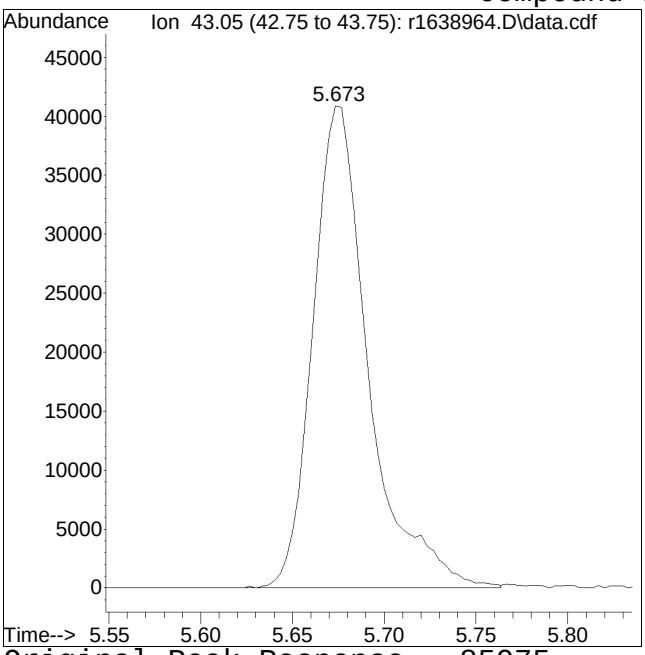
Ion	Ratio	Lower	Upper
105	100		
120	55.0	49.9	74.9
91	6.9	54.0	81.0#



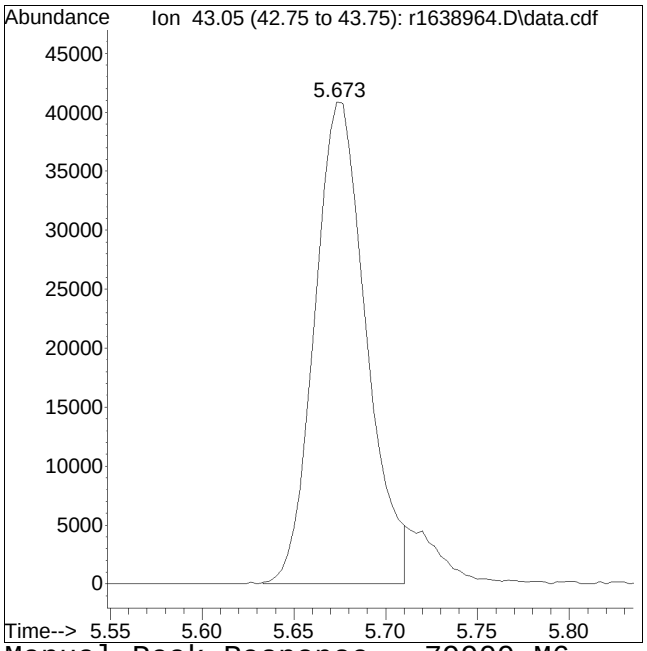
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638964.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:8: 9 Instrument :
Sample : L2347540-05,3,250,250 Quant Date : 8/23/2023 6:31 am

Compound #19: acetone



Original Peak Response = 85975



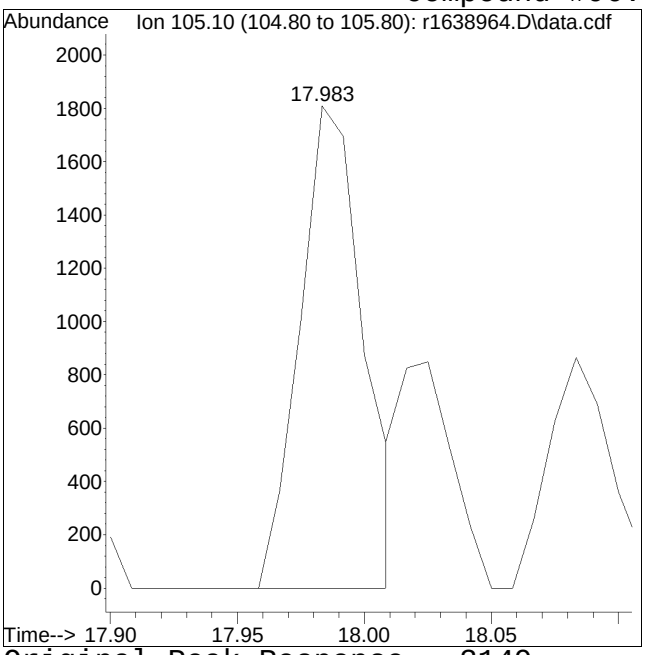
Manual Peak Response = 79900 M6

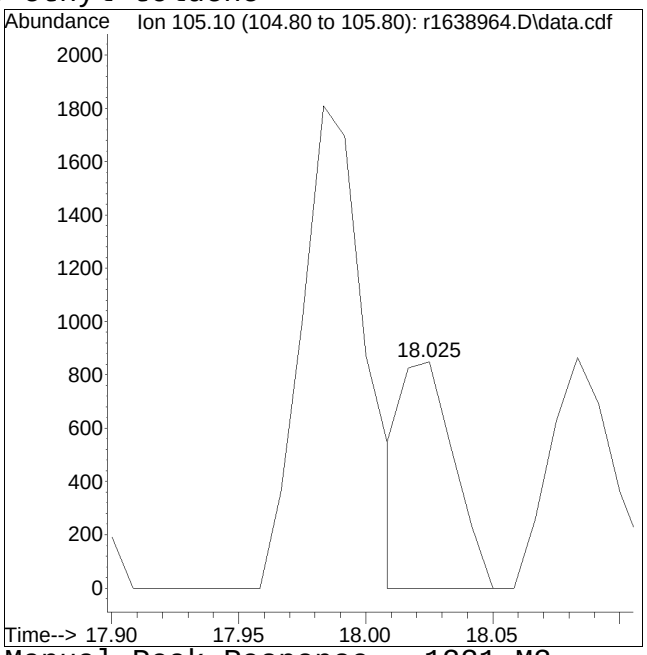
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638964.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:8: 9 Instrument :
Sample : L2347540-05,3,250,250 Quant Date : 8/23/2023 6:31 am

Compound #96: 4-ethyl toluene





Original Peak Response = 3149 Manual Peak Response = 1221 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638966.D
Acq On : 22 Aug 2023 9:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-06,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	208930	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		97.51%	
43) 1,4-difluorobenzene	11.307	114	617537	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		92.51%	
67) chlorobenzene-D5	15.983	54	78457	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		95.03%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7064	0.456	ppbV	96
6) chloromethane	4.192	50	3943	0.451	ppbV	93
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	4.570		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	403791	73.279	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.673	43	76610M6	6.890	ppbV	
21) trichlorofluoromethane	5.867	101	2153	0.197	ppbV	93
22) isopropyl alcohol	5.947	45	41393	2.574	ppbV #	96
27) tertiary butyl alcohol	6.612	59	1711	0.110	ppbV #	91
28) methylene chloride	6.708	49	4751	0.398	ppbV	87
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.008		0	N.D.		
31) Freon 113	7.002	101	964	0.049	ppbV #	88
32) trans-1,2-dichloroethene	7.750		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.983		0	N.D.		
36) 2-butanone	8.417	43	9769	0.370	ppbV #	86
38) Ethyl Acetate	9.175	61	2003	0.527	ppbV #	1
39) chloroform	9.250	83	669	0.040	ppbV #	80
40) Tetrahydrofuran	9.700	42	2736	0.164	ppbV	95
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	3418	0.210	ppbV	88
50) benzene	10.893	78	6591	0.197	ppbV	96
53) cyclohexane	11.207	56	1135	0.066	ppbV	86
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638966.D
Acq On : 22 Aug 2023 9:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-06,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

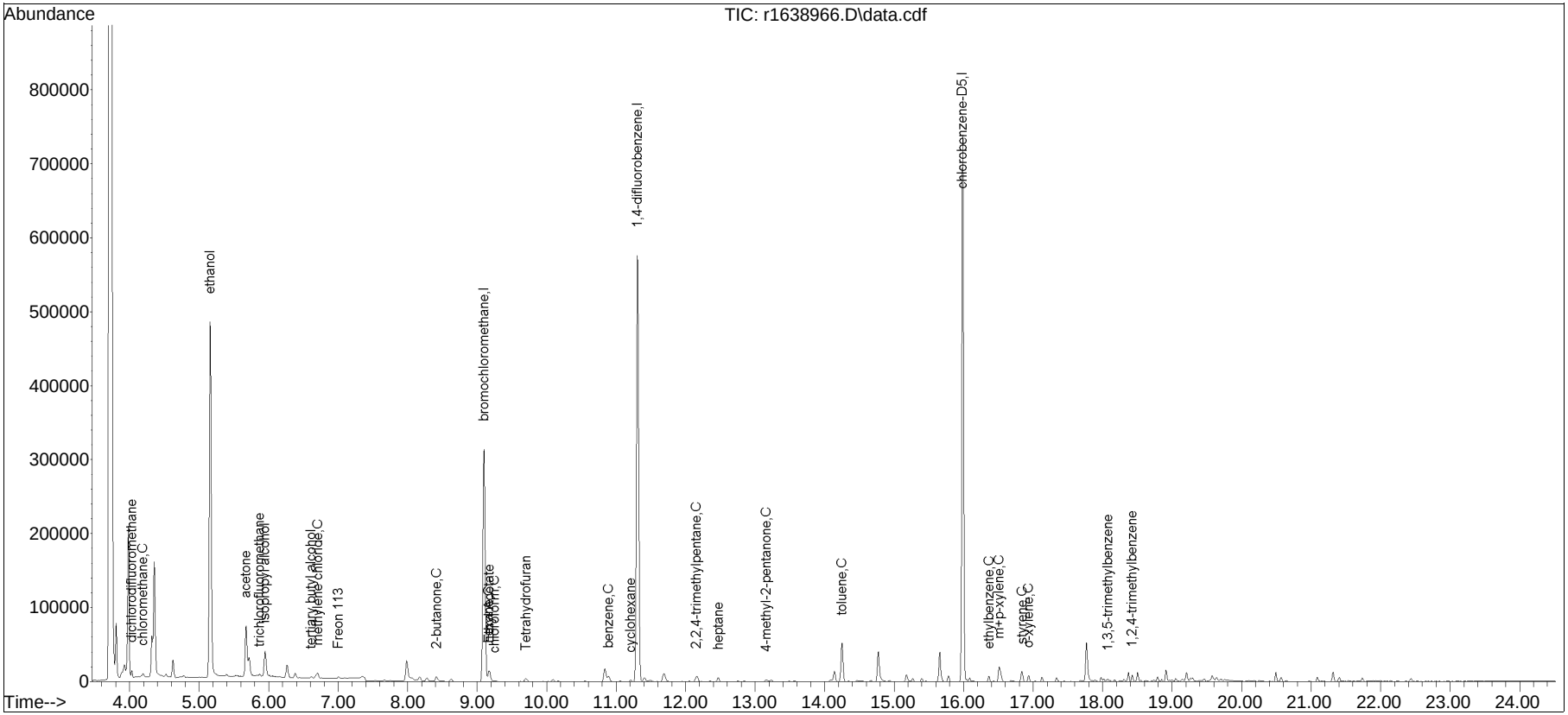
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.153	57	7294	0.137	ppbV #	94
62) heptane	12.473	43	2954	0.118	ppbV	93
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	2828	0.098	ppbV #	90
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	40979	0.928	ppbV	99
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.367	91	5589	0.101	ppbV	96
83) m+p-xylene	16.508	91	16284	0.374	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	16.842	104	5039	0.139	ppbV	97
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.933	91	5326	0.122	ppbV	94
96) 4-ethyl toluene	18.017		0	N.D.		
97) 1,3,5-trimethylbenzene	18.075	105	1626	0.031	ppbV #	88
99) 1,2,4-trimethylbenzene	18.425	105	5108	0.101	ppbV #	57
101) Benzyl Chloride	18.425		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

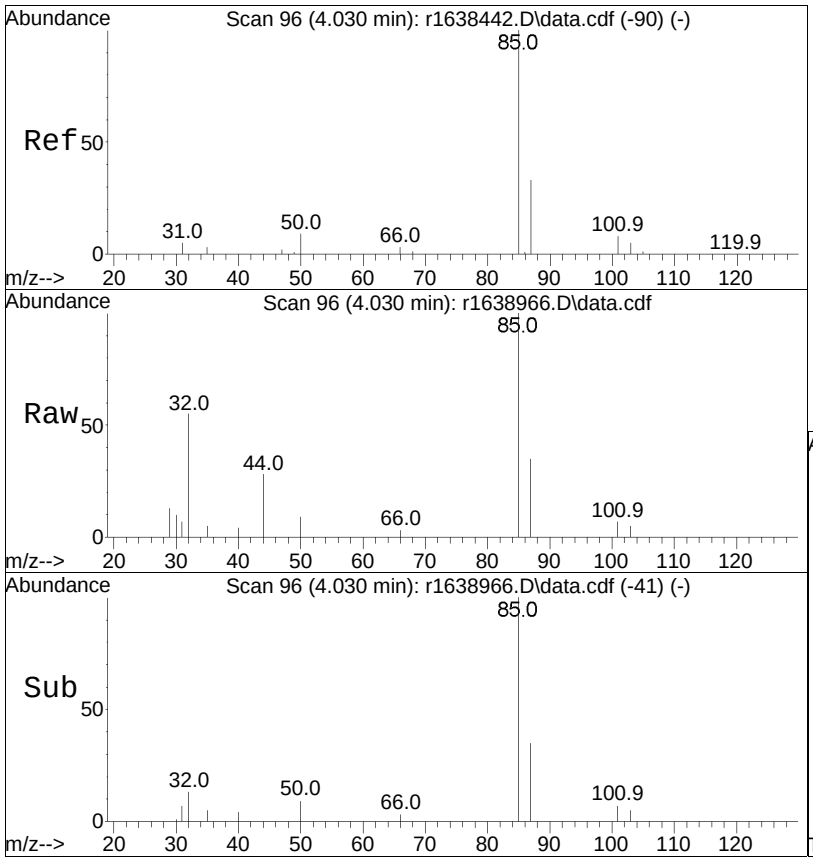
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638966.D
Acq On : 22 Aug 2023 9:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-06,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

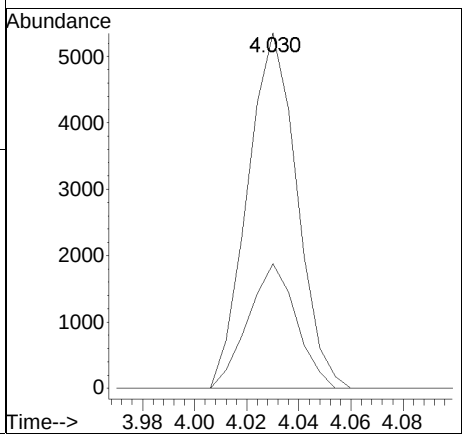


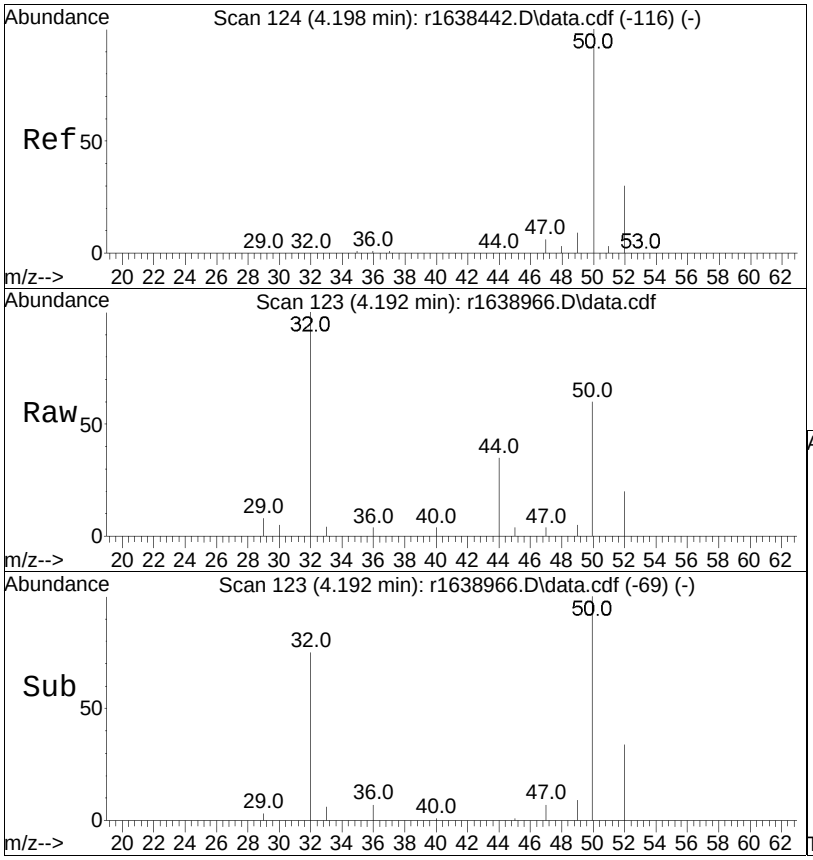


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 85 Resp: 7064

Ion	Ratio	Lower	Upper
85	100		
87	35.1	26.2	39.2

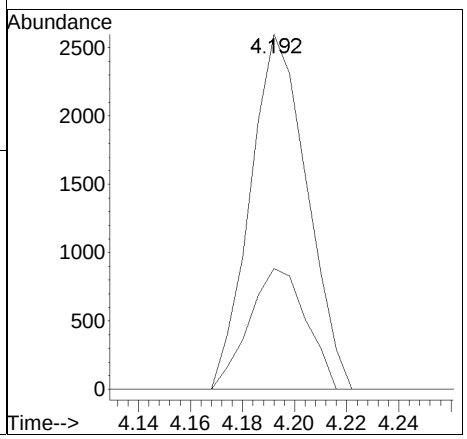


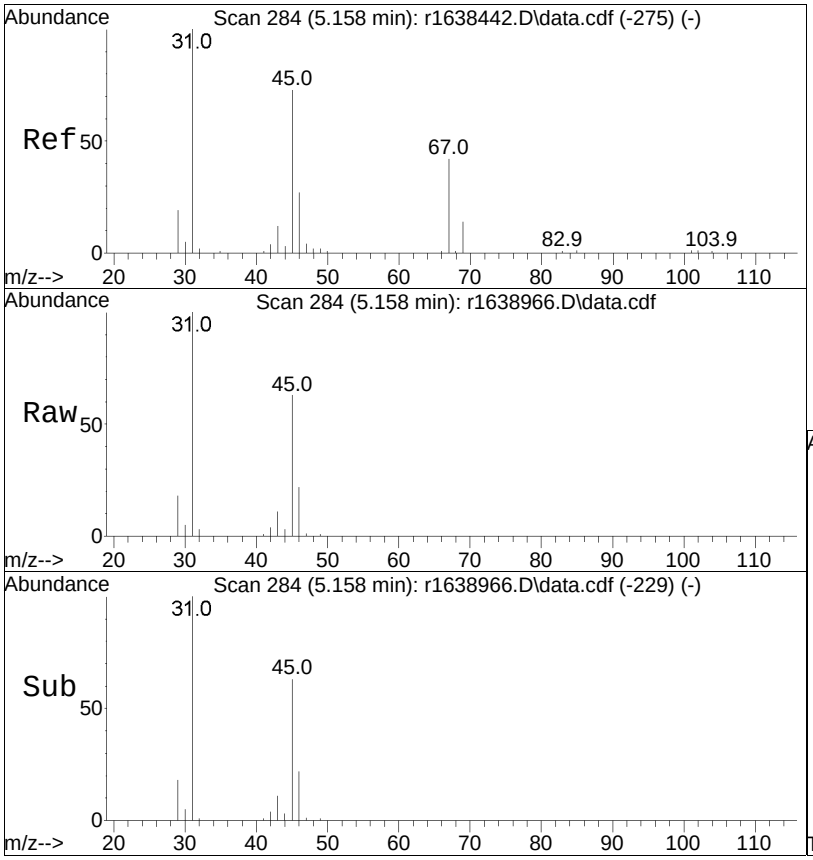


#6
chloromethane
Concen: 0.45 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 50 Resp: 3943

Ion	Ratio	Lower	Upper
50	100		
52	34.0	24.3	36.5

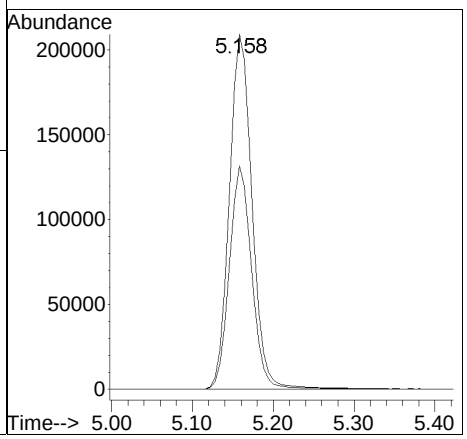


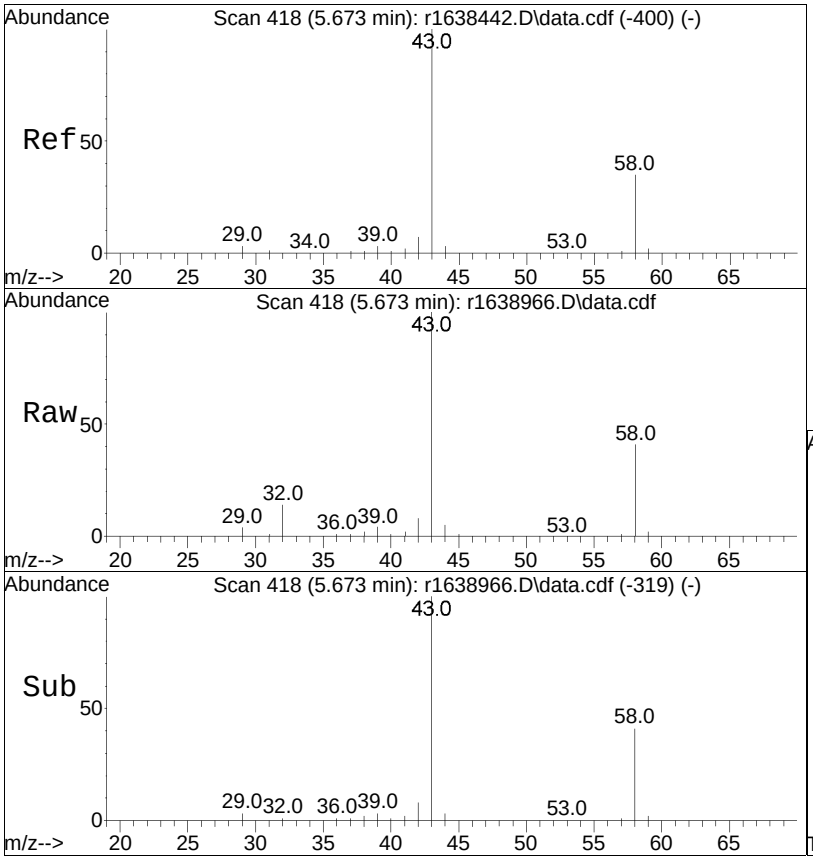


#15
ethanol
Concen: 73.28 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 31 Resp: 403791

Ion	Ratio	Lower	Upper
31	100		
45	62.9	58.6	87.8

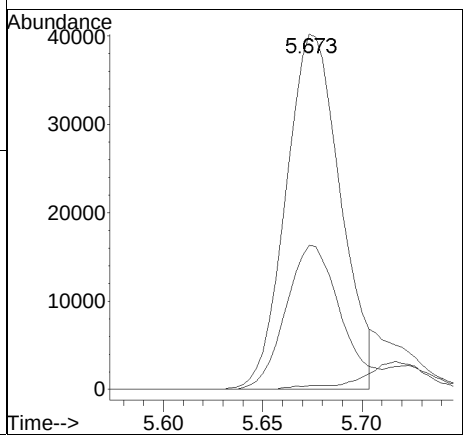


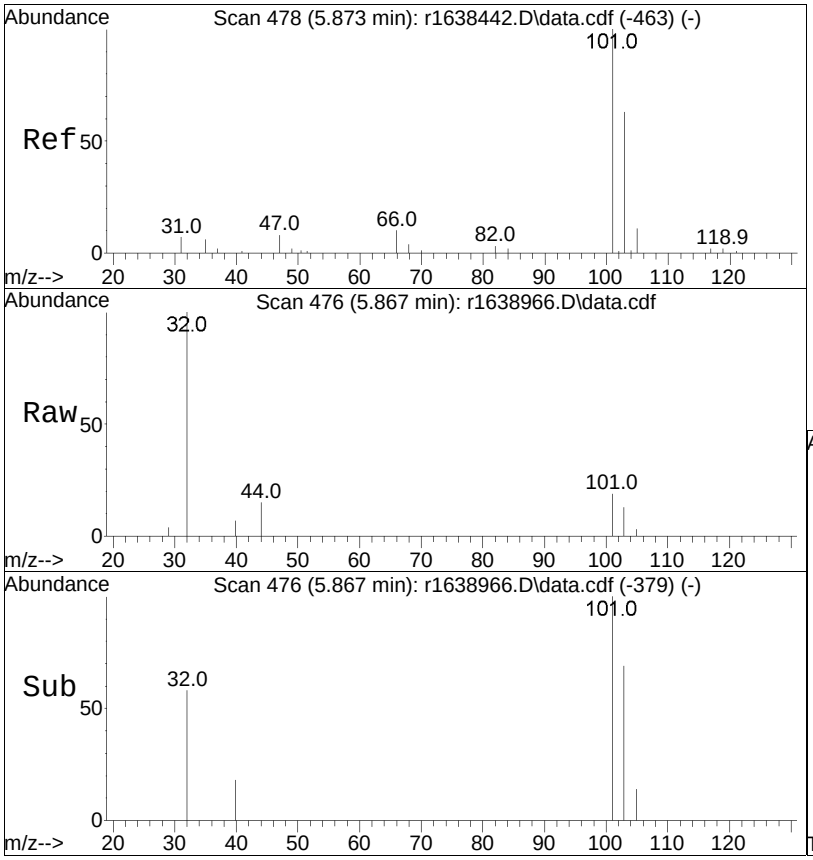


#19
acetone
Concen: 6.89 ppbV m
RT: 5.673 min Scan# 418
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 43 Resp: 76610

Ion	Ratio	Lower	Upper
43	100		
58	40.6	28.3	42.5
57	1.1	0.6	1.0#

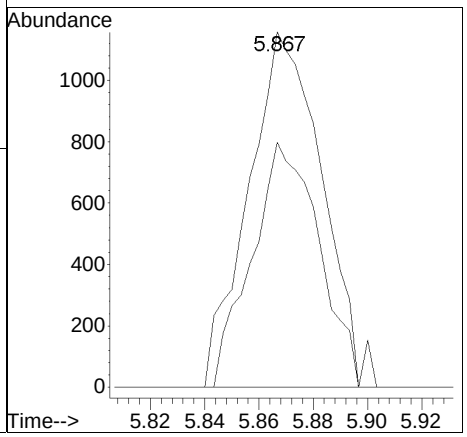


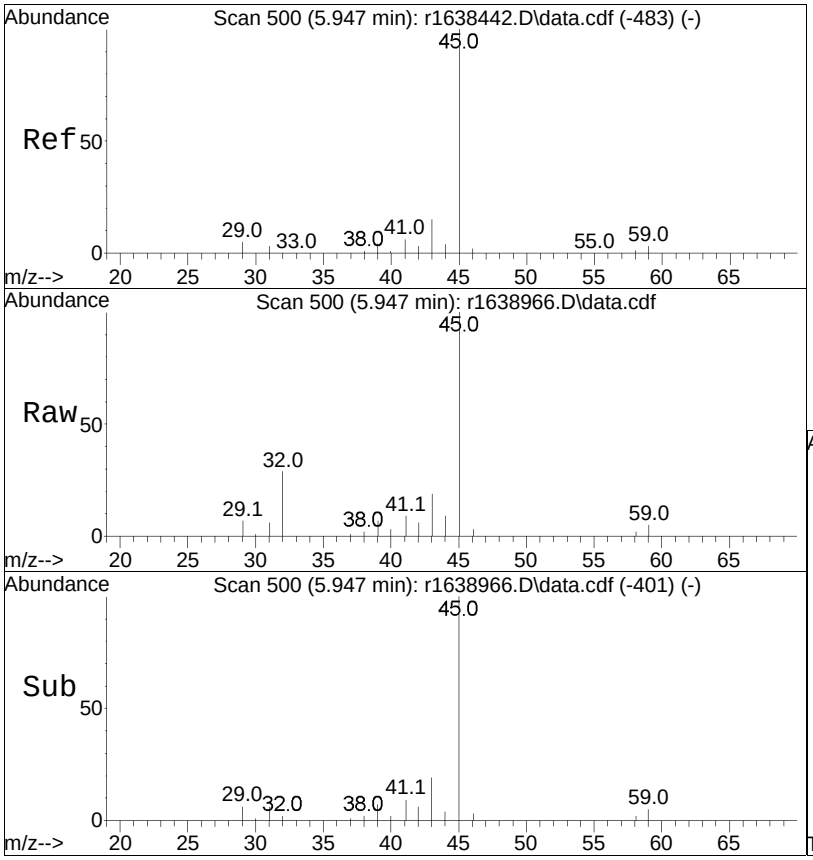


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.867 min Scan# 476
Delta R.T. -0.007 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:101 Resp: 2153

Ion	Ratio	Lower	Upper
101	100		
103	69.0	50.6	76.0

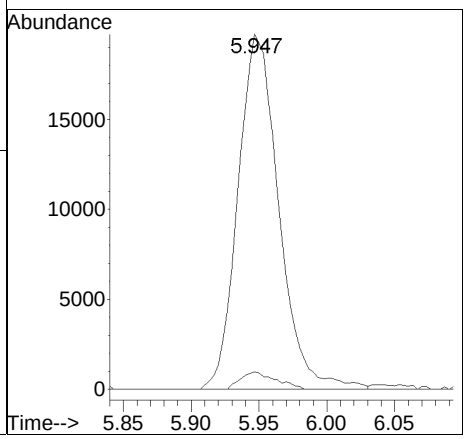


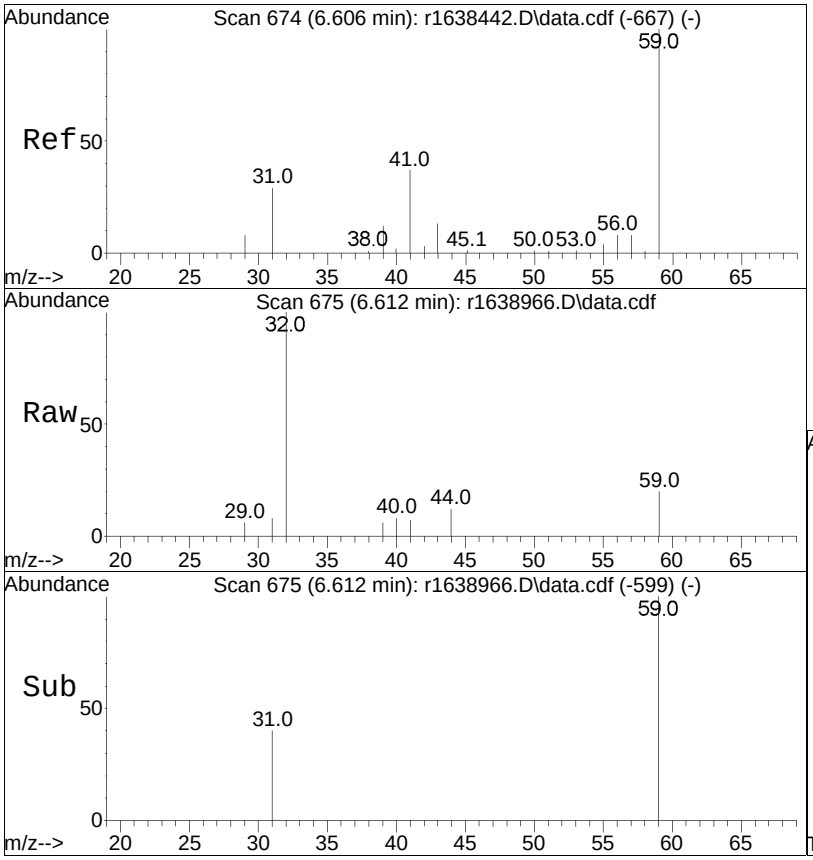


#22
isopropyl alcohol
Concen: 2.57 ppbV
RT: 5.947 min Scan# 500
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 45 Resp: 41393

Ion	Ratio	Lower	Upper
45	100		
59	4.9	2.8	4.2#

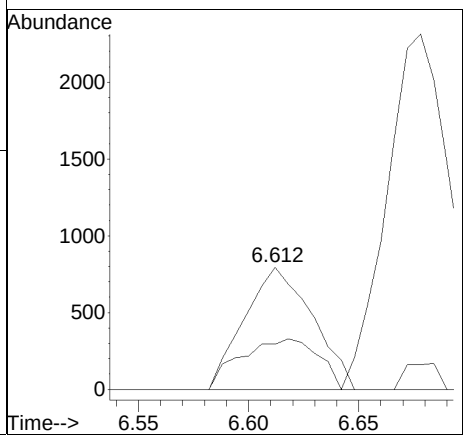


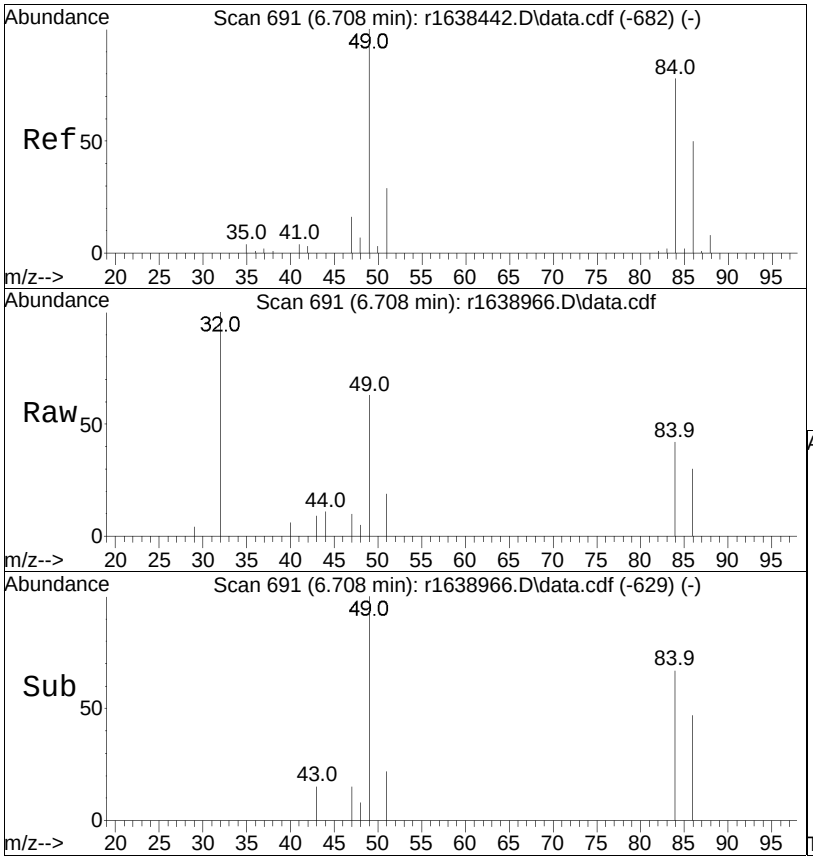


#27
tertiary butyl alcohol
Concen: 0.11 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 59 Resp: 1711

Ion	Ratio	Lower	Upper
59	100		
41	37.1	29.3	43.9
43	0.0	10.1	15.1#

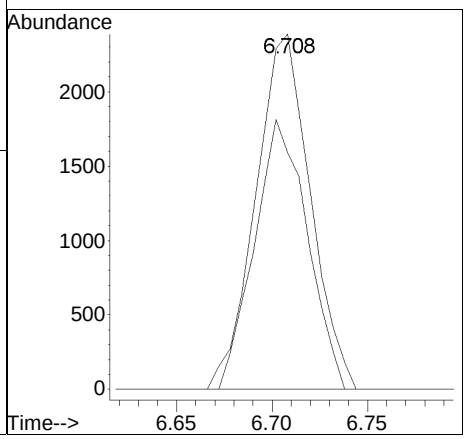


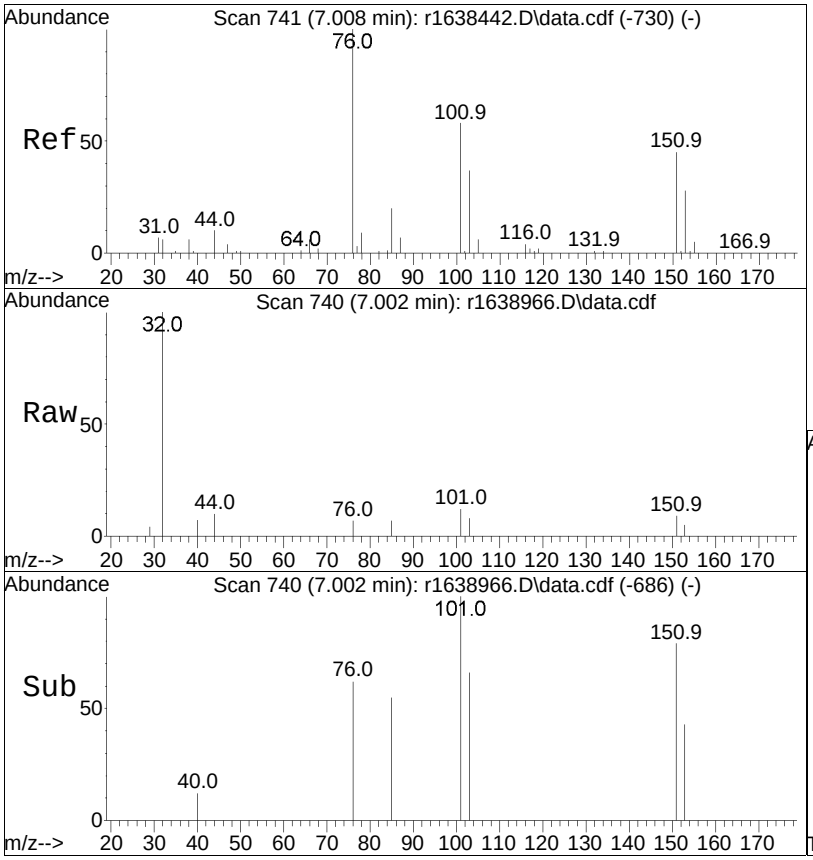


#28
methylene chloride
Concen: 0.40 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 49 Resp: 4751

Ion	Ratio	Lower	Upper
49	100		
84	66.7	62.4	93.6

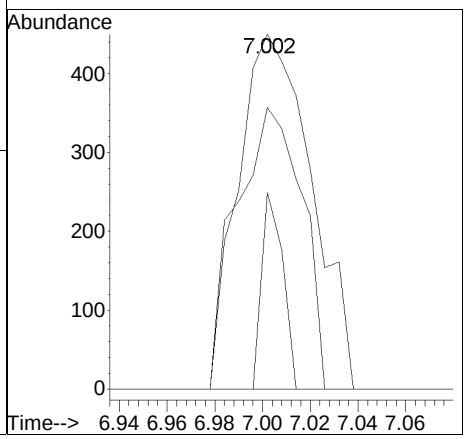


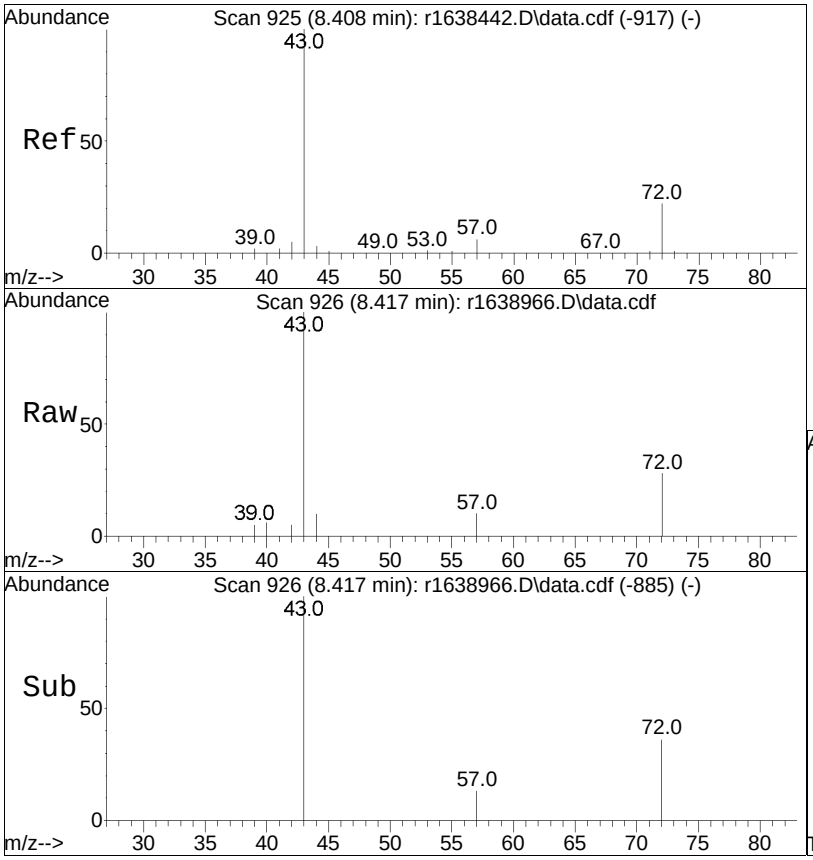


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:101 Resp: 964

Ion	Ratio	Lower	Upper
101	100		
85	55.3	27.8	41.6#
151	79.3	62.2	93.4

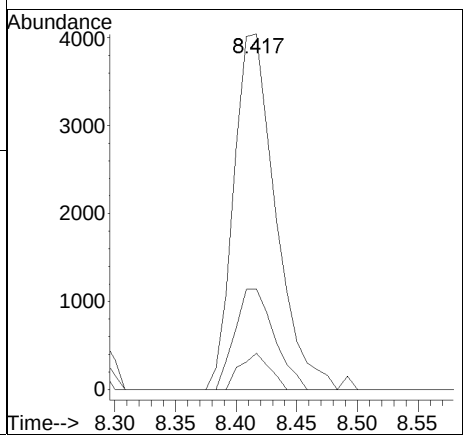


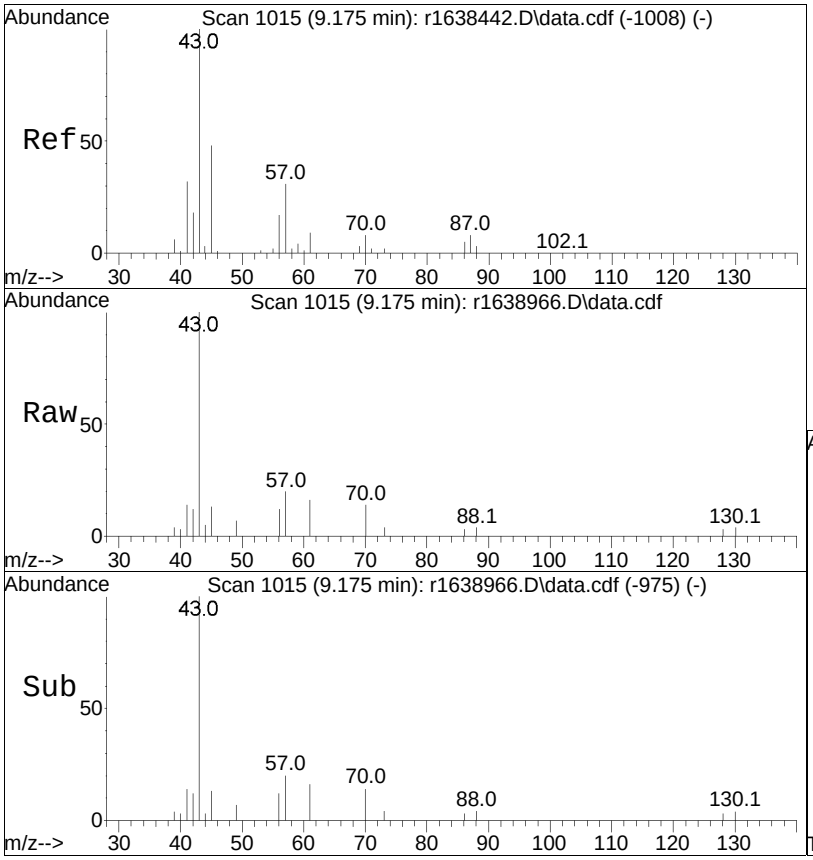


#36
2-butanone
Concen: 0.37 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 43 Resp: 9769

Ion	Ratio	Lower	Upper
43	100		
72	28.3	17.4	26.0#
57	10.2	4.8	7.2#

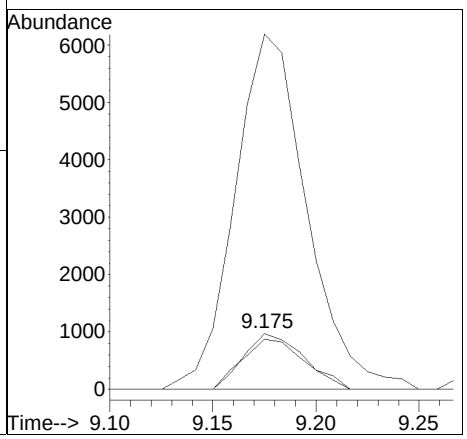


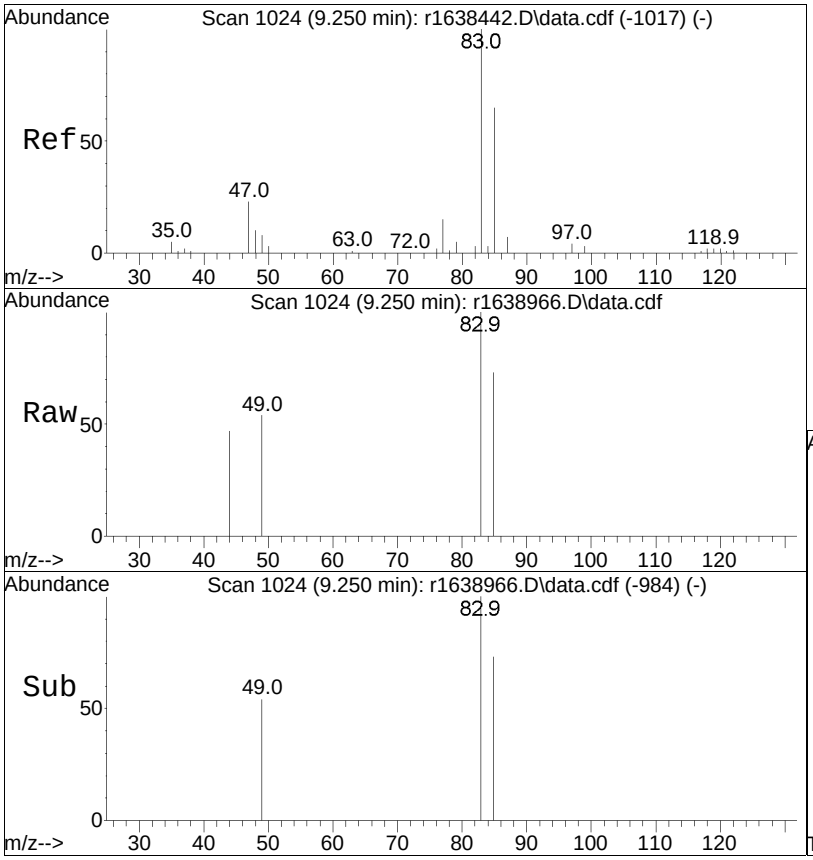


#38
Ethyl Acetate
Concen: 0.53 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 61 Resp: 2003

Ion	Ratio	Lower	Upper
61	100		
70	89.9	74.6	112.0
43	637.1	942.0	1413.0#

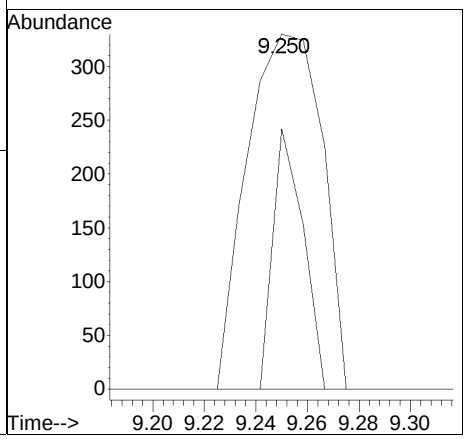


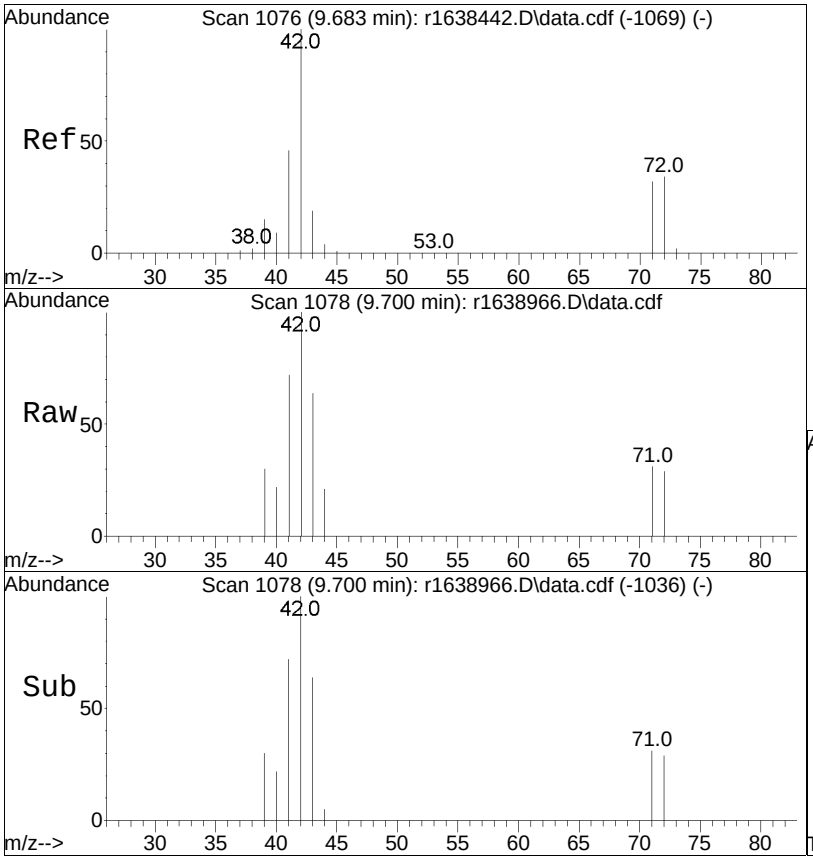


#39
chloroform
Concen: 0.04 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 83 Resp: 669

Ion	Ratio	Lower	Upper
83	100		
85	73.3	51.9	77.9
47	0.0	18.0	27.0#

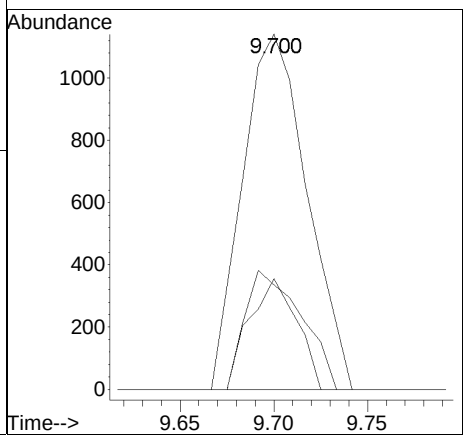


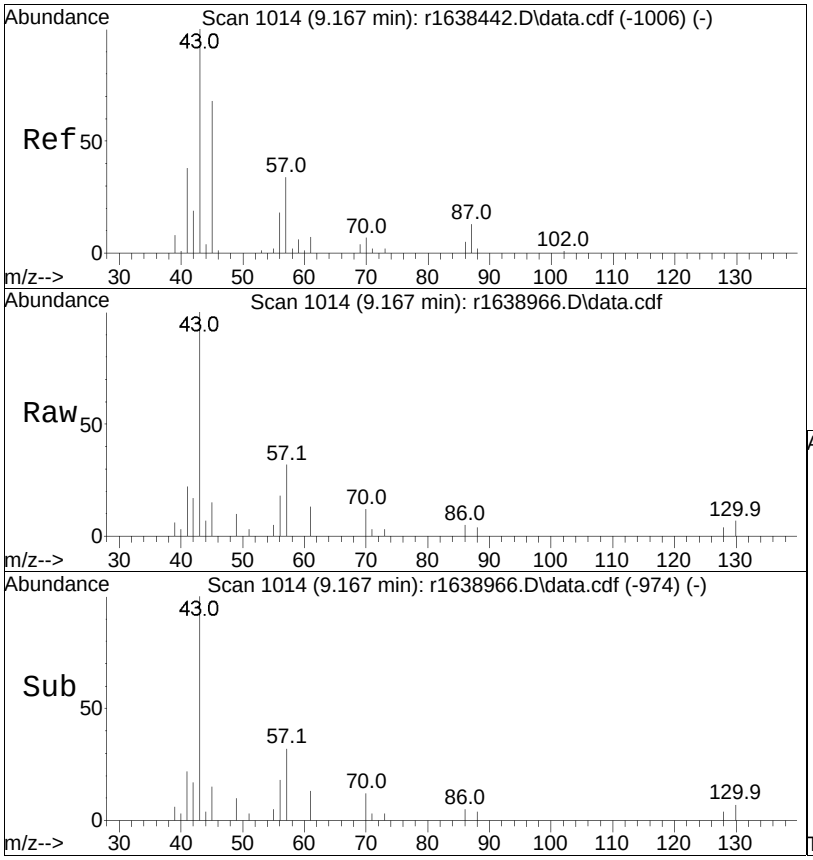


#40
Tetrahydrofuran
Concen: 0.16 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 42 Resp: 2736

Ion	Ratio	Lower	Upper
42	100		
71	31.2	25.6	38.4
72	29.4	27.4	41.2

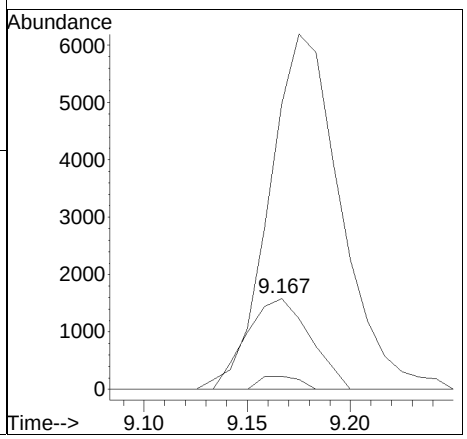


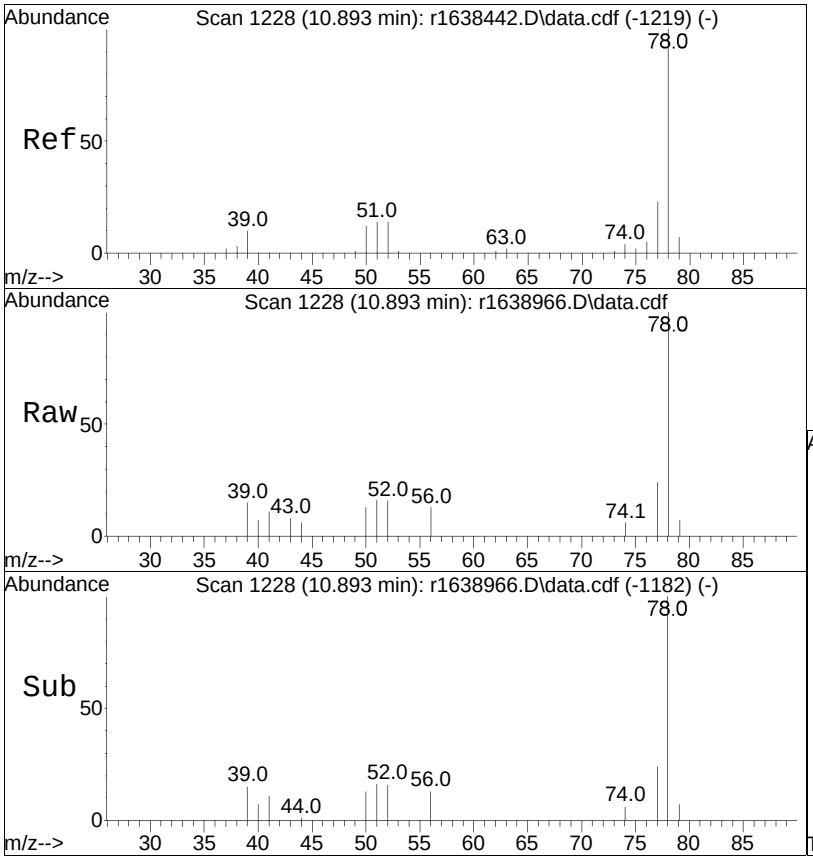


#44
hexane
Concen: 0.21 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 57 Resp: 3418

Ion	Ratio	Lower	Upper
57	100		
43	314.7	233.1	349.7
86	14.5	12.6	18.8

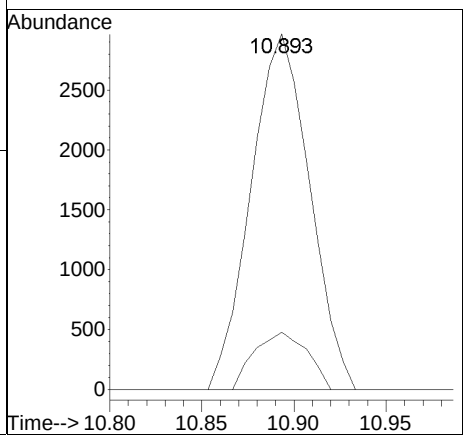


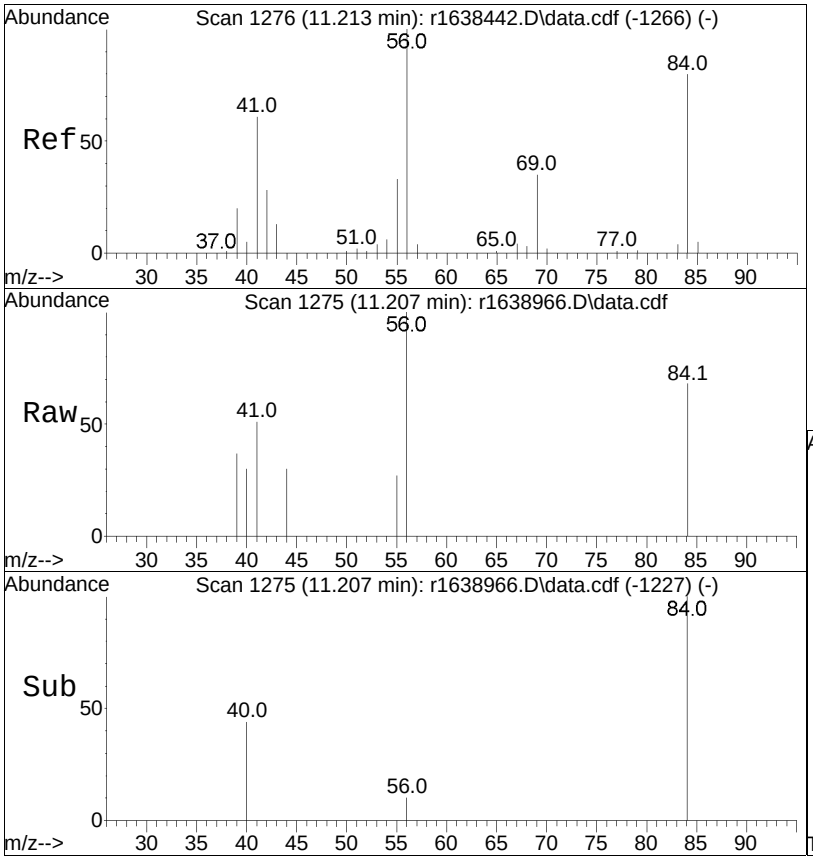


#50
benzene
Concen: 0.20 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 78 Resp: 6591

Ion	Ratio	Lower	Upper
78	100		
52	16.1	11.6	17.4

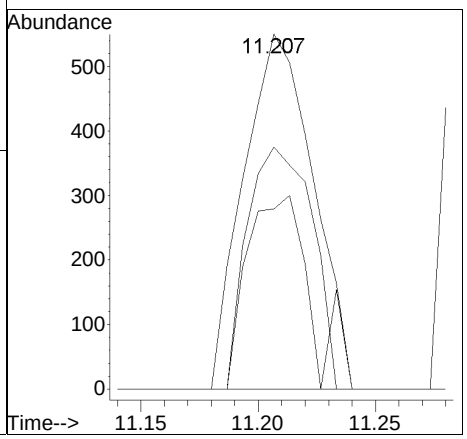


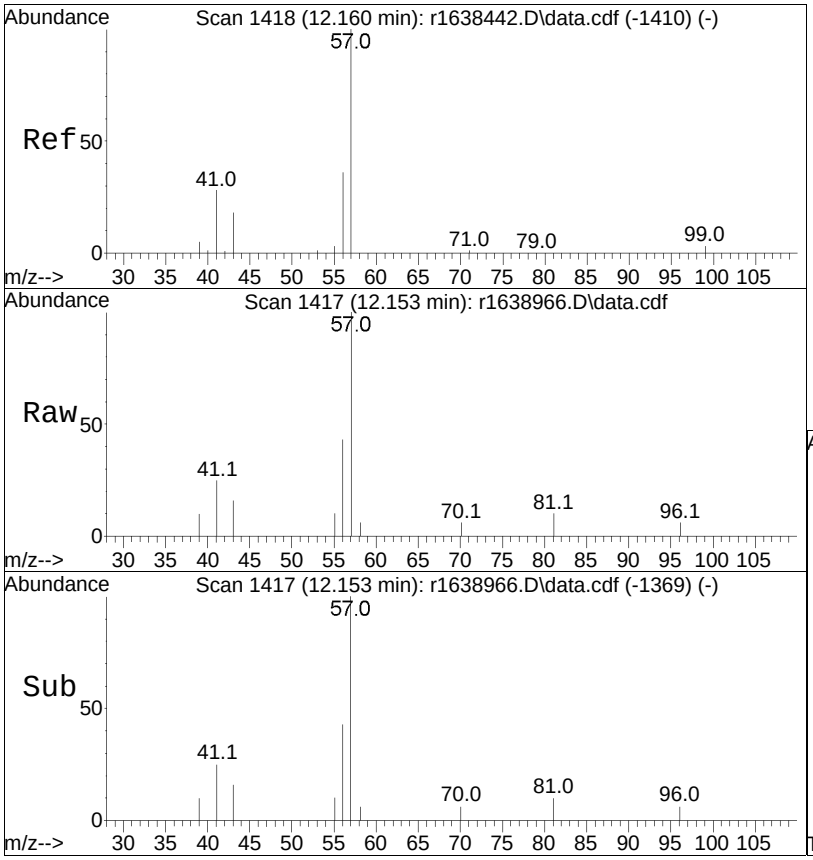


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 56 Resp: 1135

Ion	Ratio	Lower	Upper
56	100		
84	68.2	64.2	96.4
41	50.7	48.8	73.2

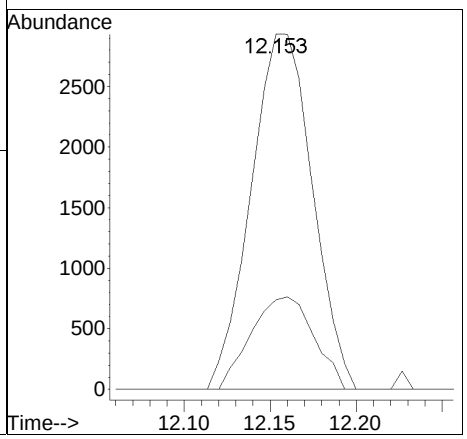


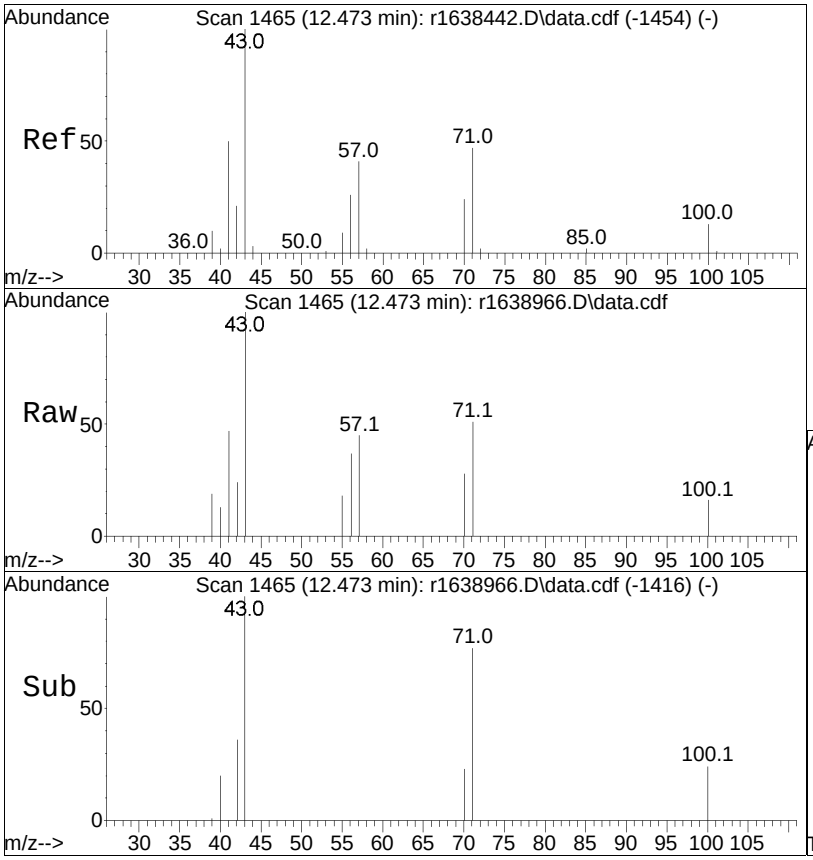


#60
2,2,4-trimethylpentane
Concen: 0.14 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 57 Resp: 7294

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.4	6.6#
41	25.2	21.9	32.9

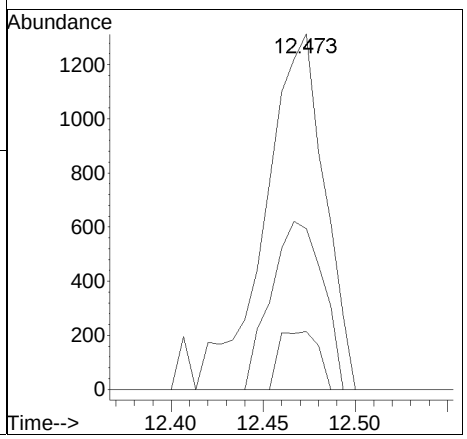


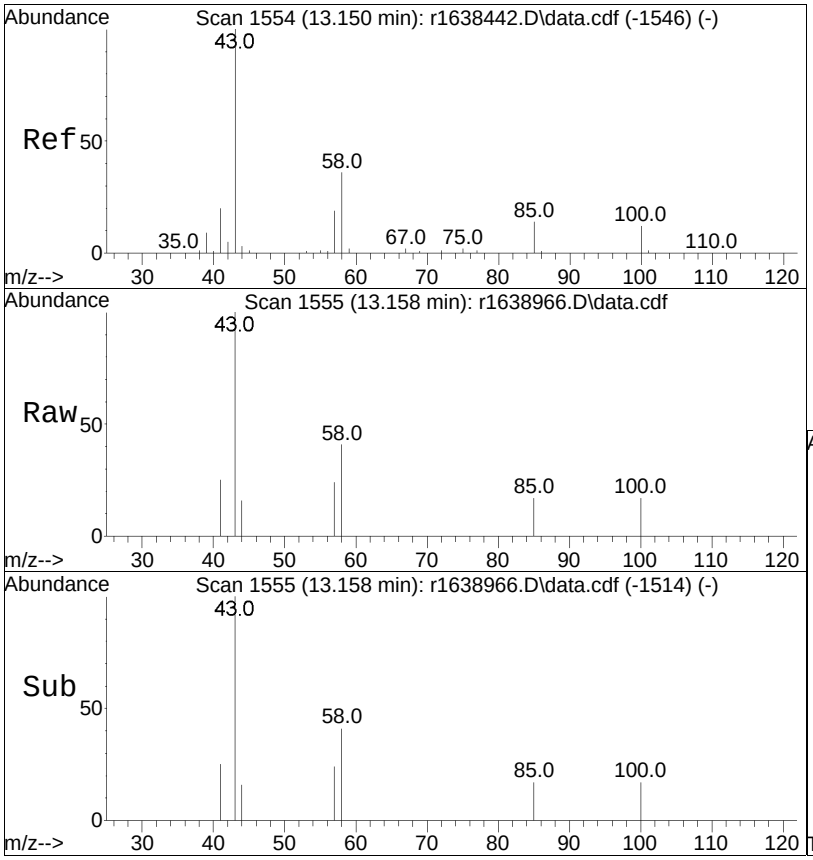


#62
heptane
Concen: 0.12 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 43 Resp: 2954

Ion	Ratio	Lower	Upper
43	100		
57	45.2	32.8	49.2
100	16.3	10.9	16.3

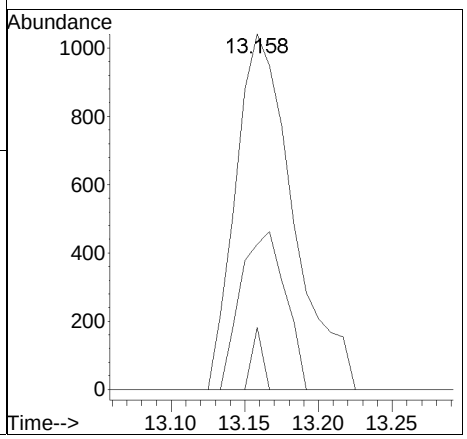


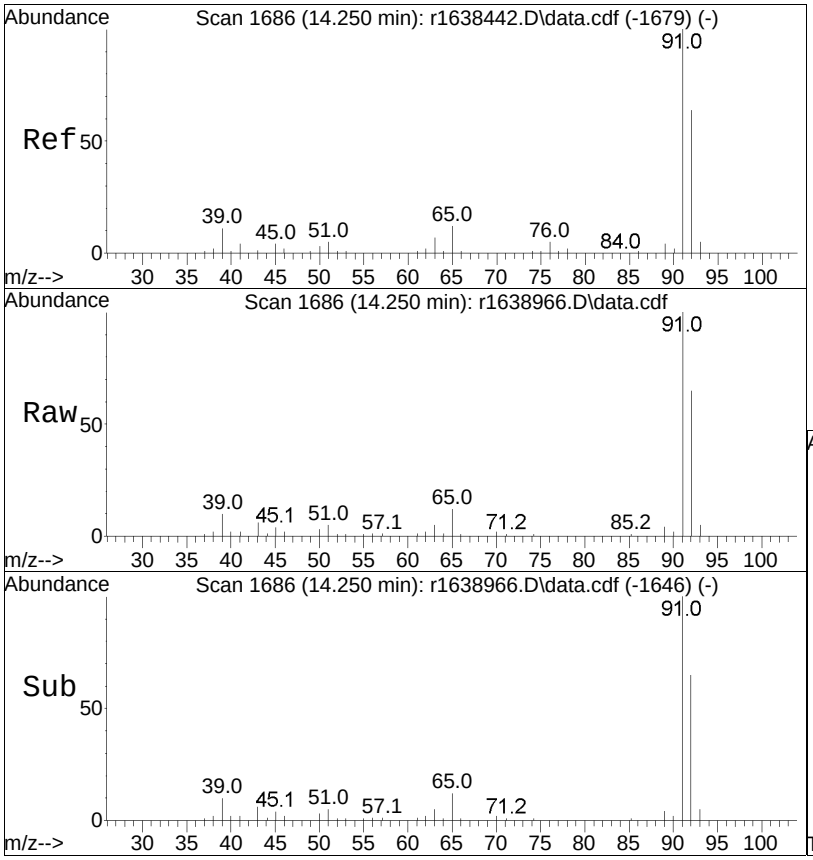


#64
4-methyl-2-pentanone
Concen: 0.10 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 43 Resp: 2828

Ion	Ratio	Lower	Upper
43	100		
58	40.8	28.6	43.0
100	17.5	9.9	14.9#

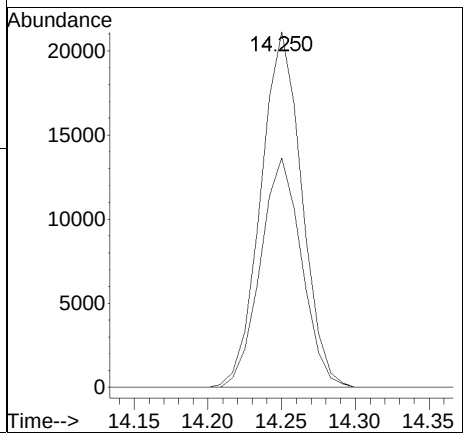


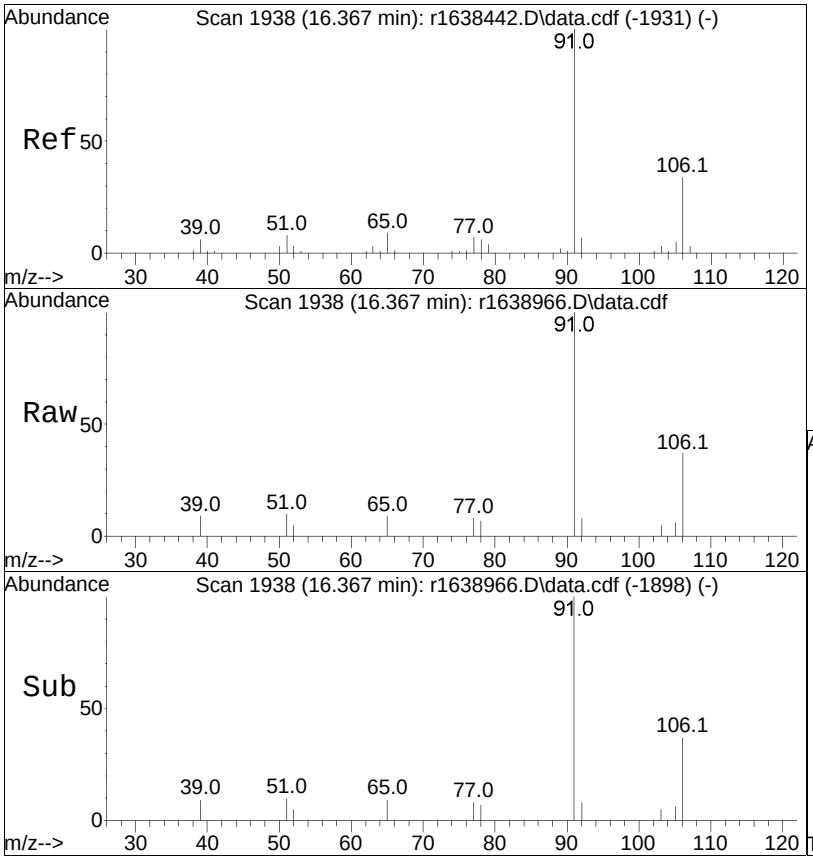


#68
toluene
Concen: 0.93 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 91 Resp: 40979

Ion	Ratio	Lower	Upper
91	100		
92	64.6	51.0	76.4

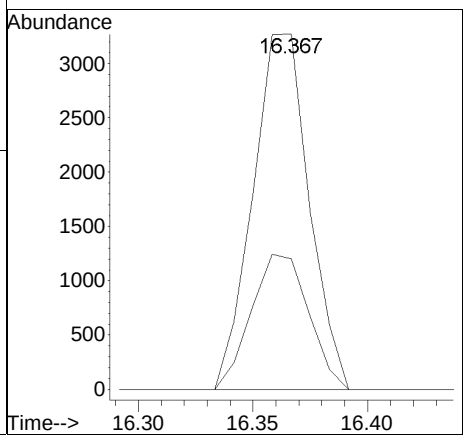


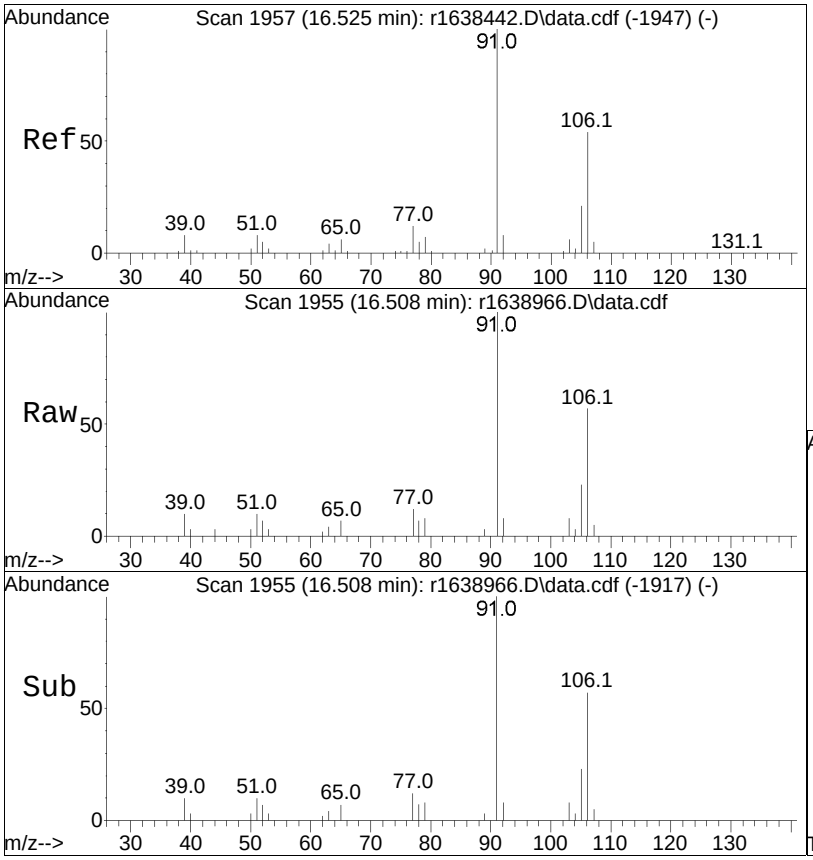


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 91 Resp: 5589

Ion	Ratio	Lower	Upper
91	100		
106	36.7	27.4	41.2

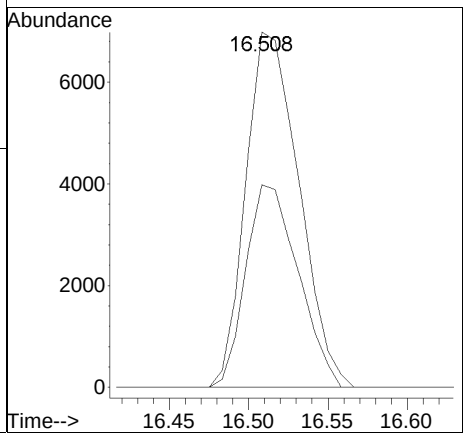


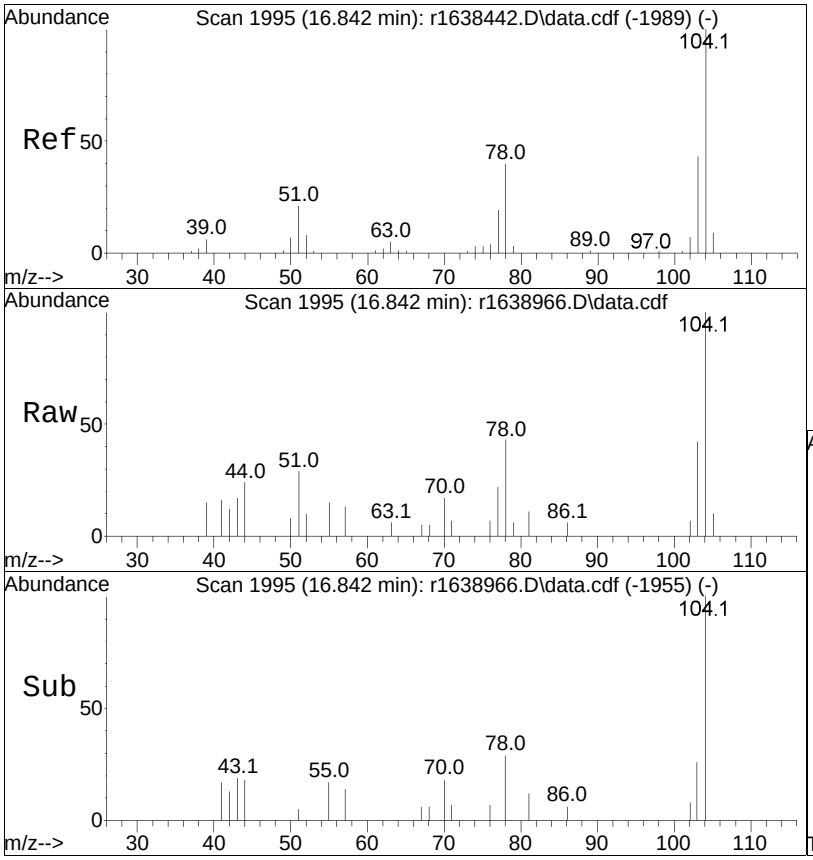


#83
m+p-xylene
Concen: 0.37 ppbV
RT: 16.508 min Scan# 1955
Delta R.T. -0.017 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 91 Resp: 16284

Ion	Ratio	Lower	Upper
91	100		
106	57.0	43.0	64.4

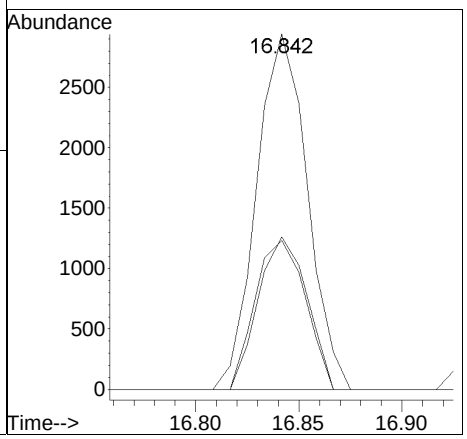


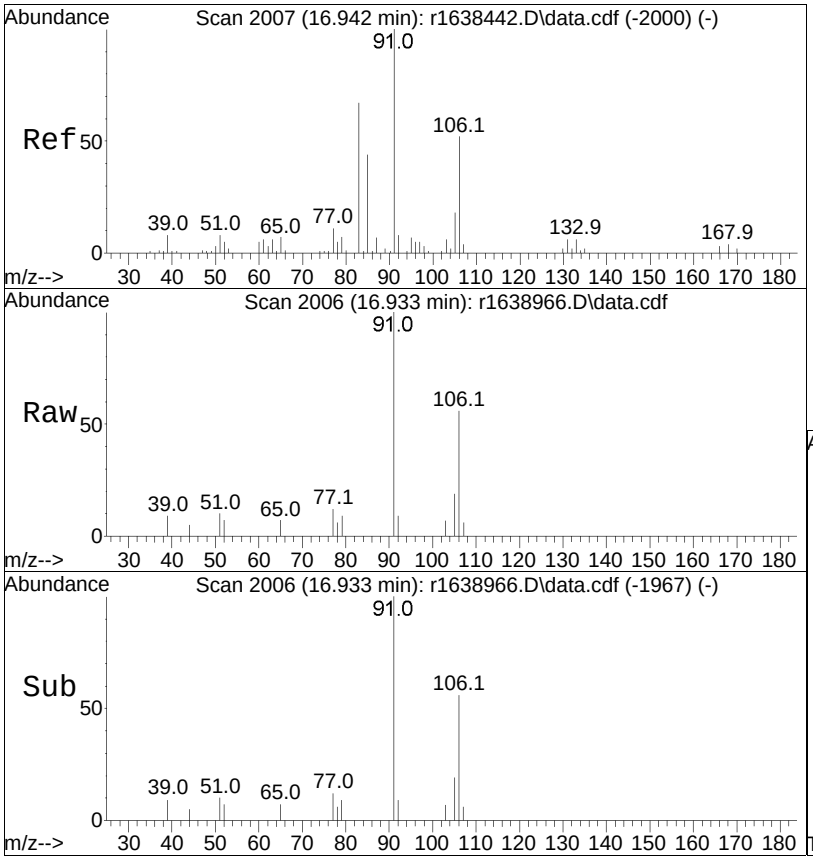


#85
styrene
Concen: 0.14 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:104 Resp: 5039

Ion	Ratio	Lower	Upper
104	100		
103	42.0	34.0	51.0
78	42.9	31.7	47.5

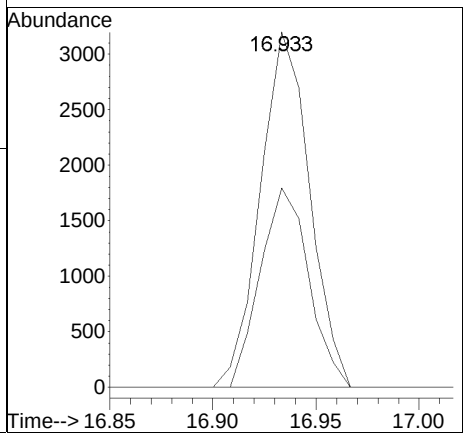


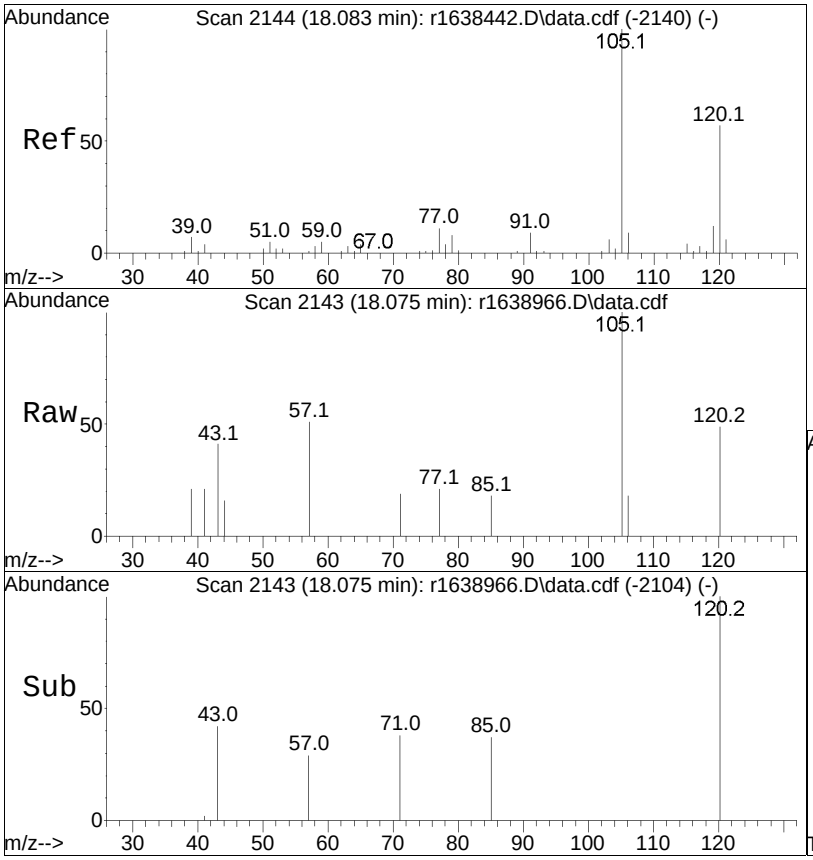


#87
o-xylene
Concen: 0.12 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion: 91 Resp: 5326

Ion	Ratio	Lower	Upper
91	100		
106	56.1	41.7	62.5

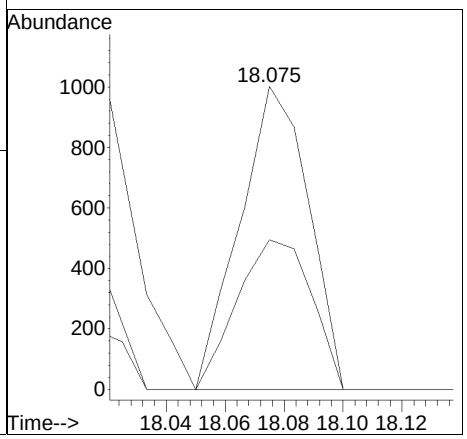


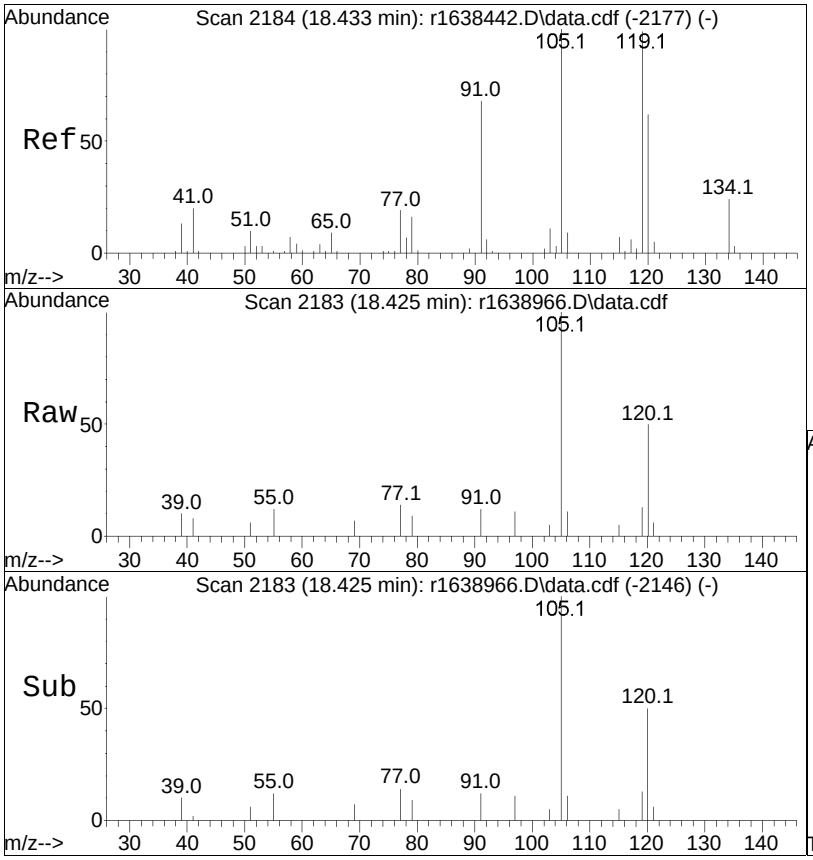


#97
1,3,5-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.075 min Scan# 2143
Delta R.T. -0.008 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:105 Resp: 1626

Ion	Ratio	Lower	Upper
105	100		
120	49.4	45.4	68.2
91	0.0	7.5	11.3#

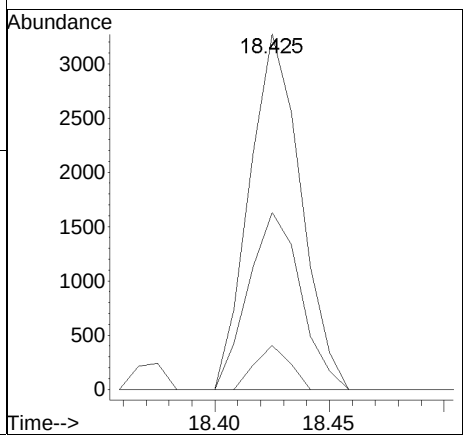




#99
1,2,4-trimethylbenzene
Concen: 0.10 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638966.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:105 Resp: 5108

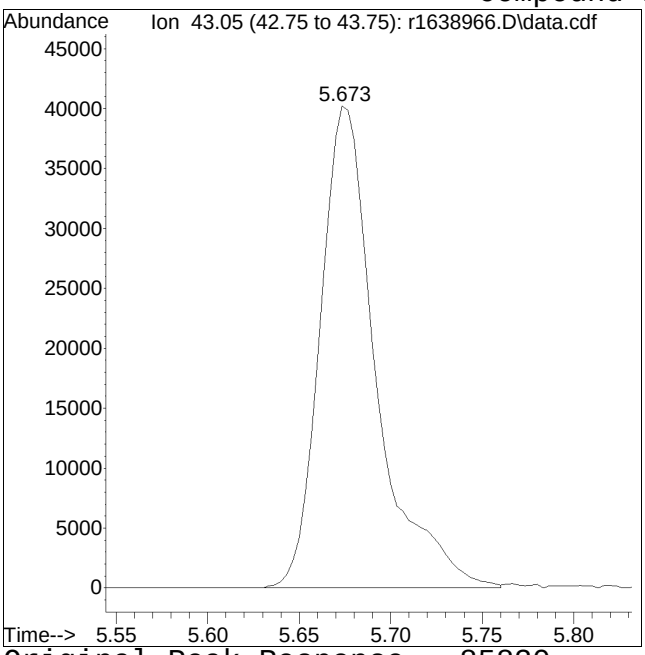
Ion	Ratio	Lower	Upper
105	100		
120	49.8	49.9	74.9#
91	12.4	54.0	81.0#



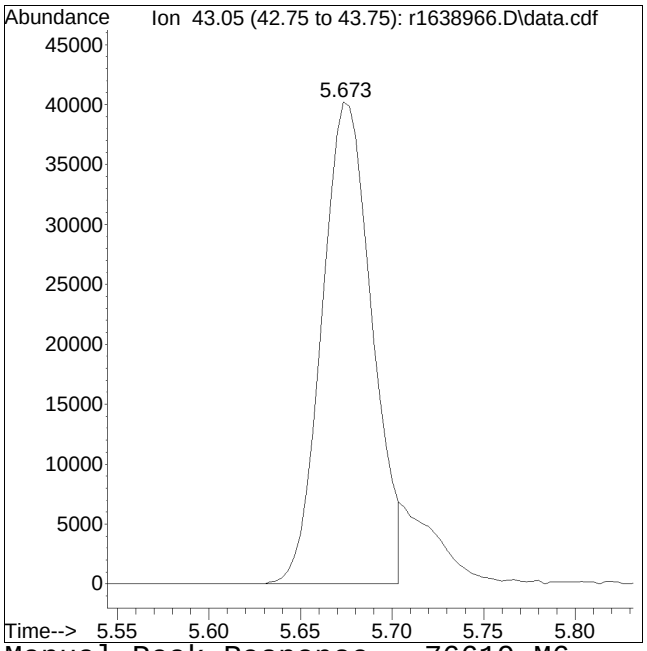
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638966.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : L2347540-06,3,250,250 Quant Date : 8/23/2023 6:33 am

Compound #19: acetone



Original Peak Response = 85830



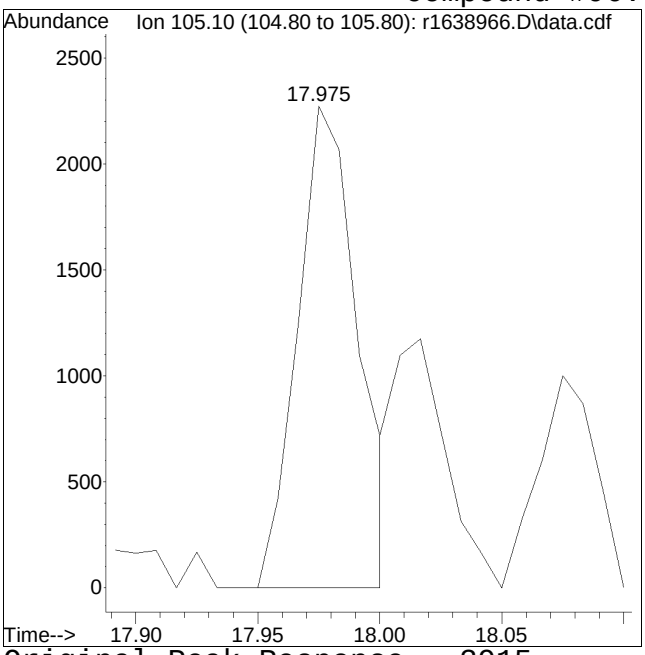
Manual Peak Response = 76610 M6

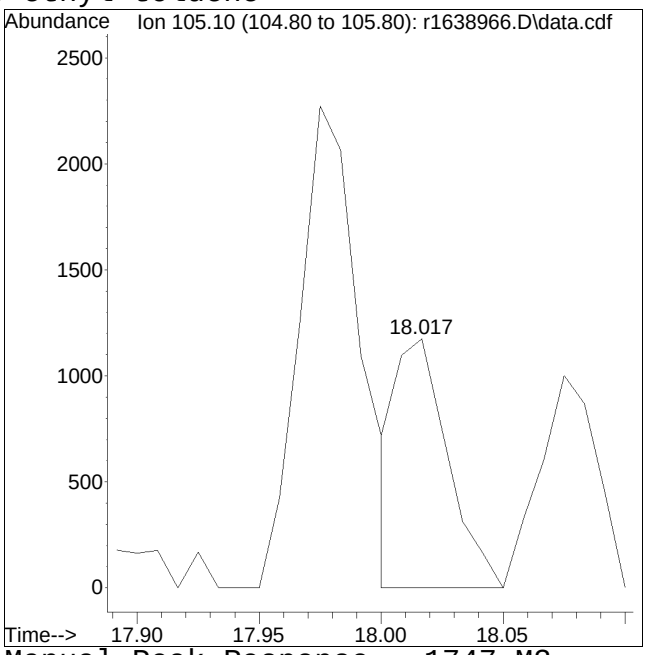
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638966.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : L2347540-06,3,250,250 Quant Date : 8/23/2023 6:33 am

Compound #96: 4-ethyl toluene





Original Peak Response = 3915 Manual Peak Response = 1747 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638967.D
Acq On : 22 Aug 2023 10:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-07,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	210158	10.000	ppbV	0.00
Standard Area = 214255			Recovery =	98.09%		
43) 1,4-difluorobenzene	11.307	114	627456	10.000	ppbV	0.00
Standard Area = 667571			Recovery =	93.99%		
67) chlorobenzene-D5	15.983	54	79997	10.000	ppbV	0.00
Standard Area = 82563			Recovery =	96.89%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7178	0.461	ppbV	99
6) chloromethane	4.192	50	4048	0.461	ppbV	97
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	279431	50.414	ppbV	86
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.673	43	80890	7.233	ppbV #	92
21) trichlorofluoromethane	5.873	101	2319	0.211	ppbV	98
22) isopropyl alcohol	5.947	45	38229	2.364	ppbV	99
27) tertiary butyl alcohol	6.612	59	1319	0.084	ppbV #	76
28) methylene chloride	6.702	49	3633	0.303	ppbV	100
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	7.002	101	1129	0.057	ppbV	94
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.992		0	N.D.		
36) 2-butanone	8.408	43	10102	0.381	ppbV #	90
38) Ethyl Acetate	9.175	61	1372	0.359	ppbV #	1
39) chloroform	9.250	83	698	0.041	ppbV #	79
40) Tetrahydrofuran	9.700	42	3247	0.193	ppbV	94
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	3085	0.187	ppbV	72
50) benzene	10.893	78	6449	0.190	ppbV #	92
53) cyclohexane	11.207	56	1099	0.063	ppbV	95
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638967.D
Acq On : 22 Aug 2023 10:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-07,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

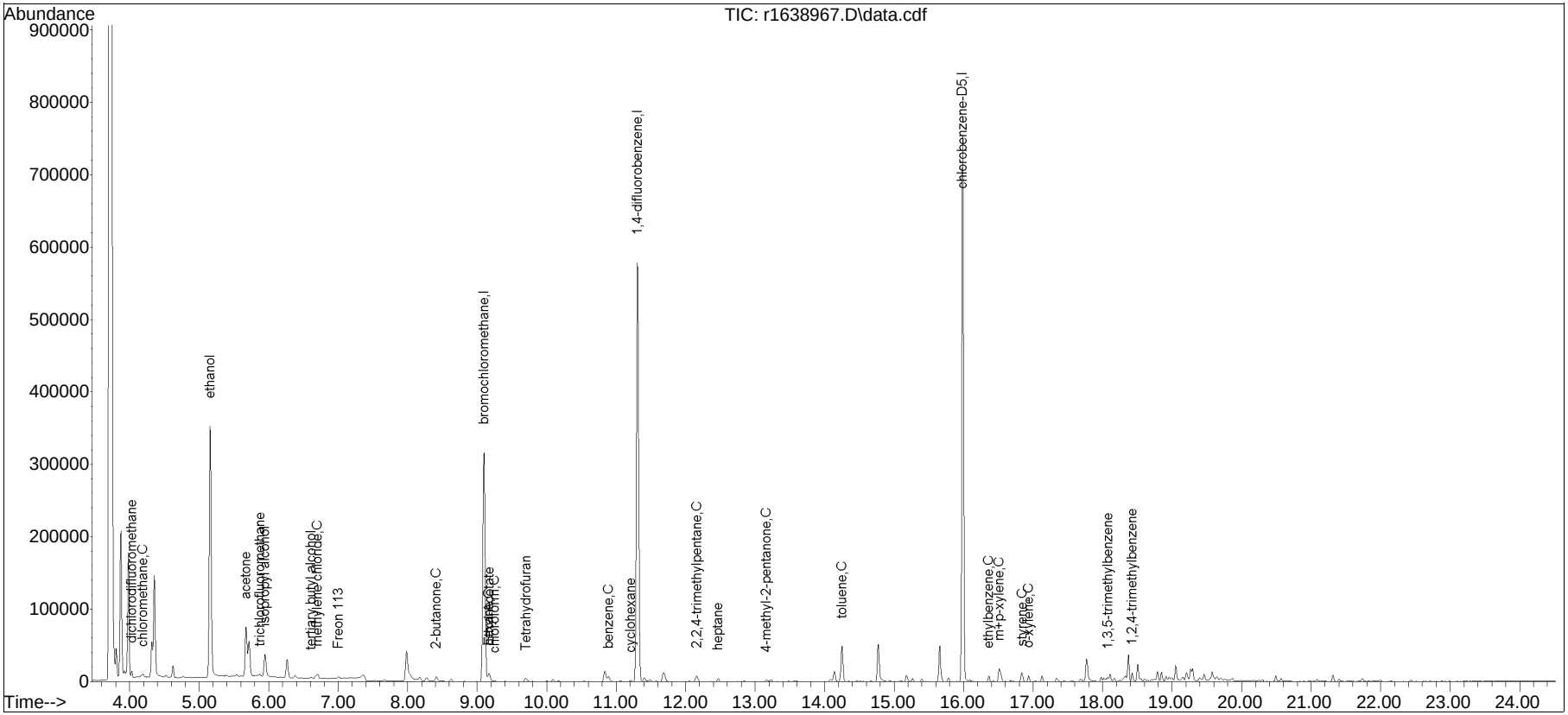
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.		
58)	1,4-dioxane	0.000		0	N.D.		
60)	2,2,4-trimethylpentane	12.160	57	7138	0.132	ppbV	96
62)	heptane	12.467	43	2346	0.092	ppbV #	83
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.158	43	2309	0.078	ppbV #	89
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.250	91	38720	0.860	ppbV	97
72)	2-hexanone	14.517		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	0.000		0	N.D.		
81)	ethylbenzene	16.358	91	5991	0.106	ppbV	95
83)	m+p-xylene	16.508	91	15150	0.341	ppbV	94
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.842	104	4106	0.111	ppbV	97
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87)	o-xylene	16.933	91	5055	0.114	ppbV	99
96)	4-ethyl toluene	18.017		0	N.D.		
97)	1,3,5-trimethylbenzene	18.075	105	1671	0.032	ppbV #	94
99)	1,2,4-trimethylbenzene	18.425	105	5472	0.107	ppbV #	56
101)	Benzyl Chloride	18.425		0	N.D.		
102)	1,3-dichlorobenzene	18.617		0	N.D.		
103)	1,4-dichlorobenzene	18.617		0	N.D.		
107)	1,2-dichlorobenzene	0.000		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

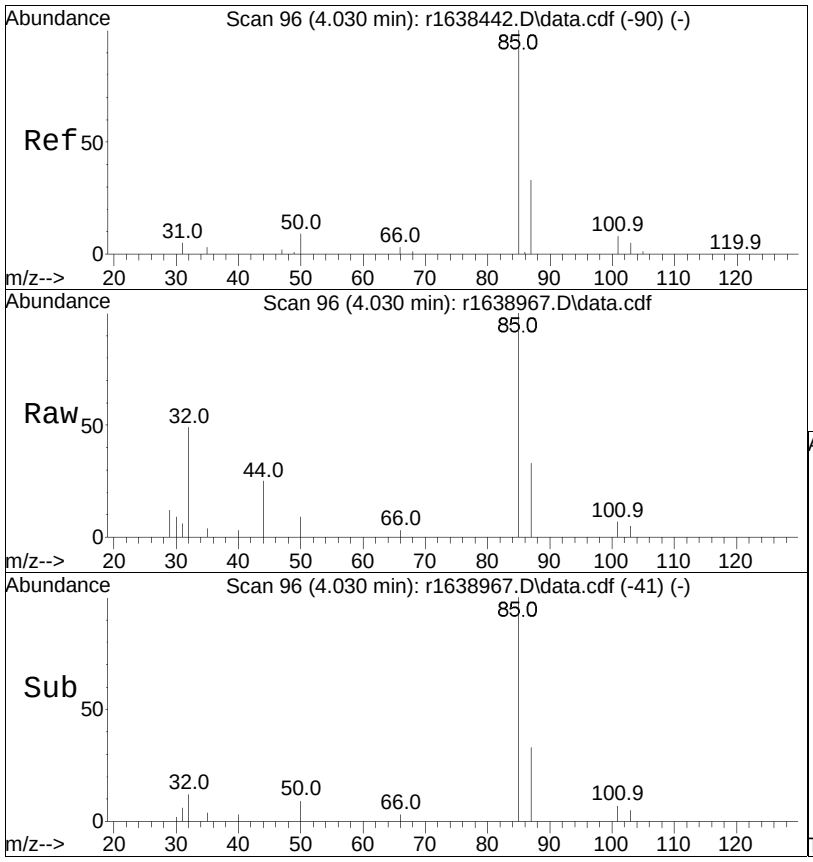
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638967.D
Acq On : 22 Aug 2023 10:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-07,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

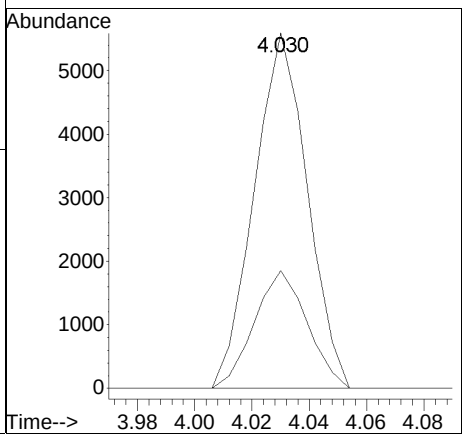


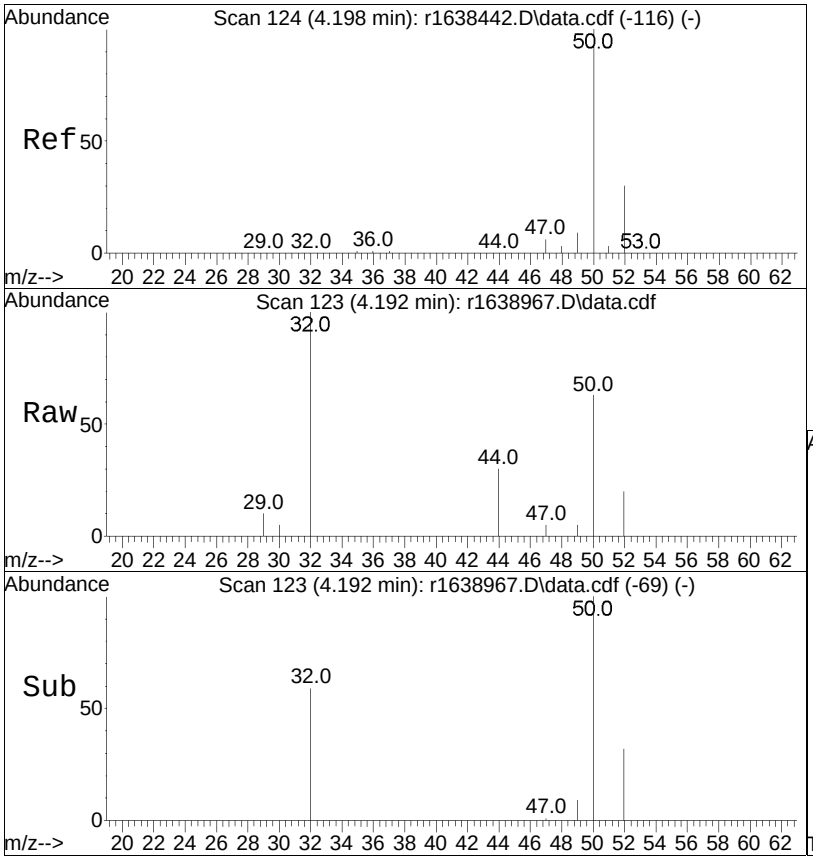


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 85 Resp: 7178

Ion	Ratio	Lower	Upper
85	100		
87	33.1	26.2	39.2

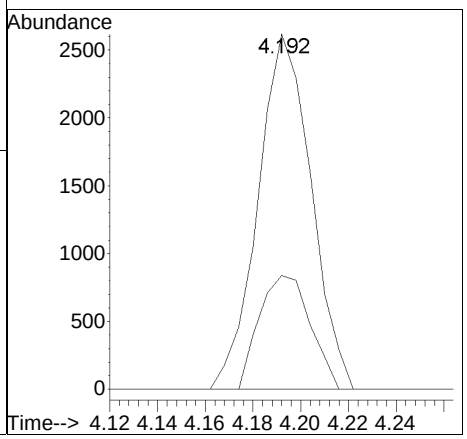


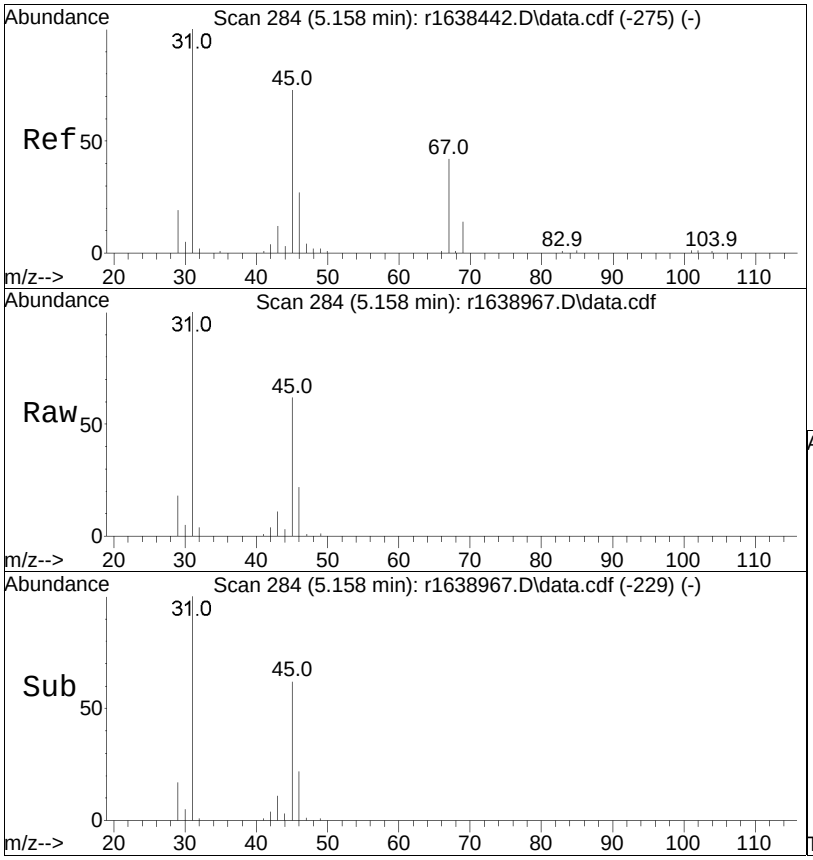


#6
chloromethane
Concen: 0.46 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 50 Resp: 4048

Ion	Ratio	Lower	Upper
50	100		
52	32.0	24.3	36.5

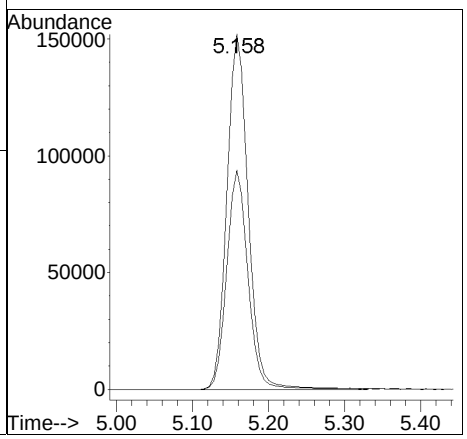


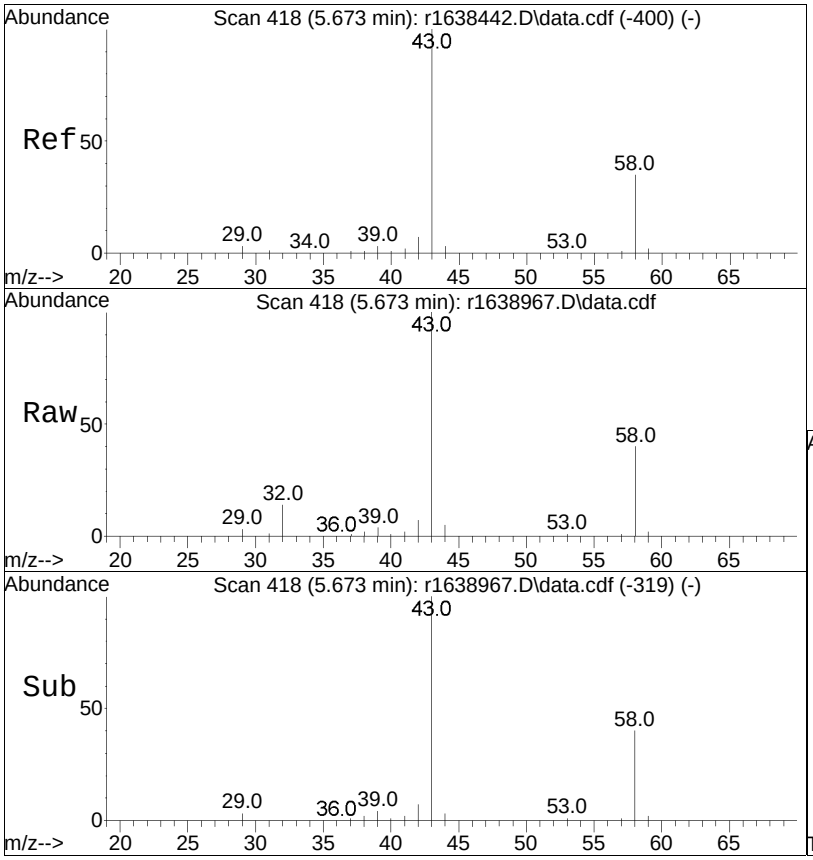


#15
ethanol
Concen: 50.41 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 31 Resp: 279431

Ion	Ratio	Lower	Upper
31	100		
45	61.7	58.6	87.8

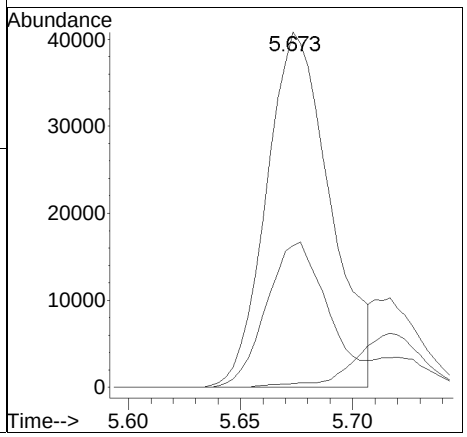


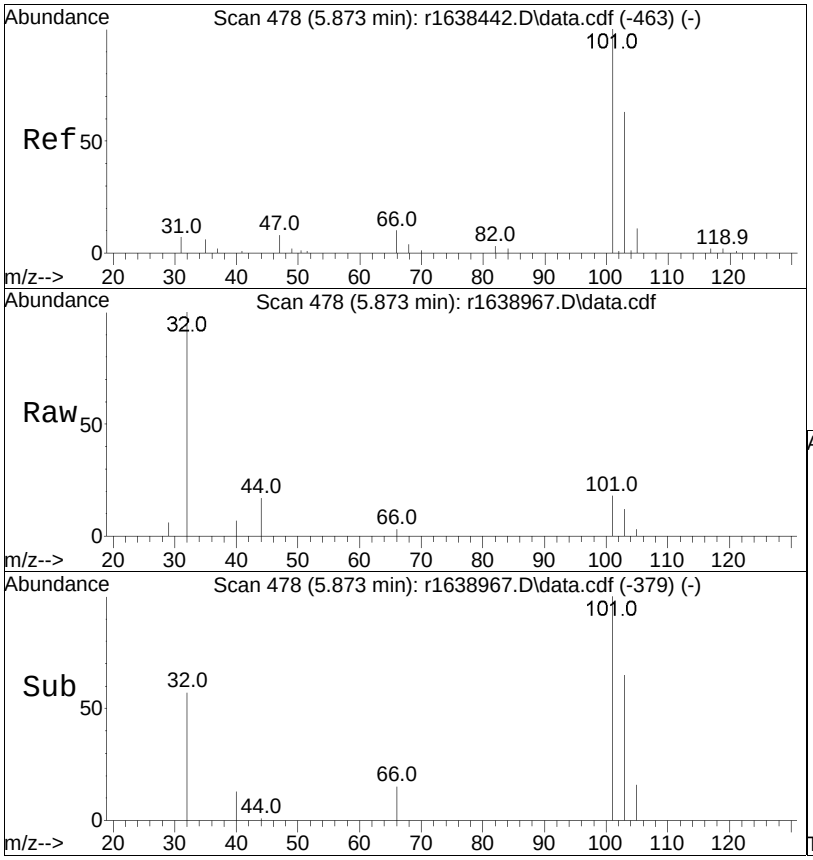


#19
acetone
Concen: 7.23 ppbV
RT: 5.673 min Scan# 418
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 43 Resp: 80890

Ion	Ratio	Lower	Upper
43	100		
58	39.9	28.3	42.5
57	1.1	0.6	1.0#

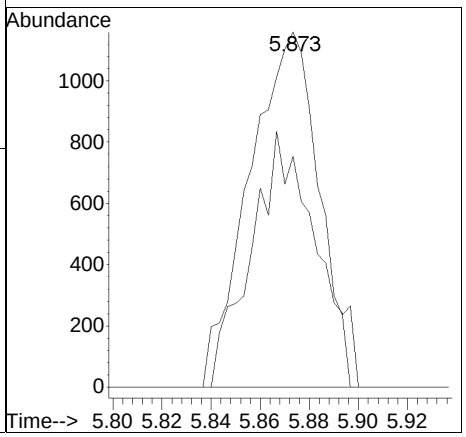


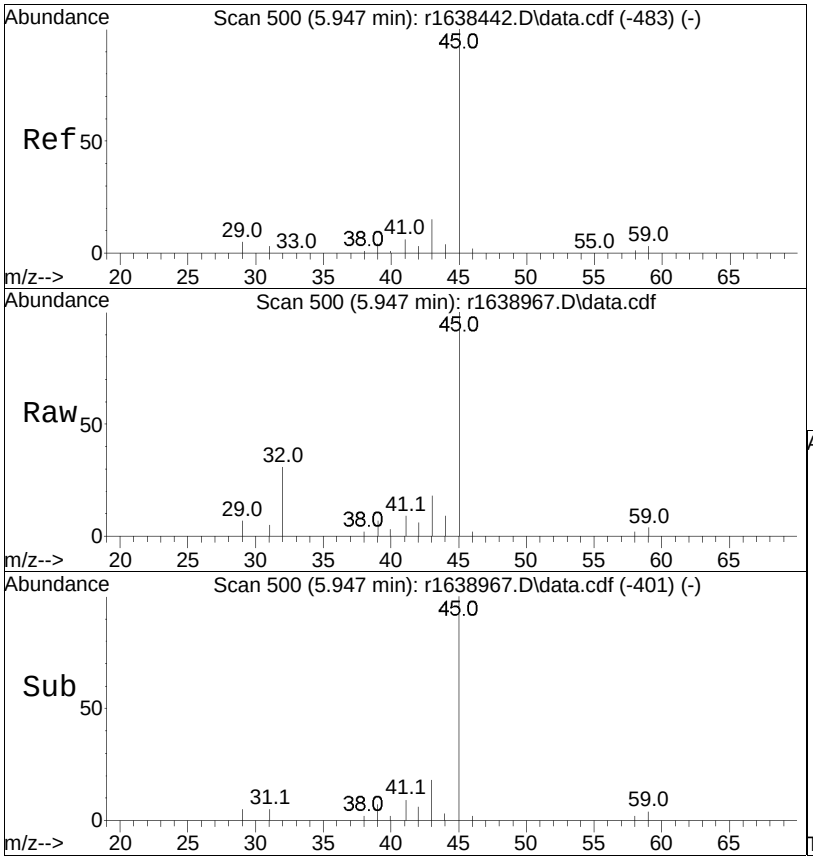


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:101 Resp: 2319

Ion	Ratio	Lower	Upper
101	100		
103	65.0	50.6	76.0

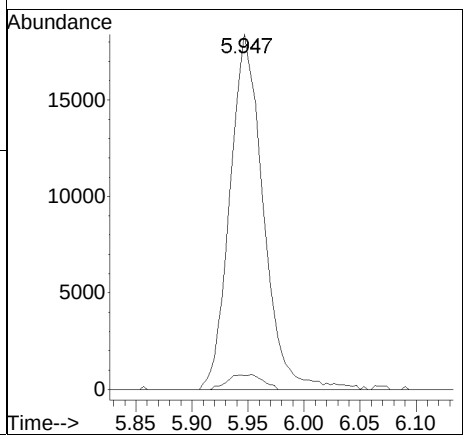


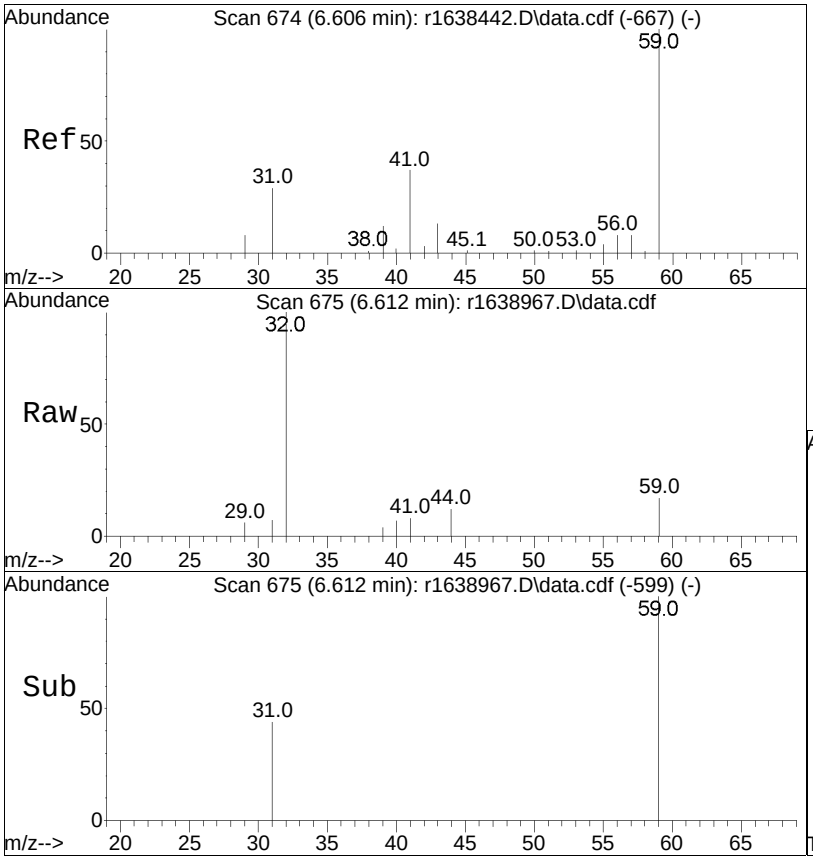


#22
isopropyl alcohol
Concen: 2.36 ppbV
RT: 5.947 min Scan# 500
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 45 Resp: 38229

Ion	Ratio	Lower	Upper
45	100		
59	3.9	2.8	4.2

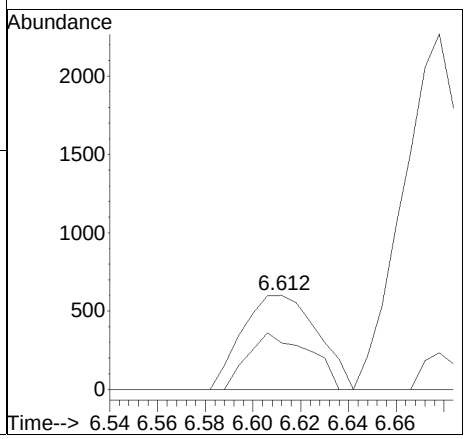


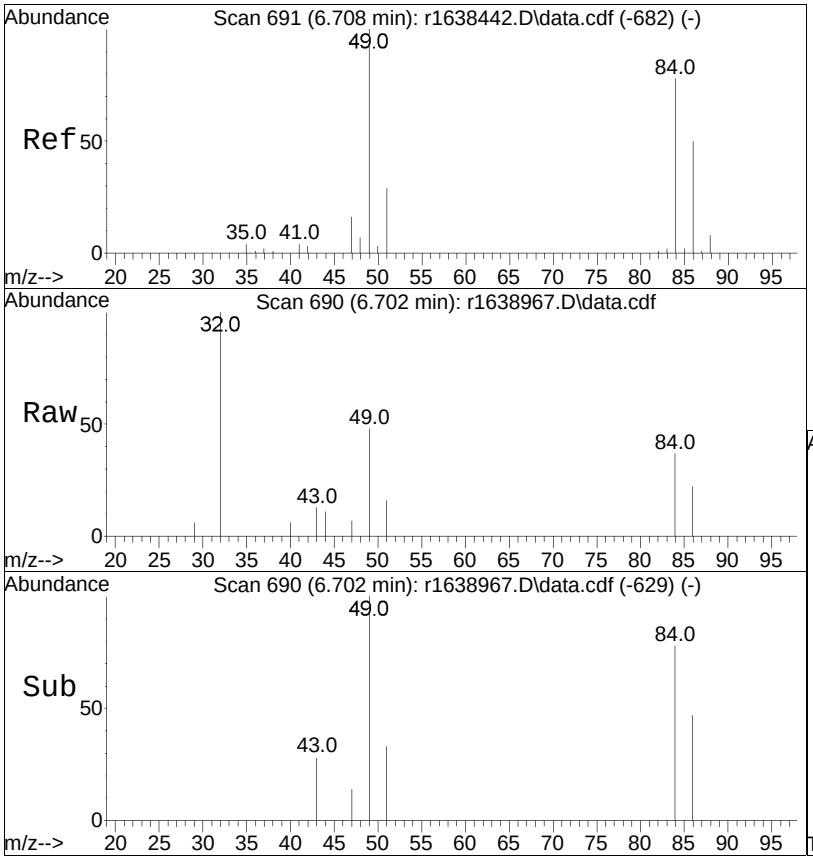


#27
tertiary butyl alcohol
Concen: 0.08 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 59 Resp: 1319

Ion	Ratio	Lower	Upper
59	100		
41	49.5	29.3	43.9#
43	0.0	10.1	15.1#

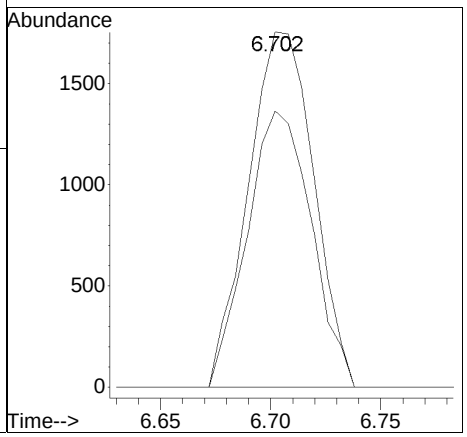


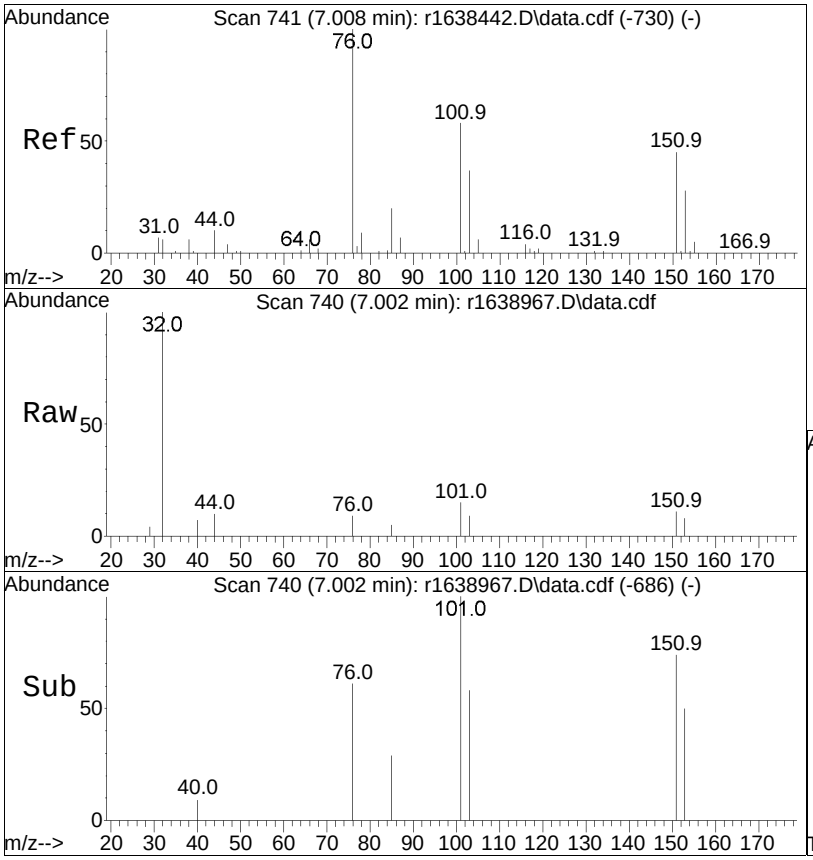


#28
methylene chloride
Concen: 0.30 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 49 Resp: 3633

Ion	Ratio	Lower	Upper
49	100		
84	77.8	62.4	93.6

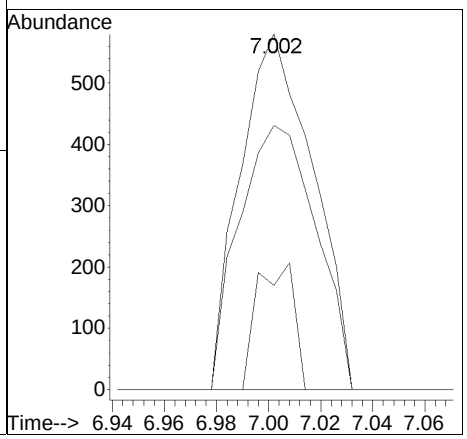


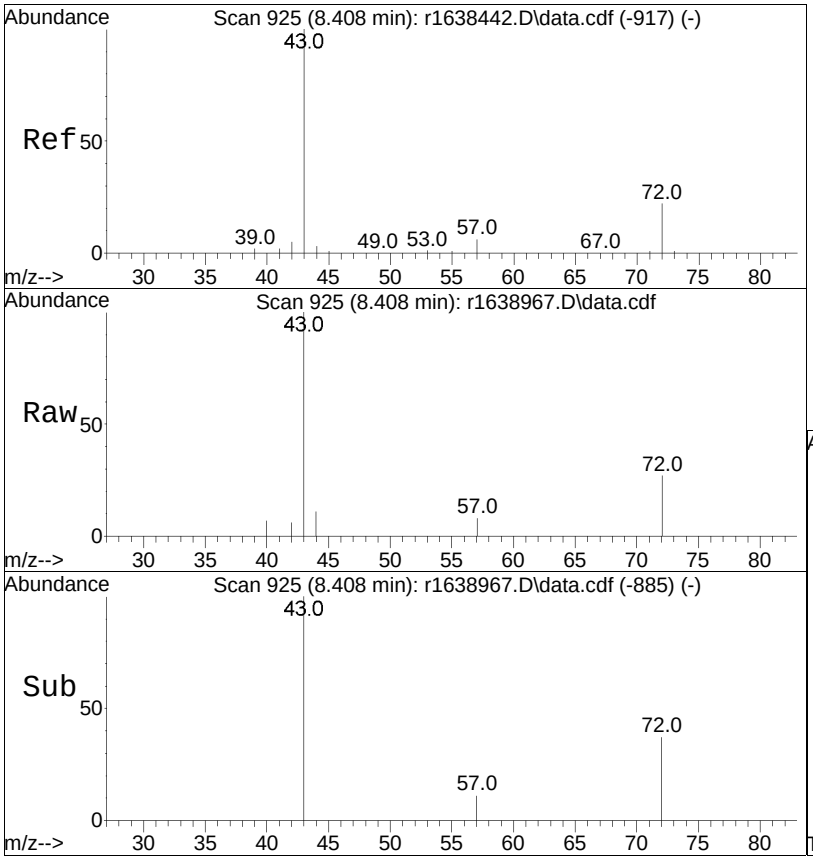


#31
Freon 113
Concen: 0.06 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:101 Resp: 1129

Ion	Ratio	Lower	Upper
101	100		
85	29.3	27.8	41.6
151	74.3	62.2	93.4

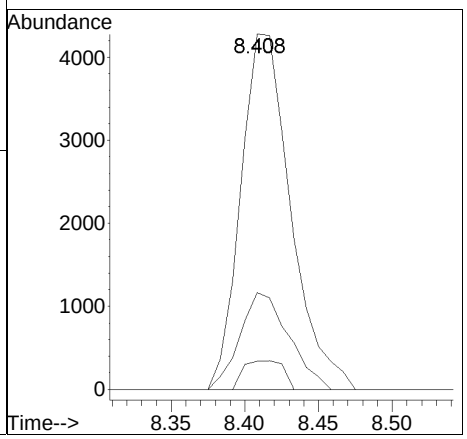


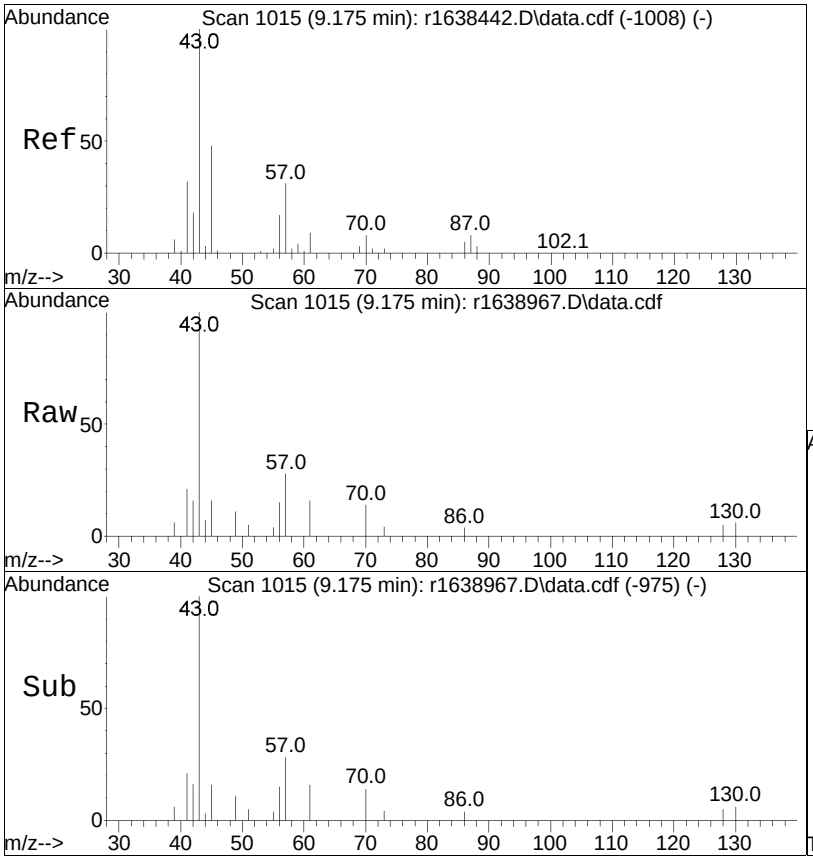


#36
2-butanone
Concen: 0.38 ppbV
RT: 8.408 min Scan# 925
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 43 Resp: 10102

Ion	Ratio	Lower	Upper
43	100		
72	27.2	17.4	26.0#
57	7.9	4.8	7.2#

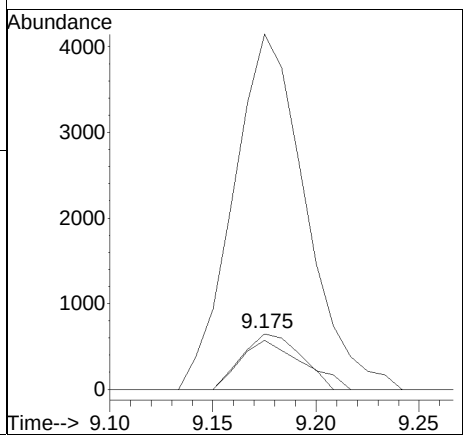


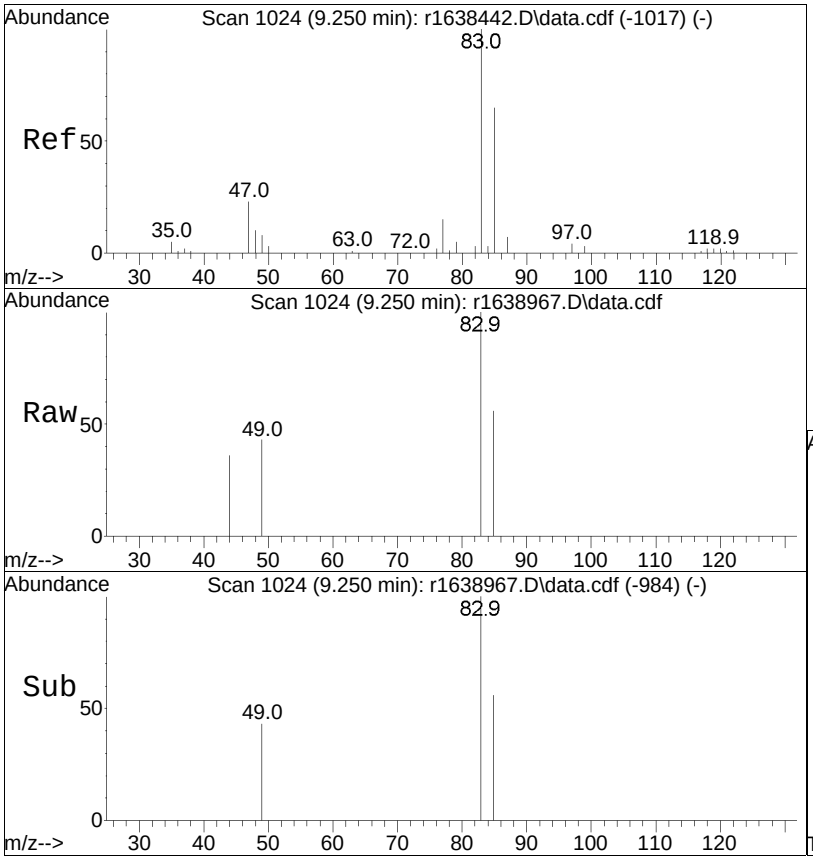


#38
Ethyl Acetate
Concen: 0.36 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 61 Resp: 1372

Ion	Ratio	Lower	Upper
61	100		
70	88.4	74.6	112.0
43	638.8	942.0	1413.0#

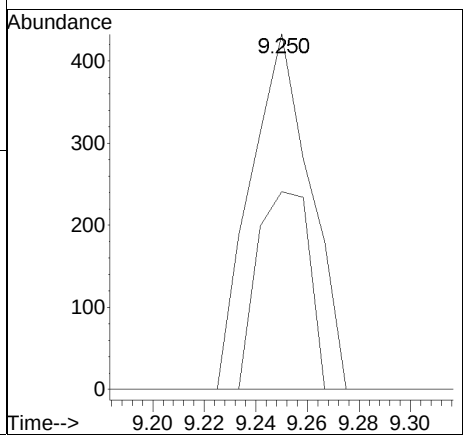


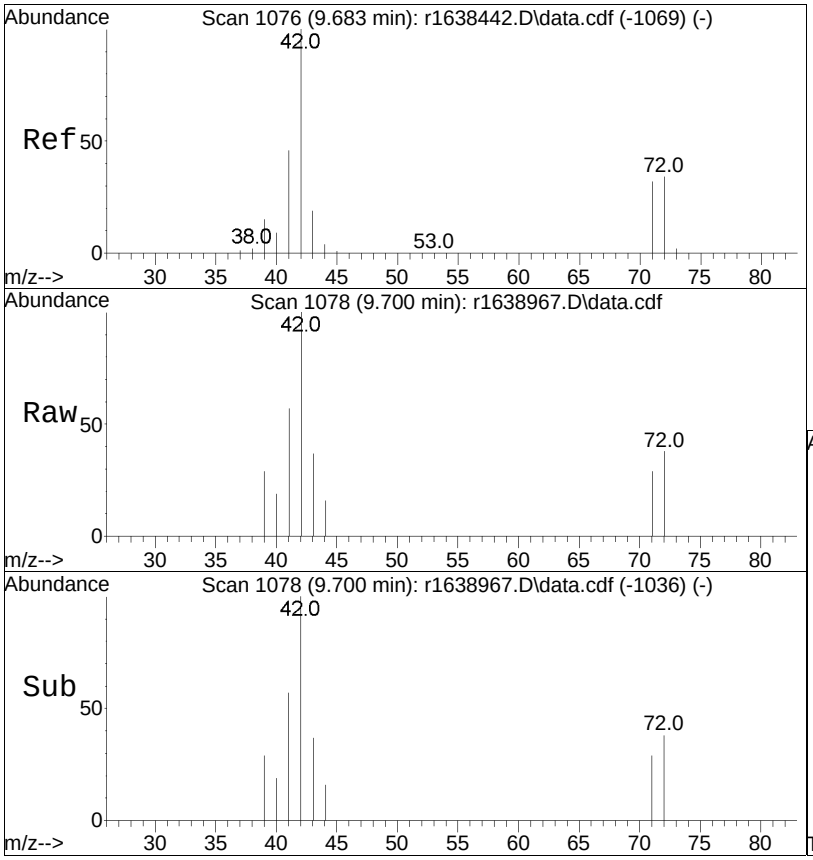


#39
chloroform
Concen: 0.04 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 83 Resp: 698

Ion	Ratio	Lower	Upper
83	100		
85	55.7	51.9	77.9
47	0.0	18.0	27.0#

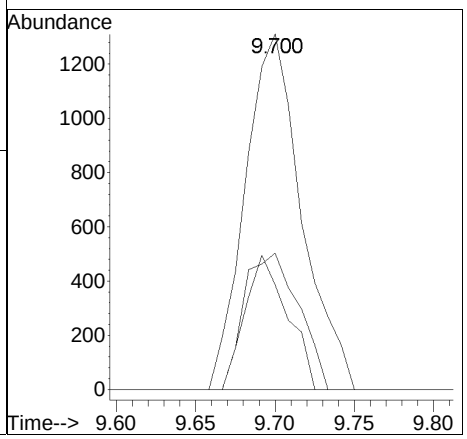


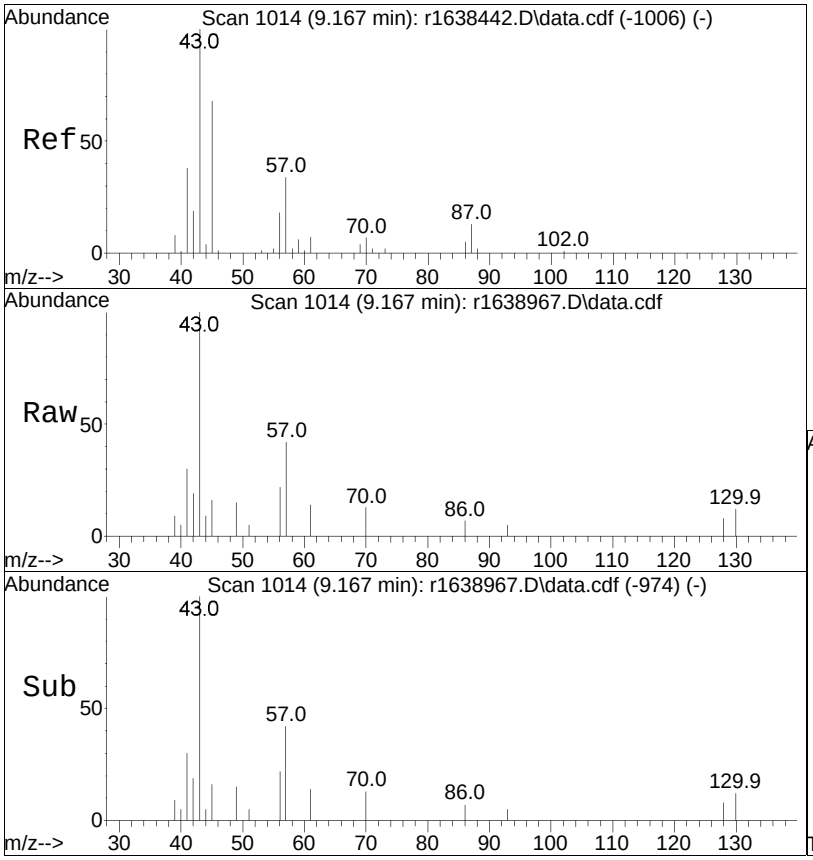


#40
Tetrahydrofuran
Concen: 0.19 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 42 Resp: 3247

Ion	Ratio	Lower	Upper
42	100		
71	29.4	25.6	38.4
72	38.4	27.4	41.2

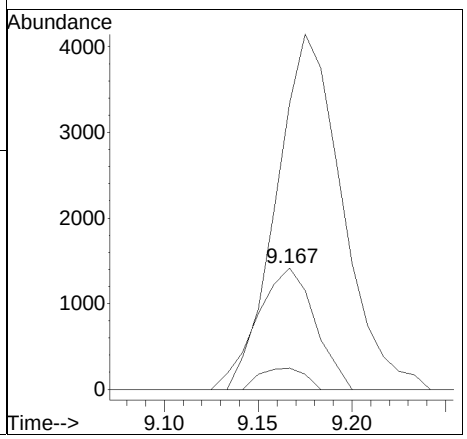


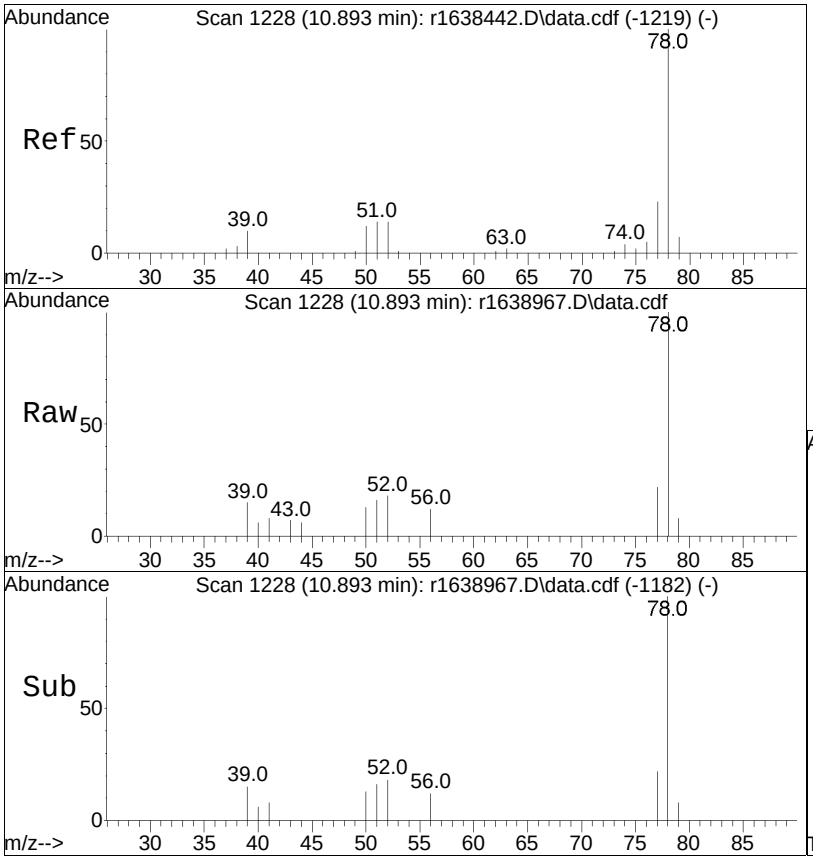


#44
hexane
Concen: 0.19 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 57 Resp: 3085

Ion	Ratio	Lower	Upper
57	100		
43	235.4	233.1	349.7
86	17.6	12.6	18.8

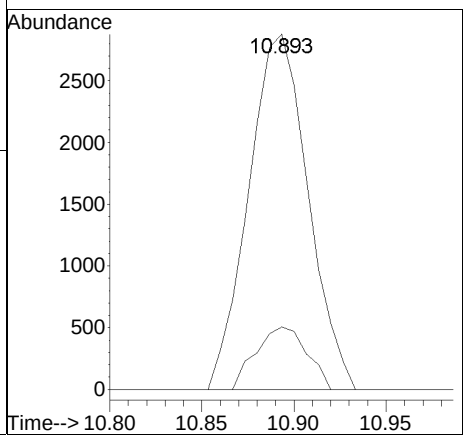


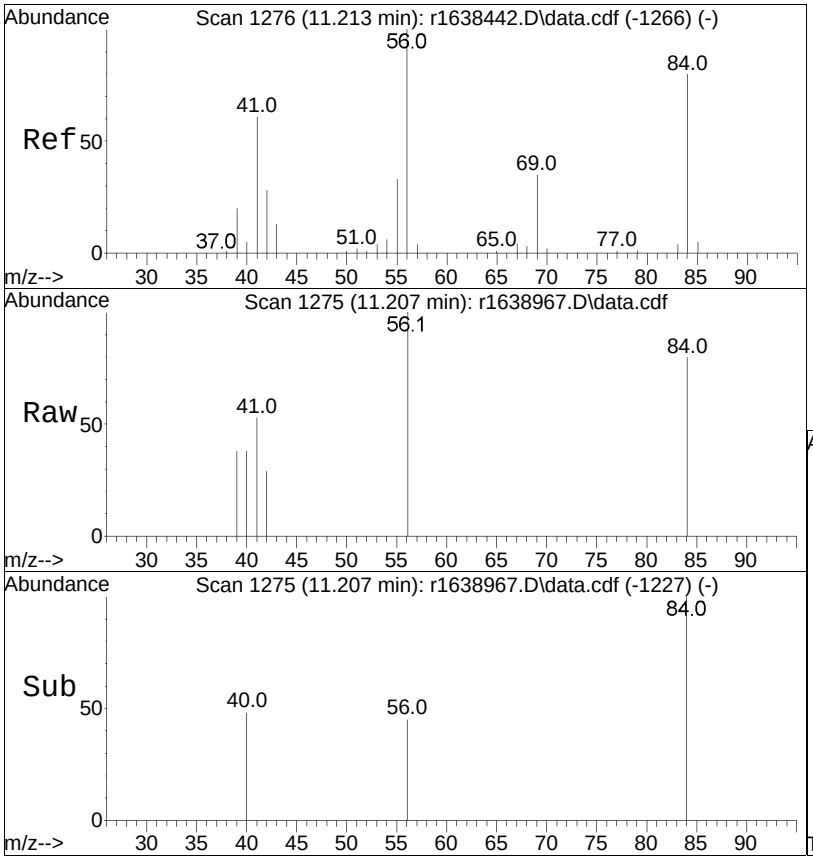


#50
benzene
Concen: 0.19 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 78 Resp: 6449

Ion	Ratio	Lower	Upper
78	100		
52	17.6	11.6	17.4#

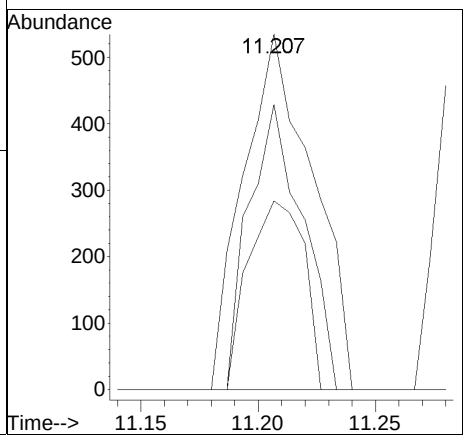


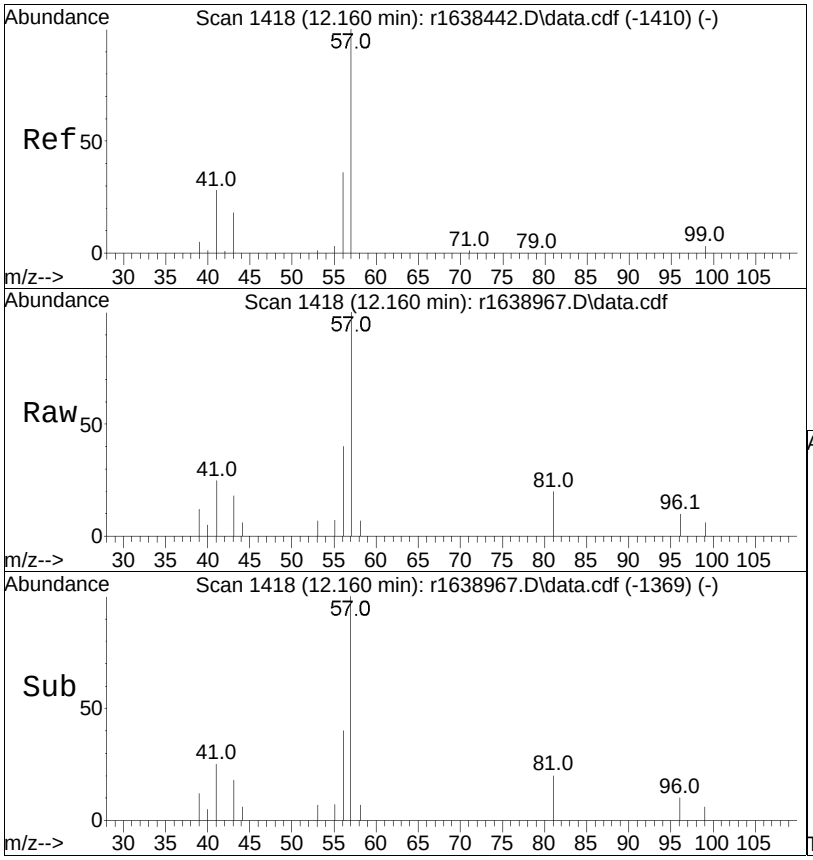


#53
cyclohexane
Concen: 0.06 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 56 Resp: 1099

Ion	Ratio	Lower	Upper
56	100		
84	80.2	64.2	96.4
41	53.1	48.8	73.2

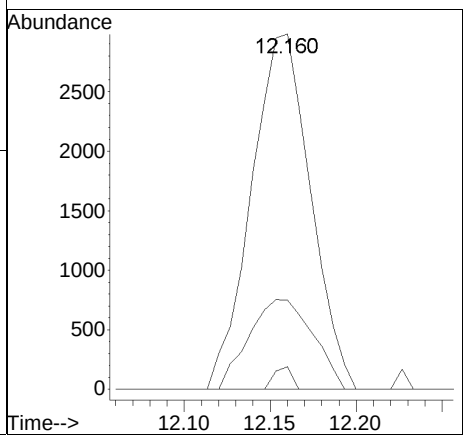


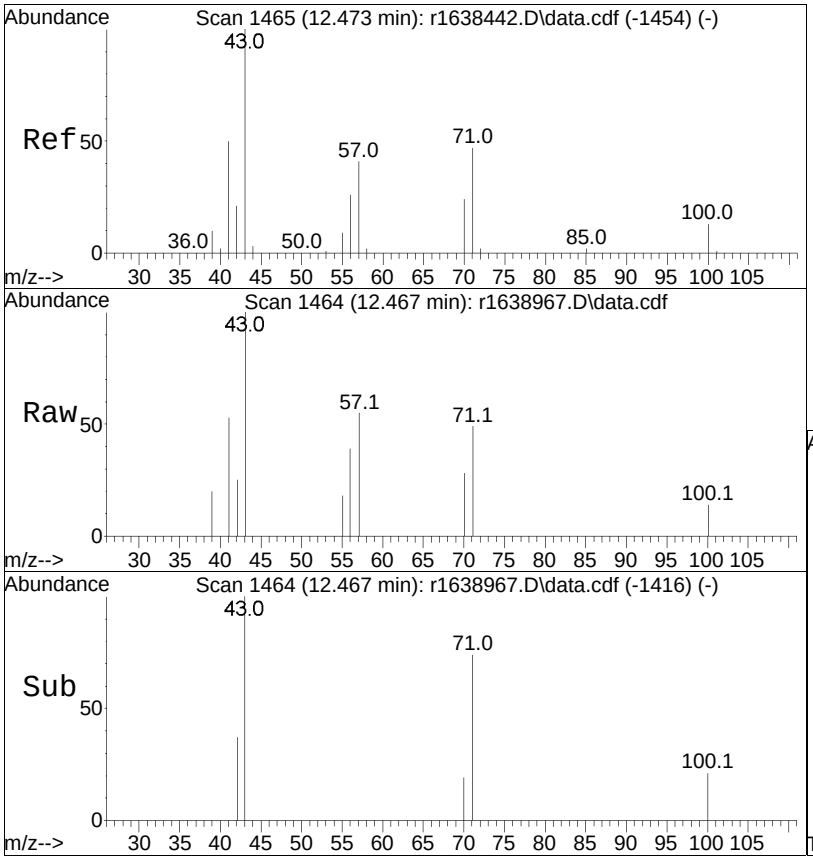


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 57 Resp: 7138

Ion	Ratio	Lower	Upper
57	100		
99	6.4	4.4	6.6
41	25.1	21.9	32.9

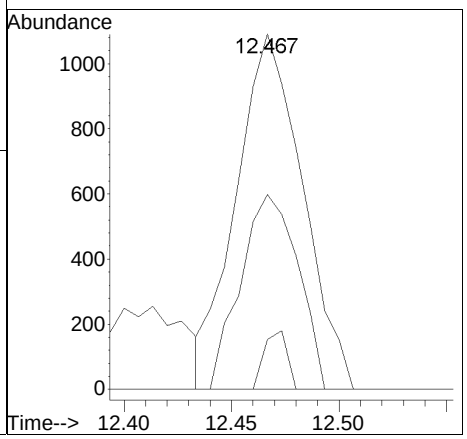


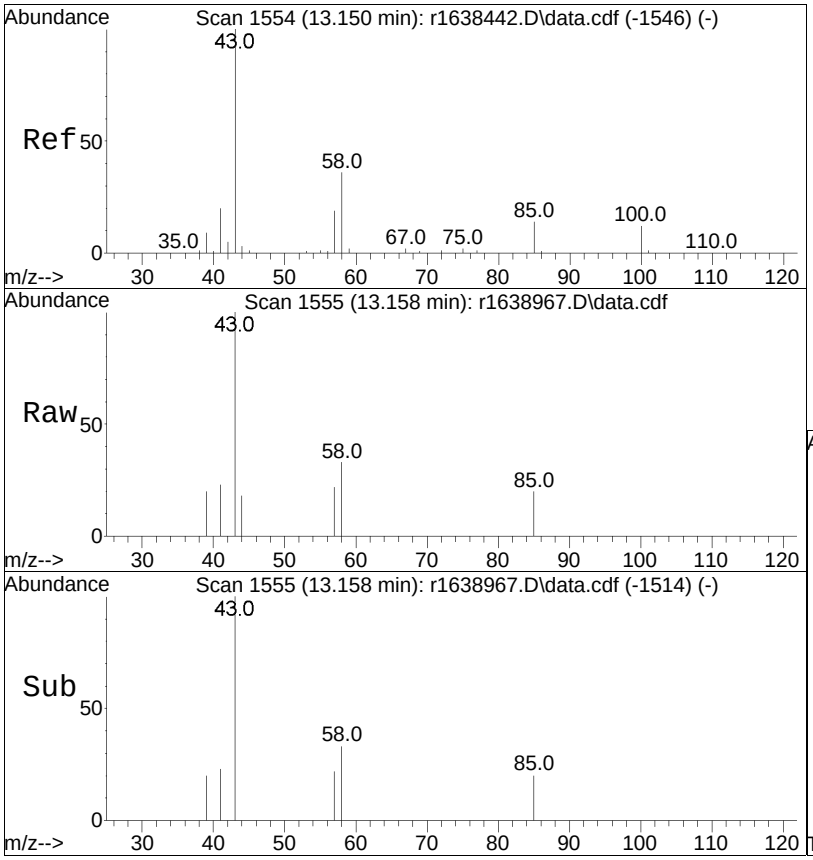


#62
heptane
Concen: 0.09 ppbV
RT: 12.467 min Scan# 1464
Delta R.T. -0.007 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 43 Resp: 2346

Ion	Ratio	Lower	Upper
43	100		
57	54.8	32.8	49.2#
100	14.0	10.9	16.3

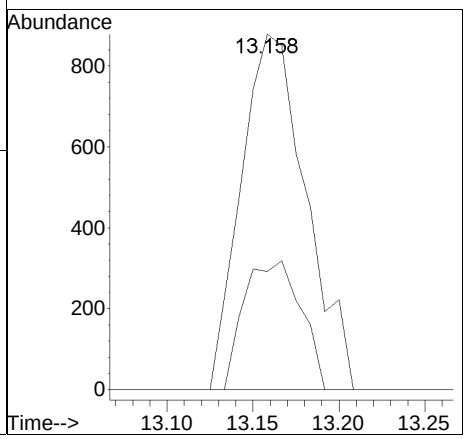


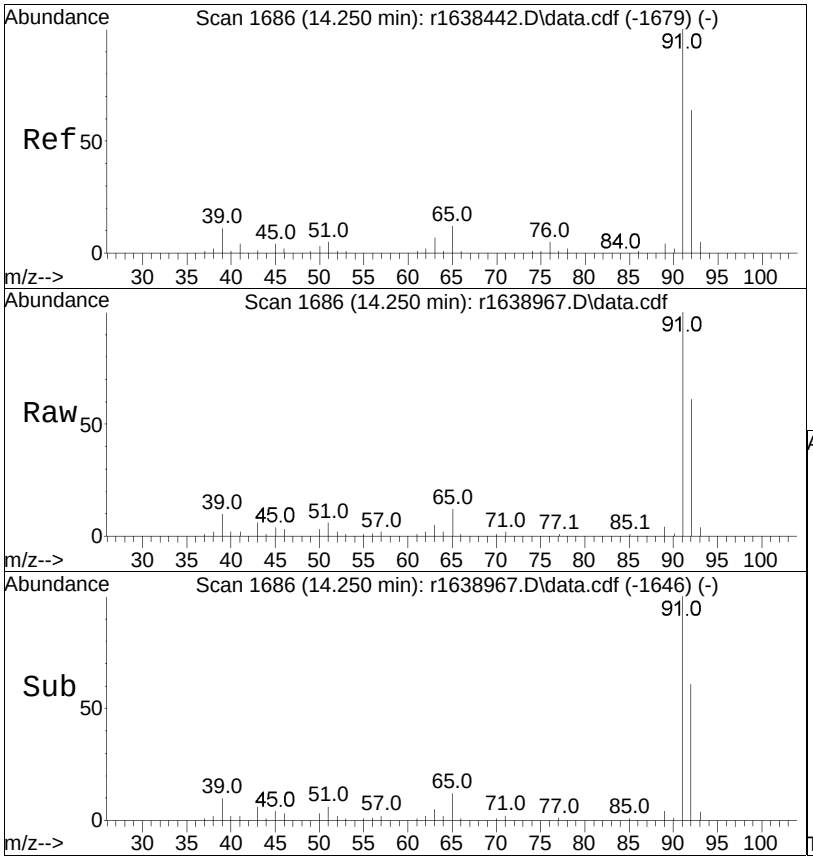


#64
4-methyl-2-pentanone
Concen: 0.08 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 43 Resp: 2309

Ion	Ratio	Lower	Upper
43	100		
58	33.2	28.6	43.0
100	0.0	9.9	14.9#

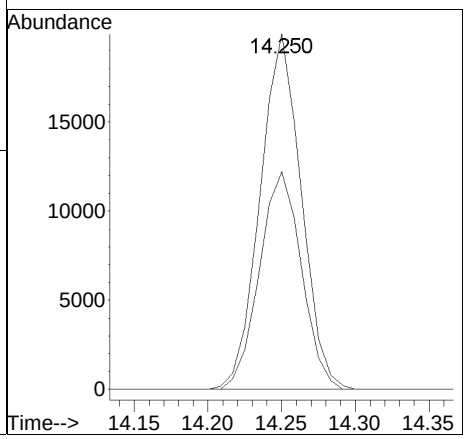


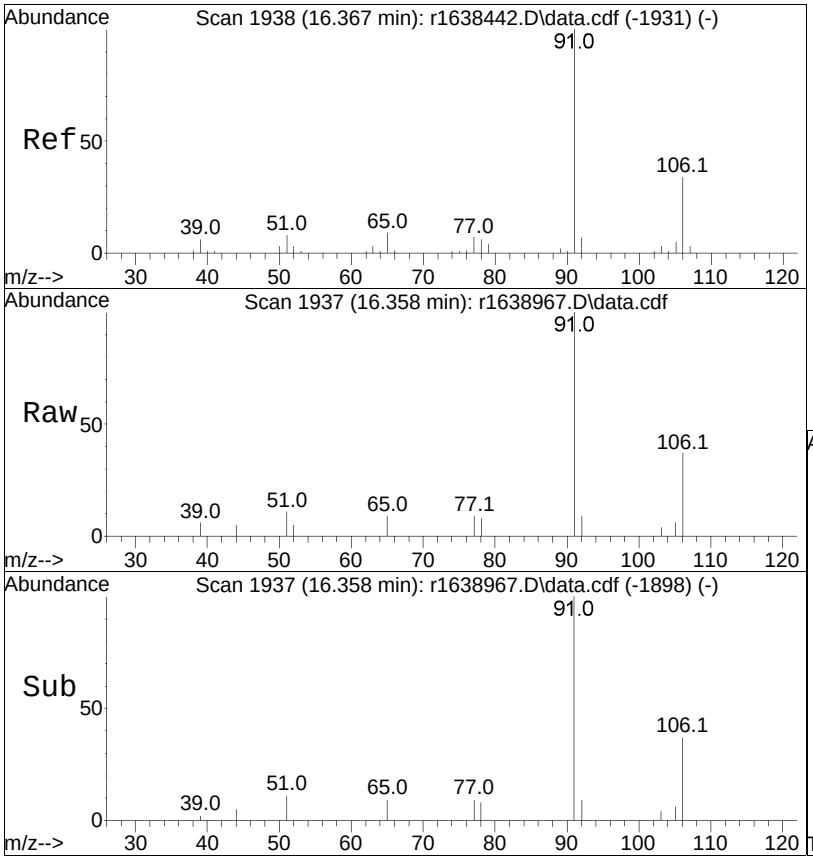


#68
toluene
Concen: 0.86 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 91 Resp: 38720

Ion	Ratio	Lower	Upper
91	100		
92	61.2	51.0	76.4

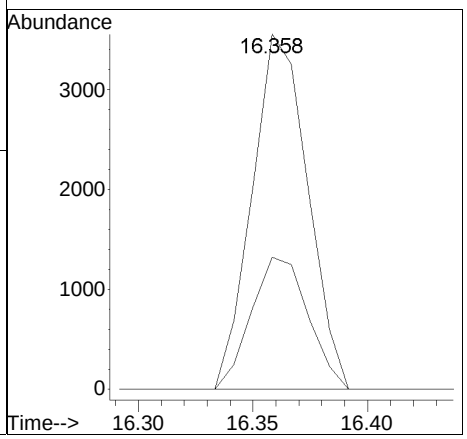


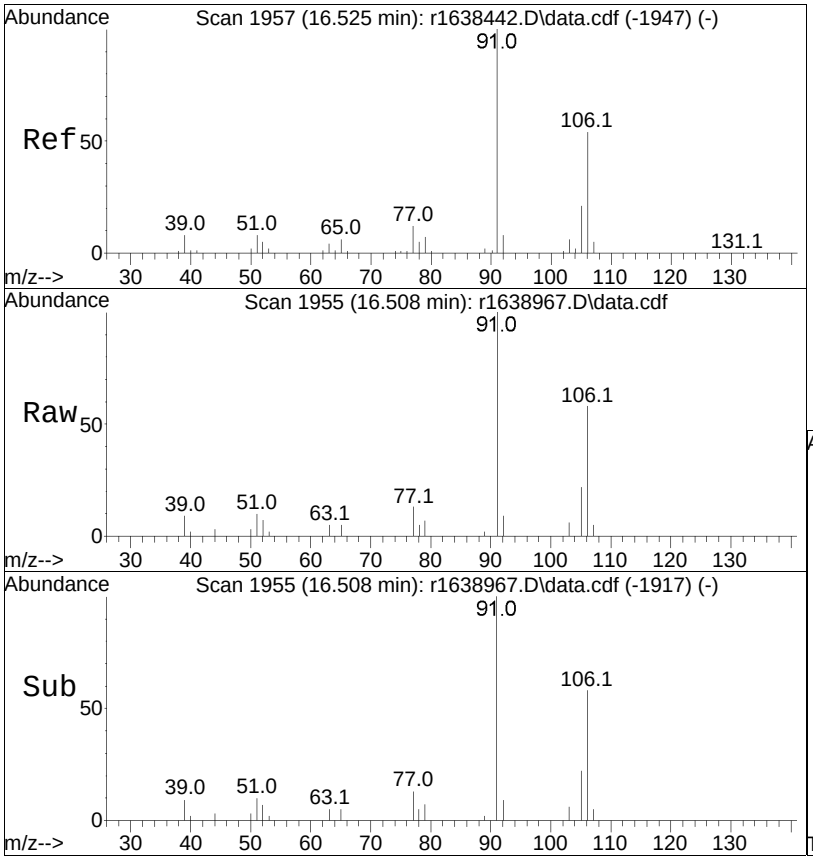


#81
ethylbenzene
Concen: 0.11 ppbV
RT: 16.358 min Scan# 1937
Delta R.T. -0.008 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 91 Resp: 5991

Ion	Ratio	Lower	Upper
91	100		
106	37.2	27.4	41.2

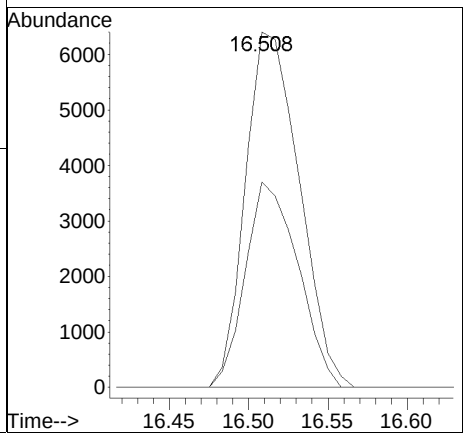


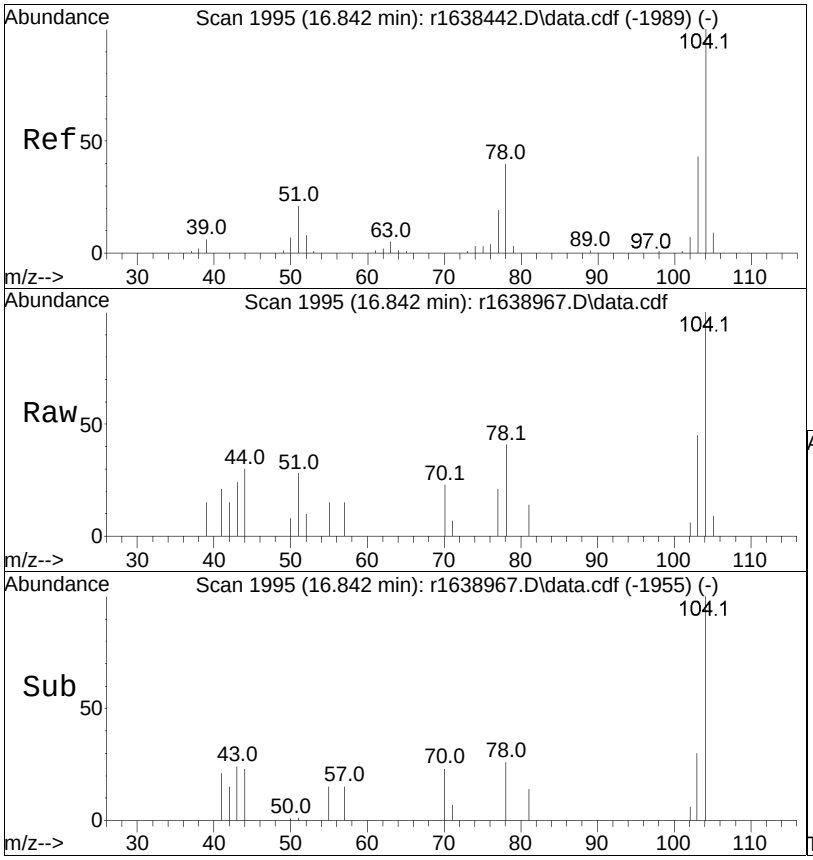


#83
m+p-xylene
Concen: 0.34 ppbV
RT: 16.508 min Scan# 1955
Delta R.T. -0.017 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 91 Resp: 15150

Ion	Ratio	Lower	Upper
91	100		
106	57.8	43.0	64.4

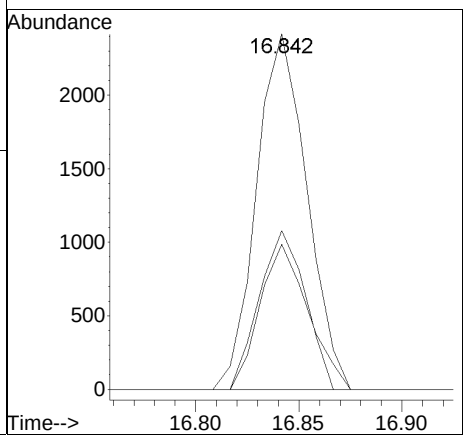


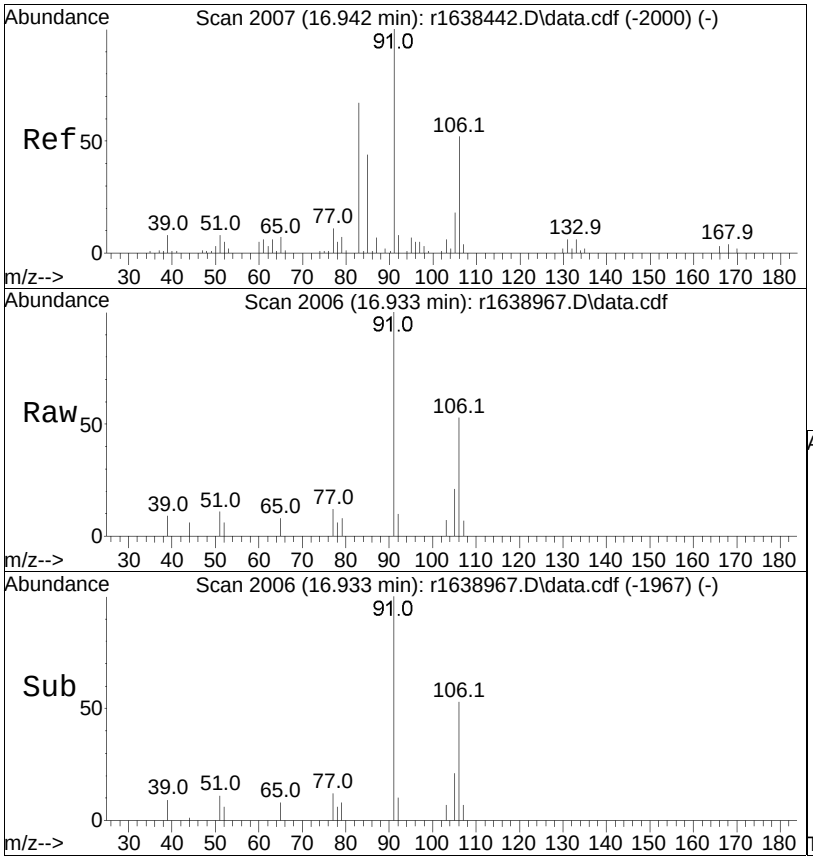


#85
styrene
Concen: 0.11 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:104 Resp: 4106

Ion	Ratio	Lower	Upper
104	100		
103	44.7	34.0	51.0
78	40.8	31.7	47.5

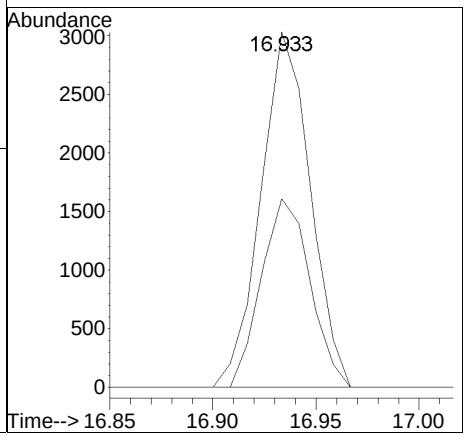


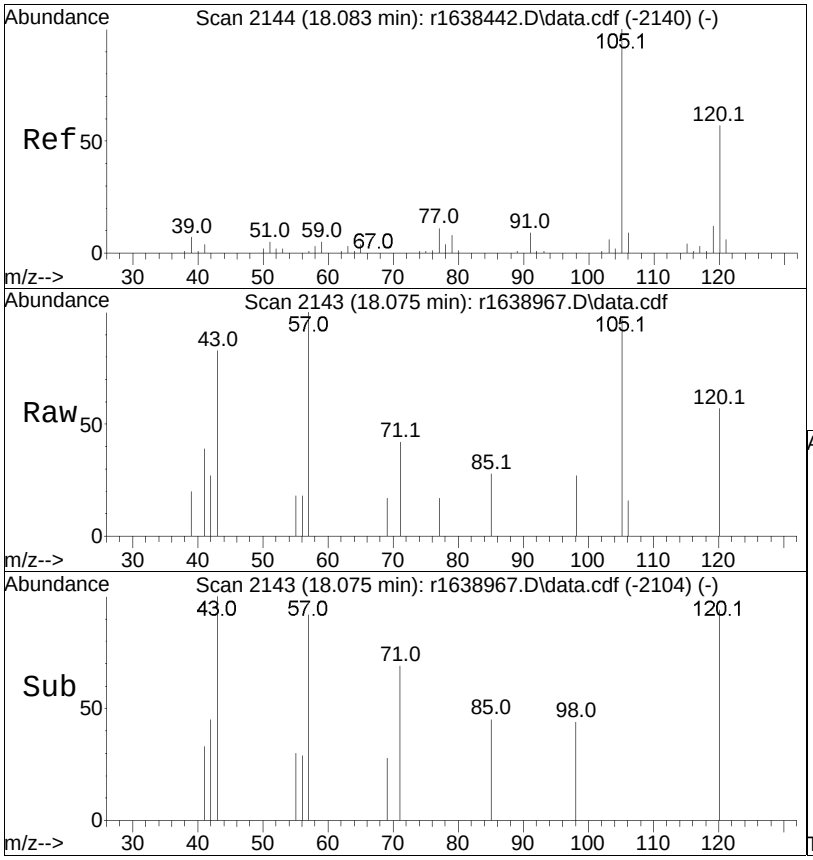


#87
o-xylene
Concen: 0.11 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion: 91 Resp: 5055

Ion	Ratio	Lower	Upper
91	100		
106	53.1	41.7	62.5

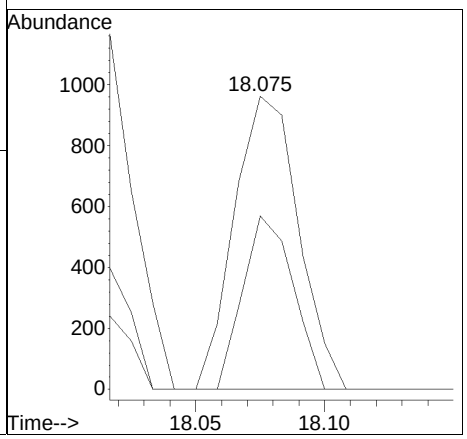


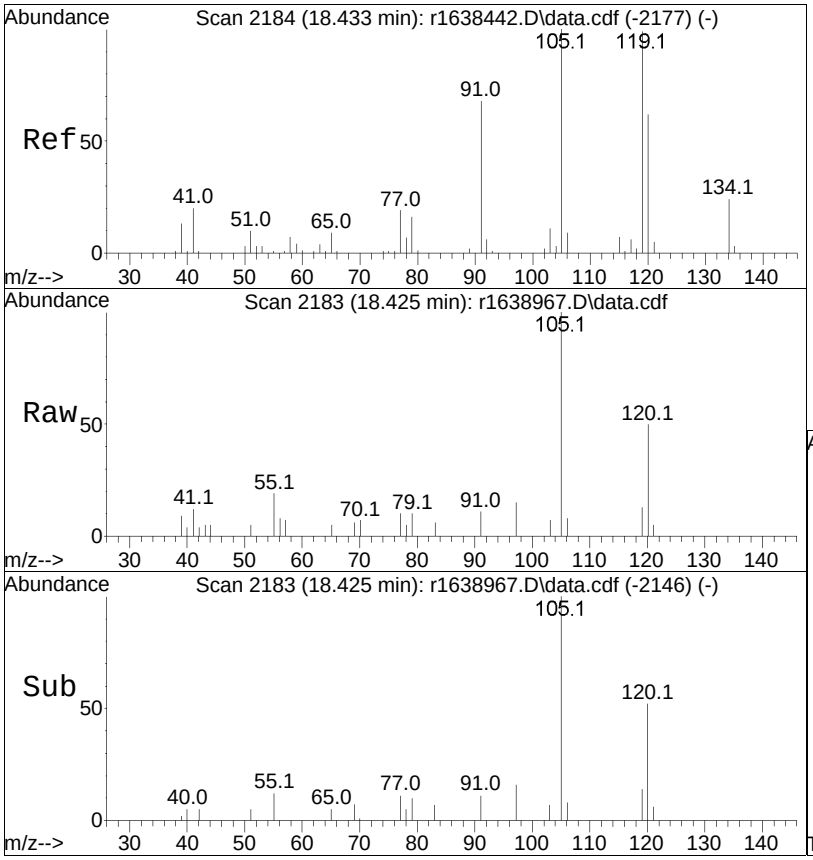


#97
1,3,5-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.075 min Scan# 2143
Delta R.T. -0.008 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:105 Resp: 1671

Ion	Ratio	Lower	Upper
105	100		
120	59.1	45.4	68.2
91	0.0	7.5	11.3#

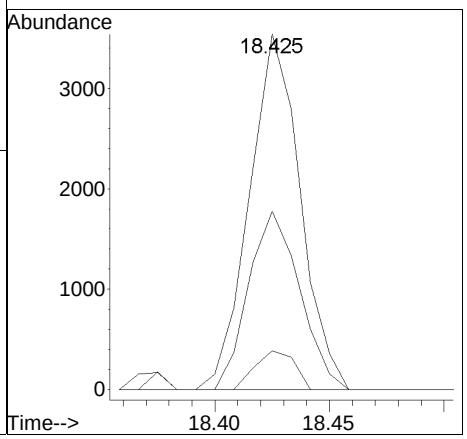




#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638967.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:105 Resp: 5472

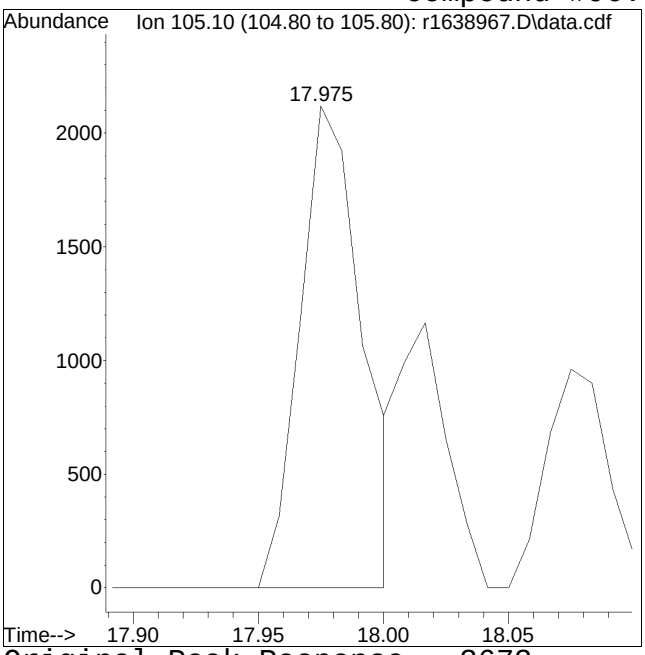
Ion	Ratio	Lower	Upper
105	100		
120	50.2	49.9	74.9
91	10.9	54.0	81.0#

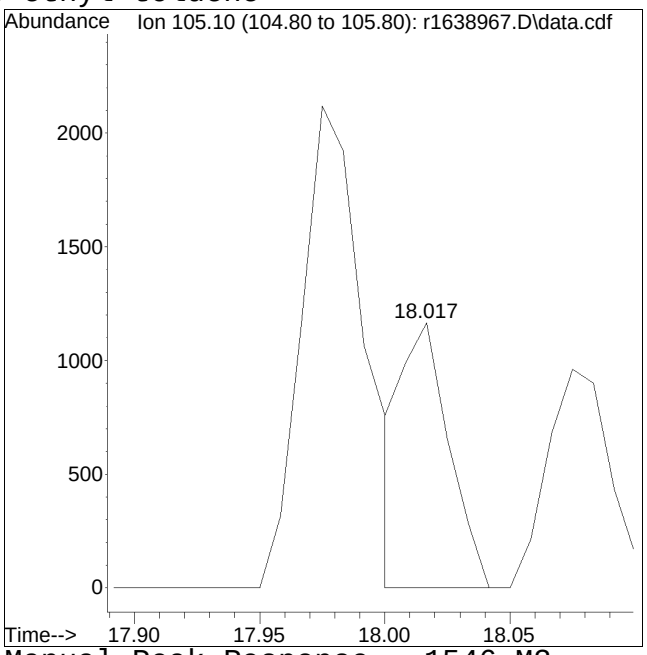


Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638967.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:0: 9 Instrument :
Sample : L2347540-07,3,250,250 Quant Date : 8/23/2023 6:33 am

Compound #96: 4-ethyl toluene





Original Peak Response = 3673 Manual Peak Response = 1546 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638968.D
Acq On : 22 Aug 2023 11:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-08,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:56 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	209760	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		97.90%	
43) 1,4-difluorobenzene	11.307	114	612241	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		91.71%	
67) chlorobenzene-D5	15.983	54	78164	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		94.67%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7401	0.476	ppbV	94
6) chloromethane	4.192	50	3837	0.437	ppbV	99
7) Freon-114	4.300		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	51135	9.243	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.673	43	59870M6	5.363	ppbV	
21) trichlorofluoromethane	5.873	101	2203	0.201	ppbV	89
22) isopropyl alcohol	5.950	45	15725	0.974	ppbV #	93
27) tertiary butyl alcohol	6.612	59	1187	0.076	ppbV #	69
28) methylene chloride	6.708	49	3817	0.319	ppbV	98
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.008		0	N.D.		
31) Freon 113	7.002	101	1078	0.055	ppbV	90
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	8.417	43	8367	0.316	ppbV #	92
38) Ethyl Acetate	9.175	61	923	0.242	ppbV #	18
39) chloroform	9.250	83	718	0.043	ppbV #	82
40) Tetrahydrofuran	9.700	42	1353	0.081	ppbV #	82
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	3028	0.188	ppbV #	40
50) benzene	10.893	78	6070	0.183	ppbV #	91
53) cyclohexane	11.207	56	953	0.056	ppbV	86
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638968.D
Acq On : 22 Aug 2023 11:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-08,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:56 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

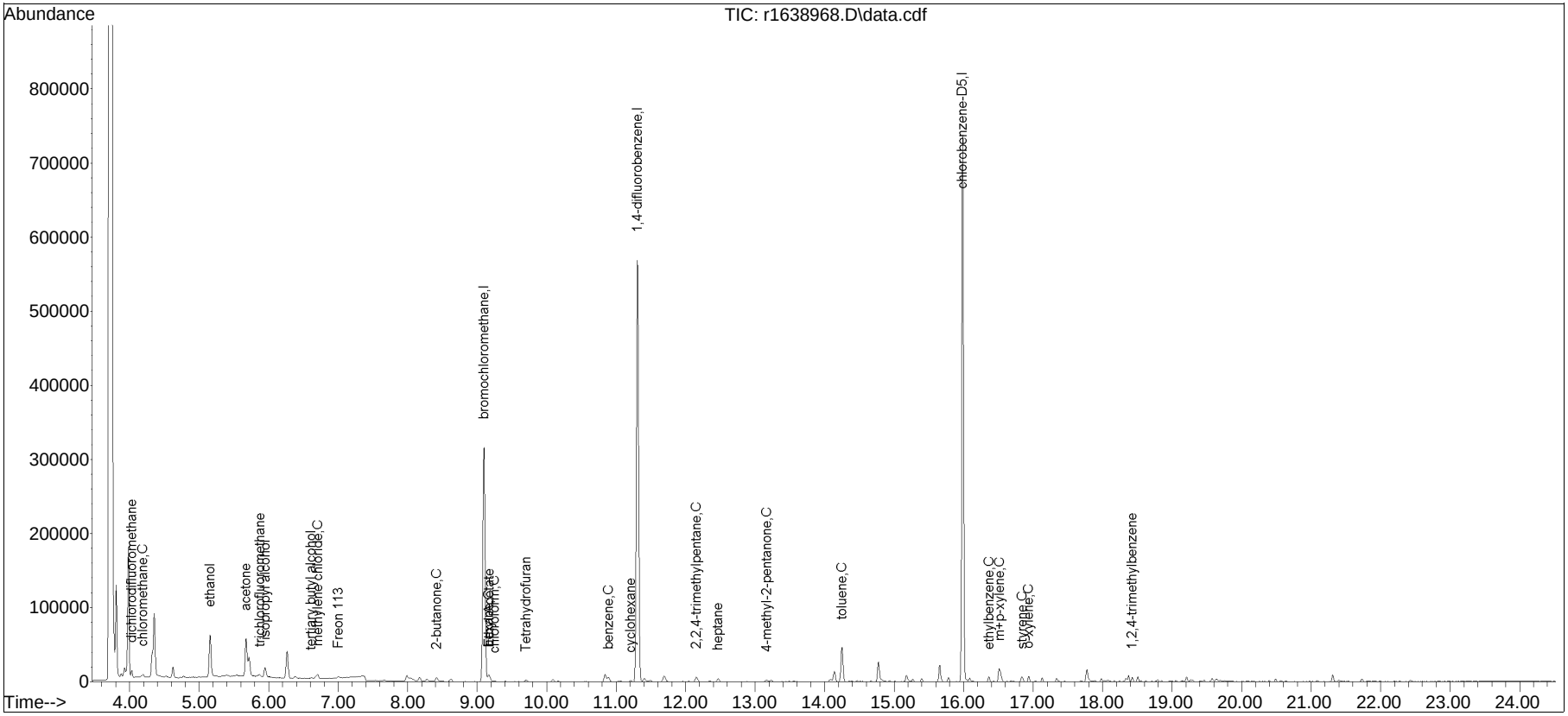
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.153	57	6771	0.129	ppbV	97
62) heptane	12.467	43	2174	0.088	ppbV	91
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.167	43	2391	0.083	ppbV #	81
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	37051	0.842	ppbV	98
72) 2-hexanone	14.508		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.367	91	5384	0.097	ppbV	98
83) m+p-xylene	16.517	91	15146	0.349	ppbV	94
84) bromoform	0.000		0	N.D.		
85) styrene	16.842	104	1724	0.048	ppbV	95
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.933	91	4880	0.113	ppbV	97
96) 4-ethyl toluene	18.017		0	N.D.		
97) 1,3,5-trimethylbenzene	18.075		0	N.D.		
99) 1,2,4-trimethylbenzene	18.425	105	3438	0.068	ppbV #	58
101) Benzyl Chloride	18.433		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

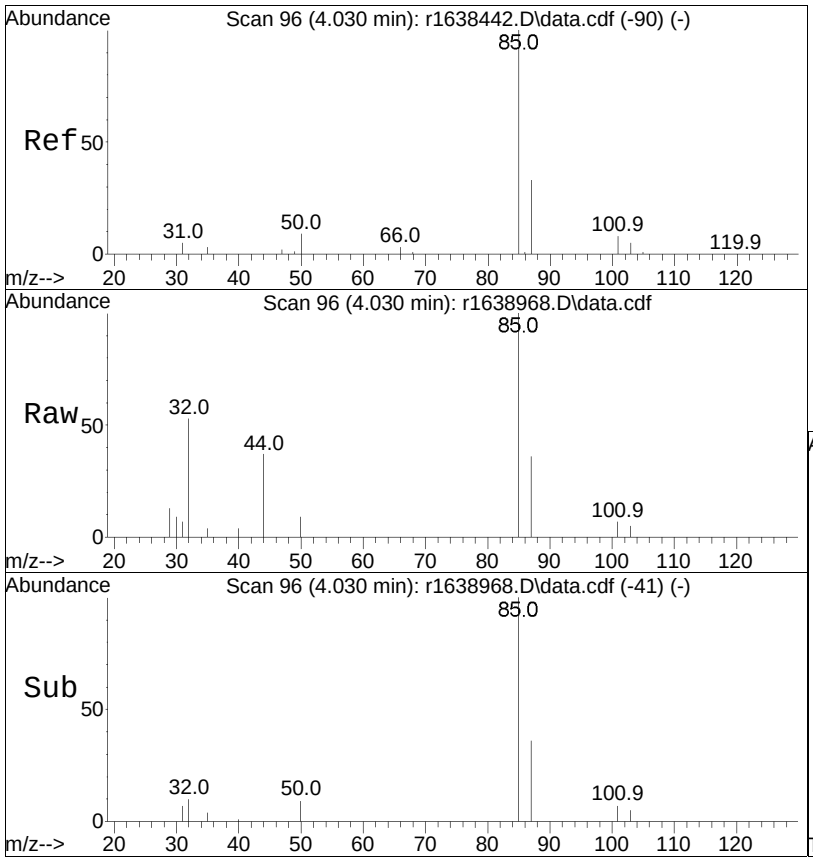
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638968.D
Acq On : 22 Aug 2023 11:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-08,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:33:56 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

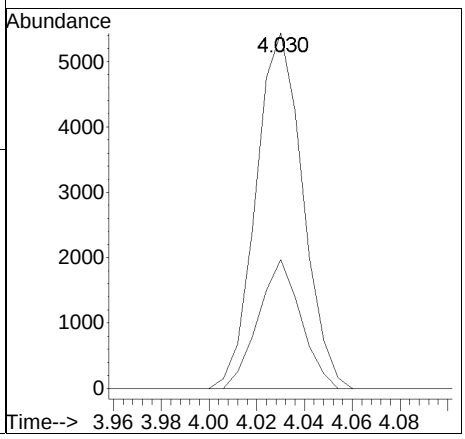


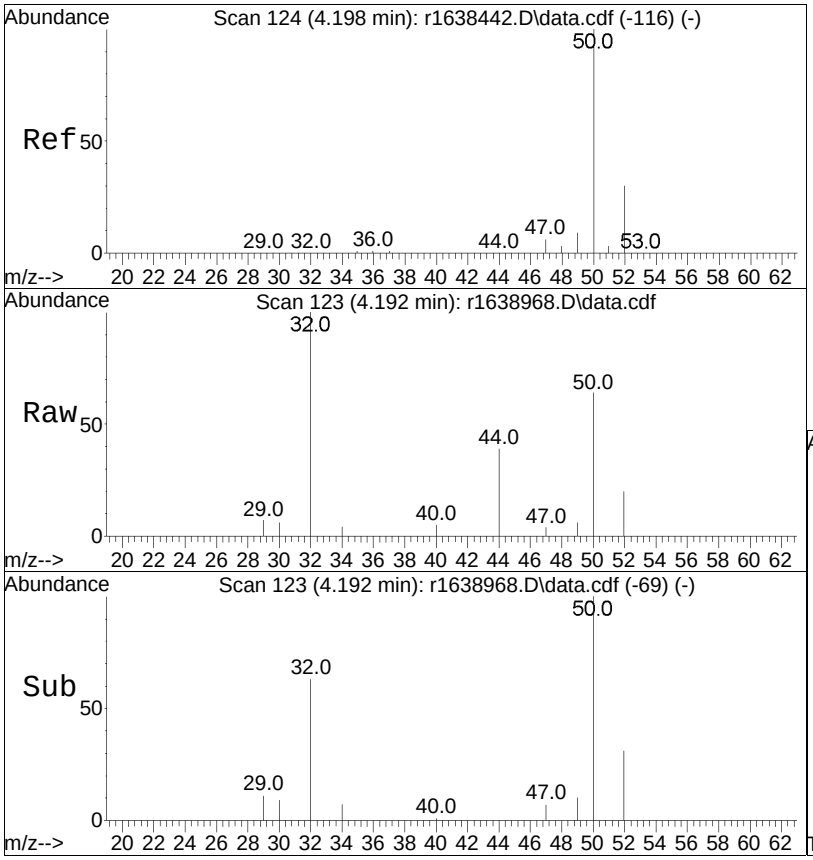


#5
dichlorodifluoromethane
Concen: 0.48 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 85 Resp: 7401

Ion	Ratio	Lower	Upper
85	100		
87	36.3	26.2	39.2

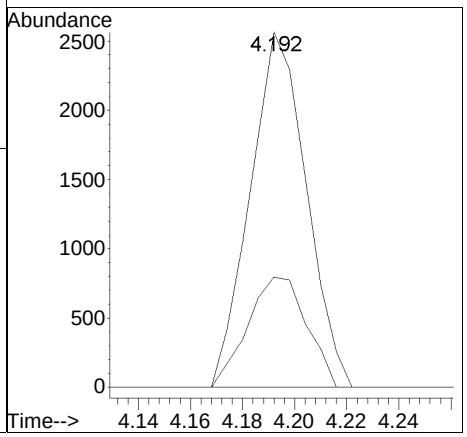


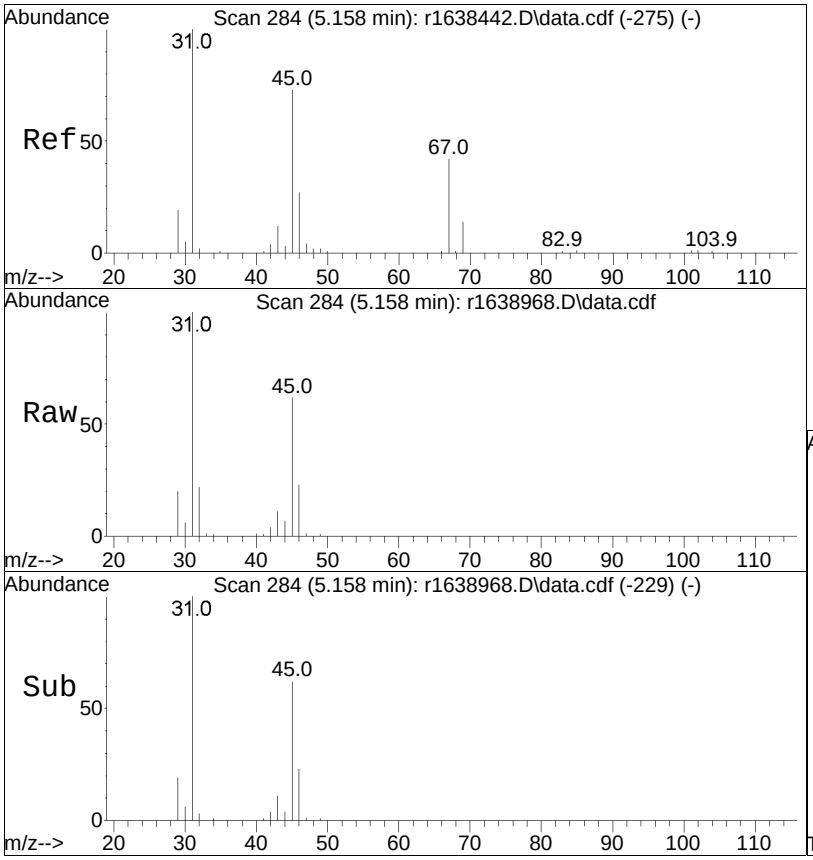


#6
chloromethane
Concen: 0.44 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 50 Resp: 3837

Ion	Ratio	Lower	Upper
50	100		
52	31.0	24.3	36.5

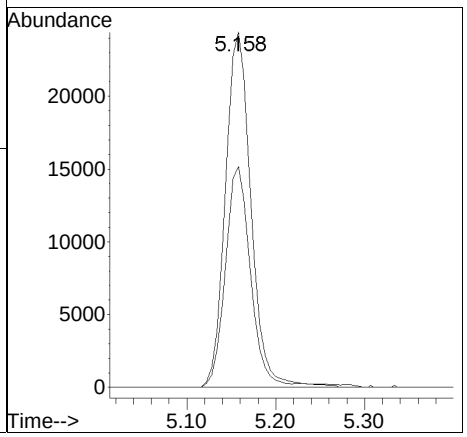


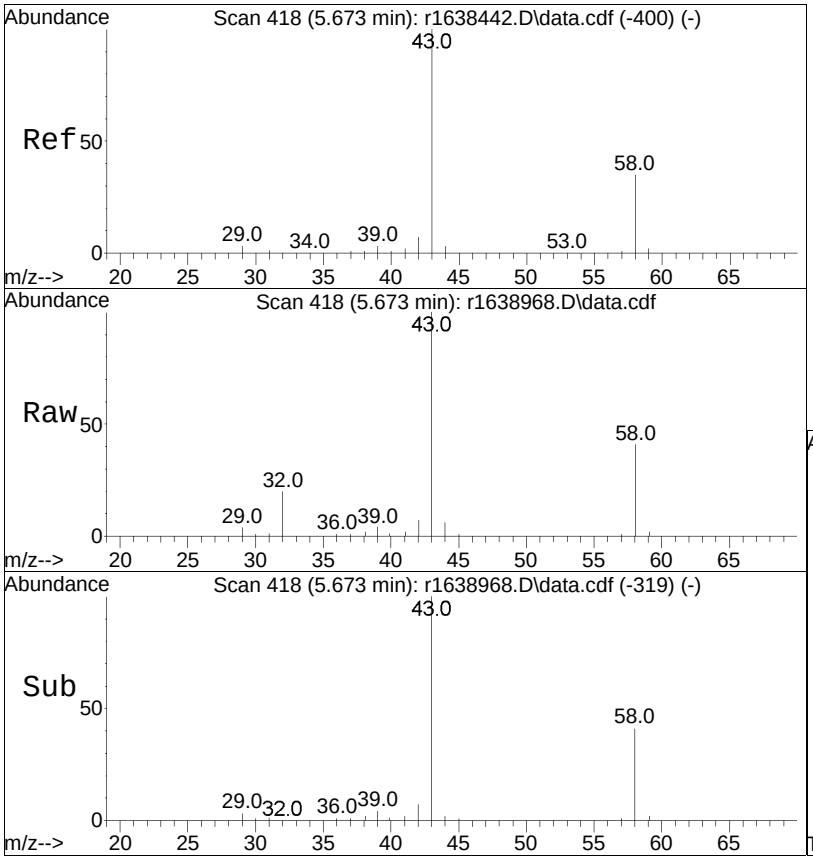


#15
ethanol
Concen: 9.24 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 31 Resp: 51135

Ion	Ratio	Lower	Upper
31	100		
45	62.2	58.6	87.8

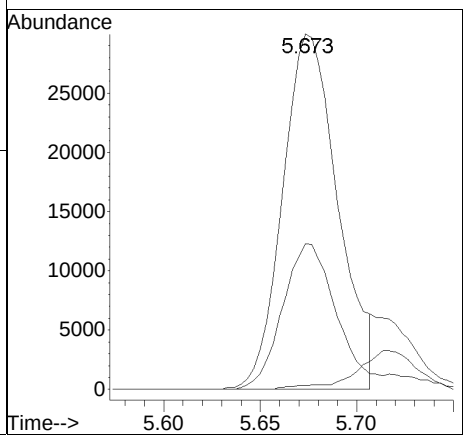


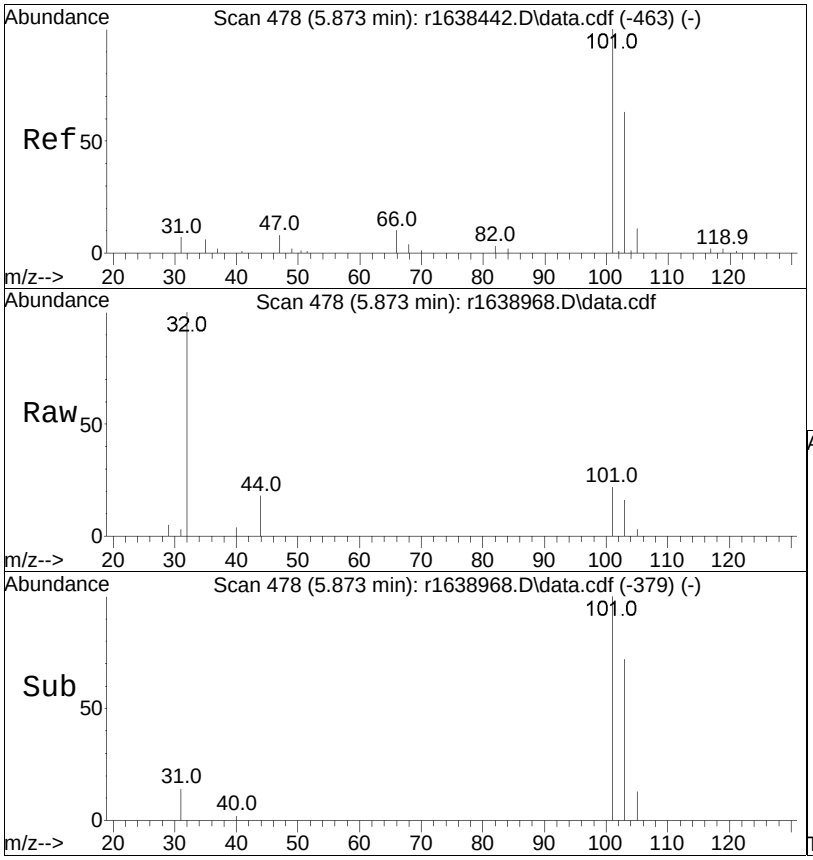


#19
acetone
Concen: 5.36 ppbV m
RT: 5.673 min Scan# 418
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 43 Resp: 59870

Ion	Ratio	Lower	Upper
43	100		
58	41.0	28.3	42.5
57	1.1	0.6	1.0#

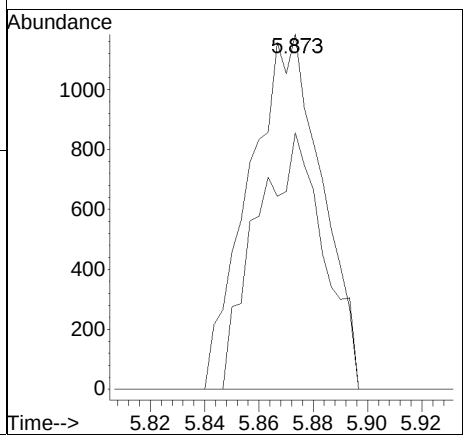


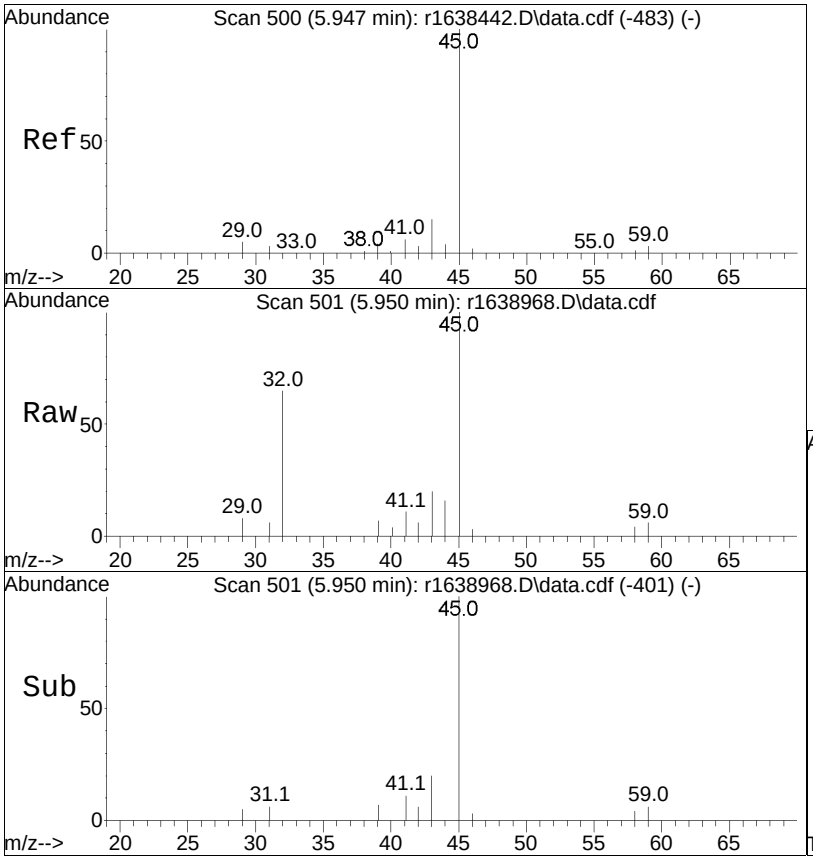


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:101 Resp: 2203

Ion	Ratio	Lower	Upper
101	100		
103	72.2	50.6	76.0

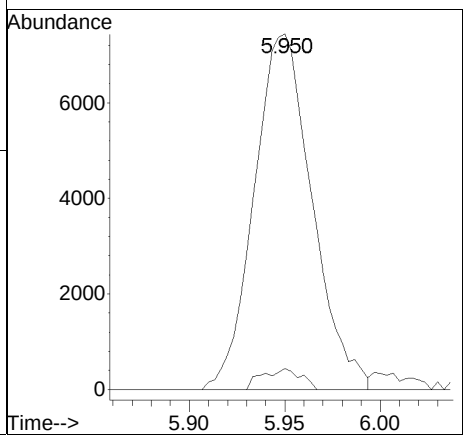


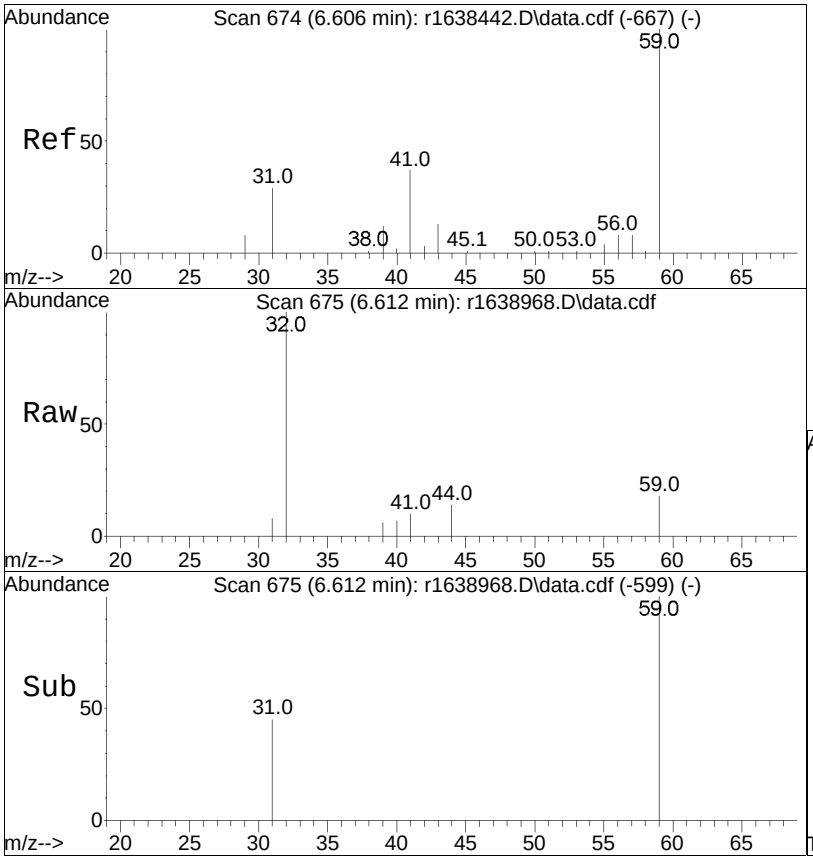


#22
isopropyl alcohol
Concen: 0.97 ppbV
RT: 5.950 min Scan# 501
Delta R.T. 0.003 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 45 Resp: 15725

Ion	Ratio	Lower	Upper
45	100		
59	5.9	2.8	4.2#

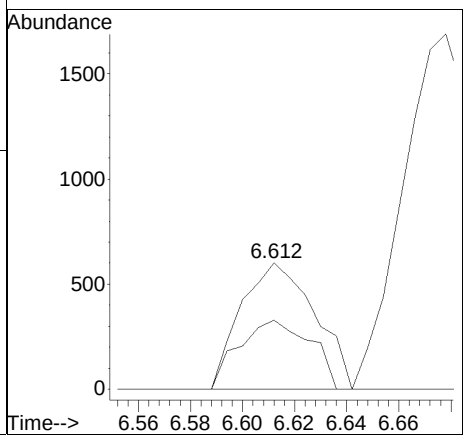


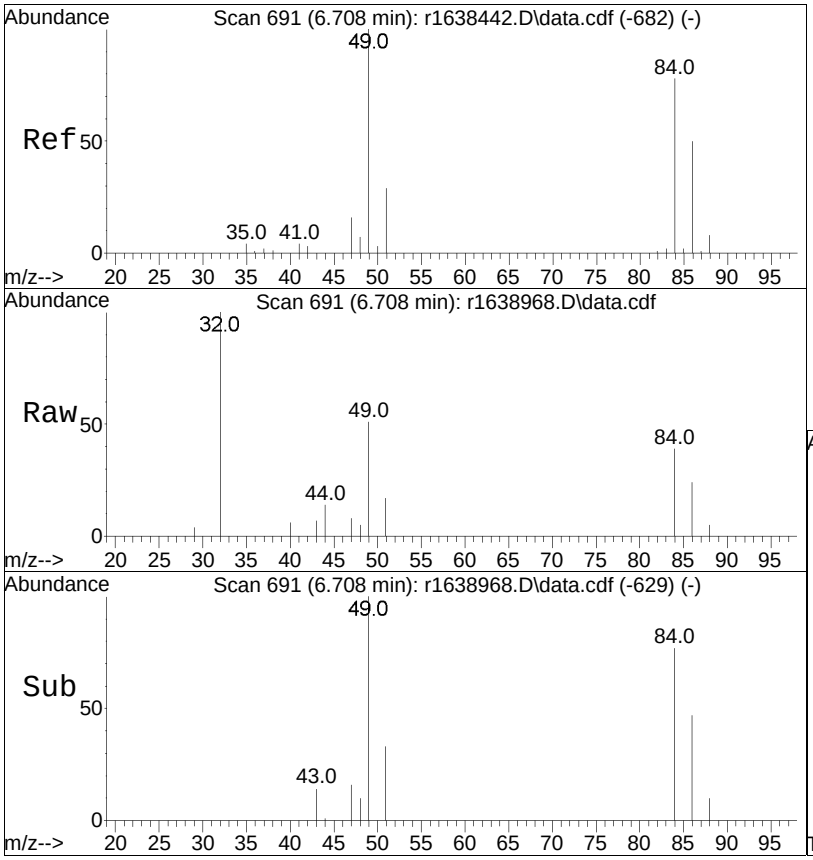


#27
tertiary butyl alcohol
Concen: 0.08 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 59 Resp: 1187

Ion	Ratio	Lower	Upper
59	100		
41	54.7	29.3	43.9#
43	0.0	10.1	15.1#

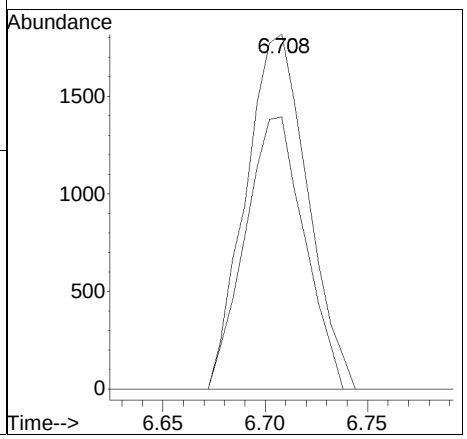


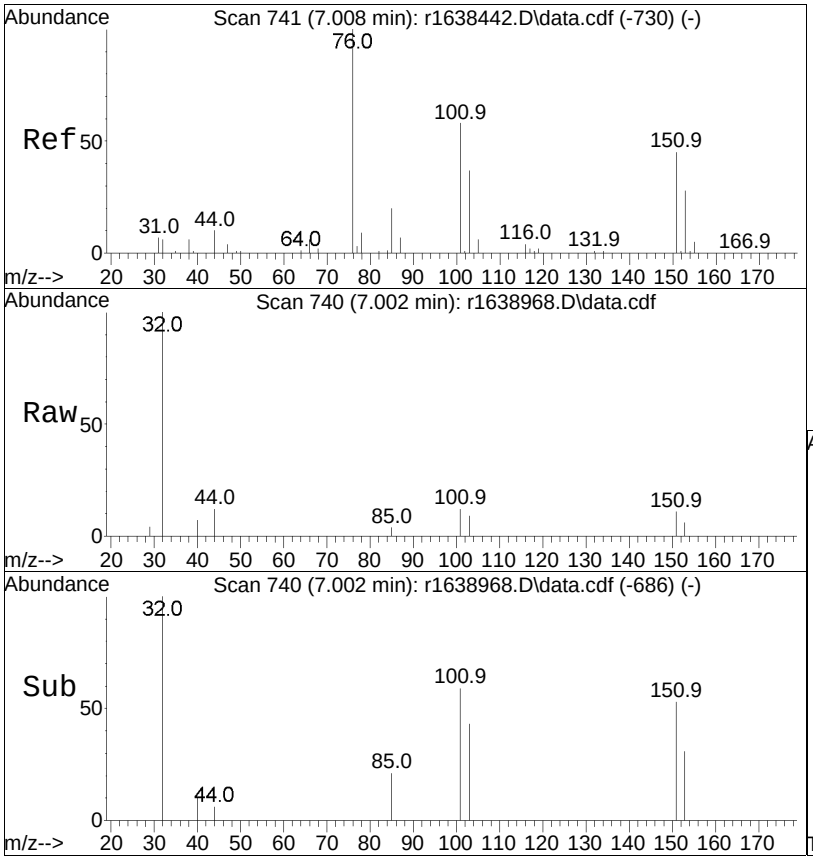


#28
methylene chloride
Concen: 0.32 ppbV
RT: 6.708 min Scan# 691
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 49 Resp: 3817

Ion	Ratio	Lower	Upper
49	100		
84	76.7	62.4	93.6

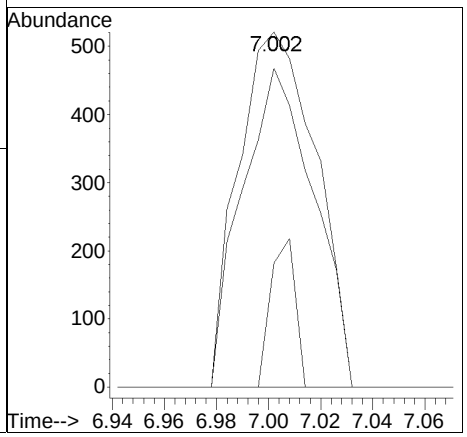


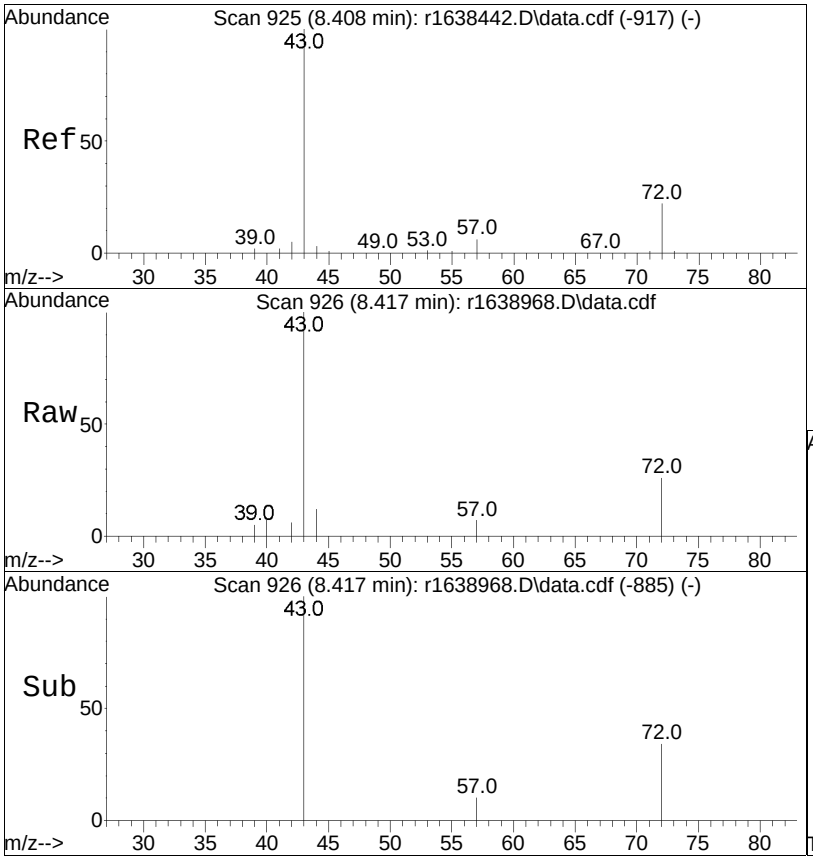


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:101 Resp: 1078

Ion	Ratio	Lower	Upper
101	100		
85	34.9	27.8	41.6
151	89.8	62.2	93.4

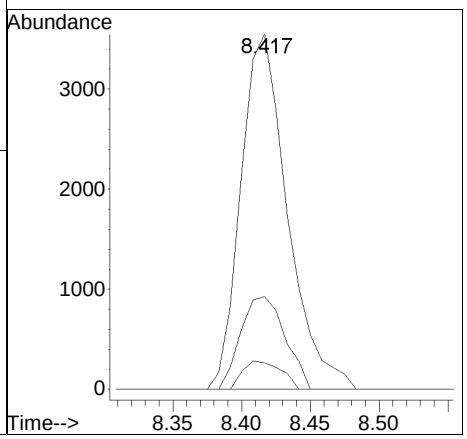


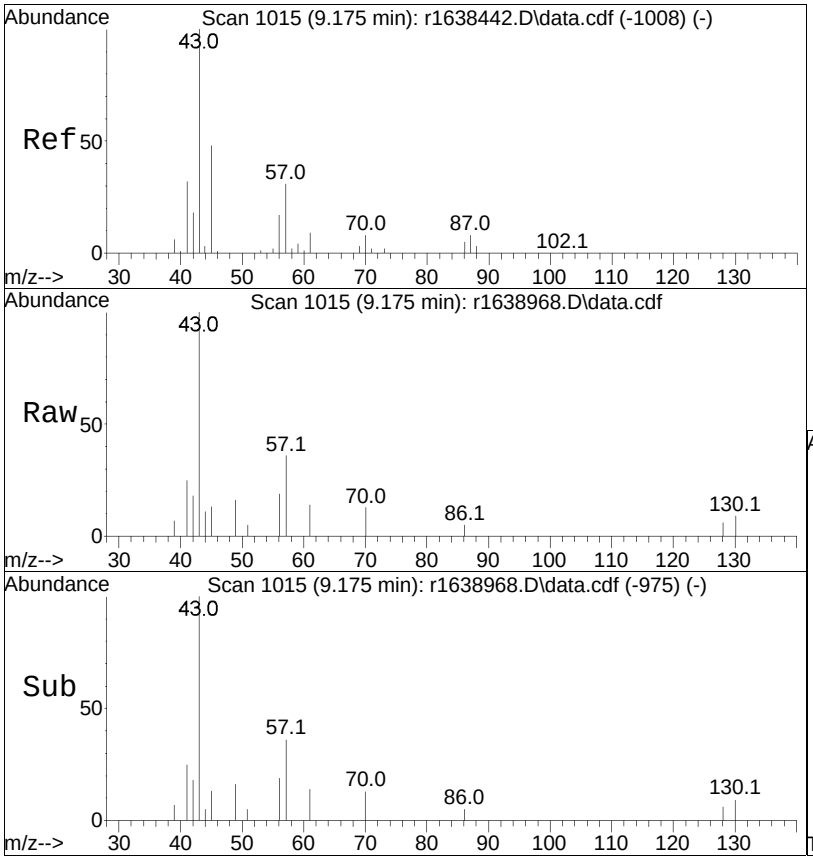


#36
2-butanone
Concen: 0.32 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 43 Resp: 8367

Ion	Ratio	Lower	Upper
43	100		
72	26.1	17.4	26.0#
57	7.5	4.8	7.2#

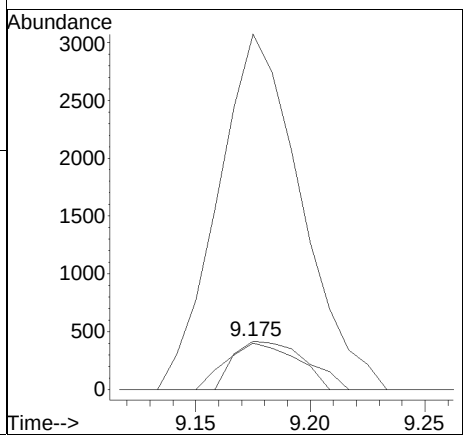


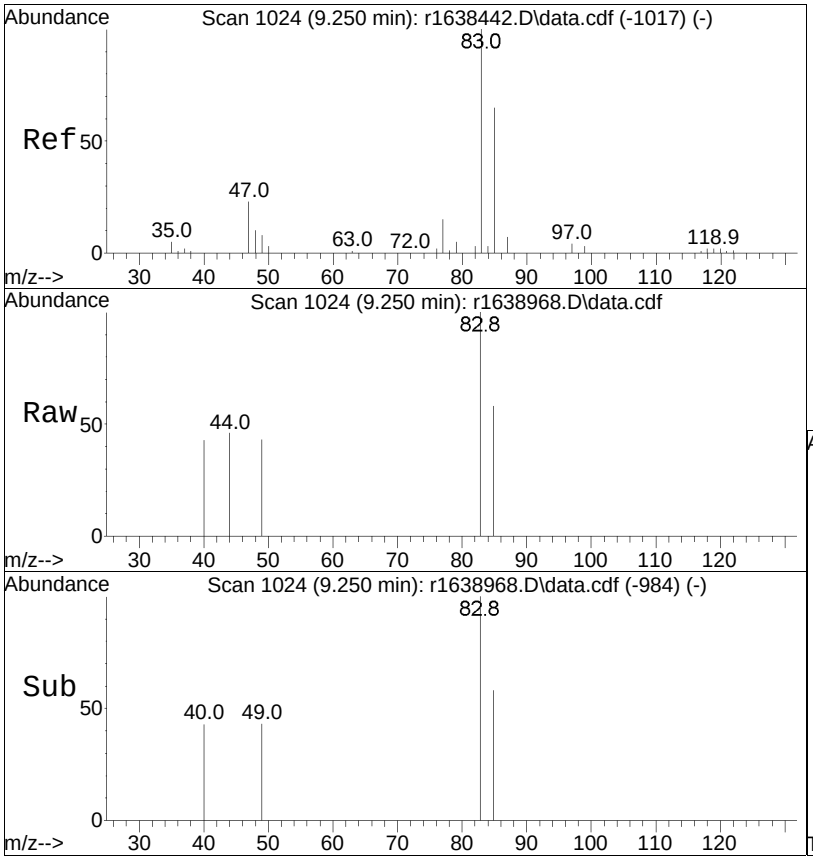


#38
Ethyl Acetate
Concen: 0.24 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 61 Resp: 923

Ion	Ratio	Lower	Upper
61	100		
70	96.2	74.6	112.0
43	737.2	942.0	1413.0#

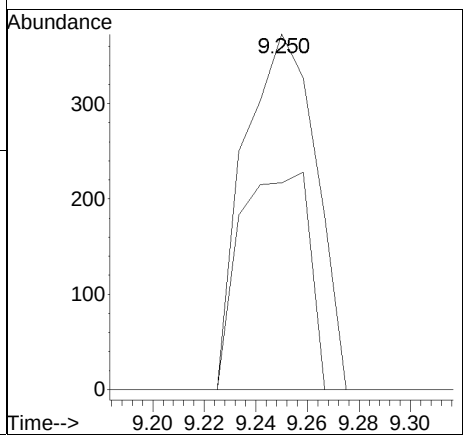


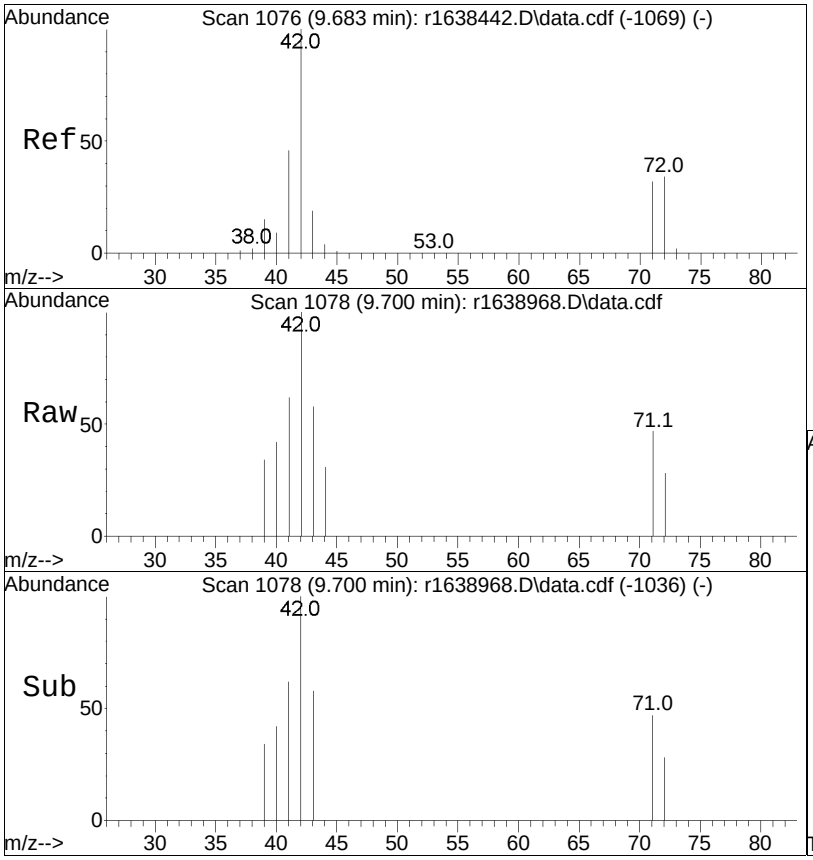


#39
chloroform
Concen: 0.04 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 83 Resp: 718

Ion	Ratio	Lower	Upper
83	100		
85	58.2	51.9	77.9
47	0.0	18.0	27.0#

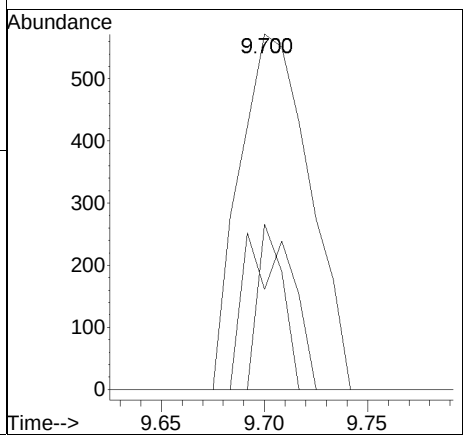


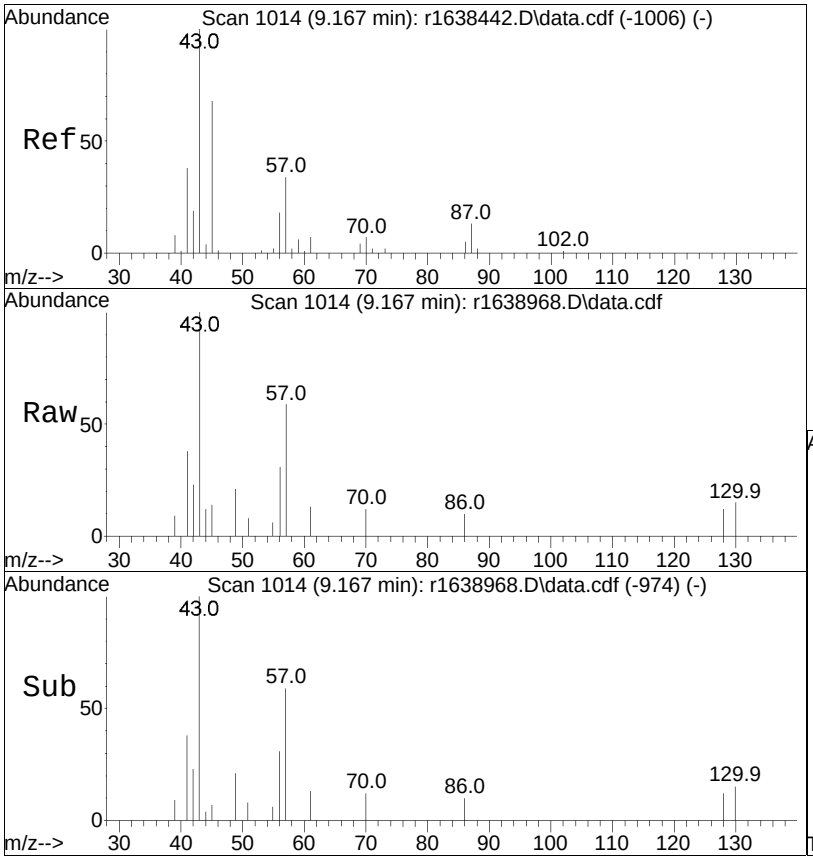


#40
Tetrahydrofuran
Concen: 0.08 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 42 Resp: 1353

Ion	Ratio	Lower	Upper
42	100		
71	46.5	25.6	38.4#
72	28.1	27.4	41.2

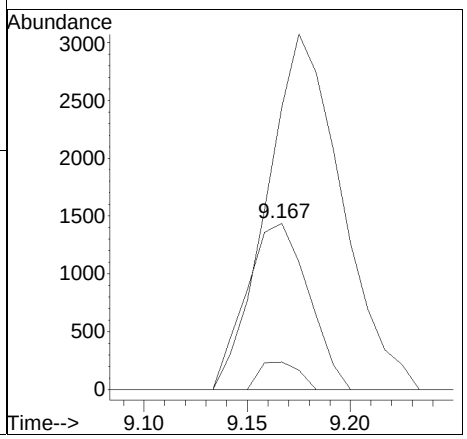


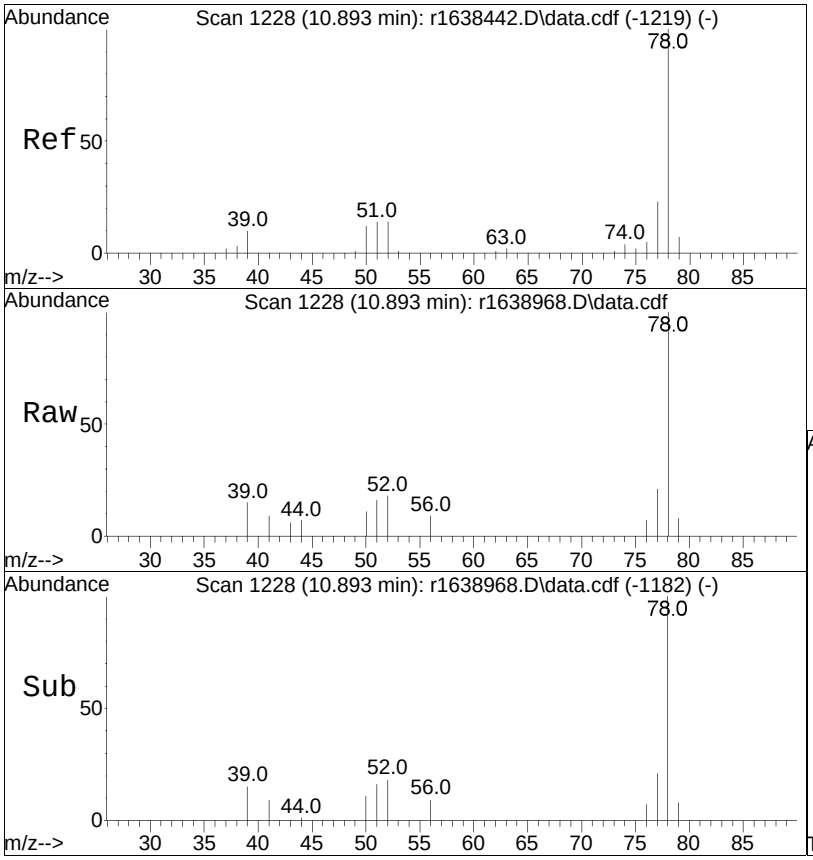


#44
hexane
Concen: 0.19 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 57 Resp: 3028

Ion	Ratio	Lower	Upper
57	100		
43	169.7	233.1	349.7#
86	16.6	12.6	18.8

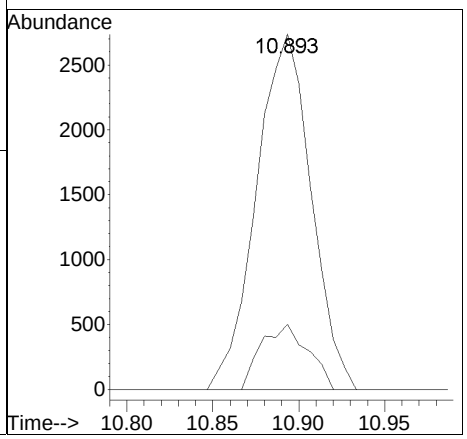


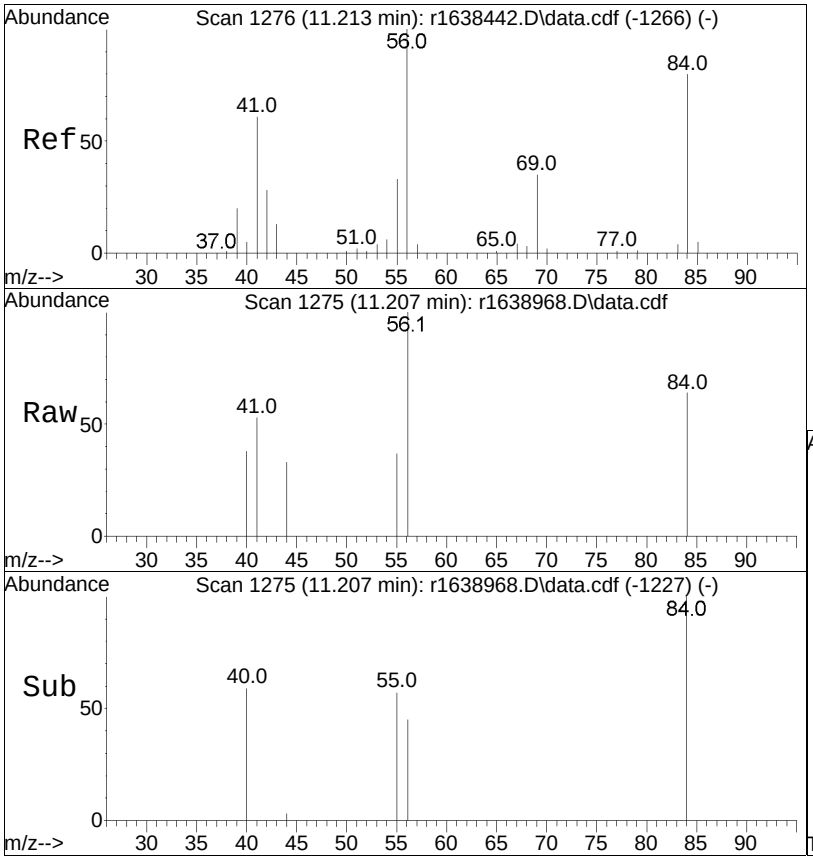


#50
benzene
Concen: 0.18 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 78 Resp: 6070

Ion	Ratio	Lower	Upper
78	100		
52	18.3	11.6	17.4#

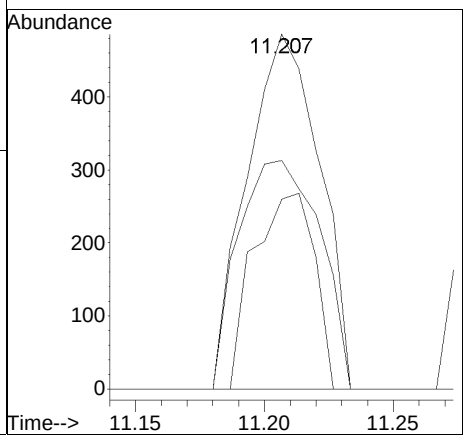


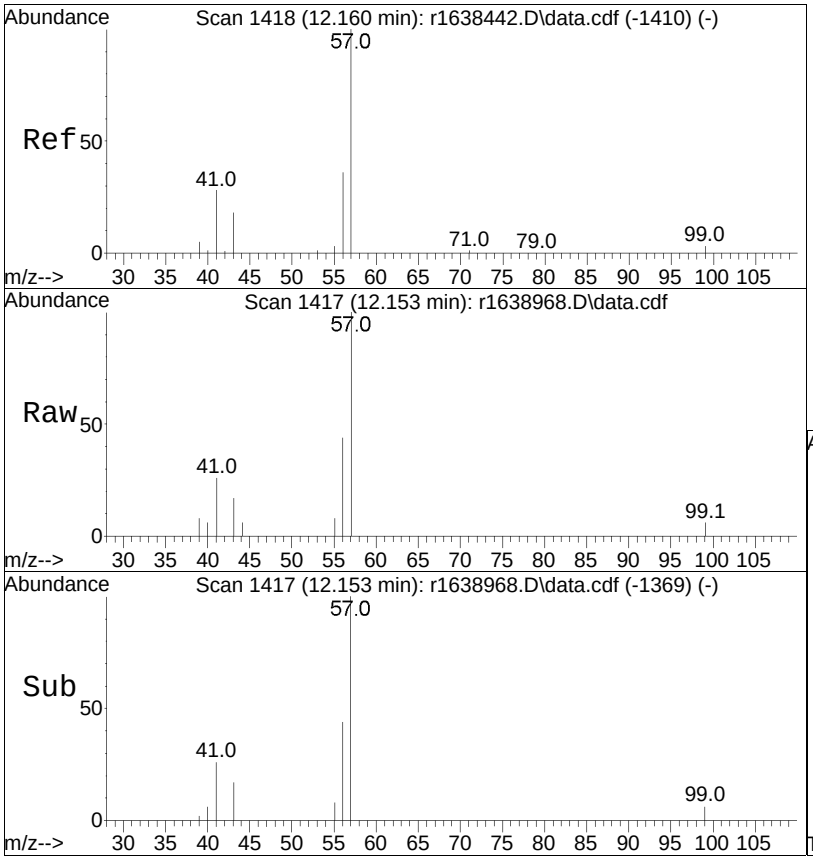


#53
cyclohexane
Concen: 0.06 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 56 Resp: 953

Ion	Ratio	Lower	Upper
56	100		
84	64.4	64.2	96.4
41	53.5	48.8	73.2

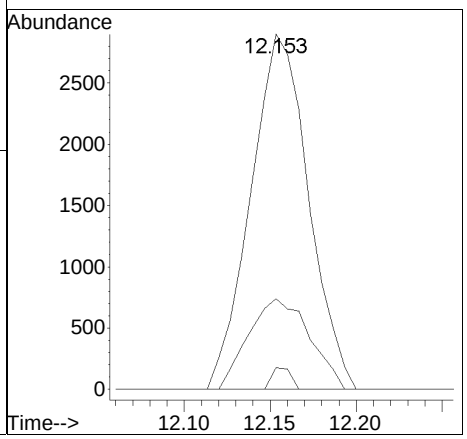


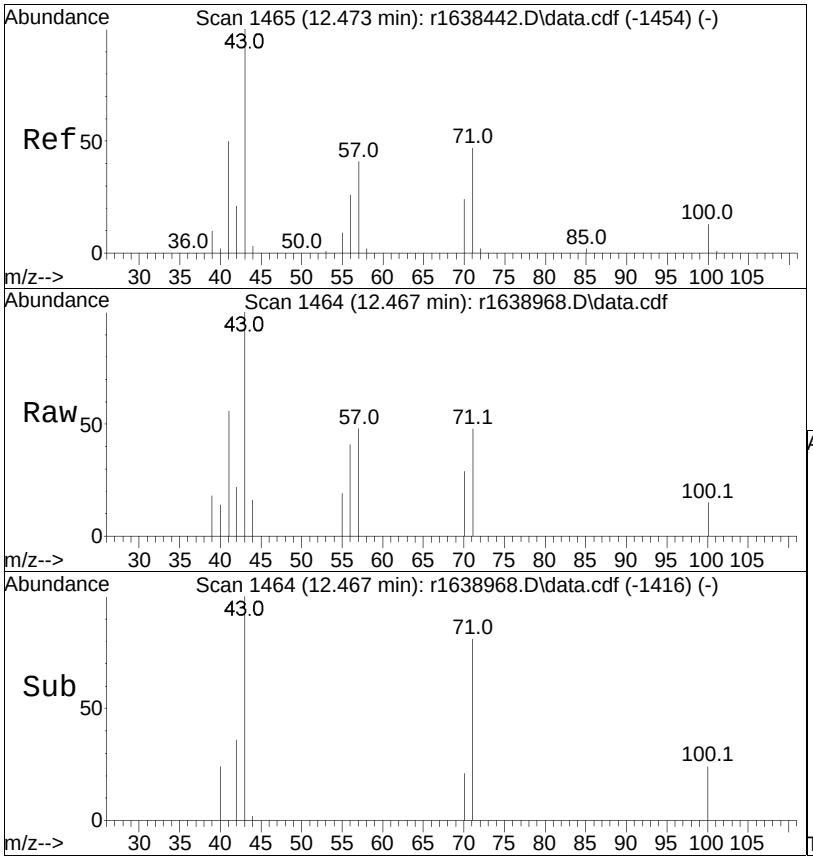


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 57 Resp: 6771

Ion	Ratio	Lower	Upper
57	100		
99	6.1	4.4	6.6
41	25.5	21.9	32.9

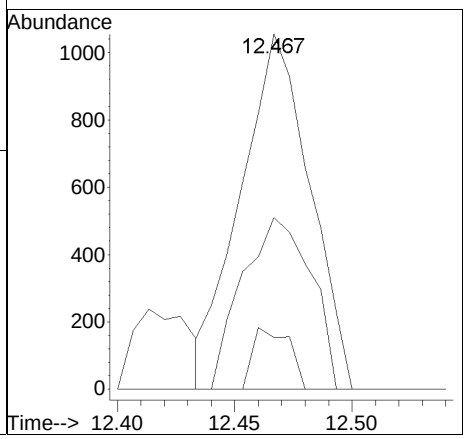


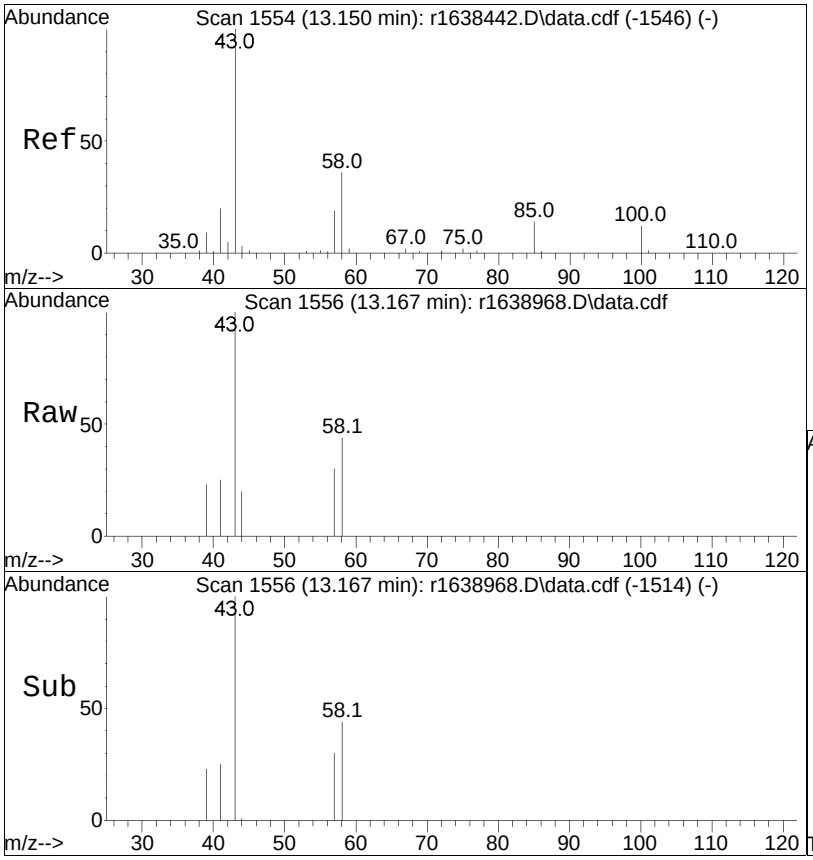


#62
heptane
Concen: 0.09 ppbV
RT: 12.467 min Scan# 1464
Delta R.T. -0.007 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 43 Resp: 2174

Ion	Ratio	Lower	Upper
43	100		
57	48.3	32.8	49.2
100	14.6	10.9	16.3

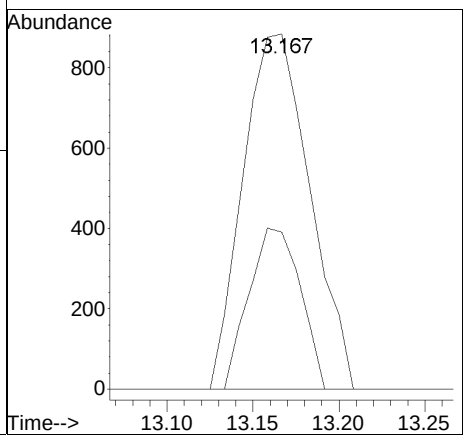


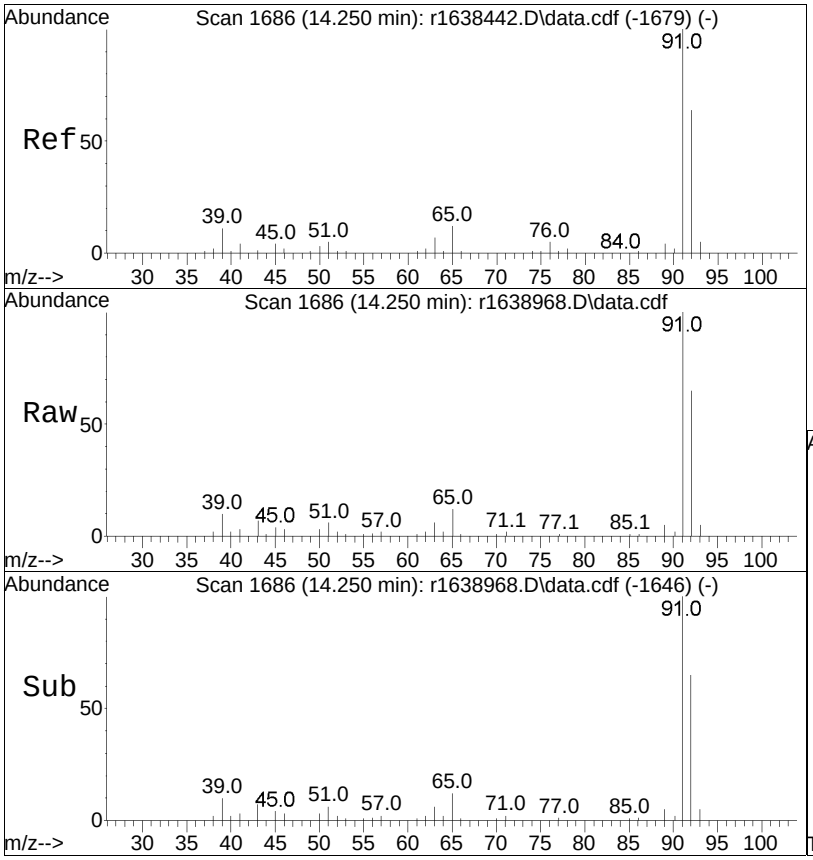


#64
4-methyl-2-pentanone
Concen: 0.08 ppbV
RT: 13.167 min Scan# 1556
Delta R.T. 0.017 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 43 Resp: 2391

Ion	Ratio	Lower	Upper
43	100		
58	44.2	28.6	43.0#
100	0.0	9.9	14.9#

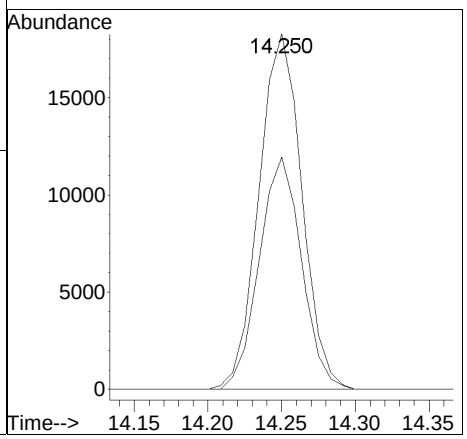


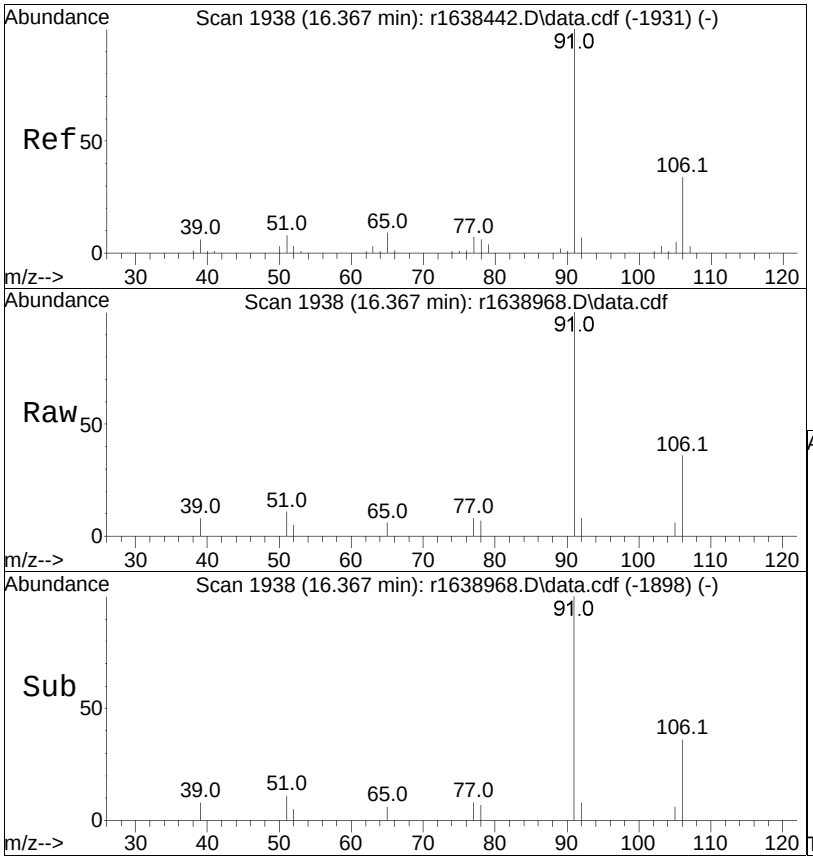


#68
toluene
Concen: 0.84 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 91 Resp: 37051

Ion	Ratio	Lower	Upper
91	100		
92	65.4	51.0	76.4

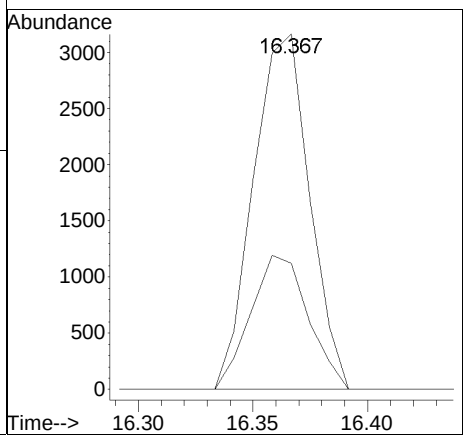


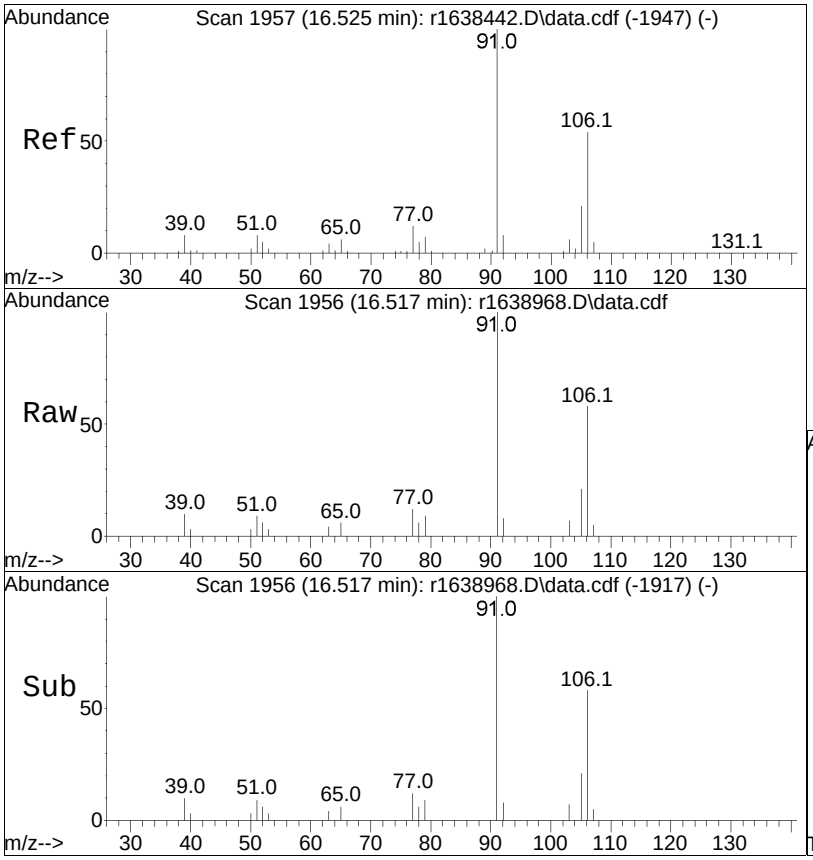


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 91 Resp: 5384

Ion	Ratio	Lower	Upper
91	100		
106	35.5	27.4	41.2

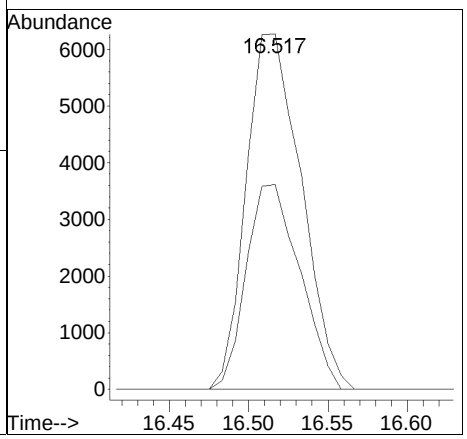


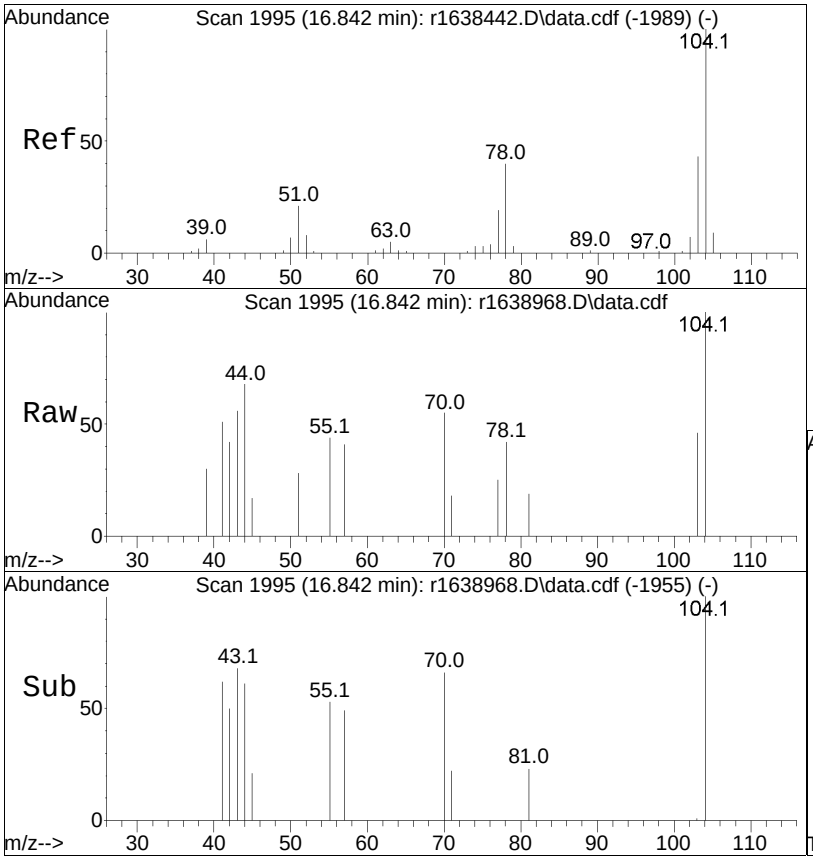


#83
m+p-xylene
Concen: 0.35 ppbV
RT: 16.517 min Scan# 1956
Delta R.T. -0.008 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 91 Resp: 15146

Ion	Ratio	Lower	Upper
91	100		
106	57.6	43.0	64.4

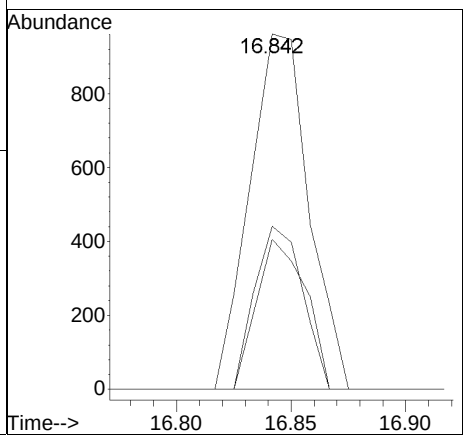


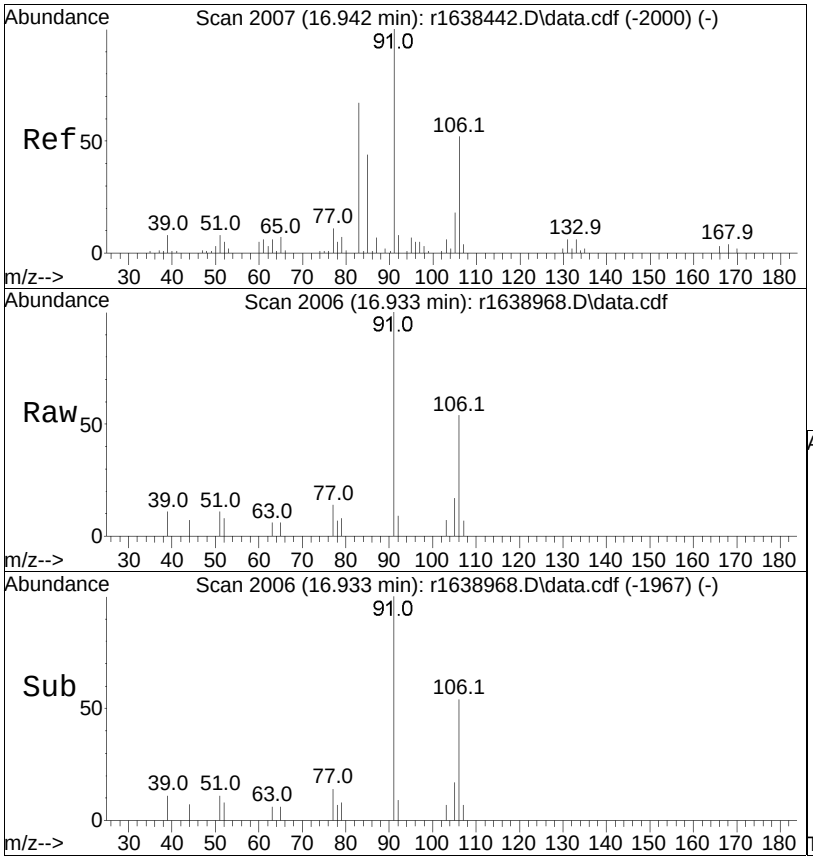


#85
styrene
Concen: 0.05 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:104 Resp: 1724

Ion	Ratio	Lower	Upper
104	100		
103	45.9	34.0	51.0
78	42.2	31.7	47.5

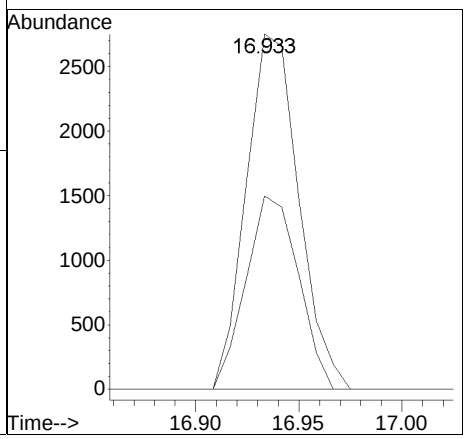


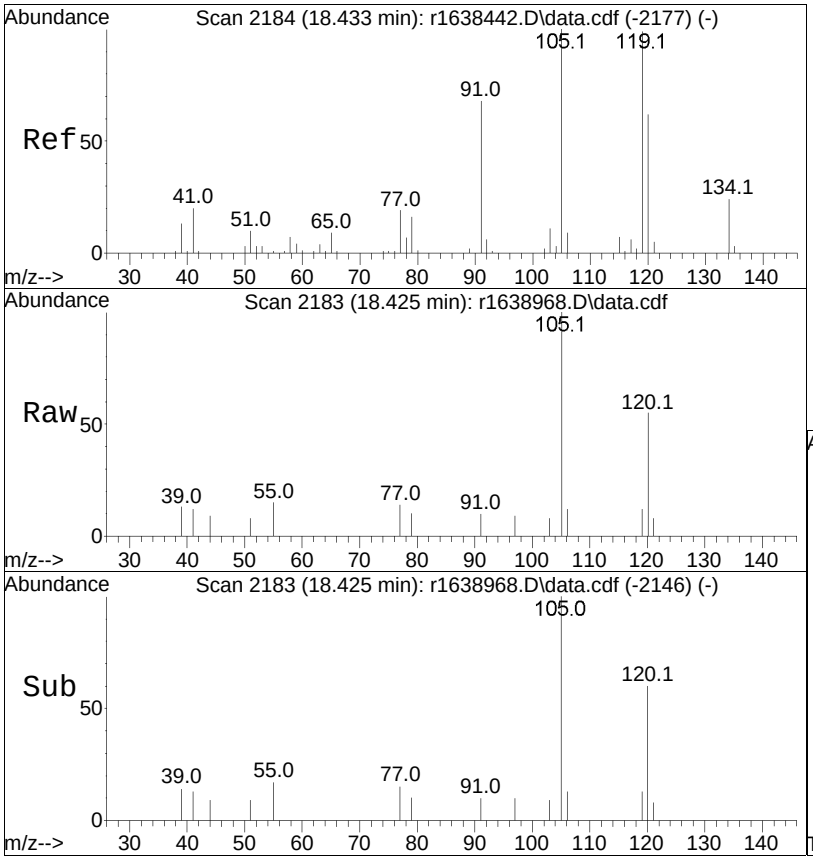


#87
o-xylene
Concen: 0.11 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion: 91 Resp: 4880

Ion	Ratio	Lower	Upper
91	100		
106	54.4	41.7	62.5

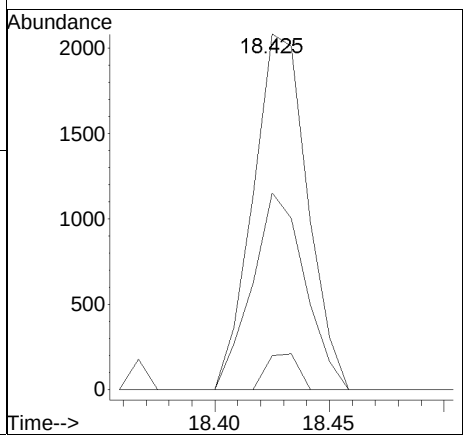




#99
1,2,4-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638968.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:105 Resp: 3438

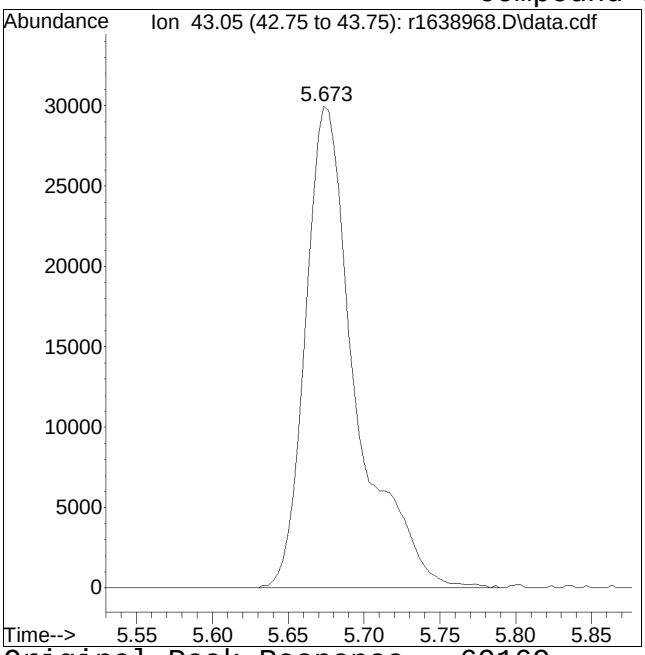
Ion	Ratio	Lower	Upper
105	100		
120	55.3	49.9	74.9
91	9.5	54.0	81.0#



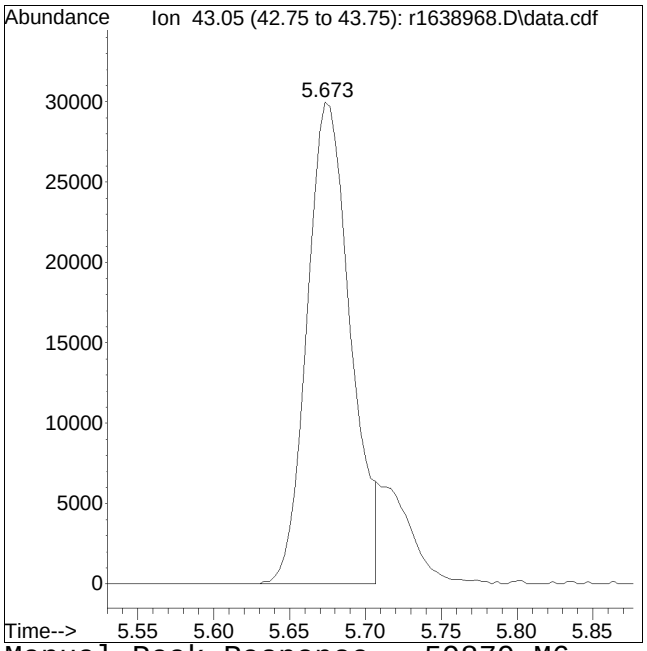
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638968.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:1: 9 Instrument :
Sample : L2347540-08,3,250,250 Quant Date : 8/23/2023 6:33 am

Compound #19: acetone



Original Peak Response = 69169



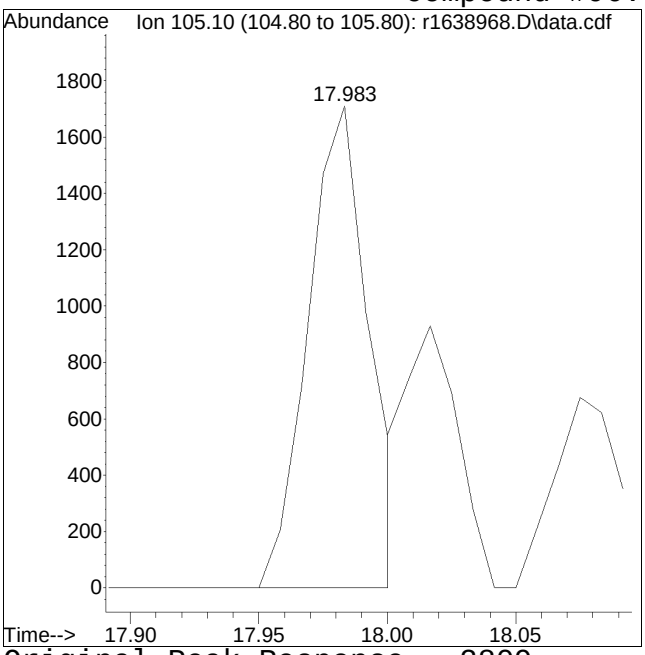
Manual Peak Response = 59870 M6

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

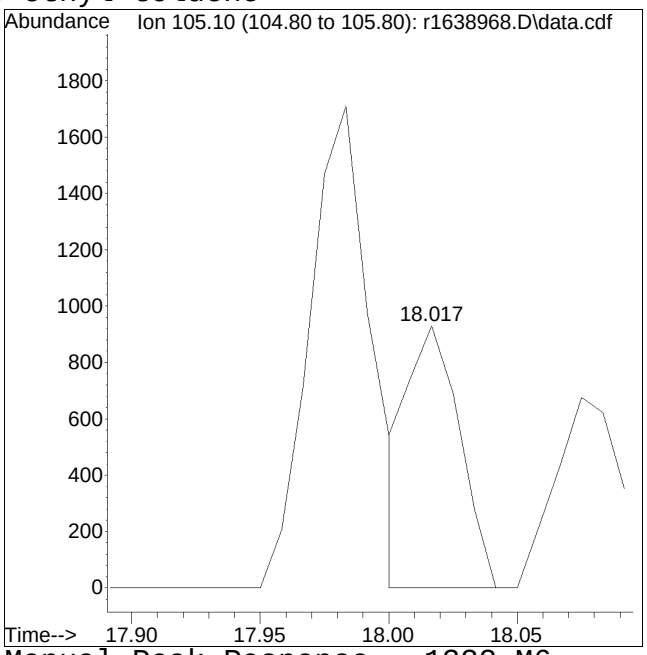
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638968.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:1: 9 Instrument :
Sample : L2347540-08,3,250,250 Quant Date : 8/23/2023 6:33 am

Compound #96: 4-ethyl toluene



Original Peak Response = 2809



Manual Peak Response = 1322 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638969.D
Acq On : 22 Aug 2023 11:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-09,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:24 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	210916	10.000	ppbV	0.00
Standard Area = 214255			Recovery =	98.44%		
43) 1,4-difluorobenzene	11.307	114	617177	10.000	ppbV	0.00
Standard Area = 667571			Recovery =	92.45%		
67) chlorobenzene-D5	15.983	54	78045	10.000	ppbV	0.00
Standard Area = 82563			Recovery =	94.53%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	7115	0.455	ppbV	98
6) chloromethane	4.192	50	3816	0.433	ppbV	97
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	41068	7.383	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.673	43	66594M6	5.933	ppbV	
21) trichlorofluoromethane	5.873	101	1905	0.173	ppbV	95
22) isopropyl alcohol	5.950	45	14870	0.916	ppbV	99
27) tertiary butyl alcohol	6.618	59	969	0.062	ppbV #	75
28) methylene chloride	6.702	49	3658	0.304	ppbV	97
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	7.008		0	N.D.		
31) Freon 113	7.002	101	1017	0.052	ppbV #	76
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	8.417	43	8165	0.307	ppbV #	89
38) Ethyl Acetate	9.183	61	723	0.188	ppbV #	1
39) chloroform	9.250		0	N.D.		
40) Tetrahydrofuran	9.700	42	2336	0.138	ppbV #	81
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.158	57	2519	0.155	ppbV #	6
50) benzene	10.893	78	5679	0.170	ppbV	98
53) cyclohexane	11.207	56	860	0.050	ppbV #	88
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638969.D
Acq On : 22 Aug 2023 11:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-09,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:24 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

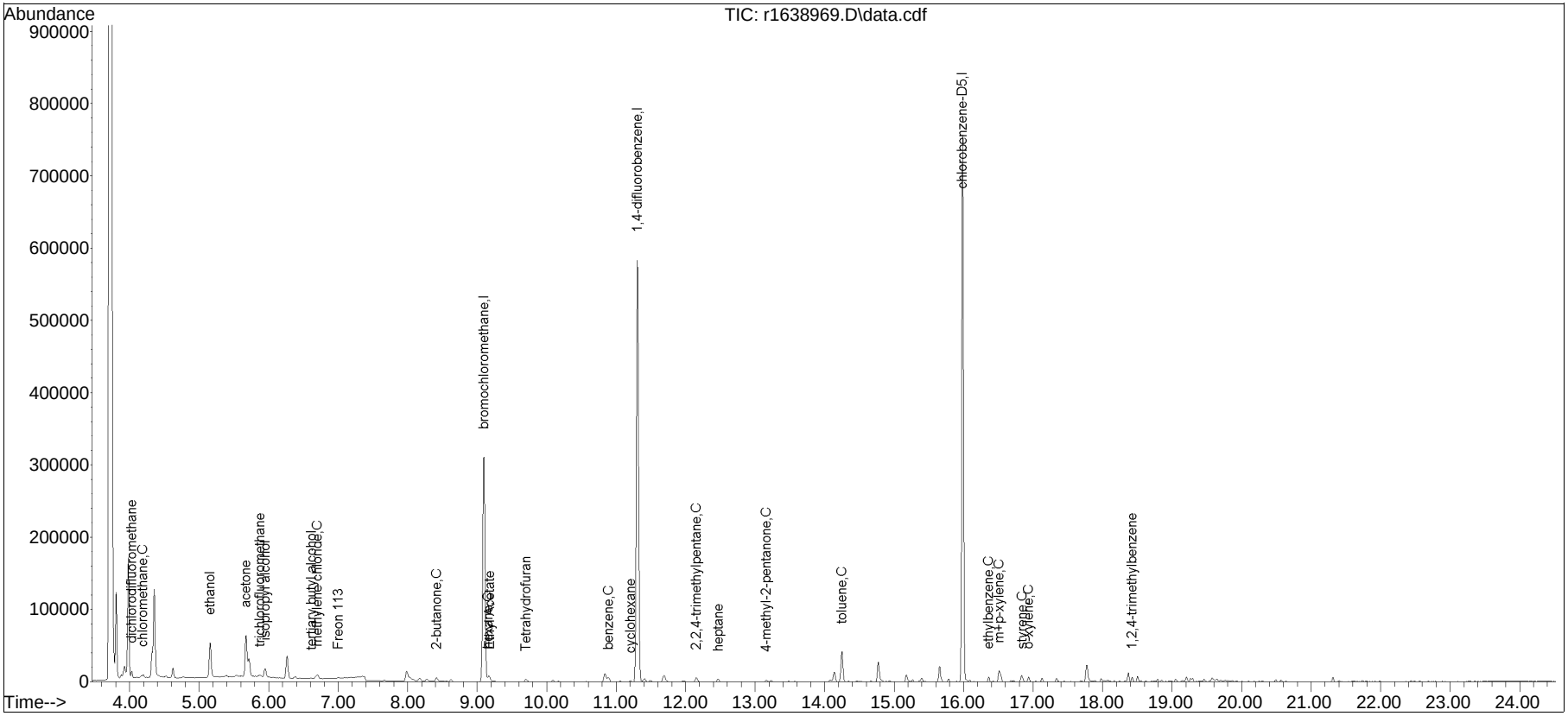
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.153	57	6426	0.121	ppbV	96
62) heptane	12.473	43	2062	0.082	ppbV #	82
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	2159	0.075	ppbV #	82
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	32702	0.744	ppbV	100
72) 2-hexanone	14.508		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.358	91	5012	0.091	ppbV	90
83) m+p-xylene	16.508	91	13250	0.306	ppbV	96
84) bromoform	0.000		0	N.D.		
85) styrene	16.842	104	1739	0.048	ppbV	94
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.933	91	4420	0.102	ppbV	99
96) 4-ethyl toluene	18.017		0	N.D.		
97) 1,3,5-trimethylbenzene	18.075		0	N.D.		
99) 1,2,4-trimethylbenzene	18.425	105	3583	0.071	ppbV #	55
101) Benzyl Chloride	18.425		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

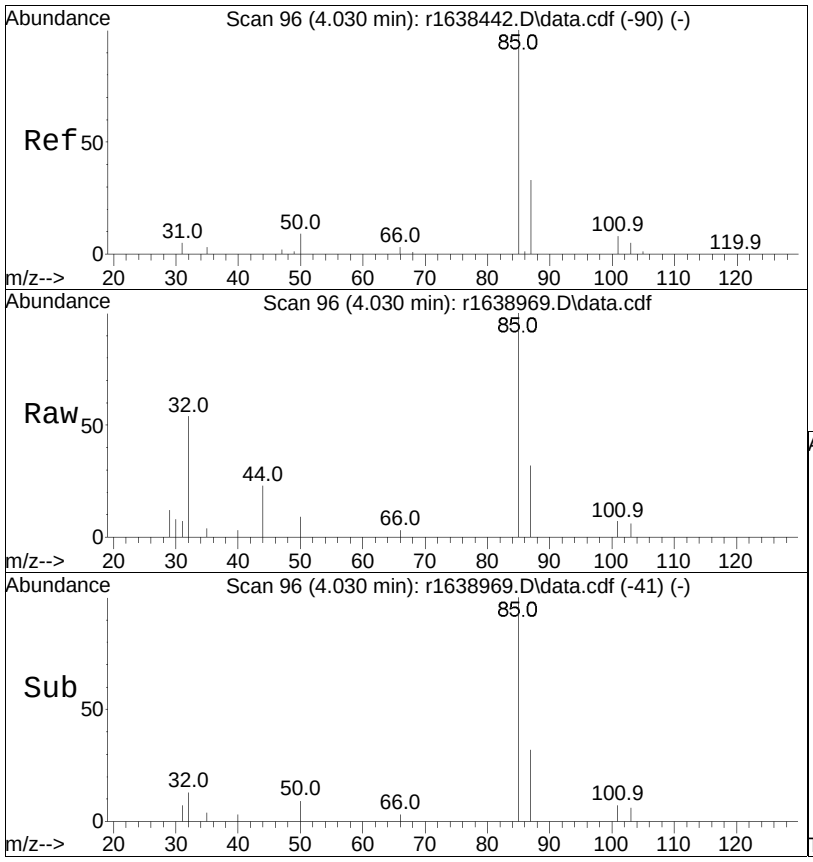
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638969.D
Acq On : 22 Aug 2023 11:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-09,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:24 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

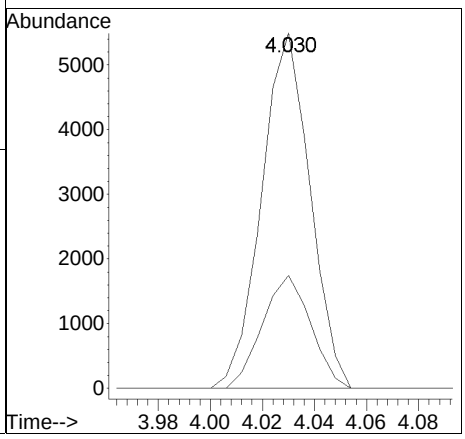


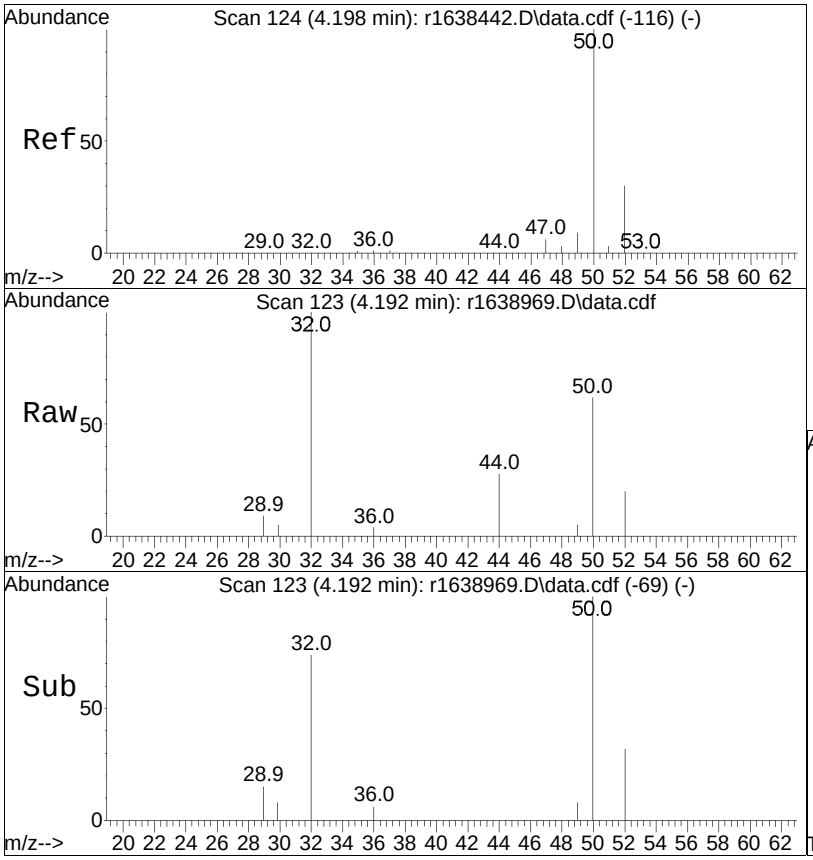


#5
dichlorodifluoromethane
Concen: 0.46 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 85 Resp: 7115

Ion	Ratio	Lower	Upper
85	100		
87	31.8	26.2	39.2

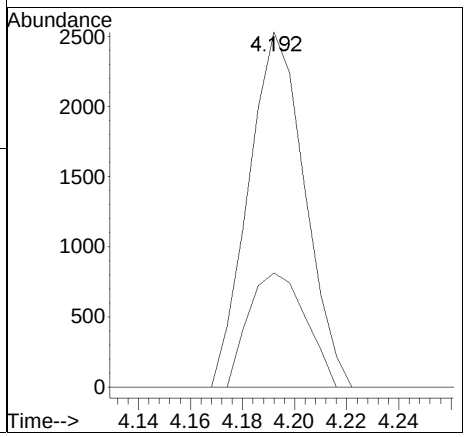


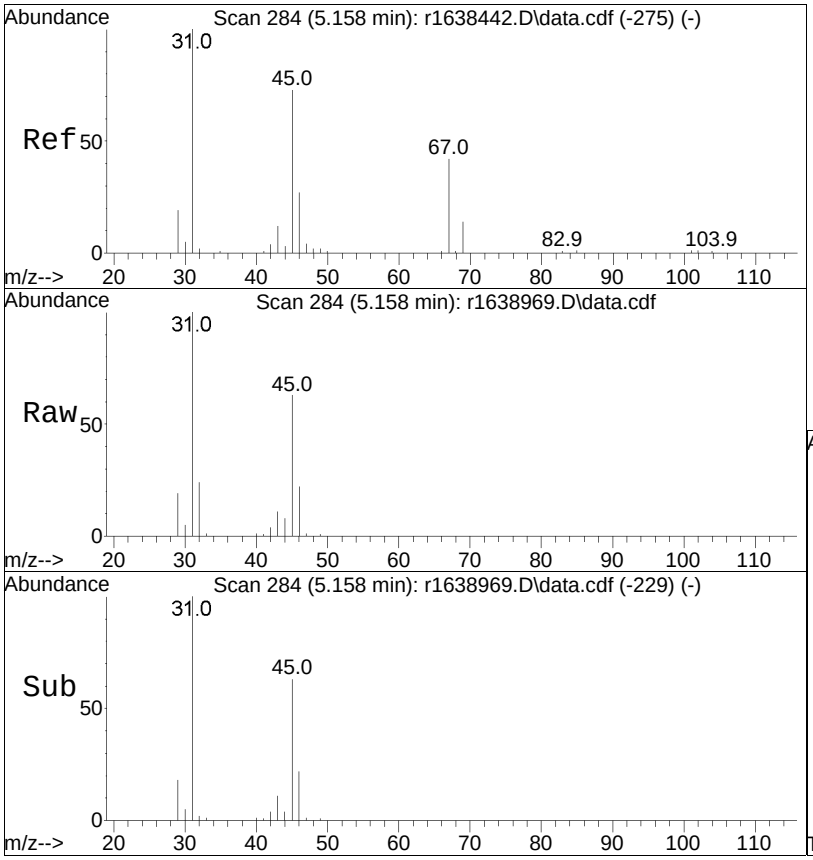


#6
chloromethane
Concen: 0.43 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 50 Resp: 3816

Ion	Ratio	Lower	Upper
50	100		
52	32.2	24.3	36.5

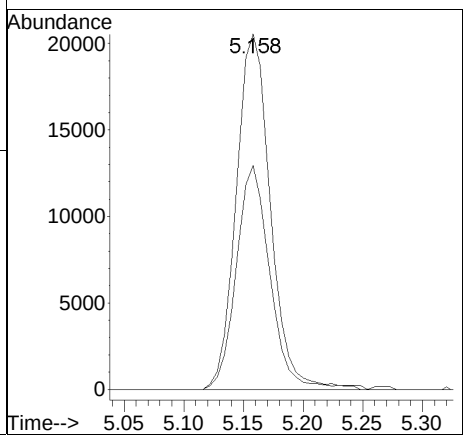


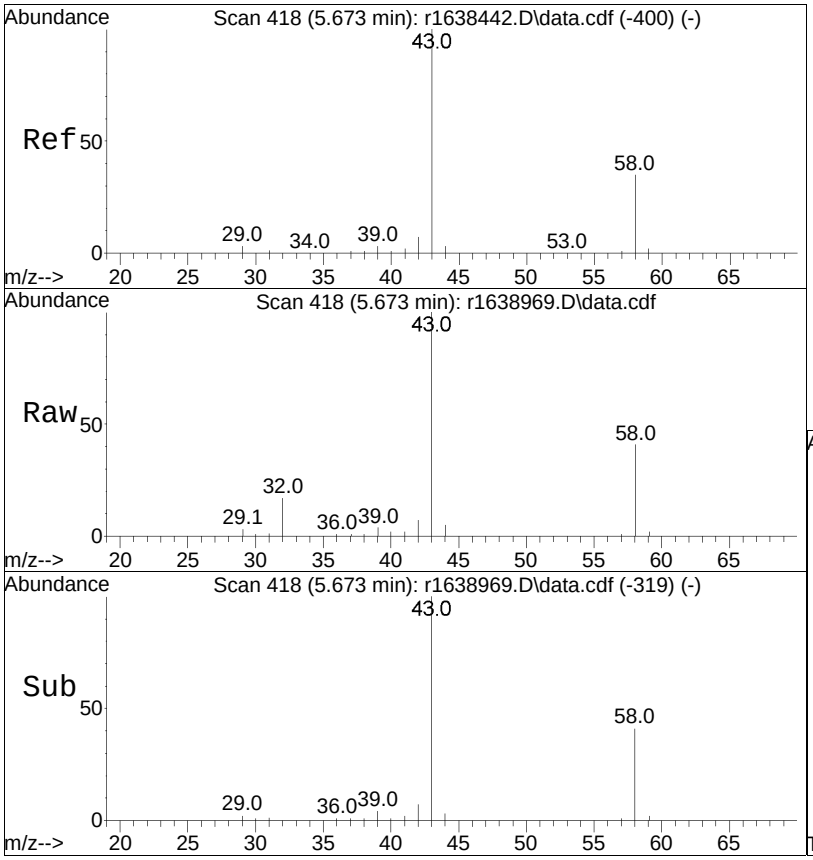


#15
ethanol
Concen: 7.38 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 31 Resp: 41068

Ion	Ratio	Lower	Upper
31	100		
45	63.0	58.6	87.8

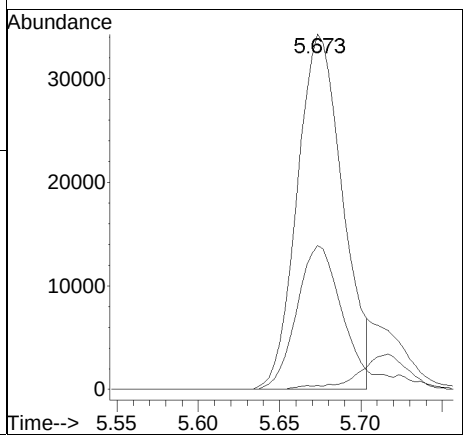


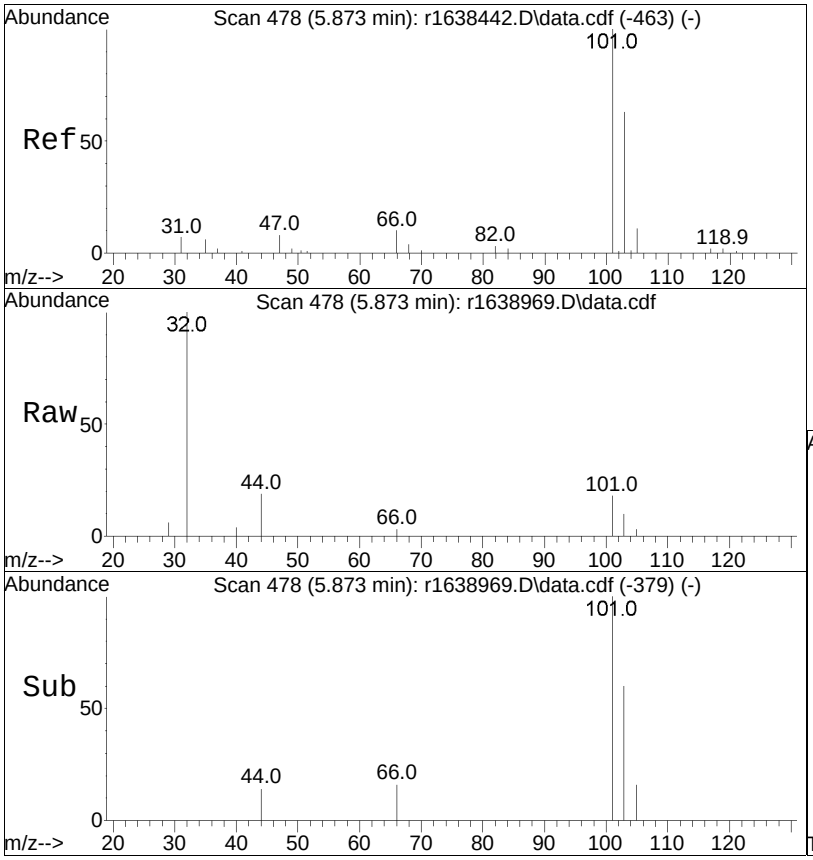


#19
acetone
Concen: 5.93 ppbV m
RT: 5.673 min Scan# 418
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 43 Resp: 66594

Ion	Ratio	Lower	Upper
43	100		
58	40.5	28.3	42.5
57	1.1	0.6	1.0#

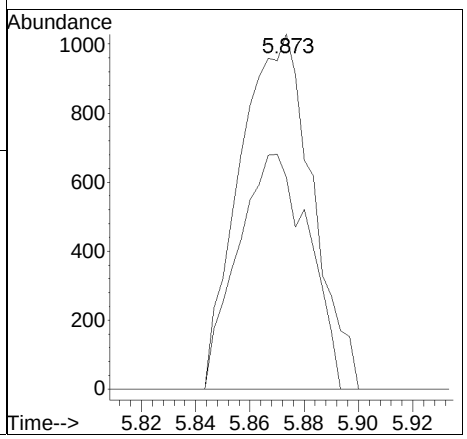


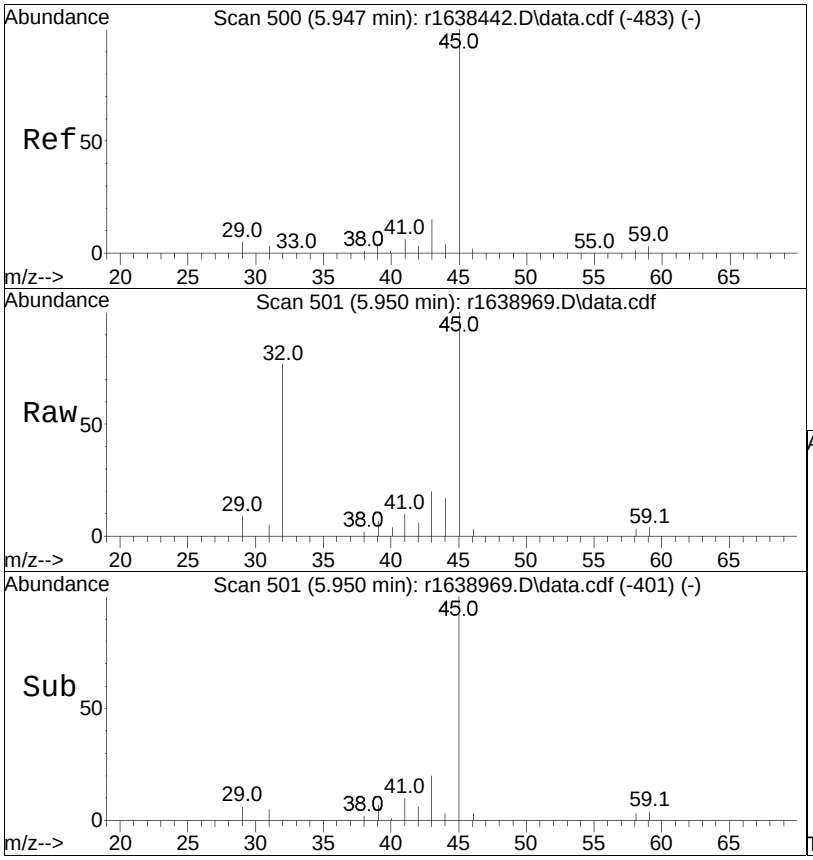


#21
trichlorofluoromethane
Concen: 0.17 ppbV
RT: 5.873 min Scan# 478
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:101 Resp: 1905

Ion	Ratio	Lower	Upper
101	100		
103	59.8	50.6	76.0

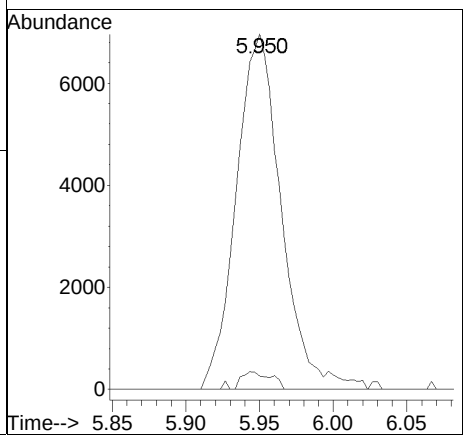


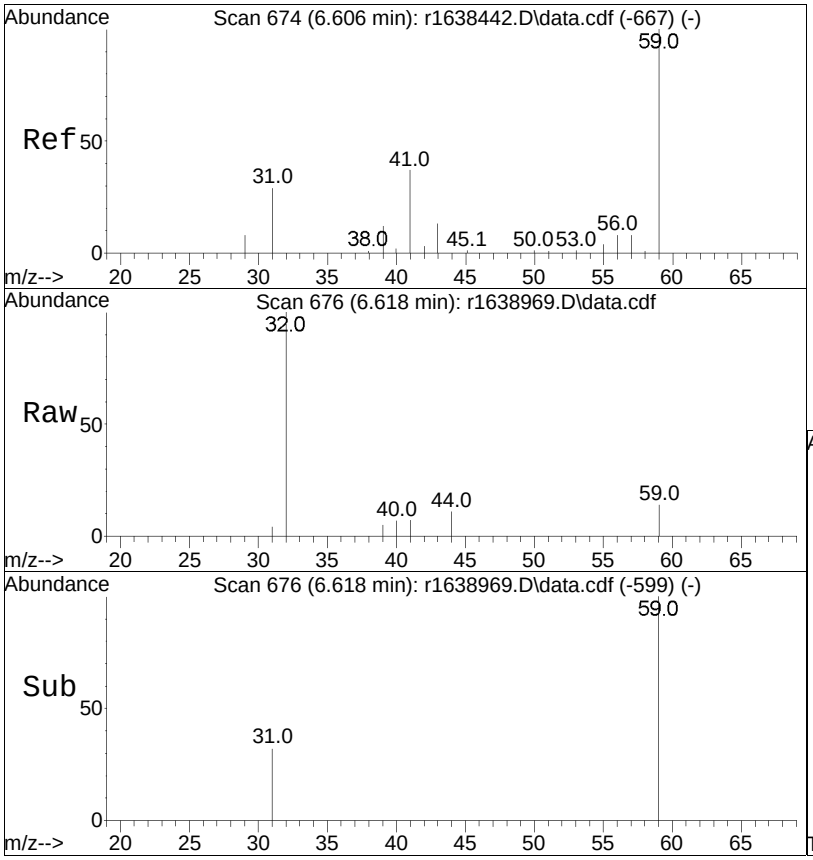


#22
isopropyl alcohol
Concen: 0.92 ppbV
RT: 5.950 min Scan# 501
Delta R.T. 0.003 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 45 Resp: 14870

Ion	Ratio	Lower	Upper
45	100		
59	3.8	2.8	4.2

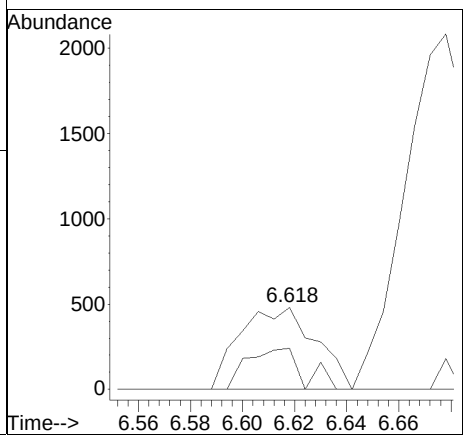


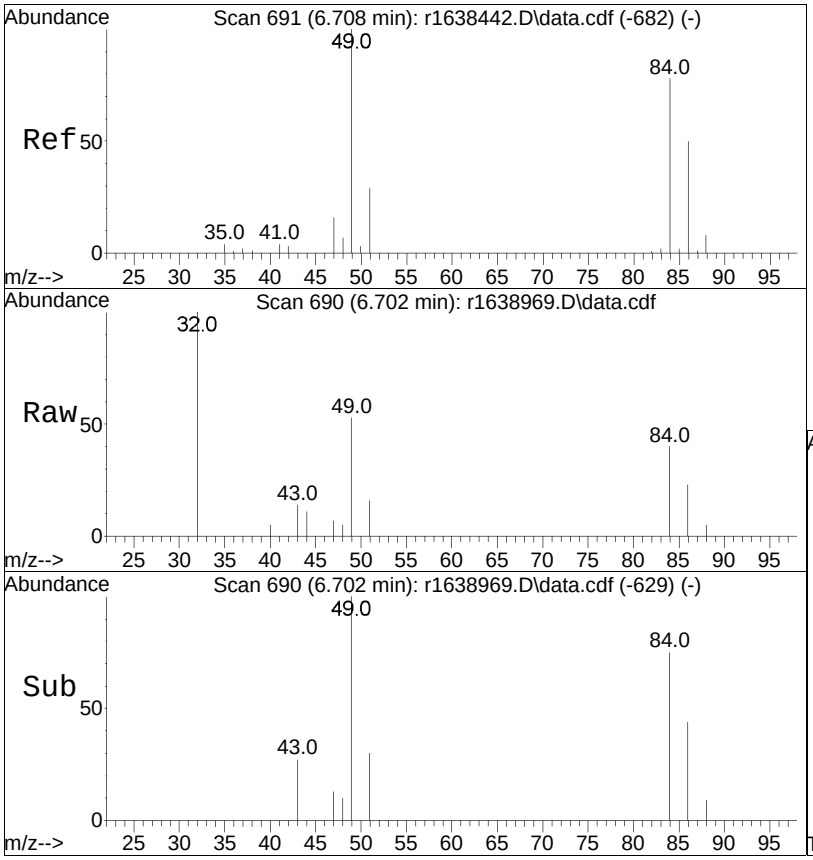


#27
tertiary butyl alcohol
Concen: 0.06 ppbV
RT: 6.618 min Scan# 676
Delta R.T. 0.012 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 59 Resp: 969

Ion	Ratio	Lower	Upper
59	100		
41	50.2	29.3	43.9#
43	0.0	10.1	15.1#

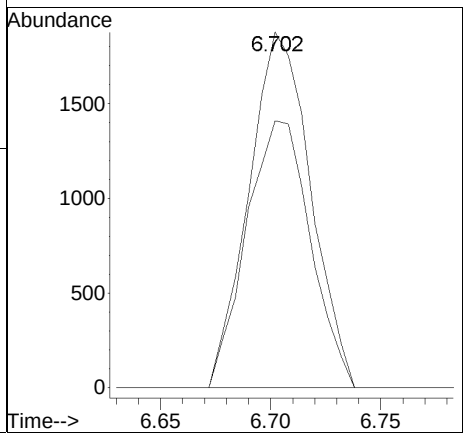


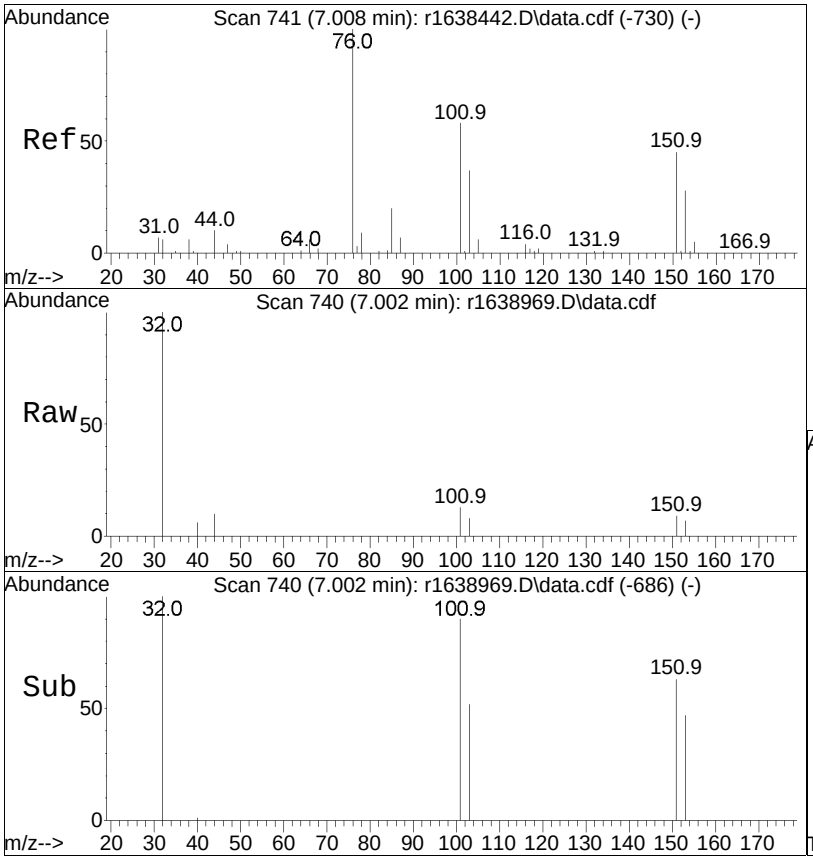


#28
methylene chloride
Concen: 0.30 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 49 Resp: 3658

Ion	Ratio	Lower	Upper
49	100		
84	75.0	62.4	93.6

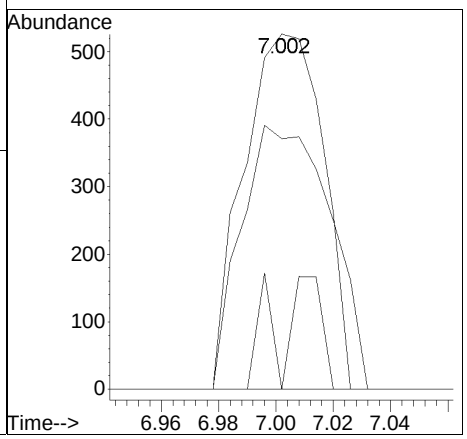


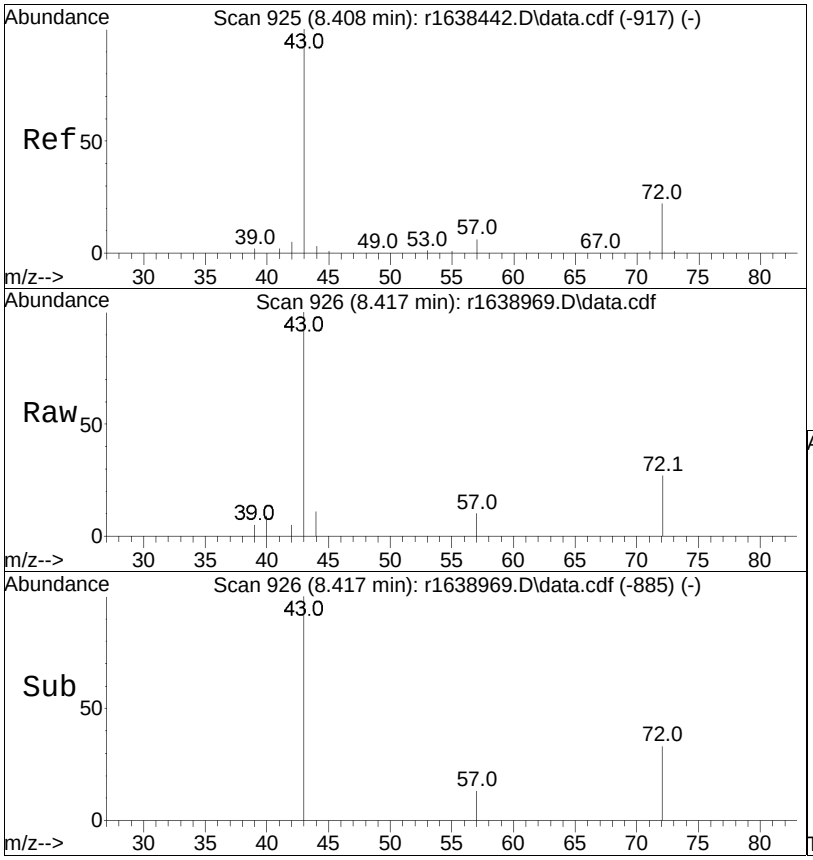


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:101 Resp: 1017

Ion	Ratio	Lower	Upper
101	100		
85	0.0	27.8	41.6#
151	70.5	62.2	93.4

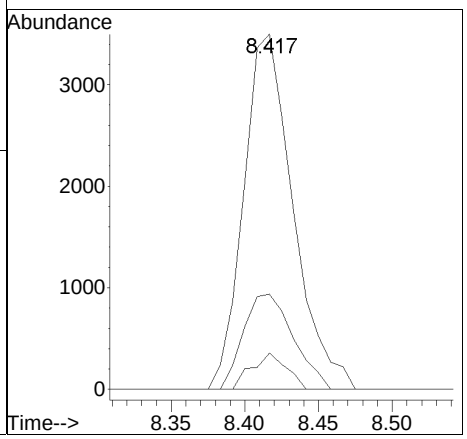


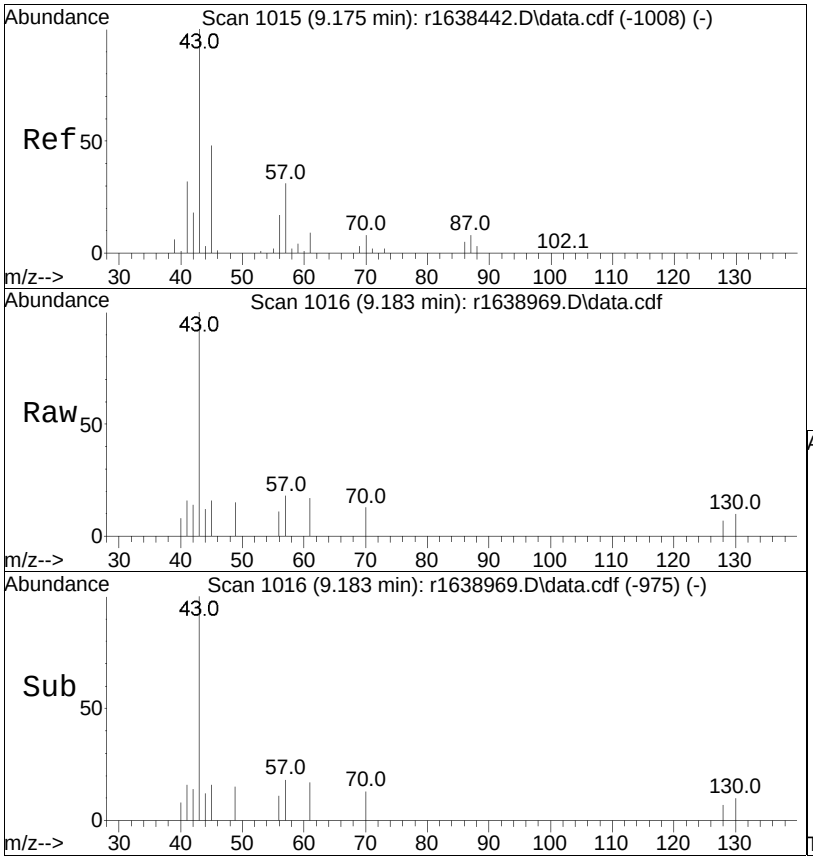


#36
2-butanone
Concen: 0.31 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 43 Resp: 8165

Ion	Ratio	Lower	Upper
43	100		
72	26.8	17.4	26.0#
57	10.2	4.8	7.2#

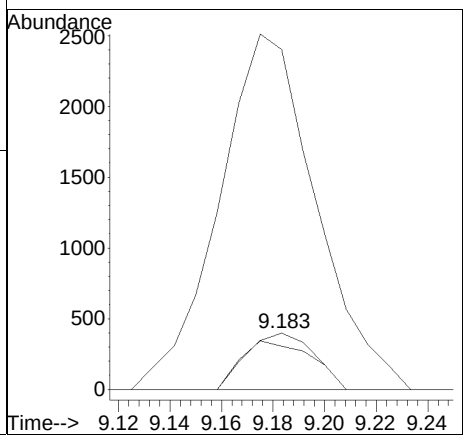


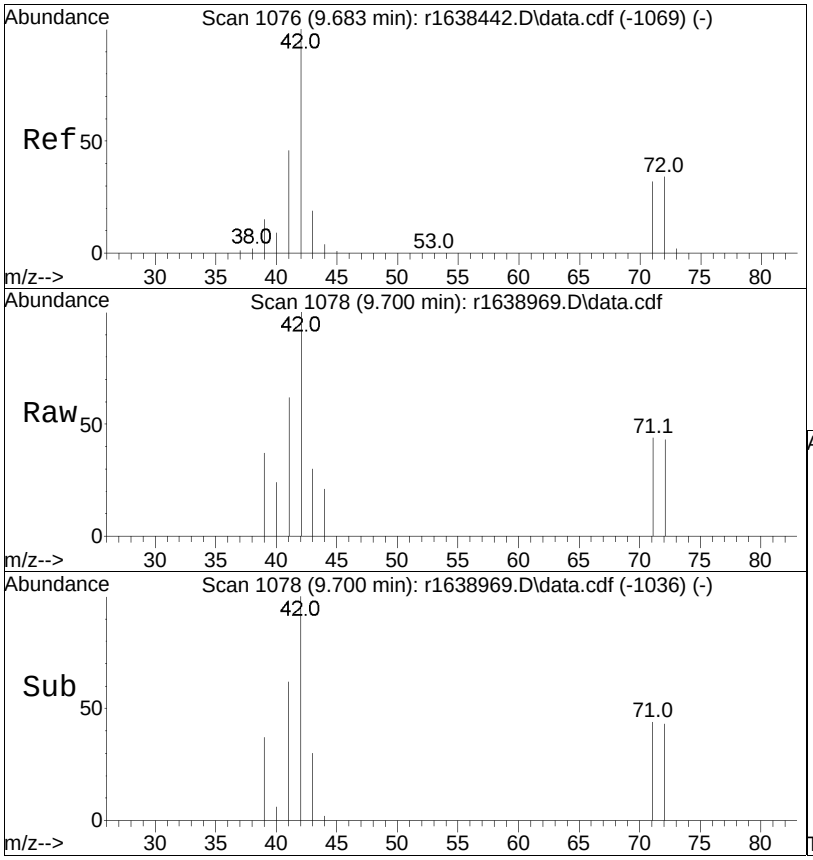


#38
Ethyl Acetate
Concen: 0.19 ppbV
RT: 9.183 min Scan# 1016
Delta R.T. 0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 61 Resp: 723

Ion	Ratio	Lower	Upper
61	100		
70	76.9	74.6	112.0
43	603.3	942.0	1413.0#

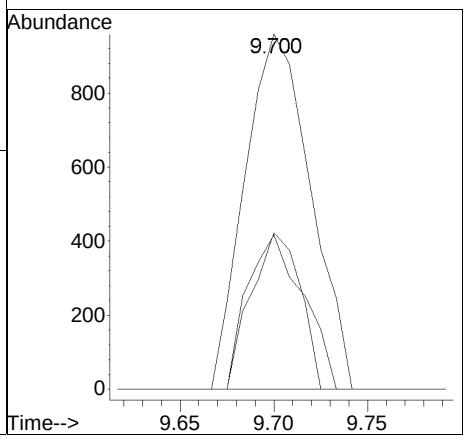


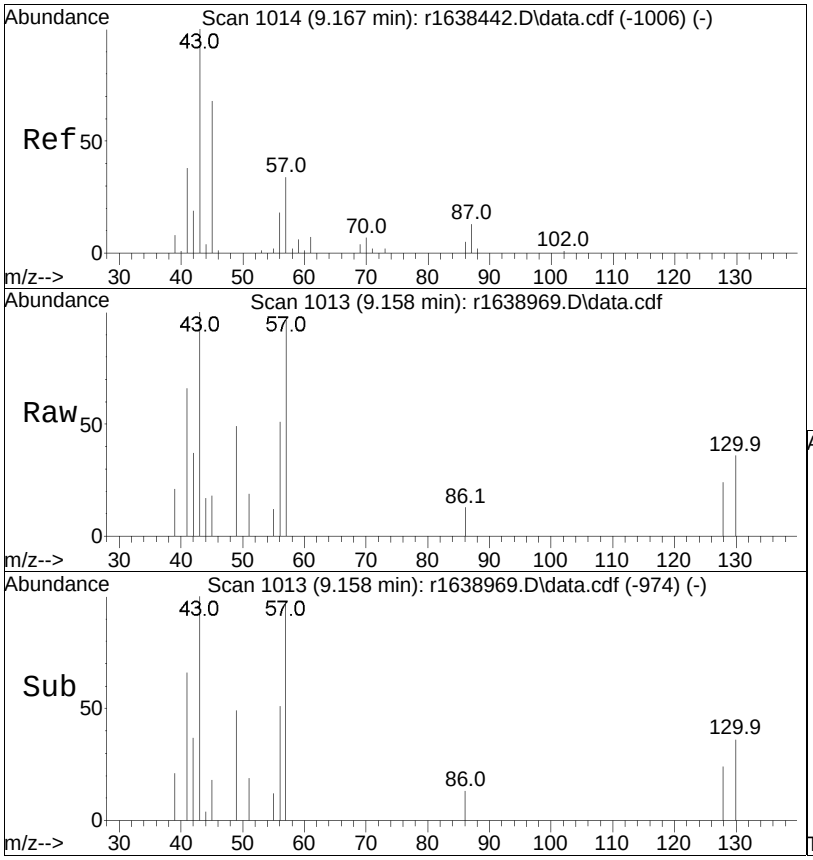


#40
Tetrahydrofuran
Concen: 0.14 ppbV
RT: 9.700 min Scan# 1078
Delta R.T. 0.017 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 42 Resp: 2336

Ion	Ratio	Lower	Upper
42	100		
71	44.1	25.6	38.4#
72	43.5	27.4	41.2#

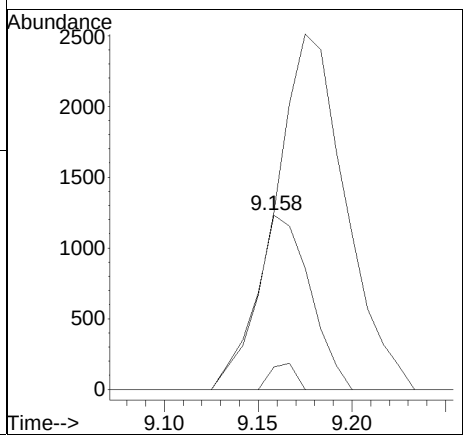


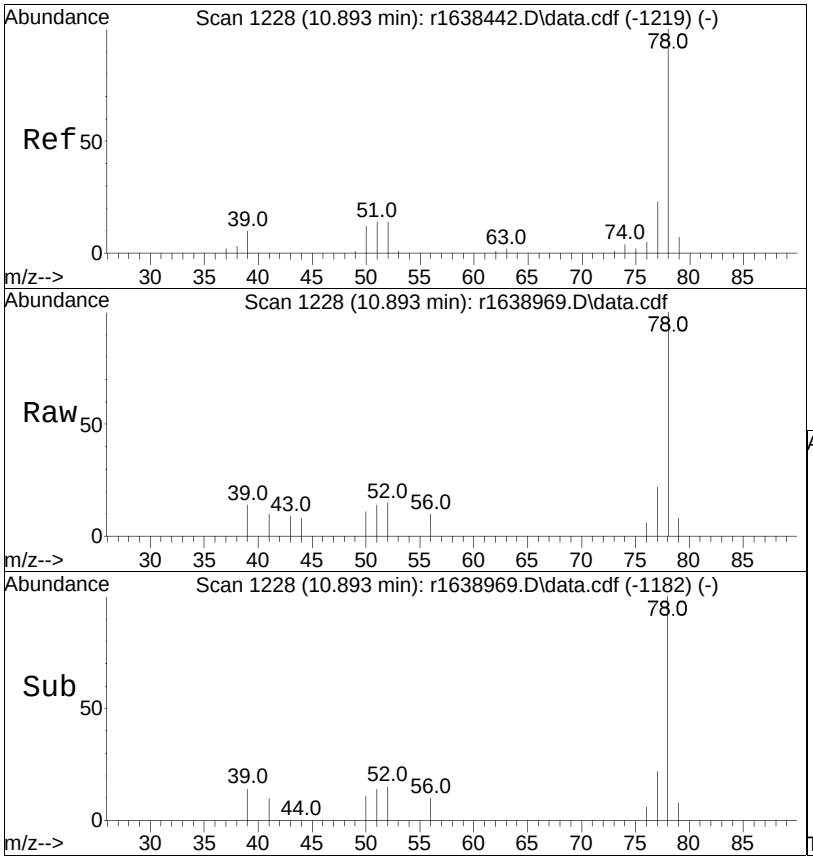


#44
hexane
Concen: 0.16 ppbV
RT: 9.158 min Scan# 1013
Delta R.T. -0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 57 Resp: 2519

Ion	Ratio	Lower	Upper
57	100		
43	101.9	233.1	349.7#
86	12.9	12.6	18.8

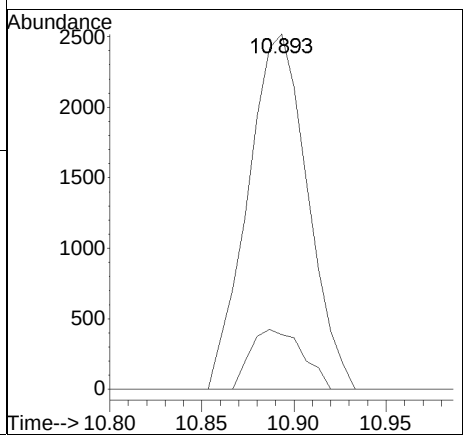


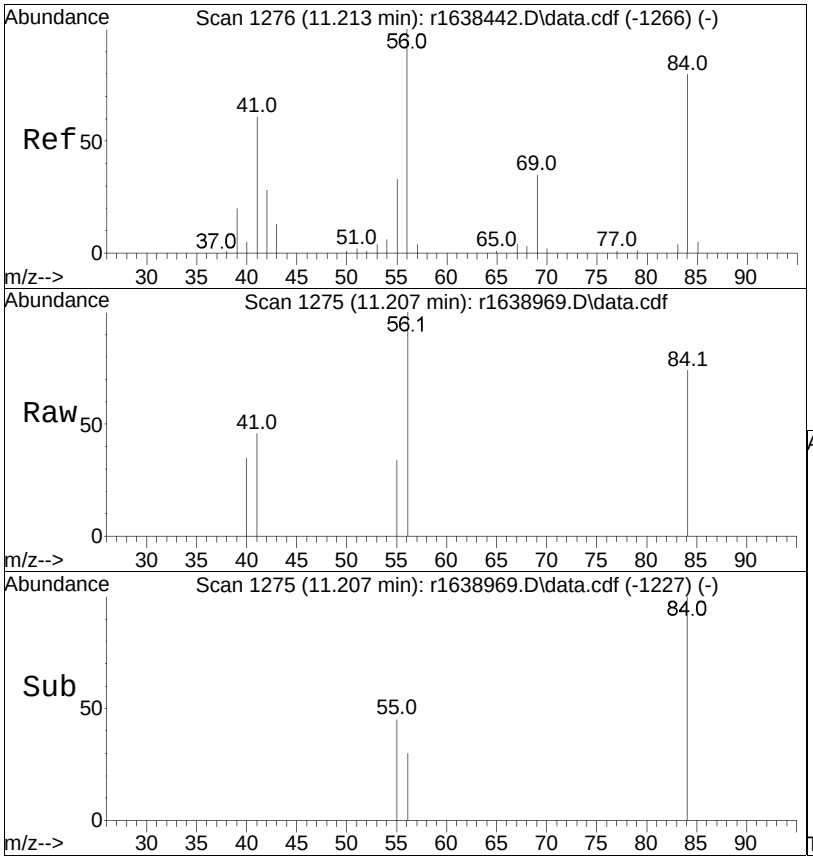


#50
benzene
Concen: 0.17 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 78 Resp: 5679

Ion	Ratio	Lower	Upper
78	100		
52	15.4	11.6	17.4

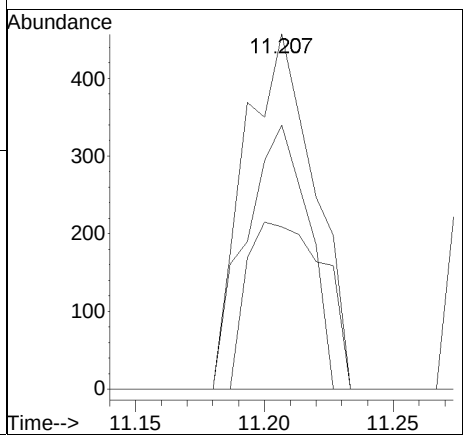


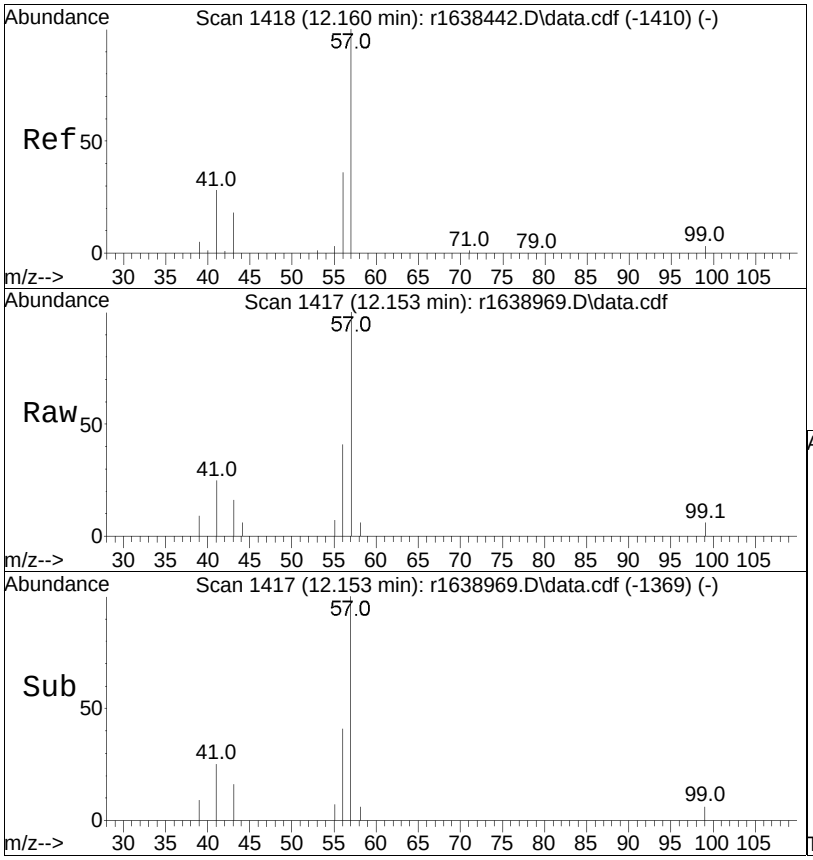


#53
cyclohexane
Concen: 0.05 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 56 Resp: 860

Ion	Ratio	Lower	Upper
56	100		
84	74.4	64.2	96.4
41	45.7	48.8	73.2#

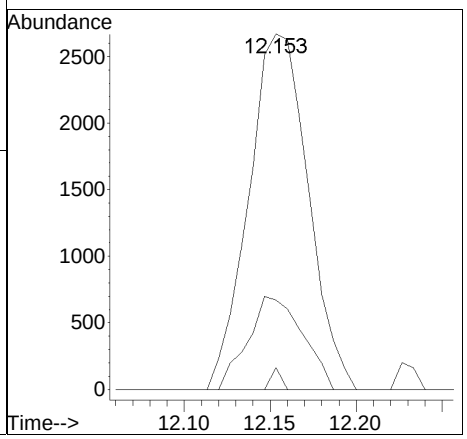


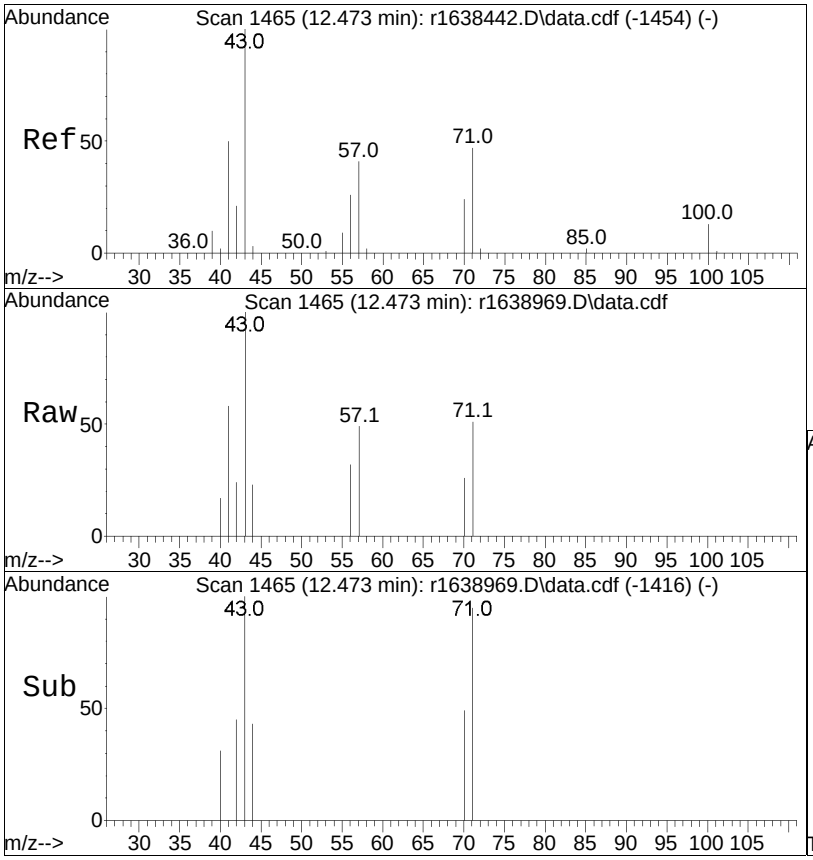


#60
2,2,4-trimethylpentane
Concen: 0.12 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 57 Resp: 6426

Ion	Ratio	Lower	Upper
57	100		
99	6.1	4.4	6.6
41	25.1	21.9	32.9

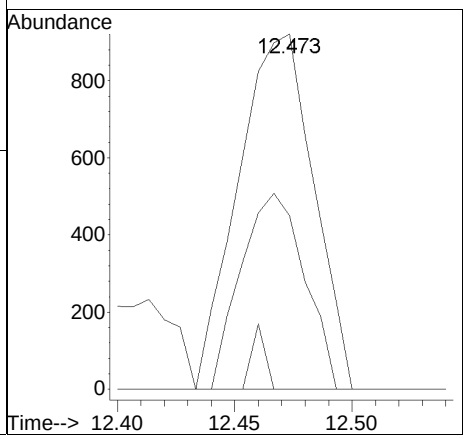


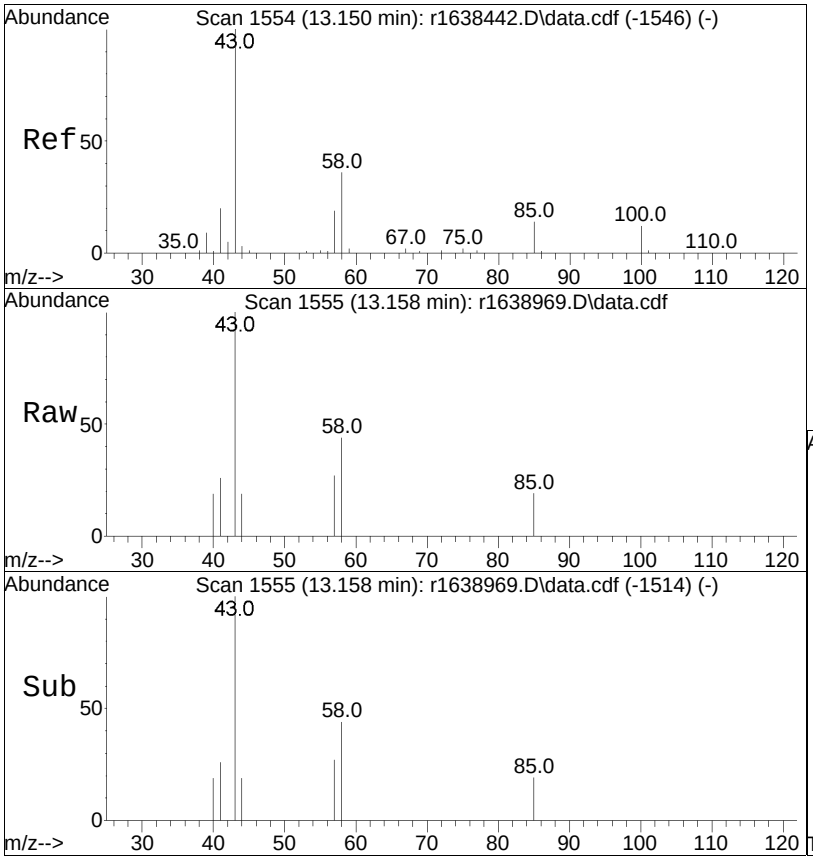


#62
heptane
Concen: 0.08 ppbV
RT: 12.473 min Scan# 1465
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 43 Resp: 2062

Ion	Ratio	Lower	Upper
43	100		
57	48.9	32.8	49.2
100	0.0	10.9	16.3#

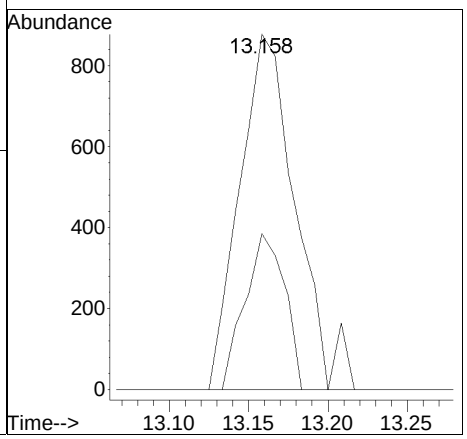


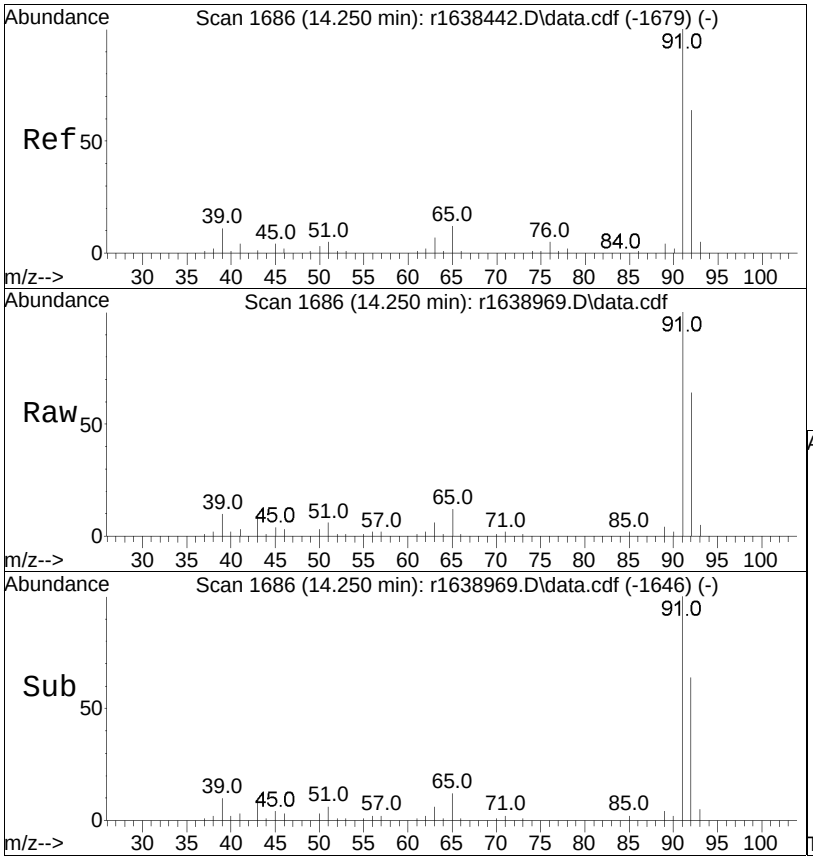


#64
4-methyl-2-pentanone
Concen: 0.07 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 43 Resp: 2159

Ion	Ratio	Lower	Upper
43	100		
58	43.8	28.6	43.0#
100	0.0	9.9	14.9#

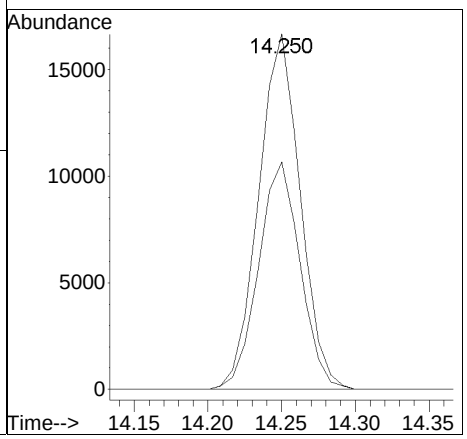


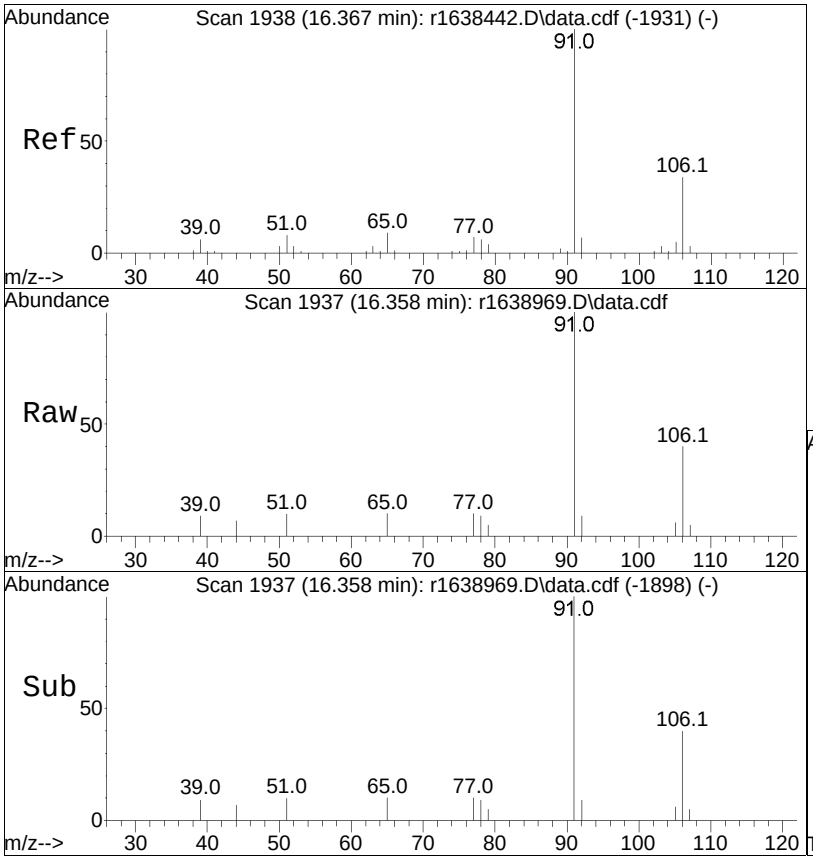


#68
toluene
Concen: 0.74 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 91 Resp: 32702

Ion	Ratio	Lower	Upper
91	100		
92	64.0	51.0	76.4

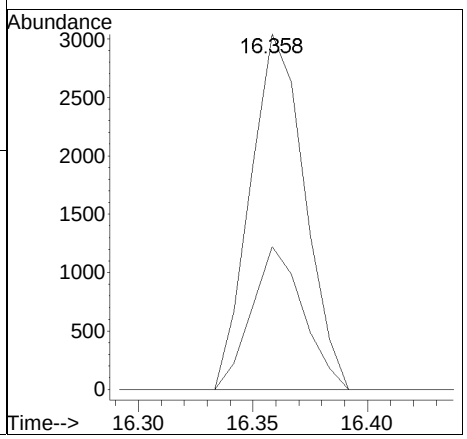


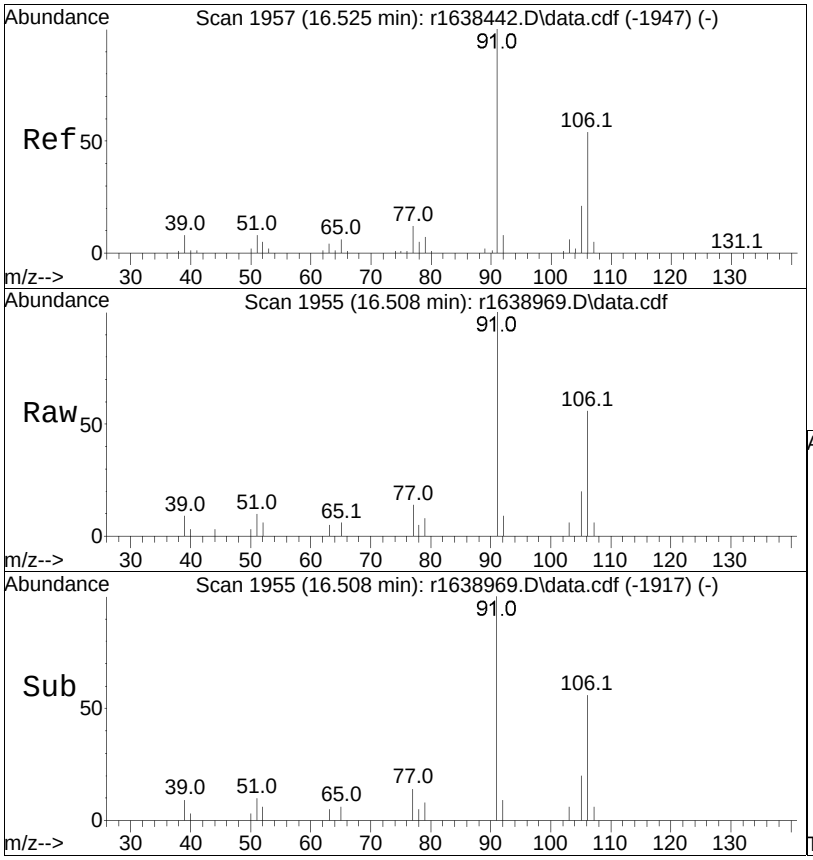


#81
ethylbenzene
Concen: 0.09 ppbV
RT: 16.358 min Scan# 1937
Delta R.T. -0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 91 Resp: 5012

Ion	Ratio	Lower	Upper
91	100		
106	40.2	27.4	41.2

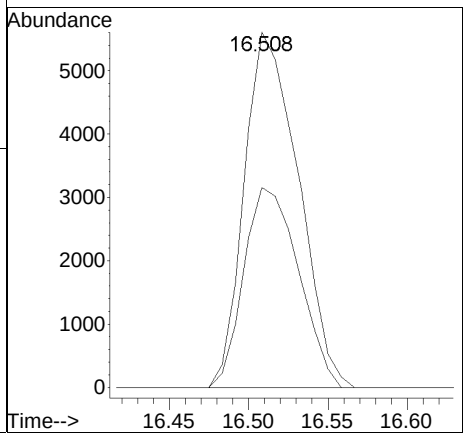


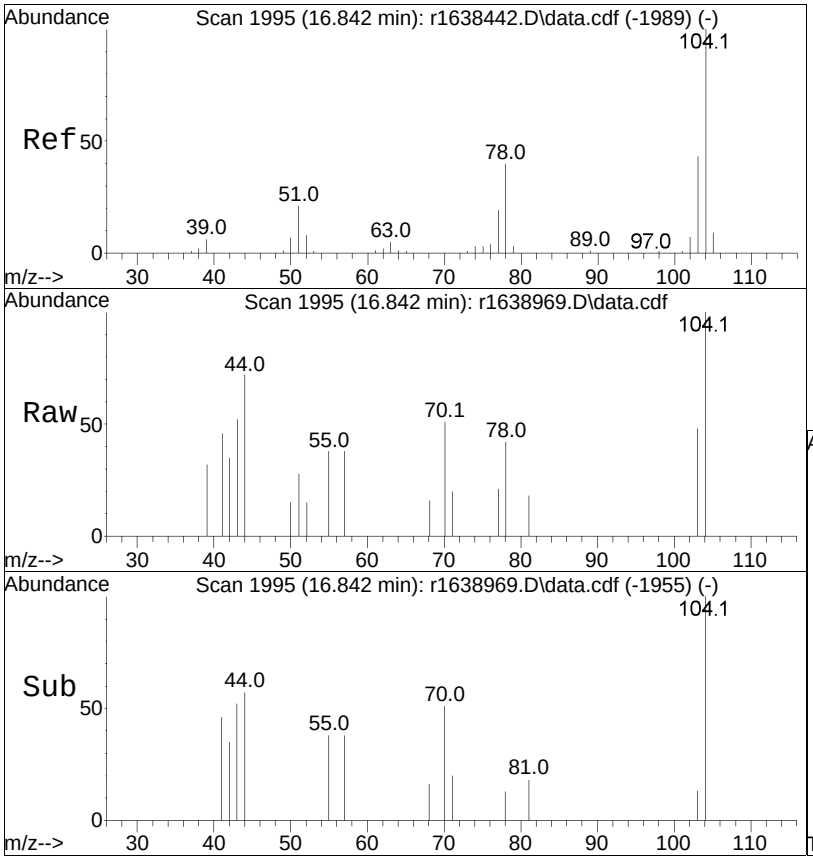


#83
m+p-xylene
Concen: 0.31 ppbV
RT: 16.508 min Scan# 1955
Delta R.T. -0.017 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 91 Resp: 13250

Ion	Ratio	Lower	Upper
91	100		
106	56.3	43.0	64.4

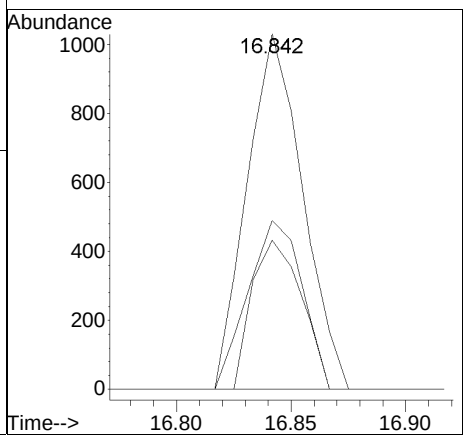


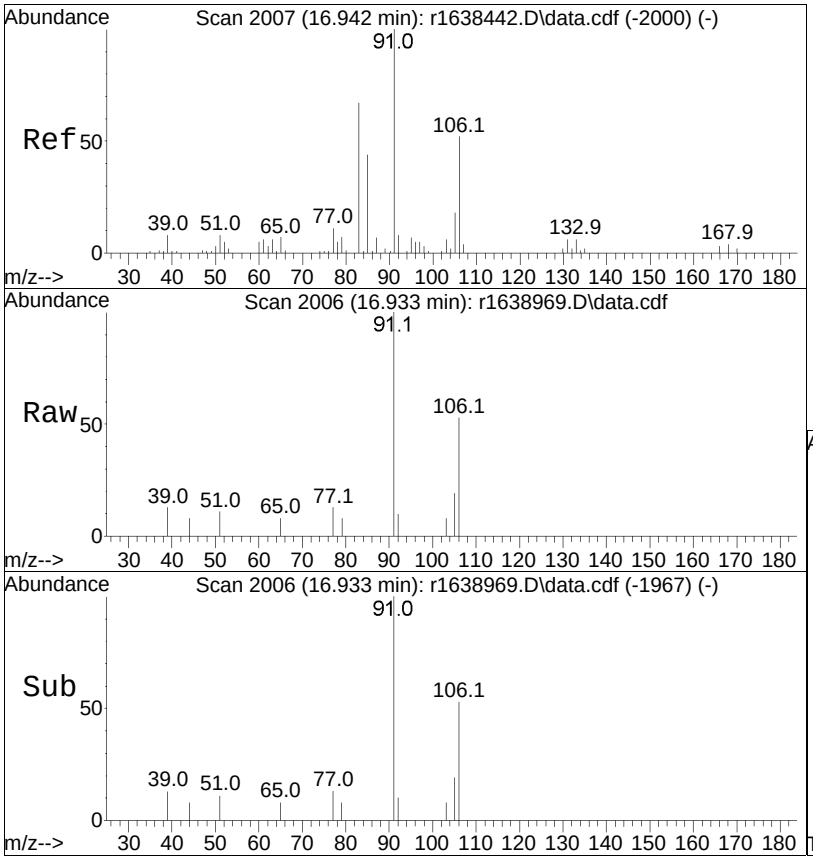


#85
styrene
Concen: 0.05 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:104 Resp: 1739

Ion	Ratio	Lower	Upper
104	100		
103	47.6	34.0	51.0
78	41.9	31.7	47.5

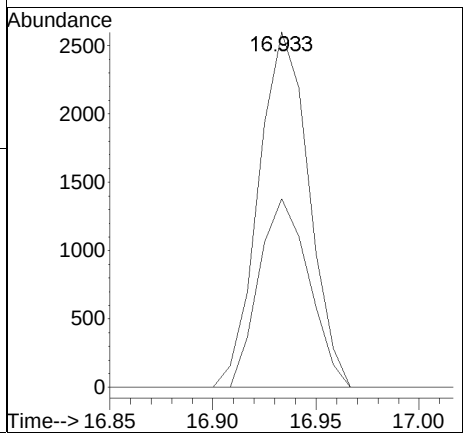


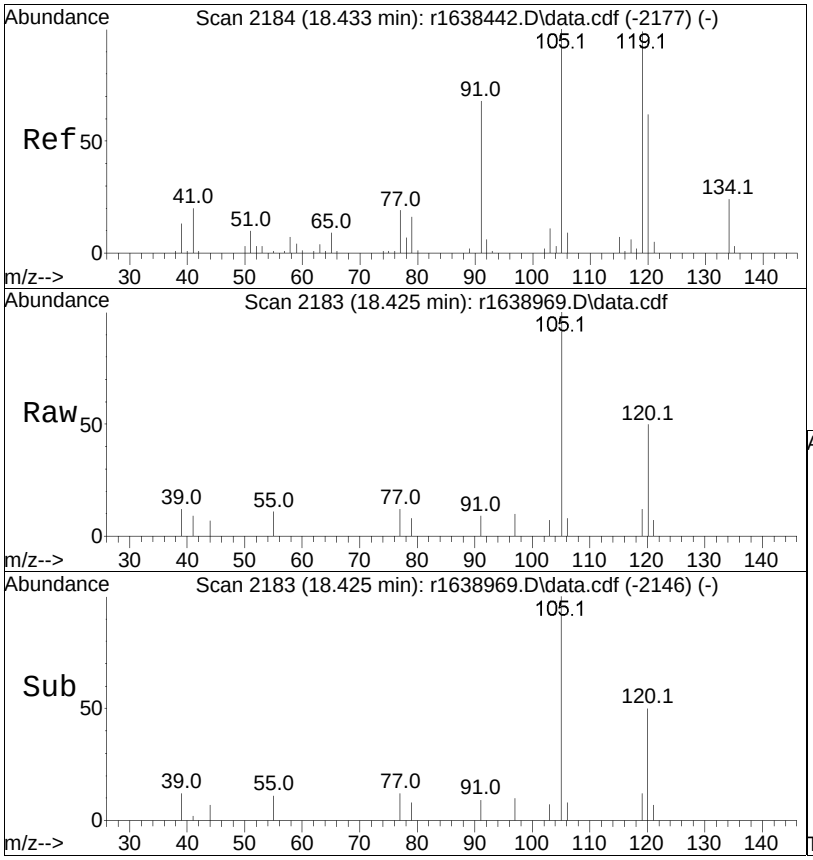


#87
o-xylene
Concen: 0.10 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion: 91 Resp: 4420

Ion	Ratio	Lower	Upper
91	100		
106	53.1	41.7	62.5

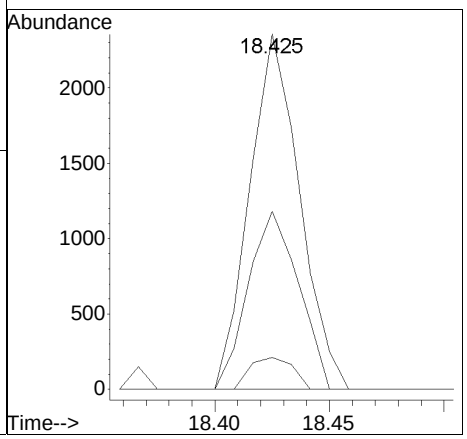




#99
1,2,4-trimethylbenzene
Concen: 0.07 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638969.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:105 Resp: 3583

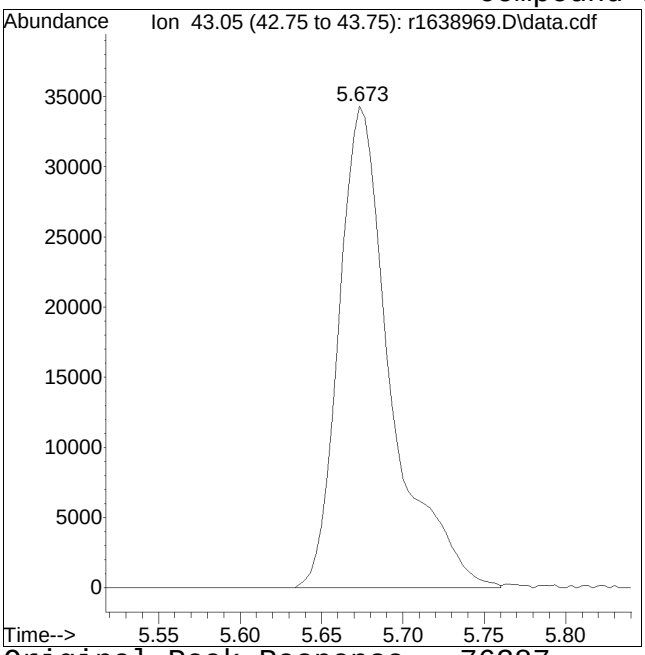
Ion	Ratio	Lower	Upper
105	100		
120	50.1	49.9	74.9
91	9.0	54.0	81.0#



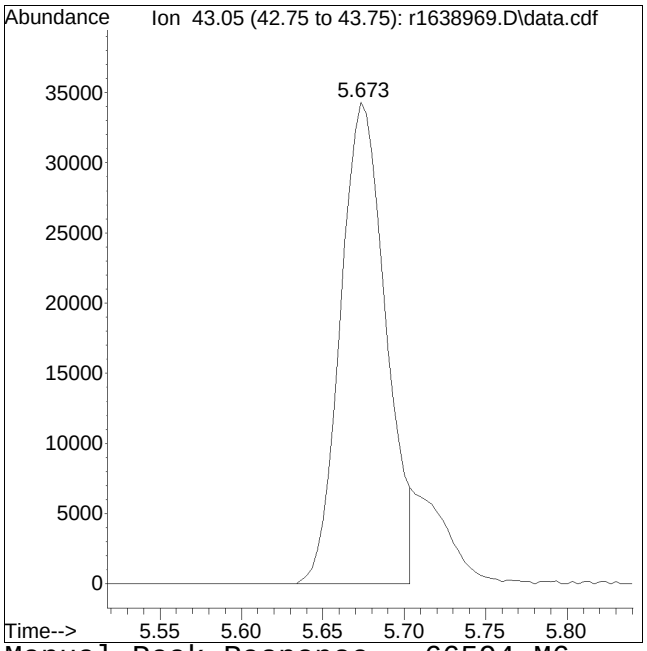
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638969.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:1: 9 Instrument :
Sample : L2347540-09,3,250,250 Quant Date : 8/23/2023 6:34 am

Compound #19: acetone



Original Peak Response = 76387



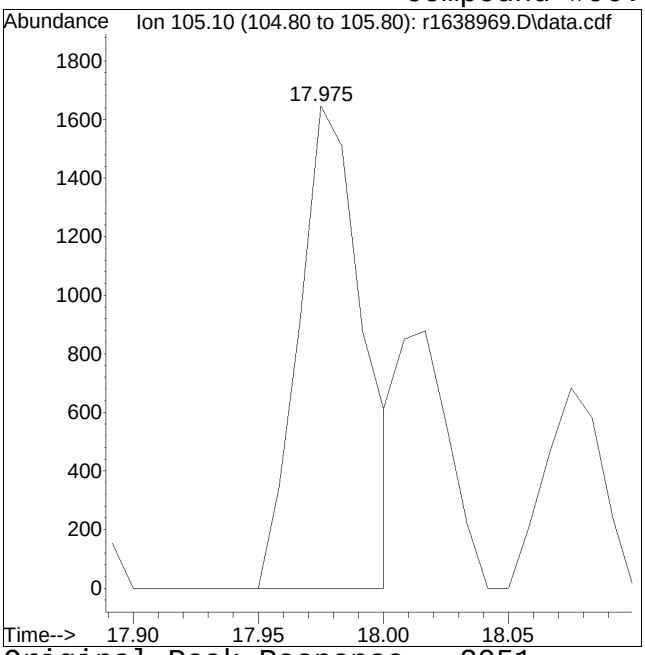
Manual Peak Response = 66594 M6

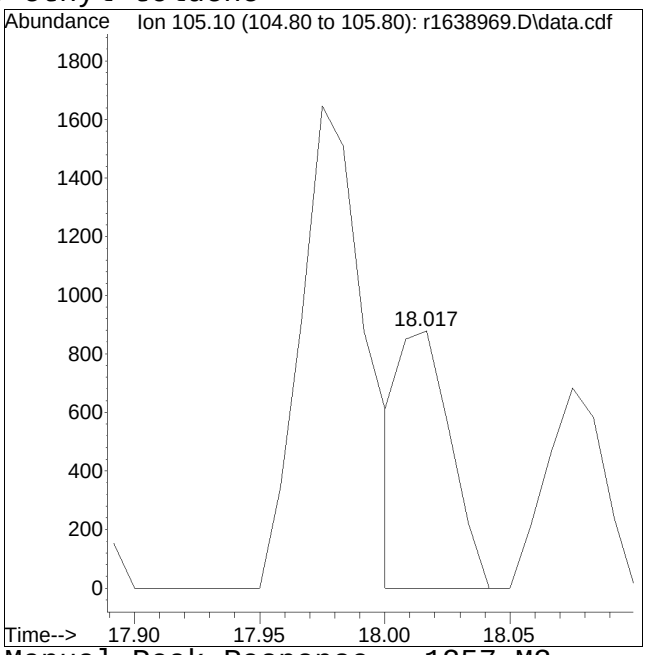
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638969.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:1: 9 Instrument :
Sample : L2347540-09,3,250,250 Quant Date : 8/23/2023 6:34 am

Compound #96: 4-ethyl toluene





Original Peak Response = 2951 Manual Peak Response = 1257 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638970.D
Acq On : 23 Aug 2023 12:29 AM
Operator : AIRLAB16:APR
Sample : L2347540-11,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:49 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	213291	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		99.55%	
43) 1,4-difluorobenzene	11.307	114	629449	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		94.29%	
67) chlorobenzene-D5	15.983	54	80159	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		97.09%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.024	85	7070	0.447	ppbV	95
6) chloromethane	4.192	50	4329	0.485	ppbV	93
7) Freon-114	4.306		0	N.D.		
10) 1,3-butadiene	4.564		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	358385	63.709	ppbV	86
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.670	43	110255M6	9.714	ppbV	
21) trichlorofluoromethane	5.867	101	1865	0.167	ppbV #	80
22) isopropyl alcohol	5.947	45	44415	2.706	ppbV #	95
27) tertiary butyl alcohol	6.606	59	2454	0.154	ppbV #	88
28) methylene chloride	6.702	49	4141	0.340	ppbV	99
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.996		0	N.D.		
31) Freon 113	7.002	101	986	0.049	ppbV	96
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.983	73	734	0.031	ppbV #	1
36) 2-butanone	8.408	43	28091	1.044	ppbV #	91
38) Ethyl Acetate	9.175	61	2313	0.596	ppbV	93
39) chloroform	9.250	83	610	0.036	ppbV #	78
40) Tetrahydrofuran	9.692	42	4402	0.258	ppbV	97
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	35221	2.127	ppbV #	4
50) benzene	10.893	78	6250	0.184	ppbV	93
53) cyclohexane	11.207	56	1088	0.062	ppbV	93
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638970.D
Acq On : 23 Aug 2023 12:29 AM
Operator : AIRLAB16:APR
Sample : L2347540-11,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:49 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

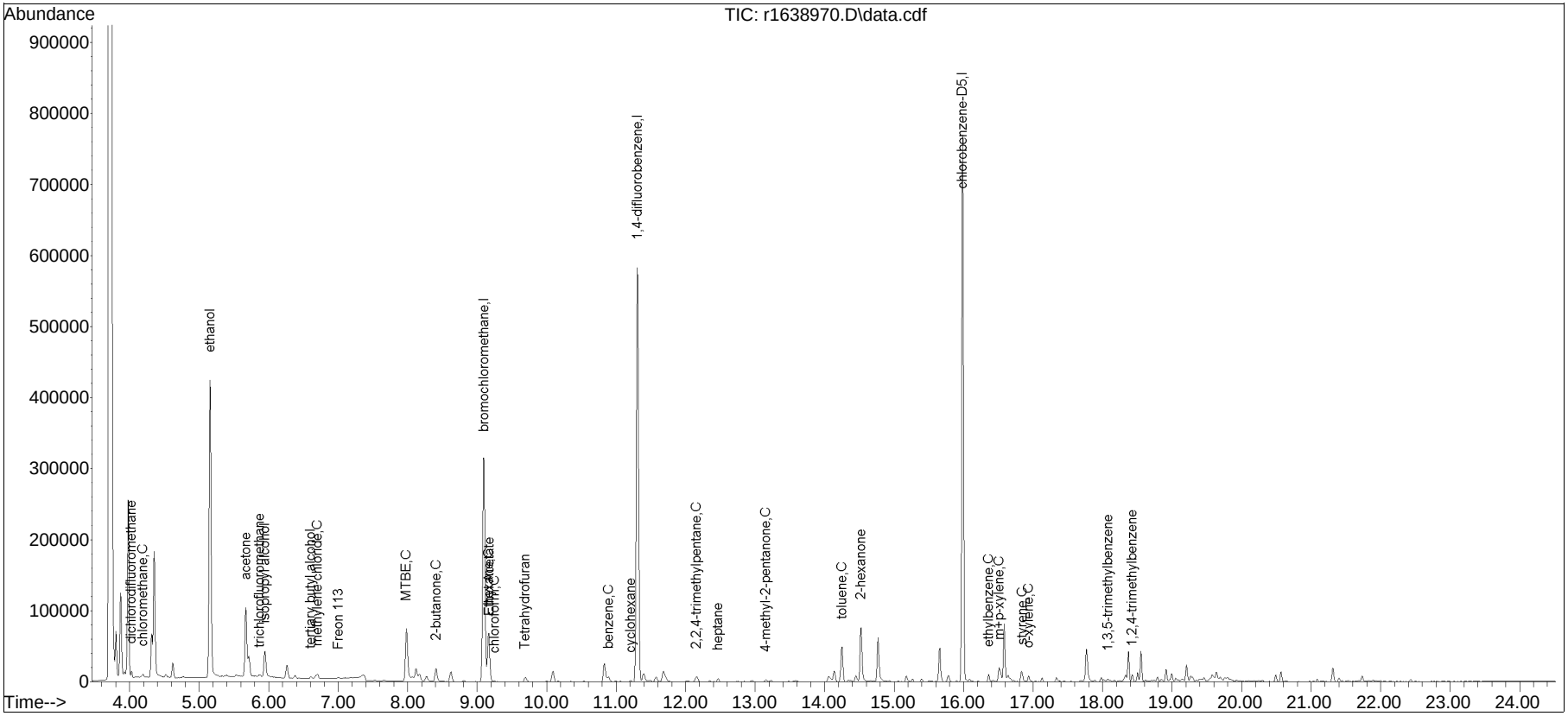
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.			
58)	1,4-dioxane	0.000		0	N.D.			
60)	2,2,4-trimethylpentane	12.153	57	7208	0.133	ppbV		97
62)	heptane	12.467	43	2582	0.101	ppbV	#	92
63)	cis-1,3-dichloropropene	0.000		0	N.D.			
64)	4-methyl-2-pentanone	13.150	43	2667	0.090	ppbV	#	89
65)	trans-1,3-dichloropropene	0.000		0	N.D.			
66)	1,1,2-trichloroethane	0.000		0	N.D.			
68)	toluene	14.250	91	39153	0.868	ppbV		96
72)	2-hexanone	14.525	43	61892	2.110	ppbV		91
74)	dibromochloromethane	0.000		0	N.D.			
75)	1,2-dibromoethane	0.000		0	N.D.			
80)	chlorobenzene	0.000		0	N.D.			
81)	ethylbenzene	16.358	91	5586	0.099	ppbV		90
83)	m+p-xylene	16.508	91	15920	0.358	ppbV		94
84)	bromoform	0.000		0	N.D.			
85)	styrene	16.842	104	3845	0.104	ppbV		96
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.			
87)	o-xylene	16.933	91	5279	0.119	ppbV		92
96)	4-ethyl toluene	18.008		0	N.D.			
97)	1,3,5-trimethylbenzene	18.075	105	1821	0.034	ppbV	#	93
99)	1,2,4-trimethylbenzene	18.425	105	5633	0.109	ppbV	#	57
101)	Benzyl Chloride	18.425		0	N.D.			
102)	1,3-dichlorobenzene	18.617		0	N.D.			
103)	1,4-dichlorobenzene	18.617		0	N.D.			
107)	1,2-dichlorobenzene	0.000		0	N.D.			
115)	1,2,4-trichlorobenzene	0.000		0	N.D.			
119)	hexachlorobutadiene	0.000		0	N.D.			

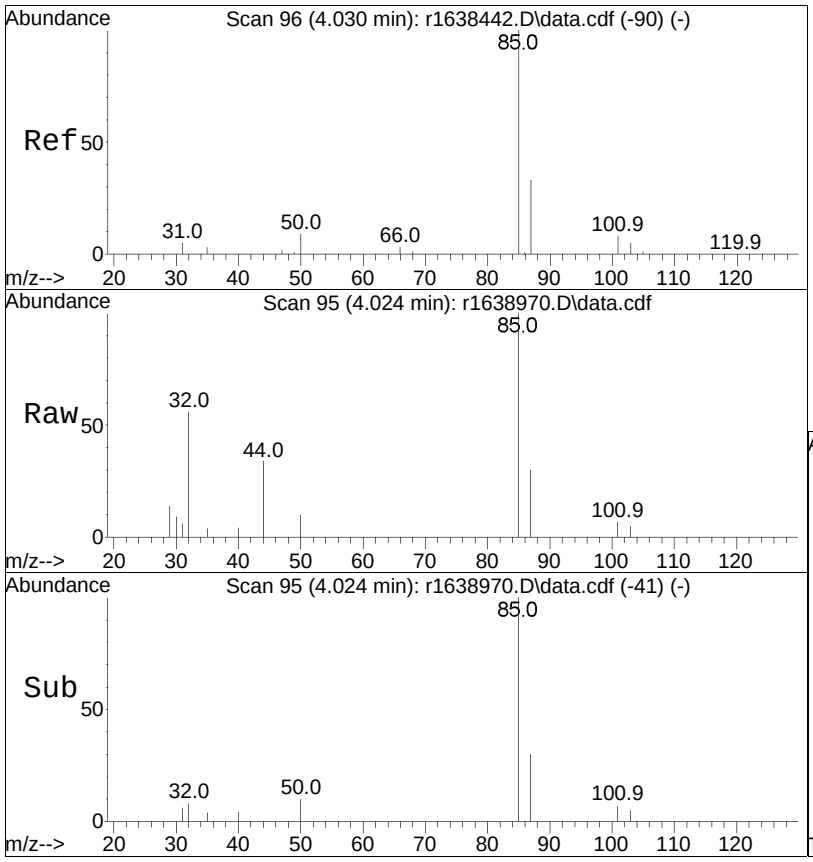
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638970.D
Acq On : 23 Aug 2023 12:29 AM
Operator : AIRLAB16:APR
Sample : L2347540-11,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:34:49 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

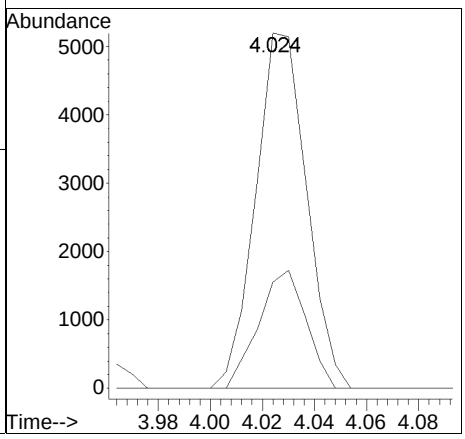


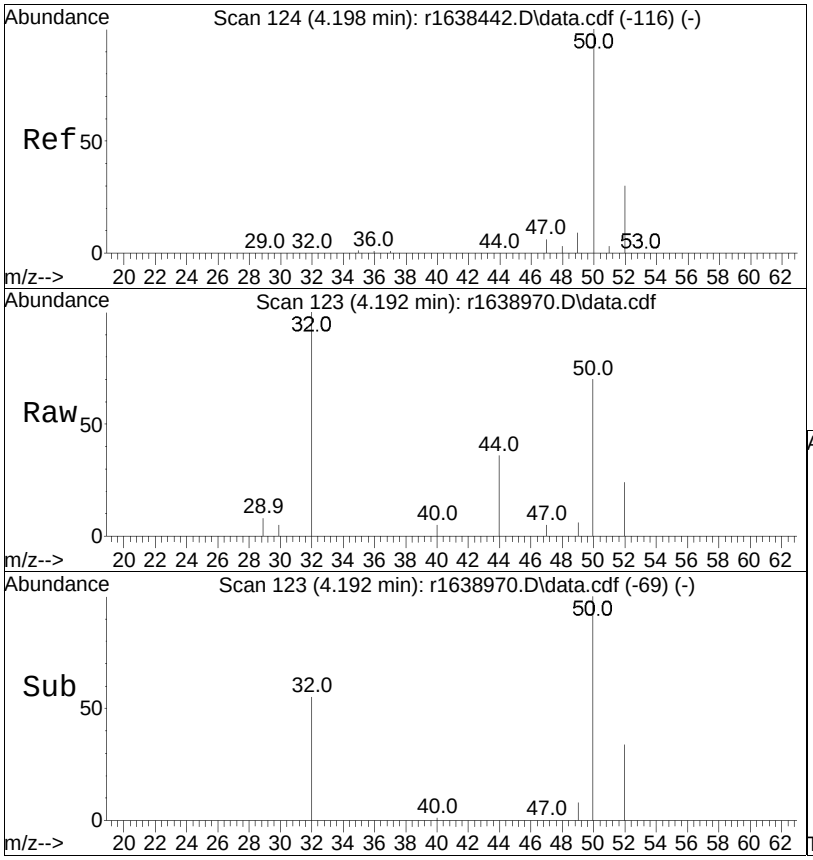


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.024 min Scan# 95
Delta R.T. -0.006 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 85 Resp: 7070

Ion	Ratio	Lower	Upper
85	100		
87	29.9	26.2	39.2

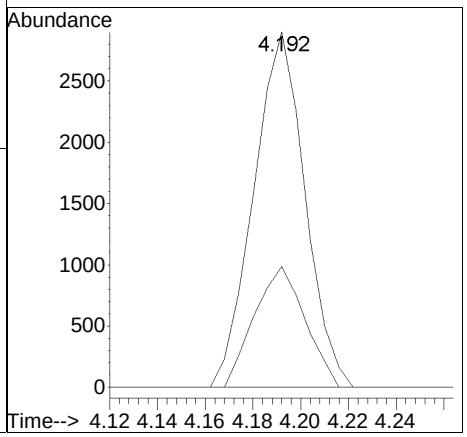


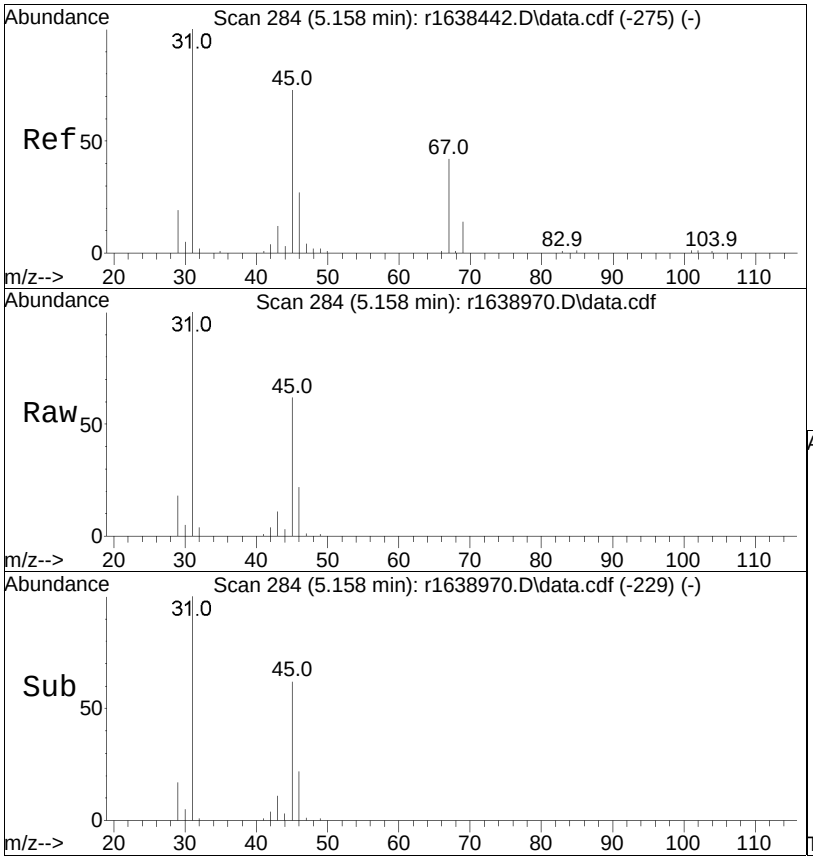


#6
chloromethane
Concen: 0.49 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 50 Resp: 4329

Ion	Ratio	Lower	Upper
50	100		
52	34.0	24.3	36.5

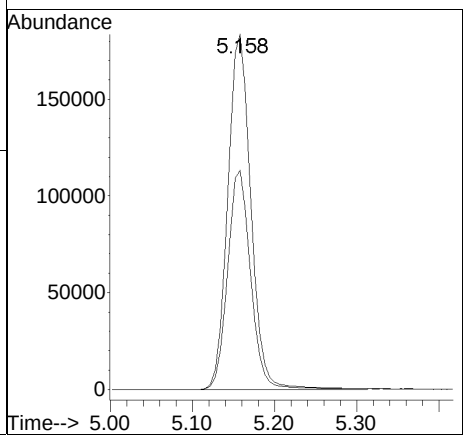


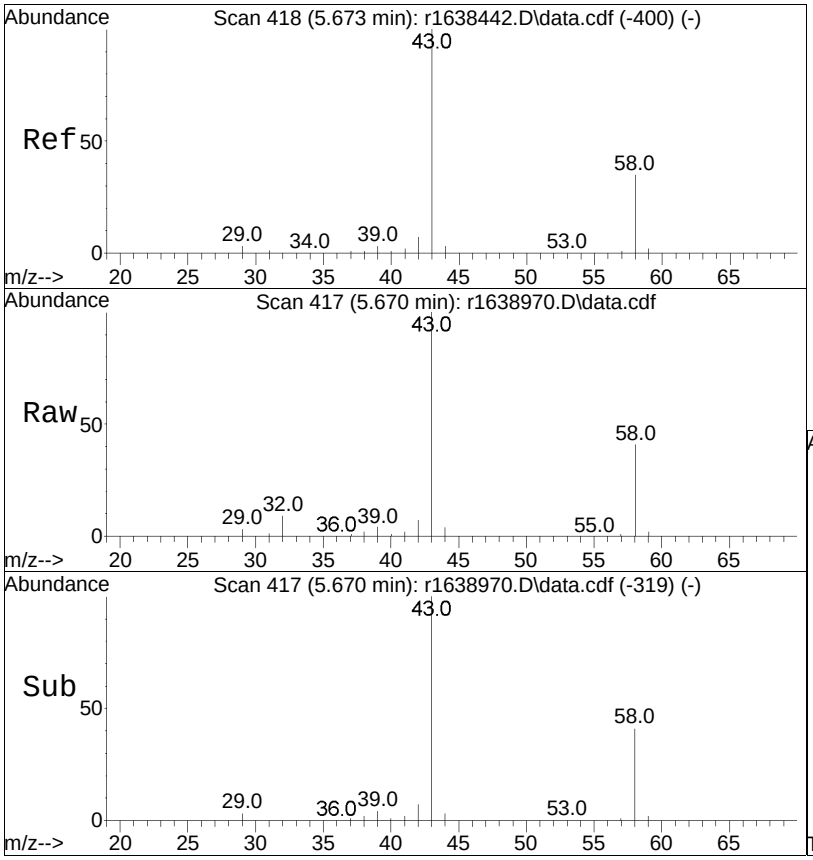


#15
ethanol
Concen: 63.71 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 31 Resp: 358385

Ion	Ratio	Lower	Upper
31	100		
45	61.7	58.6	87.8

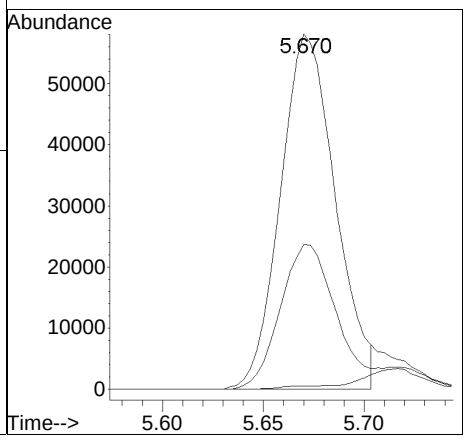


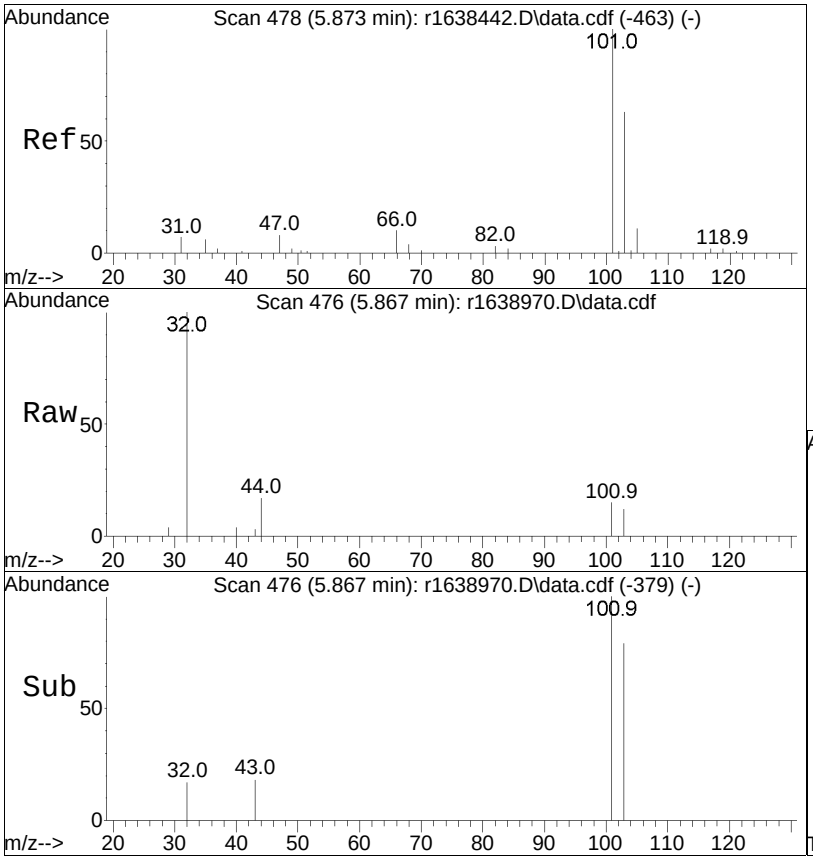


#19
acetone
Concen: 9.71 ppbV m
RT: 5.670 min Scan# 417
Delta R.T. -0.003 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 43 Resp: 110255

Ion	Ratio	Lower	Upper
43	100		
58	40.8	28.3	42.5
57	1.0	0.6	1.0#

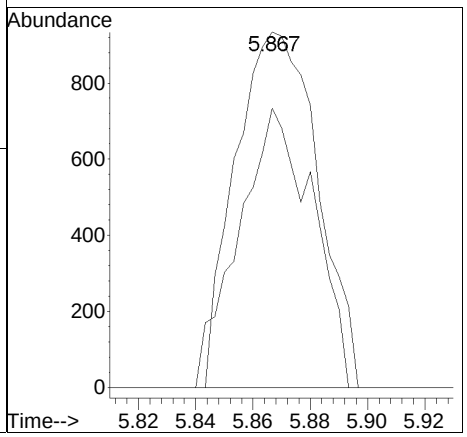


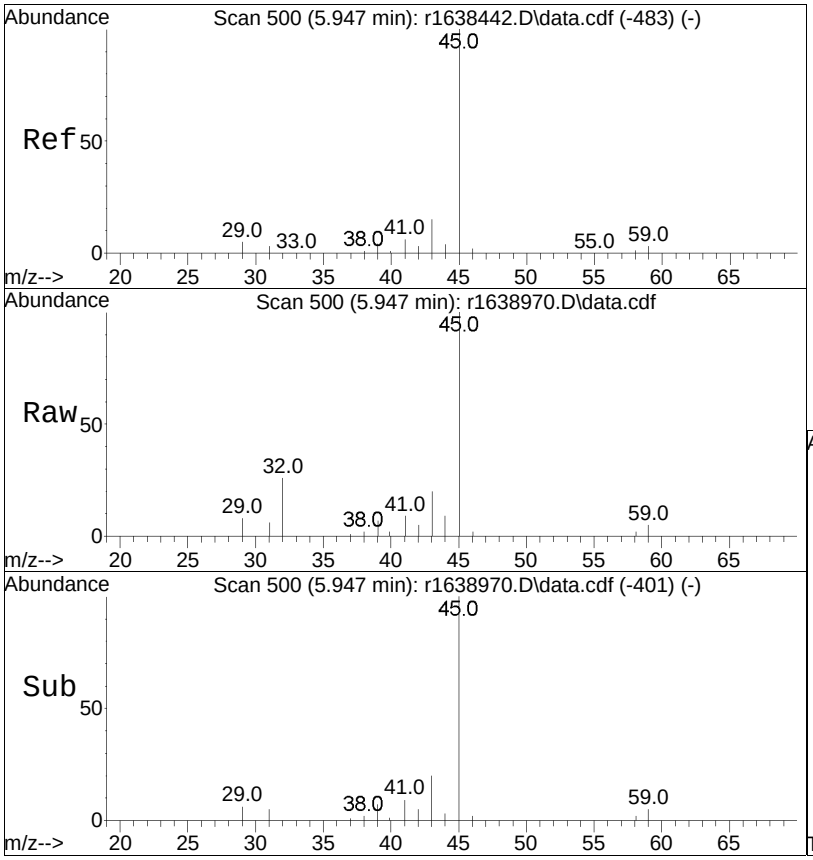


#21
trichlorofluoromethane
Concen: 0.17 ppbV
RT: 5.867 min Scan# 476
Delta R.T. -0.007 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:101 Resp: 1865

Ion	Ratio	Lower	Upper
101	100		
103	78.6	50.6	76.0#

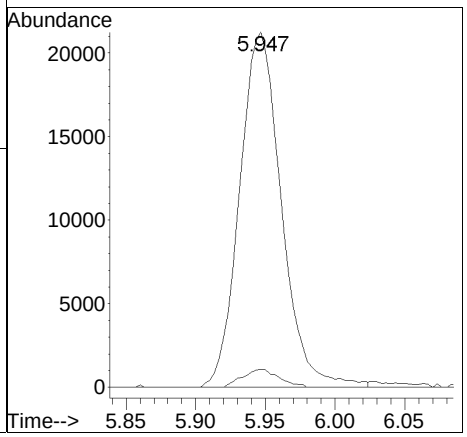


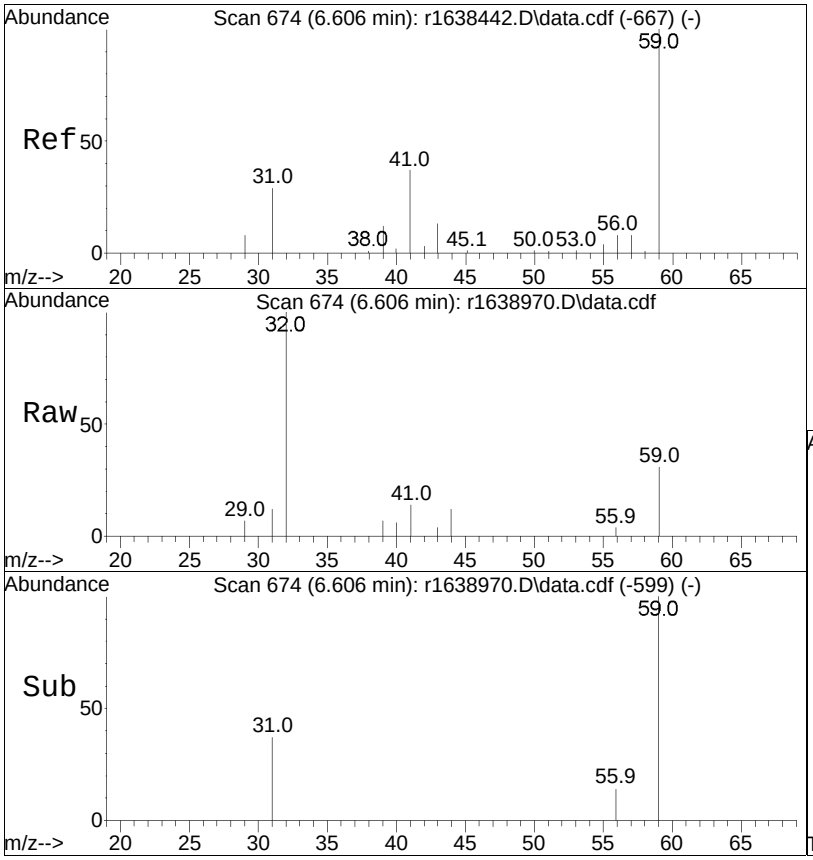


#22
isopropyl alcohol
Concen: 2.71 ppbV
RT: 5.947 min Scan# 500
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 45 Resp: 44415

Ion	Ratio	Lower	Upper
45	100		
59	5.1	2.8	4.2#

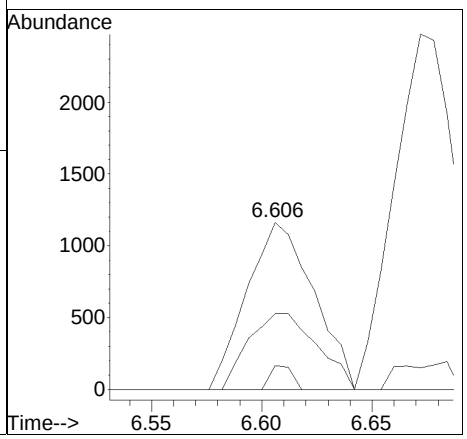


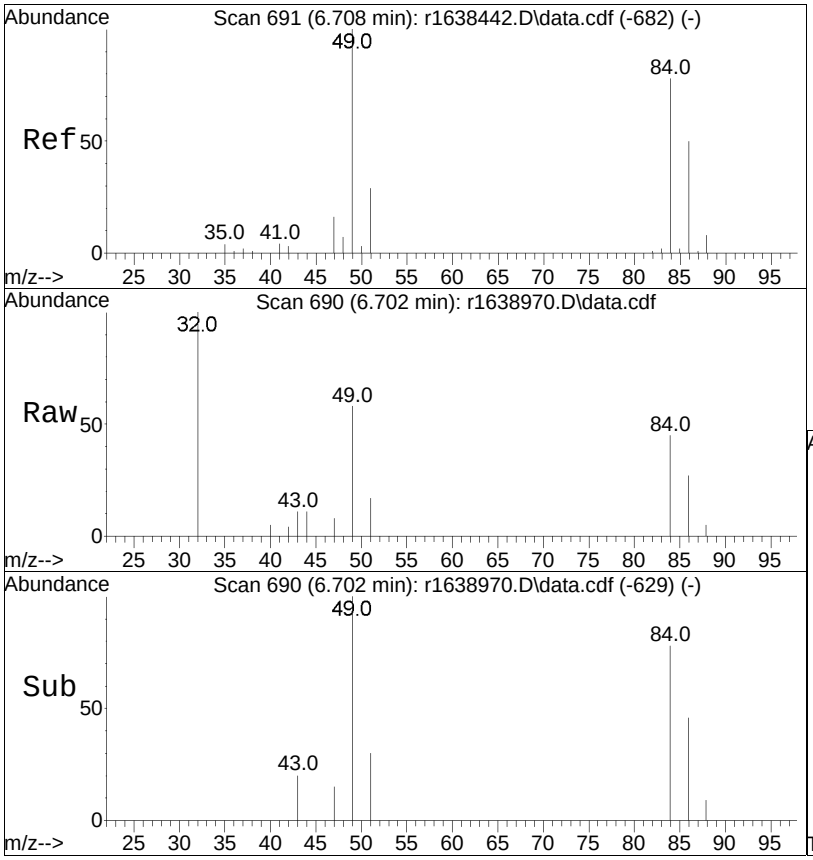


#27
tertiary butyl alcohol
Concen: 0.15 ppbV
RT: 6.606 min Scan# 674
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 59 Resp: 2454

Ion	Ratio	Lower	Upper
59	100		
41	45.4	29.3	43.9#
43	14.3	10.1	15.1

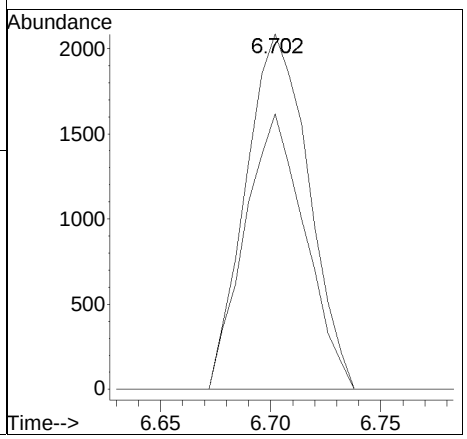


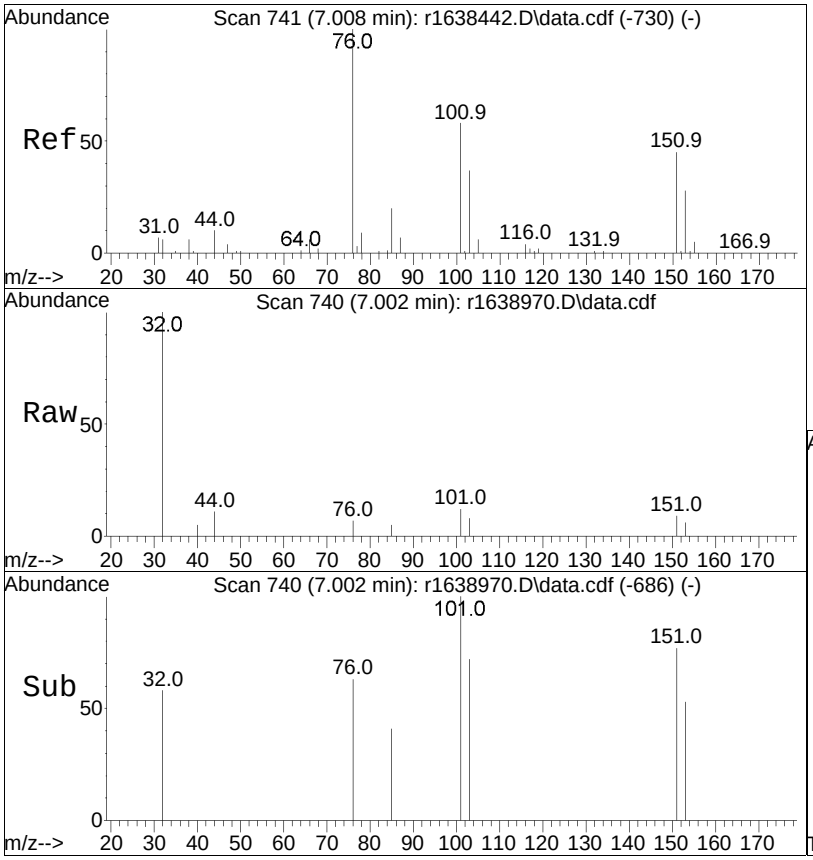


#28
methylene chloride
Concen: 0.34 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 49 Resp: 4141

Ion	Ratio	Lower	Upper
49	100		
84	77.5	62.4	93.6

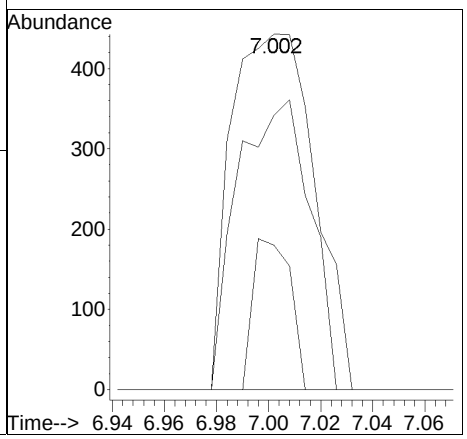


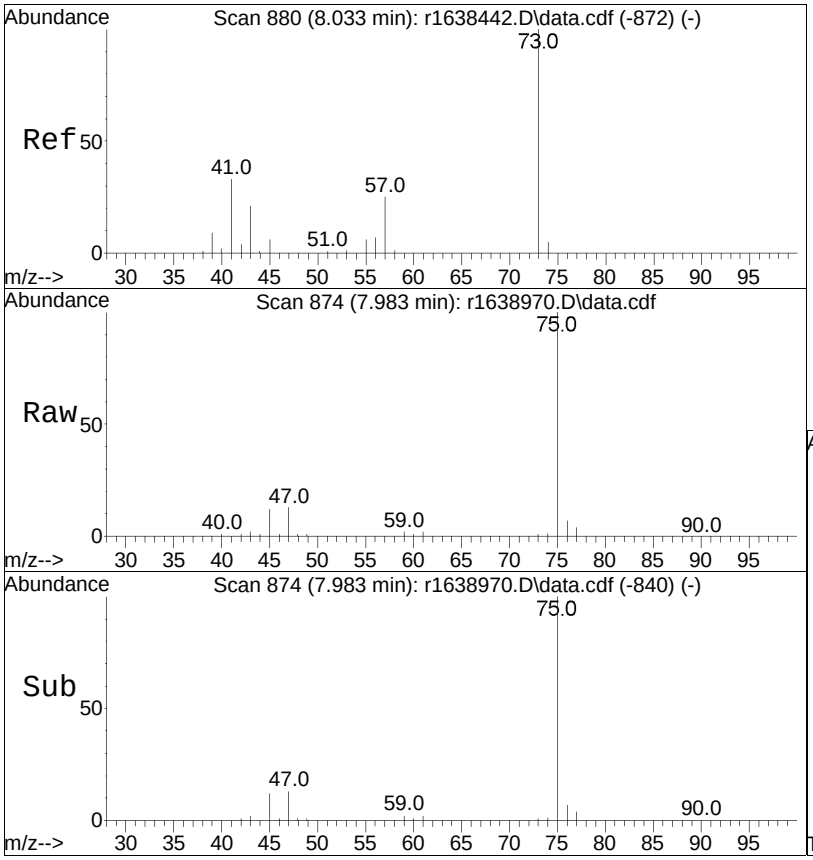


#31
Freon 113
Concen: 0.05 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:101 Resp: 986

Ion	Ratio	Lower	Upper
101	100		
85	40.6	27.8	41.6
151	77.2	62.2	93.4

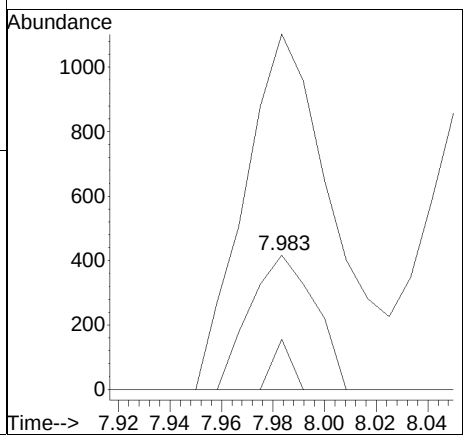


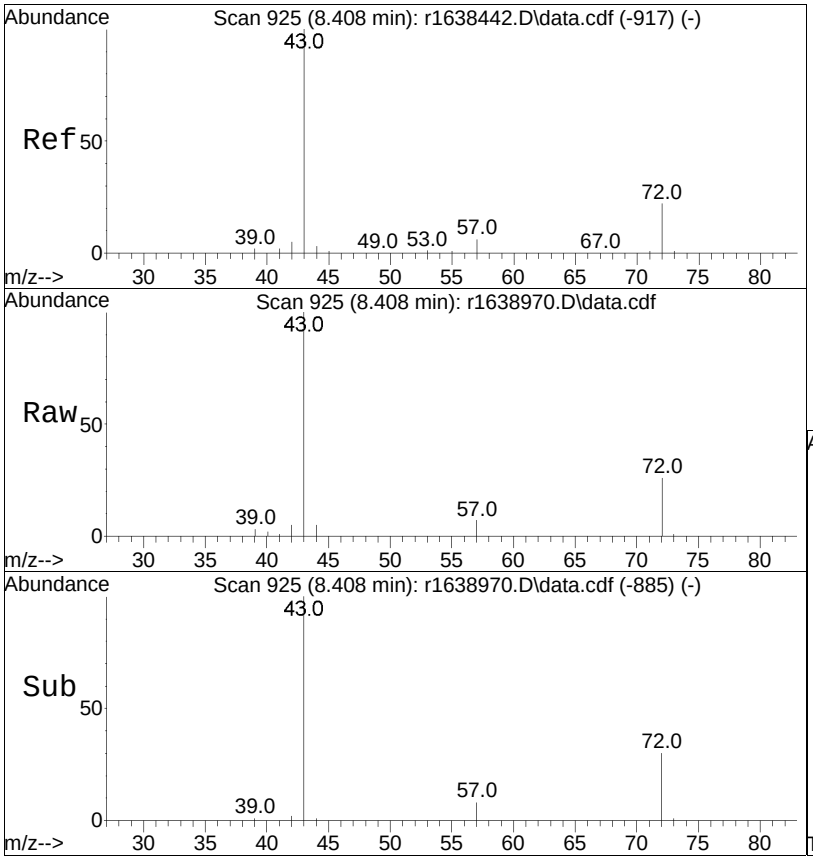


#34
MTBE
Concen: 0.03 ppbV
RT: 7.983 min Scan# 874
Delta R.T. -0.050 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 73 Resp: 734

Ion	Ratio	Lower	Upper
73	100		
57	37.4	20.2	30.4#
43	264.5	16.6	24.8#

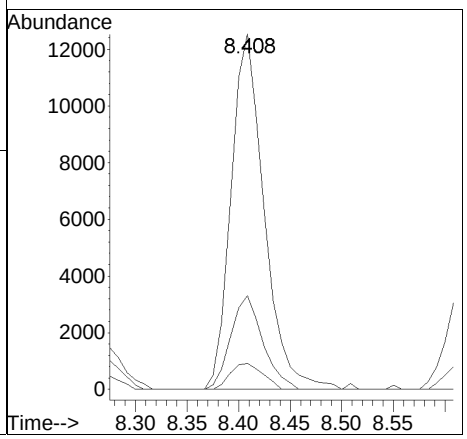


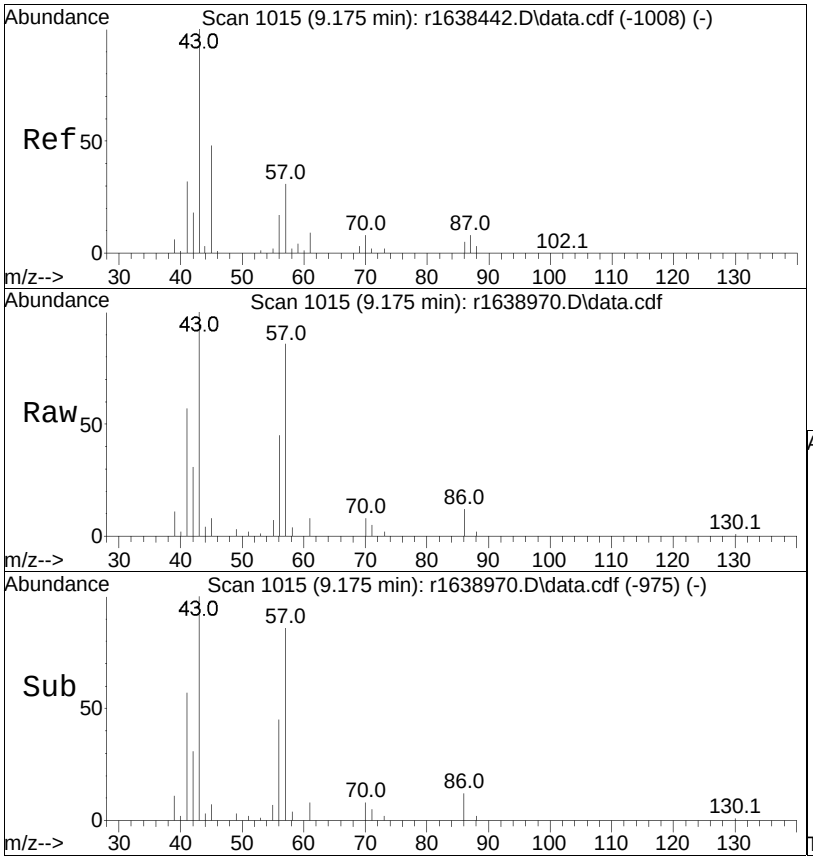


#36
2-butanone
Concen: 1.04 ppbV
RT: 8.408 min Scan# 925
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 43 Resp: 28091

Ion	Ratio	Lower	Upper
43	100		
72	26.4	17.4	26.0#
57	7.3	4.8	7.2#

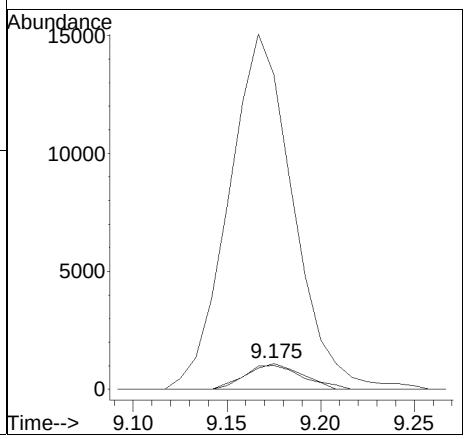


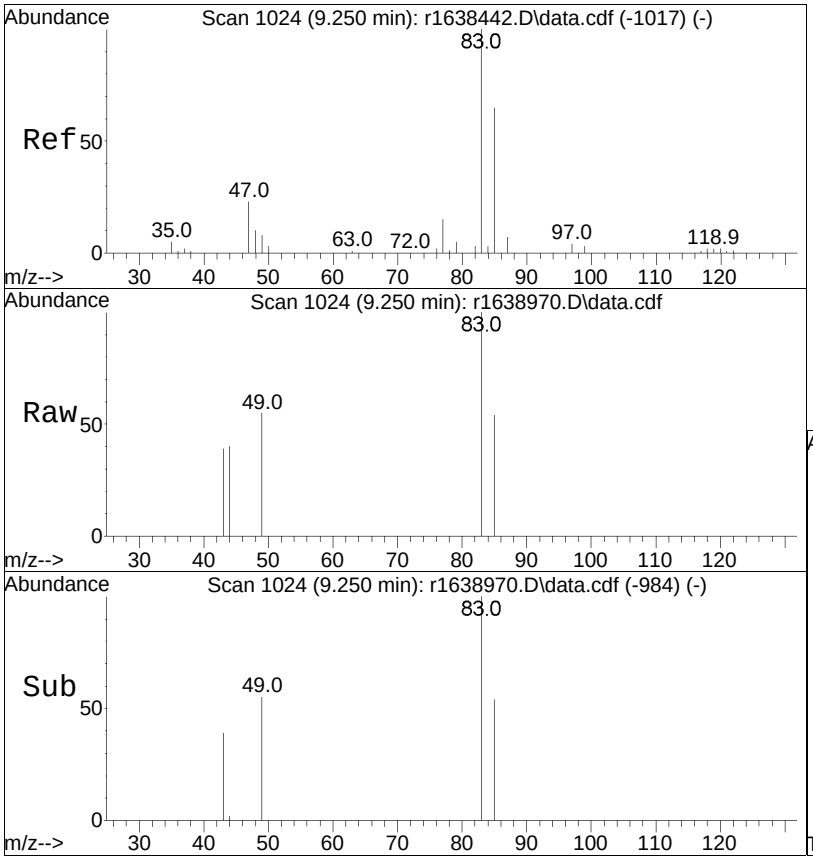


#38
Ethyl Acetate
Concen: 0.60 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 61 Resp: 2313

Ion	Ratio	Lower	Upper
61	100		
70	92.7	74.6	112.0
43	1216.8	942.0	1413.0

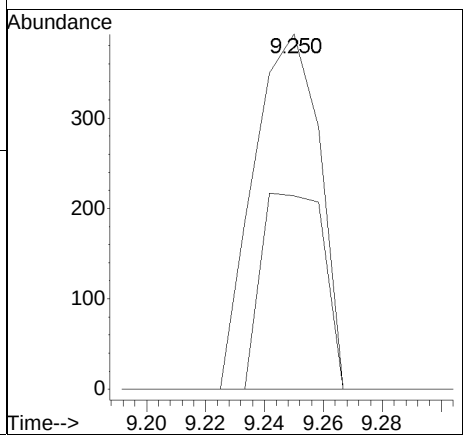


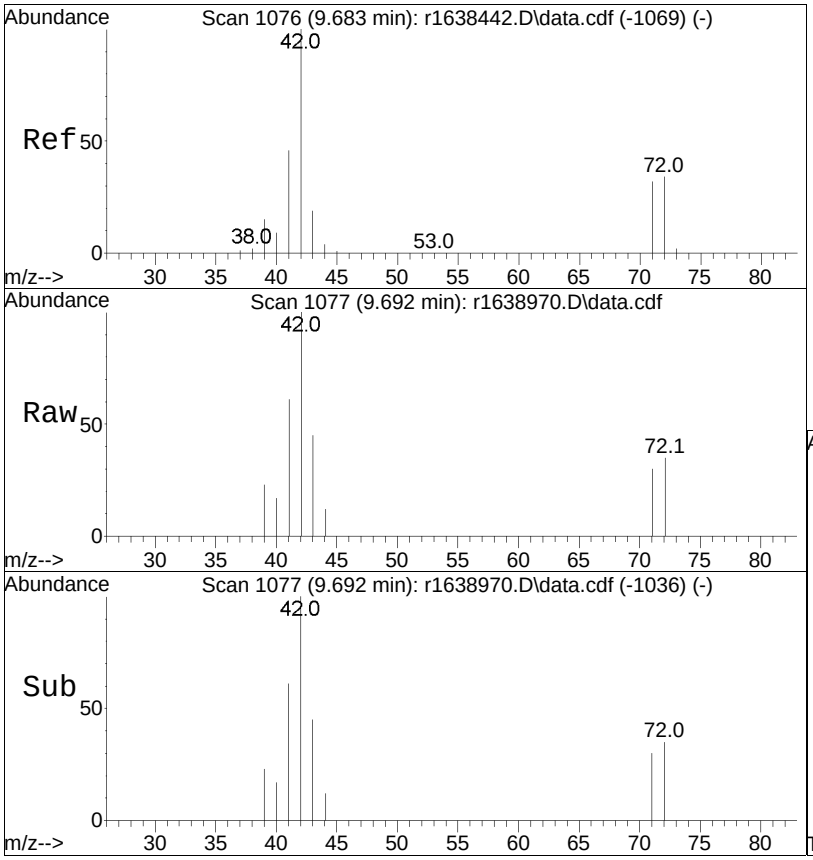


#39
chloroform
Concen: 0.04 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 83 Resp: 610

Ion	Ratio	Lower	Upper
83	100		
85	54.5	51.9	77.9
47	0.0	18.0	27.0#

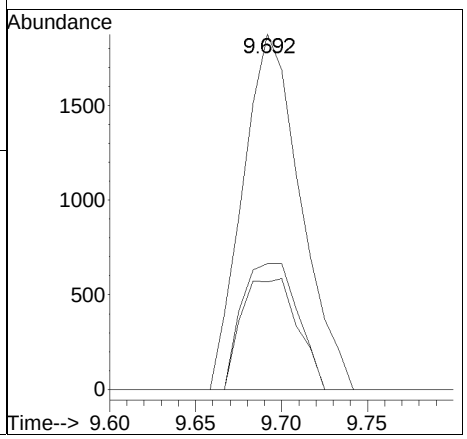


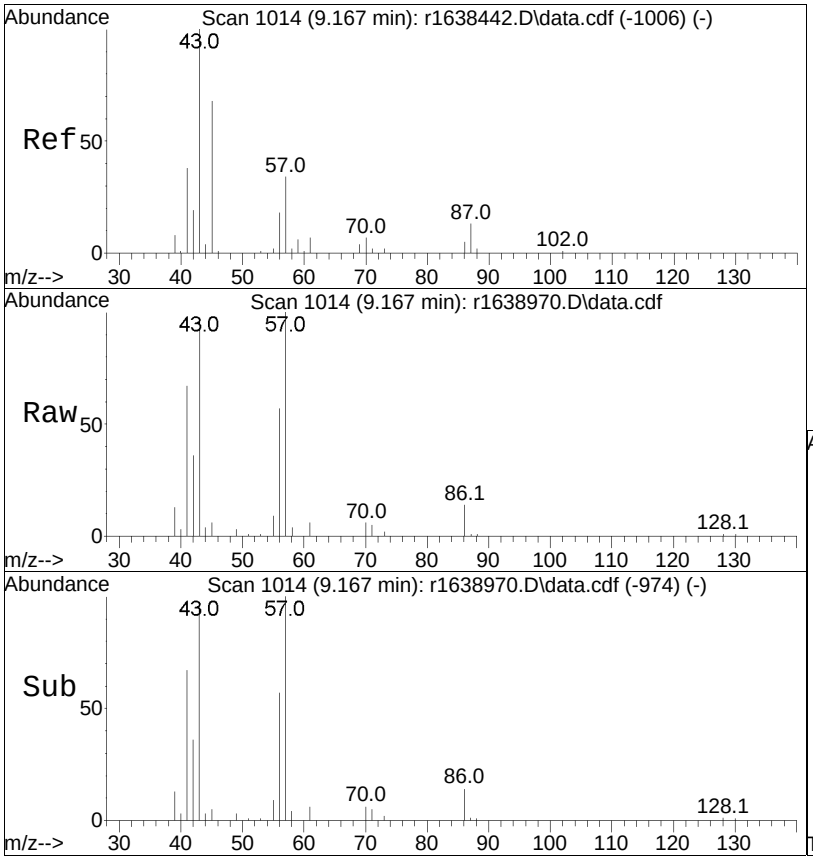


#40
Tetrahydrofuran
Concen: 0.26 ppbV
RT: 9.692 min Scan# 1077
Delta R.T. 0.008 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 42 Resp: 4402

Ion	Ratio	Lower	Upper
42	100		
71	30.2	25.6	38.4
72	35.4	27.4	41.2

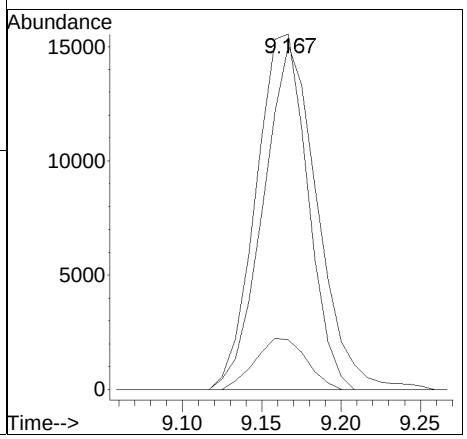


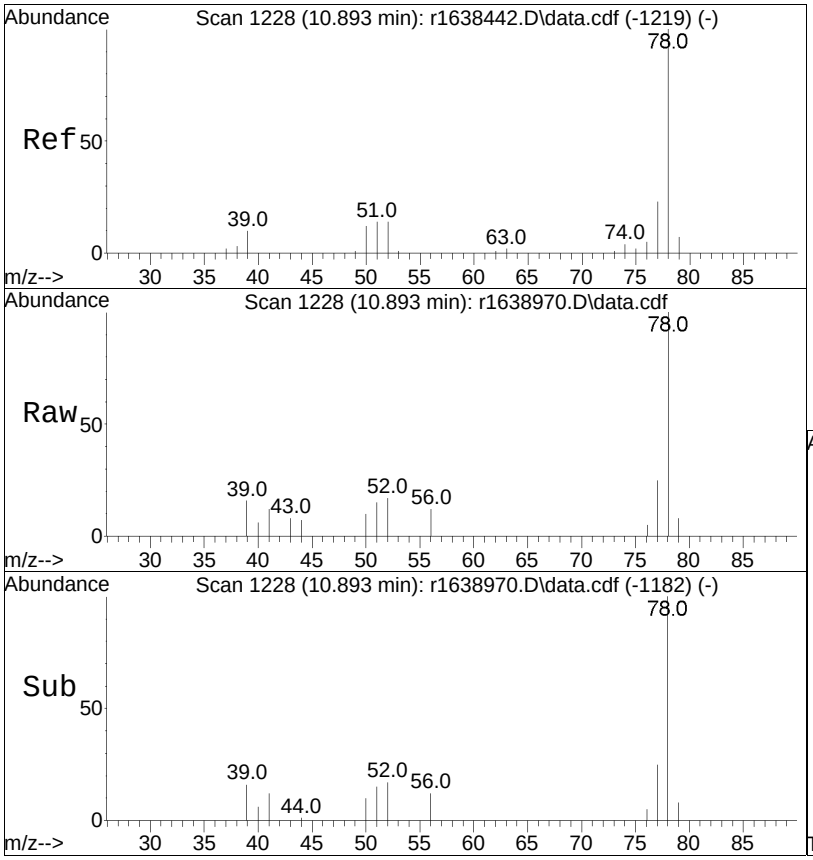


#44
hexane
Concen: 2.13 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 57 Resp: 35221

Ion	Ratio	Lower	Upper
57	100		
43	96.8	233.1	349.7#
86	13.9	12.6	18.8

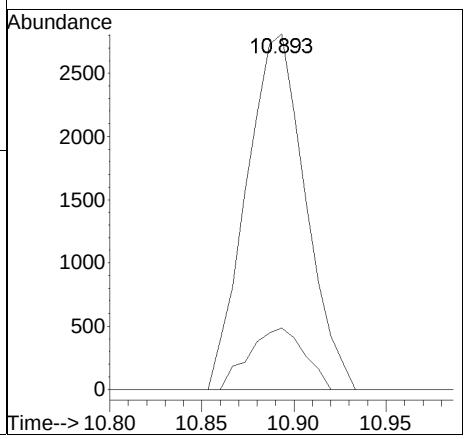


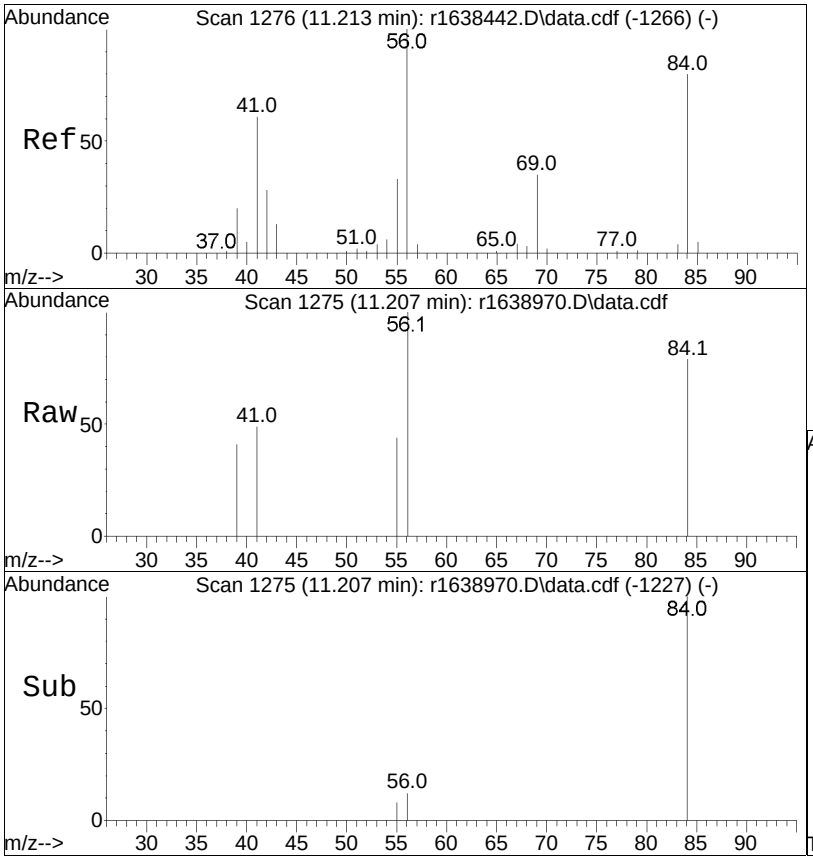


#50
benzene
Concen: 0.18 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 78 Resp: 6250

Ion	Ratio	Lower	Upper
78	100		
52	17.3	11.6	17.4

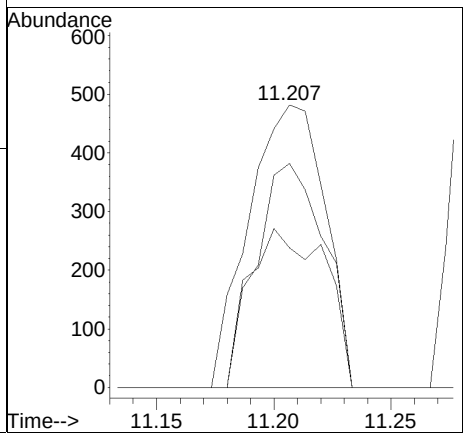


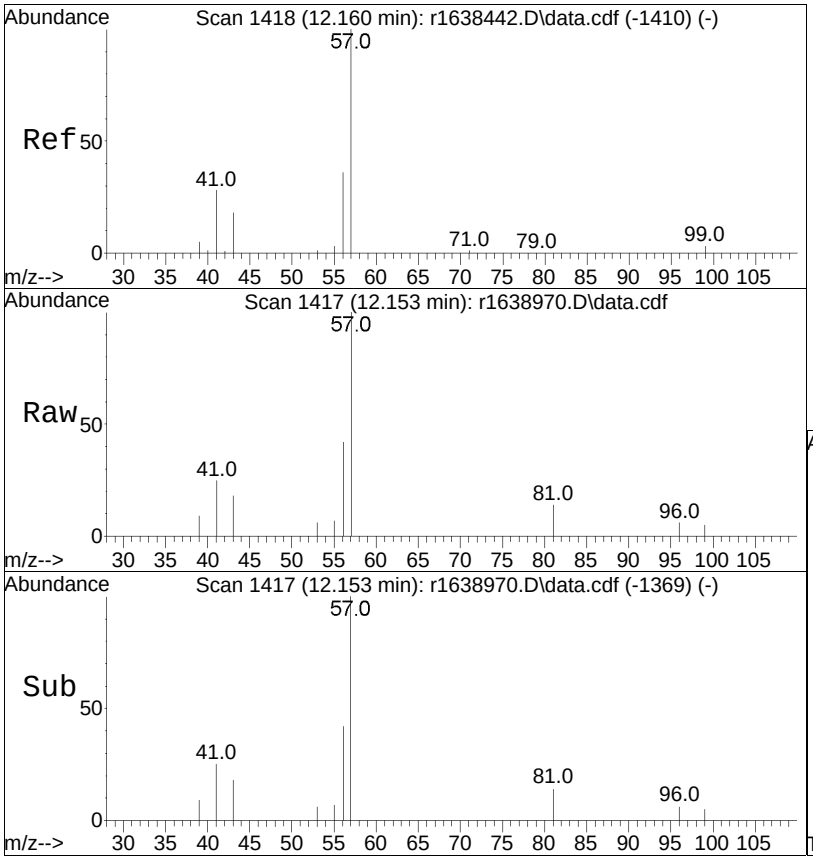


#53
cyclohexane
Concen: 0.06 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 56 Resp: 1088

Ion	Ratio	Lower	Upper
56	100		
84	79.3	64.2	96.4
41	49.4	48.8	73.2

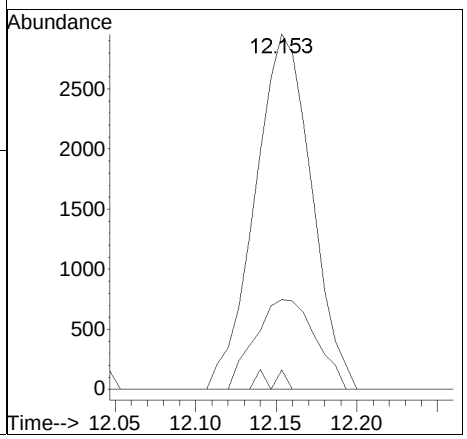


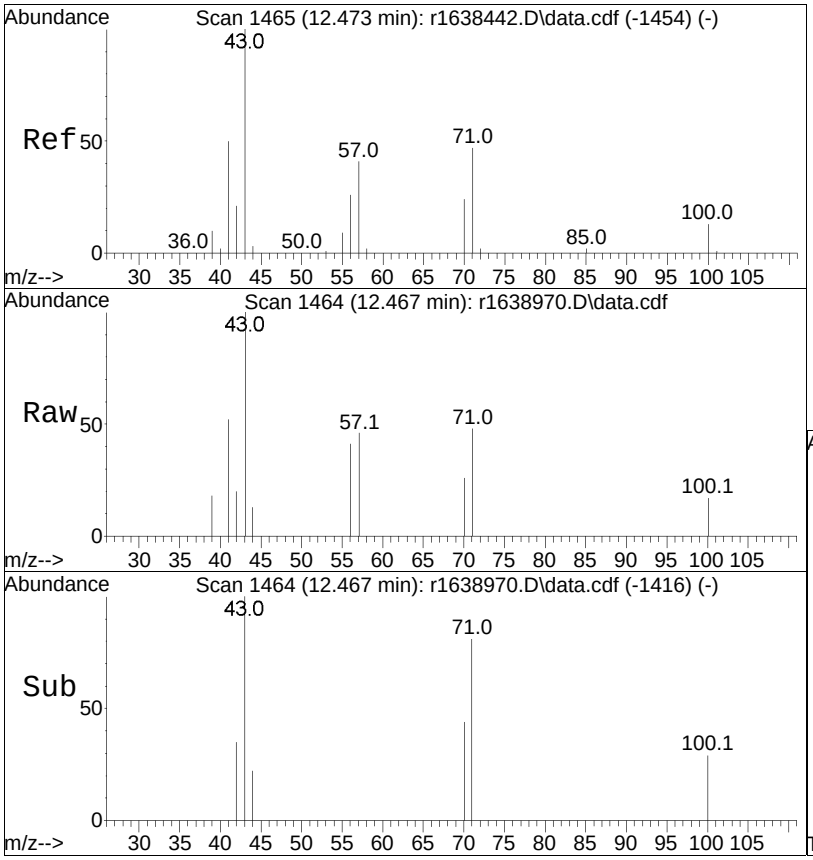


#60
2,2,4-trimethylpentane
Concen: 0.13 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 57 Resp: 7208

Ion	Ratio	Lower	Upper
57	100		
99	5.4	4.4	6.6
41	25.3	21.9	32.9

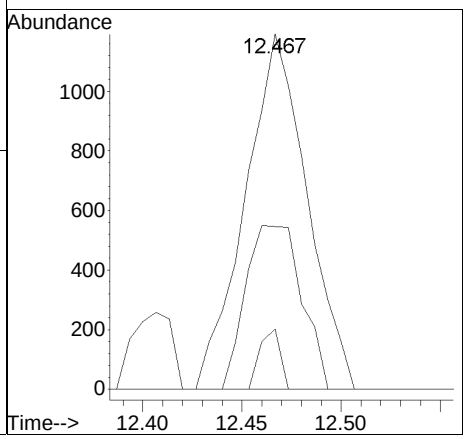


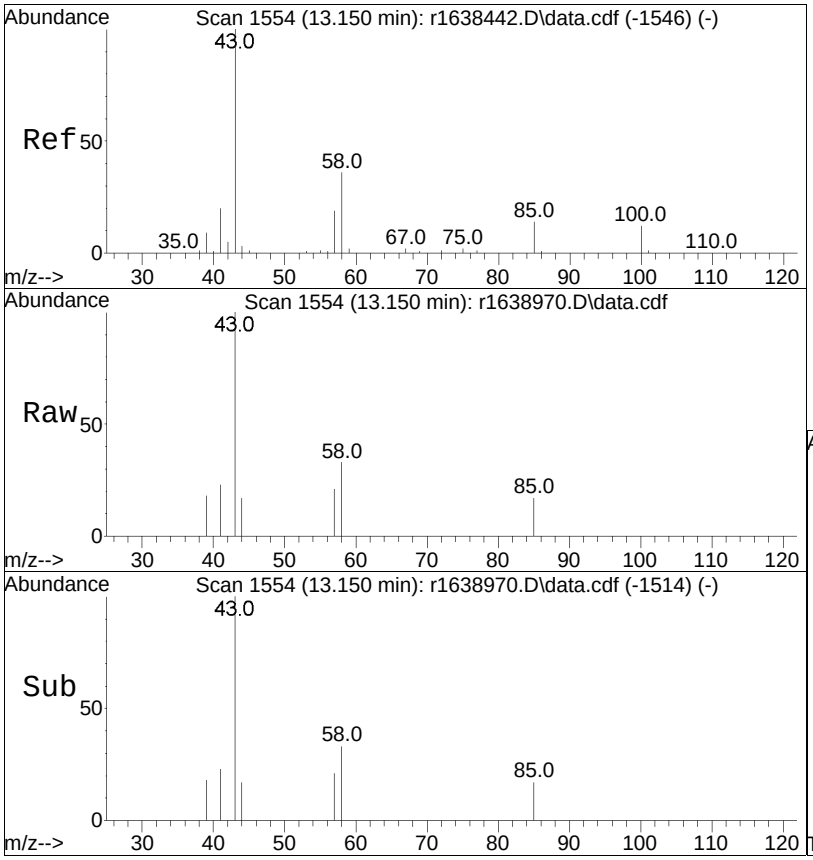


#62
heptane
Concen: 0.10 ppbV
RT: 12.467 min Scan# 1464
Delta R.T. -0.007 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 43 Resp: 2582

Ion	Ratio	Lower	Upper
43	100		
57	45.8	32.8	49.2
100	16.9	10.9	16.3#

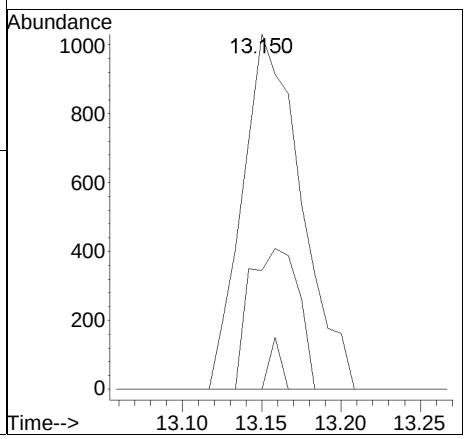


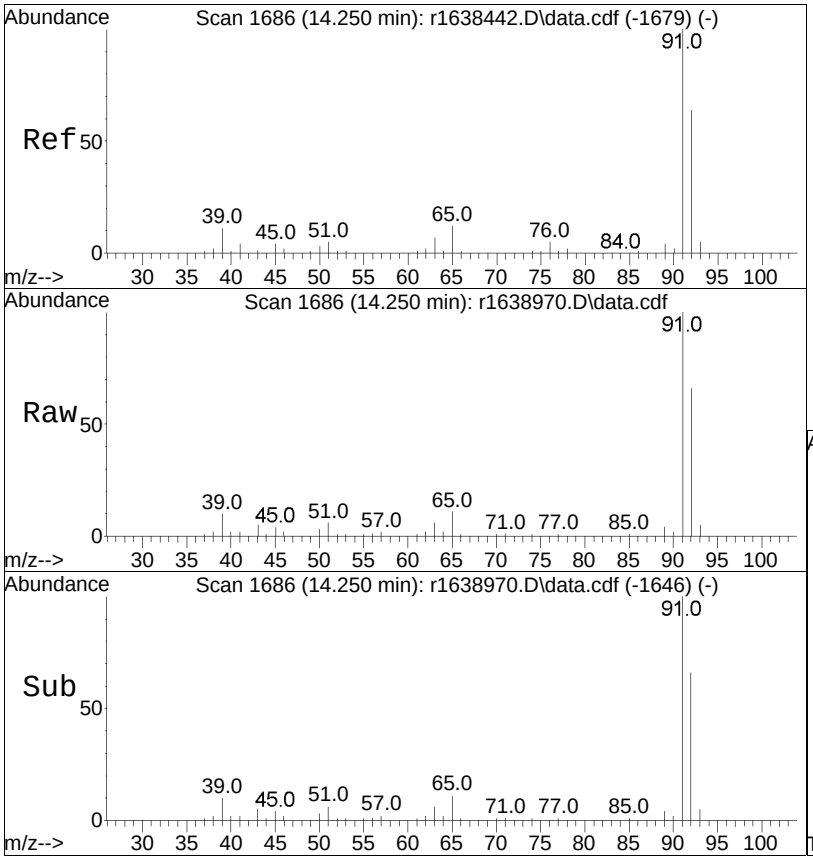


#64
4-methyl-2-pentanone
Concen: 0.09 ppbV
RT: 13.150 min Scan# 1554
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 43 Resp: 2667

Ion	Ratio	Lower	Upper
43	100		
58	33.5	28.6	43.0
100	0.0	9.9	14.9#

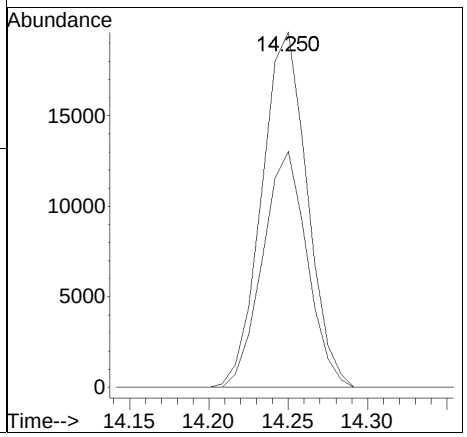


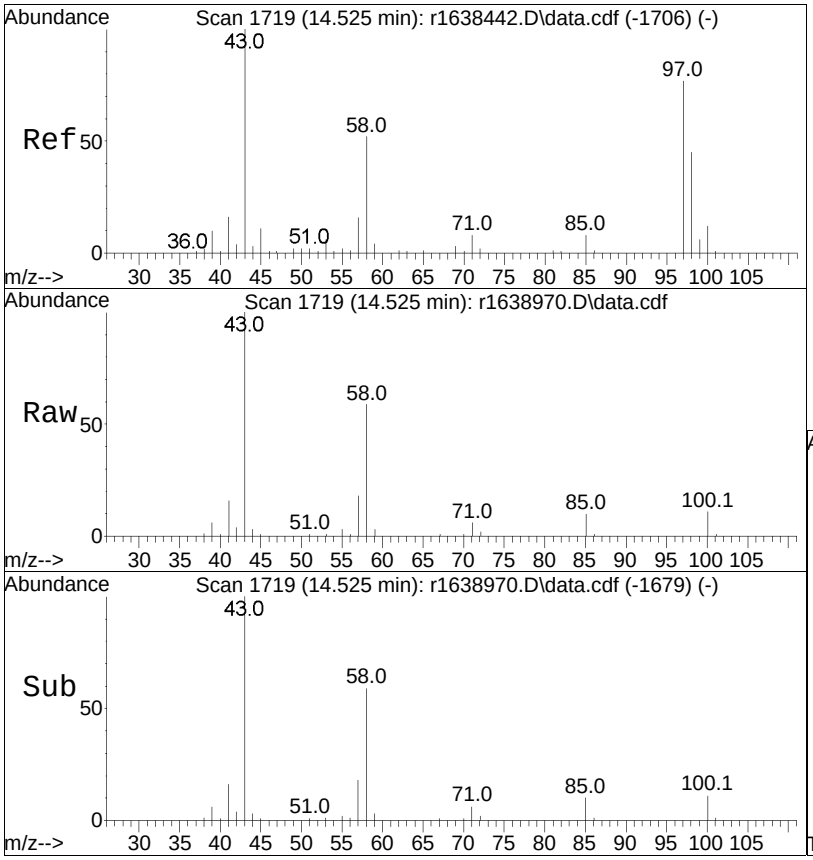


#68
toluene
Concen: 0.87 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 91 Resp: 39153

Ion	Ratio	Lower	Upper
91	100		
92	66.5	51.0	76.4

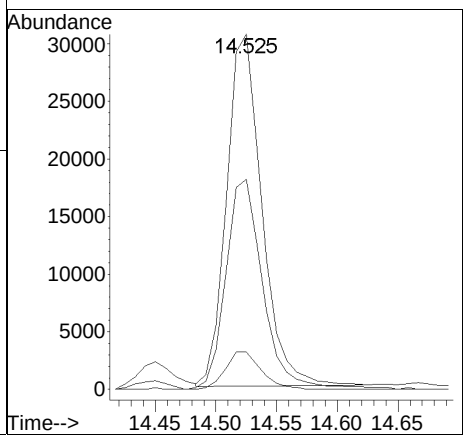


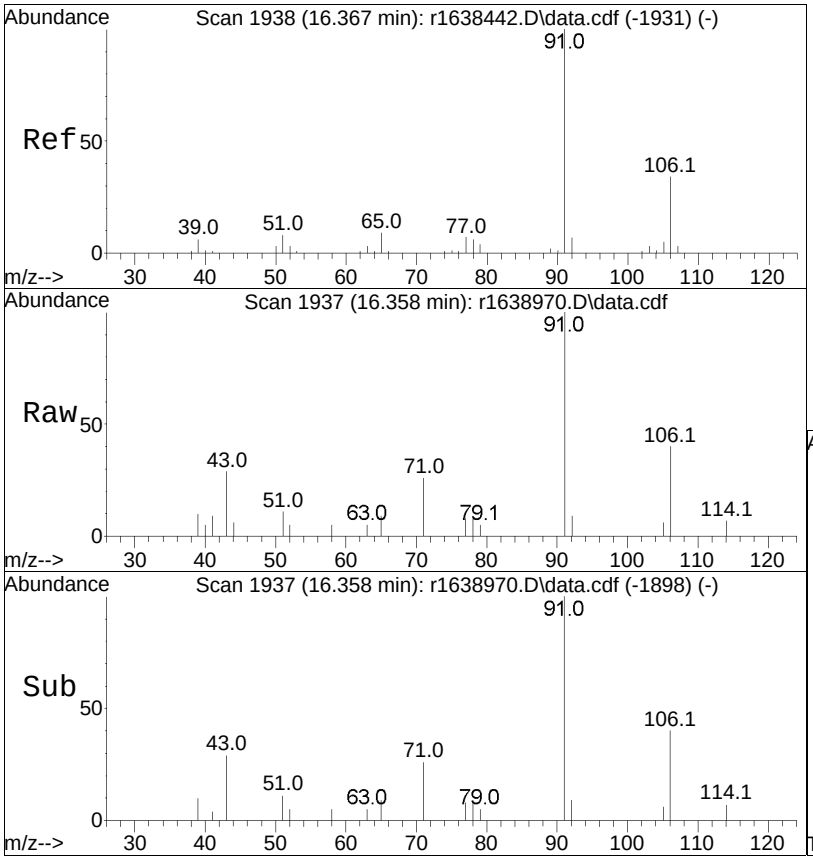


#72
2-hexanone
Concen: 2.11 ppbV
RT: 14.525 min Scan# 1719
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 43 Resp: 61892

Ion	Ratio	Lower	Upper
43	100		
58	59.1	41.4	62.2
100	10.5	9.3	13.9

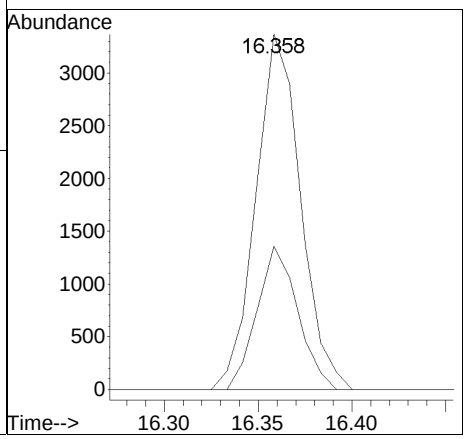


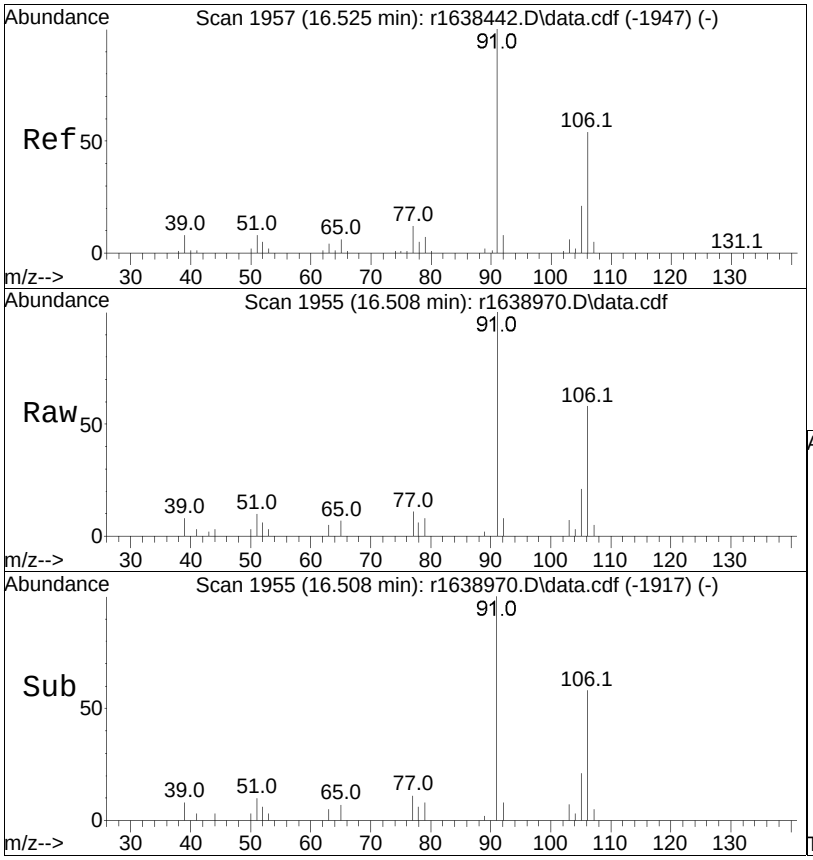


#81
ethylbenzene
Concen: 0.10 ppbV
RT: 16.358 min Scan# 1937
Delta R.T. -0.008 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 91 Resp: 5586

Ion	Ratio	Lower	Upper
91	100		
106	40.3	27.4	41.2

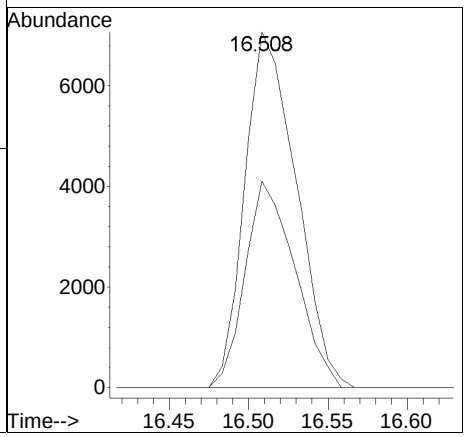


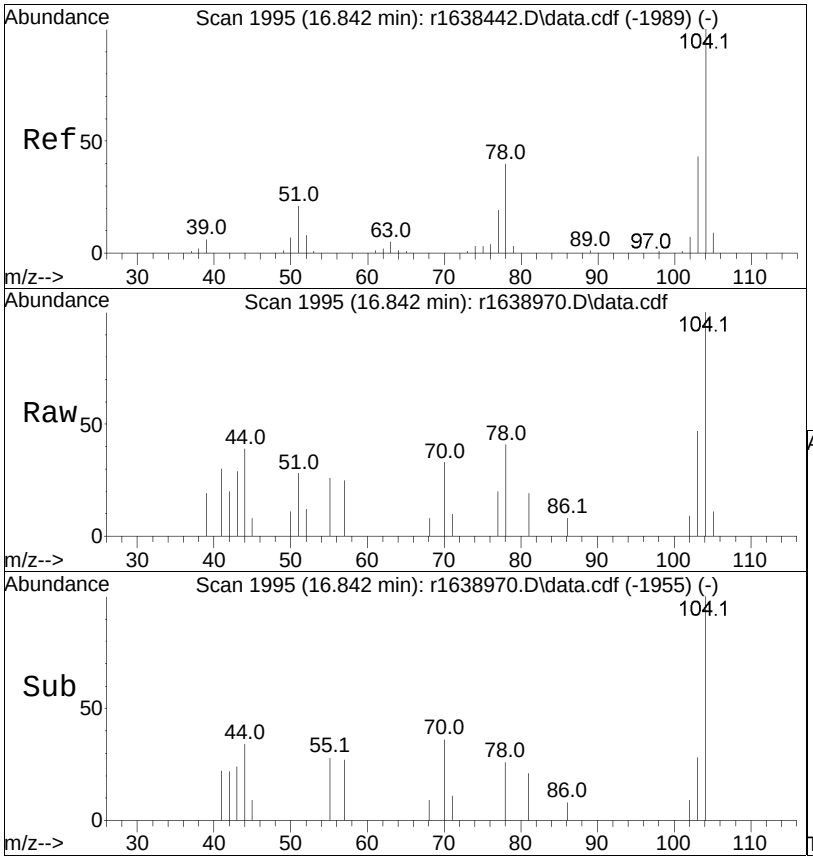


#83
m+p-xylene
Concen: 0.36 ppbV
RT: 16.508 min Scan# 1955
Delta R.T. -0.017 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 91 Resp: 15920

Ion	Ratio	Lower	Upper
91	100		
106	58.0	43.0	64.4

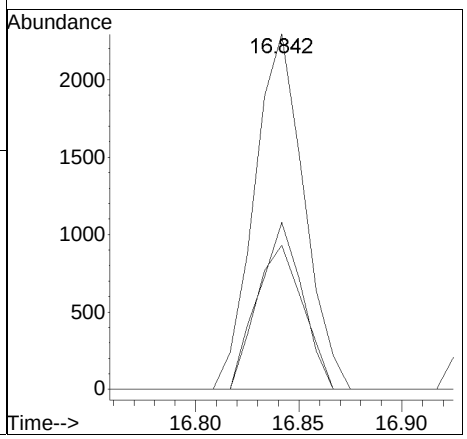


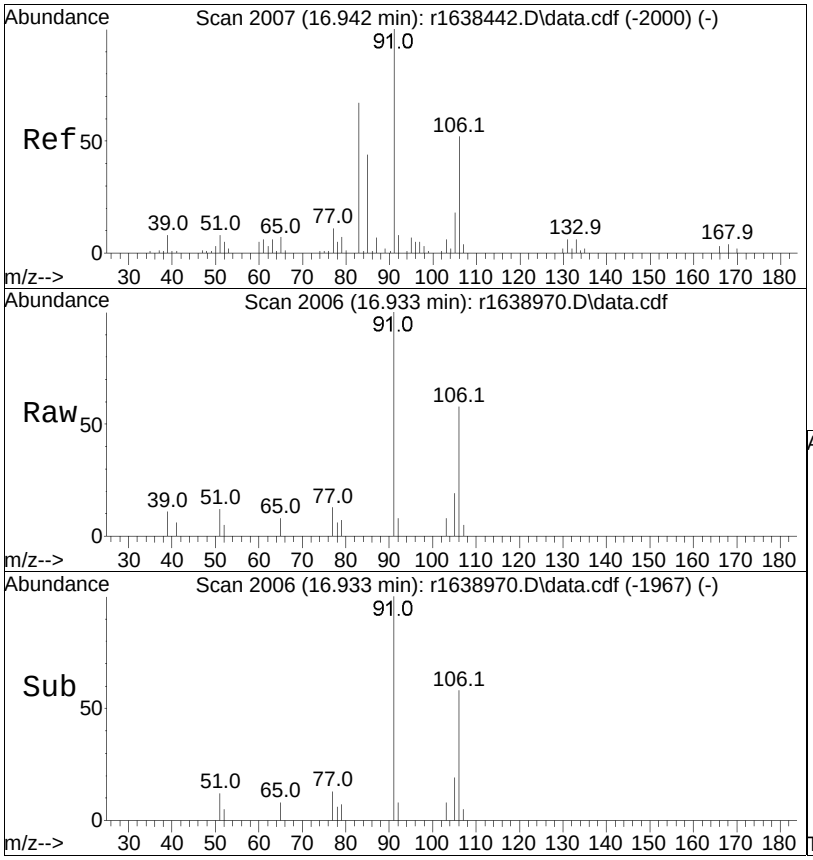


#85
styrene
Concen: 0.10 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:104 Resp: 3845

Ion	Ratio	Lower	Upper
104	100		
103	47.0	34.0	51.0
78	40.6	31.7	47.5

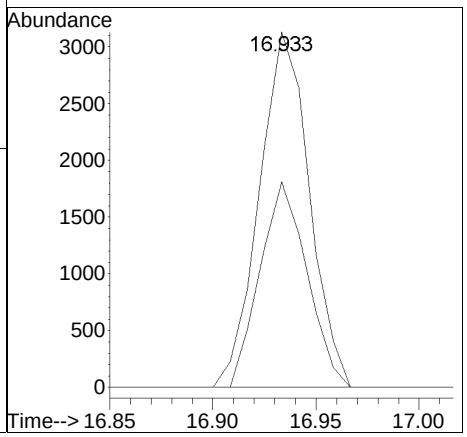


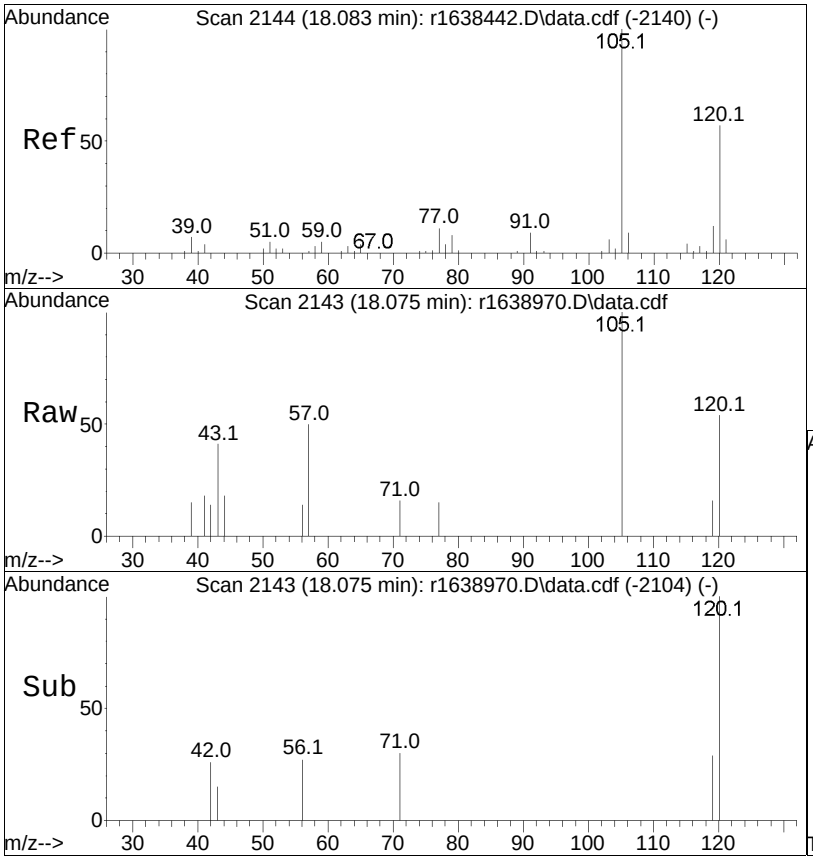


#87
o-xylene
Concen: 0.12 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion: 91 Resp: 5279

Ion	Ratio	Lower	Upper
91	100		
106	57.8	41.7	62.5

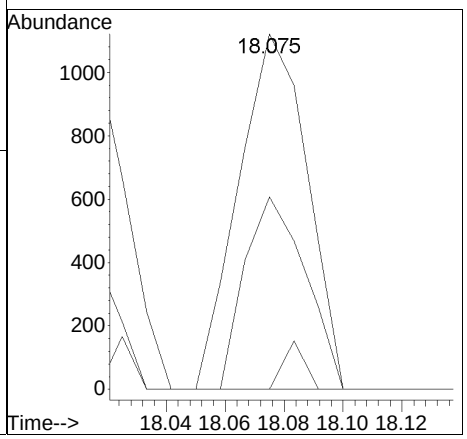


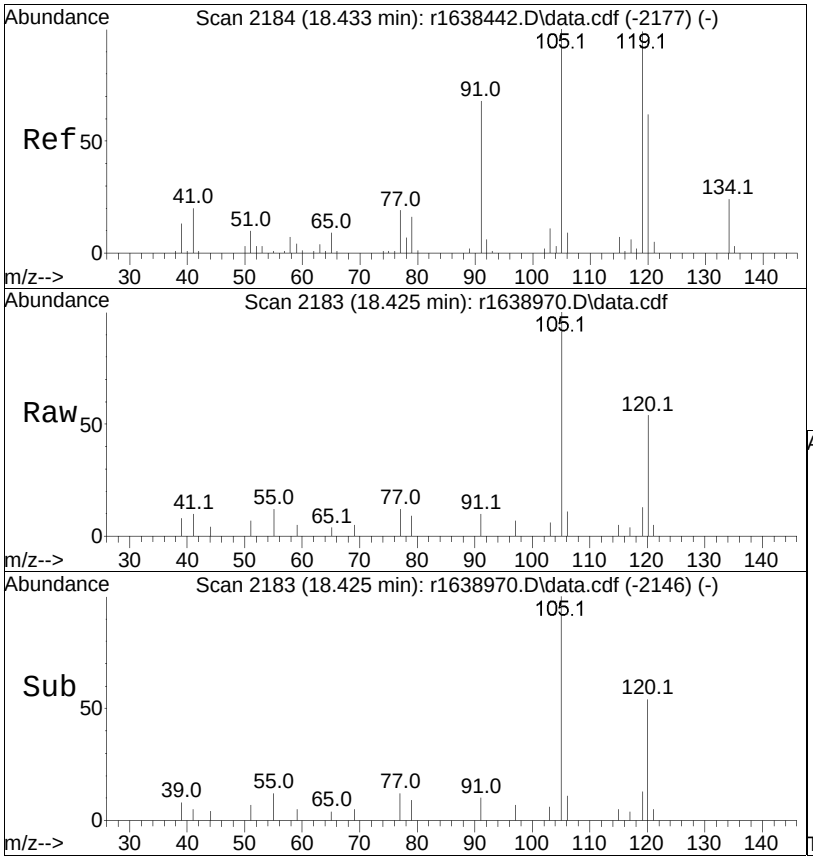


#97
1,3,5-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.075 min Scan# 2143
Delta R.T. -0.008 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:105 Resp: 1821

Ion	Ratio	Lower	Upper
105	100		
120	54.1	45.4	68.2
91	0.0	7.5	11.3#

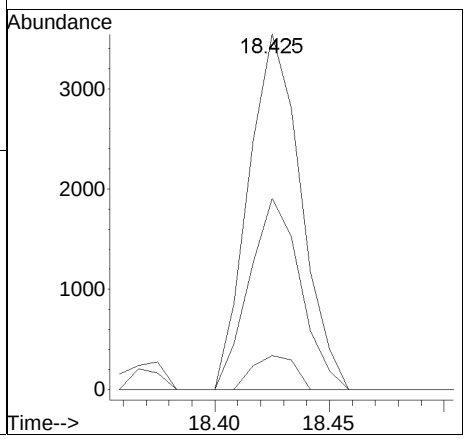




#99
1,2,4-trimethylbenzene
Concen: 0.11 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638970.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:105 Resp: 5633

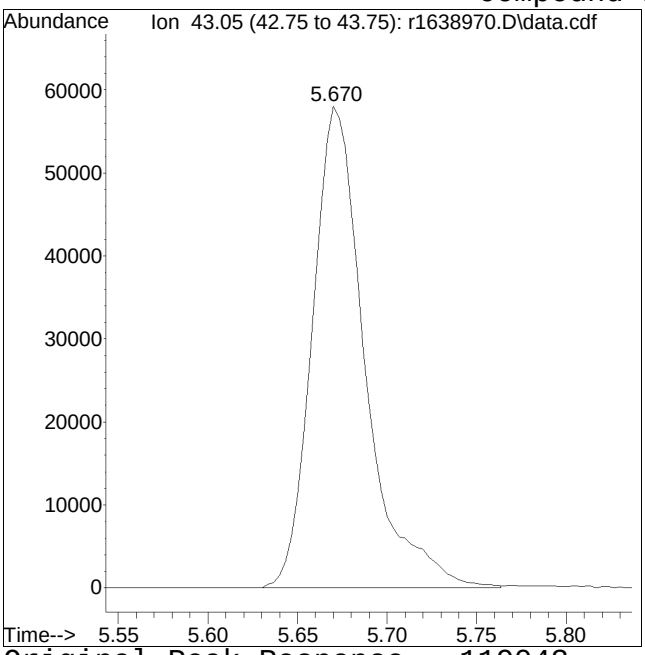
Ion	Ratio	Lower	Upper
105	100		
120	53.8	49.9	74.9
91	9.5	54.0	81.0#



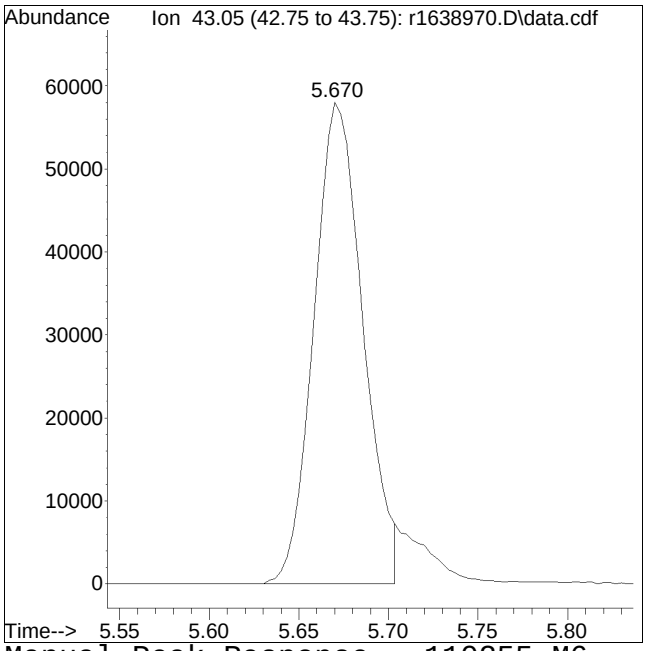
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638970.D Operator : AIRLAB16:APR
Date Inj'd : 8/23/2020 0:2: 9 Instrument :
Sample : L2347540-11,3,250,250 Quant Date : 8/23/2023 6:34 am

Compound #19: acetone



Original Peak Response = 119043



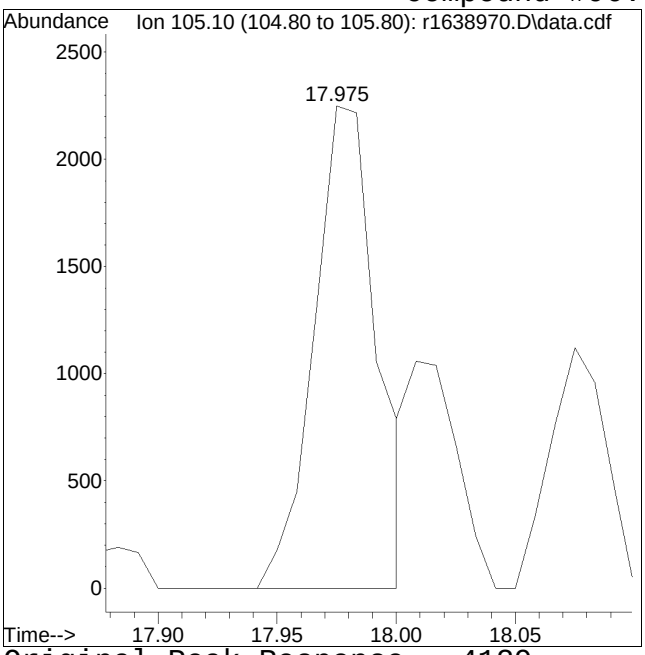
Manual Peak Response = 110255 M6

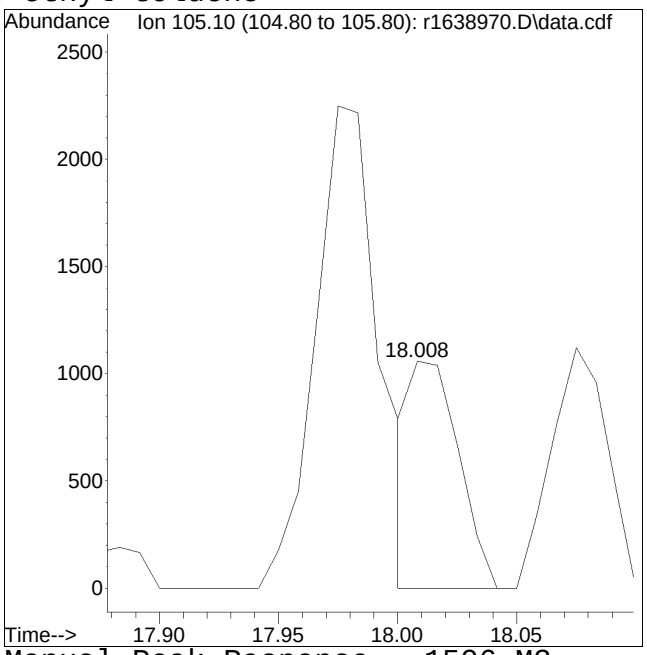
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638970.D Operator : AIRLAB16:APR
Date Inj'd : 8/23/2020 0:2: 9 Instrument :
Sample : L2347540-11,3,250,250 Quant Date : 8/23/2023 6:34 am

Compound #96: 4-ethyl toluene





Original Peak Response = 4129 Manual Peak Response = 1506 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Volatiles Standards Data

Initial Calibration

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20199**
Calibration dates	**: 07/25/23 09:10 07/25/23 13:51**		

Calibration Files

0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D

50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.762	0.692	0.678	0.674	0.637	0.616	0.604	0.566	0.6537	9.33
3)		propylene		0.577	0.521	0.534	0.485	0.453	0.405	0.348	0.4749	16.66
4)		propane		0.501	0.479	0.451	0.416	0.406	0.395	0.373	0.4317	10.79
5)		dichlorodifluoromethane	0.921	0.864	0.824	0.830	0.703	0.647	0.601	0.541	0.7413	18.56
6)	C	chloromethane	0.518	0.452	0.435	0.440	0.402	0.387	0.369	0.342	0.4183	13.21
7)		Freon-114	1.085	0.982	0.953	0.955	0.863	0.808	0.741	0.652	0.8799	16.07
8)	C	methanol			0.185	0.173	0.162	0.156	0.150	0.142	0.1614	9.69
9)	C	vinyl chloride	0.517	0.468	0.448	0.449	0.407	0.381	0.355	0.322	0.4183	15.38
10)	C	1,3-butadiene	0.367	0.345	0.338	0.346	0.325	0.307	0.289	0.269	0.3231	10.10
11)		butane	1.007	0.894	0.837	0.829	0.761	0.698	0.623	0.534	0.7729	19.70
12)	C	acetaldehyde		0.252	0.239	0.226	0.209	0.200	0.187	0.171	0.2120	13.59
13)	C	bromomethane	0.430	0.419	0.396	0.394	0.364	0.343	0.309	0.275	0.3661	14.84
14)	C	chloroethane	0.268	0.222	0.220	0.215	0.201	0.191	0.172	0.151	0.2052	17.28
15)		ethanol			0.283	0.288	0.280	0.275	0.246	0.210	0.2637	11.41
16)		dichlorofluoromethane	0.903	0.843	0.802	0.808	0.756	0.707	0.620	0.536	0.7467	16.21
17)	C	vinyl bromide	0.434	0.418	0.396	0.407	0.385	0.368	0.320	0.274	0.3751	14.36
18)	C	acrolein		0.198	0.184	0.180	0.173	0.172	0.160	0.147	0.1736	9.53
19)		acetone	0.701	0.602	0.568	0.567	0.533	0.507	0.429	0.349	0.5322	20.19
20)	C	acetonitrile	0.541	0.456	0.438	0.445	0.420	0.406	0.355	0.298	0.4199	17.08
21)		trichlorofluoromethane	0.608	0.569	0.552	0.556	0.527	0.514	0.451	0.403	0.5225	12.77
22)		isopropyl alcohol	1.019	0.836	0.791	0.803	0.771	0.752	0.648	0.537	0.7696	18.19
23)	C	acrylonitrile	0.416	0.385	0.369	0.393	0.385	0.393	0.373	0.346	0.3827	5.39
24)		pentane	1.415	1.259	1.208	1.217	1.166	1.178	1.033	0.827	1.1630	14.81
25)		ethyl ether	0.785	0.736	0.693	0.716	0.691	0.693	0.622	0.567	0.6878	9.75
26)	C	1,1-dichloroethene	0.804	0.754	0.720	0.725	0.698	0.688	0.569	0.469	0.6785	15.92
27)		tertiary butyl alcohol		0.759	0.777	0.821	0.788	0.810	0.682	0.585	0.7460	11.32
28)	C	methylene chloride		0.642	0.591	0.580	0.562	0.578	0.545	0.500	0.5712	7.60
29)	C	3-chloropropene	0.909	0.835	0.804	0.865	0.839	0.839	0.738	0.612	0.8051	11.45
30)	C	carbon disulfide	1.466	1.376	1.363	1.513	1.514	1.529	1.387	1.184	1.4164	8.16
31)		Freon 113	1.089	1.033	0.978	0.981	0.937	0.954	0.827	0.682	0.9350	13.61
32)		trans-1,2-dichloroethene	0.848	0.770	0.748	0.793	0.761	0.738	0.615	0.510	0.7230	14.97
33)	C	1,1-dichloroethane	1.074	1.023	0.972	0.994	0.956	0.957	0.803	0.669	0.9309	14.12
34)	C	MTBE	1.236	1.151	1.104	1.177	1.152	1.157	1.048	0.940	1.1206	8.10
35)	C	vinyl acetate			1.216	1.323	1.302	1.266	1.146	0.998	1.2087	10.03
36)	C	2-butanone		1.360	1.276	1.347	1.321	1.322	1.185	1.023	1.2621	9.54

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20199**
Calibration dates	**: 07/25/23 09:10 07/25/23 13:51**		

Calibration Files

0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D

50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	0.765	0.727	0.722	0.720	0.695	0.695	0.575	0.482	0.6726	14.13
38)		Ethyl Acetate	0.179	0.193	0.184	0.206	0.201	0.194	0.162	0.136	0.1820	12.71
39)	C	chloroform	0.947	0.892	0.861	0.858	0.815	0.807	0.670	0.591	0.8052	14.68
40)		Tetrahydrofuran	0.888	0.874	0.778	0.833	0.822	0.824	0.745	0.638	0.8002	10.01
41)		2,2-dichloropropane	0.576	0.549	0.540	0.556	0.545	0.554	0.481	0.443	0.5306	8.44
42)	C	1,2-dichloroethane	0.688	0.557	0.507	0.499	0.476	0.456	0.357	0.304	0.4802	24.53
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.302	0.286	0.271	0.282	0.272	0.265	0.229	0.199	0.2631	12.70
45)		diisopropyl ether	0.156	0.148	0.143	0.150	0.146	0.147	0.131	0.115	0.1422	9.16
46)		tert-butyl ethyl ether	0.492	0.464	0.460	0.485	0.473	0.472	0.405	0.354	0.4508	10.43
47)	s	1,2-dichloroethane-D4	0.251	0.255	0.243	0.248	0.243	0.230	0.205	0.187	0.2329	10.50
48)	C	1,1,1-trichloroethane	0.234	0.225	0.209	0.217	0.214	0.215	0.184	0.162	0.2076	11.30
49)		1,1-dichloropropene	0.243	0.233	0.222	0.228	0.225	0.231	0.219	0.204	0.2256	5.03
50)	C	benzene	0.601	0.557	0.540	0.544	0.532	0.549	0.523	0.483	0.5410	6.16
51)		thiophene	0.387	0.355	0.341	0.380	0.374	0.350	0.317	0.287	0.3490	9.69
52)	C	carbon tetrachloride	0.193	0.184	0.181	0.188	0.186	0.189	0.164	0.150	0.1795	8.22
53)		cyclohexane	0.314	0.290	0.285	0.298	0.287	0.282	0.253	0.229	0.2799	9.53
54)		tert-amyl methyl ether	0.421	0.401	0.387	0.416	0.416	0.439	0.429	0.396	0.4133	4.20
55)		dibromomethane	0.196	0.179	0.173	0.177	0.173	0.176	0.155	0.133	0.1702	11.04
56)	C	1,2-dichloropropane	0.245	0.226	0.216	0.221	0.215	0.221	0.195	0.165	0.2129	11.21
57)		bromodichloromethane	0.247	0.239	0.237	0.262	0.261	0.257	0.227	0.208	0.2424	7.61
58)	C	1,4-dioxane	0.124	0.127	0.123	0.134	0.131	0.131	0.118	0.103	0.1237	7.92
59)	C	trichloroethene	0.262	0.246	0.241	0.245	0.241	0.248	0.224	0.193	0.2377	8.81
60)	C	2,2,4-trimethylpentane	1.004	0.940	0.888	0.916	0.884	0.857	0.746	0.646	0.8601	13.21
61)		methyl methacrylate		0.220	0.224	0.242	0.240	0.245	0.221	0.192	0.2264	8.08
62)		heptane	0.445	0.420	0.399	0.420	0.415	0.421	0.390	0.334	0.4056	8.17
63)	C	cis-1,3-dichloropropene	0.263	0.247	0.244	0.267	0.269	0.285	0.277	0.257	0.2637	5.36
64)	C	4-methyl-2-pentanone		0.451	0.455	0.500	0.495	0.507	0.469	0.407	0.4691	7.48
65)		trans-1,3-dichloropropene	0.194	0.190	0.187	0.207	0.213	0.225	0.217	0.204	0.2047	6.67
66)	C	1,1,2-trichloroethane	0.252	0.230	0.220	0.225	0.221	0.230	0.212	0.183	0.2217	8.79
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	6.206	5.724	5.609	5.644	5.611	5.968	5.532	4.745	5.6300	7.50
69)	s	toluene-D8	7.613	7.622	7.516	7.658	7.814	8.134	8.872	8.381	7.9513	5.98
70)		2-methylthiophene	5.141	4.679	4.574	5.142	5.164	5.081	4.925	4.210	4.8645	7.12
71)		1,3-dichloropropane	2.621	2.392	2.313	2.383	2.375	2.567	2.588	2.376	2.4518	4.88
72)		2-hexanone	3.154	3.304	3.356	3.882	3.945	4.215	4.062	3.363	3.6600	11.14

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20199**
Calibration dates	**: 07/25/23 09:10 07/25/23 13:51**		

Calibration Files

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50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	5.056	4.672	4.584	5.163	5.161	5.080	4.853	4.047	4.8272	7.96
74)		dibromochloromethane	2.032	1.936	2.005	2.312	2.407	2.554	2.434	2.131	2.2264	10.34
75)	C	1,2-dibromoethane	2.607	2.561	2.530	2.625	2.654	2.854	2.810	2.498	2.6425	4.85
76)		butyl acetate		0.458	0.505	0.581	0.621	0.672	0.731	0.686	0.6077	16.38
77)		octane	2.098	1.962	1.940	1.991	1.970	2.054	1.963	1.749	1.9659	5.22
78)	C	tetrachloroethene	2.604	2.411	2.299	2.340	2.263	2.421	2.329	2.027	2.3366	7.00
79)		1,1,1,2-tetrachloroethane	1.742	1.737	1.717	1.829	1.846	1.967	1.840	1.565	1.7804	6.67
80)	C	chlorobenzene	4.872	4.434	4.385	4.391	4.362	4.626	4.528	3.861	4.4326	6.47
81)	C	ethylbenzene	7.565	7.068	7.020	7.201	7.206	7.615	7.071	5.828	7.0719	7.79
82)		2-ethylthiophene	5.533	5.257	5.198	5.840	5.831	5.769	5.504	4.522	5.4316	8.14
83)	C	m+p-xylene	6.129	5.661	5.623	5.742	5.670	5.910	5.349	4.357	5.5550	9.62
84)	C	bromoform	1.534	1.485	1.504	1.896	2.018	2.219	2.203	1.919	1.8472	16.48
85)	C	styrene	4.573	4.385	4.354	4.558	4.606	5.052	5.103	4.360	4.6238	6.43
86)	C	1,1,2,2-tetrachloroethane	4.514	4.287	4.285	4.285	4.195	4.305	4.086	3.444	4.1752	7.64
87)	C	o-xylene	5.978	5.693	5.709	5.838	5.730	5.937	5.228	4.265	5.5474	10.22
88)		1,2,3-trichloropropane	3.180	3.063	2.949	2.976	2.988	3.186	3.254	2.968	3.0704	3.89
89)		nonane	5.212	4.867	4.775	5.080	5.197	5.710	5.549	4.465	5.1068	7.97
90)	s	bromofluorobenzene	4.552	4.664	4.779	4.827	4.848	5.051	5.624	5.309	4.9566	7.18
91)	C	isopropylbenzene	7.667	7.142	7.072	7.246	7.158	7.638	7.574	6.335	7.2288	6.00
92)		bromobenzene	4.298	3.951	3.910	3.937	3.876	4.118	4.123	3.693	3.9883	4.65
93)		2-chlorotoluene	2.307	2.184	2.149	2.207	2.291	2.481	2.418	2.072	2.2637	6.09
94)		n-propylbenzene	2.577	2.398	2.473	2.543	2.560	2.756	2.669	2.304	2.5352	5.68
95)		4-chlorotoluene	2.208	2.104	2.070	2.202	2.178	2.399	2.409	2.055	2.2031	6.20
96)		4-ethyl toluene	7.955	7.411	7.388	7.764	7.786	8.135	7.989	6.765	7.6492	5.81
97)		1,3,5-trimethylbenzene	7.073	6.583	6.442	6.553	6.545	6.968	6.823	5.728	6.5893	6.28
98)		tert-butylbenzene	7.465	7.174	6.989	7.219	7.069	7.150	6.543	5.297	6.8633	9.98
99)		1,2,4-trimethylbenzene	6.812	6.533	6.493	6.633	6.575	6.891	6.417	5.017	6.4215	9.18
100)		decane	6.186	5.839	5.715	5.809	5.739	5.822	5.266	4.427	5.6006	9.57
101)	C	Benzyl Chloride	2.247	2.205	2.428	3.302	3.869	4.285	4.506	3.892	3.3418	28.06
102)		1,3-dichlorobenzene	5.179	4.738	4.768	4.870	4.881	5.242	5.237	4.379	4.9118	6.07
103)	C	1,4-dichlorobenzene	5.121	4.857	4.733	4.864	4.881	5.281	5.247	4.441	4.9282	5.69
104)		sec-butylbenzene	1.021	0.940	0.941	0.935	0.940	0.991	0.969	0.801	0.9424	6.86
105)		1,2,3-trimethylbenzene	6.422	6.125	6.024	6.048	6.007	6.317	5.956	4.715	5.9519	8.83
106)		p-isopropyltoluene	9.009	8.601	8.435	8.693	8.565	8.612	7.943	6.335	8.2742	10.13
107)		1,2-dichlorobenzene	4.861	4.683	4.595	4.621	4.652	5.008	5.062	4.443	4.7407	4.54
108)		n-butylbenzene	7.595	7.288	7.364	7.626	7.653	8.019	7.495	6.337	7.4220	6.61

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20199**
Calibration dates	**: 07/25/23 09:10 07/25/23 13:51**		

Calibration Files
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50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	6.949	6.657	6.575	6.758	6.671	7.089	6.900	5.990	6.6985	4.98
110)		indene	4.240	4.174	4.194	4.403	4.448	4.723	4.818	4.366	4.4209	5.39
111)	C	1,2-dibromo-3-chloropropane	1.206	1.260	1.362	1.499	1.528	1.606	1.651	1.532	1.4554	11.09
112)		undecane	6.737	6.551	6.663	6.533	5.839	5.841	5.248	4.820	6.0291	11.85
113)		1,2,4,5-tetramethylbenzene	2.140	2.020	2.104	2.232	2.217	2.296	2.363	2.222	2.1993	4.96
114)		dodecane	6.863	6.993	7.043	6.981	6.598	6.233	5.587	4.839	6.3919	12.52
115)	C	1,2,4-trichlorobenzene	2.892	2.723	2.939	3.134	3.295	3.467	3.568	3.114	3.1415	9.25
116)		naphthalene	8.460	8.472	8.700	9.291	9.524	9.671	9.691	8.439	9.0310	6.29
117)		1,2,3-trichlorobenzene	2.717	2.700	2.720	2.890	2.951	3.069	3.196	2.870	2.8892	6.20
118)		benzothiophene	1.278	1.331	1.388	1.493	1.531	1.580	1.509	1.238	1.4182	8.97
119)	C	hexachlorobutadiene	2.621	2.477	2.437	2.493	2.421	2.419	2.383	2.025	2.4095	7.13
120)		2-methylnaphthalene			2.870	3.130	3.433	3.555	4.277	4.063	3.5546	15.12
121)		1-methylnaphthalene			4.264	5.291	5.619	4.324	5.086	4.670	4.8757	11.19

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Method File : TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D
50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.762	0.692	0.678	0.674	0.637	0.616	0.604	0.566	0.6537	9.33
3)		propylene		0.577	0.521	0.534	0.485	0.453	0.405	0.348	0.4749	16.66
4)		propane		0.501	0.479	0.451	0.416	0.406	0.395	0.373	0.4317	10.79
5)		dichlorodifluoromethane	0.921	0.864	0.824	0.830	0.703	0.647	0.601	0.541	0.7413	18.56
6)	C	chloromethane	0.518	0.452	0.435	0.440	0.402	0.387	0.369	0.342	0.4183	13.21
7)		Freon-114	1.085	0.982	0.953	0.955	0.863	0.808	0.741	0.652	0.8799	16.07
8)	C	methanol			0.185	0.173	0.162	0.156	0.150	0.142	0.1614	9.69
9)	C	vinyl chloride	0.517	0.468	0.448	0.449	0.407	0.381	0.355	0.322	0.4183	15.38
10)	C	1,3-butadiene	0.367	0.345	0.338	0.346	0.325	0.307	0.289	0.269	0.3231	10.10
11)		butane	1.007	0.894	0.837	0.829	0.761	0.698	0.623	0.534	0.7729	19.70
12)	C	acetaldehyde		0.252	0.239	0.226	0.209	0.200	0.187	0.171	0.2120	13.59
13)	C	bromomethane	0.430	0.419	0.396	0.394	0.364	0.343	0.309	0.275	0.3661	14.84
14)	C	chloroethane	0.268	0.222	0.220	0.215	0.201	0.191	0.172	0.151	0.2052	17.28
15)		ethanol			0.283	0.288	0.280	0.275	0.246	0.210	0.2637	11.41
16)		dichlorofluoromethane	0.903	0.843	0.802	0.808	0.756	0.707	0.620	0.536	0.7467	16.21
17)	C	vinyl bromide	0.434	0.418	0.396	0.407	0.385	0.368	0.320	0.274	0.3751	14.36
18)	C	acrolein		0.198	0.184	0.180	0.173	0.172	0.160	0.147	0.1736	9.53
19)		acetone	0.701	0.602	0.568	0.567	0.533	0.507	0.429	0.349	0.5322	20.19
20)	C	acetonitrile	0.541	0.456	0.438	0.445	0.420	0.406	0.355	0.298	0.4199	17.08
21)		trichlorofluoromethane	0.608	0.569	0.552	0.556	0.527	0.514	0.451	0.403	0.5225	12.77
22)		isopropyl alcohol	1.019	0.836	0.791	0.803	0.771	0.752	0.648	0.537	0.7696	18.19
23)	C	acrylonitrile	0.416	0.385	0.369	0.393	0.385	0.393	0.373	0.346	0.3827	5.39
24)		pentane	1.415	1.259	1.208	1.217	1.166	1.178	1.033	0.827	1.1630	14.81
25)		ethyl ether	0.785	0.736	0.693	0.716	0.691	0.693	0.622	0.567	0.6878	9.75
26)	C	1,1-dichloroethene	0.804	0.754	0.720	0.725	0.698	0.688	0.569	0.469	0.6785	15.92
27)		tertiary butyl alcohol		0.759	0.777	0.821	0.788	0.810	0.682	0.585	0.7460	11.32
28)	C	methylene chloride		0.642	0.591	0.580	0.562	0.578	0.545	0.500	0.5712	7.60
29)	C	3-chloropropene	0.909	0.835	0.804	0.865	0.839	0.839	0.738	0.612	0.8051	11.45
30)	C	carbon disulfide	1.466	1.376	1.363	1.513	1.514	1.529	1.387	1.184	1.4164	8.16
31)		Freon 113	1.089	1.033	0.978	0.981	0.937	0.954	0.827	0.682	0.9350	13.61

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Method File : TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D
50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	0.848	0.770	0.748	0.793	0.761	0.738	0.615	0.510	0.7230	14.97
33)	C	1,1-dichloroethane	1.074	1.023	0.972	0.994	0.956	0.957	0.803	0.669	0.9309	14.12
34)	C	MTBE	1.236	1.151	1.104	1.177	1.152	1.157	1.048	0.940	1.1206	8.10
35)	C	vinyl acetate			1.216	1.323	1.302	1.266	1.146	0.998	1.2087	10.03
36)	C	2-butanone		1.360	1.276	1.347	1.321	1.322	1.185	1.023	1.2621	9.54
37)		cis-1,2-dichloroethene	0.765	0.727	0.722	0.720	0.695	0.695	0.575	0.482	0.6726	14.13
38)		Ethyl Acetate	0.179	0.193	0.184	0.206	0.201	0.194	0.162	0.136	0.1820	12.71
39)	C	chloroform	0.947	0.892	0.861	0.858	0.815	0.807	0.670	0.591	0.8052	14.68
40)		Tetrahydrofuran	0.888	0.874	0.778	0.833	0.822	0.824	0.745	0.638	0.8002	10.01
41)		2,2-dichloropropane	0.576	0.549	0.540	0.556	0.545	0.554	0.481	0.443	0.5306	8.44
42)	C	1,2-dichloroethane	0.688	0.557	0.507	0.499	0.476	0.456	0.357	0.304	0.4802	24.53
43)	I	1,4-difluorobenzene	ISTD									
44)	C	hexane	0.302	0.286	0.271	0.282	0.272	0.265	0.229	0.199	0.2631	12.70
45)		diisopropyl ether	0.156	0.148	0.143	0.150	0.146	0.147	0.131	0.115	0.1422	9.16
46)		tert-butyl ethyl ether	0.492	0.464	0.460	0.485	0.473	0.472	0.405	0.354	0.4508	10.43
47)	s	1,2-dichloroethane-D4	0.251	0.255	0.243	0.248	0.243	0.230	0.205	0.187	0.2329	10.50
48)	C	1,1,1-trichloroethane	0.234	0.225	0.209	0.217	0.214	0.215	0.184	0.162	0.2076	11.30
49)		1,1-dichloropropene	0.243	0.233	0.222	0.228	0.225	0.231	0.219	0.204	0.2256	5.03
50)	C	benzene	0.601	0.557	0.540	0.544	0.532	0.549	0.523	0.483	0.5410	6.16
51)		thiophene	0.387	0.355	0.341	0.380	0.374	0.350	0.317	0.287	0.3490	9.69
52)	C	carbon tetrachloride	0.193	0.184	0.181	0.188	0.186	0.189	0.164	0.150	0.1795	8.22
53)		cyclohexane	0.314	0.290	0.285	0.298	0.287	0.282	0.253	0.229	0.2799	9.53
54)		tert-amyl methyl ether	0.421	0.401	0.387	0.416	0.416	0.439	0.429	0.396	0.4133	4.20
55)		dibromomethane	0.196	0.179	0.173	0.177	0.173	0.176	0.155	0.133	0.1702	11.04
56)	C	1,2-dichloropropane	0.245	0.226	0.216	0.221	0.215	0.221	0.195	0.165	0.2129	11.21
57)		bromodichloromethane	0.247	0.239	0.237	0.262	0.261	0.257	0.227	0.208	0.2424	7.61
58)	C	1,4-dioxane	0.124	0.127	0.123	0.134	0.131	0.131	0.118	0.103	0.1237	7.92
59)	C	trichloroethene	0.262	0.246	0.241	0.245	0.241	0.248	0.224	0.193	0.2377	8.81
60)	C	2,2,4-trimethylpentane	1.004	0.940	0.888	0.916	0.884	0.857	0.746	0.646	0.8601	13.21
61)		methyl methacrylate		0.220	0.224	0.242	0.240	0.245	0.221	0.192	0.2264	8.08
62)		heptane	0.445	0.420	0.399	0.420	0.415	0.421	0.390	0.334	0.4056	8.17

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Method File : TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D
50 =r1638444.D 100 =r1638445.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.263	0.247	0.244	0.267	0.269	0.285	0.277	0.257	0.2637	5.36
64)	C	4-methyl-2-pentanone		0.451	0.455	0.500	0.495	0.507	0.469	0.407	0.4691	7.48
65)		trans-1,3-dichloropropene	0.194	0.190	0.187	0.207	0.213	0.225	0.217	0.204	0.2047	6.67
66)	C	1,1,2-trichloroethane	0.252	0.230	0.220	0.225	0.221	0.230	0.212	0.183	0.2217	8.79
67)	I	chlorobenzene-D5	----------	ISTD	----------							
68)	C	toluene	6.206	5.724	5.609	5.644	5.611	5.968	5.532	4.745	5.6300	7.50
69)	s	toluene-D8	7.613	7.622	7.516	7.658	7.814	8.134	8.872	8.381	7.9513	5.98
70)		2-methylthiophene	5.141	4.679	4.574	5.142	5.164	5.081	4.925	4.210	4.8645	7.12
71)		1,3-dichloropropane	2.621	2.392	2.313	2.383	2.375	2.567	2.588	2.376	2.4518	4.88
72)		2-hexanone	3.154	3.304	3.356	3.882	3.945	4.215	4.062	3.363	3.6600	11.14
73)		3-methylthiophene	5.056	4.672	4.584	5.163	5.161	5.080	4.853	4.047	4.8272	7.96
74)		dibromochloromethane	2.032	1.936	2.005	2.312	2.407	2.554	2.434	2.131	2.2264	10.34
75)	C	1,2-dibromoethane	2.607	2.561	2.530	2.625	2.654	2.854	2.810	2.498	2.6425	4.85
76)		butyl acetate		0.458	0.505	0.581	0.621	0.672	0.731	0.686	0.6077	16.38
77)		octane	2.098	1.962	1.940	1.991	1.970	2.054	1.963	1.749	1.9659	5.22
78)	C	tetrachloroethene	2.604	2.411	2.299	2.340	2.263	2.421	2.329	2.027	2.3366	7.00
79)		1,1,1,2-tetrachloroethane	1.742	1.737	1.717	1.829	1.846	1.967	1.840	1.565	1.7804	6.67
80)	C	chlorobenzene	4.872	4.434	4.385	4.391	4.362	4.626	4.528	3.861	4.4326	6.47
81)	C	ethylbenzene	7.565	7.068	7.020	7.201	7.206	7.615	7.071	5.828	7.0719	7.79
82)		2-ethylthiophene	5.533	5.257	5.198	5.840	5.831	5.769	5.504	4.522	5.4316	8.14
83)	C	m+p-xylene	6.129	5.661	5.623	5.742	5.670	5.910	5.349	4.357	5.5550	9.62
84)	C	bromoform	1.534	1.485	1.504	1.896	2.018	2.219	2.203	1.919	1.8472	16.48
85)	C	styrene	4.573	4.385	4.354	4.558	4.606	5.052	5.103	4.360	4.6238	6.43
86)	C	1,1,2,2-tetrachloroethane	4.514	4.287	4.285	4.285	4.195	4.305	4.086	3.444	4.1752	7.64
87)	C	o-xylene	5.978	5.693	5.709	5.838	5.730	5.937	5.228	4.265	5.5474	10.22
88)		1,2,3-trichloropropane	3.180	3.063	2.949	2.976	2.988	3.186	3.254	2.968	3.0704	3.89
89)		nonane	5.212	4.867	4.775	5.080	5.197	5.710	5.549	4.465	5.1068	7.97
90)	s	bromofluorobenzene	4.552	4.664	4.779	4.827	4.848	5.051	5.624	5.309	4.9566	7.18
91)	C	isopropylbenzene	7.667	7.142	7.072	7.246	7.158	7.638	7.574	6.335	7.2288	6.00
92)		bromobenzene	4.298	3.951	3.910	3.937	3.876	4.118	4.123	3.693	3.9883	4.65
93)		2-chlorotoluene	2.307	2.184	2.149	2.207	2.291	2.481	2.418	2.072	2.2637	6.09

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Method File : TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023
Response Via : Initial Calibration

Calibration Files
0.2 =r1638438.D 0.5 =r1638439.D 1.0 =r1638440.D 5.0 =r1638441.D 10 =r1638442.D 20 =r1638443.D
50 =r1638444.D 100 =r1638445.D

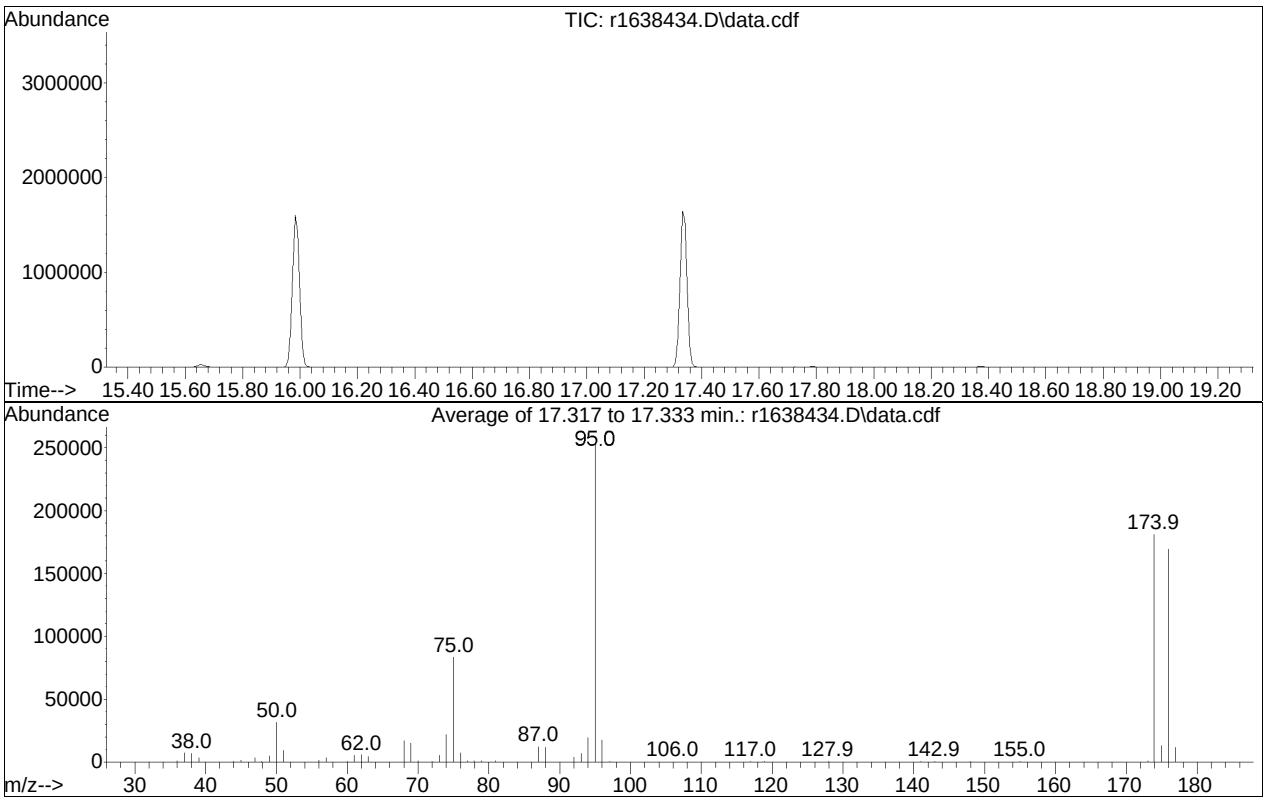
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.577	2.398	2.473	2.543	2.560	2.756	2.669	2.304	2.5352	5.68
95)		4-chlorotoluene	2.208	2.104	2.070	2.202	2.178	2.399	2.409	2.055	2.2031	6.20
96)		4-ethyl toluene	7.955	7.411	7.388	7.764	7.786	8.135	7.989	6.765	7.6492	5.81
97)		1,3,5-trimethylbenzene	7.073	6.583	6.442	6.553	6.545	6.968	6.823	5.728	6.5893	6.28
98)		tert-butylbenzene	7.465	7.174	6.989	7.219	7.069	7.150	6.543	5.297	6.8633	9.98
99)		1,2,4-trimethylbenzene	6.812	6.533	6.493	6.633	6.575	6.891	6.417	5.017	6.4215	9.18
100)		decane	6.186	5.839	5.715	5.809	5.739	5.822	5.266	4.427	5.6006	9.57
101)	C	Benzyl Chloride	2.247	2.205	2.428	3.302	3.869	4.285	4.506	3.892	3.3418	28.06
102)		1,3-dichlorobenzene	5.179	4.738	4.768	4.870	4.881	5.242	5.237	4.379	4.9118	6.07
103)	C	1,4-dichlorobenzene	5.121	4.857	4.733	4.864	4.881	5.281	5.247	4.441	4.9282	5.69
104)		sec-butylbenzene	1.021	0.940	0.941	0.935	0.940	0.991	0.969	0.801	0.9424	6.86
105)		1,2,3-trimethylbenzene	6.422	6.125	6.024	6.048	6.007	6.317	5.956	4.715	5.9519	8.83
106)		p-isopropyltoluene	9.009	8.601	8.435	8.693	8.565	8.612	7.943	6.335	8.2742	10.13
107)		1,2-dichlorobenzene	4.861	4.683	4.595	4.621	4.652	5.008	5.062	4.443	4.7407	4.54
108)		n-butylbenzene	7.595	7.288	7.364	7.626	7.653	8.019	7.495	6.337	7.4220	6.61
109)		indan	6.949	6.657	6.575	6.758	6.671	7.089	6.900	5.990	6.6985	4.98
110)		indene	4.240	4.174	4.194	4.403	4.448	4.723	4.818	4.366	4.4209	5.39
111)	C	1,2-dibromo-3-chloropropane	1.206	1.260	1.362	1.499	1.528	1.606	1.651	1.532	1.4554	11.09
112)		undecane	6.737	6.551	6.663	6.533	5.839	5.841	5.248	4.820	6.0291	11.85
113)		1,2,4,5-tetramethylbenzene	2.140	2.020	2.104	2.232	2.217	2.296	2.363	2.222	2.1993	4.96
114)		dodecane	6.863	6.993	7.043	6.981	6.598	6.233	5.587	4.839	6.3919	12.52
115)	C	1,2,4-trichlorobenzene	2.892	2.723	2.939	3.134	3.295	3.467	3.568	3.114	3.1415	9.25
116)		naphthalene	8.460	8.472	8.700	9.291	9.524	9.671	9.691	8.439	9.0310	6.29
117)		1,2,3-trichlorobenzene	2.717	2.700	2.720	2.890	2.951	3.069	3.196	2.870	2.8892	6.20
118)		benzothiophene	1.278	1.331	1.388	1.493	1.531	1.580	1.509	1.238	1.4182	8.97
119)	C	hexachlorobutadiene	2.621	2.477	2.437	2.493	2.421	2.419	2.383	2.025	2.4095	7.13
120)		2-methylnaphthalene			2.870	3.130	3.433	3.555	4.277	4.063	3.5546	15.12
121)		1-methylnaphthalene			4.264	5.291	5.619	4.324	5.086	4.670	4.8757	11.19

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638434.D
Acq On : 25 Jul 2023 6:41 AM
Operator : AIRLAB16:APR
Sample : WG1807898-1
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023



Spectrum Information: Average of 17.317 to 17.333 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.5	31741	PASS
75	95	30	66	33.0	83724	PASS
95	95	100	100	100.0	254038	PASS
96	95	5	9	7.0	17814	PASS
173	174	0.00	2	0.6	1014	PASS
174	95	50	120	71.2	180984	PASS
175	174	4	9	7.3	13257	PASS
176	174	93	101	93.7	169551	PASS
177	176	5	9	6.9	11717	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638438.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.2
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:44 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	207911	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 98.53%			
43) 1,4-difluorobenzene	11.307	114	673479	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 99.49%			
67) chlorobenzene-D5	15.983	54	81940	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 101.71%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.950	65	169339	10.348	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.48%			
69) toluene-D8	14.133	98	623784	9.742	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.42%			
90) bromofluorobenzene	17.342	95	373016	9.389	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.89%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.928	51	3168	0.239	ppbV	98
3) propylene	3.958	41	2430M6	0.241	ppbV	
4) propane	3.982	29	2459	0.284	ppbV #	92
5) dichlorodifluoromethane	4.030	85	3831	0.262	ppbV	100
6) chloromethane	4.192	50	2154	0.258	ppbV	96
7) Freon-114	4.300	85	4511	0.251	ppbV	96
8) methanol	4.354	31	4459	1.320	ppbV #	9
9) vinyl chloride	4.420	62	2150	0.254	ppbV	98
10) 1,3-butadiene	4.564	54	1525	0.226	ppbV #	80
11) butane	4.624	43	4189	0.265	ppbV	97
12) acetaldehyde	4.318	29	5855	1.349	ppbV #	76
13) bromomethane	4.846	94	1790	0.237	ppbV	99
14) chloroethane	5.038	64	1115	0.267	ppbV	98
15) ethanol	5.158	31	6669	1.144	ppbV	95
16) dichlorofluoromethane	5.146	67	3754	0.239	ppbV #	97
17) vinyl bromide	5.413	106	1806	0.226	ppbV	100
18) acrolein	5.537	56	875	0.244	ppbV #	55
19) acetone	5.677	43	14583	1.316	ppbV #	95
20) acetonitrile	5.390	41	2249	0.257	ppbV #	84
21) trichlorofluoromethane	5.867	101	2530	0.231	ppbV	94
22) isopropyl alcohol	5.950	45	10591	0.661	ppbV #	95
23) acrylonitrile	6.187	53	1731	0.216	ppbV #	93
24) pentane	6.263	43	5885	0.243	ppbV #	95

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638438.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.2
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:44 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.287	31	3264	0.227	ppbV		97
26) 1,1-dichloroethene	6.564	61	3344	0.231	ppbV		96
27) tertiary butyl alcohol	6.612	59	3311	0.202	ppbV	#	85
28) methylene chloride	6.702	49	3091	0.265	ppbV		95
29) 3-chloropropene	6.834	41	3781	0.217	ppbV		92
30) carbon disulfide	7.008	76	6097	0.194	ppbV	#	65
31) Freon 113	7.002	101	4529	0.232	ppbV		96
32) trans-1,2-dichloroethene	7.742	61	3526	0.223	ppbV		98
33) 1,1-dichloroethane	7.967	63	4464	0.225	ppbV		98
34) MTBE	8.042	73	5139	0.215	ppbV		98
35) vinyl acetate	8.150	43	5806	0.214	ppbV		97
36) 2-butanone	8.417	43	5782	0.211	ppbV		95
37) cis-1,2-dichloroethene	8.908	61	3180	0.220	ppbV		96
38) Ethyl Acetate	9.175	61	743	0.178	ppbV		81
39) chloroform	9.250	83	3937	0.232	ppbV		97
40) Tetrahydrofuran	9.700	42	3691	0.216	ppbV		95
41) 2,2-dichloropropane	9.267	77	2397	0.211	ppbV		96
42) 1,2-dichloroethane	10.075	62	2860	0.289	ppbV		97
44) hexane	9.158	57	4066	0.222	ppbV	#	61
45) diisopropyl ether	9.158	87	2101	0.214	ppbV		92
46) tert-butyl ethyl ether	9.767	59	6623	0.208	ppbV		99
48) 1,1,1-trichloroethane	10.367	97	3157	0.219	ppbV		94
49) 1,1-dichloropropene	10.727	75	3268	0.216	ppbV		96
50) benzene	10.887	78	8100	0.226	ppbV		95
51) thiophene	11.033	84	5217	0.207	ppbV		99
52) carbon tetrachloride	11.060	117	2605	0.208	ppbV		98
53) cyclohexane	11.207	56	4228	0.219	ppbV		94
54) tert-amyl methyl ether	11.580	73	5677	0.203	ppbV		96
55) dibromomethane	11.800	93	2640	0.227	ppbV		92
56) 1,2-dichloropropane	11.833	63	3306	0.228	ppbV	#	95
57) bromodichloromethane	12.053	83	3329	0.190	ppbV	#	96
58) 1,4-dioxane	12.107	88	1672	0.190	ppbV		88
59) trichloroethene	12.107	130	3535	0.218	ppbV		97
60) 2,2,4-trimethylpentane	12.153	57	13524	0.227	ppbV		98
61) methyl methacrylate	12.347	41	3056	0.189	ppbV		93
62) heptane	12.467	43	6000	0.215	ppbV		100
63) cis-1,3-dichloropropene	13.117	75	3538	0.195	ppbV		93
64) 4-methyl-2-pentanone	13.158	43	5936	0.178	ppbV		97
65) trans-1,3-dichloropropene	13.733	75	2612	0.182	ppbV		99
66) 1,1,2-trichloroethane	13.933	97	3400	0.228	ppbV		99

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638438.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.2
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:44 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.250	91	10171	0.221	ppbV		100
70) 2-methylthiophene	14.317	97	8425	0.199	ppbV		95
71) 1,3-dichloropropane	14.275	76	4296	0.221	ppbV		98
72) 2-hexanone	14.533	43	5168	0.160	ppbV		98
73) 3-methylthiophene	14.508	97	8285	0.196	ppbV		95
74) dibromochloromethane	14.692	129	3330	0.169	ppbV		99
75) 1,2-dibromoethane	14.942	107	4273	0.197	ppbV		98
76) butyl acetate	15.183	73	598	0.117	ppbV	#	55
77) octane	15.267	85	3439	0.213	ppbV		96
78) tetrachloroethene	15.392	166	4268	0.230	ppbV		99
79) 1,1,1,2-tetrachloroethane	16.008	131	2854	0.189	ppbV		96
80) chlorobenzene	16.025	112	7985	0.223	ppbV		99
81) ethylbenzene	16.367	91	12398	0.210	ppbV		99
82) 2-ethylthiophene	16.400	97	9068	0.190	ppbV		100
83) m+p-xylene	16.525	91	20087	0.432	ppbV		98
84) bromoform	16.592	173	2514	0.152	ppbV		100
85) styrene	16.850	104	7495	0.199	ppbV		97
86) 1,1,2,2-tetrachloroethane	16.942	83	7398	0.215	ppbV		99
87) o-xylene	16.942	91	9797	0.209	ppbV		98
88) 1,2,3-trichloropropane	17.058	75	5212	0.213	ppbV		96
89) nonane	17.133	43	8542	0.201	ppbV		89
91) isopropylbenzene	17.458	105	12564	0.214	ppbV		98
92) bromobenzene	17.533	77	7043	0.222	ppbV		99
93) 2-chlorotoluene	17.867	126	3781	0.201	ppbV		96
94) n-propylbenzene	17.900	120	4224	0.201	ppbV		96
95) 4-chlorotoluene	17.933	126	3619	0.203	ppbV		96
96) 4-ethyl toluene	18.017	105	13037	0.204	ppbV		98
97) 1,3,5-trimethylbenzene	18.083	105	11591	0.216	ppbV		98
98) tert-butylbenzene	18.433	119	12234	0.211	ppbV		95
99) 1,2,4-trimethylbenzene	18.433	105	11163	0.207	ppbV		96
100) decane	18.508	57	10138	0.216	ppbV		91
101) Benzyl Chloride	18.558	91	3682	0.116	ppbV		90
102) 1,3-dichlorobenzene	18.567	146	8487	0.212	ppbV		97
103) 1,4-dichlorobenzene	18.625	146	8392	0.210	ppbV		99
104) sec-butylbenzene	18.658	105	16736	0.217	ppbV		97
105) 1,2,3-trimethylbenzene	18.792	105	10525	0.214	ppbV		99
106) p-isopropyltoluene	18.792	119	14764	0.210	ppbV		98
107) 1,2-dichlorobenzene	18.917	146	7967	0.209	ppbV		98
108) n-butylbenzene	19.158	91	12446	0.198	ppbV		94
109) indan	18.975	117	11388	0.208	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638438.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.2
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:44 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

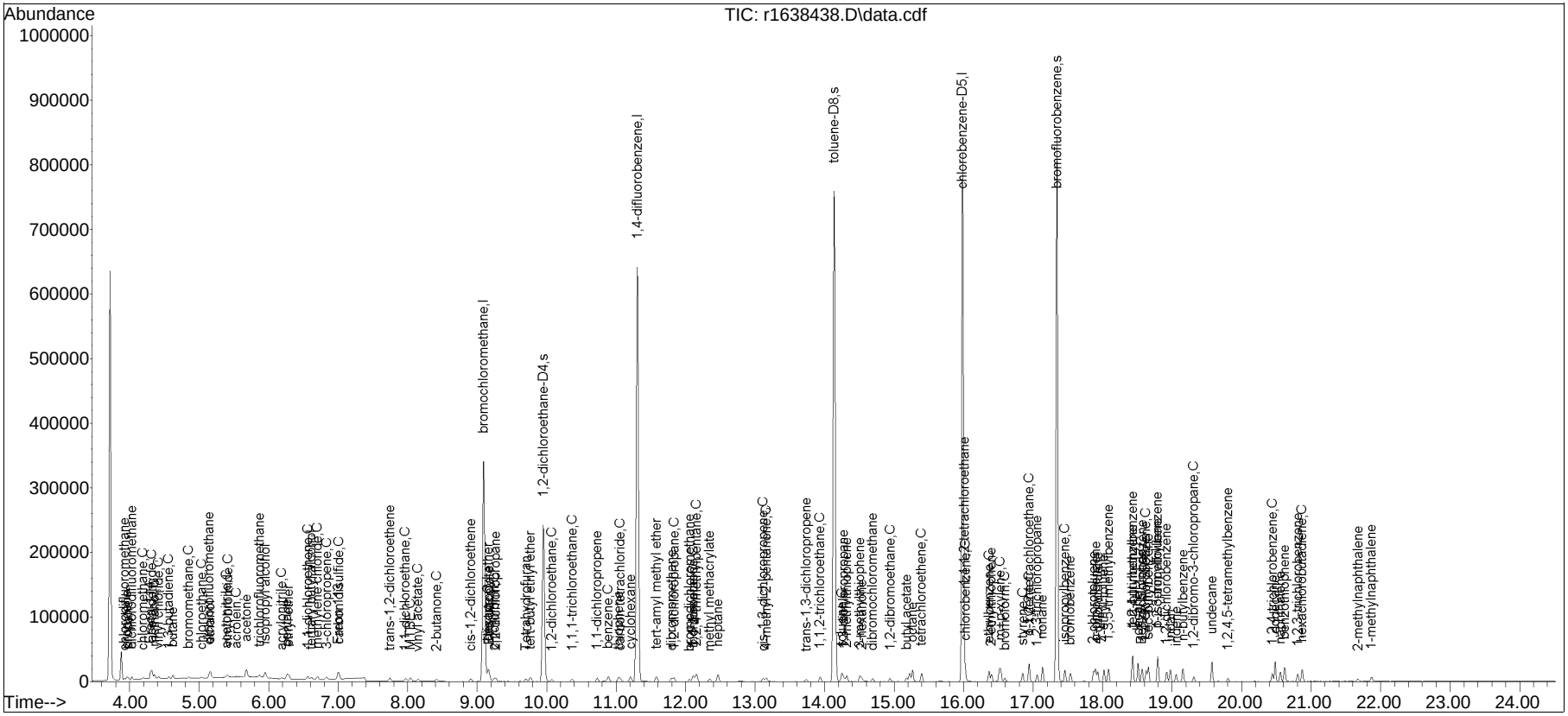
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.058	115	6948	0.191	ppbV		97
111) 1,2-dibromo-3-chloropr...	19.308	75	1977	0.158	ppbV	#	84
112) undecane	19.575	57	11041	0.231	ppbV		83
113) 1,2,4,5-tetramethylben...	19.800	119	3507	0.193	ppbV		98
114) dodecane	20.483	57	11247	0.208	ppbV		89
115) 1,2,4-trichlorobenzene	20.442	180	4739	0.176	ppbV		97
116) naphthalene	20.558	128	13864	0.178	ppbV		98
117) 1,2,3-trichlorobenzene	20.808	180	4453	0.184	ppbV	#	94
118) benzothiophene	20.617	134	20938	0.167	ppbV		99
119) hexachlorobutadiene	20.867	225	4296	0.217	ppbV		90
120) 2-methylnaphthalene	21.675	142	3314	0.118	ppbV	#	95
121) 1-methylnaphthalene	21.867	142	5494	0.119	ppbV		98

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638438.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.2
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:44 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

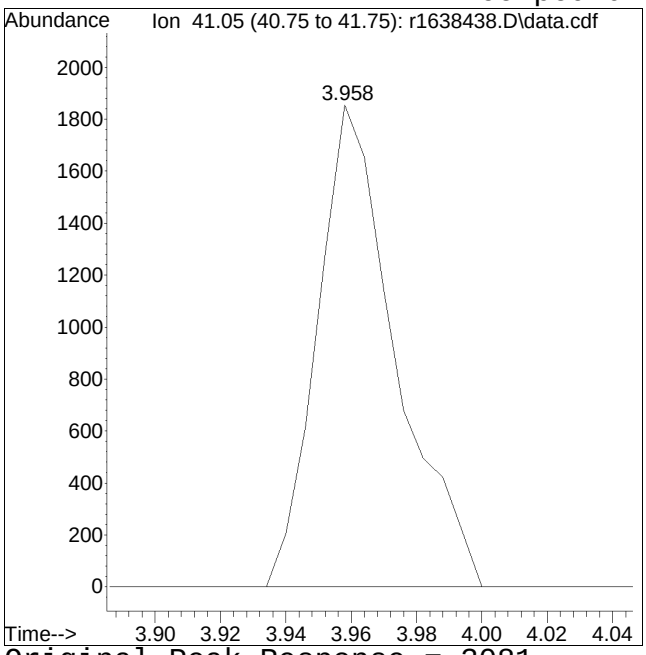


Manual Integration Report

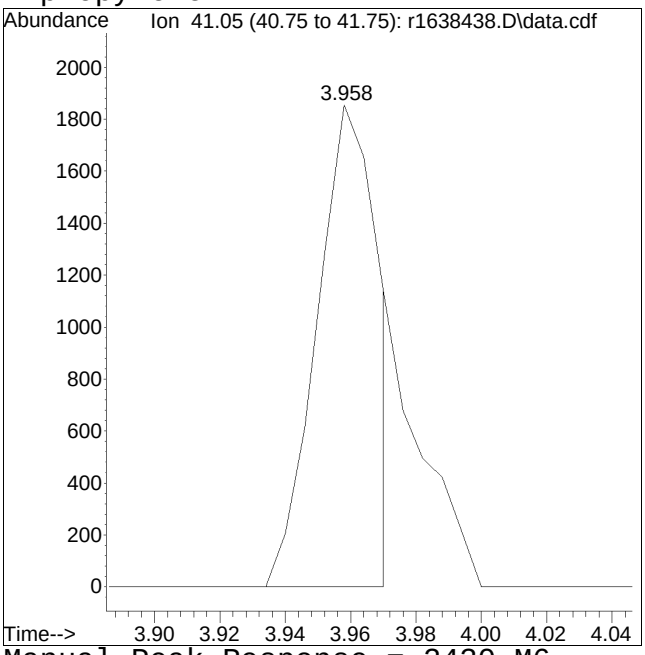
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638438.D
Date Inj'd : 7/25/2020 0:9: 0
Sample : ITO15-LLSTD0.2

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/25/2023 9:52 pm

Compound #3: propylene



Original Peak Response = 3081



Manual Peak Response = 2430 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638439.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.5
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:51 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	204730	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 97.02%			
43) 1,4-difluorobenzene	11.307	114	663535	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 98.03%			
67) chlorobenzene-D5	15.983	54	82046	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 101.84%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.950	65	169158	10.492	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.92%			
69) toluene-D8	14.133	98	625330	9.753	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.53%			
90) bromofluorobenzene	17.342	95	382638	9.619	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.19%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.922	51	7085	0.543	ppbV	95
3) propylene	3.952	41	5908M6	0.595	ppbV	
4) propane	3.976	29	5129	0.602	ppbV	92
5) dichlorodifluoromethane	4.024	85	8842	0.615	ppbV	100
6) chloromethane	4.186	50	4632	0.563	ppbV	99
7) Freon-114	4.294	85	10053	0.569	ppbV	99
8) methanol	4.348	31	9766	2.937	ppbV #	62
9) vinyl chloride	4.414	62	4794	0.575	ppbV	96
10) 1,3-butadiene	4.564	54	3527	0.531	ppbV	95
11) butane	4.618	43	9154	0.587	ppbV	99
12) acetaldehyde	4.312	29	12900	3.018	ppbV	89
13) bromomethane	4.846	94	4284	0.575	ppbV	99
14) chloroethane	5.032	64	2276	0.553	ppbV	97
15) ethanol	5.152	31	15088	2.628	ppbV	99
16) dichlorofluoromethane	5.140	67	8627	0.558	ppbV	99
17) vinyl bromide	5.410	106	4280	0.543	ppbV	93
18) acrolein	5.530	56	2031	0.575	ppbV #	83
19) acetone	5.670	43	30824	2.825	ppbV #	100
20) acetonitrile	5.383	41	4663	0.542	ppbV #	85
21) trichlorofluoromethane	5.863	101	5826	0.540	ppbV	99
22) isopropyl alcohol	5.940	45	21385	1.355	ppbV	99
23) acrylonitrile	6.183	53	3944	0.500	ppbV	97
24) pentane	6.260	43	12888	0.540	ppbV	97

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638439.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.5
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:51 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.287	31	7534	0.533	ppbV		97
26) 1,1-dichloroethene	6.558	61	7719	0.540	ppbV		100
27) tertiary butyl alcohol	6.600	59	7772	0.482	ppbV		97
28) methylene chloride	6.696	49	6573	0.572	ppbV		97
29) 3-chloropropene	6.828	41	8550	0.498	ppbV		94
30) carbon disulfide	7.002	76	14086	0.455	ppbV	#	83
31) Freon 113	6.996	101	10570	0.551	ppbV		97
32) trans-1,2-dichloroethene	7.742	61	7882	0.506	ppbV		98
33) 1,1-dichloroethane	7.967	63	10475	0.535	ppbV		100
34) MTBE	8.033	73	11782	0.500	ppbV		97
35) vinyl acetate	8.150	43	12848	0.482	ppbV		98
36) 2-butanone	8.408	43	13921	0.515	ppbV		99
37) cis-1,2-dichloroethene	8.908	61	7441	0.523	ppbV		96
38) Ethyl Acetate	9.175	61	1980	0.481	ppbV		64
39) chloroform	9.242	83	9132	0.547	ppbV		99
40) Tetrahydrofuran	9.692	42	8948	0.532	ppbV		98
41) 2,2-dichloropropane	9.267	77	5620	0.503	ppbV		92
42) 1,2-dichloroethane	10.075	62	5697	0.585	ppbV		98
44) hexane	9.158	57	9492	0.527	ppbV	#	70
45) diisopropyl ether	9.158	87	4926	0.509	ppbV		90
46) tert-butyl ethyl ether	9.758	59	15404	0.491	ppbV		99
48) 1,1,1-trichloroethane	10.367	97	7476	0.527	ppbV		98
49) 1,1-dichloropropene	10.727	75	7744	0.519	ppbV		99
50) benzene	10.887	78	18467	0.523	ppbV		96
51) thiophene	11.033	84	11774	0.475	ppbV		99
52) carbon tetrachloride	11.060	117	6116	0.495	ppbV		100
53) cyclohexane	11.207	56	9619	0.505	ppbV		98
54) tert-amyl methyl ether	11.573	73	13314	0.482	ppbV		100
55) dibromomethane	11.793	93	5933	0.518	ppbV		99
56) 1,2-dichloropropane	11.827	63	7486	0.525	ppbV		98
57) bromodichloromethane	12.060	83	7940	0.459	ppbV		97
58) 1,4-dioxane	12.100	88	4210	0.485	ppbV		96
59) trichloroethene	12.107	130	8168	0.510	ppbV		97
60) 2,2,4-trimethylpentane	12.153	57	31195	0.532	ppbV		98
61) methyl methacrylate	12.347	41	7312	0.459	ppbV		99
62) heptane	12.467	43	13940	0.507	ppbV		96
63) cis-1,3-dichloropropene	13.117	75	8190	0.458	ppbV		94
64) 4-methyl-2-pentanone	13.150	43	14960	0.456	ppbV		98
65) trans-1,3-dichloropropene	13.733	75	6304	0.445	ppbV		96
66) 1,1,2-trichloroethane	13.933	97	7637	0.520	ppbV		96

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638439.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.5
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:51 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	23481	0.510	ppbV	100
70) 2-methylthiophene	14.317	97	19196	0.453	ppbV	99
71) 1,3-dichloropropane	14.275	76	9812	0.504	ppbV	99
72) 2-hexanone	14.533	43	13555	0.419	ppbV	98
73) 3-methylthiophene	14.508	97	19167	0.453	ppbV	99
74) dibromochloromethane	14.692	129	7942	0.402	ppbV	96
75) 1,2-dibromoethane	14.942	107	10508	0.483	ppbV	94
76) butyl acetate	15.175	73	1877	0.368	ppbV	92
77) octane	15.267	85	8049	0.498	ppbV	97
78) tetrachloroethene	15.392	166	9889	0.533	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.008	131	7127	0.471	ppbV	95
80) chlorobenzene	16.025	112	18190	0.508	ppbV	98
81) ethylbenzene	16.367	91	28997	0.490	ppbV	99
82) 2-ethylthiophene	16.400	97	21565	0.451	ppbV	98
83) m+p-xylene	16.525	91	46449	0.999	ppbV	99
84) bromoform	16.592	173	6092	0.368	ppbV	97
85) styrene	16.842	104	17988	0.476	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.942	83	17587	0.511	ppbV	100
87) o-xylene	16.942	91	23356	0.497	ppbV	98
88) 1,2,3-trichloropropane	17.050	75	12565	0.513	ppbV	100
89) nonane	17.133	43	19967	0.468	ppbV	95
91) isopropylbenzene	17.458	105	29297	0.499	ppbV	95
92) bromobenzene	17.533	77	16210	0.510	ppbV	99
93) 2-chlorotoluene	17.867	126	8959	0.477	ppbV	95
94) n-propylbenzene	17.892	120	9839	0.468	ppbV	94
95) 4-chlorotoluene	17.925	126	8631	0.483	ppbV	97
96) 4-ethyl toluene	18.017	105	30403	0.476	ppbV	96
97) 1,3,5-trimethylbenzene	18.083	105	27006	0.503	ppbV	99
98) tert-butylbenzene	18.425	119	29429	0.507	ppbV	97
99) 1,2,4-trimethylbenzene	18.433	105	26801	0.497	ppbV	98
100) decane	18.508	57	23953	0.509	ppbV	91
101) Benzyl Chloride	18.550	91	9046	0.285	ppbV	99
102) 1,3-dichlorobenzene	18.567	146	19438	0.485	ppbV	97
103) 1,4-dichlorobenzene	18.625	146	19926	0.498	ppbV	98
104) sec-butylbenzene	18.658	105	38578	0.500	ppbV	98
105) 1,2,3-trimethylbenzene	18.792	105	25127	0.510	ppbV	93
106) p-isopropyltoluene	18.792	119	35284	0.502	ppbV	97
107) 1,2-dichlorobenzene	18.917	146	19213	0.503	ppbV	98
108) n-butylbenzene	19.150	91	29896	0.476	ppbV	99
109) indan	18.975	117	27307	0.499	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638439.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.5
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:51 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

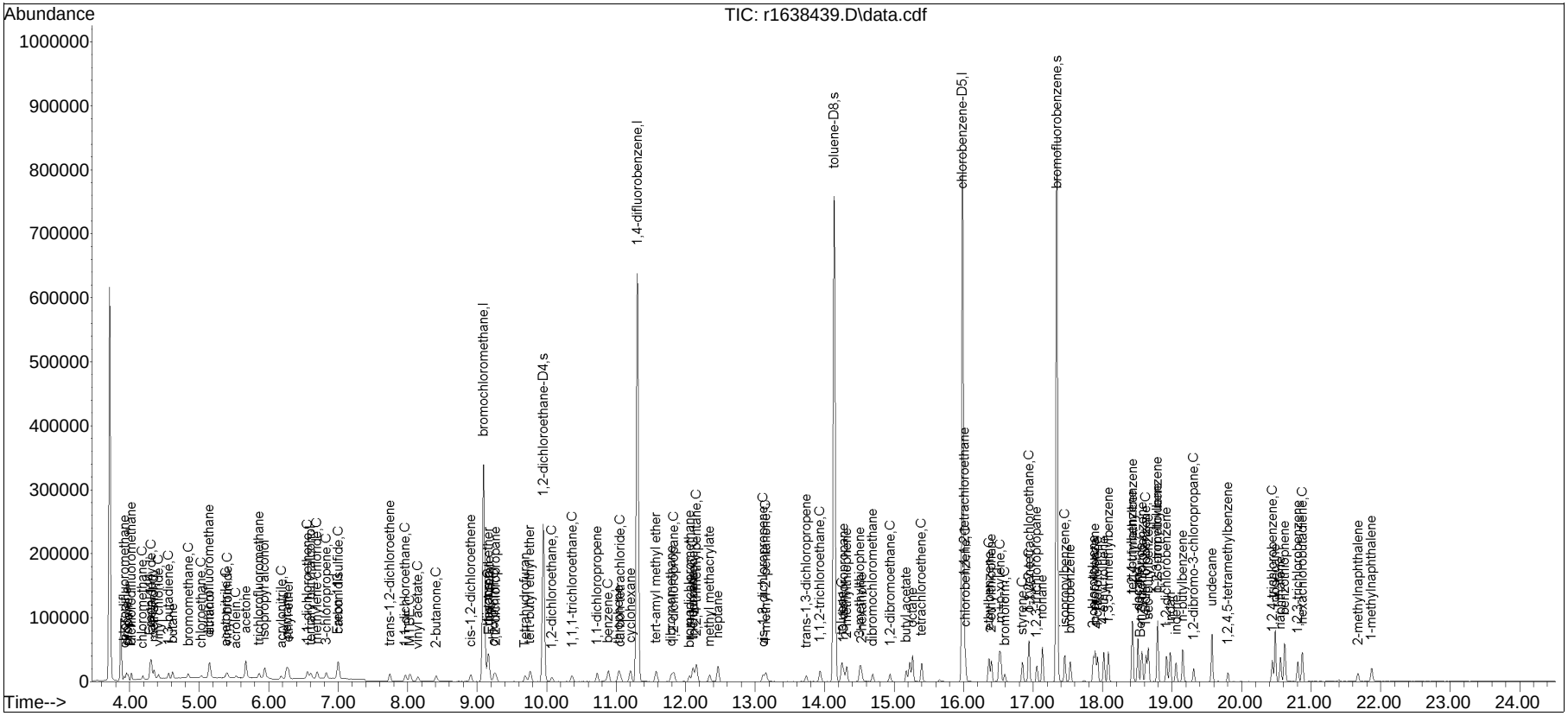
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.058	115	17125	0.469	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.308	75	5170	0.413	ppbV	#	89
112) undecane	19.575	57	26876	0.561	ppbV	#	82
113) 1,2,4,5-tetramethylben...	19.800	119	8285	0.456	ppbV		97
114) dodecane	20.483	57	28688	0.530	ppbV		84
115) 1,2,4-trichlorobenzene	20.442	180	11172	0.413	ppbV		93
116) naphthalene	20.558	128	34753	0.445	ppbV		99
117) 1,2,3-trichlorobenzene	20.808	180	11077	0.458	ppbV		93
118) benzothiophene	20.617	134	54606	0.435	ppbV		100
119) hexachlorobutadiene	20.875	225	10160	0.511	ppbV	#	93
120) 2-methylnaphthalene	21.675	142	10212	0.363	ppbV		96
121) 1-methylnaphthalene	21.867	142	15997	0.347	ppbV		96

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638439.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD0.5
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:51 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

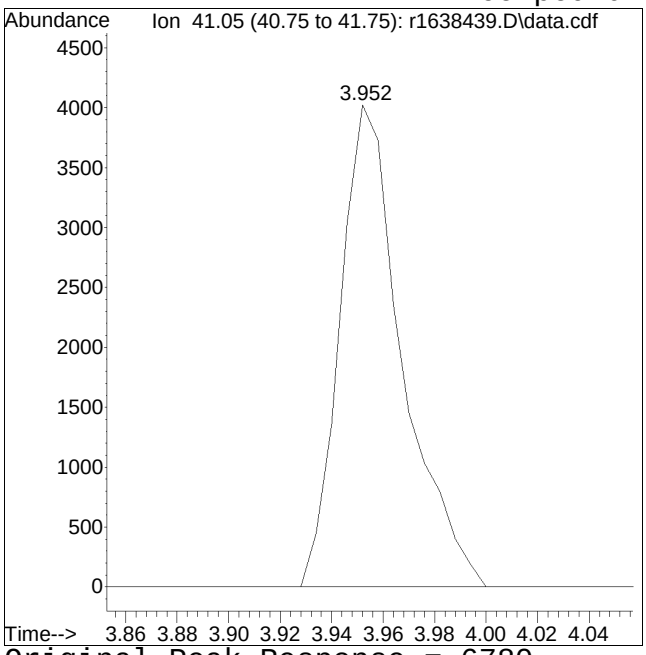


Manual Integration Report

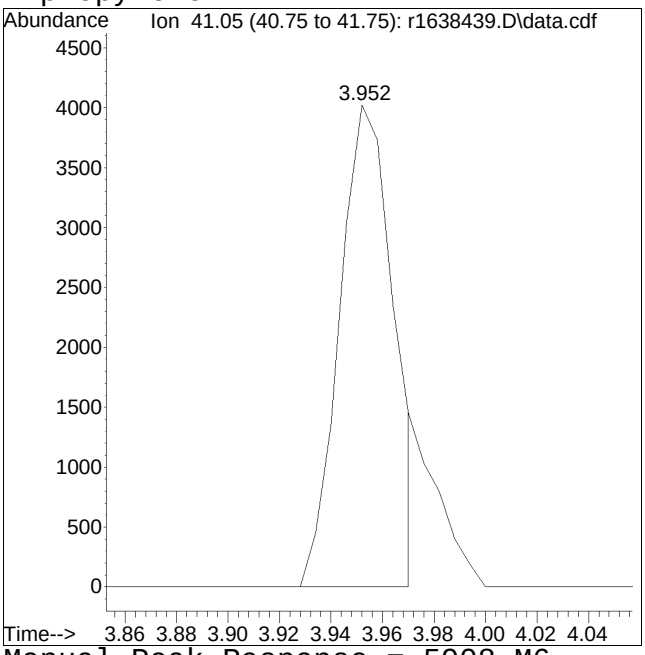
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638439.D
Date Inj'd : 7/25/2020 0:9: 0
Sample : ITO15-LLSTD0.5

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/25/2023 9:52 pm

Compound #3: propylene



Original Peak Response = 6780



Manual Peak Response = 5908 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638440.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD1.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:58 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	208836	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 98.97%			
43) 1,4-difluorobenzene	11.307	114	677279	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 100.06%			
67) chlorobenzene-D5	15.983	54	82295	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 102.15%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.950	65	164732	10.010	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.10%			
69) toluene-D8	14.142	98	618531	9.618	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.18%			
90) bromofluorobenzene	17.342	95	393262	9.856	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.56%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.922	51	14167	1.065	ppbV	96
3) propylene	3.952	41	10880M6	1.073	ppbV	
4) propane	3.976	29	9996	1.149	ppbV #	93
5) dichlorodifluoromethane	4.024	85	17213	1.173	ppbV	99
6) chloromethane	4.192	50	9093	1.084	ppbV	98
7) Freon-114	4.294	85	19894	1.104	ppbV	99
8) methanol	4.348	31	19340	5.702	ppbV #	85
9) vinyl chloride	4.420	62	9358	1.100	ppbV	98
10) 1,3-butadiene	4.564	54	7050	1.040	ppbV	98
11) butane	4.618	43	17472	1.099	ppbV	98
12) acetaldehyde	4.312	29	24941	5.721	ppbV	87
13) bromomethane	4.840	94	8275	1.090	ppbV	98
14) chloroethane	5.032	64	4604	1.097	ppbV	99
15) ethanol	5.152	31	29532	5.043	ppbV	98
16) dichlorofluoromethane	5.140	67	16740	1.061	ppbV	98
17) vinyl bromide	5.407	106	8261	1.028	ppbV	94
18) acrolein	5.530	56	3843	1.066	ppbV #	90
19) acetone	5.670	43	59360	5.333	ppbV #	98
20) acetonitrile	5.387	41	9154	1.043	ppbV	92
21) trichlorofluoromethane	5.867	101	11535	1.049	ppbV	96
22) isopropyl alcohol	5.943	45	41297	2.565	ppbV	98
23) acrylonitrile	6.183	53	7709	0.959	ppbV	99
24) pentane	6.260	43	25235	1.036	ppbV	99

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638440.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD1.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:58 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.283	31	14468	1.003	ppbV		99
26) 1,1-dichloroethene	6.564	61	15043	1.033	ppbV		99
27) tertiary butyl alcohol	6.600	59	16217	0.986	ppbV		98
28) methylene chloride	6.702	49	12343	1.053	ppbV		98
29) 3-chloropropene	6.834	41	16783	0.958	ppbV		94
30) carbon disulfide	7.008	76	28455	0.900	ppbV	#	92
31) Freon 113	7.002	101	20415	1.043	ppbV		98
32) trans-1,2-dichloroethene	7.742	61	15631	0.984	ppbV		99
33) 1,1-dichloroethane	7.967	63	20295	1.016	ppbV		99
34) MTBE	8.033	73	23053	0.959	ppbV		98
35) vinyl acetate	8.150	43	25403	0.934	ppbV		99
36) 2-butanone	8.408	43	26645	0.966	ppbV		98
37) cis-1,2-dichloroethene	8.908	61	15086	1.040	ppbV		97
38) Ethyl Acetate	9.175	61	3848	0.917	ppbV		90
39) chloroform	9.250	83	17985	1.057	ppbV		99
40) Tetrahydrofuran	9.692	42	16250	0.947	ppbV		99
41) 2,2-dichloropropane	9.275	77	11267	0.989	ppbV		95
42) 1,2-dichloroethane	10.075	62	10582	1.066	ppbV		100
44) hexane	9.158	57	18339	0.997	ppbV		74
45) diisopropyl ether	9.158	87	9709	0.984	ppbV		100
46) tert-butyl ethyl ether	9.767	59	31138	0.972	ppbV		98
48) 1,1,1-trichloroethane	10.367	97	14188	0.980	ppbV		95
49) 1,1-dichloropropene	10.727	75	15027	0.987	ppbV		97
50) benzene	10.893	78	36555	1.015	ppbV		99
51) thiophene	11.040	84	23128	0.914	ppbV		98
52) carbon tetrachloride	11.060	117	12247	0.970	ppbV		98
53) cyclohexane	11.207	56	19314	0.993	ppbV		98
54) tert-amyl methyl ether	11.573	73	26229	0.931	ppbV		99
55) dibromomethane	11.800	93	11708	1.001	ppbV		97
56) 1,2-dichloropropane	11.827	63	14650	1.006	ppbV		98
57) bromodichloromethane	12.060	83	16054	0.909	ppbV		99
58) 1,4-dioxane	12.100	88	8350	0.943	ppbV		99
59) trichloroethene	12.107	130	16298	0.997	ppbV		98
60) 2,2,4-trimethylpentane	12.153	57	60115M6	1.005	ppbV		
61) methyl methacrylate	12.347	41	15160	0.932	ppbV		97
62) heptane	12.467	43	27036	0.963	ppbV		98
63) cis-1,3-dichloropropene	13.117	75	16538	0.907	ppbV		95
64) 4-methyl-2-pentanone	13.150	43	30809	0.919	ppbV		98
65) trans-1,3-dichloropropene	13.733	75	12648	0.875	ppbV		97
66) 1,1,2-trichloroethane	13.933	97	14907	0.995	ppbV		95

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638440.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD1.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:58 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	46163	1.000	ppbV	99
70) 2-methylthiophene	14.317	97	37639	0.886	ppbV	100
71) 1,3-dichloropropane	14.275	76	19032	0.974	ppbV	98
72) 2-hexanone	14.525	43	27621	0.851	ppbV	99
73) 3-methylthiophene	14.508	97	37725	0.888	ppbV	100
74) dibromochloromethane	14.692	129	16497	0.833	ppbV	97
75) 1,2-dibromoethane	14.942	107	20820	0.953	ppbV	99
76) butyl acetate	15.175	73	4156	0.813	ppbV	97
77) octane	15.267	85	15968	0.985	ppbV	97
78) tetrachloroethene	15.392	166	18920	1.016	ppbV	97
79) 1,1,1,2-tetrachloroethane	16.008	131	14133	0.931	ppbV	95
80) chlorobenzene	16.025	112	36088	1.005	ppbV	99
81) ethylbenzene	16.358	91	57775	0.974	ppbV	99
82) 2-ethylthiophene	16.400	97	42777	0.891	ppbV	100
83) m+p-xylene	16.525	91	92554	1.984	ppbV	98
84) bromoform	16.592	173	12379	0.745	ppbV	97
85) styrene	16.842	104	35831	0.945	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.933	83	35267	1.022	ppbV	96
87) o-xylene	16.942	91	46986	0.996	ppbV	97
88) 1,2,3-trichloropropane	17.050	75	24270	0.987	ppbV	98
89) nonane	17.133	43	39293	0.919	ppbV	93
91) isopropylbenzene	17.458	105	58196	0.988	ppbV	98
92) bromobenzene	17.533	77	32174	1.009	ppbV	97
93) 2-chlorotoluene	17.867	126	17685	0.938	ppbV	94
94) n-propylbenzene	17.892	120	20354	0.966	ppbV	97
95) 4-chlorotoluene	17.925	126	17033	0.950	ppbV	90
96) 4-ethyl toluene	18.017	105	60803	0.949	ppbV	97
97) 1,3,5-trimethylbenzene	18.083	105	53014	0.984	ppbV	99
98) tert-butylbenzene	18.425	119	57516	0.989	ppbV	96
99) 1,2,4-trimethylbenzene	18.433	105	53434	0.988	ppbV	98
100) decane	18.508	57	47029	0.996	ppbV	92
101) Benzyl Chloride	18.550	91	19983	0.628	ppbV	100
102) 1,3-dichlorobenzene	18.567	146	39242	0.977	ppbV	97
103) 1,4-dichlorobenzene	18.625	146	38947	0.970	ppbV	99
104) sec-butylbenzene	18.658	105	77427	1.001	ppbV	98
105) 1,2,3-trimethylbenzene	18.792	105	49576	1.003	ppbV	99
106) p-isopropyltoluene	18.792	119	69419	0.985	ppbV	96
107) 1,2-dichlorobenzene	18.917	146	37815	0.988	ppbV	99
108) n-butylbenzene	19.150	91	60602	0.962	ppbV	99
109) indan	18.975	117	54112	0.986	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638440.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD1.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:58 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

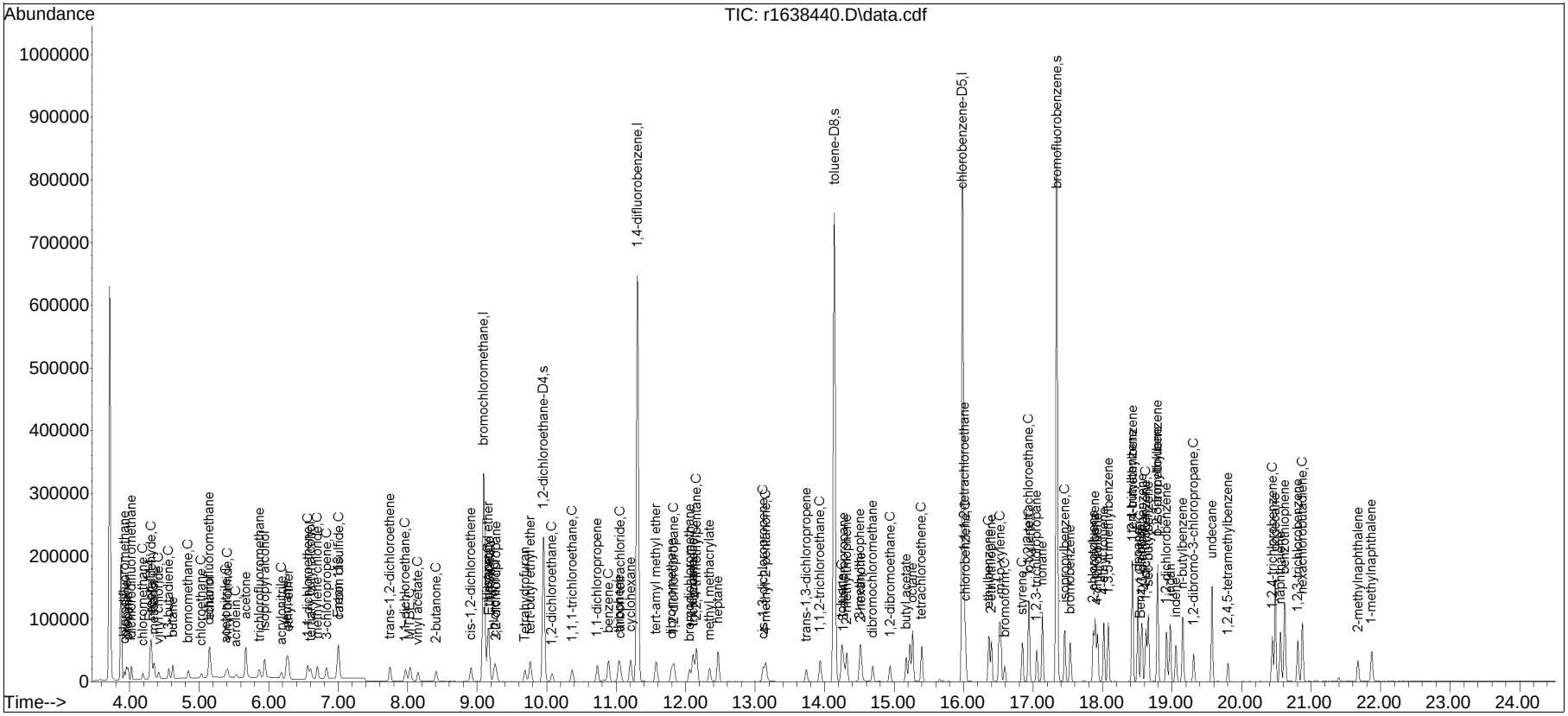
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.050	115	34518	0.943	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.308	75	11208	0.892	ppbV		89
112) undecane	19.575	57	54835	1.141	ppbV		86
113) 1,2,4,5-tetramethylben...	19.800	119	17314	0.949	ppbV		99
114) dodecane	20.483	57	57957	1.067	ppbV		85
115) 1,2,4-trichlorobenzene	20.442	180	24183	0.892	ppbV		99
116) naphthalene	20.558	128	71600	0.914	ppbV		99
117) 1,2,3-trichlorobenzene	20.808	180	22382	0.922	ppbV		96
118) benzothiophene	20.617	134	114186	0.907	ppbV		99
119) hexachlorobutadiene	20.875	225	20057	1.007	ppbV	#	91
120) 2-methylnaphthalene	21.675	142	23616	0.836	ppbV		98
121) 1-methylnaphthalene	21.867	142	35092	0.759	ppbV		97

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638440.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD1.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:52:58 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

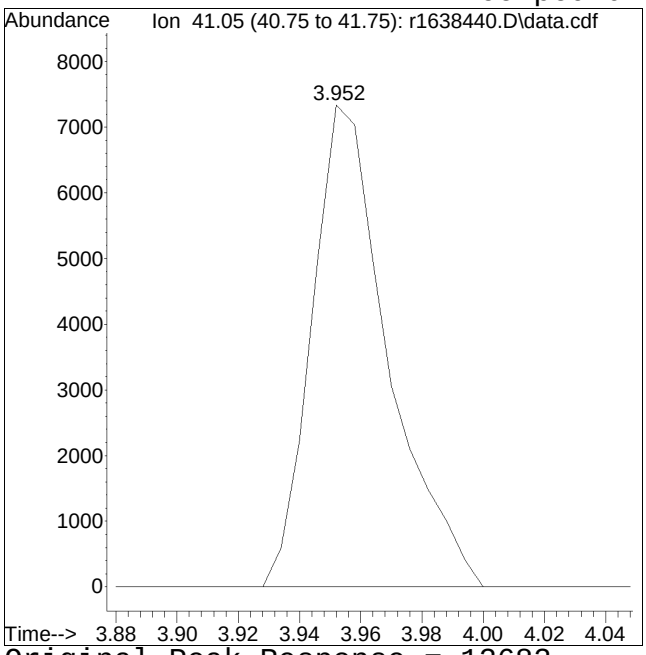


Manual Integration Report

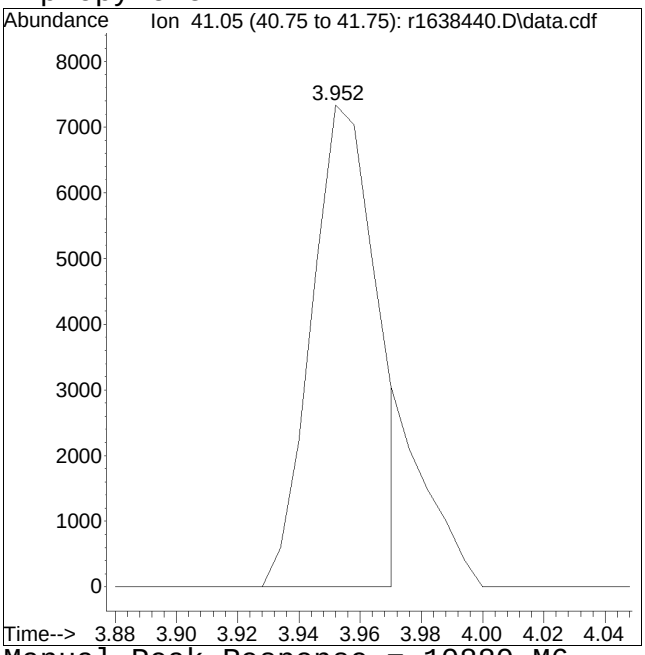
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638440.D
Date Inj'd : 7/25/2020 0:0: 1
Sample : ITO15-LLSTD1.0

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/25/2023 9:52 pm

Compound #3: propylene



Original Peak Response = 12682



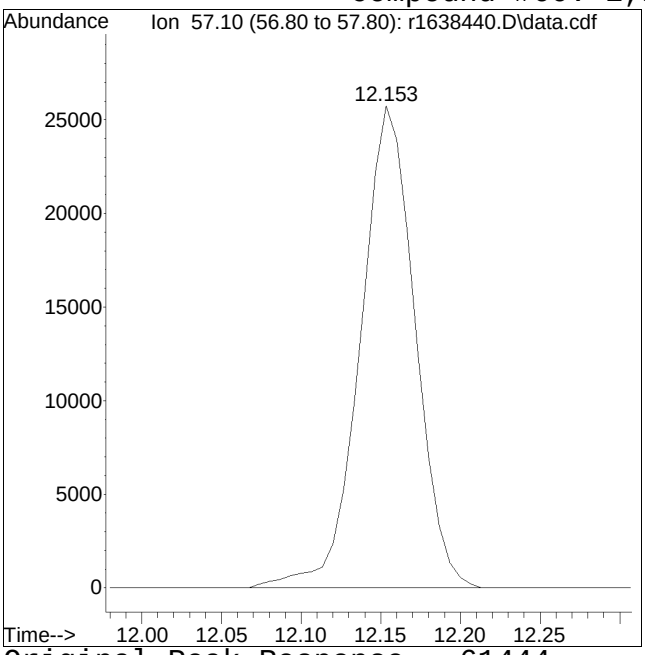
Manual Peak Response = 10880 M6

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

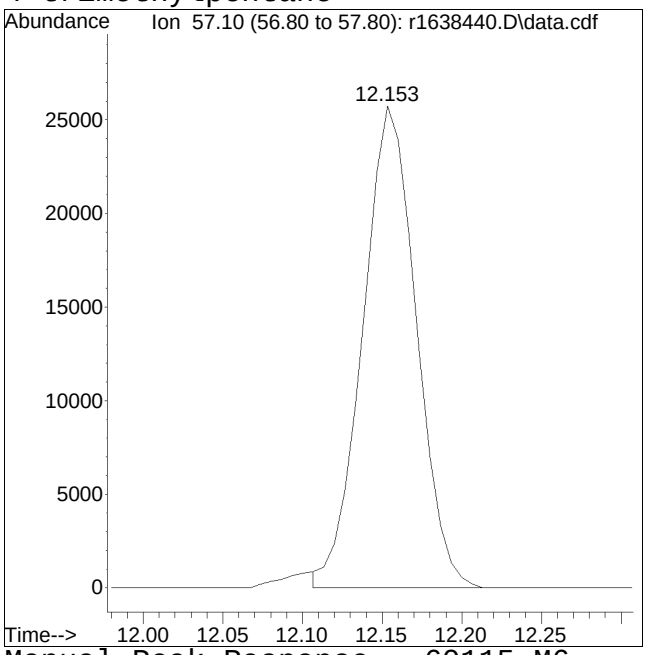
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638440.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:0: 1 Instrument :
Sample : ITO15-LLSTD1.0 Quant Date : 7/25/2023 9:52 pm

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 61444



Manual Peak Response = 60115 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638441.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD5.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	207452	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 98.31%			
43) 1,4-difluorobenzene	11.307	114	672603	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 99.36%			
67) chlorobenzene-D5	15.983	54	81637	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 101.33%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.958	65	167113	10.226	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.26%			
69) toluene-D8	14.142	98	625213	9.801	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.01%			
90) bromofluorobenzene	17.342	95	394023	9.955	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.55%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.922	51	69921	5.293	ppbV	98
3) propylene	3.952	41	55395M6	5.502	ppbV	
4) propane	3.976	29	46806	5.418	ppbV	98
5) dichlorodifluoromethane	4.024	85	86061	5.903	ppbV	100
6) chloromethane	4.192	50	45667	5.478	ppbV	99
7) Freon-114	4.294	85	99025	5.530	ppbV	99
8) methanol	4.348	31	89474	26.555	ppbV	97
9) vinyl chloride	4.420	62	46541	5.510	ppbV	99
10) 1,3-butadiene	4.564	54	35917	5.333	ppbV	97
11) butane	4.618	43	85945	5.443	ppbV	100
12) acetaldehyde	4.312	29	117352	27.099	ppbV	96
13) bromomethane	4.846	94	40830	5.413	ppbV	97
14) chloroethane	5.032	64	22315	5.355	ppbV	99
15) ethanol	5.152	31	149293	25.662	ppbV	100
16) dichlorofluoromethane	5.140	67	83858	5.350	ppbV	100
17) vinyl bromide	5.410	106	42224	5.289	ppbV	97
18) acrolein	5.530	56	18685	5.218	ppbV	97
19) acetone	5.667	43	294006	26.590	ppbV	99
20) acetonitrile	5.383	41	46108	5.287	ppbV	99
21) trichlorofluoromethane	5.863	101	57700	5.281	ppbV	98
22) isopropyl alcohol	5.940	45	208211	13.018	ppbV	100
23) acrylonitrile	6.180	53	40790	5.106	ppbV	99
24) pentane	6.260	43	126231	5.219	ppbV	99

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638441.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD5.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.280	31	74281	5.185	ppbV	99
26) 1,1-dichloroethene	6.564	61	75244	5.200	ppbV	100
27) tertiary butyl alcohol	6.600	59	85208	5.213	ppbV	97
28) methylene chloride	6.702	49	60199	5.168	ppbV	100
29) 3-chloropropene	6.834	41	89680	5.153	ppbV	99
30) carbon disulfide	7.008	76	156915	4.997	ppbV	99
31) Freon 113	6.996	101	101737	5.232	ppbV	99
32) trans-1,2-dichloroethene	7.750	61	82296	5.213	ppbV	97
33) 1,1-dichloroethane	7.967	63	103061	5.195	ppbV	99
34) MTBE	8.033	73	122054	5.109	ppbV	100
35) vinyl acetate	8.150	43	137231	5.079	ppbV	100
36) 2-butanone	8.400	43	139734	5.100	ppbV	100
37) cis-1,2-dichloroethene	8.908	61	74729	5.186	ppbV	98
38) Ethyl Acetate	9.167	61	21403	5.135	ppbV	78
39) chloroform	9.250	83	89035	5.266	ppbV	99
40) Tetrahydrofuran	9.683	42	86408	5.069	ppbV	99
41) 2,2-dichloropropane	9.275	77	57670	5.099	ppbV	95
42) 1,2-dichloroethane	10.075	62	51745	5.246	ppbV	98
44) hexane	9.158	57	94690	5.183	ppbV	88
45) diisopropyl ether	9.150	87	50536	5.156	ppbV	94
46) tert-butyl ethyl ether	9.758	59	163255	5.132	ppbV	99
48) 1,1,1-trichloroethane	10.367	97	73074	5.083	ppbV	98
49) 1,1-dichloropropene	10.727	75	76689	5.073	ppbV	99
50) benzene	10.893	78	182900	5.115	ppbV	100
51) thiophene	11.040	84	127854	5.088	ppbV	100
52) carbon tetrachloride	11.060	117	63268	5.047	ppbV	98
53) cyclohexane	11.207	56	100240	5.191	ppbV	98
54) tert-amyl methyl ether	11.573	73	139793	4.998	ppbV	99
55) dibromomethane	11.800	93	59675	5.137	ppbV	96
56) 1,2-dichloropropane	11.833	63	74258	5.133	ppbV	99
57) bromodichloromethane	12.060	83	88226	5.032	ppbV	99
58) 1,4-dioxane	12.087	88	44904	5.108	ppbV	99
59) trichloroethene	12.107	130	82499	5.084	ppbV	98
60) 2,2,4-trimethylpentane	12.153	57	307947	5.182	ppbV	99
61) methyl methacrylate	12.340	41	81341	5.035	ppbV	99
62) heptane	12.467	43	141161	5.063	ppbV	98
63) cis-1,3-dichloropropene	13.117	75	89838	4.961	ppbV	97
64) 4-methyl-2-pentanone	13.150	43	168037	5.049	ppbV	100
65) trans-1,3-dichloropropene	13.733	75	69516	4.844	ppbV	98
66) 1,1,2-trichloroethane	13.933	97	75520	5.075	ppbV	100

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638441.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD5.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	230383	5.029	ppbV	98
70) 2-methylthiophene	14.317	97	209895	4.979	ppbV	100
71) 1,3-dichloropropane	14.275	76	97260	5.016	ppbV	98
72) 2-hexanone	14.525	43	158462	4.921	ppbV	100
73) 3-methylthiophene	14.508	97	210755	5.002	ppbV	100
74) dibromochloromethane	14.692	129	94375	4.802	ppbV	98
75) 1,2-dibromoethane	14.942	107	107166	4.947	ppbV	99
76) butyl acetate	15.167	73	23730	4.679	ppbV	93
77) octane	15.267	85	81256	5.051	ppbV	98
78) tetrachloroethene	15.400	166	95521	5.170	ppbV	100
79) 1,1,1,2-tetrachloroethane	16.008	131	74671	4.956	ppbV	97
80) chlorobenzene	16.025	112	179225	5.033	ppbV	100
81) ethylbenzene	16.358	91	293930	4.996	ppbV	100
82) 2-ethylthiophene	16.400	97	238383	5.008	ppbV	99
83) m+p-xylene	16.517	91	468750	10.127	ppbV	99
84) bromoform	16.592	173	77381	4.697	ppbV	98
85) styrene	16.842	104	186048	4.947	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.933	83	174894	5.107	ppbV	99
87) o-xylene	16.942	91	238303	5.094	ppbV	98
88) 1,2,3-trichloropropane	17.050	75	121490	4.981	ppbV	99
89) nonane	17.133	43	207374	4.888	ppbV	97
91) isopropylbenzene	17.450	105	295759	5.061	ppbV	99
92) bromobenzene	17.533	77	160719	5.079	ppbV	97
93) 2-chlorotoluene	17.867	126	90096	4.817	ppbV	94
94) n-propylbenzene	17.892	120	103797	4.966	ppbV	99
95) 4-chlorotoluene	17.925	126	89864	5.054	ppbV	97
96) 4-ethyl toluene	18.017	105	316901	4.986	ppbV	99
97) 1,3,5-trimethylbenzene	18.083	105	267474	5.006	ppbV	100
98) tert-butylbenzene	18.425	119	294688	5.107	ppbV	96
99) 1,2,4-trimethylbenzene	18.425	105	270761	5.044	ppbV	94
100) decane	18.508	57	237130	5.061	ppbV	95
101) Benzyl Chloride	18.550	91	134766	4.267	ppbV	98
102) 1,3-dichlorobenzene	18.567	146	198778	4.989	ppbV	98
103) 1,4-dichlorobenzene	18.625	146	198550	4.983	ppbV	99
104) sec-butylbenzene	18.658	105	381756	4.974	ppbV	98
105) 1,2,3-trimethylbenzene	18.792	105	246879	5.034	ppbV	99
106) p-isopropyltoluene	18.783	119	354819	5.075	ppbV	99
107) 1,2-dichlorobenzene	18.917	146	188620	4.967	ppbV	99
108) n-butylbenzene	19.150	91	311298	4.983	ppbV	98
109) indan	18.967	117	275837	5.065	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638441.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD5.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

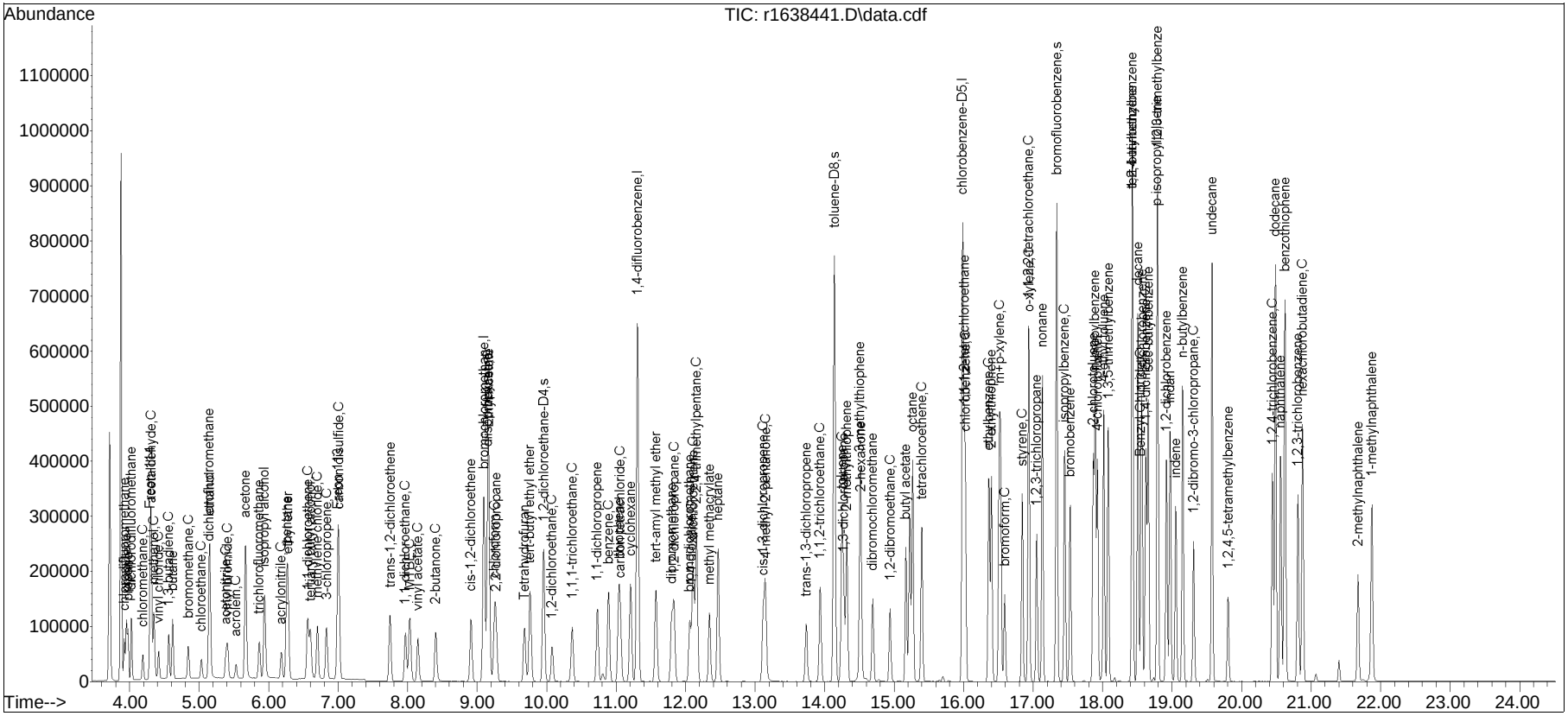
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.050	115	179735	4.950	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.308	75	61183	4.906	ppbV	97
112) undecane	19.575	57	266684	5.595	ppbV	88
113) 1,2,4,5-tetramethylben...	19.808	119	91105	5.034	ppbV	97
114) dodecane	20.483	57	284954	5.291	ppbV	92
115) 1,2,4-trichlorobenzene	20.442	180	127911	4.755	ppbV	98
116) naphthalene	20.558	128	379226	4.877	ppbV	100
117) 1,2,3-trichlorobenzene	20.808	180	117983	4.898	ppbV	100
118) benzothiophene	20.625	134	609286	4.876	ppbV	100
119) hexachlorobutadiene	20.875	225	101758	5.148	ppbV	98
120) 2-methylnaphthalene	21.675	142	127757	4.558	ppbV	99
121) 1-methylnaphthalene	21.875	142	215972	4.708	ppbV	97

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638441.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD5.0
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:05 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

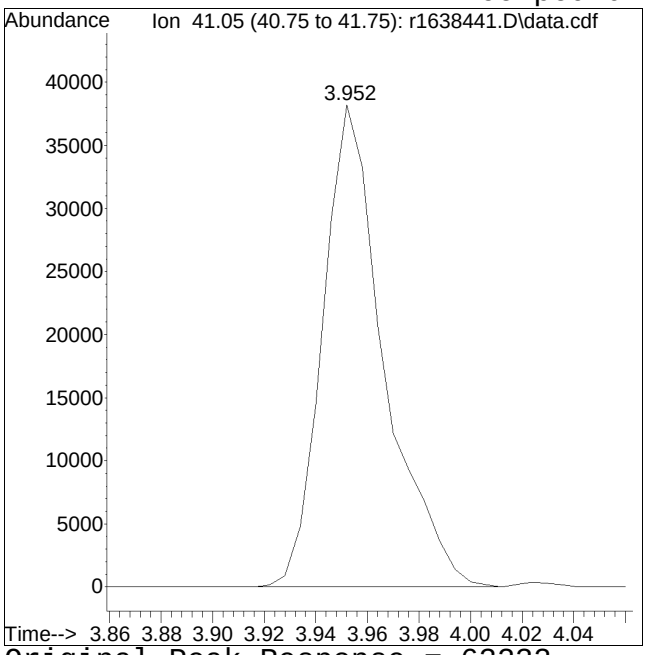


Manual Integration Report

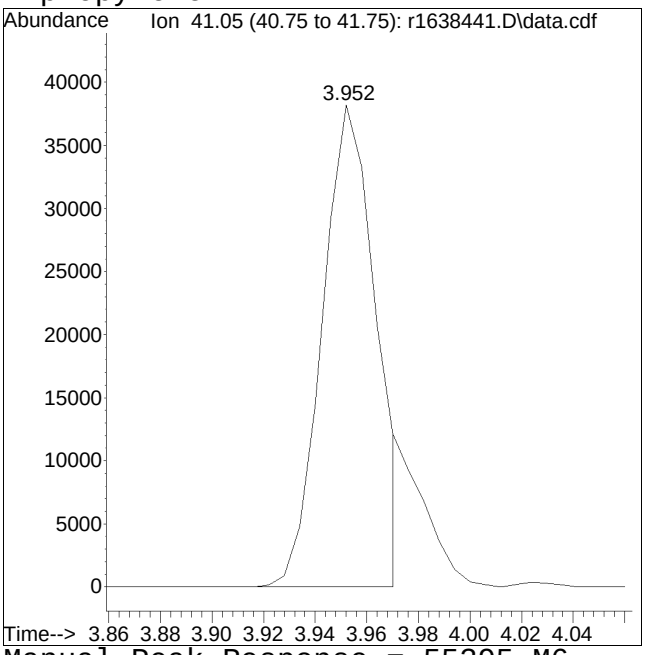
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638441.D
Date Inj'd : 7/25/2020 0:1: 0
Sample : ITO15-LLSTD5.0

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/25/2023 9:53 pm

Compound #3: propylene



Original Peak Response = 63232



Manual Peak Response = 55395 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638442.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:48:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 14:49:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	211013	10.000	ppbV	#-0.06
Standard Area = 211013			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.313	114	676902	10.000	ppbV	#-0.05
Standard Area = 676902			Recovery = 100.00%			
67) chlorobenzene-D5	15.992	54	80563	10.000	ppbV	-0.03
Standard Area = 80563			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.958	65	164468	8.846	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 88.46%			
69) toluene-D8	14.142	98	629546	11.572	ppbV	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.72%			
90) bromofluorobenzene	17.342	95	390605	11.511	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.11%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.928	51	134376	8.659	ppbV	96
3) propylene	3.958	41	102412M6	12.849	ppbV	
4) propane	3.982	29	87871	8.199	ppbV #	62
5) dichlorodifluoromethane	4.030	85	148287	8.033	ppbV	99
6) chloromethane	4.198	50	84797	8.309	ppbV	94
7) Freon-114	4.300	85	182144	7.510	ppbV	92
8) methanol	4.354	31	171360	40.529	ppbV	99
9) vinyl chloride	4.426	62	85924	9.406	ppbV	95
10) 1,3-butadiene	4.570	54	68510	7.866	ppbV #	72
11) butane	4.624	43	160617	10.442	ppbV #	93
12) acetaldehyde	4.318	29	220241	503.124	ppbV #	46
13) bromomethane	4.852	94	76726	9.054	ppbV	97
14) chloroethane	5.038	64	42390	9.756	ppbV	94
15) ethanol	5.158	31	295879	44.991	ppbV #	49
16) dichlorofluoromethane	5.146	67	159430	9.584	ppbV	97
17) vinyl bromide	5.417	106	81211	9.447	ppbV	97
18) acrolein	5.537	56	36423	8.442	ppbV #	92
19) acetone	5.673	43	562335	39.221	ppbV #	90
20) acetonitrile	5.393	41	88706	10.253	ppbV	99
21) trichlorofluoromethane	5.873	101	111141	6.753	ppbV	98
22) isopropyl alcohol	5.947	45	406703	24.411	ppbV	98
23) acrylonitrile	6.187	53	81252	10.069	ppbV	97
24) pentane	6.267	43	246038	11.286	ppbV #	91

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638442.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:48:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 14:49:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.283	31	145723	8.800	ppbV	#	74
26) 1,1-dichloroethene	6.570	61	147196	11.065	ppbV		96
27) tertiary butyl alcohol	6.606	59	166250M6	12.304	ppbV		
28) methylene chloride	6.708	49	118487	9.569	ppbV		93
29) 3-chloropropene	6.840	41	177005	12.083	ppbV	#	87
30) carbon disulfide	7.014	76	319415	10.534	ppbV		96
31) Freon 113	7.008	101	197805	10.457	ppbV		94
32) trans-1,2-dichloroethene	7.750	61	160566	11.485	ppbV		96
33) 1,1-dichloroethane	7.975	63	201780	11.737	ppbV		99
34) MTBE	8.033	73	243004	10.118	ppbV		96
35) vinyl acetate	8.150	43	274811	12.137	ppbV		95
36) 2-butanone	8.408	43	278681	11.443	ppbV		92
37) cis-1,2-dichloroethene	8.917	61	146581	11.820	ppbV		98
38) Ethyl Acetate	9.175	61	42400	13.114	ppbV		83
39) chloroform	9.250	83	171970	10.000	ppbV		99
40) Tetrahydrofuran	9.683	42	173395	11.742	ppbV	#	87
41) 2,2-dichloropropane	9.275	77	115053	9.463	ppbV	#	68
42) 1,2-dichloroethane	10.083	62	100338	9.586	ppbV		92
44) hexane	9.167	57	183856	10.169	ppbV	#	70
45) diisopropyl ether	9.158	87	98643	10.122	ppbV		80
46) tert-butyl ethyl ether	9.767	59	320175	10.597	ppbV		95
48) 1,1,1-trichloroethane	10.367	97	144684	8.992	ppbV		98
49) 1,1-dichloropropene	10.733	75	152134	8.801	ppbV	#	87
50) benzene	10.893	78	359892	9.698	ppbV		97
51) thiophene	11.040	84	252881	10.150	ppbV		93
52) carbon tetrachloride	11.067	117	126160	8.759	ppbV		98
53) cyclohexane	11.213	56	194354	10.231	ppbV	#	90
54) tert-amyl methyl ether	11.573	73	281510	9.547	ppbV	#	92
55) dibromomethane	11.800	93	116901	9.822	ppbV		92
56) 1,2-dichloropropane	11.833	63	145581	11.144	ppbV		99
57) bromodichloromethane	12.060	83	176451	8.934	ppbV		95
58) 1,4-dioxane	12.087	88	88478	10.298	ppbV		99
59) trichloroethene	12.113	130	163301	10.147	ppbV		97
60) 2,2,4-trimethylpentane	12.160	57	598051	10.215	ppbV	#	89
61) methyl methacrylate	12.347	41	162568	10.603	ppbV		87
62) heptane	12.473	43	280579	9.906	ppbV		89
63) cis-1,3-dichloropropene	13.117	75	182234	10.302	ppbV	#	90
64) 4-methyl-2-pentanone	13.150	43	334933	10.314	ppbV		92
65) trans-1,3-dichloropropene	13.733	75	144439	9.046	ppbV	#	88
66) 1,1,2-trichloroethane	13.942	97	149772	10.427	ppbV		87

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638442.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:48:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 14:49:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.250	91	452054	11.948	ppbV		100
70)	2-methylthiophene	14.317	97	416009	11.825	ppbV		99
71)	1,3-dichloropropane	14.275	76	191330	10.184	ppbV	#	76
72)	2-hexanone	14.525	43	317803	11.706	ppbV		90
73)	3-methylthiophene	14.508	97	415819	11.848	ppbV		98
74)	dibromochloromethane	14.692	129	193953	10.844	ppbV		99
75)	1,2-dibromoethane	14.942	107	213777	11.388	ppbV		97
76)	butyl acetate	15.167	73	50053	11.189	ppbV	#	63
77)	octane	15.267	85	158740	11.452	ppbV	#	76
78)	tetrachloroethene	15.400	166	182315	11.216	ppbV		97
79)	1,1,1,2-tetrachloroethane	16.008	131	148681	10.796	ppbV		99
80)	chlorobenzene	16.025	112	351448	11.435	ppbV		98
81)	ethylbenzene	16.367	91	580534	12.153	ppbV		91
82)	2-ethylthiophene	16.400	97	469759	11.384	ppbV		91
83)	m+p-xylene	16.525	91	913535	23.479	ppbV		91
84)	bromoform	16.592	173	162569	11.144	ppbV		97
85)	styrene	16.842	104	371111	11.538	ppbV		97
86)	1,1,2,2-tetrachloroethane	16.933	83	337981	11.733	ppbV		97
87)	o-xylene	16.942	91	461657	11.749	ppbV		91
88)	1,2,3-trichloropropane	17.050	75	240689	10.431	ppbV	#	94
89)	nonane	17.133	43	418709	10.878	ppbV		97
91)	isopropylbenzene	17.458	105	576692	10.652	ppbV		97
92)	bromobenzene	17.533	77	312299	10.687	ppbV		90
93)	2-chlorotoluene	17.867	126	184581	11.279	ppbV		97
94)	n-propylbenzene	17.892	120	206272	11.638	ppbV		84
95)	4-chlorotoluene	17.925	126	175453	10.952	ppbV		91
96)	4-ethyl toluene	18.017	105	627242	10.788	ppbV		95
97)	1,3,5-trimethylbenzene	18.083	105	527265	10.966	ppbV		98
98)	tert-butylbenzene	18.425	119	569484	11.564	ppbV		96
99)	1,2,4-trimethylbenzene	18.433	105	529696	11.376	ppbV		100
100)	decane	18.508	57	462359	12.215	ppbV		100
101)	Benzyl Chloride	18.550	91	311712	12.241	ppbV		97
102)	1,3-dichlorobenzene	18.567	146	393203	11.504	ppbV		96
103)	1,4-dichlorobenzene	18.625	146	393242	11.567	ppbV		99
104)	sec-butylbenzene	18.658	105	757418	10.781	ppbV		98
105)	1,2,3-trimethylbenzene	18.792	105	483942	10.816	ppbV		96
106)	p-isopropyltoluene	18.792	119	690020	11.470	ppbV		99
107)	1,2-dichlorobenzene	18.917	146	374761	11.590	ppbV		97
108)	n-butylbenzene	19.150	91	616563	11.257	ppbV		96
109)	indan	18.975	117	537425	10.977	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638442.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:48:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 14:49:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

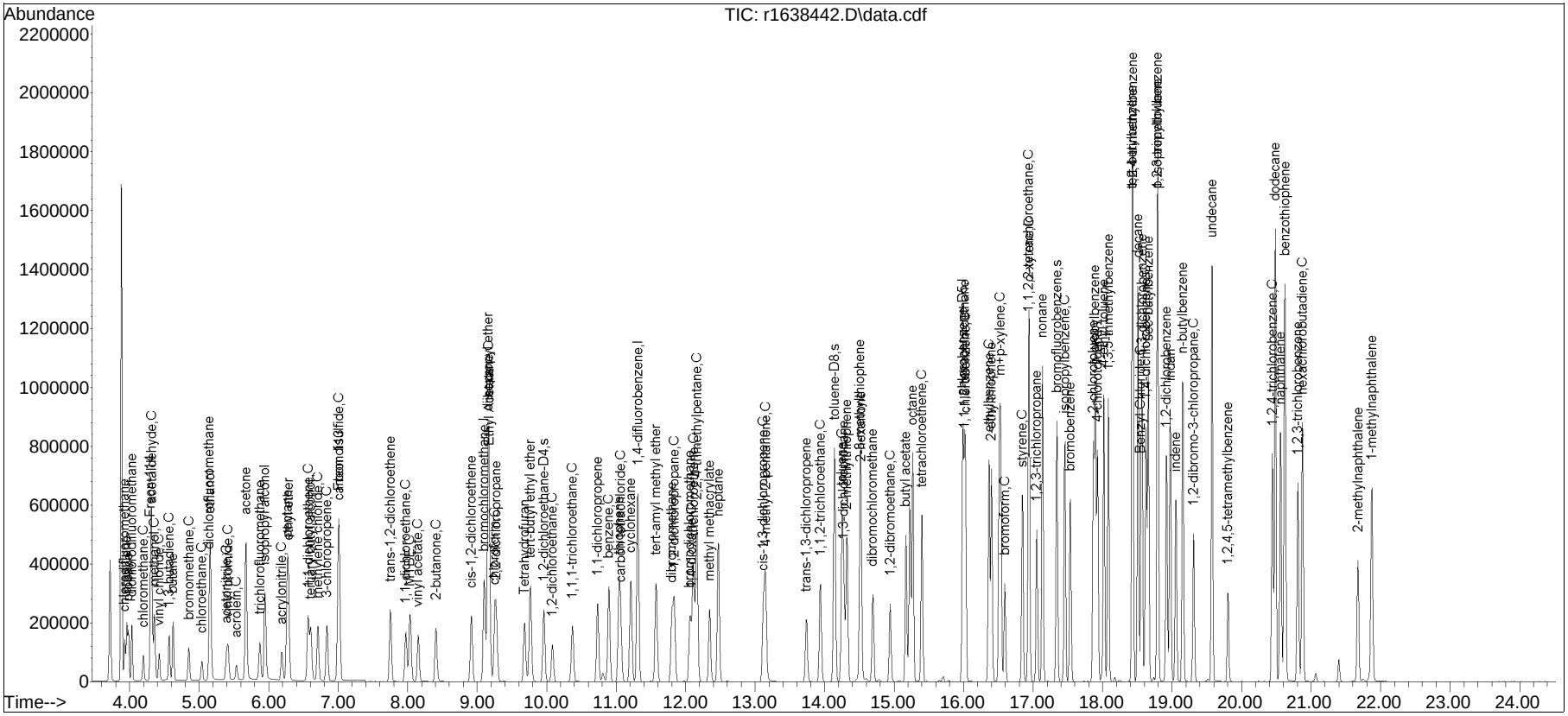
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.050	115	358333	8.926	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.308	75	123067	10.646	ppbV	#	79
112) undecane	19.575	57	470416	11.351	ppbV	#	78
113) 1,2,4,5-tetramethylben...	19.800	119	178582	7.438	ppbV		99
114) dodecane	20.483	57	531522	12.466	ppbV		87
115) 1,2,4-trichlorobenzene	20.442	180	265481	12.576	ppbV		98
116) naphthalene	20.558	128	767296	11.721	ppbV		99
117) 1,2,3-trichlorobenzene	20.808	180	237707	11.128	ppbV		97
118) benzothiophene	20.625	134	1233070	10.020	ppbV		98
119) hexachlorobutadiene	20.875	225	195079	10.932	ppbV		96
120) 2-methylnaphthalene	21.675	142	276575	11.018	ppbV		97
121) 1-methylnaphthalene	21.875	142	452654	44.677	ppbV		98

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638442.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

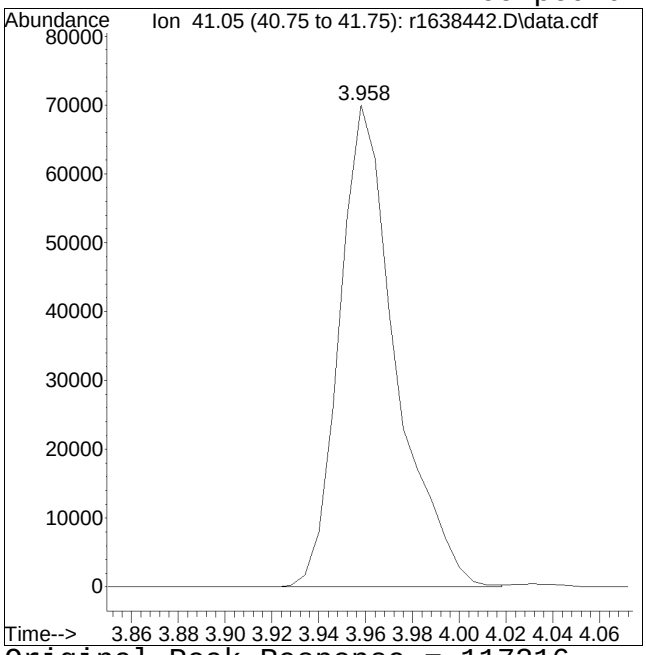
Quant Time: Jul 25 21:48:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 14:49:07 2023
Response via : Initial Calibration



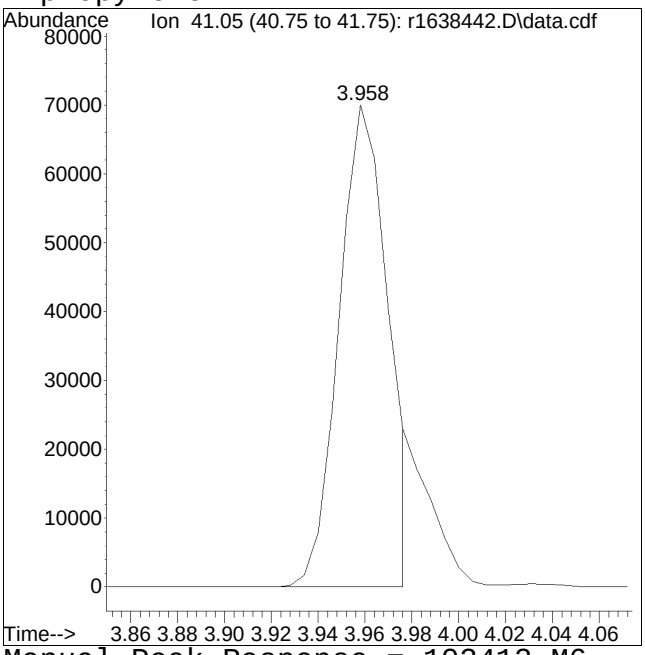
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16\Method : TFS16_230725.M
Data File : r1638442.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 2 Instrument :
Sample : ITO15-LLSTD010 Quant Date : 7/25/2023 9:48 pm

Compound #3: propylene



Original Peak Response = 117216



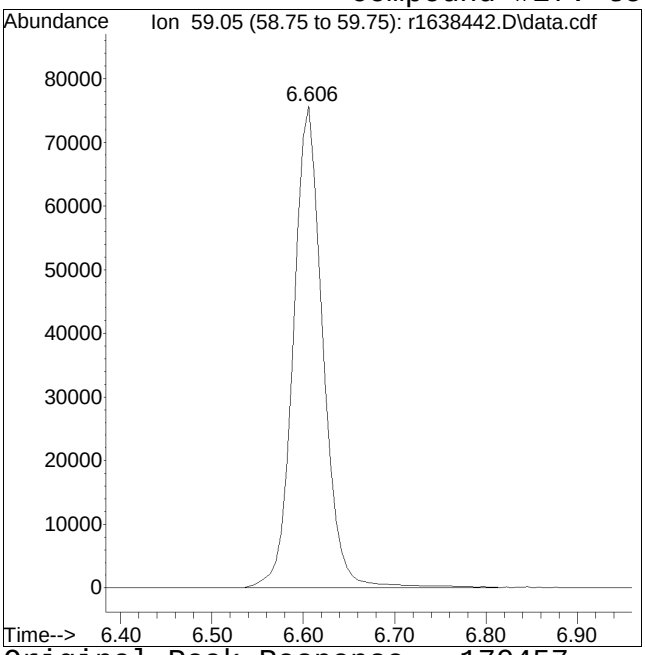
Manual Peak Response = 102412 M6

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

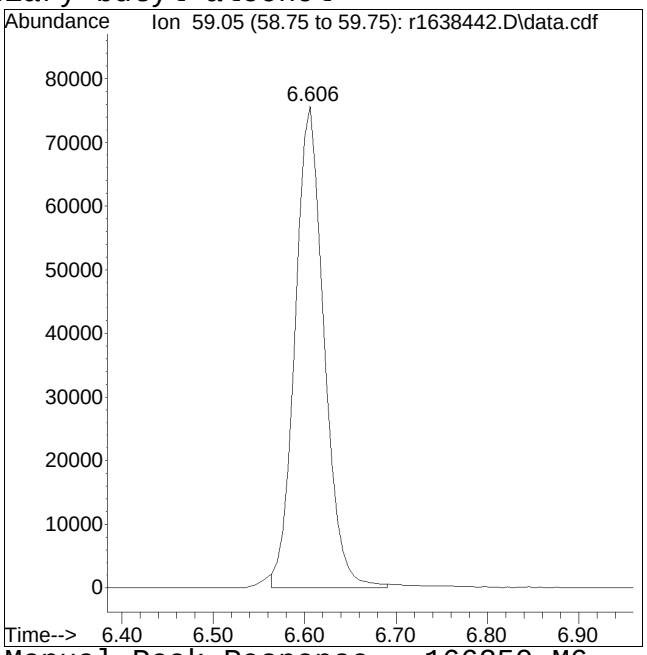
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638442.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 2 Instrument :
Sample : ITO15-LLSTD010 Quant Date : 7/25/2023 9:48 pm

Compound #27: tertiary butyl alcohol



Original Peak Response = 170457



Manual Peak Response = 166250 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638443.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD020
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	213833	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 101.34%			
43) 1,4-difluorobenzene	11.313	114	677998	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 100.16%			
67) chlorobenzene-D5	15.992	54	76869	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 95.41%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.958	65	156244	9.485	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.85%			
69) toluene-D8	14.142	98	625238	10.409	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.09%			
90) bromofluorobenzene	17.342	95	388235	10.417	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.17%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.928	51	263566	19.355	ppbV	98
3) propylene	3.958	41	193746M6	18.669	ppbV	
4) propane	3.982	29	173636	19.500	ppbV	97
5) dichlorodifluoromethane	4.030	85	276530	18.402	ppbV	99
6) chloromethane	4.198	50	165376	19.245	ppbV	100
7) Freon-114	4.300	85	345722	18.730	ppbV	97
8) methanol	4.354	31	333675	96.077	ppbV	98
9) vinyl chloride	4.426	62	162778	18.695	ppbV	98
10) 1,3-butadiene	4.570	54	131453	18.934	ppbV	96
11) butane	4.624	43	298593	18.345	ppbV	99
12) acetaldehyde	4.318	29	428101	95.907	ppbV	94
13) bromomethane	4.852	94	146488	18.841	ppbV	100
14) chloroethane	5.038	64	81812	19.045	ppbV	99
15) ethanol	5.164	31	587954	98.047	ppbV	98
16) dichlorofluoromethane	5.146	67	302319	18.712	ppbV	99
17) vinyl bromide	5.417	106	157270	19.110	ppbV	97
18) acrolein	5.537	56	73692	19.965	ppbV	99
19) acetone	5.670	43	1084074	95.119	ppbV	98
20) acetonitrile	5.393	41	173623	19.315	ppbV	98
21) trichlorofluoromethane	5.870	101	219730	19.510	ppbV	99
22) isopropyl alcohol	5.950	45	804010	48.771	ppbV	100
23) acrylonitrile	6.190	53	168254	20.435	ppbV	97
24) pentane	6.267	43	503955	20.213	ppbV	99

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638443.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD020
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.283	31	296357	20.069	ppbV	98
26) 1,1-dichloroethene	6.570	61	294409	19.737	ppbV	98
27) tertiary butyl alcohol	6.606	59	346498	20.567	ppbV	100
28) methylene chloride	6.708	49	247013	20.572	ppbV	98
29) 3-chloropropene	6.840	41	358966	20.013	ppbV	98
30) carbon disulfide	7.014	76	654107	20.208	ppbV	99
31) Freon 113	7.002	101	407889	20.349	ppbV	99
32) trans-1,2-dichloroethene	7.750	61	315660	19.400	ppbV	97
33) 1,1-dichloroethane	7.975	63	409260	20.015	ppbV	99
34) MTBE	8.033	73	494687	20.089	ppbV	98
35) vinyl acetate	8.150	43	541488	19.444	ppbV	99
36) 2-butanone	8.408	43	565438	20.022	ppbV	99
37) cis-1,2-dichloroethene	8.917	61	297386	20.021	ppbV	98
38) Ethyl Acetate	9.175	61	83157	19.354	ppbV	98
39) chloroform	9.258	83	345215	19.809	ppbV	98
40) Tetrahydrofuran	9.675	42	352232	20.046	ppbV	98
41) 2,2-dichloropropane	9.275	77	236883	20.318	ppbV	96
42) 1,2-dichloroethane	10.083	62	194933	19.171	ppbV	98
44) hexane	9.167	57	359390	19.516	ppbV	97
45) diisopropyl ether	9.158	87	199937	20.236	ppbV	99
46) tert-butyl ethyl ether	9.767	59	640413	19.970	ppbV	99
48) 1,1,1-trichloroethane	10.375	97	290908	20.074	ppbV	100
49) 1,1-dichloropropene	10.733	75	312963	20.538	ppbV	98
50) benzene	10.893	78	744784	20.661	ppbV	100
51) thiophene	11.040	84	474986	18.753	ppbV	99
52) carbon tetrachloride	11.067	117	255814	20.244	ppbV	100
53) cyclohexane	11.213	56	382933	19.671	ppbV	99
54) tert-amyl methyl ether	11.573	73	595522	21.120	ppbV	99
55) dibromomethane	11.800	93	238684	20.385	ppbV	99
56) 1,2-dichloropropane	11.833	63	299092	20.512	ppbV	99
57) bromodichloromethane	12.060	83	348530	19.720	ppbV	99
58) 1,4-dioxane	12.087	88	177111	19.985	ppbV	97
59) trichloroethene	12.113	130	336964	20.601	ppbV	98
60) 2,2,4-trimethylpentane	12.160	57	1162100	19.400	ppbV	99
61) methyl methacrylate	12.340	41	332296	20.407	ppbV	98
62) heptane	12.473	43	571526	20.337	ppbV	99
63) cis-1,3-dichloropropene	13.117	75	386660	21.183	ppbV	98
64) 4-methyl-2-pentanone	13.150	43	687294	20.487	ppbV	98
65) trans-1,3-dichloropropene	13.733	75	305175	21.094	ppbV	98
66) 1,1,2-trichloroethane	13.942	97	311869	20.789	ppbV	98

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638443.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD020
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.250	91	917524	21.272	ppbV	100
70) 2-methylthiophene	14.317	97	781153	19.680	ppbV	100
71) 1,3-dichloropropane	14.275	76	394581	21.614	ppbV	99
72) 2-hexanone	14.517	43	647940	21.368	ppbV	99
73) 3-methylthiophene	14.508	97	781058	19.686	ppbV	100
74) dibromochloromethane	14.692	129	392655	21.218	ppbV	100
75) 1,2-dibromoethane	14.942	107	438824	21.514	ppbV	99
76) butyl acetate	15.167	73	103270	21.624	ppbV	93
77) octane	15.267	85	315762	20.848	ppbV	97
78) tetrachloroethene	15.400	166	372150	21.393	ppbV	99
79) 1,1,1,2-tetrachloroethane	16.008	131	302479	21.322	ppbV	98
80) chlorobenzene	16.025	112	711181	21.208	ppbV	99
81) ethylbenzene	16.367	91	1170679	21.135	ppbV	98
82) 2-ethylthiophene	16.400	97	886870	19.787	ppbV	99
83) m+p-xylene	16.525	91	1817111	41.694	ppbV	97
84) bromoform	16.592	173	341172	21.995	ppbV	98
85) styrene	16.842	104	776650	21.933	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.933	83	661844	20.523	ppbV	98
87) o-xylene	16.942	91	912740	20.721	ppbV	97
88) 1,2,3-trichloropropane	17.050	75	489826	21.329	ppbV	99
89) nonane	17.133	43	877770	21.971	ppbV	94
91) isopropylbenzene	17.458	105	1174232	21.340	ppbV	100
92) bromobenzene	17.533	77	633052	21.245	ppbV	99
93) 2-chlorotoluene	17.867	126	381370	21.654	ppbV	97
94) n-propylbenzene	17.892	120	423764	21.531	ppbV	94
95) 4-chlorotoluene	17.925	126	368759	22.028	ppbV	94
96) 4-ethyl toluene	18.017	105	1250615	20.896	ppbV	99
97) 1,3,5-trimethylbenzene	18.083	105	1071311	21.295	ppbV	99
98) tert-butylbenzene	18.425	119	1099264	20.230	ppbV	98
99) 1,2,4-trimethylbenzene	18.433	105	1059446	20.962	ppbV	97
100) decane	18.508	57	895131	20.290	ppbV	91
101) Benzyl Chloride	18.550	91	658777	22.150	ppbV	96
102) 1,3-dichlorobenzene	18.567	146	805822	21.479	ppbV	100
103) 1,4-dichlorobenzene	18.625	146	811949	21.640	ppbV	97
104) sec-butylbenzene	18.658	105	1523017	21.074	ppbV	98
105) 1,2,3-trimethylbenzene	18.792	105	971175	21.032	ppbV	98
106) p-isopropyltoluene	18.792	119	1324040	20.111	ppbV	96
107) 1,2-dichlorobenzene	18.917	146	769865	21.530	ppbV	98
108) n-butylbenzene	19.158	91	1232826	20.956	ppbV	100
109) indan	18.975	117	1089804	21.253	ppbV	100

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638443.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD020
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

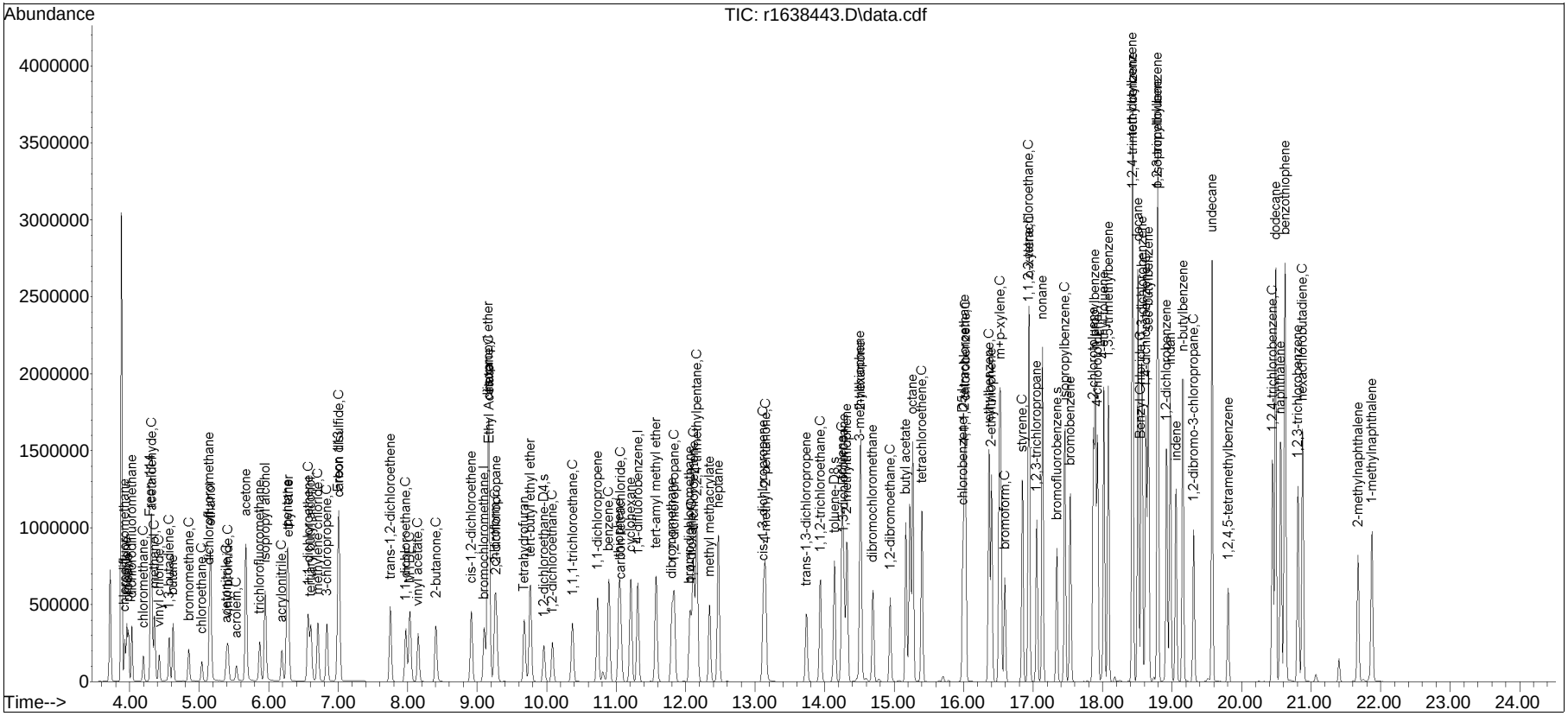
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.058	115	726100	21.237	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.308	75	246865	21.023	ppbV	95
112) undecane	19.575	57	897969	20.006	ppbV	99
113) 1,2,4,5-tetramethylben...	19.808	119	353035	20.719	ppbV	96
114) dodecane	20.492	57	958178	18.893	ppbV	93
115) 1,2,4-trichlorobenzene	20.442	180	532999	21.042	ppbV	99
116) naphthalene	20.558	128	1486852	20.309	ppbV	100
117) 1,2,3-trichlorobenzene	20.808	180	471815	20.802	ppbV	98
118) benzothiophene	20.625	134	2428536	20.641	ppbV	99
119) hexachlorobutadiene	20.875	225	371941	19.982	ppbV	98
120) 2-methylnaphthalene	21.675	142	546589	20.712	ppbV	99
121) 1-methylnaphthalene	21.875	142	664740	15.391	ppbV	100

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638443.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD020
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

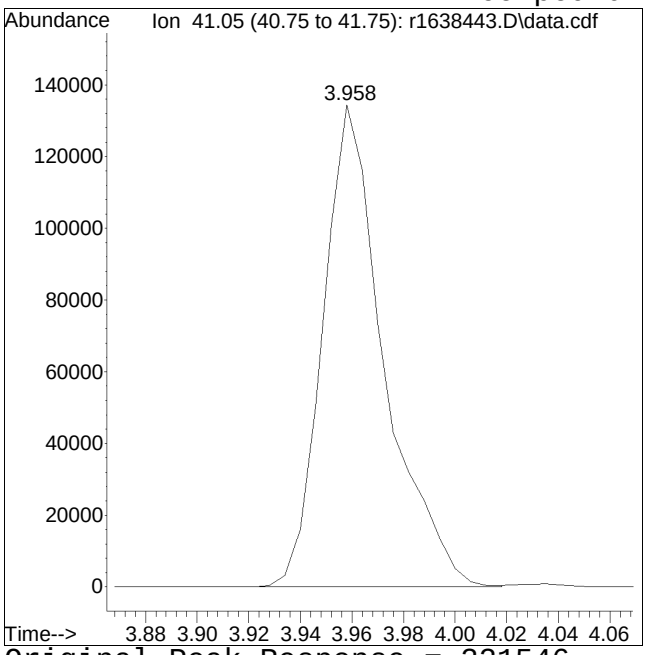
Quant Time: Jul 25 21:53:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration



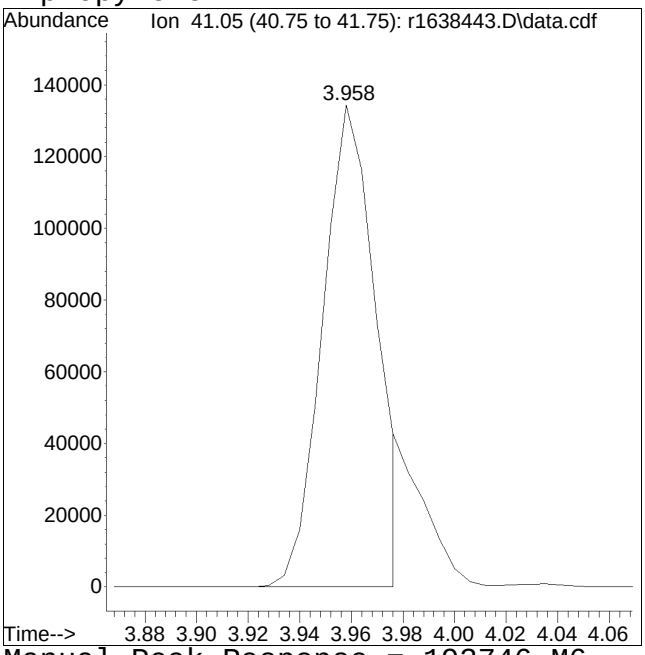
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638443.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:2: 0 Instrument :
Sample : ITO15-LLSTD020 Quant Date : 7/25/2023 9:53 pm

Compound #3: propylene



Original Peak Response = 221546



Manual Peak Response = 193746 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638444.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD050
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.108	49	201292	10.000	ppbV		0.00
Standard Area = 211013			Recovery = 95.39%				
43) 1,4-difluorobenzene	11.313	114	610387	10.000	ppbV		0.00
Standard Area = 676902			Recovery = 90.17%				
67) chlorobenzene-D5	15.992	54	65187	10.000	ppbV	#	0.00
Standard Area = 80563			Recovery = 80.91%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.967	65	125188	8.441	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.41%				
69) toluene-D8	14.142	98	578313	11.353	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.53%				
90) bromofluorobenzene	17.342	95	366585	11.599	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 115.99%				
Target Compounds							Qvalue
2) chlorodifluoromethane	3.922	51	608049	47.435	ppbV		97
3) propylene	3.952	41	407929M6	41.756	ppbV		
4) propane	3.976	29	397821	47.460	ppbV		95
5) dichlorodifluoromethane	4.030	85	604523	42.736	ppbV		99
6) chloromethane	4.192	50	371450	45.920	ppbV		100
7) Freon-114	4.300	85	746083	42.939	ppbV		96
8) methanol	4.354	31	753203	230.386	ppbV		98
9) vinyl chloride	4.420	62	357141	43.572	ppbV		98
10) 1,3-butadiene	4.564	54	291120	44.545	ppbV		91
11) butane	4.618	43	626944	40.919	ppbV		99
12) acetaldehyde	4.312	29	941938	224.170	ppbV		85
13) bromomethane	4.846	94	311163	42.514	ppbV		99
14) chloroethane	5.038	64	173303	42.857	ppbV		97
15) ethanol	5.170	31	1238703	219.435	ppbV		94
16) dichlorofluoromethane	5.146	67	623537	40.999	ppbV		99
17) vinyl bromide	5.413	106	321968	41.560	ppbV		99
18) acrolein	5.533	56	161111	46.369	ppbV		98
19) acetone	5.673	43	2158432	201.185	ppbV	#	96
20) acetonitrile	5.393	41	357272	42.221	ppbV		99
21) trichlorofluoromethane	5.870	101	453729	42.796	ppbV		98
22) isopropyl alcohol	5.957	45	1630439	105.063	ppbV		100
23) acrylonitrile	6.193	53	374957	48.376	ppbV		98
24) pentane	6.263	43	1039434	44.287	ppbV		98

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638444.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD050
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.283	31	625842	45.021	ppbV		96
26) 1,1-dichloroethene	6.564	61	572458	40.769	ppbV		92
27) tertiary butyl alcohol	6.612	59	686247	43.271	ppbV		99
28) methylene chloride	6.708	49	548898	48.563	ppbV		91
29) 3-chloropropene	6.840	41	743085	44.008	ppbV		94
30) carbon disulfide	7.008	76	1395787	45.809	ppbV		98
31) Freon 113	7.002	101	831869	44.086	ppbV		97
32) trans-1,2-dichloroethene	7.750	61	619403	40.439	ppbV		91
33) 1,1-dichloroethane	7.975	63	807860	41.970	ppbV		98
34) MTBE	8.033	73	1055232	45.522	ppbV		96
35) vinyl acetate	8.150	43	1153505	44.002	ppbV		99
36) 2-butanone	8.408	43	1192888	44.872	ppbV		97
37) cis-1,2-dichloroethene	8.917	61	578348	41.361	ppbV		91
38) Ethyl Acetate	9.175	61	163110	40.327	ppbV		92
39) chloroform	9.258	83	674358	41.107	ppbV		98
40) Tetrahydrofuran	9.675	42	749781	45.329	ppbV		94
41) 2,2-dichloropropane	9.283	77	484548	44.149	ppbV		91
42) 1,2-dichloroethane	10.083	62	358900	37.496	ppbV	#	92
44) hexane	9.167	57	698252	42.117	ppbV		96
45) diisopropyl ether	9.158	87	398721	44.825	ppbV		98
46) tert-butyl ethyl ether	9.767	59	1237415	42.860	ppbV		96
48) 1,1,1-trichloroethane	10.375	97	561096	43.007	ppbV		98
49) 1,1-dichloropropene	10.733	75	669518	48.804	ppbV		91
50) benzene	10.900	78	1597043	49.211	ppbV		100
51) thiophene	11.047	84	966911	42.402	ppbV		95
52) carbon tetrachloride	11.067	117	500432	43.989	ppbV		99
53) cyclohexane	11.213	56	773468	44.134	ppbV		98
54) tert-amyl methyl ether	11.573	73	1310259	51.616	ppbV		96
55) dibromomethane	11.807	93	473310	44.900	ppbV		98
56) 1,2-dichloropropane	11.840	63	594077	45.254	ppbV		98
57) bromodichloromethane	12.067	83	693852	43.608	ppbV		98
58) 1,4-dioxane	12.093	88	359286	45.032	ppbV		96
59) trichloroethene	12.113	130	684493	46.484	ppbV		99
60) 2,2,4-trimethylpentane	12.160	57	2278233	42.245	ppbV		99
61) methyl methacrylate	12.347	41	674466	46.009	ppbV		92
62) heptane	12.473	43	1190287	47.045	ppbV		97
63) cis-1,3-dichloropropene	13.117	75	846277	51.500	ppbV		91
64) 4-methyl-2-pentanone	13.150	43	1432630	47.435	ppbV		96
65) trans-1,3-dichloropropene	13.742	75	662743	50.884	ppbV		94
66) 1,1,2-trichloroethane	13.942	97	645667	47.808	ppbV		96

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638444.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD050
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.258	91	1803222	49.298	ppbV		99
70) 2-methylthiophene	14.325	97	1605132	47.685	ppbV		99
71) 1,3-dichloropropane	14.283	76	843628	54.493	ppbV		93
72) 2-hexanone	14.525	43	1323820	51.481	ppbV		98
73) 3-methylthiophene	14.517	97	1581890	47.016	ppbV		100
74) dibromochloromethane	14.700	129	793410	50.556	ppbV		100
75) 1,2-dibromoethane	14.950	107	915939	52.952	ppbV		100
76) butyl acetate	15.175	73	238392	58.862	ppbV		81
77) octane	15.267	85	639728	49.806	ppbV		98
78) tetrachloroethene	15.400	166	758988	51.450	ppbV		97
79) 1,1,1,2-tetrachloroethane	16.017	131	599594	49.840	ppbV		99
80) chlorobenzene	16.033	112	1475981	51.903	ppbV		99
81) ethylbenzene	16.367	91	2304769	49.065	ppbV		92
82) 2-ethylthiophene	16.408	97	1793806	47.193	ppbV		96
83) m+p-xylene	16.533	91	3487065	94.349	ppbV		92
84) bromoform	16.600	173	718005	54.584	ppbV		98
85) styrene	16.850	104	1663114	55.385	ppbV		97
86) 1,1,2,2-tetrachloroethane	16.942	83	1331759	48.698	ppbV		97
87) o-xylene	16.942	91	1703852	45.613	ppbV		86
88) 1,2,3-trichloropropane	17.058	75	1060462	54.452	ppbV		97
89) nonane	17.142	43	1808487	53.380	ppbV		90
91) isopropylbenzene	17.458	105	2468654	52.904	ppbV		100
92) bromobenzene	17.542	77	1343799	53.179	ppbV		98
93) 2-chlorotoluene	17.867	126	788167	52.772	ppbV		82
94) n-propylbenzene	17.900	120	869835	52.116	ppbV		84
95) 4-chlorotoluene	17.933	126	785233	55.311	ppbV		88
96) 4-ethyl toluene	18.025	105	2603959	51.307	ppbV		99
97) 1,3,5-trimethylbenzene	18.083	105	2223800	52.124	ppbV		100
98) tert-butylbenzene	18.433	119	2132447	46.278	ppbV		98
99) 1,2,4-trimethylbenzene	18.433	105	2091636	48.802	ppbV		97
100) decane	18.517	57	1716491	45.881	ppbV	#	87
101) Benzyl Chloride	18.558	91	1468817	58.236	ppbV		95
102) 1,3-dichlorobenzene	18.567	146	1707031	53.654	ppbV		98
103) 1,4-dichlorobenzene	18.625	146	1710172	53.747	ppbV		96
104) sec-butylbenzene	18.658	105	3159713	51.557	ppbV		95
105) 1,2,3-trimethylbenzene	18.800	105	1941200	49.574	ppbV		93
106) p-isopropyltoluene	18.792	119	2588914	46.369	ppbV		95
107) 1,2-dichlorobenzene	18.925	146	1650026	54.414	ppbV		100
108) n-butylbenzene	19.158	91	2442851	48.966	ppbV		92
109) indan	18.975	117	2248937	51.717	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638444.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD050
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

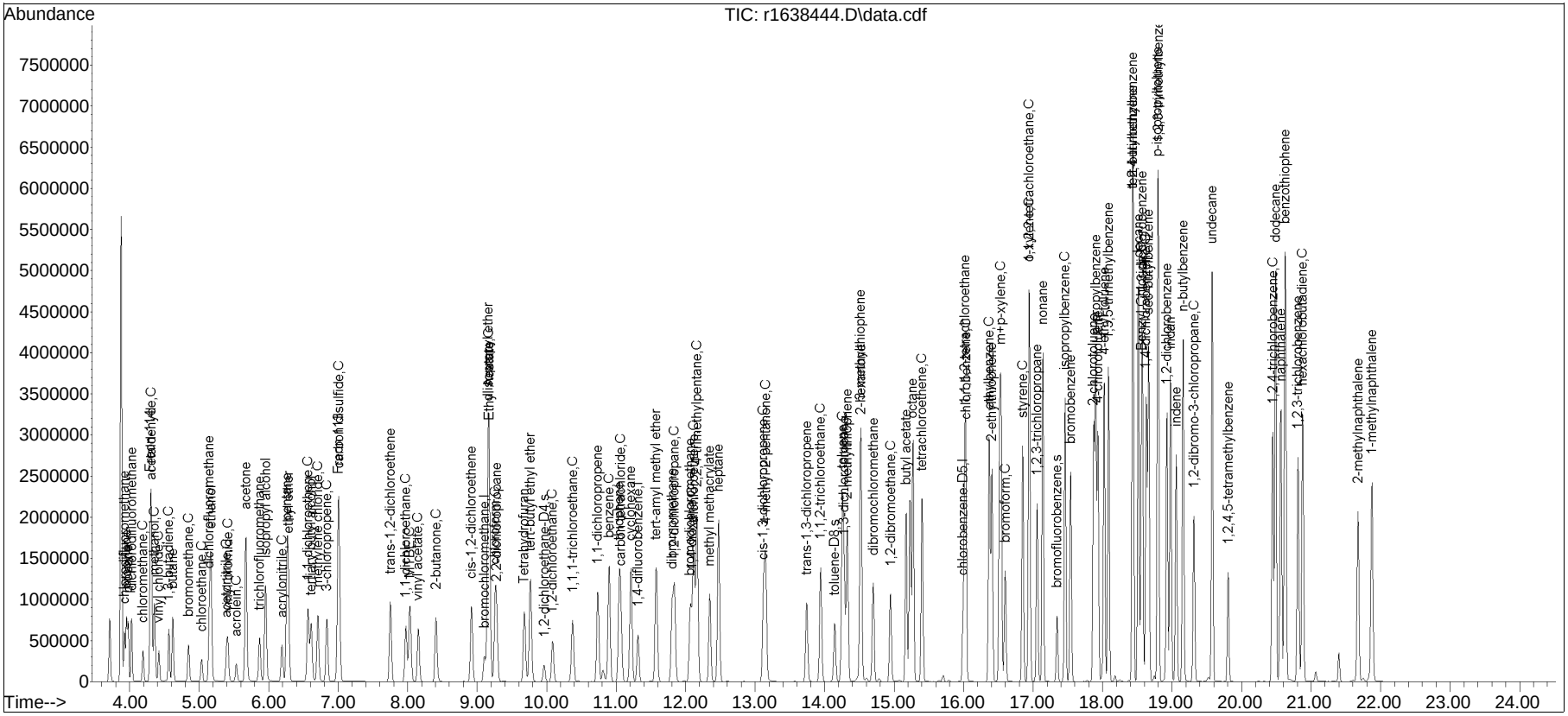
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.058	115	1570494	54.166	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.317	75	538002	54.028	ppbV	95
112) undecane	19.575	57	1710414	44.936	ppbV #	96
113) 1,2,4,5-tetramethylben...	19.808	119	770342	53.311	ppbV	97
114) dodecane	20.492	57	1821073	42.343	ppbV	97
115) 1,2,4-trichlorobenzene	20.450	180	1162982	54.139	ppbV	98
116) naphthalene	20.567	128	3158731	50.877	ppbV	98
117) 1,2,3-trichlorobenzene	20.808	180	1041814	54.166	ppbV	98
118) benzothiophene	20.625	134	4917109	49.283	ppbV	99
119) hexachlorobutadiene	20.875	225	776615	49.201	ppbV	97
120) 2-methylnaphthalene	21.675	142	1394152	62.298	ppbV	97
121) 1-methylnaphthalene	21.875	142	1657785	45.262	ppbV	99

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638444.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD050
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

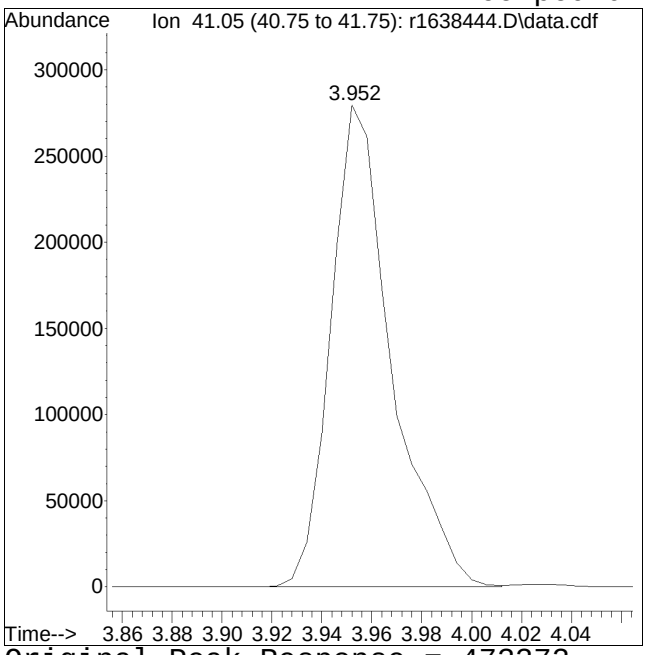
Quant Time: Jul 25 21:53:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration



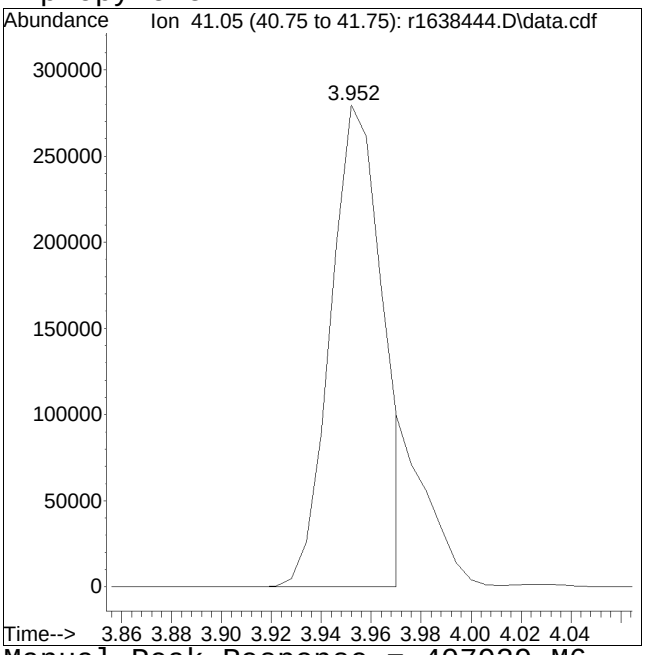
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638444.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 9 Instrument :
Sample : ITO15-LLSTD050 Quant Date : 7/25/2023 9:53 pm

Compound #3: propylene



Original Peak Response = 473372



Manual Peak Response = 407929 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638445.D
Acq On : 25 Jul 2023 1:51 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD100
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:26 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) bromochloromethane	9.108	49	203980	10.000	ppbV		0.00
Standard Area = 211013			Recovery = 96.67%				
43) 1,4-difluorobenzene	11.320	114	602896	10.000	ppbV		0.00
Standard Area = 676902			Recovery = 89.07%				
67) chlorobenzene-D5	15.992	54	64224	10.000	ppbV	#	0.00
Standard Area = 80563			Recovery = 79.72%				
System Monitoring Compounds							
47) 1,2-dichloroethane-D4	9.975	65	112615	7.688	ppbV		0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 76.88%				
69) toluene-D8	14.150	98	538287	10.726	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.26%				
90) bromofluorobenzene	17.342	95	340983	10.950	ppbV		0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.50%				
Target Compounds							Qvalue
2) chlorodifluoromethane	3.928	51	1154388	88.869	ppbV		96
3) propylene	3.958	41	710421M6	71.761	ppbV		
4) propane	3.982	29	761686	89.671	ppbV	#	89
5) dichlorodifluoromethane	4.036	85	1103617	76.990	ppbV		100
6) chloromethane	4.198	50	698107	85.165	ppbV		98
7) Freon-114	4.306	85	1329733	75.522	ppbV		96
8) methanol	4.366	31	1451504	438.127	ppbV		97
9) vinyl chloride	4.426	62	655946	78.972	ppbV		97
10) 1,3-butadiene	4.570	54	548161	82.771	ppbV		87
11) butane	4.624	43	1088921	70.134	ppbV		98
12) acetaldehyde	4.318	29	1742790	409.297	ppbV	#	77
13) bromomethane	4.852	94	560759	75.606	ppbV		100
14) chloroethane	5.044	64	308472	75.279	ppbV		98
15) ethanol	5.182	31	2143825	374.772	ppbV		86
16) dichlorofluoromethane	5.152	67	1093887	70.978	ppbV		100
17) vinyl bromide	5.420	106	558009	71.080	ppbV		97
18) acrolein	5.543	56	300577	85.369	ppbV		99
19) acetone	5.680	43	3563492	327.772	ppbV	#	90
20) acetonitrile	5.403	41	608716	70.988	ppbV		98
21) trichlorofluoromethane	5.873	101	821580	76.471	ppbV		100
22) isopropyl alcohol	5.970	45	2739351	174.193	ppbV		99
23) acrylonitrile	6.203	53	706242	89.917	ppbV		98
24) pentane	6.270	43	1687516	70.952	ppbV	#	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638445.D
Acq On : 25 Jul 2023 1:51 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD100
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:26 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.290	31	1157110	82.143	ppbV		94
26) 1,1-dichloroethene	6.576	61	957322	67.280	ppbV		92
27) tertiary butyl alcohol	6.624	59	1193043	74.236	ppbV		97
28) methylene chloride	6.714	49	1020728	89.117	ppbV		90
29) 3-chloropropene	6.846	41	1247617	72.915	ppbV	#	92
30) carbon disulfide	7.020	76	2414600	78.201	ppbV		98
31) Freon 113	7.008	101	1391185	72.756	ppbV		95
32) trans-1,2-dichloroethene	7.758	61	1040173	67.015	ppbV		90
33) 1,1-dichloroethane	7.983	63	1364428	69.951	ppbV		98
34) MTBE	8.042	73	1918047	81.652	ppbV		96
35) vinyl acetate	8.158	43	2035620	76.627	ppbV		100
36) 2-butanone	8.417	43	2087476	77.488	ppbV		95
37) cis-1,2-dichloroethene	8.925	61	982879	69.366	ppbV		88
38) Ethyl Acetate	9.192	61	277801	67.778	ppbV		65
39) chloroform	9.267	83	1205561	72.520	ppbV		97
40) Tetrahydrofuran	9.683	42	1302009	77.678	ppbV		91
41) 2,2-dichloropropane	9.292	77	903533	81.240	ppbV	#	86
42) 1,2-dichloroethane	10.092	62	619100	63.829	ppbV	#	88
44) hexane	9.175	57	1198595	73.194	ppbV		78
45) diisopropyl ether	9.167	87	695700	79.184	ppbV		86
46) tert-butyl ethyl ether	9.775	59	2135390	74.881	ppbV		93
48) 1,1,1-trichloroethane	10.375	97	976940	75.811	ppbV		96
49) 1,1-dichloropropene	10.740	75	1230334	90.799	ppbV	#	88
50) benzene	10.907	78	2909142	90.756	ppbV		98
51) thiophene	11.053	84	1731016	76.854	ppbV		94
52) carbon tetrachloride	11.073	117	905588	80.592	ppbV		98
53) cyclohexane	11.220	56	1379666	79.701	ppbV		96
54) tert-amyl methyl ether	11.580	73	2390430	95.338	ppbV		95
55) dibromomethane	11.813	93	800362	76.869	ppbV		95
56) 1,2-dichloropropane	11.847	63	994792	76.720	ppbV		98
57) bromodichloromethane	12.073	83	1256909	79.977	ppbV		98
58) 1,4-dioxane	12.100	88	620414	78.728	ppbV		95
59) trichloroethene	12.120	130	1162989	79.960	ppbV		97
60) 2,2,4-trimethylpentane	12.167	57	3894255	73.109	ppbV		97
61) methyl methacrylate	12.353	41	1159841	80.103	ppbV		88
62) heptane	12.480	43	2016058	80.674	ppbV		99
63) cis-1,3-dichloropropene	13.125	75	1548418	95.399	ppbV	#	90
64) 4-methyl-2-pentanone	13.158	43	2455248	82.304	ppbV		96
65) trans-1,3-dichloropropene	13.750	75	1232486	95.803	ppbV		91
66) 1,1,2-trichloroethane	13.950	97	1106280	82.931	ppbV		94

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638445.D
Acq On : 25 Jul 2023 1:51 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD100
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:26 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.258	91	3047320	84.560	ppbV		99
70) 2-methylthiophene	14.333	97	2704053	81.536	ppbV		98
71) 1,3-dichloropropane	14.292	76	1525663	100.026	ppbV		87
72) 2-hexanone	14.533	43	2159709	85.246	ppbV		97
73) 3-methylthiophene	14.517	97	2599152	78.409	ppbV		99
74) dibromochloromethane	14.700	129	1368635	88.518	ppbV		99
75) 1,2-dibromoethane	14.950	107	1604299	94.137	ppbV		99
76) butyl acetate	15.175	73	440277	110.340	ppbV		66
77) octane	15.275	85	1123259	88.763	ppbV		89
78) tetrachloroethene	15.408	166	1301648	89.559	ppbV		99
79) 1,1,1,2-tetrachloroethane	16.017	131	1005149	84.803	ppbV		98
80) chlorobenzene	16.033	112	2479743	88.508	ppbV		99
81) ethylbenzene	16.367	91	3742841	80.875	ppbV		89
82) 2-ethylthiophene	16.408	97	2904024	77.547	ppbV		91
83) m+p-xylene	16.533	91	5595852	153.677	ppbV		91
84) bromoform	16.600	173	1232214	95.079	ppbV		97
85) styrene	16.850	104	2799858	94.639	ppbV		95
86) 1,1,2,2-tetrachloroethane	16.942	83	2211722	82.087	ppbV		97
87) o-xylene	16.942	91	2739349	74.433	ppbV		91
88) 1,2,3-trichloropropane	17.058	75	1905856	99.328	ppbV	#	95
89) nonane	17.133	43	2867282	85.901	ppbV		99
91) isopropylbenzene	17.458	105	4068293	88.493	ppbV		96
92) bromobenzene	17.542	77	2371703	95.264	ppbV		99
93) 2-chlorotoluene	17.867	126	1330764	90.438	ppbV		79
94) n-propylbenzene	17.900	120	1479545	89.976	ppbV		74
95) 4-chlorotoluene	17.933	126	1320023	94.375	ppbV		82
96) 4-ethyl toluene	18.017	105	4344935	86.893	ppbV		97
97) 1,3,5-trimethylbenzene	18.083	105	3678608	87.517	ppbV		95
98) tert-butylbenzene	18.433	119	3402158	74.940	ppbV		98
99) 1,2,4-trimethylbenzene	18.433	105	3222316	76.310	ppbV		98
100) decane	18.517	57	2843457	77.145	ppbV	#	99
101) Benzyl Chloride	18.558	91	2499667	100.593	ppbV		92
102) 1,3-dichlorobenzene	18.575	146	2812639	89.730	ppbV		97
103) 1,4-dichlorobenzene	18.625	146	2852488	90.992	ppbV		99
104) sec-butylbenzene	18.658	105	5145941	85.225	ppbV		93
105) 1,2,3-trimethylbenzene	18.800	105	3028349	78.497	ppbV		95
106) p-isopropyltoluene	18.792	119	4068614	73.964	ppbV		95
107) 1,2-dichlorobenzene	18.925	146	2853353	95.508	ppbV		99
108) n-butylbenzene	19.158	91	4069583	82.796	ppbV		91
109) indan	18.975	117	3847091	89.795	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638445.D
Acq On : 25 Jul 2023 1:51 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD100
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:26 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default - All compounds listed

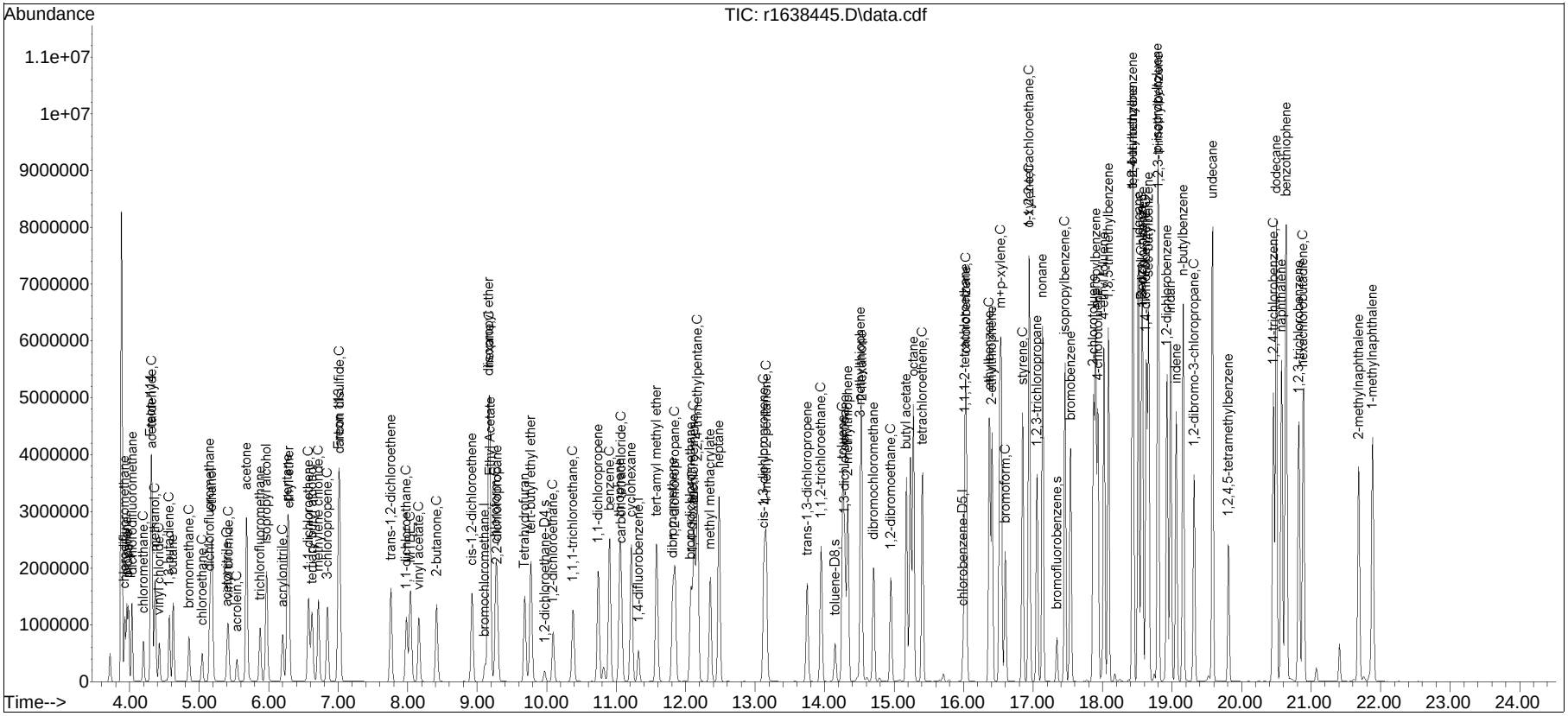
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.058	115	2804230	98.167	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.317	75	983870	100.285	ppbV	#	89
112) undecane	19.583	57	3095629	82.548	ppbV	#	88
113) 1,2,4,5-tetramethylben...	19.808	119	1427184	100.249	ppbV		97
114) dodecane	20.500	57	3107496	73.338	ppbV		88
115) 1,2,4-trichlorobenzene	20.458	180	2000031	94.502	ppbV		95
116) naphthalene	20.575	128	5419993	88.608	ppbV		97
117) 1,2,3-trichlorobenzene	20.825	180	1843074	97.261	ppbV		95
118) benzothiophene	20.642	134	7950883	80.885	ppbV		97
119) hexachlorobutadiene	20.883	225	1300217	83.607	ppbV		98
120) 2-methylnaphthalene	21.683	142	2609127	118.337	ppbV		96
121) 1-methylnaphthalene	21.883	142	2999381	83.120	ppbV		98

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

Sub List : Default - All compounds listed3\07\0725T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638445.D
Acq On : 25 Jul 2023 1:51 PM
Operator : AIRLAB16:APR
Sample : ITO15-LLSTD100
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:53:26 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:52:05 2023
Response via : Initial Calibration

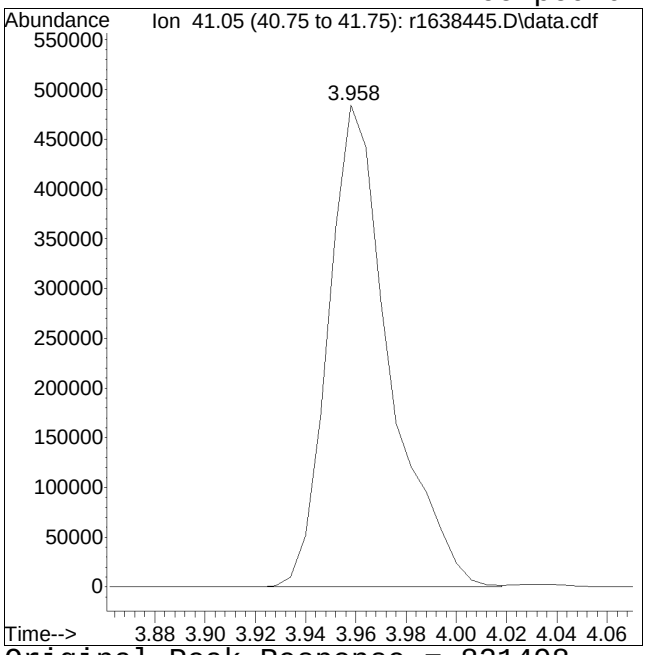


Manual Integration Report

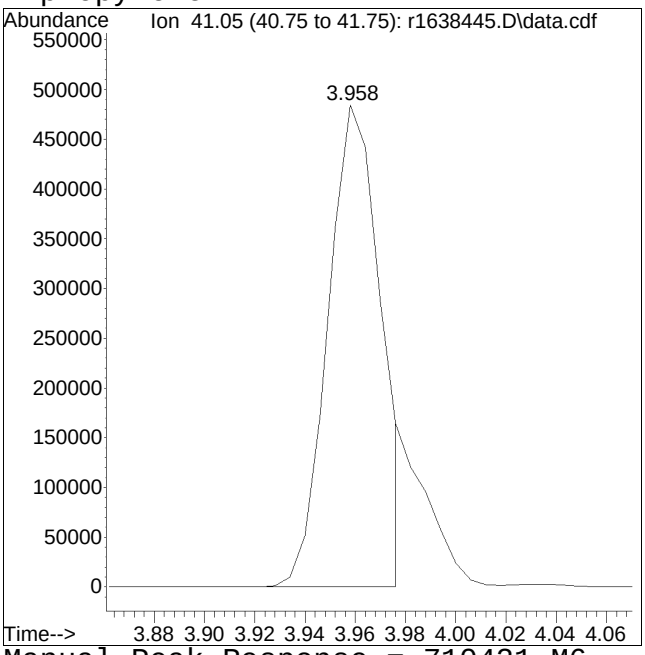
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638445.D
Date Inj'd : 7/25/2020 0:1: 1
Sample : ITO15-LLSTD100

QMethod : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/25/2023 9:53 pm

Compound #3: propylene



Original Peak Response = 821498



Manual Peak Response = 710421 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	92	0.00
2		chlorodifluoromethane	0.654	0.546	16.5	79	0.00
3		propylene	0.475	0.415	12.6	79	0.00
4		propane	0.432	0.375	13.2	83	0.00
5		dichlorodifluoromethane	0.741	0.594	19.8	78	0.00
6	C	chloromethane	0.418	0.348	16.7	80	0.00
7		Freon-114	0.880	0.825	6.3	88	0.00
8	C	methanol	0.161	0.136	15.5	77	0.00
9	C	vinyl chloride	0.418	0.340	18.7	77	0.00
10	C	1,3-butadiene	0.323	0.294	9.0	83	0.00
11		butane	0.773	0.584	24.5	71	0.00
13	C	bromomethane	0.366	0.307	16.1	78	0.00
14	C	chloroethane	0.205	0.173	15.6	79	0.00
15		ethanol	0.264	0.236	10.6	78	0.00
16		dichlorofluoromethane	0.747	0.569	23.8	69	0.00
17	C	vinyl bromide	0.375	0.299	20.3	71	0.00
18	C	acrolein	0.174	0.141	19.0	75	0.00
19		acetone	0.532	0.432	18.8	75	0.00
20	C	acetonitrile	0.420	0.320	23.8	70	0.00
21		trichlorofluoromethane	0.523	0.444	15.1	78	0.00
22		isopropyl alcohol	0.770	0.725	5.8	86	0.00
23	C	acrylonitrile	0.383	0.344	10.2	82	0.00
24		pentane	1.163	0.953	18.1	75	0.00
25		ethyl ether	0.688	0.570	17.2	76	0.00
26	C	1,1-dichloroethene	0.679	0.548	19.3	72	0.00
27		tertiary butyl alcohol	0.746	0.604	19.0	70	0.00
28	C	methylene chloride	0.571	0.551	3.5	90	0.00
29	C	3-chloropropene	0.805	0.730	9.3	80	0.00
30	C	carbon disulfide	1.416	1.302	8.1	79	0.00
31		Freon 113	0.935	0.849	9.2	83	0.00
32		trans-1,2-dichloroethene	0.723	0.556	23.1	67	0.00
33	C	1,1-dichloroethane	0.931	0.753	19.1	72	0.00
34	C	MTBE	1.121	1.009	10.0	81	0.00
35	C	vinyl acetate	1.209	0.635	47.5#	45#	0.00
36	C	2-butanone	1.262	1.118	11.4	78	0.00
37		cis-1,2-dichloroethene	0.673	0.538	20.1	71	0.00
38		Ethyl Acetate	0.182	0.156	14.3	71	0.00
39	C	chloroform	0.805	0.653	18.9	74	0.00
40		Tetrahydrofuran	0.800	0.668	16.5	75	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.531	0.426	19.8	72	0.00
42	C	1,2-dichloroethane	0.480	0.326	32.1#	63	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	86	0.00
44	C	hexane	0.263	0.227	13.7	72	0.00
45		diisopropyl ether	0.142	0.122	14.1	72	0.00
46		tert-butyl ethyl ether	0.451	0.358	20.6	65	0.00
47	s	1,2-dichloroethane-D4	0.233	0.198	15.0	70	0.00
48	C	1,1,1-trichloroethane	0.208	0.173	16.8	70	0.00
49		1,1-dichloropropene	0.226	0.214	5.3	82	0.00
50	C	benzene	0.541	0.501	7.4	81	0.00
52	C	carbon tetrachloride	0.179	0.156	12.8	72	0.00
53		cyclohexane	0.280	0.246	12.1	74	0.00
54		tert-amyl methyl ether	0.413	0.392	5.1	81	0.00
55		dibromomethane	0.170	0.146	14.1	73	0.00
56	C	1,2-dichloropropane	0.213	0.186	12.7	74	0.00
57		bromodichloromethane	0.242	0.219	9.5	72	0.00
58	C	1,4-dioxane	0.124	0.111	10.5	73	0.00
59	C	trichloroethene	0.238	0.224	5.9	80	0.00
60	C	2,2,4-trimethylpentane	0.860	0.743	13.6	72	0.00
61		methyl methacrylate	0.226	0.213	5.8	76	0.00
62		heptane	0.406	0.388	4.4	81	0.00
63	C	cis-1,3-dichloropropene	0.264	0.259	1.9	83	0.00
64	C	4-methyl-2-pentanone	0.469	0.458	2.3	80	0.00
65		trans-1,3-dichloropropene	0.205	0.189	7.8	76	0.00
66	C	1,1,2-trichloroethane	0.222	0.207	6.8	81	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	77	0.00
68	C	toluene	5.630	5.478	2.7	76	0.00
69	s	toluene-D8	7.951	8.715	-9.6	86	0.00
71		1,3-dichloropropane	2.452	2.402	2.0	78	0.00
72		2-hexanone	3.660	3.919	-7.1	77	0.00
74		dibromochloromethane	2.226	2.464	-10.7	79	0.00
75	C	1,2-dibromoethane	2.643	2.805	-6.1	82	0.00
76		butyl acetate	0.608	0.576	5.3	72	0.00
77		octane	1.966	1.821	7.4	72	0.00
78	C	tetrachloroethene	2.337	2.346	-0.4	80	0.00
79		1,1,1,2-tetrachloroethane	1.780	1.821	-2.3	76	0.00
80	C	chlorobenzene	4.433	4.618	-4.2	82	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	ethylbenzene	7.072	7.092	-0.3	76	0.00
83	C	m+p-xylene	5.555	5.692	-2.5	78	0.00
84	C	bromoform	1.847	2.207	-19.5	85	0.00
85	C	styrene	4.624	5.220	-12.9	88	0.00
86	C	1,1,2,2-tetrachloroethane	4.175	4.272	-2.3	79	0.00
87	C	o-xylene	5.547	5.914	-6.6	80	0.00
88		1,2,3-trichloropropane	3.070	3.134	-2.1	81	0.00
89		nonane	5.107	5.625	-10.1	84	0.00
90	s	bromofluorobenzene	4.957	5.601	-13.0	89	0.00
91	C	isopropylbenzene	7.229	7.932	-9.7	86	0.00
92		bromobenzene	3.988	4.052	-1.6	81	0.00
93		2-chlorotoluene	2.264	2.354	-4.0	80	0.00
94		n-propylbenzene	2.535	2.570	-1.4	78	0.00
95		4-chlorotoluene	2.203	2.297	-4.3	82	0.00
96		4-ethyl toluene	7.649	8.436	-10.3	84	0.00
97		1,3,5-trimethylbenzene	6.589	7.324	-11.2	87	0.00
98		tert-butylbenzene	6.863	7.161	-4.3	78	0.00
99		1,2,4-trimethylbenzene	6.421	7.216	-12.4	85	0.00
100		decane	5.601	5.399	3.6	73	0.00
101	C	Benzyl Chloride	3.342	3.717	-11.2	74	0.00
102		1,3-dichlorobenzene	4.912	5.452	-11.0	86	0.00
103	C	1,4-dichlorobenzene	4.928	5.482	-11.2	87	0.00
104		sec-butylbenzene	9.424	10.330	-9.6	85	0.00
106		p-isopropyltoluene	8.274	8.372	-1.2	76	0.00
107		1,2-dichlorobenzene	4.741	5.186	-9.4	86	0.00
108		n-butylbenzene	7.422	8.338	-12.3	84	0.00
111	C	1,2-dibromo-3-chloropropane	1.455	1.575	-8.2	80	0.00
112		undecane	6.029	6.133	-1.7	81	0.00
114		dodecane	6.392	6.428	-0.6	75	0.00
115	C	1,2,4-trichlorobenzene	3.141	3.477	-10.7	82	0.00
116		naphthalene	9.031	10.061	-11.4	82	0.00
117		1,2,3-trichlorobenzene	2.889	3.264	-13.0	86	0.00
119	C	hexachlorobutadiene	2.410	2.561	-6.3	82	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.108	49	194051	10.000	ppbV	0.00
Standard Area = 211013			Recovery = 91.96%			
43) 1,4-difluorobenzene	11.320	114	583109	10.000	ppbV	0.00
Standard Area = 676902			Recovery = 86.14%			
67) chlorobenzene-D5	15.992	54	62366	10.000	ppbV	0.00
Standard Area = 80563			Recovery = 77.41%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.967	65	115255	8.486	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.86%			
69) toluene-D8	14.142	98	543536	10.961	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.61%			
90) bromofluorobenzene	17.342	95	349295	11.299	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 112.99%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.928	51	105859	8.345	ppbV	97
3) propylene	3.964	41	80486M6	8.734	ppbV	
4) propane	3.988	29	72854	8.696	ppbV #	89
5) dichlorodifluoromethane	4.036	85	115250	8.012	ppbV	99
6) chloromethane	4.198	50	67471	8.313	ppbV	100
7) Freon-114	4.306	85	160103	9.377	ppbV	93
8) methanol	4.360	31	132369	42.273	ppbV	98
9) vinyl chloride	4.426	62	66051	8.137	ppbV	98
10) 1,3-butadiene	4.570	54	56958	9.083	ppbV	91
11) butane	4.630	43	113399	7.561	ppbV	99
13) bromomethane	4.852	94	59492	8.373	ppbV	99
14) chloroethane	5.044	64	33511	8.415	ppbV	100
15) ethanol	5.164	31	229316	44.807	ppbV	93
16) dichlorofluoromethane	5.152	67	110460	7.623	ppbV	99
17) vinyl bromide	5.420	106	58002	7.968	ppbV	98
18) acrolein	5.540	56	27353	8.122	ppbV	97
19) acetone	5.677	43	419365	40.610	ppbV #	96
20) acetonitrile	5.397	41	62051	7.616	ppbV	97
21) trichlorofluoromethane	5.877	101	86180	8.499	ppbV	99
22) isopropyl alcohol	5.950	45	351660	23.549	ppbV	99
23) acrylonitrile	6.193	53	66714	8.985	ppbV	97
24) pentane	6.270	43	184930	8.194	ppbV	99
25) ethyl ether	6.290	31	110694	8.293	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	6.576	61	106386	8.080	ppbV		92
27) tertiary butyl alcohol	6.606	59	117138	8.092	ppbV		99
28) methylene chloride	6.714	49	106865	9.641	ppbV		89
29) 3-chloropropene	6.840	41	141602	9.064	ppbV		92
30) carbon disulfide	7.020	76	252604	9.190	ppbV		98
31) Freon 113	7.008	101	164823	9.084	ppbV		98
32) trans-1,2-dichloroethene	7.758	61	107871	7.688	ppbV		93
33) 1,1-dichloroethane	7.975	63	146051	8.085	ppbV		98
34) MTBE	8.042	73	195740	9.002	ppbV		94
35) vinyl acetate	8.158	43	123260	5.255	ppbV		99
36) 2-butanone	8.408	43	217004	8.861	ppbV		96
37) cis-1,2-dichloroethene	8.925	61	104354	7.995	ppbV		90
38) Ethyl Acetate	9.175	61	30269	8.569	ppbV		62
39) chloroform	9.258	83	126660	8.106	ppbV		99
40) Tetrahydrofuran	9.683	42	129699	8.353	ppbV		94
41) 2,2-dichloropropane	9.283	77	82741	8.037	ppbV		92
42) 1,2-dichloroethane	10.092	62	63342	6.798	ppbV	#	90
44) hexane	9.167	57	132212	8.619	ppbV		90
45) diisopropyl ether	9.158	87	70872	8.550	ppbV		88
46) tert-butyl ethyl ether	9.767	59	208734	7.941	ppbV		97
48) 1,1,1-trichloroethane	10.375	97	100932	8.339	ppbV		97
49) 1,1-dichloropropene	10.740	75	124704	9.479	ppbV		90
50) benzene	10.900	78	291933	9.253	ppbV		99
52) carbon tetrachloride	11.073	117	91108	8.705	ppbV		100
53) cyclohexane	11.213	56	143259	8.779	ppbV		98
54) tert-amyl methyl ether	11.580	73	228631	9.486	ppbV		95
55) dibromomethane	11.807	93	85164	8.581	ppbV		95
56) 1,2-dichloropropane	11.840	63	108178	8.712	ppbV		97
57) bromodichloromethane	12.067	83	127888	9.047	ppbV		99
58) 1,4-dioxane	12.093	88	64877	8.993	ppbV		95
59) trichloroethene	12.113	130	130626	9.425	ppbV		99
60) 2,2,4-trimethylpentane	12.160	57	433052	8.635	ppbV		98
61) methyl methacrylate	12.347	41	124011	9.394	ppbV		90
62) heptane	12.473	43	226234	9.565	ppbV		96
63) cis-1,3-dichloropropene	13.125	75	151245	9.837	ppbV		92
64) 4-methyl-2-pentanone	13.150	43	267051	9.763	ppbV		94
65) trans-1,3-dichloropropene	13.742	75	110313	9.243	ppbV		92
66) 1,1,2-trichloroethane	13.942	97	120983	9.359	ppbV		92
68) toluene	14.258	91	341627	9.730	ppbV		100
71) 1,3-dichloropropane	14.283	76	149818	9.798	ppbV		91

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default-ICV-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72)	2-hexanone	14.525	43	244418	10.708	ppbV	93
74)	dibromochloromethane	14.700	129	153669	11.067	ppbV	99
75)	1,2-dibromoethane	14.950	107	174966	10.617	ppbV	99
76)	butyl acetate	15.175	73	35912	9.476	ppbV	88
77)	octane	15.275	85	113538	9.260	ppbV	86
78)	tetrachloroethene	15.400	166	146333	10.042	ppbV	95
79)	1,1,1,2-tetrachloroethane	16.017	131	113590	10.230	ppbV	97
80)	chlorobenzene	16.033	112	288017	10.419	ppbV	99
81)	ethylbenzene	16.367	91	442276	10.028	ppbV	94
83)	m+p-xylene	16.525	91	710024	20.494	ppbV	93
84)	bromoform	16.592	173	137640	11.948	ppbV	96
85)	styrene	16.850	104	325574	11.290	ppbV	97
86)	1,1,2,2-tetrachloroethane	16.942	83	266447	10.233	ppbV	97
87)	o-xylene	16.942	91	368849	10.661	ppbV	96
88)	1,2,3-trichloropropane	17.050	75	195436	10.206	ppbV	96
89)	nonane	17.133	43	350835	11.015	ppbV	87
91)	isopropylbenzene	17.458	105	494671	10.972	ppbV	97
92)	bromobenzene	17.533	77	252703	10.160	ppbV	99
93)	2-chlorotoluene	17.867	126	146806	10.399	ppbV	94
94)	n-propylbenzene	17.892	120	160261	10.136	ppbV	94
95)	4-chlorotoluene	17.925	126	143224	10.424	ppbV	96
96)	4-ethyl toluene	18.017	105	526132	11.029	ppbV	96
97)	1,3,5-trimethylbenzene	18.083	105	456784	11.115	ppbV	98
98)	tert-butylbenzene	18.433	119	446628	10.434	ppbV	99
99)	1,2,4-trimethylbenzene	18.433	105	450053	11.238	ppbV	94
100)	decane	18.508	57	336737	9.641	ppbV	85
101)	Benzyl Chloride	18.550	91	231812	11.123	ppbV	97
102)	1,3-dichlorobenzene	18.567	146	340035	11.100	ppbV	98
103)	1,4-dichlorobenzene	18.625	146	341890	11.124	ppbV	95
104)	sec-butylbenzene	18.658	105	644257	10.962	ppbV	100
106)	p-isopropyltoluene	18.792	119	522128	10.118	ppbV	95
107)	1,2-dichlorobenzene	18.917	146	323446	10.940	ppbV	96
108)	n-butylbenzene	19.158	91	520035	11.235	ppbV	99
111)	1,2-dibromo-3-chloropr...	19.308	75	98247	10.824	ppbV	90
112)	undecane	19.575	57	382465	10.172	ppbV	96
114)	dodecane	20.492	57	400908	10.057	ppbV	91
115)	1,2,4-trichlorobenzene	20.450	180	216868	11.069	ppbV	100
116)	naphthalene	20.567	128	627483	11.141	ppbV	100
117)	1,2,3-trichlorobenzene	20.817	180	203541	11.296	ppbV	99
119)	hexachlorobutadiene	20.883	225	159712	10.628	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725T_I\r1638442.D
Sub List : Default-ICV-AP2 - All compounds listed

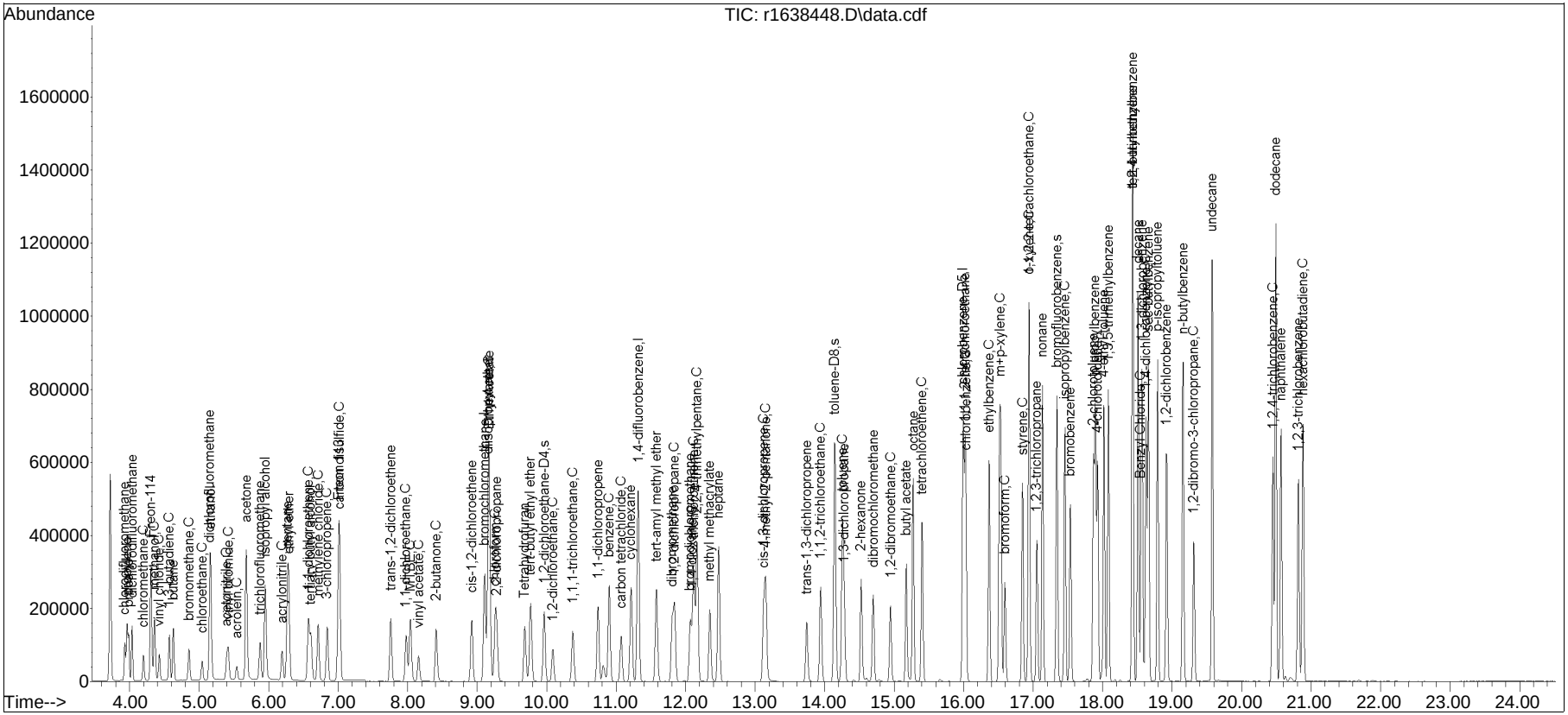
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed5T_I\r1638442.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725T_I\
Data File : r1638448.D
Acq On : 26 Jul 2023 12:26 AM
Operator : AIRLAB16:APR
Sample : CTO15-LLSTD010
Misc : WG1807898
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 26 07:47:30 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725T_I\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

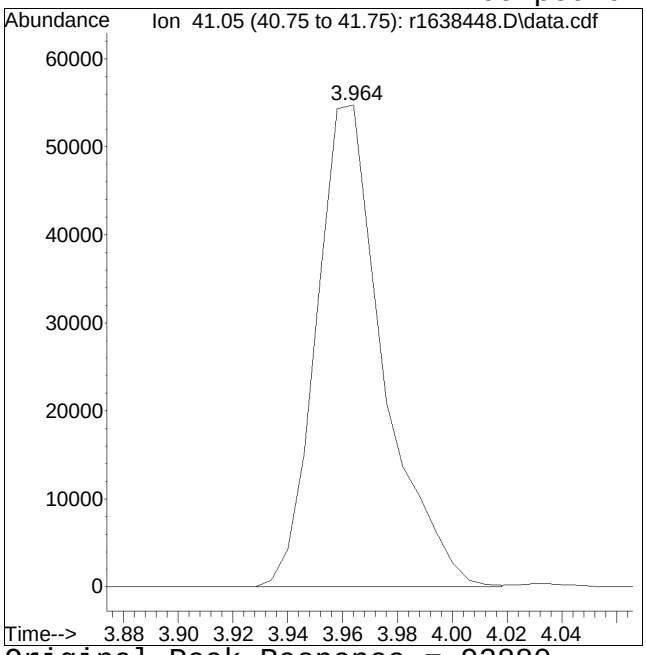


Manual Integration Report

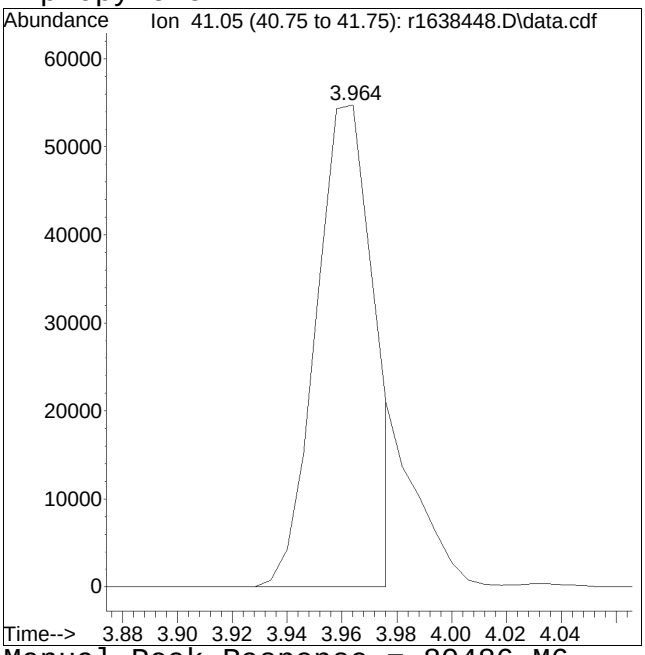
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638448.D
Date Inj'd : 7/26/2020 0:2: 6
Sample : CTO15-LLSTD010

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 7/26/2023 7:47 am

Compound #3: propylene



Original Peak Response = 92880



Manual Peak Response = 80486 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**	: L2347540		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB16	**Calibration Date**	: 08/22/23 10:32		
Lab File ID	: R1638952	**Init. Calib. Date(s)**	: 07/25/23	07/25/23	
Sample No	: WG1818792-2	**Init. Calib. Times**	: 09:10	13:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	102	0
chlorodifluoromethane	0.654	0.66	-	-0.9	30	105	0
propylene	0.475	0.455	-	4.2	30	95	0
propane	0.432	0.429	-	0.7	30	105	0
dichlorodifluoromethane	0.741	0.707	-	4.6	30	102	0
chloromethane	0.418	0.332	-	20.6	30	84	0
Freon-114	0.88	0.894	-	-1.6	30	105	0
methanol	0.161	0.15	-	6.8	30	94	0
vinyl chloride	0.418	0.428	-	-2.4	30	107	0
1,3-butadiene	0.323	0.304	-	5.9	30	95	0
butane	0.773	0.665	-	14	30	89	0
bromomethane	0.366	0.354	-	3.3	30	99	0
chloroethane	0.205	0.198	-	3.4	30	100	0
ethanol	0.264	0.243	-	8	30	88	0
dichlorofluoromethane	0.747	0.682	-	8.7	30	92	0
vinyl bromide	0.375	0.313	-	16.5	30	83	0
acrolein	0.174	0.156	-	10.3	30	92	0
acetone	0.532	0.477	-	10.3	30	91	0
acetonitrile	0.42	0.4	-	4.8	30	97	0
trichlorofluoromethane	0.523	0.511	-	2.3	30	99	0
isopropyl alcohol	0.77	0.604	-	21.6	30	80	0
acrylonitrile	0.383	0.396	-	-3.4	30	104	0
pentane	1.163	0.877	-	24.6	30	76	0
ethyl ether	0.688	0.715	-	-3.9	30	105	0
1,1-dichloroethene	0.679	0.598	-	11.9	30	87	0
tertiary butyl alcohol	0.746	0.668	-	10.5	30	86	0
methylene chloride	0.571	0.541	-	5.3	30	98	0
3-chloropropene	0.805	0.672	-	16.5	30	81	0
carbon disulfide	1.416	1.499	-	-5.9	30	101	0
Freon 113	0.935	0.828	-	11.4	30	90	0
trans-1,2-dichloroethene	0.723	0.676	-	6.5	30	90	0
1,1-dichloroethane	0.931	0.792	-	14.9	30	84	0
MTBE	1.121	0.917	-	18.2	30	81	0
vinyl acetate	1.209	0.977	-	19.2	30	76	0
2-butanone	1.262	1.025	-	18.8	30	79	0
cis-1,2-dichloroethene	0.673	0.602	-	10.5	30	88	0
Ethyl Acetate	0.182	0.187	-	-2.7	30	94	0
chloroform	0.805	0.732	-	9.1	30	91	0
Tetrahydrofuran	0.8	0.642	-	19.8	30	79	0
2,2-dichloropropane	0.531	0.464	-	12.6	30	86	0
1,2-dichloroethane	0.48	0.363	-	24.4	30	78	0
1,4-difluorobenzene	1	1	-	0	30	99	0
hexane	0.263	0.285	-	-8.4	30	103	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB16	**Calibration Date**	: 08/22/23 10:32		
Lab File ID	: R1638952	**Init. Calib. Date(s)**	: 07/25/23	07/25/23	
Sample No	: WG1818792-2	**Init. Calib. Times**	: 09:10	13:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.142	0.133	-	6.3	30	90	0
tert-butyl ethyl ether	0.451	0.408	-	9.5	30	85	0
1,1,1-trichloroethane	0.208	0.163	-	21.6	30	75	0
1,1-dichloropropene	0.226	0.217	-	4	30	95	0
benzene	0.541	0.532	-	1.7	30	99	0
carbon tetrachloride	0.179	0.157	-	12.3	30	83	0
cyclohexane	0.28	0.308	-	-10	30	106	0
tert-amyl methyl ether	0.413	0.361	-	12.6	30	86	0
dibromomethane	0.17	0.164	-	3.5	30	94	0
1,2-dichloropropane	0.213	0.189	-	11.3	30	87	0
bromodichloromethane	0.242	0.256	-	-5.8	30	97	0
1,4-dioxane	0.124	0.12	-	3.2	30	91	0
trichloroethene	0.238	0.219	-	8	30	90	0
2,2,4-trimethylpentane	0.86	0.925	-	-7.6	30	103	0
methyl methacrylate	0.226	0.198	-	12.4	30	81	0
heptane	0.406	0.337	-	17	30	80	0
cis-1,3-dichloropropene	0.264	0.24	-	9.1	30	88	0
4-methyl-2-pentanone	0.469	0.402	-	14.3	30	80	0
trans-1,3-dichloropropene	0.205	0.205	-	0	30	95	0
1,1,2-trichloroethane	0.222	0.201	-	9.5	30	90	0
chlorobenzene-D5	1	1	-	0	30	102	0
toluene	5.63	4.729	-	16	30	86	0
1,3-dichloropropane	2.452	2.295	-	6.4	30	99	0
2-hexanone	3.66	3.029	-	17.2	30	79	0
dibromochloromethane	2.226	2.186	-	1.8	30	93	0
1,2-dibromoethane	2.643	2.454	-	7.2	30	95	0
butyl acetate	0.608	0.565	-	7.1	30	93	0
octane	1.966	1.843	-	6.3	30	96	0
tetrachloroethene	2.337	2.015	-	13.8	30	91	0
1,1,1,2-tetrachloroethane	1.78	1.677	-	5.8	30	93	0
chlorobenzene	4.433	4.064	-	8.3	30	95	0
ethylbenzene	7.072	6.002	-	15.1	30	85	0
m+p-xylene	5.555	4.801	-	13.6	30	87	0
bromoform	1.847	1.854	-	-0.4	30	94	0
styrene	4.624	4.262	-	7.8	30	95	0
1,1,2,2-tetrachloroethane	4.175	4.148	-	0.6	30	101	0
o-xylene	5.547	4.891	-	11.8	30	87	0
1,2,3-trichloropropane	3.07	3.001	-	2.2	30	103	0
nonane	5.107	4.28	-	16.2	30	84	0
isopropylbenzene	7.229	6.796	-	6	30	97	0
bromobenzene	3.988	3.852	-	3.4	30	102	0
2-chlorotoluene	2.264	2.116	-	6.5	30	95	0
n-propylbenzene	2.535	2.35	-	7.3	30	94	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB16	**Calibration Date**	: 08/22/23 10:32		
Lab File ID	: R1638952	**Init. Calib. Date(s)**	: 07/25/23	07/25/23	
Sample No	: WG1818792-2	**Init. Calib. Times**	: 09:10	13:51	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.203	2.042	-	7.3	30	96	0
4-ethyl toluene	7.649	7.368	-	3.7	30	97	0
1,3,5-trimethylbenzene	6.589	5.953	-	9.7	30	93	0
tert-butylbenzene	6.863	6.352	-	7.4	30	92	0
1,2,4-trimethylbenzene	6.421	5.822	-	9.3	30	91	0
decane	5.601	5.52	-	1.4	30	99	0
Benzyl Chloride	3.342	3.451	-	-3.3	30	91	0
1,3-dichlorobenzene	4.912	4.504	-	8.3	30	95	0
1,4-dichlorobenzene	4.928	4.531	-	8.1	30	95	0
sec-butylbenzene	9.424	8.941	-	5.1	30	97	0
p-isopropyltoluene	8.274	7.685	-	7.1	30	92	0
1,2-dichlorobenzene	4.741	4.242	-	10.5	30	93	0
n-butylbenzene	7.422	6.756	-	9	30	90	0
1,2-dibromo-3-chloropropan	1.455	1.35	-	7.2	30	91	0
undecane	6.029	5.786	-	4	30	102	0
dodecane	6.392	6.398	-	-0.1	30	99	0
1,2,4-trichlorobenzene	3.141	2.58	-	17.9	30	80	0
naphthalene	9.031	8.137	-	9.9	30	88	0
1,2,3-trichlorobenzene	2.889	2.5	-	13.5	30	87	0
hexachlorobutadiene	2.41	1.849	-	23.3	30	78	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	102	0.00
2		chlorodifluoromethane	0.654	0.660	-0.9	105	0.00
3		propylene	0.475	0.455	4.2	95	0.00
4		propane	0.432	0.429	0.7	105	0.00
5		dichlorodifluoromethane	0.741	0.707	4.6	102	0.00
6	C	chloromethane	0.418	0.332	20.6	84	0.00
7		Freon-114	0.880	0.894	-1.6	105	0.00
8	C	methanol	0.161	0.150	6.8	94	0.00
9	C	vinyl chloride	0.418	0.428	-2.4	107	0.00
10	C	1,3-butadiene	0.323	0.304	5.9	95	0.00
11		butane	0.773	0.665	14.0	89	0.00
13	C	bromomethane	0.366	0.354	3.3	99	0.00
14	C	chloroethane	0.205	0.198	3.4	100	0.00
15		ethanol	0.264	0.243	8.0	88	0.00
16		dichlorofluoromethane	0.747	0.682	8.7	92	0.00
17	C	vinyl bromide	0.375	0.313	16.5	83	0.00
18	C	acrolein	0.174	0.156	10.3	92	0.00
19		acetone	0.532	0.477	10.3	91	0.00
20	C	acetonitrile	0.420	0.400	4.8	97	0.00
21		trichlorofluoromethane	0.523	0.511	2.3	99	0.00
22		isopropyl alcohol	0.770	0.604	21.6	80	0.00
23	C	acrylonitrile	0.383	0.396	-3.4	104	0.00
24		pentane	1.163	0.877	24.6	76	0.00
25		ethyl ether	0.688	0.715	-3.9	105	0.00
26	C	1,1-dichloroethene	0.679	0.598	11.9	87	0.00
27		tertiary butyl alcohol	0.746	0.668	10.5	86	0.00
28	C	methylene chloride	0.571	0.541	5.3	98	0.00
29	C	3-chloropropene	0.805	0.672	16.5	81	0.00
30	C	carbon disulfide	1.416	1.499	-5.9	101	0.00
31		Freon 113	0.935	0.828	11.4	90	0.00
32		trans-1,2-dichloroethene	0.723	0.676	6.5	90	0.00
33	C	1,1-dichloroethane	0.931	0.792	14.9	84	0.00
34	C	MTBE	1.121	0.917	18.2	81	0.00
35	C	vinyl acetate	1.209	0.977	19.2	76	0.00
36	C	2-butanone	1.262	1.025	18.8	79	0.00
37		cis-1,2-dichloroethene	0.673	0.602	10.5	88	0.00
38		Ethyl Acetate	0.182	0.187	-2.7	94	0.00
39	C	chloroform	0.805	0.732	9.1	91	0.00
40		Tetrahydrofuran	0.800	0.642	19.8	79	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.531	0.464	12.6	86	0.00
42	C	1,2-dichloroethane	0.480	0.363	24.4	78	0.00
43	I	1,4-difluorobenzene	1.000	1.000	0.0	99	0.00
44	C	hexane	0.263	0.285	-8.4	103	0.00
45		diisopropyl ether	0.142	0.133	6.3	90	0.00
46		tert-butyl ethyl ether	0.451	0.408	9.5	85	0.00
48	C	1,1,1-trichloroethane	0.208	0.163	21.6	75	0.00
49		1,1-dichloropropene	0.226	0.217	4.0	95	0.00
50	C	benzene	0.541	0.532	1.7	99	0.00
52	C	carbon tetrachloride	0.179	0.157	12.3	83	0.00
53		cyclohexane	0.280	0.308	-10.0	106	0.00
54		tert-amyl methyl ether	0.413	0.361	12.6	86	0.00
55		dibromomethane	0.170	0.164	3.5	94	0.00
56	C	1,2-dichloropropane	0.213	0.189	11.3	87	0.00
57		bromodichloromethane	0.242	0.256	-5.8	97	0.00
58	C	1,4-dioxane	0.124	0.120	3.2	91	0.00
59	C	trichloroethene	0.238	0.219	8.0	90	0.00
60	C	2,2,4-trimethylpentane	0.860	0.925	-7.6	103	0.00
61		methyl methacrylate	0.226	0.198	12.4	81	0.00
62		heptane	0.406	0.337	17.0	80	0.00
63	C	cis-1,3-dichloropropene	0.264	0.240	9.1	88	0.00
64	C	4-methyl-2-pentanone	0.469	0.402	14.3	80	0.00
65		trans-1,3-dichloropropene	0.205	0.205	0.0	95	0.00
66	C	1,1,2-trichloroethane	0.222	0.201	9.5	90	0.00
67	I	chlorobenzene-D5	1.000	1.000	0.0	102	0.00
68	C	toluene	5.630	4.729	16.0	86	0.00
71		1,3-dichloropropane	2.452	2.295	6.4	99	0.00
72		2-hexanone	3.660	3.029	17.2	79	0.00
74		dibromochloromethane	2.226	2.186	1.8	93	0.00
75	C	1,2-dibromoethane	2.643	2.454	7.2	95	0.00
76		butyl acetate	0.608	0.565	7.1	93	0.00
77		octane	1.966	1.843	6.3	96	0.00
78	C	tetrachloroethene	2.337	2.015	13.8	91	0.00
79		1,1,1,2-tetrachloroethane	1.780	1.677	5.8	93	0.00
80	C	chlorobenzene	4.433	4.064	8.3	95	0.00
81	C	ethylbenzene	7.072	6.002	15.1	85	0.00
83	C	m+p-xylene	5.555	4.801	13.6	87	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	1.847	1.854	-0.4	94	0.00
85	C	styrene	4.624	4.262	7.8	95	0.00
86	C	1,1,2,2-tetrachloroethane	4.175	4.148	0.6	101	0.00
87	C	o-xylene	5.547	4.891	11.8	87	0.00
88		1,2,3-trichloropropane	3.070	3.001	2.2	103	0.00
89		nonane	5.107	4.280	16.2	84	0.00
91	C	isopropylbenzene	7.229	6.796	6.0	97	0.00
92		bromobenzene	3.988	3.852	3.4	102	0.00
93		2-chlorotoluene	2.264	2.116	6.5	95	0.00
94		n-propylbenzene	2.535	2.350	7.3	94	0.00
95		4-chlorotoluene	2.203	2.042	7.3	96	0.00
96		4-ethyl toluene	7.649	7.368	3.7	97	0.00
97		1,3,5-trimethylbenzene	6.589	5.953	9.7	93	0.00
98		tert-butylbenzene	6.863	6.352	7.4	92	0.00
99		1,2,4-trimethylbenzene	6.421	5.822	9.3	91	0.00
100		decane	5.601	5.520	1.4	99	0.00
101	C	Benzyl Chloride	3.342	3.451	-3.3	91	0.00
102		1,3-dichlorobenzene	4.912	4.504	8.3	95	0.00
103	C	1,4-dichlorobenzene	4.928	4.531	8.1	95	0.00
104		sec-butylbenzene	9.424	8.941	5.1	97	0.00
106		p-isopropyltoluene	8.274	7.685	7.1	92	0.00
107		1,2-dichlorobenzene	4.741	4.242	10.5	93	0.00
108		n-butylbenzene	7.422	6.756	9.0	90	0.00
111	C	1,2-dibromo-3-chloropropane	1.455	1.350	7.2	91	0.00
112		undecane	6.029	5.786	4.0	102	0.00
114		dodecane	6.392	6.398	-0.1	99	0.00
115	C	1,2,4-trichlorobenzene	3.141	2.580	17.9	80	0.00
116		naphthalene	9.031	8.137	9.9	88	0.00
117		1,2,3-trichlorobenzene	2.889	2.500	13.5	87	0.00
119	C	hexachlorobutadiene	2.410	1.849	23.3	78	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	214255	10.000	ppbV	0.00
Standard Area = 214255			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.307	114	667571	10.000	ppbV	0.00
Standard Area = 667571			Recovery = 100.00%			
67) chlorobenzene-D5	15.983	54	82563	10.000	ppbV	0.00
Standard Area = 82563			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.922	51	141488	10.102	ppbV	96
3) propylene	3.958	41	97474M4	9.580	ppbV	
4) propane	3.982	29	91976	9.943	ppbV	90
5) dichlorodifluoromethane	4.030	85	151553	9.543	ppbV	99
6) chloromethane	4.192	50	71226	7.948	ppbV	97
7) Freon-114	4.300	85	191641	10.166	ppbV	94
8) methanol	4.354	31	160325	46.373	ppbV	92
9) vinyl chloride	4.420	62	91755	10.238	ppbV	98
10) 1,3-butadiene	4.564	54	65238	9.423	ppbV	90
11) butane	4.624	43	142388	8.599	ppbV	97
13) bromomethane	4.846	94	75949	9.682	ppbV	100
14) chloroethane	5.032	64	42405	9.645	ppbV	95
15) ethanol	5.158	31	260121	46.033	ppbV	90
16) dichlorofluoromethane	5.146	67	146138	9.134	ppbV	98
17) vinyl bromide	5.413	106	67050	8.342	ppbV	97
18) acrolein	5.533	56	33381	8.977	ppbV	97
19) acetone	5.670	43	511458	44.858	ppbV	92
20) acetonitrile	5.390	41	85690	9.525	ppbV	97
21) trichlorofluoromethane	5.867	101	109576	9.787	ppbV	95
22) isopropyl alcohol	5.943	45	323674	19.631	ppbV #	96
23) acrylonitrile	6.187	53	84758	10.338	ppbV	97
24) pentane	6.263	43	187961	7.543	ppbV #	92
25) ethyl ether	6.283	31	153159	10.393	ppbV #	88
26) 1,1-dichloroethene	6.564	61	128206	8.819	ppbV	96
27) tertiary butyl alcohol	6.600	59	143125	8.954	ppbV	98
28) methylene chloride	6.708	49	115996	9.478	ppbV	98
29) 3-chloropropene	6.834	41	143953	8.345	ppbV #	94
30) carbon disulfide	7.008	76	321263	10.586	ppbV #	94
31) Freon 113	7.002	101	177347	8.853	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) trans-1,2-dichloroethene	7.750	61	144811	9.348	ppbV		100
33) 1,1-dichloroethane	7.975	63	169727	8.510	ppbV		98
34) MTBE	8.033	73	196526	8.186	ppbV		95
35) vinyl acetate	8.150	43	209243	8.080	ppbV	#	95
36) 2-butanone	8.400	43	219559	8.120	ppbV	#	92
37) cis-1,2-dichloroethene	8.917	61	128940	8.947	ppbV		98
38) Ethyl Acetate	9.167	61	39989	10.253	ppbV		86
39) chloroform	9.250	83	156935	9.097	ppbV		98
40) Tetrahydrofuran	9.675	42	137567	8.024	ppbV		91
41) 2,2-dichloropropane	9.275	77	99368	8.741	ppbV		92
42) 1,2-dichloroethane	10.083	62	77820	7.564	ppbV	#	92
44) hexane	9.167	57	189957	10.817	ppbV	#	67
45) diisopropyl ether	9.150	87	88976	9.375	ppbV		72
46) tert-butyl ethyl ether	9.758	59	272644	9.060	ppbV		97
48) 1,1,1-trichloroethane	10.367	97	108686	7.843	ppbV		91
49) 1,1-dichloropropene	10.733	75	144577	9.599	ppbV		93
50) benzene	10.893	78	354926	9.827	ppbV		99
52) carbon tetrachloride	11.067	117	105082	8.770	ppbV		98
53) cyclohexane	11.207	56	205479	10.998	ppbV	#	88
54) tert-amyl methyl ether	11.573	73	240991	8.734	ppbV		93
55) dibromomethane	11.800	93	109330	9.622	ppbV		98
56) 1,2-dichloropropane	11.833	63	126218	8.879	ppbV		98
57) bromodichloromethane	12.060	83	171096	10.572	ppbV		98
58) 1,4-dioxane	12.087	88	80235	9.714	ppbV		96
59) trichloroethene	12.113	130	146290	9.219	ppbV		98
60) 2,2,4-trimethylpentane	12.160	57	617268	10.751	ppbV	#	89
61) methyl methacrylate	12.340	41	131902	8.728	ppbV		91
62) heptane	12.467	43	225016	8.310	ppbV	#	84
63) cis-1,3-dichloropropene	13.117	75	159895	9.084	ppbV		94
64) 4-methyl-2-pentanone	13.142	43	268044	8.559	ppbV	#	86
65) trans-1,3-dichloropropene	13.733	75	136530	9.992	ppbV		93
66) 1,1,2-trichloroethane	13.933	97	134272	9.072	ppbV		92
68) toluene	14.250	91	390453	8.400	ppbV		99
71) 1,3-dichloropropane	14.275	76	189482	9.361	ppbV		86
72) 2-hexanone	14.517	43	250083	8.276	ppbV	#	79
74) dibromochloromethane	14.692	129	180495	9.819	ppbV		100
75) 1,2-dibromoethane	14.942	107	202571	9.285	ppbV		99
76) butyl acetate	15.167	73	46615	9.291	ppbV		71
77) octane	15.267	85	152200	9.377	ppbV		84
78) tetrachloroethene	15.400	166	166352	8.623	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

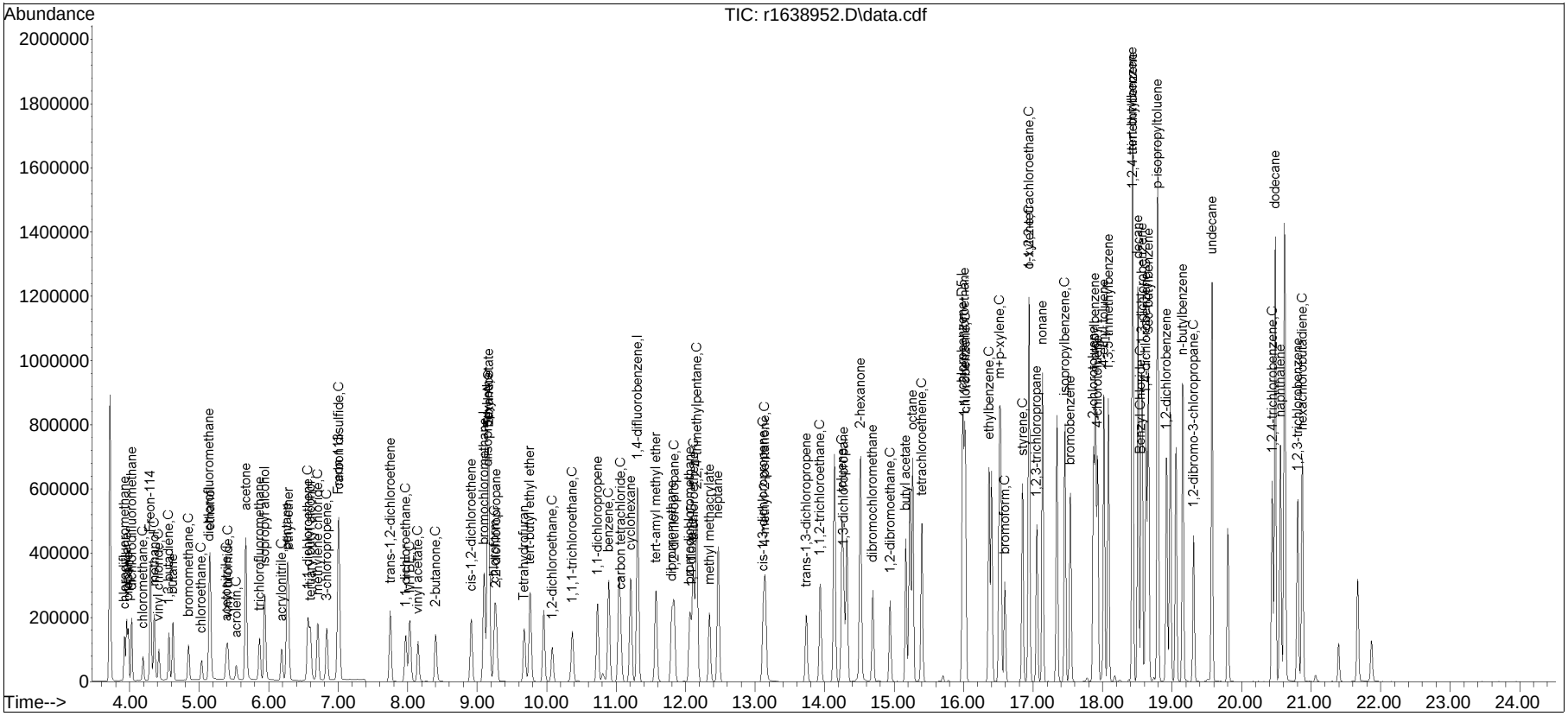
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
79) 1,1,1,2-tetrachloroethane	16.008	131	138474	9.420	ppbV		98
80) chlorobenzene	16.025	112	335496	9.167	ppbV		99
81) ethylbenzene	16.367	91	495505	8.487	ppbV		92
83) m+p-xylene	16.517	91	792816	17.286	ppbV		95
84) bromoform	16.592	173	153045	10.035	ppbV		96
85) styrene	16.850	104	351924	9.219	ppbV		100
86) 1,1,2,2-tetrachloroethane	16.942	83	342478	9.935	ppbV		98
87) o-xylene	16.942	91	403807	8.817	ppbV		94
88) 1,2,3-trichloropropane	17.050	75	247749	9.773	ppbV		95
89) nonane	17.133	43	353389	8.381	ppbV		84
91) isopropylbenzene	17.458	105	561075	9.401	ppbV		98
92) bromobenzene	17.533	77	318024	9.658	ppbV		97
93) 2-chlorotoluene	17.867	126	174715	9.348	ppbV		91
94) n-propylbenzene	17.892	120	194013	9.269	ppbV		97
95) 4-chlorotoluene	17.925	126	168605	9.270	ppbV		95
96) 4-ethyl toluene	18.017	105	608319	9.632	ppbV		96
97) 1,3,5-trimethylbenzene	18.083	105	491523	9.035	ppbV		99
98) tert-butylbenzene	18.425	119	524429	9.255	ppbV		99
99) 1,2,4-trimethylbenzene	18.433	105	480679	9.066	ppbV		99
100) decane	18.508	57	455747	9.856	ppbV		86
101) Benzyl Chloride	18.550	91	284960	10.328	ppbV		97
102) 1,3-dichlorobenzene	18.567	146	371864	9.170	ppbV		100
103) 1,4-dichlorobenzene	18.625	146	374111	9.194	ppbV		99
104) sec-butylbenzene	18.658	105	738185	9.487	ppbV		99
106) p-isopropyltoluene	18.792	119	634462	9.287	ppbV		98
107) 1,2-dichlorobenzene	18.917	146	350267	8.949	ppbV		98
108) n-butylbenzene	19.150	91	557813	9.103	ppbV		98
111) 1,2-dibromo-3-chloropr...	19.308	75	111455	9.275	ppbV		91
112) undecane	19.575	57	477689	9.596	ppbV	#	80
114) dodecane	20.483	57	528256	10.010	ppbV	#	78
115) 1,2,4-trichlorobenzene	20.442	180	212974	8.211	ppbV		98
116) naphthalene	20.558	128	671824	9.010	ppbV		99
117) 1,2,3-trichlorobenzene	20.808	180	206383	8.652	ppbV		97
119) hexachlorobutadiene	20.875	225	152649	7.673	ppbV		96

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

Sub List : Default-LCS-AP2 - All compounds listed2T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638952.D
Acq On : 22 Aug 2023 10:32 AM
Operator : AIRLAB16:APR
Sample : WG1818792-2
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:06 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

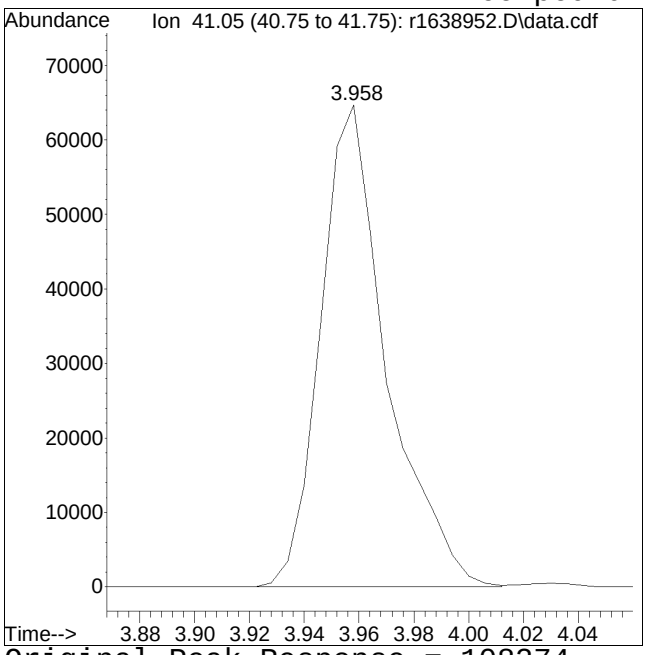


Manual Integration Report

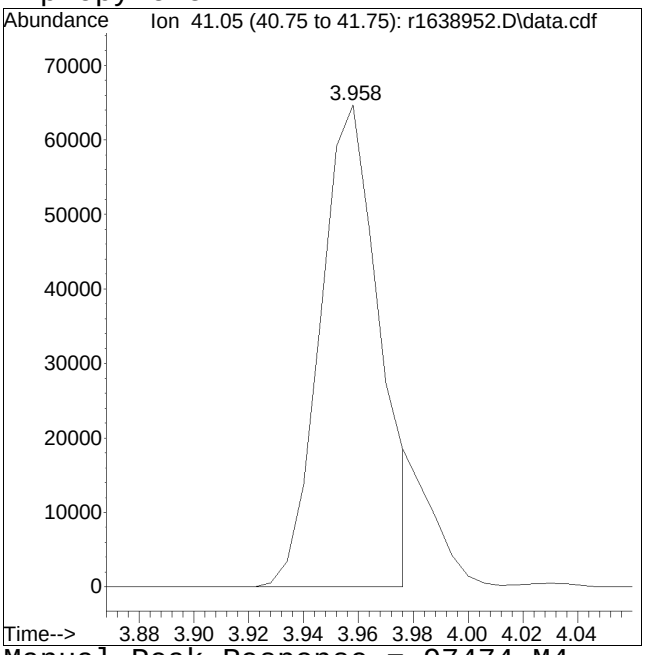
Data Path : O:\Forensics\Data\Airlab16\
Data File : r1638952.D
Date Inj'd : 8/22/2020 0:0: 2
Sample : WG1818792-2

Method : TFS16_230725.M
Operator : AIRLAB16:APR
Instrument :
Quant Date : 8/22/2023 1:20 pm

Compound #3: propylene



Original Peak Response = 108274



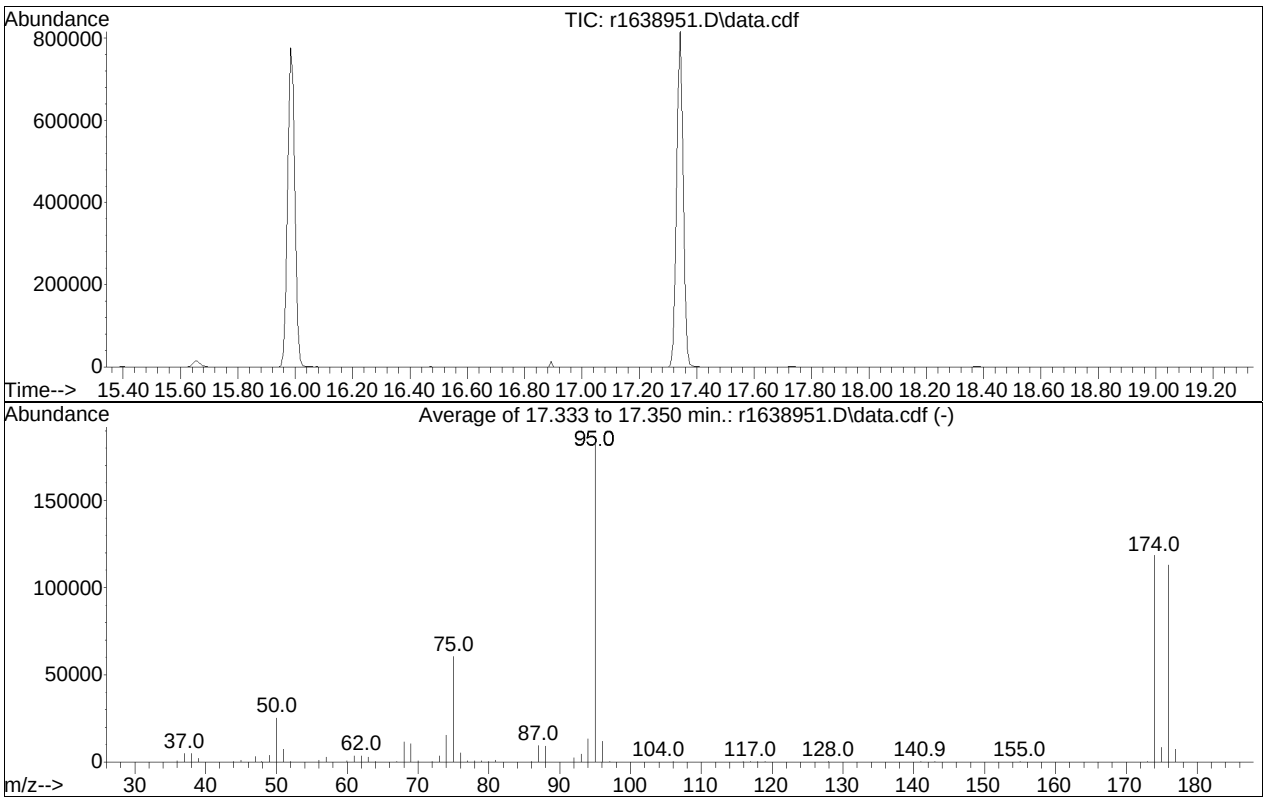
Manual Peak Response = 97474 M4

M4 = Poor automated baseline construction.

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638951.D
Acq On : 22 Aug 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : WG1818792-1
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 07:46:16 2023



AutoFind: Scans 2054, 2055, 2056; Background Corrected with Scan 2048

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.8	25254	PASS
75	95	30	66	33.1	60694	PASS
95	95	100	100	100.0	183205	PASS
96	95	5	9	6.5	11949	PASS
173	174	0.00	2	0.5	580	PASS
174	95	50	120	64.7	118520	PASS
175	174	4	9	7.0	8296	PASS
176	174	93	101	95.5	113189	PASS
177	176	5	9	6.5	7341	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638956.D
Acq On : 22 Aug 2023 2:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-4,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:27:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	200743	10.000	ppbV	0.00
Standard Area = 214255			Recovery = 93.69%			
43) 1,4-difluorobenzene	11.307	114	639226	10.000	ppbV	0.00
Standard Area = 667571			Recovery = 95.75%			
67) chlorobenzene-D5	15.992	54	78976	10.000	ppbV	0.00
Standard Area = 82563			Recovery = 95.66%			
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.952		0	N.D.		
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	5.164	31	265	0.050	ppbV #	68
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.690	43	701	0.066	ppbV #	86
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	5.957	45	905	0.059	ppbV #	89
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.702		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
35) vinyl acetate	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638956.D
Acq On : 22 Aug 2023 2:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-4,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:27:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	0.000		0	N.D.		
62) heptane	0.000		0	N.D.		
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	0.000		0	N.D.		
72) 2-hexanone	0.000		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
78) tetrachloroethene	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	0.000		0	N.D.		
83) m+p-xylene	0.000		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	0.000		0	N.D.		
96) 4-ethyl toluene	0.000		0	N.D.		
97) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	18.633		0	N.D.		
103) 1,4-dichlorobenzene	18.633		0	N.D.		
107) 1,2-dichlorobenzene	18.933		0	N.D.		
115) 1,2,4-trichlorobenzene	20.450		0	N.D.		
119) hexachlorobutadiene	20.875		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638956.D
Acq On : 22 Aug 2023 2:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-4,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:27:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

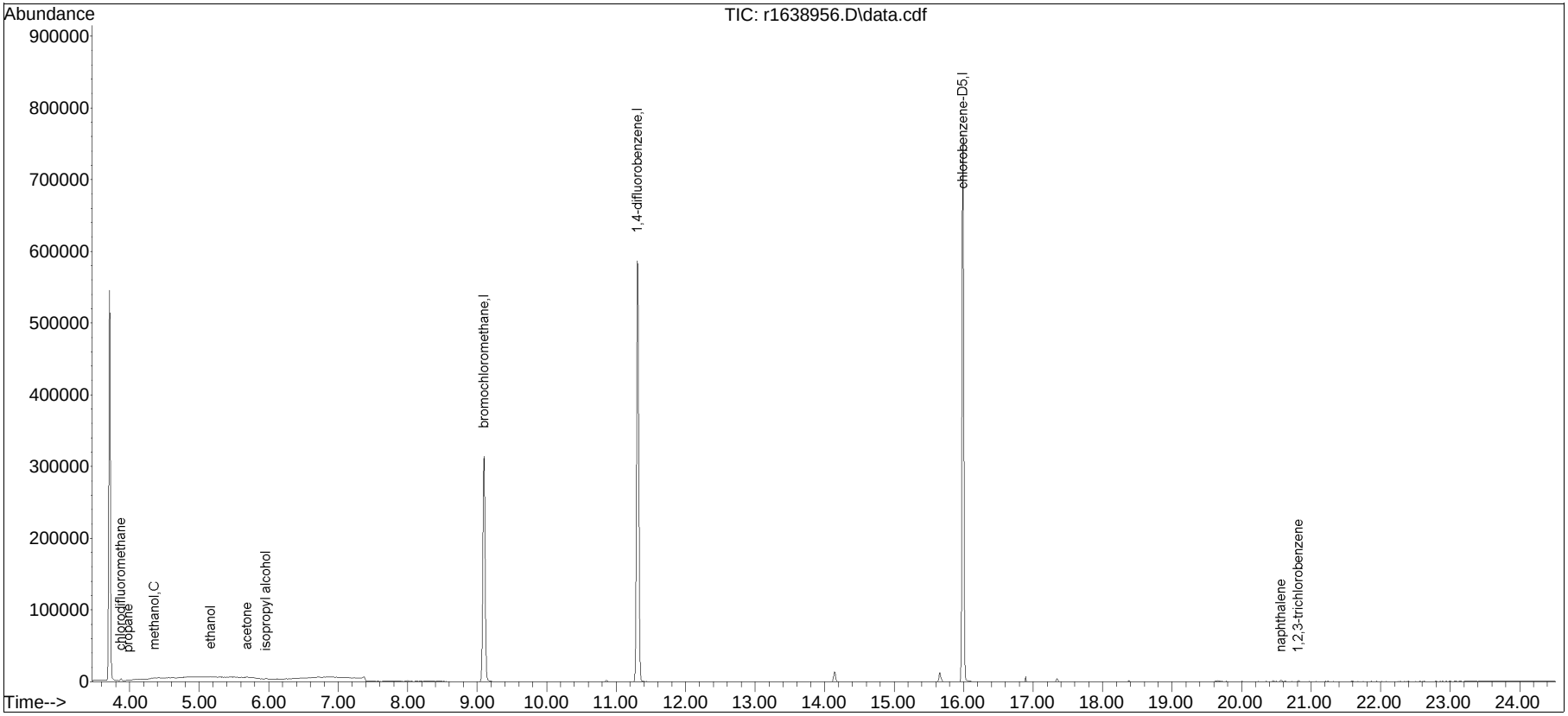
CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

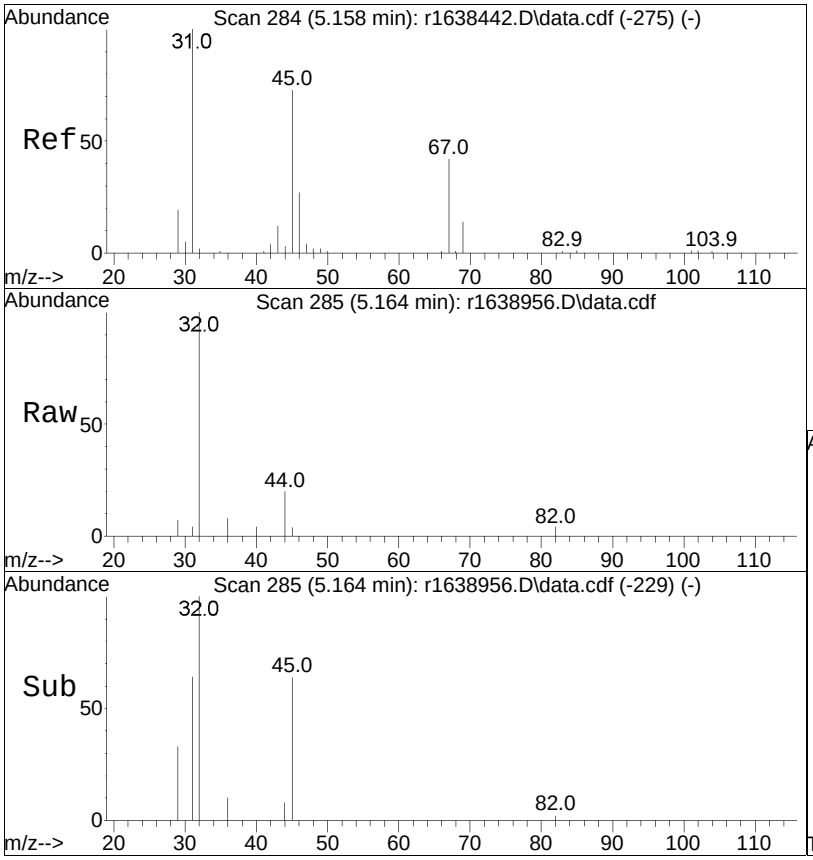
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed2T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638956.D
Acq On : 22 Aug 2023 2:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-4,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:27:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

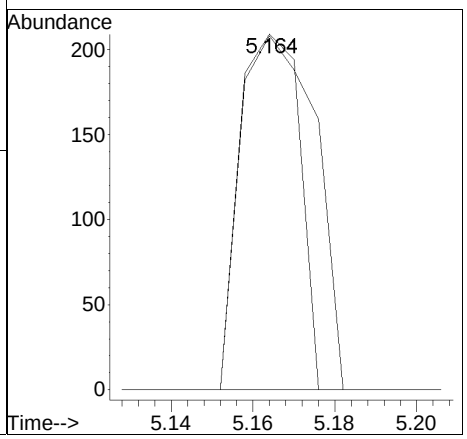


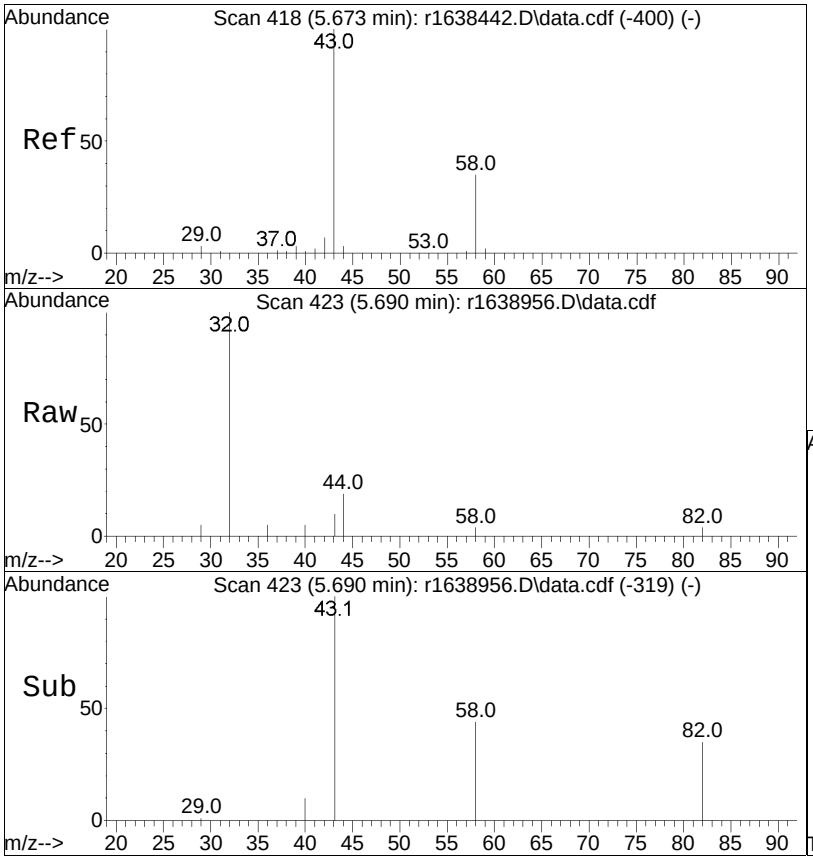


#15
ethanol
Concen: 0.05 ppbV
RT: 5.164 min Scan# 285
Delta R.T. 0.006 min
Lab File: r1638956.D
Acq: 22 Aug 2023 2:09 PM

Tgt Ion: 31 Resp: 265

Ion	Ratio	Lower	Upper
31	100		
45	100.5	58.6	87.8#

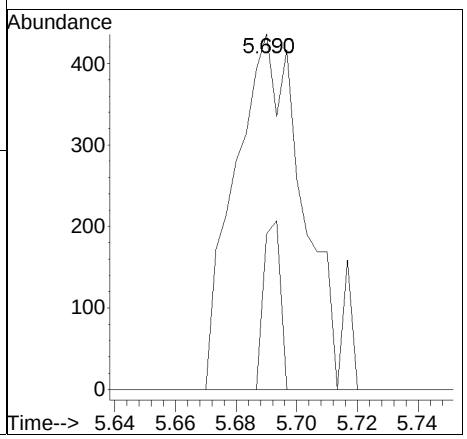


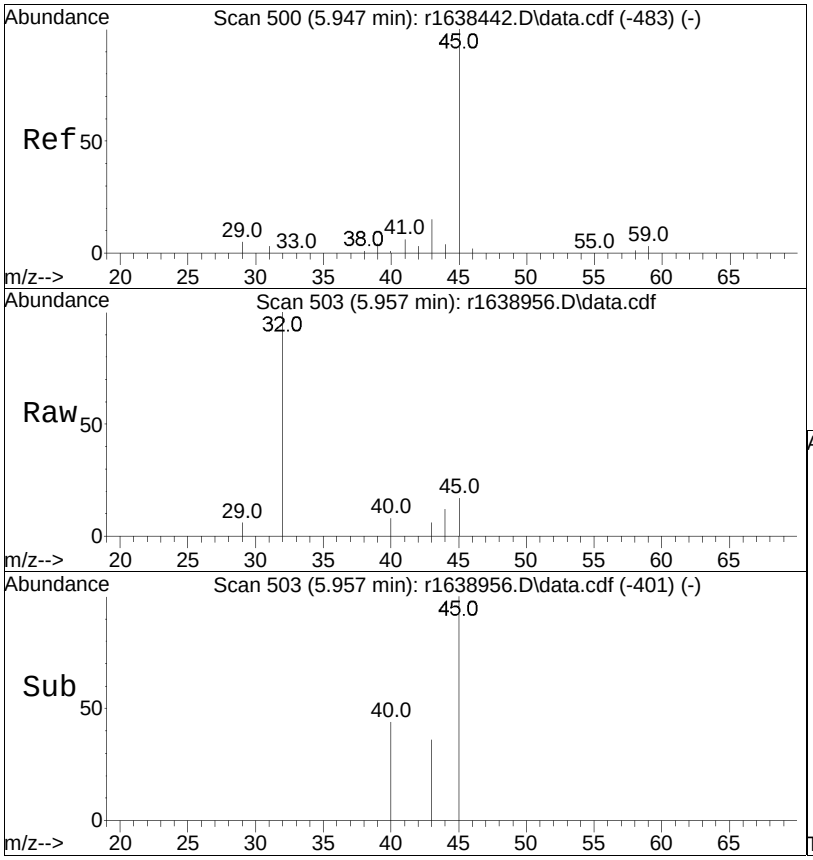


#19
acetone
Concen: 0.07 ppbV
RT: 5.690 min Scan# 423
Delta R.T. 0.017 min
Lab File: r1638956.D
Acq: 22 Aug 2023 2:09 PM

Tgt Ion: 43 Resp: 701

Ion	Ratio	Lower	Upper
43	100		
58	43.8	28.3	42.5#
57	0.0	0.6	1.0#

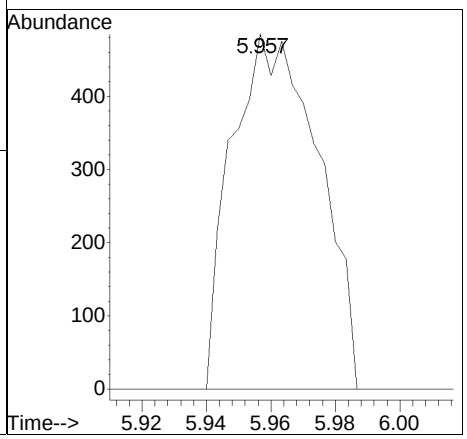




#22
isopropyl alcohol
Concen: 0.06 ppbV
RT: 5.957 min Scan# 503
Delta R.T. 0.010 min
Lab File: r1638956.D
Acq: 22 Aug 2023 2:09 PM

Tgt Ion: 45 Resp: 905

Ion	Ratio	Lower	Upper
45	100		
59	0.0	2.8	4.2#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TFS16_230725.M
Data File	: r1638956.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:2: 9	Instrument	:
Sample	: WG1818792-4,3,250,250	Quant Date	: 8/23/2023 6:27 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	98	0.00
2		chlorodifluoromethane	10.000	8.773	12.3	88	0.00
3		propylene	10.000	9.798	2.0	94	0.00
4		propane	10.000	8.659	13.4	88	0.00
5		dichlorodifluoromethane	10.000	9.137	8.6	94	0.00
6	C	chloromethane	10.000	8.006	19.9	82	0.00
7		Freon-114	10.000	10.156	-1.6	101	0.00
8	C	methanol	50.000	47.252	5.5	92	0.00
9	C	vinyl chloride	10.000	10.310	-3.1	104	0.00
10	C	1,3-butadiene	10.000	9.404	6.0	92	0.00
11		butane	10.000	8.630	13.7	86	0.00
13	C	bromomethane	10.000	9.922	0.8	98	0.00
14	C	chloroethane	10.000	10.012	-0.1	100	0.00
15		ethanol	50.000	48.102	3.8	89	0.00
16		dichlorofluoromethane	10.000	8.911	10.9	86	0.00
17	C	vinyl bromide	10.000	7.970	20.3	76	0.00
18	C	acrolein	10.000	8.880	11.2	88	0.00
19		acetone	50.000	45.035	9.9	88	0.00
20	C	acetonitrile	10.000	9.479	5.2	93	0.00
21		trichlorofluoromethane	10.000	9.914	0.9	96	0.00
22		isopropyl alcohol	25.000	20.056	19.8	78	0.00
23	C	acrylonitrile	10.000	10.639	-6.4	104	0.00
24		pentane	10.000	7.572	24.3	74	0.00
25		ethyl ether	10.000	9.912	0.9	97	0.00
26	C	1,1-dichloroethene	10.000	9.347	6.5	89	0.00
27		tertiary butyl alcohol	10.000	9.192	8.1	85	-0.01
28	C	methylene chloride	10.000	9.823	1.8	98	0.00
29	C	3-chloropropene	10.000	8.766	12.3	82	0.00
30	C	carbon disulfide	10.000	9.651	3.5	89	0.00
31		Freon 113	10.000	9.272	7.3	91	0.00
32		trans-1,2-dichloroethene	10.000	8.946	10.5	83	0.00
33	C	1,1-dichloroethane	10.000	8.932	10.7	85	0.00
34	C	MTBE	10.000	8.093	19.1	77	0.00
35	C	vinyl acetate	10.000	7.679	23.2	70	0.00
36	C	2-butanone	10.000	7.986	20.1	75	0.00
37		cis-1,2-dichloroethene	10.000	9.552	4.5	91	0.00
38		Ethyl Acetate	10.000	10.639	-6.4	94	0.00
39	C	chloroform	10.000	9.664	3.4	94	0.00
40		Tetrahydrofuran	10.000	7.817	21.8	75	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	10.000	8.597	14.0	82	0.00
42	C	1,2-dichloroethane	10.000	7.862	21.4	78	0.00
43	I	1,4-difluorobenzene	10.000	10.000	0.0	97	0.00
44	C	hexane	10.000	10.495	-4.9	99	0.00
45		diisopropyl ether	10.000	9.189	8.1	87	0.00
46		tert-butyl ethyl ether	10.000	8.787	12.1	82	0.00
48	C	1,1,1-trichloroethane	10.000	8.043	19.6	76	0.00
49		1,1-dichloropropene	10.000	9.586	4.1	94	0.00
50	C	benzene	10.000	9.938	0.6	99	0.00
52	C	carbon tetrachloride	10.000	9.161	8.4	86	0.00
53		cyclohexane	10.000	10.789	-7.9	102	0.00
54		tert-amyl methyl ether	10.000	8.577	14.2	83	0.00
55		dibromomethane	10.000	9.434	5.7	91	0.00
56	C	1,2-dichloropropane	10.000	9.308	6.9	90	0.00
57		bromodichloromethane	10.000	10.295	-2.9	93	0.00
58	C	1,4-dioxane	10.000	9.660	3.4	89	0.00
59	C	trichloroethene	10.000	9.575	4.3	92	0.00
60	C	2,2,4-trimethylpentane	10.000	10.573	-5.7	100	0.00
61		methyl methacrylate	10.000	9.433	5.7	87	0.00
62		heptane	10.000	8.259	17.4	79	0.00
63	C	cis-1,3-dichloropropene	10.000	9.843	1.6	94	0.00
64	C	4-methyl-2-pentanone	10.000	8.492	15.1	78	0.00
65		trans-1,3-dichloropropene	10.000	9.325	6.8	87	0.00
66	C	1,1,2-trichloroethane	10.000	9.595	4.0	94	0.00
67	I	chlorobenzene-D5	10.000	10.000	0.0	101	0.00
68	C	toluene	10.000	8.727	12.7	88	0.00
71		1,3-dichloropropane	10.000	9.026	9.7	94	0.00
72		2-hexanone	10.000	8.024	19.8	75	0.00
74		dibromochloromethane	10.000	10.112	-1.1	94	0.00
75	C	1,2-dibromoethane	10.000	9.706	2.9	97	0.00
76		butyl acetate	10.000	9.373	6.3	92	0.00
77		octane	10.000	9.204	8.0	92	0.00
78	C	tetrachloroethene	10.000	8.978	10.2	93	0.00
79		1,1,1,2-tetrachloroethane	10.000	9.240	7.6	90	0.00
80	C	chlorobenzene	10.000	9.635	3.7	99	0.00
81	C	ethylbenzene	10.000	8.895	11.1	88	0.00
83	C	m+p-xylene	20.000	18.065	9.7	89	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84	C	bromoform	10.000	10.586	-5.9	98	0.00
85	C	styrene	10.000	9.757	2.4	99	0.00
86	C	1,1,2,2-tetrachloroethane	10.000	10.529	-5.3	105	0.00
87	C	o-xylene	10.000	9.338	6.6	91	0.00
88		1,2,3-trichloropropane	10.000	9.671	3.3	100	0.00
89		nonane	10.000	8.230	17.7	81	0.00
91	C	isopropylbenzene	10.000	9.571	4.3	97	0.00
92		bromobenzene	10.000	9.705	2.9	101	0.00
93		2-chlorotoluene	10.000	9.253	7.5	92	0.00
94		n-propylbenzene	10.000	9.211	7.9	92	0.00
95		4-chlorotoluene	10.000	9.278	7.2	94	0.00
96		4-ethyl toluene	10.000	9.270	7.3	92	0.00
97		1,3,5-trimethylbenzene	10.000	9.430	5.7	96	0.00
98		tert-butylbenzene	10.000	9.166	8.3	90	0.00
99		1,2,4-trimethylbenzene	10.000	9.633	3.7	95	0.00
100		decane	10.000	9.733	2.7	96	0.00
101	C	Benzyl Chloride	10.000	10.038	-0.4	87	0.00
102		1,3-dichlorobenzene	10.000	9.901	1.0	100	0.00
103	C	1,4-dichlorobenzene	10.000	9.374	6.3	95	0.00
104		sec-butylbenzene	10.000	9.388	6.1	95	0.00
106		p-isopropyltoluene	10.000	8.603	14.0	84	0.00
107		1,2-dichlorobenzene	10.000	9.459	5.4	97	0.00
108		n-butylbenzene	10.000	9.366	6.3	91	0.00
111	C	1,2-dibromo-3-chloropropane	10.000	9.972	0.3	96	0.00
112		undecane	10.000	10.453	-4.5	109	0.00
114		dodecane	10.000	10.179	-1.8	99	0.05
115	C	1,2,4-trichlorobenzene	10.000	8.778	12.2	84	0.05
116		naphthalene	10.000	9.230	7.7	88	0.05
117		1,2,3-trichlorobenzene	10.000	9.329	6.7	92	0.05
119	C	hexachlorobutadiene	10.000	8.219	17.8	82	0.06

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	206816	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		96.53%	
43) 1,4-difluorobenzene	11.307	114	659497	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		98.79%	
67) chlorobenzene-D5	15.983	54	81111	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		98.24%	
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.952	41	96226M4	9.798	ppbV	
5) dichlorodifluoromethane	4.024	85	140067	9.137	ppbV	100
6) chloromethane	4.192	50	69255	8.006	ppbV	98
7) Freon-114	4.294	85	184810	10.156	ppbV	96
9) vinyl chloride	4.420	62	89193	10.310	ppbV	98
10) 1,3-butadiene	4.564	54	62851	9.404	ppbV	87
13) bromomethane	4.846	94	75129	9.922	ppbV	98
14) chloroethane	5.032	64	42493	10.012	ppbV	97
15) ethanol	5.158	31	262376	48.102	ppbV	91
17) vinyl bromide	5.410	106	61838	7.970	ppbV	99
19) acetone	5.667	43	495649	45.035	ppbV	94
21) trichlorofluoromethane	5.867	101	107139	9.914	ppbV	95
22) isopropyl alcohol	5.940	45	319209	20.056	ppbV #	97
26) 1,1-dichloroethene	6.564	61	131162	9.347	ppbV	98
27) tertiary butyl alcohol	6.594	59	141815	9.192	ppbV	97
28) methylene chloride	6.702	49	116038	9.823	ppbV	95
29) 3-chloropropene	6.834	41	145964	8.766	ppbV #	95
30) carbon disulfide	7.008	76	282709	9.651	ppbV #	94
31) Freon 113	7.002	101	179289	9.272	ppbV	97
32) trans-1,2-dichloroethene	7.750	61	133779	8.946	ppbV	99
33) 1,1-dichloroethane	7.967	63	171963	8.932	ppbV	98
34) MTBE	8.025	73	187565	8.093	ppbV	93
35) vinyl acetate	8.150	43	191953	7.679	ppbV #	95
36) 2-butanone	8.400	43	208446	7.986	ppbV #	92
37) cis-1,2-dichloroethene	8.917	61	132878	9.552	ppbV	100
38) Ethyl Acetate	9.167	61	40057	10.639	ppbV	72
39) chloroform	9.250	83	160941	9.664	ppbV	99
40) Tetrahydrofuran	9.675	42	129366	7.817	ppbV	90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42)	1,2-dichloroethane	10.083	62	78077	7.862	ppbV	#	92
44)	hexane	9.167	57	182083	10.495	ppbV	#	69
48)	1,1,1-trichloroethane	10.367	97	110102	8.043	ppbV		90
50)	benzene	10.893	78	354588	9.938	ppbV		99
52)	carbon tetrachloride	11.067	117	108443	9.161	ppbV		100
53)	cyclohexane	11.207	56	199124	10.789	ppbV	#	89
56)	1,2-dichloropropane	11.833	63	130719	9.308	ppbV		98
57)	bromodichloromethane	12.060	83	164588	10.295	ppbV		98
58)	1,4-dioxane	12.087	88	78822	9.660	ppbV		95
59)	trichloroethene	12.107	130	150088	9.575	ppbV		97
60)	2,2,4-trimethylpentane	12.153	57	599731	10.573	ppbV	#	89
62)	heptane	12.467	43	220938	8.259	ppbV	#	84
63)	cis-1,3-dichloropropene	13.117	75	171160	9.843	ppbV		94
64)	4-methyl-2-pentanone	13.142	43	262718	8.492	ppbV	#	87
65)	trans-1,3-dichloropropene	13.733	75	125877	9.325	ppbV		94
66)	1,1,2-trichloroethane	13.933	97	140281	9.595	ppbV		91
68)	toluene	14.250	91	398524	8.727	ppbV		100
72)	2-hexanone	14.517	43	238218	8.024	ppbV	#	84
74)	dibromochloromethane	14.692	129	182615	10.112	ppbV		99
75)	1,2-dibromoethane	14.942	107	208042	9.706	ppbV		97
78)	tetrachloroethene	15.400	166	170164	8.978	ppbV		98
80)	chlorobenzene	16.025	112	346410	9.635	ppbV		99
81)	ethylbenzene	16.367	91	510242	8.895	ppbV		93
83)	m+p-xylene	16.525	91	813969	18.065	ppbV		92
84)	bromoform	16.592	173	158611	10.586	ppbV		93
85)	styrene	16.850	104	365922	9.757	ppbV		99
86)	1,1,2,2-tetrachloroethane	16.942	83	356555	10.529	ppbV		99
87)	o-xylene	16.942	91	420171	9.338	ppbV		93
96)	4-ethyl toluene	18.017	105	575121	9.270	ppbV		99
97)	1,3,5-trimethylbenzene	18.083	105	504008	9.430	ppbV		99
99)	1,2,4-trimethylbenzene	18.433	105	501713	9.633	ppbV		96
101)	Benzyl Chloride	18.550	91	272079	10.038	ppbV		99
102)	1,3-dichlorobenzene	18.567	146	394463	9.901	ppbV		98
103)	1,4-dichlorobenzene	18.625	146	374694	9.374	ppbV		98
107)	1,2-dichlorobenzene	18.917	146	363726	9.459	ppbV		97
115)	1,2,4-trichlorobenzene	20.492	180	223672	8.778	ppbV		98
119)	hexachlorobutadiene	20.933	225	160634	8.219	ppbV		98

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

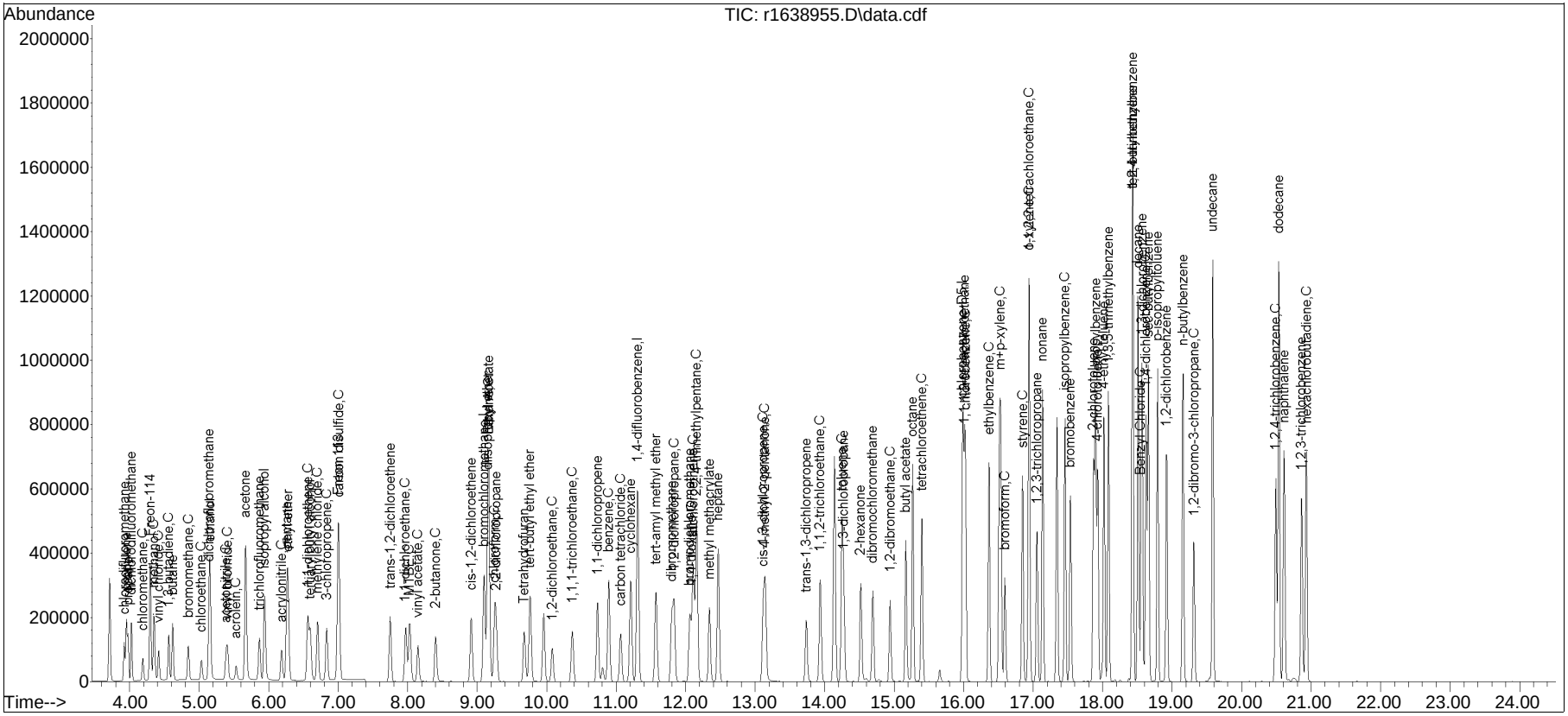
CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : Default-LCS-AP2 - All compounds listed

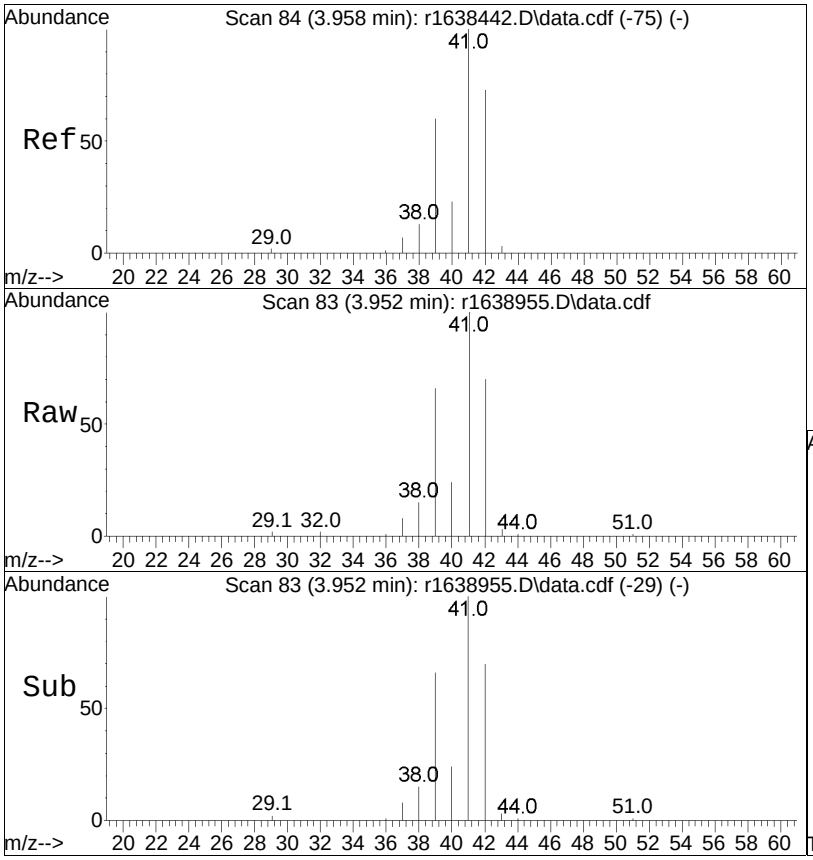
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed2T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638955.D
Acq On : 22 Aug 2023 12:37 PM
Operator : AIRLAB16:APR
Sample : WG1818792-3,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:20:12 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

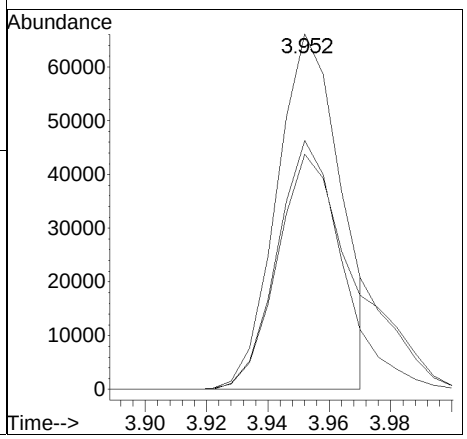


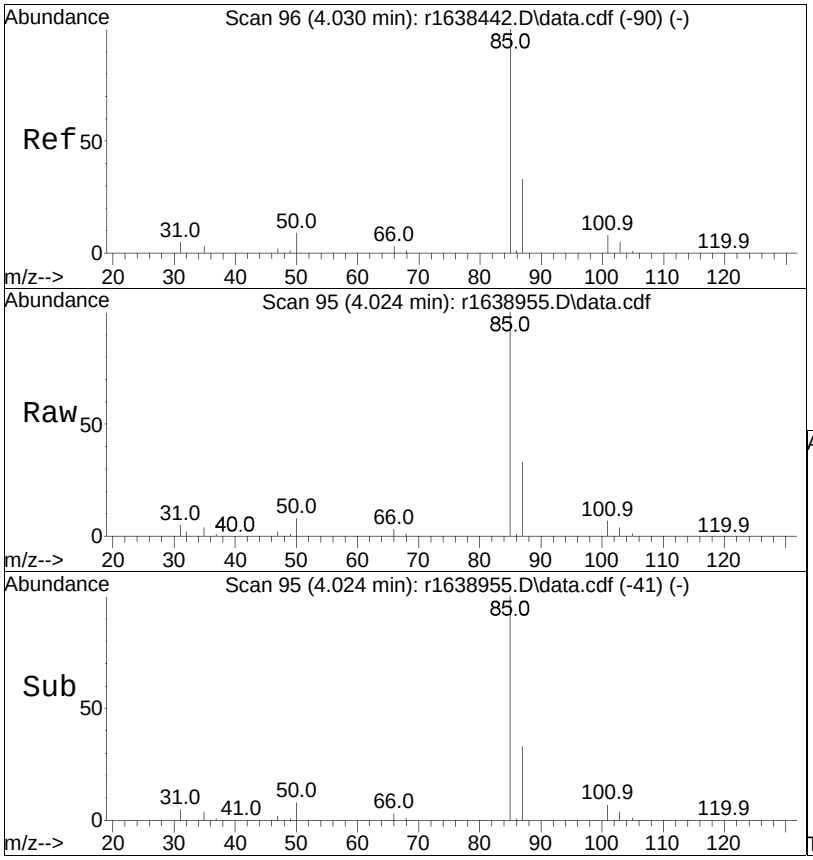


#3
propylene
Concen: 9.80 ppbV m
RT: 3.952 min Scan# 83
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 41 Resp: 96226

Ion	Ratio	Lower	Upper
41	100		
42	70.0	58.2	87.2
39	66.2	48.0	72.0

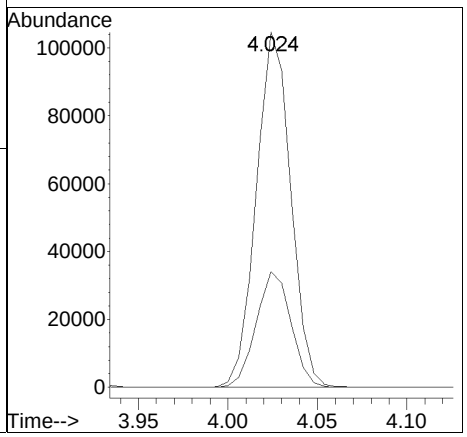


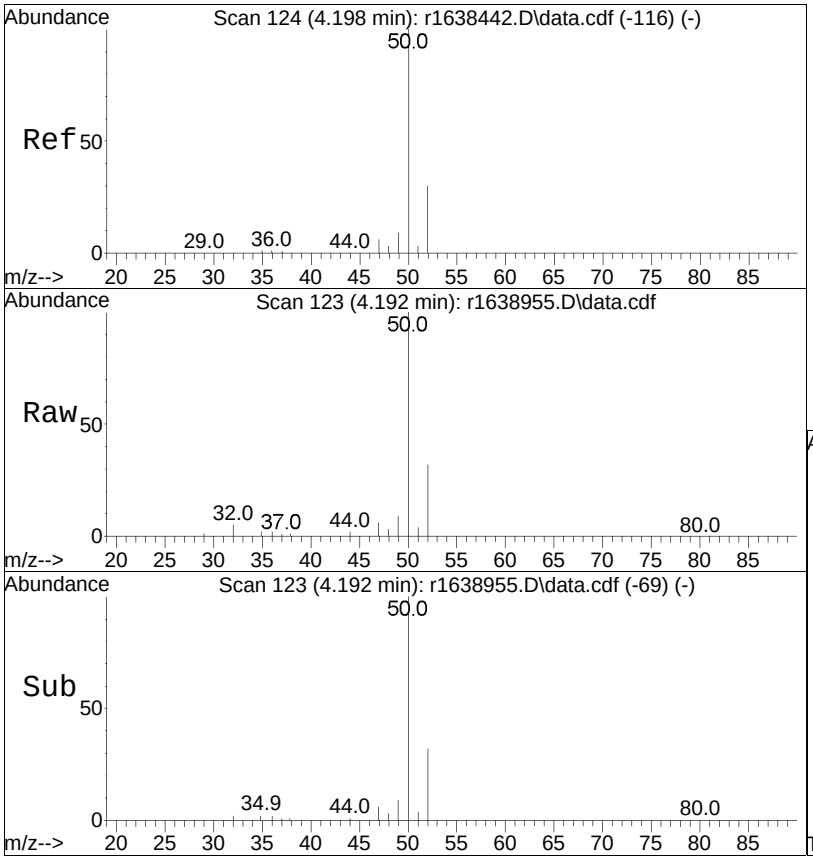


#5
dichlorodifluoromethane
Concen: 9.14 ppbV
RT: 4.024 min Scan# 95
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 85 Resp: 140067

Ion	Ratio	Lower	Upper
85	100		
87	32.6	26.2	39.2

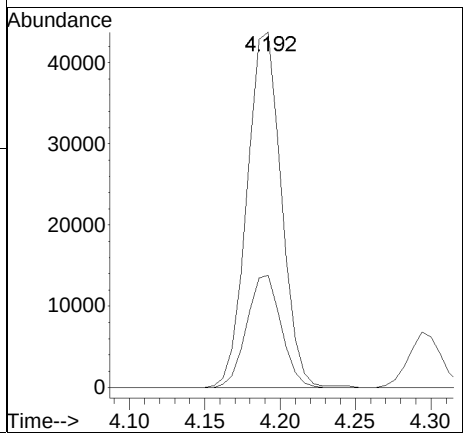


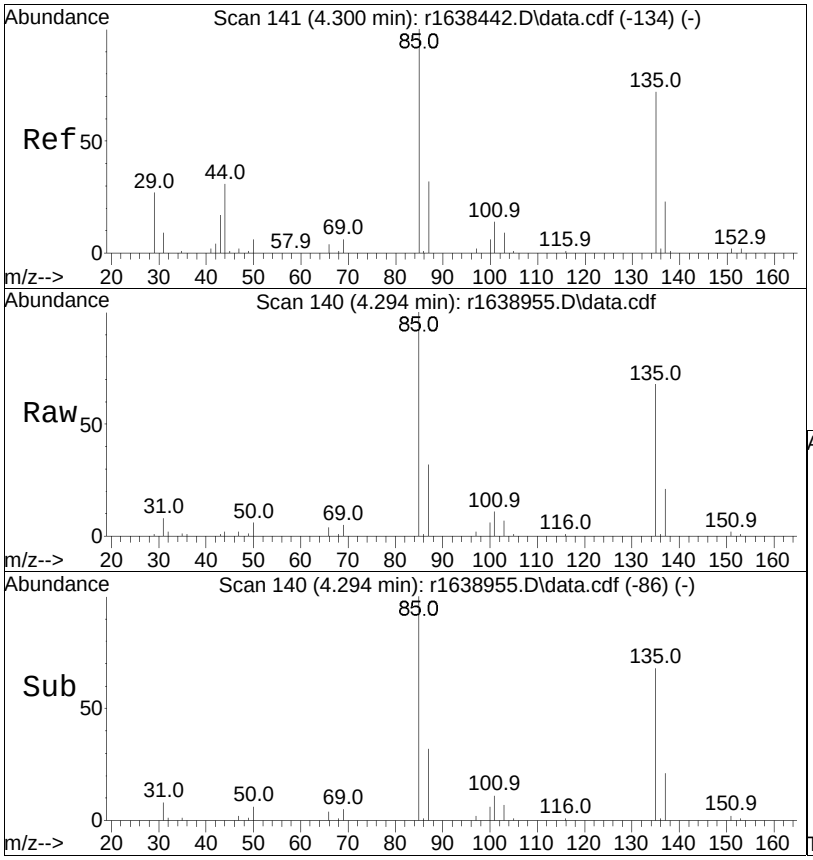


#6
chloromethane
Concen: 8.01 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 50 Resp: 69255

Ion	Ratio	Lower	Upper
50	100		
52	31.6	24.3	36.5

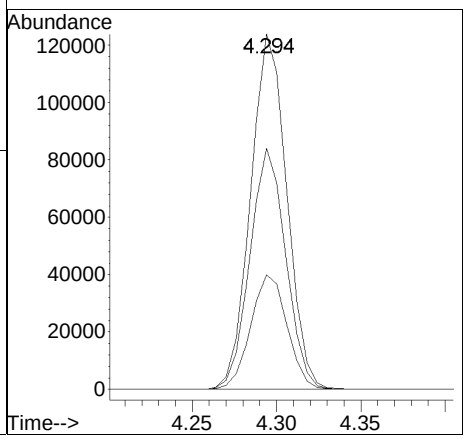


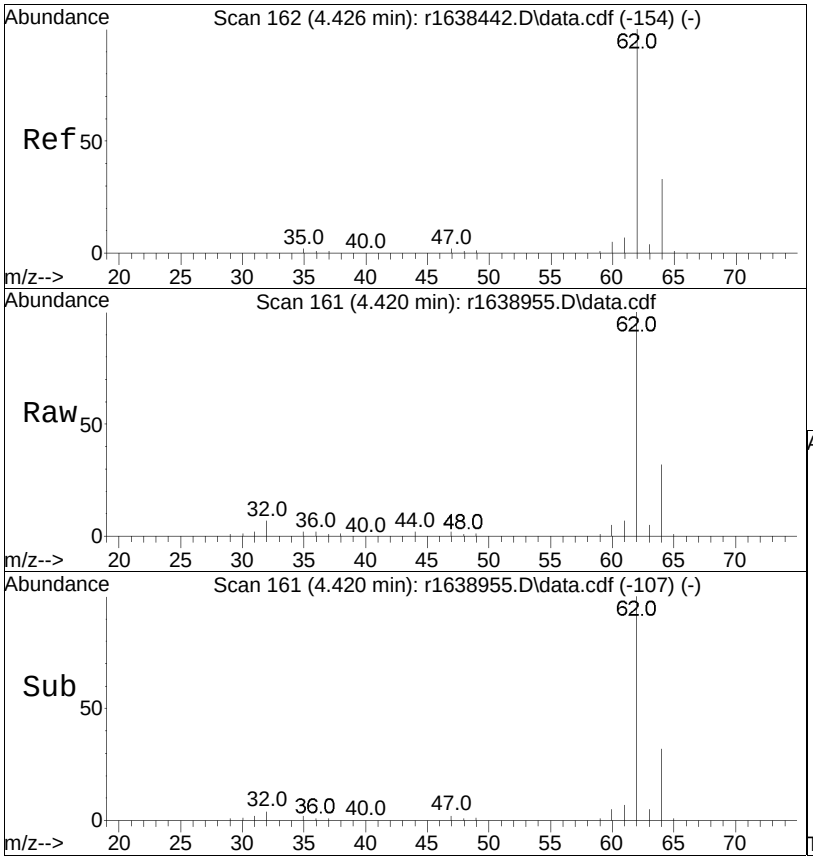


#7
Freon-114
Concen: 10.16 ppbV
RT: 4.294 min Scan# 140
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 85 Resp: 184810

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.5	38.3
135	67.9	57.8	86.8

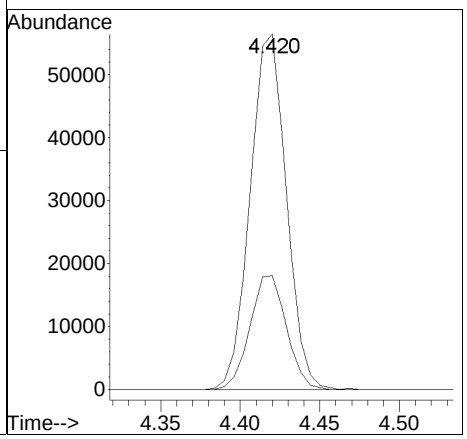


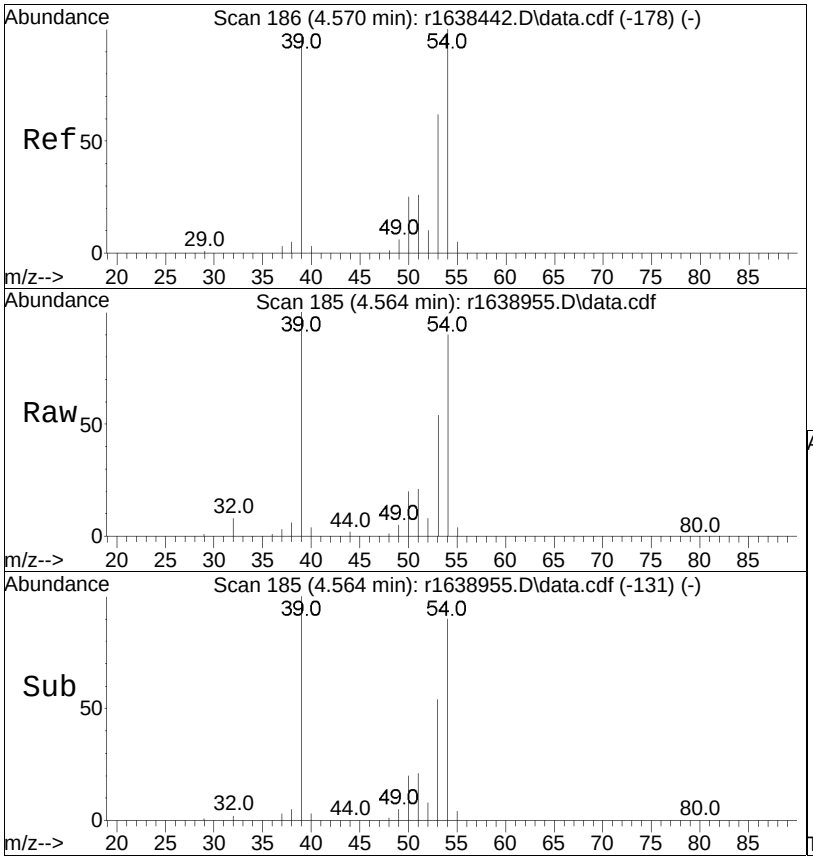


#9
vinyl chloride
Concen: 10.31 ppbV
RT: 4.420 min Scan# 161
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 62 Resp: 89193

Ion	Ratio	Lower	Upper
62	100		
64	32.0	26.6	40.0

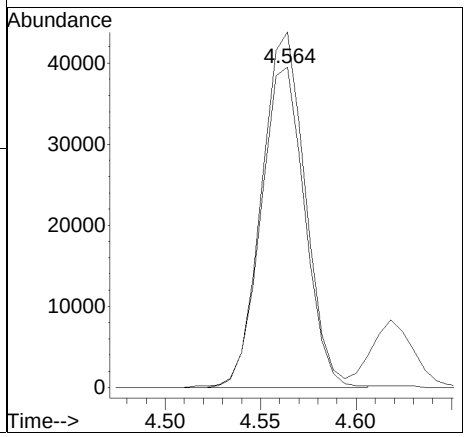


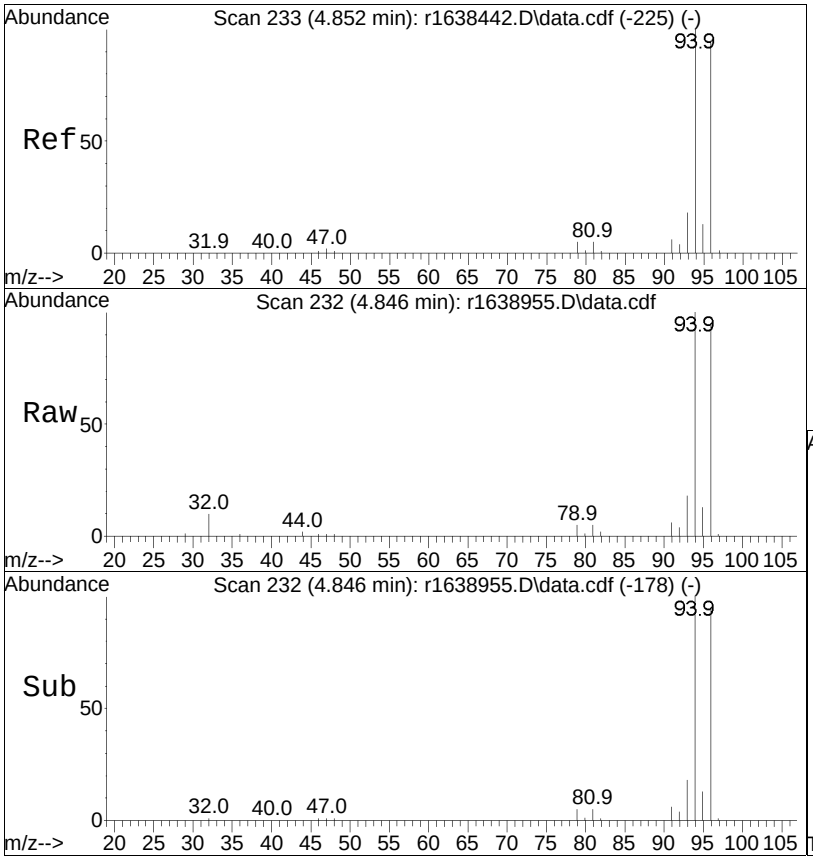


#10
1,3-butadiene
Concen: 9.40 ppbV
RT: 4.564 min Scan# 185
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 54 Resp: 62851

Ion	Ratio	Lower	Upper
54	100		
39	111.0	78.6	117.8

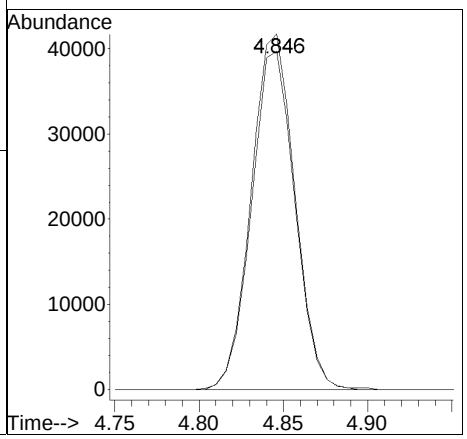


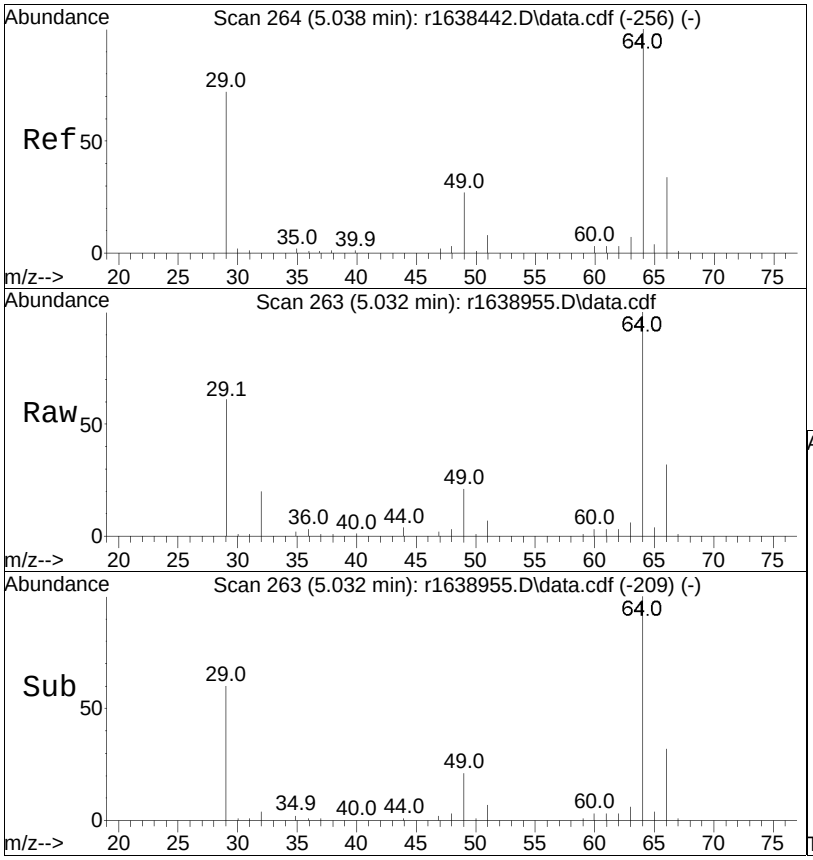


#13
bromomethane
Concen: 9.92 ppbV
RT: 4.846 min Scan# 232
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 94 Resp: 75129

Ion	Ratio	Lower	Upper
94	100		
96	95.2	75.0	112.4

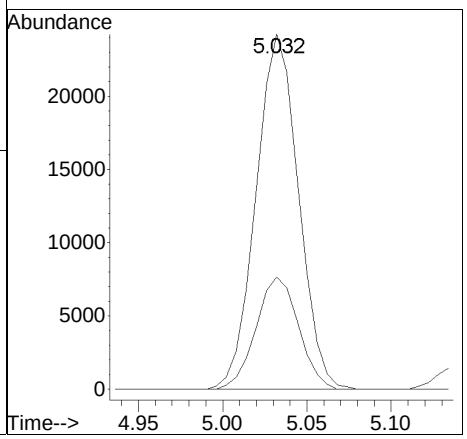


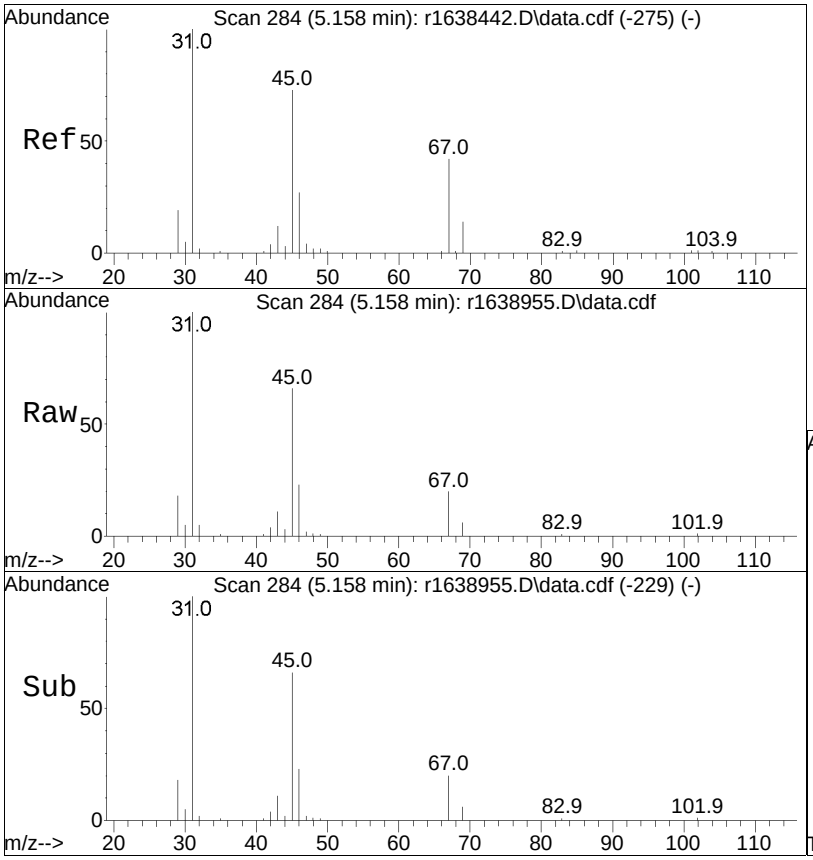


#14
chloroethane
Concen: 10.01 ppbV
RT: 5.032 min Scan# 263
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 64 Resp: 42493

Ion	Ratio	Lower	Upper
64	100		
66	31.6	26.9	40.3

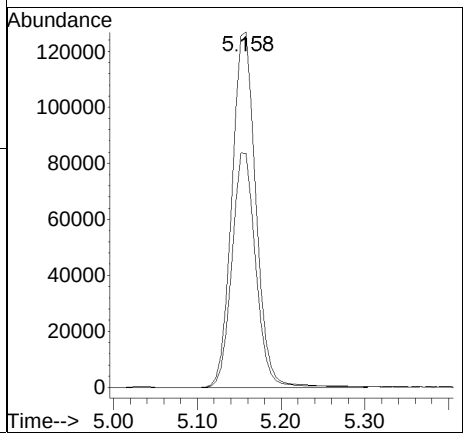


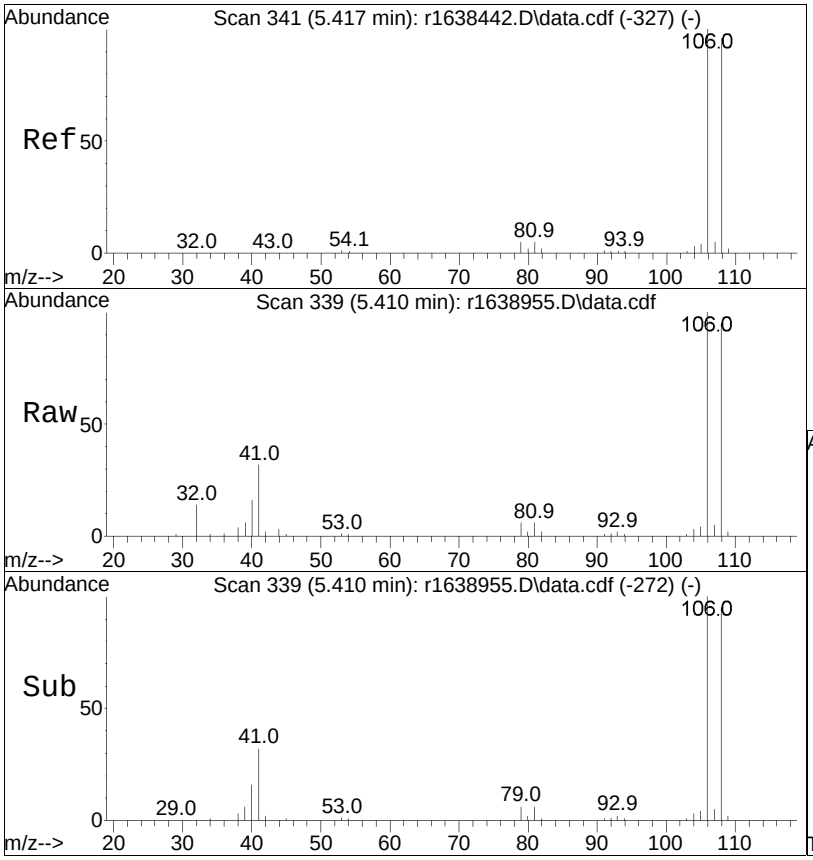


#15
ethanol
Concen: 48.10 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 31 Resp: 262376

Ion	Ratio	Lower	Upper
31	100		
45	65.8	58.6	87.8

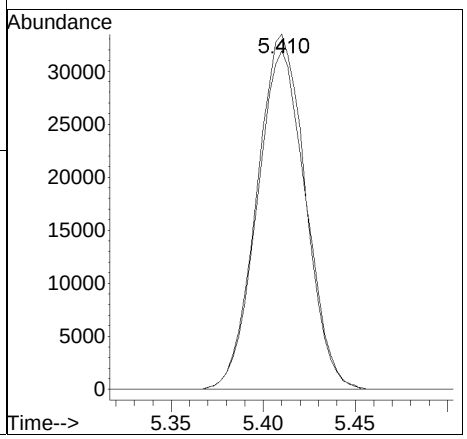


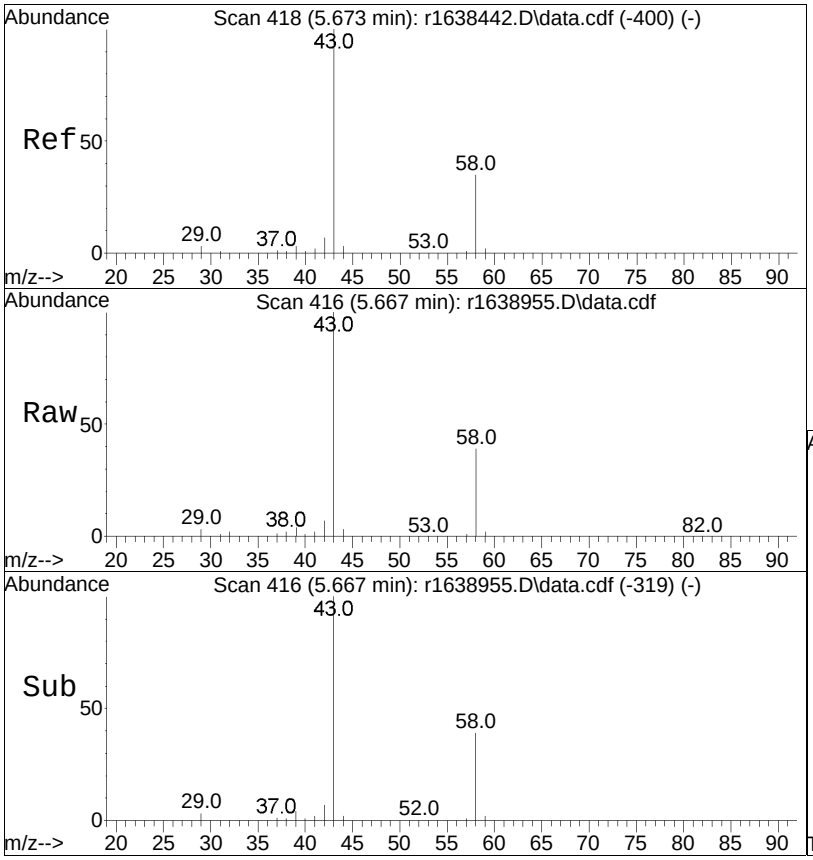


#17
vinyl bromide
Concen: 7.97 ppbV
RT: 5.410 min Scan# 339
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:106 Resp: 61838

Ion	Ratio	Lower	Upper
106	100		
108	95.3	77.2	115.8

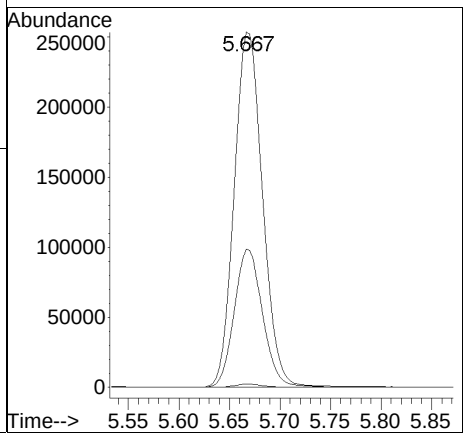


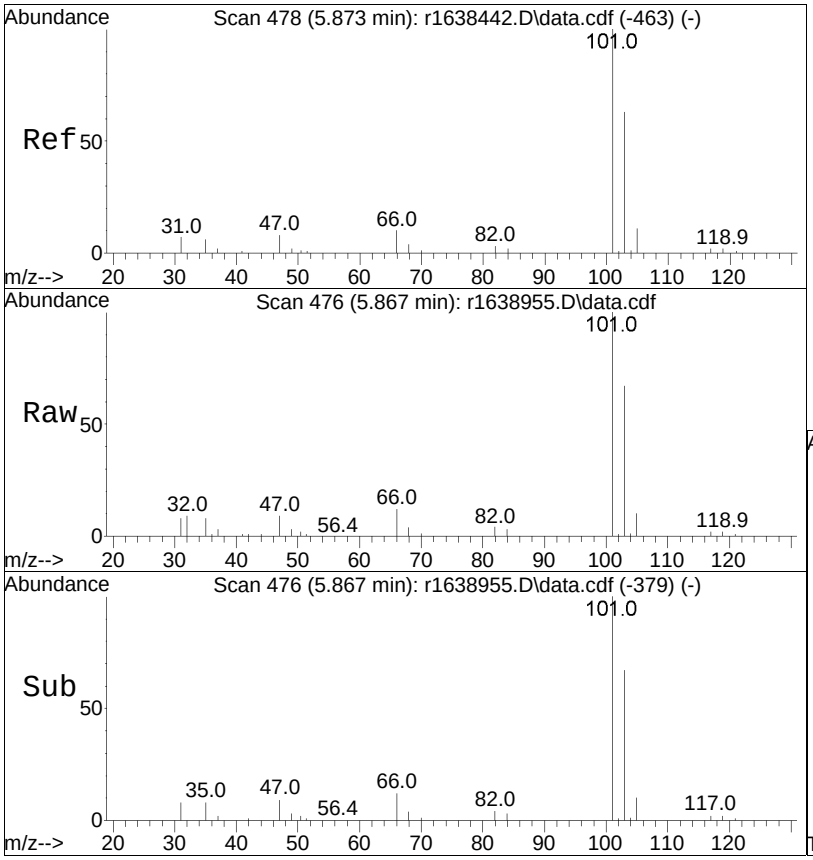


#19
acetone
Concen: 45.03 ppbV
RT: 5.667 min Scan# 416
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 495649

Ion	Ratio	Lower	Upper
43	100		
58	38.9	28.3	42.5
57	0.9	0.6	1.0

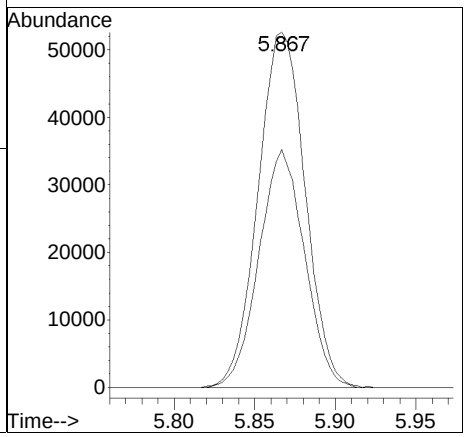


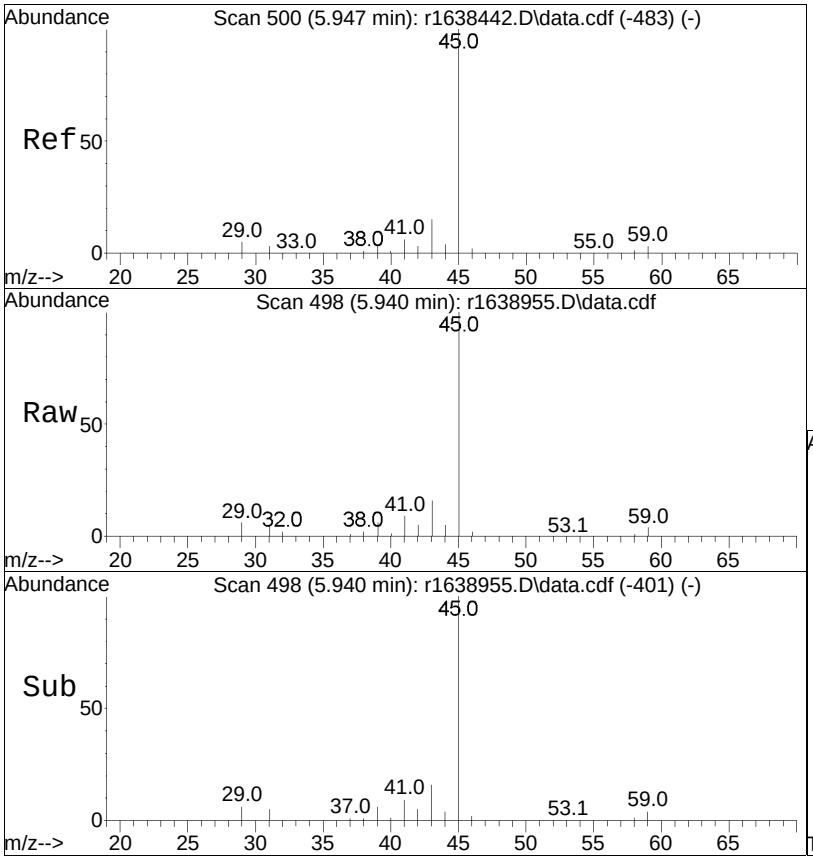


#21
trichlorofluoromethane
Concen: 9.91 ppbV
RT: 5.867 min Scan# 476
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:101 Resp: 107139

Ion	Ratio	Lower	Upper
101	100		
103	66.9	50.6	76.0

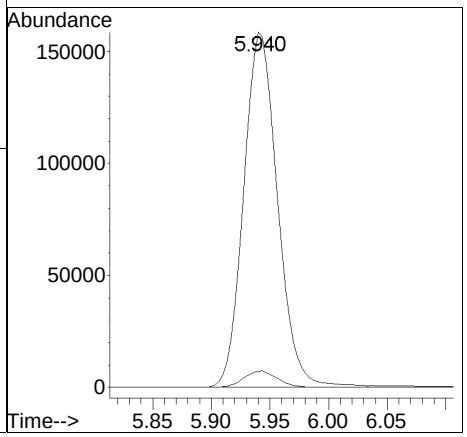


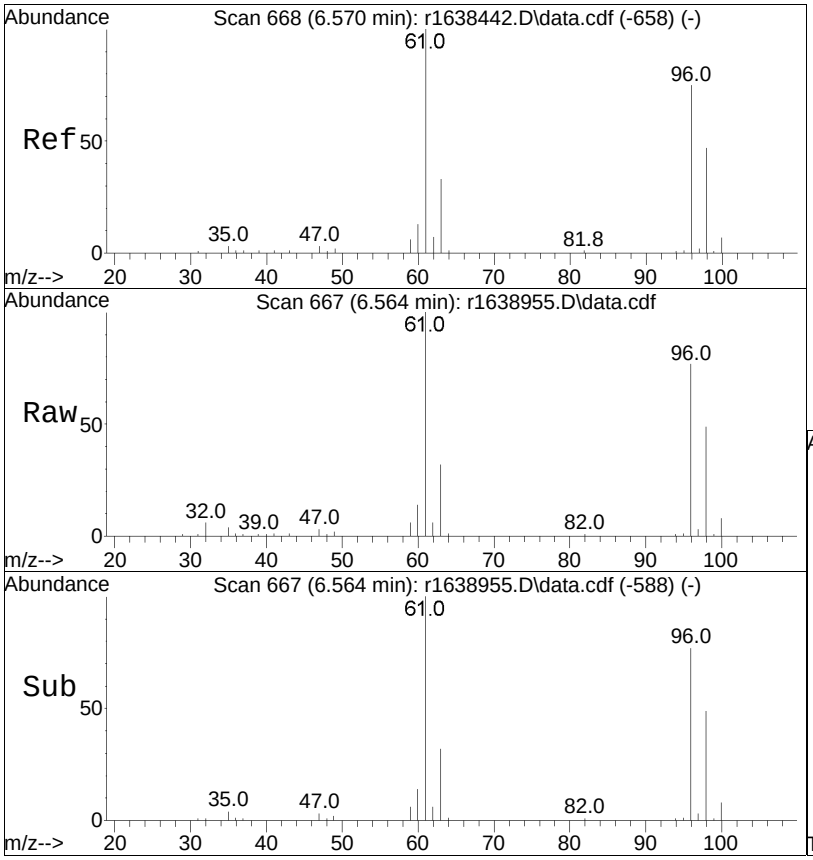


#22
isopropyl alcohol
Concen: 20.06 ppbV
RT: 5.940 min Scan# 498
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 45 Resp: 319209

Ion	Ratio	Lower	Upper
45	100		
59	4.5	2.8	4.2#

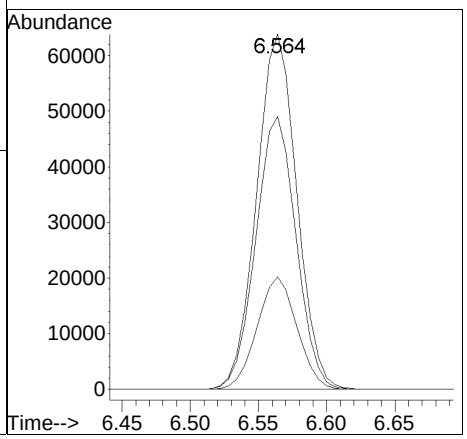


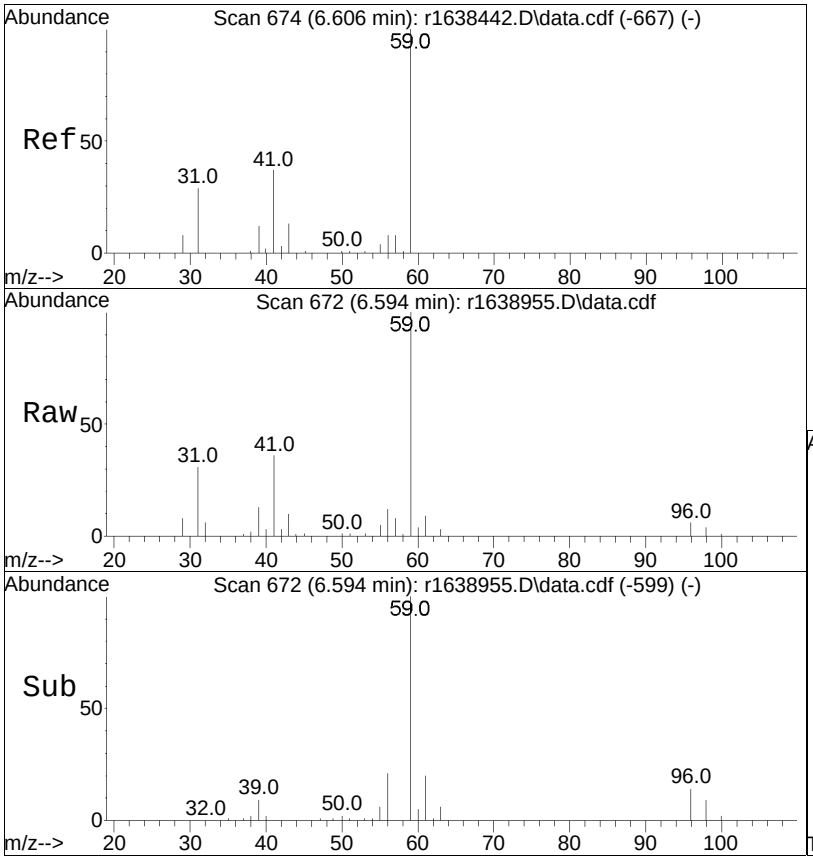


#26
1,1-dichloroethene
Concen: 9.35 ppbV
RT: 6.564 min Scan# 667
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 61 Resp: 131162

Ion	Ratio	Lower	Upper
61	100		
96	76.8	59.8	89.8
63	31.7	26.4	39.6

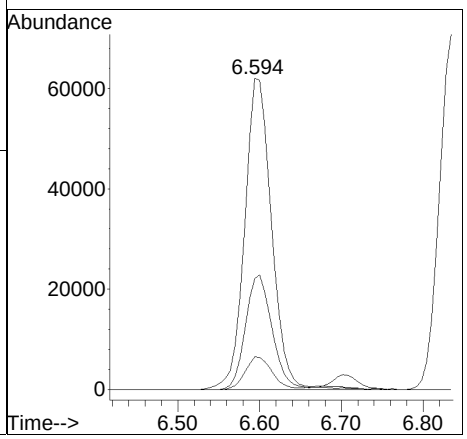


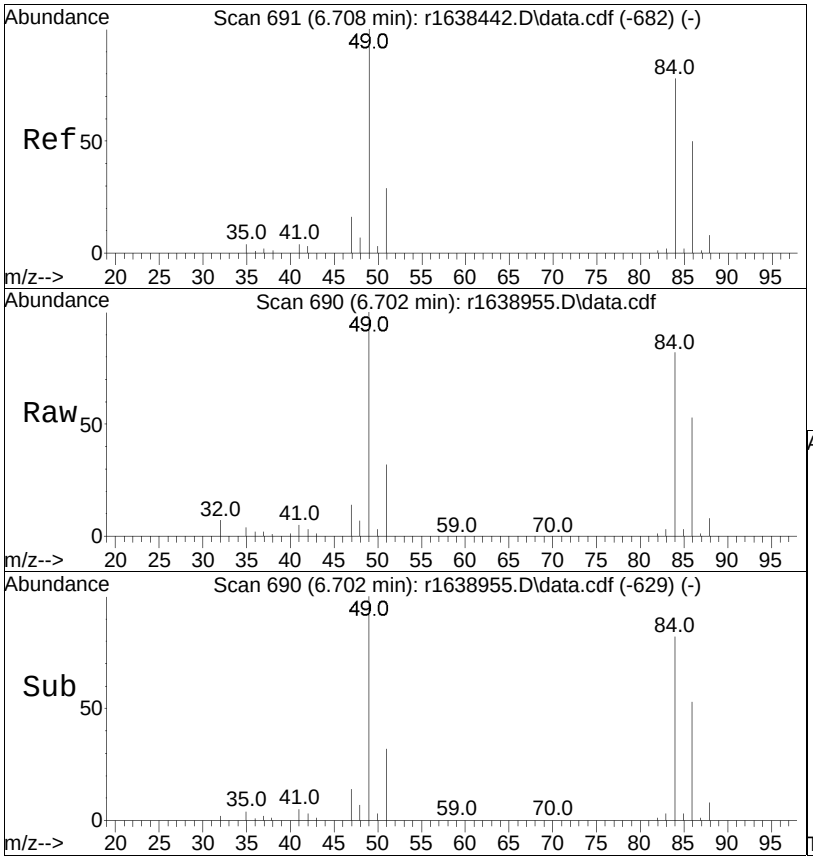


#27
tertiary butyl alcohol
Concen: 9.19 ppbV
RT: 6.594 min Scan# 672
Delta R.T. -0.012 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 59 Resp: 141815

Ion	Ratio	Lower	Upper
59	100		
41	35.6	29.3	43.9
43	10.5	10.1	15.1

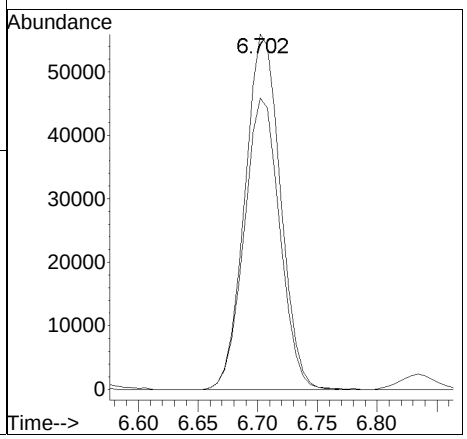


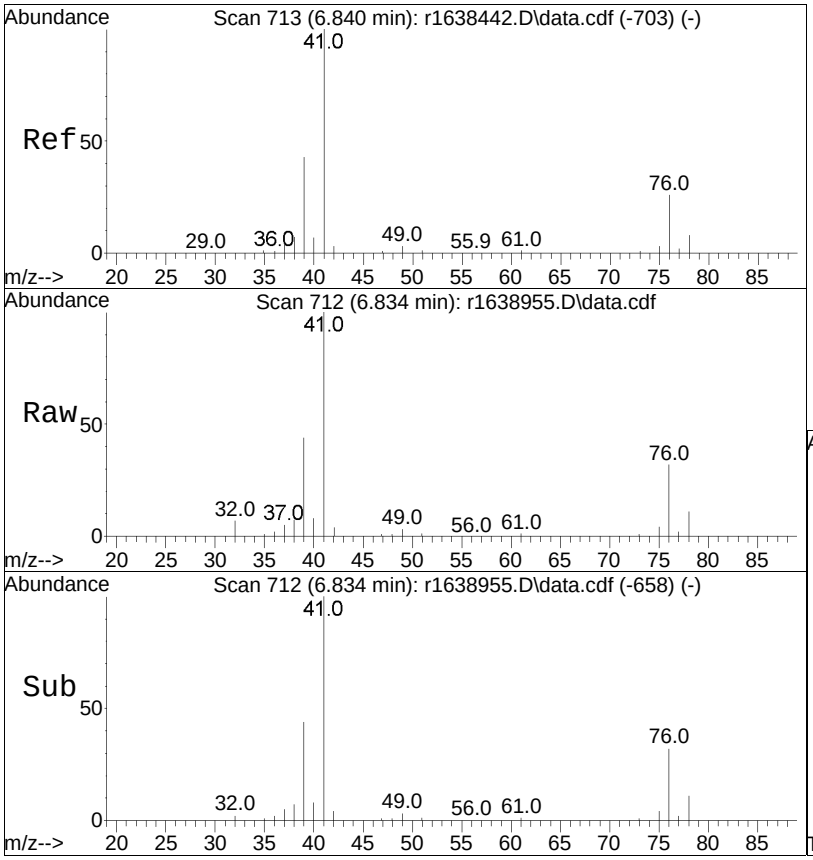


#28
methylene chloride
Concen: 9.82 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 49 Resp: 116038

Ion	Ratio	Lower	Upper
49	100		
84	82.0	62.4	93.6

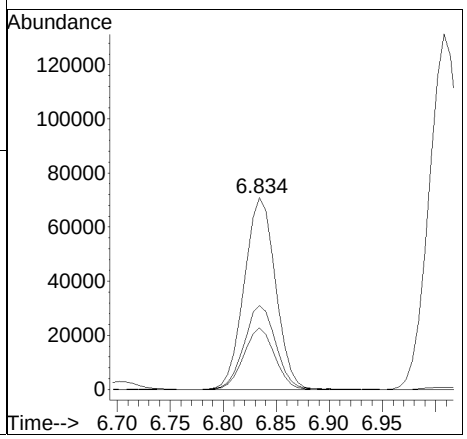


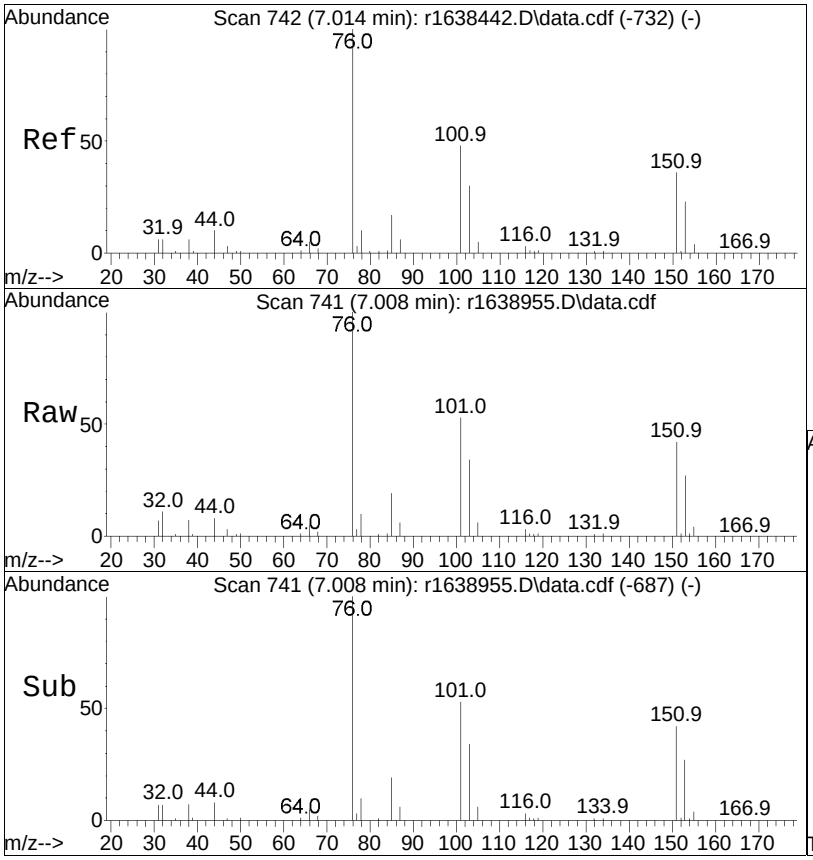


#29
3-chloropropene
Concen: 8.77 ppbV
RT: 6.834 min Scan# 712
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 41 Resp: 145964

Ion	Ratio	Lower	Upper
41	100		
39	43.8	34.6	52.0
76	32.2	20.9	31.3#

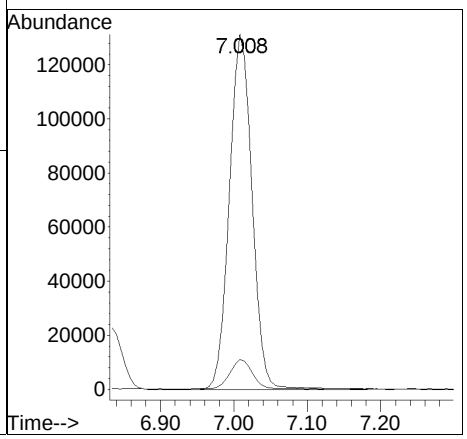


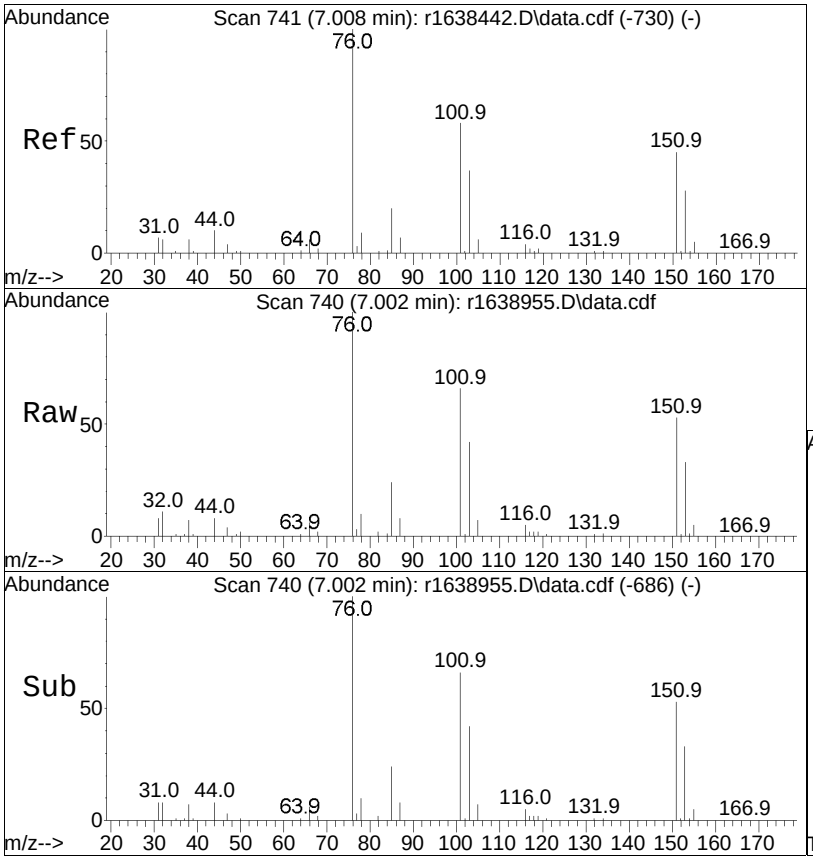


#30
carbon disulfide
Concen: 9.65 ppbV
RT: 7.008 min Scan# 741
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 76 Resp: 282709

Ion	Ratio	Lower	Upper
76	100		
44	8.4	8.6	12.8#

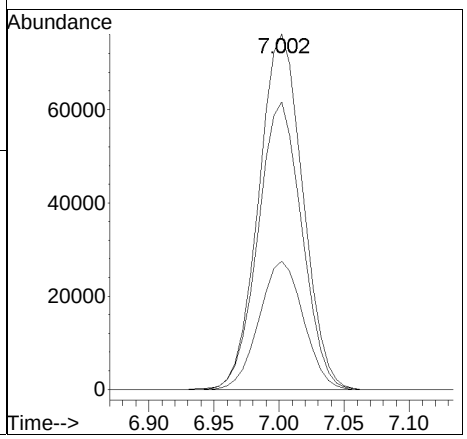


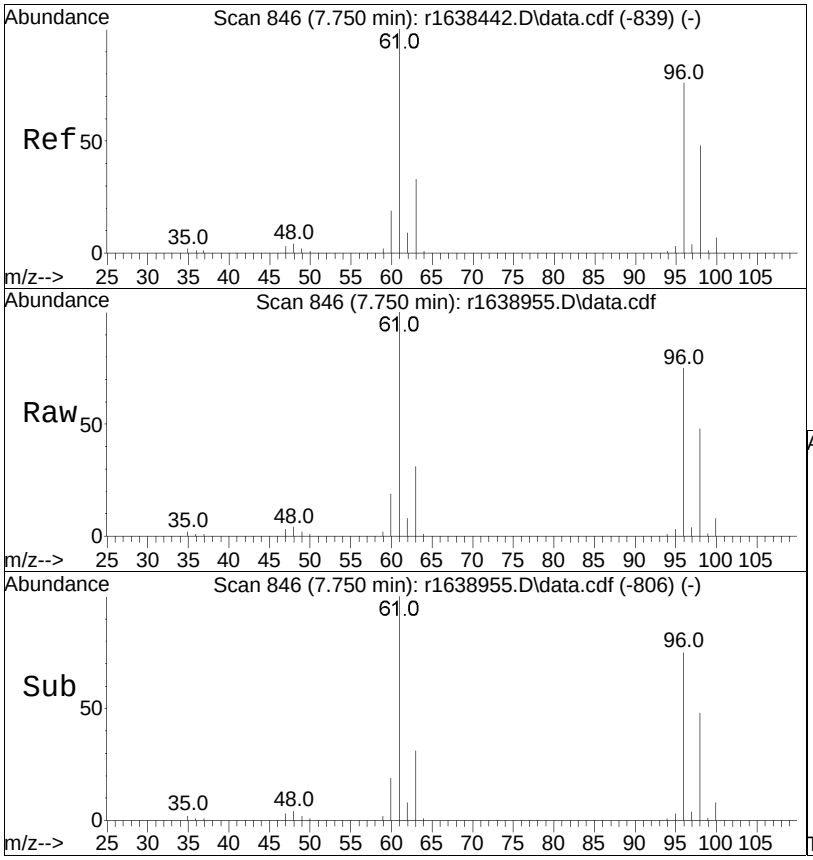


#31
Freon 113
Concen: 9.27 ppbV
RT: 7.002 min Scan# 740
Delta R.T. -0.006 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:101 Resp: 179289

Ion	Ratio	Lower	Upper
101	100		
85	36.1	27.8	41.6
151	80.9	62.2	93.4

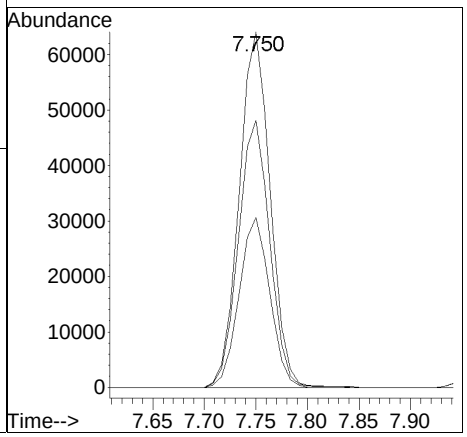


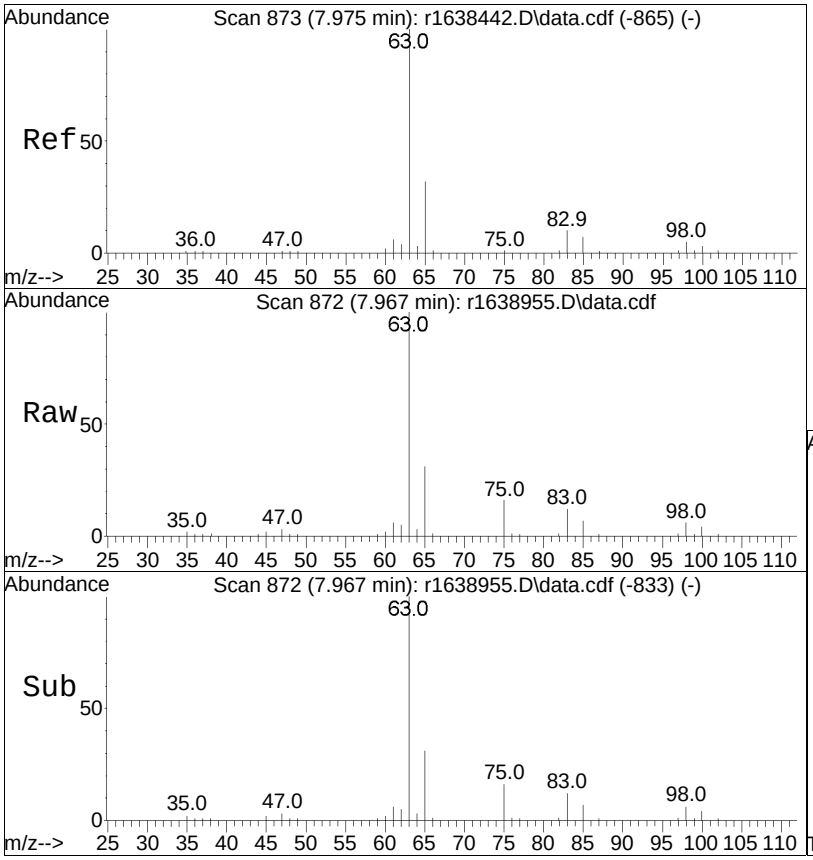


#32
trans-1,2-dichloroethene
Concen: 8.95 ppbV
RT: 7.750 min Scan# 846
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 61 Resp: 133779

Ion	Ratio	Lower	Upper
61	100		
96	75.2	60.8	91.2
98	47.9	38.2	57.4

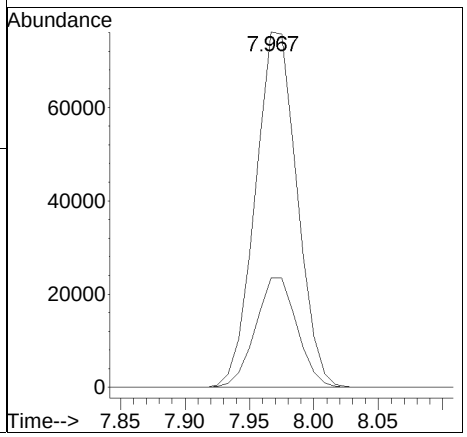


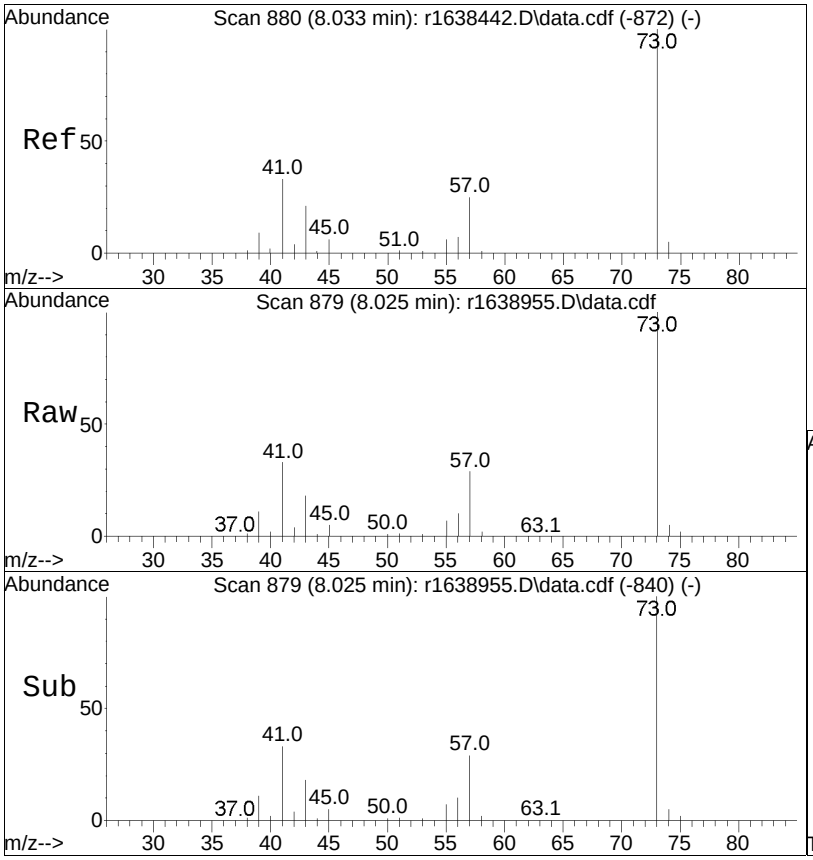


#33
1,1-dichloroethane
Concen: 8.93 ppbV
RT: 7.967 min Scan# 872
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 63 Resp: 171963

Ion	Ratio	Lower	Upper
63	100		
65	30.8	25.4	38.2

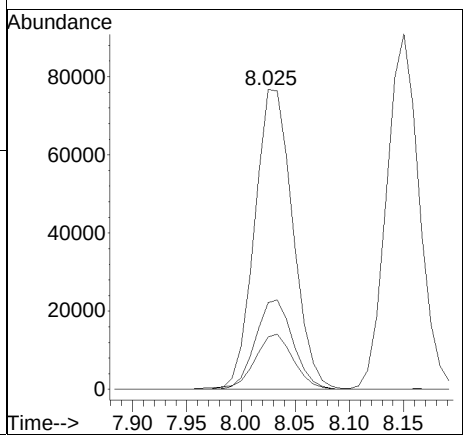


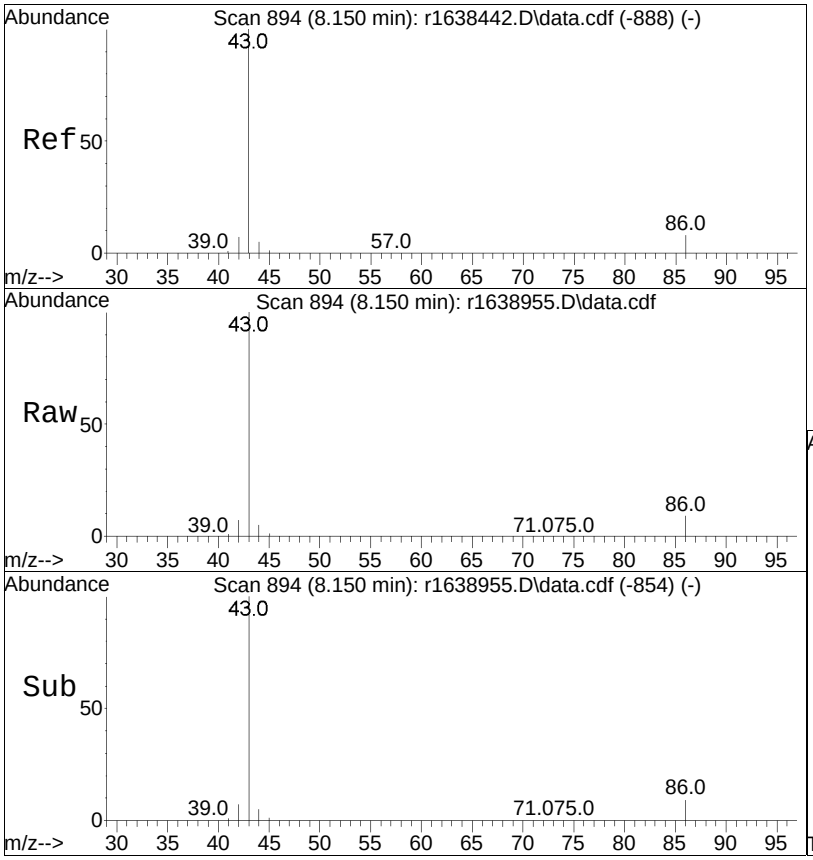


#34
MTBE
Concen: 8.09 ppbV
RT: 8.025 min Scan# 879
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 73 Resp: 187565

Ion	Ratio	Lower	Upper
73	100		
57	28.9	20.2	30.4
43	17.5	16.6	24.8

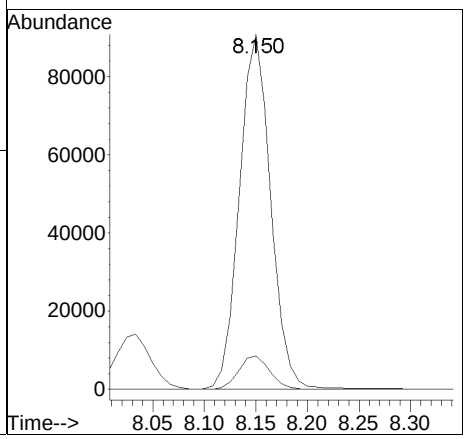


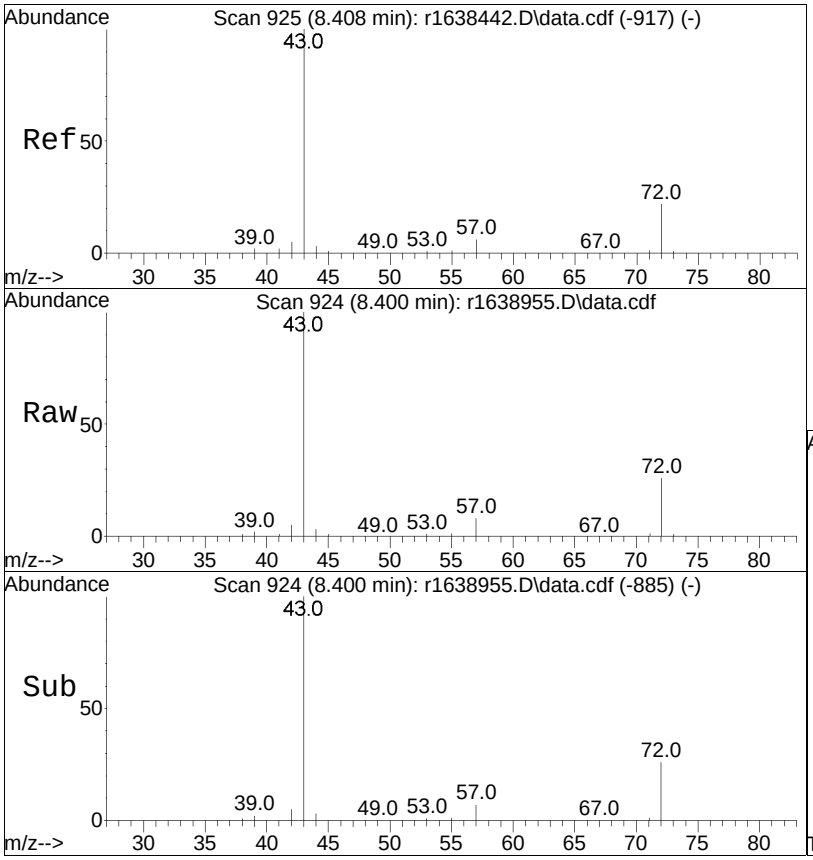


#35
vinyl acetate
Concen: 7.68 ppbV
RT: 8.150 min Scan# 894
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 191953

Ion	Ratio	Lower	Upper
43	100		
86	9.4	6.2	9.4#

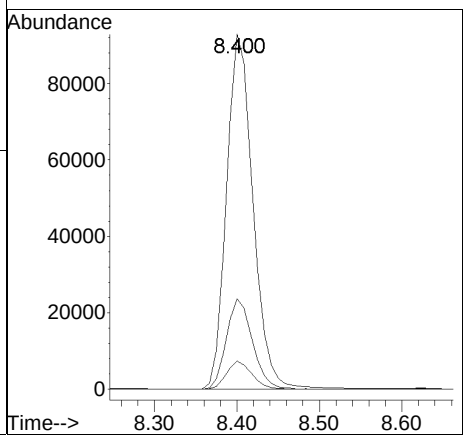


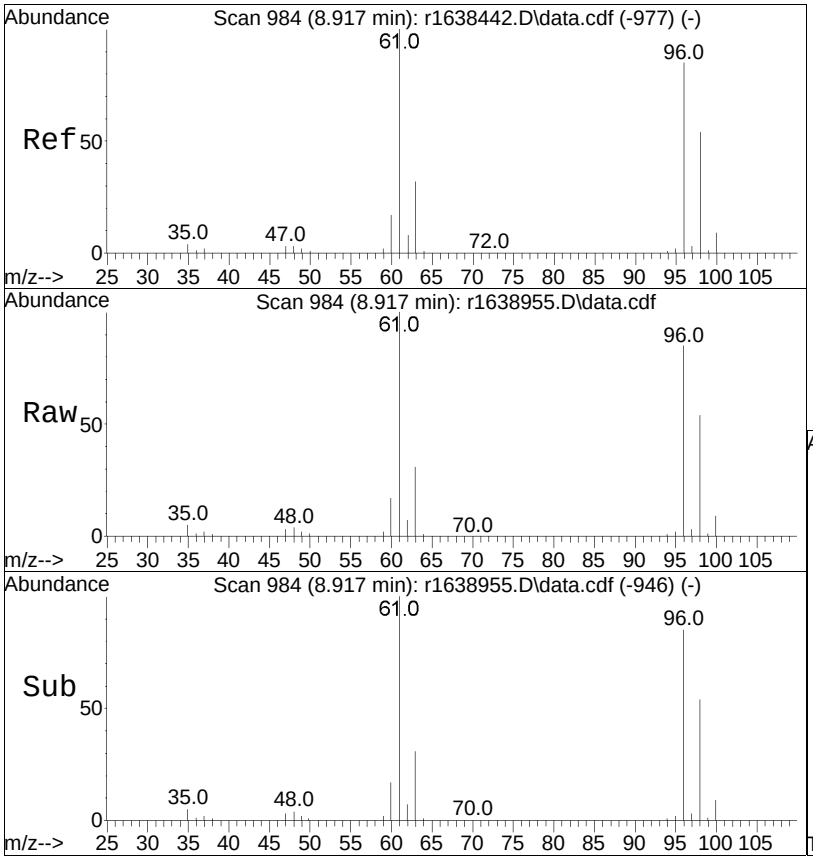


#36
2-butanone
Concen: 7.99 ppbV
RT: 8.400 min Scan# 924
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 208446

Ion	Ratio	Lower	Upper
43	100		
72	25.5	17.4	26.0
57	8.0	4.8	7.2#

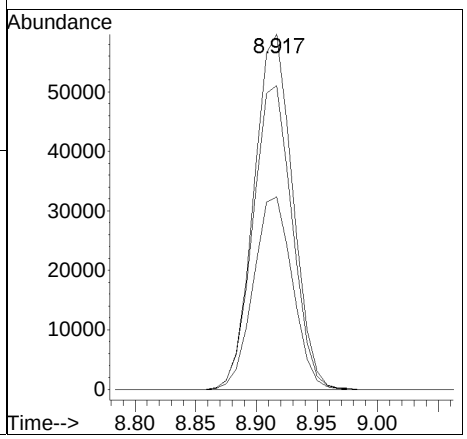


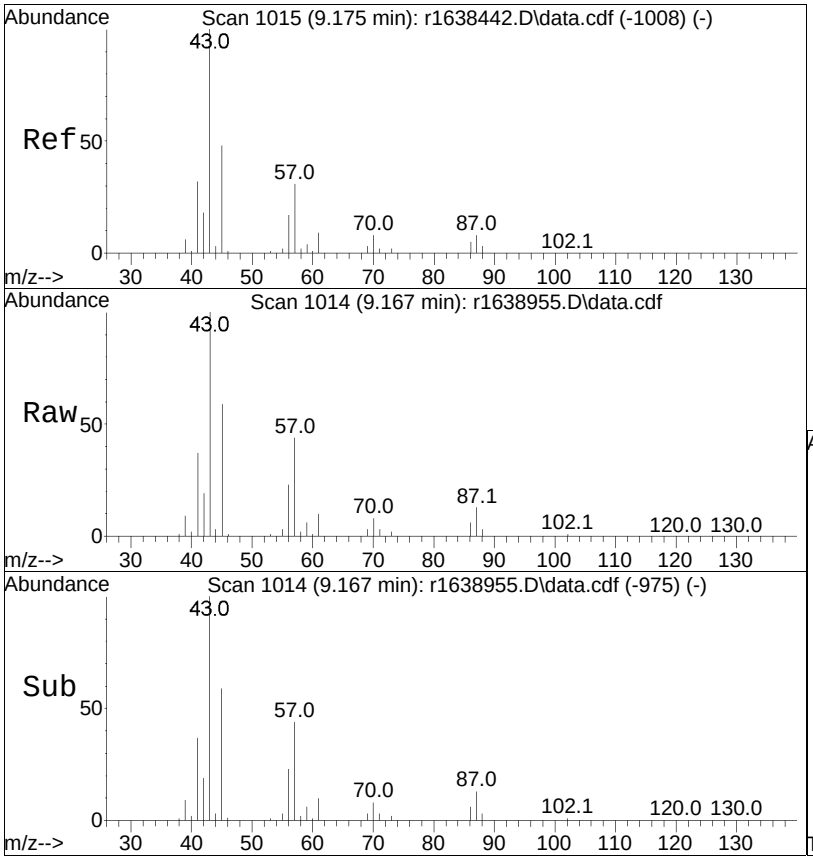


#37
cis-1,2-dichloroethene
Concen: 9.55 ppbV
RT: 8.917 min Scan# 984
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 61 Resp: 132878

Ion	Ratio	Lower	Upper
61	100		
96	85.5	68.2	102.4
98	54.2	43.1	64.7

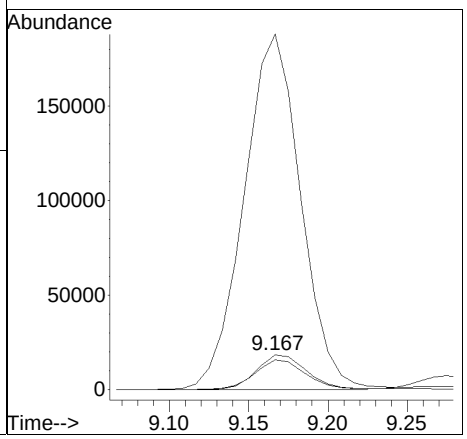


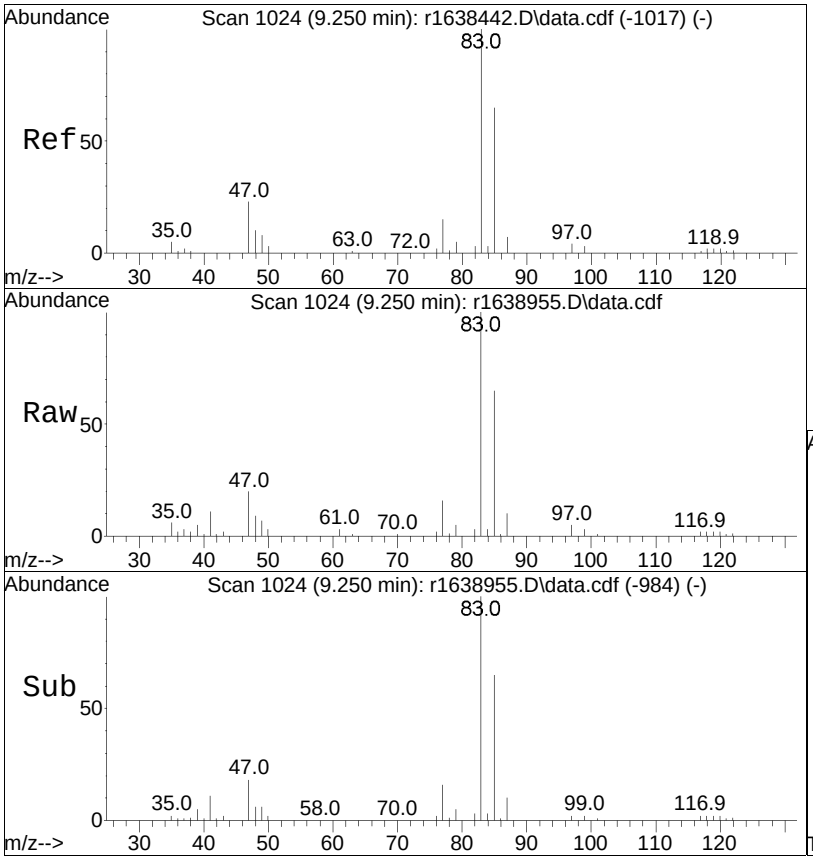


#38
Ethyl Acetate
Concen: 10.64 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 61 Resp: 40057

Ion	Ratio	Lower	Upper
61	100		
70	85.7	74.6	112.0
43	1030.7	942.0	1413.0

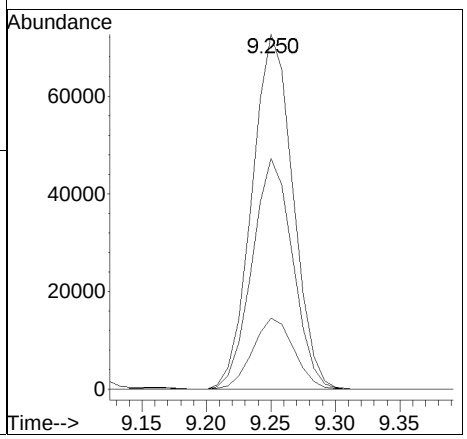


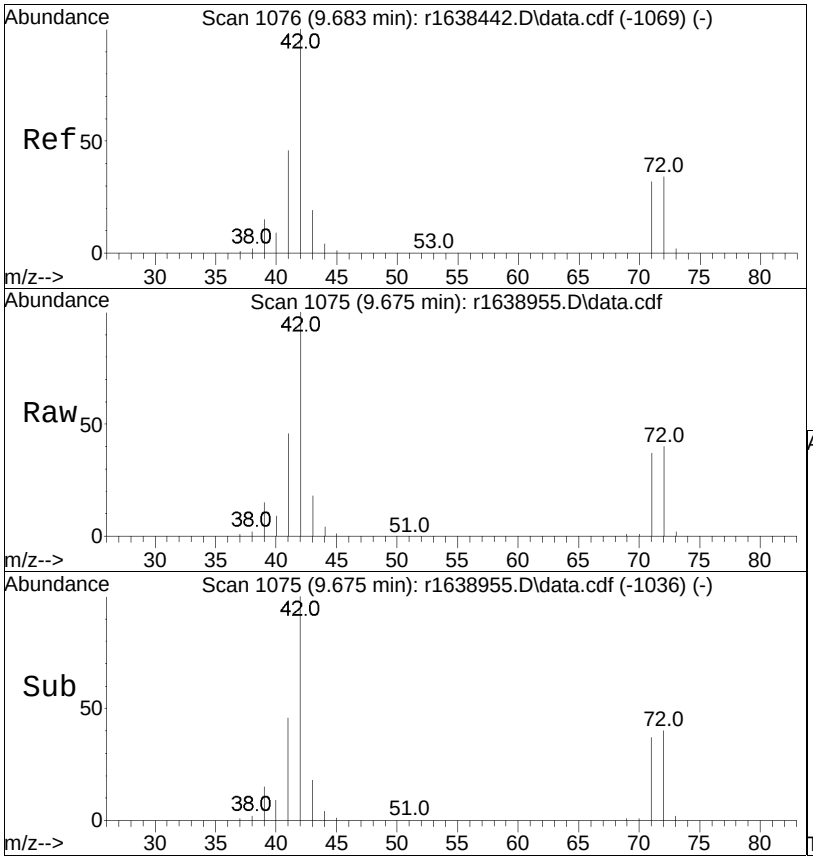


#39
chloroform
Concen: 9.66 ppbV
RT: 9.250 min Scan# 1024
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 83 Resp: 160941

Ion	Ratio	Lower	Upper
83	100		
85	65.0	51.9	77.9
47	20.1	18.0	27.0

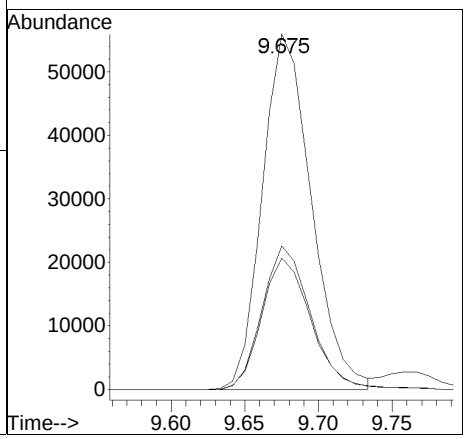


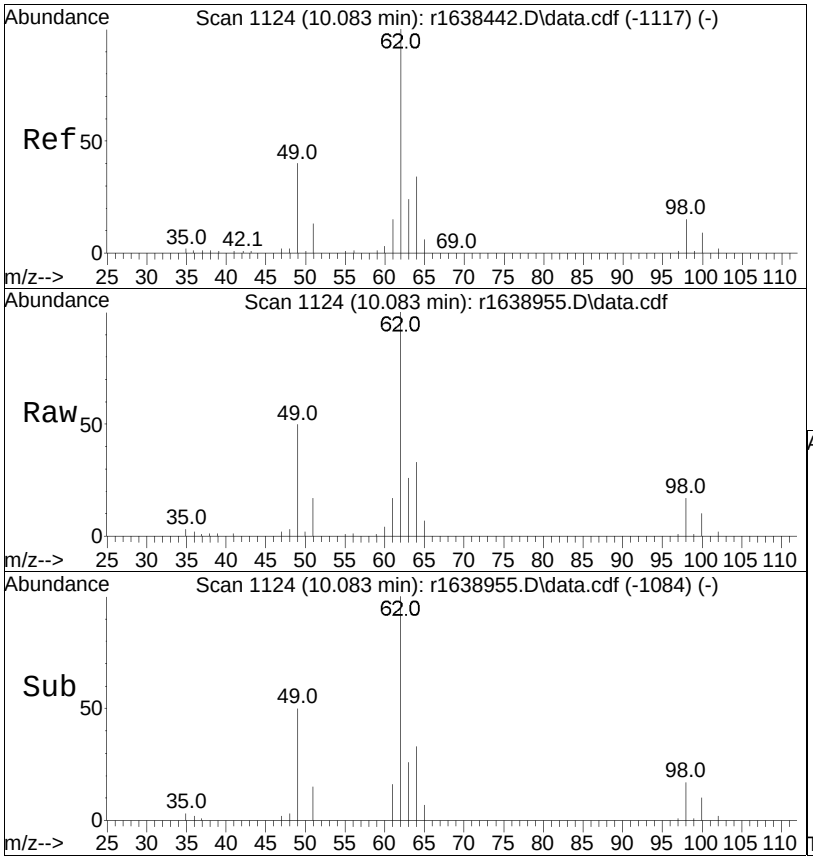


#40
Tetrahydrofuran
Concen: 7.82 ppbV
RT: 9.675 min Scan# 1075
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 42 Resp: 129366

Ion	Ratio	Lower	Upper
42	100		
71	37.0	25.6	38.4
72	40.4	27.4	41.2

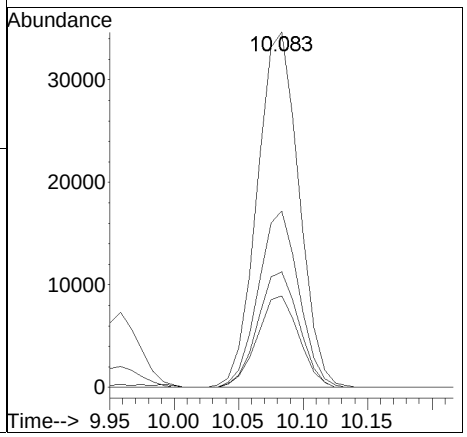


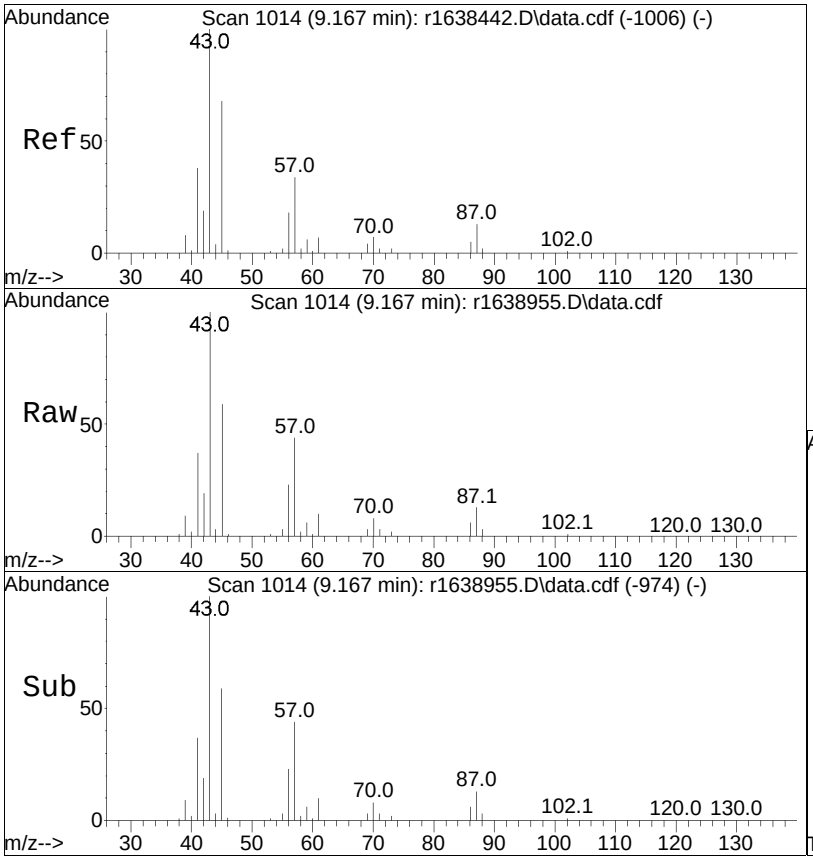


#42
1,2-dichloroethane
Concen: 7.86 ppbV
RT: 10.083 min Scan# 1124
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 62 Resp: 78077

Ion	Ratio	Lower	Upper
62	100		
64	32.5	27.0	40.6
49	49.7	32.2	48.4#
63	25.8	19.1	28.7

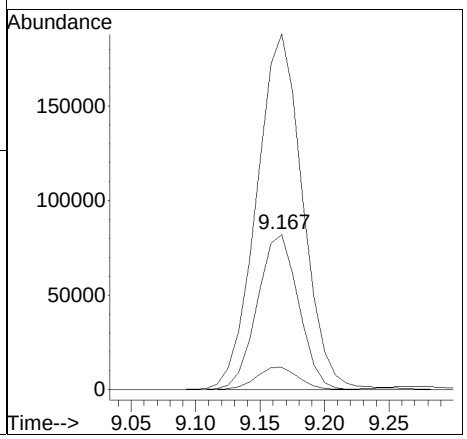


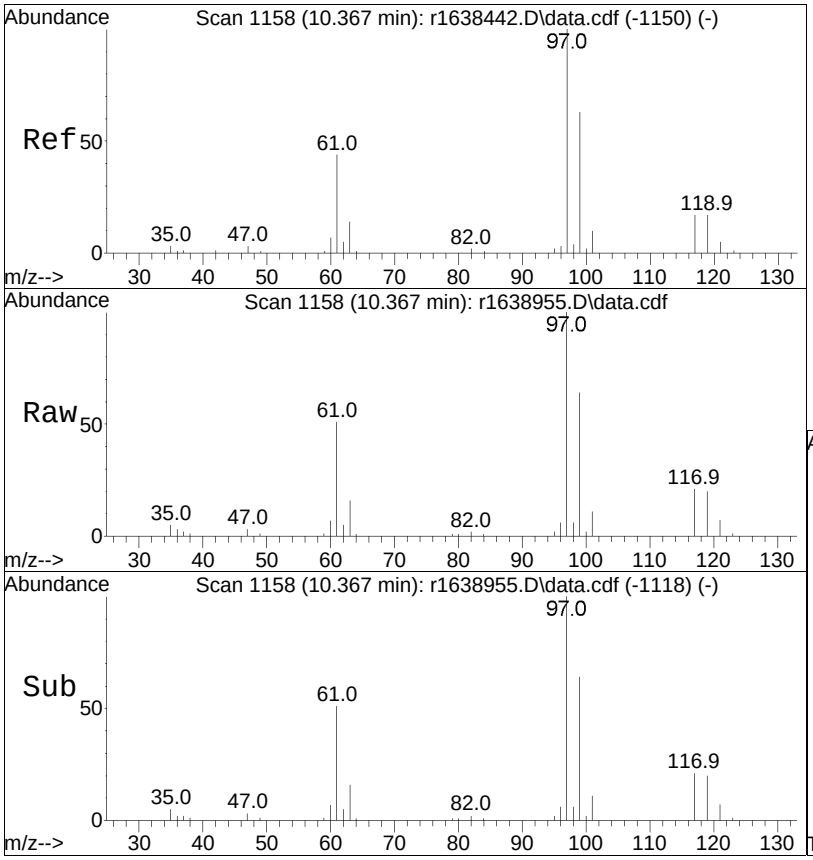


#44
hexane
Concen: 10.50 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 57 Resp: 182083

Ion	Ratio	Lower	Upper
57	100		
43	229.7	233.1	349.7#
86	14.4	12.6	18.8

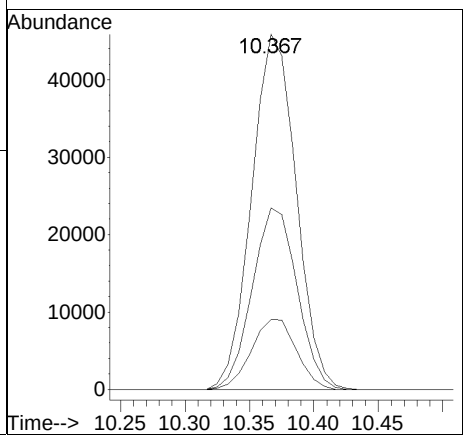


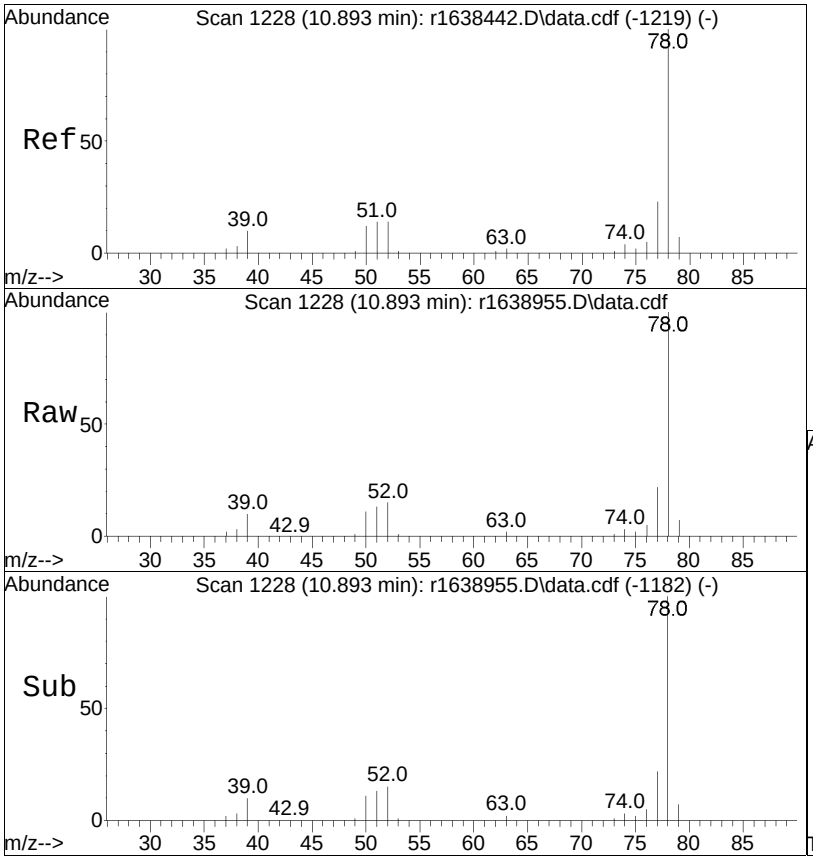


#48
1,1,1-trichloroethane
Concen: 8.04 ppbV
RT: 10.367 min Scan# 1158
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 97 Resp: 110102

Ion	Ratio	Lower	Upper
97	100		
61	51.1	35.0	52.6
119	19.7	13.4	20.0

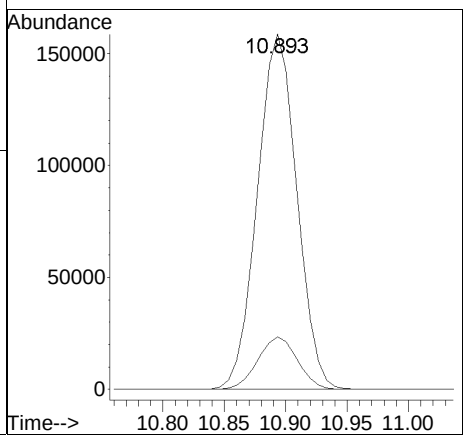


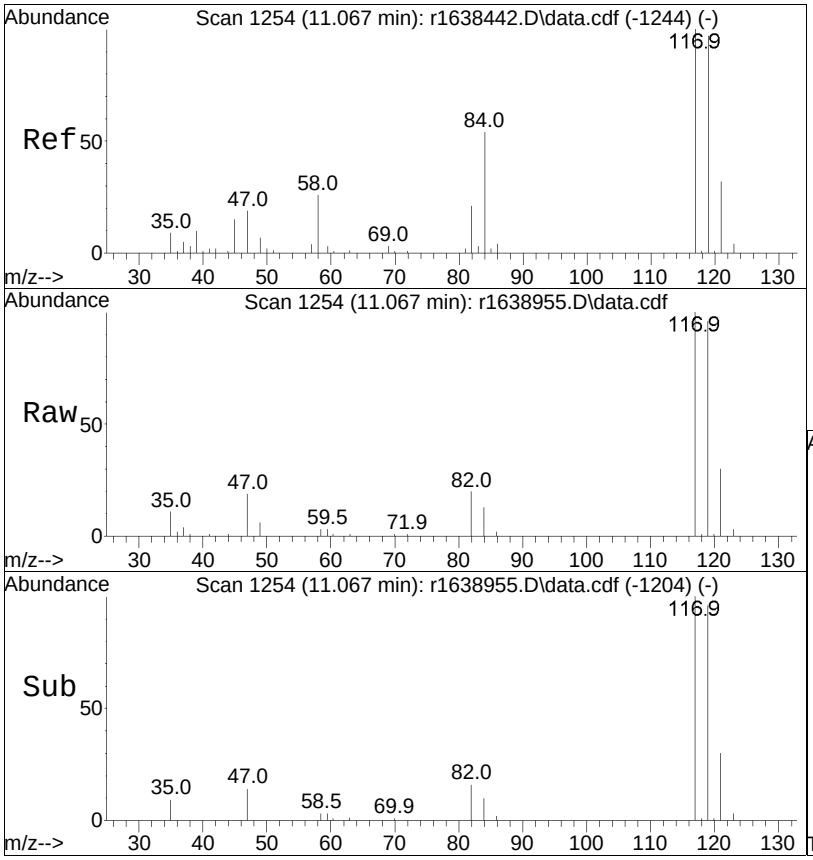


#50
benzene
Concen: 9.94 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 78 Resp: 354588

Ion	Ratio	Lower	Upper
78	100		
52	14.8	11.6	17.4

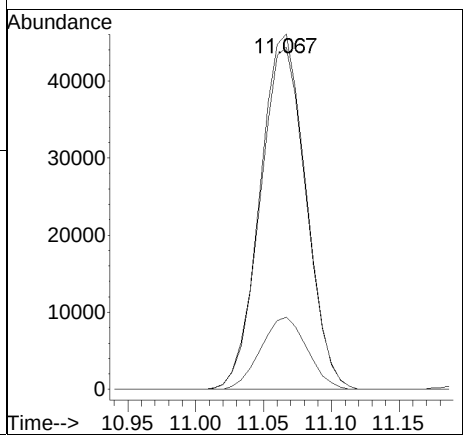


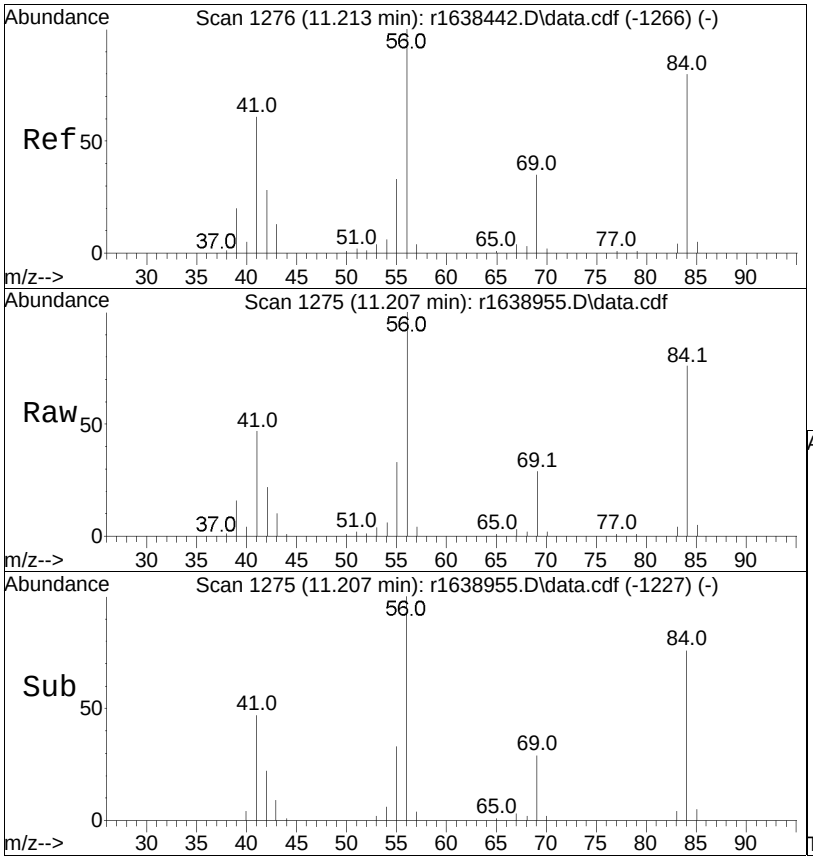


#52
carbon tetrachloride
Concen: 9.16 ppbV
RT: 11.067 min Scan# 1254
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:117 Resp: 108443

Ion	Ratio	Lower	Upper
117	100		
119	96.3	77.4	116.0
82	20.3	16.6	24.8

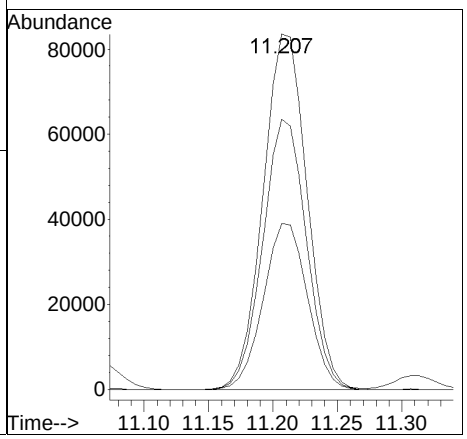


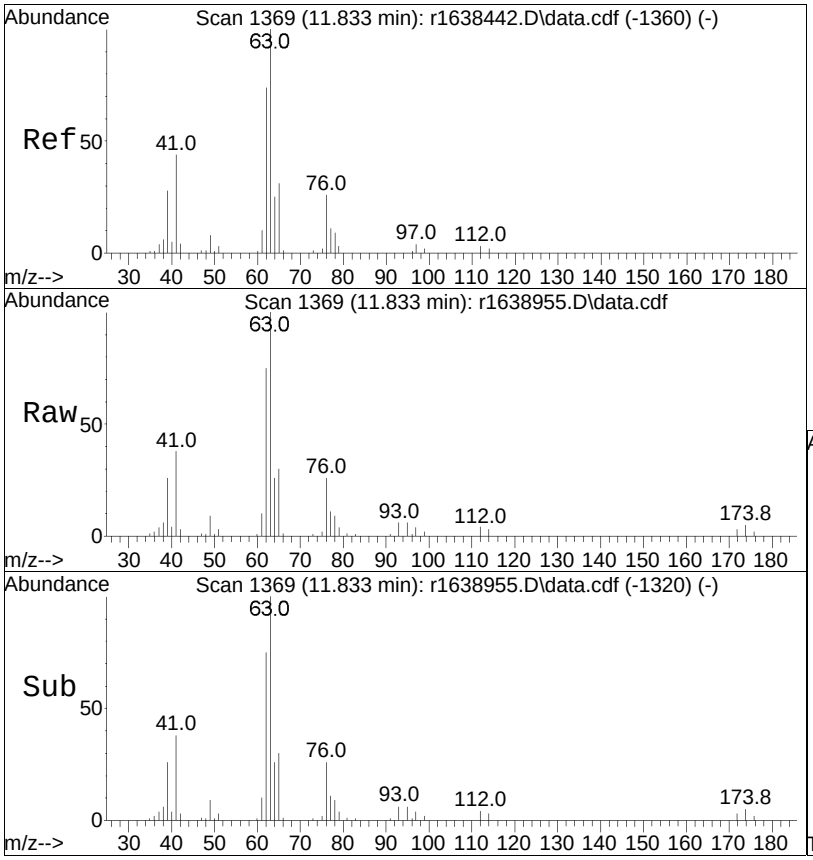


#53
cyclohexane
Concen: 10.79 ppbV
RT: 11.207 min Scan# 1275
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 56 Resp: 199124

Ion	Ratio	Lower	Upper
56	100		
84	76.1	64.2	96.4
41	46.7	48.8	73.2#

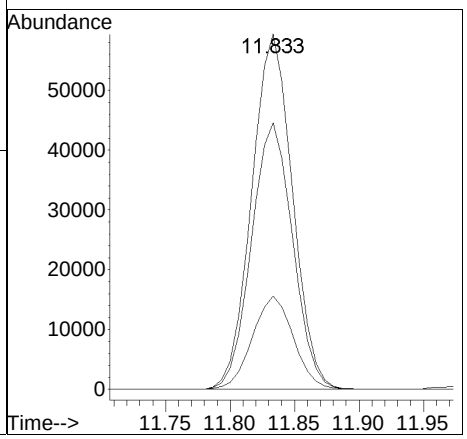


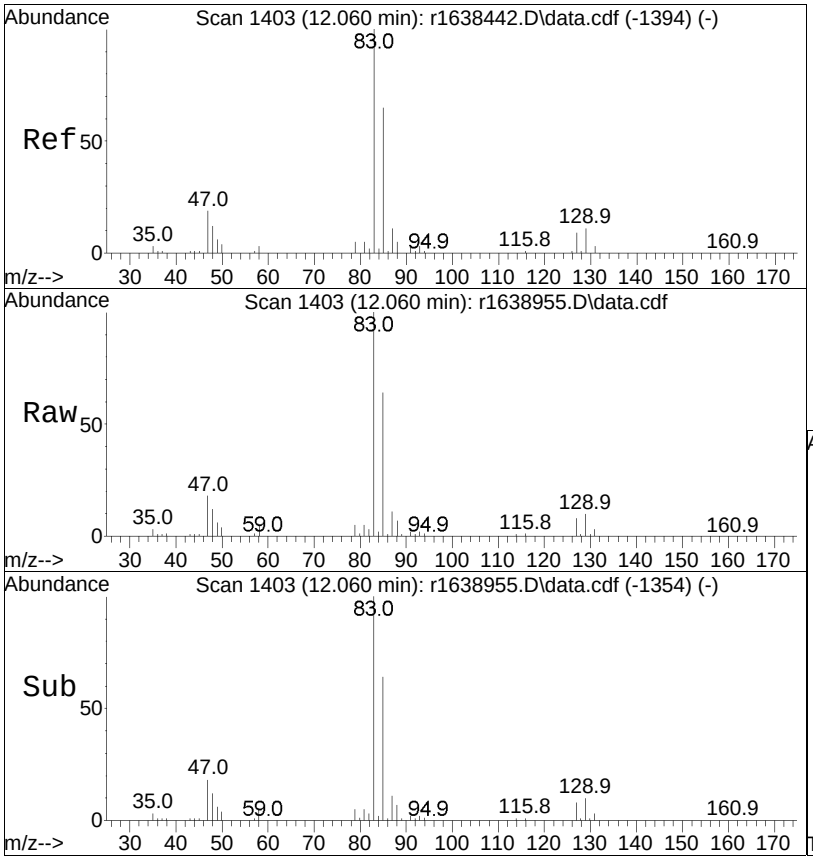


#56
1,2-dichloropropane
Concen: 9.31 ppbV
RT: 11.833 min Scan# 1369
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 63 Resp: 130719

Ion	Ratio	Lower	Upper
63	100		
62	75.1	59.3	88.9
39	26.3	22.4	33.6

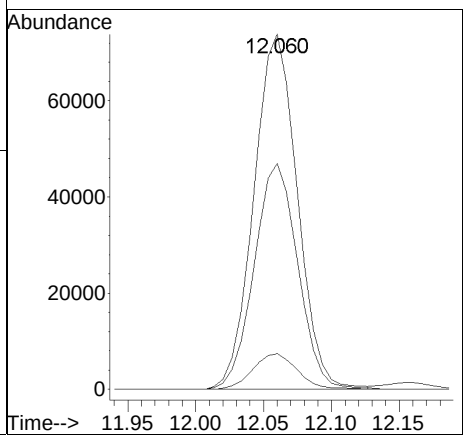


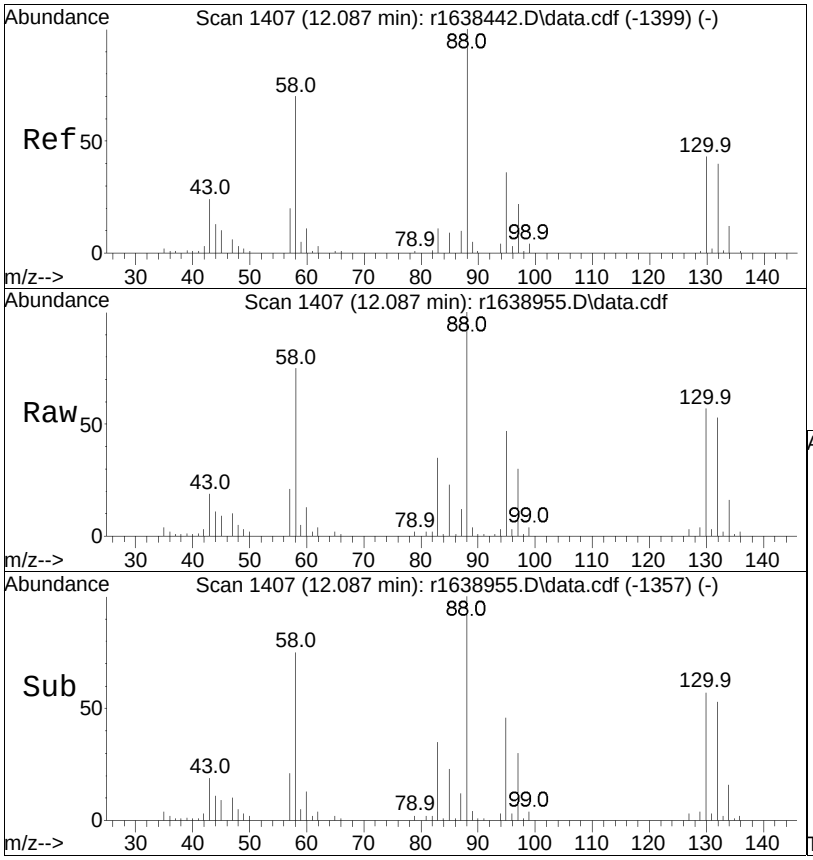


#57
bromodichloromethane
Concen: 10.29 ppbV
RT: 12.060 min Scan# 1403
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 83 Resp: 164588

Ion	Ratio	Lower	Upper
83	100		
85	63.6	51.8	77.6
129	10.1	8.9	13.3

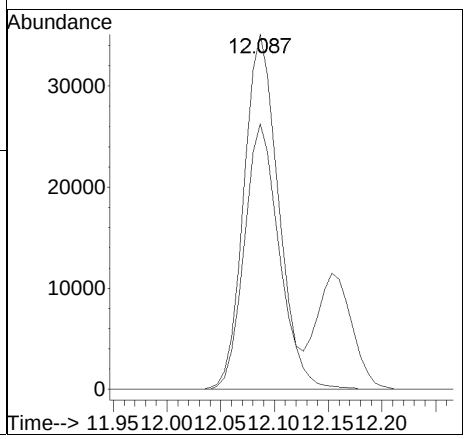


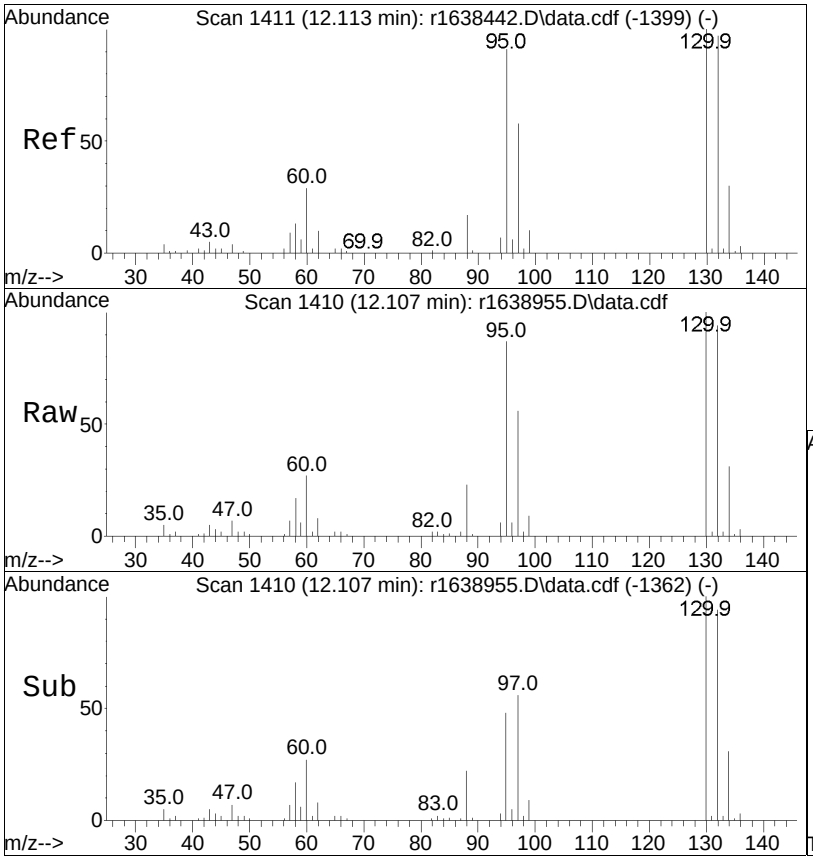


#58
1,4-dioxane
Concen: 9.66 ppbV
RT: 12.087 min Scan# 1407
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 88 Resp: 78822

Ion	Ratio	Lower	Upper
88	100		
58	74.8	56.2	84.4

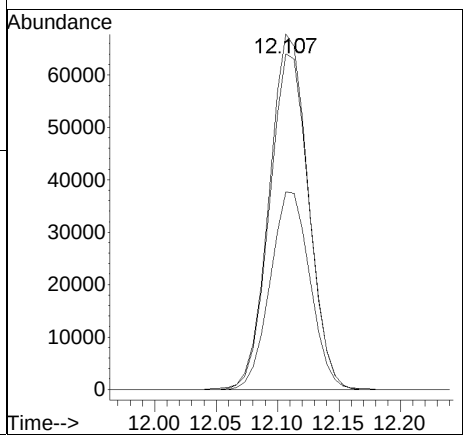


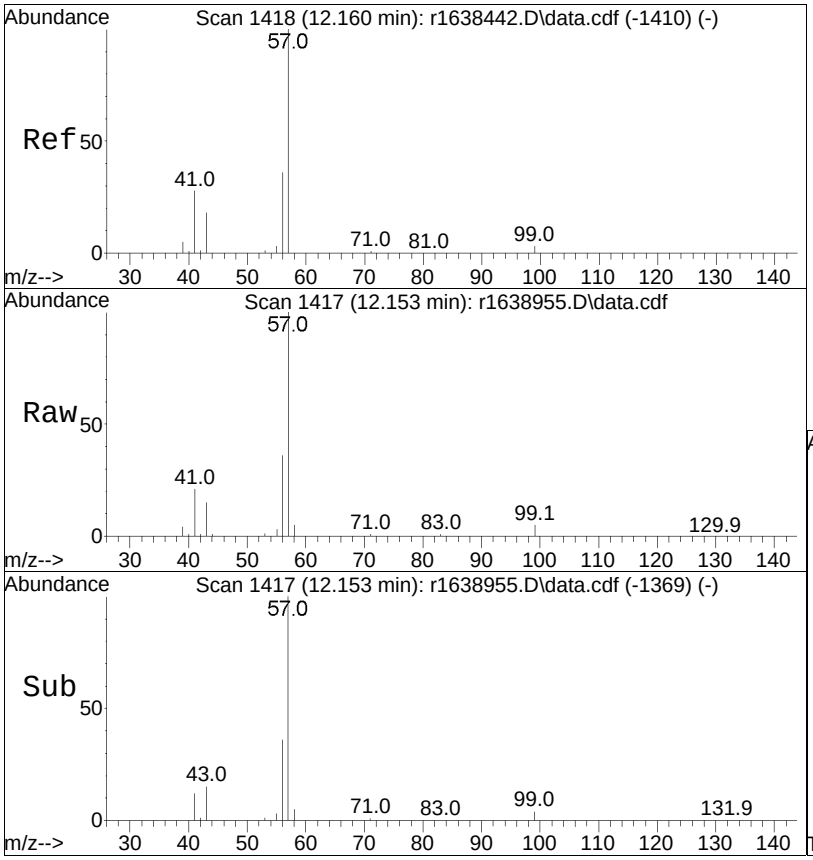


#59
trichloroethene
Concen: 9.57 ppbV
RT: 12.107 min Scan# 1410
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:130 Resp: 150088

Ion	Ratio	Lower	Upper
130	100		
132	94.5	77.3	115.9
97	55.5	46.6	69.8

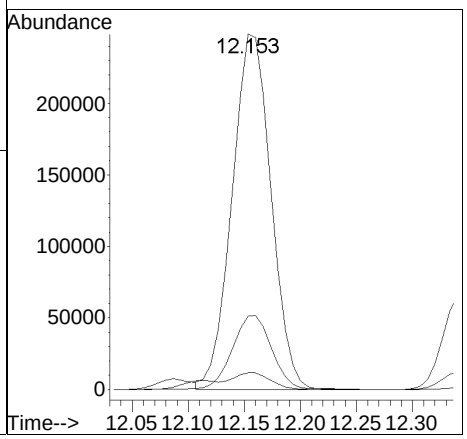


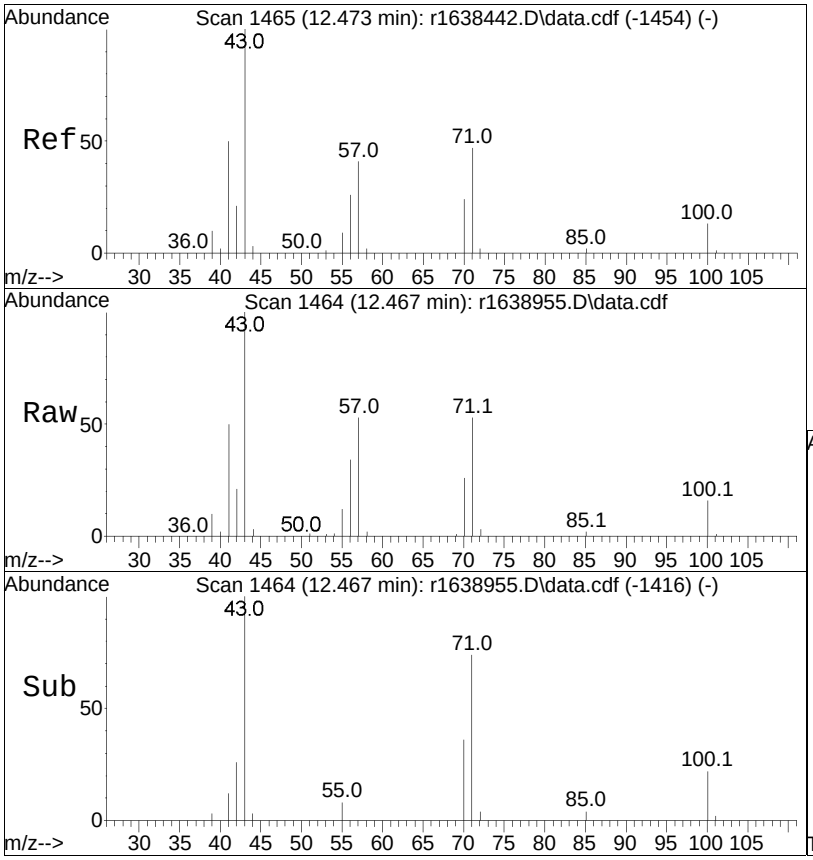


#60
2,2,4-trimethylpentane
Concen: 10.57 ppbV
RT: 12.153 min Scan# 1417
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 57 Resp: 599731

Ion	Ratio	Lower	Upper
57	100		
99	4.7	4.4	6.6
41	20.6	21.9	32.9#

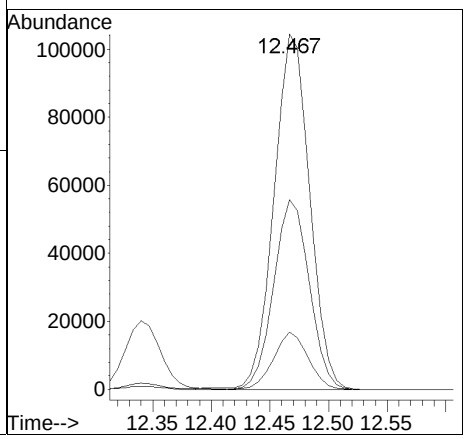


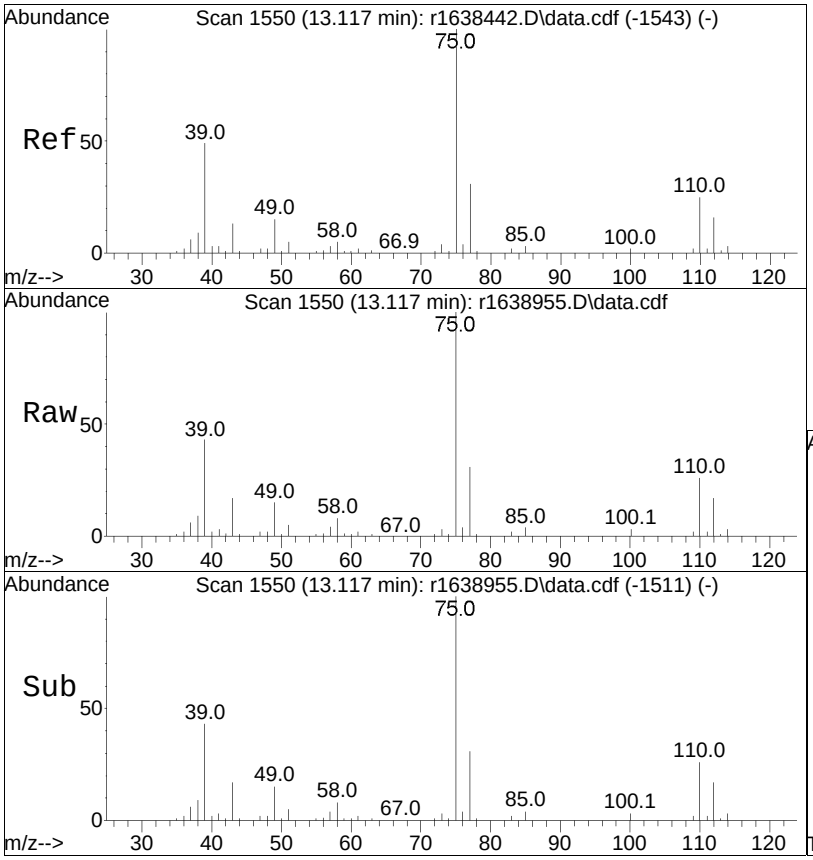


#62
heptane
Concen: 8.26 ppbV
RT: 12.467 min Scan# 1464
Delta R.T. -0.007 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 220938

Ion	Ratio	Lower	Upper
43	100		
57	53.4	32.8	49.2#
100	16.2	10.9	16.3

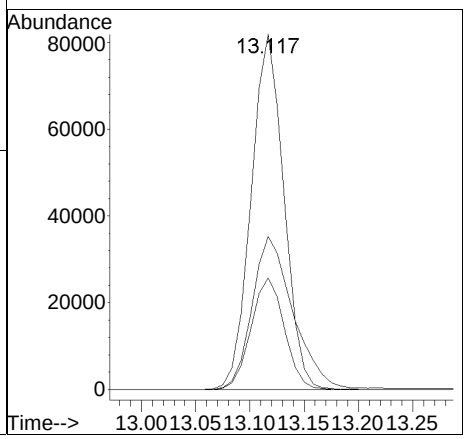


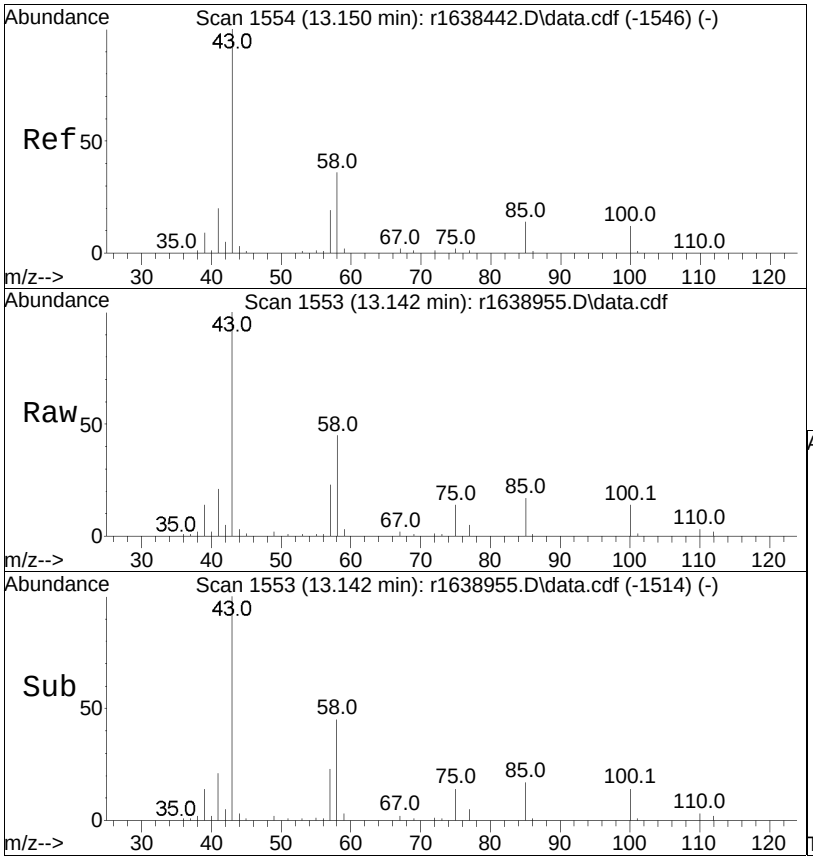


#63
cis-1,3-dichloropropene
Concen: 9.84 ppbV
RT: 13.117 min Scan# 1550
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 75 Resp: 171160

Ion	Ratio	Lower	Upper
75	100		
39	43.0	39.6	59.4
77	31.4	24.9	37.3

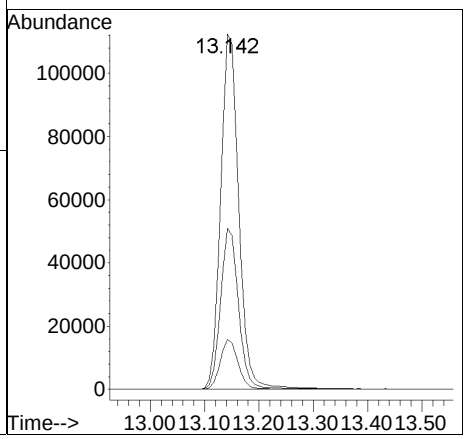


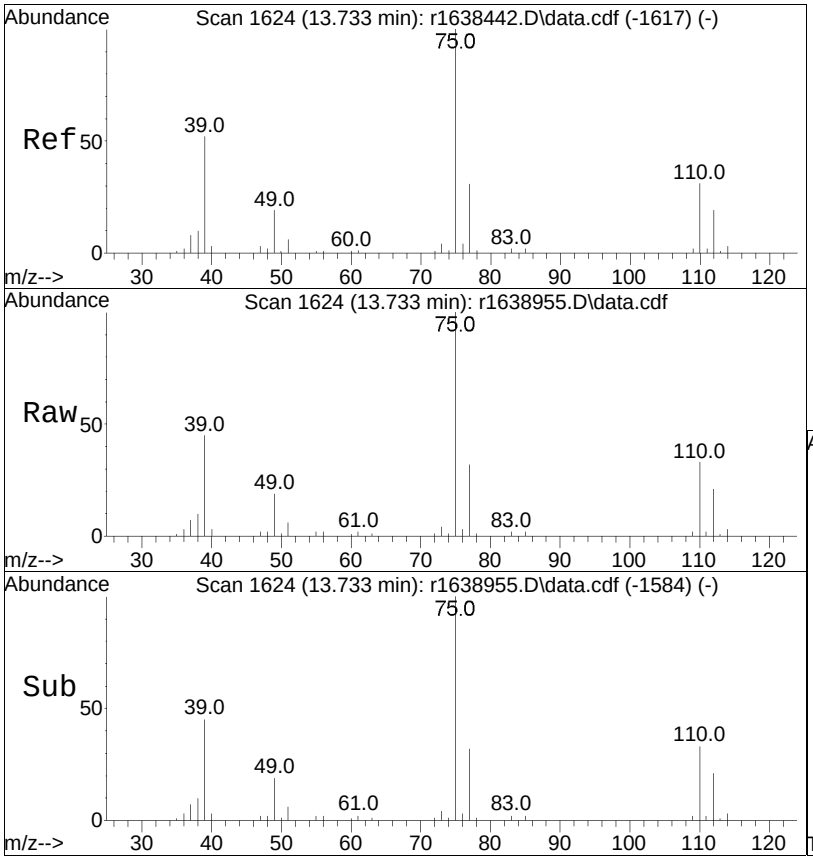


#64
4-methyl-2-pentanone
Concen: 8.49 ppbV
RT: 13.142 min Scan# 1553
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 262718

Ion	Ratio	Lower	Upper
43	100		
58	45.3	28.6	43.0#
100	14.1	9.9	14.9

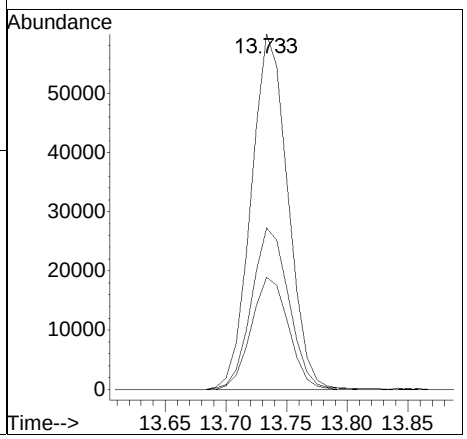


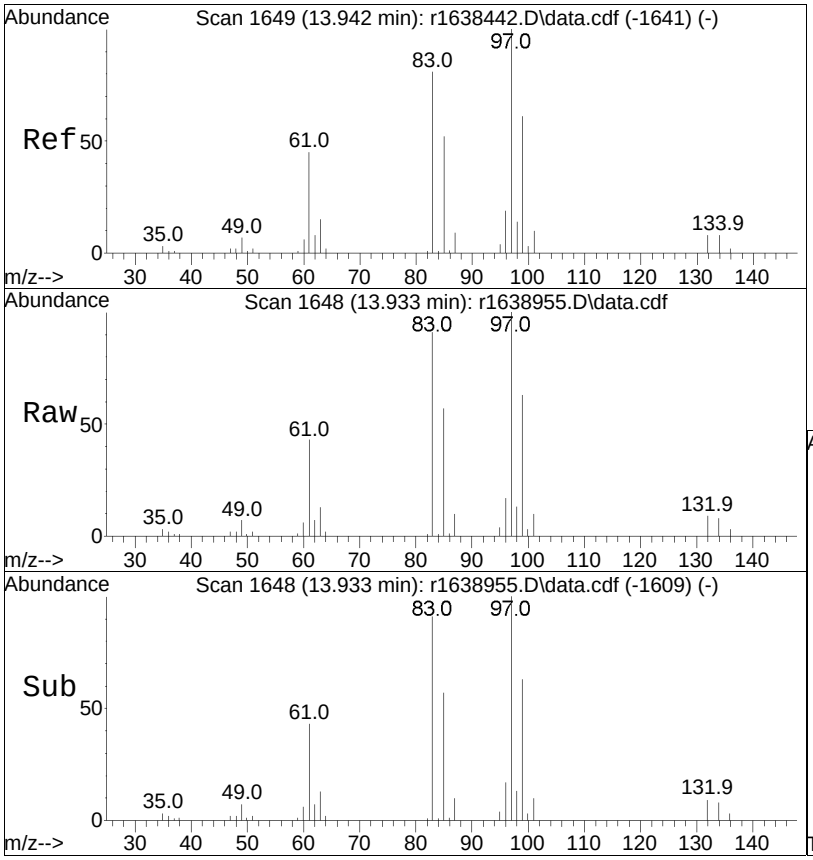


#65
trans-1,3-dichloropropene
Concen: 9.33 ppbV
RT: 13.733 min Scan# 1624
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 75 Resp: 125877

Ion	Ratio	Lower	Upper
75	100		
77	31.5	25.1	37.7
39	45.5	41.5	62.3

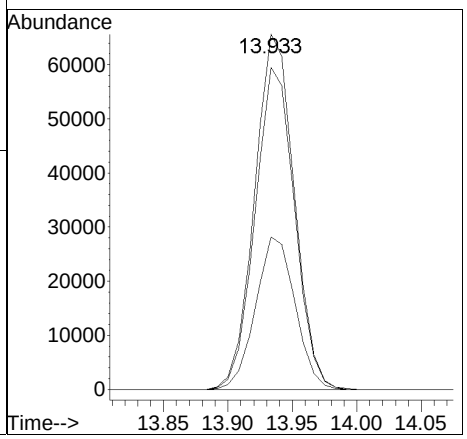


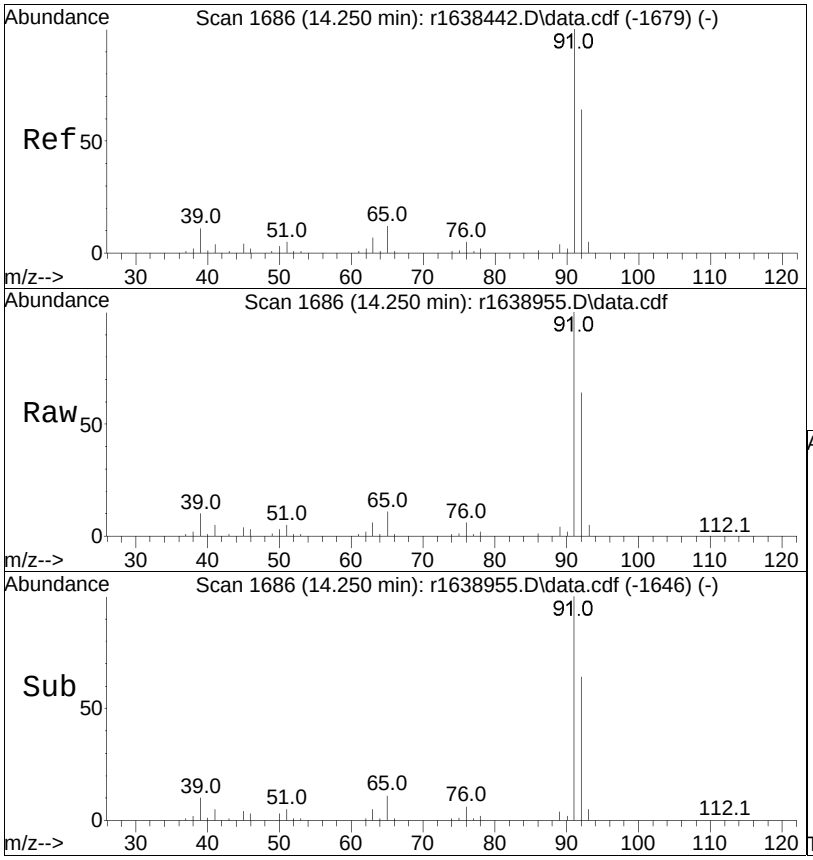


#66
1,1,2-trichloroethane
Concen: 9.59 ppbV
RT: 13.933 min Scan# 1648
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 97 Resp: 140281

Ion	Ratio	Lower	Upper
97	100		
83	90.7	64.5	96.7
61	42.9	36.2	54.2

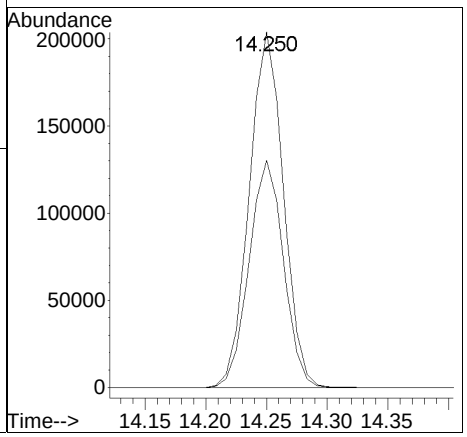


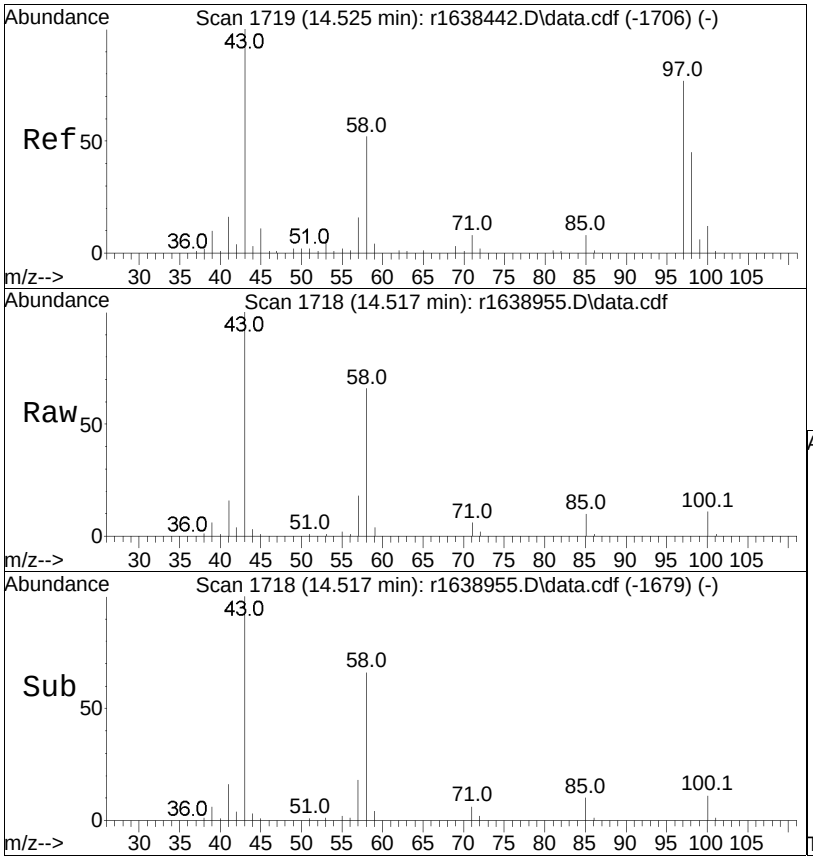


#68
toluene
Concen: 8.73 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 91 Resp: 398524

Ion	Ratio	Lower	Upper
91	100		
92	63.9	51.0	76.4

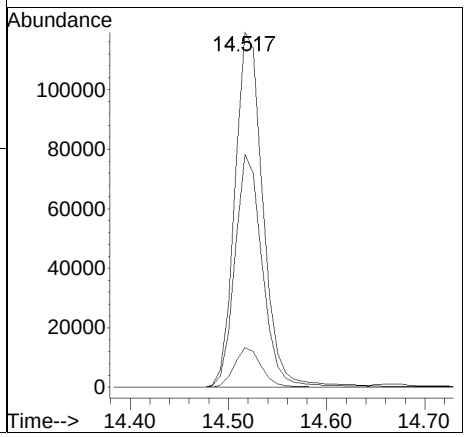


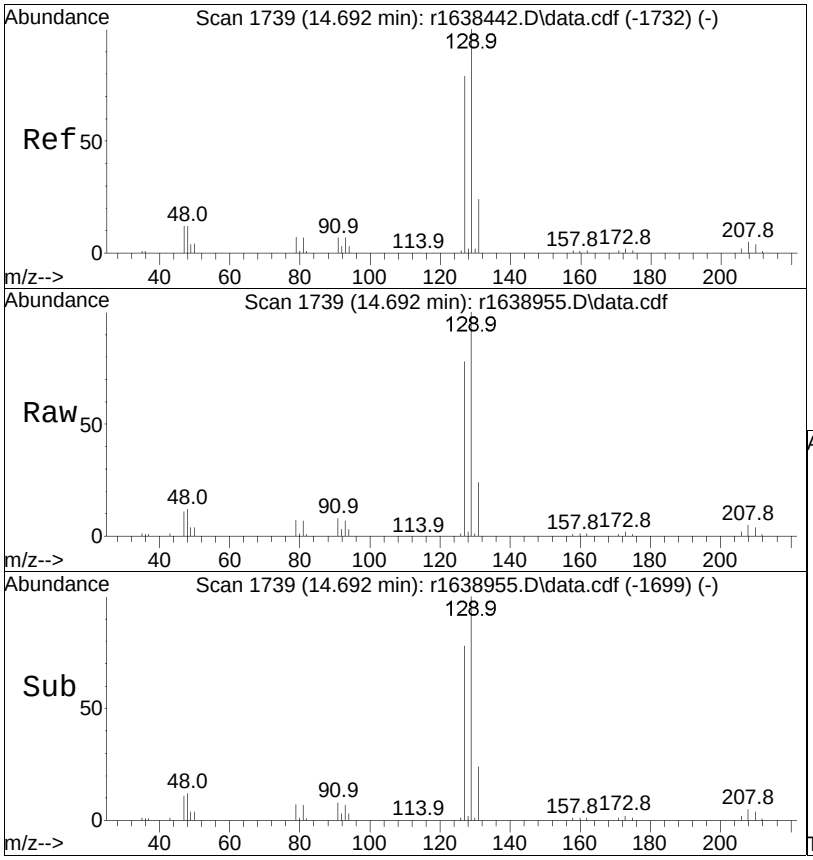


#72
2-hexanone
Concen: 8.02 ppbV
RT: 14.517 min Scan# 1718
Delta R.T. -0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 43 Resp: 238218

Ion	Ratio	Lower	Upper
43	100		
58	65.6	41.4	62.2#
100	11.2	9.3	13.9

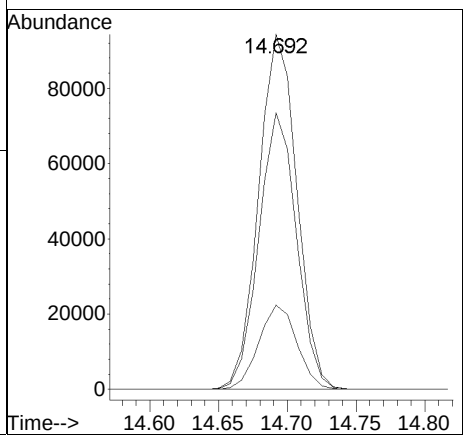


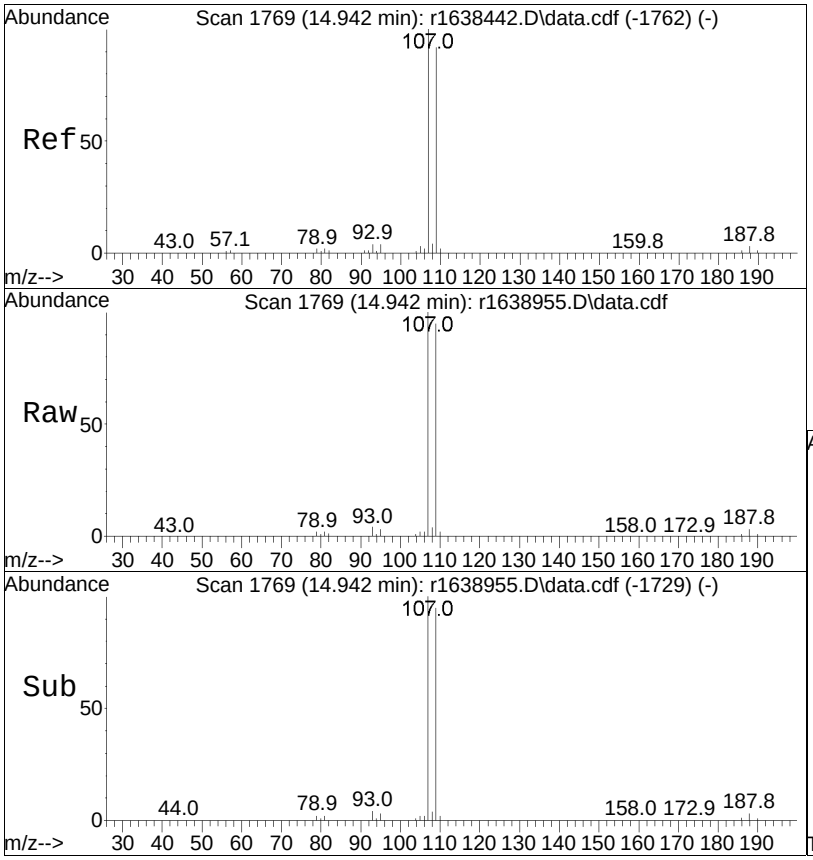


#74
dibromochloromethane
Concen: 10.11 ppbV
RT: 14.692 min Scan# 1739
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:129 Resp: 182615

Ion	Ratio	Lower	Upper
129	100		
127	77.9	63.0	94.6
131	23.7	19.3	28.9

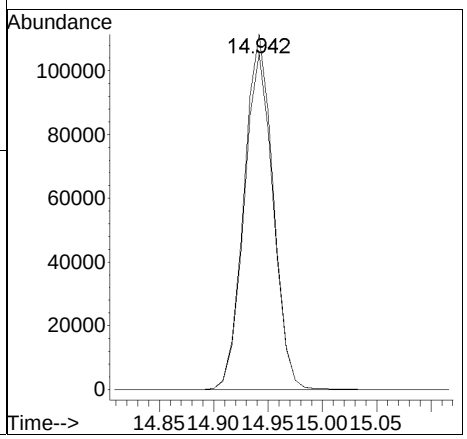


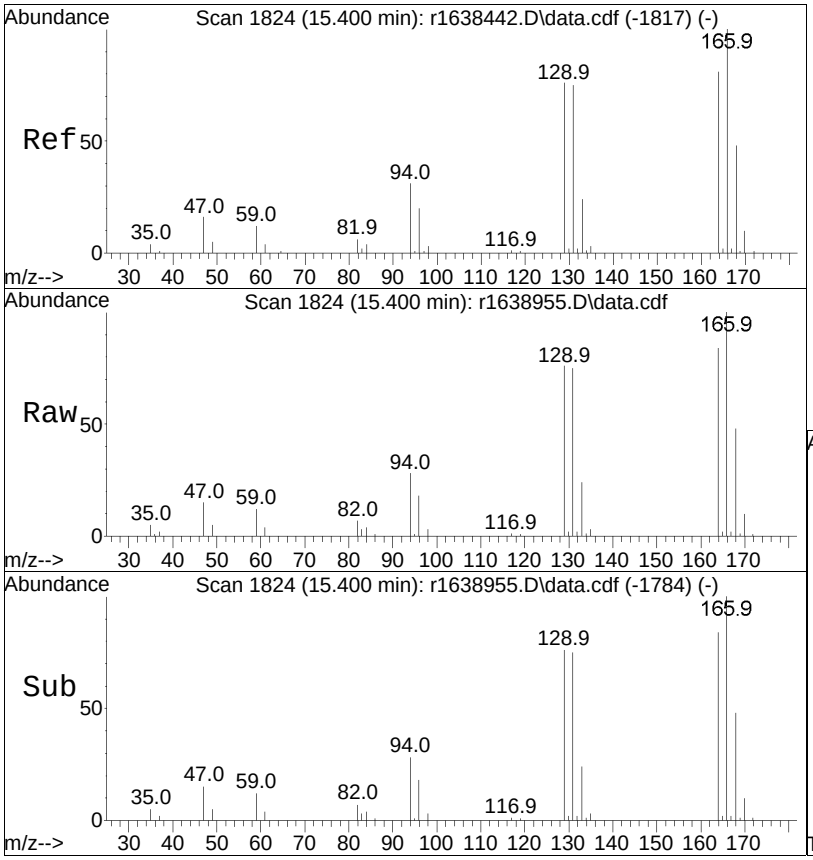


#75
1,2-dibromoethane
Concen: 9.71 ppbV
RT: 14.942 min Scan# 1769
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:107 Resp: 208042

Ion	Ratio	Lower	Upper
107	100		
109	94.5	73.6	110.4

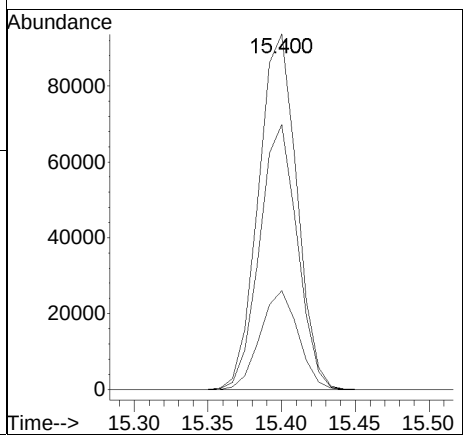


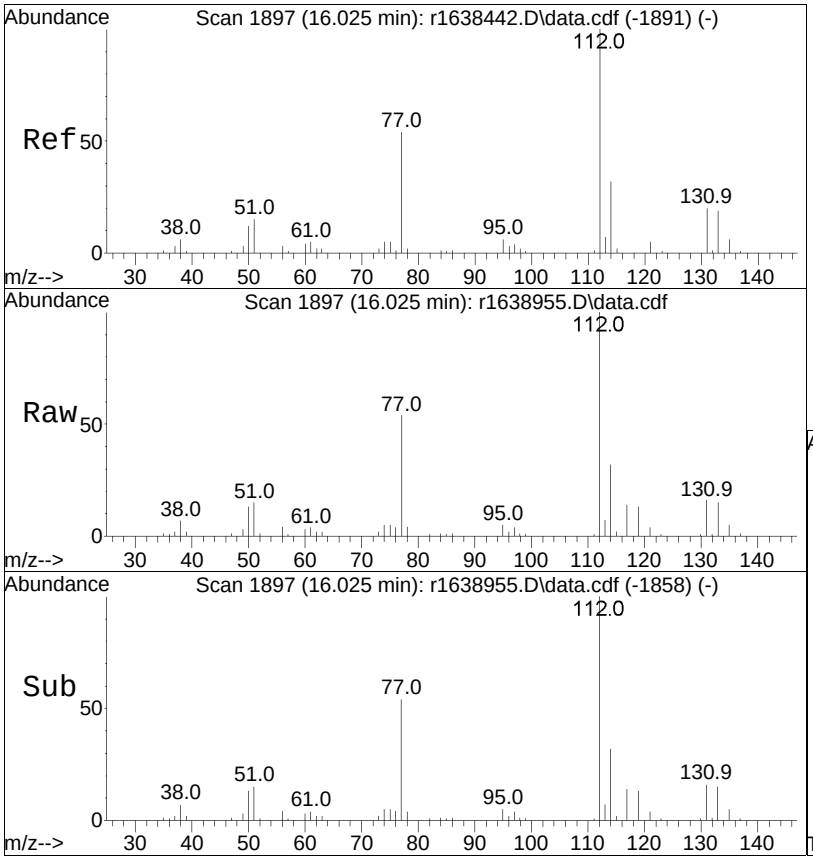


#78
tetrachloroethene
Concen: 8.98 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:166 Resp: 170164

Ion	Ratio	Lower	Upper
166	100		
131	74.5	59.8	89.6
94	27.8	24.6	36.8

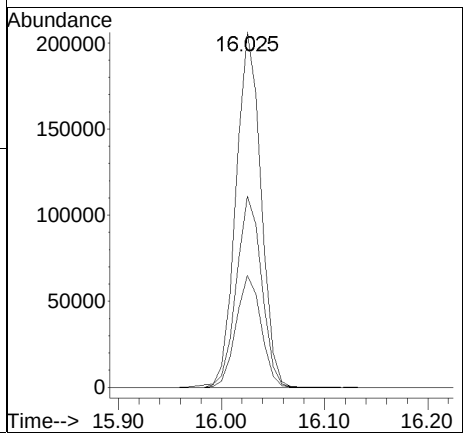


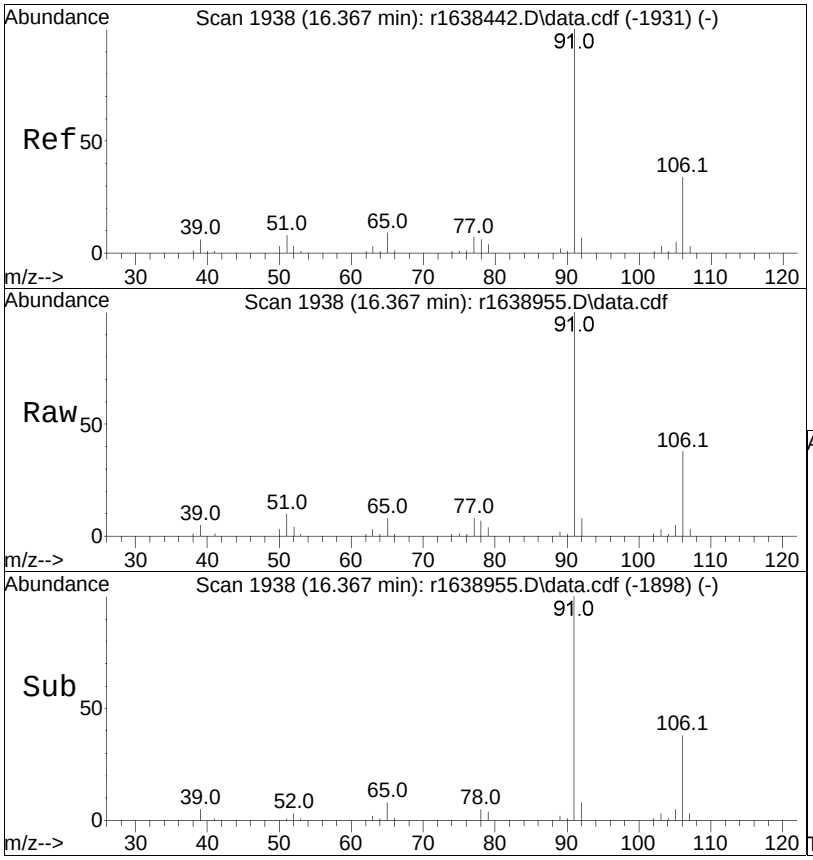


#80
chlorobenzene
Concen: 9.64 ppbV
RT: 16.025 min Scan# 1897
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:112 Resp: 346410

Ion	Ratio	Lower	Upper
112	100		
114	31.5	25.9	38.9
77	53.9	43.8	65.8

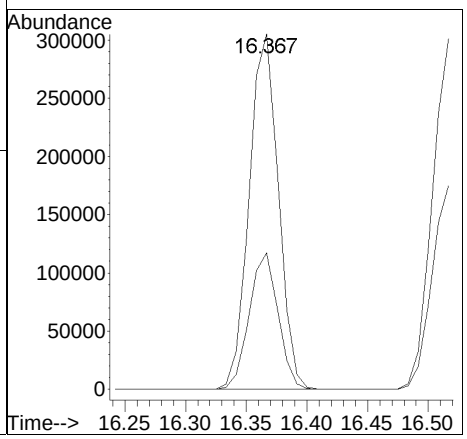


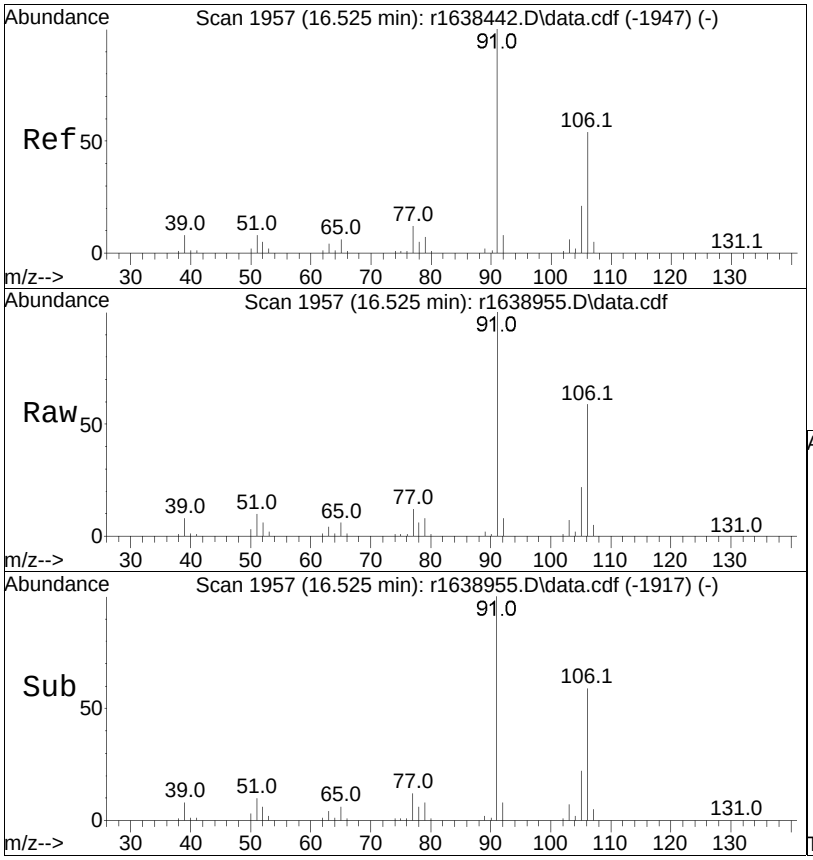


#81
ethylbenzene
Concen: 8.90 ppbV
RT: 16.367 min Scan# 1938
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 91 Resp: 510242

Ion	Ratio	Lower	Upper
91	100		
106	38.4	27.4	41.2

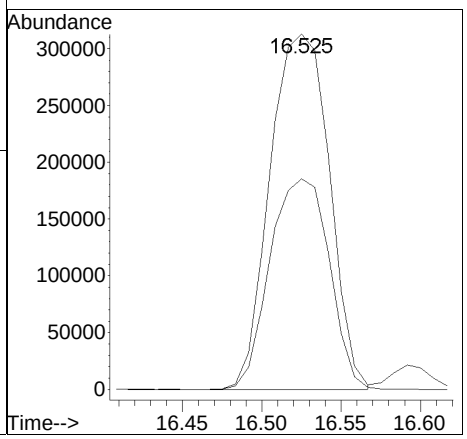


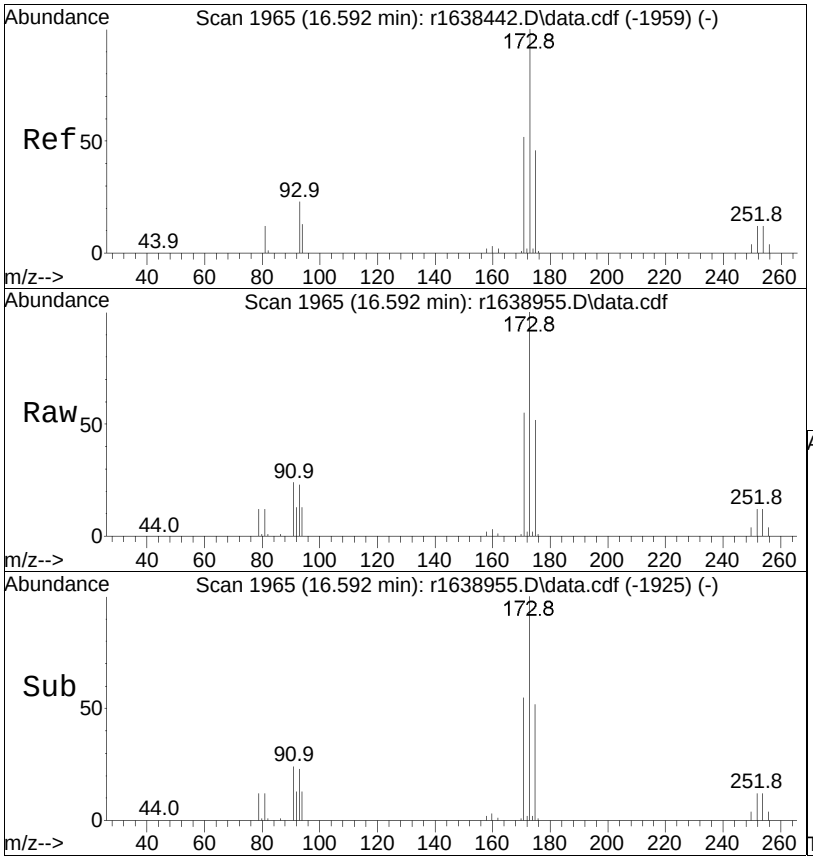


#83
m+p-xylene
Concen: 18.07 ppbV
RT: 16.525 min Scan# 1957
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 91 Resp: 813969

Ion	Ratio	Lower	Upper
91	100		
106	59.2	43.0	64.4

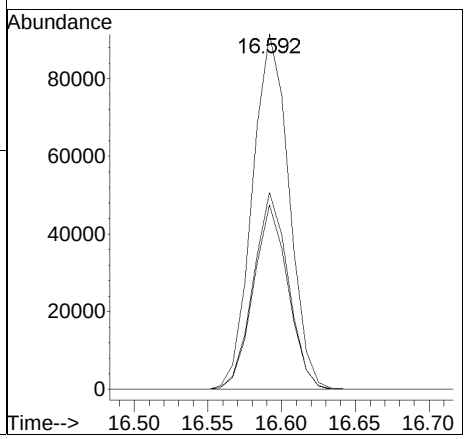


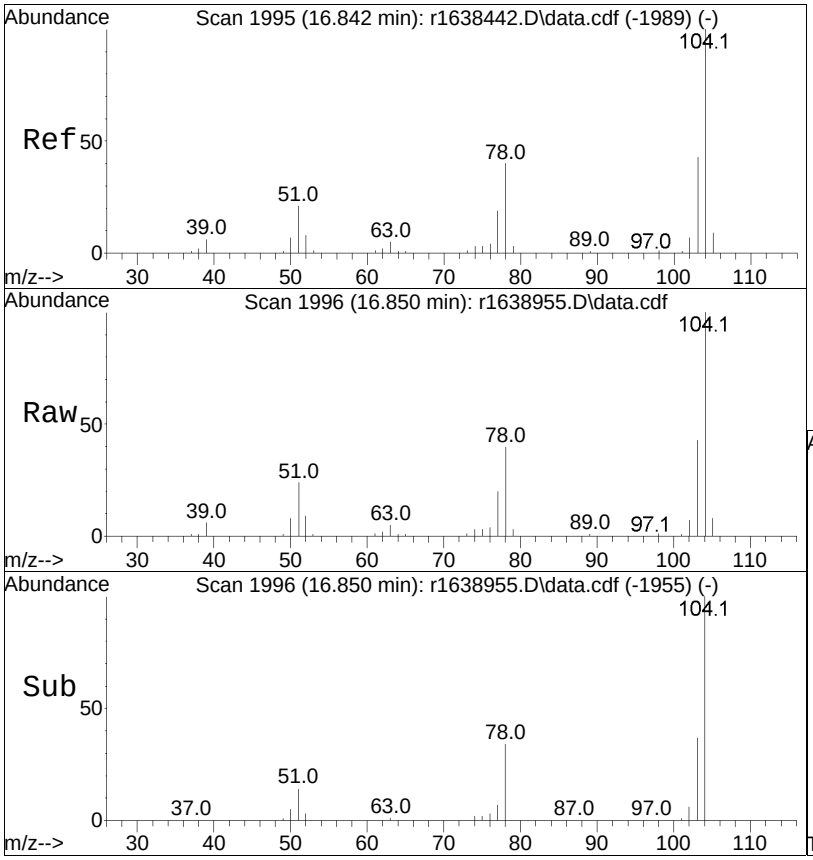


#84
bromoform
Concen: 10.59 ppbV
RT: 16.592 min Scan# 1965
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:173 Resp: 158611

Ion	Ratio	Lower	Upper
173	100		
175	51.9	36.5	54.7
171	55.4	41.8	62.8

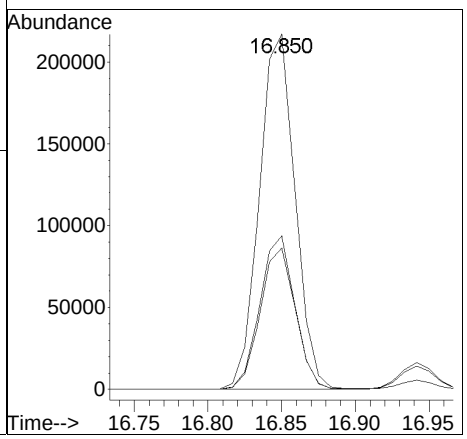


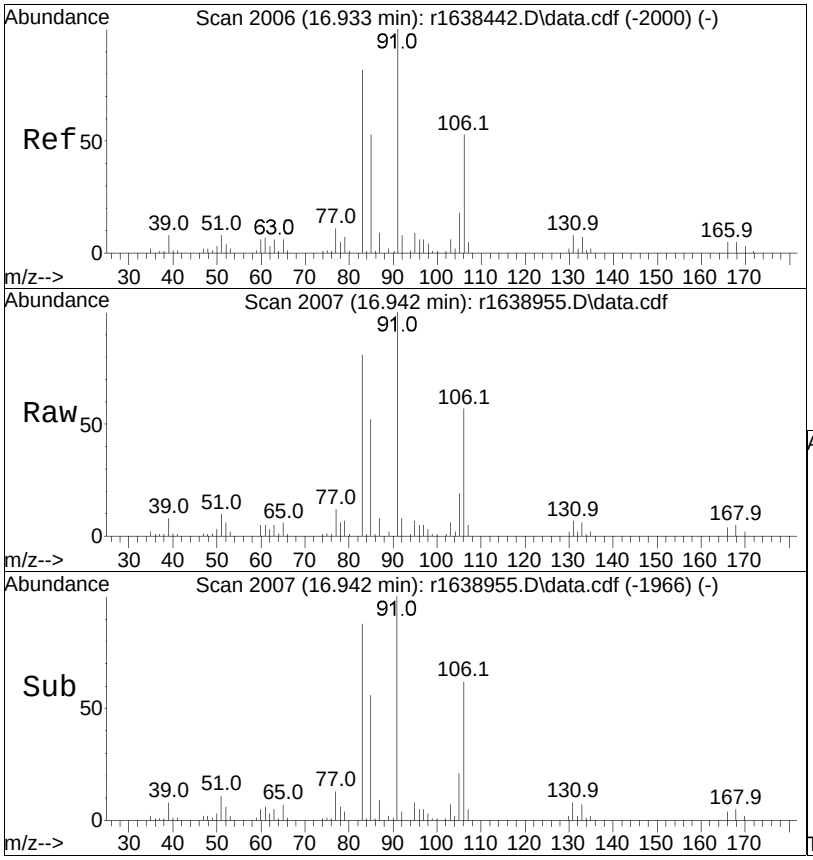


#85
styrene
Concen: 9.76 ppbV
RT: 16.850 min Scan# 1996
Delta R.T. 0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:104 Resp: 365922

Ion	Ratio	Lower	Upper
104	100		
103	43.2	34.0	51.0
78	39.8	31.7	47.5

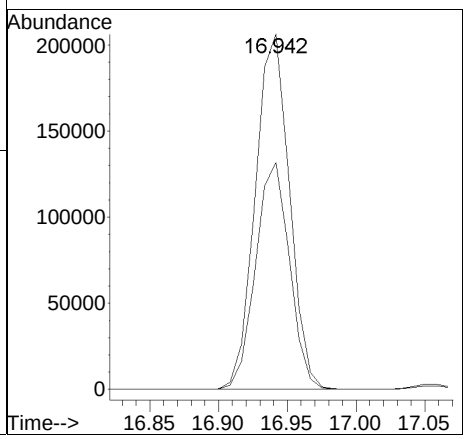


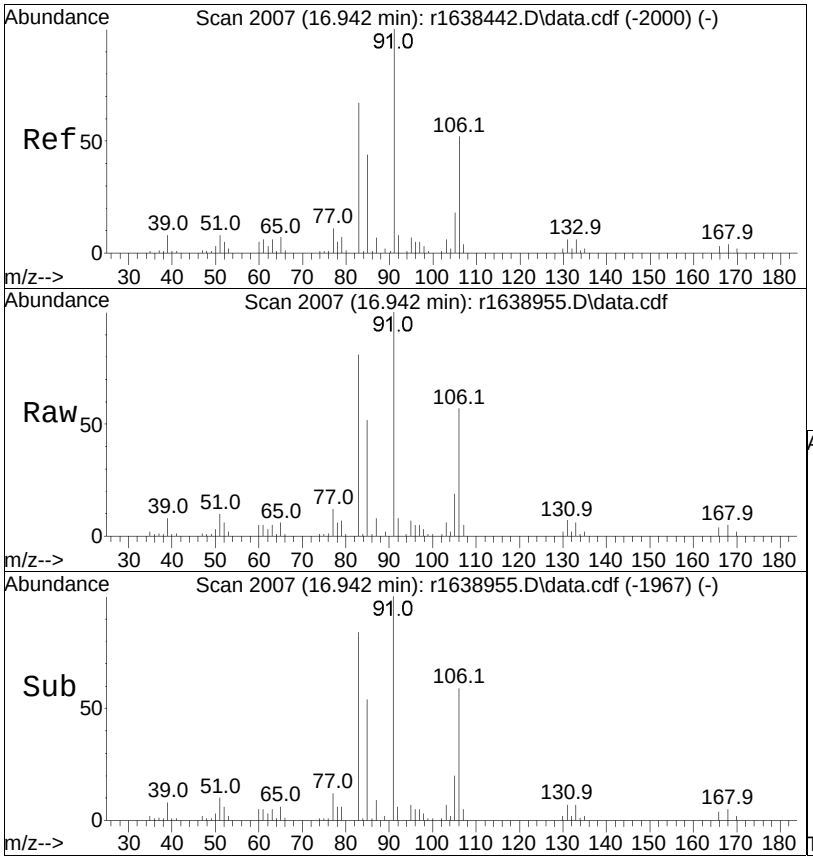


#86
1,1,2,2-tetrachloroethane
Concen: 10.53 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.008 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 83 Resp: 356555

Ion	Ratio	Lower	Upper
83	100		
85	63.9	52.0	78.0

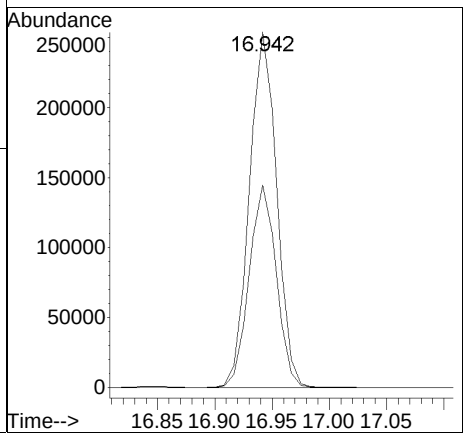


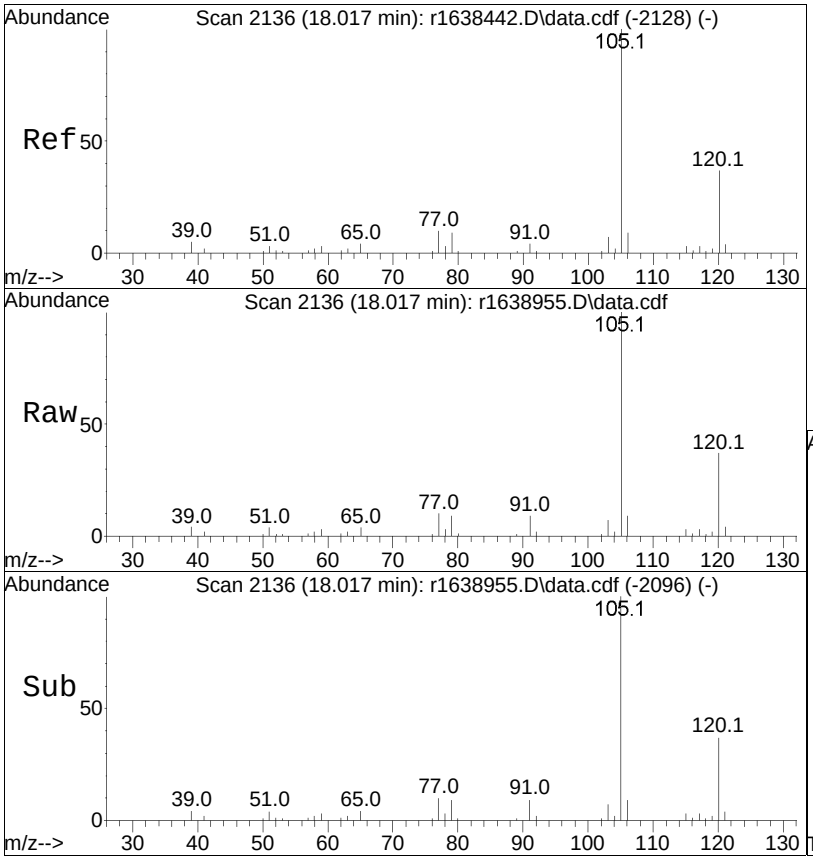


#87
o-xylene
Concen: 9.34 ppbV
RT: 16.942 min Scan# 2007
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 91 Resp: 420171

Ion	Ratio	Lower	Upper
91	100		
106	57.0	41.7	62.5

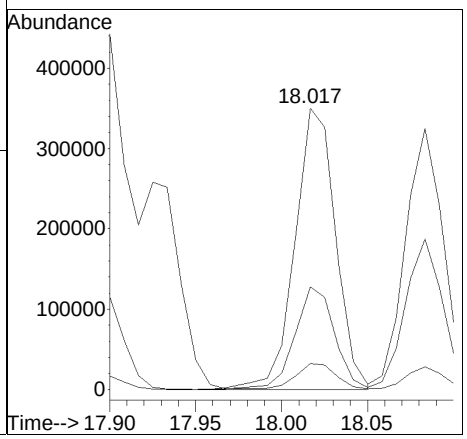


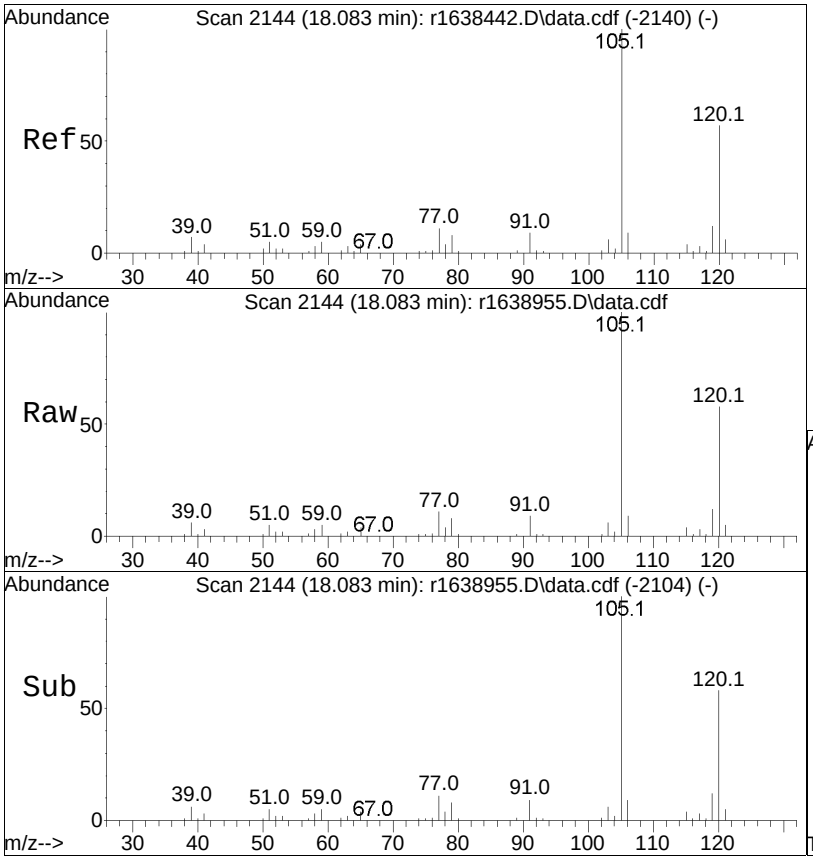


#96
4-ethyl toluene
Concen: 9.27 ppbV
RT: 18.017 min Scan# 2136
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:105 Resp: 575121

Ion	Ratio	Lower	Upper
105	100		
120	36.5	29.7	44.5
91	9.2	7.9	11.9

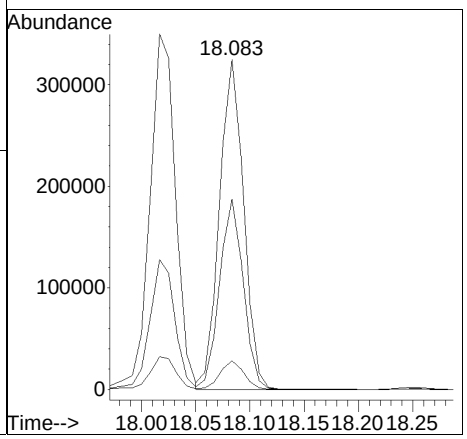


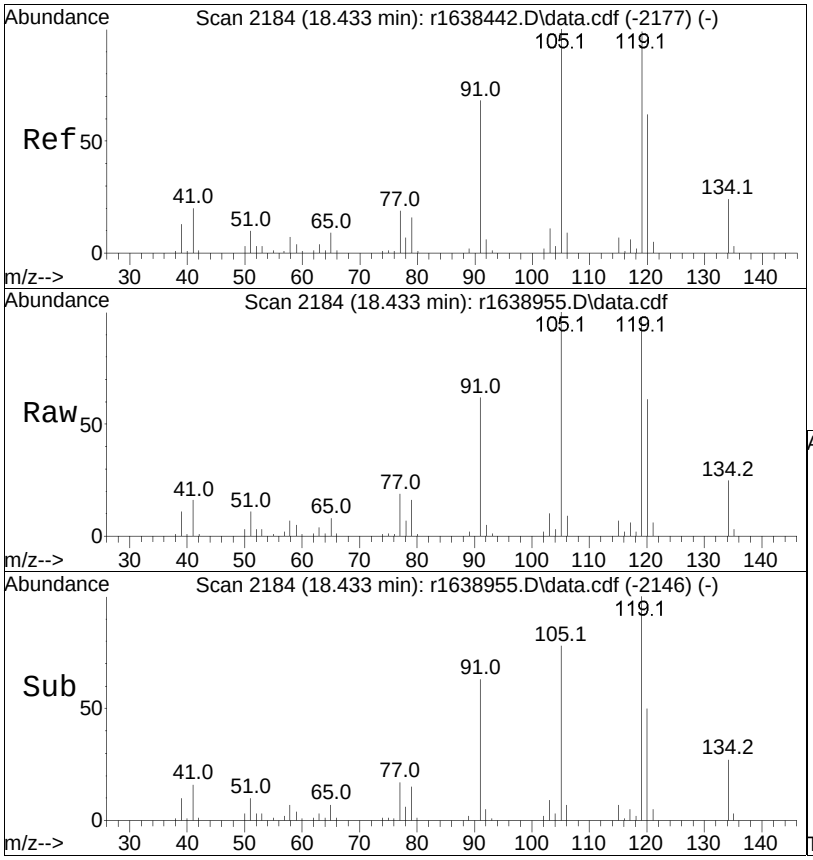


#97
1,3,5-trimethylbenzene
Concen: 9.43 ppbV
RT: 18.083 min Scan# 2144
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:105 Resp: 504008

Ion	Ratio	Lower	Upper
105	100		
120	57.7	45.4	68.2
91	8.7	7.5	11.3

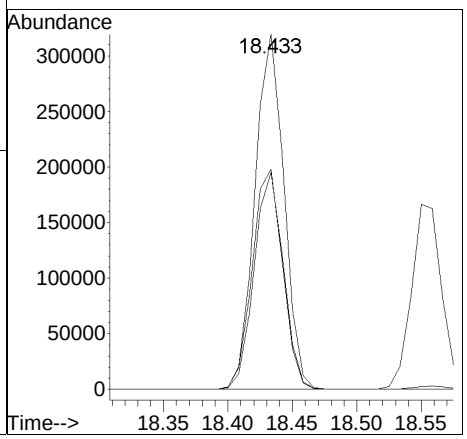


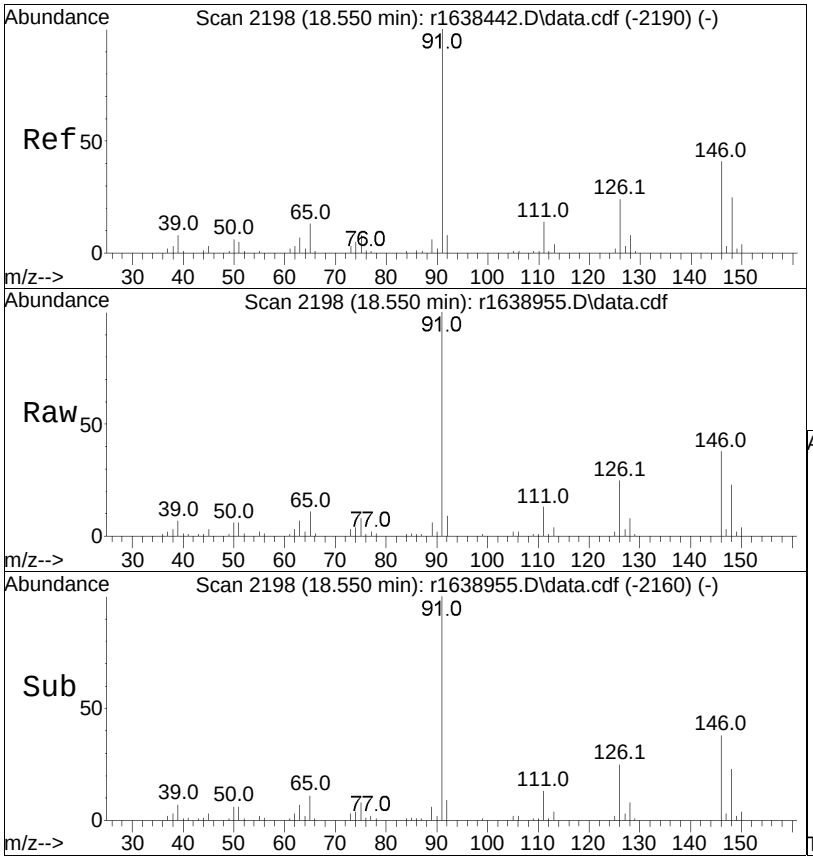


#99
1,2,4-trimethylbenzene
Concen: 9.63 ppbV
RT: 18.433 min Scan# 2184
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:105 Resp: 501713

Ion	Ratio	Lower	Upper
105	100		
120	61.0	49.9	74.9
91	62.0	54.0	81.0

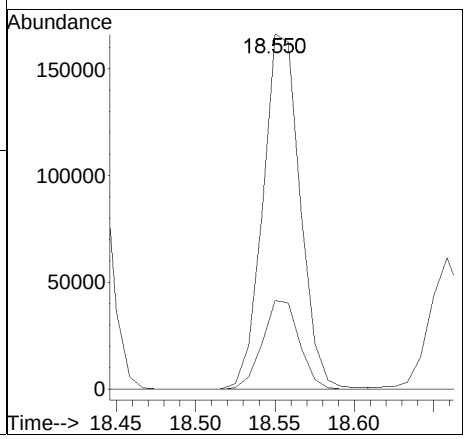


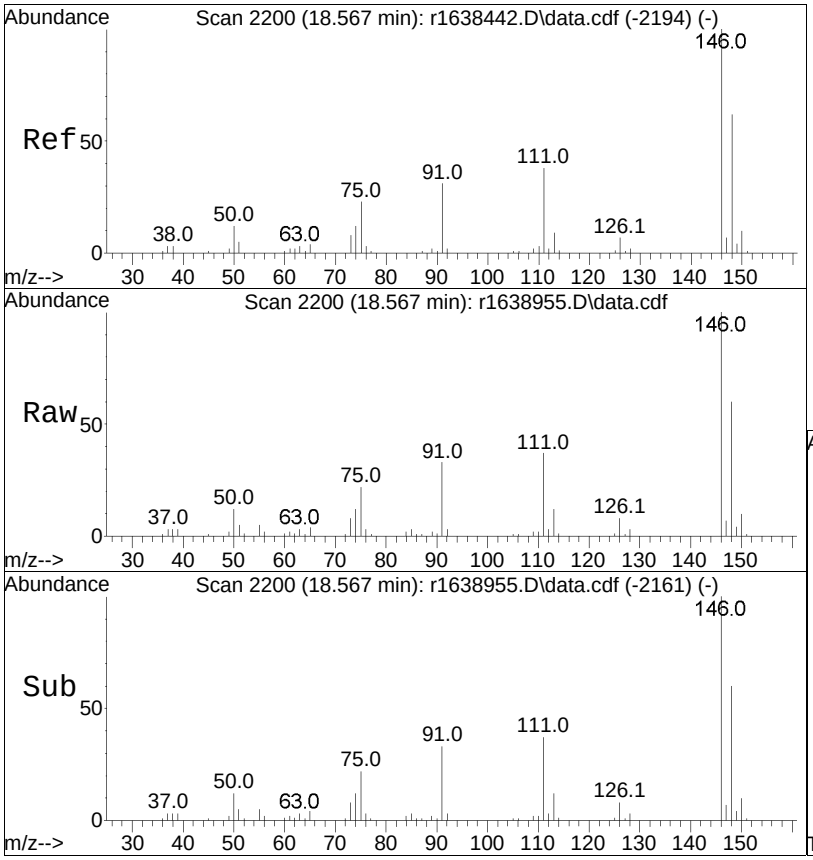


#101
Benzyl Chloride
Concen: 10.04 ppbV
RT: 18.550 min Scan# 2198
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion: 91 Resp: 272079

Ion	Ratio	Lower	Upper
91	100		
126	25.0	19.4	29.2

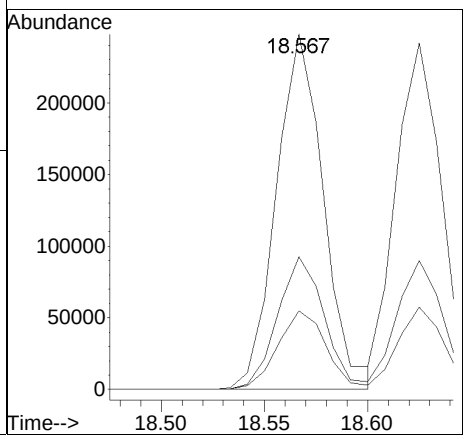


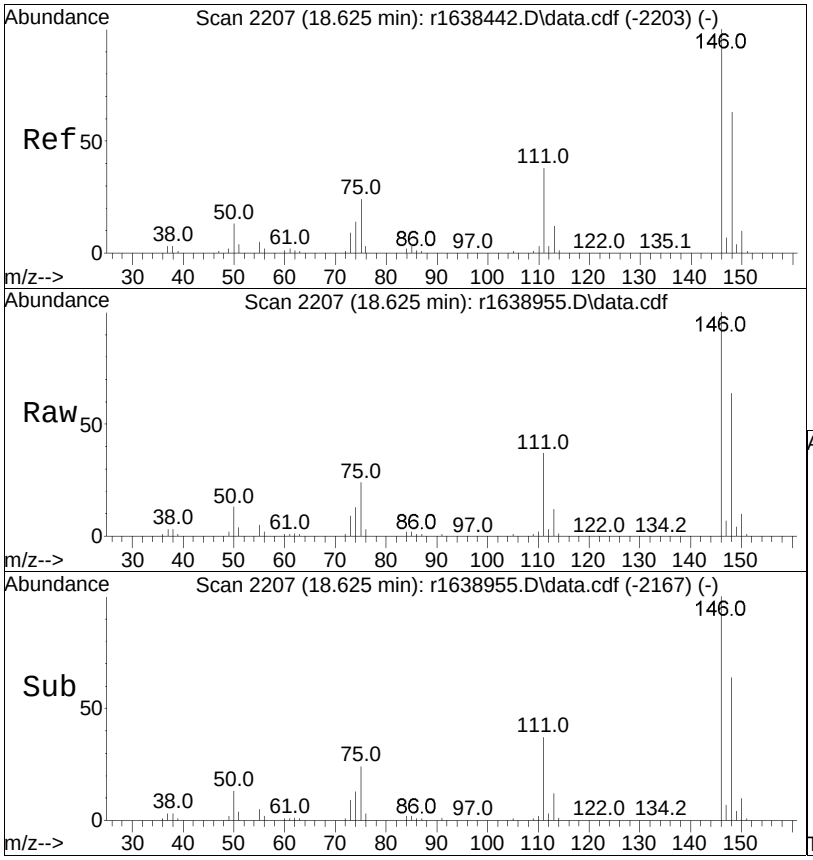


#102
1,3-dichlorobenzene
Concen: 9.90 ppbV
RT: 18.567 min Scan# 2200
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:146 Resp: 394463

Ion	Ratio	Lower	Upper
146	100		
111	37.3	30.6	45.8
75	22.1	18.5	27.7

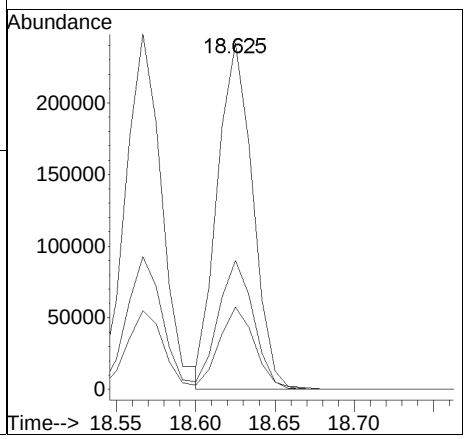


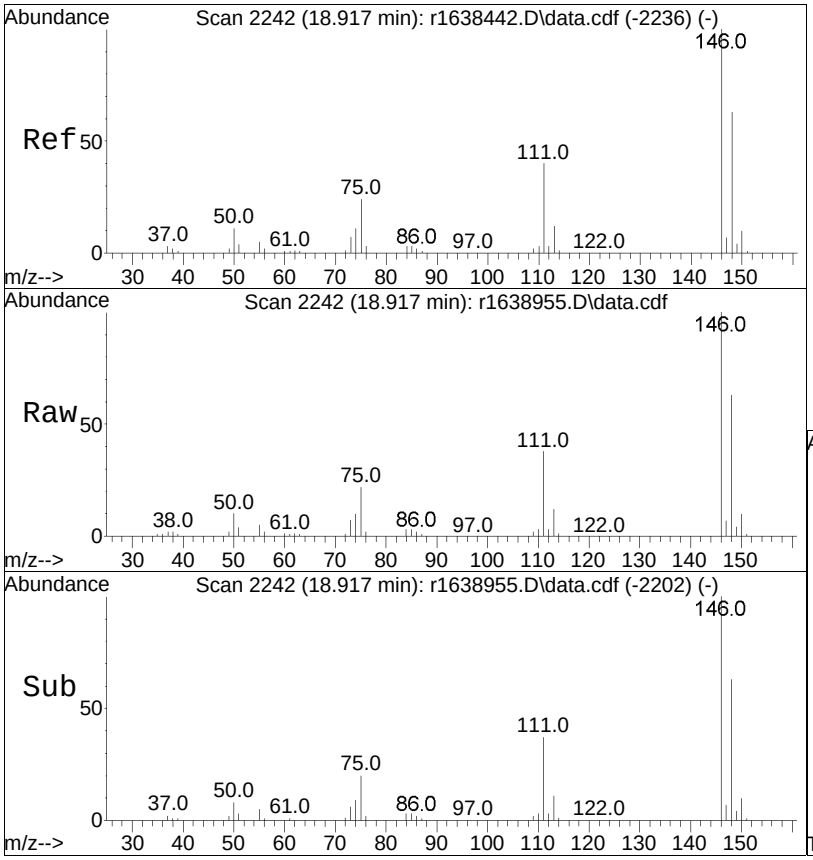


#103
1,4-dichlorobenzene
Concen: 9.37 ppbV
RT: 18.625 min Scan# 2207
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:146 Resp: 374694

Ion	Ratio	Lower	Upper
146	100		
111	37.2	30.7	46.1
75	23.7	19.7	29.5

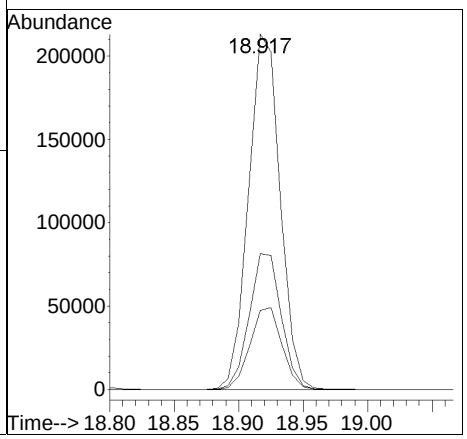


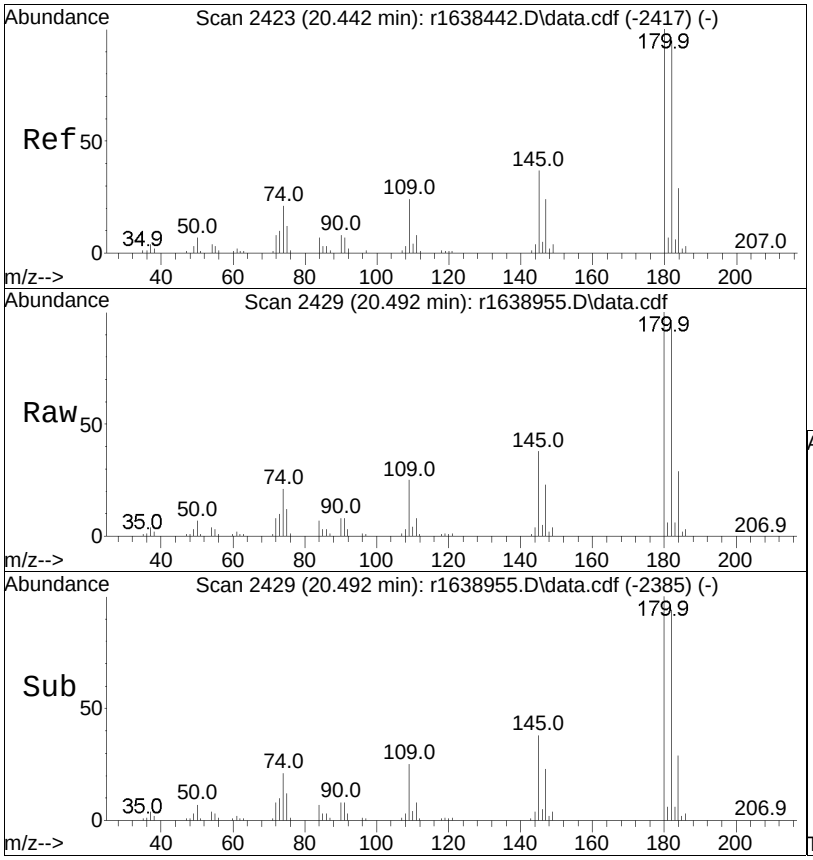


#107
1,2-dichlorobenzene
Concen: 9.46 ppbV
RT: 18.917 min Scan# 2242
Delta R.T. 0.000 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:146 Resp: 363726

Ion	Ratio	Lower	Upper
146	100		
111	38.2	31.6	47.4
75	22.2	19.1	28.7

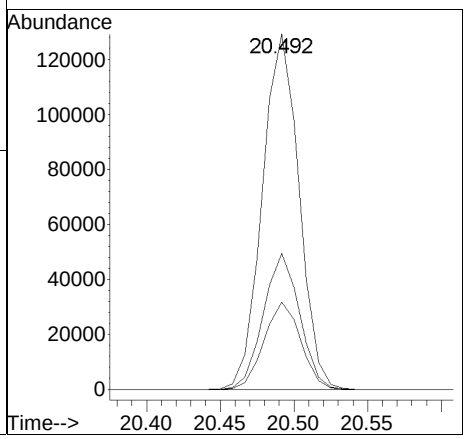


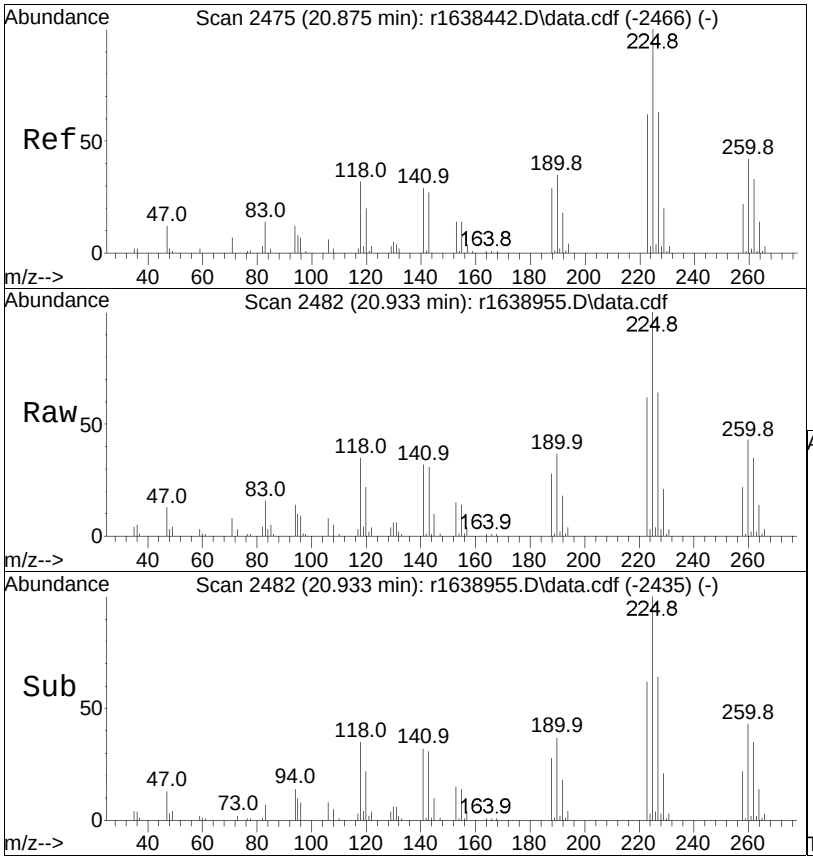


#115
1,2,4-trichlorobenzene
Concen: 8.78 ppbV
RT: 20.492 min Scan# 2429
Delta R.T. 0.050 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:180 Resp: 223672

Ion	Ratio	Lower	Upper
180	100		
145	38.3	29.8	44.6
109	24.6	19.2	28.8

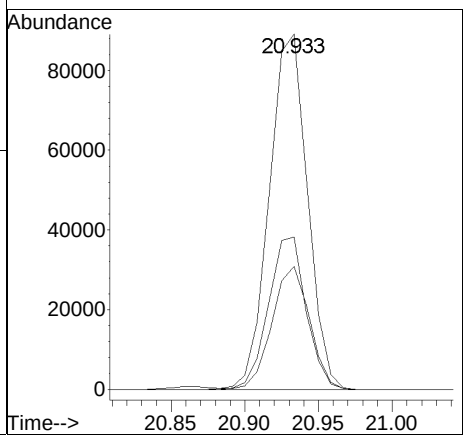




#119
hexachlorobutadiene
Concen: 8.22 ppbV
RT: 20.933 min Scan# 2482
Delta R.T. 0.058 min
Lab File: r1638955.D
Acq: 22 Aug 2023 12:37 PM

Tgt Ion:225 Resp: 160634

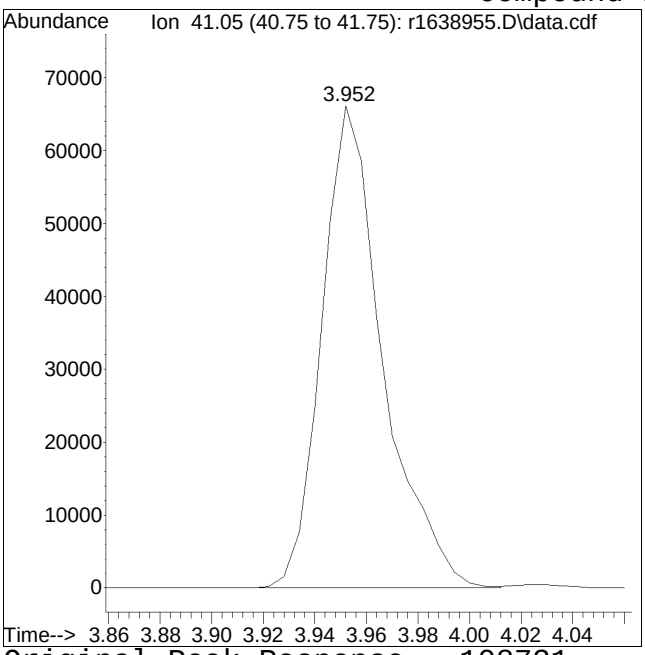
Ion	Ratio	Lower	Upper
225	100		
260	42.9	33.7	50.5
118	34.6	26.2	39.2



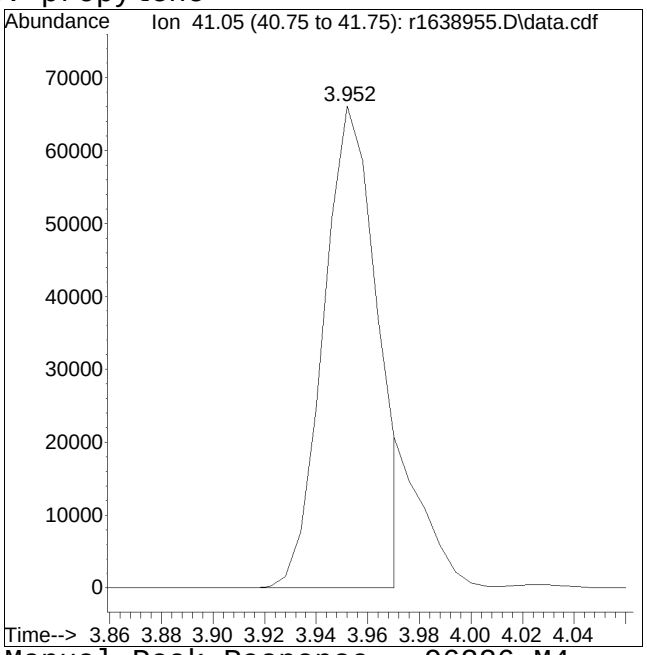
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638955.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:2: 7 Instrument :
Sample : WG1818792-3,3,250,250 Quant Date : 8/22/2023 1:20 pm

Compound #3: propylene



Original Peak Response = 108731



Manual Peak Response = 96226 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638965.D
Acq On : 22 Aug 2023 9:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-5,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:32:01 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	206933	10.000	ppbV	0.00
Standard Area = 214255			Recovery =		96.58%	
43) 1,4-difluorobenzene	11.307	114	614216	10.000	ppbV	0.00
Standard Area = 667571			Recovery =		92.01%	
67) chlorobenzene-D5	15.992	54	78004	10.000	ppbV	0.00
Standard Area = 82563			Recovery =		94.48%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	4.030	85	6846	0.446	ppbV	99
6) chloromethane	4.192	50	3826	0.442	ppbV	91
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.158	31	541397	99.200	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.677	43	78209M6	7.102	ppbV	
21) trichlorofluoromethane	5.870	101	2055	0.190	ppbV	99
22) isopropyl alcohol	5.950	45	47582	2.988	ppbV #	97
27) tertiary butyl alcohol	6.612	59	1638	0.106	ppbV #	78
28) methylene chloride	6.702	49	4240	0.359	ppbV	93
29) 3-chloropropene	6.708		0	N.D.		
30) carbon disulfide	7.014		0	N.D.		
31) Freon 113	7.008	101	662	0.034	ppbV #	79
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.	d	
36) 2-butanone	8.417	43	7959	0.305	ppbV #	89
38) Ethyl Acetate	9.175	61	1967	0.522	ppbV	69
39) chloroform	9.250		0	N.D.		
40) Tetrahydrofuran	9.692	42	9346	0.564	ppbV	93
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.167	57	30794	1.906	ppbV #	1
50) benzene	10.893	78	5228	0.157	ppbV	99
53) cyclohexane	11.213	56	772	0.045	ppbV	87
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638965.D
Acq On : 22 Aug 2023 9:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-5,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:32:01 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822T\r1638952.D
Sub List : TO15-NY-7-SIM - .

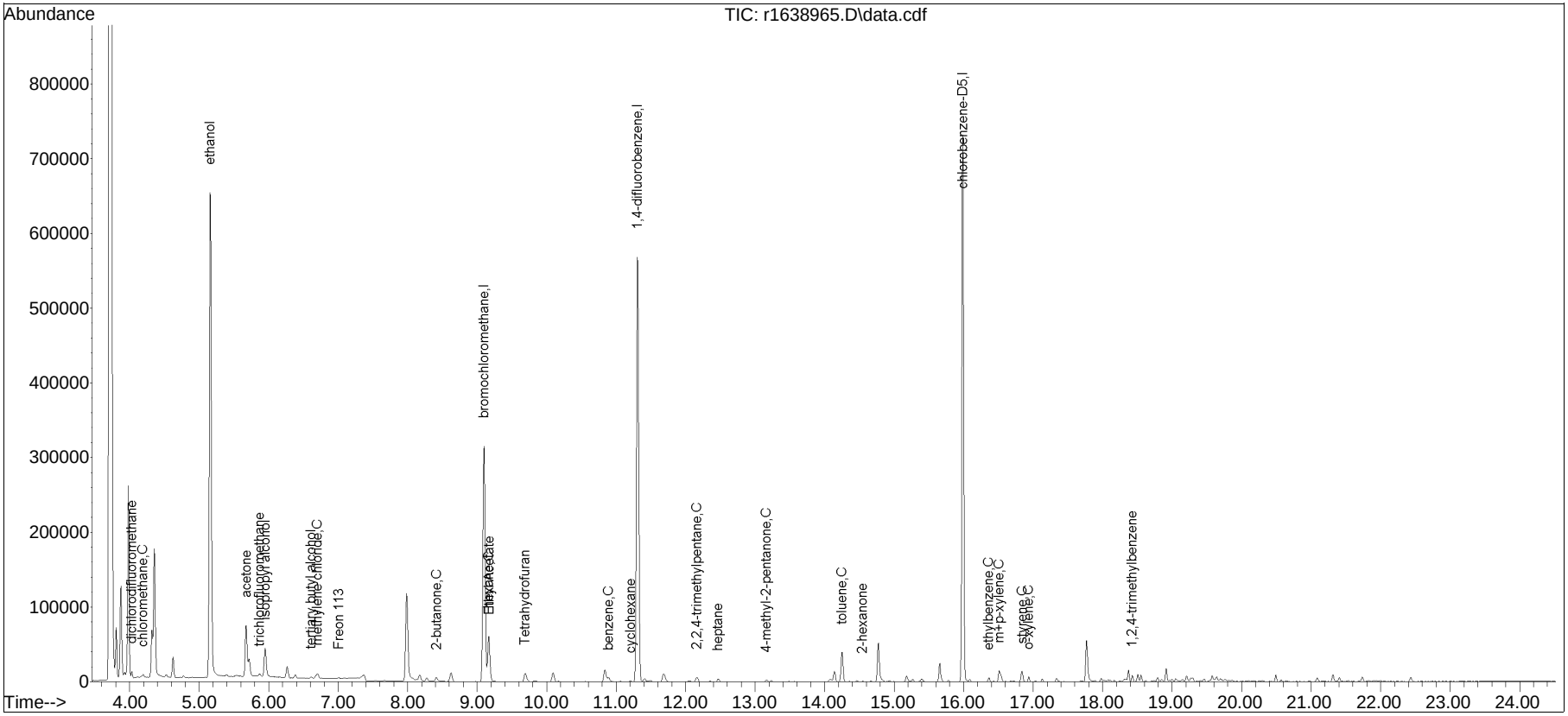
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.160	57	5392	0.102	ppbV #	95
62) heptane	12.467	43	1950	0.078	ppbV #	79
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.158	43	2220	0.077	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.250	91	31292	0.713	ppbV	100
72) 2-hexanone	14.542	43	1076	0.038	ppbV #	91
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.358	91	4448	0.081	ppbV	89
83) m+p-xylene	16.508	91	12168	0.281	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	16.842	104	4719	0.131	ppbV	96
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.933	91	4025	0.093	ppbV	100
96) 4-ethyl toluene	18.017		0	N.D.		
97) 1,3,5-trimethylbenzene	18.075		0	N.D.		
99) 1,2,4-trimethylbenzene	18.425	105	4368	0.087	ppbV #	58
101) Benzyl Chloride	18.425		0	N.D.		
102) 1,3-dichlorobenzene	18.625		0	N.D.		
103) 1,4-dichlorobenzene	18.625		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

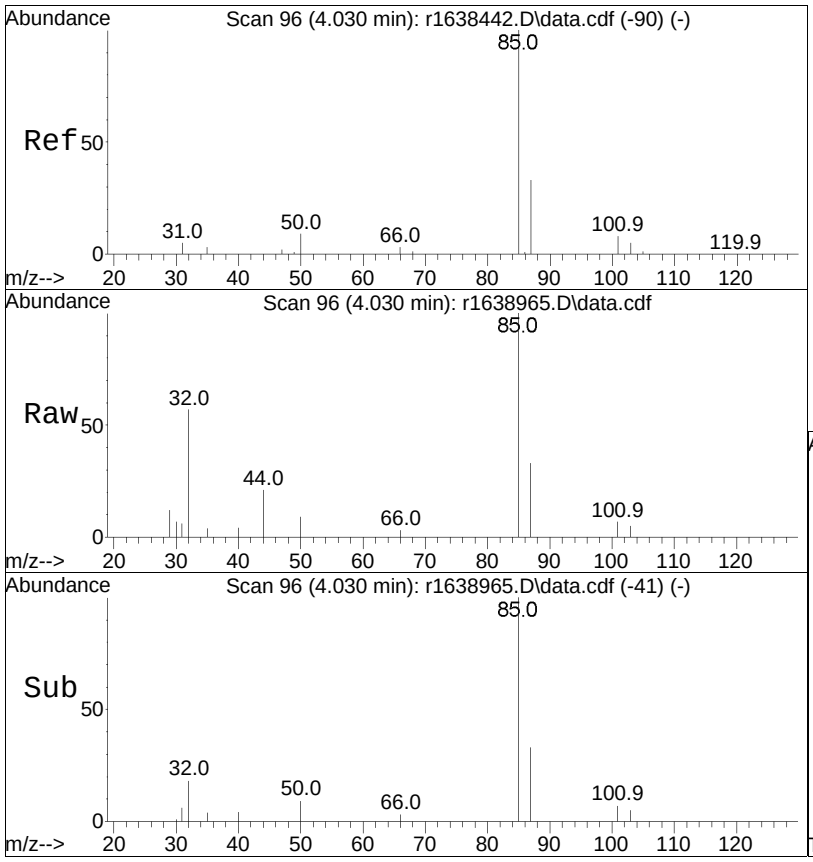
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab16\2023\08\0822T\r1638952.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822T\
Data File : r1638965.D
Acq On : 22 Aug 2023 9:09 PM
Operator : AIRLAB16:APR
Sample : WG1818792-5,3,250,250
Misc : WG1818792,ICAL20199
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:32:01 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822T\TFS16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 07:46:16 2023
Response via : Initial Calibration

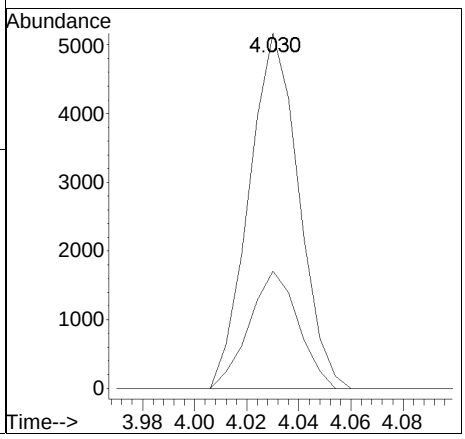


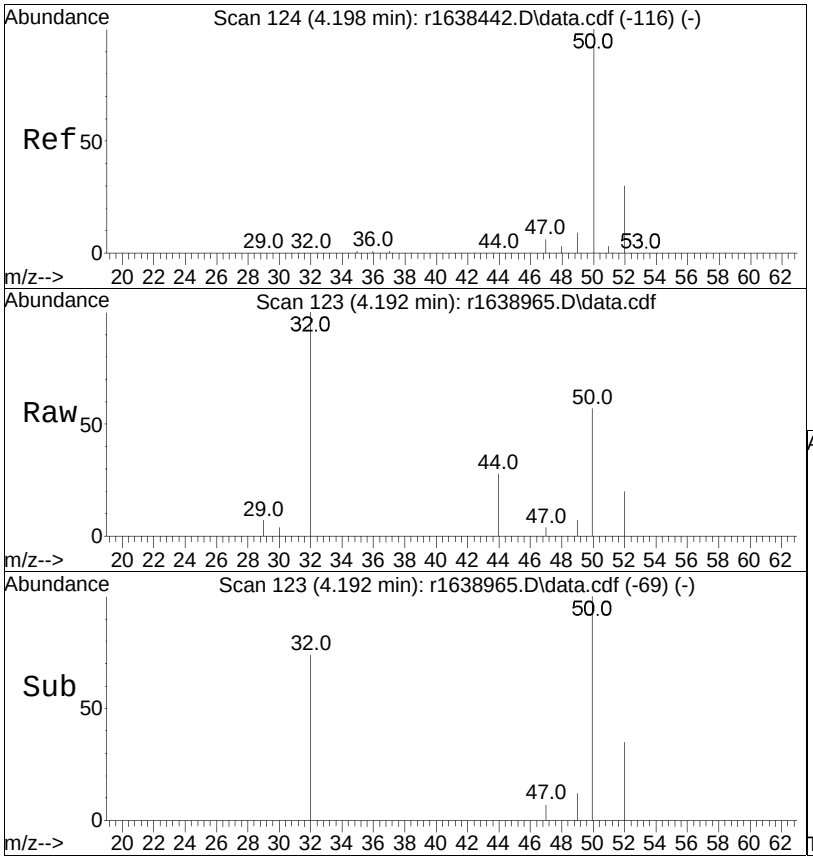


#5
dichlorodifluoromethane
Concen: 0.45 ppbV
RT: 4.030 min Scan# 96
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 85 Resp: 6846

Ion	Ratio	Lower	Upper
85	100		
87	33.0	26.2	39.2

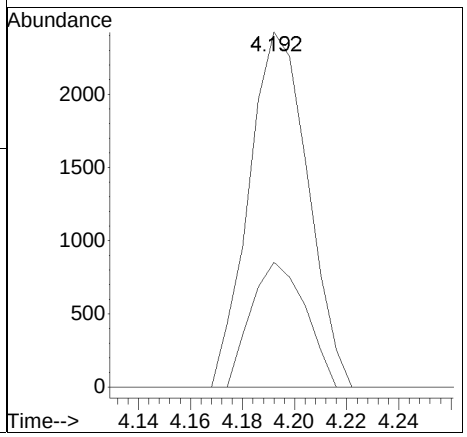


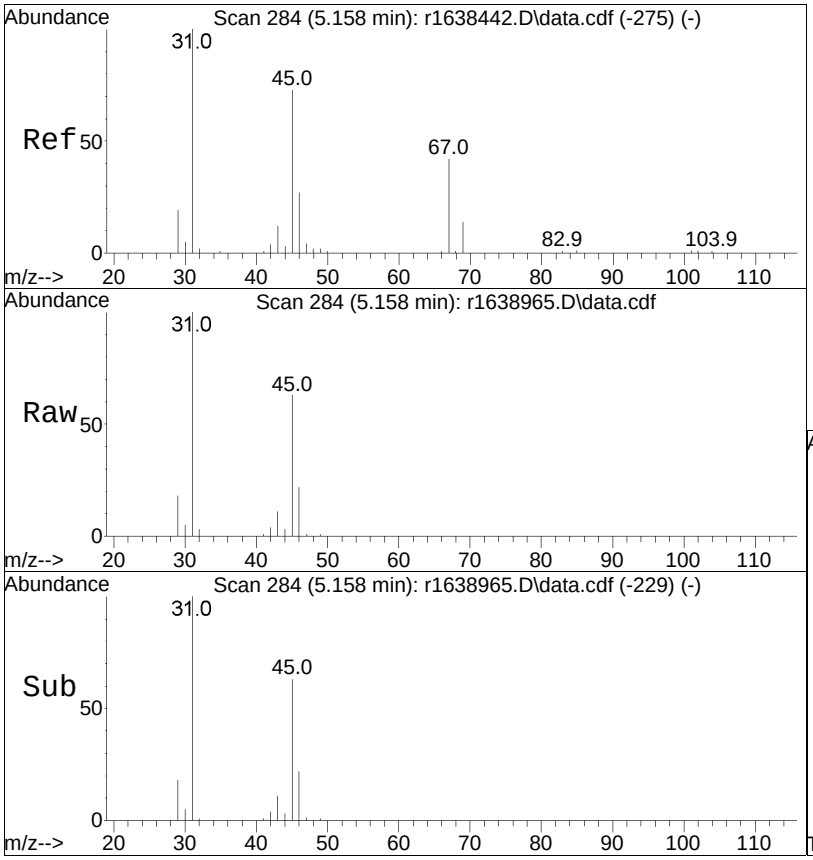


#6
chloromethane
Concen: 0.44 ppbV
RT: 4.192 min Scan# 123
Delta R.T. -0.006 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 50 Resp: 3826

Ion	Ratio	Lower	Upper
50	100		
52	35.2	24.3	36.5

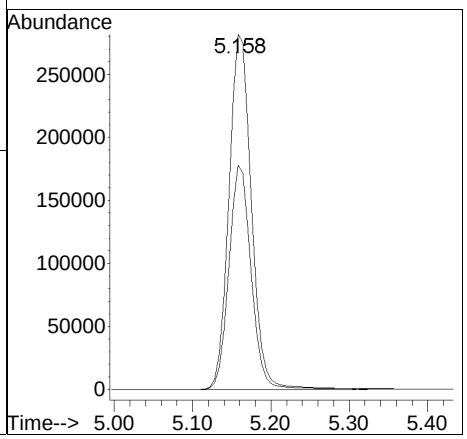


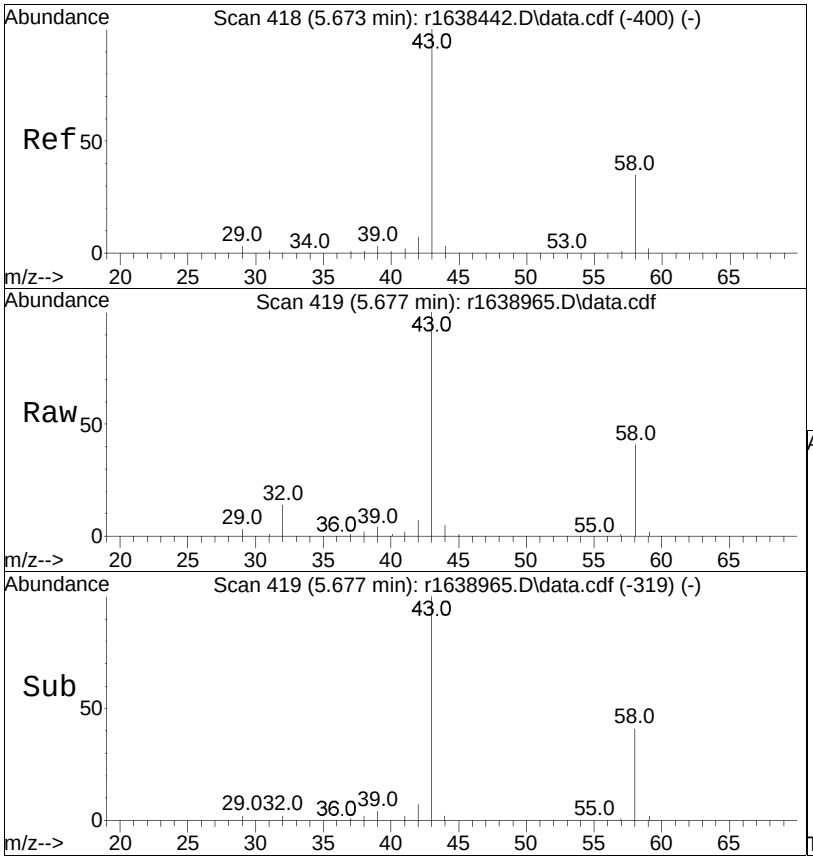


#15
ethanol
Concen: 99.20 ppbV
RT: 5.158 min Scan# 284
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 31 Resp: 541397

Ion	Ratio	Lower	Upper
31	100		
45	63.1	58.6	87.8

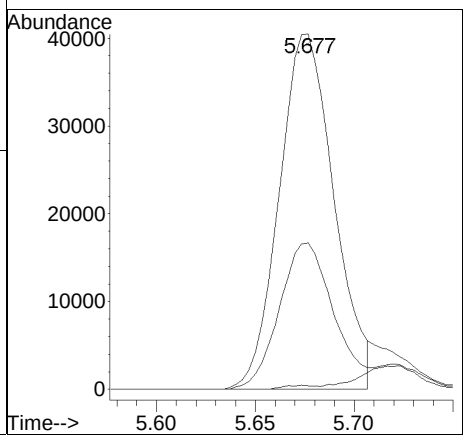


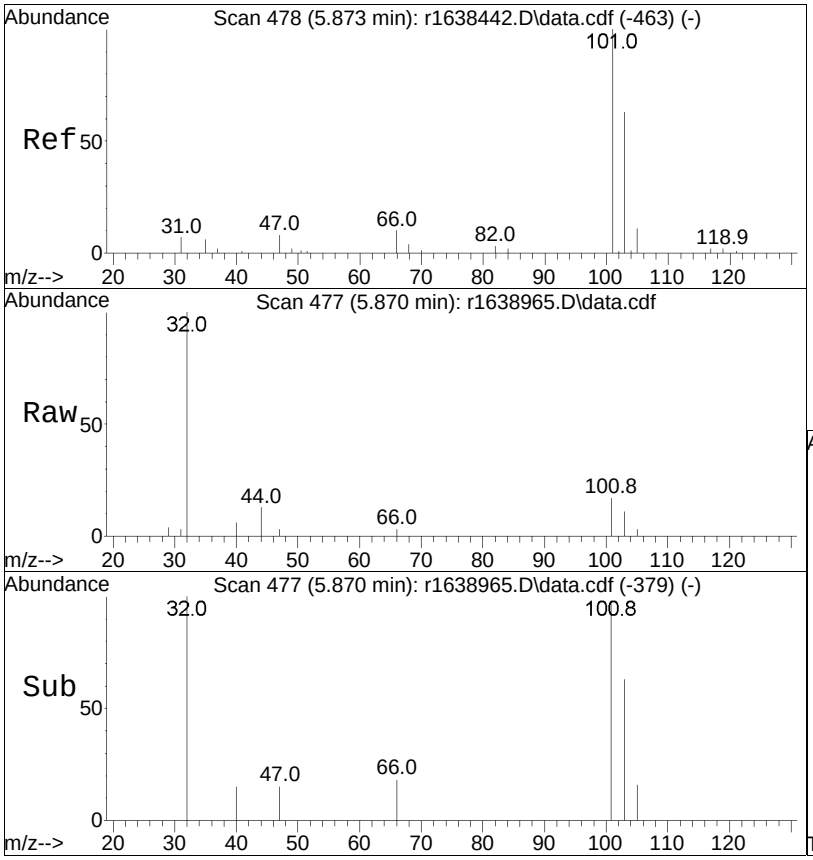


#19
acetone
Concen: 7.10 ppbV m
RT: 5.677 min Scan# 419
Delta R.T. 0.003 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 43 Resp: 78209

Ion	Ratio	Lower	Upper
43	100		
58	41.2	28.3	42.5
57	1.0	0.6	1.0#

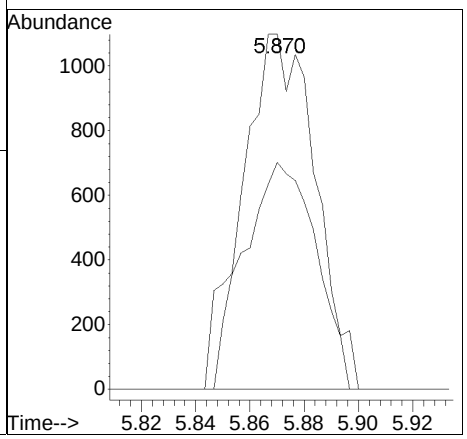


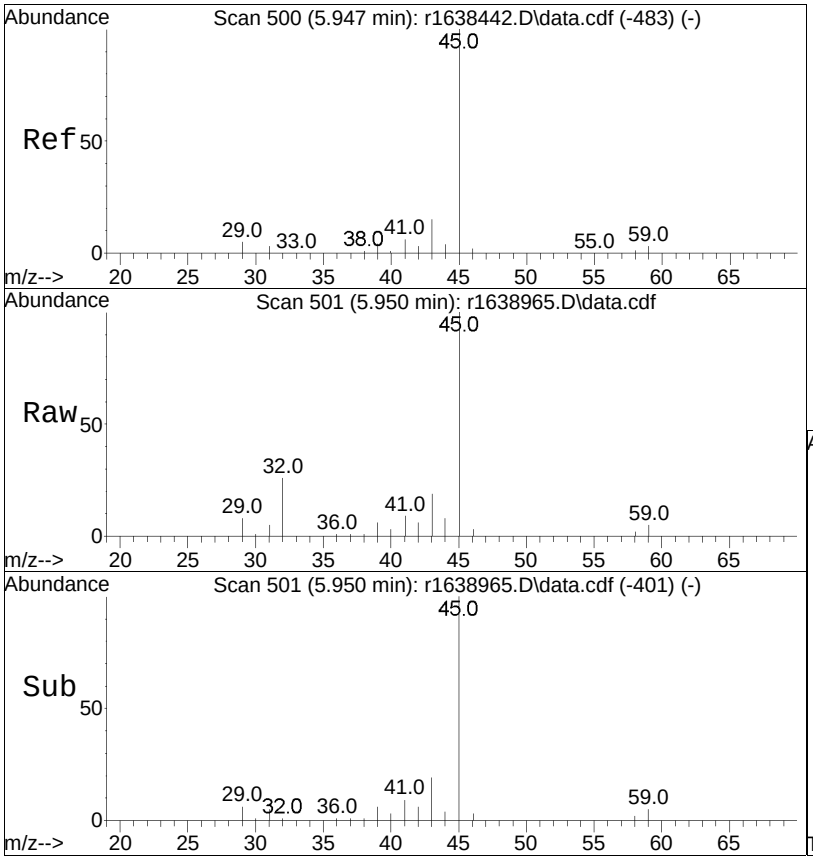


#21
trichlorofluoromethane
Concen: 0.19 ppbV
RT: 5.870 min Scan# 477
Delta R.T. -0.003 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:101 Resp: 2055

Ion	Ratio	Lower	Upper
101	100		
103	63.9	50.6	76.0

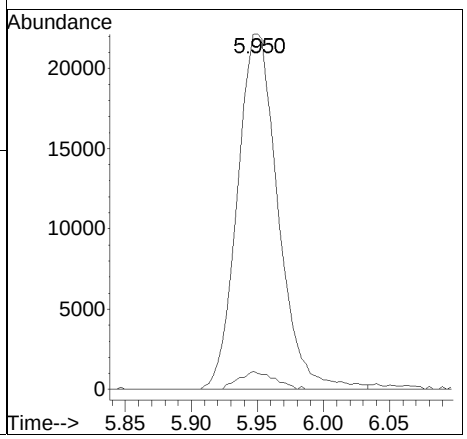


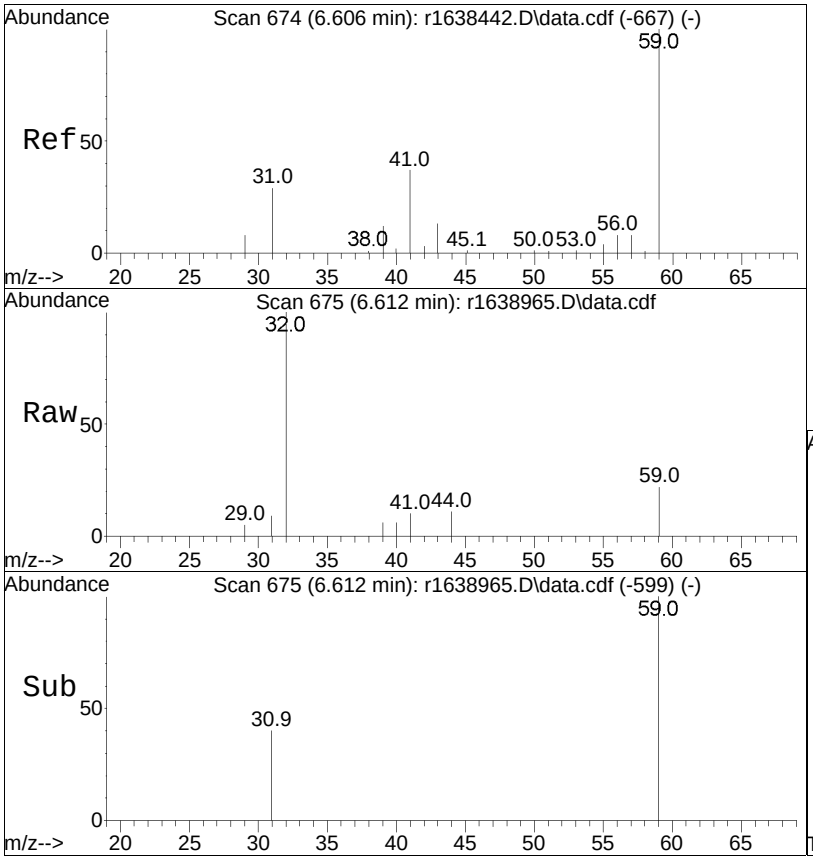


#22
isopropyl alcohol
Concen: 2.99 ppbV
RT: 5.950 min Scan# 501
Delta R.T. 0.003 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 45 Resp: 47582

Ion	Ratio	Lower	Upper
45	100		
59	4.6	2.8	4.2#

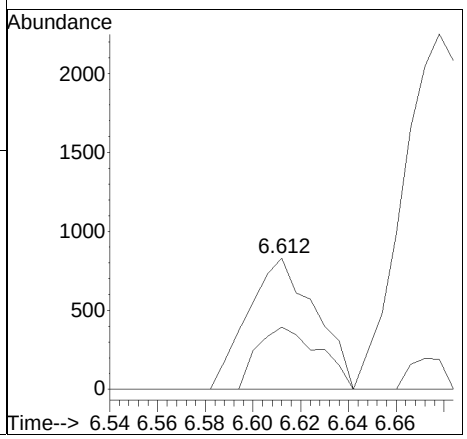


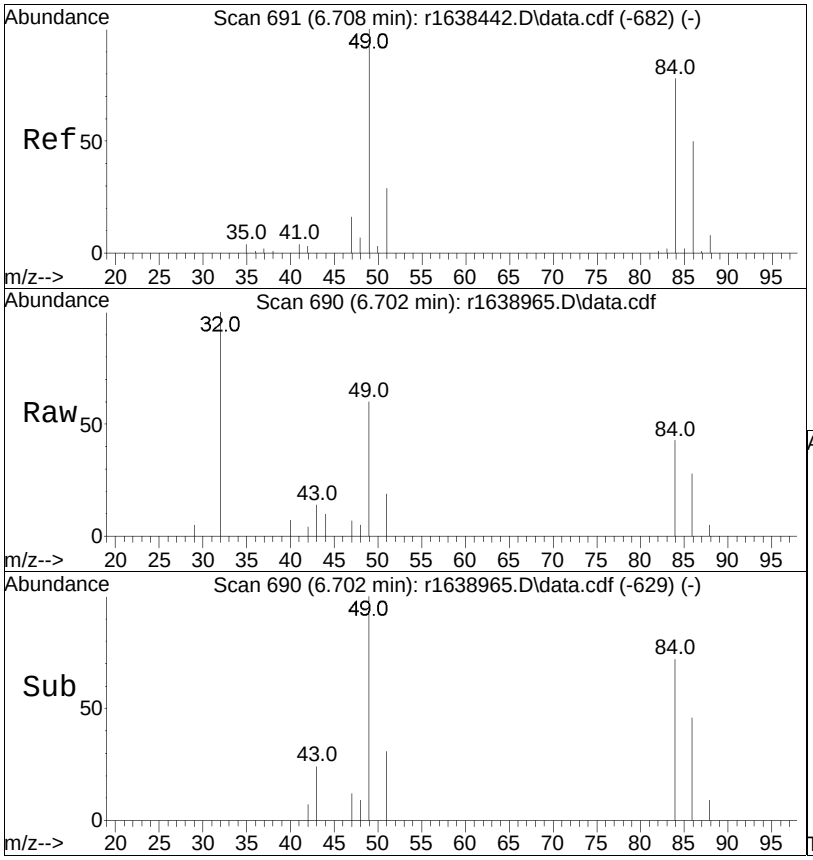


#27
tertiary butyl alcohol
Concen: 0.11 ppbV
RT: 6.612 min Scan# 675
Delta R.T. 0.006 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 59 Resp: 1638

Ion	Ratio	Lower	Upper
59	100		
41	47.4	29.3	43.9#
43	0.0	10.1	15.1#

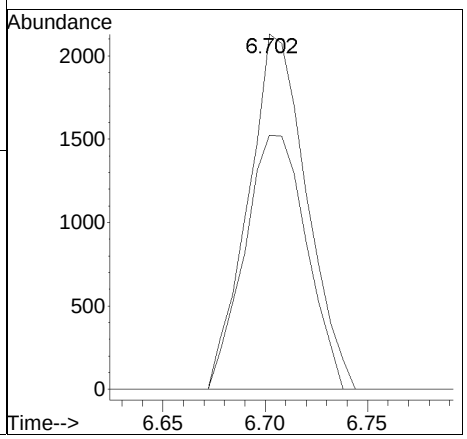


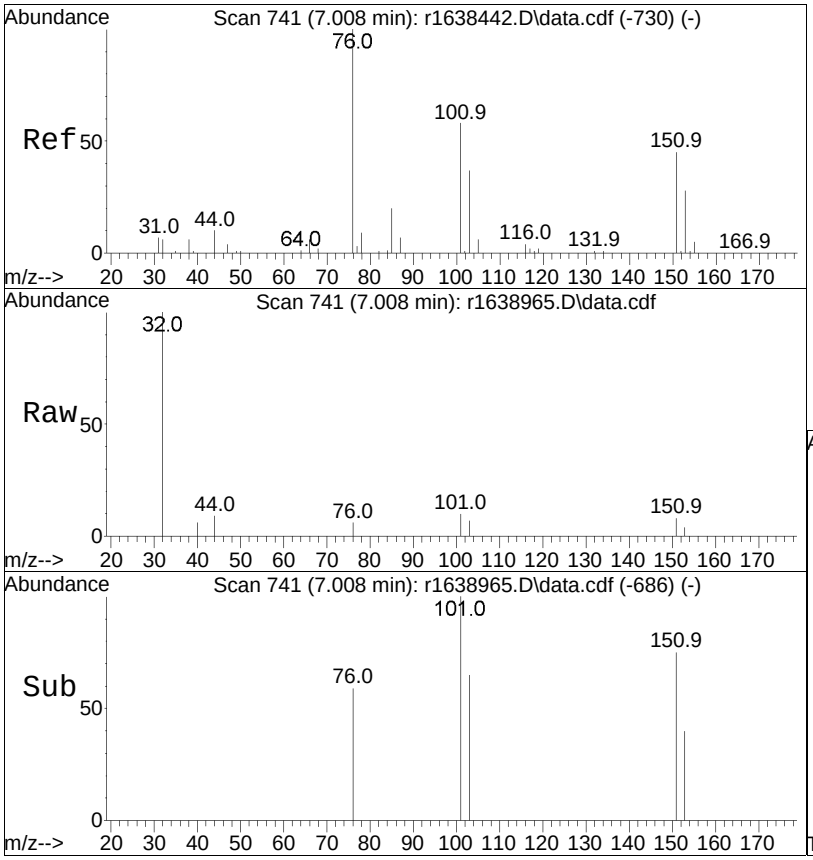


#28
methylene chloride
Concen: 0.36 ppbV
RT: 6.702 min Scan# 690
Delta R.T. -0.006 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 49 Resp: 4240

Ion	Ratio	Lower	Upper
49	100		
84	71.6	62.4	93.6

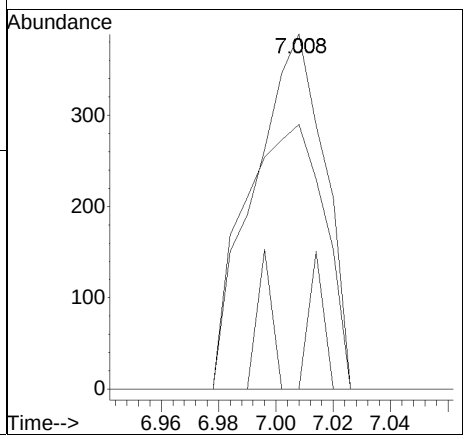


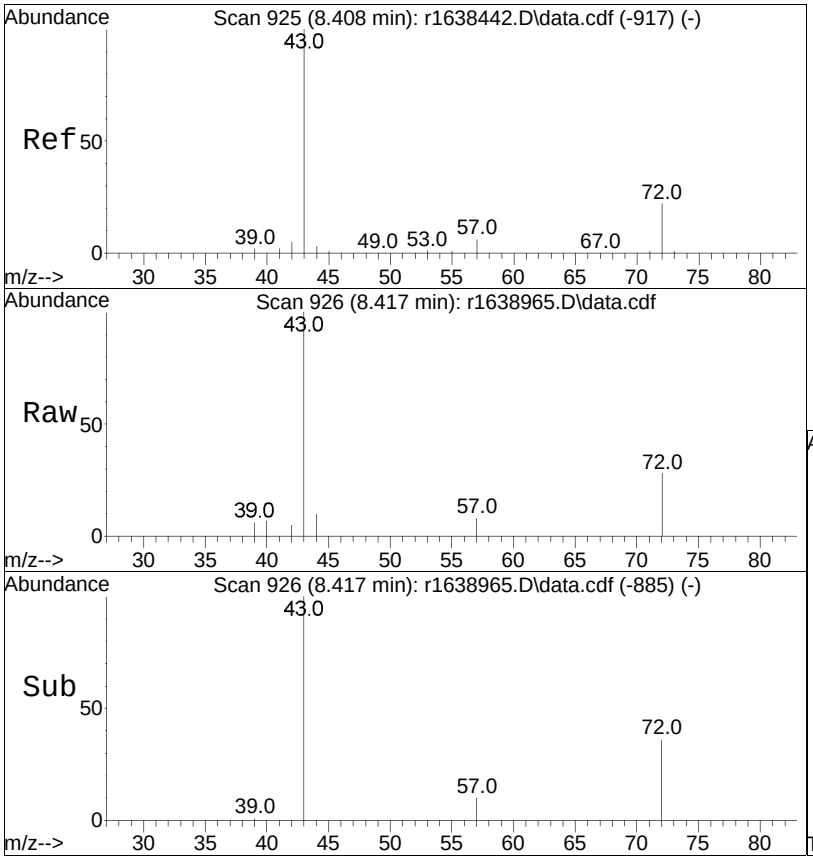


#31
Freon 113
Concen: 0.03 ppbV
RT: 7.008 min Scan# 741
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:101 Resp: 662

Ion	Ratio	Lower	Upper
101	100		
85	0.0	27.8	41.6#
151	74.6	62.2	93.4

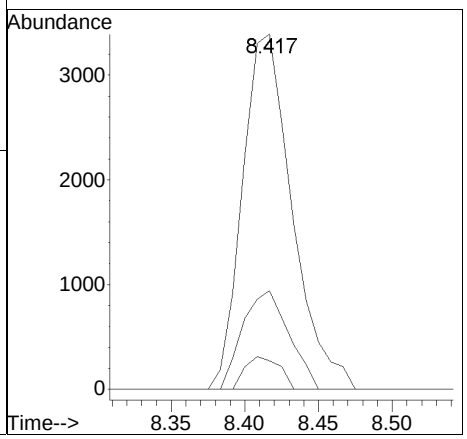


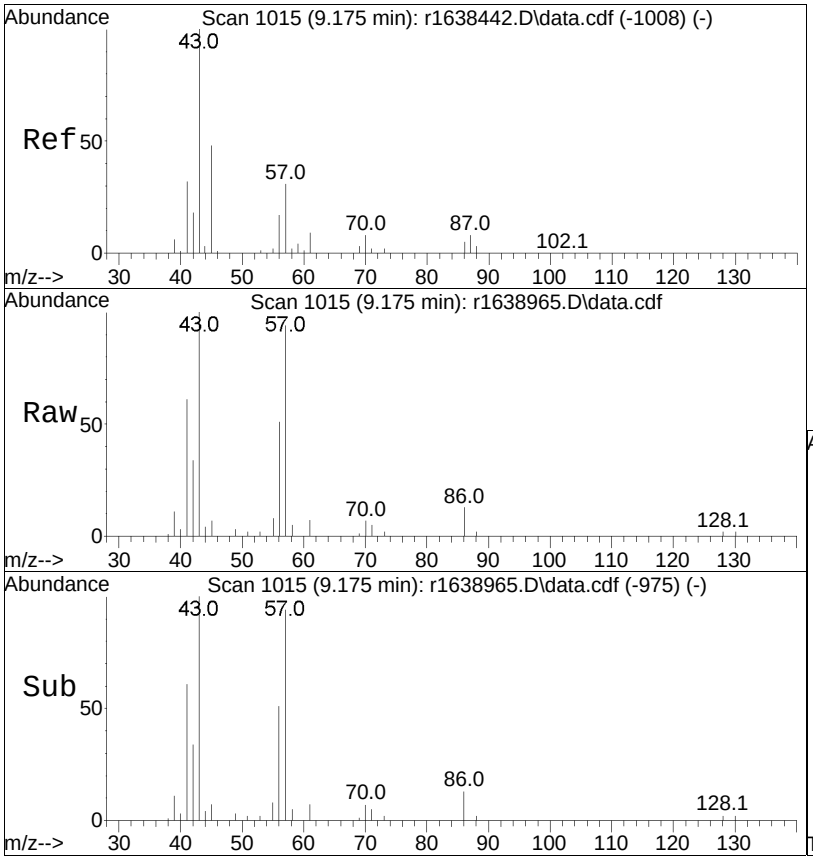


#36
2-butanone
Concen: 0.30 ppbV
RT: 8.417 min Scan# 926
Delta R.T. 0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 43 Resp: 7959

Ion	Ratio	Lower	Upper
43	100		
72	27.8	17.4	26.0#
57	8.0	4.8	7.2#

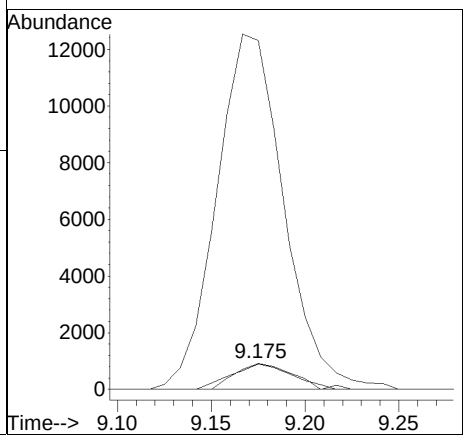


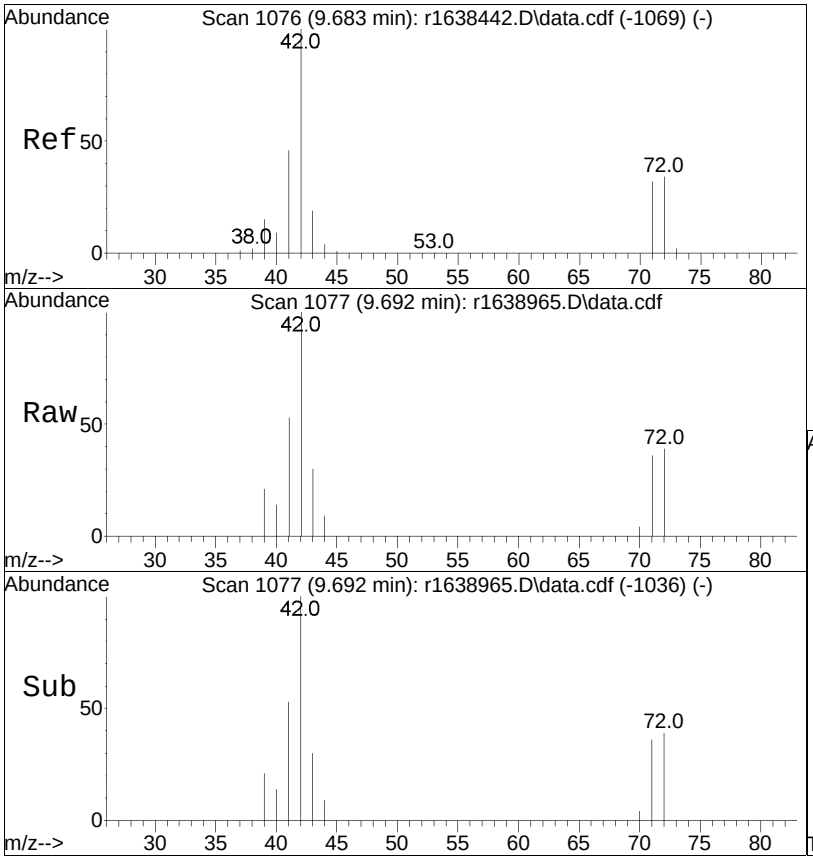


#38
Ethyl Acetate
Concen: 0.52 ppbV
RT: 9.175 min Scan# 1015
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 61 Resp: 1967

Ion	Ratio	Lower	Upper
61	100		
70	98.0	74.6	112.0
43	1343.6	942.0	1413.0

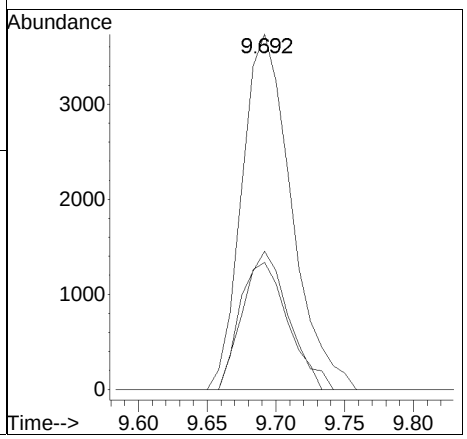


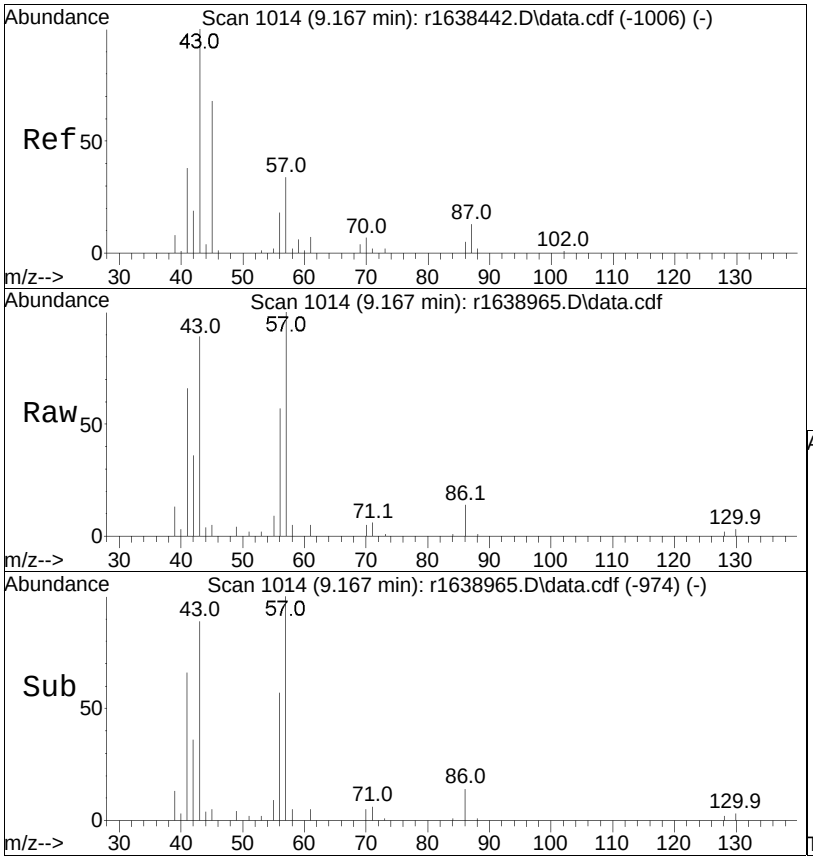


#40
Tetrahydrofuran
Concen: 0.56 ppbV
RT: 9.692 min Scan# 1077
Delta R.T. 0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 42 Resp: 9346

Ion	Ratio	Lower	Upper
42	100		
71	35.8	25.6	38.4
72	38.9	27.4	41.2

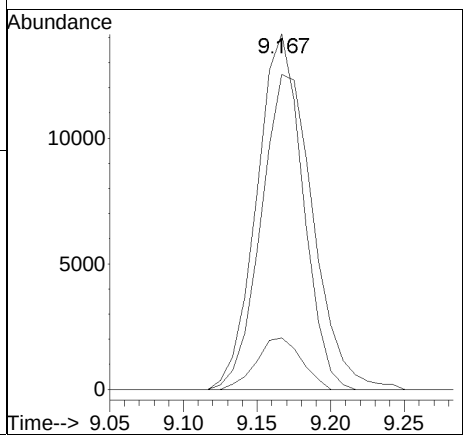


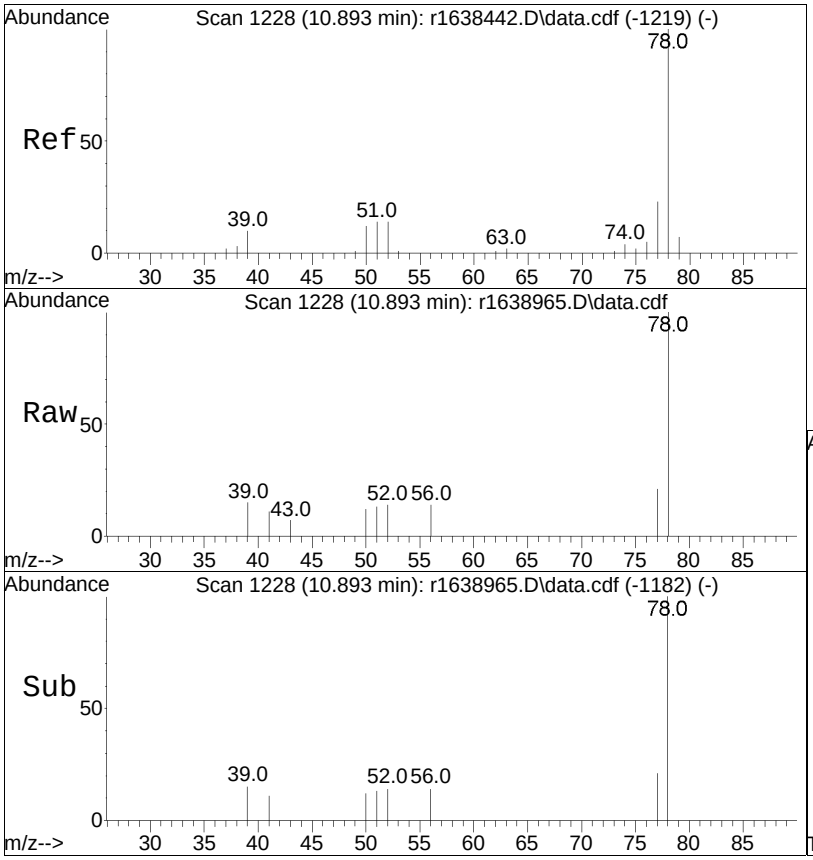


#44
hexane
Concen: 1.91 ppbV
RT: 9.167 min Scan# 1014
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 57 Resp: 30794

Ion	Ratio	Lower	Upper
57	100		
43	88.6	233.1	349.7#
86	14.5	12.6	18.8

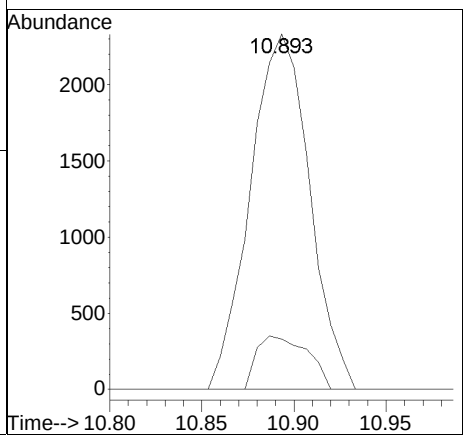


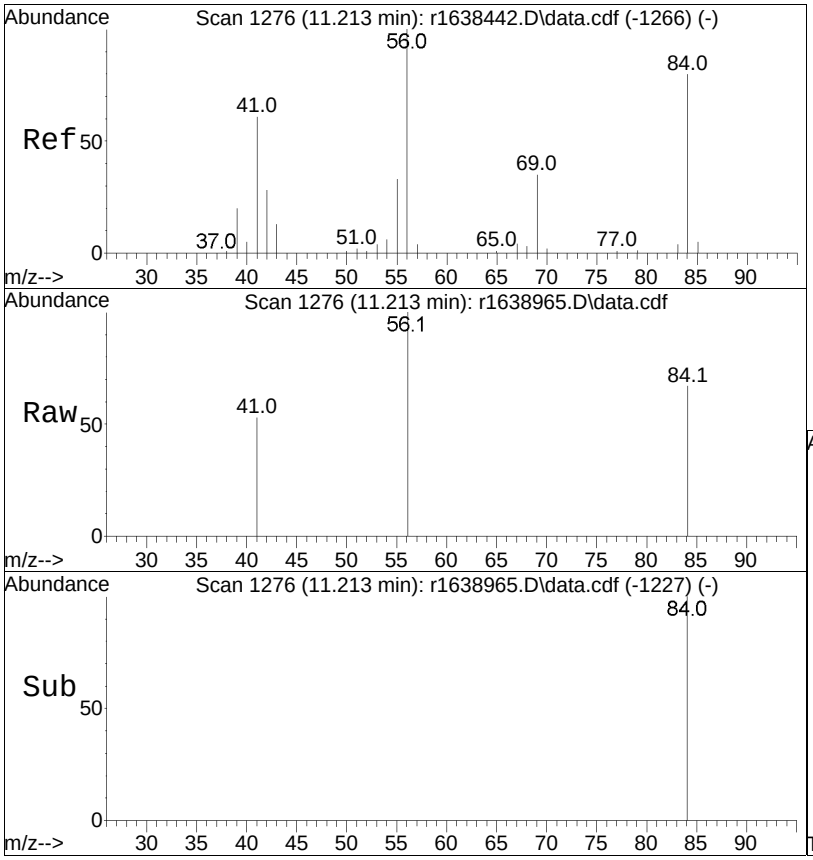


#50
benzene
Concen: 0.16 ppbV
RT: 10.893 min Scan# 1228
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 78 Resp: 5228

Ion	Ratio	Lower	Upper
78	100		
52	14.2	11.6	17.4

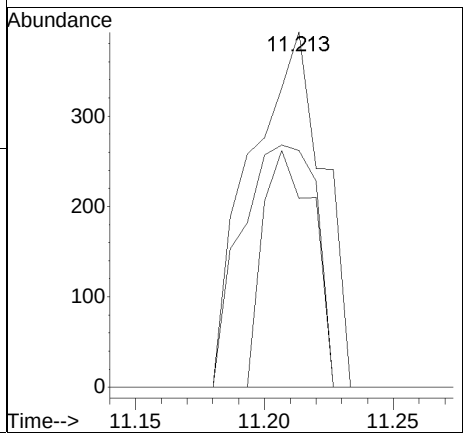


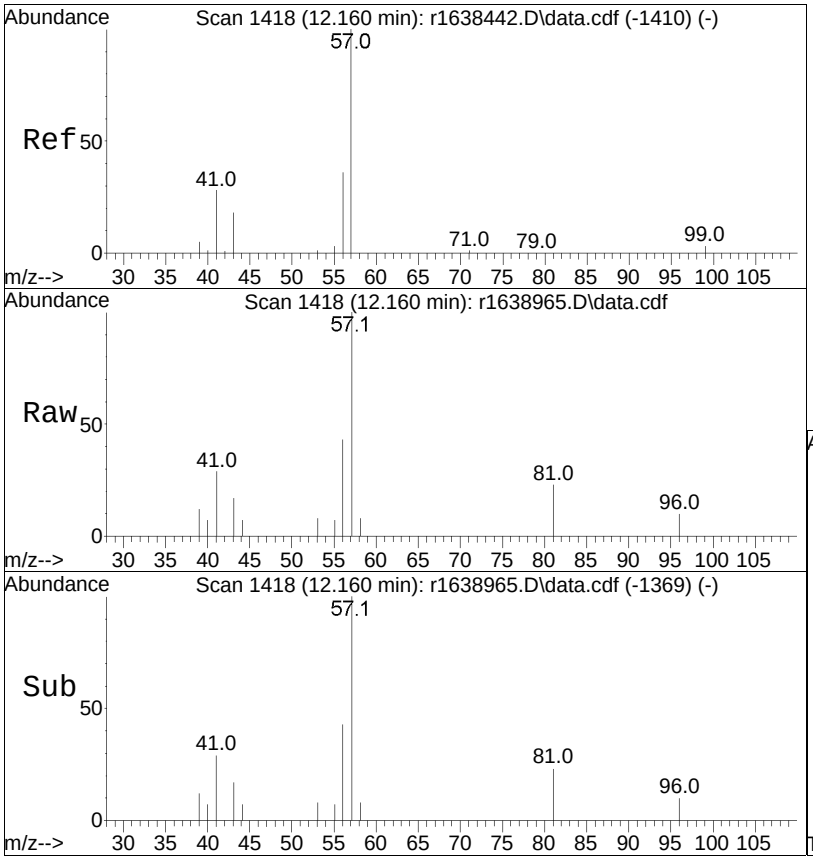


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.213 min Scan# 1276
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 56 Resp: 772

Ion	Ratio	Lower	Upper
56	100		
84	66.7	64.2	96.4
41	53.2	48.8	73.2

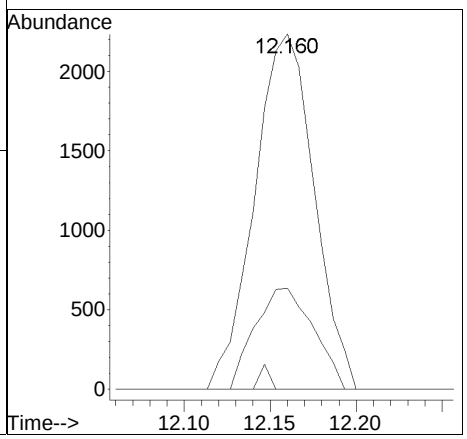


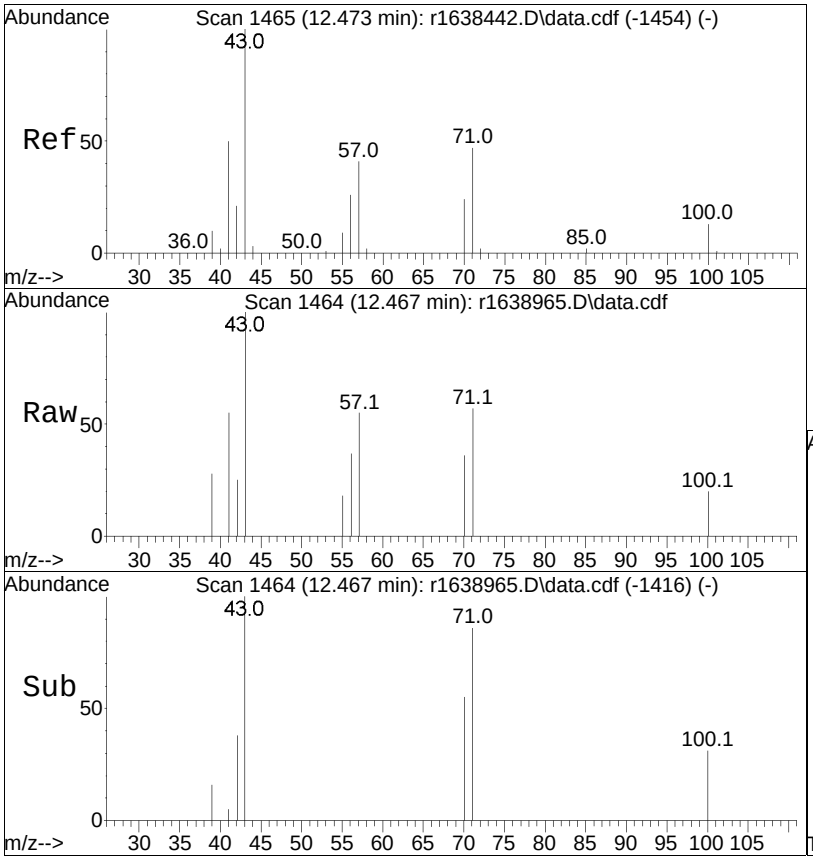


#60
2,2,4-trimethylpentane
Concen: 0.10 ppbV
RT: 12.160 min Scan# 1418
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 57 Resp: 5392

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.4	6.6#
41	28.5	21.9	32.9

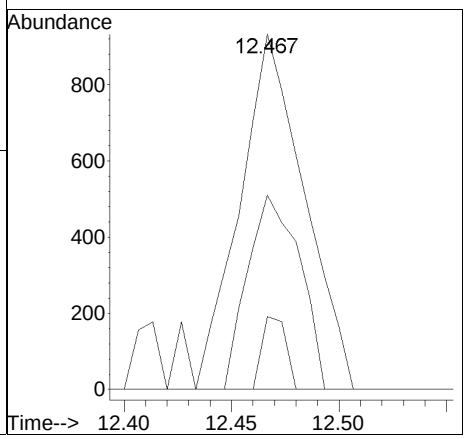


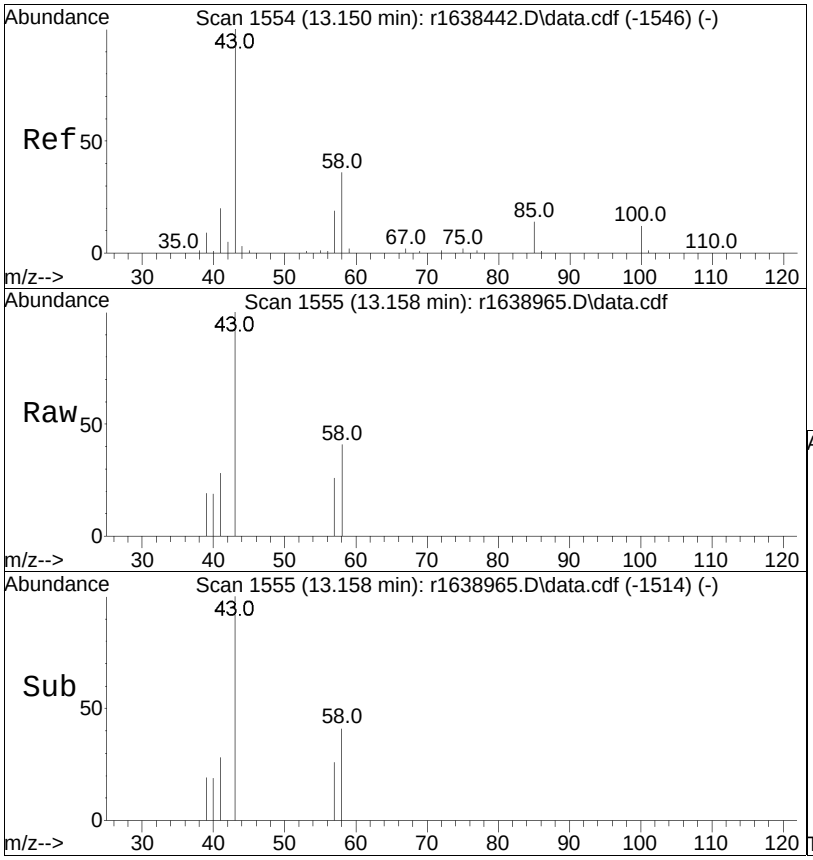


#62
heptane
Concen: 0.08 ppbV
RT: 12.467 min Scan# 1464
Delta R.T. -0.007 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 43 Resp: 1950

Ion	Ratio	Lower	Upper
43	100		
57	54.7	32.8	49.2#
100	20.5	10.9	16.3#

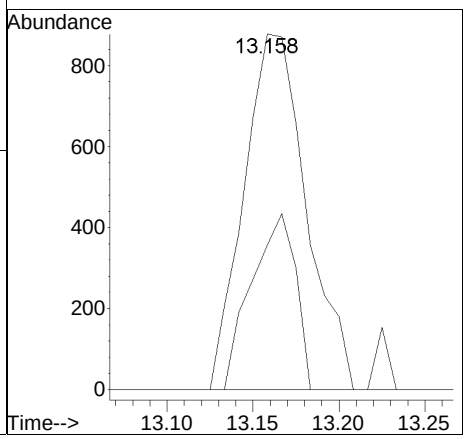


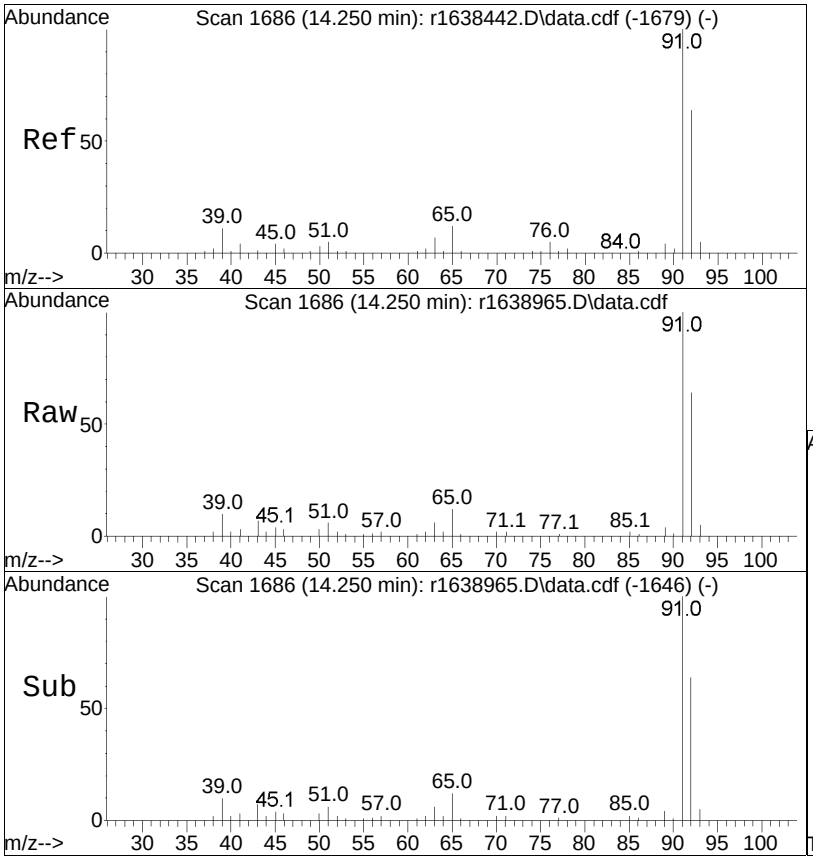


#64
4-methyl-2-pentanone
Concen: 0.08 ppbV
RT: 13.158 min Scan# 1555
Delta R.T. 0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 43 Resp: 2220

Ion	Ratio	Lower	Upper
43	100		
58	40.7	28.6	43.0
100	0.0	9.9	14.9#

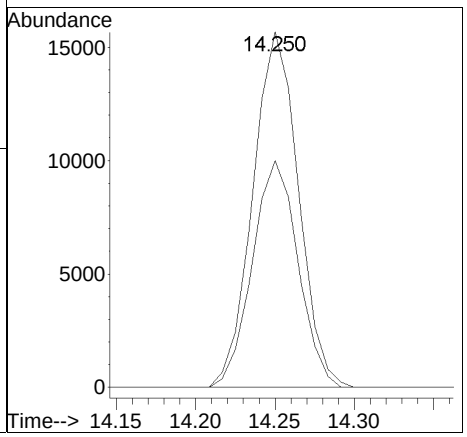


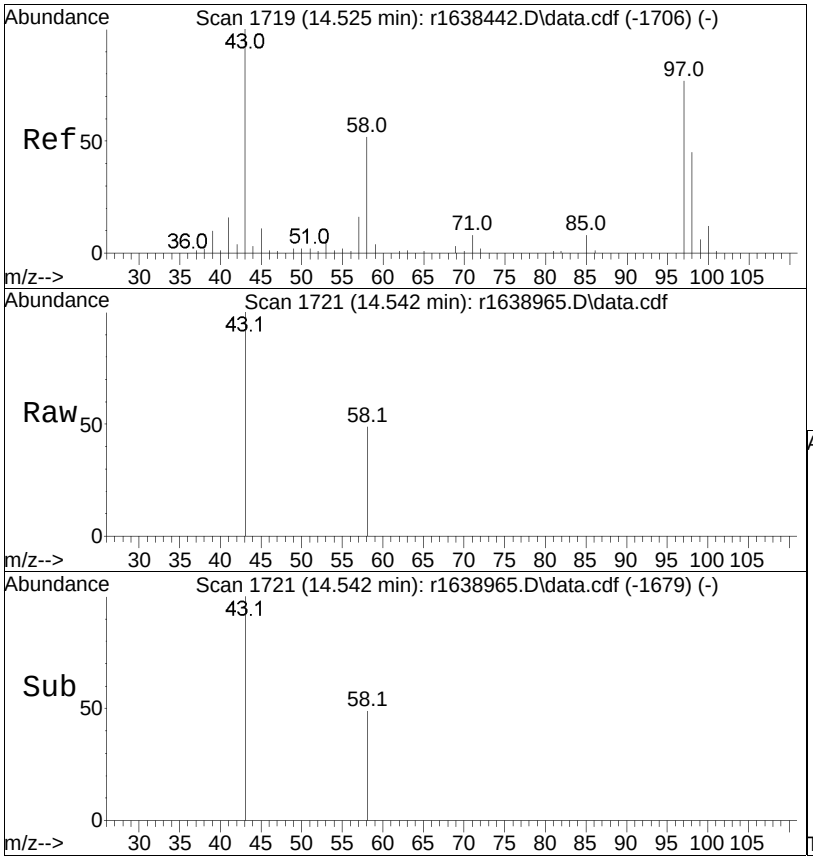


#68
toluene
Concen: 0.71 ppbV
RT: 14.250 min Scan# 1686
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 91 Resp: 31292

Ion	Ratio	Lower	Upper
91	100		
92	63.8	51.0	76.4

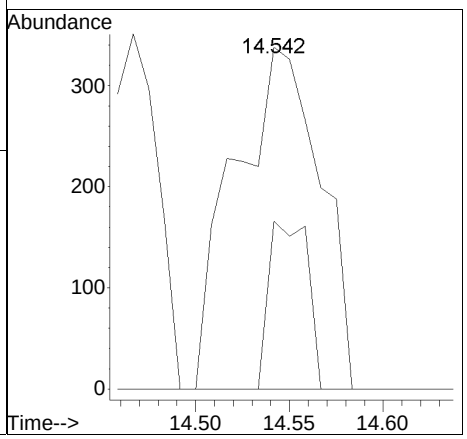


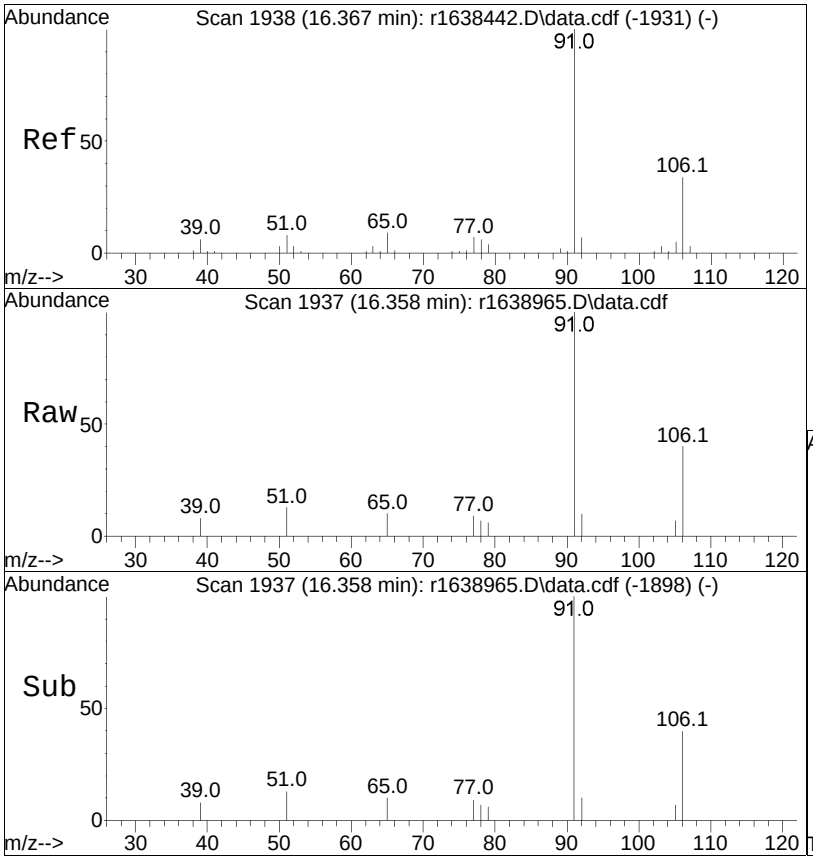


#72
2-hexanone
Concen: 0.04 ppbV
RT: 14.542 min Scan# 1721
Delta R.T. 0.017 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 43 Resp: 1076

Ion	Ratio	Lower	Upper
43	100		
58	49.1	41.4	62.2
100	0.0	9.3	13.9#

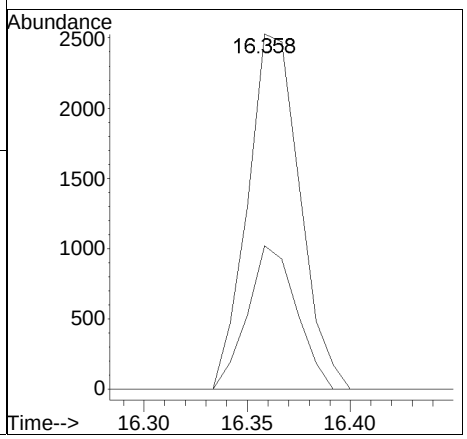


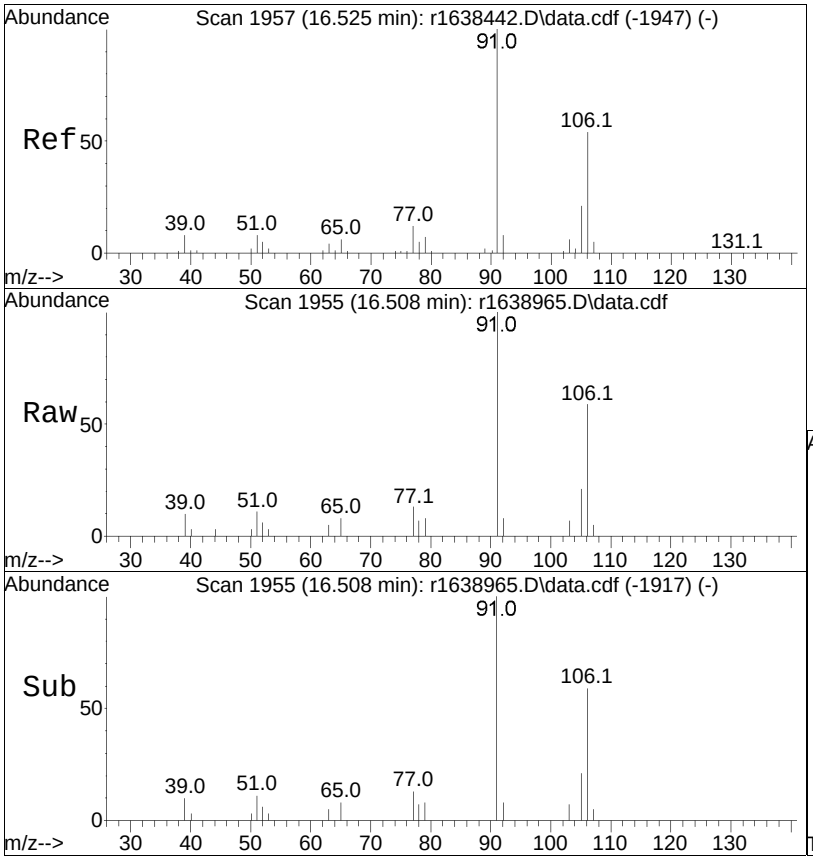


#81
ethylbenzene
Concen: 0.08 ppbV
RT: 16.358 min Scan# 1937
Delta R.T. -0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 91 Resp: 4448

Ion	Ratio	Lower	Upper
91	100		
106	40.4	27.4	41.2

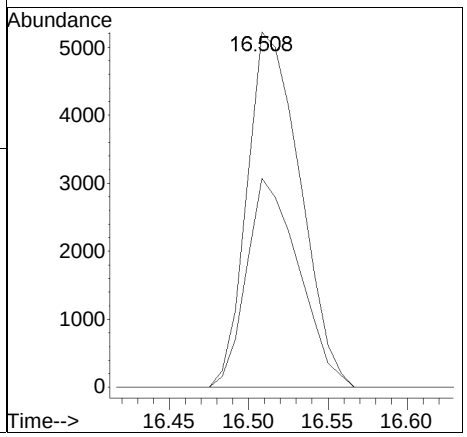


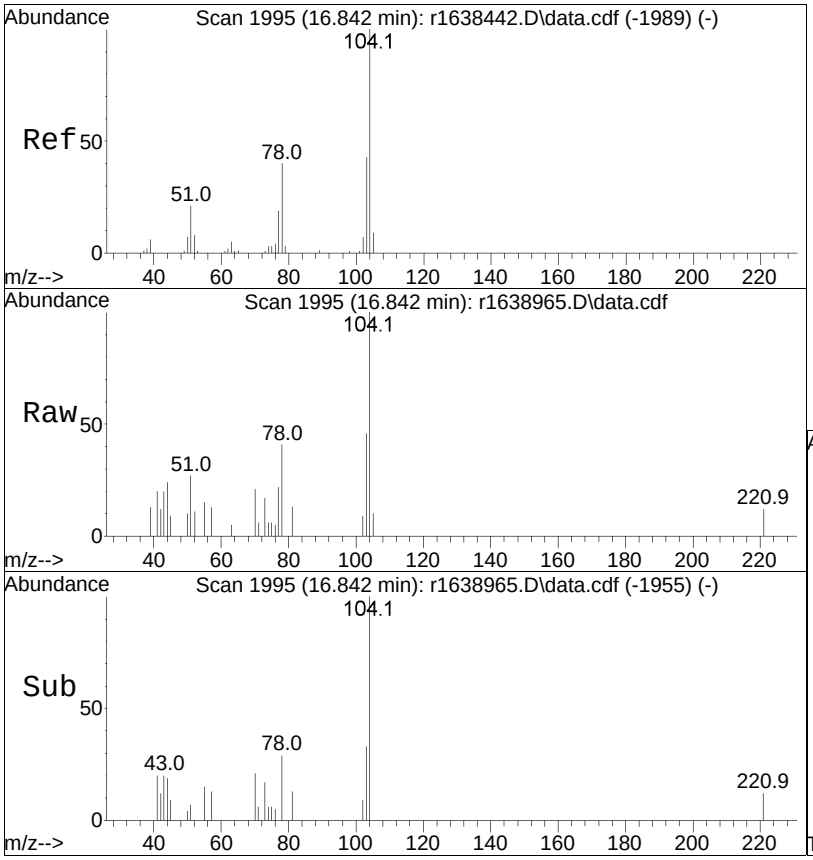


#83
m+p-xylene
Concen: 0.28 ppbV
RT: 16.508 min Scan# 1955
Delta R.T. -0.017 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 91 Resp: 12168

Ion	Ratio	Lower	Upper
91	100		
106	58.8	43.0	64.4

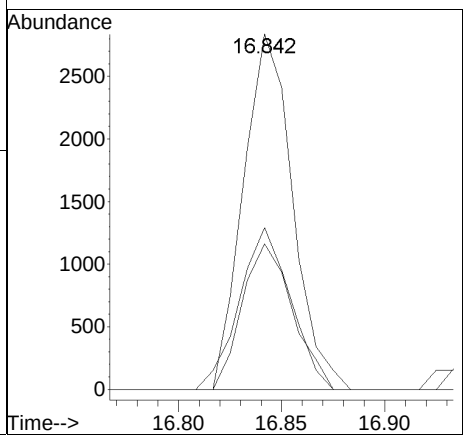


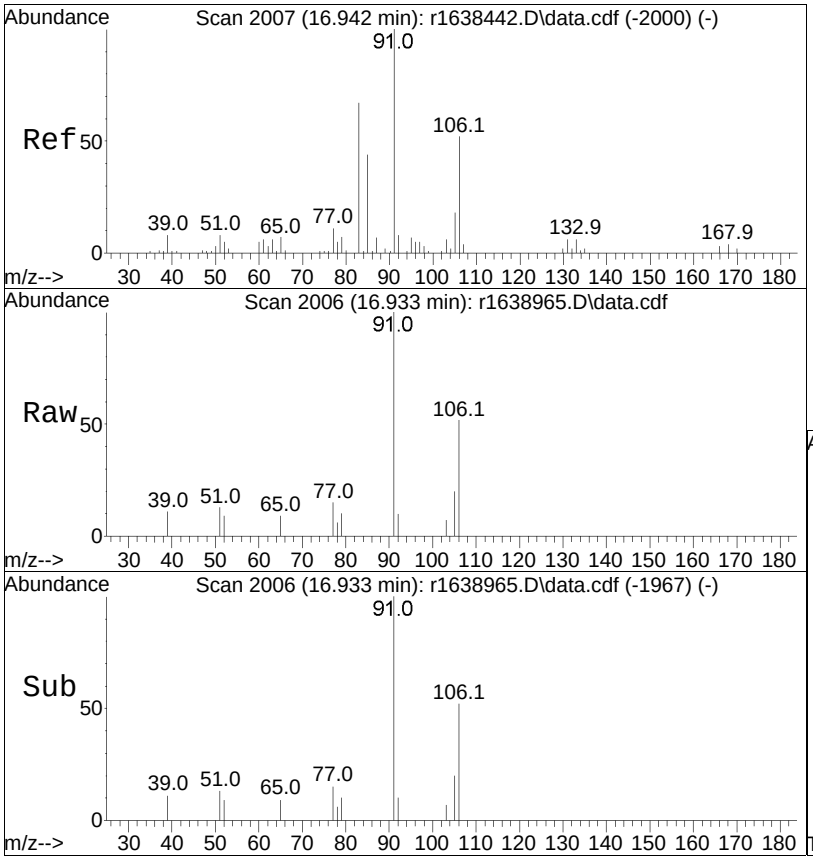


#85
styrene
Concen: 0.13 ppbV
RT: 16.842 min Scan# 1995
Delta R.T. 0.000 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:104 Resp: 4719

Ion	Ratio	Lower	Upper
104	100		
103	45.5	34.0	51.0
78	41.0	31.7	47.5

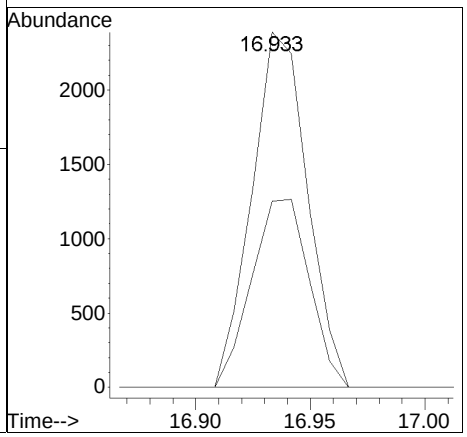


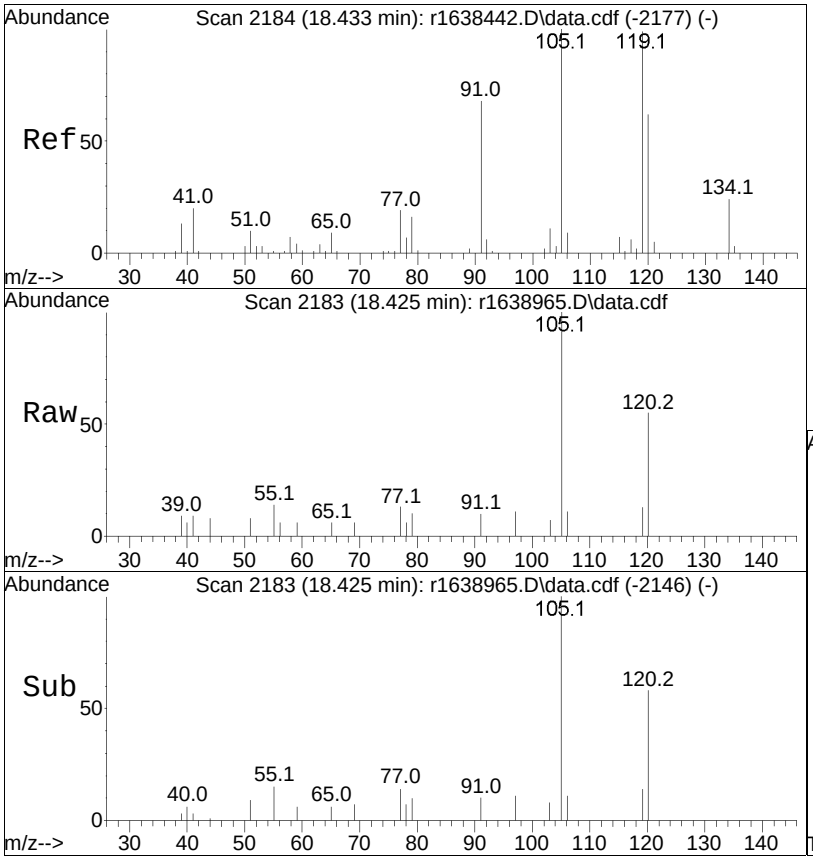


#87
o-xylene
Concen: 0.09 ppbV
RT: 16.933 min Scan# 2006
Delta R.T. -0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 91 Resp: 4025

Ion	Ratio	Lower	Upper
91	100		
106	52.4	41.7	62.5

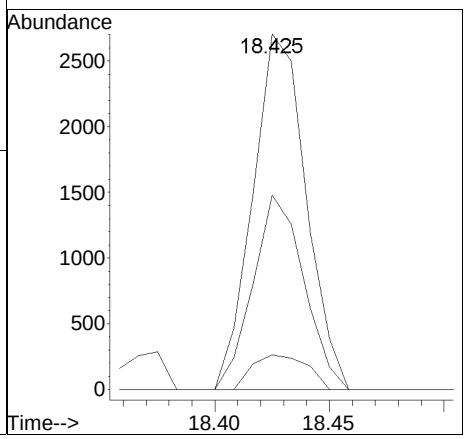




#99
1,2,4-trimethylbenzene
Concen: 0.09 ppbV
RT: 18.425 min Scan# 2183
Delta R.T. -0.008 min
Lab File: r1638965.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:105 Resp: 4368

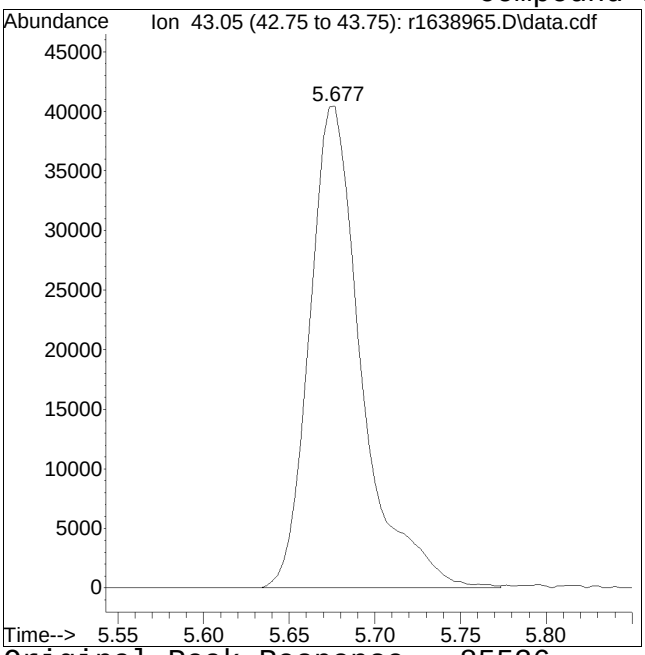
Ion	Ratio	Lower	Upper
105	100		
120	54.6	49.9	74.9
91	9.7	54.0	81.0#



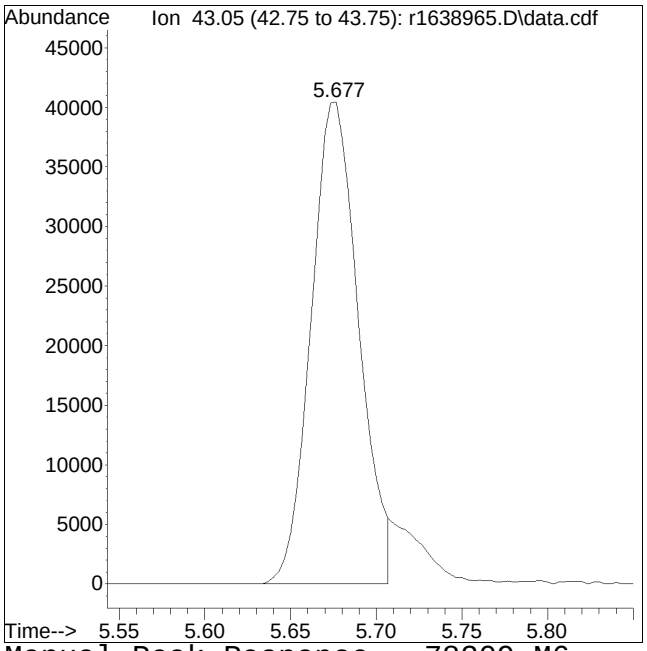
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638965.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : WG1818792-5,3,250,250 Quant Date : 8/23/2023 6:32 am

Compound #19: acetone



Original Peak Response = 85536



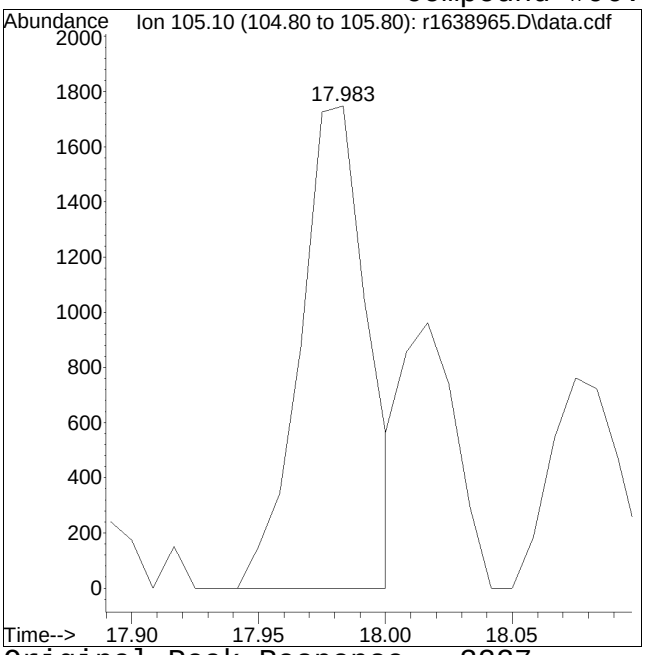
Manual Peak Response = 78209 M6

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

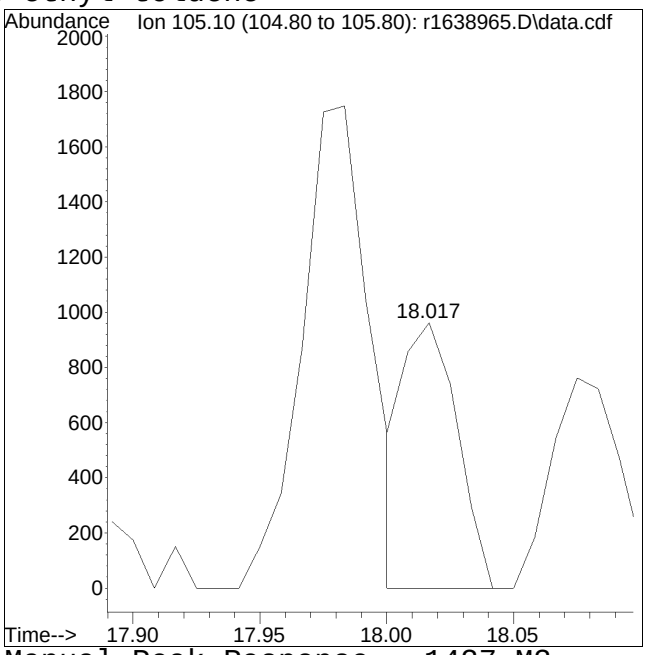
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TFS16_230725.M
Data File : r1638965.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : WG1818792-5,3,250,250 Quant Date : 8/23/2023 6:32 am

Compound #96: 4-ethyl toluene



Original Peak Response = 3227



Manual Peak Response = 1427 M3

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

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

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)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2023, 03:54 pm

Work Group: WG1818792 for Department: 3 GC/MS

Created: 22-AUG-23 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2347533-01	RI-SV-6	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-02	RI-AA-1	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-6
L2347533-03	RI-SV-9	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-04	RI-SV-8	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-05	RI-SV-5	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-06	RI-SV-7	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-07	RI-SV-4	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-08	RI-SV-3	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347533-09	RI-SV-2	S	TO15-LL	SOIL_VAPOR	DONE	U	0915	0823	S0	Can-6
L2347540-01	IA-1	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-02	IA-2	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-03	IA-4	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-04	IA-5	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-05	IA-6	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-06	IA-9	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-07	IA-F1C	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-08	IA-F2C	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-09	IA-F3C	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-10	AA-1	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-11	DUP_081623	S	TO15-LL	AIR	DONE	U	0915	0823	S0	Can-2.7
WG1818792-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1818792-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1818792-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1818792-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1818792-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1818792-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1818792-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1818792-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1818792-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1818792-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				

Comments:

WG1818792-5 L2347540-05

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 07/25/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 230725.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA16072501	TO15_SFS.qgm	R1638434.qgd	250ML	TUNE		NA
9	ITO15-SIMTD0.02	TO15_SFS.qgm	R1638435.qgd	SS23-019D 50 mL			NA
9	ITO15-SIMTD0.05	TO15_SFS.qgm	R1638436.qgd	SS23-019D 125 mL			NA
9	ITO15-SIMTD0.1	TO15_SFS.qgm	R1638437.qgd	SS23-019D 250 mL			NA
10	ITO15-LLSTD0.2	TO15_SFS.qgm	R1638438.qgd	SS23-019C 50 mL			NA
10	ITO15-LLSTD0.5	TO15_SFS.qgm	R1638439.qgd	SS23-019C 125 mL			NA
10	ITO15-LLSTD1.0	TO15_SFS.qgm	R1638440.qgd	SS23-019C 250 mL			NA
11	ITO15-LLSTD5.0	TO15_SFS.qgm	R1638441.qgd	SS23-019B 125 mL			NA
11	ITO15-LLSTD010	TO15_SFS.qgm	R1638442.qgd	SS23-019B 250 mL			NA
12	ITO15-LLSTD020	TO15_SFS.qgm	R1638443.qgd	SS23-019A 50 mL			NA
12	ITO15-LLSTD050	TO15_SFS.qgm	R1638444.qgd	SS23-019A 125 mL			NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1638445.qgd	SS23-019A 250 mL			NA
1	BA16072501	TO15_SFS.qgm	R1638446.qgd	250ML			NA
1	BA16072502	TO15_SFS.qgm	R1638447.qgd	250ML			NA
2	CTO15-LLSTD010	TO15_SFS.qgm	R1638448.qgd	SS23-017H 250 mL	LL ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1638449.qgd	SS23-017H 125 mL	SIM ICV		NA

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 08/22/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 230822.S

Sample ID

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA16082201	TO15_SFS.qgm	R1638951.qgd	250 mL	TUNE		NA
2	CA16082201	TO15_SFS.qgm	R1638952.qgd	250 mL SS23-016E	LL CC		NA
4	CTO15-LLSTD10	TO15_SFS.qgm	R1638953.qgd	250 mL SS23-017D	DO NOT USE		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1638954.qgd	125 mL SS23-017D	SIM LCS		NA
4	CTO15-LLSTD10	TO15_SFS.qgm	R1638955.qgd	250 mL SS23-017D	LL LCS		NA
1	BA16082201	TO15_SFS.qgm	R1638956.qgd	250 mL	LL BLANK		NA
1	BA16082202	TO15_SFS.qgm	R1638957.qgd	250 mL	SIM BLANK		NA
1	L2347533-02,3,250,250	TO15_SFS.qgm	R1638958.qgd	WG1818792,ICAL20199		NY	Y
2	L2347540-10,3,250,250	TO15_SFS.qgm	R1638959.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
4	L2347540-01,3,250,250	TO15_SFS.qgm	R1638960.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
5	L2347540-02,3,250,250	TO15_SFS.qgm	R1638961.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
6	L2347540-03,3,250,250	TO15_SFS.qgm	R1638962.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
7	L2347540-04,3,250,250	TO15_SFS.qgm	R1638963.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
8	L2347540-05,3,250,250	TO15_SFS.qgm	R1638964.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
8	L2347540-05DUP,3,250,250	TO15_SFS.qgm	R1638965.qgd	WG1818792,ICAL20199	LL/ SIM DUP	NY- 7 SIM	Y
9	L2347540-06,3,250,250	TO15_SFS.qgm	R1638966.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
10	L2347540-07,3,250,250	TO15_SFS.qgm	R1638967.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
11	L2347540-08,3,250,250	TO15_SFS.qgm	R1638968.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
12	L2347540-09,3,250,250	TO15_SFS.qgm	R1638969.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
13	L2347540-11,3,250,250	TO15_SFS.qgm	R1638970.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
14	L2347533-01D,3,125,250	TO15_SFS.qgm	R1638971.qgd	WG1818792,ICAL20199	IS FAILURE	NY	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L2347533-03D,3,17.38,250	TO15_SFS.qgm	R1638972.qgd	WG1818792,ICAL20199	OVERDILUTED	NY	Y
16	L2347533-04D,3,75,250	TO15_SFS.qgm	R1638973.qgd	WG1818792,ICAL20199	T	NY	Y
1	L2347533-05D,3,176.77,250	TO15_SFS.qgm	R1638974.qgd	WG1818792,ICAL20199	905	NY	Y
2	L2347533-06,3,250,250	TO15_SFS.qgm	R1638975.qgd	WG1818792,ICAL20199		NY	Y
4	L2347533-07D,3,196.97,250	TO15_SFS.qgm	R1638976.qgd	WG1818792,ICAL20199	905	NY	Y
5	L2347533-08D,3,152.5,250	TO15_SFS.qgm	R1638977.qgd	WG1818792,ICAL20199	905	NY	Y
6	L2347533-09,3,250,250	TO15_SFS.qgm	R1638978.qgd	WG1818792,ICAL20199		NY	Y
15	L2347533-03D,3,124.15,250	TO15_SFS.qgm	R1638979.qgd	WG1818792,ICAL20199		NY	Y
14	L2347533-01D,3,35,250	TO15_SFS.qgm	R1638980.qgd	WG1818792,ICAL20199		NY	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2347540-05	**Analysis Date**	: 08/22/23 20:29
Lab File ID	: R1638964_EV2	**DUP File ID**	: r1638965_Ev2
Dup Sample ID	: WG1818794-5	**DUP Analysis Date**	: 08/22/23 21:09

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.063	0.058	8	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.065	0.068	5	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD			**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1818794-3	**Analysis Date**	: 08/22/23 11:54	**File ID**	: r1638954_Ev2
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	5.08	102				-	70-130	25
1,1-Dichloroethene	5	4.82	96				-	70-130	25
cis-1,2-Dichloroethene	5	4.98	100				-	70-130	25
1,1,1-Trichloroethane	5	4.24	85				-	70-130	25
Carbon tetrachloride	5	4.62	92				-	70-130	25
Trichloroethene	5	4.99	100				-	70-130	25
Tetrachloroethene	5	4.77	95				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1818794-4	**Lab File ID**	: r1638957_Ev2
Instrument ID	: AIRLAB16		
Matrix	: AIR	**Analysis Date**	: 08/22/23 14:48

Client Sample No.	Lab Sample ID	Analysis Date
WG1818794-3LCS	WG1818794-3	08/22/23 11:54
AA-1	L2347540-10	08/22/23 17:10
IA-1	L2347540-01	08/22/23 17:50
IA-2	L2347540-02	08/22/23 18:30
IA-4	L2347540-03	08/22/23 19:09
IA-5	L2347540-04	08/22/23 19:49
IA-6	L2347540-05	08/22/23 20:29
IA-6DUP	WG1818794-5	08/22/23 21:09
IA-9	L2347540-06	08/22/23 21:49
IA-F1C	L2347540-07	08/22/23 22:29
IA-F2C	L2347540-08	08/22/23 23:09
IA-F3C	L2347540-09	08/22/23 23:49
DUP_081623	L2347540-11	08/23/23 00:29

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 07/25/23 06:41
Tune Standard	: WG1807911-1	**Tune File ID**	: r1638434_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.5
75	30.0 - 66.0% of mass 95	32.9
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.4 (.5)1
174	50.0 - 120.0% of mass 95	71.5
175	4.0 - 9.0% of mass 174	5.3 (7.3)1
176	93.0 - 101% of mass 174	67 (93.7)1
177	5.0 - 9.0% of mass 176	4.6 (6.9)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	R1722240-1	R1638435_EV2	07/25/23 07:17
STD0.05	R1722240-2	R1638436_EV2	07/25/23 07:53
STD0.1	R1722240-3	R1638437_EV2	07/25/23 08:32
STD0.2	R1722240-4	R1638438_EV2	07/25/23 09:10
STD0.5	R1722240-5	R1638439_EV2	07/25/23 09:50
STD1.0	R1722240-6	R1638440_EV2	07/25/23 10:31
STD5.0	R1722240-7	R1638441_EV2	07/25/23 11:10
STD010	R1722240-8	R1638442_EV2	07/25/23 11:52
STD020	R1722240-9	R1638443_EV2	07/25/23 12:30
STD050	R1722240-10	R1638444_EV2	07/25/23 13:09
ICV QUANT	R1722240-11	R1638449_EV2	07/26/23 01:05

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 08/22/23 09:50
Tune Standard	: WG1818794-1	**Tune File ID**	: r1638951_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	0
75	30.0 - 66.0% of mass 95	27
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	0
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	65.5
175	4.0 - 9.0% of mass 174	0 (0)1
176	93.0 - 101% of mass 174	67.8 (103.)1
177	5.0 - 9.0% of mass 176	0 (0)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
WG1818794-2CCAL	WG1818794-2	R1638954_EV2	08/22/23 11:54
WG1818794-3LCS	WG1818794-3	R1638954_EV2	08/22/23 11:54
WG1818794-4BLANK	WG1818794-4	R1638957_EV2	08/22/23 14:48
AA-1	L2347540-10	R1638959_EV2	08/22/23 17:10
IA-1	L2347540-01	R1638960_EV2	08/22/23 17:50
IA-2	L2347540-02	R1638961_EV2	08/22/23 18:30
IA-4	L2347540-03	R1638962_EV2	08/22/23 19:09
IA-5	L2347540-04	R1638963_EV2	08/22/23 19:49
IA-6	L2347540-05	R1638964_EV2	08/22/23 20:29
WG1818794-5DUP	WG1818794-5	R1638965_EV2	08/22/23 21:09
IA-9	L2347540-06	R1638966_EV2	08/22/23 21:49
IA-F1C	L2347540-07	R1638967_EV2	08/22/23 22:29
IA-F2C	L2347540-08	R1638968_EV2	08/22/23 23:09
IA-F3C	L2347540-09	R1638969_EV2	08/22/23 23:49
DUP_081623	L2347540-11	R1638970_EV2	08/23/23 00:29

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB16	**Analysis Date**	: 08/22/23 11:54:00
Sample No	: WG1818794-2	**Lab File ID**	: R1638954_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1818794-2	121963	9.09	417488	11.31	47850	15.98
Upper Limit	170748	9.42	584483	11.64	66990	16.31
Lower Limit	73178	8.76	250493	10.98	28710	15.65
Sample ID						
WG1818794-3 LCS	121963	9.09	417488	11.31	47850	15.98
WG1818794-4 BLANK	126915	9.09	415026	11.31	48539	15.98
AA-1	128111	9.10	407633	11.31	48441	15.98
IA-1	128111	9.10	411352	11.31	49394	15.98
IA-2	126812	9.10	402282	11.31	47999	15.98
IA-4	127433	9.09	402216	11.31	47980	15.98
IA-5	130370	9.09	410949	11.31	48715	15.98
IA-6	125899	9.09	393250	11.31	47294	15.98
IA-6 DUP	125784	9.09	394570	11.31	46949	15.98
IA-9	126067	9.09	396139	11.31	47070	15.98
IA-F1C	128031	9.09	399902	11.31	47730	15.98
IA-F2C	126406	9.09	390996	11.31	46416	15.98
IA-F3C	127519	9.09	395834	11.30	46730	15.98
DUP_081623	129356	9.09	400593	11.30	48196	15.98

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

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

* Values outside of QC limits

Date Created: 01/06/23
Created By: Jason Hebert
File: PM13669-1
Page: 1

Volatile Organics in Air: TO-15 (AIR)

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

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

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

Volatile Organics in Air: TO-15 (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAI06	5	1.74	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25			
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

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

Volatile Organics in Air: TO-15 (AIR)

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-01	**Date Collected**	: 08/16/23 15:53
Client ID	: IA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638960_EV2	**Instrument ID**	: AIRLAB16
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	0.051	0.020	--	0.321	0.126	--	
79-01-6	Trichloroethene	0.022	0.020	--	0.118	0.107	--	
127-18-4	Tetrachloroethene	0.086	0.020	--	0.583	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-02	**Date Collected**	: 08/16/23 15:37
Client ID	: IA-2	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 18:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638961_EV2	**Instrument ID**	: AIRLAB16
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	0.073	0.020	--	0.459	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.068	0.020	--	0.461	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-03	**Date Collected**	: 08/16/23 15:59
Client ID	: IA-4	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638962_EV2	**Instrument ID**	: AIRLAB16
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	0.062	0.020	--	0.390	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.118	0.020	--	0.800	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-04	**Date Collected**	: 08/16/23 12:10
Client ID	: IA-5	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 19:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638963_EV2	**Instrument ID**	: AIRLAB16
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	0.057	0.020	--	0.359	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.073	0.020	--	0.495	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-05	**Date Collected**	: 08/16/23 15:30
Client ID	: IA-6	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 20:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638964_EV2	**Instrument ID**	: AIRLAB16
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	0.063	0.020	--	0.396	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.065	0.020	--	0.441	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-06	**Date Collected**	: 08/16/23 15:32
Client ID	: IA-9	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 21:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638966_EV2	**Instrument ID**	: AIRLAB16
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	0.060	0.020	--	0.377	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.078	0.020	--	0.529	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-07	**Date Collected**	: 08/16/23 15:42
Client ID	: IA-F1C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 22:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638967_EV2	**Instrument ID**	: AIRLAB16
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	0.062	0.020	--	0.390	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.067	0.020	--	0.454	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-08	**Date Collected**	: 08/16/23 15:47
Client ID	: IA-F2C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638968_EV2	**Instrument ID**	: AIRLAB16
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	0.079	0.020	--	0.497	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.086	0.020	--	0.583	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-09	**Date Collected**	: 08/16/23 15:46
Client ID	: IA-F3C	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 23:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638969_EV2	**Instrument ID**	: AIRLAB16
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	0.060	0.020	--	0.377	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.083	0.020	--	0.563	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-10	**Date Collected**	: 08/16/23 15:56
Client ID	: AA-1	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/22/23 17:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638959_EV2	**Instrument ID**	: AIRLAB16
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	0.064	0.020	--	0.403	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.081	0.020	--	0.549	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2347540-11	**Date Collected**	: 08/16/23 15:39
Client ID	: DUP_081623	**Date Received**	: 08/16/23
Sample Location	: 11-20 46TH ROAD, LONG ISLAND CITY, NY	**Date Analyzed**	: 08/23/23 00:29
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638970_EV2	**Instrument ID**	: AIRLAB16
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	0.056	0.020	--	0.352	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.076	0.020	--	0.515	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1818794-4	**Date Collected**	: NA
Client ID	: WG1818794-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 08/22/23 14:48
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638957_EV2	**Instrument ID**	: AIRLAB16
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

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1818794-5	**Date Collected**	: 08/16/23 15:30
Client ID	: IA-6DUP	**Date Received**	: 08/16/23
Sample Location	:	**Date Analyzed**	: 08/22/23 21:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: APR
Lab File ID	: R1638965_EV2	**Instrument ID**	: AIRLAB16
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	0.058	0.020	--	0.365	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.068	0.020	--	0.461	0.136	--	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638959_Ev2.D
Acq On : 22 Aug 2023 5:10 PM
Operator : AIRLAB16:APR
Sample : L2347540-10,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:46:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

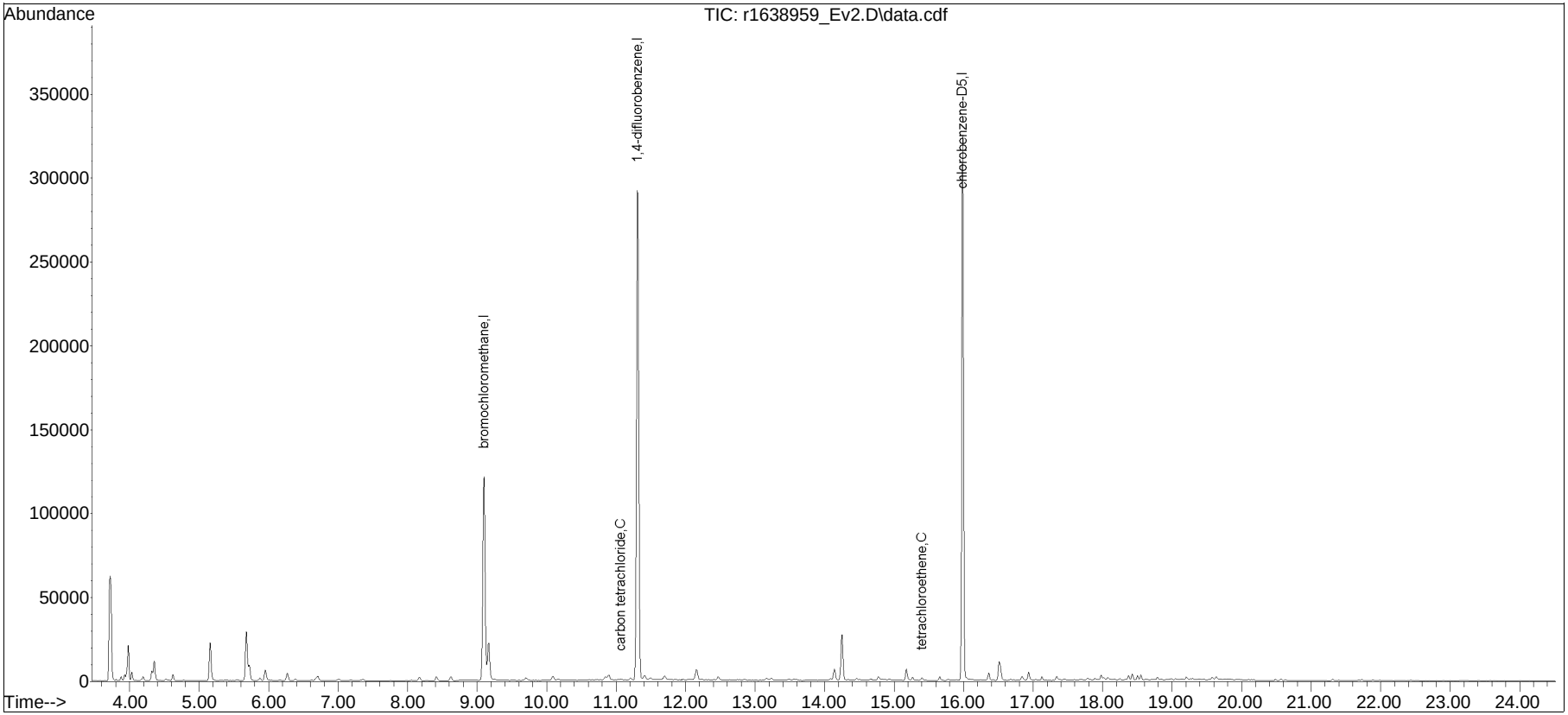
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	128111	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 105.04%			
33) 1,4-difluorobenzene	11.307	114	407633	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 97.64%			
51) chlorobenzene-D5	15.983	54	48441	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 101.24%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.504		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	11.067	117	477	0.064	ppbV #	92
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.400	166	933	0.081	ppbV	94

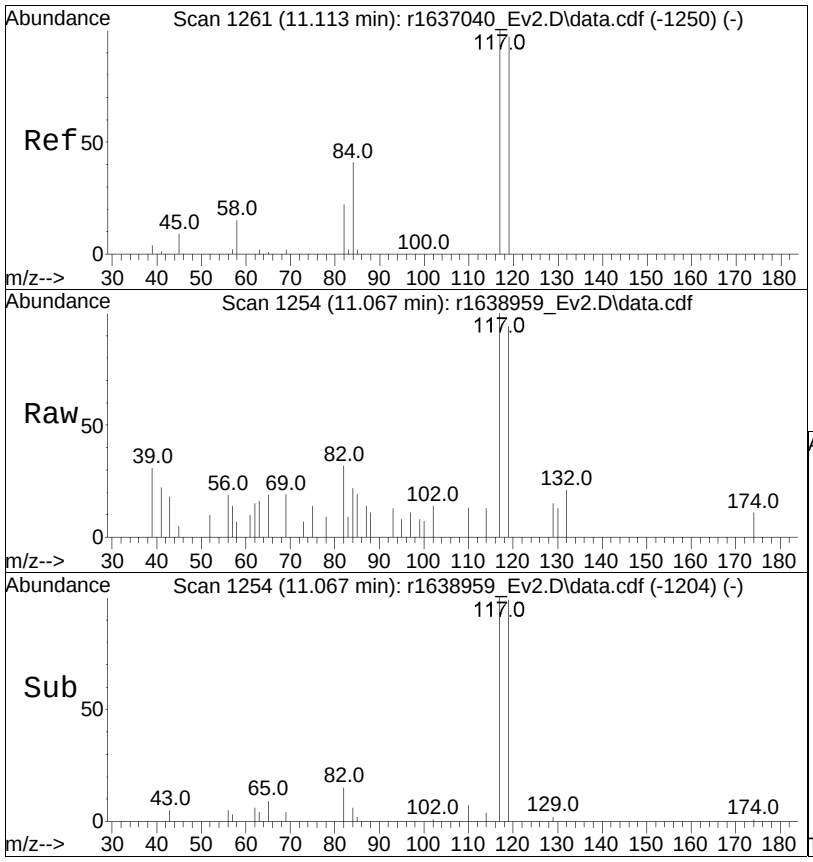
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638959_Ev2.D
Acq On : 22 Aug 2023 5:10 PM
Operator : AIRLAB16:APR
Sample : L2347540-10,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:46:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

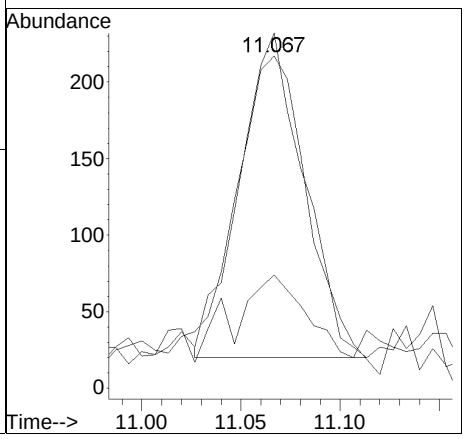


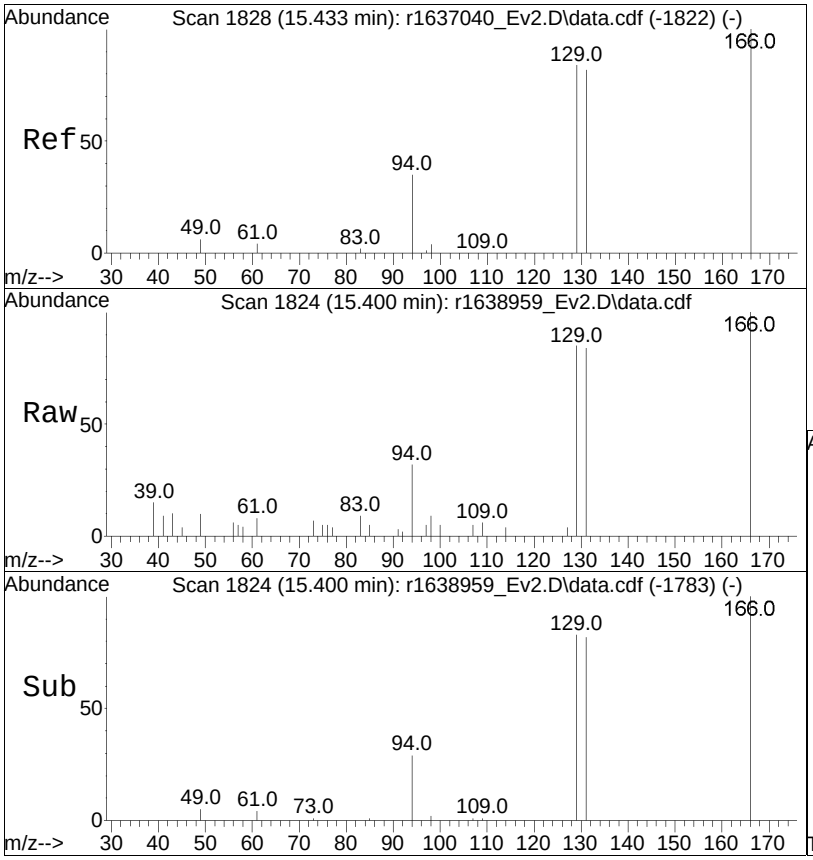


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.067 min Scan# 1254
Delta R.T. 0.007 min
Lab File: r1638959_Ev2.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:117 Resp: 477

Ion	Ratio	Lower	Upper
117	100		
119	93.5	78.1	117.1
82	31.9	15.8	23.8#

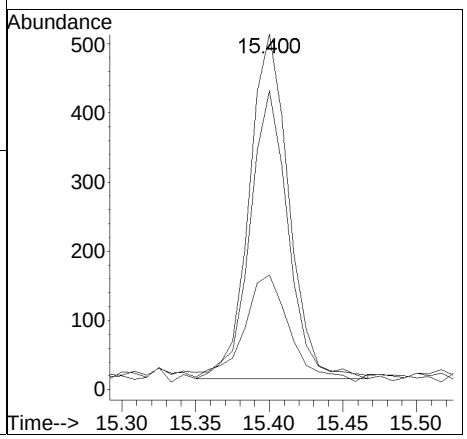




#57
tetrachloroethene
Concen: 0.08 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638959_Ev2.D
Acq: 22 Aug 2023 5:10 PM

Tgt Ion:166 Resp: 933

Ion	Ratio	Lower	Upper
166	100		
131	84.0	61.9	92.9
94	32.3	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638959_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:5: 0	Instrument	:
Sample	: L2347540-10,3,250,250	Quant Date	: 8/23/2023 6:46 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638960_Ev2.D
Acq On : 22 Aug 2023 5:50 PM
Operator : AIRLAB16:APR
Sample : L2347540-01,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:46:53 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

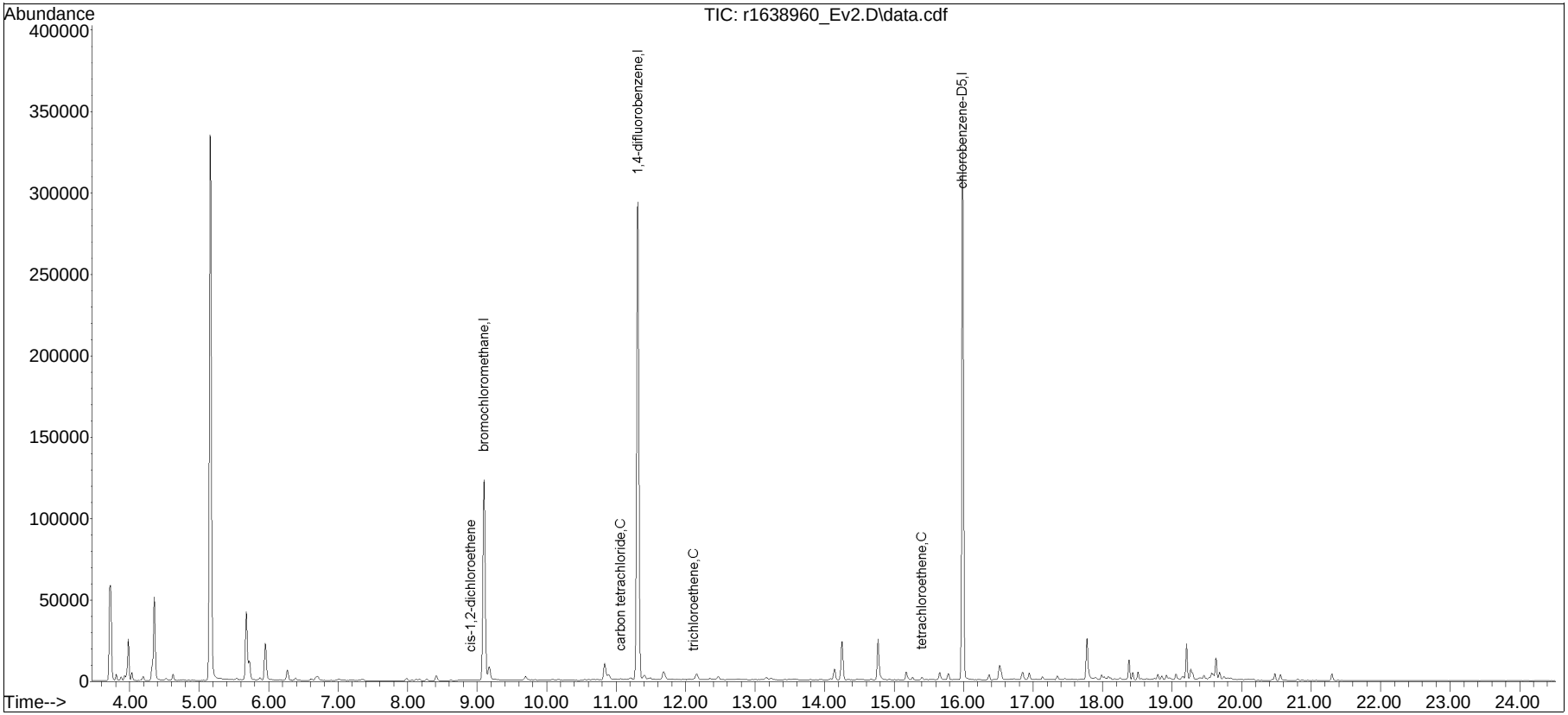
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	128111	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 105.04%			
33) 1,4-difluorobenzene	11.313	114	411352	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 98.53%			
51) chlorobenzene-D5	15.983	54	49394	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 103.23%			
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	8.908	61	120	0.014	ppbV #	87
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.067	117	378	0.051	ppbV #	83
44) trichloroethene	12.120	130	214M3	0.022	ppbV	
57) tetrachloroethene	15.400	166	1017	0.086	ppbV	97

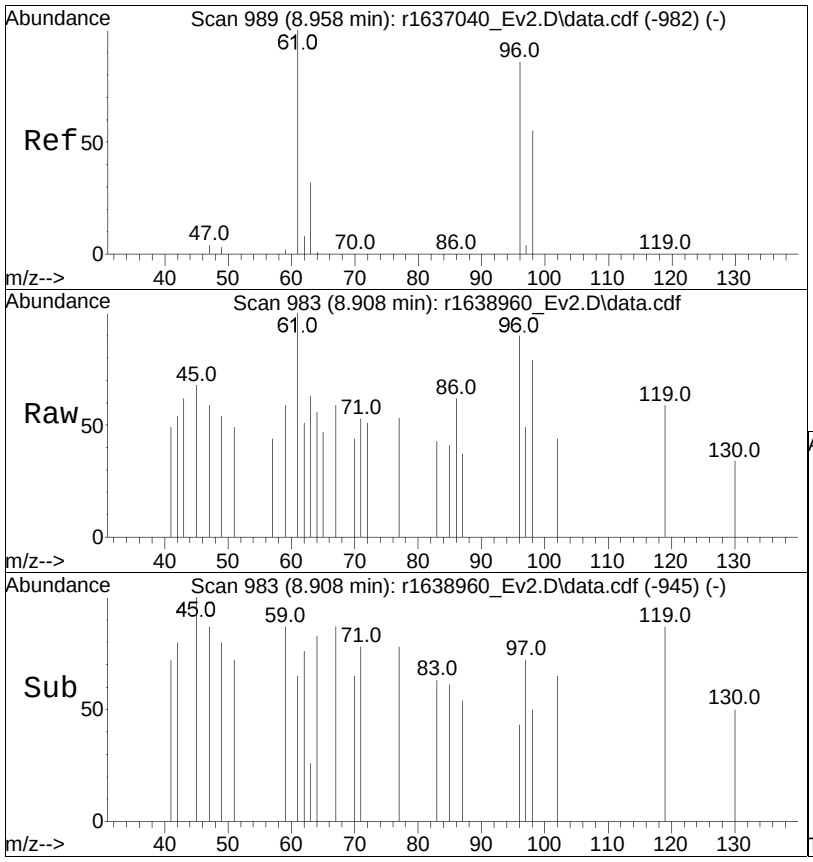
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638960_Ev2.D
Acq On : 22 Aug 2023 5:50 PM
Operator : AIRLAB16:APR
Sample : L2347540-01,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:46:53 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

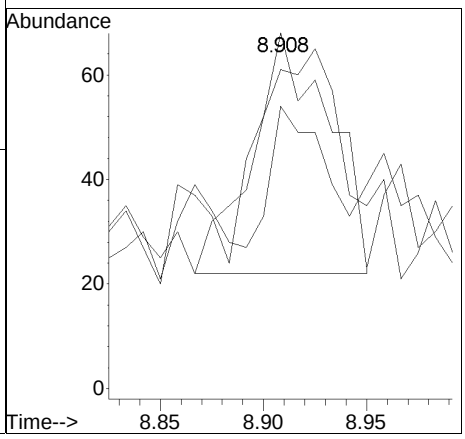


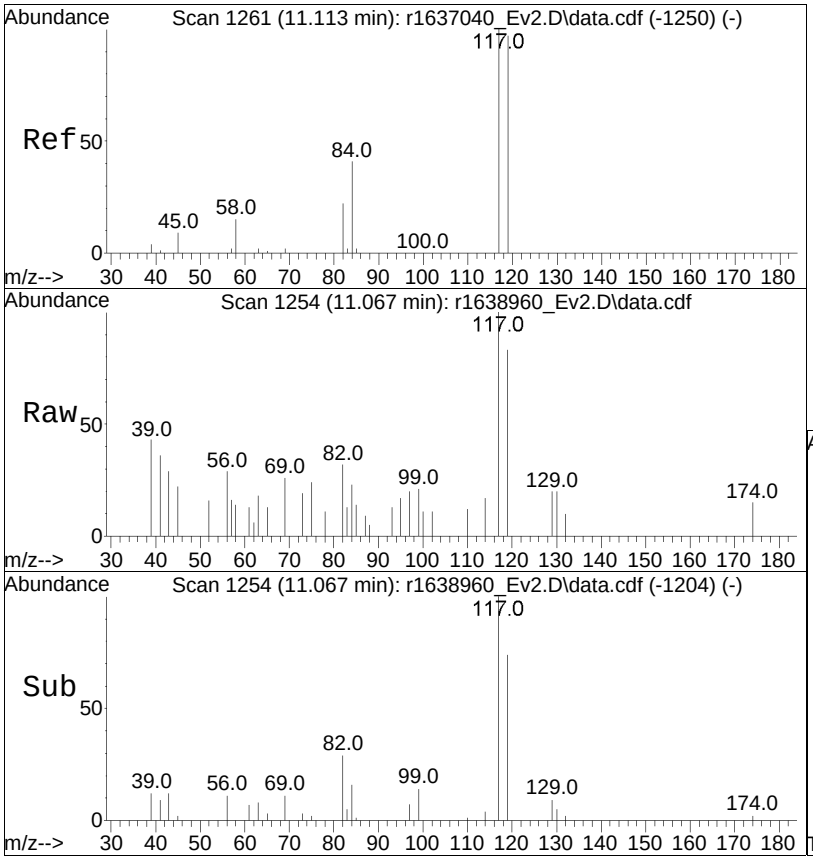


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 8.908 min Scan# 983
Delta R.T. 0.000 min
Lab File: r1638960_Ev2.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion: 61 Resp: 120

Ion	Ratio	Lower	Upper
61	100		
96	89.7	71.1	106.7
98	79.4	45.0	67.4#

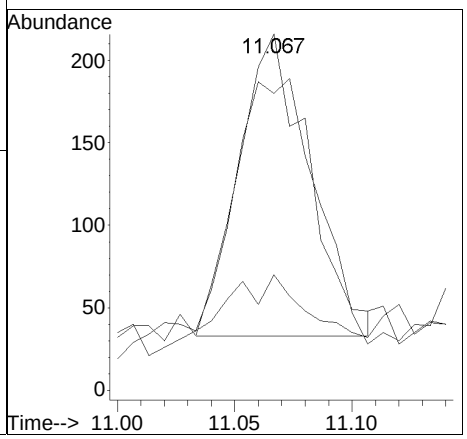


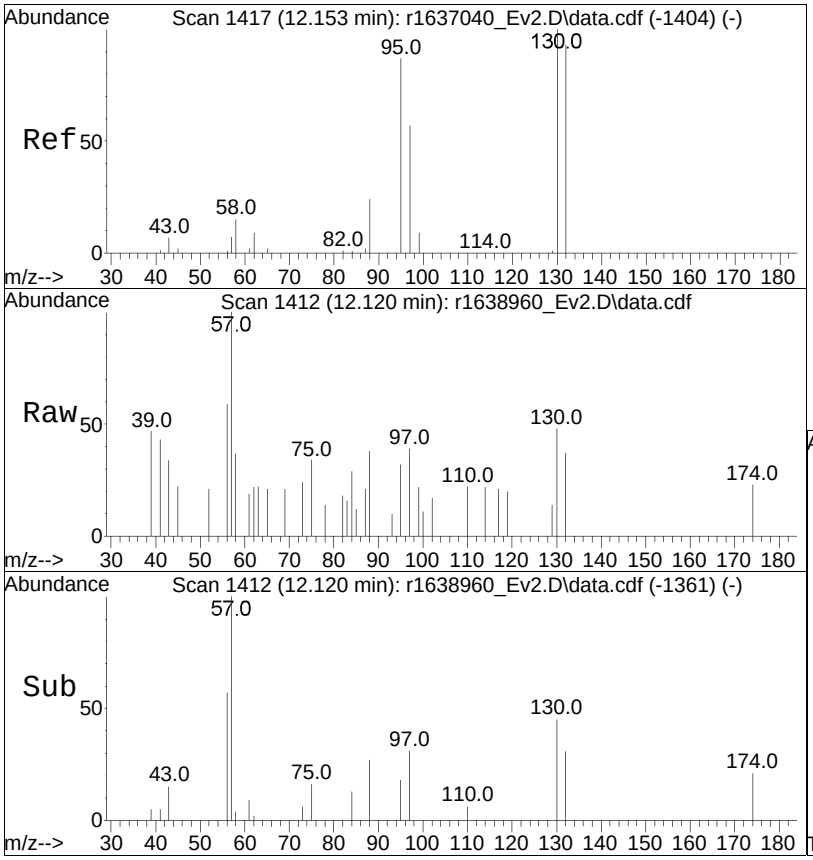


#38
carbon tetrachloride
Concen: 0.05 ppbV
RT: 11.067 min Scan# 1254
Delta R.T. 0.007 min
Lab File: r1638960_Ev2.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:117 Resp: 378

Ion	Ratio	Lower	Upper
117	100		
119	83.3	78.1	117.1
82	32.4	15.8	23.8#

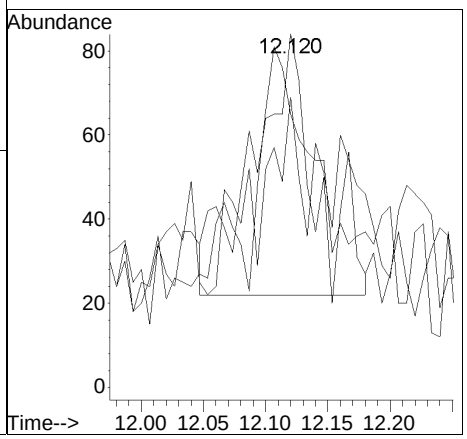


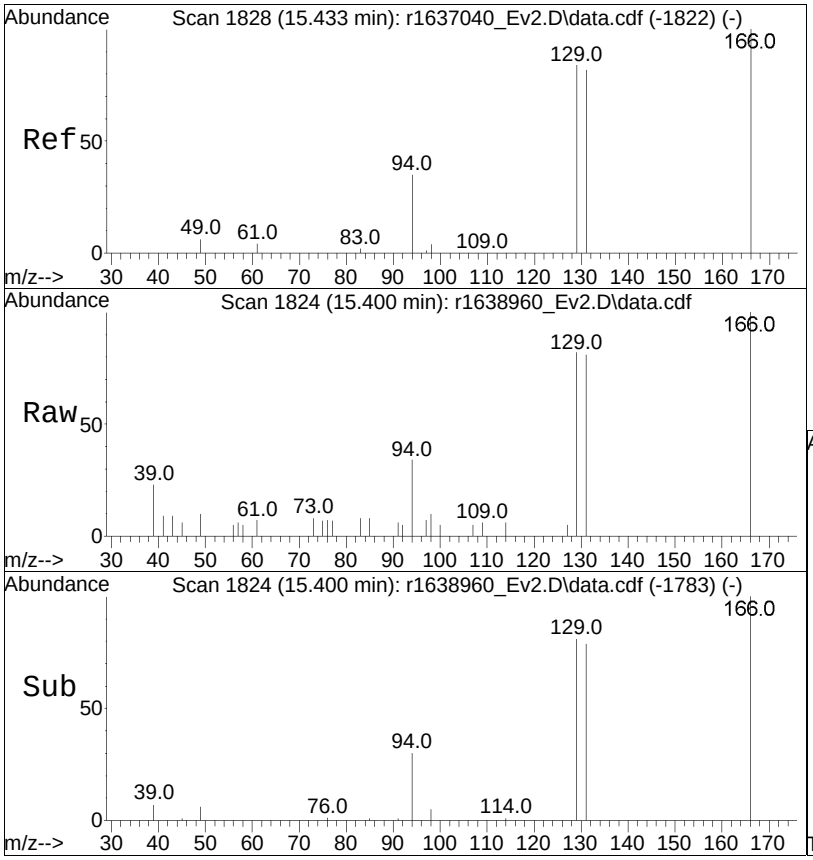


#44
trichloroethene
Concen: 0.02 ppbV m
RT: 12.120 min Scan# 1412
Delta R.T. 0.013 min
Lab File: r1638960_Ev2.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:130 Resp: 214

Ion	Ratio	Lower	Upper
130	100		
132	77.4	74.7	112.1
97	82.1	46.2	69.4#

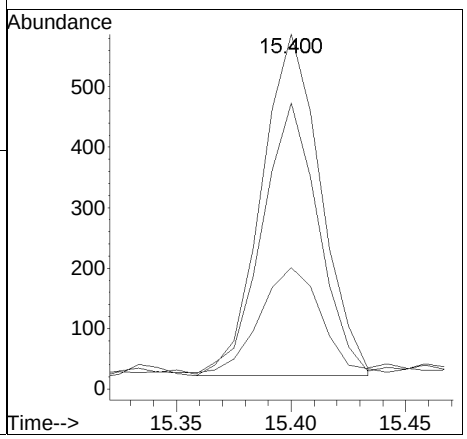




#57
tetrachloroethene
Concen: 0.09 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638960_Ev2.D
Acq: 22 Aug 2023 5:50 PM

Tgt Ion:166 Resp: 1017

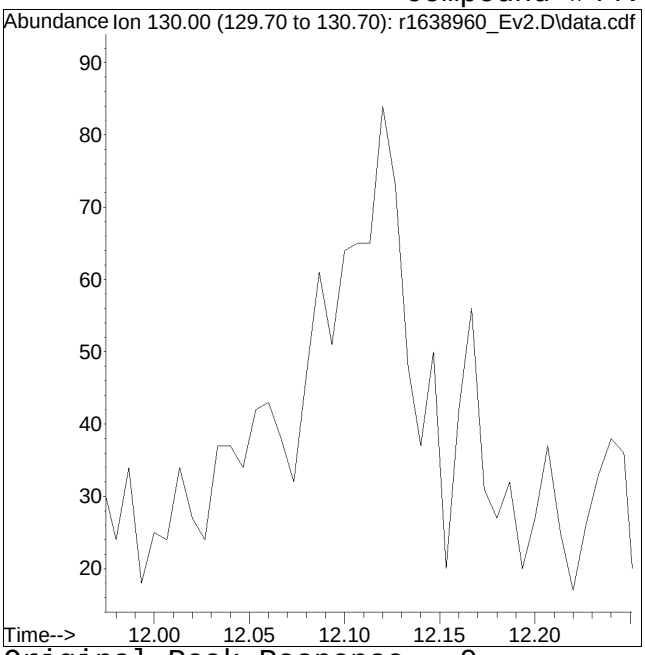
Ion	Ratio	Lower	Upper
166	100		
131	80.6	61.9	92.9
94	34.2	26.6	39.8

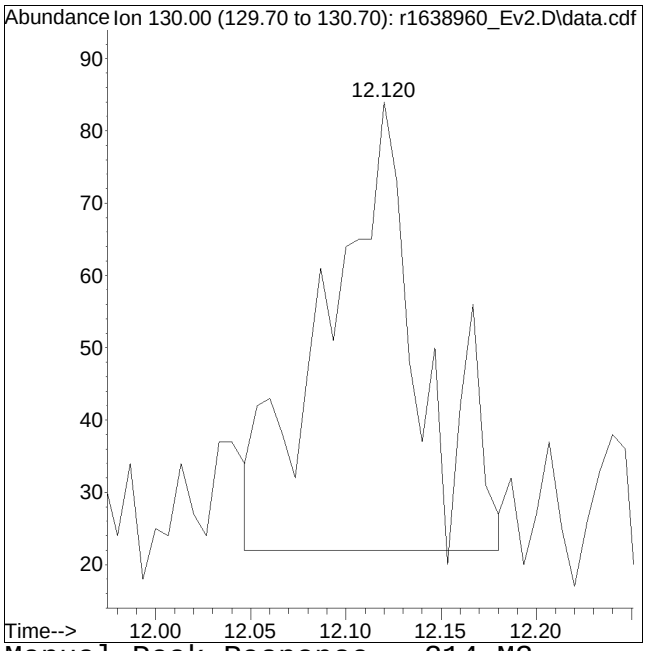


Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638960_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:5: 0 Instrument :
Sample : L2347540-01,3,250,250 Quant Date : 8/23/2023 6:46 am

Compound #44: trichloroethene





Original Peak Response = 0 Manual Peak Response = 214 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638961_Ev2.D
Acq On : 22 Aug 2023 6:30 PM
Operator : AIRLAB16:APR
Sample : L2347540-02,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

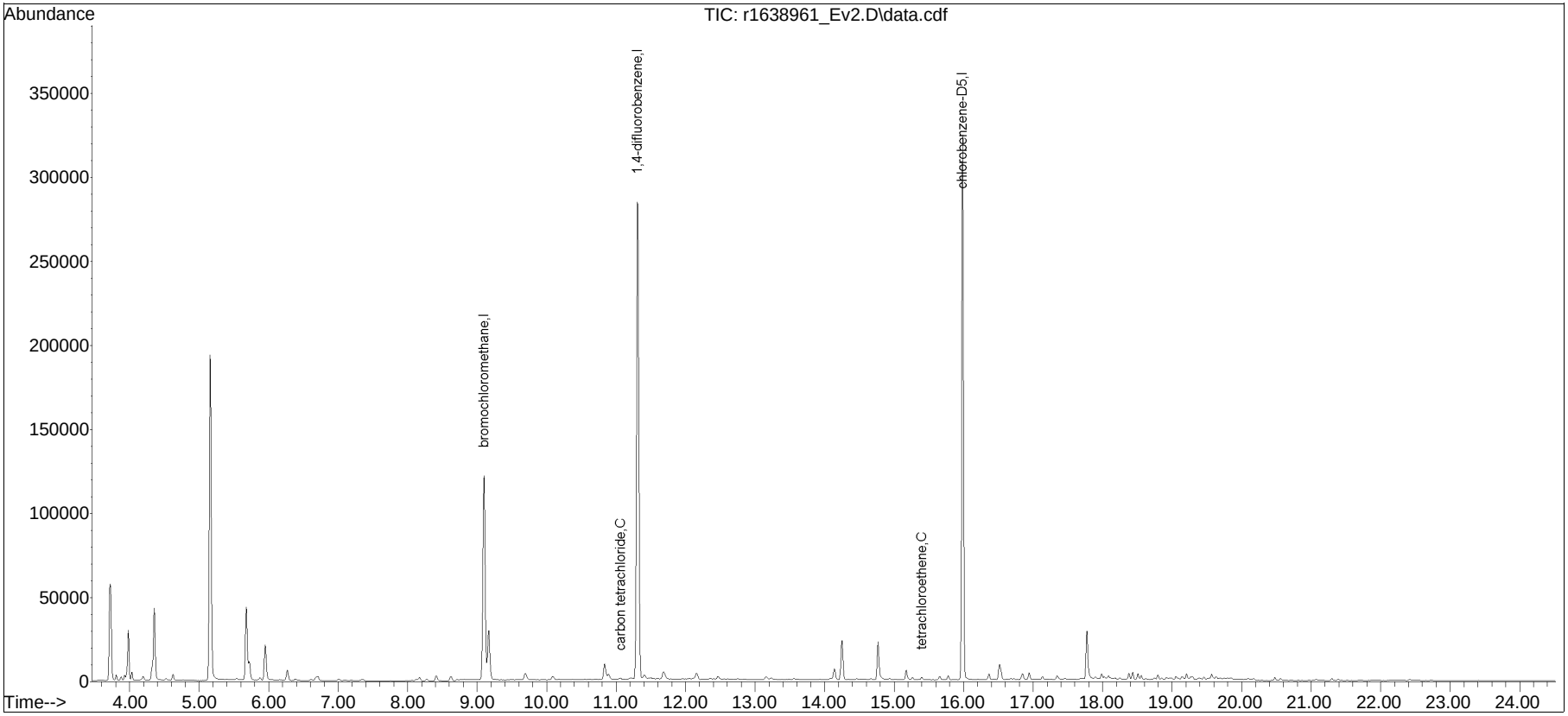
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	126812	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 103.98%			
33) 1,4-difluorobenzene	11.307	114	402282	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 96.36%			
51) chlorobenzene-D5	15.983	54	47999	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 100.31%			
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	8.917		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.067	117	536	0.073	ppbV #	90
44) trichloroethene	12.113		0	N.D.		
57) tetrachloroethene	15.400	166	785	0.068	ppbV	94

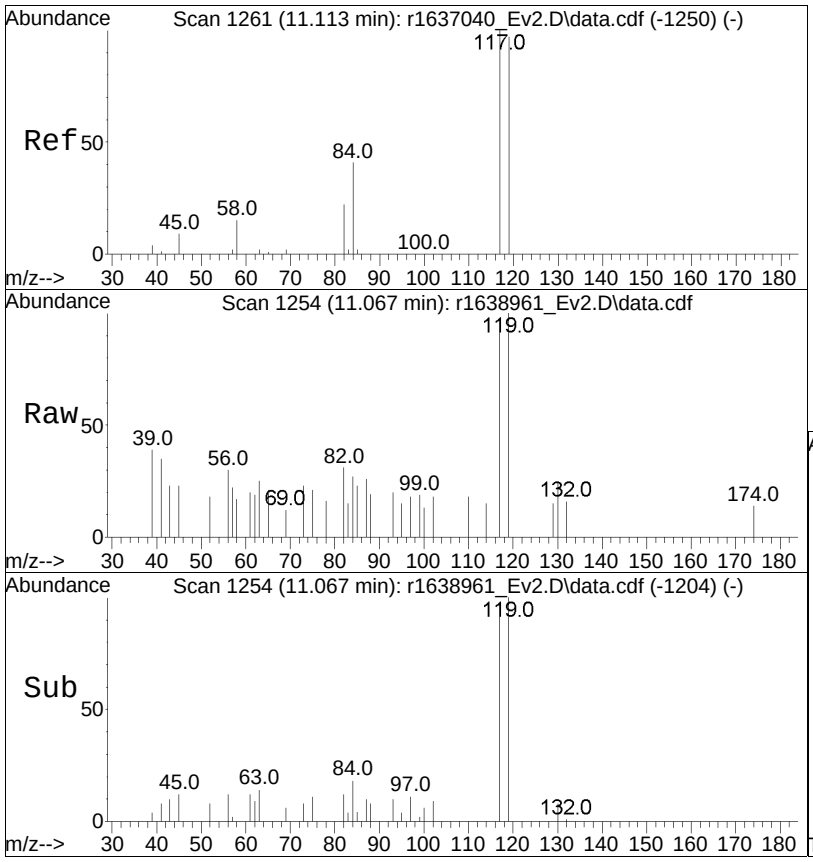
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638961_Ev2.D
Acq On : 22 Aug 2023 6:30 PM
Operator : AIRLAB16:APR
Sample : L2347540-02,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

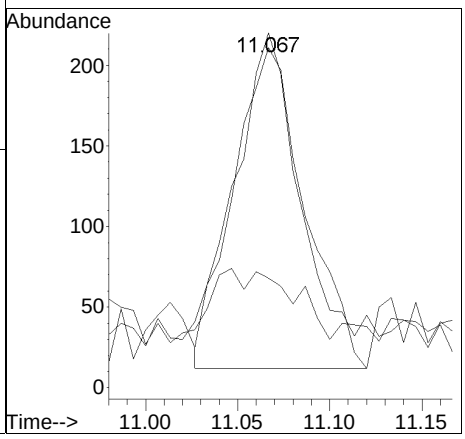


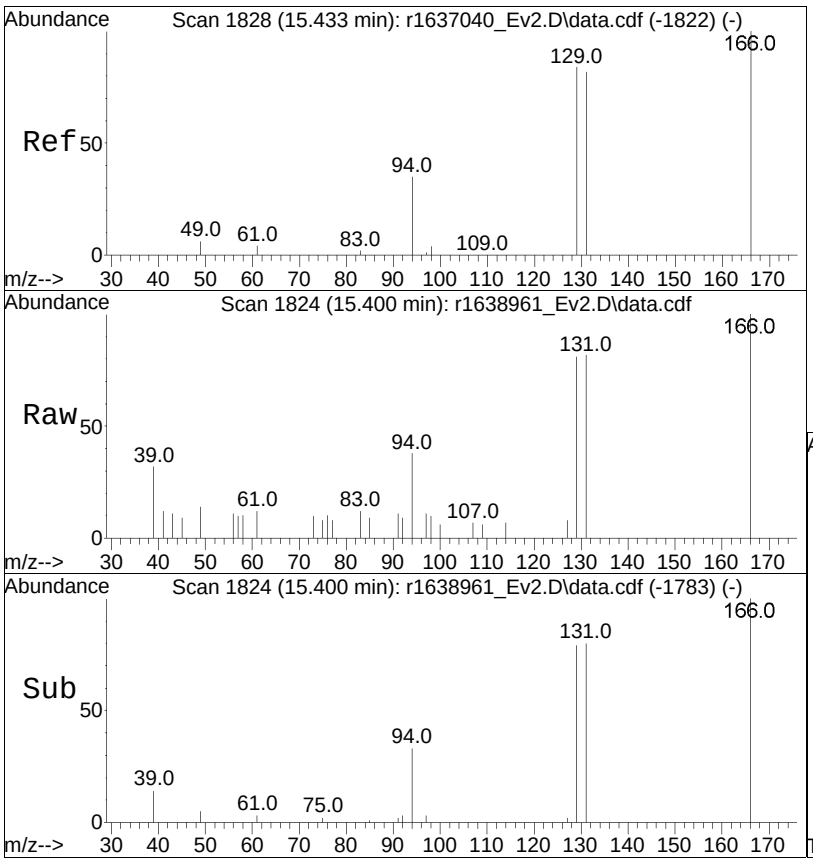


#38
carbon tetrachloride
Concen: 0.07 ppbV
RT: 11.067 min Scan# 1254
Delta R.T. 0.007 min
Lab File: r1638961_Ev2.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:117 Resp: 536

Ion	Ratio	Lower	Upper
117	100		
119	104.3	78.1	117.1
82	32.2	15.8	23.8#

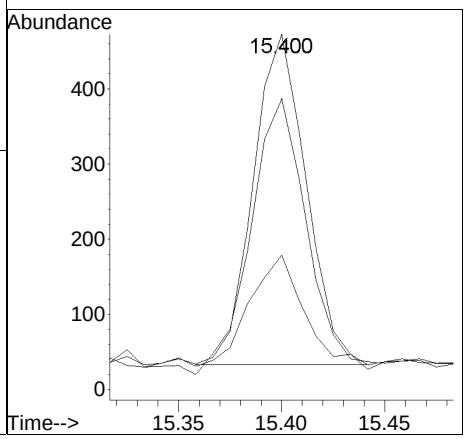




#57
tetrachloroethene
Concen: 0.07 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638961_Ev2.D
Acq: 22 Aug 2023 6:30 PM

Tgt Ion:166 Resp: 785

Ion	Ratio	Lower	Upper
166	100		
131	81.8	61.9	92.9
94	37.8	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638961_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:6: 0	Instrument	:
Sample	: L2347540-02,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638962_Ev2.D
Acq On : 22 Aug 2023 7:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-03,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:07 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

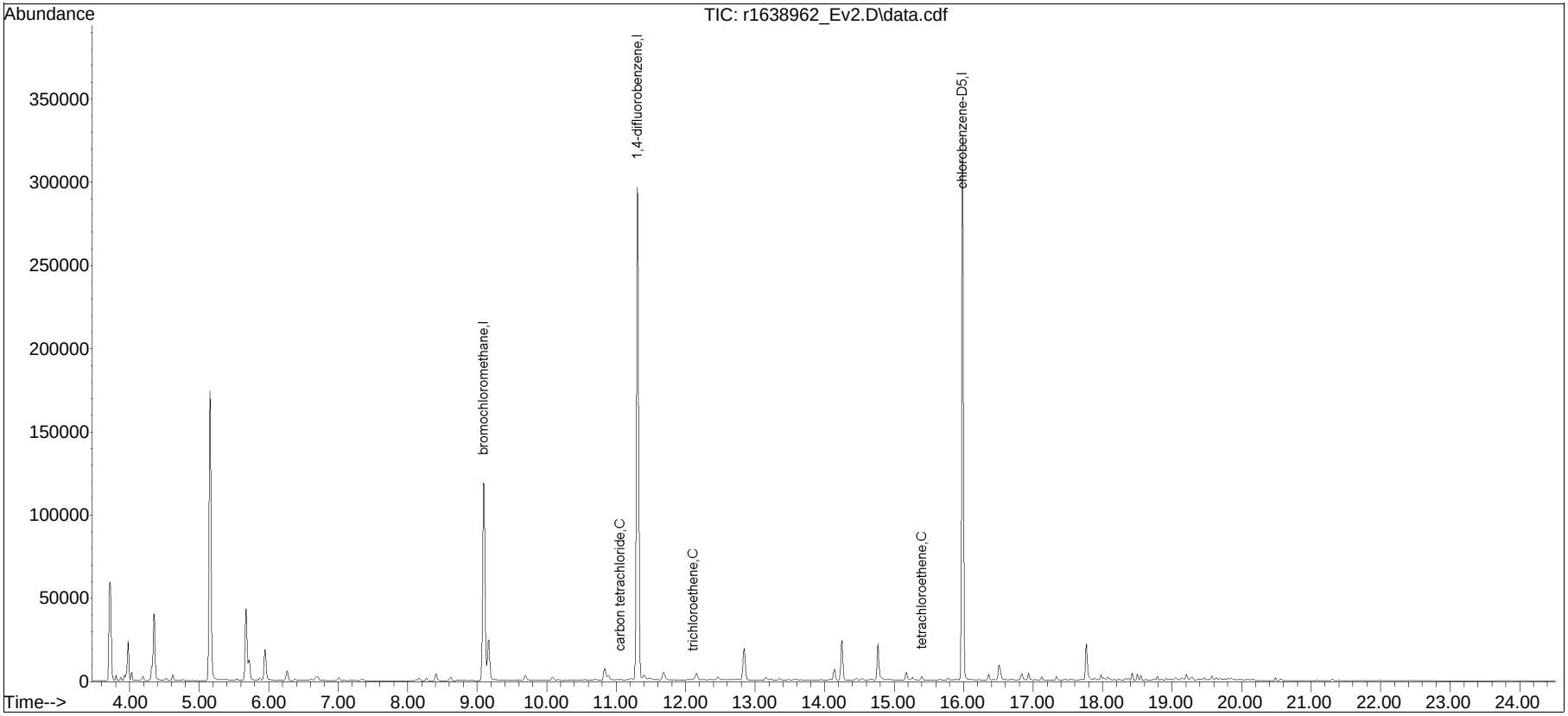
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	127433	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 104.48%			
33) 1,4-difluorobenzene	11.307	114	402216	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 96.34%			
51) chlorobenzene-D5	15.983	54	47980	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 100.27%			
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	11.060	117	452	0.062	ppbV #	80
44) trichloroethene	12.107	130	104	0.011	ppbV #	78
57) tetrachloroethene	15.400	166	1355	0.118	ppbV	99

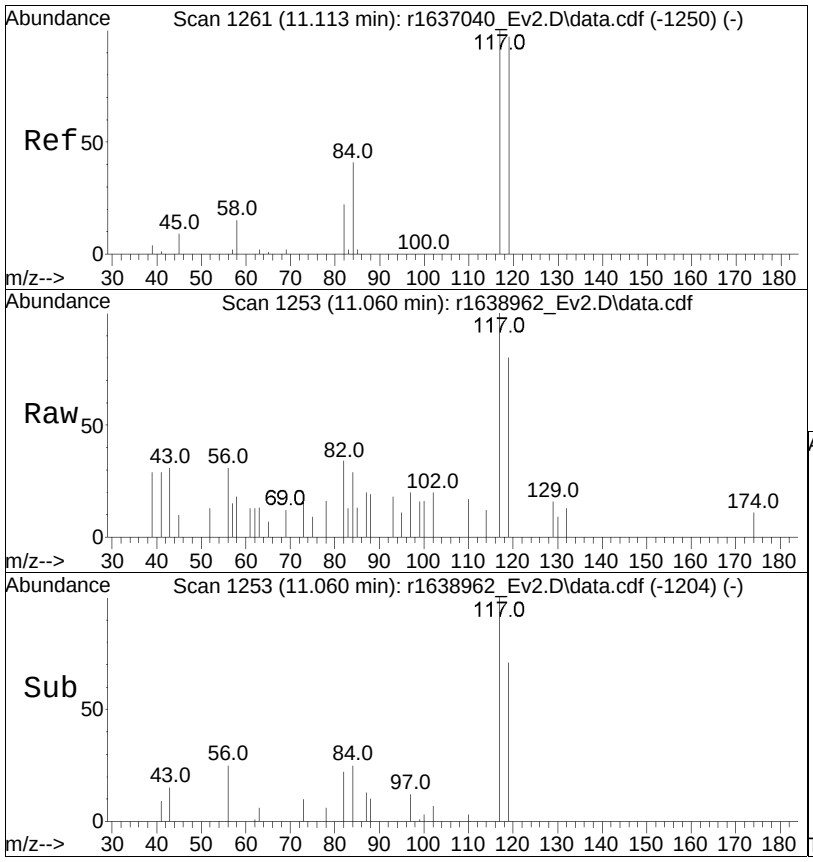
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638962_Ev2.D
Acq On : 22 Aug 2023 7:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-03,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:07 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

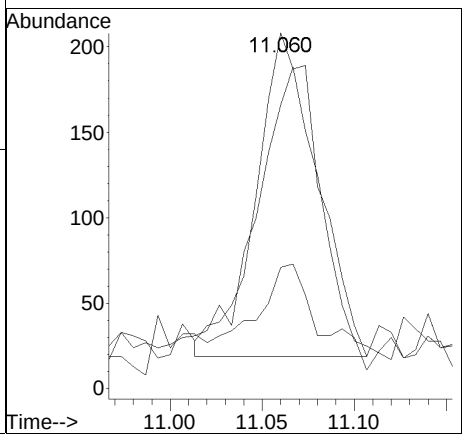


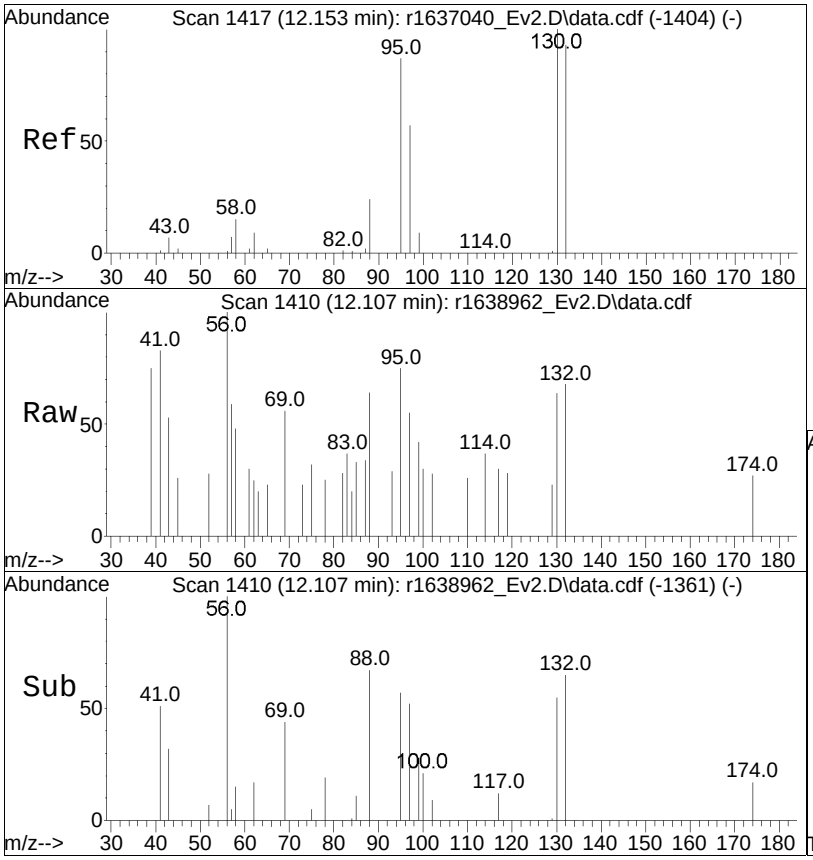


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638962_Ev2.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:117 Resp: 452

Ion	Ratio	Lower	Upper
117	100		
119	79.8	78.1	117.1
82	34.1	15.8	23.8#

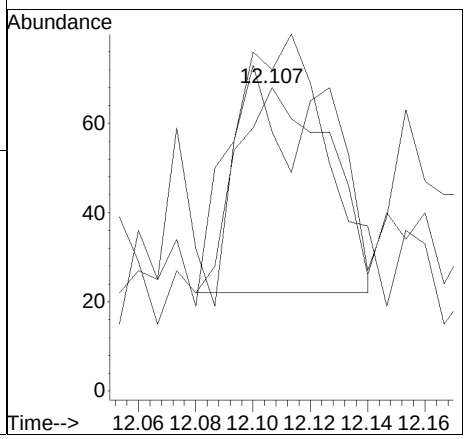


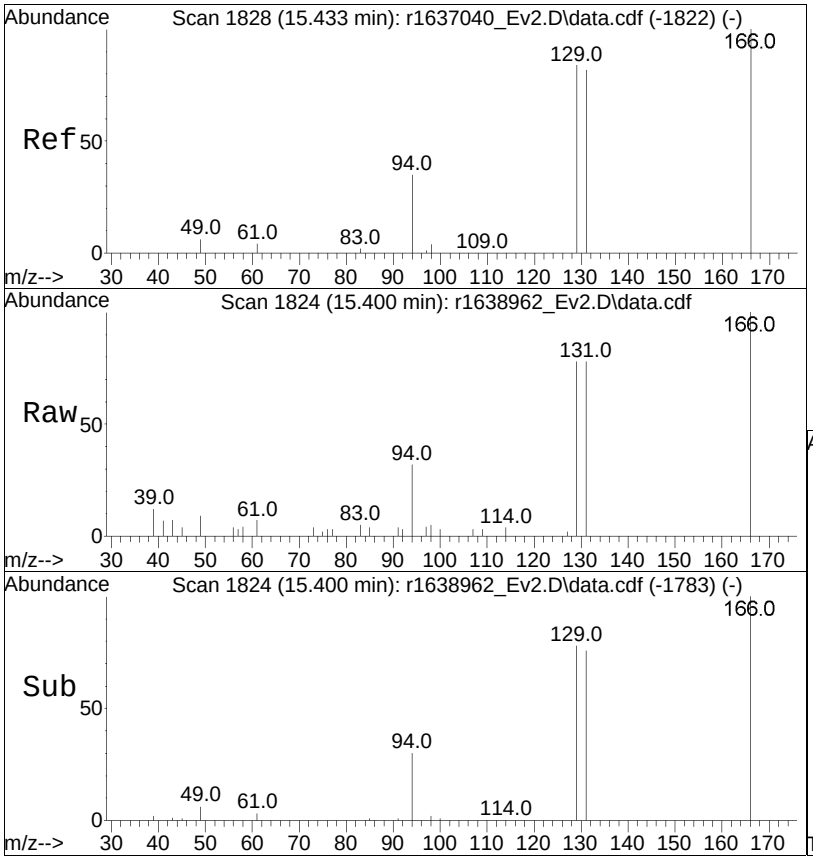


#44
trichloroethene
Concen: 0.01 ppbV
RT: 12.107 min Scan# 1410
Delta R.T. 0.000 min
Lab File: r1638962_Ev2.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:130 Resp: 104

Ion	Ratio	Lower	Upper
130	100		
132	105.9	74.7	112.1
97	85.3	46.2	69.4#

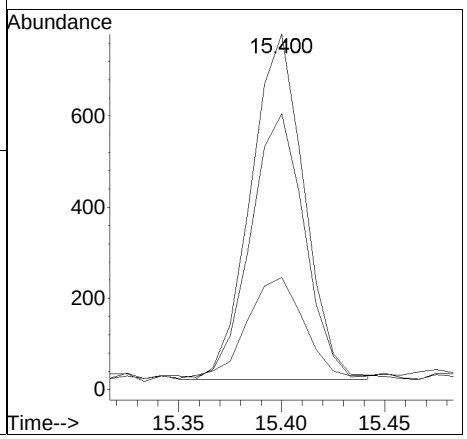




#57
tetrachloroethene
Concen: 0.12 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638962_Ev2.D
Acq: 22 Aug 2023 7:09 PM

Tgt Ion:166 Resp: 1355

Ion	Ratio	Lower	Upper
166	100		
131	77.6	61.9	92.9
94	31.5	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638962_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:7: 9	Instrument	:
Sample	: L2347540-03,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638963_Ev2.D
Acq On : 22 Aug 2023 7:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-04,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:14 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

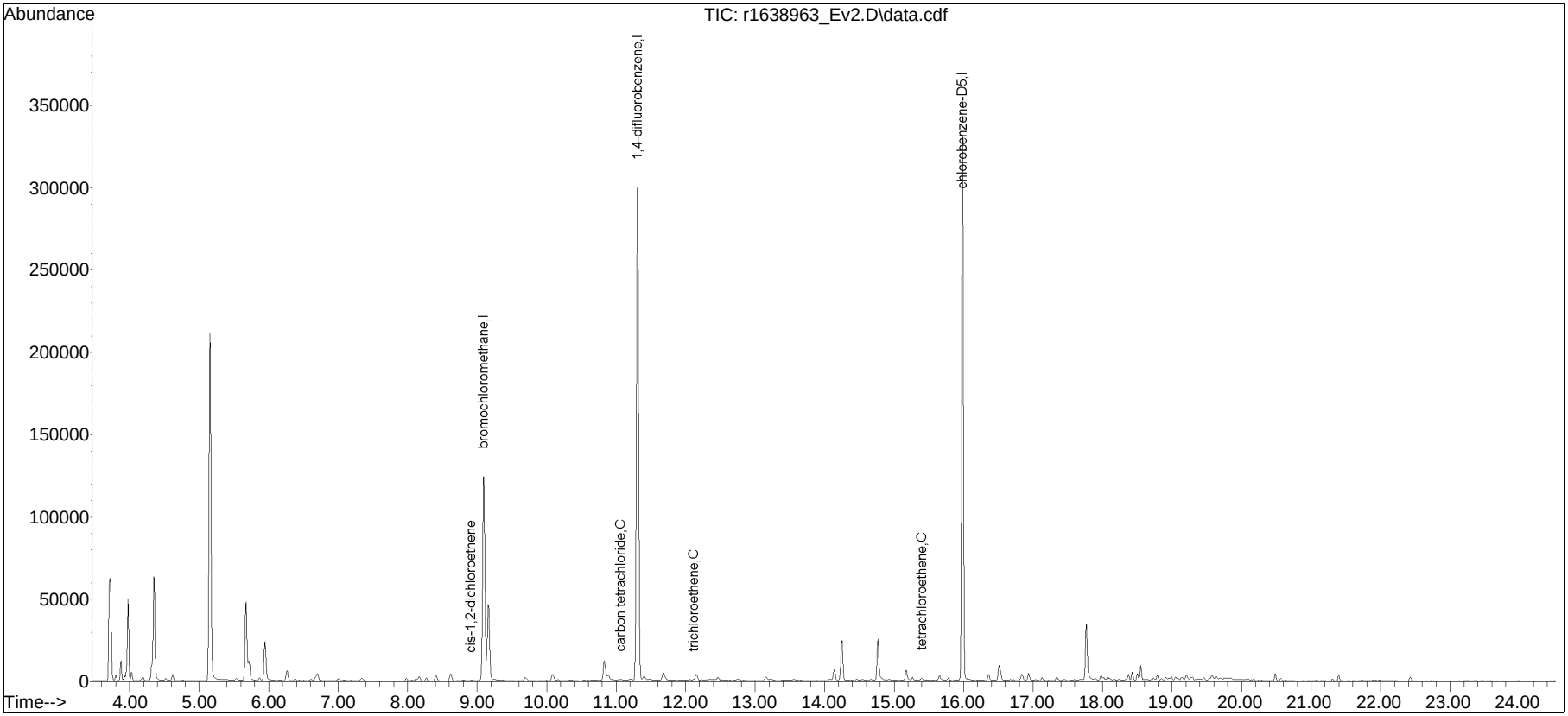
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	130370	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 106.89%			
33) 1,4-difluorobenzene	11.307	114	410949	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 98.43%			
51) chlorobenzene-D5	15.983	54	48715	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 101.81%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.504		0	N.D.		
28) cis-1,2-dichloroethene	8.908	61	99	0.011	ppbV	97
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.067	117	429	0.057	ppbV #	93
44) trichloroethene	12.113	130	174	0.018	ppbV #	87
57) tetrachloroethene	15.400	166	847	0.073	ppbV	96

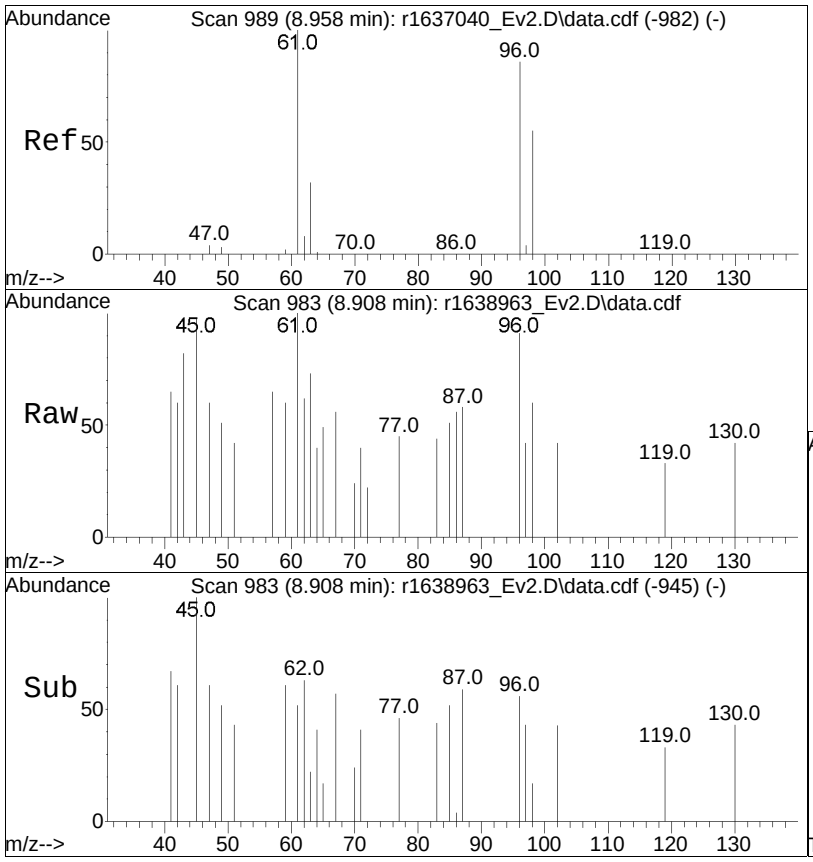
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638963_Ev2.D
Acq On : 22 Aug 2023 7:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-04,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:14 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

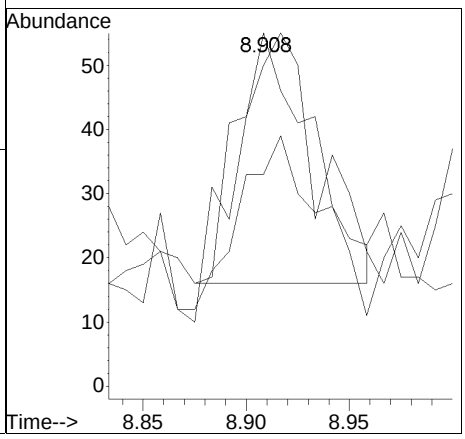


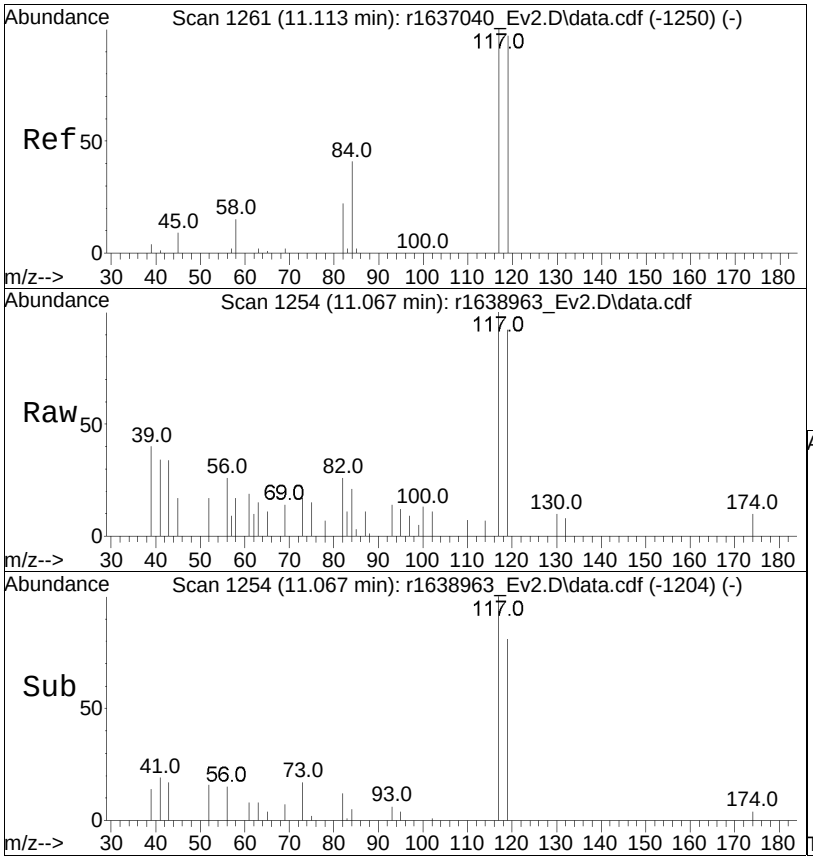


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 8.908 min Scan# 983
Delta R.T. 0.000 min
Lab File: r1638963_Ev2.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion: 61 Resp: 99

Ion	Ratio	Lower	Upper
61	100		
96	90.9	71.1	106.7
98	60.0	45.0	67.4

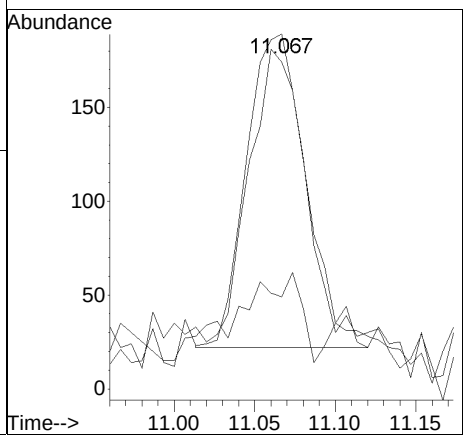


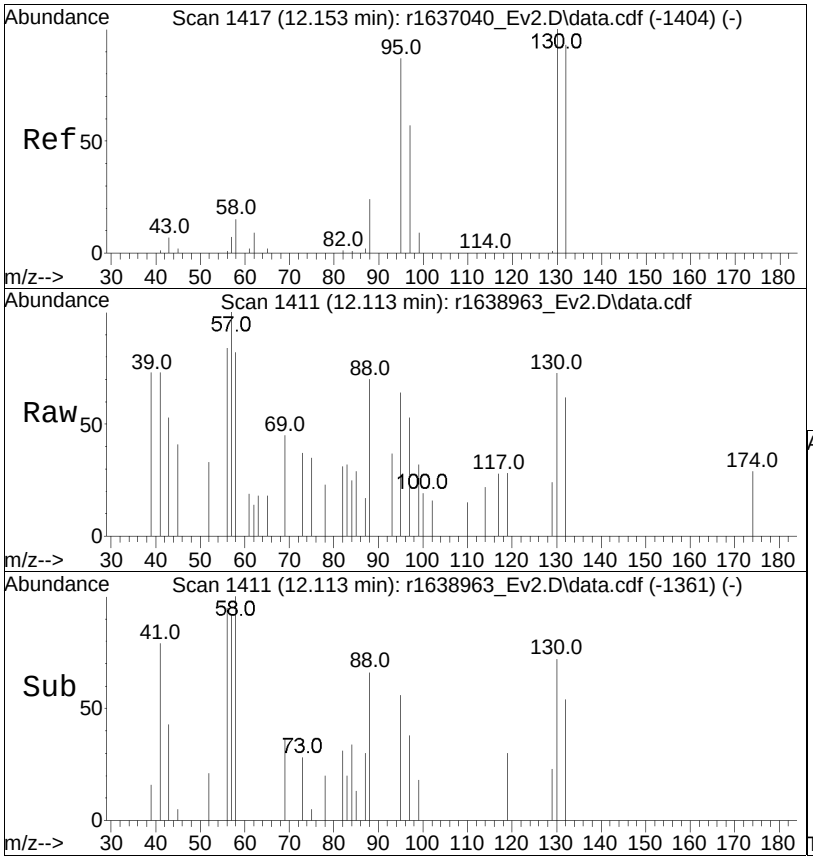


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.067 min Scan# 1254
Delta R.T. 0.007 min
Lab File: r1638963_Ev2.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:117 Resp: 429

Ion	Ratio	Lower	Upper
117	100		
119	92.1	78.1	117.1
82	25.9	15.8	23.8#

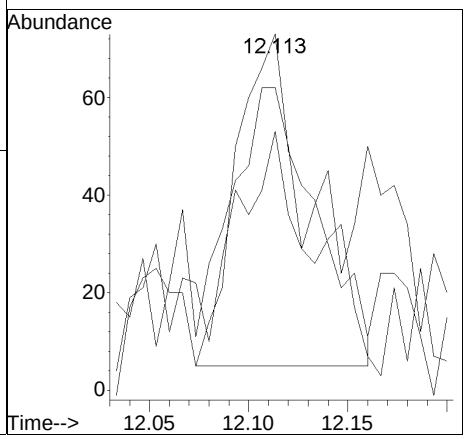


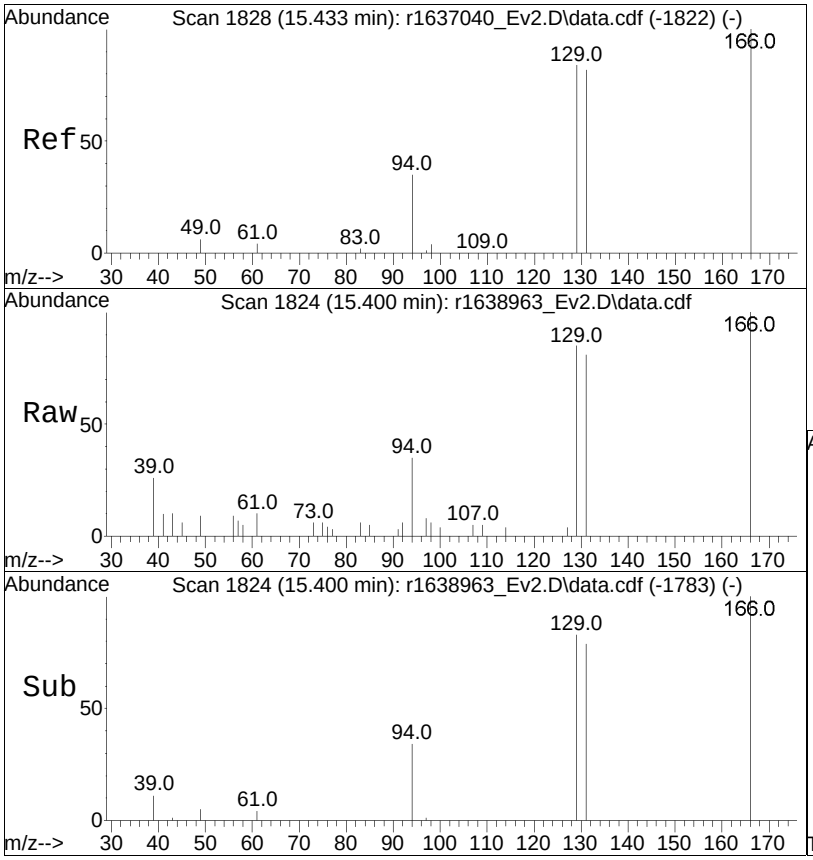


#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.113 min Scan# 1411
Delta R.T. 0.007 min
Lab File: r1638963_Ev2.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:130 Resp: 174

Ion	Ratio	Lower	Upper
130	100		
132	84.9	74.7	112.1
97	72.6	46.2	69.4#

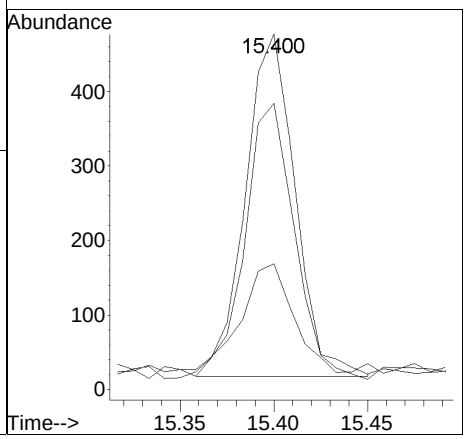




#57
tetrachloroethene
Concen: 0.07 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638963_Ev2.D
Acq: 22 Aug 2023 7:49 PM

Tgt Ion:166 Resp: 847

Ion	Ratio	Lower	Upper
166	100		
131	80.5	61.9	92.9
94	35.4	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638963_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:7: 9	Instrument	:
Sample	: L2347540-04,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638964_Ev2.D
Acq On : 22 Aug 2023 8:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-05,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:22 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

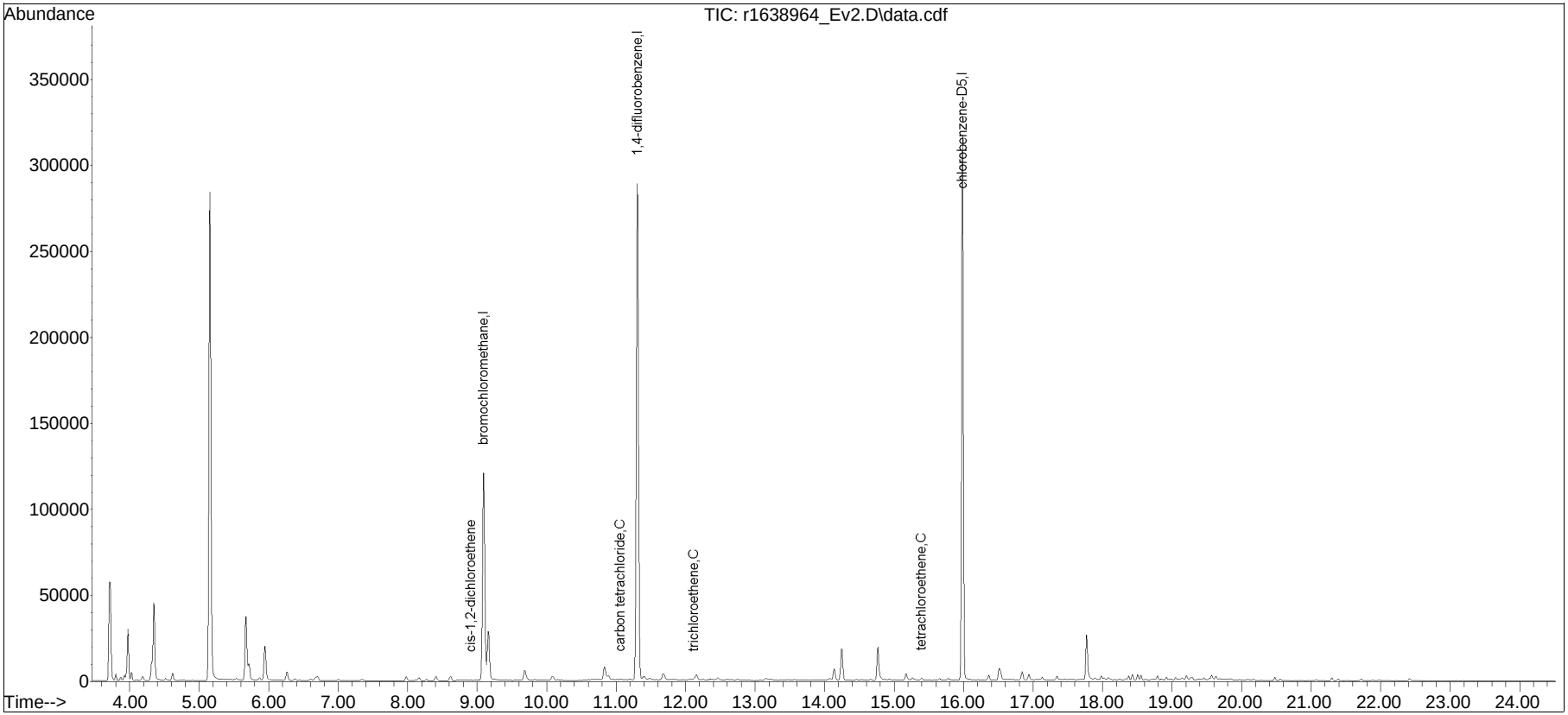
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	125899	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 103.23%			
33) 1,4-difluorobenzene	11.307	114	393250	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 94.19%			
51) chlorobenzene-D5	15.983	54	47294	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 98.84%			
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	8.908	61	130	0.015	ppbV #	88
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.060	117	454	0.063	ppbV #	96
44) trichloroethene	12.113	130	181M1	0.019	ppbV	
57) tetrachloroethene	15.392	166	734	0.065	ppbV	97

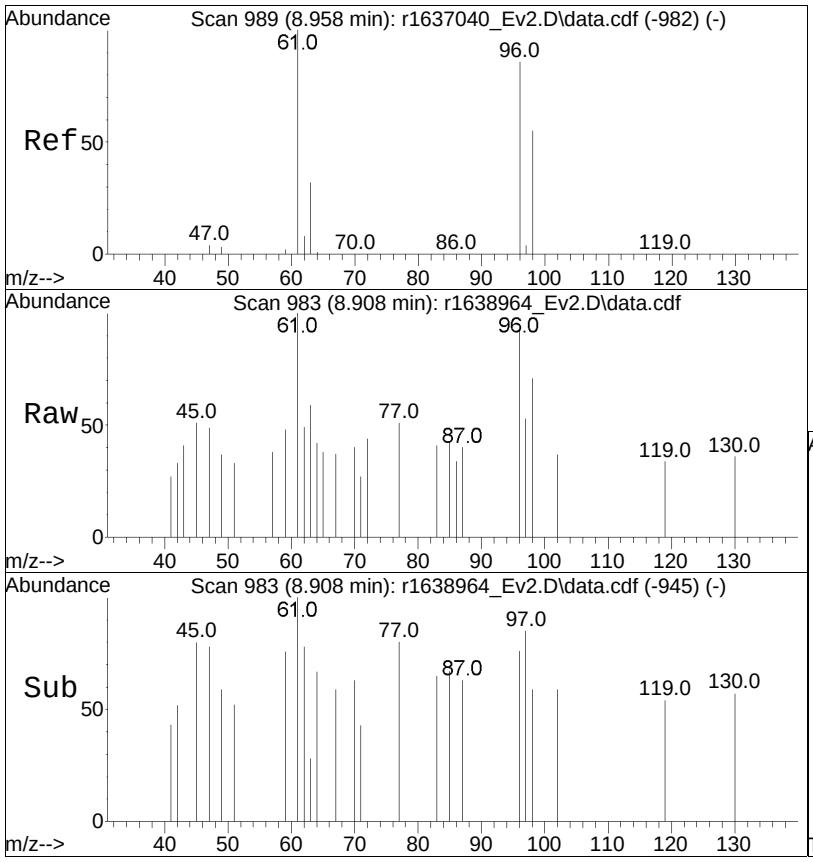
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638964_Ev2.D
Acq On : 22 Aug 2023 8:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-05,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:22 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

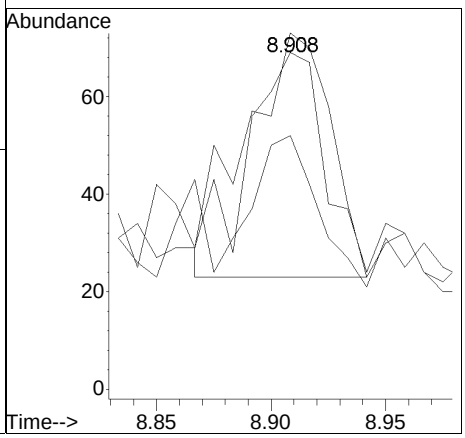


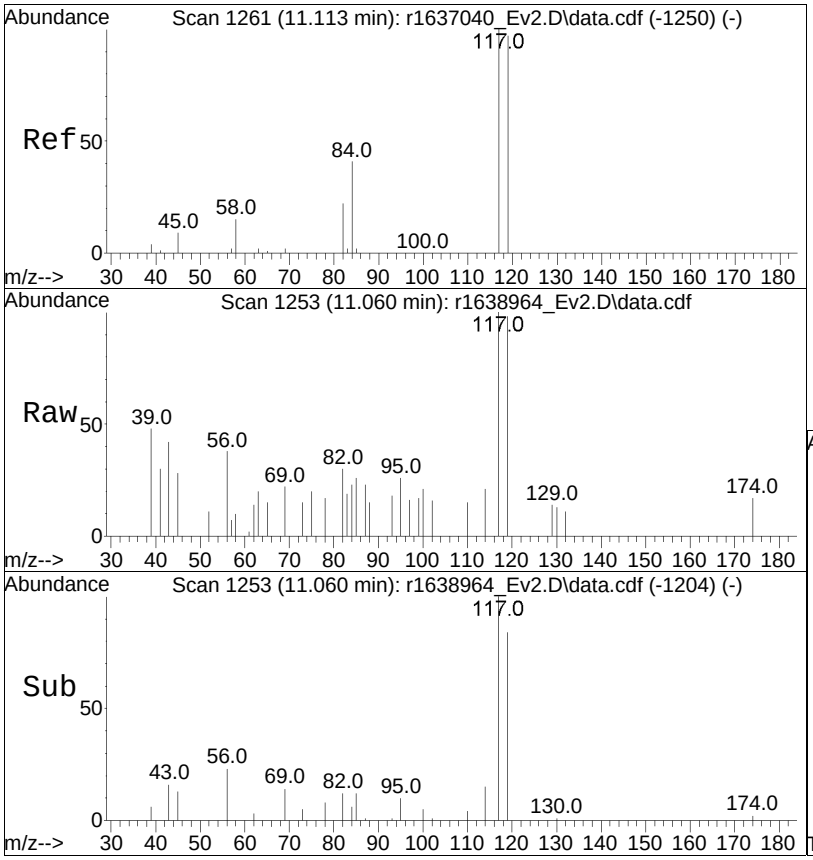


#28
cis-1,2-dichloroethene
Concen: 0.02 ppbV
RT: 8.908 min Scan# 983
Delta R.T. 0.000 min
Lab File: r1638964_Ev2.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion: 61 Resp: 130

Ion	Ratio	Lower	Upper
61	100		
96	94.5	71.1	106.7
98	71.2	45.0	67.4#

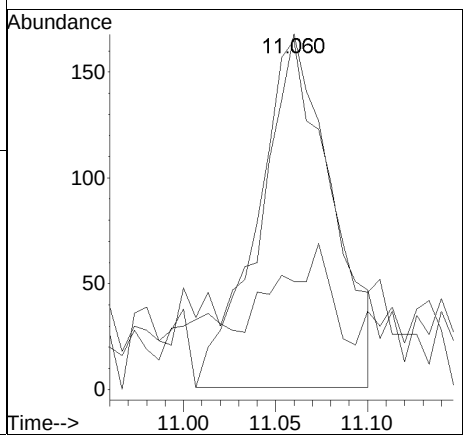


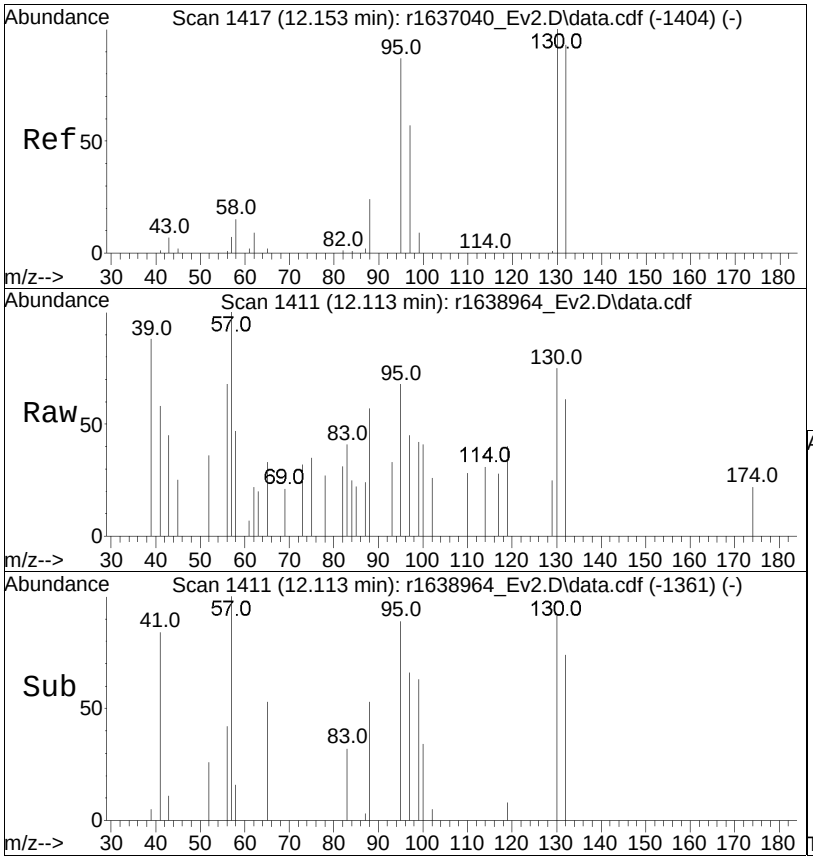


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638964_Ev2.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:117 Resp: 454

Ion	Ratio	Lower	Upper
117	100		
119	98.2	78.1	117.1
82	30.4	15.8	23.8#

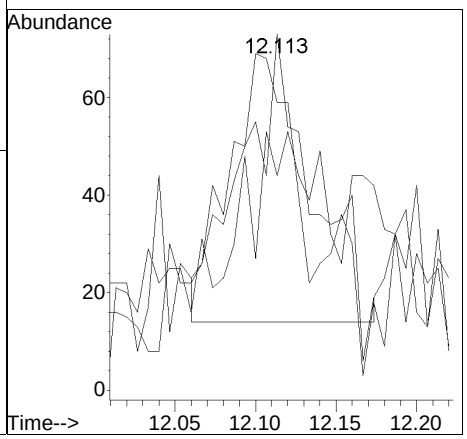


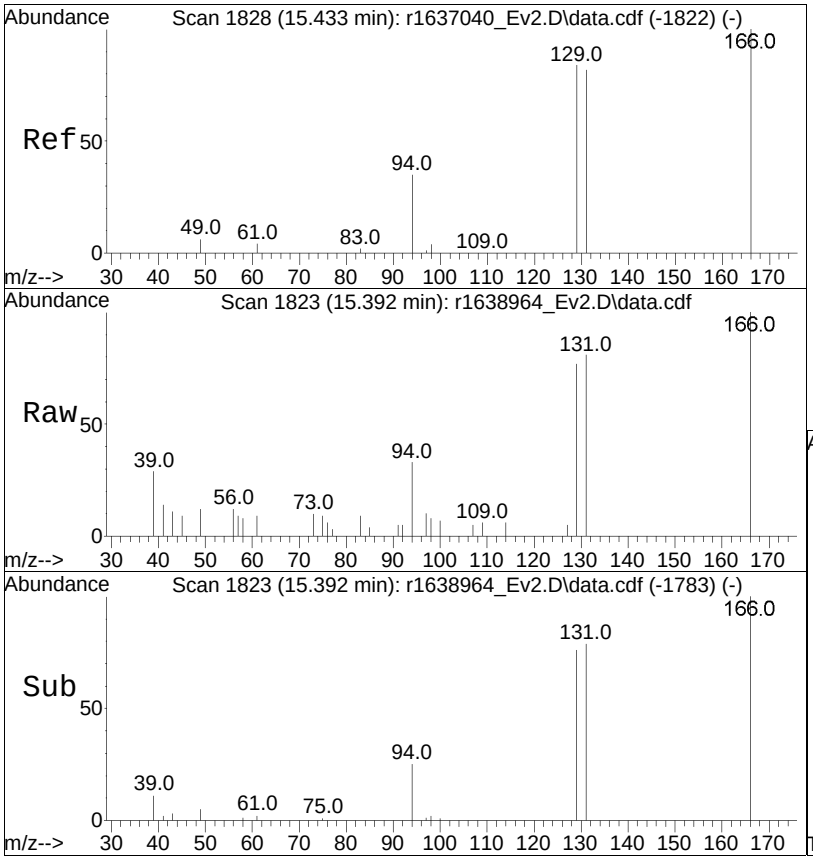


#44
trichloroethene
Concen: 0.02 ppbV m
RT: 12.113 min Scan# 1411
Delta R.T. 0.007 min
Lab File: r1638964_Ev2.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:130 Resp: 181

Ion	Ratio	Lower	Upper
130	100		
132	80.8	74.7	112.1
97	60.3	46.2	69.4

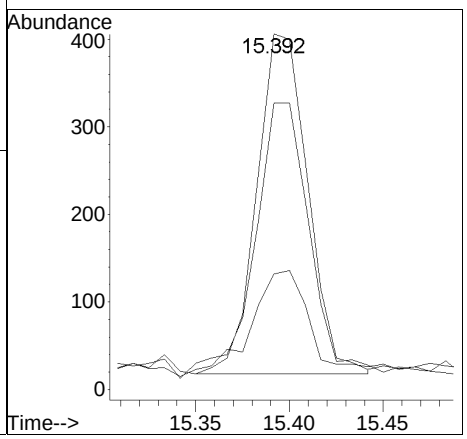




#57
tetrachloroethene
Concen: 0.06 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638964_Ev2.D
Acq: 22 Aug 2023 8:29 PM

Tgt Ion:166 Resp: 734

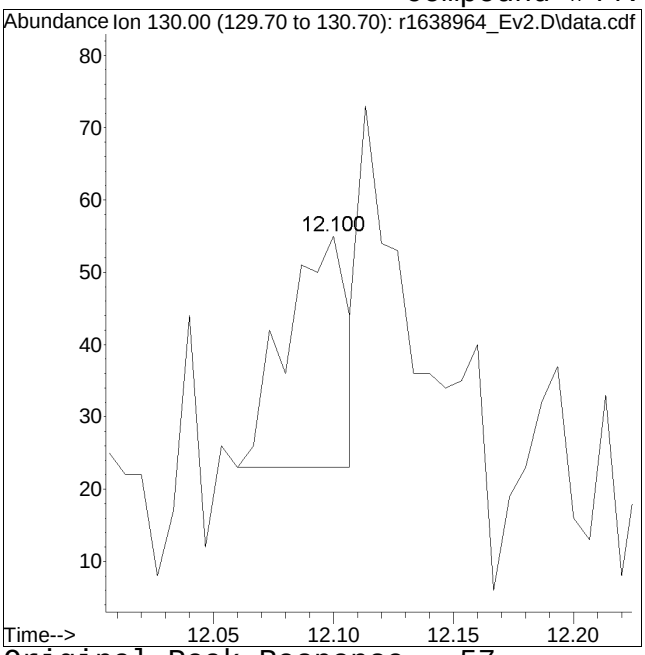
Ion	Ratio	Lower	Upper
166	100		
131	80.5	61.9	92.9
94	32.5	26.6	39.8



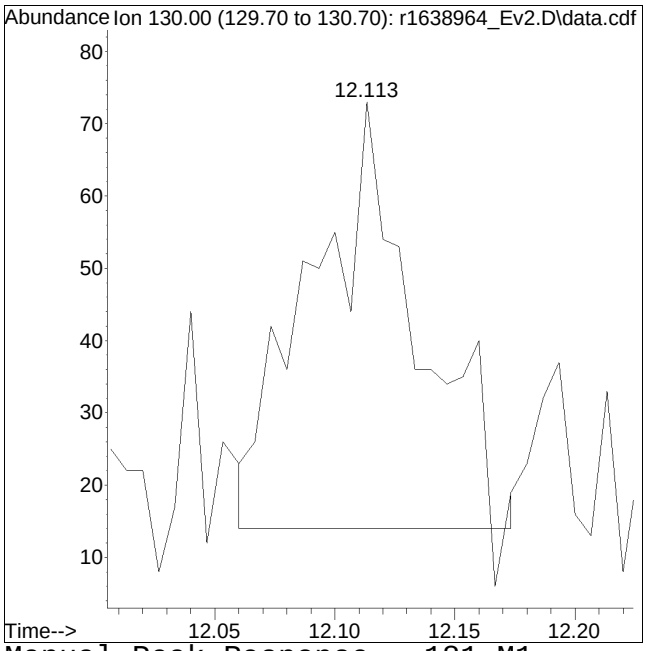
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638964_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:8: 9 Instrument :
Sample : L2347540-05,3,250,250 Quant Date : 8/23/2023 6:47 am

Compound #44: trichloroethene



Original Peak Response = 57



Manual Peak Response = 181 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638966_Ev2.D
Acq On : 22 Aug 2023 9:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-06,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:36 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

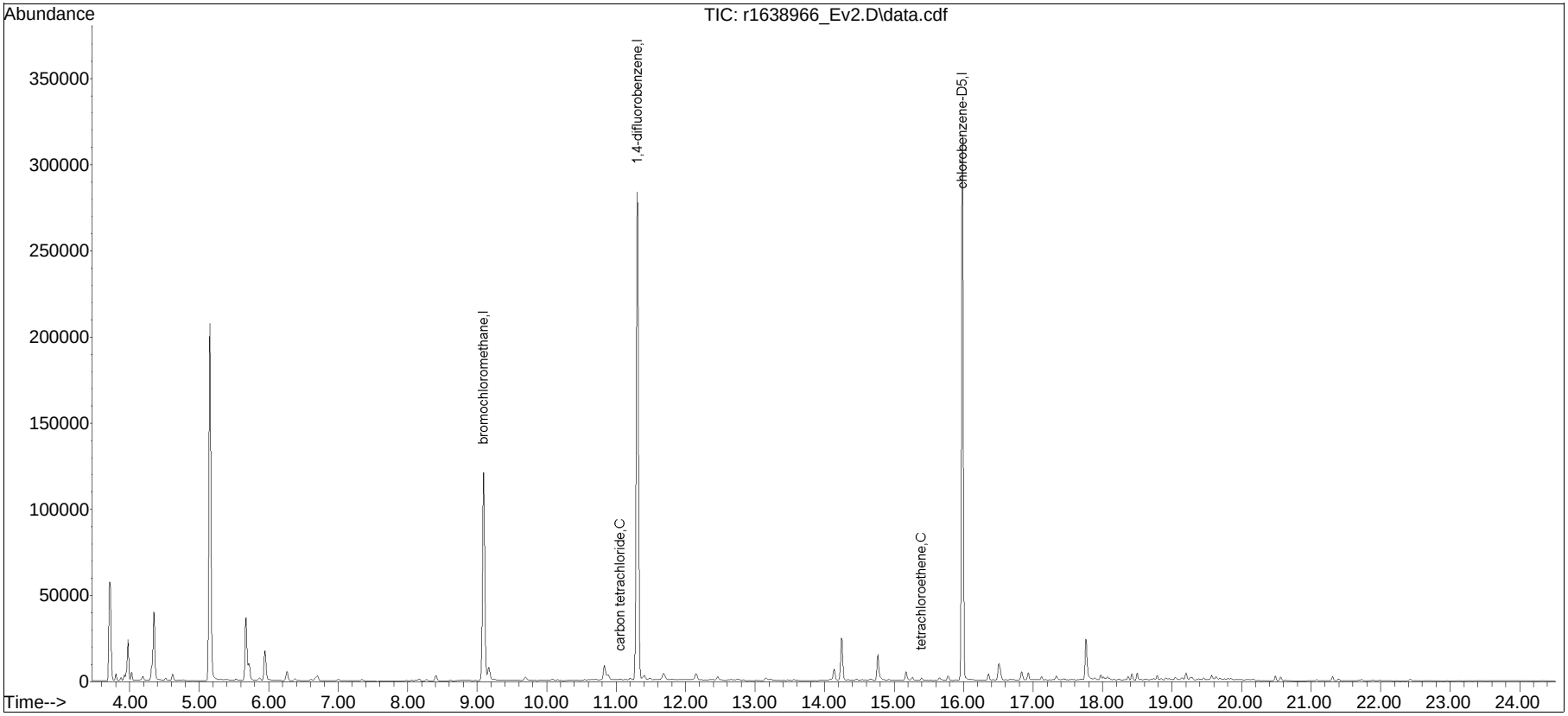
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	126067	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 103.36%			
33) 1,4-difluorobenzene	11.307	114	396139	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 94.89%			
51) chlorobenzene-D5	15.983	54	47070	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 98.37%			
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	8.908		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.060	117	434	0.060	ppbV #	88
44) trichloroethene	12.113		0	N.D.		
57) tetrachloroethene	15.392	166	874	0.078	ppbV	97

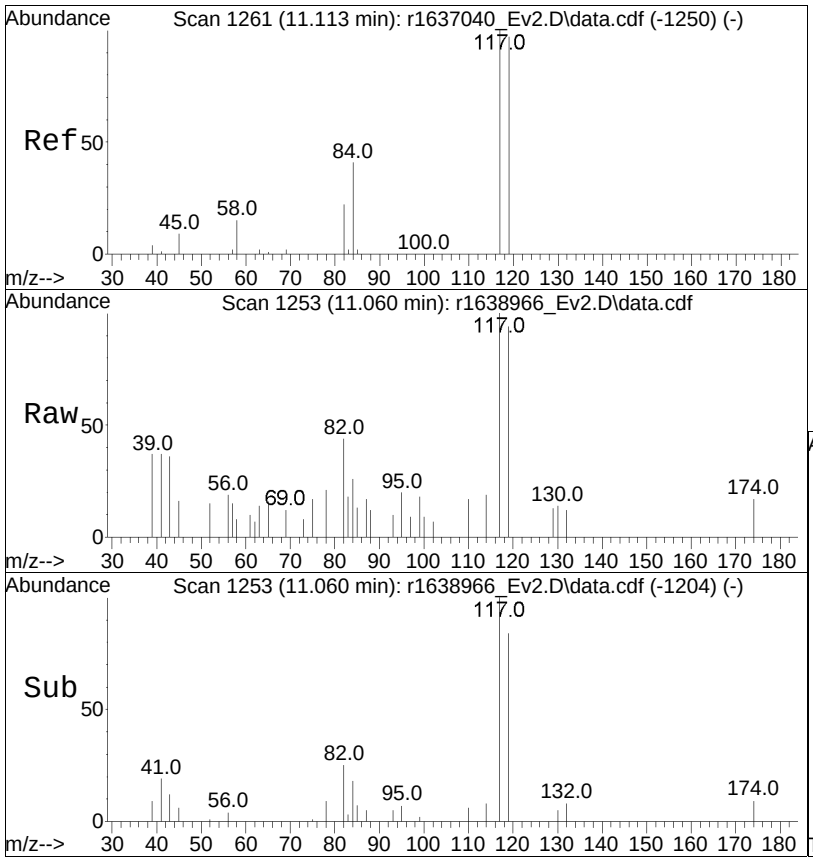
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638966_Ev2.D
Acq On : 22 Aug 2023 9:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-06,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:36 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

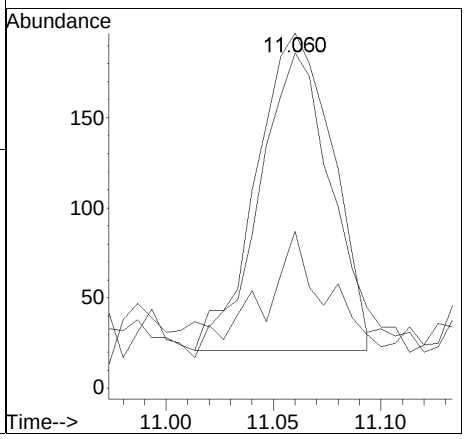


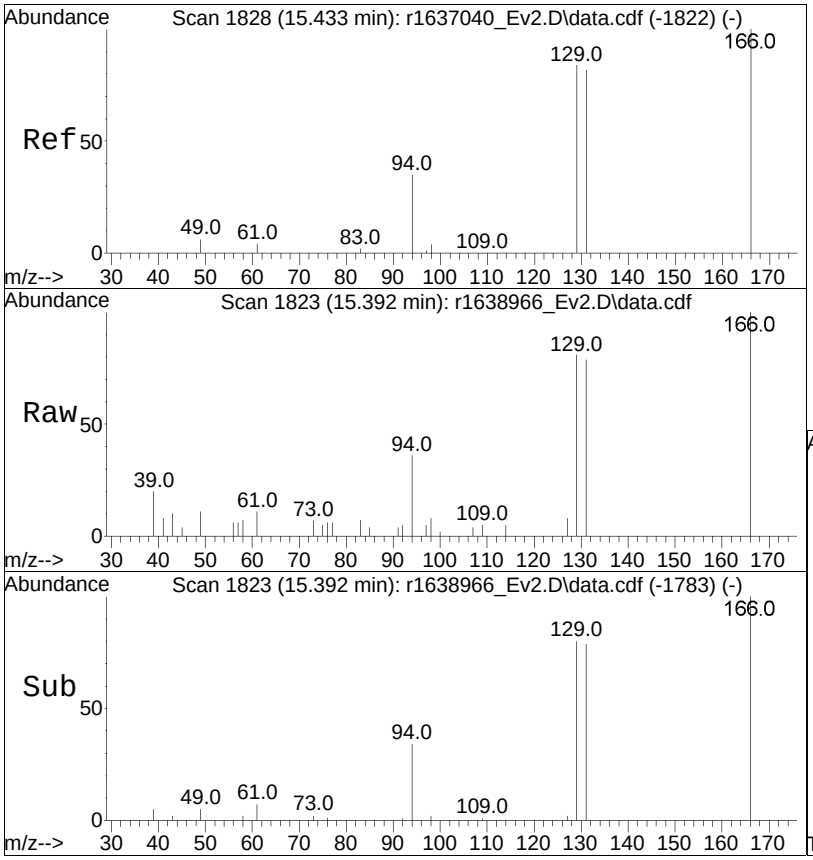


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638966_Ev2.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:117 Resp: 434

Ion	Ratio	Lower	Upper
117	100		
119	94.4	78.1	117.1
82	44.2	15.8	23.8#

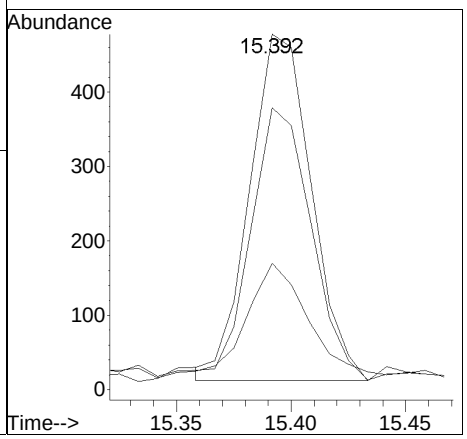




#57
tetrachloroethene
Concen: 0.08 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638966_Ev2.D
Acq: 22 Aug 2023 9:49 PM

Tgt Ion:166 Resp: 874

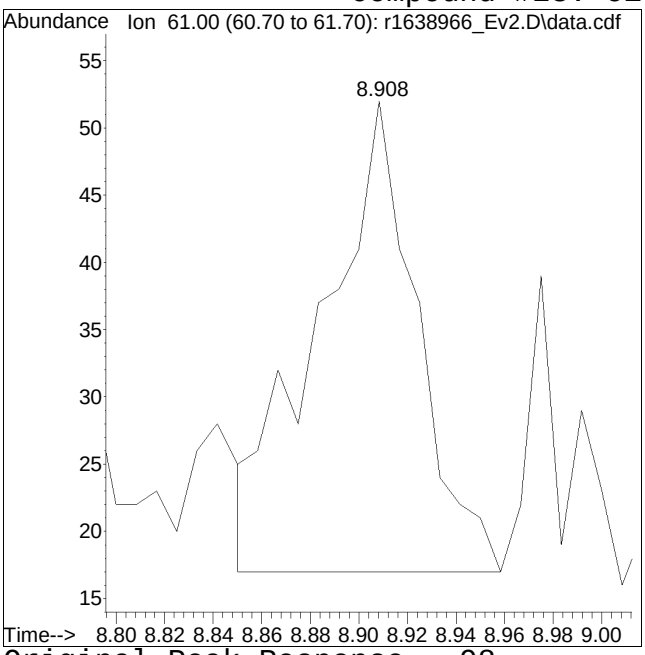
Ion	Ratio	Lower	Upper
166	100		
131	79.3	61.9	92.9
94	35.6	26.6	39.8



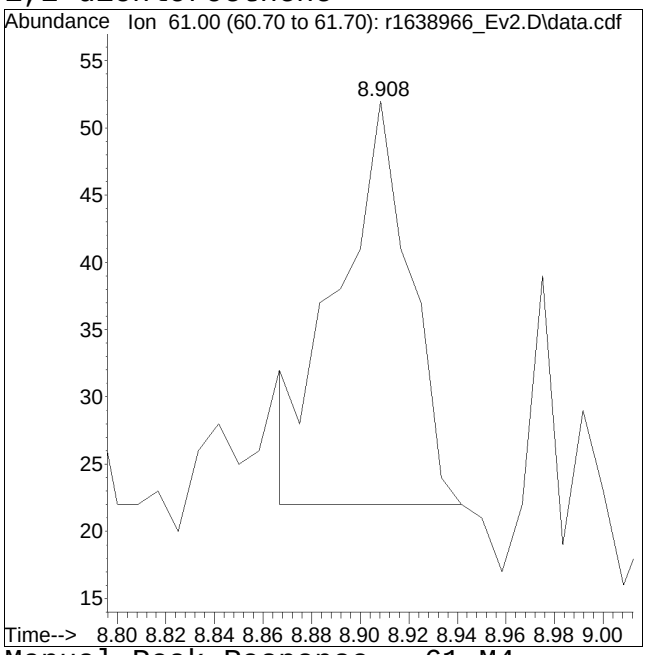
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638966_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : L2347540-06,3,250,250 Quant Date : 8/23/2023 6:47 am

Compound #28: cis-1,2-dichloroethene



Original Peak Response = 98



Manual Peak Response = 61 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638967_Ev2.D
Acq On : 22 Aug 2023 10:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-07,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

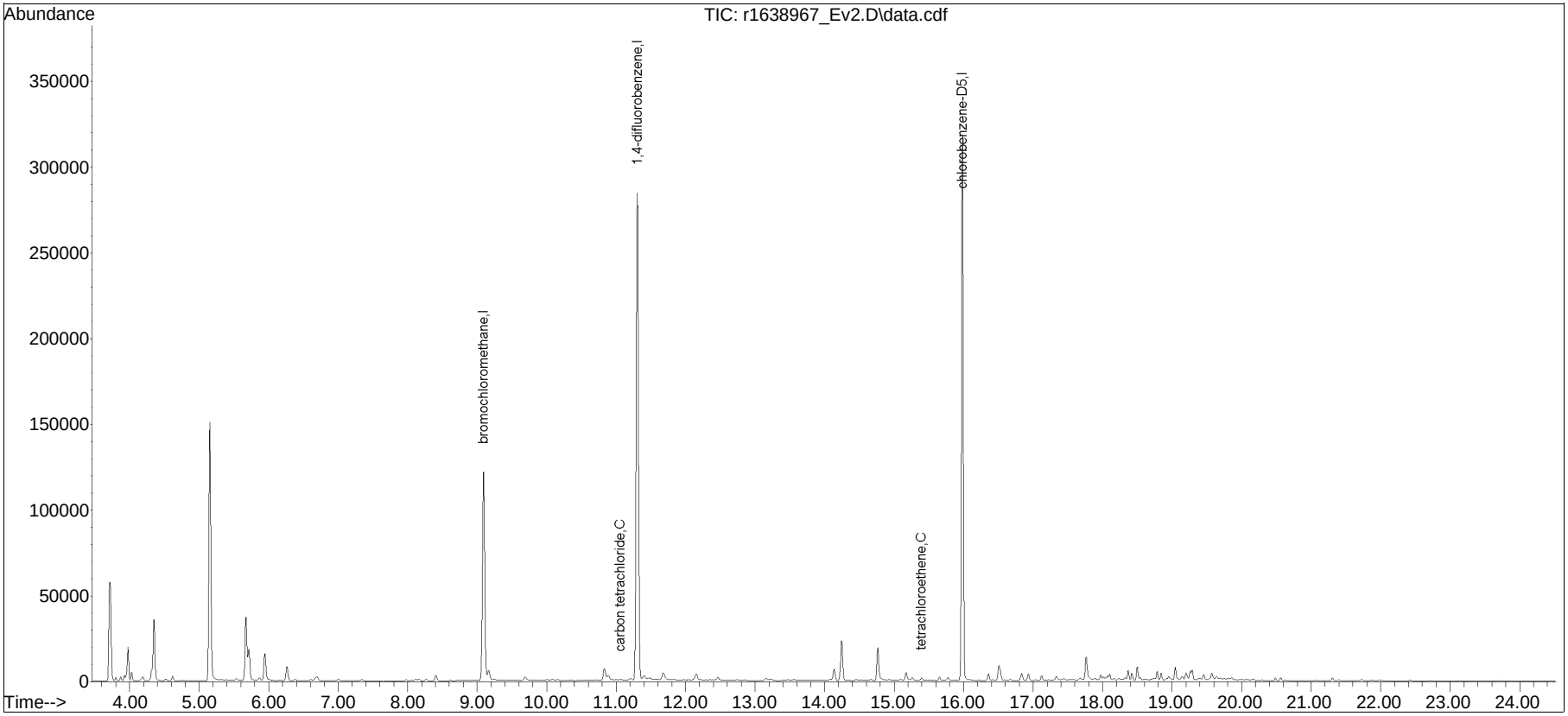
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	128031	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 104.98%			
33) 1,4-difluorobenzene	11.307	114	399902	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 95.79%			
51) chlorobenzene-D5	15.983	54	47730	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 99.75%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.504		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	11.060	117	453	0.062	ppbV #	89
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.392	166	764	0.067	ppbV	97

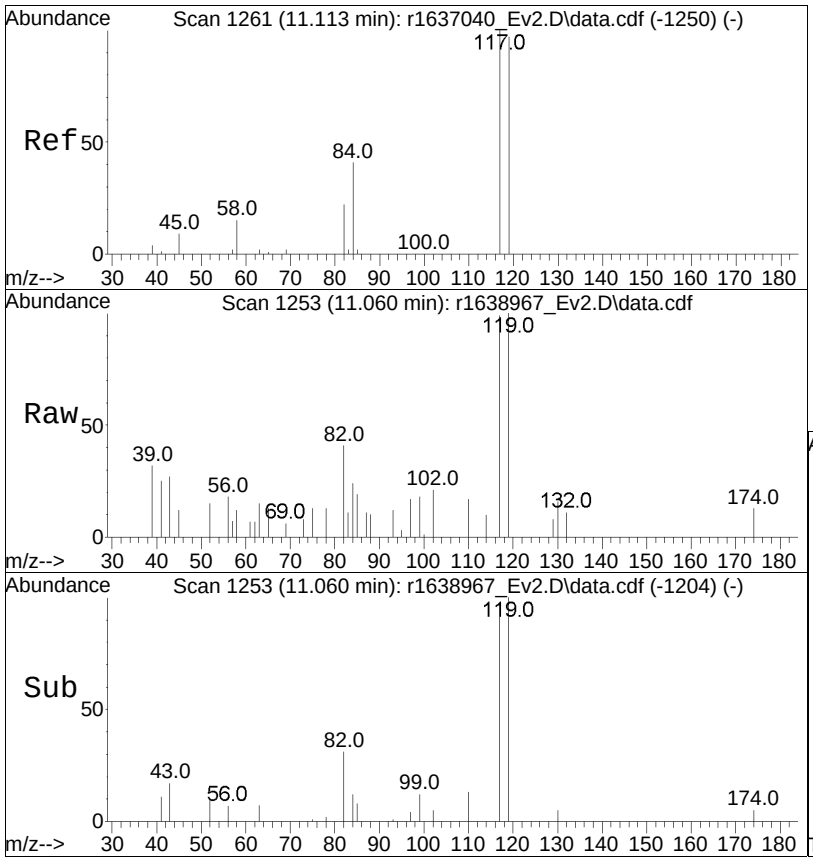
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638967_Ev2.D
Acq On : 22 Aug 2023 10:29 PM
Operator : AIRLAB16:APR
Sample : L2347540-07,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:43 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

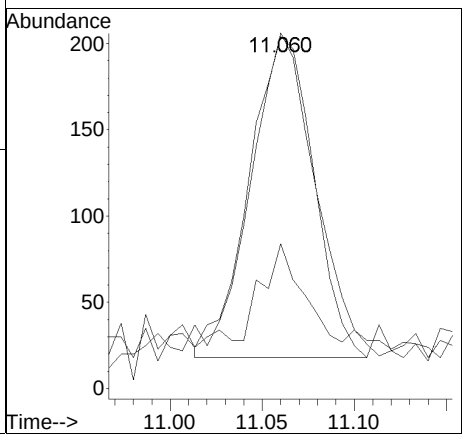


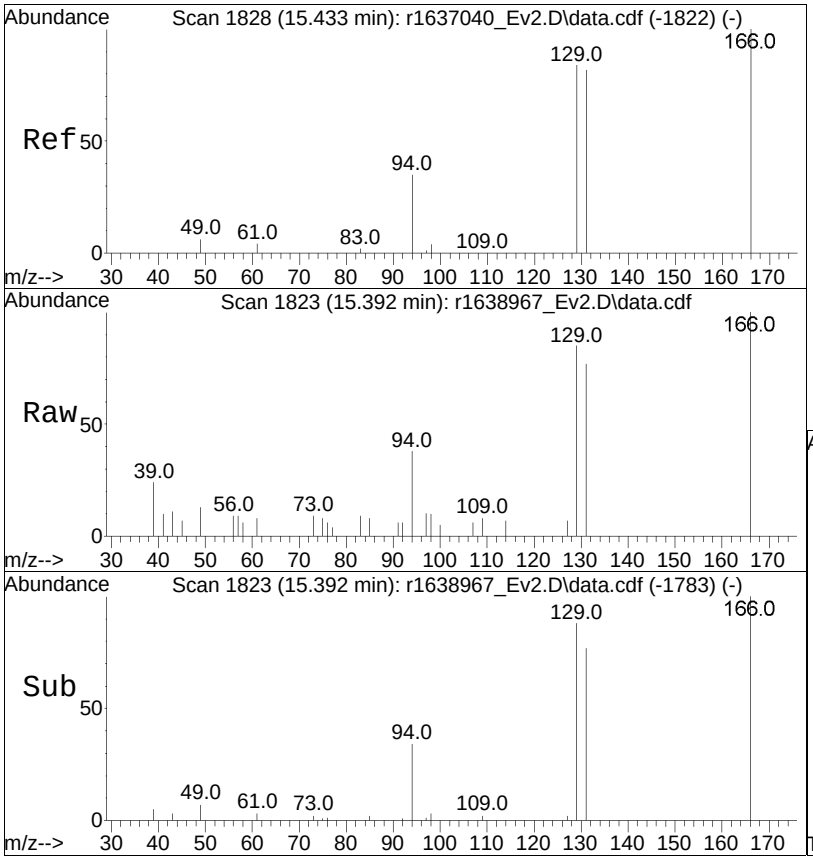


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638967_Ev2.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:117 Resp: 453

Ion	Ratio	Lower	Upper
117	100		
119	101.0	78.1	117.1
82	41.2	15.8	23.8#

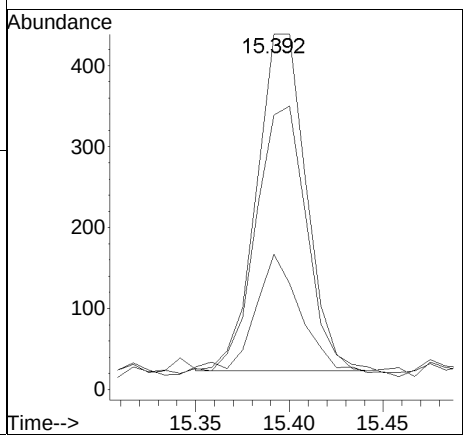




#57
tetrachloroethene
Concen: 0.07 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638967_Ev2.D
Acq: 22 Aug 2023 10:29 PM

Tgt Ion:166 Resp: 764

Ion	Ratio	Lower	Upper
166	100		
131	77.2	61.9	92.9
94	38.0	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638967_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:0: 9	Instrument	:
Sample	: L2347540-07,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638968_Ev2.D
Acq On : 22 Aug 2023 11:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-08,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

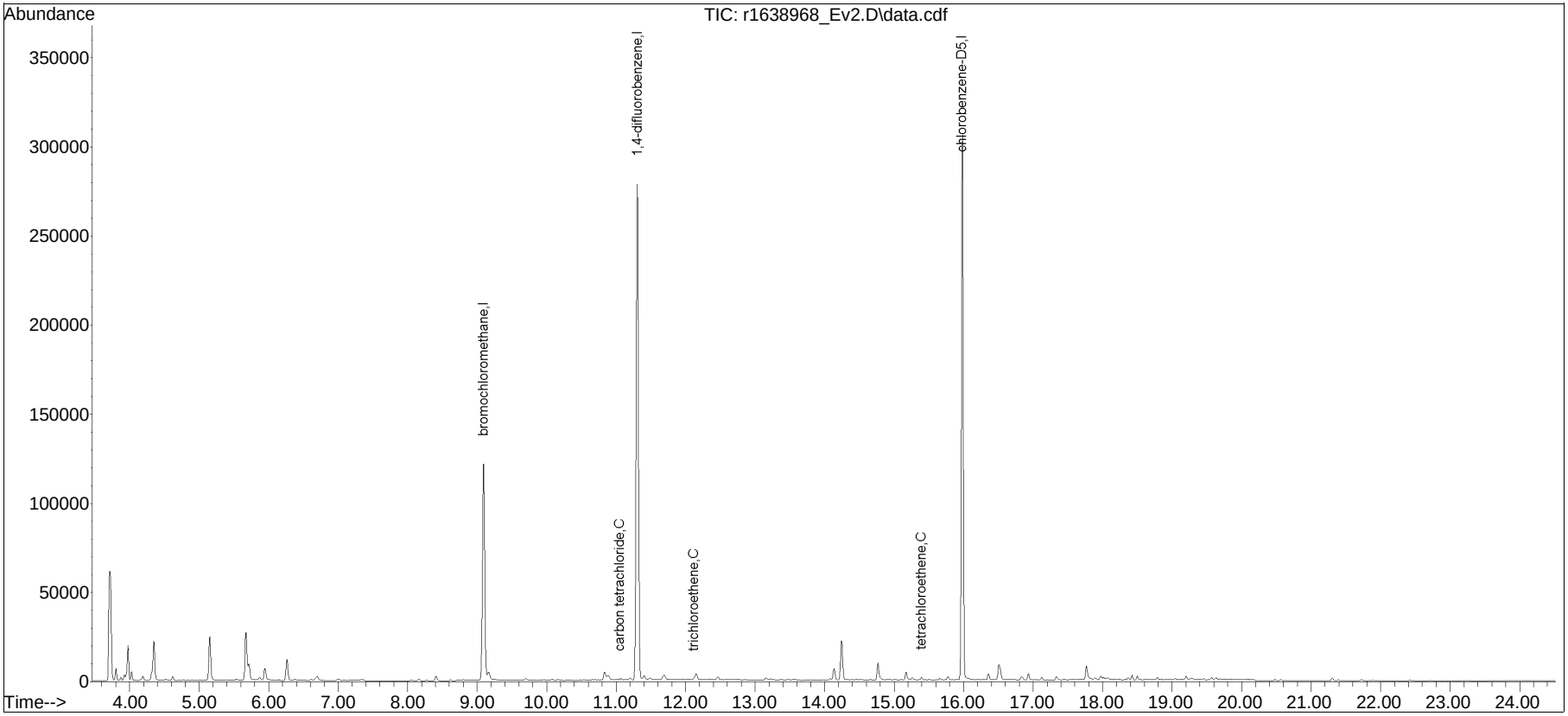
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	126406	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 103.64%			
33) 1,4-difluorobenzene	11.307	114	390996	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 93.65%			
51) chlorobenzene-D5	15.975	54	46416	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 97.00%			
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	8.900		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.053	117	560	0.079	ppbV #	95
44) trichloroethene	12.113	130	150	0.016	ppbV	96
57) tetrachloroethene	15.392	166	954	0.086	ppbV	98

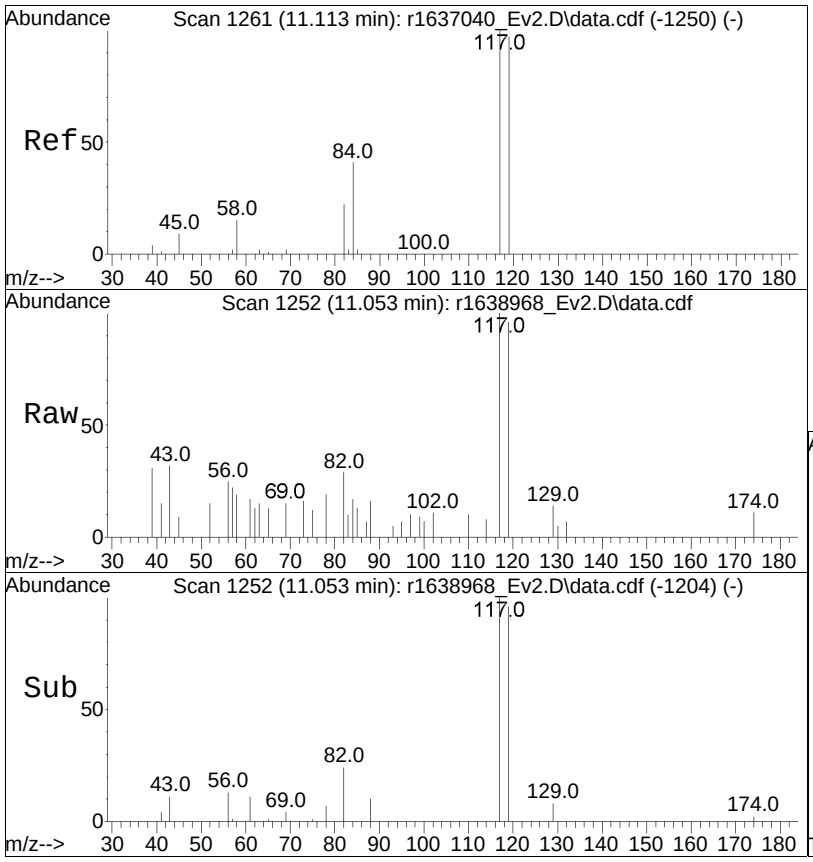
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638968_Ev2.D
Acq On : 22 Aug 2023 11:09 PM
Operator : AIRLAB16:APR
Sample : L2347540-08,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

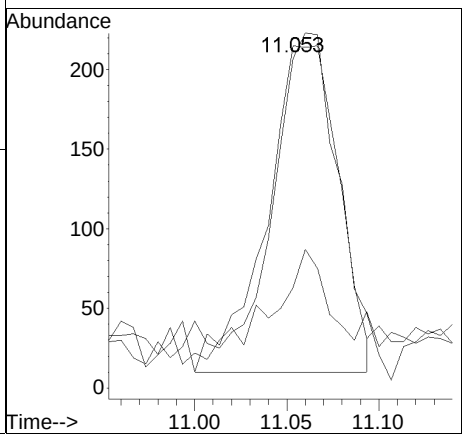


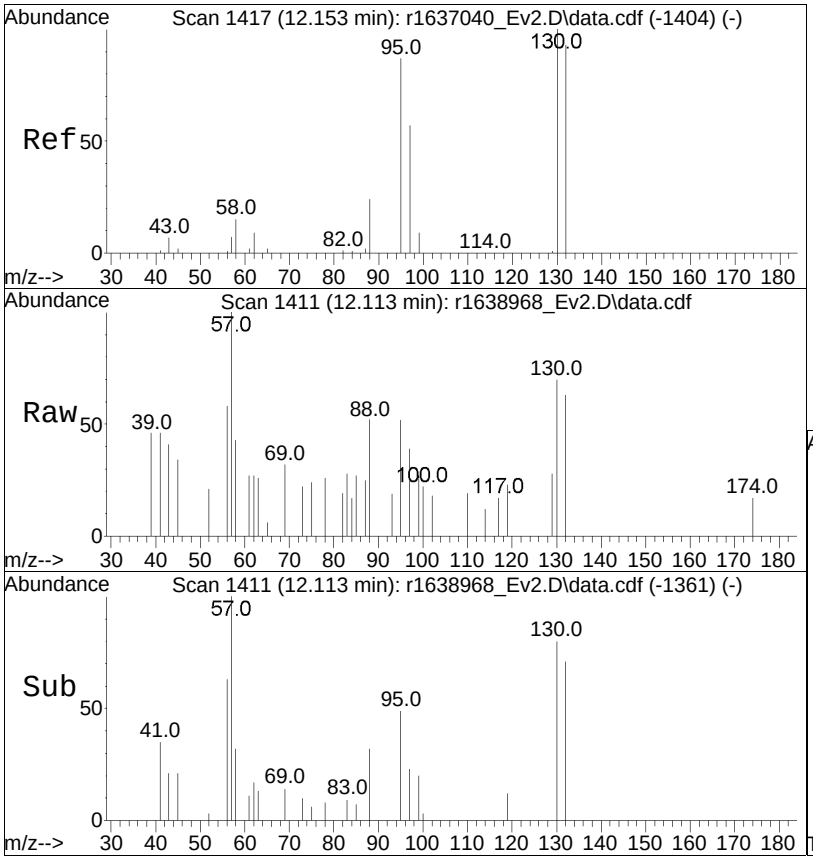


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 11.053 min Scan# 1252
Delta R.T. -0.007 min
Lab File: r1638968_Ev2.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:117 Resp: 560

Ion	Ratio	Lower	Upper
117	100		
119	96.3	78.1	117.1
82	29.3	15.8	23.8#

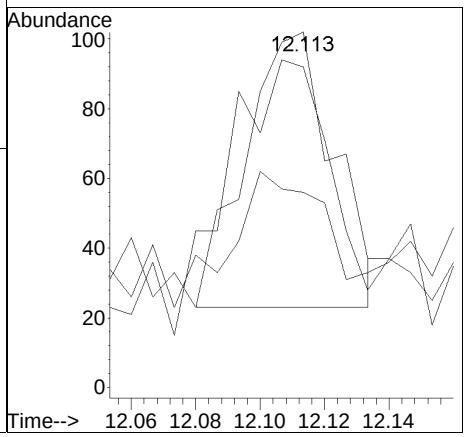


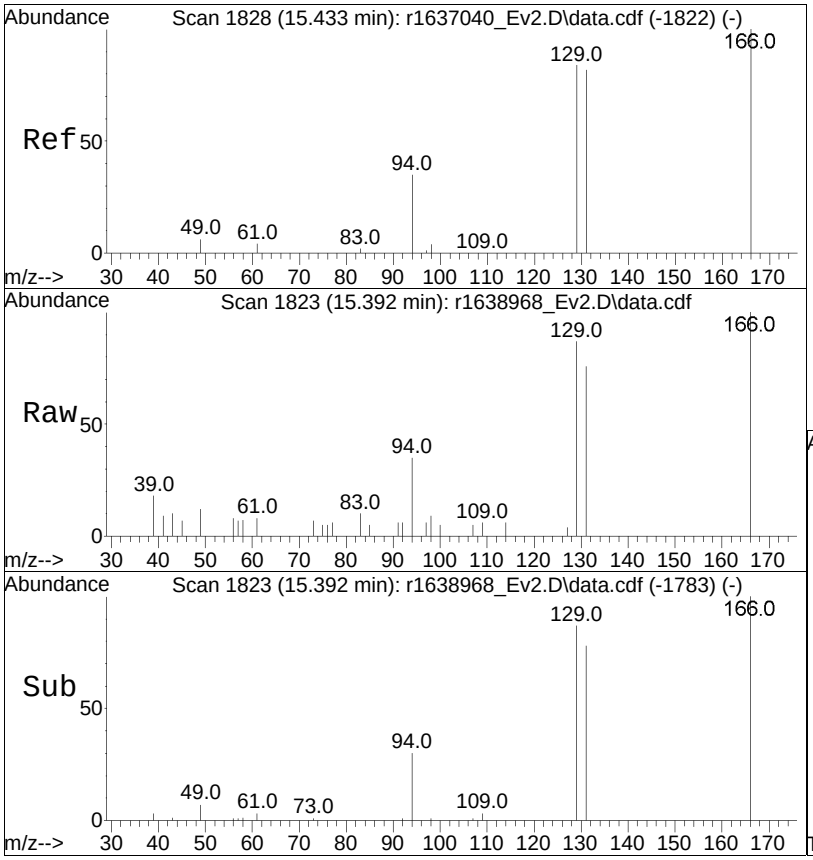


#44
trichloroethene
Concen: 0.02 ppbV
RT: 12.113 min Scan# 1411
Delta R.T. 0.007 min
Lab File: r1638968_Ev2.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:130 Resp: 150

Ion	Ratio	Lower	Upper
130	100		
132	90.2	74.7	112.1
97	54.9	46.2	69.4

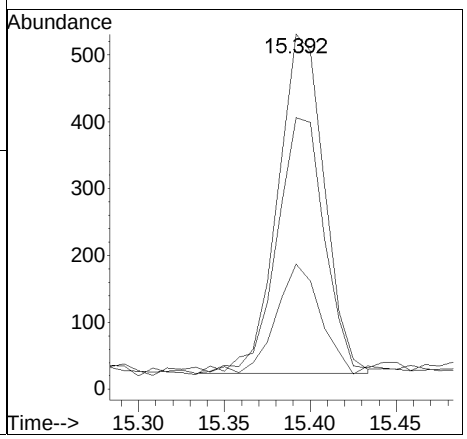




#57
tetrachloroethene
Concen: 0.09 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638968_Ev2.D
Acq: 22 Aug 2023 11:09 PM

Tgt Ion:166 Resp: 954

Ion	Ratio	Lower	Upper
166	100		
131	76.5	61.9	92.9
94	35.2	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638968_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:1: 9	Instrument	:
Sample	: L2347540-08,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638969_Ev2.D
Acq On : 22 Aug 2023 11:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-09,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:57 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

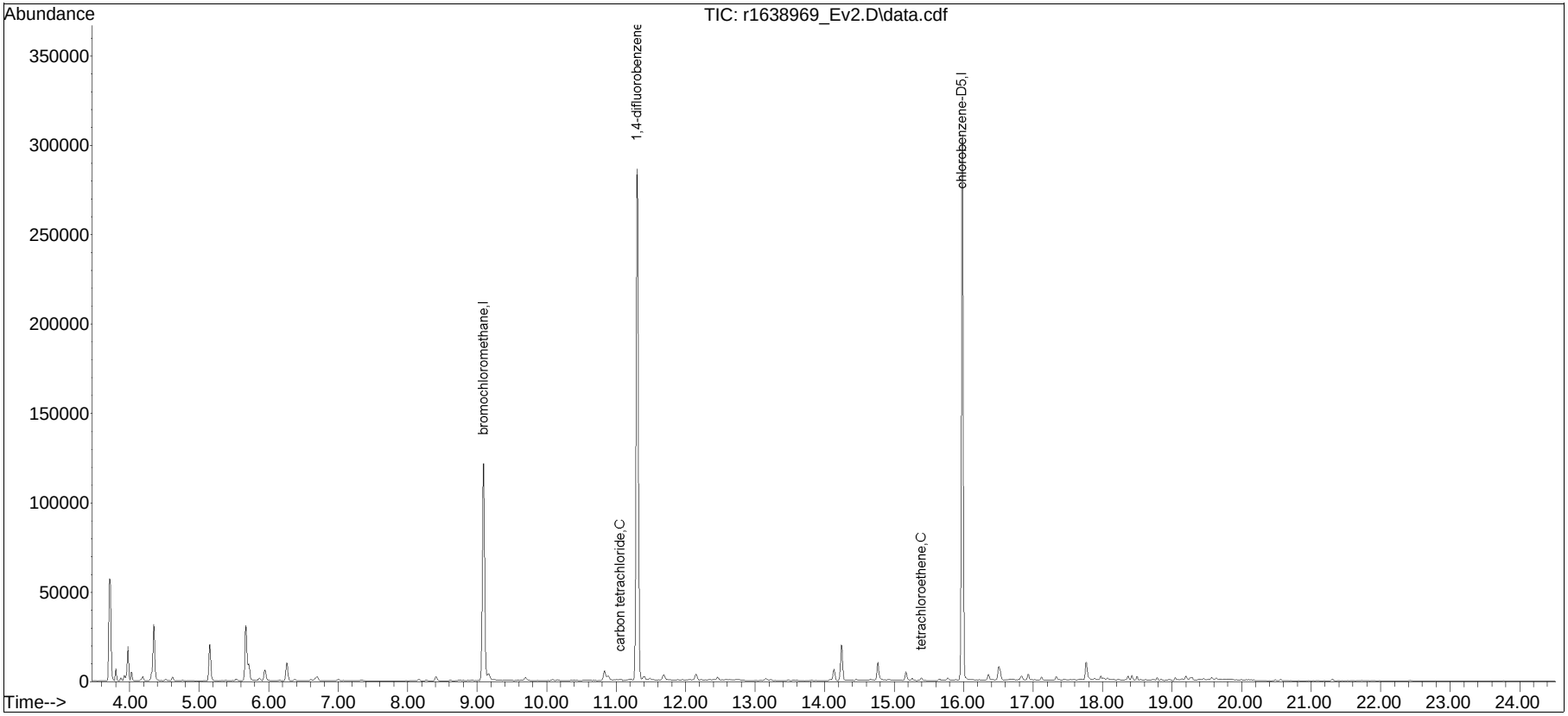
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	127519	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 104.56%			
33) 1,4-difluorobenzene	11.300	114	395834	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 94.81%			
51) chlorobenzene-D5	15.975	54	46730	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 97.66%			
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	8.900		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.060	117	433	0.060	ppbV #	93
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.392	166	929	0.083	ppbV	99

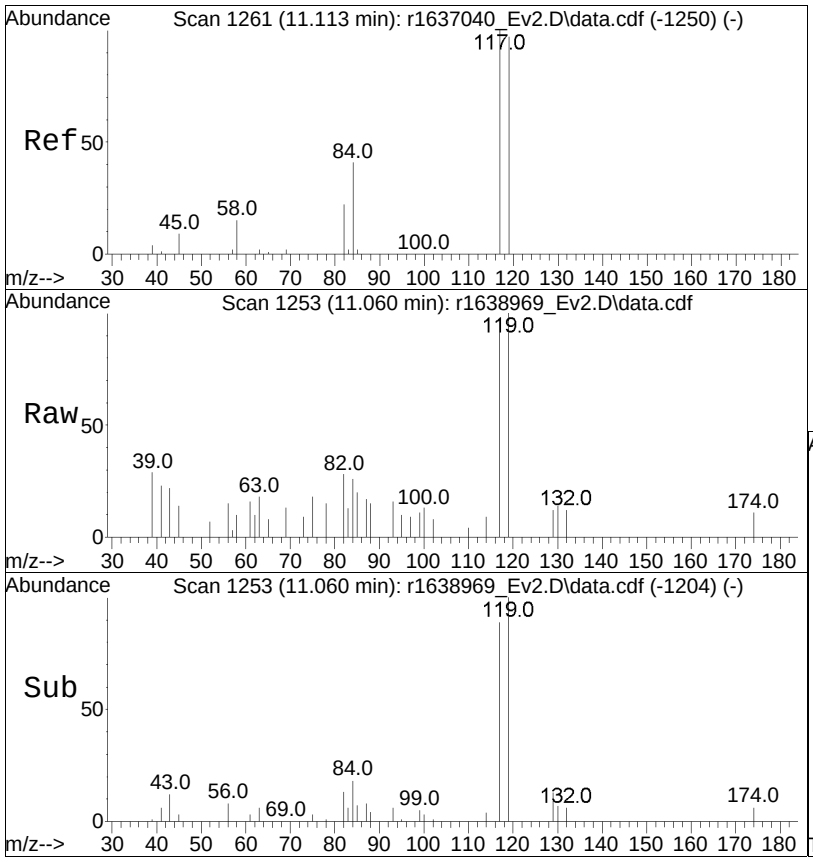
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638969_Ev2.D
Acq On : 22 Aug 2023 11:49 PM
Operator : AIRLAB16:APR
Sample : L2347540-09,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:57 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

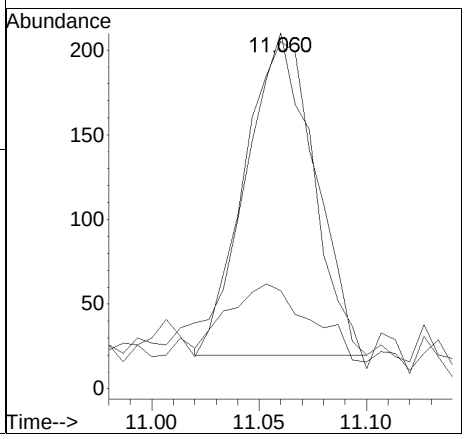


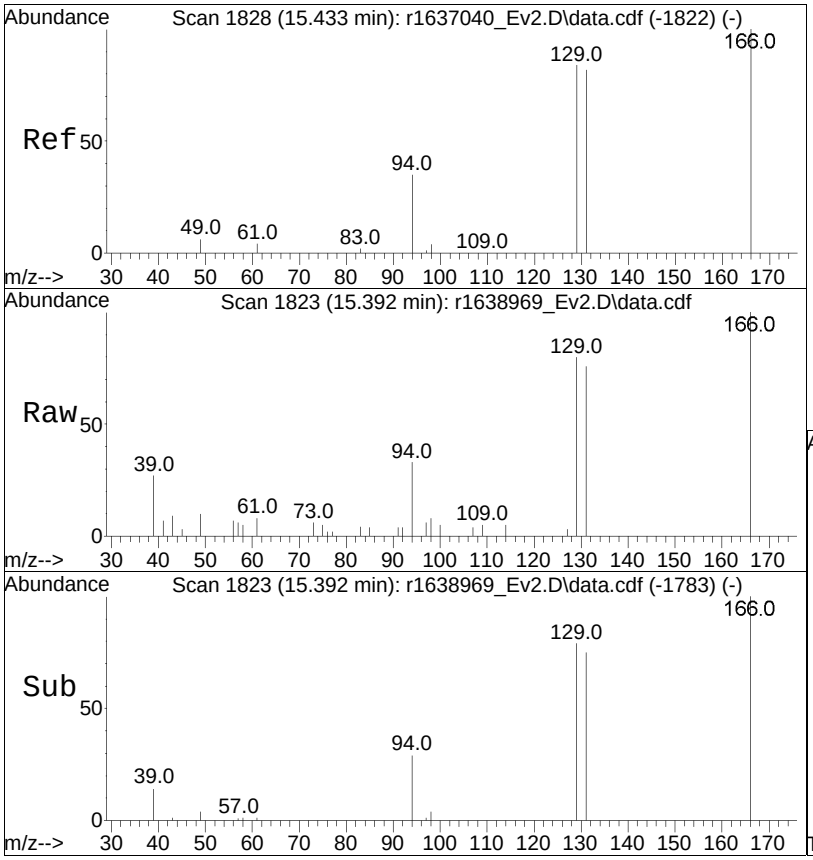


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638969_Ev2.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:117 Resp: 433

Ion	Ratio	Lower	Upper
117	100		
119	102.4	78.1	117.1
82	28.3	15.8	23.8#

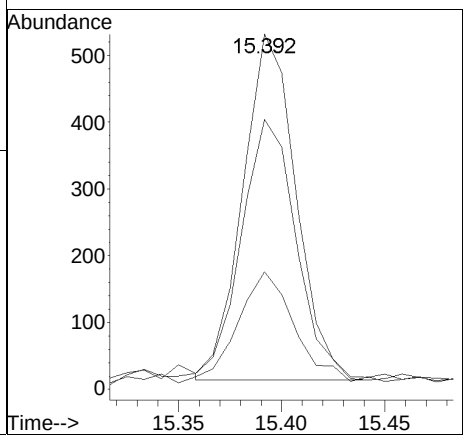




#57
tetrachloroethene
Concen: 0.08 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638969_Ev2.D
Acq: 22 Aug 2023 11:49 PM

Tgt Ion:166 Resp: 929

Ion	Ratio	Lower	Upper
166	100		
131	75.9	61.9	92.9
94	33.1	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638969_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:1: 9	Instrument	:
Sample	: L2347540-09,3,250,250	Quant Date	: 8/23/2023 6:47 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638970_Ev2.D
Acq On : 23 Aug 2023 12:29 AM
Operator : AIRLAB16:APR
Sample : L2347540-11,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:48:04 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

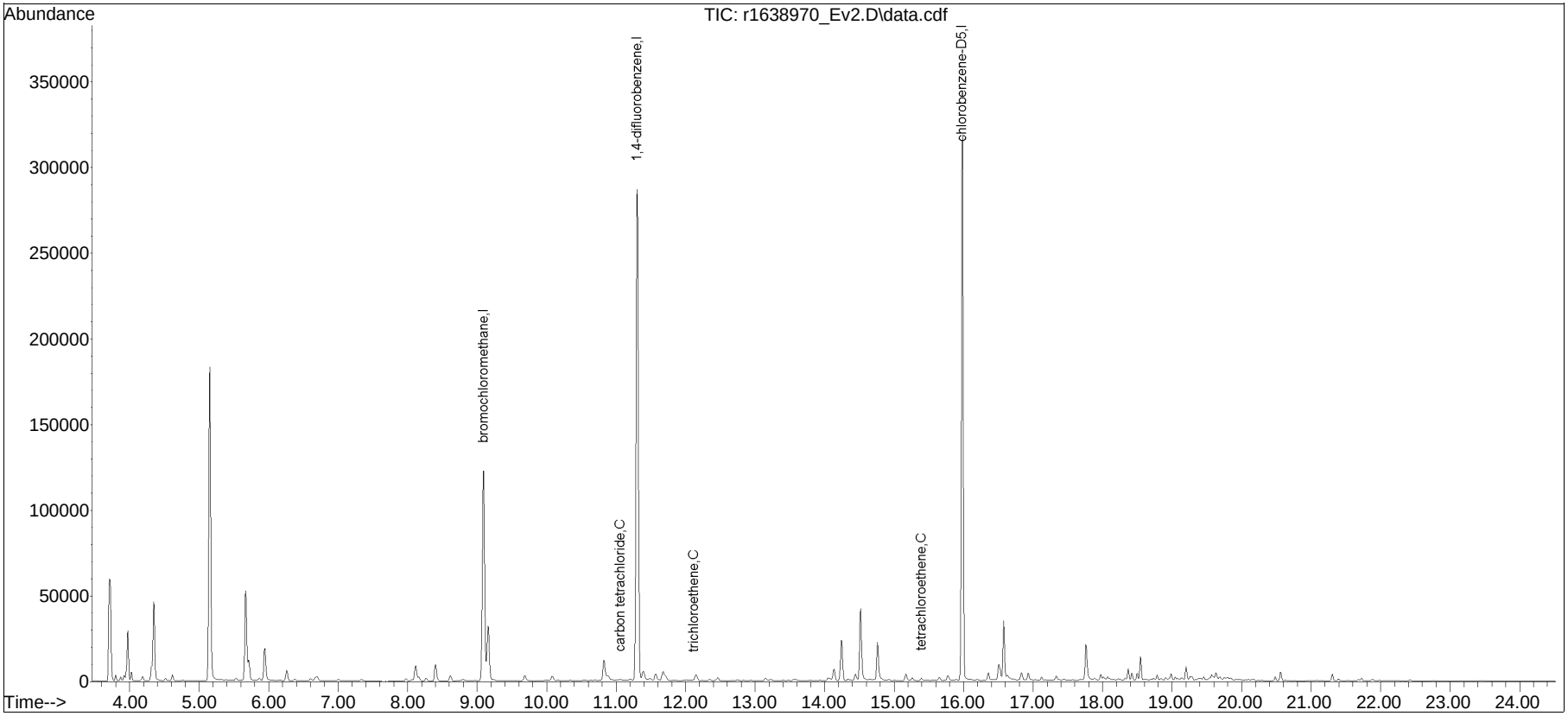
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	129356	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 106.06%			
33) 1,4-difluorobenzene	11.300	114	400593	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 95.95%			
51) chlorobenzene-D5	15.975	54	48196	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 100.72%			
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	11.060	117	411	0.056	ppbV #	90
44) trichloroethene	12.113	130	124	0.013	ppbV #	76
57) tetrachloroethene	15.392	166	882	0.076	ppbV	99

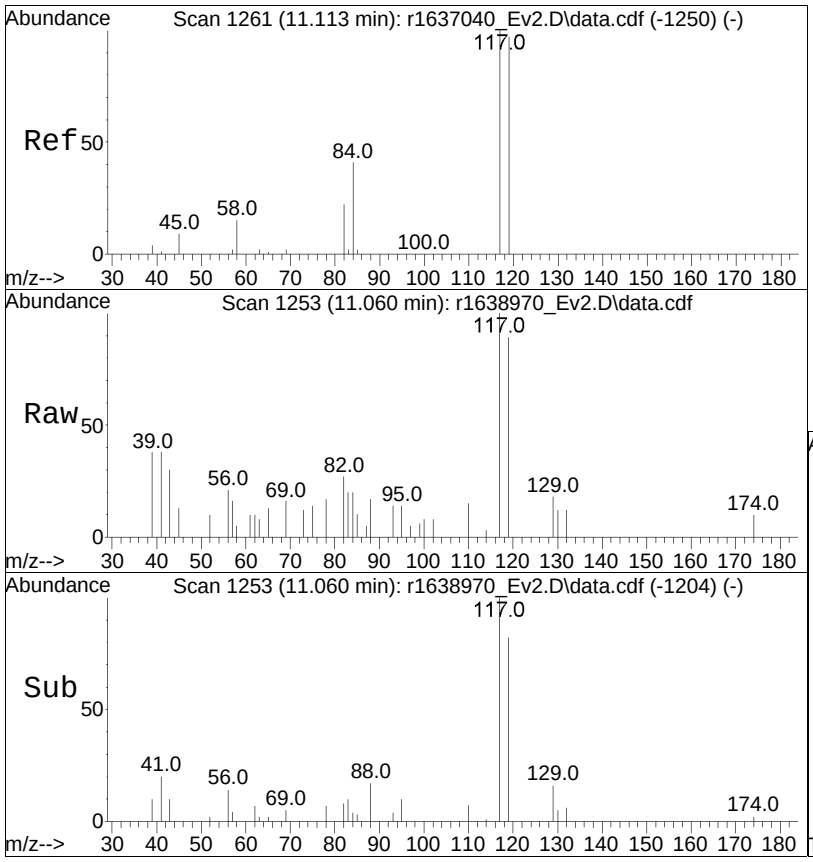
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638970_Ev2.D
Acq On : 23 Aug 2023 12:29 AM
Operator : AIRLAB16:APR
Sample : L2347540-11,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:48:04 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

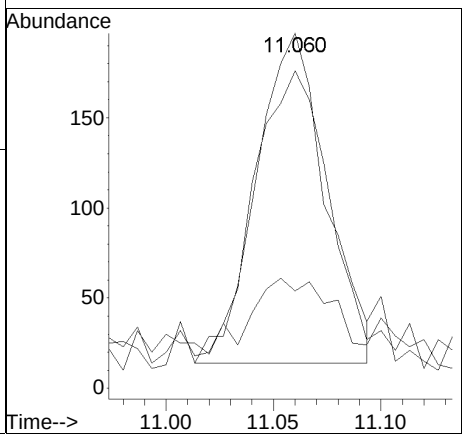


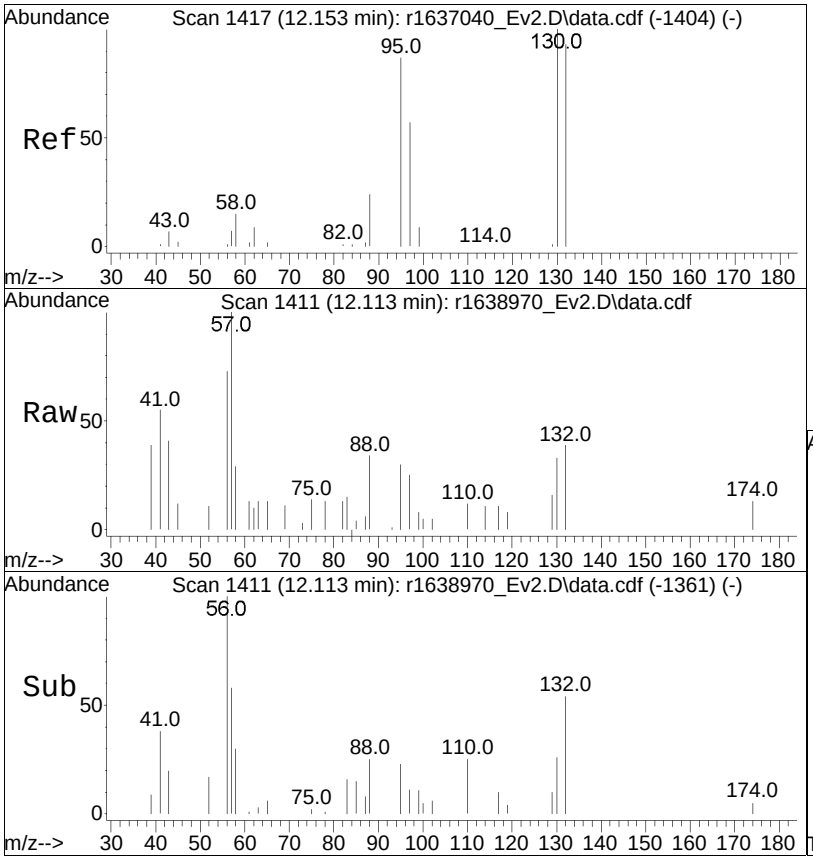


#38
carbon tetrachloride
Concen: 0.06 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638970_Ev2.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:117 Resp: 411

Ion	Ratio	Lower	Upper
117	100		
119	89.3	78.1	117.1
82	27.4	15.8	23.8#

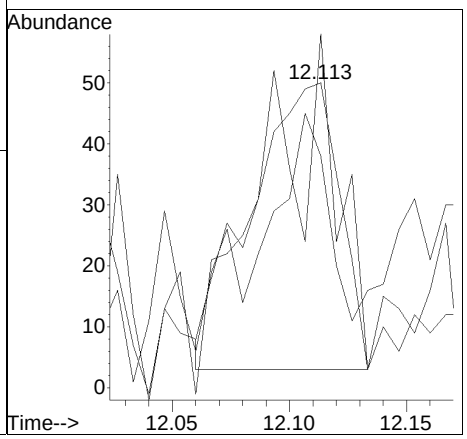


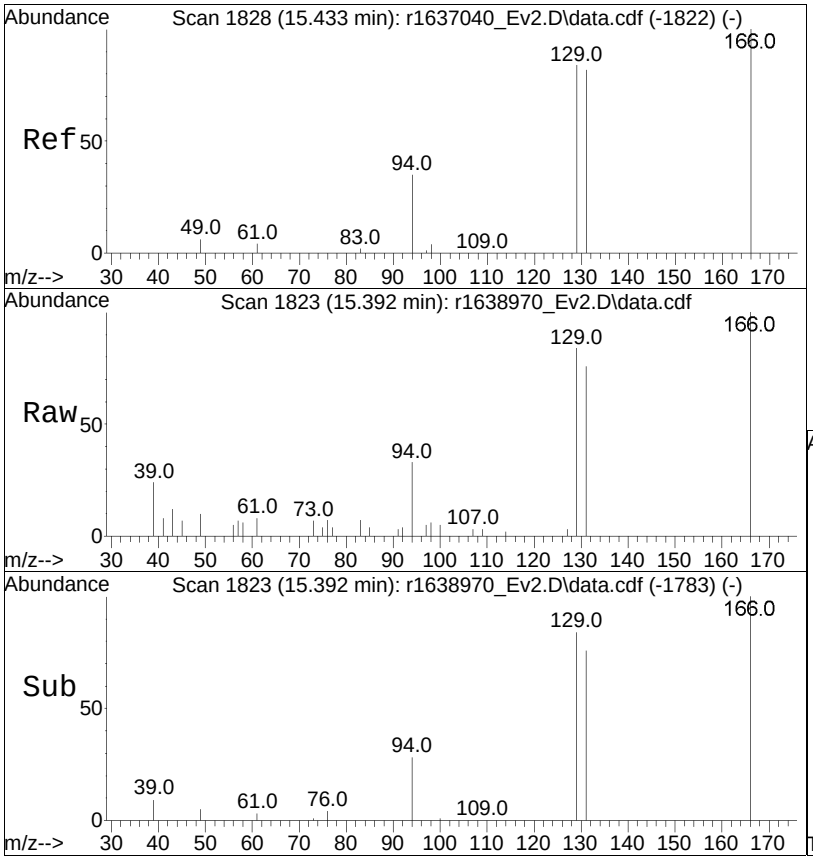


#44
trichloroethene
Concen: 0.01 ppbV
RT: 12.113 min Scan# 1411
Delta R.T. 0.007 min
Lab File: r1638970_Ev2.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:130 Resp: 124

Ion	Ratio	Lower	Upper
130	100		
132	116.0	74.7	112.1#
97	76.0	46.2	69.4#

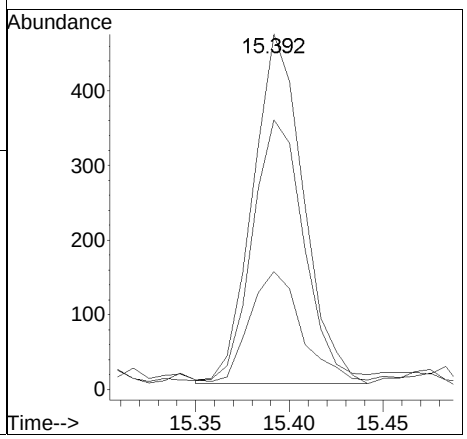




#57
tetrachloroethene
Concen: 0.08 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638970_Ev2.D
Acq: 23 Aug 2023 12:29 AM

Tgt Ion:166 Resp: 882

Ion	Ratio	Lower	Upper
166	100		
131	75.8	61.9	92.9
94	33.2	26.6	39.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638970_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/23/2020 0:2: 9	Instrument	:
Sample	: L2347540-11,3,250,250	Quant Date	: 8/23/2023 6:48 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**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20200**
Calibration dates	**: 07/25/23 07:17 07/25/23 13:09**		

Calibration Files

0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D

1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene				0.659	0.608	0.572	0.538	0.495	0.490	0.416	0.5397	15.12
3)		dichlorodifluoromethane				0.986	0.921	0.873	0.871	0.743	0.677	0.631	0.8145	16.26
4)	C	chloromethane				0.519	0.487	0.465	0.458	0.424	0.406	0.389	0.4497	10.23
5)		Freon-114		0.710	0.676	1.122	1.046	1.005	1.001	0.911	0.853	0.786	0.9010	17.26
6)	C	vinyl chloride	0.328	0.472	0.293	0.534	0.485	0.470	0.469	0.431	0.400	0.371	0.4253	17.87
7)	C	1,3-butadiene	0.445	0.257	0.206	0.397	0.360	0.341	0.354	0.334	0.315	0.296	0.3305	20.53
8)	C	bromomethane	0.299	0.384	0.300	0.506	0.461	0.437	0.441	0.411	0.385	0.346	0.3970	17.08
9)	C	chloroethane			0.138	0.254	0.232	0.227	0.222	0.209	0.200	0.179	0.2075	17.24
10)		ethanol					0.284	0.279	0.216	0.274	0.239	0.240	0.2555	10.77
11)	C	vinyl bromide				0.490	0.473	0.443	0.462	0.439	0.421	0.368	0.4423	9.05
12)	C	acrolein		0.178	0.145	0.200	0.195	0.178	0.182	0.177	0.177	0.164	0.1773	9.12
13)		acetone				0.682	0.616	0.594	0.588	0.559	0.534	0.451	0.5749	12.50
14)		trichlorofluoromethane		0.777	0.967	0.720	0.669	0.629	0.629	0.602	0.590	0.516	0.6777	19.48
15)		isopropyl alcohol				0.966	0.830	0.797	0.817	0.790	0.777	0.674	0.8072	10.69
16)	C	acrylonitrile				0.436	0.403	0.380	0.411	0.404	0.409	0.379	0.4031	4.91
17)	C	1,1-dichloroethene	0.724	0.529	0.412	0.870	0.776	0.750	0.753	0.724	0.715	0.594	0.6848	19.64
18)		tertiary butyl alcohol					0.790	0.790	0.844	0.832	0.837	0.707	0.8001	6.39
19)	C	methylene chloride					0.636	0.592	0.574	0.559	0.574	0.541	0.5794	5.61
20)	C	3-chloropropene				0.905	0.835	0.808	0.862	0.851	0.854	0.755	0.8386	5.59
21)	C	carbon disulfide				1.538	1.450	1.414	1.551	1.567	1.582	1.441	1.5060	4.57
22)		Freon 113		1.021	0.905	1.175	1.087	1.044	1.043	1.011	1.025	0.898	1.0231	8.31
23)		trans-1,2-dichloroethene	0.639	0.689	0.551	0.888	0.821	0.785	0.821	0.795	0.771	0.641	0.7400	14.19
24)	C	1,1-dichloroethane	0.858	0.730	0.581	1.149	1.036	1.009	1.017	0.985	0.989	0.832	0.9184	18.33
25)	C	MTBE	0.910	0.764	0.666	1.231	1.185	1.138	1.200	1.178	1.182	1.072	1.0526	19.12
26)	C	vinyl acetate					1.232	1.181	1.294	1.297	1.259	1.158	1.2368	4.69
27)	C	2-butanone				1.409	1.308	1.271	1.329	1.308	1.319	1.196	1.3059	4.90
28)		cis-1,2-dichloroethene	0.510	0.637	0.403	0.845	0.764	0.744	0.748	0.723	0.721	0.598	0.6694	19.92
29)		Ethyl Acetate					0.214	0.199	0.212	0.207	0.203	0.170	0.2008	8.13
30)	C	chloroform	0.736	0.744	0.688	1.041	0.931	0.903	0.899	0.866	0.851	0.705	0.8364	13.69
31)		Tetrahydrofuran					0.787	0.785	0.833	0.829	0.836	0.761	0.8051	3.93
32)	C	1,2-dichloroethane	0.526	0.412	0.328	0.687	0.583	0.531	0.517	0.490	0.473	0.371	0.4917	21.19
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.284	0.267	0.255	0.266	0.257	0.250	0.213	0.2560	8.58
35)	s	1,2-dichloroethane-D4				0.237	0.239	0.229	0.233	0.230	0.218	0.193	0.2257	7.01
36)	C	1,1,1-trichloroethane	0.169	0.187	0.131	0.234	0.218	0.207	0.212	0.209	0.211	0.180	0.1958	15.24

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20200**
Calibration dates	**: 07/25/23 07:17 07/25/23 13:09**		

Calibration Files

0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D

1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37)	C	benzene			0.580	0.593	0.542	0.516	0.521	0.510	0.523	0.497	0.5351	6.39
38)	C	carbon tetrachloride	0.152	0.181	0.183	0.203	0.188	0.185	0.187	0.187	0.189	0.164	0.1818	7.82
39)		cyclohexane				0.282	0.278	0.264	0.278	0.269	0.266	0.237	0.2678	5.69
40)		Dibromomethane		0.202	0.120	0.201	0.186	0.175	0.179	0.175	0.178	0.155	0.1746	14.36
41)	C	1,2-dichloropropane	0.214	0.163	0.115	0.238	0.213	0.206	0.208	0.204	0.209	0.186	0.1957	17.61
42)		bromodichloromethane	0.143	0.168	0.125	0.248	0.230	0.232	0.255	0.254	0.253	0.220	0.2126	23.10
43)	C	1,4-dioxane			0.064	0.126	0.124	0.120	0.128	0.127	0.126	0.113	0.1160	18.66
44)	C	trichloroethene	0.278	0.211	0.147	0.278	0.259	0.247	0.249	0.245	0.254	0.228	0.2396	16.02
45)	C	2,2,4-trimethylpentane				0.915	0.862	0.832	0.862	0.836	0.814	0.697	0.8311	8.14
46)		heptane				0.423	0.379	0.366	0.386	0.381	0.390	0.361	0.3837	5.23
47)	C	cis-1,3-dichloropropene	0.167	0.156	0.140	0.253	0.240	0.236	0.253	0.253	0.270	0.261	0.2228	21.83
48)	C	4-methyl-2-pentanone					0.414	0.414	0.453	0.450	0.466	0.434	0.4388	4.87
49)		trans-1,3-dichloropropene	0.189	0.108	0.098	0.194	0.181	0.183	0.198	0.201	0.215	0.204	0.1771	22.78
50)	C	1,1,2-trichloroethane	0.198	0.169	0.131	0.252	0.230	0.221	0.222	0.220	0.229	0.208	0.2080	16.80
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			1.216	0.653	0.594	0.577	0.586	0.583	0.615	0.575	0.6751	32.58#
53)	s	toluene-D8				7.913	7.986	7.785	8.001	8.139	8.455	9.122	8.2002	5.58
54)		2-hexanone				2.963	3.112	3.141	3.678	3.767	4.017	3.893	3.5100	12.15
55)		dibromochloromethane	1.928	1.406	1.163	2.189	2.122	2.138	2.467	2.556	2.700	2.562	2.1230	23.87
56)	C	1,2-dibromoethane	2.254	1.819	1.471	2.935	2.757	2.685	2.793	2.803	3.008	2.982	2.5507	20.73
57)	C	tetrachloroethene	2.652	2.419	1.856	2.697	2.441	2.377	2.349	2.333	2.455	2.344	2.3923	9.48
58)		1,1,1,2-tetrachloroethane	1.826	1.394	1.122	1.989	1.837	1.815	1.959	1.989	2.098	1.956	1.7984	16.95
59)	C	chlorobenzene		3.347	2.504	5.141	4.760	4.574	4.662	4.596	4.877	4.718	4.3531	19.61
60)	C	ethylbenzene	6.027	5.567	4.925	7.932	7.423	7.190	7.467	7.422	7.833	7.197	6.8983	14.83
61)	C	m+p-xylene	4.747	4.570	4.458	6.228	5.947	5.800	5.947	5.878	6.117	5.507	5.5200	12.16
62)	C	bromoform	1.407	0.989	0.895	1.568	1.519	1.554	1.894	2.027	2.210	2.182	1.6246	28.21
63)	C	styrene	3.070	2.986	2.476	4.790	4.554	4.529	4.781	4.805	5.262	5.326	4.2578	23.97
64)	C	1,1,2,2-tetrachloroethane	3.467	3.209	2.362	4.735	4.493	4.426	4.428	4.324	4.431	4.139	4.0014	18.72
65)	C	o-xylene	5.140	4.749	4.092	6.458	5.977	5.833	6.037	5.936	6.090	5.411	5.5722	12.99
66)		1,2,3-Trichloropropane	2.468	1.912	1.647	3.235	3.034	2.978	3.031	2.995	3.192	3.244	2.7737	20.60
67)	s	bromofluorobenzene				4.778	4.920	5.028	5.034	5.082	5.304	5.887	5.1475	7.05
68)	C	isopropylbenzene				8.189	7.507	7.381	7.523	7.442	7.977	7.814	7.6903	3.99
69)		Bromobenzene	2.743	2.788	1.985	4.397	4.047	3.947	4.015	3.948	4.149	4.140	3.6159	22.28
70)		4-ethyl toluene	4.416	5.097	3.845	8.193	7.774	7.623	8.068	8.077	8.435	8.371	6.9898	25.64
71)		1,3,5-trimethylbenzene	4.569	4.149	3.462	7.197	6.941	6.721	6.825	6.790	7.243	7.044	6.0943	23.59
72)		tert-butylbenzene				7.681	7.238	7.178	7.404	7.240	7.377	6.752	7.2673	3.88

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2347540**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB16**	**Ical Ref**	**: ICAL20200**
Calibration dates	**: 07/25/23 07:17 07/25/23 13:09**		

Calibration Files

0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D

1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)		1,2,4-trimethylbenzene	5.242	4.347	3.967	7.169	6.861	6.745	6.957	6.867	7.198	6.692	6.2045	19.57
74)	C	Benzyl Chloride			1.070	2.289	2.336	2.491	3.420	4.010	4.468	4.637	3.0900	40.38#
75)		1,3-dichlorobenzene	4.120	3.156	2.630	5.583	5.259	5.198	5.327	5.300	5.696	5.737	4.8007	23.10
76)	C	1,4-dichlorobenzene	3.947	3.229	2.713	5.467	5.239	5.097	5.245	5.228	5.624	5.583	4.7371	22.15
77)		sec-butylbenzene				1.059	0.995	0.973	0.989	0.976	1.034	1.005	1.0045	3.15
78)		p-isopropyltoluene				9.210	8.847	8.713	8.929	8.773	8.861	8.152	8.7836	3.65
79)		1,2-dichlorobenzene	4.049	3.124	2.526	5.315	5.065	4.986	5.099	5.077	5.391	5.528	4.6161	22.40
80)		n-butylbenzene				8.033	7.652	7.609	7.924	7.973	8.287	7.750	7.8898	3.02
81)		1,2-dibromo-3-chloropr...	1.275	0.652	0.594	1.288	1.281	1.325	1.514	1.542	1.606	1.647	1.2724	29.07
82)	C	1,2,4-trichlorobenzene		1.783	1.369	2.921	2.899	2.995	3.249	3.376	3.583	3.663	2.8708	27.51
83)		naphthalene		0.523	0.441	0.910	0.902	0.921	0.989	1.004	1.026	1.023	0.8598	25.61
84)		1,2,3-trichlorobenzene		1.653	1.169	2.888	2.788	2.815	2.942	3.013	3.149	3.320	2.6375	27.49
85)	C	hexachlorobutadiene		1.527	1.264	2.653	2.528	2.434	2.434	2.367	2.406	2.329	2.2159	21.62

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Method File : TSIM16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 09:32:46 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D
1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	ISTD											
2)		propylene				0.659	0.608	0.572	0.538	0.495	0.490	0.416	0.5397	15.12
3)		dichlorodifluorome...				0.986	0.921	0.873	0.871	0.743	0.677	0.631	0.8145	16.26
4)	C	chloromethane				0.519	0.487	0.465	0.458	0.424	0.406	0.389	0.4497	10.23
5)		Freon-114		0.710	0.676	1.122	1.046	1.005	1.001	0.911	0.853	0.786	0.9010	17.26
6)	C	vinyl chloride	0.328	0.472	0.293	0.534	0.485	0.470	0.469	0.431	0.400	0.371	0.4253	17.87
7)	C	1,3-butadiene	0.445	0.257	0.206	0.397	0.360	0.341	0.354	0.334	0.315	0.296	0.3305	20.53
8)	C	bromomethane	0.299	0.384	0.300	0.506	0.461	0.437	0.441	0.411	0.385	0.346	0.3970	17.08
9)	C	chloroethane			0.138	0.254	0.232	0.227	0.222	0.209	0.200	0.179	0.2075	17.24
10)		ethanol					0.284	0.279	0.216	0.274	0.239	0.240	0.2555	10.77
11)	C	vinyl bromide				0.490	0.473	0.443	0.462	0.439	0.421	0.368	0.4423	9.05
12)	C	acrolein		0.178	0.145	0.200	0.195	0.178	0.182	0.177	0.177	0.164	0.1773	9.12
13)		acetone				0.682	0.616	0.594	0.588	0.559	0.534	0.451	0.5749	12.50
14)		trichlorofluoromet...		0.777	0.967	0.720	0.669	0.629	0.629	0.602	0.590	0.516	0.6777	19.48
15)		isopropyl alcohol				0.966	0.830	0.797	0.817	0.790	0.777	0.674	0.8072	10.69
16)	C	acrylonitrile				0.436	0.403	0.380	0.411	0.404	0.409	0.379	0.4031	4.91
17)	C	1,1-dichloroethene	0.724	0.529	0.412	0.870	0.776	0.750	0.753	0.724	0.715	0.594	0.6848	19.64
18)		tertiary butyl alc...					0.790	0.790	0.844	0.832	0.837	0.707	0.8001	6.39
19)	C	methylene chloride					0.636	0.592	0.574	0.559	0.574	0.541	0.5794	5.61
20)	C	3-chloropropene				0.905	0.835	0.808	0.862	0.851	0.854	0.755	0.8386	5.59
21)	C	carbon disulfide				1.538	1.450	1.414	1.551	1.567	1.582	1.441	1.5060	4.57
22)		Freon 113		1.021	0.905	1.175	1.087	1.044	1.043	1.011	1.025	0.898	1.0231	8.31
23)		trans-1,2-dichloro...	0.639	0.689	0.551	0.888	0.821	0.785	0.821	0.795	0.771	0.641	0.7400	14.19
24)	C	1,1-dichloroethane	0.858	0.730	0.581	1.149	1.036	1.009	1.017	0.985	0.989	0.832	0.9184	18.33
25)	C	MTBE	0.910	0.764	0.666	1.231	1.185	1.138	1.200	1.178	1.182	1.072	1.0526	19.12
26)	C	vinyl acetate					1.232	1.181	1.294	1.297	1.259	1.158	1.2368	4.69
27)	C	2-butanone				1.409	1.308	1.271	1.329	1.308	1.319	1.196	1.3059	4.90
28)		cis-1,2-dichloroet...	0.510	0.637	0.403	0.845	0.764	0.744	0.748	0.723	0.721	0.598	0.6694	19.92
29)		Ethyl Acetate					0.214	0.199	0.212	0.207	0.203	0.170	0.2008	8.13
30)	C	chloroform	0.736	0.744	0.688	1.041	0.931	0.903	0.899	0.866	0.851	0.705	0.8364	13.69
31)		Tetrahydrofuran					0.787	0.785	0.833	0.829	0.836	0.761	0.8051	3.93

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Method File : TSIM16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 09:32:46 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D
1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32)	C	1,2-dichloroethane	0.526	0.412	0.328	0.687	0.583	0.531	0.517	0.490	0.473	0.371	0.4917	21.19
33)	I	1,4-difluorobenzene	----------	ISTD	----------									
34)	C	hexane			0.284	0.267	0.255	0.266	0.257	0.250	0.213		0.2560	8.58
35)	s	1,2-dichloroethane-D4			0.237	0.239	0.229	0.233	0.230	0.218	0.193		0.2257	7.01
36)	C	1,1,1-trichloroethane	0.169	0.187	0.131	0.234	0.218	0.207	0.212	0.209	0.211	0.180	0.1958	15.24
37)	C	benzene			0.580	0.593	0.542	0.516	0.521	0.510	0.523	0.497	0.5351	6.39
38)	C	carbon tetrachloride	0.152	0.181	0.183	0.203	0.188	0.185	0.187	0.187	0.189	0.164	0.1818	7.82
39)		cyclohexane				0.282	0.278	0.264	0.278	0.269	0.266	0.237	0.2678	5.69
40)		Dibromomethane		0.202	0.120	0.201	0.186	0.175	0.179	0.175	0.178	0.155	0.1746	14.36
41)	C	1,2-dichloropropane	0.214	0.163	0.115	0.238	0.213	0.206	0.208	0.204	0.209	0.186	0.1957	17.61
42)		bromodichloromethane	0.143	0.168	0.125	0.248	0.230	0.232	0.255	0.254	0.253	0.220	0.2126	23.10
43)	C	1,4-dioxane			0.064	0.126	0.124	0.120	0.128	0.127	0.126	0.113	0.1160	18.66
44)	C	trichloroethene	0.278	0.211	0.147	0.278	0.259	0.247	0.249	0.245	0.254	0.228	0.2396	16.02
45)	C	2,2,4-trimethylpen...				0.915	0.862	0.832	0.862	0.836	0.814	0.697	0.8311	8.14
46)		heptane				0.423	0.379	0.366	0.386	0.381	0.390	0.361	0.3837	5.23
47)	C	cis-1,3-dichloropr...	0.167	0.156	0.140	0.253	0.240	0.236	0.253	0.253	0.270	0.261	0.2228	21.83
48)	C	4-methyl-2-pentanone					0.414	0.414	0.453	0.450	0.466	0.434	0.4388	4.87
49)		trans-1,3-dichloro...	0.189	0.108	0.098	0.194	0.181	0.183	0.198	0.201	0.215	0.204	0.1771	22.78
50)	C	1,1,2-trichloroethane	0.198	0.169	0.131	0.252	0.230	0.221	0.222	0.220	0.229	0.208	0.2080	16.80
51)	I	chlorobenzene-D5	----------	ISTD	----------									
52)	C	toluene			1.216	0.653	0.594	0.577	0.586	0.583	0.615	0.575	0.6751	32.58#
53)	s	toluene-D8				7.913	7.986	7.785	8.001	8.139	8.455	9.122	8.2002	5.58
54)		2-hexanone				2.963	3.112	3.141	3.678	3.767	4.017	3.893	3.5100	12.15
55)		dibromochloromethane	1.928	1.406	1.163	2.189	2.122	2.138	2.467	2.556	2.700	2.562	2.1230	23.87
56)	C	1,2-dibromoethane	2.254	1.819	1.471	2.935	2.757	2.685	2.793	2.803	3.008	2.982	2.5507	20.73
57)	C	tetrachloroethene	2.652	2.419	1.856	2.697	2.441	2.377	2.349	2.333	2.455	2.344	2.3923	9.48
58)		1,1,1,2-tetrachlor...	1.826	1.394	1.122	1.989	1.837	1.815	1.959	1.989	2.098	1.956	1.7984	16.95
59)	C	chlorobenzene		3.347	2.504	5.141	4.760	4.574	4.662	4.596	4.877	4.718	4.3531	19.61
60)	C	ethylbenzene	6.027	5.567	4.925	7.932	7.423	7.190	7.467	7.422	7.833	7.197	6.8983	14.83
61)	C	m+p-xylene	4.747	4.570	4.458	6.228	5.947	5.800	5.947	5.878	6.117	5.507	5.5200	12.16

Response Factor Report

Method Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Method File : TSIM16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 09:32:46 2023
Response Via : Initial Calibration

Calibration Files
0.02=r1638435_Ev2.D 0.05=r1638436_Ev2.D 0.1 =r1638437_Ev2.D 0.2 =r1638438_Ev2.D 0.5 =r1638439_Ev2.D
1.0 =r1638440_Ev2.D 5.0 =r1638441_Ev2.D 10.0=r1638442_Ev2.D 20.0=r1638443_Ev2.D 50.0=r1638444_Ev2.D

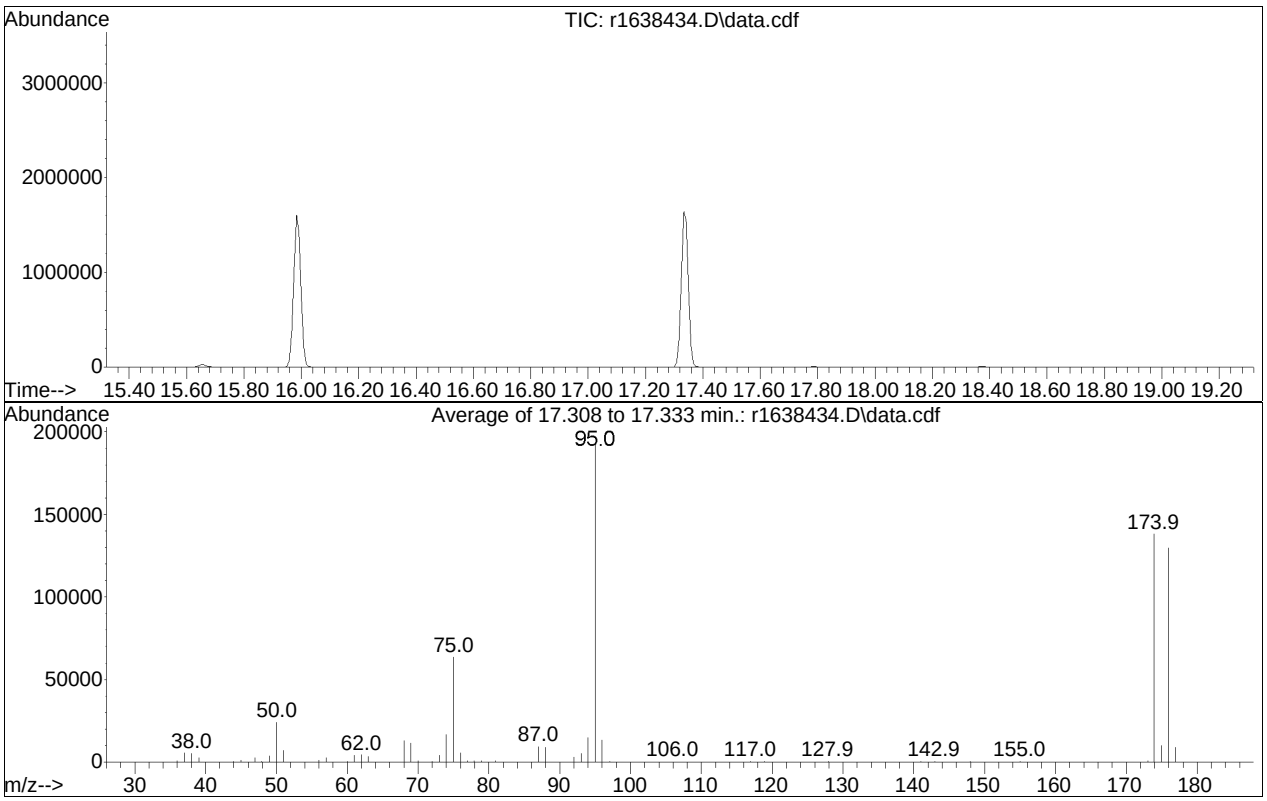
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C	bromoform	1.407	0.989	0.895	1.568	1.519	1.554	1.894	2.027	2.210	2.182	1.6246	28.21
63)	C	styrene	3.070	2.986	2.476	4.790	4.554	4.529	4.781	4.805	5.262	5.326	4.2578	23.97
64)	C	1,1,2,2-tetrachlor...	3.467	3.209	2.362	4.735	4.493	4.426	4.428	4.324	4.431	4.139	4.0014	18.72
65)	C	o-xylene	5.140	4.749	4.092	6.458	5.977	5.833	6.037	5.936	6.090	5.411	5.5722	12.99
66)		1,2,3-Trichloropro...	2.468	1.912	1.647	3.235	3.034	2.978	3.031	2.995	3.192	3.244	2.7737	20.60
67)	s	bromofluorobenzene				4.778	4.920	5.028	5.034	5.082	5.304	5.887	5.1475	7.05
68)	C	isopropylbenzene				8.189	7.507	7.381	7.523	7.442	7.977	7.814	7.6903	3.99
69)		Bromobenzene	2.743	2.788	1.985	4.397	4.047	3.947	4.015	3.948	4.149	4.140	3.6159	22.28
70)		4-ethyl toluene	4.416	5.097	3.845	8.193	7.774	7.623	8.068	8.077	8.435	8.371	6.9898	25.64
71)		1,3,5-trimethylben...	4.569	4.149	3.462	7.197	6.941	6.721	6.825	6.790	7.243	7.044	6.0943	23.59
72)		tert-butylbenzene				7.681	7.238	7.178	7.404	7.240	7.377	6.752	7.2673	3.88
73)		1,2,4-trimethylben...	5.242	4.347	3.967	7.169	6.861	6.745	6.957	6.867	7.198	6.692	6.2045	19.57
74)	C	Benzyl Chloride			1.070	2.289	2.336	2.491	3.420	4.010	4.468	4.637	3.0900	40.38#
75)		1,3-dichlorobenzene	4.120	3.156	2.630	5.583	5.259	5.198	5.327	5.300	5.696	5.737	4.8007	23.10
76)	C	1,4-dichlorobenzene	3.947	3.229	2.713	5.467	5.239	5.097	5.245	5.228	5.624	5.583	4.7371	22.15
77)		sec-butylbenzene				1.059	0.995	0.973	0.989	0.976	1.034	1.005	1.0045	3.15
78)		p-isopropyltoluene				9.210	8.847	8.713	8.929	8.773	8.861	8.152	8.7836	3.65
79)		1,2-dichlorobenzene	4.049	3.124	2.526	5.315	5.065	4.986	5.099	5.077	5.391	5.528	4.6161	22.40
80)		n-butylbenzene				8.033	7.652	7.609	7.924	7.973	8.287	7.750	7.8898	3.02
81)		1,2-dibromo-3-chlo...	1.275	0.652	0.594	1.288	1.281	1.325	1.514	1.542	1.606	1.647	1.2724	29.07
82)	C	1,2,4-trichloroben...		1.783	1.369	2.921	2.899	2.995	3.249	3.376	3.583	3.663	2.8708	27.51
83)		naphthalene		0.523	0.441	0.910	0.902	0.921	0.989	1.004	1.026	1.023	0.8598	25.61
84)		1,2,3-trichloroben...		1.653	1.169	2.888	2.788	2.815	2.942	3.013	3.149	3.320	2.6375	27.49
85)	C	hexachlorobutadiene		1.527	1.264	2.653	2.528	2.434	2.434	2.367	2.406	2.329	2.2159	21.62

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638434.D
Acq On : 25 Jul 2023 6:41 AM
Operator : AIRLAB16:APR
Sample : WG1807911-1
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 09:32:46 2023



Spectrum Information: Average of 17.308 to 17.333 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.5	24151	PASS
75	95	30	66	32.9	63731	PASS
95	95	100	100	100.0	193456	PASS
96	95	5	9	7.0	13595	PASS
173	174	0.00	2	0.5	760	PASS
174	95	50	120	71.5	138287	PASS
175	174	4	9	7.3	10158	PASS
176	174	93	101	93.7	129576	PASS
177	176	5	9	6.9	8989	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638435_Ev2.D
Acq On : 25 Jul 2023 7:17 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.02
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:16 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	123595	10.000	ppbV	0.00
Standard Area = 124394			Recovery =	99.36%		
33) 1,4-difluorobenzene	11.300	114	431286	10.000	ppbV	0.00
Standard Area = 439642			Recovery =	98.10%		
51) chlorobenzene-D5	15.975	54	49027	10.000	ppbV	0.00
Standard Area = 49994			Recovery =	98.07%		
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery =	0.00%#		
53) toluene-D8	14.133	98	8822	0.225	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	2.25%#		
67) bromofluorobenzene	17.342	95	2522	0.102	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery =	1.02%#		
Target Compounds						Qvalue
2) propylene	3.952	41	320M6	0.048	ppbV	
3) dichlorodifluoromethane	4.024	85	366	0.034	ppbV	97
4) chloromethane	4.192	50	233	0.041	ppbV #	86
5) Freon-114	4.294	85	208	0.017	ppbV #	89
6) vinyl chloride	4.414	62	81	0.014	ppbV #	34
7) 1,3-butadiene	4.558	54	110	0.025	ppbV #	27
8) bromomethane	4.840	94	74	0.014	ppbV	98
9) chloroethane	0.000		0	N.D.		
10) ethanol	5.158	31	443	0.166	ppbV #	80
11) vinyl bromide	0.000		0	N.D.		
12) acrolein	0.000		0	N.D.		
13) acetone	5.683	43	1708	0.235	ppbV #	98
14) trichlorofluoromethane	5.863	101	209	0.027	ppbV	96
15) isopropyl alcohol	5.957	45	796	0.079	ppbV #	83
16) acrylonitrile	0.000		0	N.D.		
17) 1,1-dichloroethene	6.558	61	179M4	0.019	ppbV	
18) tertiary butyl alcohol	6.624	59	144	0.014	ppbV #	1
19) methylene chloride	6.696	49	3275	0.461	ppbV	98
20) 3-chloropropene	6.828	41	172	0.016	ppbV #	58
21) carbon disulfide	7.002	76	299	0.016	ppbV #	1
22) Freon 113	6.996	101	289	0.022	ppbV #	86
23) trans-1,2-dichloroethene	7.742	61	158	0.016	ppbV #	92
24) 1,1-dichloroethane	7.958	63	212	0.017	ppbV #	77

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638435_Ev2.D
Acq On : 25 Jul 2023 7:17 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.02
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:16 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	225	0.015	ppbV	#	54
26) vinyl acetate	8.150	43	332	0.021	ppbV	#	68
27) 2-butanone	8.425	43	333	0.020	ppbV	#	80
28) cis-1,2-dichloroethene	8.900	61	126	0.014	ppbV	#	87
29) Ethyl Acetate	0.000		0	N.D.			
30) chloroform	9.242	83	182	0.016	ppbV	#	73
31) Tetrahydrofuran	9.717	42	163	0.016	ppbV		91
32) 1,2-dichloroethane	10.067	62	130	0.020	ppbV	#	85
34) hexane	9.158	57	326	0.028	ppbV	#	28
36) 1,1,1-trichloroethane	10.358	97	146	0.016	ppbV	#	77
37) benzene	10.887	78	522	0.023	ppbV	#	75
38) carbon tetrachloride	11.053	117	131	0.016	ppbV	#	88
39) cyclohexane	11.193	56	163	0.014	ppbV		85
40) Dibromomethane	11.793	93	229M4	0.030	ppbV		
41) 1,2-dichloropropane	11.820	63	185	0.021	ppbV	#	76
42) bromodichloromethane	12.047	83	123	0.011	ppbV	#	82
43) 1,4-dioxane	12.113	88	165M1	0.030	ppbV		
44) trichloroethene	12.100	130	240M4	0.022	ppbV		
45) 2,2,4-trimethylpentane	12.153	57	656	0.018	ppbV	#	89
46) heptane	12.460	43	344	0.021	ppbV	#	80
47) cis-1,3-dichloropropene	13.108	75	144	0.013	ppbV	#	72
48) 4-methyl-2-pentanone	13.175	43	226	0.012	ppbV	#	85
49) trans-1,3-dichloropropene	13.733	75	163	0.019	ppbV	#	14
50) 1,1,2-trichloroethane	13.933	97	171	0.018	ppbV	#	88
52) toluene	14.242	91	706	0.025	ppbV		96
54) 2-hexanone	0.000		0	N.D.			
55) dibromochloromethane	14.692	129	189	0.016	ppbV	#	90
56) 1,2-dibromoethane	14.942	107	221	0.016	ppbV		99
57) tetrachloroethene	15.392	166	260	0.023	ppbV	#	91
58) 1,1,1,2-tetrachloroethane	16.008	131	179	0.019	ppbV	#	86
59) chlorobenzene	16.017	112	322	0.014	ppbV	#	89
60) ethylbenzene	16.358	91	591	0.016	ppbV		89
61) m+p-xylene	16.517	91	931	0.032	ppbV		97
62) bromoform	16.592	173	138	0.015	ppbV	#	90
63) styrene	16.850	104	301	0.013	ppbV	#	81
64) 1,1,2,2-tetrachloroethane	16.933	83	340	0.016	ppbV		95
65) o-xylene	16.933	91	504	0.017	ppbV		89
66) 1,2,3-Trichloropropane	17.050	75	242	0.016	ppbV	#	79
68) isopropylbenzene	17.450	105	504	0.014	ppbV		98
69) Bromobenzene	17.533	77	269	0.014	ppbV		96

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638435_Ev2.D
Acq On : 25 Jul 2023 7:17 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.02
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:16 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

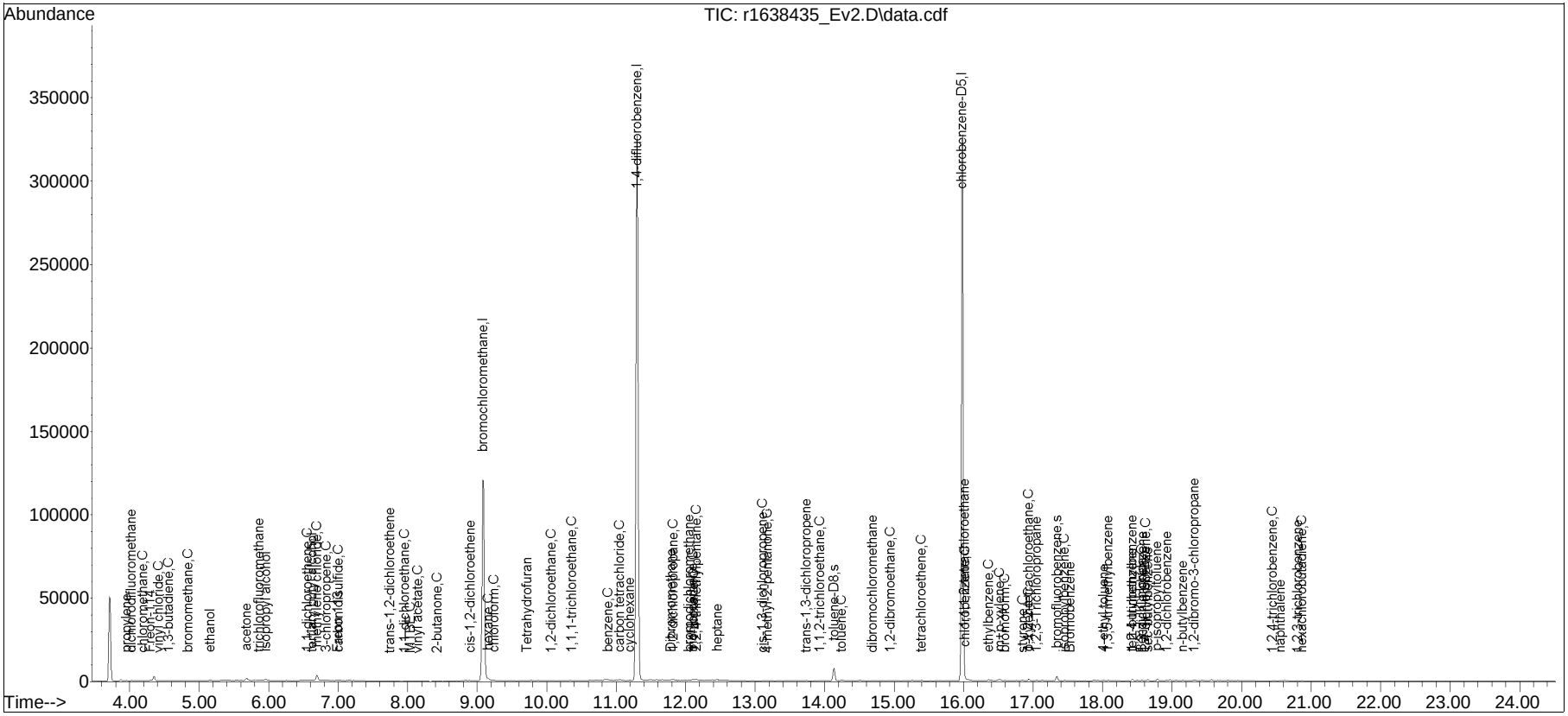
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.017	105	433	0.011	ppbV	#	90
71) 1,3,5-trimethylbenzene	18.075	105	448	0.013	ppbV	#	95
72) tert-butylbenzene	18.425	119	553	0.015	ppbV		100
73) 1,2,4-trimethylbenzene	18.425	105	514	0.015	ppbV	#	85
74) Benzyl Chloride	18.558	91	177	0.011	ppbV	#	72
75) 1,3-dichlorobenzene	18.567	146	404	0.015	ppbV	#	86
76) 1,4-dichlorobenzene	18.625	146	387M4	0.015	ppbV		
77) sec-butylbenzene	18.650	105	676	0.014	ppbV		99
78) p-isopropyltoluene	18.783	119	588	0.013	ppbV		91
79) 1,2-dichlorobenzene	18.925	146	397	0.016	ppbV	#	92
80) n-butylbenzene	19.150	91	468	0.012	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.317	75	125	0.017	ppbV	#	67
82) 1,2,4-trichlorobenzene	20.442	180	170	0.011	ppbV	#	85
83) naphthalene	20.558	128	716	0.015	ppbV	#	81
84) 1,2,3-trichlorobenzene	20.808	180	175	0.012	ppbV	#	65
85) hexachlorobutadiene	20.867	225	192	0.016	ppbV	#	77

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

Sub List : Default-ICV-AP2 - All compounds listed5SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638435_Ev2.D
Acq On : 25 Jul 2023 7:17 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.02
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

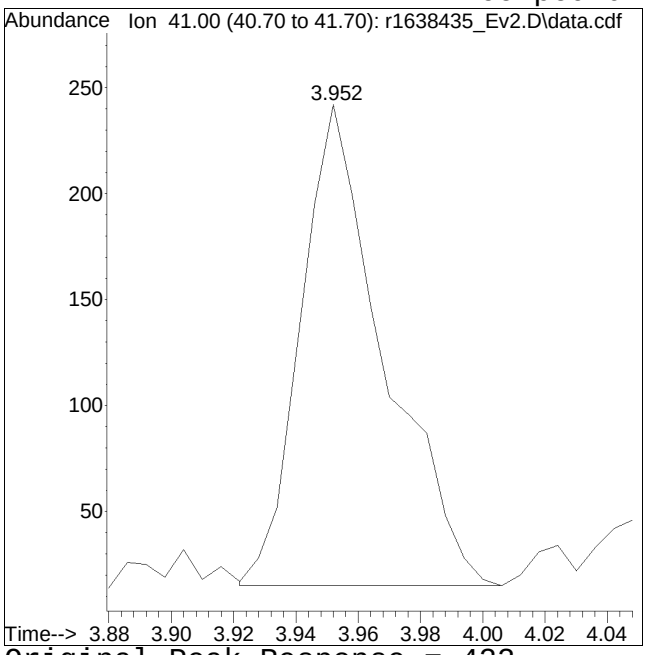
Quant Time: Jul 25 22:00:16 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



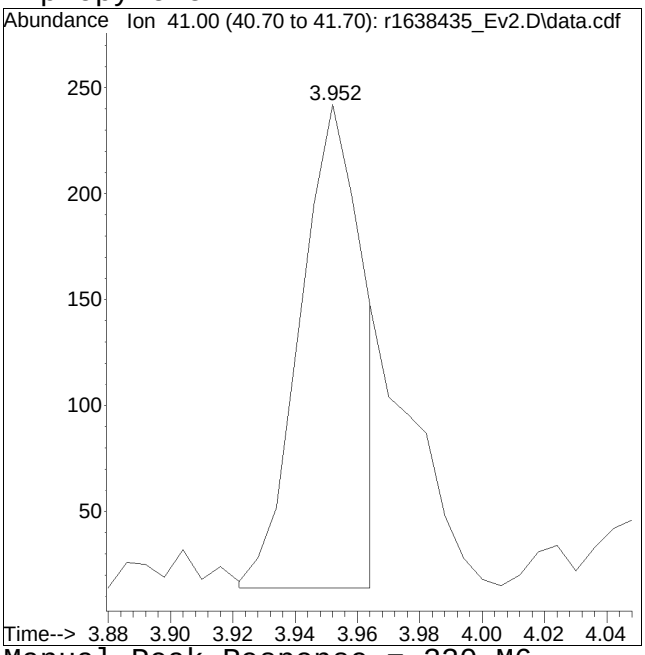
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 422



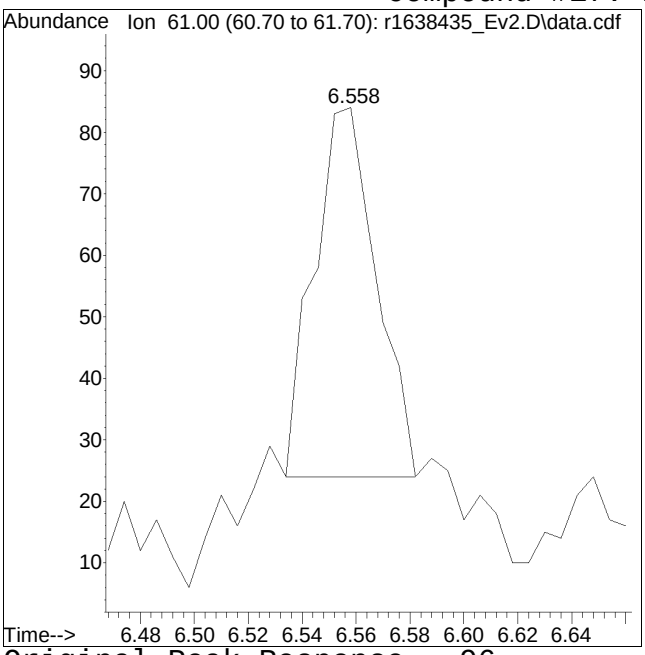
Manual Peak Response = 320 M6

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

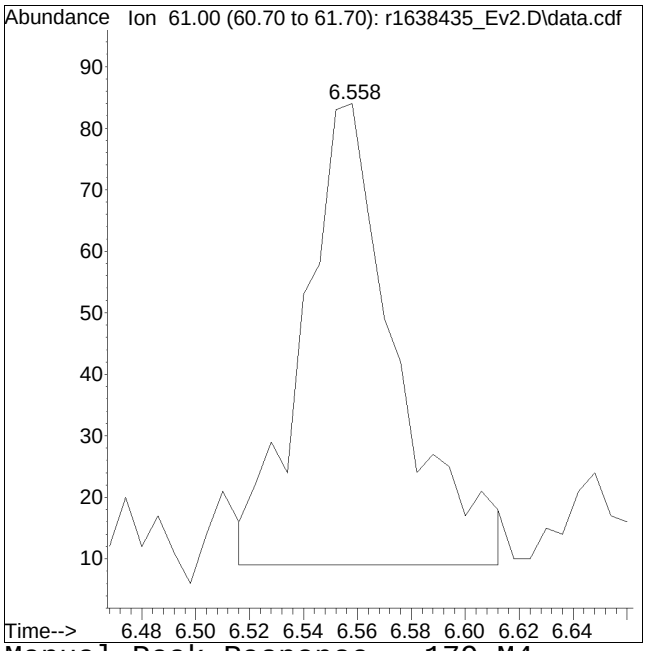
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #17: 1,1-dichloroethene



Original Peak Response = 96



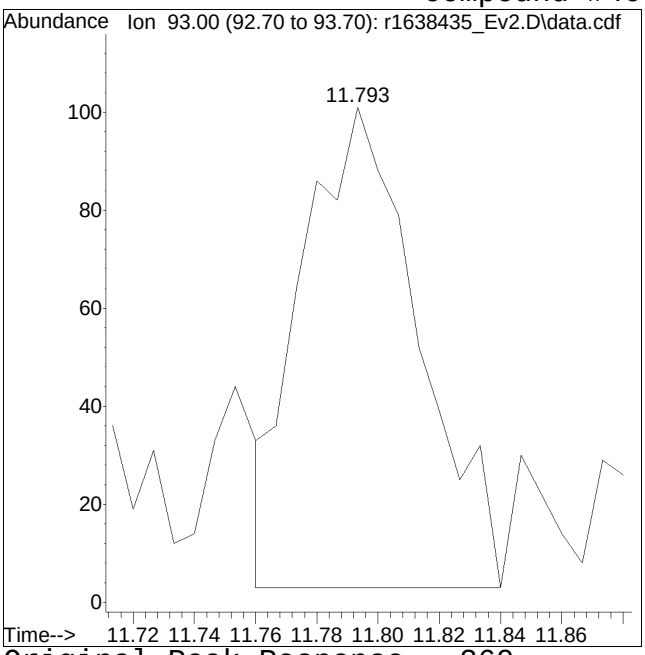
Manual Peak Response = 179 M4

M4 = Poor automated baseline construction.

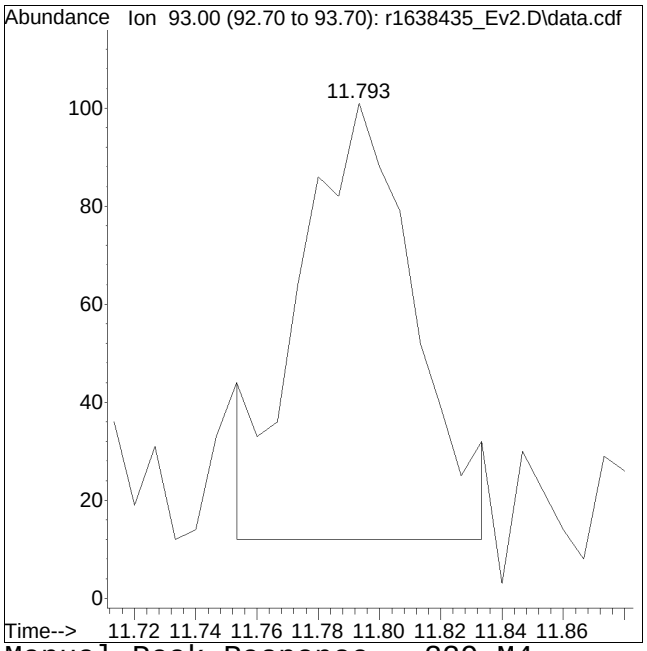
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #40: Dibromomethane



Original Peak Response = 260



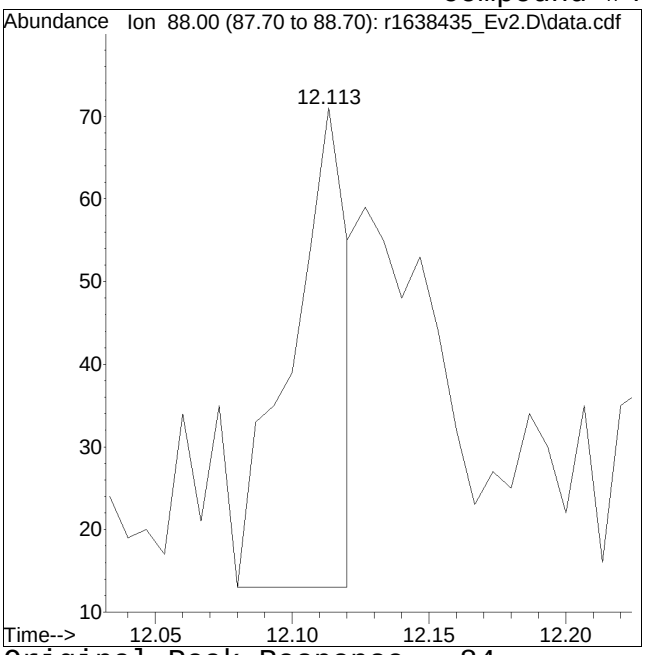
Manual Peak Response = 229 M4

M4 = Poor automated baseline construction.

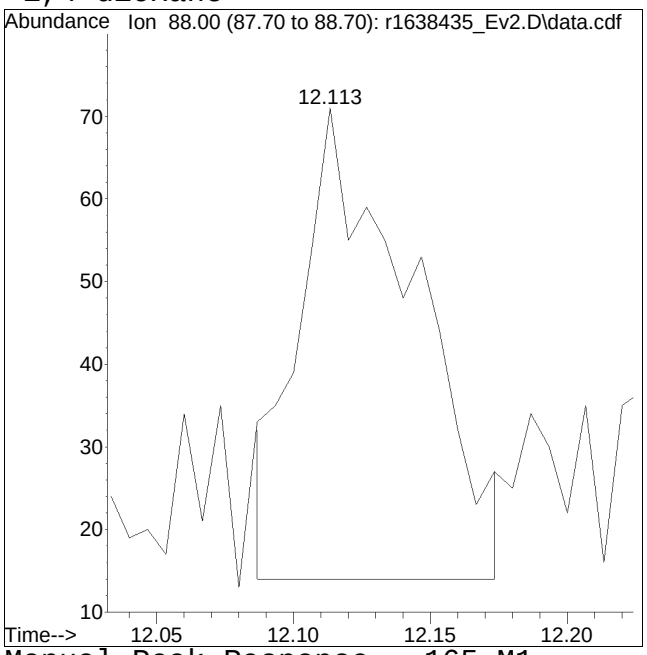
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #43: 1,4-dioxane



Original Peak Response = 84



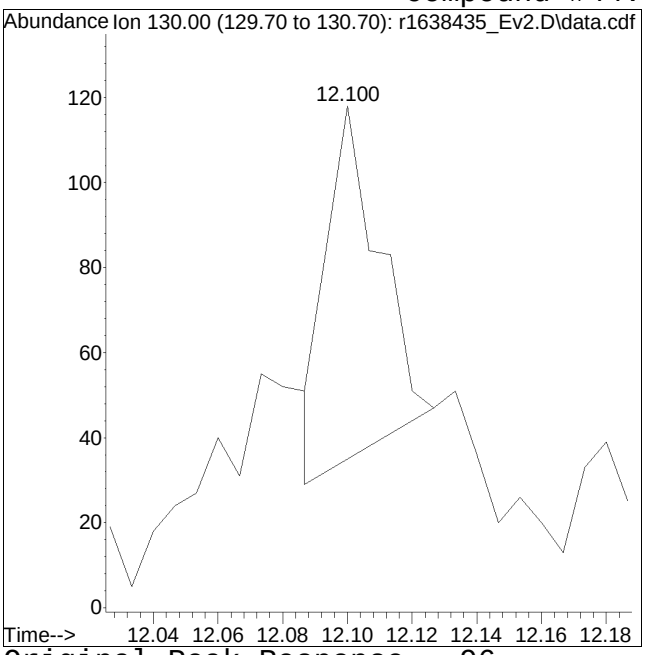
Manual Peak Response = 165 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

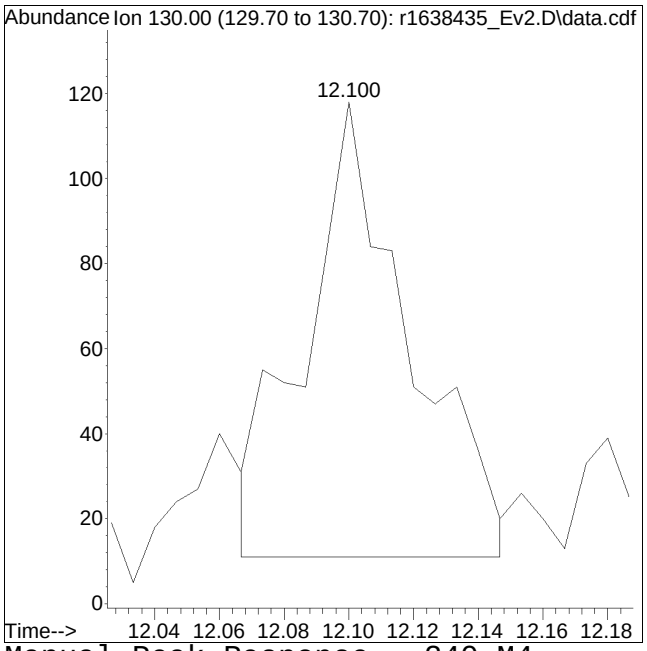
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #44: trichloroethene



Original Peak Response = 96



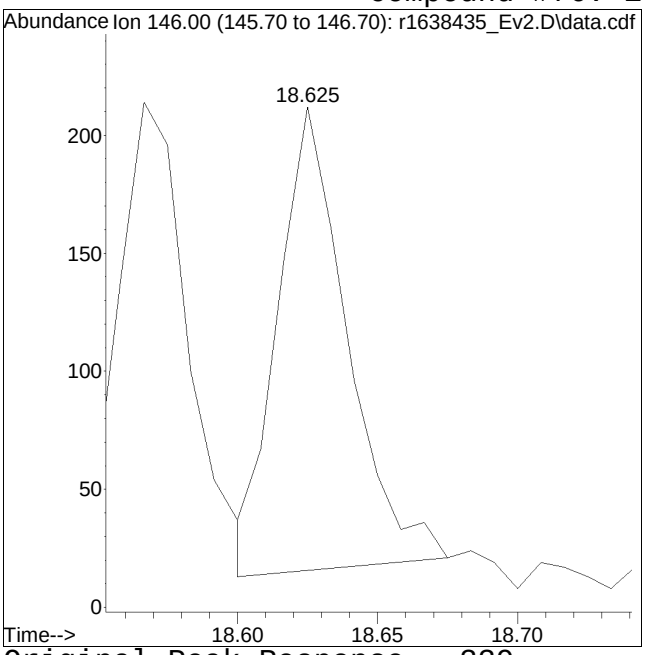
Manual Peak Response = 240 M4

M4 = Poor automated baseline construction.

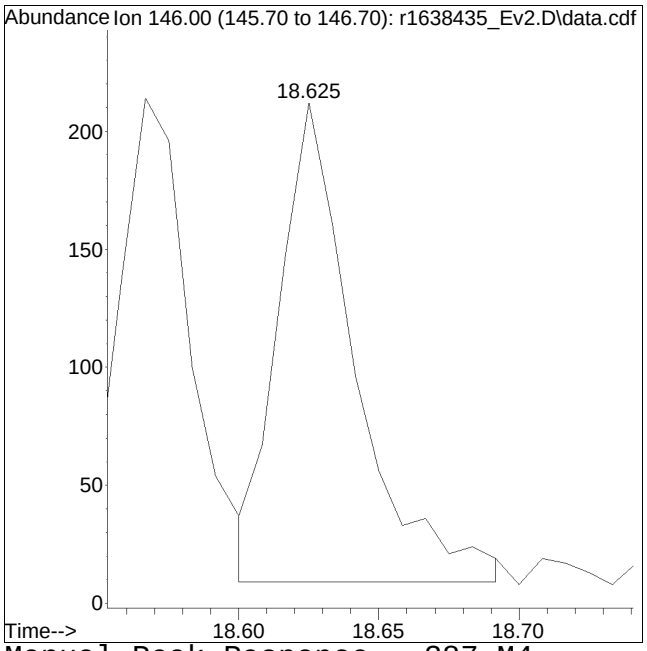
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638435_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 7 Instrument :
Sample : ITO15-SIMTD0.02 Quant Date : 7/25/2023 10:00 pm

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 339



Manual Peak Response = 387 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638436_Ev2.D
Acq On : 25 Jul 2023 7:53 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.05
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:21 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	122816	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 98.73%			
33) 1,4-difluorobenzene	11.300	114	432060	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 98.28%			
51) chlorobenzene-D5	15.975	54	49362	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 98.74%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	14.133	98	8634	0.219	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.19%#			
67) bromofluorobenzene	17.333	95	2191	0.088	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.88%#			
Target Compounds						Qvalue
2) propylene	3.952	41	531M6	0.080	ppbV	
3) dichlorodifluoromethane	4.024	85	1167	0.109	ppbV	99
4) chloromethane	4.186	50	725	0.129	ppbV	89
5) Freon-114	4.294	85	436	0.035	ppbV	95
6) vinyl chloride	4.414	62	290	0.050	ppbV #	71
7) 1,3-butadiene	4.558	54	158	0.036	ppbV #	66
8) bromomethane	4.846	94	236	0.044	ppbV	99
9) chloroethane	5.026	64	104	0.038	ppbV #	62
10) ethanol	5.158	31	1092	0.411	ppbV	91
11) vinyl bromide	5.403	106	197	0.035	ppbV	96
12) acrolein	5.530	56	109M2	0.049	ppbV	
13) acetone	5.673	43	4593	0.636	ppbV #	99
14) trichlorofluoromethane	5.860	101	477	0.062	ppbV	99
15) isopropyl alcohol	5.950	45	1328	0.132	ppbV #	90
16) acrylonitrile	6.177	53	157M1	0.031	ppbV	
17) 1,1-dichloroethene	6.552	61	325	0.035	ppbV #	92
18) tertiary butyl alcohol	6.618	59	342	0.033	ppbV #	69
19) methylene chloride	6.690	49	26226	3.718	ppbV	97
20) 3-chloropropene	6.822	41	334	0.032	ppbV #	66
21) carbon disulfide	7.002	76	607	0.032	ppbV #	1
22) Freon 113	6.996	101	627	0.049	ppbV	95
23) trans-1,2-dichloroethene	7.733	61	423	0.042	ppbV	98
24) 1,1-dichloroethane	7.958	63	448	0.036	ppbV #	79

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638436_Ev2.D
Acq On : 25 Jul 2023 7:53 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.05
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:21 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	469	0.032	ppbV	#	64
26) vinyl acetate	8.142	43	941	0.059	ppbV	#	78
27) 2-butanone	8.417	43	944	0.058	ppbV	#	82
28) cis-1,2-dichloroethene	8.892	61	391	0.043	ppbV		87
29) Ethyl Acetate	9.175	61	103	0.039	ppbV	#	23
30) chloroform	9.233	83	457	0.041	ppbV	#	88
31) Tetrahydrofuran	9.708	42	320	0.031	ppbV	#	75
32) 1,2-dichloroethane	10.067	62	253	0.040	ppbV	#	69
34) hexane	9.150	57	703	0.061	ppbV	#	29
36) 1,1,1-trichloroethane	10.358	97	403	0.044	ppbV	#	71
37) benzene	10.880	78	1315	0.058	ppbV		95
38) carbon tetrachloride	11.060	117	390	0.048	ppbV	#	87
39) cyclohexane	11.200	56	526	0.044	ppbV	#	84
40) Dibromomethane	11.787	93	437	0.056	ppbV	#	72
41) 1,2-dichloropropane	11.820	63	353	0.039	ppbV	#	83
42) bromodichloromethane	12.053	83	362	0.033	ppbV	#	87
43) 1,4-dioxane	12.107	88	290	0.053	ppbV		99
44) trichloroethene	12.100	130	456	0.042	ppbV		94
45) 2,2,4-trimethylpentane	12.147	57	1524	0.041	ppbV	#	91
46) heptane	12.460	43	734	0.044	ppbV	#	91
47) cis-1,3-dichloropropene	13.108	75	337	0.031	ppbV	#	77
48) 4-methyl-2-pentanone	13.158	43	586	0.030	ppbV	#	89
49) trans-1,3-dichloropropene	13.725	75	233	0.027	ppbV	#	51
50) 1,1,2-trichloroethane	13.925	97	365	0.038	ppbV		97
52) toluene	14.242	91	2007	0.069	ppbV		98
54) 2-hexanone	14.550		0	N.D.			
55) dibromochloromethane	14.692	129	347	0.028	ppbV	#	84
56) 1,2-dibromoethane	14.933	107	449	0.033	ppbV		98
57) tetrachloroethene	15.392	166	597	0.051	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	344	0.036	ppbV	#	92
59) chlorobenzene	16.017	112	826	0.036	ppbV		93
60) ethylbenzene	16.358	91	1374	0.037	ppbV		96
61) m+p-xylene	16.508	91	2256	0.077	ppbV		99
62) bromoform	16.583	173	269M4	0.029	ppbV		
63) styrene	16.842	104	737	0.031	ppbV	#	86
64) 1,1,2,2-tetrachloroethane	16.933	83	792	0.036	ppbV		98
65) o-xylene	16.933	91	1172	0.039	ppbV		99
66) 1,2,3-Trichloropropane	17.050	75	472	0.032	ppbV	#	74
68) isopropylbenzene	17.450	105	1182	0.032	ppbV		95
69) Bromobenzene	17.525	77	688	0.035	ppbV		95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638436_Ev2.D
Acq On : 25 Jul 2023 7:53 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.05
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:21 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

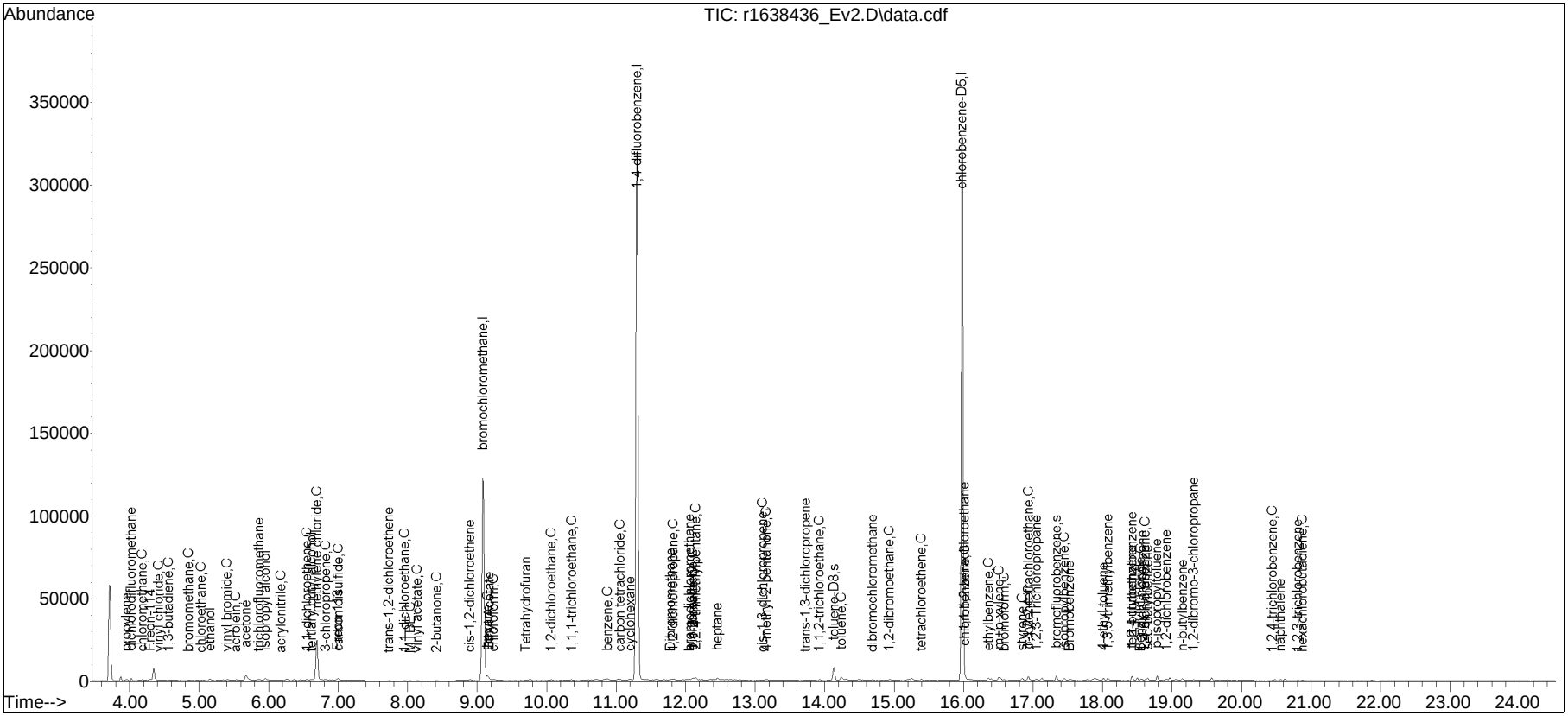
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.008	105	1258	0.032	ppbV #	95
71) 1,3,5-trimethylbenzene	18.075	105	1024	0.030	ppbV #	97
72) tert-butylbenzene	18.425	119	1152	0.032	ppbV	95
73) 1,2,4-trimethylbenzene	18.425	105	1073	0.031	ppbV	99
74) Benzyl Chloride	18.550	91	271	0.016	ppbV #	75
75) 1,3-dichlorobenzene	18.567	146	779	0.030	ppbV	96
76) 1,4-dichlorobenzene	18.617	146	797M3	0.031	ppbV	
77) sec-butylbenzene	18.650	105	1459	0.030	ppbV	94
78) p-isopropyltoluene	18.783	119	1287	0.029	ppbV	94
79) 1,2-dichlorobenzene	18.917	146	771	0.031	ppbV #	88
80) n-butylbenzene	19.150	91	1078	0.028	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.308	75	161	0.022	ppbV #	80
82) 1,2,4-trichlorobenzene	20.442	180	440	0.027	ppbV #	84
83) naphthalene	20.558	128	1291	0.026	ppbV #	85
84) 1,2,3-trichlorobenzene	20.808	180	408	0.028	ppbV #	80
85) hexachlorobutadiene	20.875	225	377	0.031	ppbV #	85

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

Sub List : Default-ICV-AP2 - All compounds listed5SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638436_Ev2.D
Acq On : 25 Jul 2023 7:53 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.05
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

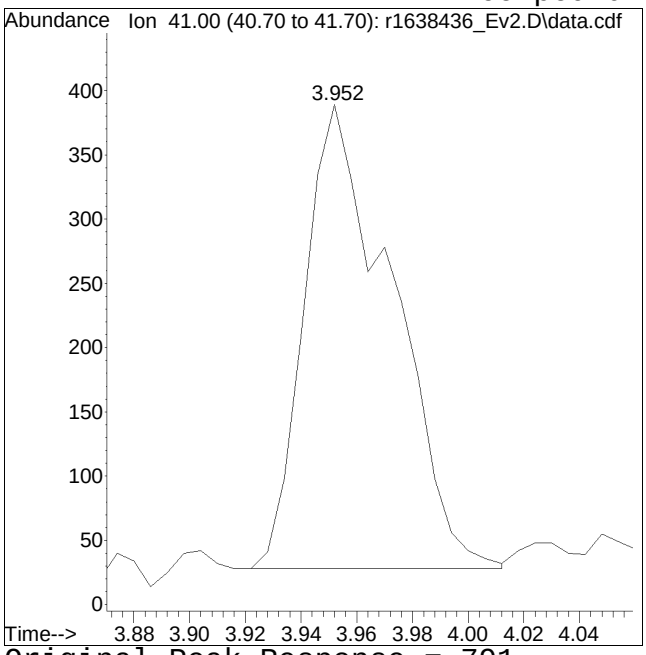
Quant Time: Jul 25 22:00:21 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



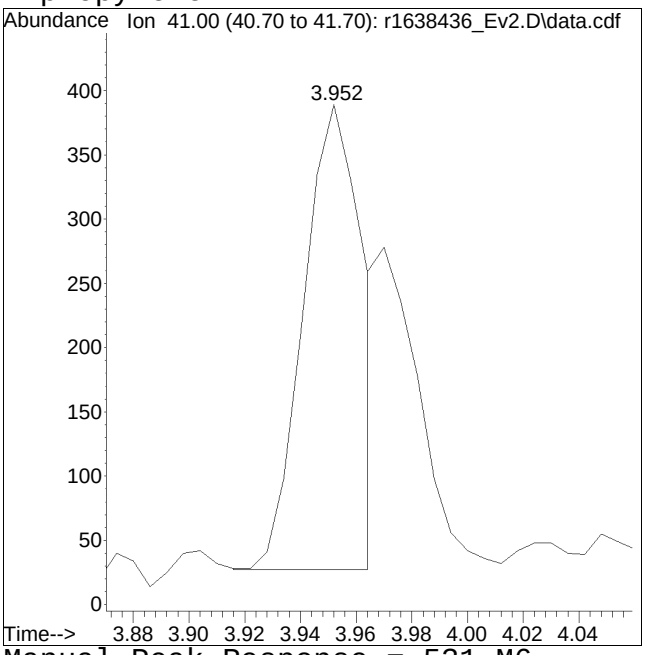
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638436_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 3 Instrument :
Sample : ITO15-SIMTD0.05 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 791



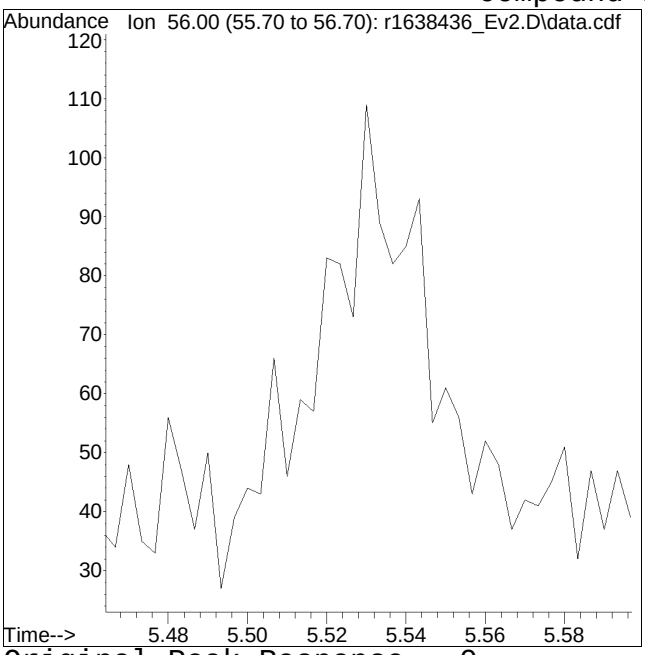
Manual Peak Response = 531 M6

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

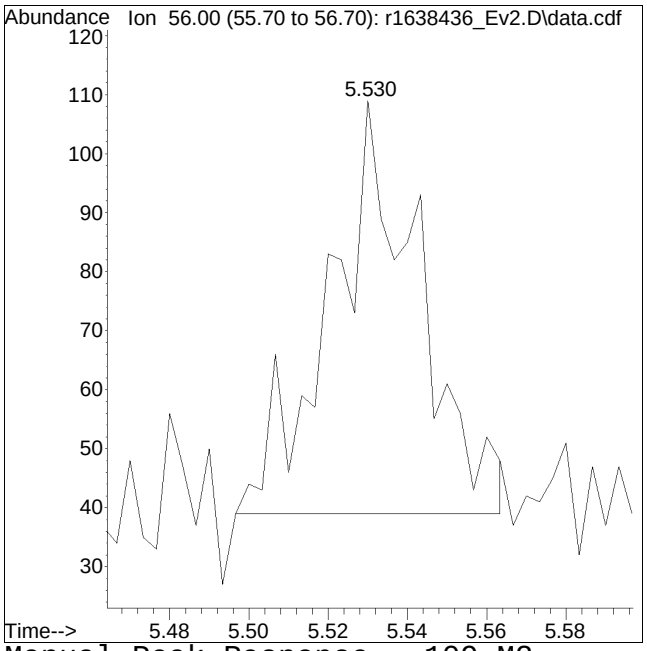
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638436_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 3 Instrument :
Sample : ITO15-SIMTD0.05 Quant Date : 7/25/2023 10:00 pm

Compound #12: acrolein



Original Peak Response = 0



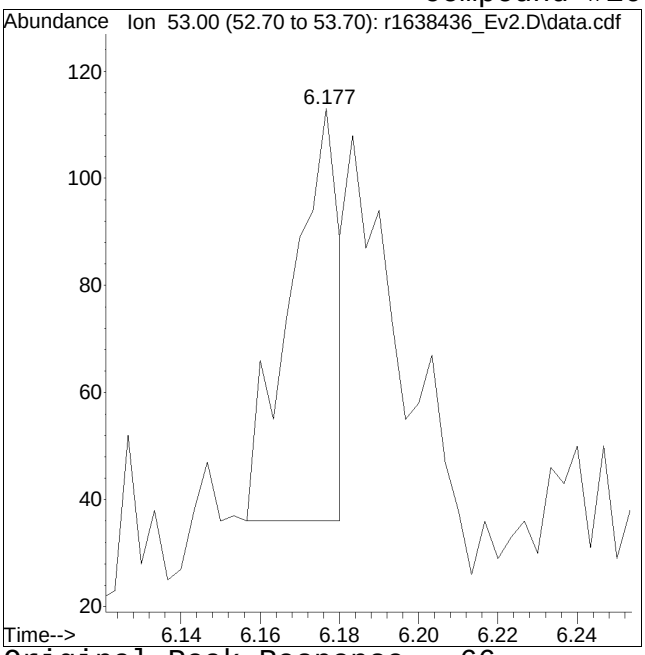
Manual Peak Response = 109 M2

M2 = Peak not found by automatic integration algorithm.

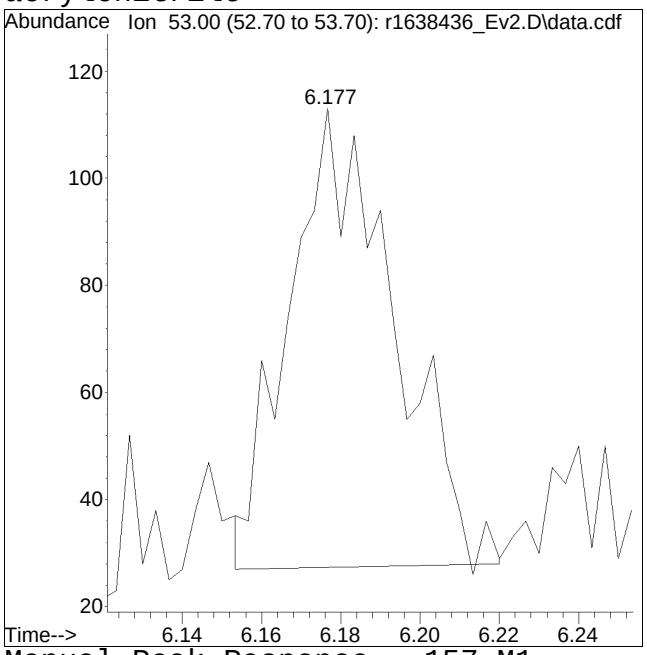
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638436_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 3 Instrument :
Sample : ITO15-SIMTD0.05 Quant Date : 7/25/2023 10:00 pm

Compound #16: acrylonitrile



Original Peak Response = 66



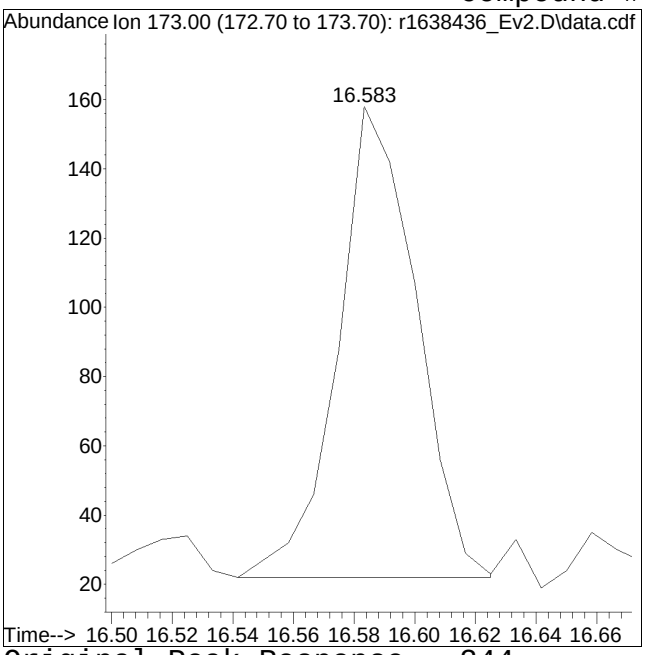
Manual Peak Response = 157 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

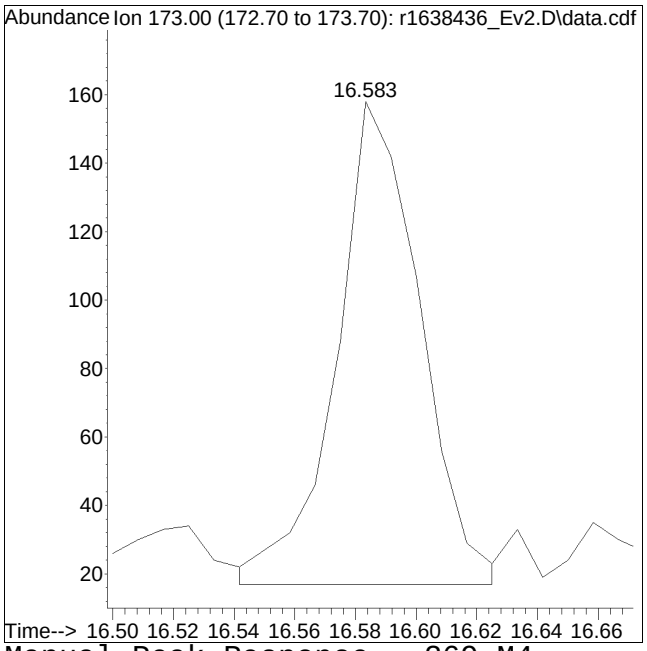
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638436_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 3 Instrument :
Sample : ITO15-SIMTD0.05 Quant Date : 7/25/2023 10:00 pm

Compound #62: bromoform



Original Peak Response = 244



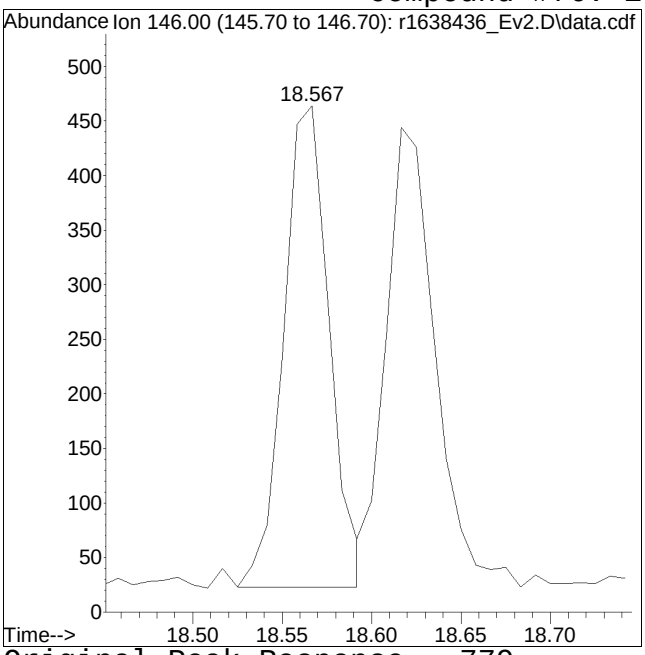
Manual Peak Response = 269 M4

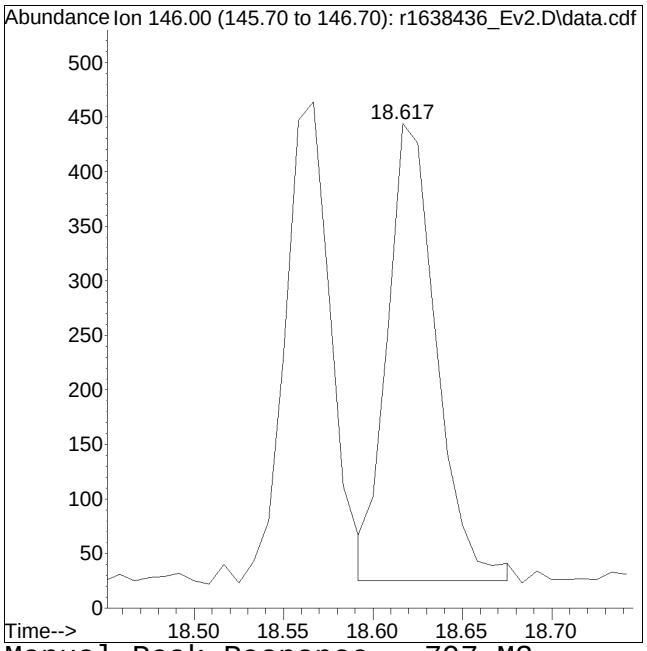
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638436_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:7: 3 Instrument :
Sample : ITO15-SIMTD0.05 Quant Date : 7/25/2023 10:00 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 779 Manual Peak Response = 797 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638437_Ev2.D
Acq On : 25 Jul 2023 8:32 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.1
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	122376	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 98.38%			
33) 1,4-difluorobenzene	11.300	114	429730	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 97.75%			
51) chlorobenzene-D5	15.975	54	49362	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 98.74%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	14.133	98	8662	0.219	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.19%#			
67) bromofluorobenzene	17.333	95	2147	0.086	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.86%#			
Target Compounds						Qvalue
2) propylene	3.946	41	1156	0.176	ppbV	97
3) dichlorodifluoromethane	4.024	85	2799	0.263	ppbV	98
4) chloromethane	4.186	50	1706	0.305	ppbV	97
5) Freon-114	4.294	85	827	0.068	ppbV	96
6) vinyl chloride	4.414	62	359	0.063	ppbV #	83
7) 1,3-butadiene	4.558	54	252	0.058	ppbV #	78
8) bromomethane	4.840	94	367	0.068	ppbV	99
9) chloroethane	5.026	64	169	0.062	ppbV #	89
10) ethanol	5.152	31	6465	2.443	ppbV	97
11) vinyl bromide	5.403	106	341	0.060	ppbV	95
12) acrolein	5.533	56	177M1	0.079	ppbV	
13) acetone	5.670	43	10703M6	1.488	ppbV	
14) trichlorofluoromethane	5.860	101	1183	0.154	ppbV	99
15) isopropyl alcohol	5.950	45	2637	0.264	ppbV	99
16) acrylonitrile	6.180	53	289M1	0.057	ppbV	
17) 1,1-dichloroethene	6.558	61	504	0.055	ppbV	97
18) tertiary butyl alcohol	6.612	59	595	0.058	ppbV #	86
19) methylene chloride	6.696	49	22663	3.224	ppbV	100
20) 3-chloropropene	6.822	41	553	0.052	ppbV #	85
21) carbon disulfide	7.002	76	960	0.051	ppbV #	1
22) Freon 113	6.996	101	1107	0.087	ppbV	99
23) trans-1,2-dichloroethene	7.733	61	674	0.067	ppbV	99
24) 1,1-dichloroethane	7.958	63	711	0.057	ppbV	93

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638437_Ev2.D
Acq On : 25 Jul 2023 8:32 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.1
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.042	73	815	0.056	ppbV	#	51
26) vinyl acetate	8.150	43	1847	0.117	ppbV		97
27) 2-butanone	8.408	43	1869	0.115	ppbV		96
28) cis-1,2-dichloroethene	8.900	61	493	0.054	ppbV		99
29) Ethyl Acetate	9.175	61	170	0.065	ppbV		71
30) chloroform	9.242	83	842	0.077	ppbV		97
31) Tetrahydrofuran	9.700	42	544	0.053	ppbV		95
32) 1,2-dichloroethane	10.067	62	401	0.063	ppbV	#	89
34) hexane	9.150	57	1496	0.131	ppbV	#	24
36) 1,1,1-trichloroethane	10.358	97	562	0.062	ppbV	#	95
37) benzene	10.880	78	2492	0.111	ppbV		97
38) carbon tetrachloride	11.053	117	785	0.098	ppbV	#	89
39) cyclohexane	11.200	56	2140	0.179	ppbV		97
40) Dibromomethane	11.793	93	514M4	0.067	ppbV		
41) 1,2-dichloropropane	11.827	63	493	0.055	ppbV	#	87
42) bromodichloromethane	12.047	83	537	0.049	ppbV	#	95
43) 1,4-dioxane	12.107	88	274	0.050	ppbV		98
44) trichloroethene	12.107	130	631	0.059	ppbV		95
45) 2,2,4-trimethylpentane	12.147	57	2826	0.076	ppbV		95
46) heptane	12.460	43	1168	0.070	ppbV		93
47) cis-1,3-dichloropropene	13.108	75	601	0.055	ppbV	#	78
48) 4-methyl-2-pentanone	13.158	43	1034	0.053	ppbV		99
49) trans-1,3-dichloropropene	13.733	75	423	0.050	ppbV	#	85
50) 1,1,2-trichloroethane	13.933	97	561	0.059	ppbV		97
52) toluene	14.242	91	6001	0.207	ppbV		98
54) 2-hexanone	14.542	43	601	0.033	ppbV		99
55) dibromochloromethane	14.683	129	574	0.047	ppbV		97
56) 1,2-dibromoethane	14.933	107	726	0.053	ppbV		100
57) tetrachloroethene	15.392	166	916	0.079	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	554	0.057	ppbV		96
59) chlorobenzene	16.017	112	1236	0.054	ppbV		97
60) ethylbenzene	16.358	91	2431	0.066	ppbV		100
61) m+p-xylene	16.508	91	4401	0.150	ppbV		98
62) bromoform	16.583	173	454M4	0.049	ppbV		
63) styrene	16.842	104	1222	0.052	ppbV		95
64) 1,1,2,2-tetrachloroethane	16.933	83	1166	0.053	ppbV		99
65) o-xylene	16.933	91	2020	0.068	ppbV		96
66) 1,2,3-Trichloropropane	17.042	75	813	0.054	ppbV	#	94
68) isopropylbenzene	17.450	105	1867	0.050	ppbV		100
69) Bromobenzene	17.525	77	980	0.049	ppbV		88

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638437_Ev2.D
Acq On : 25 Jul 2023 8:32 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.1
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

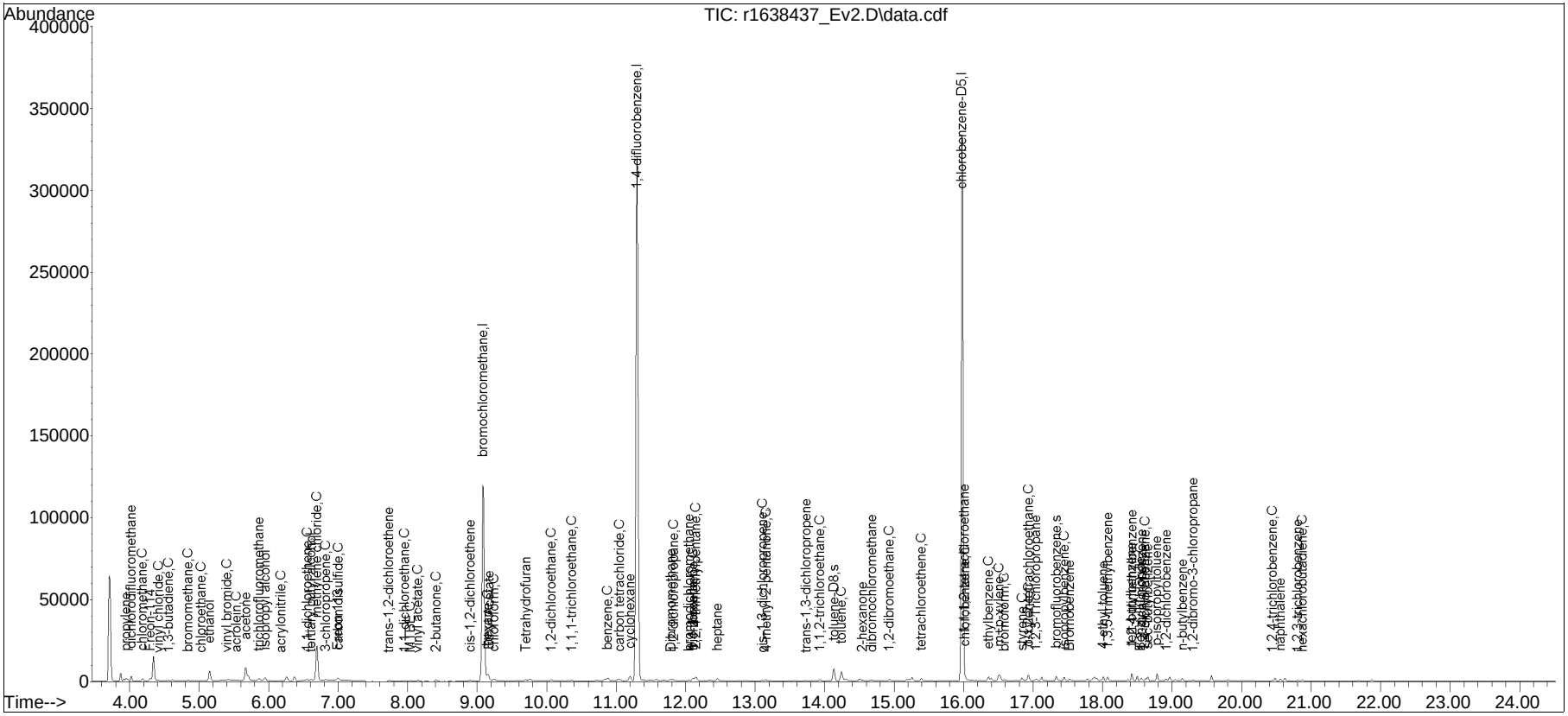
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.008	105	1898M6	0.048	ppbV	
71) 1,3,5-trimethylbenzene	18.075	105	1709	0.051	ppbV #	97
72) tert-butylbenzene	18.417	119	1815	0.050	ppbV	99
73) 1,2,4-trimethylbenzene	18.425	105	1958	0.057	ppbV	96
74) Benzyl Chloride	18.550	91	528	0.031	ppbV #	90
75) 1,3-dichlorobenzene	18.558	146	1298	0.049	ppbV	95
76) 1,4-dichlorobenzene	18.617	146	1339	0.052	ppbV	96
77) sec-butylbenzene	18.650	105	2411	0.049	ppbV	96
78) p-isopropyltoluene	18.783	119	2184	0.050	ppbV	100
79) 1,2-dichlorobenzene	18.917	146	1247	0.050	ppbV	95
80) n-butylbenzene	19.150	91	1690	0.043	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.300	75	293	0.039	ppbV #	86
82) 1,2,4-trichlorobenzene	20.442	180	676	0.042	ppbV #	90
83) naphthalene	20.558	128	2179	0.045	ppbV #	93
84) 1,2,3-trichlorobenzene	20.808	180	577	0.040	ppbV #	90
85) hexachlorobutadiene	20.875	225	624	0.052	ppbV #	91

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

Sub List : Default-ICV-AP2 - All compounds listed5SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638437_Ev2.D
Acq On : 25 Jul 2023 8:32 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMTD0.1
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

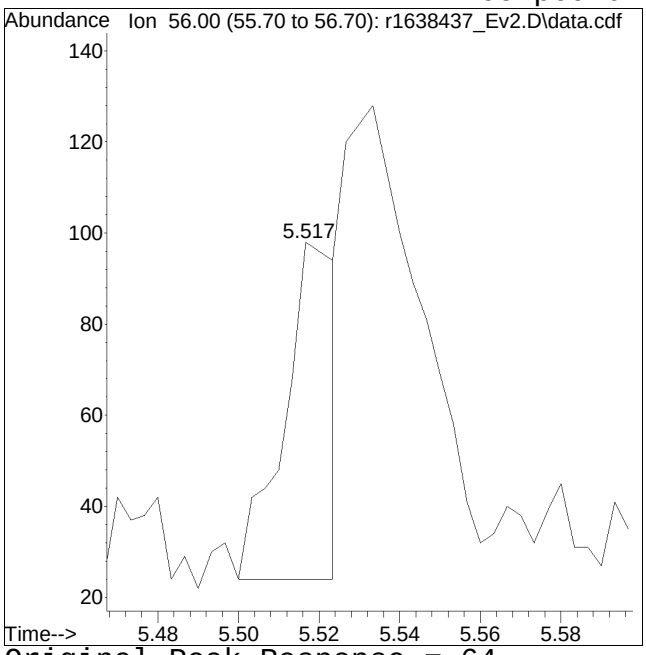
Quant Time: Jul 25 22:00:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



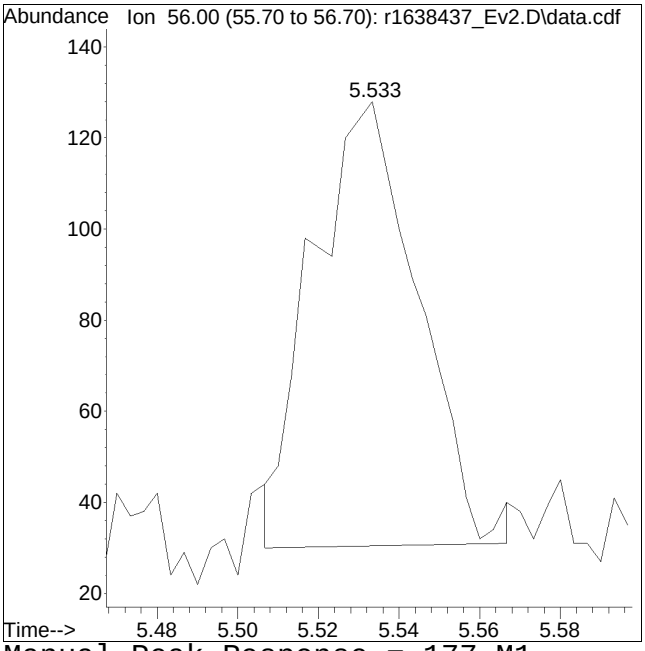
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #12: acrolein



Original Peak Response = 64



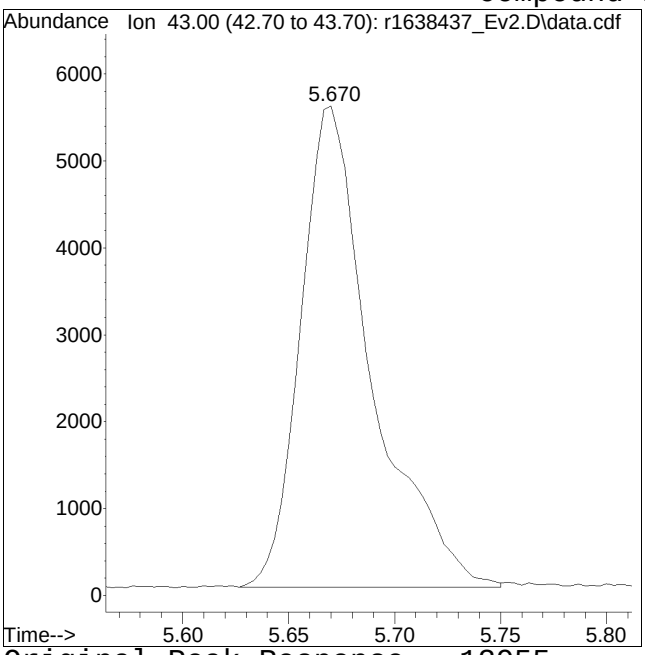
Manual Peak Response = 177 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

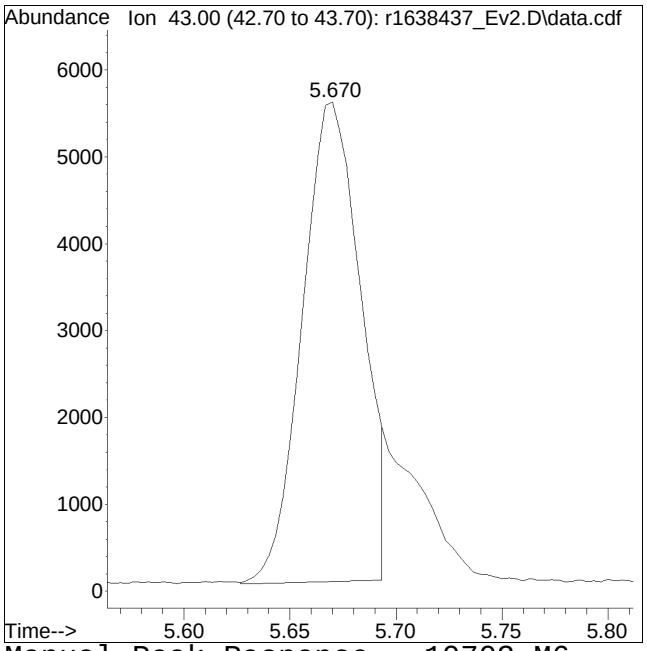
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #13: acetone



Original Peak Response = 12955



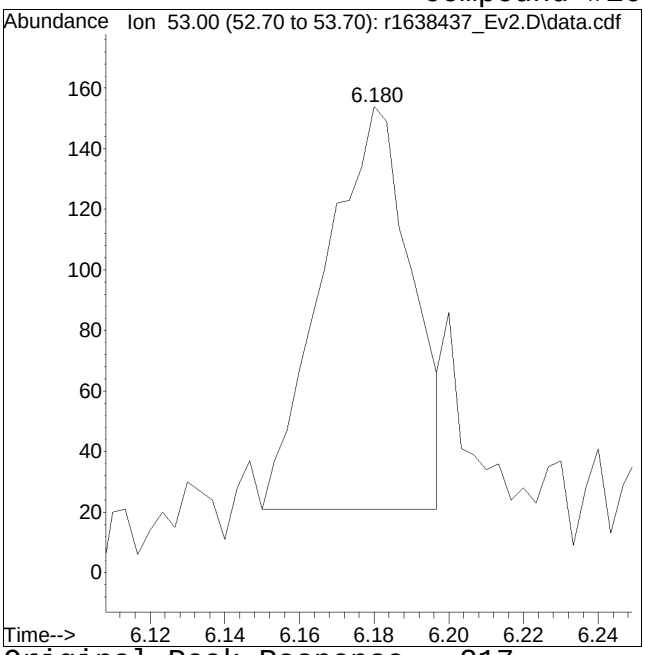
Manual Peak Response = 10703 M6

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

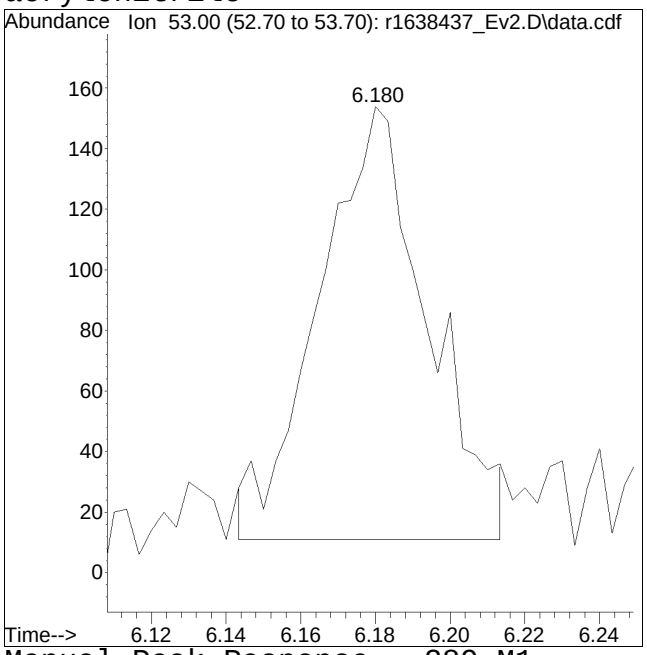
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #16: acrylonitrile



Original Peak Response = 217



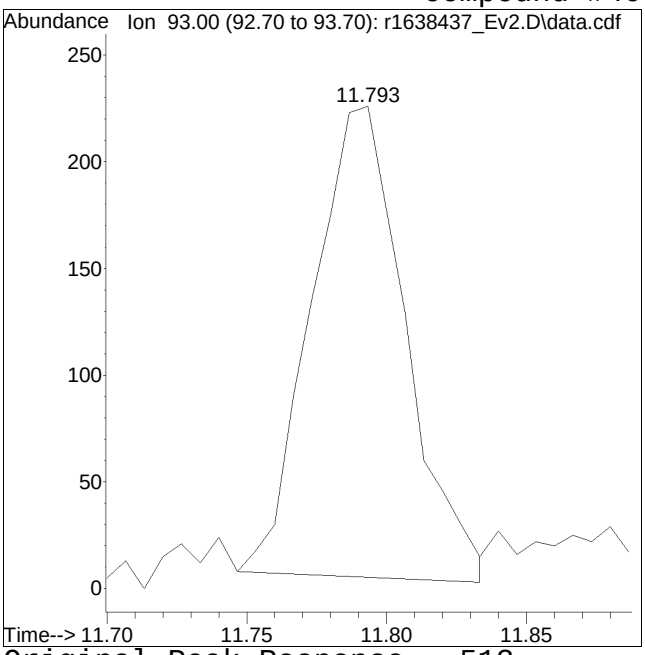
Manual Peak Response = 289 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

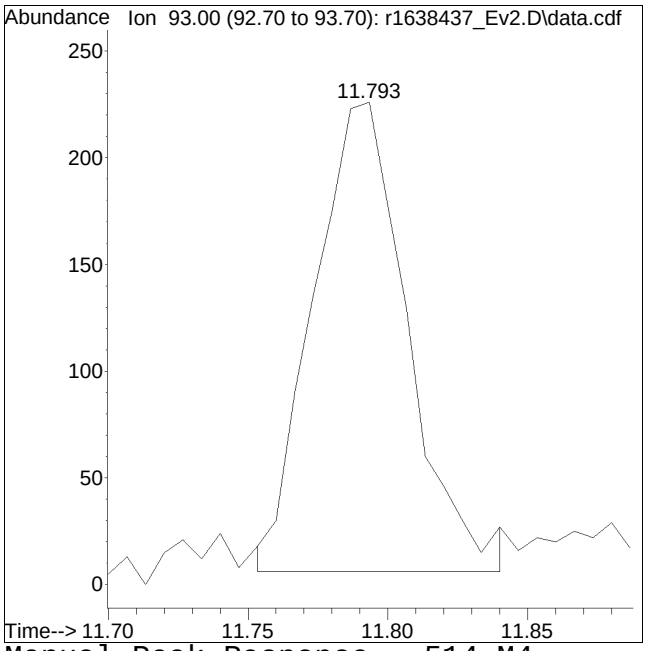
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #40: Dibromomethane



Original Peak Response = 513



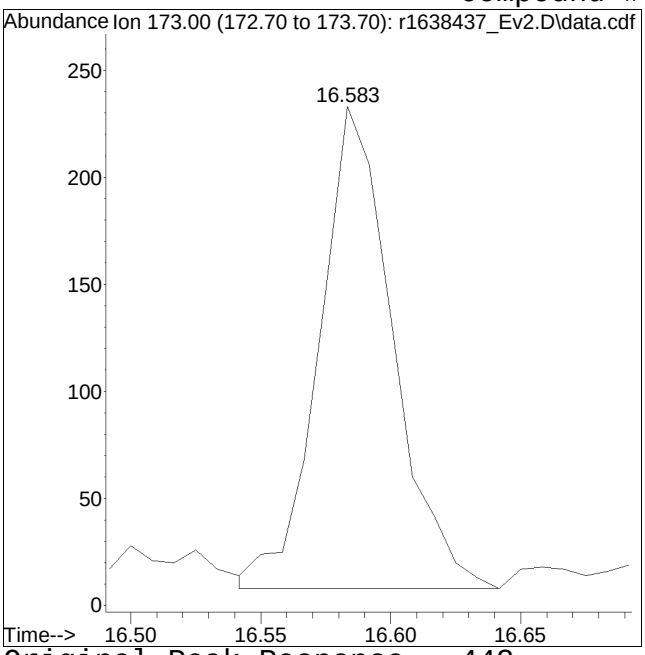
Manual Peak Response = 514 M4

M4 = Poor automated baseline construction.

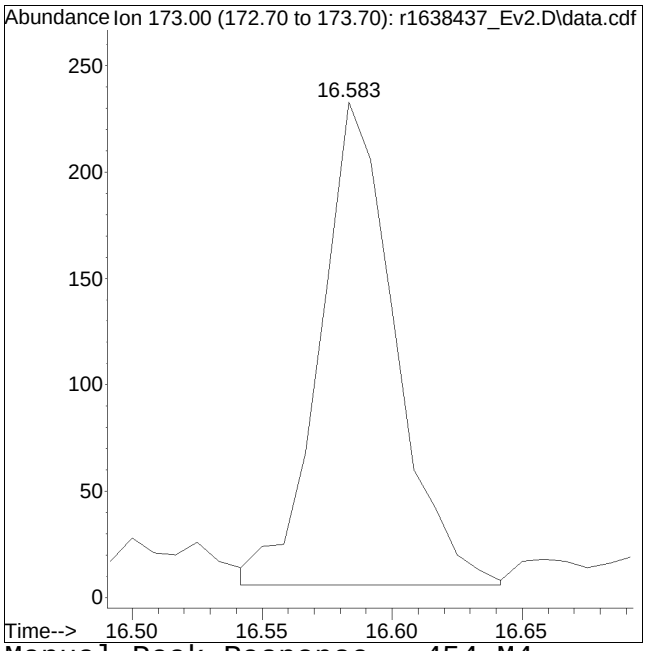
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #62: bromoform



Original Peak Response = 442



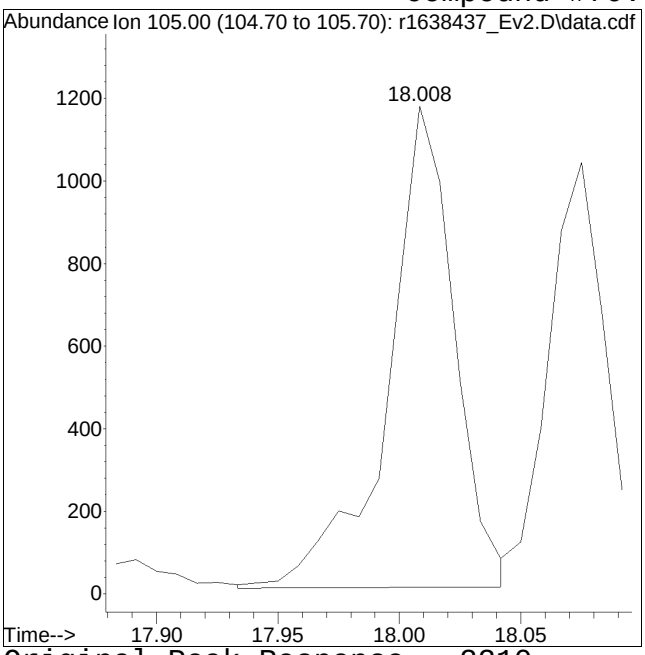
Manual Peak Response = 454 M4

M4 = Poor automated baseline construction.

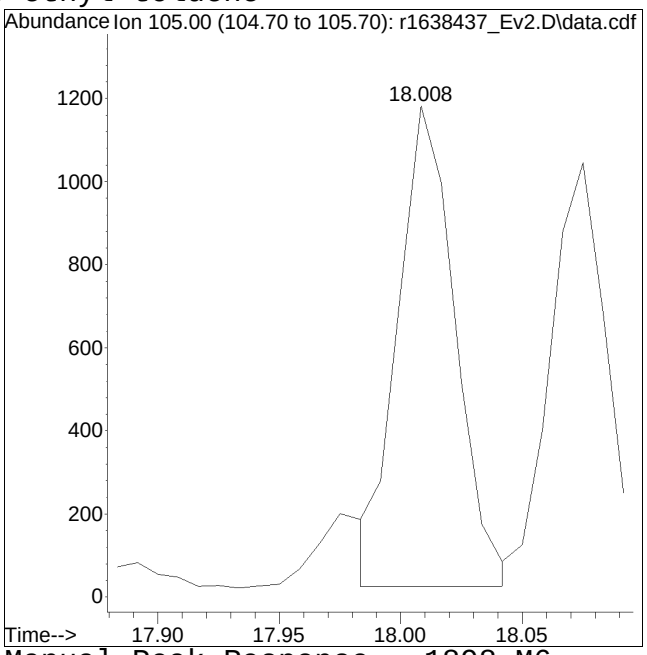
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638437_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:8: 2 Instrument :
Sample : ITO15-SIMTD0.1 Quant Date : 7/25/2023 10:00 pm

Compound #70: 4-ethyl toluene



Original Peak Response = 2210



Manual Peak Response = 1898 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638438_Ev2.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.2
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:33 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	123658	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 99.41%			
33) 1,4-difluorobenzene	11.300	114	437807	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 99.58%			
51) chlorobenzene-D5	15.975	54	50088	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 100.19%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.950	65	103898	10.170	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.70%			
53) toluene-D8	14.133	98	396360	9.890	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.90%			
67) bromofluorobenzene	17.333	95	239332	9.493	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.93%			
Target Compounds						Qvalue
2) propylene	3.958	41	1631M6	0.245	ppbV	
3) dichlorodifluoromethane	4.030	85	2439	0.227	ppbV	99
4) chloromethane	4.192	50	1284	0.227	ppbV	95
5) Freon-114	4.300	85	2776	0.224	ppbV	96
6) vinyl chloride	4.420	62	1320	0.228	ppbV	95
7) 1,3-butadiene	4.564	54	983	0.225	ppbV	91
8) bromomethane	4.846	94	1251	0.230	ppbV	97
9) chloroethane	5.032	64	627	0.229	ppbV #	85
10) ethanol	5.152	31	3866	1.446	ppbV	97
11) vinyl bromide	5.410	106	1212	0.212	ppbV	93
12) acrolein	5.540	56	494	0.219	ppbV #	62
13) acetone	5.677	43	8431	1.160	ppbV #	99
14) trichlorofluoromethane	5.867	101	1780	0.229	ppbV	100
15) isopropyl alcohol	5.947	45	5972	0.591	ppbV #	96
16) acrylonitrile	6.187	53	1079	0.212	ppbV	98
17) 1,1-dichloroethene	6.558	61	2152	0.231	ppbV	98
18) tertiary butyl alcohol	6.606	59	1934	0.185	ppbV #	83
19) methylene chloride	6.696	49	1850	0.260	ppbV	99
20) 3-chloropropene	6.828	41	2237	0.210	ppbV	94
21) carbon disulfide	7.002	76	3804	0.198	ppbV #	62
22) Freon 113	6.996	101	2906	0.225	ppbV	99
23) trans-1,2-dichloroethene	7.742	61	2196	0.216	ppbV	99
24) 1,1-dichloroethane	7.958	63	2842	0.226	ppbV	98

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638438_Ev2.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.2
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:33 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	3045	0.205	ppbV		95
26) vinyl acetate	8.142	43	3288	0.205	ppbV		96
27) 2-butanone	8.408	43	3485	0.212	ppbV	#	96
28) cis-1,2-dichloroethene	8.900	61	2090	0.226	ppbV		98
29) Ethyl Acetate	9.175	61	519	0.198	ppbV		69
30) chloroform	9.242	83	2575	0.232	ppbV		98
31) Tetrahydrofuran	9.692	42	2164M6	0.210	ppbV		
32) 1,2-dichloroethane	10.067	62	1698	0.266	ppbV		94
34) hexane	9.150	57	2489	0.214	ppbV	#	59
36) 1,1,1-trichloroethane	10.358	97	2050	0.221	ppbV		96
37) benzene	10.887	78	5189	0.228	ppbV		97
38) carbon tetrachloride	11.060	117	1775	0.217	ppbV	#	96
39) cyclohexane	11.200	56	2472	0.203	ppbV		96
40) Dibromomethane	11.793	93	1761	0.225	ppbV	#	99
41) 1,2-dichloropropane	11.827	63	2087	0.229	ppbV		97
42) bromodichloromethane	12.053	83	2175	0.195	ppbV		95
43) 1,4-dioxane	12.100	88	1104	0.197	ppbV		94
44) trichloroethene	12.100	130	2431	0.223	ppbV		99
45) 2,2,4-trimethylpentane	12.147	57	8016M6	0.212	ppbV		
46) heptane	12.460	43	3700	0.219	ppbV		99
47) cis-1,3-dichloropropene	13.108	75	2213	0.200	ppbV		94
48) 4-methyl-2-pentanone	13.150	43	3727	0.188	ppbV		98
49) trans-1,3-dichloropropene	13.733	75	1698	0.196	ppbV		93
50) 1,1,2-trichloroethane	13.933	97	2204	0.226	ppbV		98
52) toluene	14.242	91	6544	0.223	ppbV		99
54) 2-hexanone	14.525	43	2968	0.161	ppbV		95
55) dibromochloromethane	14.692	129	2193M4	0.177	ppbV		
56) 1,2-dibromoethane	14.933	107	2940	0.210	ppbV		99
57) tetrachloroethene	15.392	166	2702	0.230	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	1993	0.203	ppbV		97
59) chlorobenzene	16.017	112	5150	0.221	ppbV		98
60) ethylbenzene	16.358	91	7946	0.212	ppbV		99
61) m+p-xylene	16.517	91	12478	0.419	ppbV		99
62) bromoform	16.592	173	1631M4	0.172	ppbV		
63) styrene	16.842	104	4798	0.200	ppbV		96
64) 1,1,2,2-tetrachloroethane	16.933	83	4743	0.214	ppbV		98
65) o-xylene	16.933	91	6469	0.214	ppbV		98
66) 1,2,3-Trichloropropane	17.050	75	3241	0.213	ppbV		97
68) isopropylbenzene	17.450	105	8203	0.218	ppbV		97
69) Bromobenzene	17.533	77	4405	0.219	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638438_Ev2.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.2
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:33 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

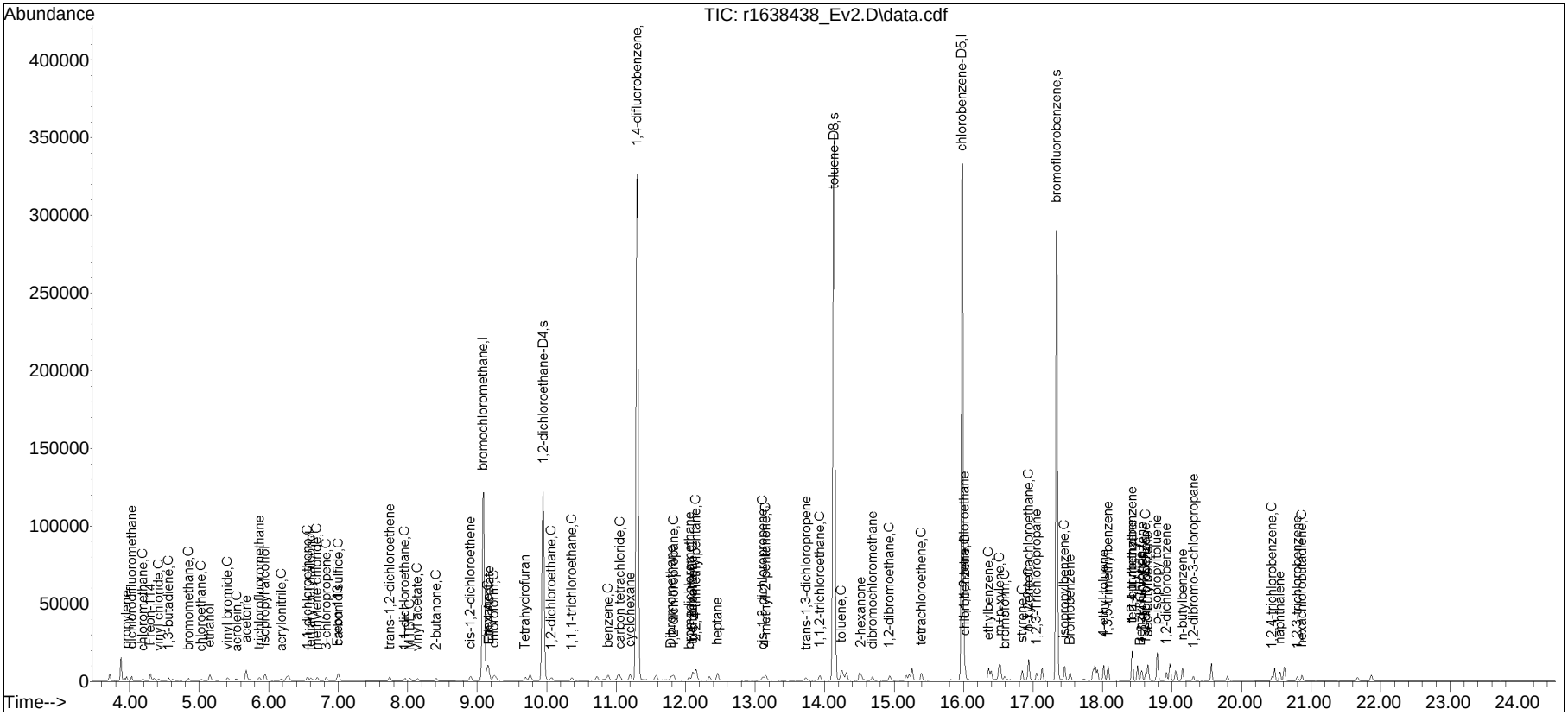
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	8207	0.203	ppbV	99
71) 1,3,5-trimethylbenzene	18.075	105	7210	0.211	ppbV	96
72) tert-butylbenzene	18.425	119	7695	0.208	ppbV	100
73) 1,2,4-trimethylbenzene	18.425	105	7182	0.206	ppbV	95
74) Benzyl Chloride	18.550	91	2293	0.134	ppbV	99
75) 1,3-dichlorobenzene	18.567	146	5593	0.210	ppbV	98
76) 1,4-dichlorobenzene	18.625	146	5477	0.208	ppbV	99
77) sec-butylbenzene	18.650	105	10608	0.214	ppbV	97
78) p-isopropyltoluene	18.783	119	9226	0.206	ppbV	97
79) 1,2-dichlorobenzene	18.917	146	5324	0.208	ppbV	95
80) n-butylbenzene	19.150	91	8047	0.203	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.308	75	1290	0.170	ppbV	89
82) 1,2,4-trichlorobenzene	20.433	180	2926	0.180	ppbV	95
83) naphthalene	20.550	128	9112	0.184	ppbV	97
84) 1,2,3-trichlorobenzene	20.800	180	2893	0.196	ppbV	94
85) hexachlorobutadiene	20.867	225	2658	0.218	ppbV	94

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638438_Ev2.D
Acq On : 25 Jul 2023 9:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.2
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

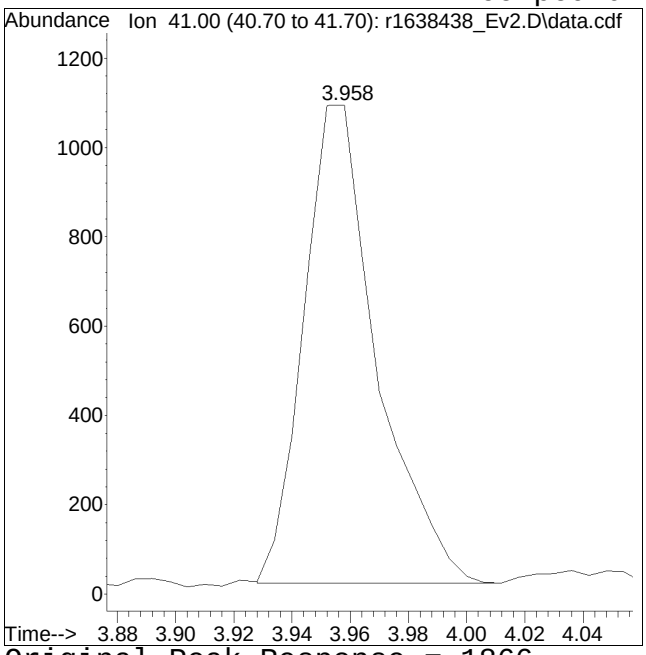
Quant Time: Jul 25 22:00:33 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



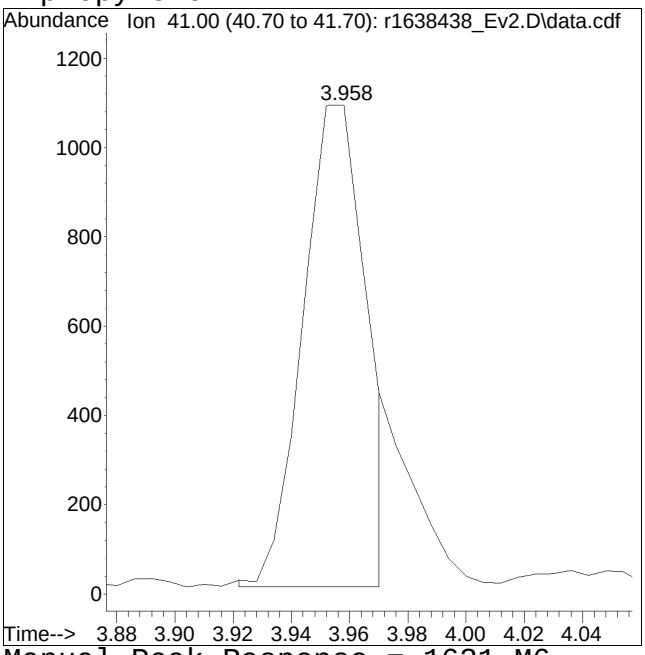
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638438_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 1866



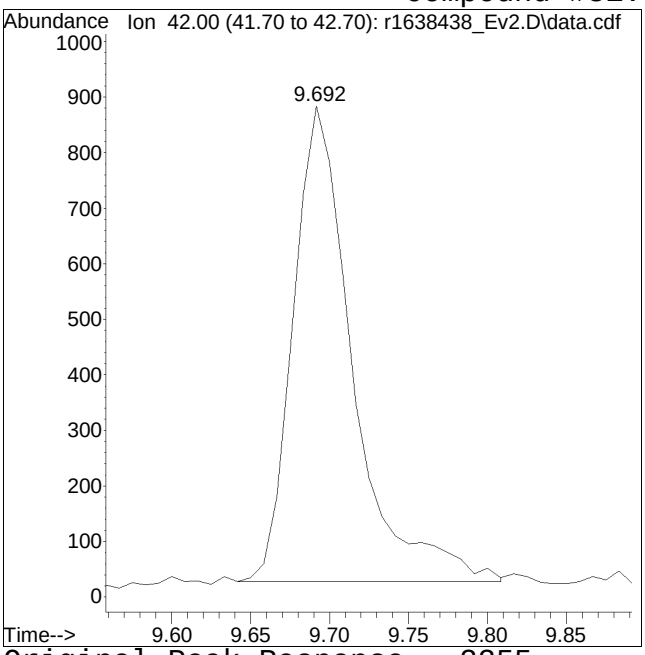
Manual Peak Response = 1631 M6

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

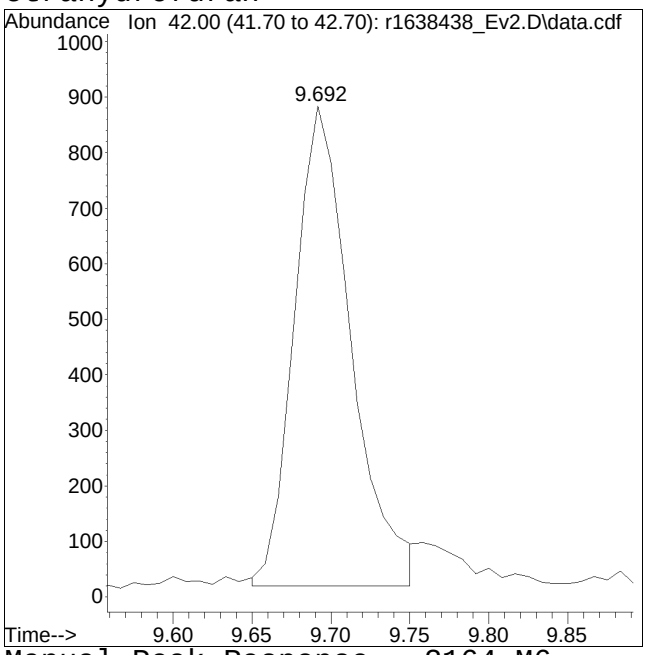
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638438_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 7/25/2023 10:00 pm

Compound #31: Tetrahydrofuran



Original Peak Response = 2255



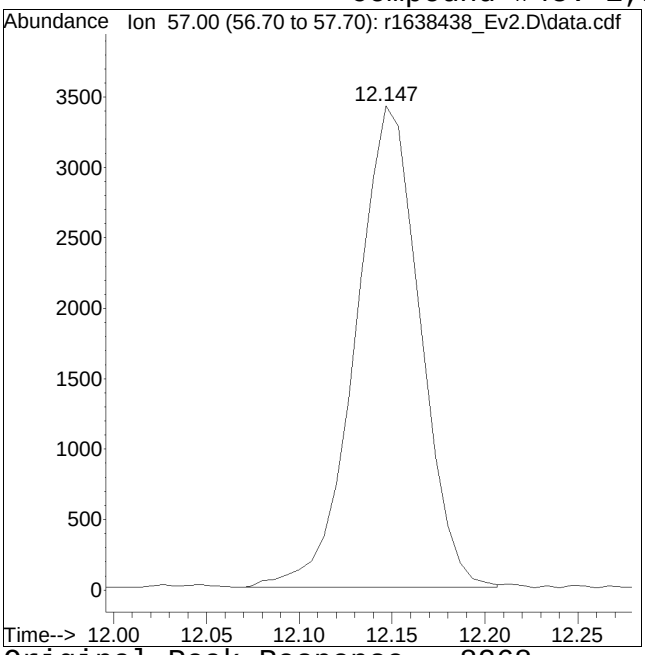
Manual Peak Response = 2164 M6

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

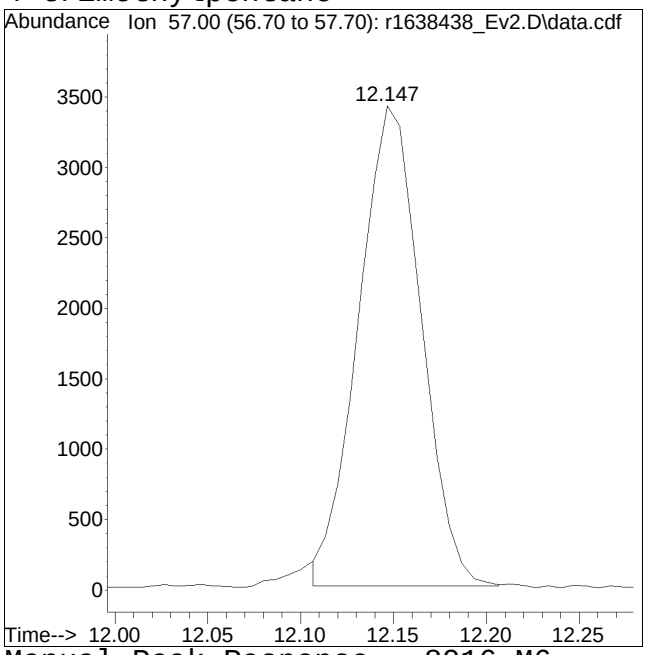
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638438_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 7/25/2023 10:00 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 8268



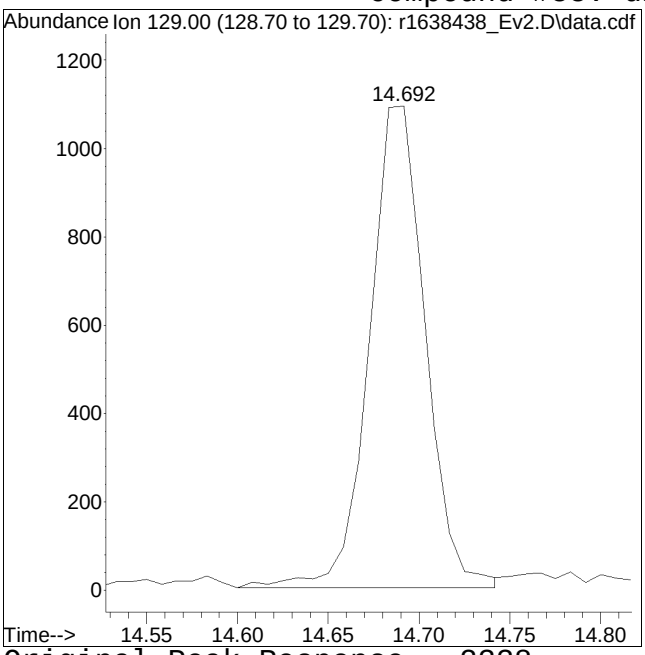
Manual Peak Response = 8016 M6

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

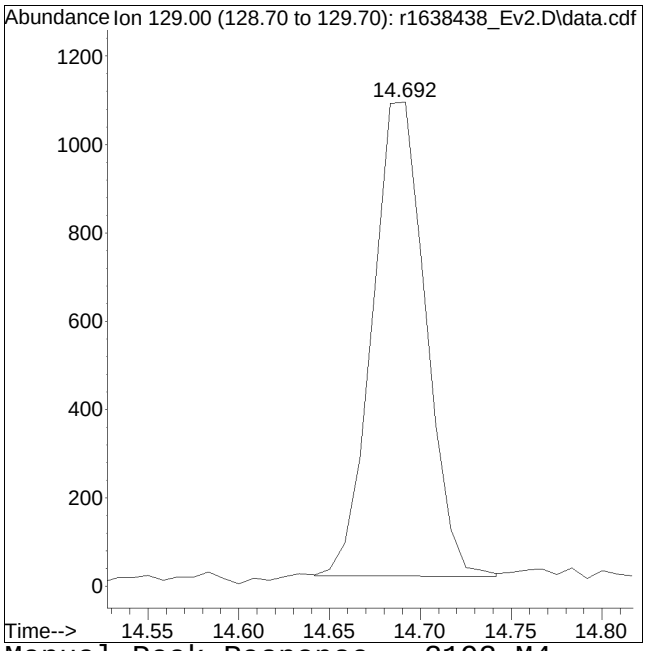
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638438_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 7/25/2023 10:00 pm

Compound #55: dibromochloromethane



Original Peak Response = 2338



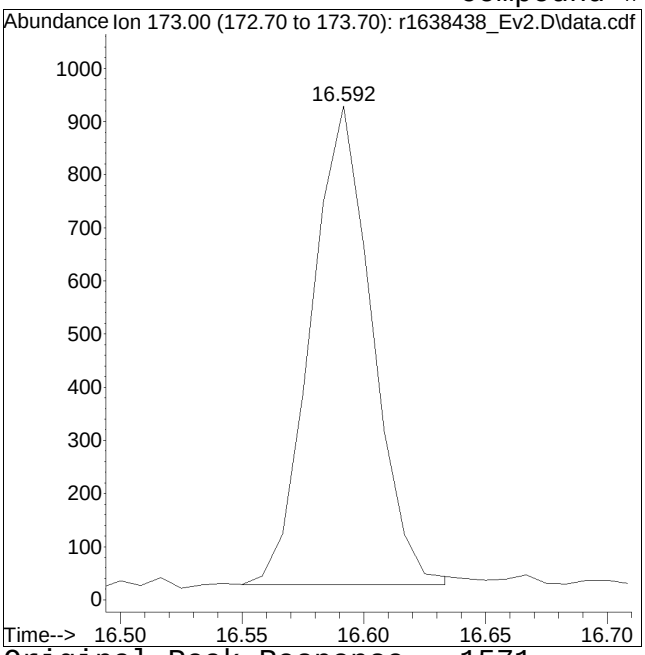
Manual Peak Response = 2193 M4

M4 = Poor automated baseline construction.

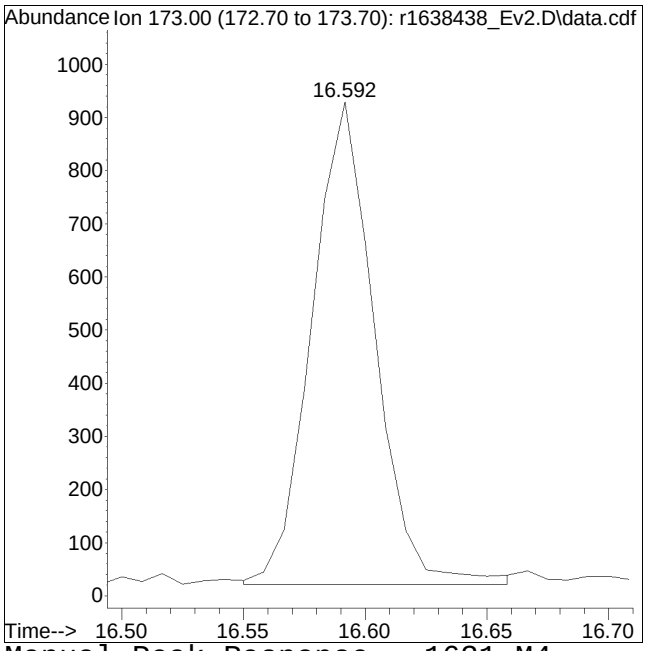
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638438_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 7/25/2023 10:00 pm

Compound #62: bromoform



Original Peak Response = 1571



Manual Peak Response = 1631 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638439_Ev2.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.5
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:39 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.083	49	122582	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 98.54%			
33) 1,4-difluorobenzene	11.300	114	432914	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 98.47%			
51) chlorobenzene-D5	15.975	54	49815	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 99.64%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.950	65	103281	10.224	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.24%			
53) toluene-D8	14.133	98	397814	9.981	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.81%			
67) bromofluorobenzene	17.333	95	245096	9.774	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.74%			
Target Compounds						Qvalue
2) propylene	3.946	41	3729M6	0.566	ppbV	
3) dichlorodifluoromethane	4.024	85	5647	0.529	ppbV	99
4) chloromethane	4.186	50	2982	0.532	ppbV	98
5) Freon-114	4.294	85	6409	0.522	ppbV	98
6) vinyl chloride	4.414	62	2970	0.517	ppbV	96
7) 1,3-butadiene	4.558	54	2206	0.509	ppbV	97
8) bromomethane	4.840	94	2824	0.523	ppbV	99
9) chloroethane	5.026	64	1421	0.523	ppbV	97
10) ethanol	5.146	31	8701	3.283	ppbV	100
11) vinyl bromide	5.407	106	2901	0.512	ppbV	98
12) acrolein	5.530	56	1194	0.534	ppbV #	82
13) acetone	5.670	43	18884	2.620	ppbV #	98
14) trichlorofluoromethane	5.863	101	4102	0.532	ppbV	99
15) isopropyl alcohol	5.940	45	12711	1.270	ppbV	98
16) acrylonitrile	6.177	53	2470	0.491	ppbV	98
17) 1,1-dichloroethene	6.558	61	4759	0.516	ppbV	99
18) tertiary butyl alcohol	6.600	59	4843	0.468	ppbV	93
19) methylene chloride	6.696	49	3897	0.553	ppbV	99
20) 3-chloropropene	6.822	41	5120	0.484	ppbV	98
21) carbon disulfide	7.002	76	8887	0.468	ppbV #	84
22) Freon 113	6.996	101	6664	0.521	ppbV	98
23) trans-1,2-dichloroethene	7.733	61	5030	0.500	ppbV	94
24) 1,1-dichloroethane	7.958	63	6348	0.509	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638439_Ev2.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.5
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:39 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	7266	0.494	ppbV		99
26) vinyl acetate	8.142	43	7550	0.476	ppbV		98
27) 2-butanone	8.400	43	8019	0.492	ppbV		98
28) cis-1,2-dichloroethene	8.900	61	4683	0.511	ppbV		99
29) Ethyl Acetate	9.167	61	1314	0.505	ppbV		94
30) chloroform	9.242	83	5704	0.518	ppbV		99
31) Tetrahydrofuran	9.683	42	4824	0.472	ppbV		99
32) 1,2-dichloroethane	10.067	62	3573	0.564	ppbV		97
34) hexane	9.150	57	5769	0.501	ppbV		73
36) 1,1,1-trichloroethane	10.358	97	4715	0.514	ppbV		96
37) benzene	10.887	78	11724	0.520	ppbV		100
38) carbon tetrachloride	11.053	117	4080	0.503	ppbV		99
39) cyclohexane	11.200	56	6018	0.501	ppbV		97
40) Dibromomethane	11.793	93	4024	0.519	ppbV	#	97
41) 1,2-dichloropropane	11.827	63	4614	0.512	ppbV		95
42) bromodichloromethane	12.053	83	4971	0.450	ppbV		98
43) 1,4-dioxane	12.100	88	2679	0.484	ppbV		97
44) trichloroethene	12.100	130	5607	0.519	ppbV		99
45) 2,2,4-trimethylpentane	12.147	57	18654M6	0.500	ppbV		
46) heptane	12.460	43	8211	0.491	ppbV		97
47) cis-1,3-dichloropropene	13.108	75	5205	0.475	ppbV		98
48) 4-methyl-2-pentanone	13.150	43	8972	0.457	ppbV		99
49) trans-1,3-dichloropropene	13.725	75	3912	0.456	ppbV		92
50) 1,1,2-trichloroethane	13.933	97	4981	0.517	ppbV		100
52) toluene	14.242	91	14804	0.507	ppbV		100
54) 2-hexanone	14.525	43	7750	0.423	ppbV		99
55) dibromochloromethane	14.692	129	5285	0.430	ppbV		99
56) 1,2-dibromoethane	14.933	107	6866	0.494	ppbV		99
57) tetrachloroethene	15.392	166	6081	0.520	ppbV		100
58) 1,1,1,2-tetrachloroethane	16.008	131	4575	0.469	ppbV		99
59) chlorobenzene	16.017	112	11855	0.510	ppbV		99
60) ethylbenzene	16.358	91	18489	0.497	ppbV		100
61) m+p-xylene	16.517	91	29626	1.000	ppbV		98
62) bromoform	16.592	173	3784	0.401	ppbV		98
63) styrene	16.842	104	11343	0.476	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.933	83	11192	0.507	ppbV		100
65) o-xylene	16.933	91	14886	0.495	ppbV		100
66) 1,2,3-Trichloropropane	17.050	75	7556	0.500	ppbV		98
68) isopropylbenzene	17.450	105	18699	0.499	ppbV		98
69) Bromobenzene	17.525	77	10079	0.504	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638439_Ev2.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.5
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:39 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

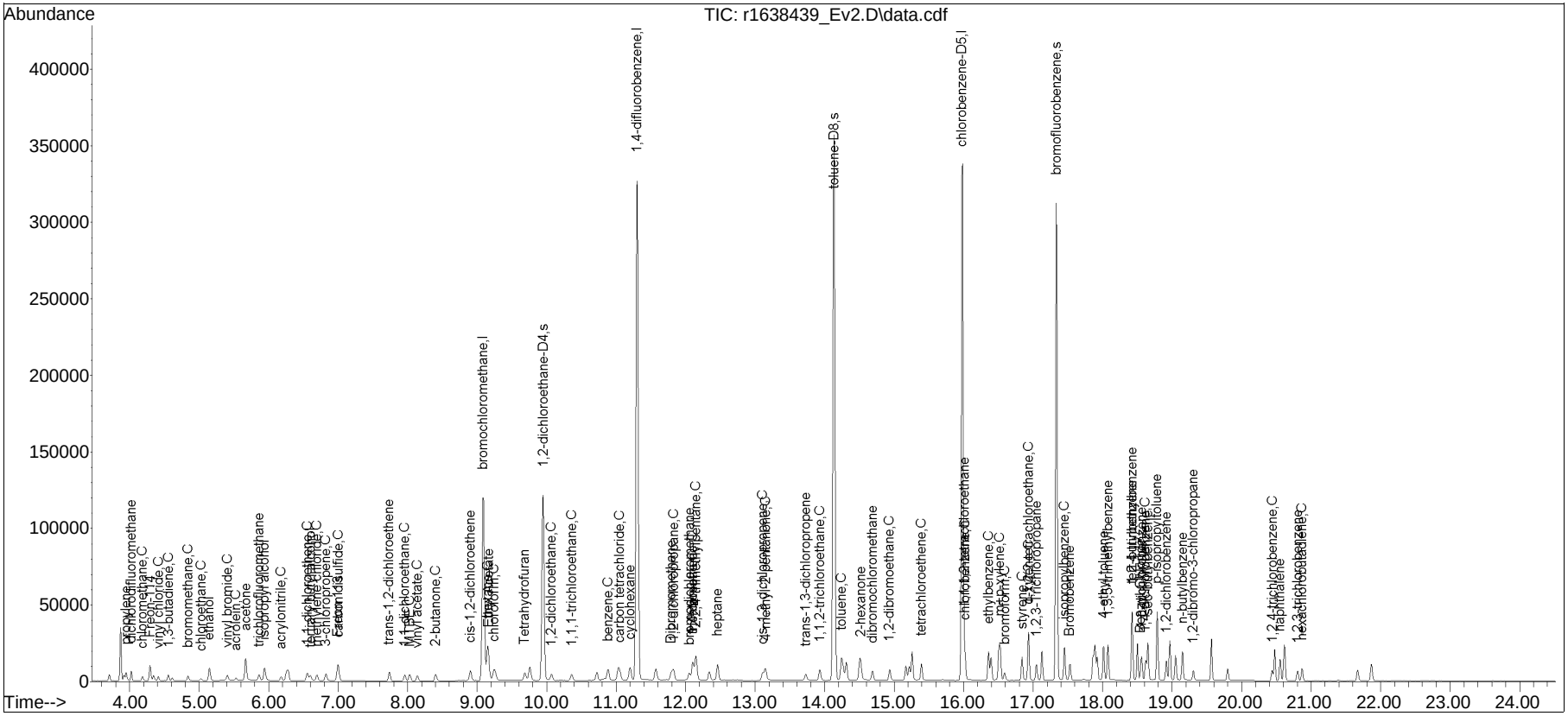
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	19363	0.482	ppbV	99
71) 1,3,5-trimethylbenzene	18.075	105	17288	0.508	ppbV	98
72) tert-butylbenzene	18.425	119	18028	0.489	ppbV	100
73) 1,2,4-trimethylbenzene	18.425	105	17088	0.493	ppbV	98
74) Benzyl Chloride	18.550	91	5819	0.342	ppbV	98
75) 1,3-dichlorobenzene	18.558	146	13098	0.494	ppbV	97
76) 1,4-dichlorobenzene	18.617	146	13048	0.499	ppbV	97
77) sec-butylbenzene	18.650	105	24791	0.503	ppbV	99
78) p-isopropyltoluene	18.783	119	22036	0.495	ppbV	99
79) 1,2-dichlorobenzene	18.917	146	12616	0.497	ppbV	98
80) n-butylbenzene	19.150	91	19060	0.483	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.300	75	3191	0.423	ppbV	89
82) 1,2,4-trichlorobenzene	20.442	180	7221	0.446	ppbV	99
83) naphthalene	20.550	128	22471	0.456	ppbV	98
84) 1,2,3-trichlorobenzene	20.808	180	6944	0.474	ppbV	97
85) hexachlorobutadiene	20.867	225	6297	0.519	ppbV	94

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638439_Ev2.D
Acq On : 25 Jul 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD0.5
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

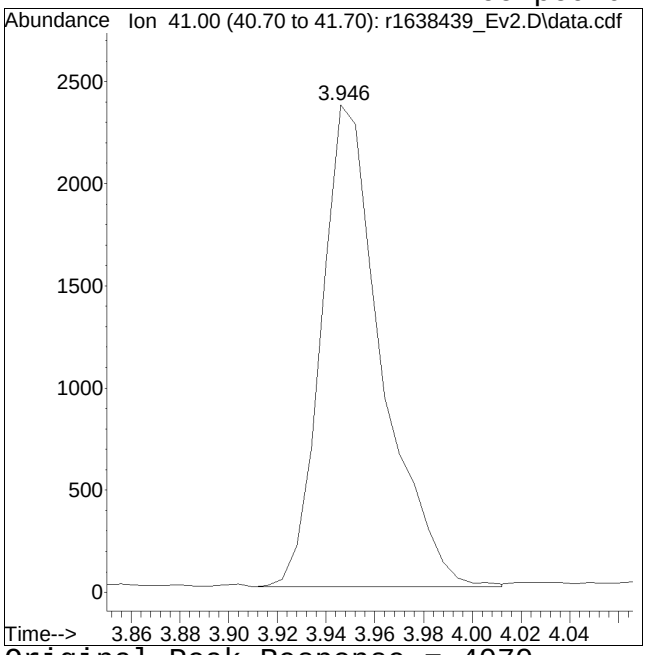
Quant Time: Jul 25 22:00:39 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



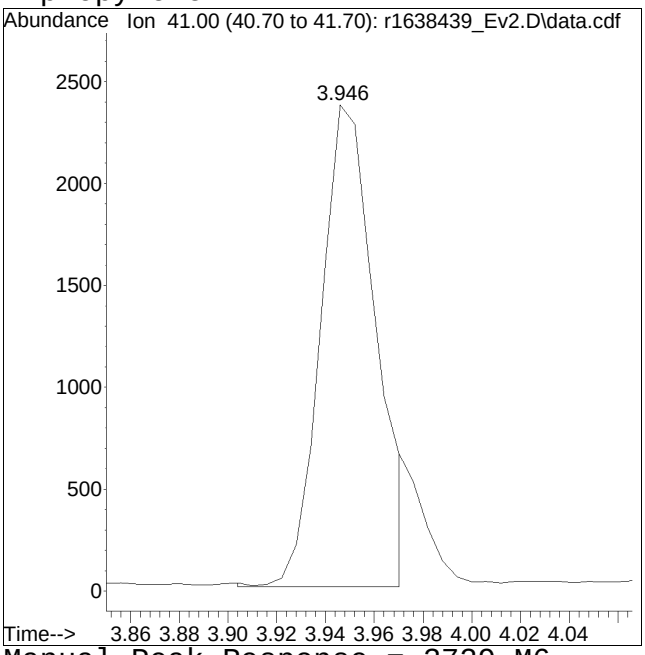
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638439_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 4070



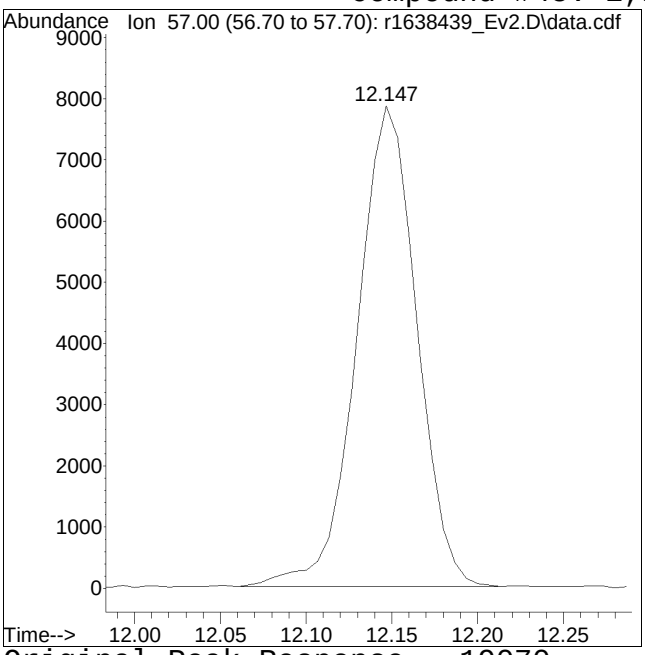
Manual Peak Response = 3729 M6

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

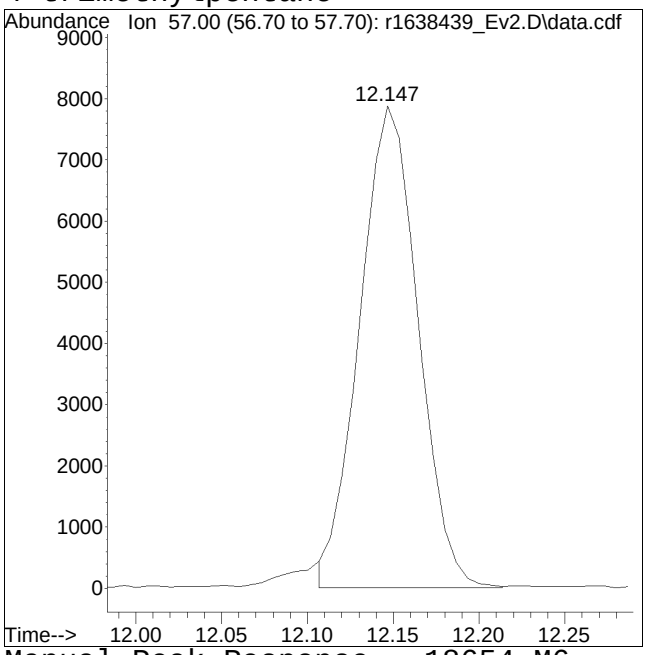
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638439_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:9: 0 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 7/25/2023 10:00 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 19070



Manual Peak Response = 18654 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638440_Ev2.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD1.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	124316	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 99.94%			
33) 1,4-difluorobenzene	11.307	114	441478	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 100.42%			
51) chlorobenzene-D5	15.975	54	50640	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 101.29%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.950	65	101077	9.811	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.11%			
53) toluene-D8	14.133	98	394227	9.730	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.30%			
67) bromofluorobenzene	17.333	95	254609	9.988	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.88%			
Target Compounds						Qvalue
2) propylene	3.952	41	7105M6	1.063	ppbV	
3) dichlorodifluoromethane	4.024	85	10851	1.003	ppbV	99
4) chloromethane	4.186	50	5786	1.017	ppbV	99
5) Freon-114	4.294	85	12488	1.004	ppbV	99
6) vinyl chloride	4.414	62	5849	1.004	ppbV	98
7) 1,3-butadiene	4.558	54	4238	0.964	ppbV	97
8) bromomethane	4.840	94	5427	0.991	ppbV	99
9) chloroethane	5.026	64	2822	1.025	ppbV	97
10) ethanol	5.146	31	17369	6.461	ppbV	100
11) vinyl bromide	5.407	106	5510	0.960	ppbV	97
12) acrolein	5.530	56	2213	0.976	ppbV #	91
13) acetone	5.667	43	36946	5.055	ppbV	98
14) trichlorofluoromethane	5.867	101	7824	1.000	ppbV	99
15) isopropyl alcohol	5.940	45	24757	2.438	ppbV	100
16) acrylonitrile	6.183	53	4721	0.924	ppbV	99
17) 1,1-dichloroethene	6.558	61	9329	0.997	ppbV	100
18) tertiary butyl alcohol	6.600	59	9824	0.937	ppbV	97
19) methylene chloride	6.696	49	7358	1.030	ppbV	99
20) 3-chloropropene	6.828	41	10042	0.937	ppbV	99
21) carbon disulfide	7.002	76	17576	0.912	ppbV #	92
22) Freon 113	6.996	101	12973	1.000	ppbV	100
23) trans-1,2-dichloroethene	7.742	61	9753	0.956	ppbV	99
24) 1,1-dichloroethane	7.958	63	12540	0.992	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638440_Ev2.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD1.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	14148	0.948	ppbV		100
26) vinyl acetate	8.142	43	14681	0.913	ppbV		100
27) 2-butanone	8.400	43	15799	0.956	ppbV		98
28) cis-1,2-dichloroethene	8.908	61	9252	0.995	ppbV		100
29) Ethyl Acetate	9.167	61	2477	0.938	ppbV		93
30) chloroform	9.242	83	11231	1.005	ppbV		99
31) Tetrahydrofuran	9.683	42	9756	0.942	ppbV		99
32) 1,2-dichloroethane	10.075	62	6595	1.026	ppbV		99
34) hexane	9.158	57	11277	0.961	ppbV		93
36) 1,1,1-trichloroethane	10.367	97	9144	0.977	ppbV		98
37) benzene	10.887	78	22782	0.991	ppbV		99
38) carbon tetrachloride	11.060	117	8148	0.986	ppbV		99
39) cyclohexane	11.200	56	11665	0.951	ppbV		99
40) Dibromomethane	11.793	93	7732	0.978	ppbV	#	98
41) 1,2-dichloropropane	11.827	63	9079	0.988	ppbV		97
42) bromodichloromethane	12.053	83	10221	0.907	ppbV		99
43) 1,4-dioxane	12.093	88	5279	0.935	ppbV		97
44) trichloroethene	12.107	130	10924	0.992	ppbV		99
45) 2,2,4-trimethylpentane	12.147	57	36716M6	0.965	ppbV		
46) heptane	12.460	43	16157	0.948	ppbV		100
47) cis-1,3-dichloropropene	13.108	75	10404	0.931	ppbV		98
48) 4-methyl-2-pentanone	13.142	43	18297	0.915	ppbV		98
49) trans-1,3-dichloropropene	13.725	75	8062	0.922	ppbV		95
50) 1,1,2-trichloroethane	13.933	97	9756	0.993	ppbV		99
52) toluene	14.242	91	29241	0.985	ppbV		99
54) 2-hexanone	14.517	43	15908	0.854	ppbV		99
55) dibromochloromethane	14.692	129	10826	0.866	ppbV		99
56) 1,2-dibromoethane	14.933	107	13596	0.961	ppbV		99
57) tetrachloroethene	15.392	166	12039	1.012	ppbV		99
58) 1,1,1,2-tetrachloroethane	16.008	131	9193	0.927	ppbV		99
59) chlorobenzene	16.017	112	23165	0.981	ppbV		100
60) ethylbenzene	16.358	91	36410	0.963	ppbV		99
61) m+p-xylene	16.517	91	58743	1.950	ppbV		99
62) bromoform	16.592	173	7870	0.820	ppbV		99
63) styrene	16.842	104	22934	0.947	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.933	83	22411	1.000	ppbV		100
65) o-xylene	16.933	91	29539	0.966	ppbV		99
66) 1,2,3-Trichloropropane	17.050	75	15082	0.983	ppbV		99
68) isopropylbenzene	17.450	105	37377	0.981	ppbV		98
69) Bromobenzene	17.525	77	19989	0.983	ppbV		99

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638440_Ev2.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD1.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

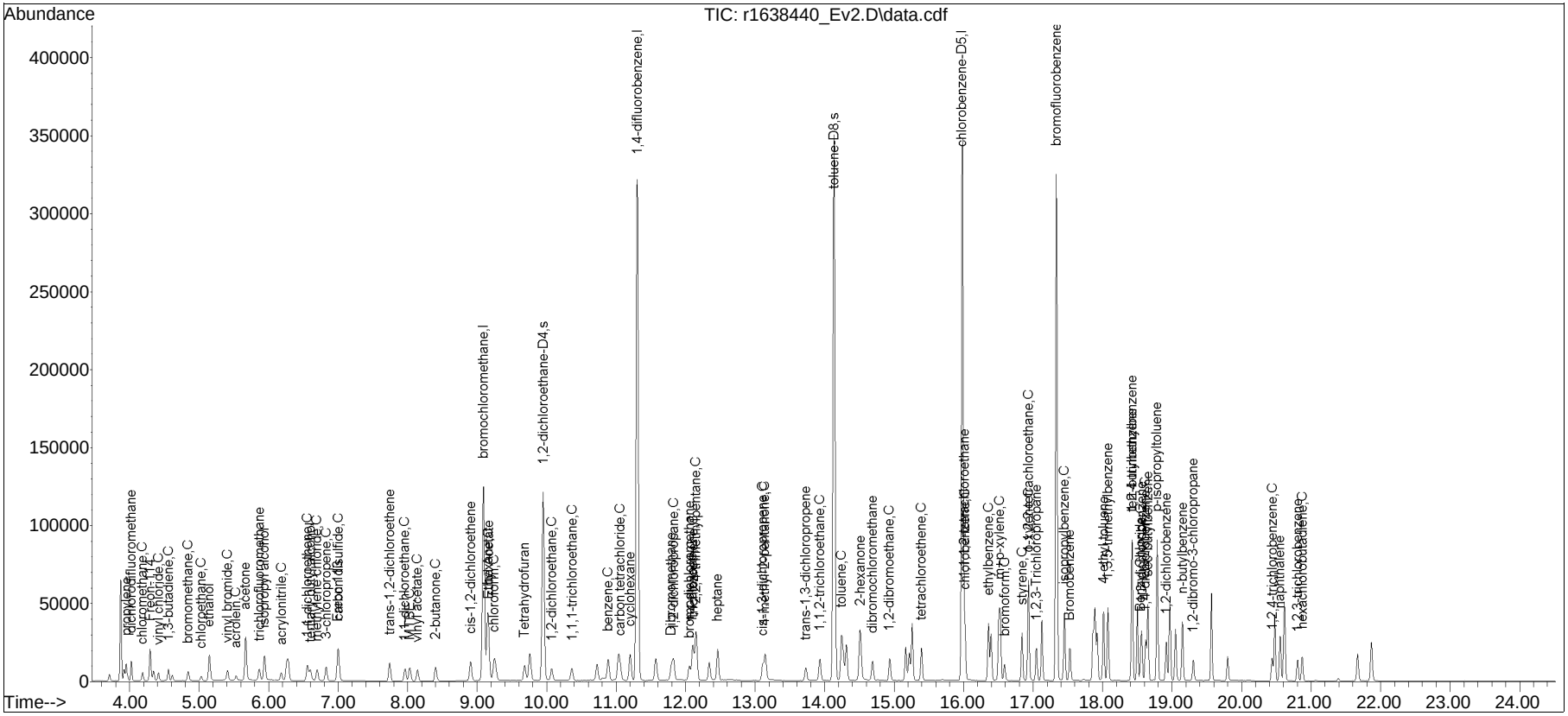
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	38602	0.945	ppbV	99
71) 1,3,5-trimethylbenzene	18.075	105	34037	0.985	ppbV	98
72) tert-butylbenzene	18.425	119	36351	0.970	ppbV	100
73) 1,2,4-trimethylbenzene	18.425	105	34158	0.970	ppbV	98
74) Benzyl Chloride	18.550	91	12613	0.728	ppbV	96
75) 1,3-dichlorobenzene	18.558	146	26324	0.976	ppbV	97
76) 1,4-dichlorobenzene	18.617	146	25810	0.972	ppbV	98
77) sec-butylbenzene	18.650	105	49280	0.984	ppbV	99
78) p-isopropyltoluene	18.783	119	44122	0.976	ppbV	100
79) 1,2-dichlorobenzene	18.917	146	25251	0.978	ppbV	97
80) n-butylbenzene	19.150	91	38531	0.960	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.300	75	6708	0.875	ppbV	94
82) 1,2,4-trichlorobenzene	20.442	180	15166	0.922	ppbV	99
83) naphthalene	20.550	128	46637	0.931	ppbV	99
84) 1,2,3-trichlorobenzene	20.808	180	14257	0.957	ppbV	98
85) hexachlorobutadiene	20.875	225	12328	1.000	ppbV	98

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

Sub List : Default-ICV-AP2 - All compounds listed5SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638440_Ev2.D
Acq On : 25 Jul 2023 10:31 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD1.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

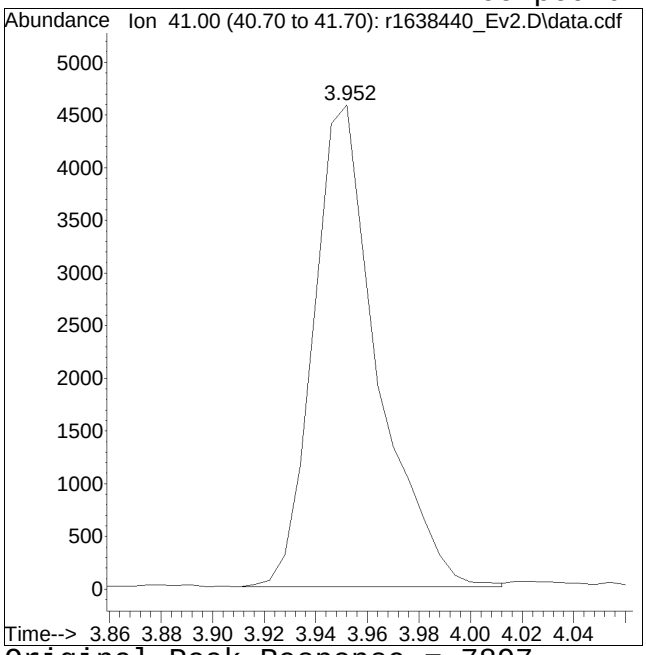
Quant Time: Jul 25 22:00:45 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



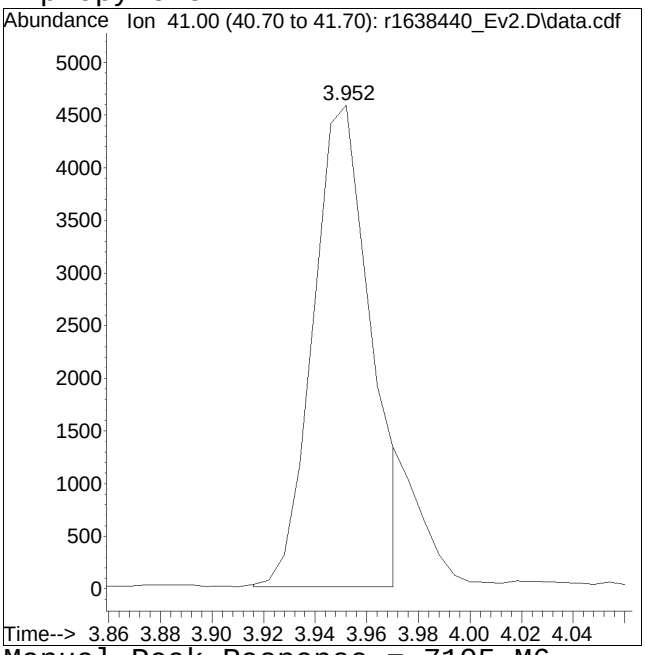
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638440_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 7897



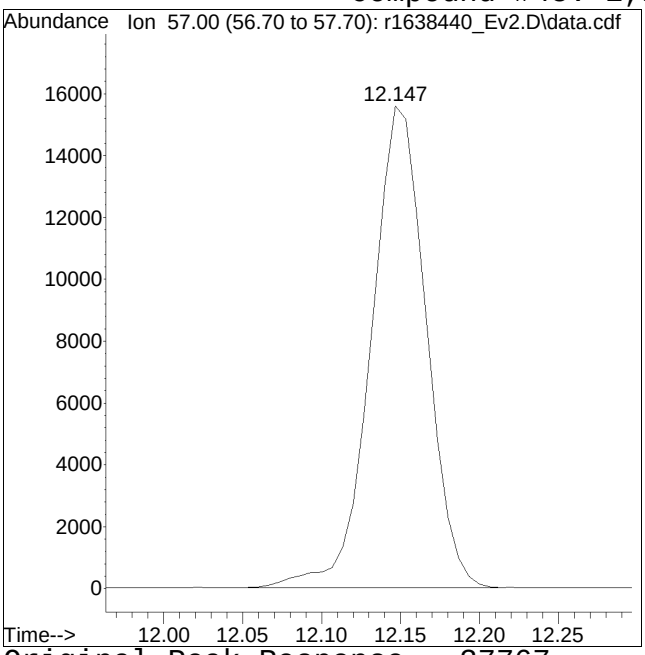
Manual Peak Response = 7105 M6

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

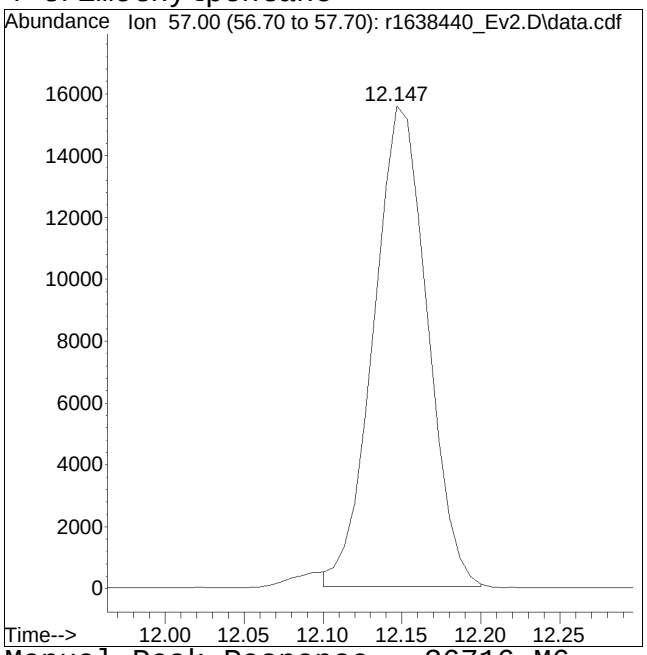
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638440_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:0: 1 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 7/25/2023 10:00 pm

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 37767



Manual Peak Response = 36716 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638441_Ev2.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:56:40 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 15:22:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	124394	10.000	ppbV	-0.05
Standard Area = 124394			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.307	114	439642	10.000	ppbV	-0.05
Standard Area = 439642			Recovery = 100.00%			
51) chlorobenzene-D5	15.975	54	49994	10.000	ppbV	-0.04
Standard Area = 49994			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.950	65	102592	8.564	ppbV	-0.05
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.64%			
53) toluene-D8	14.133	98	400010	10.982	ppbV	-0.04
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.82%			
67) bromofluorobenzene	17.333	95	251652	11.089	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 110.89%			
Target Compounds						Qvalue
2) propylene	3.946	41	33455M6	6.074	ppbV	
3) dichlorodifluoromethane	4.024	85	54149	4.497	ppbV	99
4) chloromethane	4.186	50	28459	4.540	ppbV	98
5) Freon-114	4.294	85	62238	3.847	ppbV	91
6) vinyl chloride	4.414	62	29151	5.011	ppbV	98
7) 1,3-butadiene	4.558	54	21998	4.011	ppbV #	72
8) bromomethane	4.840	94	27409	4.725	ppbV	99
9) chloroethane	5.026	64	13781	4.940	ppbV	90
10) ethanol	5.146	31	67247M3	16.558	ppbV	
11) vinyl bromide	5.410	106	28727	4.659	ppbV	97
12) acrolein	5.530	56	11348	3.889	ppbV	92
13) acetone	5.663	43	182843	19.475	ppbV #	87
14) trichlorofluoromethane	5.863	101	39127	3.357	ppbV	99
15) isopropyl alcohol	5.937	45	126989	12.313	ppbV	98
16) acrylonitrile	6.180	53	25550	5.381	ppbV	94
17) 1,1-dichloroethene	6.558	61	46832	5.497	ppbV	98
18) tertiary butyl alcohol	6.594	59	52478	6.327	ppbV	89
19) methylene chloride	6.696	49	35724	4.770	ppbV	83
20) 3-chloropropene	6.828	41	53630	5.837	ppbV	96
21) carbon disulfide	7.002	76	96452	5.107	ppbV	97
22) Freon 113	6.996	101	64878	5.115	ppbV	95
23) trans-1,2-dichloroethene	7.742	61	51043	5.829	ppbV	96
24) 1,1-dichloroethane	7.958	63	63247	5.710	ppbV	98

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638441_Ev2.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:56:40 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 15:22:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.025	73	74631	4.974	ppbV		94
26) vinyl acetate	8.142	43	80492	5.689	ppbV	#	96
27) 2-butanone	8.392	43	82690	5.272	ppbV		98
28) cis-1,2-dichloroethene	8.908	61	46539	5.593	ppbV		97
29) Ethyl Acetate	9.167	61	13207	6.638	ppbV	#	45
30) chloroform	9.242	83	55901	4.922	ppbV		97
31) Tetrahydrofuran	9.675	42	51811	5.848	ppbV		98
32) 1,2-dichloroethane	10.075	62	32145	4.526	ppbV		97
34) hexane	9.158	57	58432	5.172	ppbV		83
36) 1,1,1-trichloroethane	10.367	97	46615	4.200	ppbV		97
37) benzene	10.887	78	114452	4.837	ppbV		98
38) carbon tetrachloride	11.060	117	41152	4.263	ppbV		99
39) cyclohexane	11.200	56	61045	5.154	ppbV		97
40) Dibromomethane	11.793	93	39365	4.596	ppbV	#	94
41) 1,2-dichloropropane	11.827	63	45742	5.238	ppbV		95
42) bromodichloromethane	12.053	83	56103	4.316	ppbV		99
43) 1,4-dioxane	12.087	88	28100	4.902	ppbV		96
44) trichloroethene	12.107	130	54831	4.699	ppbV		99
45) 2,2,4-trimethylpentane	12.147	57	189530	5.158	ppbV		94
46) heptane	12.460	43	84904	4.708	ppbV		94
47) cis-1,3-dichloropropene	13.108	75	55672	5.043	ppbV		98
48) 4-methyl-2-pentanone	13.142	43	99589	4.874	ppbV	#	90
49) trans-1,3-dichloropropene	13.733	75	43555	4.627	ppbV		97
50) 1,1,2-trichloroethane	13.933	97	48895	5.053	ppbV		98
52) toluene	14.242	91	146499	5.751	ppbV		100
54) 2-hexanone	14.517	43	91931	5.319	ppbV		89
55) dibromochloromethane	14.692	129	61680	5.088	ppbV		99
56) 1,2-dibromoethane	14.933	107	69814	5.460	ppbV		97
57) tetrachloroethene	15.392	166	58706	5.442	ppbV		96
58) 1,1,1,2-tetrachloroethane	16.008	131	48958	4.948	ppbV		99
59) chlorobenzene	16.017	112	116530	5.510	ppbV		99
60) ethylbenzene	16.358	91	186661	5.796	ppbV		100
61) m+p-xylene	16.517	91	297329	11.506	ppbV		99
62) bromoform	16.592	173	47354	5.414	ppbV		99
63) styrene	16.842	104	119510	5.724	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.933	83	110679	5.799	ppbV		100
65) o-xylene	16.933	91	150900	5.686	ppbV		98
66) 1,2,3-Trichloropropane	17.042	75	75764	5.202	ppbV		100
68) isopropylbenzene	17.450	105	188044	5.065	ppbV		93
69) Bromobenzene	17.525	77	100358	5.494	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638441_Ev2.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 21:56:40 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 15:22:09 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

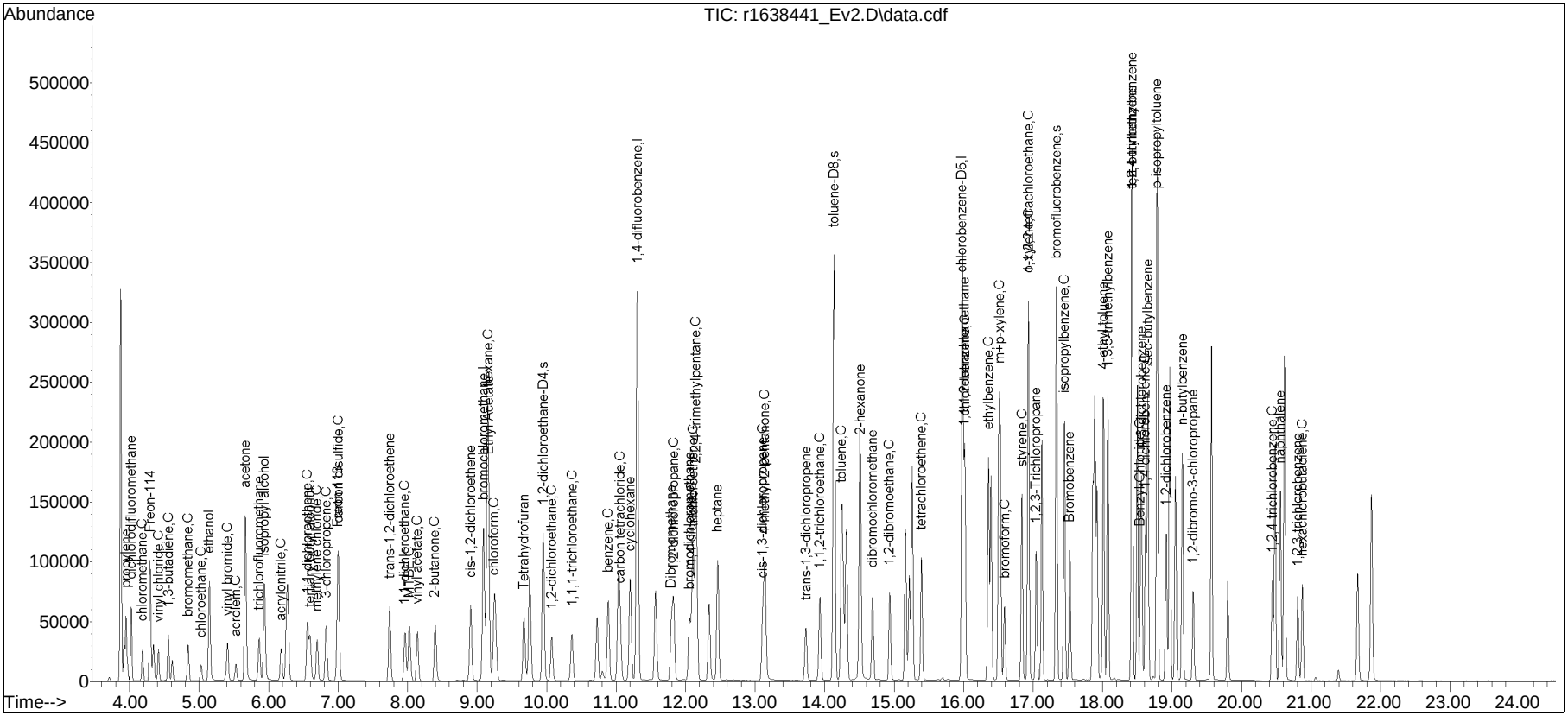
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.008	105	201674	5.503	ppbV	95
71) 1,3,5-trimethylbenzene	18.075	105	170613	5.518	ppbV	93
72) tert-butylbenzene	18.425	119	185071	5.301	ppbV	97
73) 1,2,4-trimethylbenzene	18.425	105	173902	5.810	ppbV	97
74) Benzyl Chloride	18.542	91	85490	5.550	ppbV	98
75) 1,3-dichlorobenzene	18.558	146	133169M3	5.813	ppbV	
76) 1,4-dichlorobenzene	18.617	146	131111	5.868	ppbV	98
77) sec-butylbenzene	18.650	105	247175	5.118	ppbV	98
78) p-isopropyltoluene	18.783	119	223188	5.236	ppbV	97
79) 1,2-dichlorobenzene	18.917	146	127462	5.802	ppbV	99
80) n-butylbenzene	19.150	91	198084	5.289	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.300	75	37857	5.598	ppbV	90
82) 1,2,4-trichlorobenzene	20.442	180	81204	6.251	ppbV	98
83) naphthalene	20.558	128	247145	5.748	ppbV	98
84) 1,2,3-trichlorobenzene	20.808	180	73547	5.552	ppbV	97
85) hexachlorobutadiene	20.875	225	60833	5.305	ppbV	98

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638441_Ev2.D
Acq On : 25 Jul 2023 11:10 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

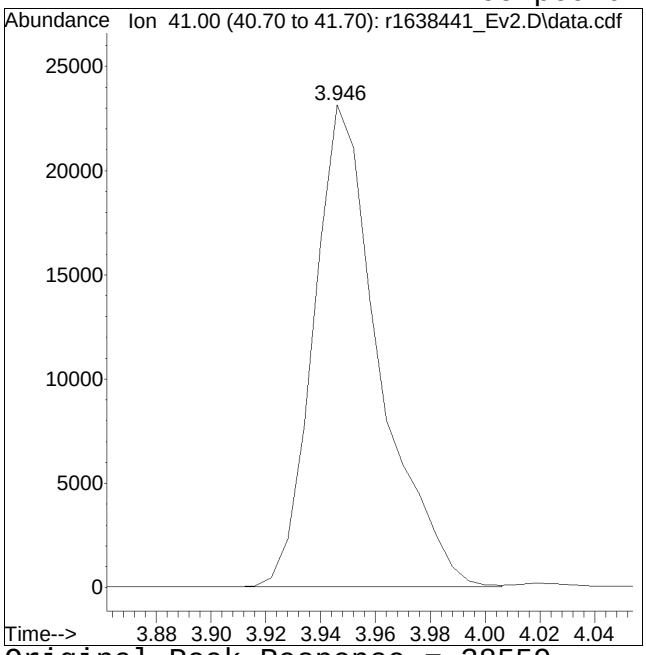
Quant Time: Jul 25 21:56:40 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu May 04 15:22:09 2023
Response via : Initial Calibration



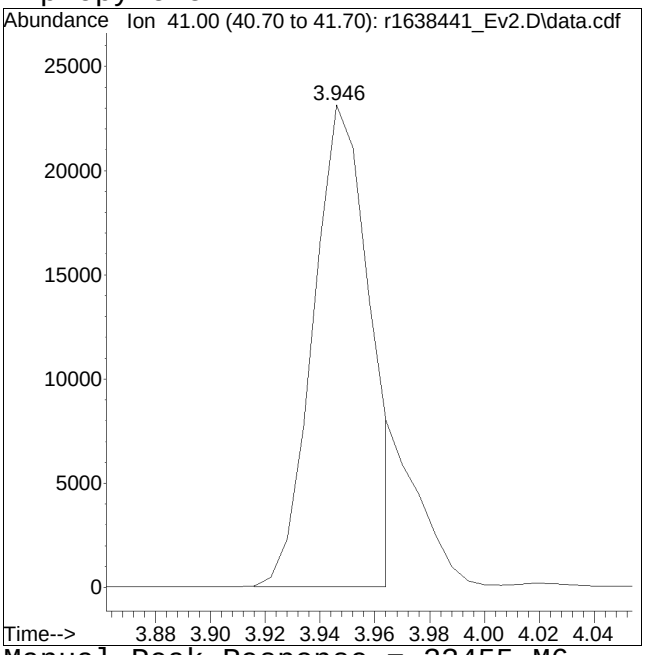
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638441_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 0 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 7/25/2023 9:56 pm

Compound #2: propylene



Original Peak Response = 38559



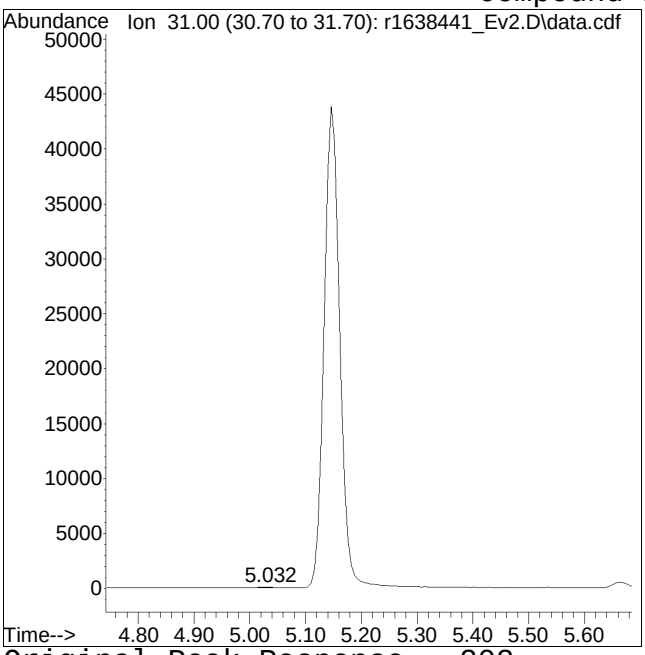
Manual Peak Response = 33455 M6

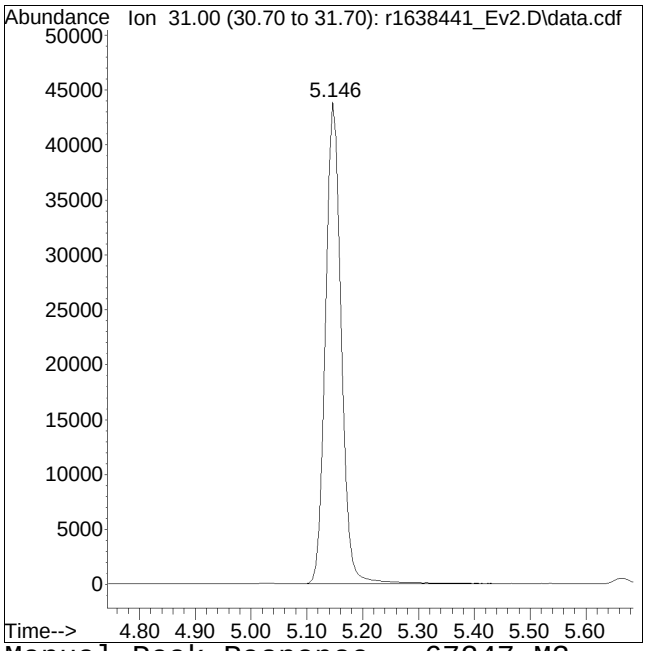
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638441_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 0 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 7/25/2023 9:56 pm

Compound #10: ethanol





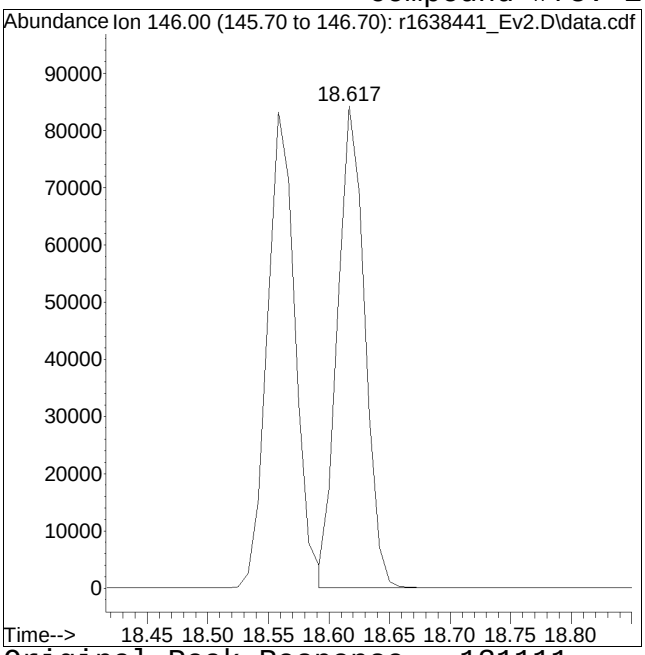
Original Peak Response = 202 Manual Peak Response = 67247 M3

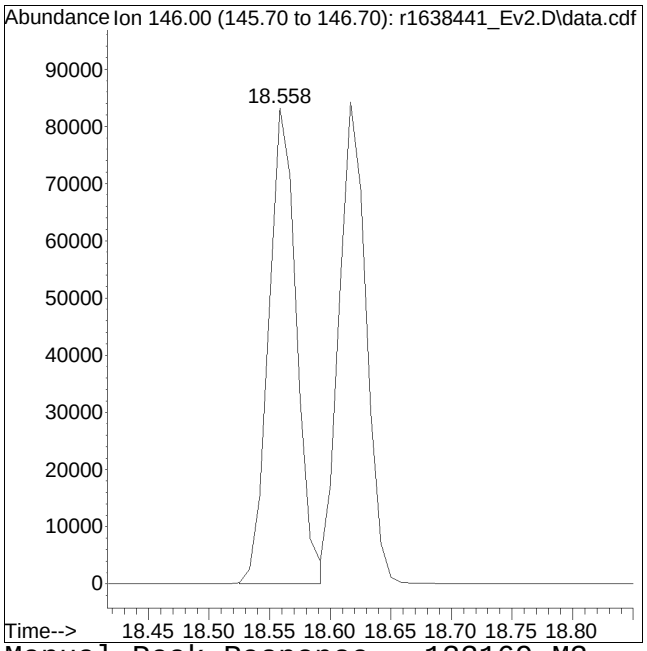
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638441_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 0 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 7/25/2023 9:56 pm

Compound #75: 1,3-dichlorobenzene





Original Peak Response = 131111 Manual Peak Response = 133169 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638442_Ev2.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD010
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	125995	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 101.29%			
33) 1,4-difluorobenzene	11.307	114	442650	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 100.68%			
51) chlorobenzene-D5	15.983	54	49502	10.000	ppbV	0.00
Standard Area = 49994			Recovery = 99.02%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.958	65	101936	9.869	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%			
53) toluene-D8	14.133	98	402911	10.173	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.73%			
67) bromofluorobenzene	17.333	95	251577	10.096	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.96%			
Target Compounds						Qvalue
2) propylene	3.952	41	62343M6	9.199	ppbV	
3) dichlorodifluoromethane	4.030	85	93576	8.531	ppbV	99
4) chloromethane	4.192	50	53391	9.261	ppbV	100
5) Freon-114	4.300	85	114748	9.101	ppbV	98
6) vinyl chloride	4.420	62	54298	9.195	ppbV	100
7) 1,3-butadiene	4.564	54	42039	9.434	ppbV	98
8) bromomethane	4.846	94	51746	9.320	ppbV	100
9) chloroethane	5.038	64	26332	9.432	ppbV	99
10) ethanol	5.152	31	172899	63.461	ppbV	98
11) vinyl bromide	5.417	106	55324	9.507	ppbV	98
12) acrolein	5.533	56	22353	9.724	ppbV	98
13) acetone	5.670	43	352176	47.541	ppbV	99
14) trichlorofluoromethane	5.873	101	75844	9.569	ppbV	99
15) isopropyl alcohol	5.943	45	248838	24.183	ppbV	100
16) acrylonitrile	6.187	53	50863	9.827	ppbV	99
17) 1,1-dichloroethene	6.564	61	91199	9.613	ppbV	99
18) tertiary butyl alcohol	6.600	59	104768	9.855	ppbV	99
19) methylene chloride	6.702	49	70431	9.732	ppbV	97
20) 3-chloropropene	6.834	41	107251	9.872	ppbV	99
21) carbon disulfide	7.008	76	197455	10.106	ppbV	99
22) Freon 113	7.002	101	127338	9.689	ppbV	99
23) trans-1,2-dichloroethene	7.742	61	100186	9.689	ppbV	93
24) 1,1-dichloroethane	7.967	63	124095	9.686	ppbV	100

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638442_Ev2.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD010
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	148365	9.814	ppbV		98
26) vinyl acetate	8.142	43	163455	10.024	ppbV		98
27) 2-butanone	8.400	43	164782	9.837	ppbV		98
28) cis-1,2-dichloroethene	8.908	61	91153	9.669	ppbV		97
29) Ethyl Acetate	9.167	61	26063	9.742	ppbV		74
30) chloroform	9.250	83	109055	9.630	ppbV		99
31) Tetrahydrofuran	9.675	42	104405	9.948	ppbV		99
32) 1,2-dichloroethane	10.075	62	61765	9.485	ppbV		99
34) hexane	9.158	57	113736	9.666	ppbV		99
36) 1,1,1-trichloroethane	10.367	97	92402	9.844	ppbV		99
37) benzene	10.893	78	225630	9.790	ppbV		98
38) carbon tetrachloride	11.060	117	82913	10.006	ppbV		100
39) cyclohexane	11.207	56	119213	9.698	ppbV		99
40) Dibromomethane	11.800	93	77448	9.770	ppbV	#	99
41) 1,2-dichloropropane	11.827	63	90422	9.817	ppbV		99
42) bromodichloromethane	12.053	83	112226	9.934	ppbV		99
43) 1,4-dioxane	12.087	88	56238	9.939	ppbV		98
44) trichloroethene	12.107	130	108357	9.814	ppbV		98
45) 2,2,4-trimethylpentane	12.153	57	370126	9.698	ppbV		100
46) heptane	12.467	43	168447	9.852	ppbV		99
47) cis-1,3-dichloropropene	13.108	75	111965	9.987	ppbV		100
48) 4-methyl-2-pentanone	13.142	43	199197	9.933	ppbV		99
49) trans-1,3-dichloropropene	13.733	75	89103	10.159	ppbV		100
50) 1,1,2-trichloroethane	13.933	97	97219	9.874	ppbV		99
52) toluene	14.250	91	288823	9.955	ppbV		99
54) 2-hexanone	14.517	43	186466	10.242	ppbV		99
55) dibromochloromethane	14.692	129	126514	10.358	ppbV		100
56) 1,2-dibromoethane	14.942	107	138760	10.037	ppbV		99
57) tetrachloroethene	15.400	166	115490	9.934	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	98439	10.153	ppbV		98
59) chlorobenzene	16.025	112	227494	9.858	ppbV		96
60) ethylbenzene	16.358	91	367383	9.939	ppbV		100
61) m+p-xylene	16.517	91	581961	19.768	ppbV		99
62) bromoform	16.592	173	100319	10.698	ppbV		99
63) styrene	16.842	104	237858	10.050	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.933	83	214035	9.765	ppbV		100
65) o-xylene	16.933	91	293845	9.833	ppbV		99
66) 1,2,3-Trichloropropane	17.050	75	148262	9.882	ppbV		100
68) isopropylbenzene	17.450	105	368414	9.893	ppbV		100
69) Bromobenzene	17.525	77	195438	9.834	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638442_Ev2.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD010
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

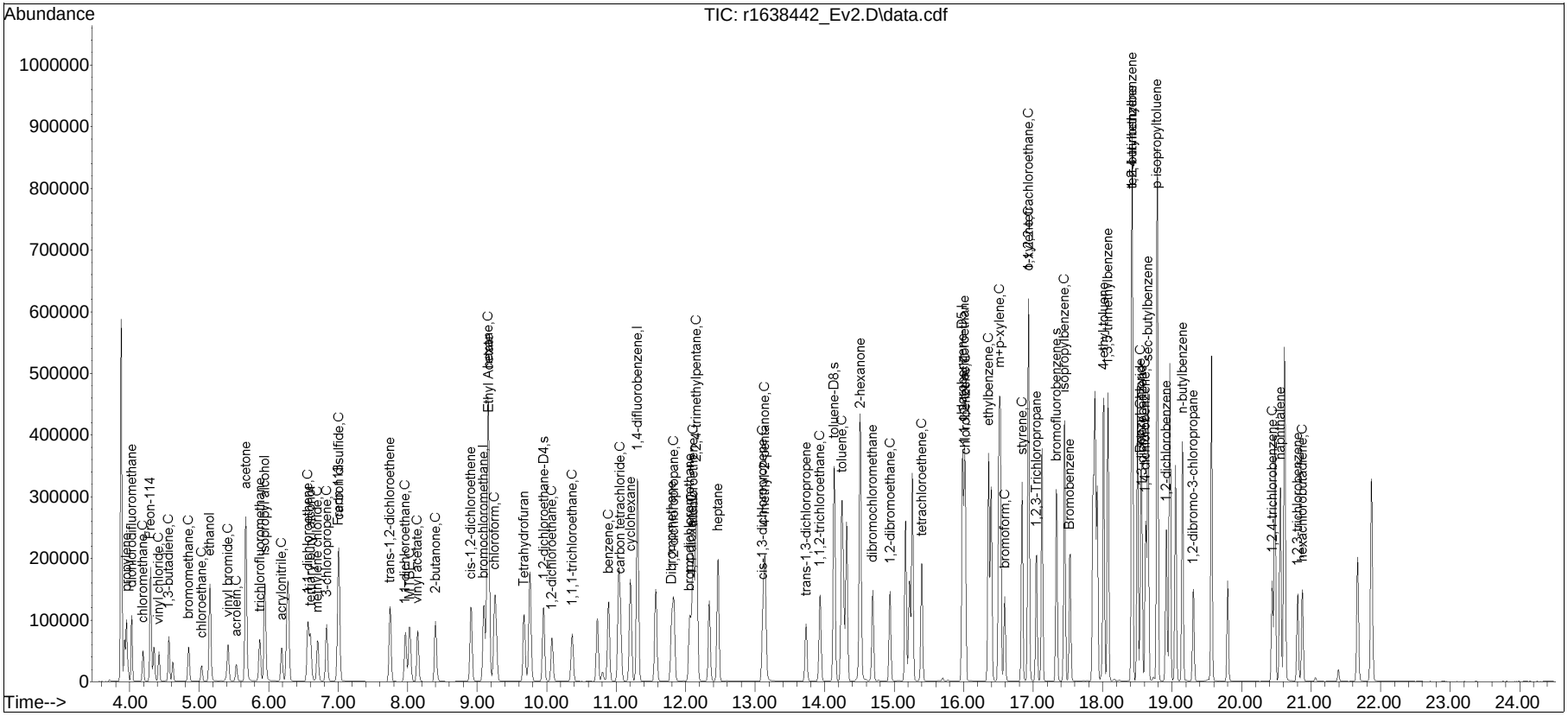
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	399807	10.011	ppbV	98
71) 1,3,5-trimethylbenzene	18.075	105	336134	9.949	ppbV	99
72) tert-butylbenzene	18.425	119	358402	9.779	ppbV	98
73) 1,2,4-trimethylbenzene	18.425	105	339915	9.870	ppbV	99
74) Benzyl Chloride	18.550	91	198494	11.725	ppbV	95
75) 1,3-dichlorobenzene	18.567	146	262382	9.949	ppbV	94
76) 1,4-dichlorobenzene	18.617	146	258783	9.967	ppbV	98
77) sec-butylbenzene	18.650	105	483077	9.869	ppbV	100
78) p-isopropyltoluene	18.783	119	434277	9.826	ppbV	98
79) 1,2-dichlorobenzene	18.917	146	251334	9.957	ppbV	99
80) n-butylbenzene	19.150	91	394695	10.062	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.300	75	76329	10.181	ppbV	97
82) 1,2,4-trichlorobenzene	20.442	180	167119	10.392	ppbV	98
83) naphthalene	20.558	128	496768	10.150	ppbV	100
84) 1,2,3-trichlorobenzene	20.808	180	149158	10.241	ppbV	98
85) hexachlorobutadiene	20.875	225	117166	9.726	ppbV	98

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638442_Ev2.D
Acq On : 25 Jul 2023 11:52 AM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD010
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

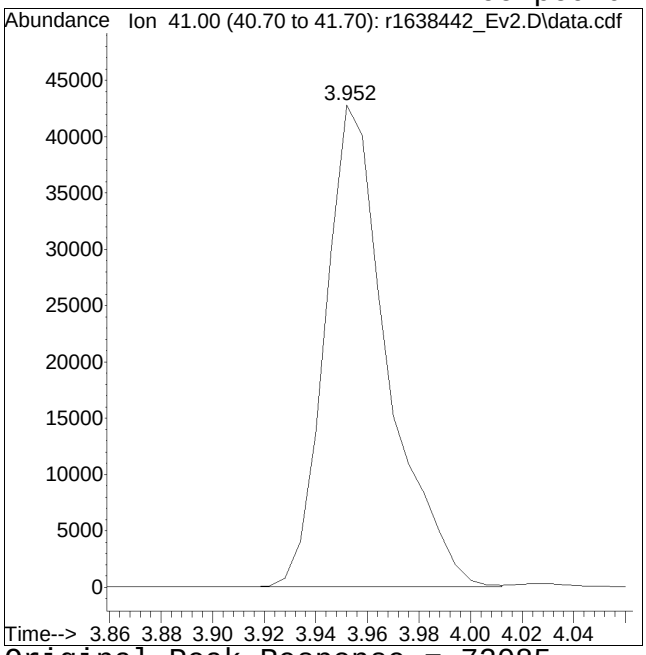
Quant Time: Jul 25 22:00:50 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



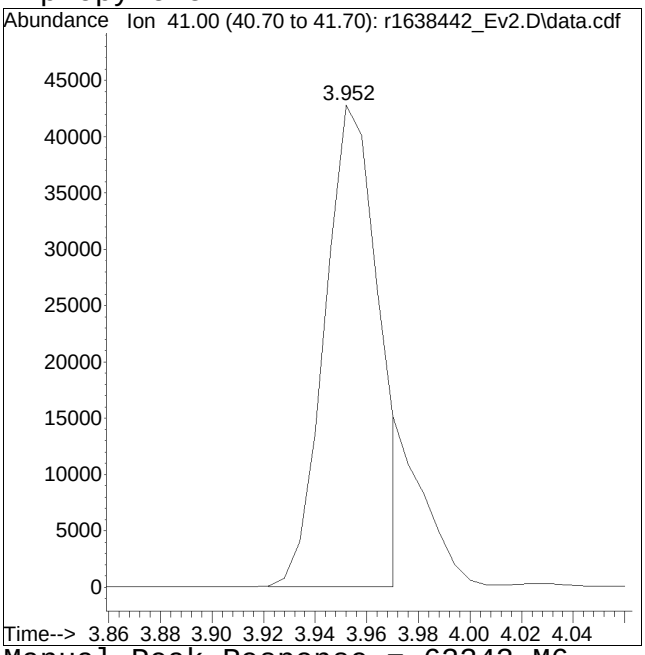
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638442_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 2 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 72085



Manual Peak Response = 62343 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638443_Ev2.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD020
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:55 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	127718	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 102.67%			
33) 1,4-difluorobenzene	11.307	114	440963	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 100.30%			
51) chlorobenzene-D5	15.983	54	47393	10.000	ppbV	# 0.00
Standard Area = 49994			Recovery = 94.80%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.958	65	96062	9.335	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 93.35%			
53) toluene-D8	14.133	98	400700	10.567	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.67%			
67) bromofluorobenzene	17.333	95	251361	10.537	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.37%			
Target Compounds						Qvalue
2) propylene	3.952	41	125130M6	18.215	ppbV	
3) dichlorodifluoromethane	4.030	85	173031	15.561	ppbV	100
4) chloromethane	4.192	50	103828	17.767	ppbV	99
5) Freon-114	4.300	85	217782	17.041	ppbV	97
6) vinyl chloride	4.420	62	102203	17.074	ppbV	99
7) 1,3-butadiene	4.564	54	80513	17.824	ppbV	93
8) bromomethane	4.846	94	98445	17.491	ppbV	100
9) chloroethane	5.038	64	51019	18.029	ppbV	100
10) ethanol	5.158	31	305291	110.542	ppbV	99
11) vinyl bromide	5.413	106	107415	18.209	ppbV	100
12) acrolein	5.533	56	45271	19.428	ppbV	98
13) acetone	5.670	43	681582	90.767	ppbV	97
14) trichlorofluoromethane	5.870	101	150699	18.756	ppbV	100
15) isopropyl alcohol	5.947	45	496446	47.595	ppbV	100
16) acrylonitrile	6.187	53	104601	19.937	ppbV	99
17) 1,1-dichloroethene	6.564	61	182681	18.996	ppbV	97
18) tertiary butyl alcohol	6.600	59	213878	19.848	ppbV	98
19) methylene chloride	6.702	49	146686	19.996	ppbV	95
20) 3-chloropropene	6.834	41	218037	19.799	ppbV	97
21) carbon disulfide	7.008	76	404011	20.399	ppbV	98
22) Freon 113	7.002	101	261720	19.645	ppbV	98
23) trans-1,2-dichloroethene	7.742	61	196969	18.792	ppbV	98
24) 1,1-dichloroethane	7.967	63	252614	19.451	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638443_Ev2.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD020
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:55 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.025	73	301951	19.703	ppbV		99
26) vinyl acetate	8.142	43	321592	19.457	ppbV		98
27) 2-butanone	8.400	43	336942	19.844	ppbV		97
28) cis-1,2-dichloroethene	8.908	61	184262	19.281	ppbV		99
29) Ethyl Acetate	9.167	61	51729	19.074	ppbV		79
30) chloroform	9.250	83	217403	18.939	ppbV		100
31) Tetrahydrofuran	9.667	42	213636	20.080	ppbV		97
32) 1,2-dichloroethane	10.075	62	120832	18.306	ppbV		97
34) hexane	9.158	57	220393	18.802	ppbV		95
36) 1,1,1-trichloroethane	10.367	97	186301	19.923	ppbV		100
37) benzene	10.887	78	461663	20.108	ppbV		99
38) carbon tetrachloride	11.060	117	166707	20.194	ppbV		98
39) cyclohexane	11.207	56	234768	19.171	ppbV		99
40) Dibromomethane	11.800	93	156952	19.876	ppbV	#	97
41) 1,2-dichloropropane	11.827	63	184625	20.121	ppbV		99
42) bromodichloromethane	12.053	83	222969	19.812	ppbV		100
43) 1,4-dioxane	12.087	88	111531	19.786	ppbV		98
44) trichloroethene	12.107	130	223914	20.357	ppbV		99
45) 2,2,4-trimethylpentane	12.153	57	717796	18.879	ppbV		99
46) heptane	12.467	43	344115	20.204	ppbV		97
47) cis-1,3-dichloropropene	13.108	75	237692	21.284	ppbV		98
48) 4-methyl-2-pentanone	13.142	43	411205	20.583	ppbV		98
49) trans-1,3-dichloropropene	13.733	75	189627	21.703	ppbV		98
50) 1,1,2-trichloroethane	13.933	97	202338	20.629	ppbV		97
52) toluene	14.250	91	582916	20.987	ppbV		100
54) 2-hexanone	14.517	43	380767	21.846	ppbV		98
55) dibromochloromethane	14.692	129	255903	21.883	ppbV		99
56) 1,2-dibromoethane	14.942	107	285146	21.543	ppbV		99
57) tetrachloroethene	15.400	166	232715	20.908	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	198817	21.419	ppbV		99
59) chlorobenzene	16.025	112	462235	20.922	ppbV		96
60) ethylbenzene	16.358	91	742454	20.979	ppbV		97
61) m+p-xylene	16.517	91	1159565	41.140	ppbV		97
62) bromoform	16.592	173	209460	23.330	ppbV		99
63) styrene	16.842	104	498742	22.011	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.933	83	419974	20.014	ppbV		99
65) o-xylene	16.933	91	577222	20.176	ppbV		95
66) 1,2,3-Trichloropropane	17.042	75	302537	21.061	ppbV		99
68) isopropylbenzene	17.450	105	756065	21.207	ppbV		99
69) Bromobenzene	17.525	77	393258	20.668	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638443_Ev2.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD020
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:00:55 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

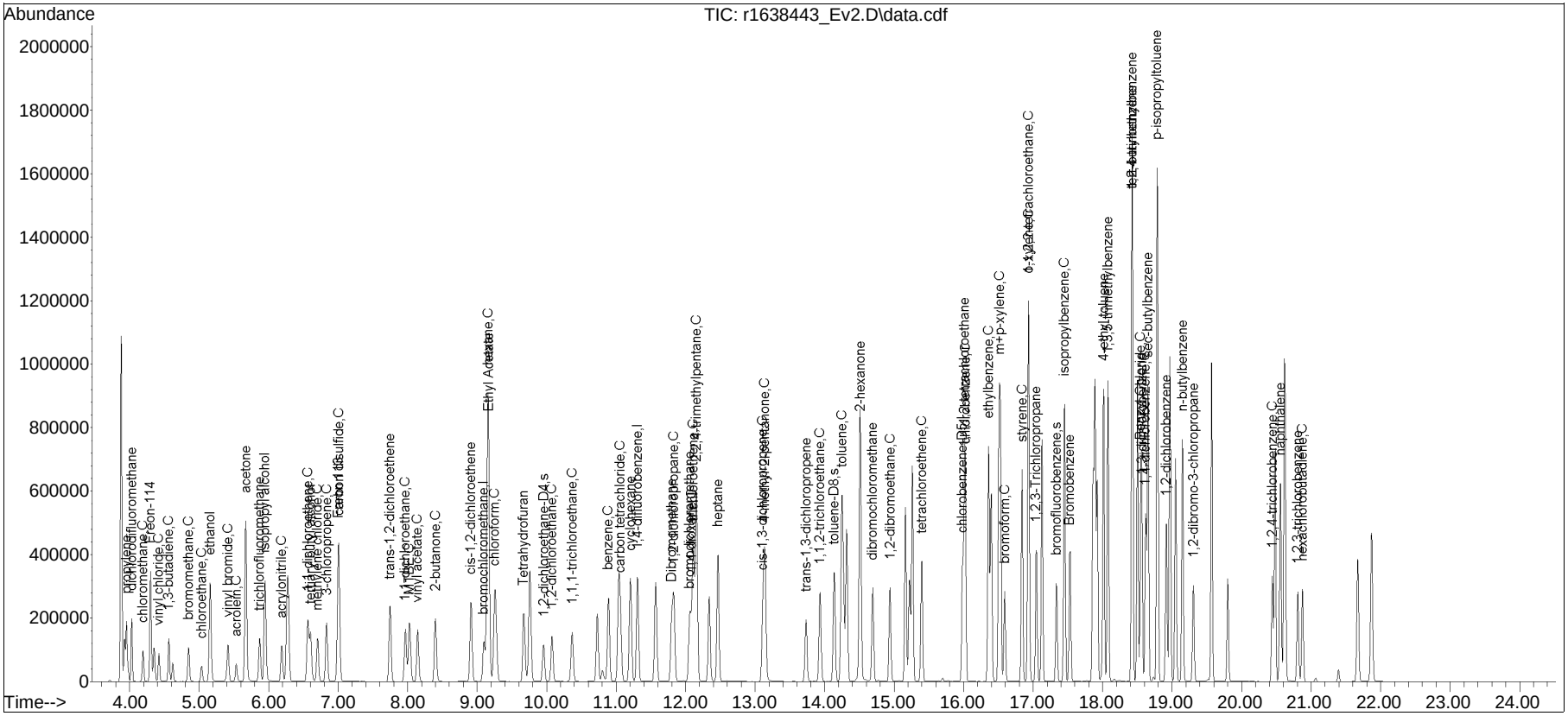
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	799511	20.910	ppbV	97
71) 1,3,5-trimethylbenzene	18.075	105	686560	21.225	ppbV	99
72) tert-butylbenzene	18.425	119	699221	19.927	ppbV	96
73) 1,2,4-trimethylbenzene	18.425	105	682266	20.693	ppbV	96
74) Benzyl Chloride	18.550	91	423503	26.129	ppbV	92
75) 1,3-dichlorobenzene	18.567	146	539893	21.383	ppbV	93
76) 1,4-dichlorobenzene	18.617	146	533071	21.445	ppbV	100
77) sec-butylbenzene	18.650	105	980547	20.924	ppbV	98
78) p-isopropyltoluene	18.783	119	839917	19.849	ppbV	95
79) 1,2-dichlorobenzene	18.917	146	511015	21.146	ppbV	99
80) n-butylbenzene	19.150	91	785474	20.915	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.308	75	152231	21.210	ppbV	93
82) 1,2,4-trichlorobenzene	20.442	180	339629	22.060	ppbV	98
83) naphthalene	20.558	128	972248	20.749	ppbV	100
84) 1,2,3-trichlorobenzene	20.808	180	298450	21.403	ppbV	98
85) hexachlorobutadiene	20.875	225	228068	19.774	ppbV	97

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638443_Ev2.D
Acq On : 25 Jul 2023 12:30 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD020
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

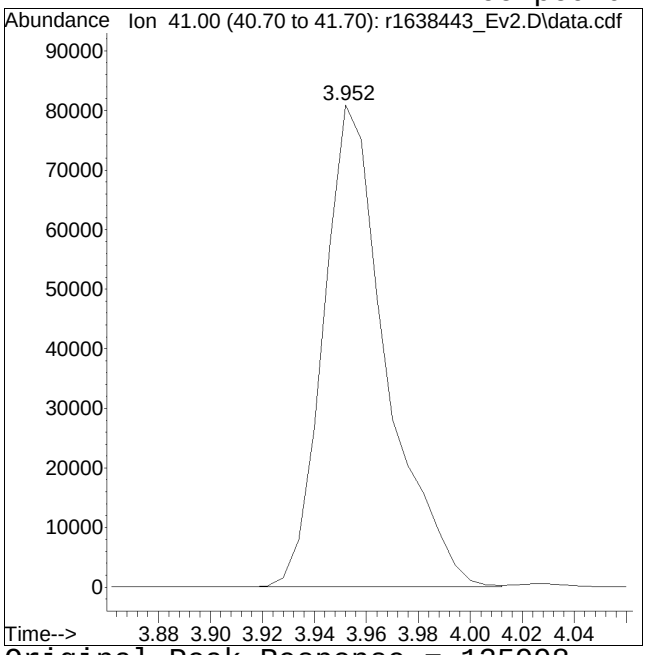
Quant Time: Jul 25 22:00:55 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



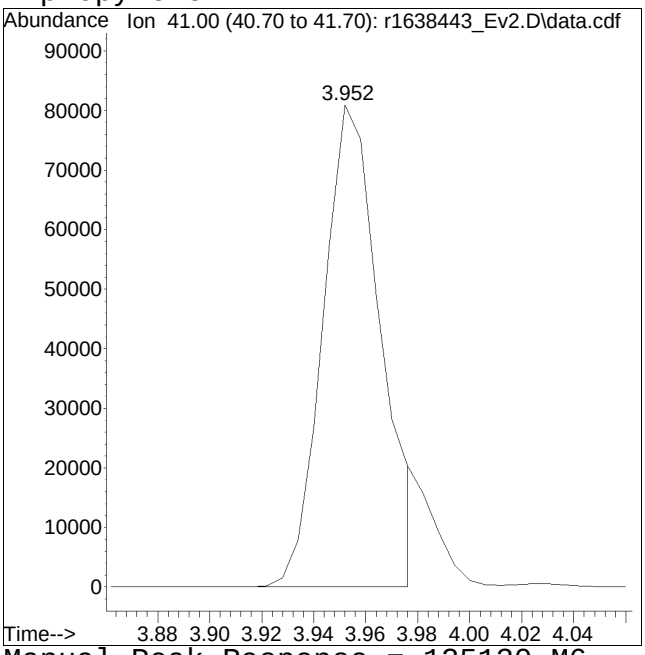
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638443_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:2: 0 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 7/25/2023 10:00 pm

Compound #2: propylene



Original Peak Response = 135998



Manual Peak Response = 125130 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638444_Ev2.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD050
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:01:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	120317	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 96.72%			
33) 1,4-difluorobenzene	11.313	114	400682	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 91.14%			
51) chlorobenzene-D5	15.983	54	40475	10.000	ppbV	# 0.00
Standard Area = 49994			Recovery = 80.96%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.958	65	77460	8.284	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 82.84%			
53) toluene-D8	14.142	98	369207	11.401	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.01%			
67) bromofluorobenzene	17.342	95	238270	11.695	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 116.95%			
Target Compounds						Qvalue
2) propylene	3.946	41	250060M6	38.639	ppbV	
3) dichlorodifluoromethane	4.024	85	379311	36.212	ppbV	99
4) chloromethane	4.186	50	234057	42.515	ppbV	99
5) Freon-114	4.294	85	472922	39.280	ppbV	96
6) vinyl chloride	4.414	62	223181	39.577	ppbV	99
7) 1,3-butadiene	4.558	54	177844	41.793	ppbV	92
8) bromomethane	4.846	94	208354	39.296	ppbV	99
9) chloroethane	5.032	64	107906	40.477	ppbV	98
10) ethanol	5.164	31	722182	277.579	ppbV	94
11) vinyl bromide	5.413	106	221417	39.844	ppbV	100
12) acrolein	5.533	56	98399	44.824	ppbV	98
13) acetone	5.670	43	1356405	191.745	ppbV	94
14) trichlorofluoromethane	5.867	101	310577	41.033	ppbV	100
15) isopropyl alcohol	5.953	45	1014242	103.219	ppbV	100
16) acrylonitrile	6.190	53	227707	46.071	ppbV	99
17) 1,1-dichloroethene	6.564	61	357097	39.417	ppbV	92
18) tertiary butyl alcohol	6.606	59	425550	41.919	ppbV	98
19) methylene chloride	6.702	49	325445	47.093	ppbV	89
20) 3-chloropropene	6.834	41	454367	43.797	ppbV	93
21) carbon disulfide	7.008	76	866624	46.447	ppbV	97
22) Freon 113	7.002	101	540302	43.051	ppbV	98
23) trans-1,2-dichloroethene	7.742	61	385719	39.064	ppbV	97
24) 1,1-dichloroethane	7.967	63	500227	40.886	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638444_Ev2.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD050
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:01:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.025	73	644801	44.663	ppbV		97
26) vinyl acetate	8.142	43	696453	44.728	ppbV		96
27) 2-butanone	8.400	43	719756	44.996	ppbV		95
28) cis-1,2-dichloroethene	8.917	61	359790	39.965	ppbV		88
29) Ethyl Acetate	9.175	61	102034	39.938	ppbV		92
30) chloroform	9.250	83	424212	39.229	ppbV		98
31) Tetrahydrofuran	9.667	42	457765	45.673	ppbV		100
32) 1,2-dichloroethane	10.083	62	223426	35.930	ppbV	#	90
34) hexane	9.158	57	426766	40.069	ppbV		99
36) 1,1,1-trichloroethane	10.367	97	360889	42.473	ppbV		98
37) benzene	10.893	78	994933	47.691	ppbV		99
38) carbon tetrachloride	11.067	117	328473	43.790	ppbV		98
39) cyclohexane	11.207	56	474357	42.631	ppbV		96
40) Dibromomethane	11.800	93	311135	43.362	ppbV	#	91
41) 1,2-dichloropropane	11.833	63	372171	44.637	ppbV		98
42) bromodichloromethane	12.060	83	440808	43.106	ppbV		99
43) 1,4-dioxane	12.087	88	227382	44.393	ppbV		95
44) trichloroethene	12.113	130	456590	45.685	ppbV		98
45) 2,2,4-trimethylpentane	12.153	57	1395518	40.395	ppbV		99
46) heptane	12.467	43	723094	46.724	ppbV		95
47) cis-1,3-dichloropropene	13.117	75	522177	51.458	ppbV		92
48) 4-methyl-2-pentanone	13.142	43	870082	47.931	ppbV		95
49) trans-1,3-dichloropropene	13.733	75	408815	51.494	ppbV		95
50) 1,1,2-trichloroethane	13.942	97	416967	46.785	ppbV		95
52) toluene	14.250	91	1164183	49.078	ppbV		99
54) 2-hexanone	14.517	43	787844	52.927	ppbV		95
55) dibromochloromethane	14.692	129	518530	51.920	ppbV		99
56) 1,2-dibromoethane	14.942	107	603560	53.392	ppbV		96
57) tetrachloroethene	15.400	166	474294	49.896	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.008	131	395757	49.924	ppbV		99
59) chlorobenzene	16.025	112	954763	50.601	ppbV		99
60) ethylbenzene	16.358	91	1456512	48.191	ppbV		93
61) m+p-xylene	16.525	91	2228809	92.591	ppbV		90
62) bromoform	16.592	173	441542	57.586	ppbV		98
63) styrene	16.842	104	1077830	55.699	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.933	83	837664	46.742	ppbV		97
65) o-xylene	16.942	91	1095110	44.820	ppbV		85
66) 1,2,3-Trichloropropane	17.050	75	656561	53.520	ppbV		96
68) isopropylbenzene	17.458	105	1581301	51.935	ppbV		99
69) Bromobenzene	17.533	77	837862	51.561	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638444_Ev2.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD050
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 25 22:01:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

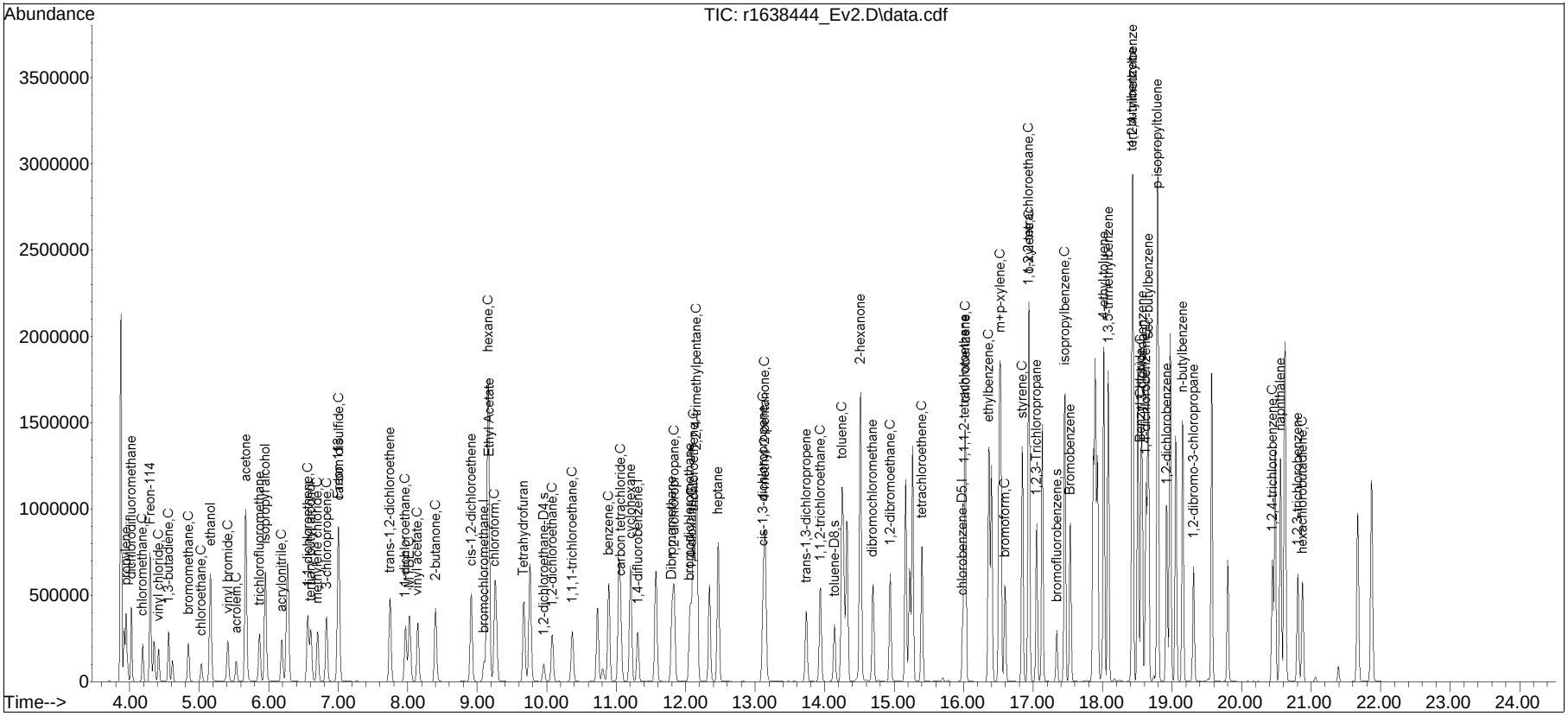
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	1694109	51.879	ppbV	98
71) 1,3,5-trimethylbenzene	18.083	105	1425588	51.604	ppbV	99
72) tert-butylbenzene	18.425	119	1366509	45.601	ppbV	95
73) 1,2,4-trimethylbenzene	18.433	105	1354252	48.095	ppbV	92
74) Benzyl Chloride	18.550	91	938386	67.790	ppbV	92
75) 1,3-dichlorobenzene	18.567	146	1161027	53.844	ppbV	98
76) 1,4-dichlorobenzene	18.625	146	1129777	53.218	ppbV	97
77) sec-butylbenzene	18.658	105	2034409	50.832	ppbV	93
78) p-isopropyltoluene	18.792	119	1649840	45.653	ppbV	93
79) 1,2-dichlorobenzene	18.925	146	1118824	54.210	ppbV	97
80) n-butylbenzene	19.150	91	1568423	48.901	ppbV	94
81) 1,2-dibromo-3-chloropr...	19.308	75	333374	54.386	ppbV	89
82) 1,2,4-trichlorobenzene	20.442	180	741217	56.373	ppbV	98
83) naphthalene	20.558	128	2071190	51.757	ppbV	98
84) 1,2,3-trichlorobenzene	20.808	180	671913	56.422	ppbV	99
85) hexachlorobutadiene	20.875	225	471359	47.853	ppbV	97

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638444_Ev2.D
Acq On : 25 Jul 2023 1:09 PM
Operator : AIRLAB16:APR
Sample : ITO15-SIMSTD050
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

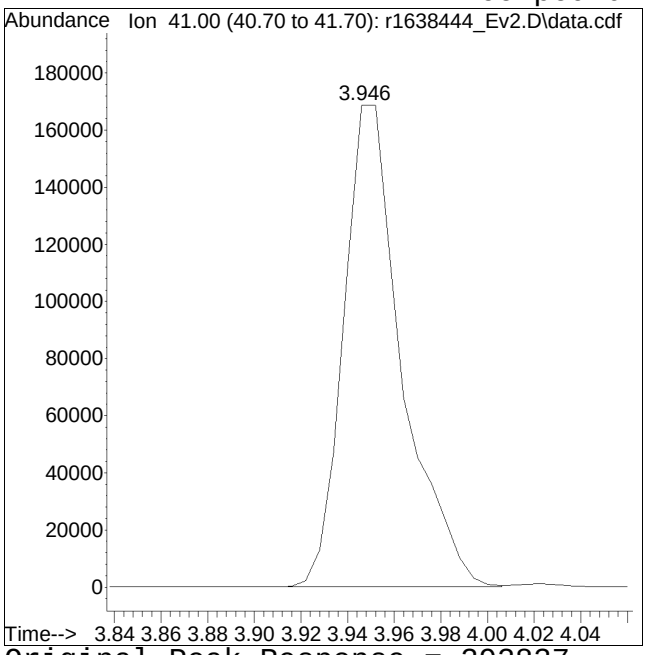
Quant Time: Jul 25 22:01:00 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jul 25 21:59:47 2023
Response via : Initial Calibration



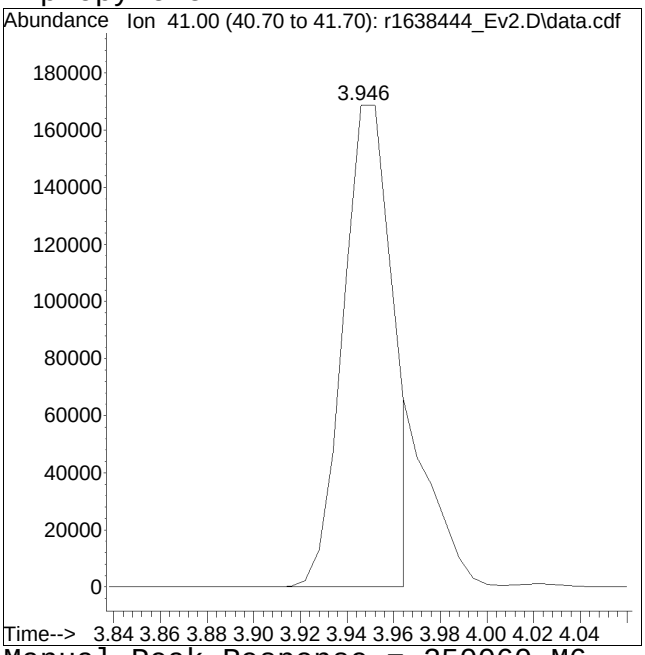
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638444_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/25/2020 0:1: 9 Instrument :
Sample : ITO15-SIMSTD050 Quant Date : 7/25/2023 10:01 pm

Compound #2: propylene



Original Peak Response = 292837



Manual Peak Response = 250060 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	93	0.00
2		propylene	0.540	0.428	20.7	74	0.00
3		dichlorodifluoromethane	0.815	0.612	24.9	65	0.00
4	C	chloromethane	0.450	0.352	21.8	71	0.00
5		Freon-114	0.901	0.845	6.2	78	0.00
6	C	vinyl chloride	0.425	0.345	18.8	68	0.00
7	C	1,3-butadiene	0.330	0.287	13.0	75	0.00
8	C	bromomethane	0.397	0.334	15.9	70	0.00
9	C	chloroethane	0.208	0.171	17.8	72	0.00
10		ethanol	0.256	0.221	13.7	95	0.00
11	C	vinyl bromide	0.442	0.333	24.7	67	0.00
12	C	acrolein	0.177	0.137	22.6	70	0.00
13		acetone	0.575	0.454	21.0	72	0.00
14		trichlorofluoromethane	0.678	0.495	27.0	73	0.00
15		isopropyl alcohol	0.807	0.590	26.9	67	0.00
16	C	acrylonitrile	0.403	0.283	29.8	64	0.00
17	C	1,1-dichloroethene	0.685	0.568	17.1	70	0.00
18		tertiary butyl alcohol	0.800	0.609	23.9	67	0.00
19	C	methylene chloride	0.579	0.532	8.1	86	0.00
20	C	3-chloropropene	0.839	0.729	13.1	78	0.00
21	C	carbon disulfide	1.506	1.302	13.5	78	0.00
22		Freon 113	1.023	0.912	10.9	81	0.00
23		trans-1,2-dichloroethene	0.740	0.577	22.0	65	0.00
24	C	1,1-dichloroethane	0.918	0.775	15.6	71	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
25	C	MTBE	1.053	1.003	4.7	77	0.00
26	C	vinyl acetate	1.237	0.620	49.9#	44#	0.00
27	C	2-butanone	1.306	1.096	16.1	76	0.00
28		cis-1,2-dichloroethene	0.669	0.557	16.7	69	0.00
29		Ethyl Acetate	0.201	0.160	20.4	70	0.00
30	C	chloroform	0.836	0.672	19.6	69	0.00
31		Tetrahydrofuran	0.805	0.665	17.4	74	0.00
32	C	1,2-dichloroethane	0.492	0.333	32.3#	60#	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.00
34	C	hexane	0.256	0.208	18.8	68	0.00
35	s	1,2-dichloroethane-D4	0.226	0.189	16.4	70	0.00
36	C	1,1,1-trichloroethane	0.196	0.165	15.8	68	0.00
37	C	benzene	0.535	0.462	13.6	77	0.00
38	C	carbon tetrachloride	0.182	0.150	17.6	69	0.00
39		cyclohexane	0.268	0.224	16.4	70	0.00
40		Dibromomethane	0.175	0.144	17.7	70	0.00
41	C	1,2-dichloropropane	0.196	0.175	10.7	73	0.00
42		bromodichloromethane	0.213	0.205	3.8	70	0.00
43	C	1,4-dioxane	0.116	0.105	9.5	71	0.00
44	C	trichloroethene	0.240	0.225	6.2	78	0.00
45	C	2,2,4-trimethylpentane	0.831	0.685	17.6	69	0.00
46		heptane	0.384	0.350	8.9	79	0.00
47	C	cis-1,3-dichloropropene	0.223	0.235	-5.4	80	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48	C	4-methyl-2-pentanone	0.439	0.410	6.6	79	0.00
49		trans-1,3-dichloropropene	0.177	0.168	5.1	74	0.00
50	C	1,1,2-trichloroethane	0.208	0.200	3.8	78	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	76	0.00
52	C	toluene	6.751	5.647	16.4	73	0.00
53	s	toluene-D8	8.200	9.152	-11.6	87	0.00
54		2-hexanone	3.510	3.736	-6.4	77	0.00
55		dibromochloromethane	2.123	2.545	-19.9	78	0.00
56	C	1,2-dibromoethane	2.551	2.938	-15.2	80	0.00
57	C	tetrachloroethene	2.392	2.347	1.9	76	0.00
58		1,1,1,2-tetrachloroethane	1.798	1.928	-7.2	75	0.00
59	C	chlorobenzene	4.353	4.766	-9.5	77	0.00
60	C	ethylbenzene	6.898	7.294	-5.7	74	0.00
61	C	m+p-xylene	5.520	5.879	-6.5	75	0.00
62	C	bromoform	1.625	2.120	-30.5#	85	0.00
63	C	styrene	4.258	5.322	-25.0	84	0.00
64	C	1,1,2,2-tetrachloroethane	4.001	4.323	-8.0	74	0.00
65	C	o-xylene	5.572	6.153	-10.4	77	0.00
66		1,2,3-Trichloropropane	2.774	3.062	-10.4	76	0.00
67	s	bromofluorobenzene	5.148	5.896	-14.5	89	0.00
68	C	isopropylbenzene	7.690	8.209	-6.7	83	0.00
69		Bromobenzene	3.616	4.024	-11.3	76	0.00
70		4-ethyl toluene	6.990	8.648	-23.7	81	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
71		1,3,5-trimethylbenzene	6.094	7.521	-23.4	83	0.00
72		tert-butylbenzene	7.267	7.413	-2.0	76	0.00
73		1,2,4-trimethylbenzene	6.204	7.510	-21.1	82	0.00
74	C	Benzyl Chloride	3.090	3.418	-10.6	76	0.00
75		1,3-dichlorobenzene	4.801	5.826	-21.3	83	0.00
76	C	1,4-dichlorobenzene	4.737	5.743	-21.2	83	0.00
77		sec-butylbenzene	10.045	10.547	-5.0	81	0.00
78		p-isopropyltoluene	8.784	8.421	4.1	71	0.00
79		1,2-dichlorobenzene	4.616	5.511	-19.4	82	0.00
80		n-butylbenzene	7.890	8.606	-9.1	82	0.00
81		1,2-dibromo-3-chloropropane	1.272	1.497	-17.7	75	0.00
82	C	1,2,4-trichlorobenzene	2.871	3.403	-18.5	79	0.05
83		naphthalene	8.598	10.598	-23.3	81	0.05
84		1,2,3-trichlorobenzene	2.637	3.220	-22.1	83	0.06
85	C	hexachlorobutadiene	2.216	2.517	-13.6	78	0.06

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 3

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.100	49	115284	10.000	ppbV	0.00
Standard Area = 124394			Recovery = 92.68%			
33) 1,4-difluorobenzene	11.313	114	381687	10.000	ppbV	0.00
Standard Area = 439642			Recovery = 86.82%			
51) chlorobenzene-D5	15.983	54	37845	10.000	ppbV	# 0.00
Standard Area = 49994			Recovery = 75.70%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.958	65	71985	8.357	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 83.57%			
53) toluene-D8	14.142	98	346350	11.161	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.61%			
67) bromofluorobenzene	17.333	95	223120	11.453	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 114.53%			
Target Compounds						Qvalue
2) propylene	3.952	41	24676M6	3.966	ppbV	
3) dichlorodifluoromethane	4.030	85	35281	3.757	ppbV	99
4) chloromethane	4.192	50	20304	3.916	ppbV	98
5) Freon-114	4.300	85	48730	4.692	ppbV	94
6) vinyl chloride	4.420	62	19909	4.061	ppbV	100
7) 1,3-butadiene	4.564	54	16572	4.350	ppbV	88
8) bromomethane	4.846	94	19237	4.203	ppbV	99
9) chloroethane	5.032	64	9877	4.129	ppbV	96
10) ethanol	5.152	31	63804	21.659	ppbV	93
11) vinyl bromide	5.413	106	19204	3.766	ppbV	98
12) acrolein	5.537	56	7891	3.861	ppbV	97
13) acetone	5.670	43	130783	19.734	ppbV	99
14) trichlorofluoromethane	5.870	101	28507	3.649	ppbV	99
15) isopropyl alcohol	5.943	45	85014	9.136	ppbV	100
16) acrylonitrile	6.187	53	16325	3.513	ppbV	99
17) 1,1-dichloroethene	6.564	61	32736	4.147	ppbV	92
18) tertiary butyl alcohol	6.600	59	35125	3.808	ppbV	99
19) methylene chloride	6.702	49	30661	4.590	ppbV	88
20) 3-chloropropene	6.834	41	42003	4.345	ppbV	93
21) carbon disulfide	7.008	76	75030	4.322	ppbV	98
22) Freon 113	7.002	101	52546	4.455	ppbV	96
23) trans-1,2-dichloroethene	7.750	61	33235	3.896	ppbV	88
24) 1,1-dichloroethane	7.967	63	44686	4.221	ppbV	98

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	8.033	73	57801	4.763	ppbV		94
26) vinyl acetate	8.150	43	35745	2.507	ppbV		99
27) 2-butanone	8.400	43	63171	4.196	ppbV		97
28) cis-1,2-dichloroethene	8.908	61	32096	4.159	ppbV		94
29) Ethyl Acetate	9.167	61	9228	3.986	ppbV	#	41
30) chloroform	9.250	83	38708	4.014	ppbV		98
31) Tetrahydrofuran	9.675	42	38337	4.130	ppbV		98
32) 1,2-dichloroethane	10.075	62	19175	3.383	ppbV	#	89
34) hexane	9.158	57	39751	4.068	ppbV		94
36) 1,1,1-trichloroethane	10.367	97	31480	4.213	ppbV		99
37) benzene	10.893	78	88196	4.318	ppbV		97
38) carbon tetrachloride	11.067	117	28595	4.120	ppbV		98
39) cyclohexane	11.207	56	42768	4.184	ppbV		97
40) Dibromomethane	11.800	93	27565	4.136	ppbV	#	91
41) 1,2-dichloropropane	11.833	63	33379	4.468	ppbV		97
42) bromodichloromethane	12.060	83	39216	4.832	ppbV		100
43) 1,4-dioxane	12.093	88	20090	4.537	ppbV		94
44) trichloroethene	12.113	130	42949	4.696	ppbV		97
45) 2,2,4-trimethylpentane	12.153	57	130668	4.119	ppbV		99
46) heptane	12.467	43	66832	4.564	ppbV		94
47) cis-1,3-dichloropropene	13.117	75	44772	5.265	ppbV	#	91
48) 4-methyl-2-pentanone	13.142	43	78202	4.670	ppbV		93
49) trans-1,3-dichloropropene	13.733	75	32063	4.743	ppbV		93
50) 1,1,2-trichloroethane	13.933	97	38235	4.816	ppbV		94
52) toluene	14.250	91	106861	4.183	ppbV		100
54) 2-hexanone	14.517	43	70699	5.322	ppbV	#	89
55) dibromochloromethane	14.692	129	48162	5.994	ppbV		99
56) 1,2-dibromoethane	14.942	107	55587	5.758	ppbV		99
57) tetrachloroethene	15.400	166	44419	4.906	ppbV		97
58) 1,1,1,2-tetrachloroethane	16.008	131	36475	5.359	ppbV		99
59) chlorobenzene	16.025	112	90186	5.474	ppbV		97
60) ethylbenzene	16.358	91	138012	5.286	ppbV		96
61) m+p-xylene	16.517	91	222476	10.650	ppbV		93
62) bromoform	16.592	173	40118	6.525	ppbV		100
63) styrene	16.842	104	100706	6.250	ppbV		96
64) 1,1,2,2-tetrachloroethane	16.933	83	81809	5.402	ppbV		100
65) o-xylene	16.933	91	116424	5.521	ppbV		95
66) 1,2,3-Trichloropropane	17.042	75	57950	5.521	ppbV		95
68) isopropylbenzene	17.450	105	155340	5.337	ppbV		96
69) Bromobenzene	17.525	77	76149	5.565	ppbV		97

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\r1638441_Ev2.D
Sub List : Default - All compounds listed

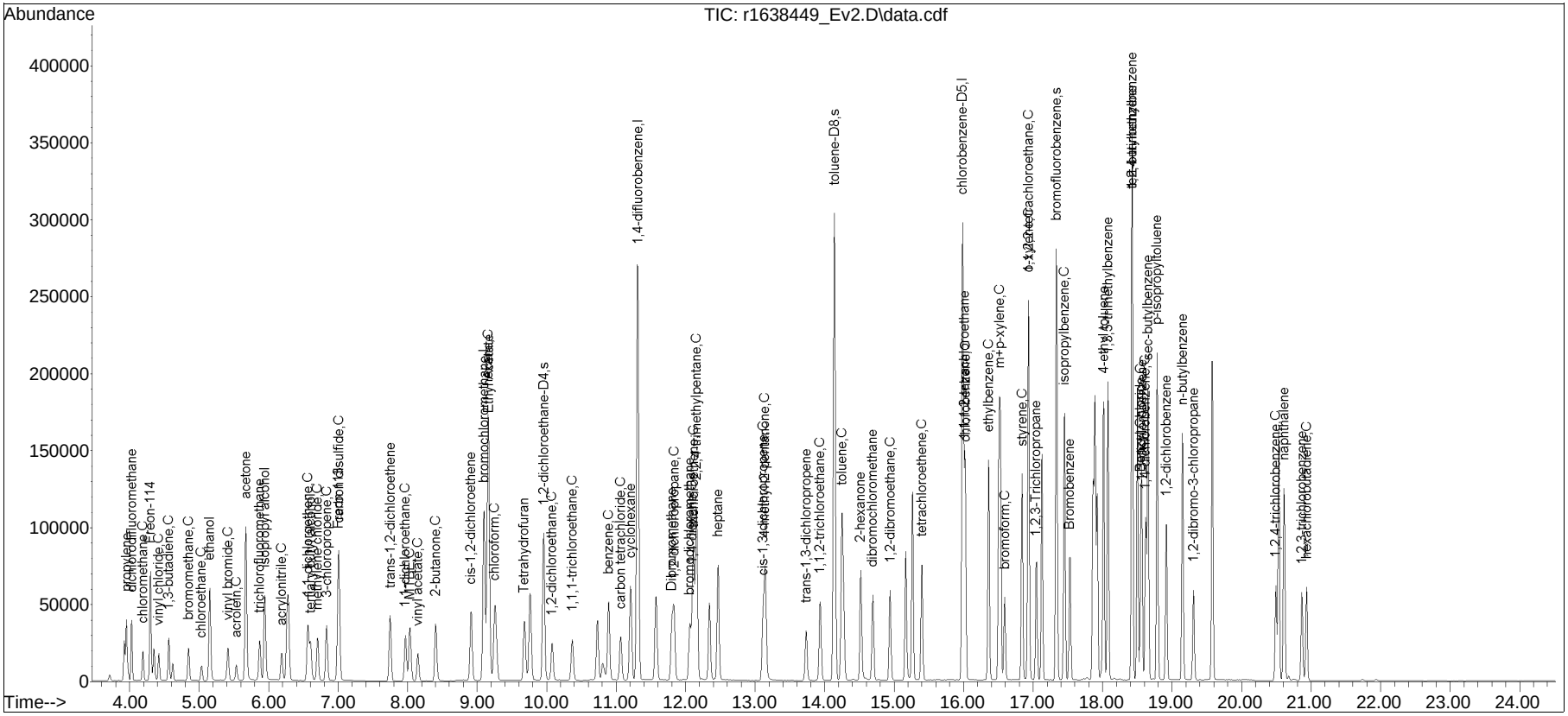
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.017	105	163645	6.186	ppbV	98
71) 1,3,5-trimethylbenzene	18.075	105	142313	6.170	ppbV	97
72) tert-butylbenzene	18.425	119	140279	5.101	ppbV	97
73) 1,2,4-trimethylbenzene	18.425	105	142108	6.052	ppbV	95
74) Benzyl Chloride	18.550	91	64676	5.531	ppbV	94
75) 1,3-dichlorobenzene	18.567	146	110239	6.068	ppbV	92
76) 1,4-dichlorobenzene	18.617	146	108676	6.062	ppbV	99
77) sec-butylbenzene	18.650	105	199567	5.249	ppbV	99
78) p-isopropyltoluene	18.783	119	159346	4.794	ppbV	95
79) 1,2-dichlorobenzene	18.917	146	104281	5.969	ppbV	99
80) n-butylbenzene	19.150	91	162848	5.454	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.308	75	28332	5.884	ppbV	92
82) 1,2,4-trichlorobenzene	20.492	180	64399	5.927	ppbV	98
83) naphthalene	20.608	128	200534	6.163	ppbV	100
84) 1,2,3-trichlorobenzene	20.867	180	60935	6.105	ppbV	98
85) hexachlorobutadiene	20.933	225	47635	5.680	ppbV	97

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

Sub List : Default - All compounds listed3\07\0725SIM_I\r1638441_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\
Data File : r1638449_Ev2.D
Acq On : 26 Jul 2023 1:05 AM
Operator : AIRLAB16:APR
Sample : CTO15-SIMSTD5.0
Misc : WG1807911
ALS Vial : 0 Sample Multiplier: 1

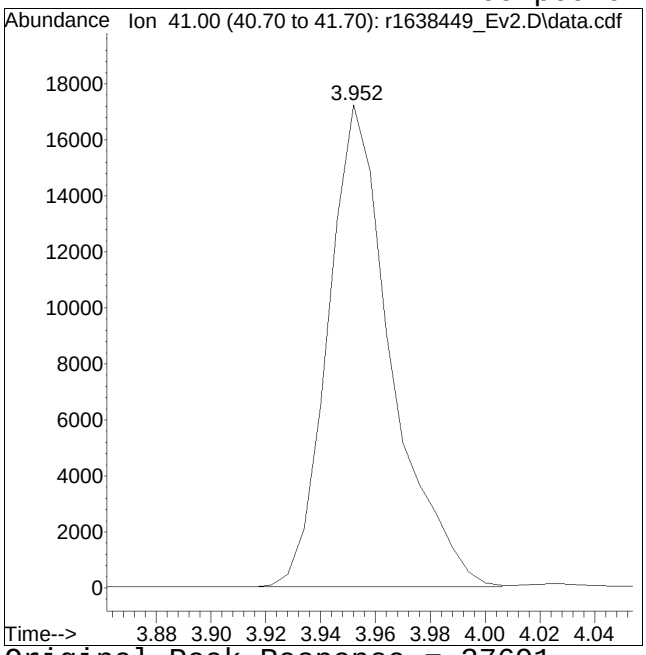
Quant Time: Jul 31 14:41:27 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\07\0725SIM_I\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration



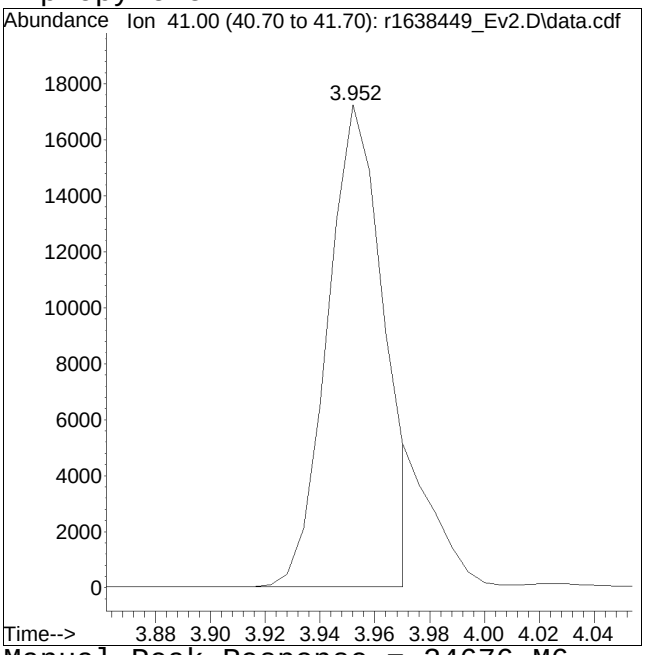
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638449_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 7/26/2020 0:1: 5 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 7/31/2023 2:41 pm

Compound #2: propylene



Original Peak Response = 27691



Manual Peak Response = 24676 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**	: L2347540		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB16	**Calibration Date**	: 08/22/23 11:54		
Lab File ID	: R1638954_EV2	**Init. Calib. Date(s)**	: 07/25/23	07/25/23	
Sample No	: WG1818794-2	**Init. Calib. Times**	: 07:17	13:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	98	0
propylene	0.54	0.53	-	1.9	30	97	0
dichlorodifluoromethane	0.815	0.684	-	16.1	30	77	0
chloromethane	0.45	0.35	-	22.2	30	75	0
Freon-114	0.901	0.924	-	-2.6	30	90	0
vinyl chloride	0.425	0.433	-	-1.9	30	90	0
1,3-butadiene	0.33	0.304	-	7.9	30	84	0
bromomethane	0.397	0.407	-	-2.5	30	90	0
chloroethane	0.208	0.212	-	-1.9	30	94	0
ethanol	0.256	0.245	-	4.3	30	111	0
vinyl bromide	0.442	0.347	-	21.5	30	74	0
acrolein	0.177	0.165	-	6.8	30	89	0
acetone	0.575	0.485	-	15.7	30	81	0
trichlorofluoromethane	0.678	0.623	-	8.1	30	97	0
isopropyl alcohol	0.807	0.643	-	20.3	30	77	0
acrylonitrile	0.403	0.432	-	-7.2	30	103	0
1,1-dichloroethene	0.685	0.66	-	3.6	30	86	0
tertiary butyl alcohol	0.8	0.712	-	11	30	83	0
methylene chloride	0.579	0.576	-	0.5	30	98	0
3-chloropropene	0.839	0.687	-	18.1	30	78	0
carbon disulfide	1.506	1.432	-	4.9	30	91	0
Freon 113	1.023	0.96	-	6.2	30	90	0
trans-1,2-dichloroethene	0.74	0.673	-	9.1	30	80	0
1,1-dichloroethane	0.918	0.853	-	7.1	30	82	0
MTBE	1.053	0.94	-	10.7	30	77	0
vinyl acetate	1.237	0.895	-	27.6	30	68	0
2-butanone	1.306	0.988	-	24.3	30	73	0
cis-1,2-dichloroethene	0.669	0.666	-	0.4	30	87	0
Ethyl Acetate	0.201	0.196	-	2.5	30	91	0
chloroform	0.836	0.834	-	0.2	30	91	0
Tetrahydrofuran	0.805	0.622	-	22.7	30	73	0
1,2-dichloroethane	0.492	0.39	-	20.7	30	74	0
1,4-difluorobenzene	1	1	-	0	30	95	0
hexane	0.256	0.265	-	-3.5	30	95	0
1,1,1-trichloroethane	0.196	0.166	-	15.3	30	74	0
benzene	0.535	0.532	-	0.6	30	97	0
carbon tetrachloride	0.182	0.168	-	7.7	30	85	0
cyclohexane	0.268	0.29	-	-8.2	30	99	0
Dibromomethane	0.175	0.165	-	5.7	30	88	0
1,2-dichloropropane	0.196	0.191	-	2.6	30	87	0
bromodichloromethane	0.213	0.248	-	-16.4	30	92	0
1,4-dioxane	0.116	0.119	-	-2.6	30	89	0
trichloroethene	0.24	0.239	-	0.4	30	91	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2347540		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB16	**Calibration Date**	: 08/22/23 11:54		
Lab File ID	: R1638954_EV2	**Init. Calib. Date(s)**	: 07/25/23	07/25/23	
Sample No	: WG1818794-2	**Init. Calib. Times**	: 07:17	13:09	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	0.831	0.882	-	-6.1	30	97	0
heptane	0.384	0.313	-	18.5	30	77	0
cis-1,3-dichloropropene	0.223	0.247	-	-10.8	30	93	0
4-methyl-2-pentanone	0.439	0.367	-	16.4	30	77	0
trans-1,3-dichloropropene	0.177	0.179	-	-1.1	30	86	0
1,1,2-trichloroethane	0.208	0.216	-	-3.8	30	92	0
chlorobenzene-D5	1	1	-	0	30	96	0
toluene	6.751	5.324	-	21.1	30	87	0
2-hexanone	3.51	2.855	-	18.7	30	74	0
dibromochloromethane	2.123	2.453	-	-15.5	30	95	0
1,2-dibromoethane	2.551	2.866	-	-12.3	30	98	0
tetrachloroethene	2.392	2.28	-	4.7	30	93	0
1,1,1,2-tetrachloroethane	1.798	1.83	-	-1.8	30	89	0
chlorobenzene	4.353	4.685	-	-7.6	30	96	0
ethylbenzene	6.898	6.769	-	1.9	30	87	0
m+p-xylene	5.52	5.48	-	0.7	30	88	0
bromoform	1.625	2.049	-	-26.1	30	104	0
styrene	4.258	4.849	-	-13.9	30	97	0
1,1,2,2-tetrachloroethane	4.001	4.78	-	-19.5	30	103	0
o-xylene	5.572	5.678	-	-1.9	30	90	0
1,2,3-Trichloropropane	2.774	3.163	-	-14	30	100	0
isopropylbenzene	7.69	7.635	-	0.7	30	97	0
Bromobenzene	3.616	4.12	-	-13.9	30	98	0
4-ethyl toluene	6.99	7.751	-	-10.9	30	92	0
1,3,5-trimethylbenzene	6.094	6.801	-	-11.6	30	95	0
tert-butylbenzene	7.267	6.856	-	5.7	30	89	0
1,2,4-trimethylbenzene	6.204	6.826	-	-10	30	94	0
Benzyl Chloride	3.09	3.24	-	-4.9	30	91	0
1,3-dichlorobenzene	4.801	5.359	-	-11.6	30	96	0
1,4-dichlorobenzene	4.737	5.282	-	-11.5	30	96	0
sec-butylbenzene	10.045	9.793	-	2.5	30	95	0
p-isopropyltoluene	8.784	7.655	-	12.9	30	82	0
1,2-dichlorobenzene	4.616	5.041	-	-9.2	30	95	0
n-butylbenzene	7.89	7.515	-	4.8	30	91	0
1,2-dibromo-3-chloropropan	1.272	1.495	-	-17.5	30	94	0
1,2,4-trichlorobenzene	2.871	2.787	-	2.9	30	82	0
naphthalene	8.598	8.77	-	-2	30	85	0
1,2,3-trichlorobenzene	2.637	2.784	-	-5.6	30	91	0
hexachlorobutadiene	2.216	2.108	-	4.9	30	83	0

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	98	0.00
2		propylene	0.540	0.530	1.9	97	0.00
3		dichlorodifluoromethane	0.815	0.684	16.1	77	0.00
4	C	chloromethane	0.450	0.350	22.2	75	0.00
5		Freon-114	0.901	0.924	-2.6	90	0.00
6	C	vinyl chloride	0.425	0.433	-1.9	90	0.00
7	C	1,3-butadiene	0.330	0.304	7.9	84	0.00
8	C	bromomethane	0.397	0.407	-2.5	90	0.00
9	C	chloroethane	0.208	0.212	-1.9	94	0.00
10		ethanol	0.256	0.245	4.3	111	0.00
11	C	vinyl bromide	0.442	0.347	21.5	74	0.00
12	C	acrolein	0.177	0.165	6.8	89	0.00
13		acetone	0.575	0.485	15.7	81	0.00
14		trichlorofluoromethane	0.678	0.623	8.1	97	0.00
15		isopropyl alcohol	0.807	0.643	20.3	77	0.00
16	C	acrylonitrile	0.403	0.432	-7.2	103	0.00
17	C	1,1-dichloroethene	0.685	0.660	3.6	86	0.00
18		tertiary butyl alcohol	0.800	0.712	11.0	83	0.00
19	C	methylene chloride	0.579	0.576	0.5	98	0.00
20	C	3-chloropropene	0.839	0.687	18.1	78	0.00
21	C	carbon disulfide	1.506	1.432	4.9	91	0.00
22		Freon 113	1.023	0.960	6.2	90	0.00
23		trans-1,2-dichloroethene	0.740	0.673	9.1	80	0.00
24	C	1,1-dichloroethane	0.918	0.853	7.1	82	0.00
25	C	MTBE	1.053	0.940	10.7	77	0.00
26	C	vinyl acetate	1.237	0.895	27.6	68	0.00
27	C	2-butanone	1.306	0.988	24.3	73	0.00
28		cis-1,2-dichloroethene	0.669	0.666	0.4	87	0.00
29		Ethyl Acetate	0.201	0.196	2.5	91	0.00
30	C	chloroform	0.836	0.834	0.2	91	0.00
31		Tetrahydrofuran	0.805	0.622	22.7	73	0.00
32	C	1,2-dichloroethane	0.492	0.390	20.7	74	0.00
33	I	1,4-difluorobenzene	1.000	1.000	0.0	95	0.00
34	C	hexane	0.256	0.265	-3.5	95	0.00
36	C	1,1,1-trichloroethane	0.196	0.166	15.3	74	0.00
37	C	benzene	0.535	0.532	0.6	97	0.00
38	C	carbon tetrachloride	0.182	0.168	7.7	85	0.00
39		cyclohexane	0.268	0.290	-8.2	99	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Dibromomethane	0.175	0.165	5.7	88	0.00
41	C	1,2-dichloropropane	0.196	0.191	2.6	87	0.00
42		bromodichloromethane	0.213	0.248	-16.4	92	0.00
43	C	1,4-dioxane	0.116	0.119	-2.6	89	0.00
44	C	trichloroethene	0.240	0.239	0.4	91	0.00
45	C	2,2,4-trimethylpentane	0.831	0.882	-6.1	97	0.00
46		heptane	0.384	0.313	18.5	77	0.00
47	C	cis-1,3-dichloropropene	0.223	0.247	-10.8	93	0.00
48	C	4-methyl-2-pentanone	0.439	0.367	16.4	77	0.00
49		trans-1,3-dichloropropene	0.177	0.179	-1.1	86	0.00
50	C	1,1,2-trichloroethane	0.208	0.216	-3.8	92	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	96	0.00
52	C	toluene	6.751	5.324	21.1	87	0.00
54		2-hexanone	3.510	2.855	18.7	74	0.00
55		dibromochloromethane	2.123	2.453	-15.5	95	0.00
56	C	1,2-dibromoethane	2.551	2.866	-12.3	98	0.00
57	C	tetrachloroethene	2.392	2.280	4.7	93	0.00
58		1,1,1,2-tetrachloroethane	1.798	1.830	-1.8	89	0.00
59	C	chlorobenzene	4.353	4.685	-7.6	96	0.00
60	C	ethylbenzene	6.898	6.769	1.9	87	0.00
61	C	m+p-xylene	5.520	5.480	0.7	88	0.00
62	C	bromoform	1.625	2.049	-26.1	104	0.00
63	C	styrene	4.258	4.849	-13.9	97	0.00
64	C	1,1,2,2-tetrachloroethane	4.001	4.780	-19.5	103	0.00
65	C	o-xylene	5.572	5.678	-1.9	90	0.00
66		1,2,3-Trichloropropane	2.774	3.163	-14.0	100	0.00
68	C	isopropylbenzene	7.690	7.635	0.7	97	0.00
69		Bromobenzene	3.616	4.120	-13.9	98	0.00
70		4-ethyl toluene	6.990	7.751	-10.9	92	0.00
71		1,3,5-trimethylbenzene	6.094	6.801	-11.6	95	0.00
72		tert-butylbenzene	7.267	6.856	5.7	89	0.00
73		1,2,4-trimethylbenzene	6.204	6.826	-10.0	94	0.00
74	C	Benzyl Chloride	3.090	3.240	-4.9	91	0.00
75		1,3-dichlorobenzene	4.801	5.359	-11.6	96	0.00
76	C	1,4-dichlorobenzene	4.737	5.282	-11.5	96	0.00
77		sec-butylbenzene	10.045	9.793	2.5	95	0.00
78		p-isopropyltoluene	8.784	7.655	12.9	82	0.00
79		1,2-dichlorobenzene	4.616	5.041	-9.2	95	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	7.890	7.515	4.8	91	0.00
81	1,2-dibromo-3-chloropropane	1.272	1.495	-17.5	94	0.00
82 C	1,2,4-trichlorobenzene	2.871	2.787	2.9	82	0.00
83	naphthalene	8.598	8.770	-2.0	85	0.00
84	1,2,3-trichlorobenzene	2.637	2.784	-5.6	91	0.00
85 C	hexachlorobutadiene	2.216	2.108	4.9	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	121963	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.307	114	417488	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 100.00%			
51) chlorobenzene-D5	15.983	54	47850	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	3.952	41	32332M4	4.912	ppbV	
3) dichlorodifluoromethane	4.030	85	41697	4.197	ppbV	99
4) chloromethane	4.192	50	21362	3.895	ppbV	97
5) Freon-114	4.294	85	56325	5.126	ppbV	93
6) vinyl chloride	4.420	62	26375	5.085	ppbV	99
7) 1,3-butadiene	4.564	54	18510	4.593	ppbV	95
8) bromomethane	4.846	94	24797	5.122	ppbV	98
9) chloroethane	5.032	64	12947	5.116	ppbV	92
10) ethanol	5.152	31	74733	23.980	ppbV	88
11) vinyl bromide	5.410	106	21137	3.918	ppbV	99
12) acrolein	5.533	56	10057	4.652	ppbV	95
13) acetone	5.670	43	147859	21.089	ppbV	89
14) trichlorofluoromethane	5.867	101	38015	4.599	ppbV	99
15) isopropyl alcohol	5.940	45	98065	9.961	ppbV #	97
16) acrylonitrile	6.183	53	26370	5.364	ppbV	97
17) 1,1-dichloroethene	6.558	61	40254	4.820	ppbV	99
18) tertiary butyl alcohol	6.594	59	43439	4.452	ppbV	97
19) methylene chloride	6.702	49	35146	4.974	ppbV	97
20) 3-chloropropene	6.828	41	41867	4.094	ppbV #	95
21) carbon disulfide	7.008	76	87299	4.753	ppbV #	92
22) Freon 113	7.002	101	58567	4.694	ppbV	99
23) trans-1,2-dichloroethene	7.742	61	41014	4.544	ppbV	98
24) 1,1-dichloroethane	7.967	63	52000	4.642	ppbV	99
25) MTBE	8.025	73	57319	4.465	ppbV	93
26) vinyl acetate	8.142	43	54574	3.618	ppbV #	95
27) 2-butanone	8.392	43	60251	3.783	ppbV #	92
28) cis-1,2-dichloroethene	8.908	61	40614	4.975	ppbV	99
29) Ethyl Acetate	9.167	61	11972	4.888	ppbV	66
30) chloroform	9.242	83	50829	4.983	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	9.675	42	37905	3.860	ppbV		91
32) 1,2-dichloroethane	10.075	62	23787	3.966	ppbV	#	91
34) hexane	9.158	57	55255	5.170	ppbV	#	66
36) 1,1,1-trichloroethane	10.367	97	34700	4.245	ppbV		91
37) benzene	10.887	78	110974	4.968	ppbV		99
38) carbon tetrachloride	11.060	117	35101	4.624	ppbV		97
39) cyclohexane	11.200	56	60537	5.415	ppbV	#	89
40) Dibromomethane	11.793	93	34513	4.735	ppbV	#	94
41) 1,2-dichloropropane	11.827	63	39922	4.886	ppbV		97
42) bromodichloromethane	12.053	83	51801	5.835	ppbV		98
43) 1,4-dioxane	12.087	88	24921	5.146	ppbV		96
44) trichloroethene	12.107	130	49906	4.988	ppbV		96
45) 2,2,4-trimethylpentane	12.153	57	184113	5.306	ppbV	#	89
46) heptane	12.460	43	65295	4.076	ppbV	#	86
47) cis-1,3-dichloropropene	13.108	75	51644	5.552	ppbV		91
48) 4-methyl-2-pentanone	13.142	43	76608	4.182	ppbV	#	88
49) trans-1,3-dichloropropene	13.733	75	37354	5.052	ppbV		93
50) 1,1,2-trichloroethane	13.933	97	45105	5.194	ppbV		91
52) toluene	14.242	91	127379	3.943	ppbV		99
54) 2-hexanone	14.517	43	68304	4.067	ppbV		87
55) dibromochloromethane	14.692	129	58693	5.778	ppbV		99
56) 1,2-dibromoethane	14.933	107	68580	5.619	ppbV		99
57) tetrachloroethene	15.392	166	54558	4.766	ppbV		98
58) 1,1,1,2-tetrachloroethane	16.008	131	43773	5.087	ppbV		99
59) chlorobenzene	16.025	112	112088	5.381	ppbV		95
60) ethylbenzene	16.358	91	161947	4.906	ppbV		94
61) m+p-xylene	16.517	91	262236	9.928	ppbV		92
62) bromoform	16.592	173	49017	6.306	ppbV		99
63) styrene	16.842	104	116018	5.695	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.933	83	114359	5.973	ppbV		97
65) o-xylene	16.933	91	135853	5.095	ppbV		94
66) 1,2,3-Trichloropropane	17.050	75	75676	5.702	ppbV	#	93
68) isopropylbenzene	17.450	105	182663	4.964	ppbV		97
69) Bromobenzene	17.533	77	98564	5.697	ppbV		97
70) 4-ethyl toluene	18.017	105	185449	5.545	ppbV		99
71) 1,3,5-trimethylbenzene	18.075	105	162709	5.580	ppbV		96
72) tert-butylbenzene	18.425	119	164020	4.717	ppbV		98
73) 1,2,4-trimethylbenzene	18.425	105	163323	5.501	ppbV		96
74) Benzyl Chloride	18.550	91	77528	5.243	ppbV		94
75) 1,3-dichlorobenzene	18.567	146	128219	5.582	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

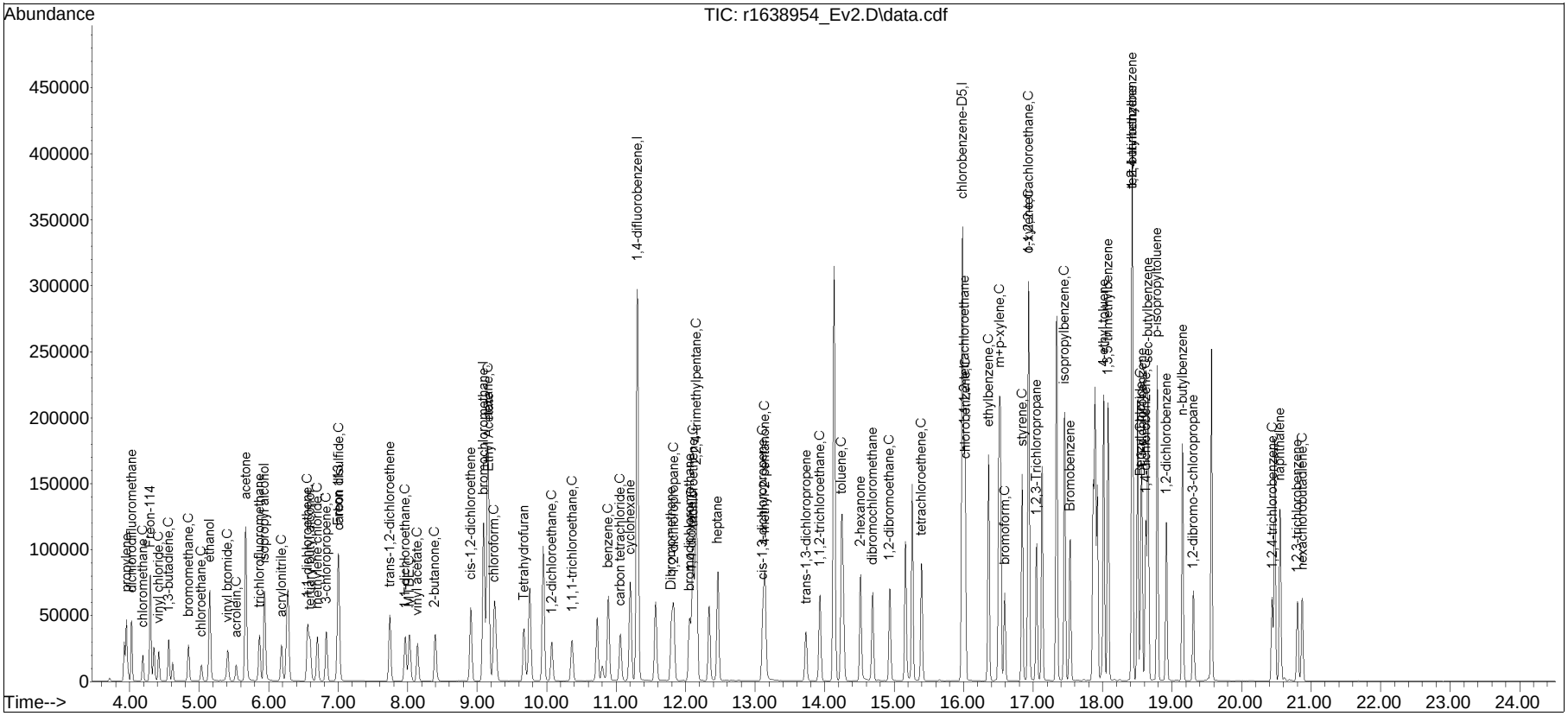
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	18.625	146	126373	5.575	ppbV	94
77) sec-butylbenzene	18.650	105	234293	4.874	ppbV	98
78) p-isopropyltoluene	18.783	119	183152	4.358	ppbV	95
79) 1,2-dichlorobenzene	18.917	146	120615	5.461	ppbV	99
80) n-butylbenzene	19.150	91	179807	4.763	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.300	75	35771	5.875	ppbV	91
82) 1,2,4-trichlorobenzene	20.442	180	66677	4.854	ppbV	97
83) naphthalene	20.550	128	209823	5.100	ppbV	100
84) 1,2,3-trichlorobenzene	20.800	180	66616	5.278	ppbV	99
85) hexachlorobutadiene	20.875	225	50440	4.757	ppbV	96

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

Sub List : Default-LCS-AP2 - All compounds listed2SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-2
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

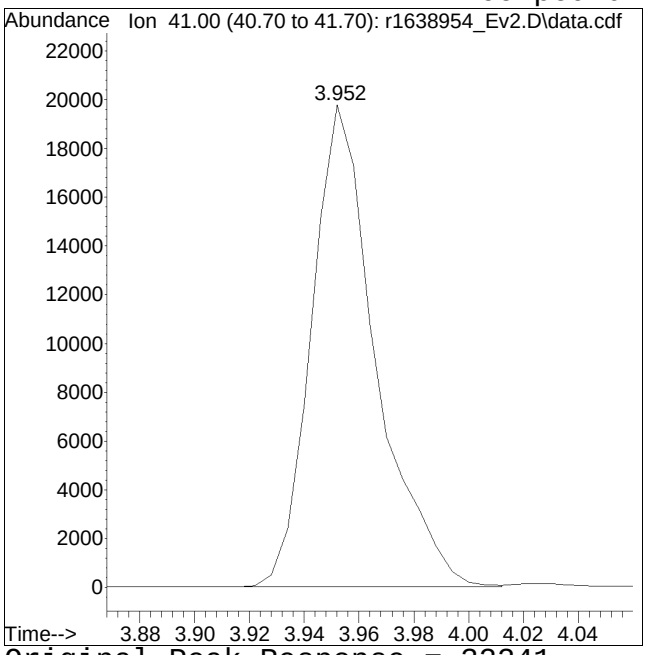
Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration



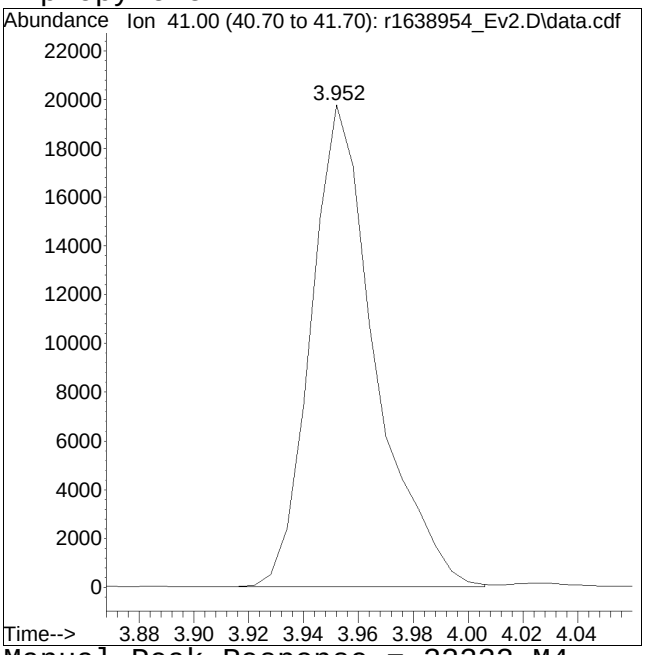
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638954_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:1: 4 Instrument :
Sample : WG1818794-2 Quant Date : 8/22/2023 1:13 pm

Compound #2: propylene



Original Peak Response = 32241



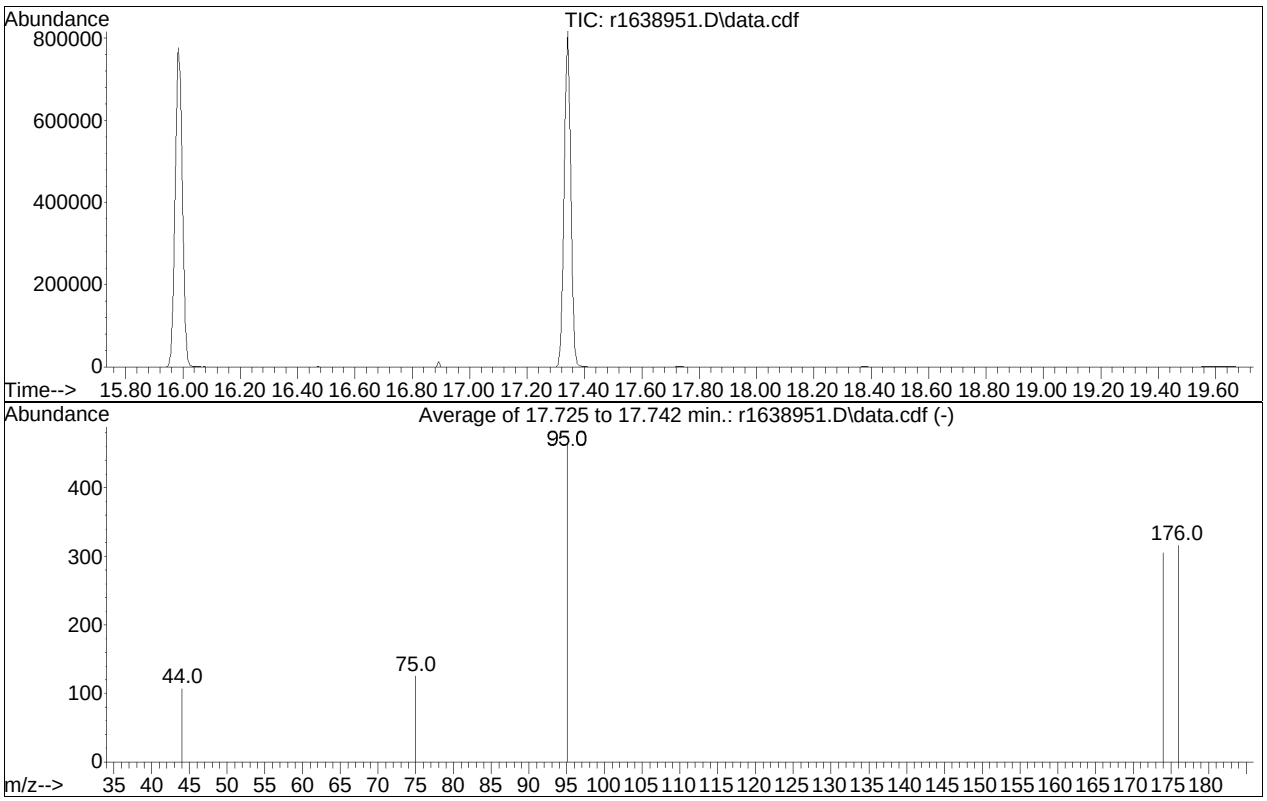
Manual Peak Response = 32332 M4

M4 = Poor automated baseline construction.

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638951.D
Acq On : 22 Aug 2023 9:50 AM
Operator : AIRLAB16:APR
Sample : WG1818794-1
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Wed Jul 26 09:32:46 2023



AutoFind: Scans 2101, 2102, 2103; Background Corrected with Scan 2098

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	0.0	0	FAIL*
75	95	30	66	27.0	126	FAIL*
95	95	100	100	100.0	466	PASS
96	95	5	9	0.0	0	FAIL*
173	174	0.00	2	0.0	0	PASS
174	95	50	120	65.5	305	PASS
175	174	4	9	0.0	0	FAIL*
176	174	93	101	103.6	316	FAIL*
177	176	5	9	0.0	0	FAIL*

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638957_Ev2.D
Acq On : 22 Aug 2023 2:48 PM
Operator : AIRLAB16:APR
Sample : WG1818794-4,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:45:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

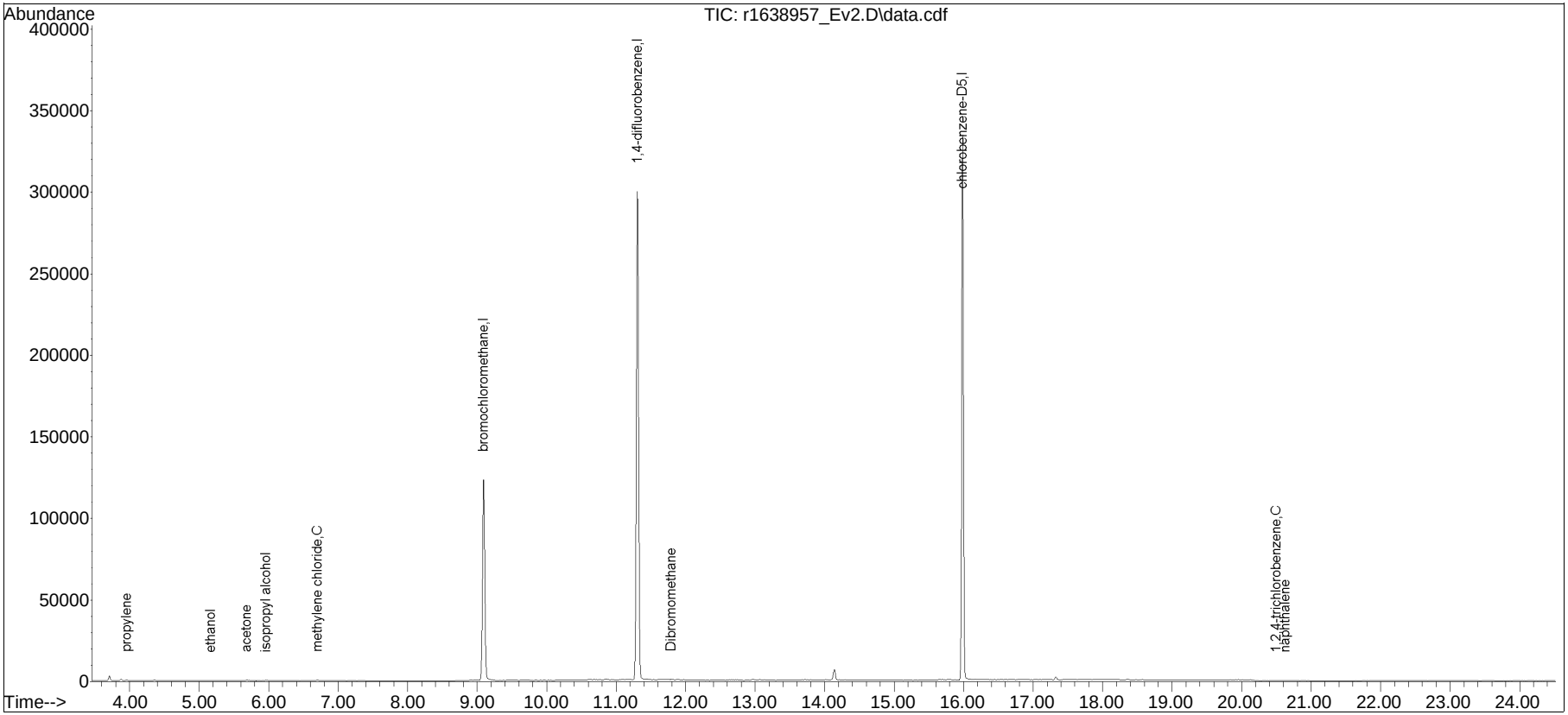
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	126915	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 104.06%			
33) 1,4-difluorobenzene	11.307	114	415026	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 99.41%			
51) chlorobenzene-D5	15.983	54	48539	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 101.44%			
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	15.392		0	N.D.		

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

Sub List : Default-LCS-AP2 - All compounds listed2SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638957_Ev2.D
Acq On : 22 Aug 2023 2:48 PM
Operator : AIRLAB16:APR
Sample : WG1818794-4,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:45:19 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab16	QMethod	: TSIM16_230725.M
Data File	: r1638957_Ev2.D	Operator	: AIRLAB16:APR
Date Inj'd	: 8/22/2020 0:2: 8	Instrument	:
Sample	: WG1818794-4,3,250,250	Quant Date	: 8/23/2023 6:45 am

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-3,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	98	0.00
2		propylene	5.000	4.912	1.8	97	0.00
3		dichlorodifluoromethane	5.000	4.197	16.1	77	0.00
4	C	chloromethane	5.000	3.895	22.1	75	0.00
5		Freon-114	5.000	5.126	-2.5	90	0.00
6	C	vinyl chloride	5.000	5.085	-1.7	90	0.00
7	C	1,3-butadiene	5.000	4.593	8.1	84	0.00
8	C	bromomethane	5.000	5.122	-2.4	90	0.00
9	C	chloroethane	5.000	5.116	-2.3	94	0.00
10		ethanol	25.000	23.980	4.1	111	0.00
11	C	vinyl bromide	5.000	3.918	21.6	74	0.00
12	C	acrolein	5.000	4.652	7.0	89	0.00
13		acetone	25.000	21.089	15.6	81	0.00
14		trichlorofluoromethane	5.000	4.599	8.0	97	0.00
15		isopropyl alcohol	12.500	9.961	20.3	77	0.00
16	C	acrylonitrile	5.000	5.364	-7.3	103	0.00
17	C	1,1-dichloroethene	5.000	4.820	3.6	86	0.00
18		tertiary butyl alcohol	5.000	4.452	11.0	83	0.00
19	C	methylene chloride	5.000	4.974	0.5	98	0.00
20	C	3-chloropropene	5.000	4.094	18.1	78	0.00
21	C	carbon disulfide	5.000	4.753	4.9	91	0.00
22		Freon 113	5.000	4.694	6.1	90	0.00
23		trans-1,2-dichloroethene	5.000	4.544	9.1	80	0.00
24	C	1,1-dichloroethane	5.000	4.642	7.2	82	0.00
25	C	MTBE	5.000	4.465	10.7	77	0.00
26	C	vinyl acetate	5.000	3.618	27.6	68	0.00
27	C	2-butanone	5.000	3.783	24.3	73	0.00
28		cis-1,2-dichloroethene	5.000	4.975	0.5	87	0.00
29		Ethyl Acetate	5.000	4.888	2.2	91	0.00
30	C	chloroform	5.000	4.983	0.3	91	0.00
31		Tetrahydrofuran	5.000	3.860	22.8	73	0.00
32	C	1,2-dichloroethane	5.000	3.966	20.7	74	0.00
33	I	1,4-difluorobenzene	10.000	10.000	0.0	95	0.00
34	C	hexane	5.000	5.170	-3.4	95	0.00
36	C	1,1,1-trichloroethane	5.000	4.245	15.1	74	0.00
37	C	benzene	5.000	4.968	0.6	97	0.00
38	C	carbon tetrachloride	5.000	4.624	7.5	85	0.00
39		cyclohexane	5.000	5.415	-8.3	99	0.00

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-3,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		Dibromomethane	5.000	4.735	5.3	88	0.00
41	C	1,2-dichloropropane	5.000	4.886	2.3	87	0.00
42		bromodichloromethane	5.000	5.835	-16.7	92	0.00
43	C	1,4-dioxane	5.000	5.146	-2.9	89	0.00
44	C	trichloroethene	5.000	4.988	0.2	91	0.00
45	C	2,2,4-trimethylpentane	5.000	5.306	-6.1	97	0.00
46		heptane	5.000	4.076	18.5	77	0.00
47	C	cis-1,3-dichloropropene	5.000	5.552	-11.0	93	0.00
48	C	4-methyl-2-pentanone	5.000	4.182	16.4	77	0.00
49		trans-1,3-dichloropropene	5.000	5.052	-1.0	86	0.00
50	C	1,1,2-trichloroethane	5.000	5.194	-3.9	92	0.00
51	I	chlorobenzene-D5	10.000	10.000	0.0	96	0.00
52	C	toluene	5.000	3.943	21.1	87	0.00
54		2-hexanone	5.000	4.067	18.7	74	0.00
55		dibromochloromethane	5.000	5.778	-15.6	95	0.00
56	C	1,2-dibromoethane	5.000	5.619	-12.4	98	0.00
57	C	tetrachloroethene	5.000	4.766	4.7	93	0.00
58		1,1,1,2-tetrachloroethane	5.000	5.087	-1.7	89	0.00
59	C	chlorobenzene	5.000	5.381	-7.6	96	0.00
60	C	ethylbenzene	5.000	4.906	1.9	87	0.00
61	C	m+p-xylene	10.000	9.928	0.7	88	0.00
62	C	bromoform	5.000	6.306	-26.1	104	0.00
63	C	styrene	5.000	5.695	-13.9	97	0.00
64	C	1,1,2,2-tetrachloroethane	5.000	5.973	-19.5	103	0.00
65	C	o-xylene	5.000	5.095	-1.9	90	0.00
66		1,2,3-Trichloropropane	5.000	5.702	-14.0	100	0.00
68	C	isopropylbenzene	5.000	4.964	0.7	97	0.00
69		Bromobenzene	5.000	5.697	-13.9	98	0.00
70		4-ethyl toluene	5.000	5.545	-10.9	92	0.00
71		1,3,5-trimethylbenzene	5.000	5.580	-11.6	95	0.00
72		tert-butylbenzene	5.000	4.717	5.7	89	0.00
73		1,2,4-trimethylbenzene	5.000	5.501	-10.0	94	0.00
74	C	Benzyl Chloride	5.000	5.243	-4.9	91	0.00
75		1,3-dichlorobenzene	5.000	5.582	-11.6	96	0.00
76	C	1,4-dichlorobenzene	5.000	5.575	-11.5	96	0.00
77		sec-butylbenzene	5.000	4.874	2.5	95	0.00
78		p-isopropyltoluene	5.000	4.358	12.8	82	0.00
79		1,2-dichlorobenzene	5.000	5.461	-9.2	95	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-3,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.763	4.7	91	0.00
81	1,2-dibromo-3-chloropropane	5.000	5.875	-17.5	94	0.00
82 C	1,2,4-trichlorobenzene	5.000	4.854	2.9	82	0.00
83	naphthalene	5.000	5.100	-2.0	85	0.00
84	1,2,3-trichlorobenzene	5.000	5.278	-5.6	91	0.00
85 C	hexachlorobutadiene	5.000	4.757	4.9	83	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-3,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

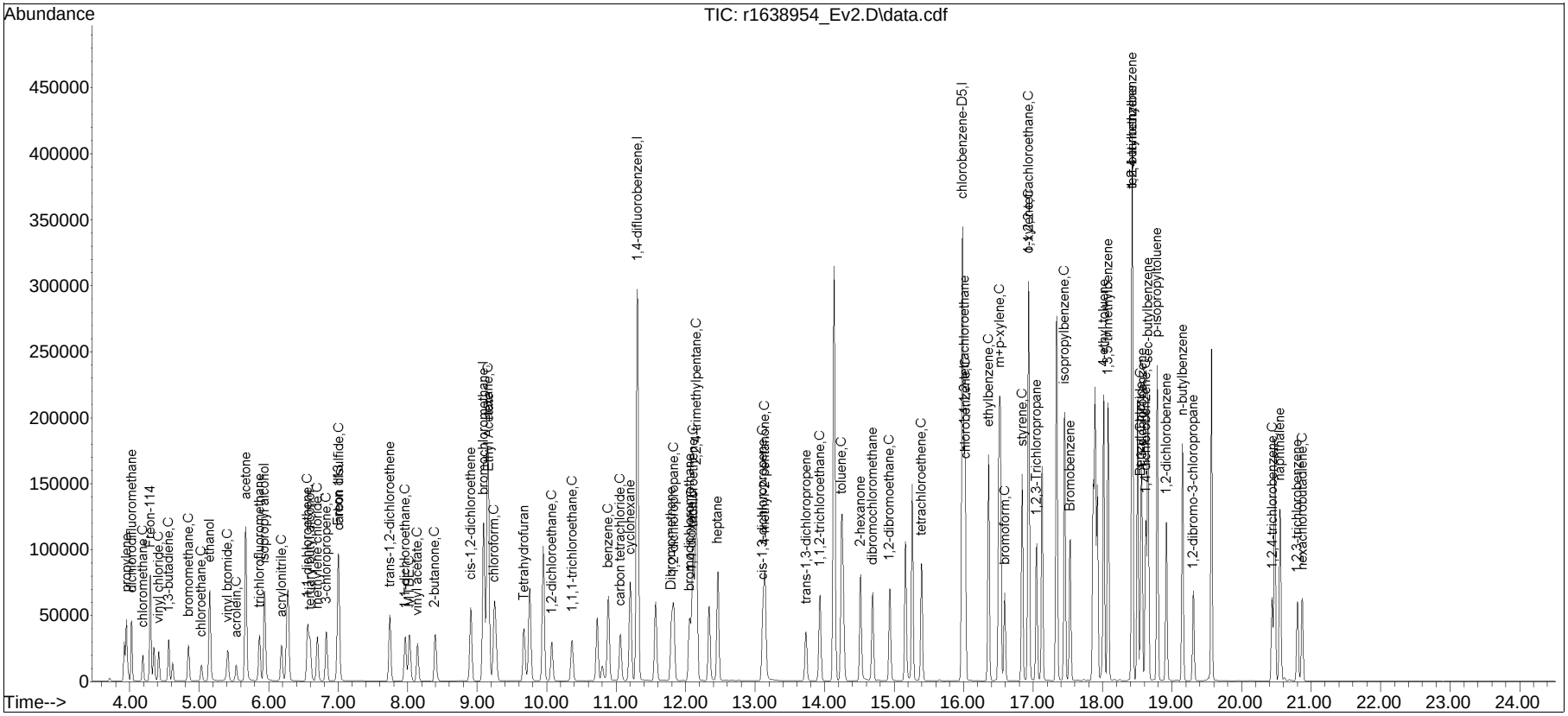
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	121963	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.307	114	417488	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 100.00%			
51) chlorobenzene-D5	15.983	54	47850	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.420	62	26375	5.085	ppbV	99
17) 1,1-dichloroethene	6.558	61	40254	4.820	ppbV	99
28) cis-1,2-dichloroethene	8.908	61	40614	4.975	ppbV	99
36) 1,1,1-trichloroethane	10.367	97	34700	4.245	ppbV	91
38) carbon tetrachloride	11.060	117	35101	4.624	ppbV	97
44) trichloroethene	12.107	130	49906	4.988	ppbV	96
57) tetrachloroethene	15.392	166	54558	4.766	ppbV	98

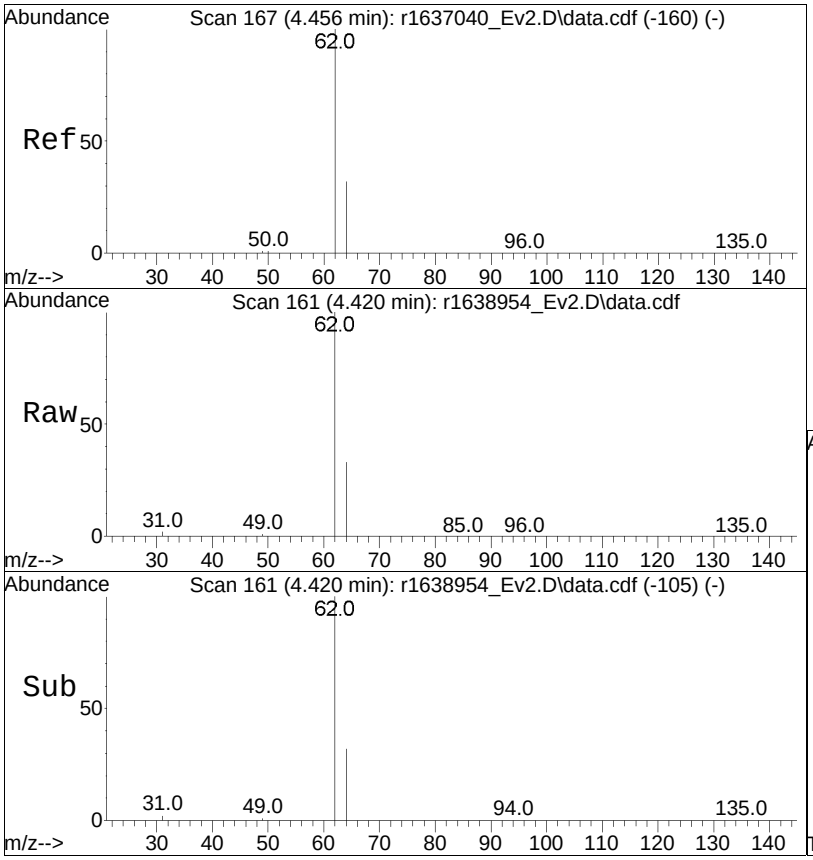
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed2SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638954_Ev2.D
Acq On : 22 Aug 2023 11:54 AM
Operator : AIRLAB16:APR
Sample : WG1818794-3,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 22 13:13:41 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

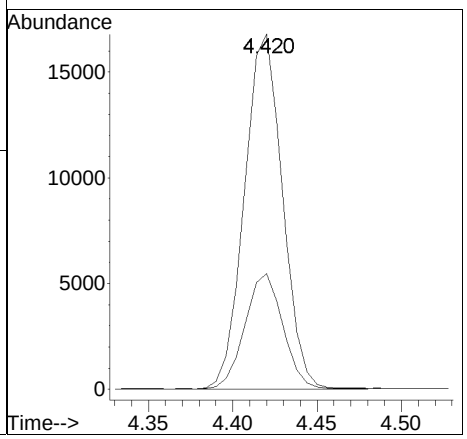


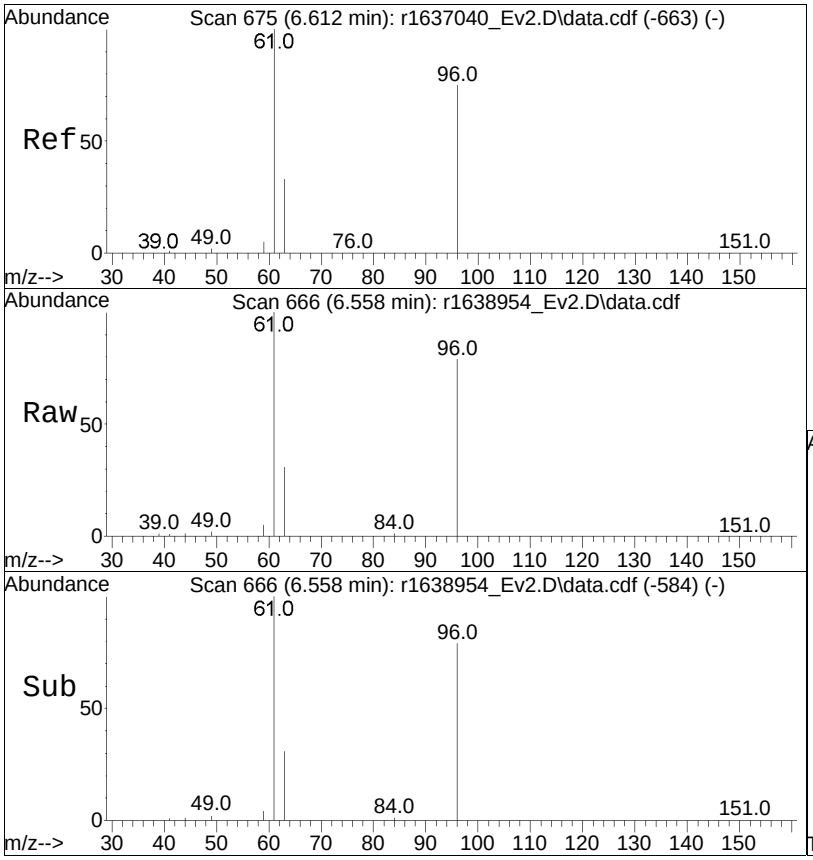


#6
vinyl chloride
Concen: 5.08 ppbV
RT: 4.420 min Scan# 161
Delta R.T. 0.006 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion: 62 Resp: 26375

Ion	Ratio	Lower	Upper
62	100		
64	32.6	26.5	39.7

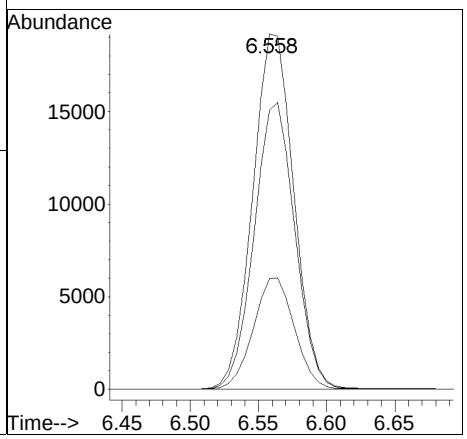


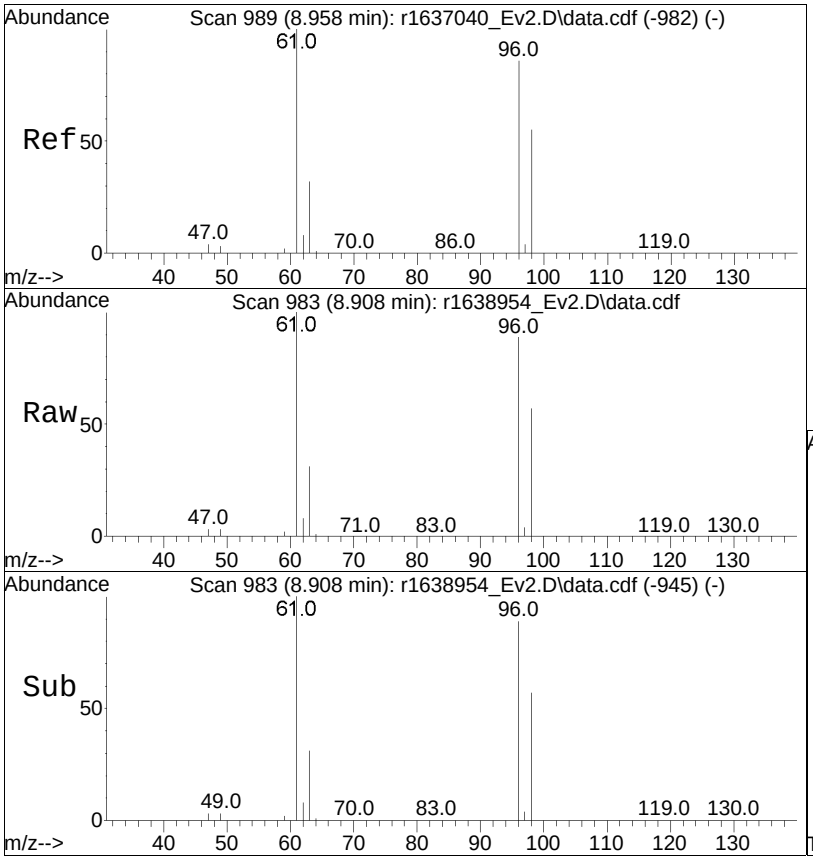


#17
1,1-dichloroethene
Concen: 4.82 ppbV
RT: 6.558 min Scan# 666
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion: 61 Resp: 40254

Ion	Ratio	Lower	Upper
61	100		
96	78.6	62.1	93.1
63	31.1	26.0	39.0

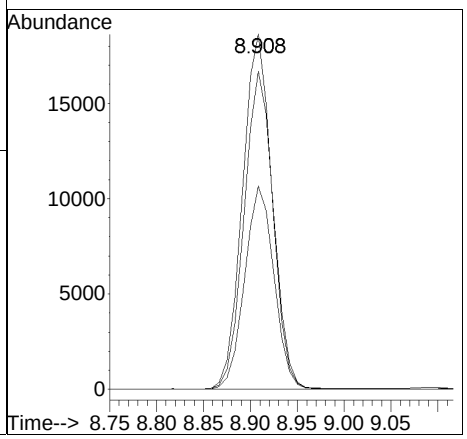


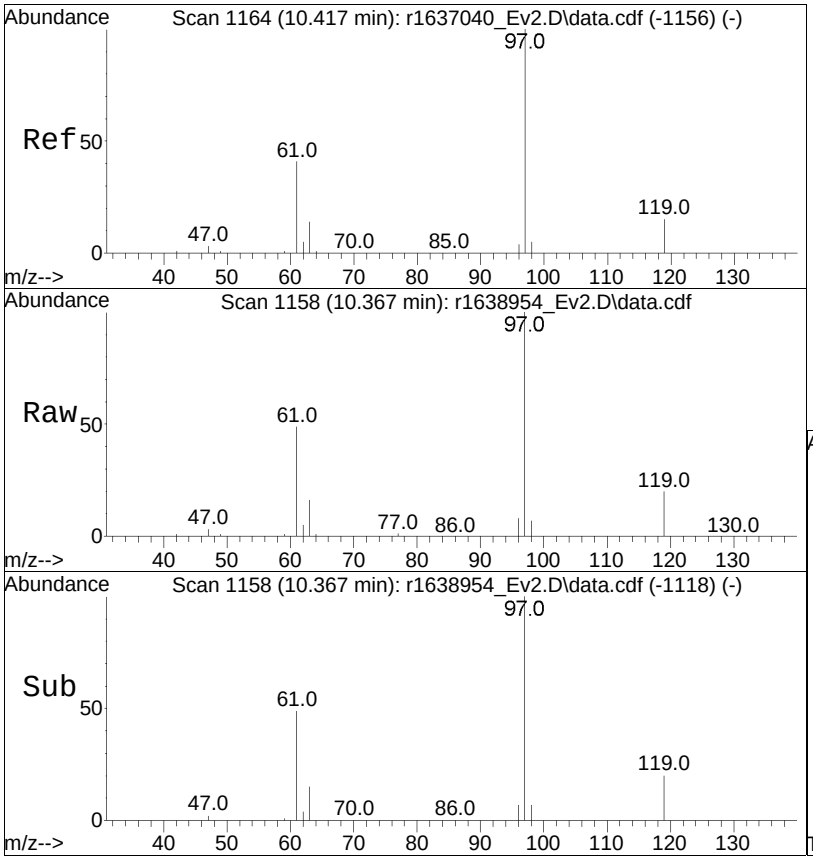


#28
cis-1,2-dichloroethene
Concen: 4.97 ppbV
RT: 8.908 min Scan# 983
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion: 61 Resp: 40614

Ion	Ratio	Lower	Upper
61	100		
96	89.5	71.1	106.7
98	57.2	45.0	67.4

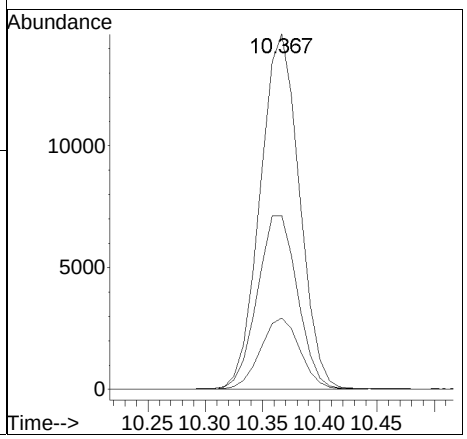


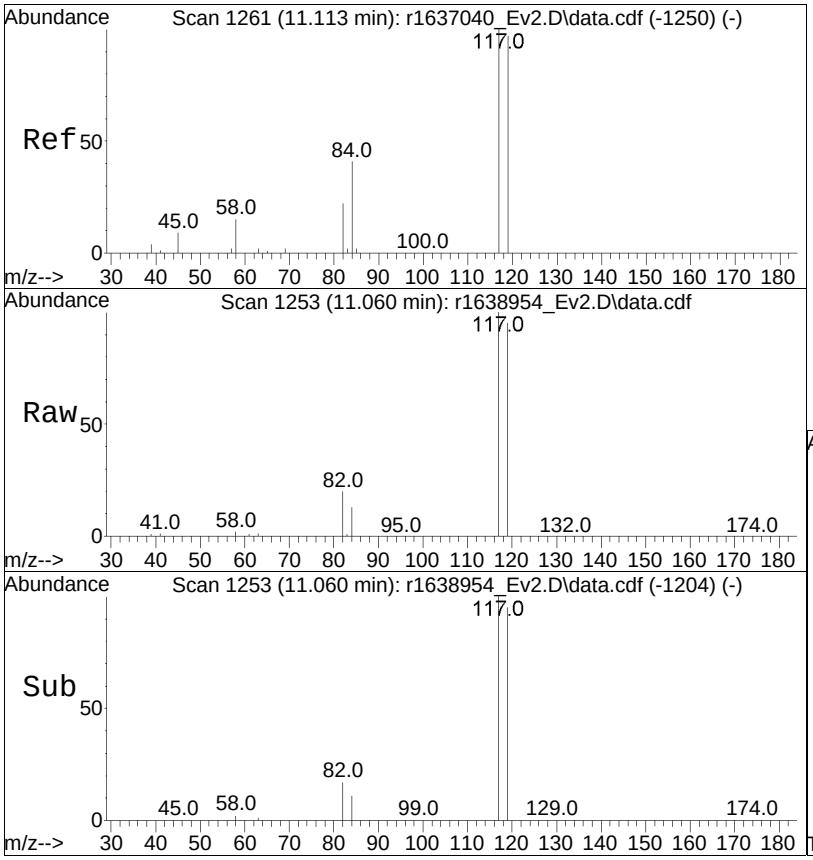


#36
1,1,1-trichloroethane
Concen: 4.25 ppbV
RT: 10.367 min Scan# 1158
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion: 97 Resp: 34700

Ion	Ratio	Lower	Upper
97	100		
61	48.9	34.2	51.2
119	20.1	13.4	20.2

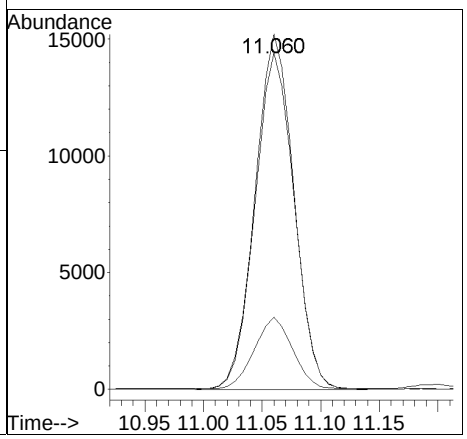


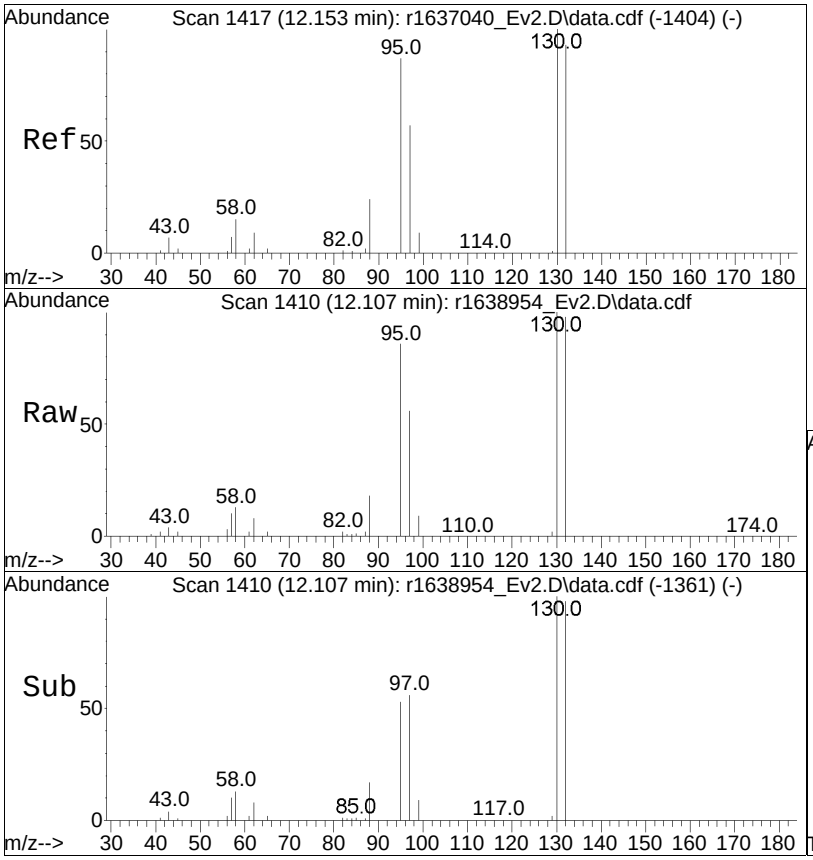


#38
carbon tetrachloride
Concen: 4.62 ppbV
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion:117 Resp: 35101

Ion	Ratio	Lower	Upper
117	100		
119	94.7	78.1	117.1
82	20.3	15.8	23.8

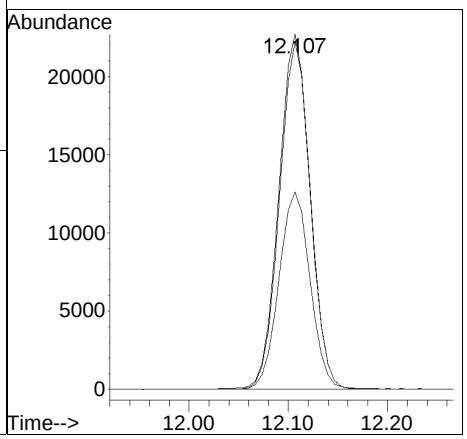


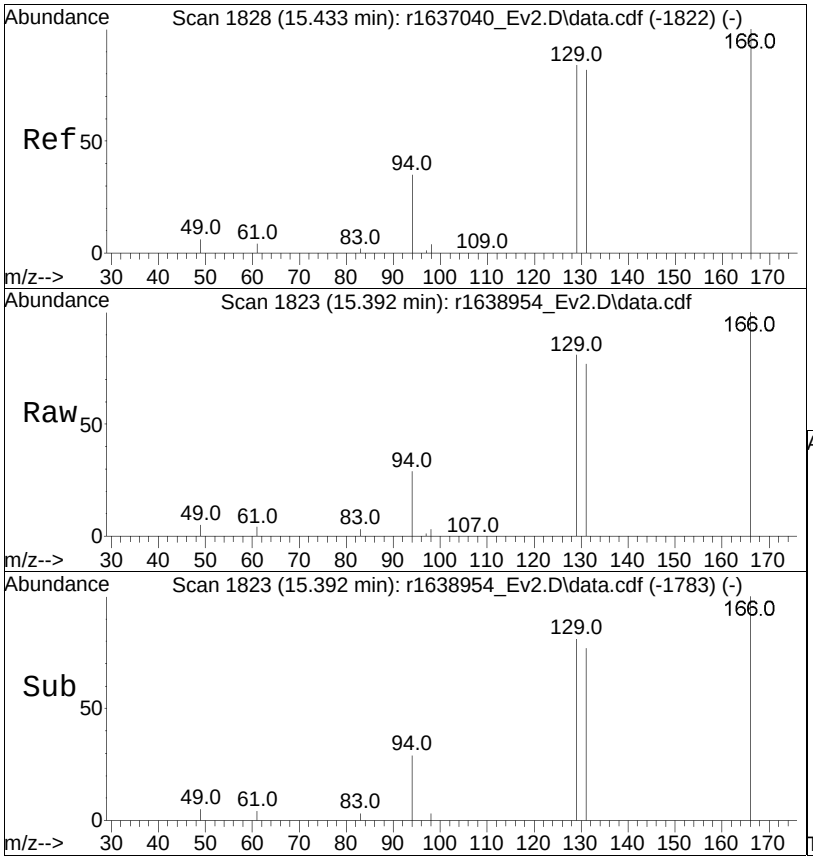


#44
trichloroethene
Concen: 4.99 ppbV
RT: 12.107 min Scan# 1410
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion:130 Resp: 49906

Ion	Ratio	Lower	Upper
130	100		
132	97.9	74.7	112.1
97	55.5	46.2	69.4

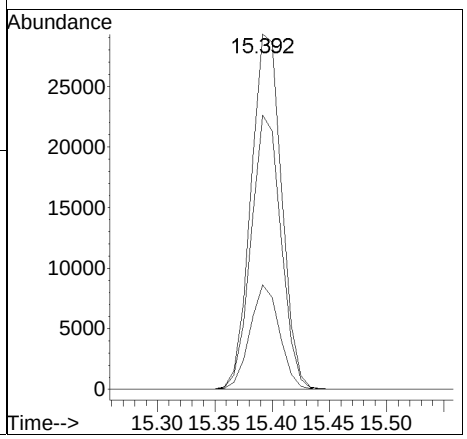




#57
tetrachloroethene
Concen: 4.77 ppbV
RT: 15.392 min Scan# 1823
Delta R.T. 0.000 min
Lab File: r1638954_Ev2.D
Acq: 22 Aug 2023 11:54 AM

Tgt Ion:166 Resp: 54558

Ion	Ratio	Lower	Upper
166	100		
131	77.2	61.9	92.9
94	29.4	26.6	39.8



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638965_Ev2.D
Acq On : 22 Aug 2023 9:09 PM
Operator : AIRLAB16:APR
Sample : WG1818794-5,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:29 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D
Sub List : 7-NY-SIM - .

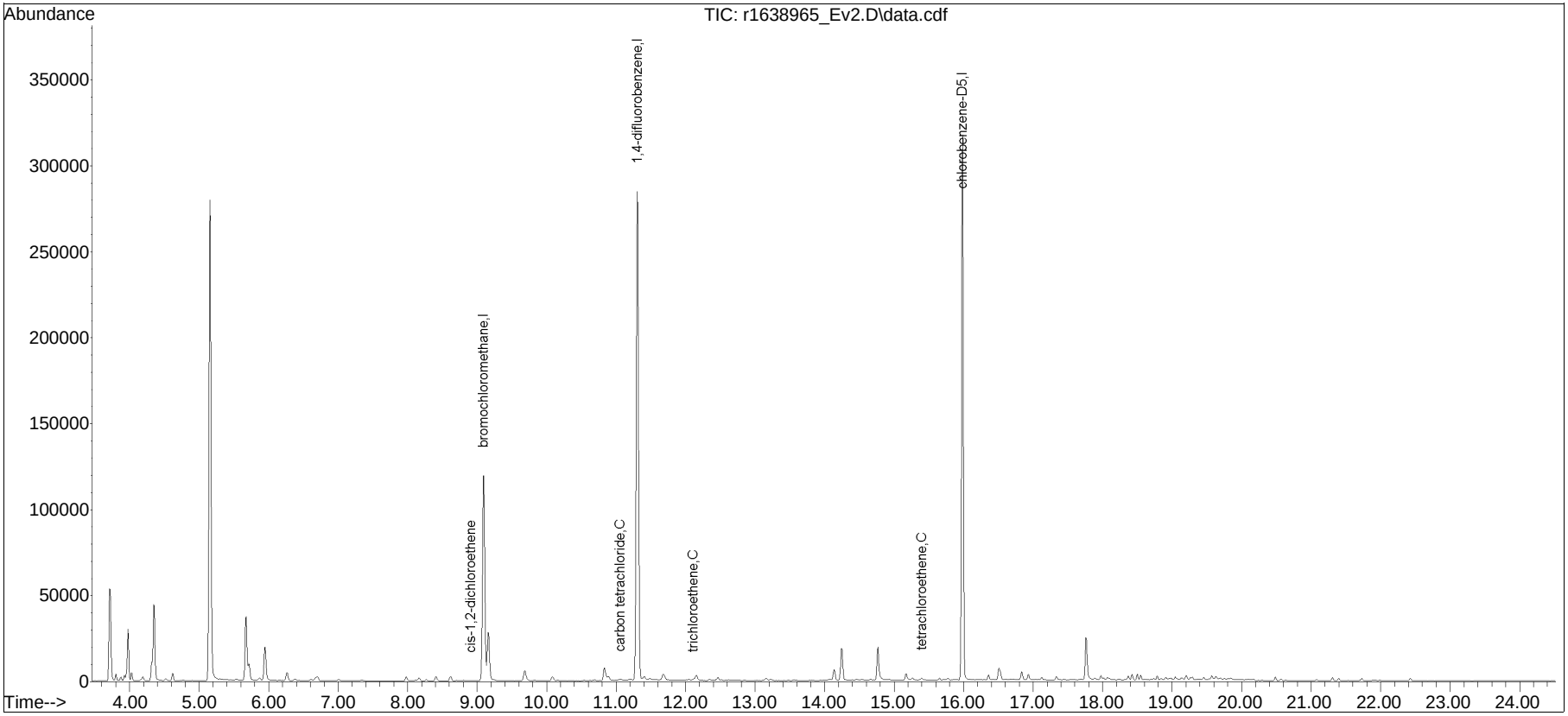
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	9.092	49	125784	10.000	ppbV	0.00
Standard Area = 121963			Recovery = 103.13%			
33) 1,4-difluorobenzene	11.307	114	394570	10.000	ppbV	0.00
Standard Area = 417488			Recovery = 94.51%			
51) chlorobenzene-D5	15.983	54	46949	10.000	ppbV	0.00
Standard Area = 47850			Recovery = 98.12%			
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	8.908	61	126	0.015	ppbV	94
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	11.060	117	415M4	0.058	ppbV	
44) trichloroethene	12.107	130	146M1	0.015	ppbV	
57) tetrachloroethene	15.400	166	768	0.068	ppbV	99

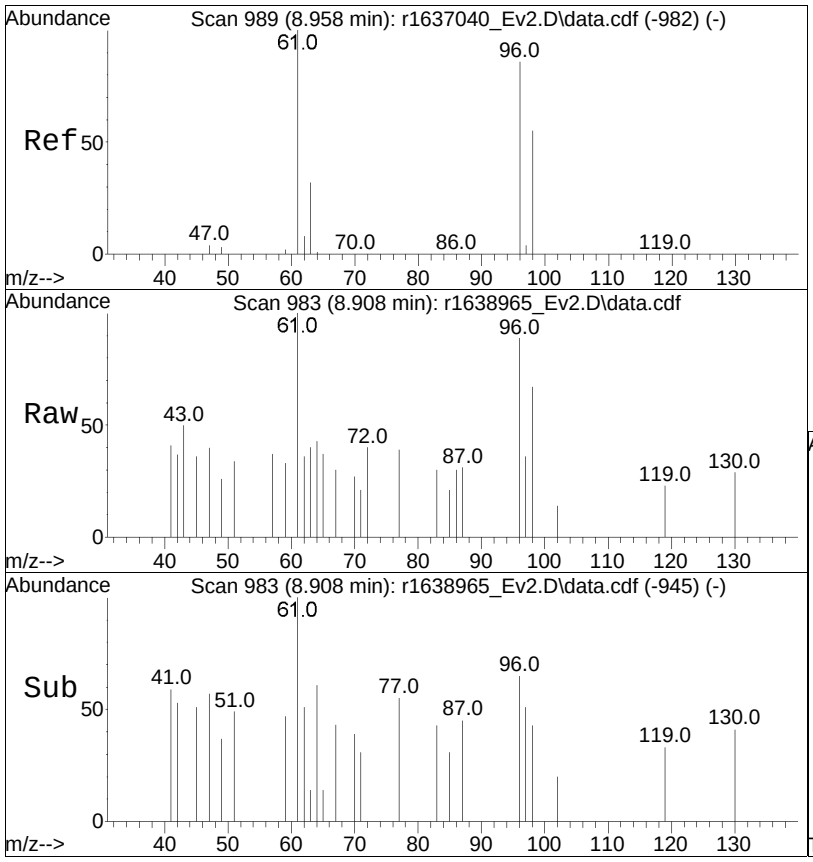
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab16\2023\08\0822SIM\r1638954_Ev2.D

Data Path : O:\Forensics\Data\Airlab16\2023\08\0822SIM\
Data File : r1638965_Ev2.D
Acq On : 22 Aug 2023 9:09 PM
Operator : AIRLAB16:APR
Sample : WG1818794-5,3,250,250
Misc : WG1818794,ICAL20200
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Aug 23 06:47:29 2023
Quant Method : O:\Forensics\Data\Airlab16\2023\08\0822SIM\TSIM16_230725.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Wed Jul 26 09:32:46 2023
Response via : Initial Calibration

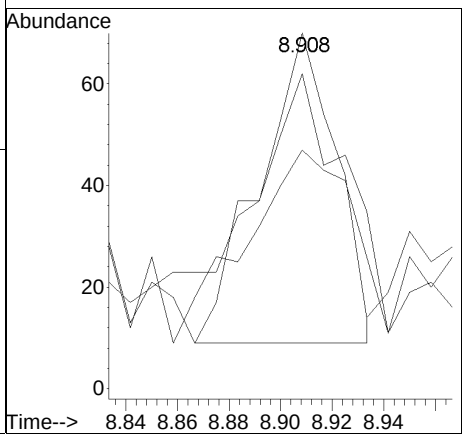


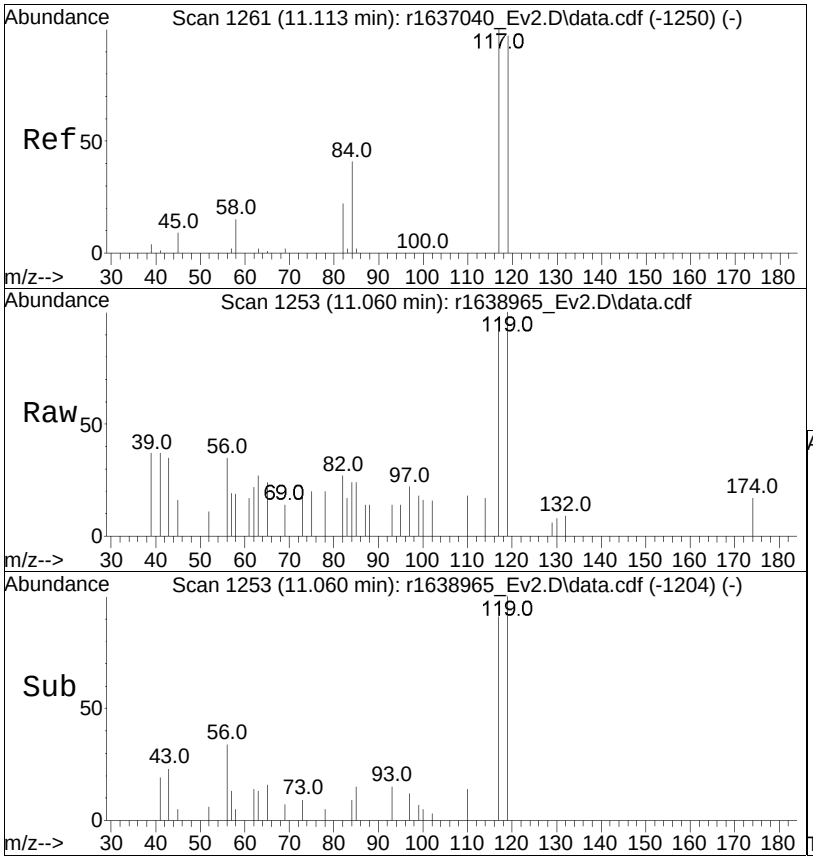


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 8.908 min Scan# 983
Delta R.T. 0.000 min
Lab File: r1638965_Ev2.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion: 61 Resp: 126

Ion	Ratio	Lower	Upper
61	100		
96	88.6	71.1	106.7
98	67.1	45.0	67.4

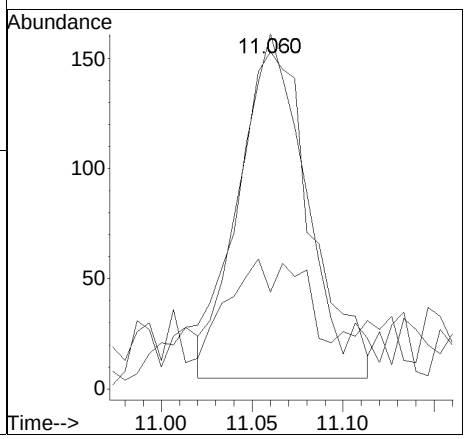


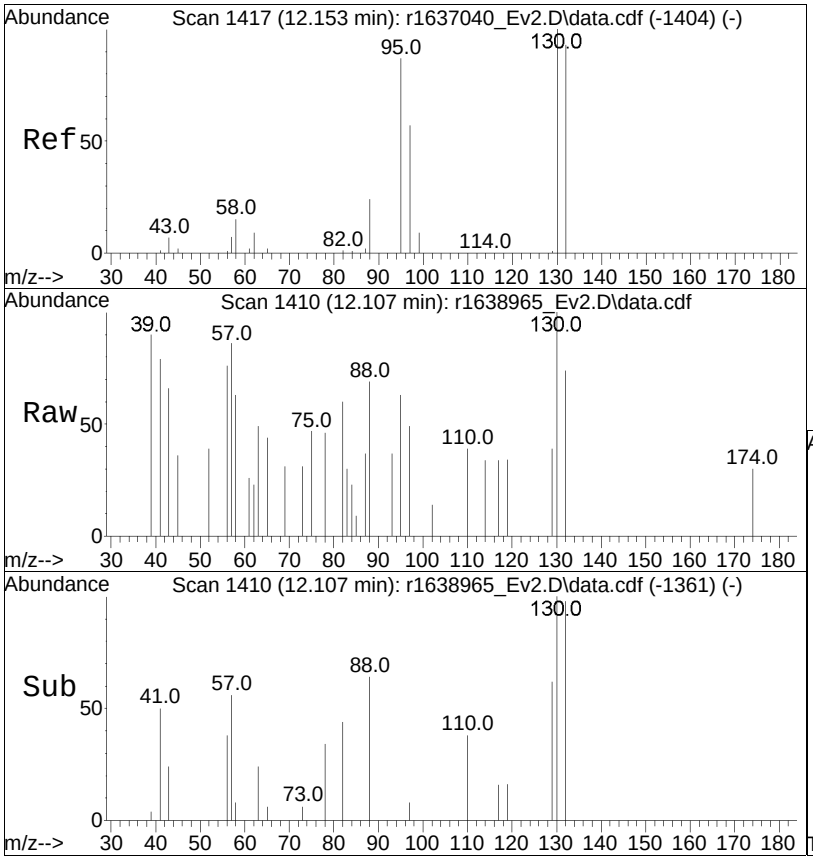


#38
carbon tetrachloride
Concen: 0.06 ppbV m
RT: 11.060 min Scan# 1253
Delta R.T. 0.000 min
Lab File: r1638965_Ev2.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:117 Resp: 415

Ion	Ratio	Lower	Upper
117	100		
119	105.2	78.1	117.1
82	28.8	15.8	23.8#

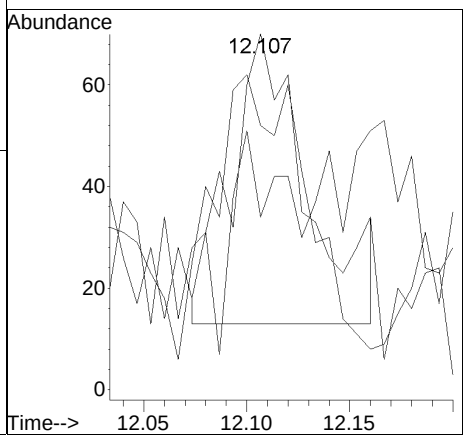


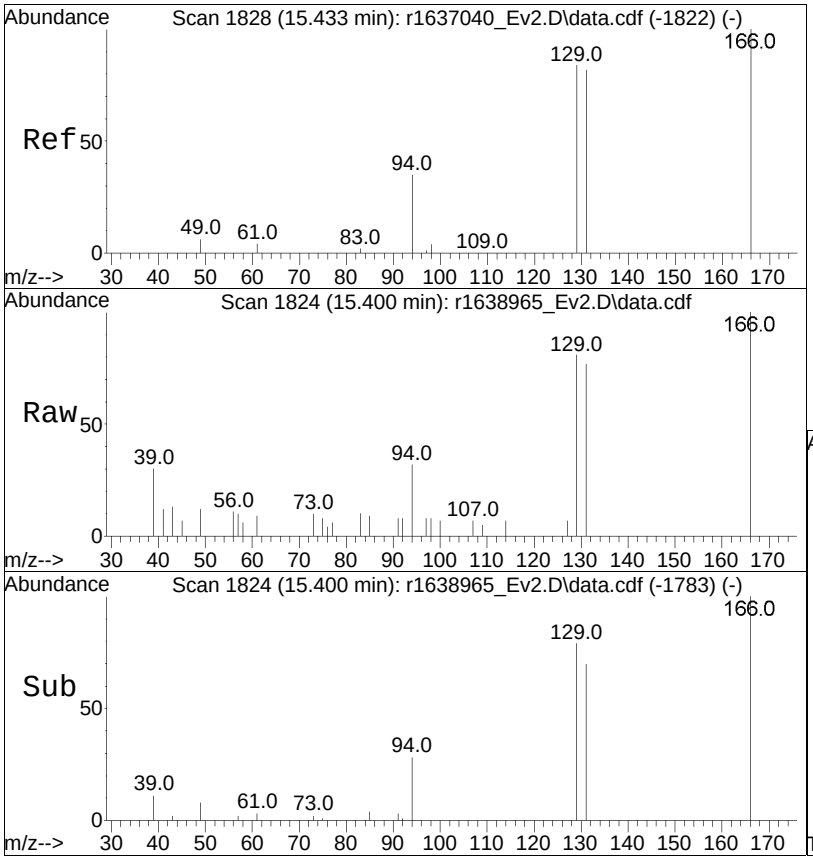


#44
trichloroethene
Concen: 0.02 ppbV m
RT: 12.107 min Scan# 1410
Delta R.T. 0.000 min
Lab File: r1638965_Ev2.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:130 Resp: 146

Ion	Ratio	Lower	Upper
130	100		
132	74.3	74.7	112.1#
97	48.6	46.2	69.4

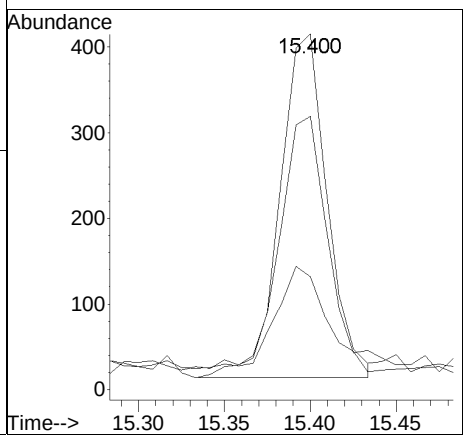




#57
tetrachloroethene
Concen: 0.07 ppbV
RT: 15.400 min Scan# 1824
Delta R.T. 0.008 min
Lab File: r1638965_Ev2.D
Acq: 22 Aug 2023 9:09 PM

Tgt Ion:166 Resp: 768

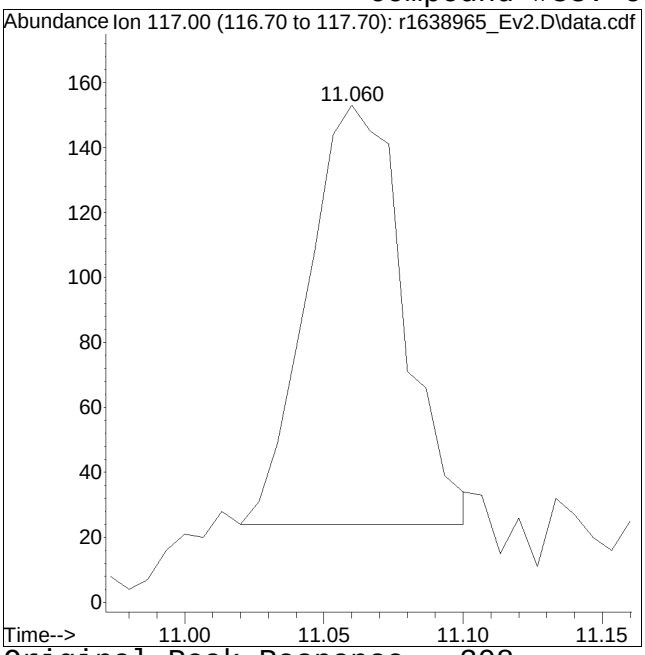
Ion	Ratio	Lower	Upper
166	100		
131	76.9	61.9	92.9
94	31.8	26.6	39.8



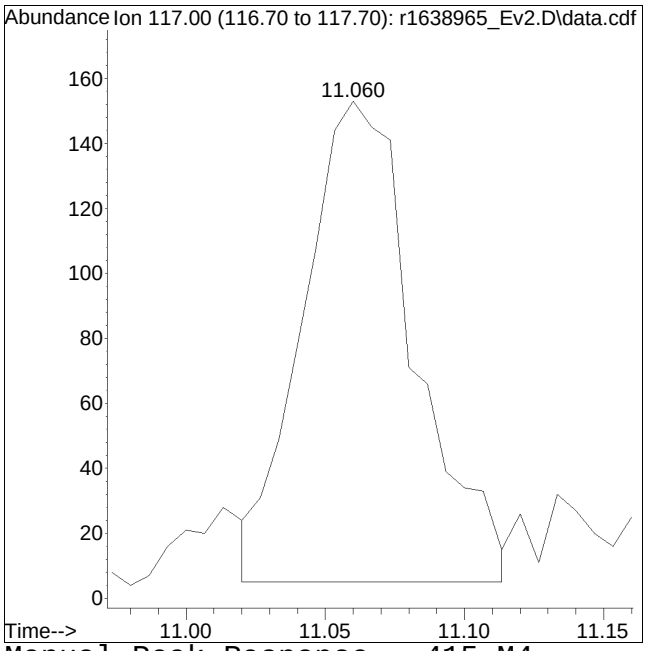
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638965_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : WG1818794-5,3,250,250 Quant Date : 8/23/2023 6:47 am

Compound #38: carbon tetrachloride



Original Peak Response = 308



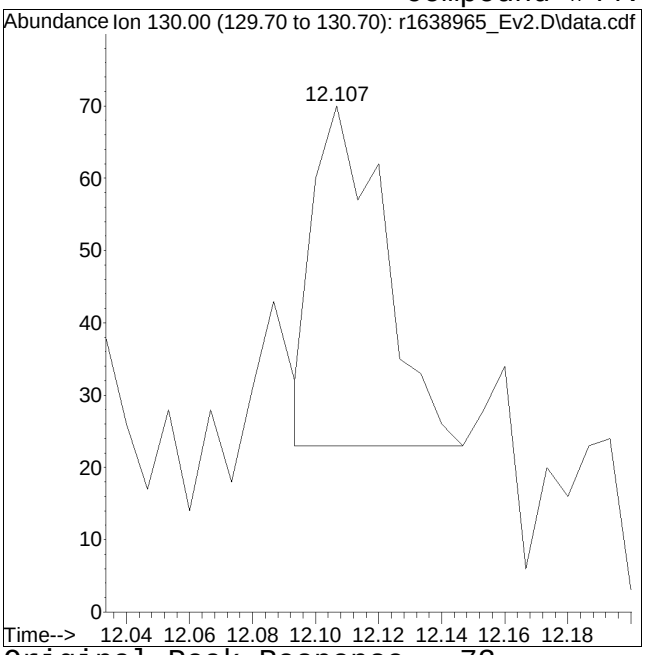
Manual Peak Response = 415 M4

M4 = Poor automated baseline construction.

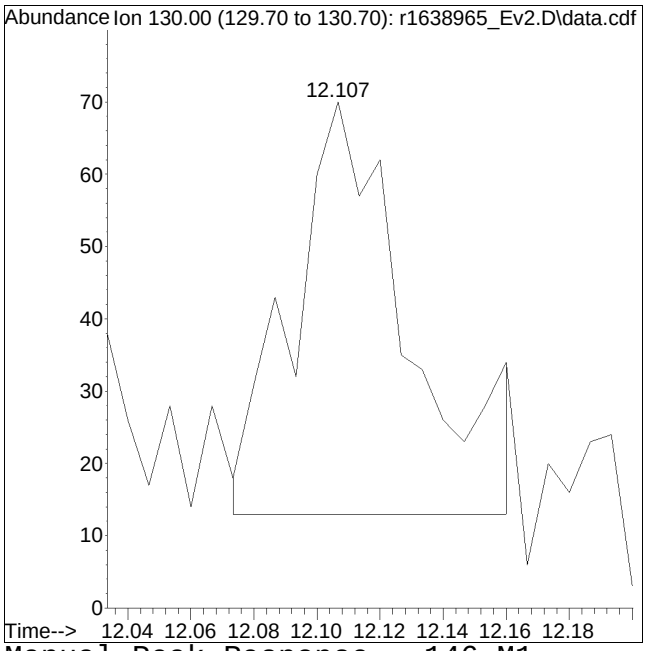
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab16QMethod : TSIM16_230725.M
Data File : r1638965_Ev2.D Operator : AIRLAB16:APR
Date Inj'd : 8/22/2020 0:9: 9 Instrument :
Sample : WG1818794-5,3,250,250 Quant Date : 8/23/2023 6:47 am

Compound #44: trichloroethene



Original Peak Response = 73



Manual Peak Response = 146 M1

M1 = Split or tailing peak, auto integration stopped early resulting in false low area count.

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)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Aug 23 2023, 03:52 pm

Work Group: WG1818794 for Department: 3 GC/MS

Created: 22-AUG-23 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2347540-01	IA-1	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-02	IA-2	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-03	IA-4	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-04	IA-5	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-05	IA-6	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-06	IA-9	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-07	IA-F1C	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-08	IA-F2C	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-09	IA-F3C	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-10	AA-1	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
L2347540-11	DUP_081623	S	TO15-SIM	AIR	DONE	U	0915	0823	S0	Can-2.7
WG1818794-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1818794-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1818794-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1818794-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1818794-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG1818794-5 L2347540-05

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 07/25/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: APR

Sequence File Name: 230725.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA16072501	TO15_SFS.qgm	R1638434.qgd	250ML	TUNE		NA
9	ITO15-SIMTD0.02	TO15_SFS.qgm	R1638435.qgd	SS23-019D 50 mL			NA
9	ITO15-SIMTD0.05	TO15_SFS.qgm	R1638436.qgd	SS23-019D 125 mL			NA
9	ITO15-SIMTD0.1	TO15_SFS.qgm	R1638437.qgd	SS23-019D 250 mL			NA
10	ITO15-LLSTD0.2	TO15_SFS.qgm	R1638438.qgd	SS23-019C 50 mL			NA
10	ITO15-LLSTD0.5	TO15_SFS.qgm	R1638439.qgd	SS23-019C 125 mL			NA
10	ITO15-LLSTD1.0	TO15_SFS.qgm	R1638440.qgd	SS23-019C 250 mL			NA
11	ITO15-LLSTD5.0	TO15_SFS.qgm	R1638441.qgd	SS23-019B 125 mL			NA
11	ITO15-LLSTD010	TO15_SFS.qgm	R1638442.qgd	SS23-019B 250 mL			NA
12	ITO15-LLSTD020	TO15_SFS.qgm	R1638443.qgd	SS23-019A 50 mL			NA
12	ITO15-LLSTD050	TO15_SFS.qgm	R1638444.qgd	SS23-019A 125 mL			NA
12	ITO15-LLSTD100	TO15_SFS.qgm	R1638445.qgd	SS23-019A 250 mL			NA
1	BA16072501	TO15_SFS.qgm	R1638446.qgd	250ML			NA
1	BA16072502	TO15_SFS.qgm	R1638447.qgd	250ML			NA
2	CTO15-LLSTD010	TO15_SFS.qgm	R1638448.qgd	SS23-017H 250 mL	LL ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1638449.qgd	SS23-017H 125 mL	SIM ICV		NA

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 16

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 08/22/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 230822.S

Sample ID

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA16082201	TO15_SFS.qgm	R1638951.qgd	250 mL	TUNE		NA
2	CA16082201	TO15_SFS.qgm	R1638952.qgd	250 mL SS23-016E	LL CC		NA
4	CTO15-LLSTD10	TO15_SFS.qgm	R1638953.qgd	250 mL SS23-017D	DO NOT USE		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1638954.qgd	125 mL SS23-017D	SIM LCS		NA
4	CTO15-LLSTD10	TO15_SFS.qgm	R1638955.qgd	250 mL SS23-017D	LL LCS		NA
1	BA16082201	TO15_SFS.qgm	R1638956.qgd	250 mL	LL BLANK		NA
1	BA16082202	TO15_SFS.qgm	R1638957.qgd	250 mL	SIM BLANK		NA
1	L2347533-02,3,250,250	TO15_SFS.qgm	R1638958.qgd	WG1818792,ICAL20199		NY	Y
2	L2347540-10,3,250,250	TO15_SFS.qgm	R1638959.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
4	L2347540-01,3,250,250	TO15_SFS.qgm	R1638960.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
5	L2347540-02,3,250,250	TO15_SFS.qgm	R1638961.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
6	L2347540-03,3,250,250	TO15_SFS.qgm	R1638962.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
7	L2347540-04,3,250,250	TO15_SFS.qgm	R1638963.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
8	L2347540-05,3,250,250	TO15_SFS.qgm	R1638964.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
8	L2347540-05DUP,3,250,250	TO15_SFS.qgm	R1638965.qgd	WG1818792,ICAL20199	LL/ SIM DUP	NY- 7 SIM	Y
9	L2347540-06,3,250,250	TO15_SFS.qgm	R1638966.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
10	L2347540-07,3,250,250	TO15_SFS.qgm	R1638967.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
11	L2347540-08,3,250,250	TO15_SFS.qgm	R1638968.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
12	L2347540-09,3,250,250	TO15_SFS.qgm	R1638969.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
13	L2347540-11,3,250,250	TO15_SFS.qgm	R1638970.qgd	WG1818792,ICAL20199		NY- 7 SIM	Y
14	L2347533-01D,3,125,250	TO15_SFS.qgm	R1638971.qgd	WG1818792,ICAL20199	IS FAILURE	NY	Y

Alpha Analytical Air Lab
Instrument Run Log

15	L2347533-03D,3,17.38,250	TO15_SFS.qgm	R1638972.qgd	WG1818792,ICAL20199	OVERDILUTED	NY	Y
16	L2347533-04D,3,75,250	TO15_SFS.qgm	R1638973.qgd	WG1818792,ICAL20199	T	NY	Y
1	L2347533-05D,3,176.77,250	TO15_SFS.qgm	R1638974.qgd	WG1818792,ICAL20199	905	NY	Y
2	L2347533-06,3,250,250	TO15_SFS.qgm	R1638975.qgd	WG1818792,ICAL20199		NY	Y
4	L2347533-07D,3,196.97,250	TO15_SFS.qgm	R1638976.qgd	WG1818792,ICAL20199	905	NY	Y
5	L2347533-08D,3,152.5,250	TO15_SFS.qgm	R1638977.qgd	WG1818792,ICAL20199	905	NY	Y
6	L2347533-09,3,250,250	TO15_SFS.qgm	R1638978.qgd	WG1818792,ICAL20199		NY	Y
15	L2347533-03D,3,124.15,250	TO15_SFS.qgm	R1638979.qgd	WG1818792,ICAL20199		NY	Y
14	L2347533-01D,3,35,250	TO15_SFS.qgm	R1638980.qgd	WG1818792,ICAL20199		NY	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

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Alpha Analytical

Laboratory Code: 11148

SDG Number: L2409224

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STD0.1 Injected on: 02/21/24 21:57 936
STD0.2 Injected on: 02/21/24 22:41 944
STD0.5 Injected on: 02/21/24 23:25 949
STD1.0 Injected on: 02/22/24 00:09 955
STD5.0 Injected on: 02/22/24 00:52 961
STD010 Injected on: 02/22/24 01:36 970
STD020 Injected on: 02/22/24 02:20 976
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STD0.1 Injected on: 12/30/23 15:14 1025
STD0.2 Injected on: 12/30/23 15:53 1034
STD0.5 Injected on: 12/30/23 16:33 1041
STD1.0 Injected on: 12/30/23 17:15 1048
STD5.0 Injected on: 12/30/23 17:55 1055
STD010 Injected on: 12/30/23 18:38 1061
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BFB Injected on: 01/07/24 19:44 1090
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Project Name: 11-20 46TH ROAD
Project Number: 3371.0001Y000

Lab Number: L2409224
Report Date: 02/27/24

Alpha Sample ID	Client ID	Matrix	Sample Location	Collection Date/Time	Receive Date
L2409224-01	IA-1	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:25	02/20/24
L2409224-02	IA-2	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:32	02/20/24
L2409224-03	IA-4	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:27	02/20/24
L2409224-04	IA-5	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:29	02/20/24
L2409224-05	IA-6	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:34	02/20/24
L2409224-06	IA-9	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:35	02/20/24
L2409224-07	IA-F1C	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:45	02/20/24
L2409224-08	IA-F2C	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:42	02/20/24
L2409224-09	IA-F3C	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:40	02/20/24
L2409224-10	AA-1	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 08:37	02/20/24
L2409224-11	DUP_022024	AIR	11-20 46TH, LONG ISLAND CITY, NY	02/20/24 15:47	02/20/24

Case Narrative

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

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

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

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

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

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

Case Narrative (continued)

Volatile Organics in Air

Canisters were released from the laboratory on February 19, 2024. The canister certification data is provided as an addendum.

L2409224-07: 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.

L2409224-07D: The sample has elevated detection limits due to the dilution required by the elevated concentrations of target compounds in the sample.

The WG1888882-4 Method Blank, associated with L2409224-01, has a concentration above the reporting limit for Trichloroethane. All associated samples will be re-analyzed for this compound.

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: 02/27/24

Title: Technical Director/Representative

GLOSSARY

Acronyms

DL - Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the limit of quantitation (LOQ). The DL includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

EDL - Estimated Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The EDL includes any adjustments from dilutions, concentrations or moisture content, where applicable. The use of EDLs is specific to the analysis of PAHs using Solid-Phase Microextraction (SPME).

EMPC - Estimated Maximum Possible Concentration: The concentration that results from the signal present at the retention time of an analyte when the ions meet all of the identification criteria except the ion abundance ratio criteria. An EMPC is a worst-case estimate of the concentration.

EPA - Environmental Protection Agency.

LCS - Laboratory Control Sample: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LCSD - Laboratory Control Sample Duplicate: Refer to LCS.

LFB - Laboratory Fortified Blank: A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes or a material containing known and verified amounts of analytes.

LOD - Limit of Detection: This value represents the level to which a target analyte can reliably be detected for a specific analyte in a specific matrix by a specific method. The LOD includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

LOQ - Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

Limit of Quantitation: The value at which an instrument can accurately measure an analyte at a specific concentration. The LOQ includes any adjustments from dilutions, concentrations or moisture content, where applicable. (DoD report formats only.)

MDL - Method Detection Limit: This value represents the level to which target analyte concentrations are reported as estimated values, when those target analyte concentrations are quantified below the reporting limit (RL). The MDL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

MS - Matrix Spike Sample: A sample prepared by adding a known mass of target analyte to a specified amount of matrix sample for which an independent estimate of target analyte concentration is available. For Method 332.0, the spike recovery is calculated using the native concentration, including estimated values.

MSD - Matrix Spike Sample Duplicate: Refer to MS.

NA - Not Applicable.

NC - Not Calculated: Term is utilized when one or more of the results utilized in the calculation are non-detect at the parameter's reporting unit.

NDPA/DPA - N-Nitrosodiphenylamine/Diphenylamine.

NI - Not Ignitable.

NP - Non-Plastic: Term is utilized for the analysis of Atterberg Limits in soil.

NR - No Results: Term is utilized when 'No Target Compounds Requested' is reported for the analysis of Volatile or Semivolatile Organic TIC only requests.

RL - Reporting Limit: The value at which an instrument can accurately measure an analyte at a specific concentration. The RL includes any adjustments from dilutions, concentrations or moisture content, where applicable.

RPD - Relative Percent Difference: The results from matrix and/or matrix spike duplicates are primarily designed to assess the precision of analytical results in a given matrix and are expressed as relative percent difference (RPD). Values which are less than five times the reporting limit for any individual parameter are evaluated by utilizing the absolute difference between the values; although the RPD value will be provided in the report.

SRM - Standard Reference Material: A reference sample of a known or certified value that is of the same or similar matrix as the associated field samples.

STLP - Semi-dynamic Tank Leaching Procedure per EPA Method 1315.

TEF - Toxic Equivalency Factors: The values assigned to each dioxin and furan to evaluate their toxicity relative to 2,3,7,8-TCDD.

TEQ - Toxic Equivalent: The measure of a sample's toxicity derived by multiplying each dioxin and furan by its corresponding TEF and then summing the resulting values.

TIC - Tentatively Identified Compound: A compound that has been identified to be present and is not part of the target compound list (TCL) for the method and/or program. All TICs are qualitatively identified and reported as estimated concentrations.

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

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

Alpha Job Number : L2409224

Account Name : Roux Env. Eng. & Geology, DPC
Project Number : 3371.0001Y000
Project Name : 11-20 46TH ROAD

Received : 20-FEB-2024
Reviewer : Jennifer Jerome

Delivery Information

Samples Delivered By : Alpha Courier

Chain of Custody : Present

Cooler Information

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

Condition Information

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

Volatile Organics/VPH

1) Reagent Water Vials Frozen by Client?	**NA**

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 27 2024, 03:40 pm

Login Number: L2409224
Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 3371.0001Y000
Received: 20FEB24 Due Date: 27FEB24

Sample #	Client ID	Mat	PR	Collected
L2409224-01	IA-1	10	S0	20FEB24 15:25
TO15 SIM for 7 NYS DMCs ASP-B Package Due Date: 02/27/24				
ASP-B,CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-02	IA-2	10	S0	20FEB24 15:32
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-03	IA-4	10	S0	20FEB24 15:27
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-04	IA-5	10	S0	20FEB24 15:29
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-05	IA-6	10	S0	20FEB24 15:34
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-06	IA-9	10	S0	20FEB24 15:35
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-07	IA-F1C	10	S0	20FEB24 15:45
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				

ALPHA ANALYTICAL LABORATORIES, INC.
LOGIN CHAIN OF CUSTODY REPORT
Feb 27 2024, 03:40 pm

Login Number: L2409224

Account: ROUX-NY Roux Env. Eng. & Geology, DPCProject: 3371.0001Y000

Received: 20FEB24 Due Date: 27FEB24

Sample #	Client ID	Mat	PR	Collected
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-08	IA-F2C	10	S0	20FEB24 15:42
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-09	IA-F3C	10	S0	20FEB24 15:40
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-10	AA-1	10	S0	20FEB24 08:37
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				
L2409224-11	DUP_022024	10	S0	20FEB24 15:47
TO15 SIM for 7 NYS DMCs Package Due Date: 02/27/24				
CAN-RENT,FLOW-RENT,TO15-LL,TO15-SIM				

Logged By: Christopher J Anderson

AIR ANALYSIS

PAGE ____ OF ____

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 2/21/24

ALPHA Job #: L2409224

Client Information

Client: Roux Env Eng & Geo DPC
Address: 209 Shafter Street
Islandia, NY 11749
Phone: (631) 232-2600
Fax: — — —
Email: rhenke@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 11-20 46th Road
Project Location: 11-20 46th, Long Island City, NY
Project #: 3371.0007Y000
Project Manager: Rachel Henke
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: CAT-B
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

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 Solvent Non-petroleum HCs ☐	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
09224-01	IA-1	02/20/24	07:30	15:25	-31.01	-4.80	IA	LF	6	2922	0982	X	X				
02	IA-2	02/20/24	07:40	15:32	-31.02	-5.93	IA	LF	6	2985	0975	X	X				
03	IA-4	02/20/24	07:33	15:27	-30.80	-7.85	IA	LF	6	2915	0101	X	X				
04	IA-5	02/20/24	07:36	15:29	-31.16	-6.43	IA	LF	6	597	0454	X	X				
05	IA-6	02/20/24	07:43	15:34	-31.56	-7.21	IA	LF	6	2948	0003	X	X				
06	IA-9	02/20/24	07:49	15:35	-31.02	-6.81	IA	LF	6	3056	0124	X	X				
07	IA-F1C	02/20/24	08:03	15:45	-30.98	-6.32	IA	LF	6	3139	02123	X	X				
08	IA-F2C	02/20/24	07:59	15:42	-31.25	-6.78	IA	LF	6	1784	01060	X	X				
09	IA-F3C	02/20/24	07:55	15:40	-30.97	-6.99	IA	LF	6	1668	01178	X	X				
10	AA-1	02/20/24	08:08	08:37	-30.74	-4.00	AA	LF	6	1769	02001	X	X				

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
Luisa Fernandez MS MA(AN)	02/20/24 16:40	MS MA(AN) Anthony Green	320 1690 FEB 20 2024 2047
Anthony Green	2/20/24 2345		2/20/24 2345
2/21/24 (2/20/24) 0400			2/21/24 0400

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

AIR ANALYSIS

PAGE ____ OF ____

CHAIN OF CUSTODY

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

Date Rec'd in Lab: 2/21/24

ALPHA Job #: L2409224

Client Information

Client: Roux Env Eng & GIS DPC
Address: 209 Shafter Street
Islandia, NY 11749
Phone: (631) 232-2600
Fax: — — —
Email: rhenke@rouxinc.com

☐ These samples have been previously analyzed by Alpha

Project Information

Project Name: 11-20 46th Road
Project Location: 11-20 46th Road Long Island City, NY
Project #: 3371.0001Y000
Project Manager: Rachel Henke
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: CAT-B
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

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 (Subset Non-petroleum HCs ☐)	Fixed Gases	Sulfides & Mercaptans by TO-15	Sample Comments (i.e. PID)
11	DUP_022024	02/20/24	07:28	15:47	-31.16	-5.34	IA	LF	6	2637	01021						

ANALYSIS

*SAMPLE MATRIX CODES

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

Container Type

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

Relinquished By:	Date/Time	Received By:	Date/Time:
Luisa Fernandez	02/20/24 16:40	MS MA (AAL)	2/20 1640
MS MA (AAL)	2/20 2027	Anthony Green	FEB 20 2024 2047
Anthony Green	2/20/24 2345		2/20/24 2345
	2/21/24 0400		2/21/24 0400

(Rev. 2 - Sep-15)

Supporting Documentation

Canister and Flow Controller Information

Samplenum	Client ID	Media ID	Media Type	Date Prepared	Bottle Order	Cleaning Batch ID	Can Leak Check	Initial Pressure (in. Hg)	Pressure on Receipt (in. Hg)	Flow Controler Leak Chk	Flow Out mL/min	Flow In mL/min	% RPD
L2409224-01	IA-1	0982	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	10.0	0
L2409224-01	IA-1	2922	6.0L Can	02/19/24	453241	L2408153-05	Pass	-29.3	-3.8	-	-	-	-
L2409224-02	IA-2	0475	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	10.0	0
L2409224-02	IA-2	2785	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.4	-5.0	-	-	-	-
L2409224-03	IA-4	0101	Flow 4	02/19/24	453241		-	-	-	Pass	9.6	9.5	1
L2409224-03	IA-4	2915	6.0L Can	02/19/24	453241	L2408153-05	Pass	-29.3	-6.8	-	-	-	-
L2409224-04	IA-5	0454	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	10.3	3
L2409224-04	IA-5	597	6.0L Can	02/19/24	453241	L2408153-05	Pass	-29.4	-5.9	-	-	-	-
L2409224-05	IA-6	0003	Flow 5	02/19/24	453241		-	-	-	Pass	10.0	10.2	2
L2409224-05	IA-6	2948	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.4	-6.5	-	-	-	-
L2409224-06	IA-9	0124	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	10.6	6
L2409224-06	IA-9	3056	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.4	-5.7	-	-	-	-
L2409224-07	IA-F1C	02123	FLOW 3	02/19/24	453241		-	-	-	Pass	10.0	10.3	3
L2409224-07	IA-F1C	3139	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.4	-5.5	-	-	-	-
L2409224-08	IA-F2C	01060	Flow 5	02/19/24	453241		-	-	-	Pass	10.0	10.1	1

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
L2409224-08	IA-F2C	1784	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.3	-6.0	-	-	-	-
L2409224-09	IA-F3C	01178	Flow 5	02/19/24	453241		-	-	-	Pass	10.0	10.2	2
L2409224-09	IA-F3C	1668	6.0L Can	02/19/24	453241	L2408153-05	Pass	-29.3	-6.3	-	-	-	-
L2409224-10	AA-1	02001	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	11.3	12
L2409224-10	AA-1	1769	6.0L Can	02/19/24	453241	L2408153-05	Pass	-29.3	-1.7	-	-	-	-
L2409224-11	DUP_022024	01021	Flow 4	02/19/24	453241		-	-	-	Pass	10.0	10.1	1
L2409224-11	DUP_022024	2637	6.0L Can	02/19/24	453241	L2408153-04	Pass	-29.5	-4.7	-	-	-	-

Air Canister Certification Results

Lab ID: L2408153-04
Client ID: CAN 1879 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/14/24 20:36
Analyst: JFI

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Air Canister Certification Results

Lab ID: L2408153-04 Date Collected: 02/14/24 16:00
Client ID: CAN 1879 SHELF 51 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2408153-04 Date Collected: 02/14/24 16:00
Client ID: CAN 1879 SHELF 51 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2408153-04 Date Collected: 02/14/24 16:00
Client ID: CAN 1879 SHELF 51 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Project Name:	BATCH CANISTER CERTIFICATION	***Lab Number:***	L2408153
Project Number:	CANISTER QC BAT	***Report Date:***	02/27/24

Air Canister Certification Results

Lab ID:	L2408153-04	Date Collected:	02/14/24 16:00
Client ID:	CAN 1879 SHELF 51	Date Received:	02/14/24
Sample Location:		Field Prep:	Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	87		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	88		60-140

Air Canister Certification Results

Lab ID: L2408153-04
Client ID: CAN 1879 SHELF 51
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/14/24 20:36
Analyst: JFI

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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: L2408153-04 Date Collected: 02/14/24 16:00
Client ID: CAN 1879 SHELF 51 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2408153-04 Date Collected: 02/14/24 16:00
Client ID: CAN 1879 SHELF 51 Date Received: 02/14/24
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	82		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Air Canister Certification Results

Lab ID: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15
Analytical Date: 02/14/24 21:16
Analyst: JFI

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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	0.500	--	ND	1.23	--		1
Acrylonitrile	ND	0.500	--	ND	1.09	--		1
Pentane	ND	0.200	--	ND	0.590	--		1
Ethyl ether	ND	0.200	--	ND	0.606	--		1
1,1-Dichloroethene	ND	0.200	--	ND	0.793	--		1
Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--		1

Air Canister Certification Results

Lab ID: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
Field Prep: Not Specified

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

	Results	**Qualifier**	**Units**	**RDL**	**Dilution Factor**
Tentatively Identified Compounds					
No Tentatively Identified Compounds					

Air Canister Certification Results

Lab ID: L2408153-05 Date Collected: 02/14/24 16:00
Client ID: CAN 1590 SHELF 52 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

Internal Standard	% Recovery	Qualifier	Acceptance Criteria
1,4-Difluorobenzene	88		60-140
Bromochloromethane	92		60-140
chlorobenzene-d5	87		60-140

Air Canister Certification Results

Lab ID: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:
Matrix: Air
Anaytical Method: 48,TO-15-SIM
Analytical Date: 02/14/24 21:16
Analyst: JFI

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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: L2408153-05 Date Collected: 02/14/24 16:00
Client ID: CAN 1590 SHELF 52 Date Received: 02/14/24
Sample Location: Field Prep: Not Specified

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

Air Canister Certification Results

Lab ID: L2408153-05
Client ID: CAN 1590 SHELF 52
Sample Location:

Date Collected: 02/14/24 16:00
Date Received: 02/14/24
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	82		60-140
bromochloromethane	86		60-140
chlorobenzene-d5	86		60-140

Organics

Volatile Organics in Air
TO-15 Low Level

Volatiles QC Summary

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409224-05	**Analysis Date**	: 02/25/24 22:31
Lab File ID	: R329323	**DUP File ID**	: r329324
Dup Sample ID	: WG1889054-5	**DUP Analysis Date**	: 02/25/24 23:13

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Dichlorodifluoromethane	0.568	0.572	1	25
Chloromethane	0.592	0.614	4	25
Freon-114	ND	ND	NC	25
1,3-Butadiene	ND	ND	NC	25
Bromomethane	ND	ND	NC	25
Chloroethane	ND	ND	NC	25
Ethanol	17.0	20.4	18	25
Vinyl bromide	ND	ND	NC	25
Acetone	2.26	2.19	3	25
Trichlorofluoromethane	0.210	0.204	3	25
Isopropanol	1.10	1.10	0	25
Tertiary butyl Alcohol	ND	ND	NC	25
Methylene chloride	ND	ND	NC	25
3-Chloropropene	ND	ND	NC	25
Carbon disulfide	ND	ND	NC	25
Freon-113	ND	ND	NC	25
trans-1,2-Dichloroethene	ND	ND	NC	25
1,1-Dichloroethane	ND	ND	NC	25
Methyl tert butyl ether	ND	ND	NC	25
2-Butanone	ND	ND	NC	25
Ethyl Acetate	ND	ND	NC	25
Chloroform	ND	ND	NC	25
Tetrahydrofuran	ND	ND	NC	25
1,2-Dichloroethane	ND	ND	NC	25
n-Hexane	ND	ND	NC	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409224-05	**Analysis Date**	: 02/25/24 22:31
Lab File ID	: R329323	**DUP File ID**	: r329324
Dup Sample ID	: WG1889054-5	**DUP Analysis Date**	: 02/25/24 23:13

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Benzene	0.415	0.410	1	25
Cyclohexane	ND	ND	NC	25
1,2-Dichloropropane	ND	ND	NC	25
Bromodichloromethane	ND	ND	NC	25
1,4-Dioxane	ND	ND	NC	25
2,2,4-Trimethylpentane	ND	ND	NC	25
Heptane	ND	ND	NC	25
cis-1,3-Dichloropropene	ND	ND	NC	25
4-Methyl-2-pentanone	ND	ND	NC	25
trans-1,3-Dichloropropene	ND	ND	NC	25
1,1,2-Trichloroethane	ND	ND	NC	25
Toluene	0.326	0.341	4	25
2-Hexanone	ND	ND	NC	25
Dibromochloromethane	ND	ND	NC	25
1,2-Dibromoethane	ND	ND	NC	25
Chlorobenzene	ND	ND	NC	25
Ethylbenzene	ND	ND	NC	25
p/m-Xylene	ND	ND	NC	25
Bromoform	ND	ND	NC	25
Styrene	ND	ND	NC	25
1,1,2,2-Tetrachloroethane	ND	ND	NC	25
o-Xylene	ND	ND	NC	25
4-Ethyltoluene	ND	ND	NC	25
1,3,5-Trimethylbenzene	ND	ND	NC	25
1,2,4-Trimethylbenzene	ND	ND	NC	25

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409224-05	**Analysis Date**	: 02/25/24 22:31
Lab File ID	: R329323	**DUP File ID**	: r329324
Dup Sample ID	: WG1889054-5	**DUP Analysis Date**	: 02/25/24 23:13

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

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1888881-3	**Analysis Date** : 02/24/24 13:23	**File ID** : r1738914
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**
Propylene	10	8.45	84				-	70-130	-
Dichlorodifluoromethane	10	10.7	107				-	70-130	-
Chloromethane	10	8.23	82				-	70-130	-
Freon-114	10	10.3	103				-	70-130	-
Vinyl chloride	10	9.99	100				-	70-130	-
1,3-Butadiene	10	9.20	92				-	70-130	-
Bromomethane	10	10.5	105				-	70-130	-
Chloroethane	10	10.4	104				-	70-130	-
Ethanol	50	49.2	98				-	40-160	-
Vinyl bromide	10	10.0	100				-	70-130	-
Acetone	50	47.5	95				-	40-160	-
Trichlorofluoromethane	10	12.0	120				-	70-130	-
Isopropanol	25	19.4	78				-	40-160	-
1,1-Dichloroethene	10	11.1	111				-	70-130	-
Tertiary butyl Alcohol	10	8.90	89				-	70-130	-
Methylene chloride	10	10.7	107				-	70-130	-
3-Chloropropene	10	9.72	97				-	70-130	-
Carbon disulfide	10	9.34	93				-	70-130	-
Freon-113	10	10.5	105				-	70-130	-
trans-1,2-Dichloroethene	10	10.1	101				-	70-130	-
1,1-Dichloroethane	10	10.2	102				-	70-130	-
Methyl tert butyl ether	10	9.03	90				-	70-130	-
Vinyl acetate	10	8.81	88				-	70-130	-
2-Butanone	10	9.81	98				-	70-130	-
cis-1,2-Dichloroethene	10	10.4	104				-	70-130	-
Ethyl Acetate	10	10.4	104				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1888881-3 **Analysis Date** : 02/24/24 13:23	**File ID**	: r1738914
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**
Chloroform	10	10.9	109				-	70-130	-
Tetrahydrofuran	10	9.14	91				-	70-130	-
1,2-Dichloroethane	10	11.2	112				-	70-130	-
n-Hexane	10	10.1	101				-	70-130	-
1,1,1-Trichloroethane	10	10.6	106				-	70-130	-
Benzene	10	9.00	90				-	70-130	-
Carbon tetrachloride	10	11.7	117				-	70-130	-
Cyclohexane	10	10.1	101				-	70-130	-
1,2-Dichloropropane	10	9.78	98				-	70-130	-
Bromodichloromethane	10	11.6	116				-	70-130	-
1,4-Dioxane	10	10.0	100				-	70-130	-
Trichloroethene	10	10.3	103				-	70-130	-
2,2,4-Trimethylpentane	10	9.92	99				-	70-130	-
Heptane	10	9.24	92				-	70-130	-
cis-1,3-Dichloropropene	10	8.90	89				-	70-130	-
4-Methyl-2-pentanone	10	9.15	92				-	70-130	-
trans-1,3-Dichloropropene	10	9.05	90				-	70-130	-
1,1,2-Trichloroethane	10	9.99	100				-	70-130	-
Toluene	10	8.99	90				-	70-130	-
2-Hexanone	10	8.28	83				-	70-130	-
Dibromochloromethane	10	12.0	120				-	70-130	-
1,2-Dibromoethane	10	9.13	91				-	70-130	-
Tetrachloroethene	10	9.35	94				-	70-130	-
Chlorobenzene	10	8.98	90				-	70-130	-
Ethylbenzene	10	9.17	92				-	70-130	-
p/m-Xylene	20	18.8	94				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1888881-3 **Analysis Date** : 02/24/24 13:23	**File ID**	: r1738914
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**
Bromoform	10	12.3	123				-	70-130	-
Styrene	10	8.59	86				-	70-130	-
1,1,2,2-Tetrachloroethane	10	9.83	98				-	70-130	-
o-Xylene	10	9.53	95				-	70-130	-
4-Ethyltoluene	10	9.22	92				-	70-130	-
1,3,5-Trimethylbenzene	10	9.80	98				-	70-130	-
1,2,4-Trimethylbenzene	10	8.83	88				-	70-130	-
Benzyl chloride	10	8.69	87				-	70-130	-
1,3-Dichlorobenzene	10	9.51	95				-	70-130	-
1,4-Dichlorobenzene	10	9.46	95				-	70-130	-
1,2-Dichlorobenzene	10	9.18	92				-	70-130	-
1,2,4-Trichlorobenzene	10	7.33	73				-	70-130	-
Hexachlorobutadiene	10	9.28	93				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1889054-3 **Analysis Date** : 02/25/24 13:51	**File ID**	: r329314
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
Propylene	10	10.6	106				-	70-130	-
Dichlorodifluoromethane	10	9.89	99				-	70-130	-
Chloromethane	10	10.4	104				-	70-130	-
Freon-114	10	11.4	114				-	70-130	-
Vinyl chloride	10	11.3	113				-	70-130	-
1,3-Butadiene	10	12.2	122				-	70-130	-
Bromomethane	10	11.4	114				-	70-130	-
Chloroethane	10	10.8	108				-	70-130	-
Ethanol	50	59.2	118				-	40-160	-
Vinyl bromide	10	9.57	96				-	70-130	-
Acetone	50	42.9	86				-	40-160	-
Trichlorofluoromethane	10	9.57	96				-	70-130	-
Isopropanol	25	19.2	77				-	40-160	-
1,1-Dichloroethene	10	9.44	94				-	70-130	-
Tertiary butyl Alcohol	10	9.96	100				-	70-130	-
Methylene chloride	10	9.73	97				-	70-130	-
3-Chloropropene	10	8.76	88				-	70-130	-
Carbon disulfide	10	8.31	83				-	70-130	-
Freon-113	10	8.44	84				-	70-130	-
trans-1,2-Dichloroethene	10	8.73	87				-	70-130	-
1,1-Dichloroethane	10	8.30	83				-	70-130	-
Methyl tert butyl ether	10	8.70	87				-	70-130	-
Vinyl acetate	10	7.59	76				-	70-130	-
2-Butanone	10	8.44	84				-	70-130	-
cis-1,2-Dichloroethene	10	8.93	89				-	70-130	-
Ethyl Acetate	10	9.50	95				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1889054-3 **Analysis Date** : 02/25/24 13:51	**File ID**	: r329314
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
Chloroform	10	10.0	100				-	70-130	-
Tetrahydrofuran	10	8.25	82				-	70-130	-
1,2-Dichloroethane	10	9.58	96				-	70-130	-
n-Hexane	10	11.4	114				-	70-130	-
1,1,1-Trichloroethane	10	11.1	111				-	70-130	-
Benzene	10	9.24	92				-	70-130	-
Carbon tetrachloride	10	12.1	121				-	70-130	-
Cyclohexane	10	11.1	111				-	70-130	-
1,2-Dichloropropane	10	9.70	97				-	70-130	-
Bromodichloromethane	10	12.7	127				-	70-130	-
1,4-Dioxane	10	11.4	114				-	70-130	-
Trichloroethene	10	10.7	107				-	70-130	-
2,2,4-Trimethylpentane	10	11.2	112				-	70-130	-
Heptane	10	10.6	106				-	70-130	-
cis-1,3-Dichloropropene	10	10.4	104				-	70-130	-
4-Methyl-2-pentanone	10	11.0	110				-	70-130	-
trans-1,3-Dichloropropene	10	10.9	109				-	70-130	-
1,1,2-Trichloroethane	10	10.0	100				-	70-130	-
Toluene	10	7.92	79				-	70-130	-
2-Hexanone	10	8.77	88				-	70-130	-
Dibromochloromethane	10	10.6	106				-	70-130	-
1,2-Dibromoethane	10	7.94	79				-	70-130	-
Tetrachloroethene	10	8.39	84				-	70-130	-
Chlorobenzene	10	8.28	83				-	70-130	-
Ethylbenzene	10	8.33	83				-	70-130	-
p/m-Xylene	20	17.8	89				-	70-130	-

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1889054-3 **Analysis Date** : 02/25/24 13:51	**File ID**	: r329314
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**
Bromoform	10	11.4	114				-	70-130	-
Styrene	10	8.32	83				-	70-130	-
1,1,2,2-Tetrachloroethane	10	9.53	95				-	70-130	-
o-Xylene	10	9.36	94				-	70-130	-
4-Ethyltoluene	10	9.41	94				-	70-130	-
1,3,5-Trimethylbenzene	10	9.11	91				-	70-130	-
1,2,4-Trimethylbenzene	10	9.69	97				-	70-130	-
Benzyl chloride	10	11.2	112				-	70-130	-
1,3-Dichlorobenzene	10	9.91	99				-	70-130	-
1,4-Dichlorobenzene	10	9.92	99				-	70-130	-
1,2-Dichlorobenzene	10	9.48	95				-	70-130	-
1,2,4-Trichlorobenzene	10	10.4	104				-	70-130	-
Hexachlorobutadiene	10	9.27	93				-	70-130	-

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1888881-4	**Lab File ID**	: r1738916
Instrument ID	: AIRLAB17		
Matrix	: AIR	**Analysis Date**	: 02/24/24 17:09

Client Sample No.	Lab Sample ID	Analysis Date
WG1888881-3LCS	WG1888881-3	02/24/24 13:23
IA-1	L2409224-01	02/24/24 18:28
7VDUP	WG1888881-5	02/24/24 21:06

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1889054-4	**Lab File ID**	: r329316
Instrument ID	: AIRPIANO3		
Matrix	: AIR	**Analysis Date**	: 02/25/24 17:13

Client Sample No.	Lab Sample ID	Analysis Date
WG1889054-3LCS	WG1889054-3	02/25/24 13:51
AA-1	L2409224-10	02/25/24 19:50
IA-2	L2409224-02	02/25/24 20:30
IA-4	L2409224-03	02/25/24 21:10
IA-5	L2409224-04	02/25/24 21:50
IA-6	L2409224-05	02/25/24 22:31
IA-6DUP	WG1889054-5	02/25/24 23:13
IA-9	L2409224-06	02/25/24 23:53
IA-F1C	L2409224-07	02/26/24 00:34
IA-F2C	L2409224-08	02/26/24 01:14
IA-F3C	L2409224-09	02/26/24 01:55
DUP_022024	L2409224-11	02/26/24 02:35
IA-F1C	L2409224-07D	02/26/24 07:52

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 01/07/24 19:44
Tune Standard	: WG1872080-1	**Tune File ID**	: r1737672_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	4.8 (7)1
176	93.0 - 101% of mass 174	66.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1782626-1	R1737676	01/07/24 22:14
STD0.5	R1782626-2	R1737677	01/07/24 22:54
STD1.0	R1782626-3	R1737678	01/07/24 23:36
STD5.0	R1782626-4	R1737679	01/08/24 00:15
STD10.0	R1782626-5	R1737680	01/08/24 00:56
STD20	R1782626-6	R1737681	01/08/24 01:35
STD50	R1782626-7	R1737682	01/08/24 02:14
STD100	R1782626-8	R1737683	01/08/24 02:55
ICV QUANT	R1782626-9	R1737686	01/08/24 13:00

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 02/24/24 11:22
Tune Standard	: WG1888881-1	**Tune File ID**	: r1738911_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.5
75	30.0 - 66.0% of mass 95	41
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	67.1
175	4.0 - 9.0% of mass 174	4.7 (7.1)1
176	93.0 - 101% of mass 174	65.2 (97.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1888881-2CCAL	WG1888881-2	R1738913	02/24/24 12:42
WG1888881-3LCS	WG1888881-3	R1738914	02/24/24 13:23
WG1888881-4BLANK	WG1888881-4	R1738916	02/24/24 17:09
IA-1	L2409224-01	R1738918	02/24/24 18:28
WG1888881-5DUP	WG1888881-5	R1738922	02/24/24 21:06

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 12/30/23 13:22
Tune Standard	: WG1874984-1	**Tune File ID**	: r328235_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.4
75	30.0 - 66.0% of mass 95	34.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (.8)1
174	50.0 - 120.0% of mass 95	66.7
175	4.0 - 9.0% of mass 174	4.9 (7.3)1
176	93.0 - 101% of mass 174	64.7 (97)1
177	5.0 - 9.0% of mass 176	4.2 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.2	R1785355-1	R328239	12/30/23 15:53
STD0.5	R1785355-2	R328240	12/30/23 16:33
STD1.0	R1785355-3	R328241	12/30/23 17:15
STD5.0	R1785355-4	R328242	12/30/23 17:55
STD010	R1785355-5	R328243	12/30/23 18:38
STD020	R1785355-7	R328244	12/30/23 19:17
STD050	R1785355-6	R328245	12/30/23 19:57
STD100	R1785355-8	R328246	12/30/23 20:39
ICV QUANT	R1785355-9	R328249	12/31/23 11:55

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 02/25/24 12:25
Tune Standard	: WG1889054-1	**Tune File ID**	: r329312_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.9
75	30.0 - 66.0% of mass 95	39.8
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	0.5 (.7)1
174	50.0 - 120.0% of mass 95	69.7
175	4.0 - 9.0% of mass 174	4.9 (7.1)1
176	93.0 - 101% of mass 174	67.2 (96.3)1
177	5.0 - 9.0% of mass 176	4.5 (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
WG1889054-2CCAL	WG1889054-2	R329314	02/25/24 13:51
WG1889054-3LCS	WG1889054-3	R329314	02/25/24 13:51
WG1889054-4BLANK	WG1889054-4	R329316	02/25/24 17:13
AA-1	L2409224-10	R329319	02/25/24 19:50
IA-2	L2409224-02	R329320	02/25/24 20:30
IA-4	L2409224-03	R329321	02/25/24 21:10
IA-5	L2409224-04	R329322	02/25/24 21:50
IA-6	L2409224-05	R329323	02/25/24 22:31
WG1889054-5DUP	WG1889054-5	R329324	02/25/24 23:13
IA-9	L2409224-06	R329325	02/25/24 23:53
IA-F1C	L2409224-07	R329326	02/26/24 00:34
IA-F2C	L2409224-08	R329327	02/26/24 01:14
IA-F3C	L2409224-09	R329328	02/26/24 01:55
DUP_022024	L2409224-11	R329329	02/26/24 02:35
IA-F1C	L2409224-07D	R329337	02/26/24 07:52

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 02/24/24 12:42:00
Sample No	: WG1888881-2	**Lab File ID**	: R1738913

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1888881-2	362386	8.87	978676	11.10	144285	15.86
Upper Limit	507340	9.20	1370146	11.43	201999	16.19
Lower Limit	217432	8.54	587206	10.77	86571	15.53
Sample ID						
WG1888881-3 LCS	349274	8.87	947928	11.10	141727	15.86
WG1888881-4 BLANK	285521	8.87	754950	11.10	110109	15.86
IA-1	337803	8.85	891333	11.08	131312	15.84
7V DUP	326614	8.84	835700	11.08	125002	15.83

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 02/25/24 13:51:00
Sample No	: WG1889054-2	**Lab File ID**	: R329314

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1889054-2	280213	8.94	768332	11.17	143122	15.92
Upper Limit	392298	9.27	1075665	11.50	200371	16.25
Lower Limit	168128	8.61	460999	10.84	85873	15.59
Sample ID						
WG1889054-3 LCS	280213	8.94	768332	11.17	143122	15.92
WG1889054-4 BLANK	266564	8.95	710048	11.18	131338	15.92
AA-1	246896	8.95	651541	11.18	126138	15.92
IA-2	244214	8.95	653909	11.18	126091	15.92
IA-4	247797	8.95	645302	11.18	124820	15.92
IA-5	241012	8.95	629006	11.18	123067	15.92
IA-6	236878	8.95	613494	11.18	119742	15.92
IA-6 DUP	229246	8.95	596167	11.18	114783	15.92
IA-9	232651	8.95	606655	11.18	117846	15.92
IA-F1C	236806	8.95	624511	11.18	122979	15.92
IA-F2C	236526	8.95	620435	11.18	122143	15.92
IA-F3C	234681	8.95	616653	11.18	121111	15.92
DUP_022024	234248	8.95	608976	11.18	120227	15.92
IA-F1C	269629	8.95	726320	11.18	131972	15.92

Area Upper Limit = +40% of internal standard area

Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits

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

Volatile Organics in Air: TO-15 (AIR)

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

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

Please Note that the RL information provided in this table is calculated using a 100% Solids factor. ***(Soil/Solids only)***
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Volatile Organics in Air: TO-15 (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Dibromochloromethane	124-48-1	0.2	0.0566	ppbV	70-130			25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0757	ppbV	70-130			25	25			
Ethyl Alcohol	GCDAI06	5	1.74	ppbV	40-160			25	25			
Ethyl Acetate	141-78-6	0.5	0.297	ppbV	70-130			25	25			
Ethylbenzene	100-41-4	0.2	0.0575	ppbV	70-130			25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.2	0.0506	ppbV	70-130			25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.2	0.0504	ppbV	70-130			25	25			
Hexachlorobutadiene	87-68-3	0.2	0.0607	ppbV	70-130			25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.272	ppbV	40-160			25	25			
Methylene chloride	75-09-2	0.5	0.125	ppbV	70-130			25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.19	ppbV	70-130			25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.045	ppbV	70-130			25	25			
Methyl Methacrylate	80-62-6	0.5	0.226	ppbV	40-160			25	25			
p/m-Xylene	179601-23-1	0.4	0.125	ppbV	70-130			25	25			
o-Xylene	95-47-6	0.2	0.0621	ppbV	70-130			25	25			
Xylene (Total)	1330-20-7	0.2	0.0621	ppbV				25	25			
Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Heptane	142-82-5	0.2	0.0828	ppbV	70-130			25	25			
n-Hexane	110-54-3	0.2	0.0743	ppbV	70-130			25	25			
Propylene	115-07-1	0.5	0.135	ppbV	70-130			25	25			
Styrene	100-42-5	0.2	0.0596	ppbV	70-130			25	25			
Tetrachloroethene	127-18-4	0.2	0.0627	ppbV	70-130			25	25			
Thiophene	110-02-1	0.2	0.052	ppbV	70-130			25	25			
Tetrahydrofuran	109-99-9	0.5	0.117	ppbV	70-130			25	25			
Toluene	108-88-3	0.2	0.0867	ppbV	70-130			25	25			
trans-1,2-Dichloroethene	156-60-5	0.2	0.0755	ppbV	70-130			25	25			
1,2-Dichloroethene (total)	540-59-0	0.2	0.0595	ppbV				25	25			
trans-1,3-Dichloropropene	10061-02-6	0.2	0.0783	ppbV	70-130			25	25			
1,3-Dichloropropene, Total	542-75-6	0.2	0.0674	ppbV				25	25			
Trichloroethene	79-01-6	0.2	0.0548	ppbV	70-130			25	25			
Trichlorofluoromethane	75-69-4	0.2	0.0787	ppbV	70-130			25	25			
Vinyl acetate	108-05-4	1	0.323	ppbV	70-130			25	25			
Vinyl bromide	593-60-2	0.2	0.0722	ppbV	70-130			25	25			
Vinyl chloride	75-01-4	0.2	0.0582	ppbV	70-130			25	25			
Naphthalene	91-20-3	0.2	0.078	ppbV	70-130			25	25			
Total HC As Hexane	NONE	10	0.0743	ppbV	70-130			25	25			
Total VOCs As Toluene	NONE	10	0.0867	ppbV	70-130			25	25			
Propane	74-98-6	0.5	0.152	ppbV	70-130			25	25			
Acrylonitrile	107-13-1	0.5	0.0894	ppbV	70-130			25	25			
Acrolein	107-02-8	0.5	0.149	ppbV	60-113			25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.2	0.0508	ppbV	70-130			25	25			
Isopropylbenzene	98-82-8	0.2	0.0621	ppbV	70-130			25	25			

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Date Created: 01/09/24
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Volatile Organics in Air: TO-15 (AIR)

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

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

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-01	Date Collected	: 02/20/24 15:25
Client ID	: IA-1	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/24/24 18:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TJS
Lab File ID	: R1738918	Instrument ID	: AIRLAB17
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	0.515	0.200	--	2.55	0.989	--	
74-87-3	Chloromethane	0.492	0.200	--	1.02	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	21.4	5.00	--	40.3	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.43	1.00	--	5.77	2.38	--	
75-69-4	Trichlorofluoromethane	0.242	0.200	--	1.36	1.12	--	
67-63-0	Isopropanol	1.35	0.500	--	3.32	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.231	0.200	--	0.738	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-01	Date Collected	: 02/20/24 15:25
Client ID	: IA-1	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/24/24 18:28
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TJS
Lab File ID	: R1738918	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.305	0.200	--	1.15	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-01	**Date Collected**	: 02/20/24 15:25
Client ID	: IA-1	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/24/24 18:28
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TJS
Lab File ID	: R1738918	**Instrument ID**	: AIRLAB17
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-02	Date Collected	: 02/20/24 15:32
Client ID	: IA-2	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 20:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329320	Instrument ID	: AIRPIANO3
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	0.538	0.200	--	2.66	0.989	--	
74-87-3	Chloromethane	0.534	0.200	--	1.10	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	53.5	5.00	--	101	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.66	1.00	--	8.69	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	4.58	0.500	--	11.3	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	7.07	0.200	--	22.6	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-02	Date Collected	: 02/20/24 15:32
Client ID	: IA-2	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 20:30
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329320	Instrument ID	: AIRPIANO3
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	1.54	0.200	--	5.80	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-02	**Date Collected**	: 02/20/24 15:32
Client ID	: IA-2	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 20:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329320	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-03	Date Collected	: 02/20/24 15:27
Client ID	: IA-4	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 21:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329321	Instrument ID	: AIRPIANO3
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	0.542	0.200	--	2.68	0.989	--	
74-87-3	Chloromethane	0.577	0.200	--	1.19	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	9.12	5.00	--	17.2	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.55	1.00	--	3.68	2.38	--	
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	0.655	0.500	--	1.61	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	0.755	0.500	--	2.62	1.74	--	
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.231	0.200	--	0.738	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-03	Date Collected	: 02/20/24 15:27
Client ID	: IA-4	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 21:10
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329321	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.229	0.200	--	0.863	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-03	**Date Collected**	: 02/20/24 15:27
Client ID	: IA-4	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 21:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329321	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-04	Date Collected	: 02/20/24 15:29
Client ID	: IA-5	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 21:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329322	Instrument ID	: AIRPIANO3
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	0.558	0.200	--	2.76	0.989	--	
74-87-3	Chloromethane	0.594	0.200	--	1.23	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	79.4	5.00	--	150	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.74	1.00	--	6.51	2.38	--	
75-69-4	Trichlorofluoromethane	0.218	0.200	--	1.23	1.12	--	
67-63-0	Isopropanol	3.63	0.500	--	8.92	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.271	0.200	--	0.866	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-04	Date Collected	: 02/20/24 15:29
Client ID	: IA-5	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 21:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329322	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.211	0.200	--	0.795	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-04	**Date Collected**	: 02/20/24 15:29
Client ID	: IA-5	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 21:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329322	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-05	Date Collected	: 02/20/24 15:34
Client ID	: IA-6	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 22:31
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329323	Instrument ID	: AIRPIANO3
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	0.568	0.200	--	2.81	0.989	--	
74-87-3	Chloromethane	0.592	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	17.0	5.00	--	32.0	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.26	1.00	--	5.37	2.38	--	
75-69-4	Trichlorofluoromethane	0.210	0.200	--	1.18	1.12	--	
67-63-0	Isopropanol	1.10	0.500	--	2.70	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.415	0.200	--	1.33	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-05	**Date Collected**	: 02/20/24 15:34
Client ID	: IA-6	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 22:31
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329323	**Instrument ID**	: AIRPIANO3
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.326	0.200	--	1.23	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-05	**Date Collected**	: 02/20/24 15:34
Client ID	: IA-6	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 22:31
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329323	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-06	Date Collected	: 02/20/24 15:35
Client ID	: IA-9	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 23:53
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329325	Instrument ID	: AIRPIANO3
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	0.560	0.200	--	2.77	0.989	--	
74-87-3	Chloromethane	0.600	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	5.64	5.00	--	10.6	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.83	1.00	--	4.35	2.38	--	
75-69-4	Trichlorofluoromethane	0.210	0.200	--	1.18	1.12	--	
67-63-0	Isopropanol	0.561	0.500	--	1.38	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.657	0.200	--	2.10	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-06	Date Collected	: 02/20/24 15:35
Client ID	: IA-9	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 23:53
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329325	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.437	0.200	--	1.65	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-06	**Date Collected**	: 02/20/24 15:35
Client ID	: IA-9	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 23:53
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329325	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-07	Date Collected	: 02/20/24 15:45
Client ID	: IA-F1C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 00:34
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329326	Instrument ID	: AIRPIANO3
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	0.548	0.200	--	2.71	0.989	--	
74-87-3	Chloromethane	0.650	0.200	--	1.34	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	702	5.00	--	1320	9.42	--	E
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	4.47	1.00	--	10.6	2.38	--	
75-69-4	Trichlorofluoromethane	0.206	0.200	--	1.16	1.12	--	
67-63-0	Isopropanol	12.2	0.500	--	30.0	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.234	0.200	--	0.748	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-07	Date Collected	: 02/20/24 15:45
Client ID	: IA-F1C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 00:34
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329326	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.300	0.200	--	1.13	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-07	**Date Collected**	: 02/20/24 15:45
Client ID	: IA-F1C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 00:34
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329326	**Instrument ID**	: AIRPIANO3
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
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**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-07D	**Date Collected**	: 02/20/24 15:45
Client ID	: IA-F1C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 07:52
Sample Matrix	: AIR	**Dilution Factor**	: 5
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329337	**Instrument ID**	: AIRPIANO3
Sample Amount	: 50.0 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
64-17-5	Ethanol	718	25.0	--	1350	47.1	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-08	Date Collected	: 02/20/24 15:42
Client ID	: IA-F2C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 01:14
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329327	Instrument ID	: AIRPIANO3
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	0.562	0.200	--	2.78	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	33.3	5.00	--	62.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.53	1.00	--	3.63	2.38	--	
75-69-4	Trichlorofluoromethane	0.203	0.200	--	1.14	1.12	--	
67-63-0	Isopropanol	1.06	0.500	--	2.61	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.255	0.200	--	0.815	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-08	Date Collected	: 02/20/24 15:42
Client ID	: IA-F2C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 01:14
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329327	Instrument ID	: AIRPIANO3
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	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
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-08	**Date Collected**	: 02/20/24 15:42
Client ID	: IA-F2C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 01:14
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329327	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-09	Date Collected	: 02/20/24 15:40
Client ID	: IA-F3C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 01:55
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329328	Instrument ID	: AIRPIANO3
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	0.561	0.200	--	2.77	0.989	--	
74-87-3	Chloromethane	0.612	0.200	--	1.26	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	58.2	5.00	--	110	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.82	1.00	--	6.70	2.38	--	
75-69-4	Trichlorofluoromethane	0.221	0.200	--	1.24	1.12	--	
67-63-0	Isopropanol	1.46	0.500	--	3.59	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.276	0.200	--	0.882	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-09	Date Collected	: 02/20/24 15:40
Client ID	: IA-F3C	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 01:55
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329328	Instrument ID	: AIRPIANO3
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	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
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-09	**Date Collected**	: 02/20/24 15:40
Client ID	: IA-F3C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 01:55
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329328	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-10	Date Collected	: 02/20/24 08:37
Client ID	: AA-1	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 19:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329319	Instrument ID	: AIRPIANO3
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	0.552	0.200	--	2.73	0.989	--	
74-87-3	Chloromethane	0.587	0.200	--	1.21	0.413	--	
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	6.23	5.00	--	11.7	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	1.40	1.00	--	3.33	2.38	--	
75-69-4	Trichlorofluoromethane	0.216	0.200	--	1.21	1.12	--	
67-63-0	Isopropanol	0.573	0.500	--	1.41	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	ND	0.200	--	ND	0.639	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-10	Date Collected	: 02/20/24 08:37
Client ID	: AA-1	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/25/24 19:50
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329319	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.215	0.200	--	0.810	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-10	**Date Collected**	: 02/20/24 08:37
Client ID	: AA-1	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 19:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329319	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-11	Date Collected	: 02/20/24 15:47
Client ID	: DUP_022024	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 02:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329329	Instrument ID	: AIRPIANO3
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	0.558	0.200	--	2.76	0.989	--	
74-87-3	Chloromethane	0.595	0.200	--	1.23	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	31.6	5.00	--	59.5	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	3.57	1.00	--	8.48	2.38	--	
75-69-4	Trichlorofluoromethane	0.203	0.200	--	1.14	1.12	--	
67-63-0	Isopropanol	1.59	0.500	--	3.91	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.272	0.200	--	0.869	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: L2409224-11	Date Collected	: 02/20/24 15:47
Client ID	: DUP_022024	Date Received	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	Date Analyzed	: 02/26/24 02:35
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329329	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.266	0.200	--	1.00	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-11	**Date Collected**	: 02/20/24 15:47
Client ID	: DUP_022024	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 02:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329329	**Instrument ID**	: AIRPIANO3
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1888881-4	Date Collected	: NA
Client ID	: WG1888881-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/24/24 17:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TJS
Lab File ID	: R1738916	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1888881-4	Date Collected	: NA
Client ID	: WG1888881-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/24/24 17:09
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: TJS
Lab File ID	: R1738916	Instrument ID	: AIRLAB17
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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
71-55-6	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1888881-4	**Date Collected**	: NA
Client ID	: WG1888881-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/24/24 17:09
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: TJS
Lab File ID	: R1738916	**Instrument ID**	: AIRLAB17
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1889054-4	Date Collected	: NA
Client ID	: WG1889054-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/25/24 17:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329316	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
115-07-1	Propylene	ND	0.500	--	ND	0.861	--	U
75-71-8	Dichlorodifluoromethane	ND	0.200	--	ND	0.989	--	U
74-87-3	Chloromethane	ND	0.200	--	ND	0.413	--	U
76-14-2	Freon-114	ND	0.200	--	ND	1.40	--	U
75-01-4	Vinyl chloride	ND	0.200	--	ND	0.511	--	U
106-99-0	1,3-Butadiene	ND	0.200	--	ND	0.442	--	U
74-83-9	Bromomethane	ND	0.200	--	ND	0.777	--	U
75-00-3	Chloroethane	ND	0.200	--	ND	0.528	--	U
64-17-5	Ethanol	ND	5.00	--	ND	9.42	--	U
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	ND	1.00	--	ND	2.38	--	U
75-69-4	Trichlorofluoromethane	ND	0.200	--	ND	1.12	--	U
67-63-0	Isopropanol	ND	0.500	--	ND	1.23	--	U
75-35-4	1,1-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
108-05-4	Vinyl acetate	ND	1.00	--	ND	3.52	--	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1889054-4	Date Collected	: NA
Client ID	: WG1889054-4BLANK	Date Received	: NA
Sample Location	:	Date Analyzed	: 02/25/24 17:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329316	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
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
71-55-6	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

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1889054-4	**Date Collected**	: NA
Client ID	: WG1889054-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/25/24 17:13
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329316	**Instrument ID**	: AIRPIANO3
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U
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
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	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1889054-5	Date Collected	: 02/20/24 15:34
Client ID	: IA-6DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 02/25/24 23:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329324	Instrument ID	: AIRPIANO3
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	0.572	0.200	--	2.83	0.989	--	
74-87-3	Chloromethane	0.614	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	20.4	5.00	--	38.4	9.42	--	
593-60-2	Vinyl bromide	ND	0.200	--	ND	0.874	--	U
67-64-1	Acetone	2.19	1.00	--	5.20	2.38	--	
75-69-4	Trichlorofluoromethane	0.204	0.200	--	1.15	1.12	--	
67-63-0	Isopropanol	1.10	0.500	--	2.70	1.23	--	
75-65-0	Tertiary butyl Alcohol	ND	0.500	--	ND	1.52	--	U
75-09-2	Methylene chloride	ND	0.500	--	ND	1.74	--	U
107-05-1	3-Chloropropene	ND	0.200	--	ND	0.626	--	U
75-15-0	Carbon disulfide	ND	0.200	--	ND	0.623	--	U
76-13-1	Freon-113	ND	0.200	--	ND	1.53	--	U
156-60-5	trans-1,2-Dichloroethene	ND	0.200	--	ND	0.793	--	U
75-34-3	1,1-Dichloroethane	ND	0.200	--	ND	0.809	--	U
1634-04-4	Methyl tert butyl ether	ND	0.200	--	ND	0.721	--	U
78-93-3	2-Butanone	ND	0.500	--	ND	1.47	--	U
141-78-6	Ethyl Acetate	ND	0.500	--	ND	1.80	--	U
67-66-3	Chloroform	ND	0.200	--	ND	0.977	--	U
109-99-9	Tetrahydrofuran	ND	0.500	--	ND	1.47	--	U
107-06-2	1,2-Dichloroethane	ND	0.200	--	ND	0.809	--	U
110-54-3	n-Hexane	ND	0.200	--	ND	0.705	--	U
71-43-2	Benzene	0.410	0.200	--	1.31	0.639	--	

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	Lab Number	: L2409224
Project Name	: 11-20 46TH ROAD	Project Number	: 3371.0001Y000
Lab ID	: WG1889054-5	Date Collected	: 02/20/24 15:34
Client ID	: IA-6DUP	Date Received	: 02/20/24
Sample Location	:	Date Analyzed	: 02/25/24 23:13
Sample Matrix	: AIR	Dilution Factor	: 1
Analytical Method	: 48,TO-15	Analyst	: BJB
Lab File ID	: R329324	Instrument ID	: AIRPIANO3
Sample Amount	: 250 ml	GC Column	: RTX-1

		ppbV			ug/m3			
CAS NO.	Parameter	Results	RL	MDL	Results	RL	MDL	Qualifier
110-82-7	Cyclohexane	ND	0.200	--	ND	0.688	--	U
78-87-5	1,2-Dichloropropane	ND	0.200	--	ND	0.924	--	U
75-27-4	Bromodichloromethane	ND	0.200	--	ND	1.34	--	U
123-91-1	1,4-Dioxane	ND	0.200	--	ND	0.721	--	U
540-84-1	2,2,4-Trimethylpentane	ND	0.200	--	ND	0.934	--	U
142-82-5	Heptane	ND	0.200	--	ND	0.820	--	U
10061-01-5	cis-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
108-10-1	4-Methyl-2-pentanone	ND	0.500	--	ND	2.05	--	U
10061-02-6	trans-1,3-Dichloropropene	ND	0.200	--	ND	0.908	--	U
79-00-5	1,1,2-Trichloroethane	ND	0.200	--	ND	1.09	--	U
108-88-3	Toluene	0.341	0.200	--	1.29	0.754	--	
591-78-6	2-Hexanone	ND	0.200	--	ND	0.820	--	U
124-48-1	Dibromochloromethane	ND	0.200	--	ND	1.70	--	U
106-93-4	1,2-Dibromoethane	ND	0.200	--	ND	1.54	--	U
108-90-7	Chlorobenzene	ND	0.200	--	ND	0.921	--	U
100-41-4	Ethylbenzene	ND	0.200	--	ND	0.869	--	U
179601-23-1	p/m-Xylene	ND	0.400	--	ND	1.74	--	U
75-25-2	Bromoform	ND	0.200	--	ND	2.07	--	U
100-42-5	Styrene	ND	0.200	--	ND	0.852	--	U
79-34-5	1,1,2,2-Tetrachloroethane	ND	0.200	--	ND	1.37	--	U
95-47-6	o-Xylene	ND	0.200	--	ND	0.869	--	U
622-96-8	4-Ethyltoluene	ND	0.200	--	ND	0.983	--	U
108-67-8	1,3,5-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
95-63-6	1,2,4-Trimethylbenzene	ND	0.200	--	ND	0.983	--	U
100-44-7	Benzyl chloride	ND	0.200	--	ND	1.04	--	U
541-73-1	1,3-Dichlorobenzene	ND	0.200	--	ND	1.20	--	U

Results Summary
Form 1
Volatile Organics in Air

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1889054-5	**Date Collected**	: 02/20/24 15:34
Client ID	: IA-6DUP	**Date Received**	: 02/20/24
Sample Location	:	**Date Analyzed**	: 02/25/24 23:13
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15	**Analyst**	: BJB
Lab File ID	: R329324	**Instrument ID**	: AIRPIANO3
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
87-68-3	Hexachlorobutadiene	ND	0.200	--	ND	2.13	--	U

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738918.D
Acq On : 24 Feb 2024 6:28 PM
Operator : AIRLAB17:TJS
Sample : L2409224-01,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:54:57 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	337803	10.000	ppbV	0.00
Standard Area = 362386			Recovery =		93.22%	
43) 1,4-difluorobenzene	11.083	114	891333	10.000	ppbV	0.01
Standard Area = 978676			Recovery =		91.08%	
67) chlorobenzene-D5	15.842	54	131312	10.000	ppbV	0.00
Standard Area = 144285			Recovery =		91.01%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.874	85	16504	0.515	ppbV	96
6) chloromethane	4.024	50	8376	0.492	ppbV	99
7) Freon-114	0.000		0	N.D.		
10) 1,3-butadiene	4.384	54	580	0.038	ppbV	99
13) bromomethane	4.648		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.948	31	309744	21.424	ppbV	94
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.457	43	50035M6	2.433	ppbV	
21) trichlorofluoromethane	5.640	101	6140	0.242	ppbV	96
22) isopropyl alcohol	5.727	45	35987	1.347	ppbV	100
27) tertiary butyl alcohol	6.390		0	N.D.		
28) methylene chloride	6.462	49	6559	0.290	ppbV	89
29) 3-chloropropene	6.462		0	N.D.		
30) carbon disulfide	6.756		0	N.D.		
31) Freon 113	6.762	101	2091	0.064	ppbV	95
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	8.183	43	3980	0.096	ppbV #	97
38) Ethyl Acetate	8.958		0	N.D.		
39) chloroform	9.008	83	2353	0.074	ppbV	91
40) Tetrahydrofuran	9.483		0	N.D.		
42) 1,2-dichloroethane	9.833		0	N.D.		
44) hexane	8.925	57	2005	0.068	ppbV #	13
50) benzene	10.657	78	15286	0.231	ppbV	99
53) cyclohexane	10.983		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738918.D
Acq On : 24 Feb 2024 6:28 PM
Operator : AIRLAB17:TJS
Sample : L2409224-01,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:54:57 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : TO15-NY-7-SIM - .

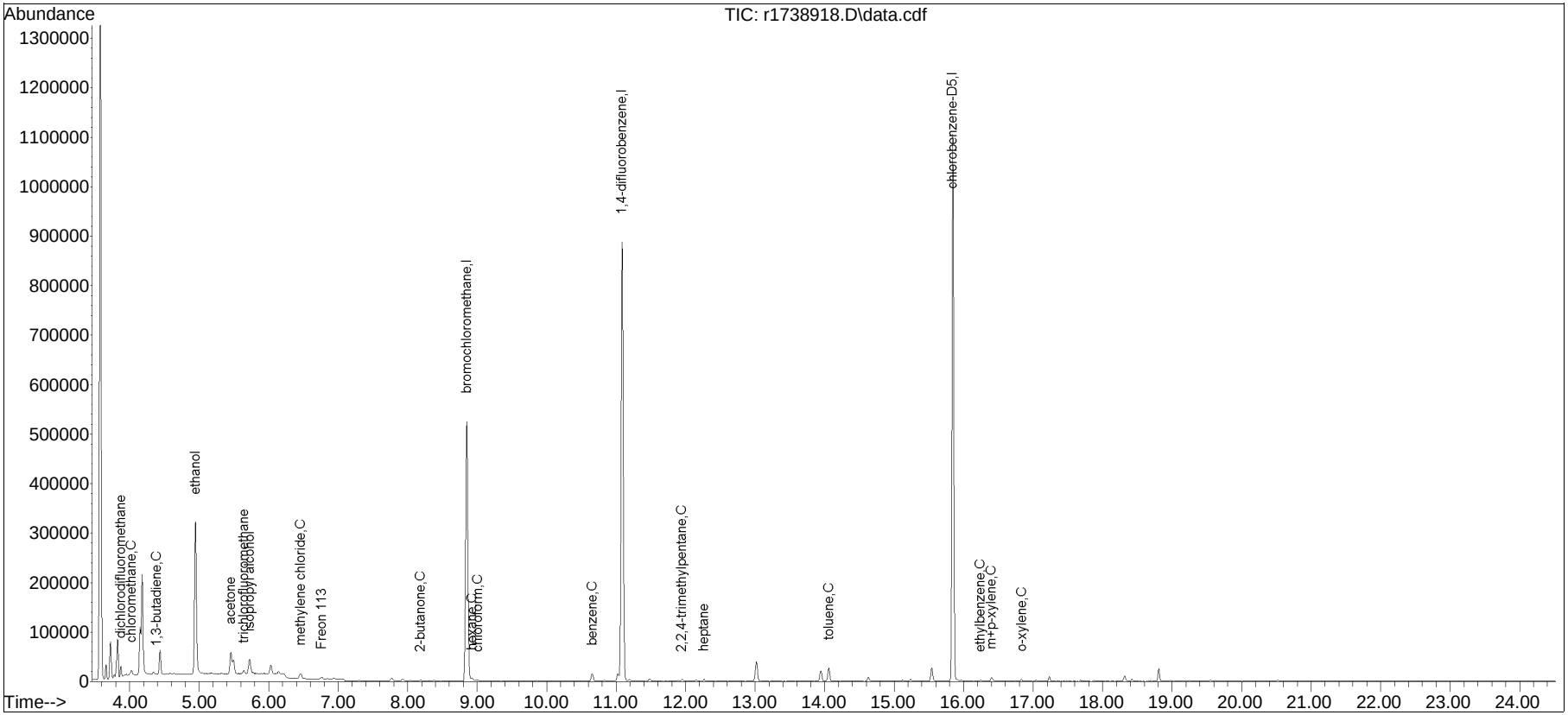
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	11.943	57	3550	0.036	ppbV #	91
62) heptane	12.263	43	1770	0.043	ppbV #	82
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D. d		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.058	91	21995	0.305	ppbV	99
72) 2-hexanone	14.342		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.242	91	2821	0.031	ppbV	95
83) m+p-xylene	16.400	91	6855	0.095	ppbV	90
84) bromoform	0.000		0	N.D.		
85) styrene	16.733		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.833	91	2636	0.037	ppbV	93
96) 4-ethyl toluene	17.875		0	N.D.		
97) 1,3,5-trimethylbenzene	17.975		0	N.D.		
99) 1,2,4-trimethylbenzene	18.317		0	N.D.		
101) Benzyl Chloride	18.325		0	N.D.		
102) 1,3-dichlorobenzene	18.508		0	N.D.		
103) 1,4-dichlorobenzene	18.508		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

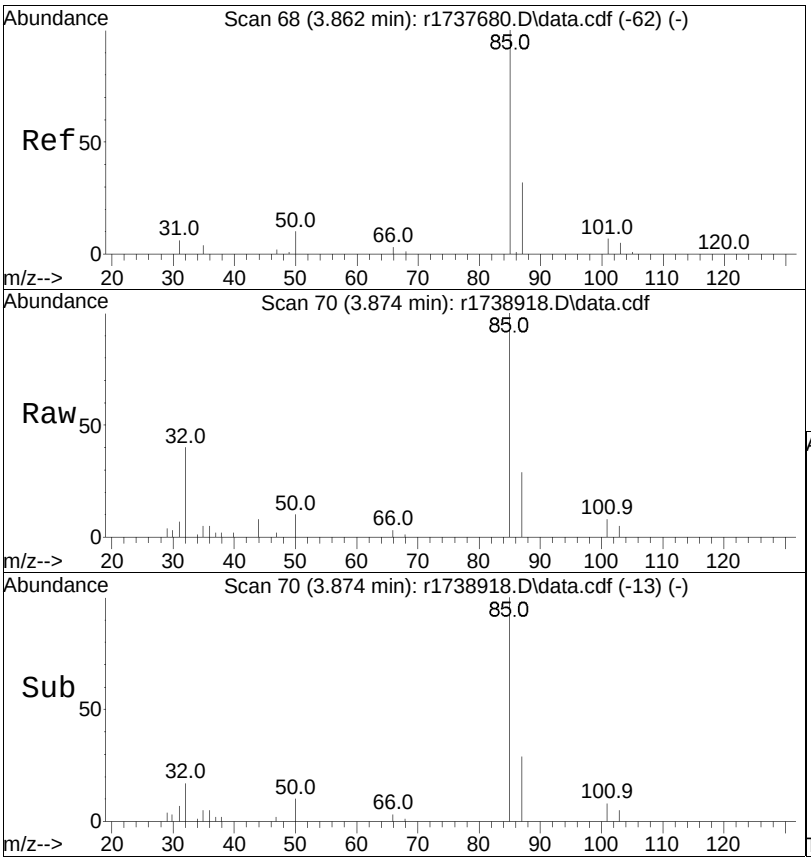
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0224T\r1738913.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738918.D
Acq On : 24 Feb 2024 6:28 PM
Operator : AIRLAB17:TJS
Sample : L2409224-01,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:54:57 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

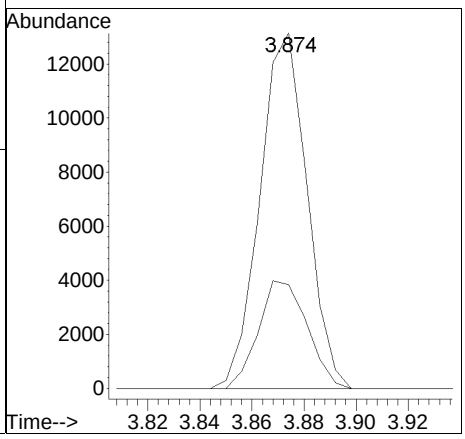


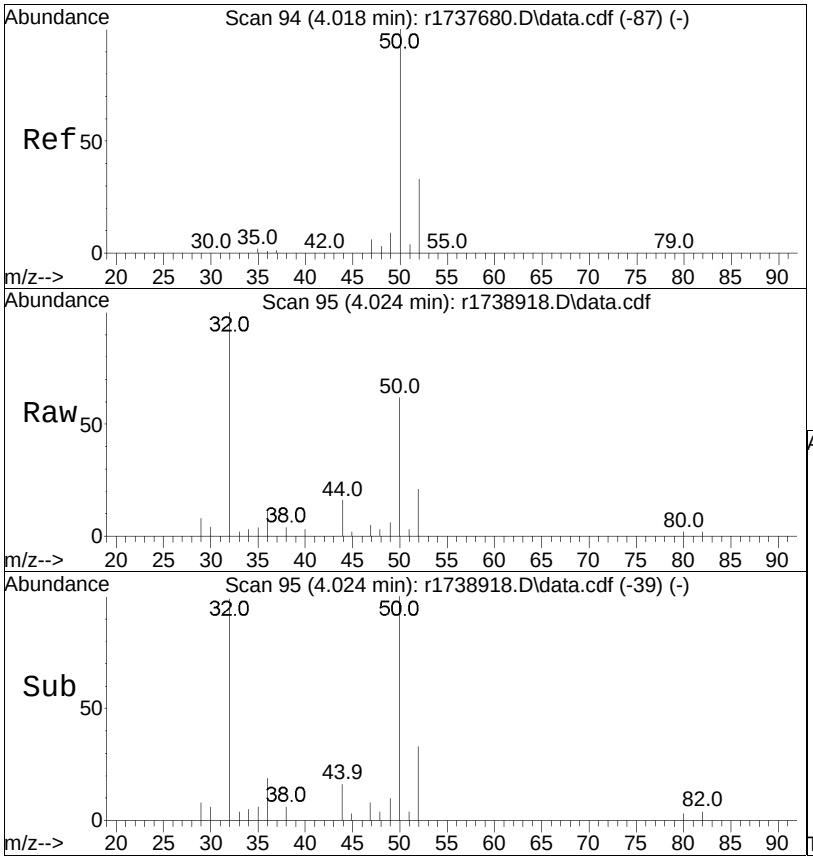


#5
dichlorodifluoromethane
Concen: 0.52 ppbV
RT: 3.874 min Scan# 70
Delta R.T. 0.012 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 85 Resp: 16504

Ion	Ratio	Lower	Upper
85	100		
87	29.2	25.4	38.0

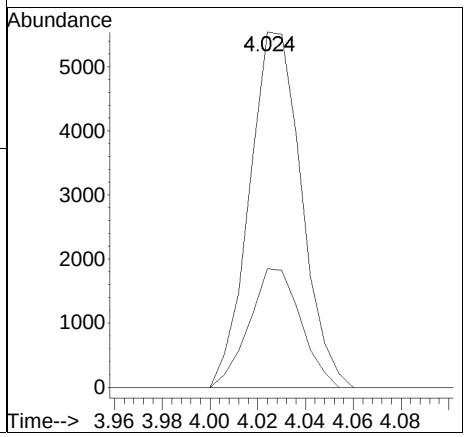


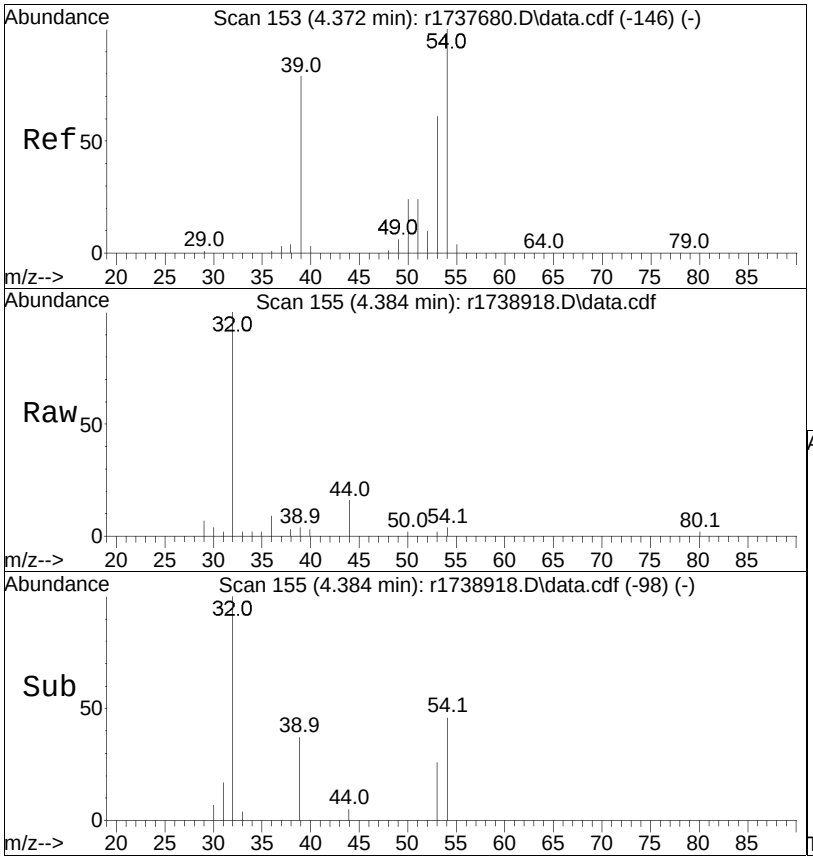


#6
chloromethane
Concen: 0.49 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.006 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 50 Resp: 8376

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.4	39.6

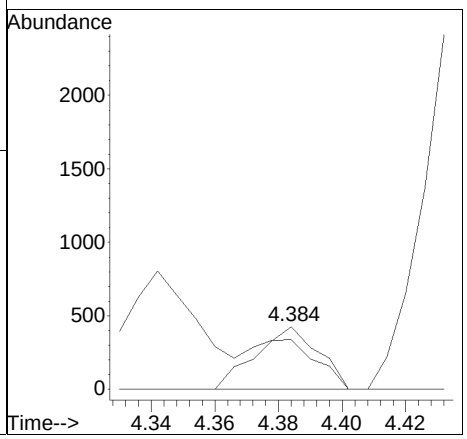


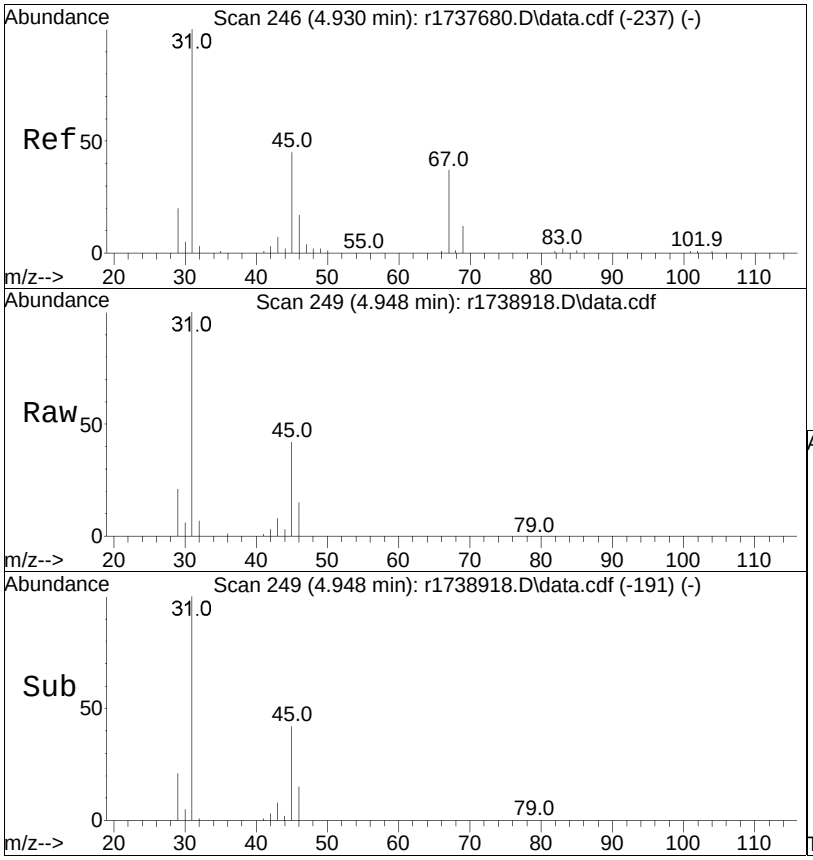


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.384 min Scan# 155
Delta R.T. 0.012 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 54 Resp: 580

Ion	Ratio	Lower	Upper
54	100		
39	79.1	63.8	95.8

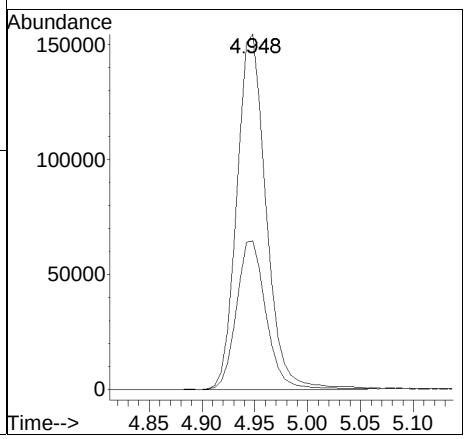


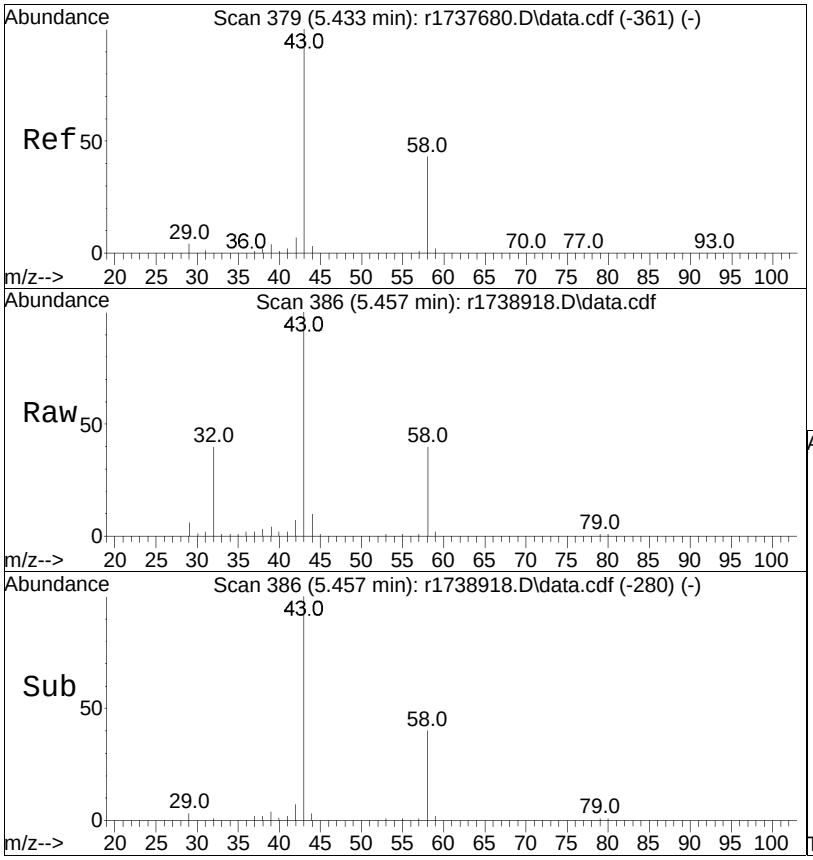


#15
ethanol
Concen: 21.42 ppbV
RT: 4.948 min Scan# 249
Delta R.T. 0.018 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 31 Resp: 309744

Ion	Ratio	Lower	Upper
31	100		
45	41.8	36.3	54.5

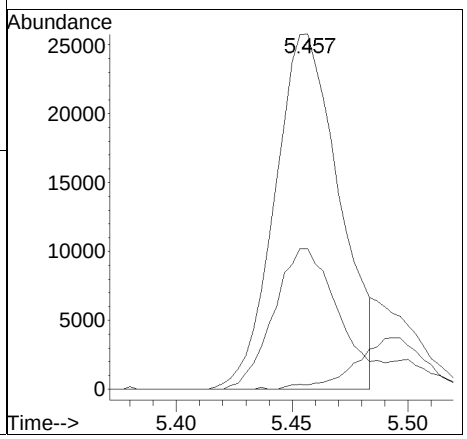


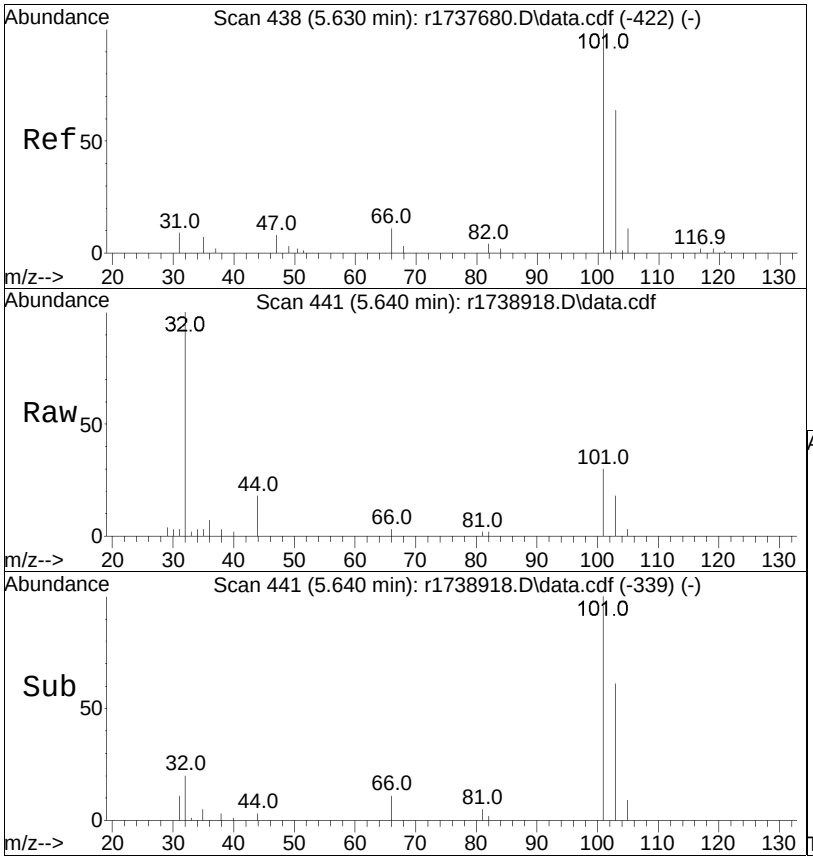


#19
acetone
Concen: 2.43 ppbV m
RT: 5.457 min Scan# 386
Delta R.T. 0.023 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 43 Resp: 50035

Ion	Ratio	Lower	Upper
43	100		
58	39.6	34.0	51.0
57	1.3	0.9	1.3

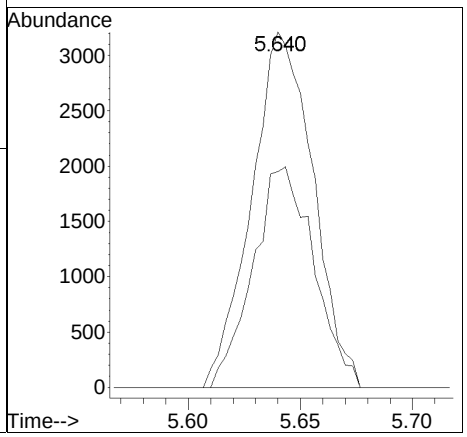


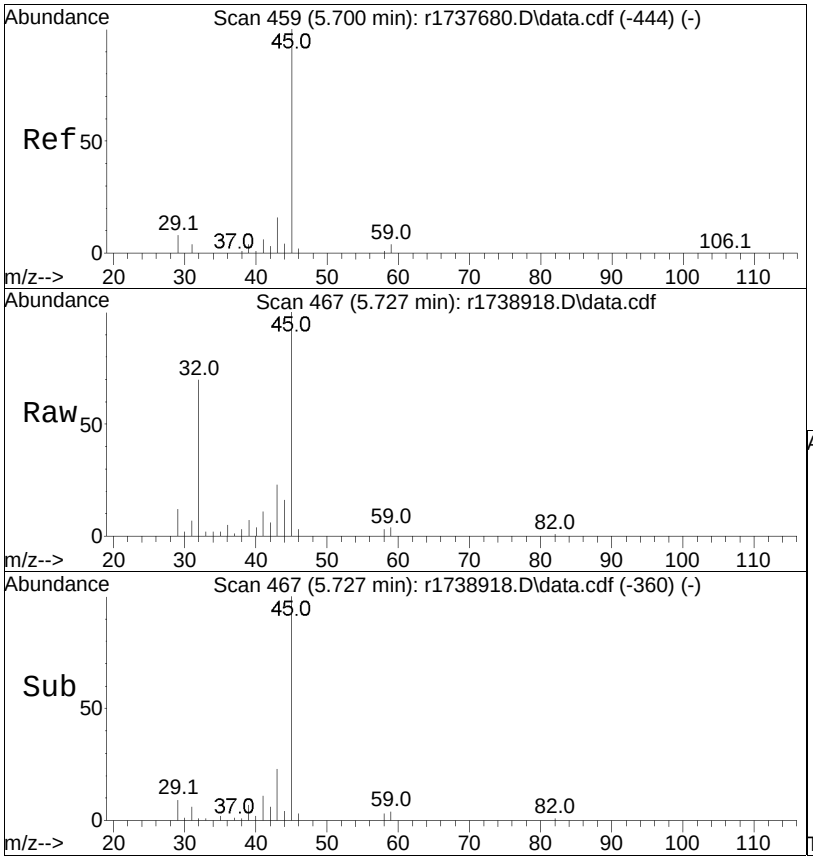


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 5.640 min Scan# 441
Delta R.T. 0.010 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion:101 Resp: 6140

Ion	Ratio	Lower	Upper
101	100		
103	60.8	51.2	76.8

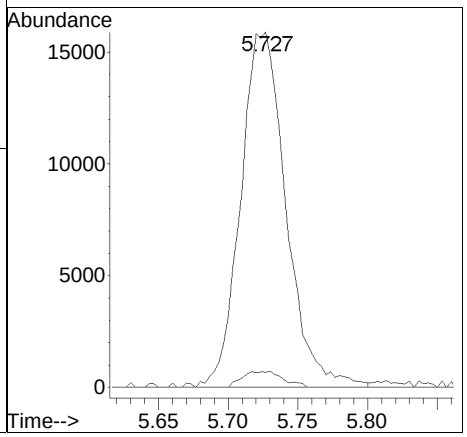


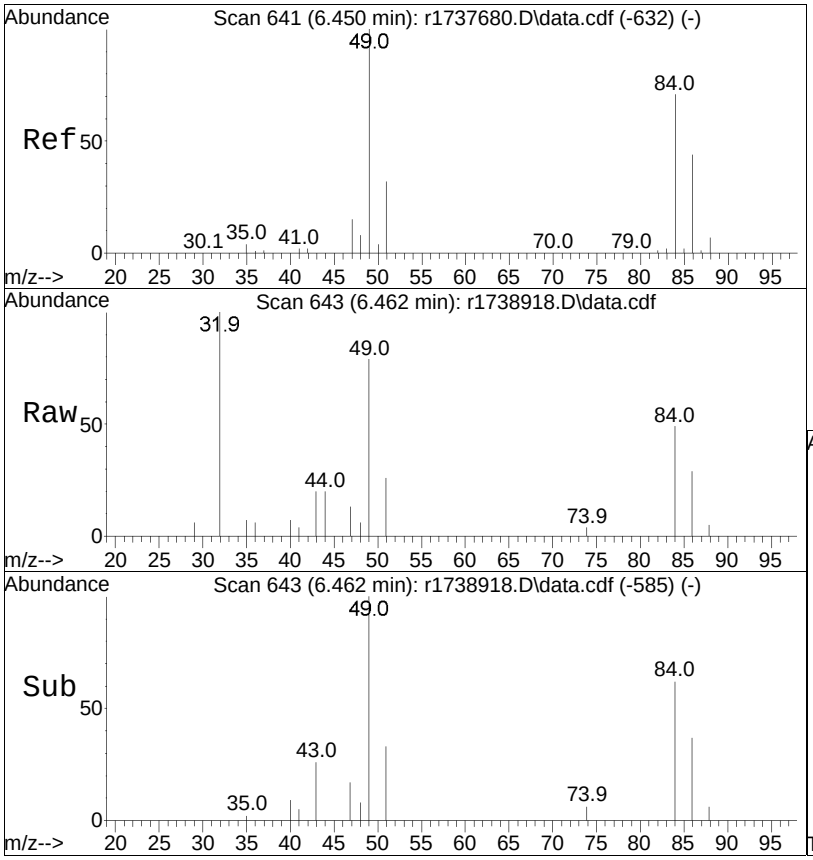


#22
isopropyl alcohol
Concen: 1.35 ppbV
RT: 5.727 min Scan# 467
Delta R.T. 0.027 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 45 Resp: 35987

Ion	Ratio	Lower	Upper
45	100		
59	4.3	3.4	5.2

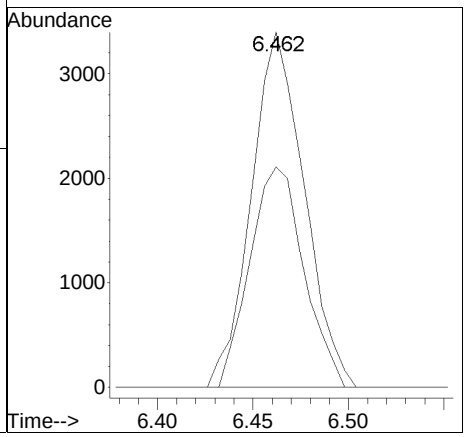


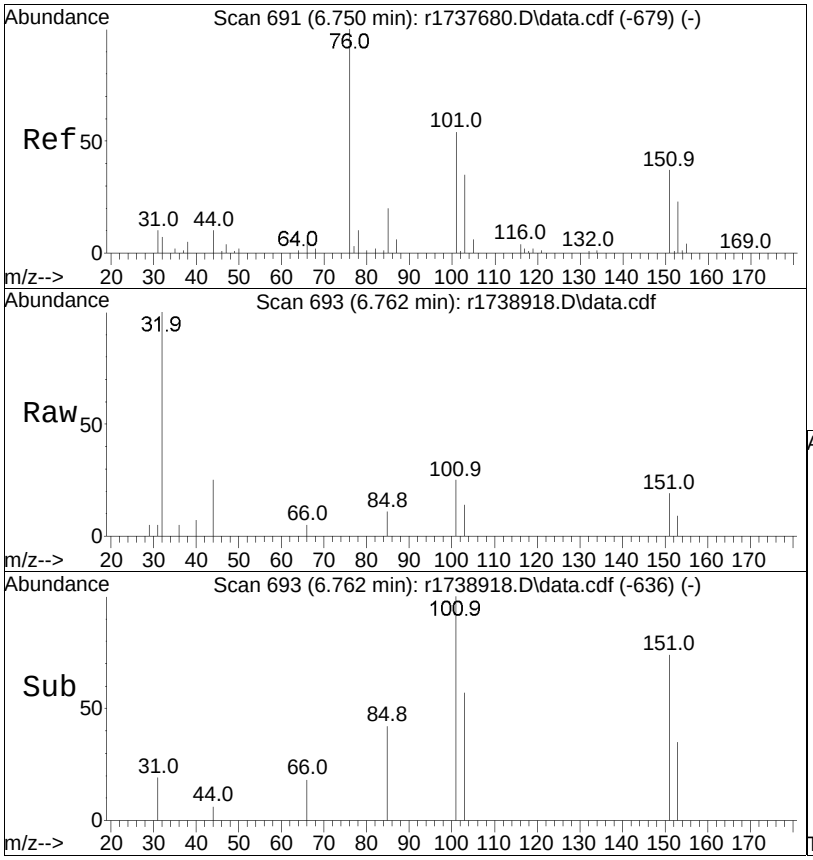


#28
methylene chloride
Concen: 0.29 ppbV
RT: 6.462 min Scan# 643
Delta R.T. 0.012 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 49 Resp: 6559

Ion	Ratio	Lower	Upper
49	100		
84	62.0	56.7	85.1

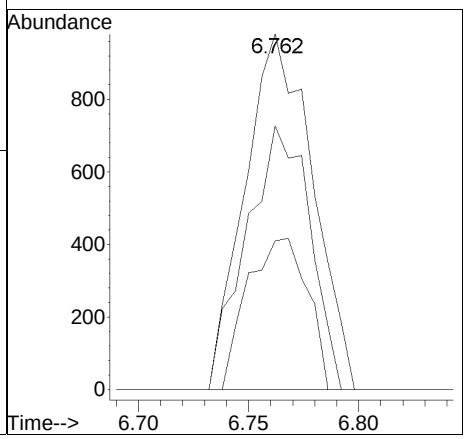


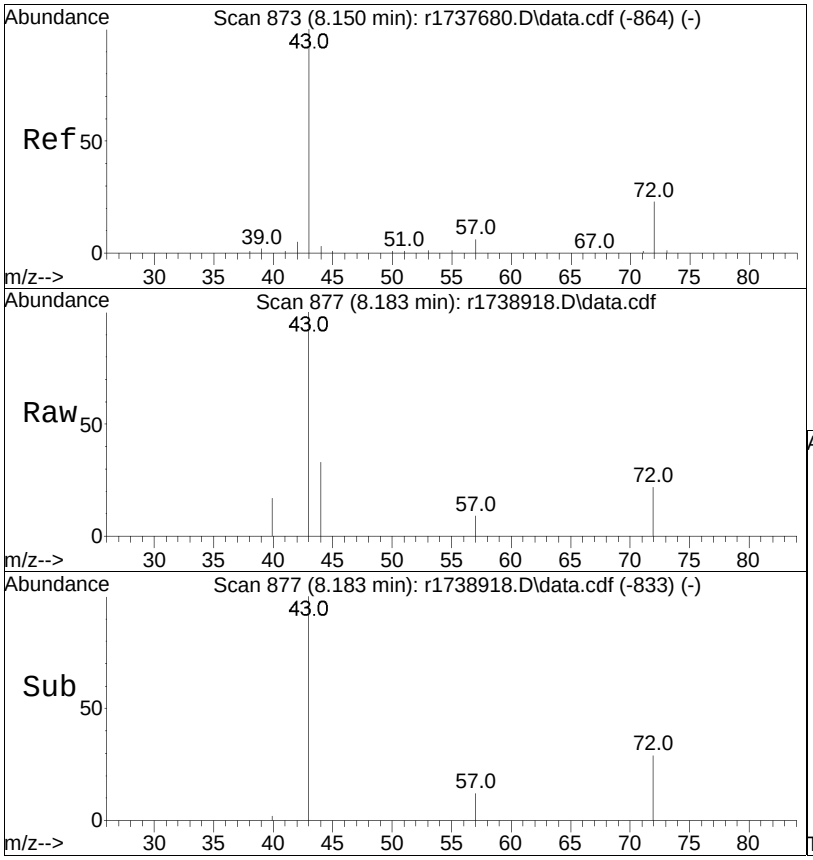


#31
Freon 113
Concen: 0.06 ppbV
RT: 6.762 min Scan# 693
Delta R.T. 0.012 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion:101 Resp: 2091

Ion	Ratio	Lower	Upper
101	100		
85	41.8	30.5	45.7
151	74.2	56.0	84.0

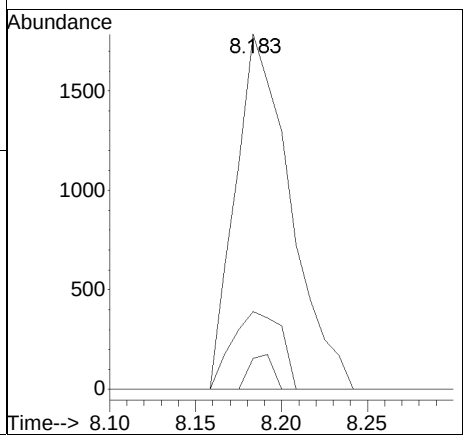


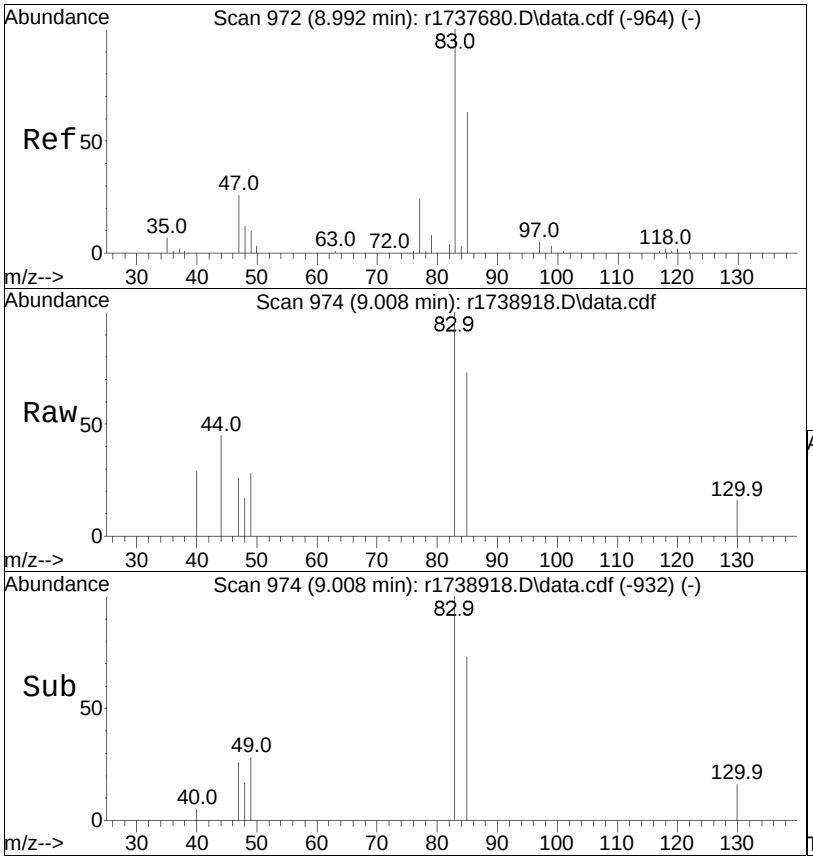


#36
2-butanone
Concen: 0.10 ppbV
RT: 8.183 min Scan# 877
Delta R.T. 0.033 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 43 Resp: 3980

Ion	Ratio	Lower	Upper
43	100		
72	21.9	18.3	27.5
57	8.7	5.0	7.6#

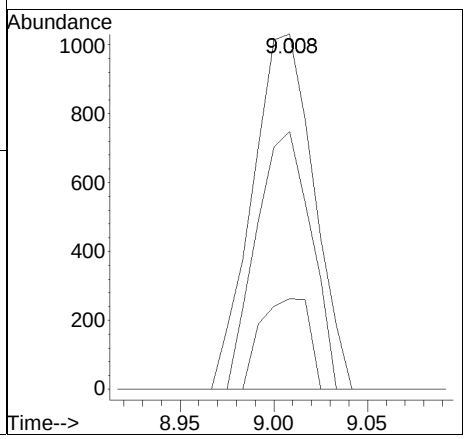


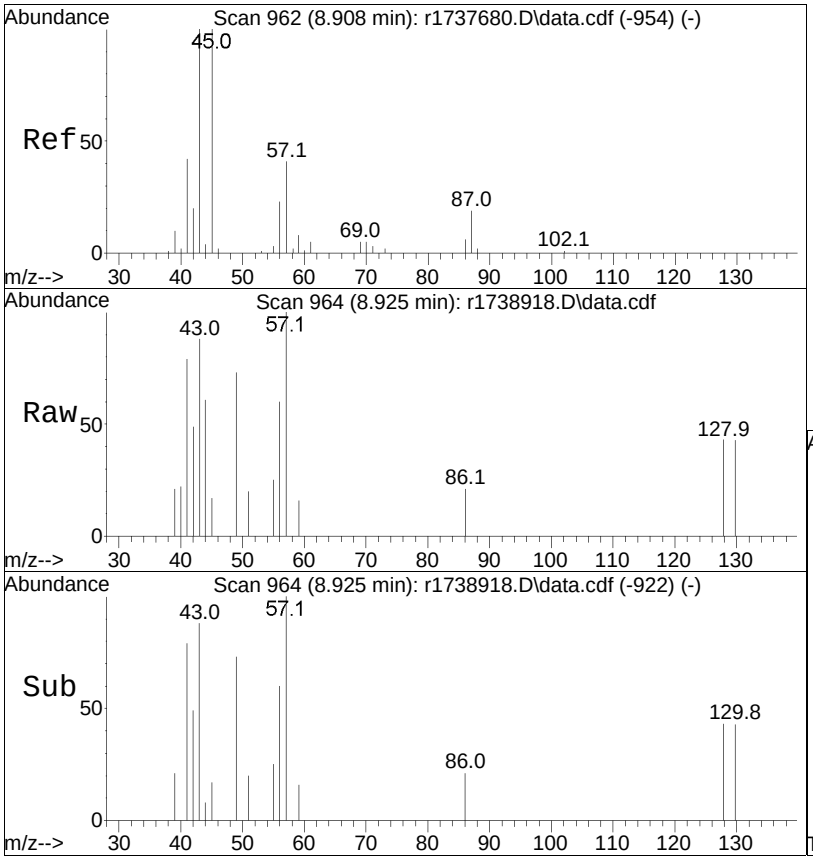


#39
chloroform
Concen: 0.07 ppbV
RT: 9.008 min Scan# 974
Delta R.T. 0.017 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 83 Resp: 2353

Ion	Ratio	Lower	Upper
83	100		
85	72.6	50.8	76.2
47	25.5	21.0	31.6

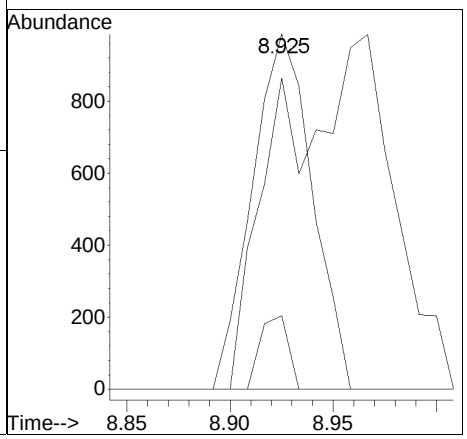


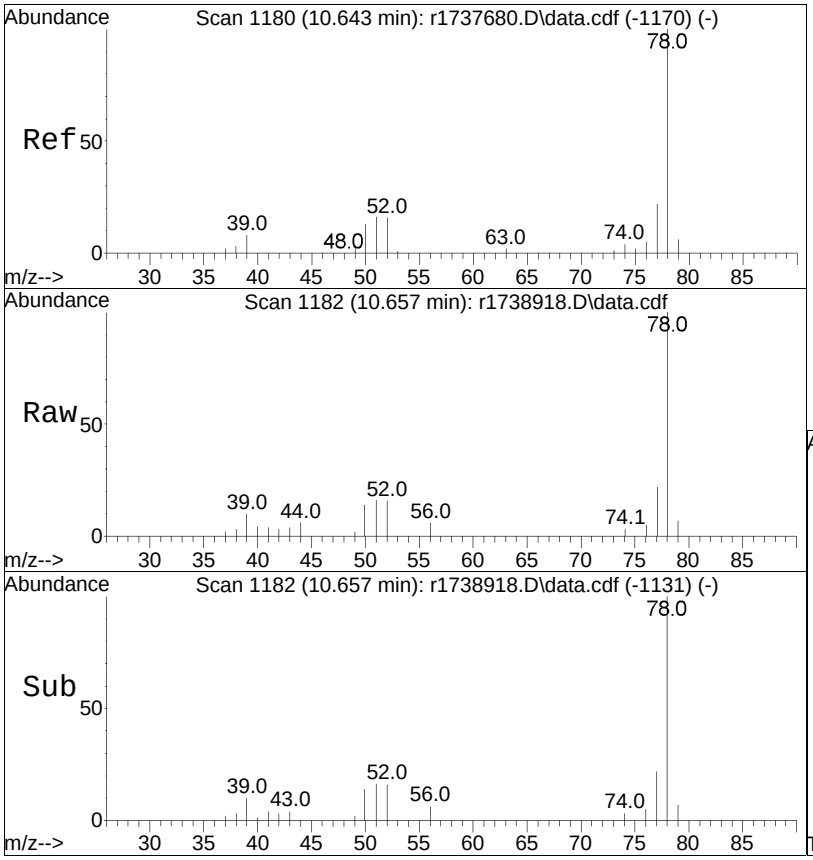


#44
hexane
Concen: 0.07 ppbV
RT: 8.925 min Scan# 964
Delta R.T. 0.017 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 57 Resp: 2005

Ion	Ratio	Lower	Upper
57	100		
43	87.6	197.0	295.6#
86	20.7	12.6	19.0#

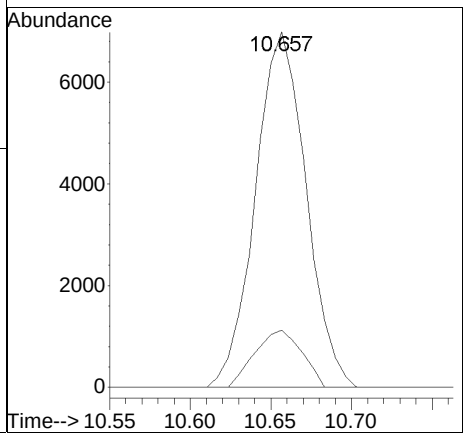


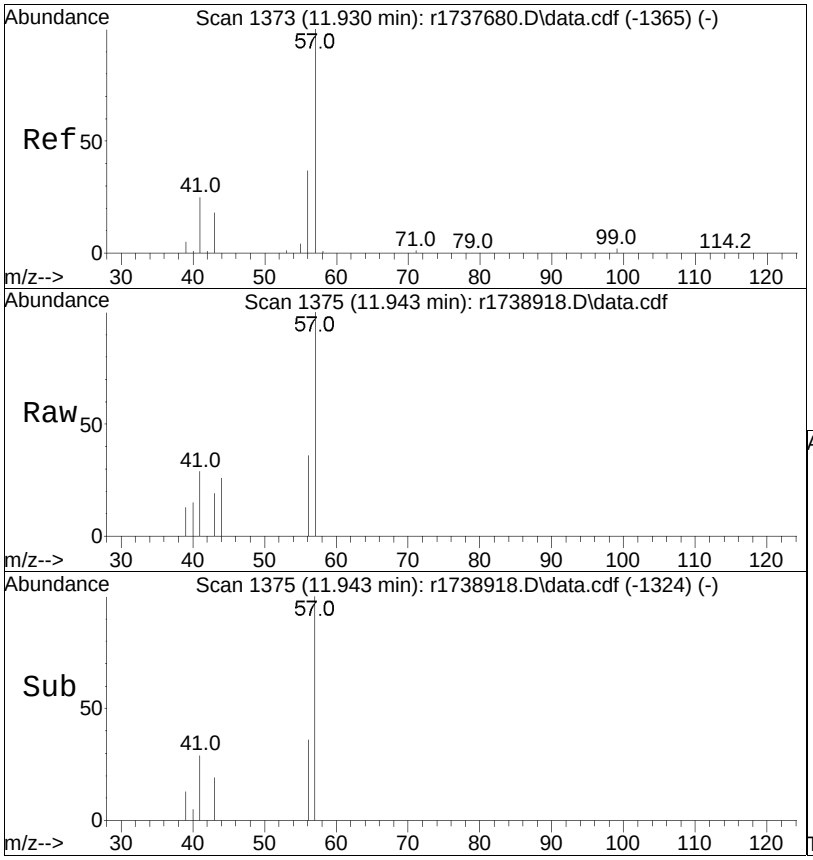


#50
benzene
Concen: 0.23 ppbV
RT: 10.657 min Scan# 1182
Delta R.T. 0.013 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 78 Resp: 15286

Ion	Ratio	Lower	Upper
78	100		
52	16.1	12.7	19.1

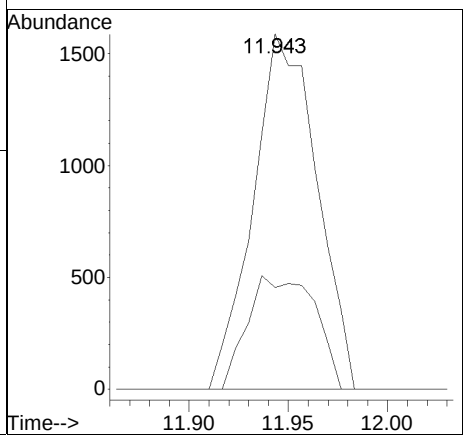


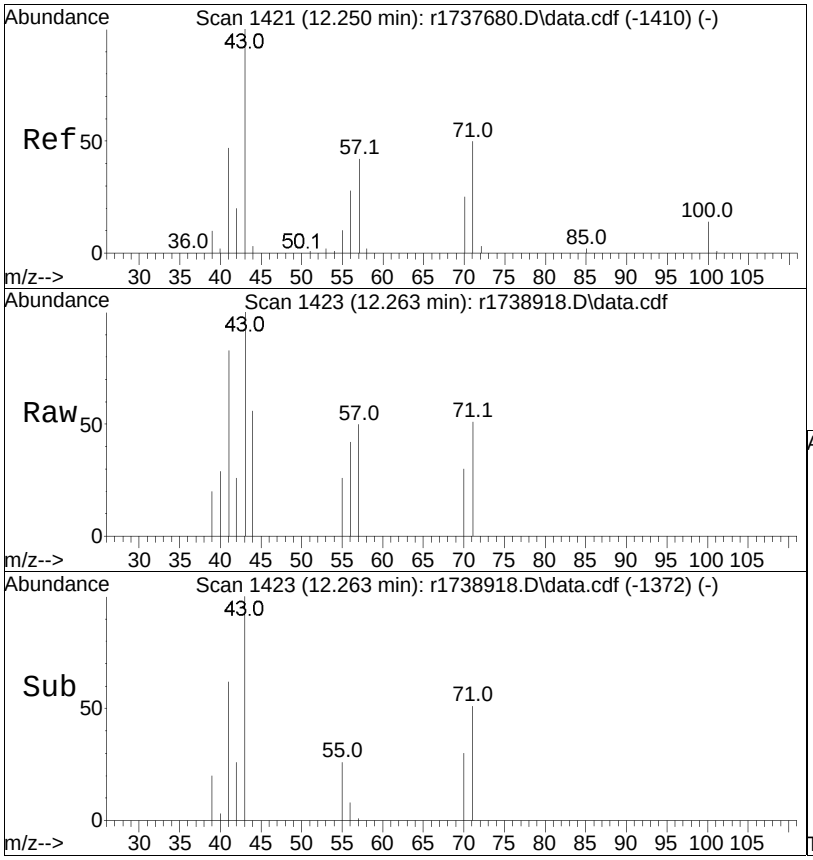


#60
2,2,4-trimethylpentane
Concen: 0.04 ppbV
RT: 11.943 min Scan# 1375
Delta R.T. 0.013 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 57 Resp: 3550

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.0	6.0#
41	28.7	19.8	29.6

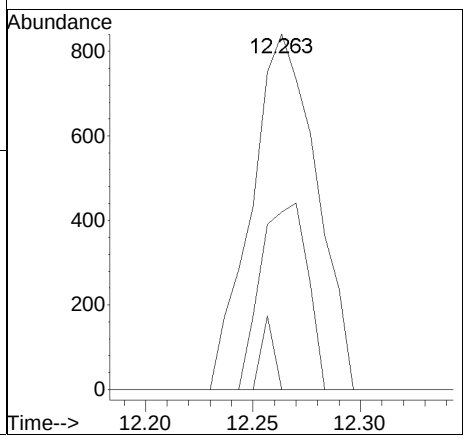


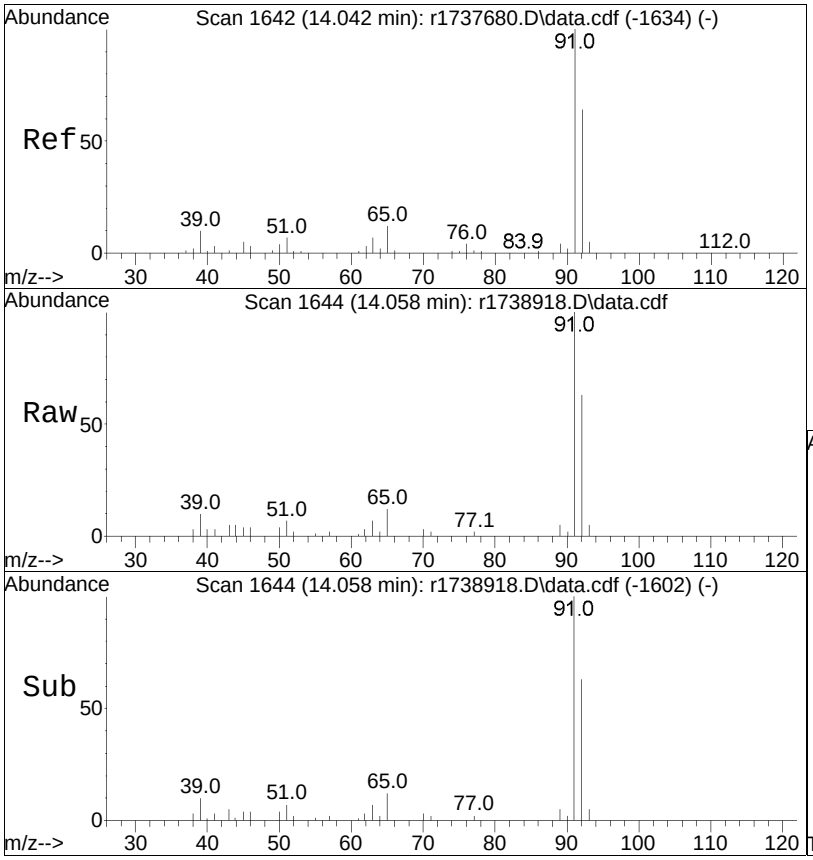


#62
heptane
Concen: 0.04 ppbV
RT: 12.263 min Scan# 1423
Delta R.T. 0.013 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 43 Resp: 1770

Ion	Ratio	Lower	Upper
43	100		
57	49.9	33.5	50.3
100	0.0	11.3	16.9#

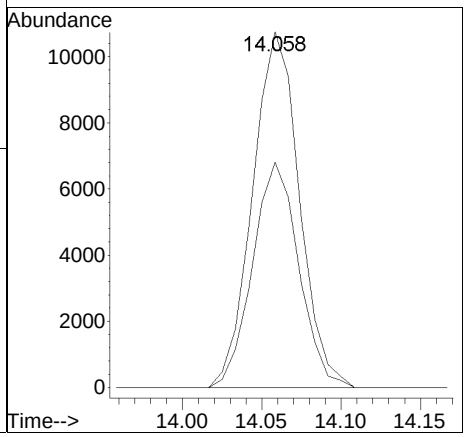


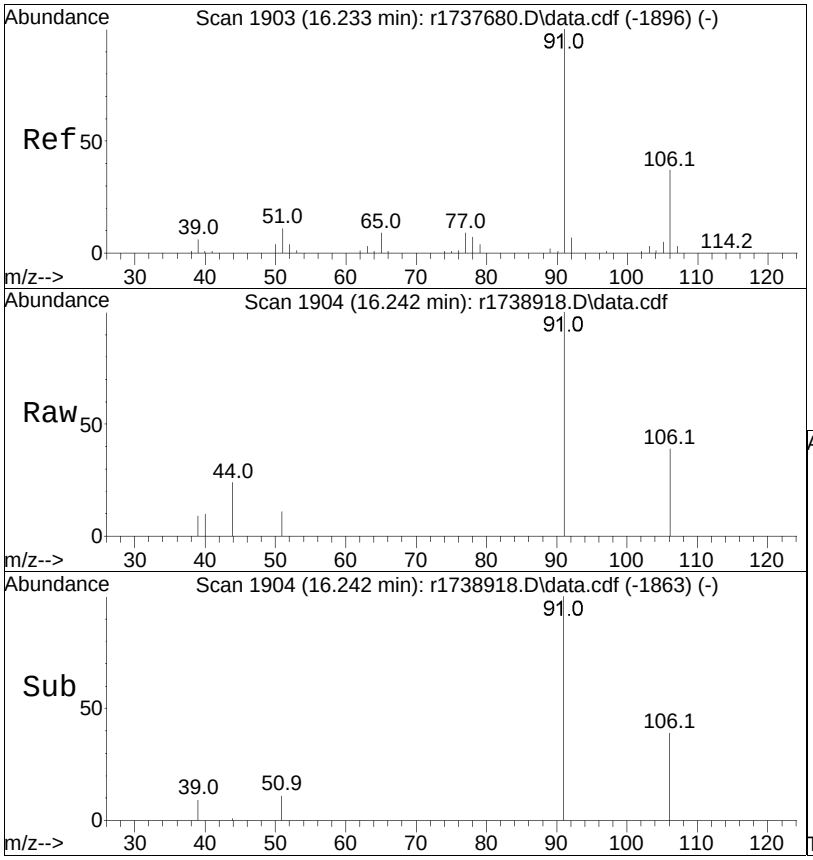


#68
toluene
Concen: 0.30 ppbV
RT: 14.058 min Scan# 1644
Delta R.T. 0.017 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 91 Resp: 21995

Ion	Ratio	Lower	Upper
91	100		
92	63.4	51.2	76.8

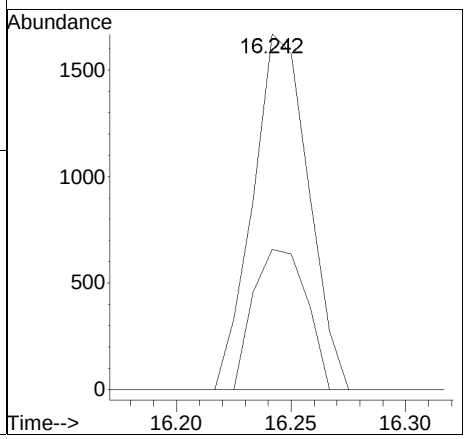


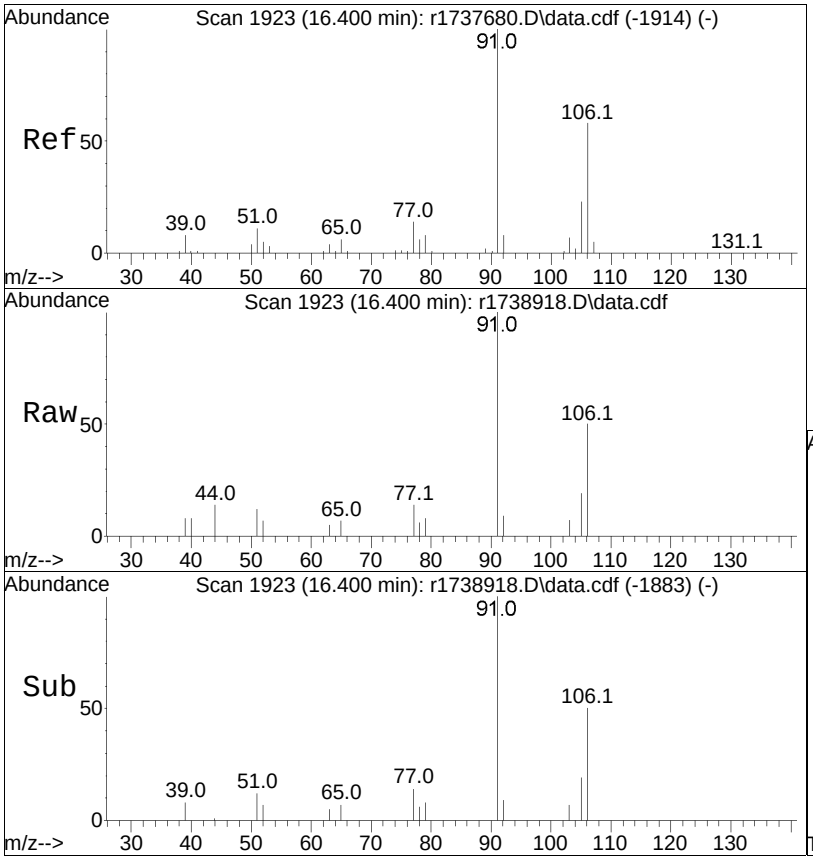


#81
ethylbenzene
Concen: 0.03 ppbV
RT: 16.242 min Scan# 1904
Delta R.T. 0.008 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 91 Resp: 2821

Ion	Ratio	Lower	Upper
91	100		
106	39.4	29.4	44.0

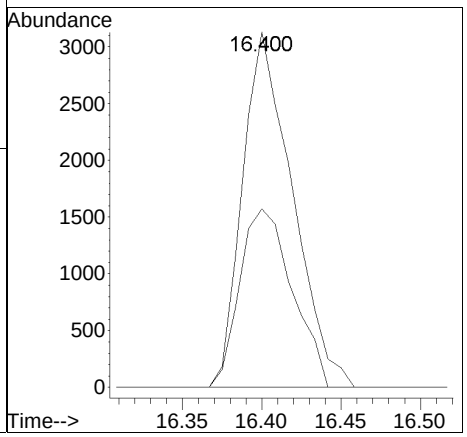


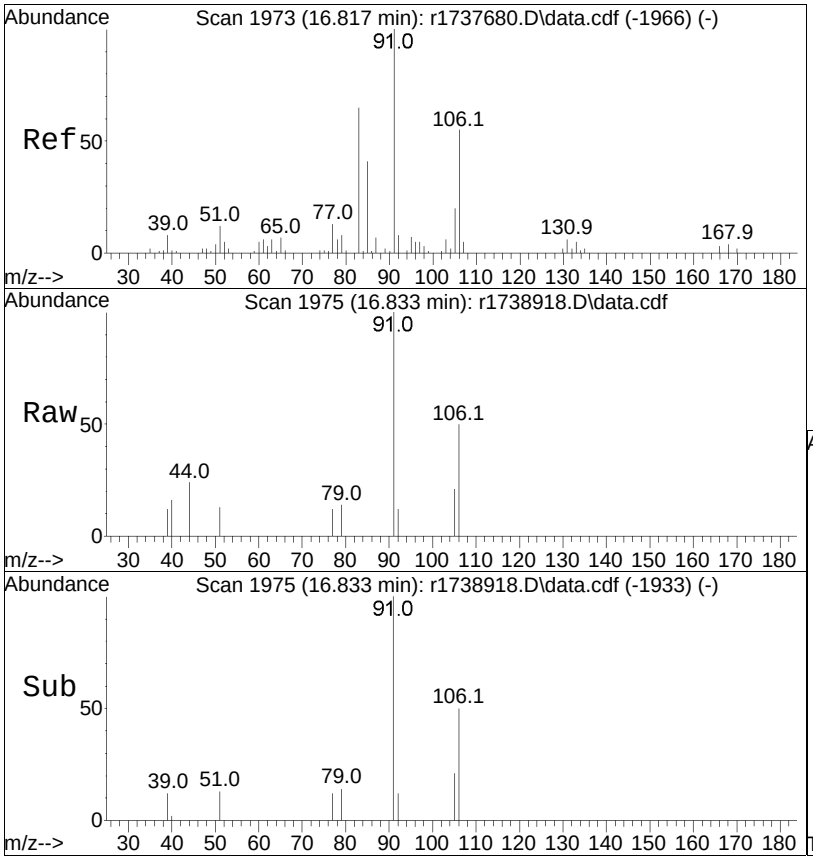


#83
m+p-xylene
Concen: 0.10 ppbV
RT: 16.400 min Scan# 1923
Delta R.T. 0.000 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 91 Resp: 6855

Ion	Ratio	Lower	Upper
91	100		
106	50.2	46.1	69.1

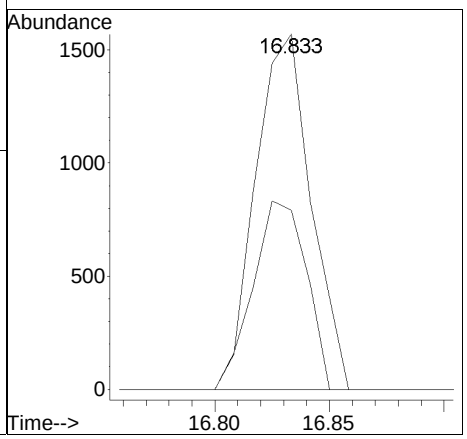




#87
o-xylene
Concen: 0.04 ppbV
RT: 16.833 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1738918.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 91 Resp: 2636

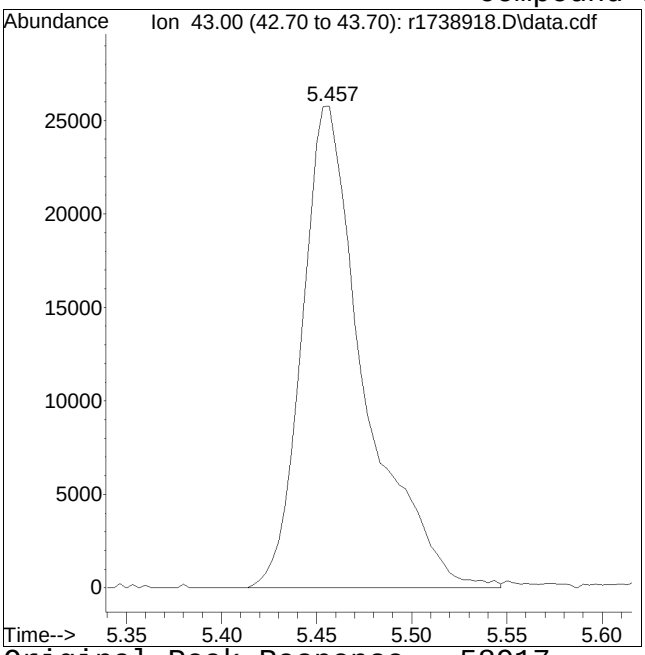
Ion	Ratio	Lower	Upper
91	100		
106	50.4	44.2	66.4



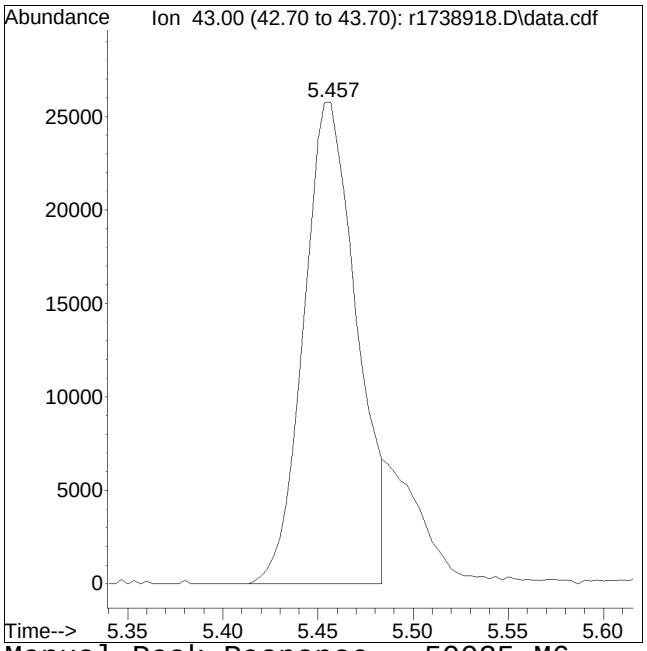
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738918.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2020 0:6: 8 Instrument :
Sample : L2409224-01,3,250,250 Quant Date : 2/25/2024 6:54 am

Compound #19: acetone



Original Peak Response = 58917



Manual Peak Response = 50035 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329319.D
Acq On : 25 Feb 2024 7:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-10,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:32:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	246896	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		88.11%	
43) 1,4-difluorobenzene	11.180	114	651541	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		84.80%	
67) chlorobenzene-D5	15.917	54	126138	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		88.13%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.888	85	15881	0.552	ppbV	99
6) chloromethane	4.050	50	8316	0.587	ppbV	97
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.416	54	447	0.033	ppbV	81
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.022	31	61250	6.226	ppbV	86
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.533	43	36923M6	1.403	ppbV	
21) trichlorofluoromethane	5.707	101	6473	0.216	ppbV	95
22) isopropyl alcohol	5.827	45	18383	0.573	ppbV	99
27) tertiary butyl alcohol	6.526		0	N.D.		
28) methylene chloride	6.544	49	4094	0.213	ppbV	94
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.850		0	N.D.		
31) Freon 113	6.844	101	2552	0.076	ppbV #	93
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	8.308	43	3176	0.075	ppbV #	91
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.100		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		
42) 1,2-dichloroethane	9.942		0	N.D.		
44) hexane	9.017	57	2237	0.076	ppbV #	22
50) benzene	10.753	78	9359	0.175	ppbV #	88
53) cyclohexane	11.073	56	1098	0.036	ppbV	94
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329319.D
Acq On : 25 Feb 2024 7:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-10,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:32:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

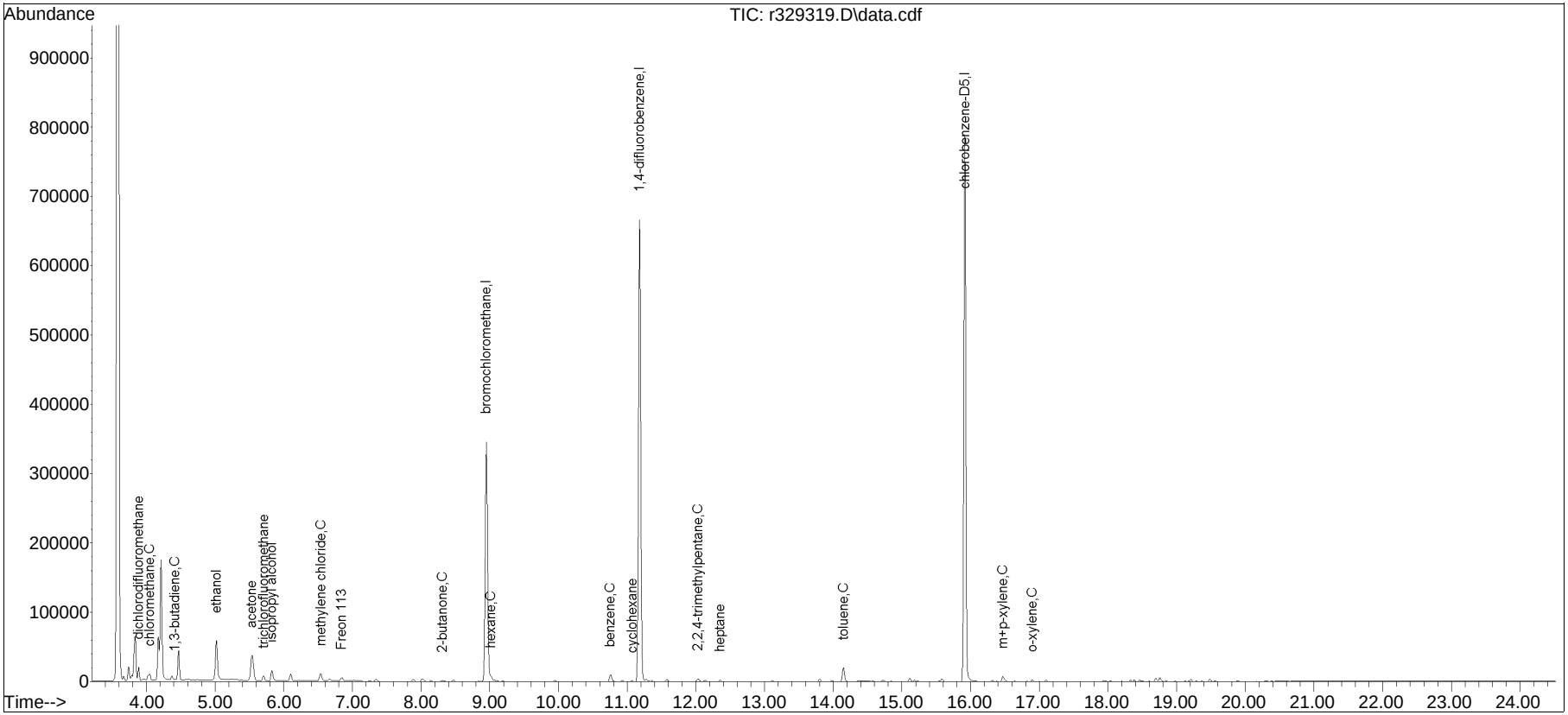
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	5099	0.052	ppbV #	89
62) heptane	12.353	43	1349	0.039	ppbV #	84
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	0.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	18694	0.215	ppbV	95
72) 2-hexanone	14.375		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.317		0	N.D.		
83) m+p-xylene	16.467	91	7430	0.086	ppbV	92
84) bromoform	0.000		0	N.D.		
85) styrene	16.817		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	2766	0.032	ppbV	91
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	18.383		0	N.D.		
101) Benzyl Chloride	18.383		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

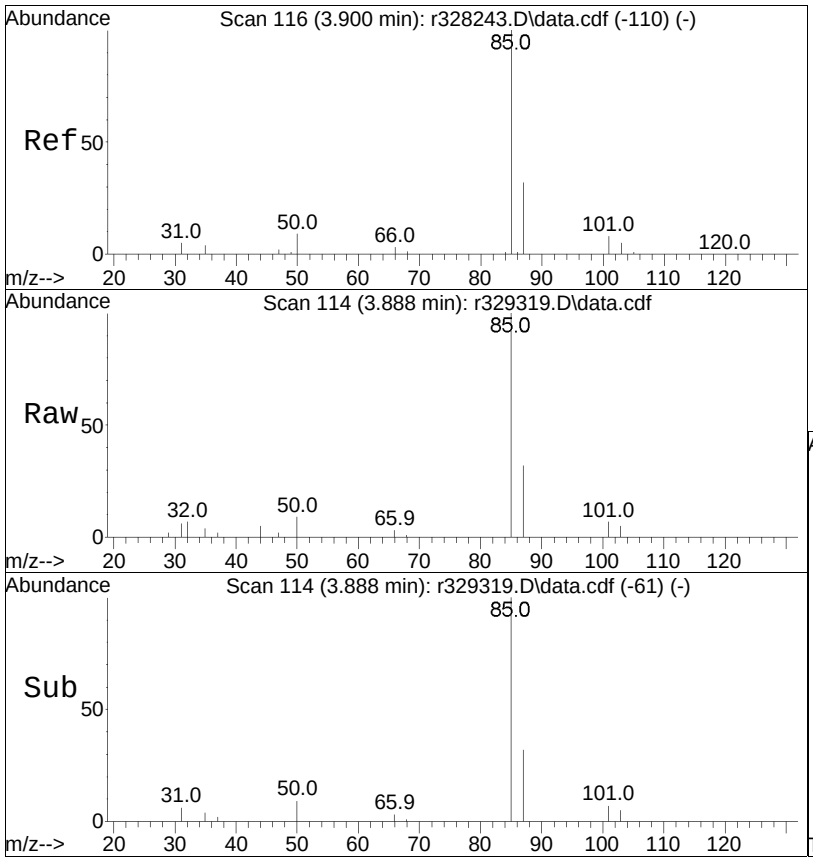
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329319.D
Acq On : 25 Feb 2024 7:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-10,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:32:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

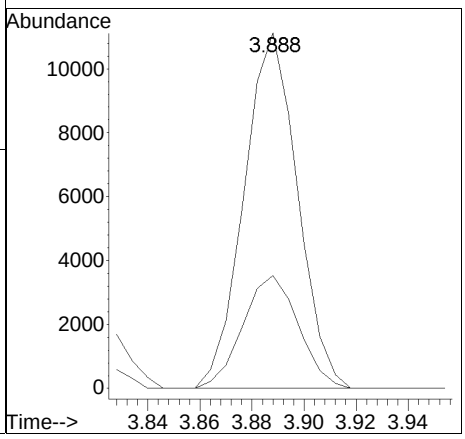


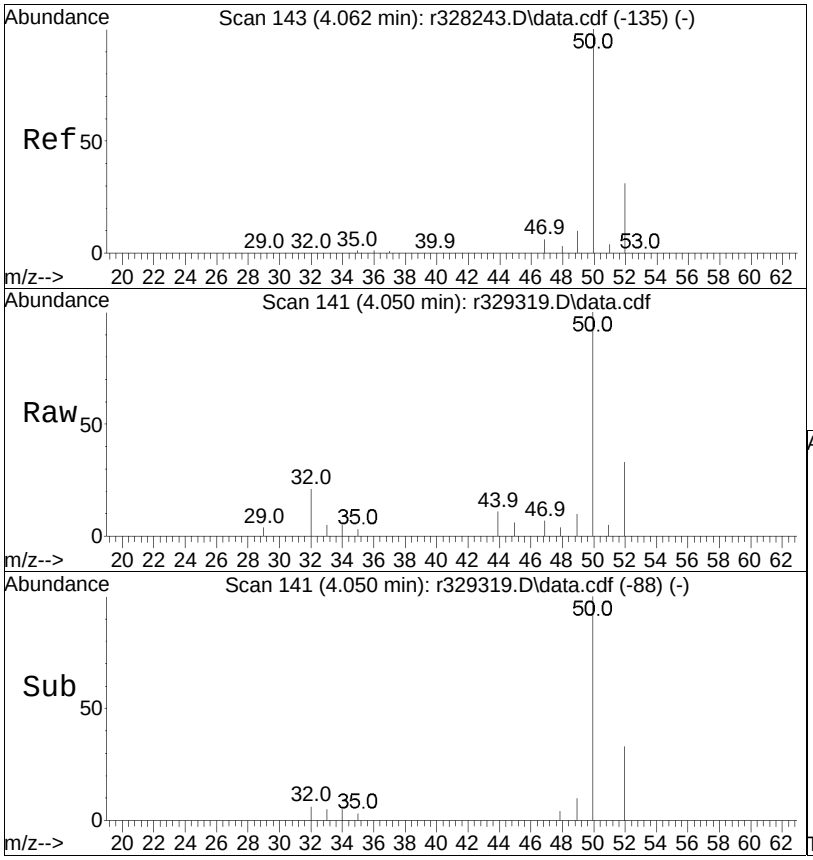


#5
dichlorodifluoromethane
Concen: 0.55 ppbV
RT: 3.888 min Scan# 114
Delta R.T. -0.012 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 85 Resp: 15881

Ion	Ratio	Lower	Upper
85	100		
87	31.8	25.7	38.5

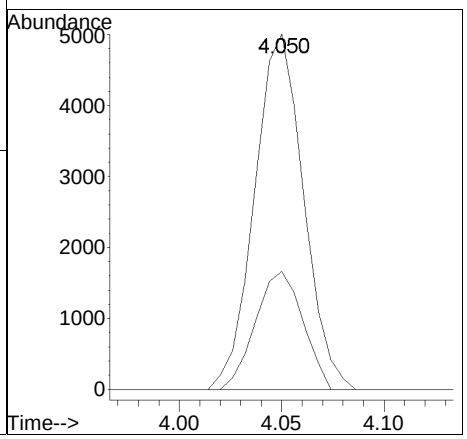


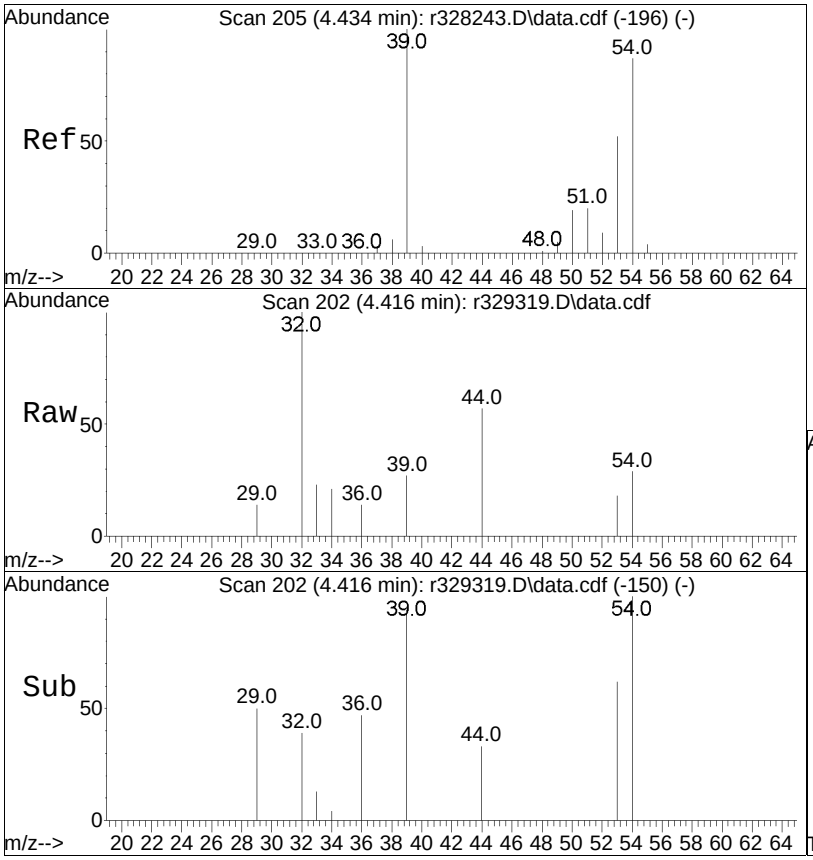


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.050 min Scan# 141
Delta R.T. -0.012 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 50 Resp: 8316

Ion	Ratio	Lower	Upper
50	100		
52	33.2	25.0	37.6

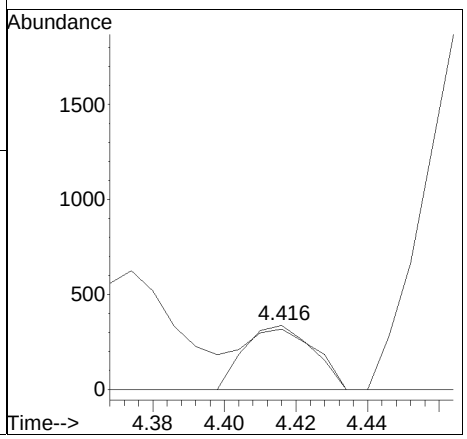


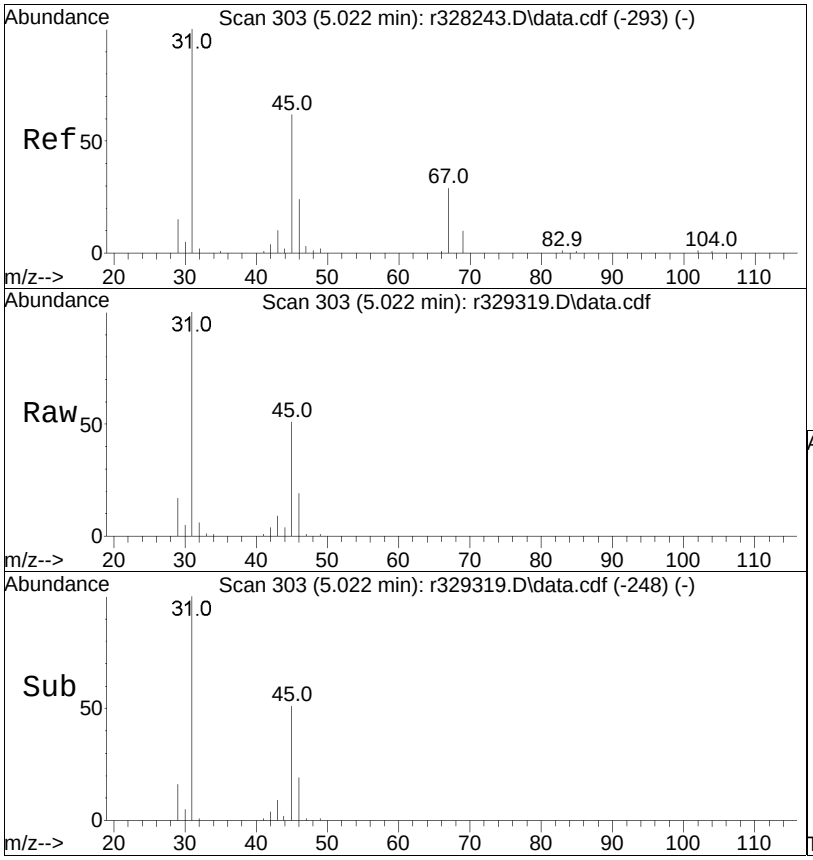


#10
1,3-butadiene
Concen: 0.03 ppbV
RT: 4.416 min Scan# 202
Delta R.T. -0.018 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 54 Resp: 447

Ion	Ratio	Lower	Upper
54	100		
39	94.4	92.3	138.5

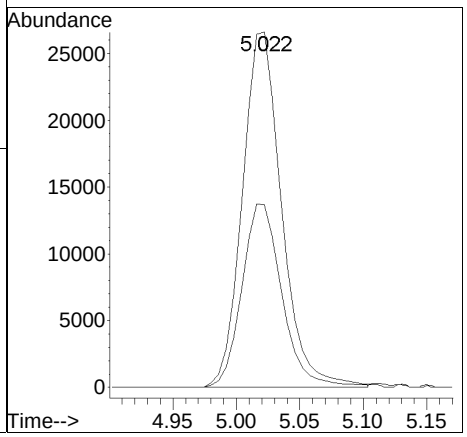


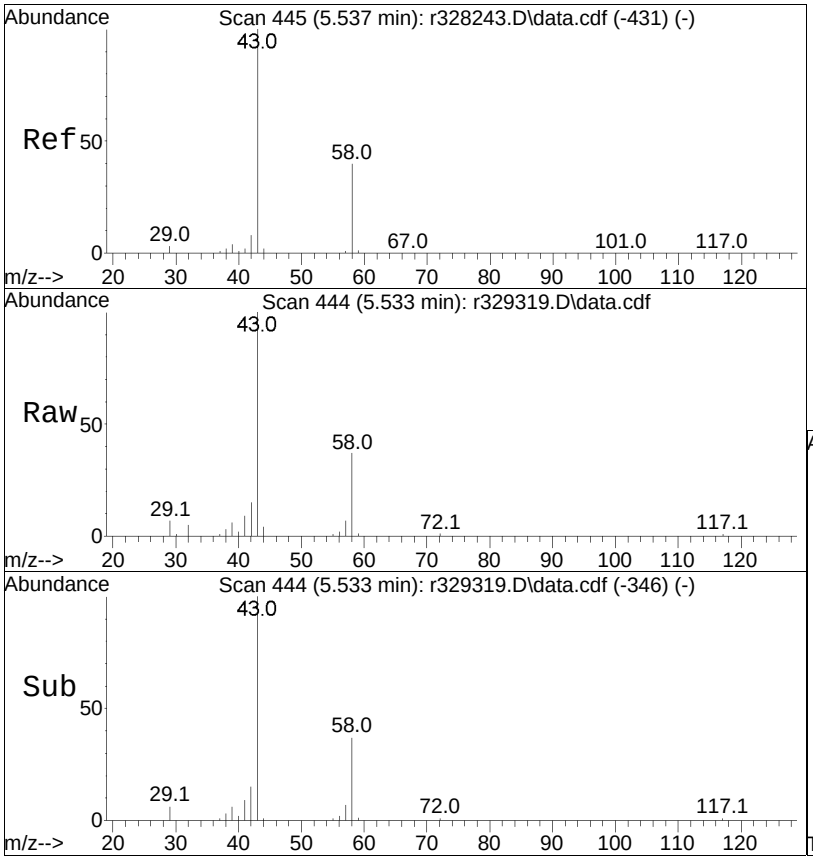


#15
ethanol
Concen: 6.23 ppbV
RT: 5.022 min Scan# 303
Delta R.T. 0.000 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 31 Resp: 61250

Ion	Ratio	Lower	Upper
31	100		
45	51.3	49.8	74.6

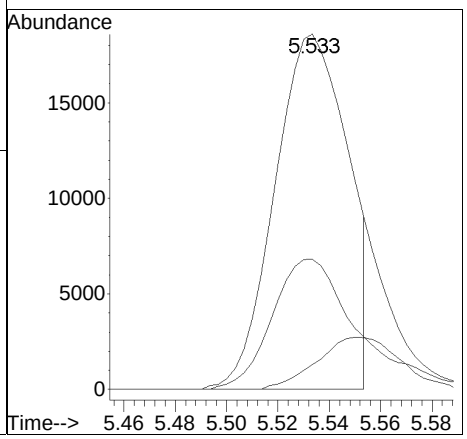


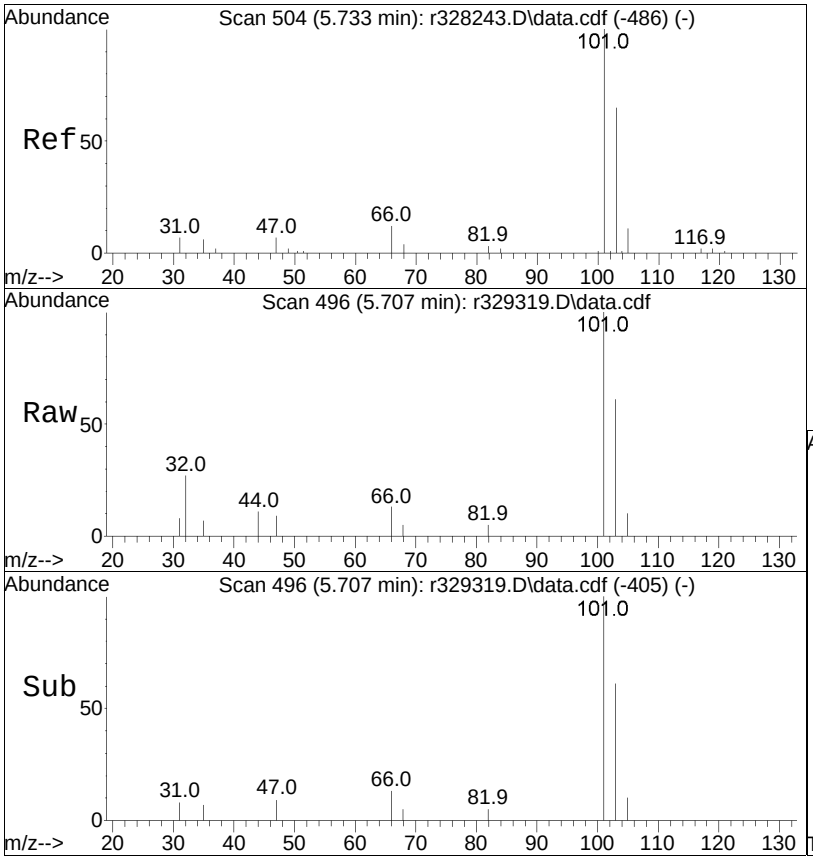


#19
acetone
Concen: 1.40 ppbV m
RT: 5.533 min Scan# 444
Delta R.T. -0.003 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 43 Resp: 36923

Ion	Ratio	Lower	Upper
43	100		
58	36.6	31.9	47.9
57	7.0	0.9	1.3#

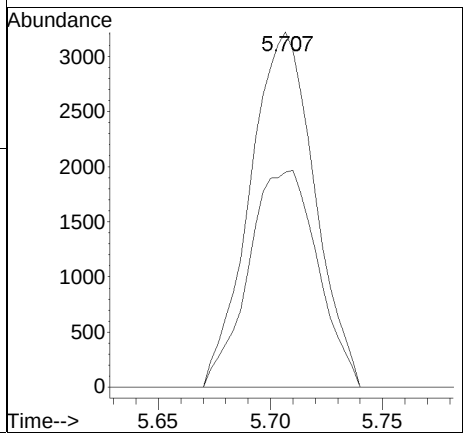


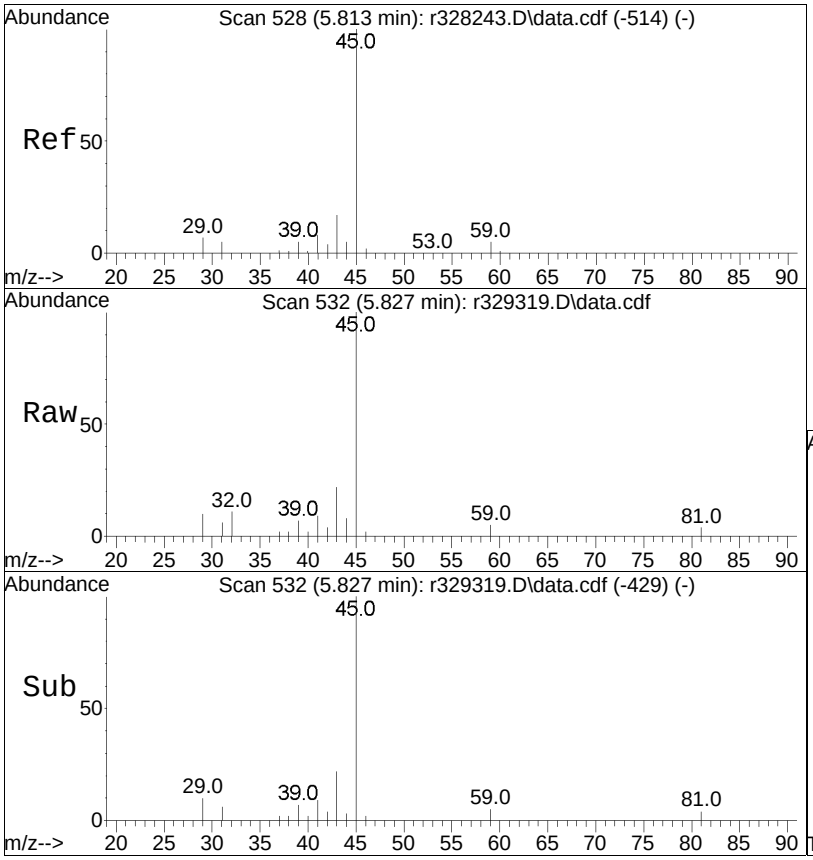


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 5.707 min Scan# 496
Delta R.T. -0.027 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion:101 Resp: 6473

Ion	Ratio	Lower	Upper
101	100		
103	60.6	51.7	77.5

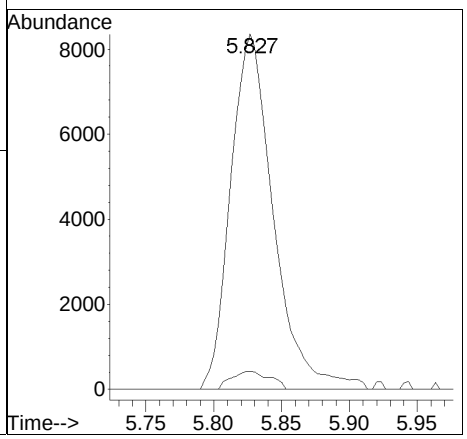


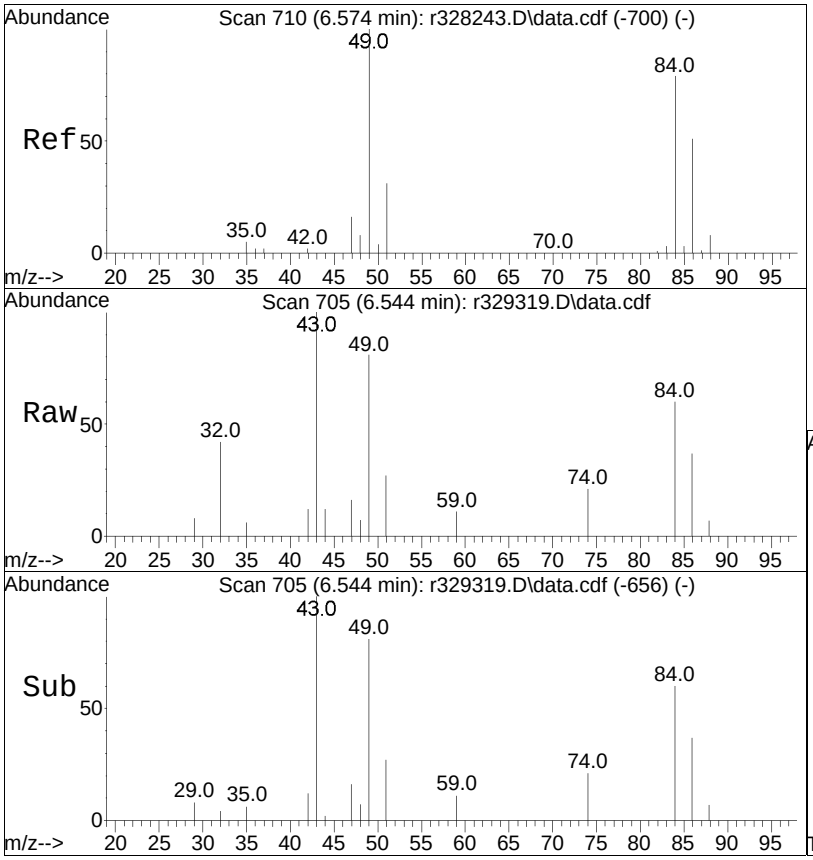


#22
isopropyl alcohol
Concen: 0.57 ppbV
RT: 5.827 min Scan# 532
Delta R.T. 0.013 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 45 Resp: 18383

Ion	Ratio	Lower	Upper
45	100		
59	5.1	3.7	5.5

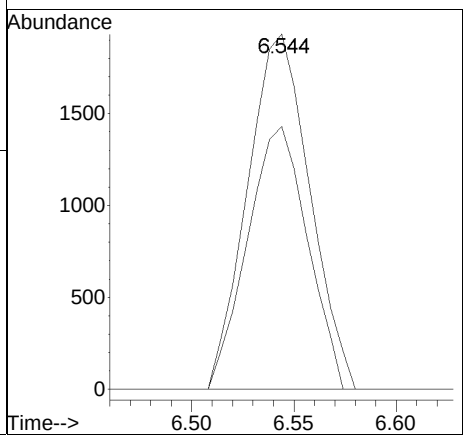


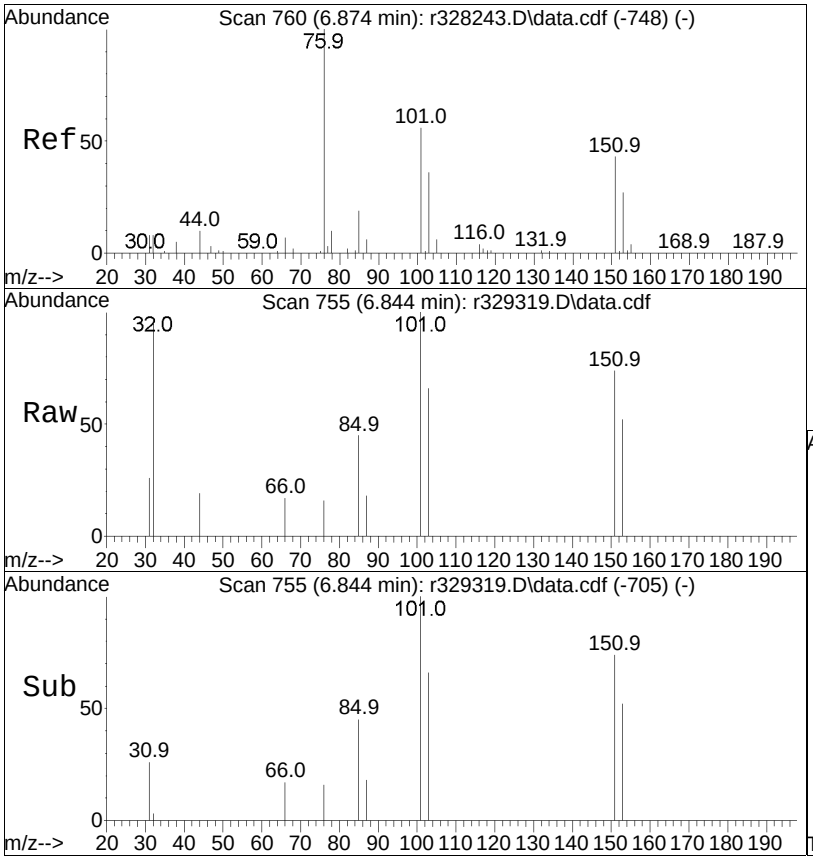


#28
methylene chloride
Concen: 0.21 ppbV
RT: 6.544 min Scan# 705
Delta R.T. -0.030 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 49 Resp: 4094

Ion	Ratio	Lower	Upper
49	100		
84	74.0	63.3	94.9

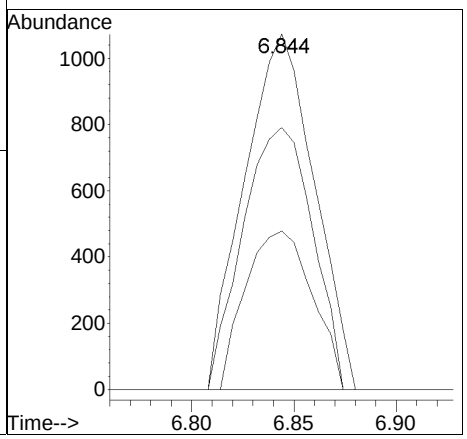


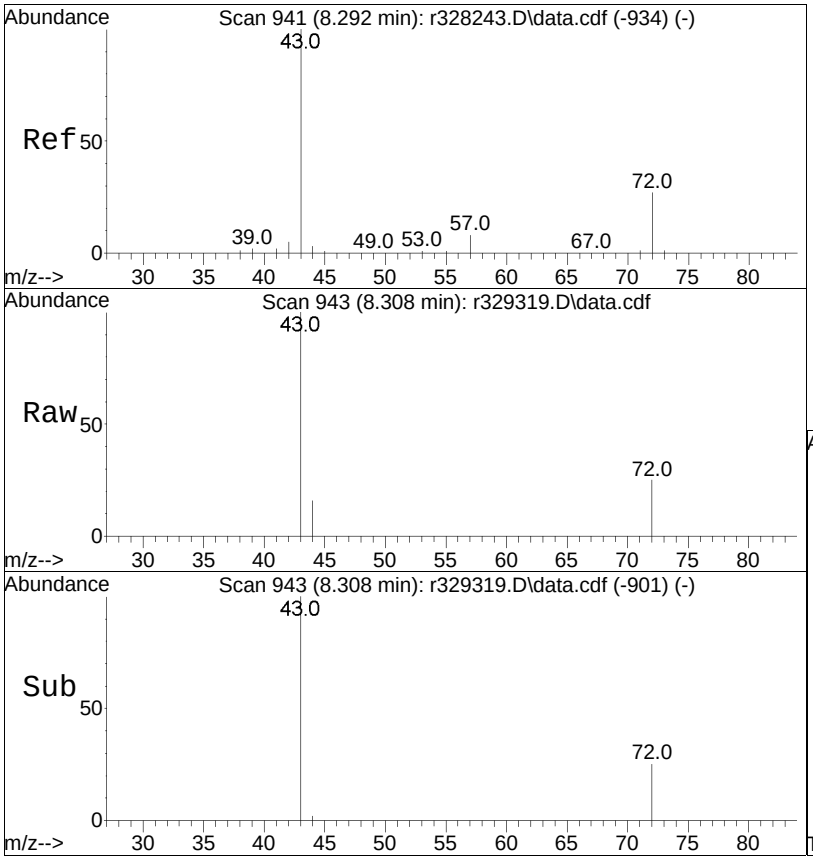


#31
Freon 113
Concen: 0.08 ppbV
RT: 6.844 min Scan# 755
Delta R.T. -0.030 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion:101 Resp: 2552

Ion	Ratio	Lower	Upper
101	100		
85	44.5	27.9	41.9#
151	73.7	61.0	91.4

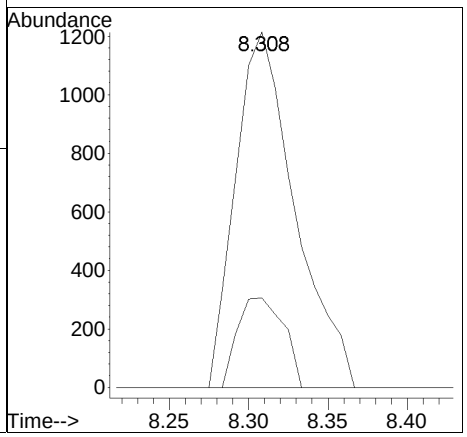


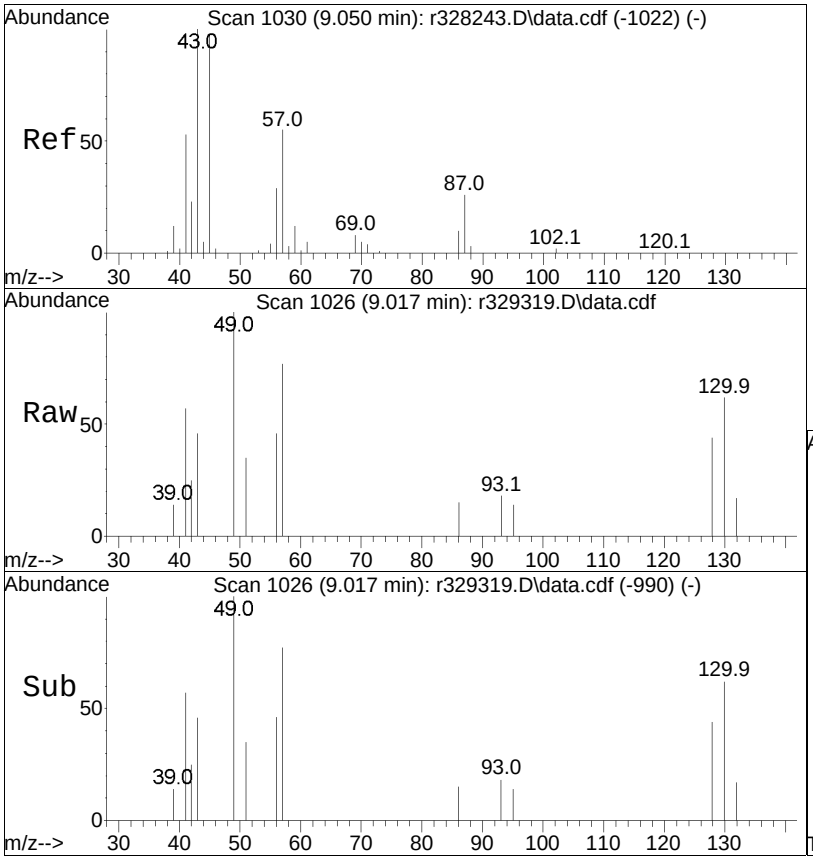


#36
2-butanone
Concen: 0.07 ppbV
RT: 8.308 min Scan# 943
Delta R.T. 0.017 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 43 Resp: 3176

Ion	Ratio	Lower	Upper
43	100		
72	25.2	21.9	32.9
57	0.0	6.6	9.8#

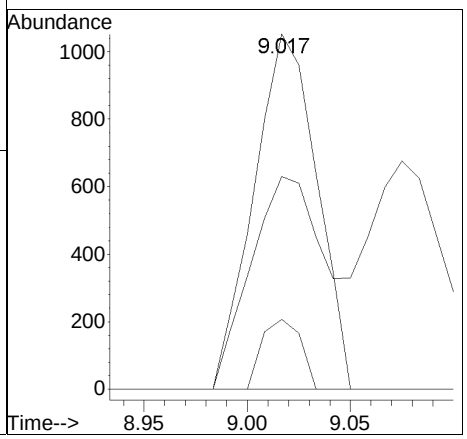


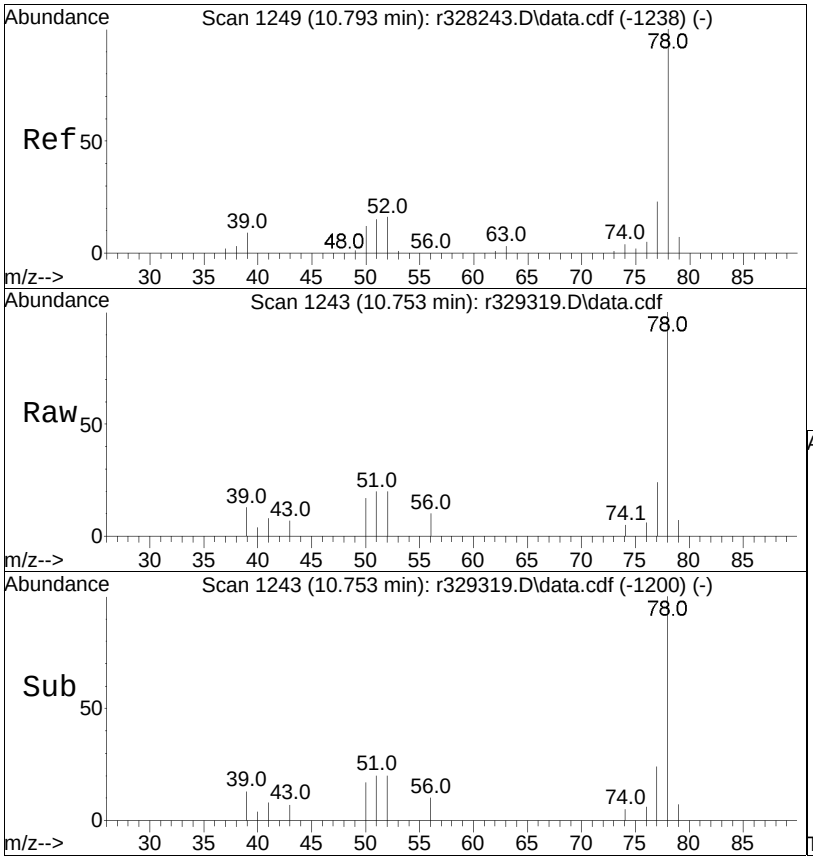


#44
hexane
Concen: 0.08 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 57 Resp: 2237

Ion	Ratio	Lower	Upper
57	100		
43	59.9	145.3	217.9#
86	19.7	14.3	21.5

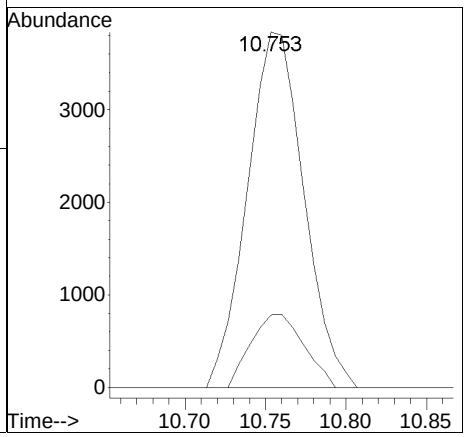


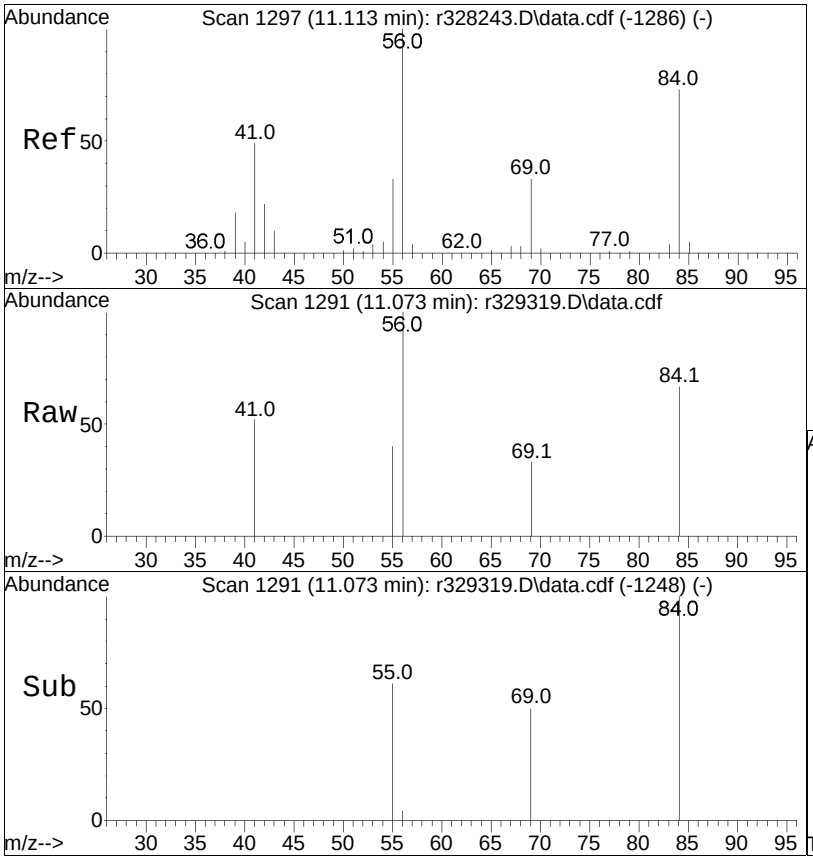


#50
benzene
Concen: 0.17 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 78 Resp: 9359

Ion	Ratio	Lower	Upper
78	100		
52	20.4	12.4	18.6#

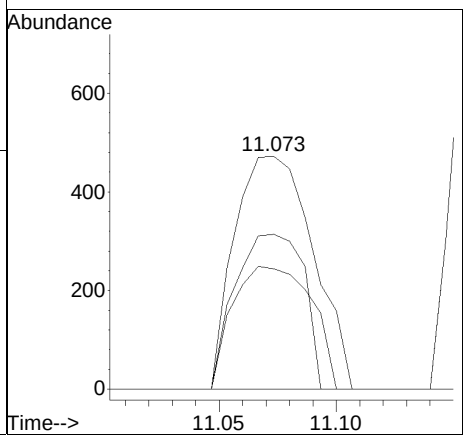


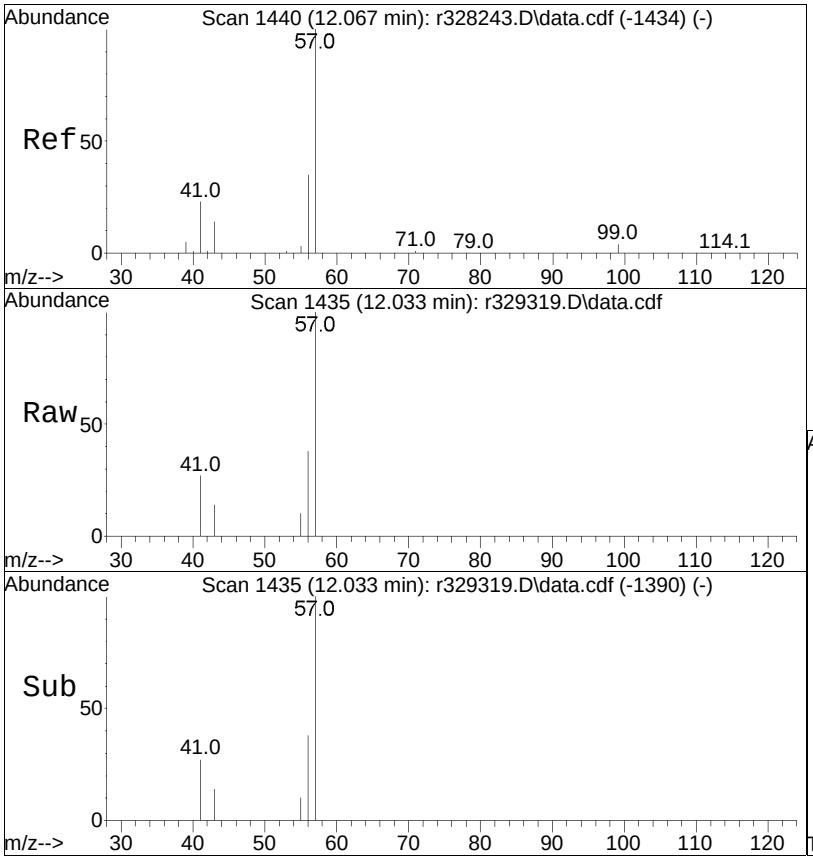


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 56 Resp: 1098

Ion	Ratio	Lower	Upper
56	100		
84	66.5	58.7	88.1
41	51.7	39.6	59.4

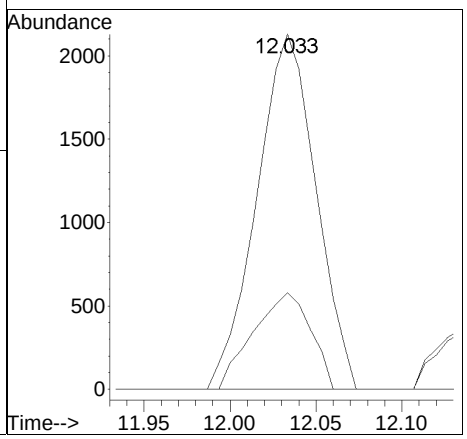


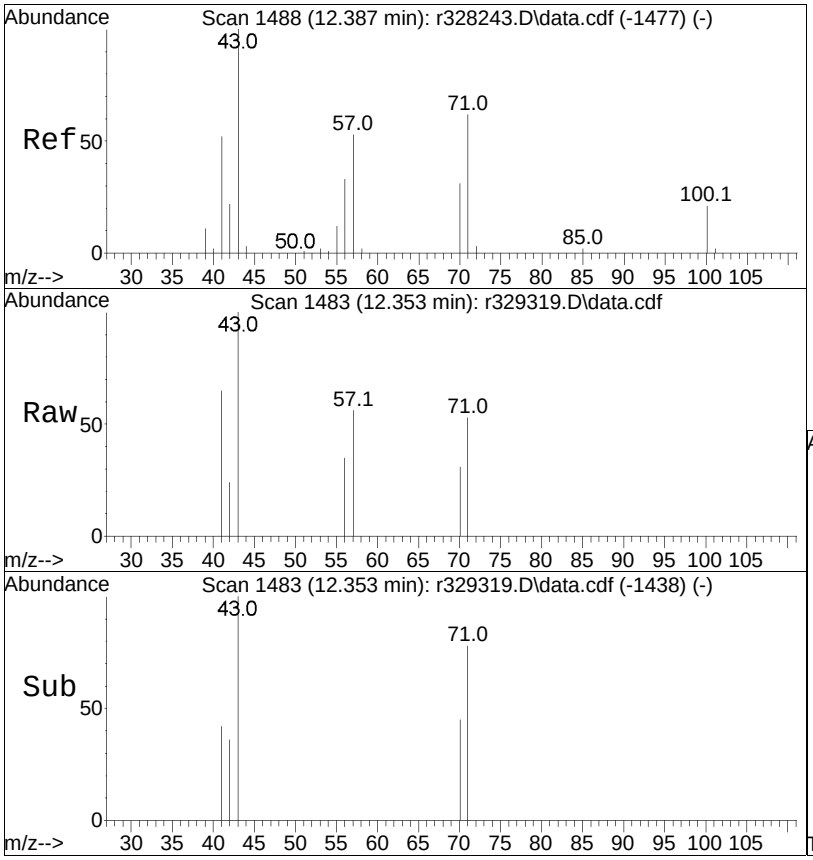


#60
2,2,4-trimethylpentane
Concen: 0.05 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 57 Resp: 5099

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	27.2	18.2	27.4

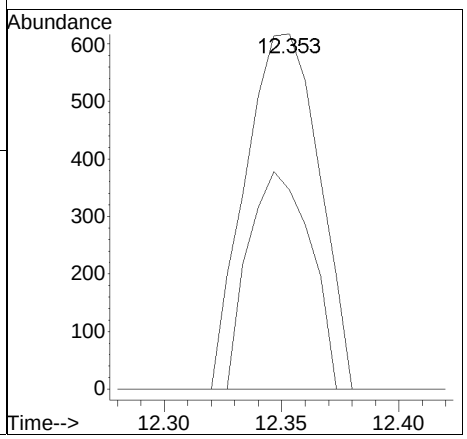


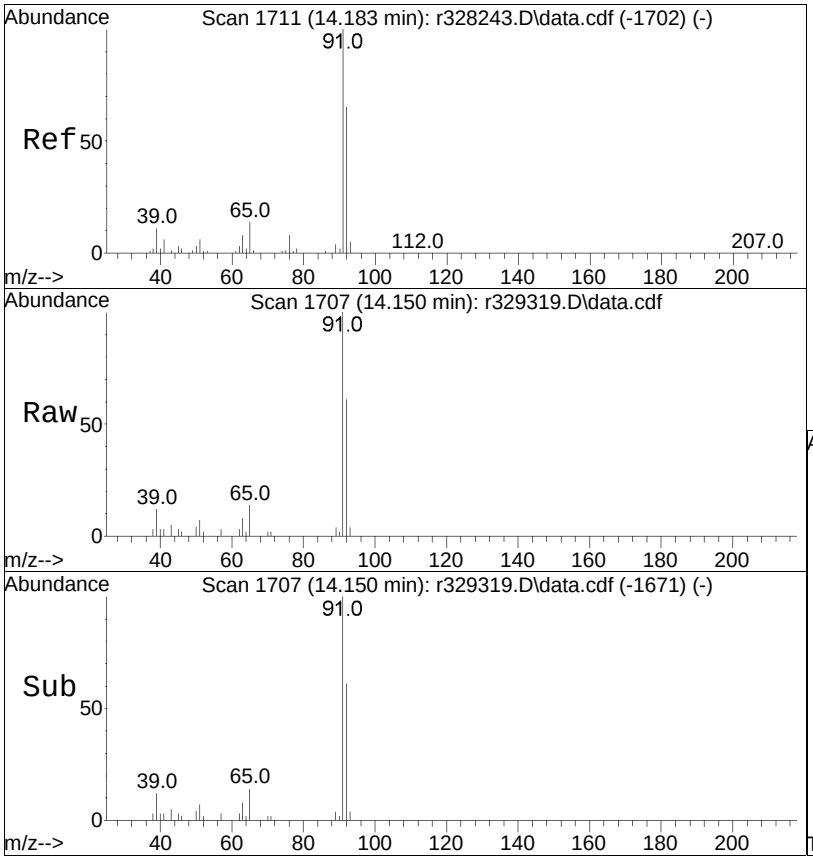


#62
heptane
Concen: 0.04 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 43 Resp: 1349

Ion	Ratio	Lower	Upper
43	100		
57	56.1	42.6	64.0
100	0.0	17.0	25.4#

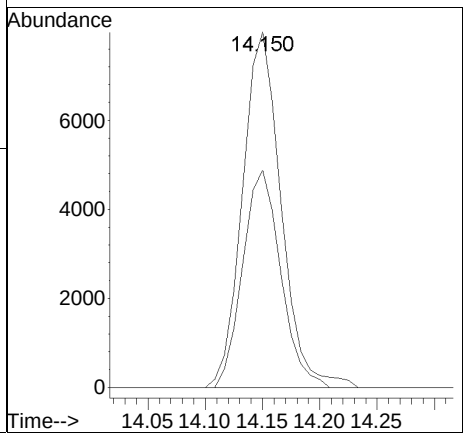


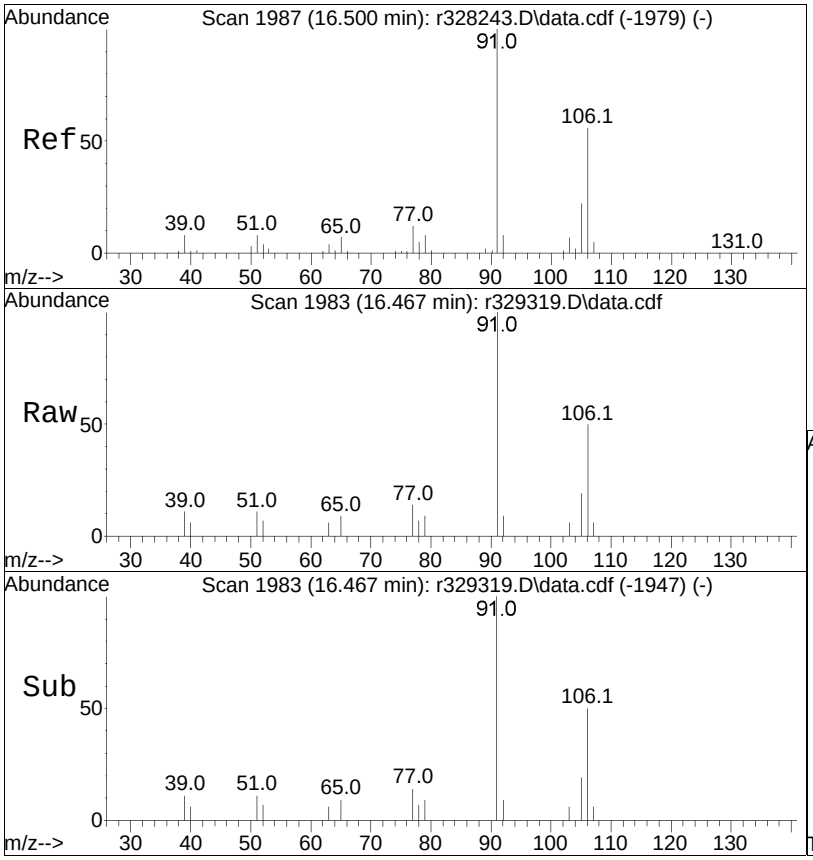


#68
toluene
Concen: 0.21 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 91 Resp: 18694

Ion	Ratio	Lower	Upper
91	100		
92	61.1	52.1	78.1

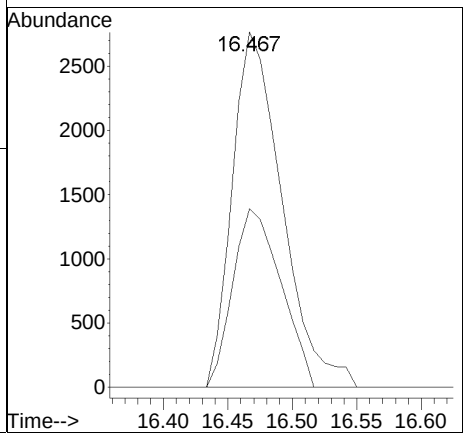


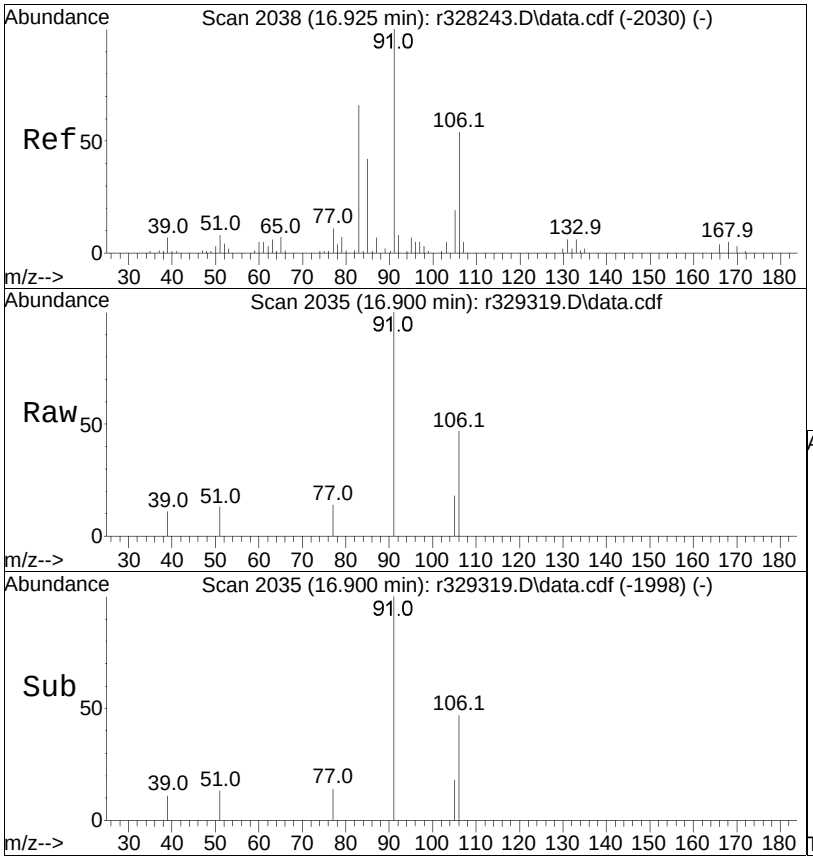


#83
m+p-xylene
Concen: 0.09 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 91 Resp: 7430

Ion	Ratio	Lower	Upper
91	100		
106	50.3	44.8	67.2

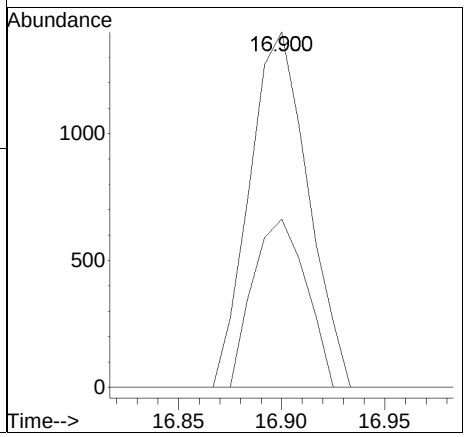




#87
o-xylene
Concen: 0.03 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329319.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion: 91 Resp: 2766

Ion	Ratio	Lower	Upper
91	100		
106	47.4	43.0	64.6

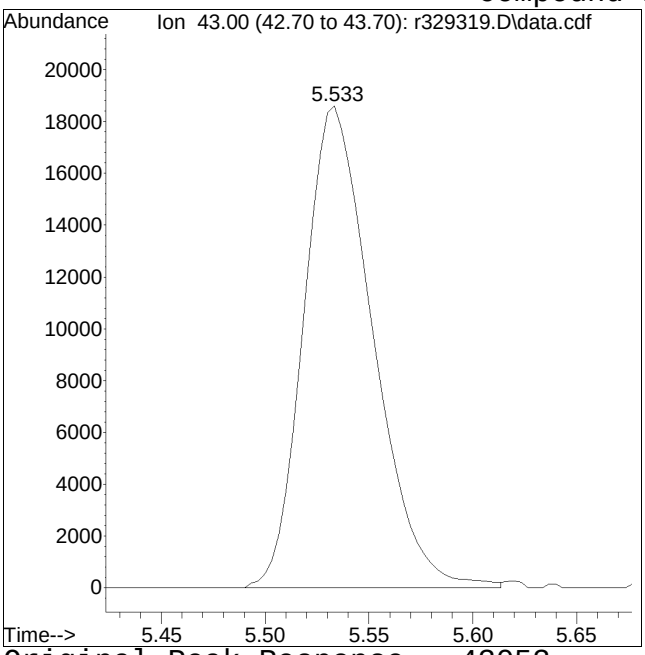


Manual Integration Report

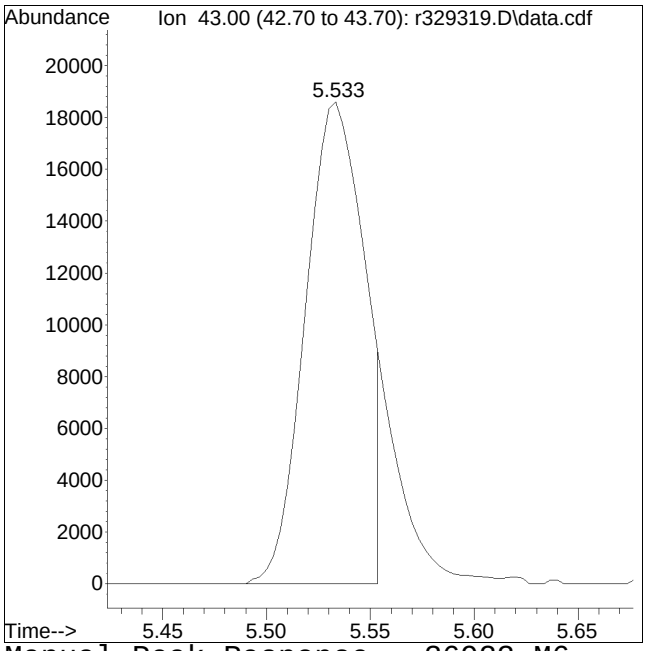
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329319.D
Date Inj'd : 2/25/2020 0:7: 0
Sample : L2409224-10,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/25/2024 8:32 pm

Compound #19: acetone



Original Peak Response = 43053



Manual Peak Response = 36923 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329320.D
Acq On : 25 Feb 2024 8:30 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-02,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:07:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	244214	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		87.15%	
43) 1,4-difluorobenzene	11.180	114	653909	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		85.11%	
67) chlorobenzene-D5	15.917	54	126091	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		88.10%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.888	85	15286	0.538	ppbV	98
6) chloromethane	4.044	50	7484	0.534	ppbV	96
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.410		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.004	31	520988	53.543	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.520	43	95199	3.657	ppbV #	98
21) trichlorofluoromethane	5.700	101	5867	0.198	ppbV	98
22) isopropyl alcohol	5.810	45	145426	4.580	ppbV	100
27) tertiary butyl alcohol	6.496	59	2017	0.053	ppbV #	80
28) methylene chloride	6.538	49	4131	0.217	ppbV	93
29) 3-chloropropene	6.532		0	N.D.		
30) carbon disulfide	6.844	76	2252	0.043	ppbV #	1
31) Freon 113	6.844	101	1779	0.054	ppbV #	89
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	7.808		0	N.D.		
34) MTBE	0.000		0	N.D.		
36) 2-butanone	8.283	43	9228	0.220	ppbV #	93
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.100	83	1271	0.043	ppbV #	95
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.942	62	3982	0.181	ppbV	99
44) hexane	9.017	57	1842	0.063	ppbV #	22
50) benzene	10.753	78	380302	7.073	ppbV #	92
53) cyclohexane	11.073		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329320.D
Acq On : 25 Feb 2024 8:30 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-02,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:07:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

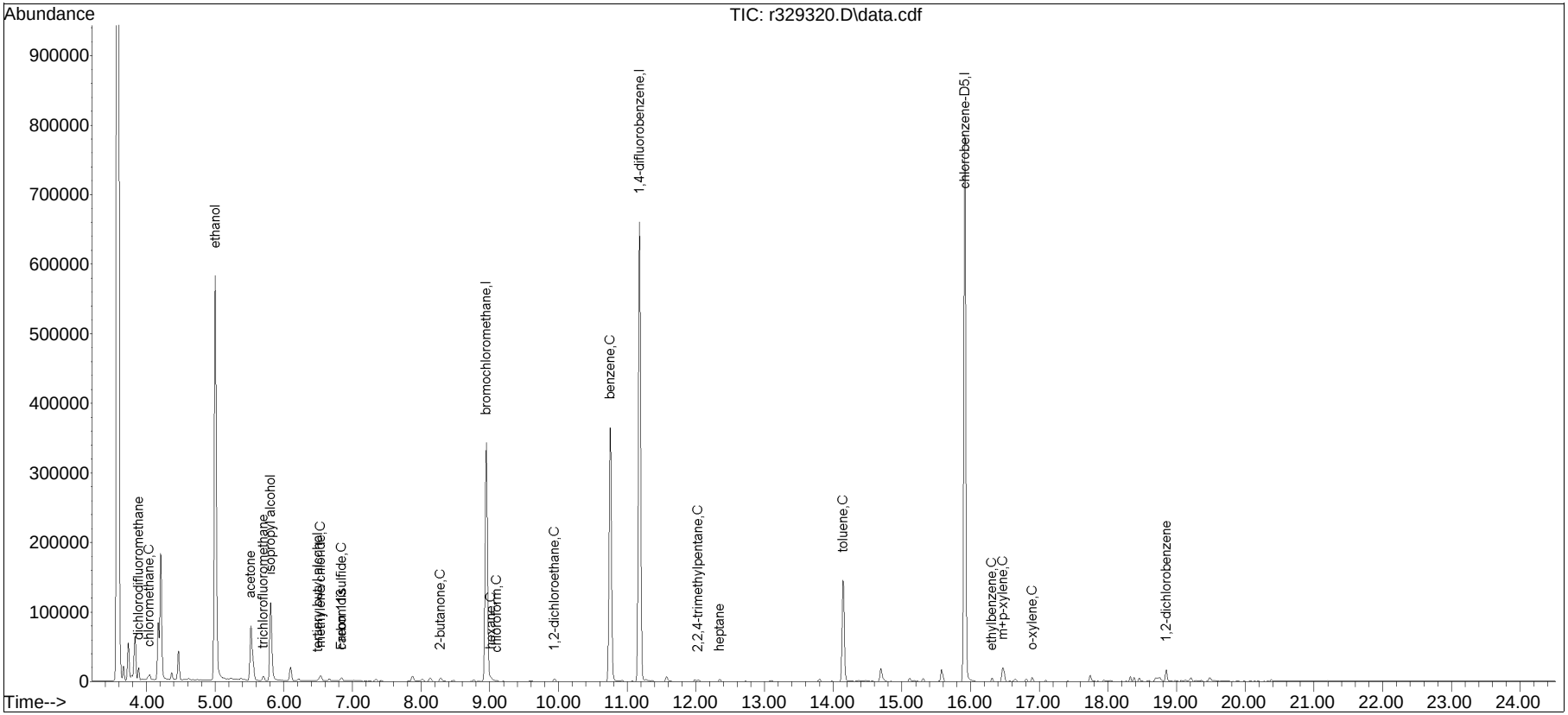
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	3096	0.031	ppbV #	83
62) heptane	12.347	43	2057	0.059	ppbV	99
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.075		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.142	91	134124	1.542	ppbV	99
72) 2-hexanone	0.000		0	N.D.	d	
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.308	91	5197	0.048	ppbV	100
83) m+p-xylene	16.467	91	20415	0.237	ppbV	90
84) bromoform	0.000		0	N.D.		
85) styrene	16.808		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	4850	0.057	ppbV	93
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101) Benzyl Chloride	18.375		0	N.D.		
102) 1,3-dichlorobenzene	18.575		0	N.D.		
103) 1,4-dichlorobenzene	18.575		0	N.D.		
107) 1,2-dichlorobenzene	18.850	146	2646	0.042	ppbV #	89
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

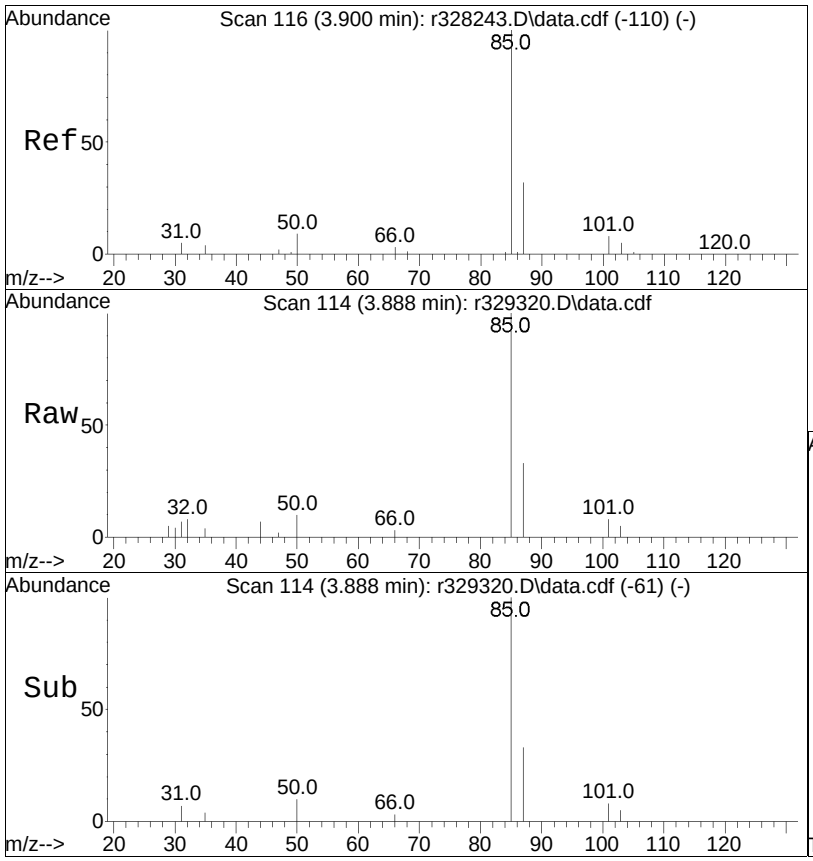
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329320.D
Acq On : 25 Feb 2024 8:30 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-02,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:07:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

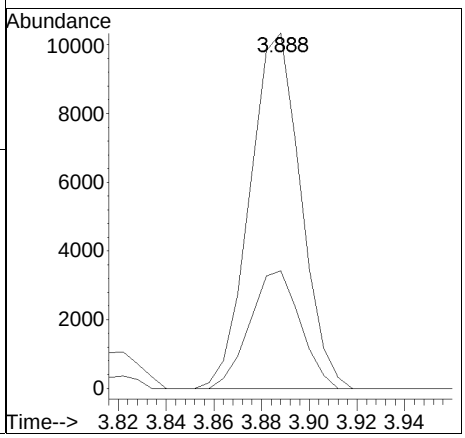


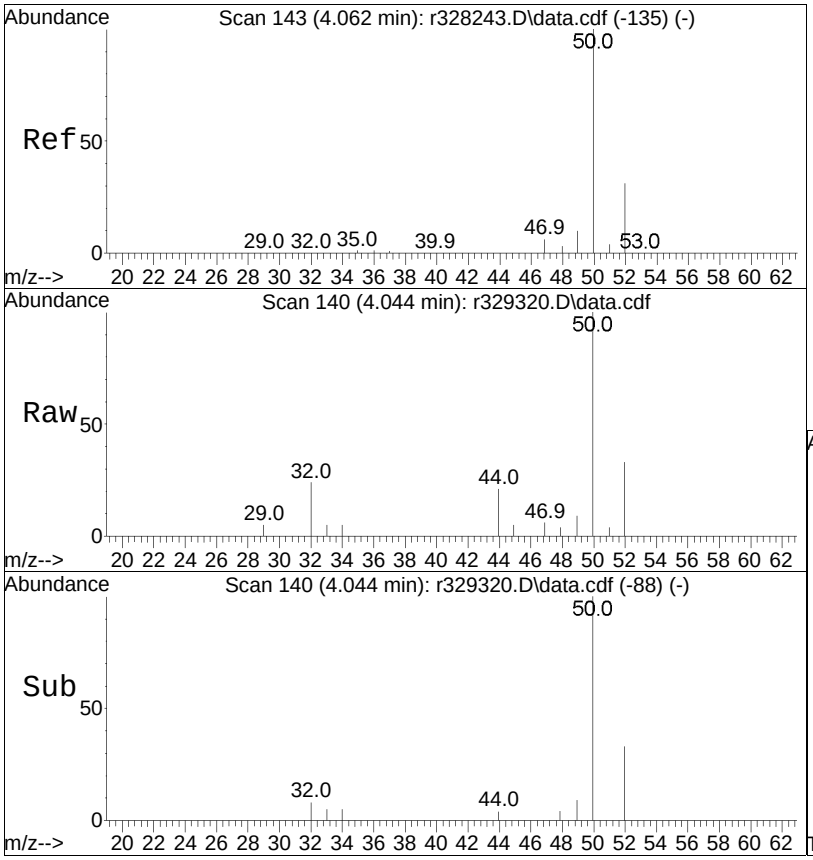


#5
dichlorodifluoromethane
Concen: 0.54 ppbV
RT: 3.888 min Scan# 114
Delta R.T. -0.012 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 85 Resp: 15286

Ion	Ratio	Lower	Upper
85	100		
87	33.1	25.7	38.5

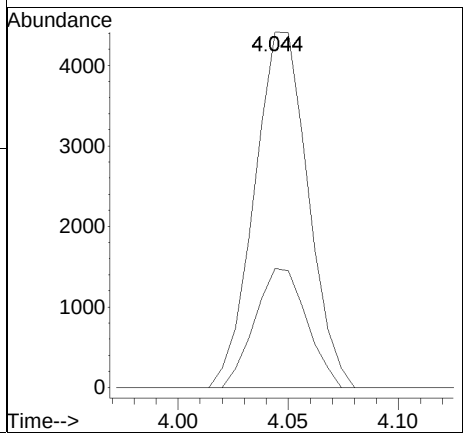


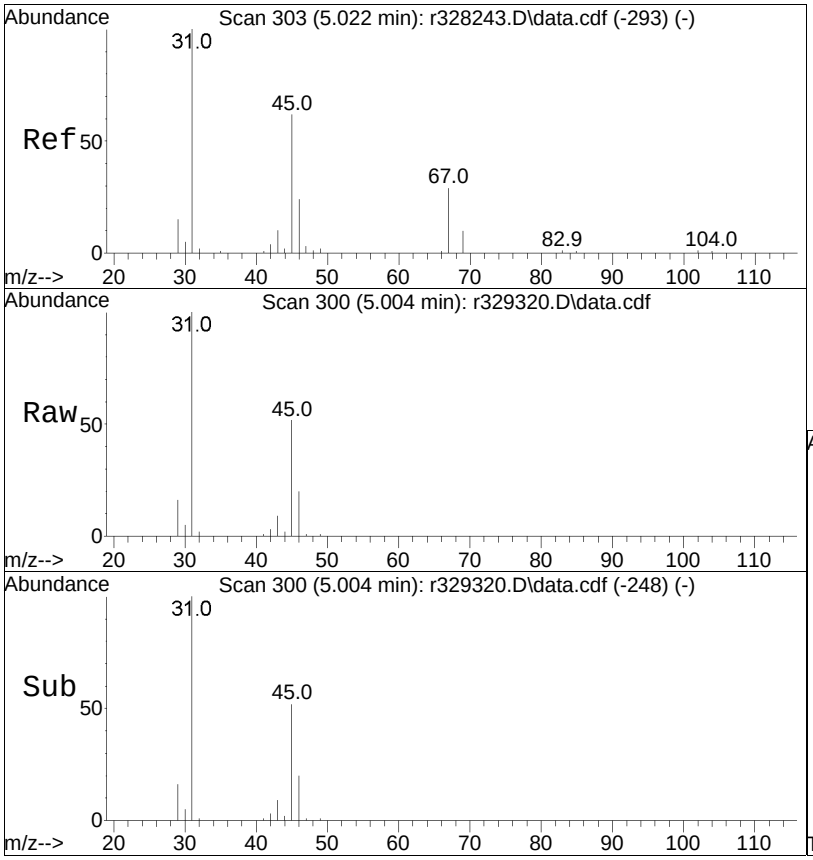


#6
chloromethane
Concen: 0.53 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 50 Resp: 7484

Ion	Ratio	Lower	Upper
50	100		
52	33.5	25.0	37.6

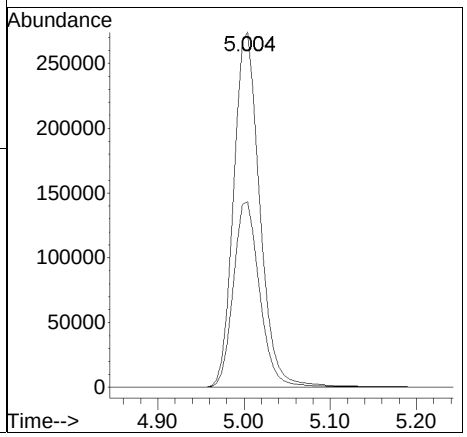


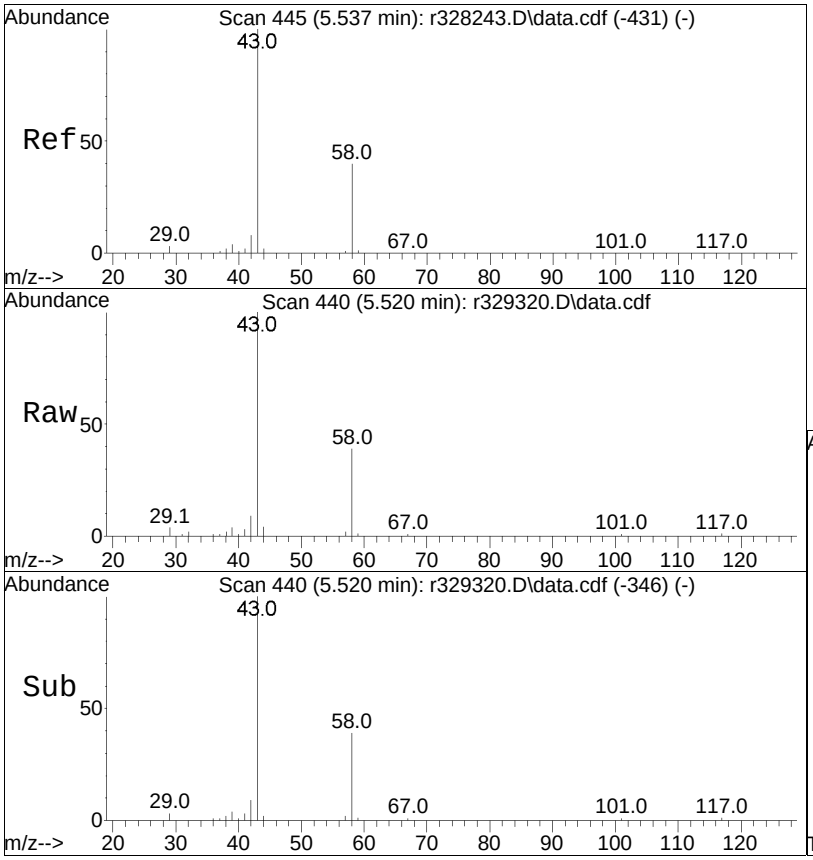


#15
ethanol
Concen: 53.54 ppbV
RT: 5.004 min Scan# 300
Delta R.T. -0.018 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 31 Resp: 520988

Ion	Ratio	Lower	Upper
31	100		
45	52.3	49.8	74.6

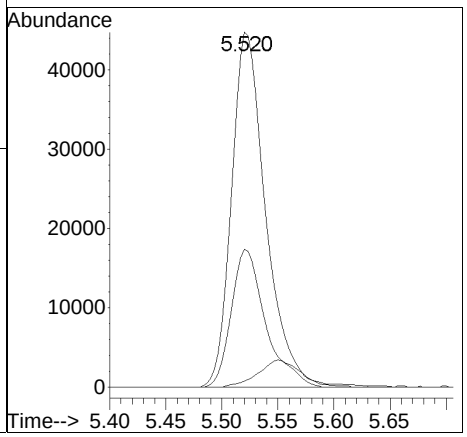


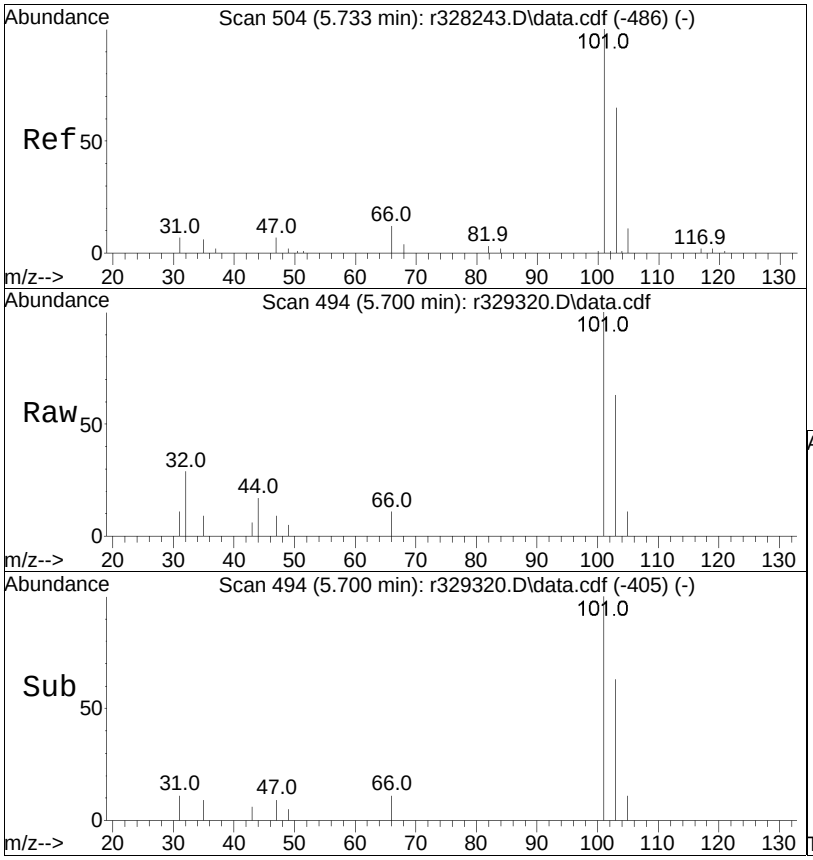


#19
acetone
Concen: 3.66 ppbV
RT: 5.520 min Scan# 440
Delta R.T. -0.017 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 43 Resp: 95199

Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.9	47.9
57	1.8	0.9	1.3#

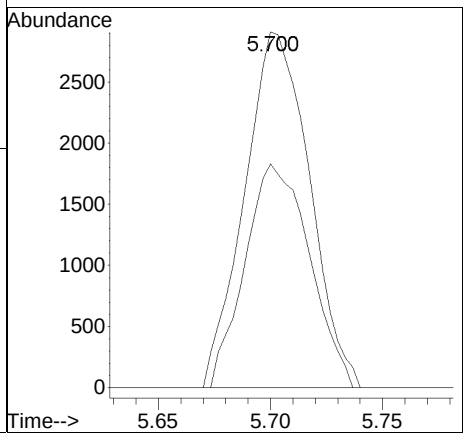


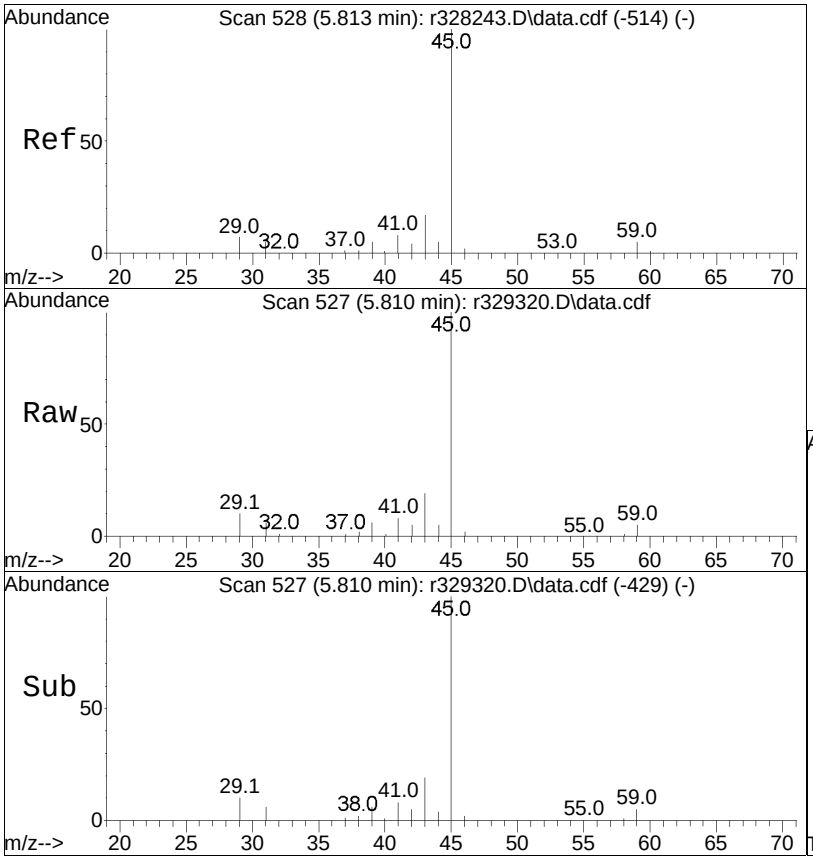


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.700 min Scan# 494
Delta R.T. -0.033 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:101 Resp: 5867

Ion	Ratio	Lower	Upper
101	100		
103	62.9	51.7	77.5

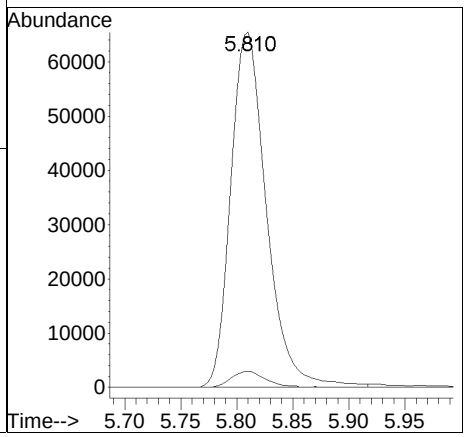


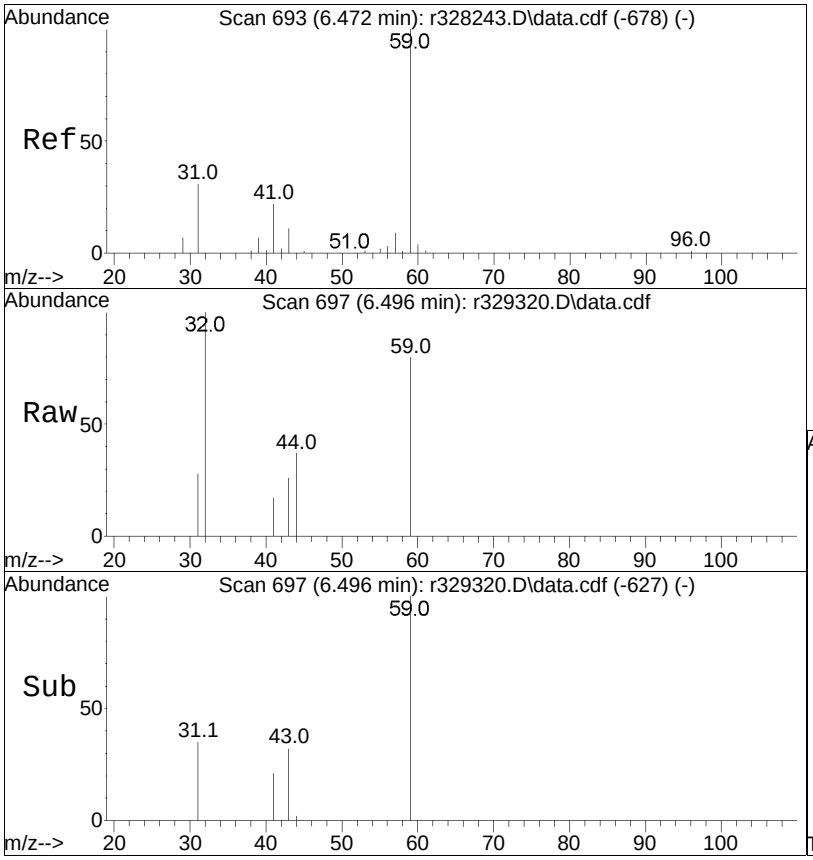


#22
isopropyl alcohol
Concen: 4.58 ppbV
RT: 5.810 min Scan# 527
Delta R.T. -0.003 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 45 Resp: 145426

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.7	5.5

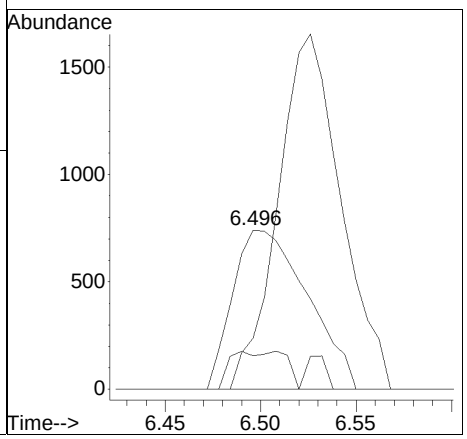


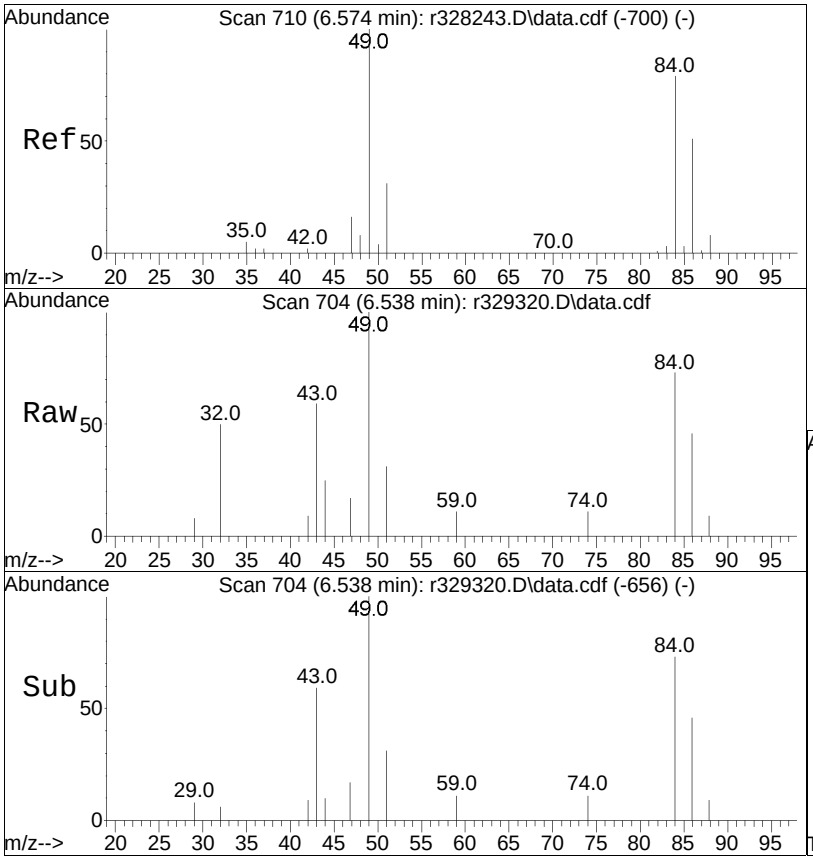


#27
tertiary butyl alcohol
Concen: 0.05 ppbV
RT: 6.496 min Scan# 697
Delta R.T. 0.024 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 59 Resp: 2017

Ion	Ratio	Lower	Upper
59	100		
41	21.1	17.5	26.3
43	32.3	8.4	12.6#

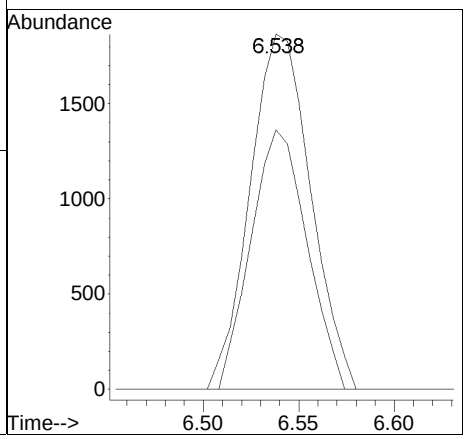


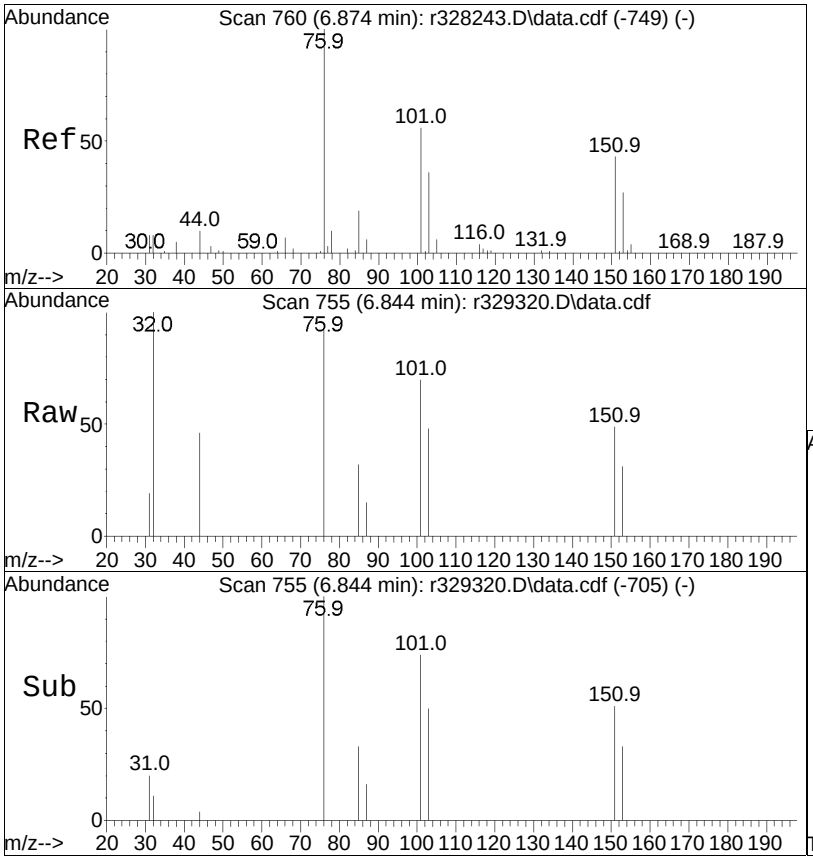


#28
methylene chloride
Concen: 0.22 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 49 Resp: 4131

Ion	Ratio	Lower	Upper
49	100		
84	73.0	63.3	94.9

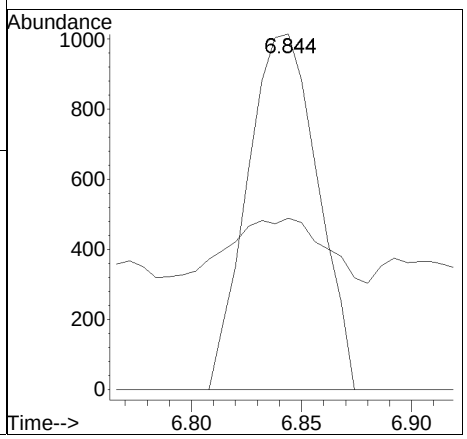


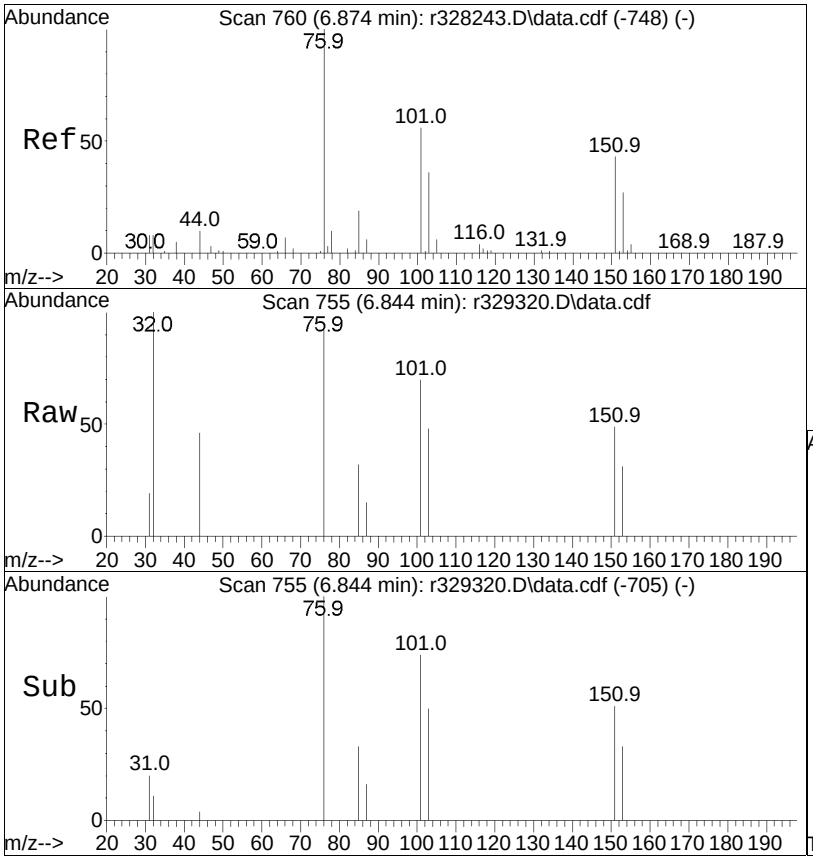


#30
carbon disulfide
Concen: 0.04 ppbV
RT: 6.844 min Scan# 755
Delta R.T. -0.030 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 76 Resp: 2252

Ion	Ratio	Lower	Upper
76	100		
44	48.2	7.7	11.5#

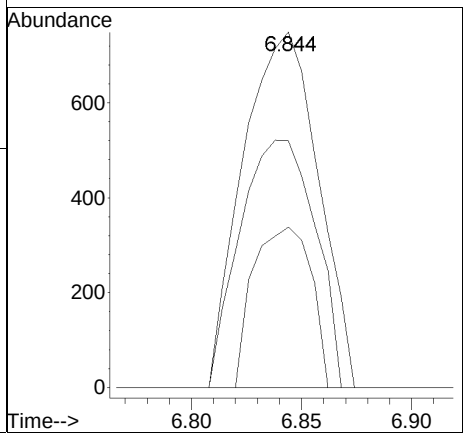


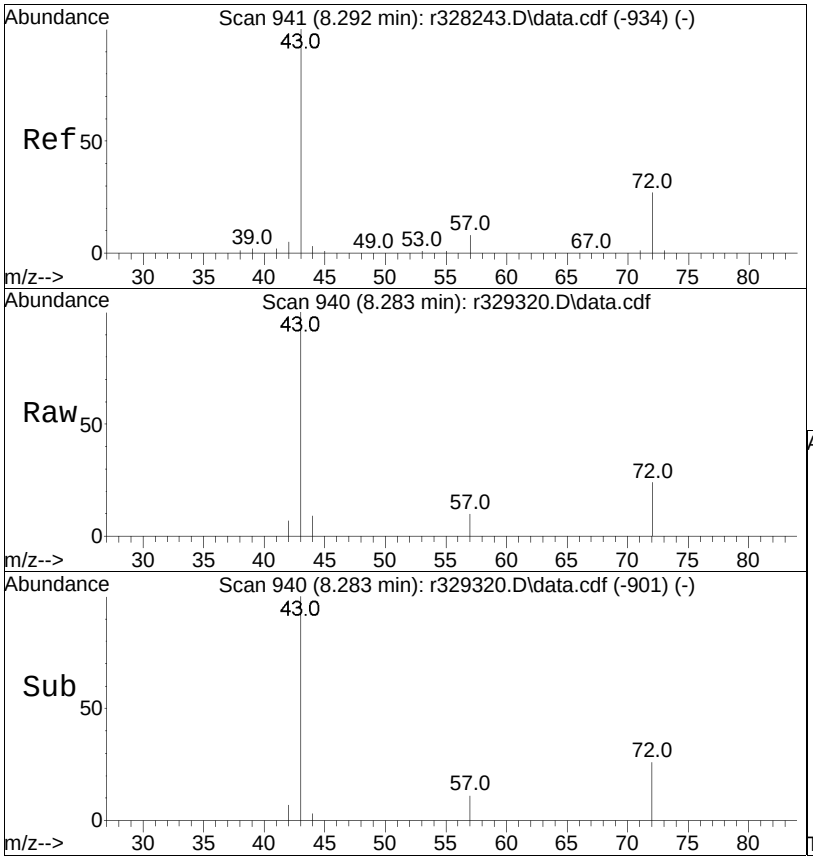


#31
Freon 113
Concen: 0.05 ppbV
RT: 6.844 min Scan# 755
Delta R.T. -0.030 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:101 Resp: 1779

Ion	Ratio	Lower	Upper
101	100		
85	45.1	27.9	41.9#
151	69.4	61.0	91.4

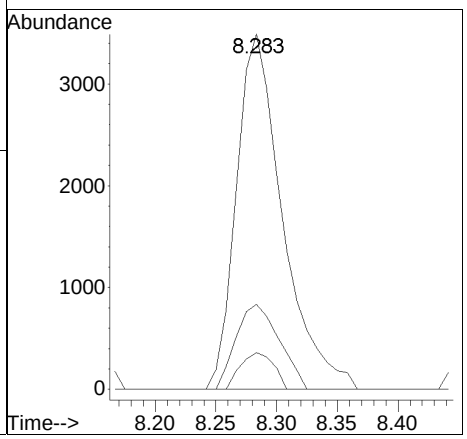


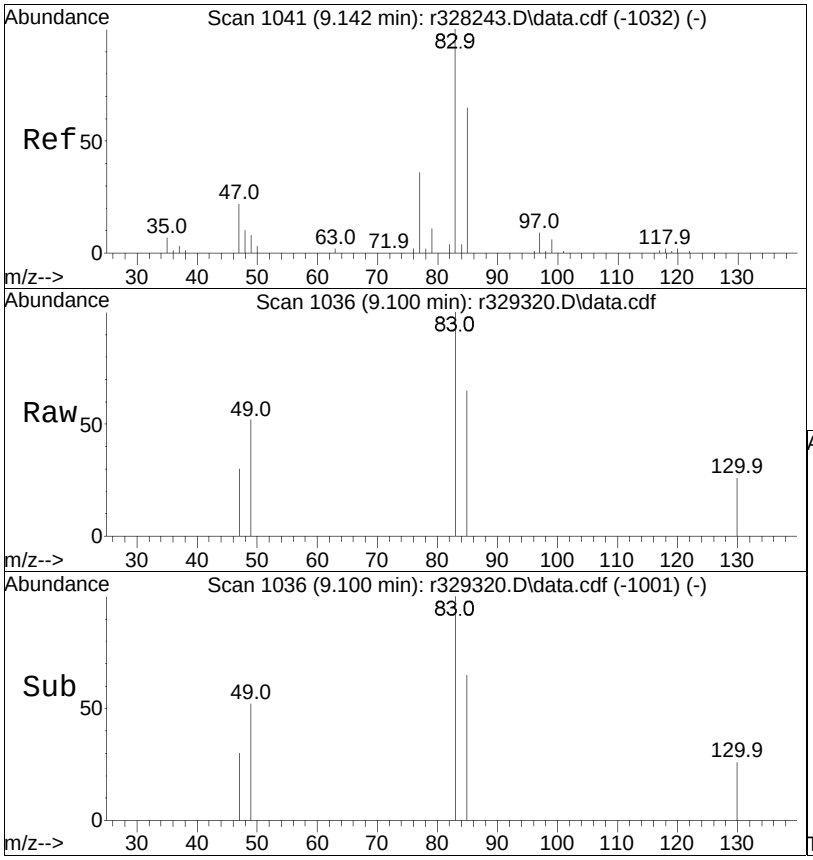


#36
2-butanone
Concen: 0.22 ppbV
RT: 8.283 min Scan# 940
Delta R.T. -0.008 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 43 Resp: 9228

Ion	Ratio	Lower	Upper
43	100		
72	23.9	21.9	32.9
57	10.4	6.6	9.8#

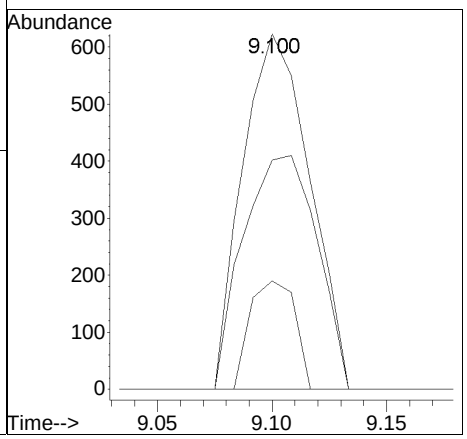


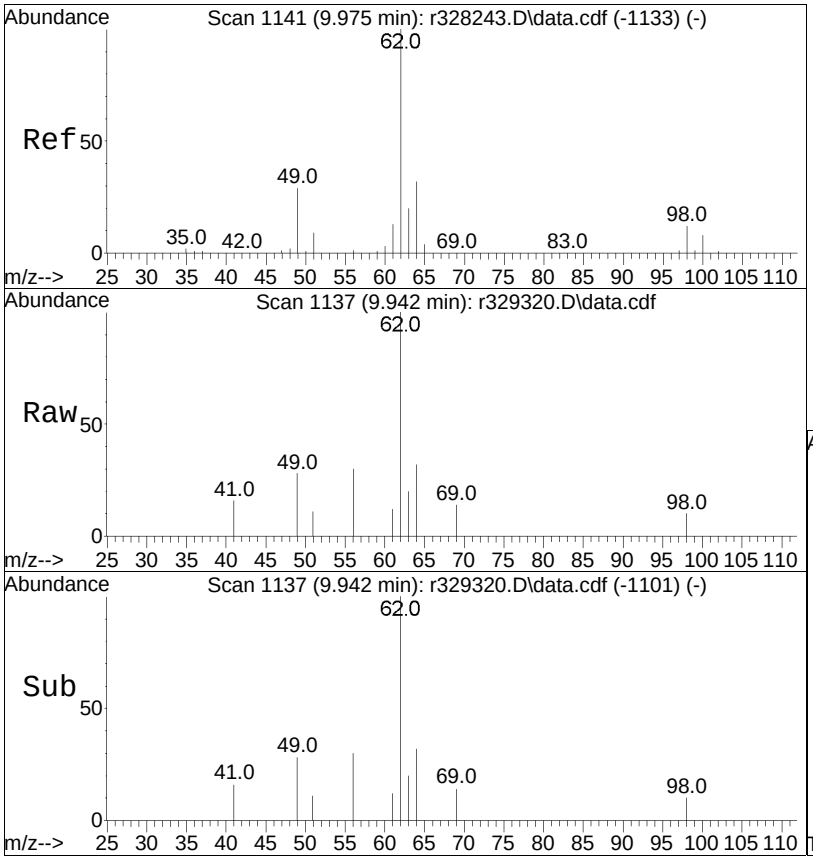


#39
chloroform
Concen: 0.04 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 83 Resp: 1271

Ion	Ratio	Lower	Upper
83	100		
85	64.5	52.2	78.4
47	30.5	17.4	26.2#

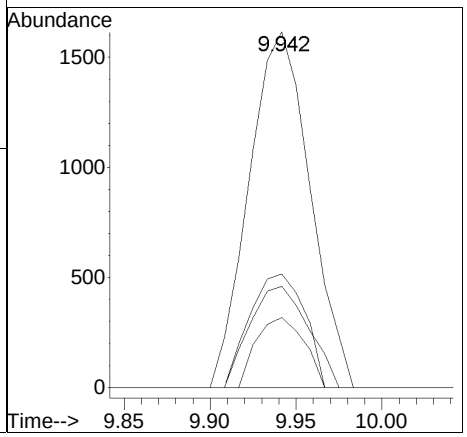


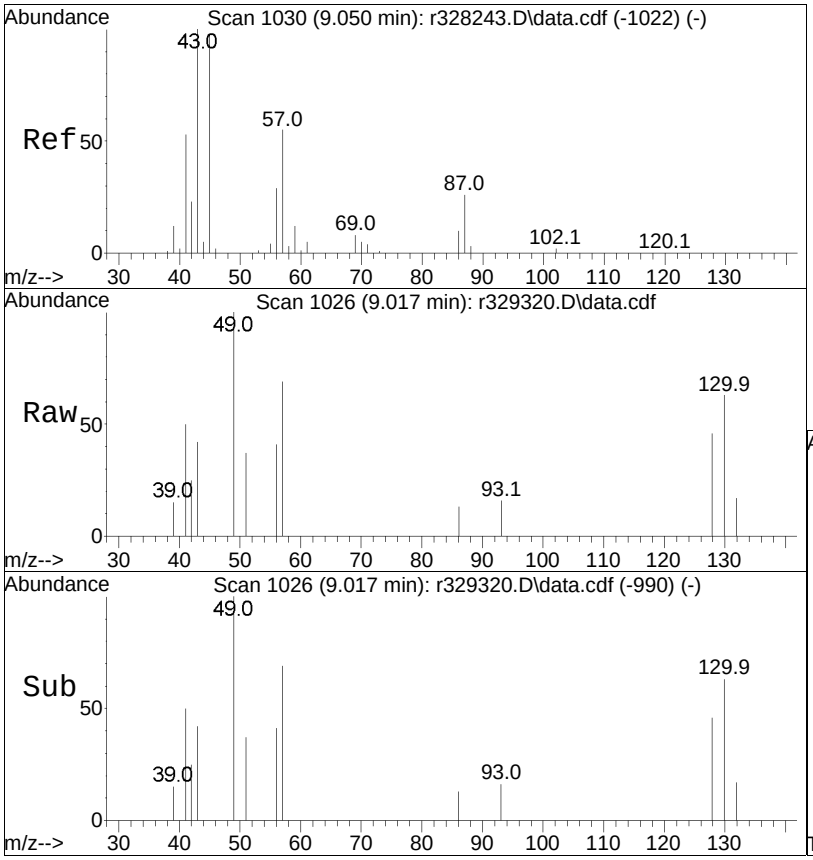


#42
1,2-dichloroethane
Concen: 0.18 ppbV
RT: 9.942 min Scan# 1137
Delta R.T. -0.033 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 62 Resp: 3982

Ion	Ratio	Lower	Upper
62	100		
64	32.0	25.6	38.4
49	28.5	23.2	34.8
63	19.7	16.3	24.5

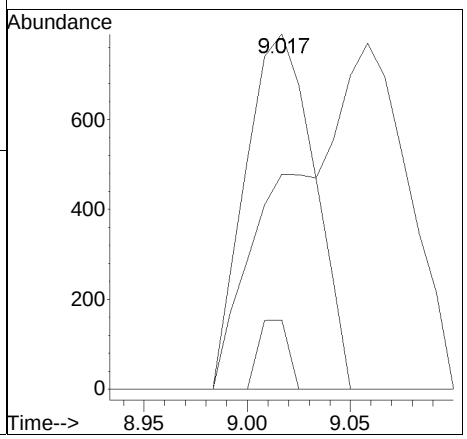


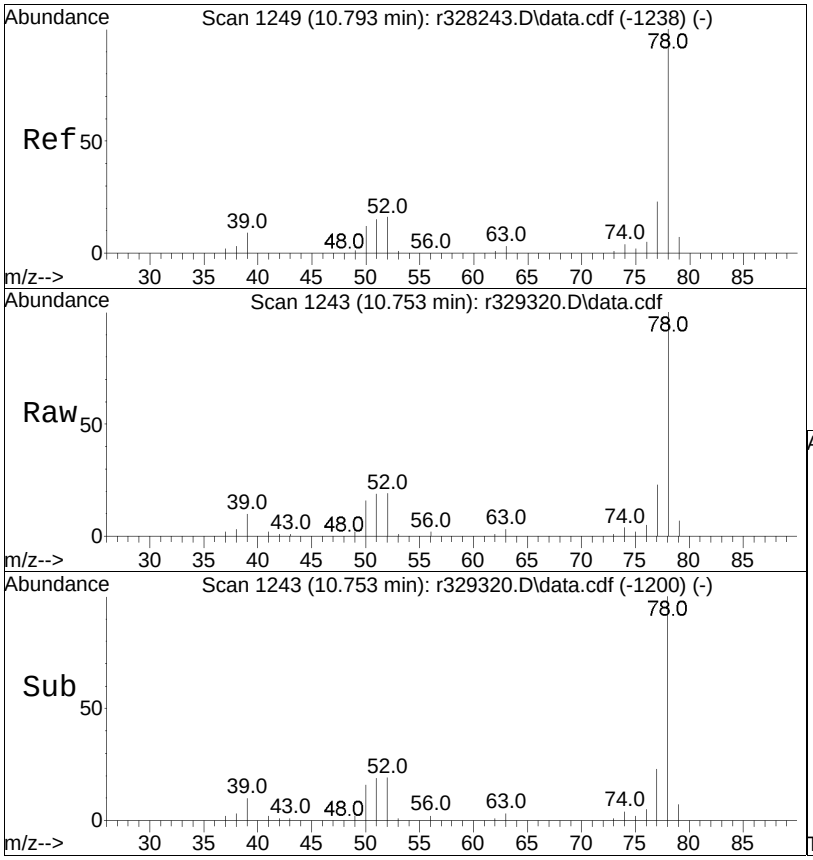


#44
hexane
Concen: 0.06 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 57 Resp: 1842

Ion	Ratio	Lower	Upper
57	100		
43	60.5	145.3	217.9#
86	19.5	14.3	21.5

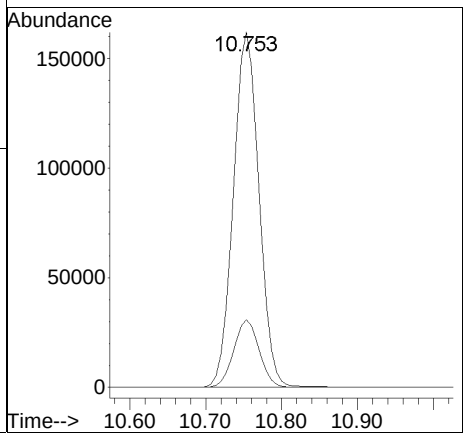


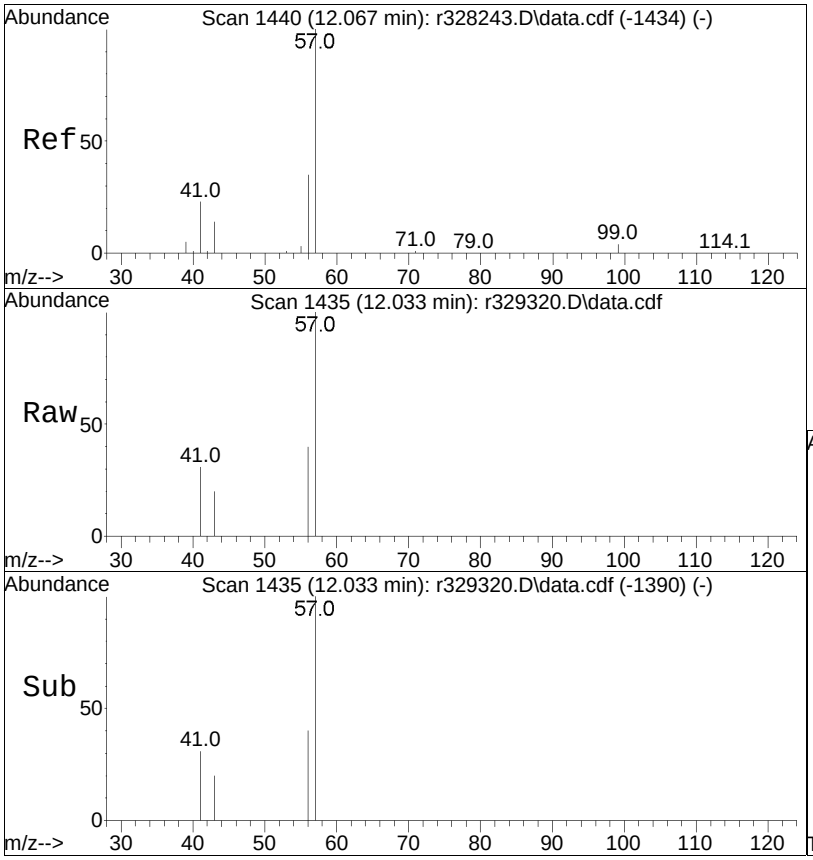


#50
benzene
Concen: 7.07 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 78 Resp: 380302

Ion	Ratio	Lower	Upper
78	100		
52	19.1	12.4	18.6#

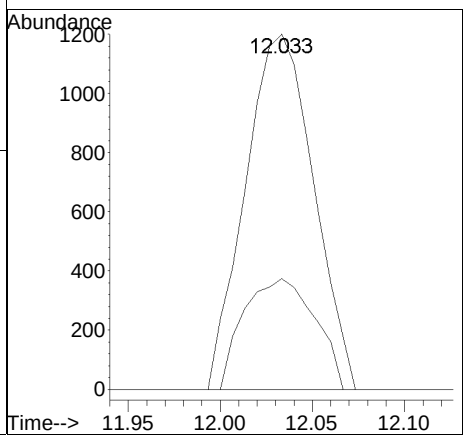


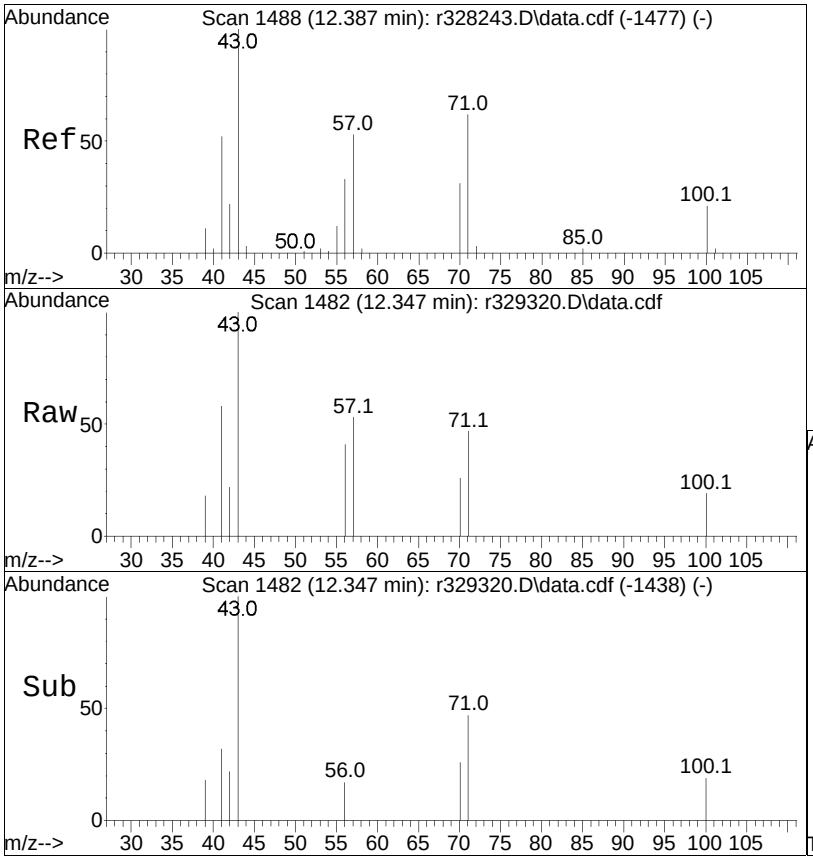


#60
2,2,4-trimethylpentane
Concen: 0.03 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 57 Resp: 3096

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	31.1	18.2	27.4#

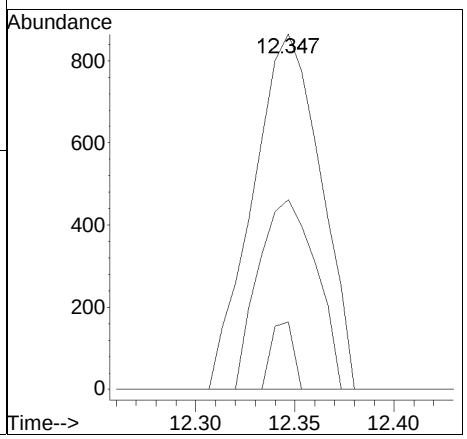


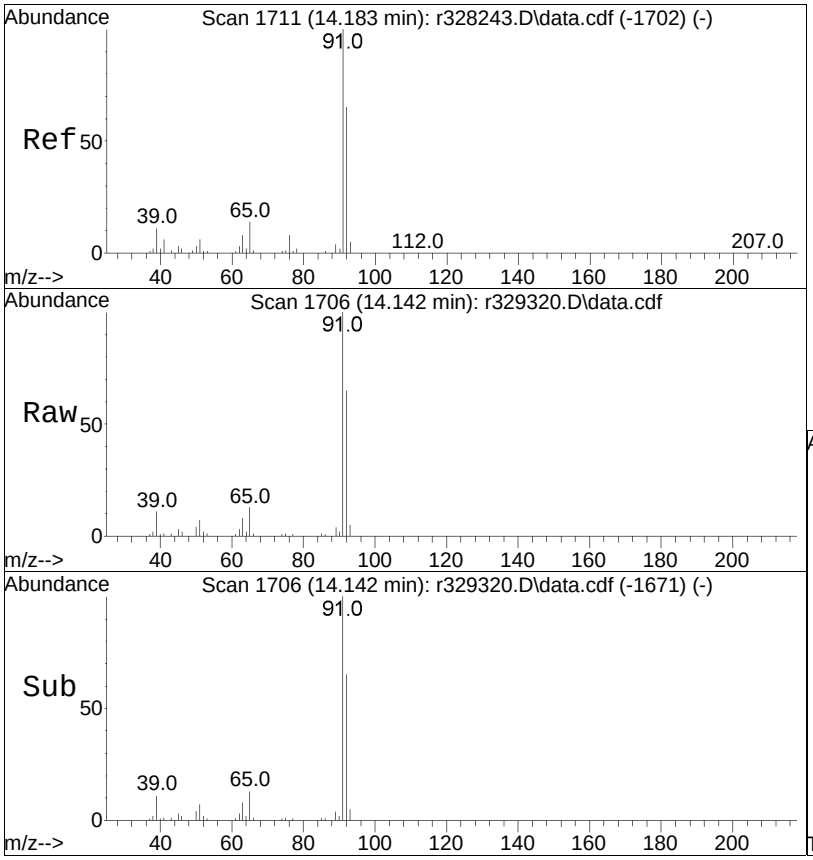


#62
heptane
Concen: 0.06 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 43 Resp: 2057

Ion	Ratio	Lower	Upper
43	100		
57	53.4	42.6	64.0
100	19.0	17.0	25.4

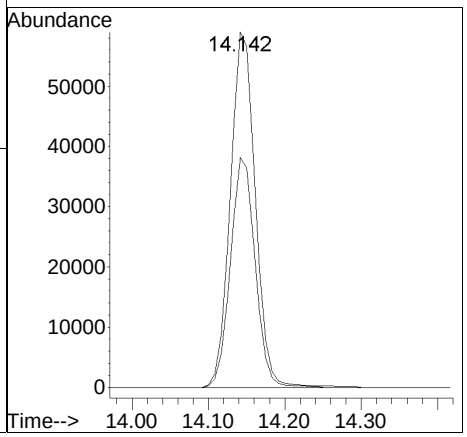


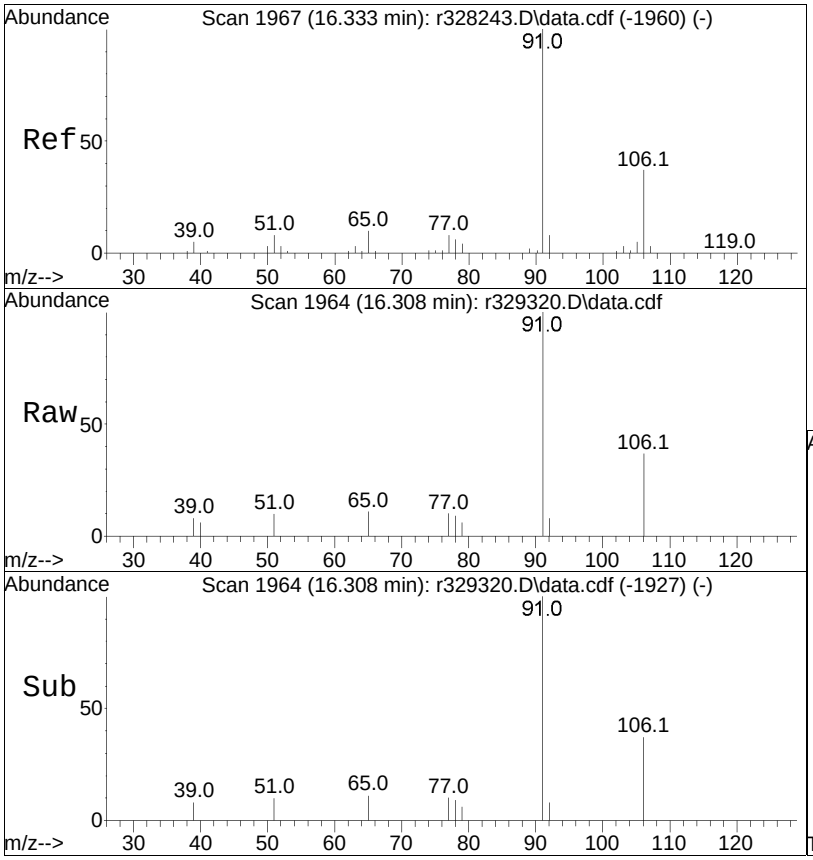


#68
toluene
Concen: 1.54 ppbV
RT: 14.142 min Scan# 1706
Delta R.T. -0.042 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 91 Resp: 134124

Ion	Ratio	Lower	Upper
91	100		
92	64.6	52.1	78.1

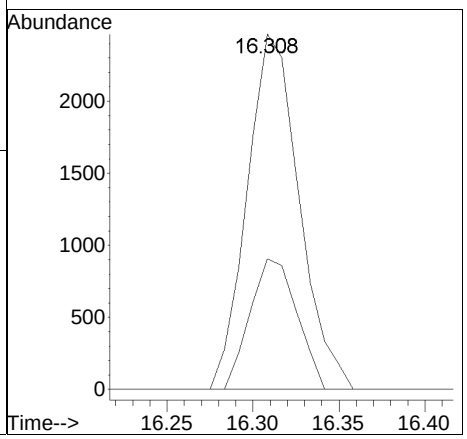


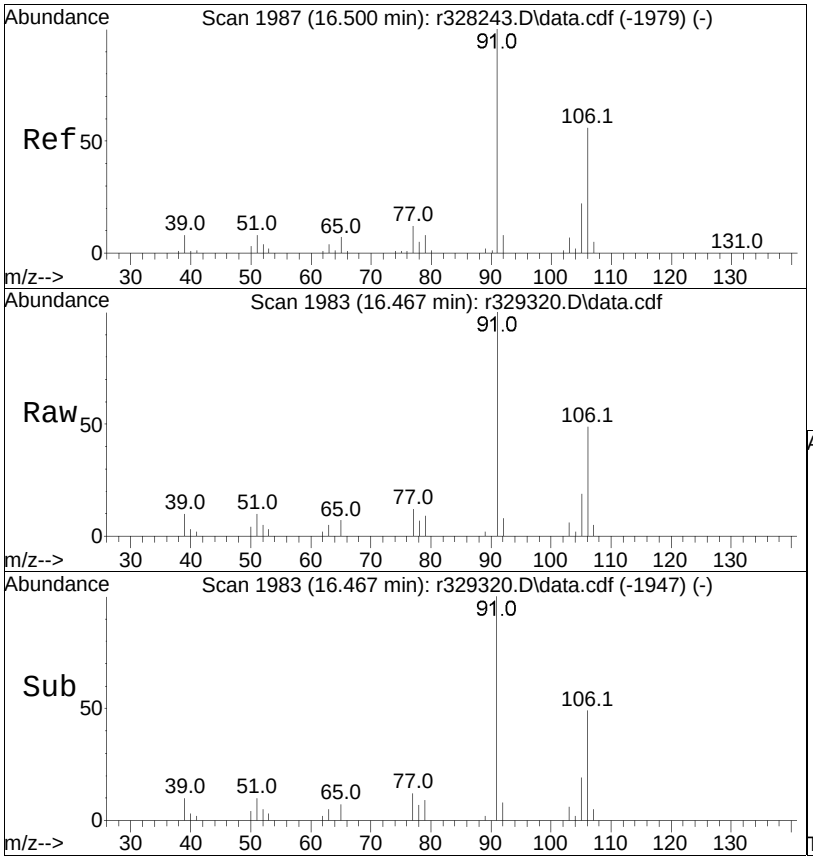


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 91 Resp: 5197

Ion	Ratio	Lower	Upper
91	100		
106	36.7	29.2	43.8

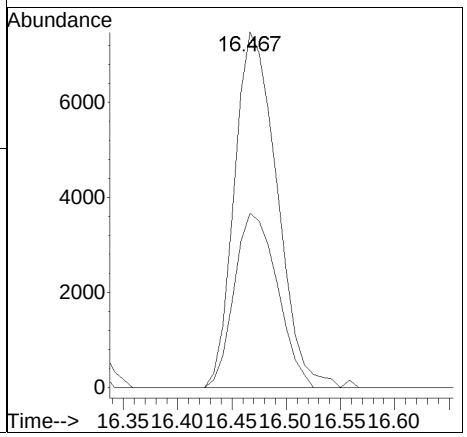


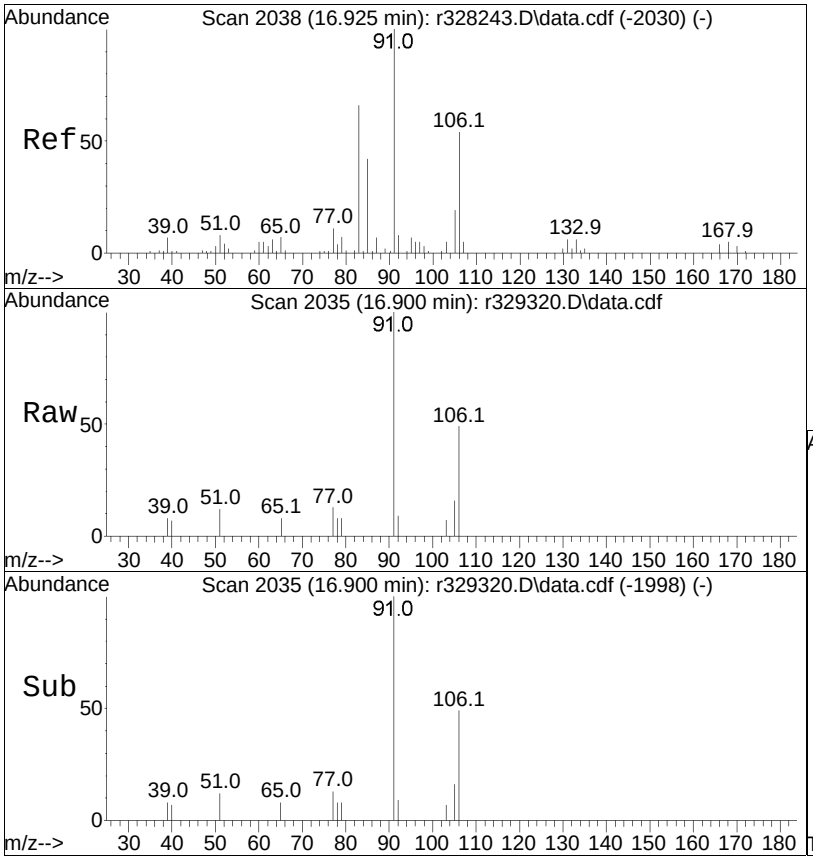


#83
m+p-xylene
Concen: 0.24 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 91 Resp: 20415

Ion	Ratio	Lower	Upper
91	100		
106	49.0	44.8	67.2

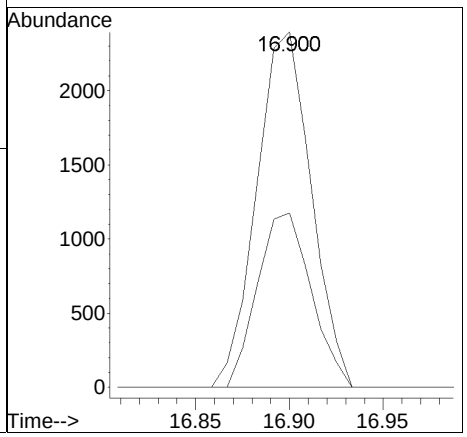


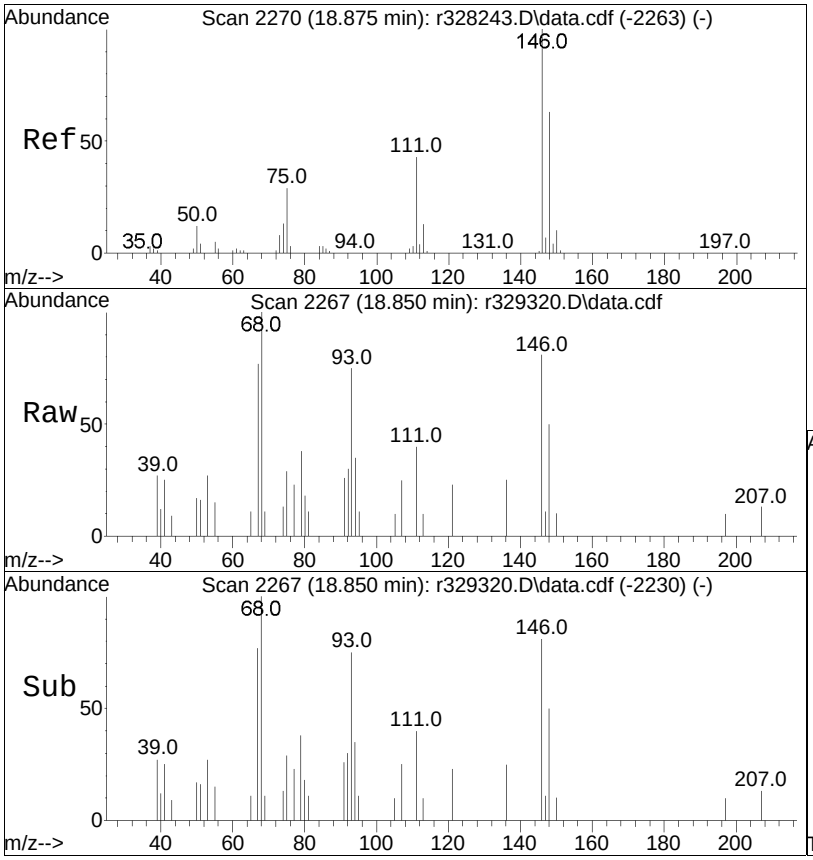


#87
o-xylene
Concen: 0.06 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 91 Resp: 4850

Ion	Ratio	Lower	Upper
91	100		
106	49.1	43.0	64.6

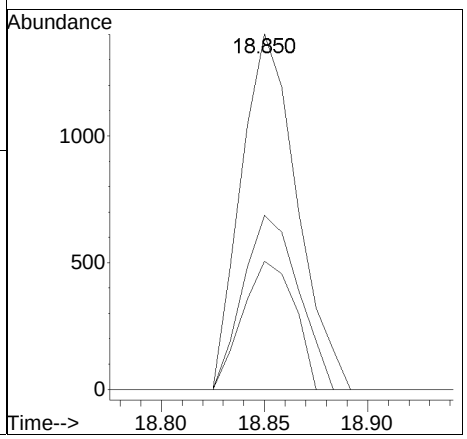




#107
1,2-dichlorobenzene
Concen: 0.04 ppbV
RT: 18.850 min Scan# 2267
Delta R.T. -0.025 min
Lab File: r329320.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:146 Resp: 2646

Ion	Ratio	Lower	Upper
146	100		
111	49.0	34.3	51.5
75	36.1	23.3	34.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TFS3_231230.M
Data File	: r329320.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:8: 0	Instrument	:
Sample	: L2409224-02,3,250,250	Quant Date	: 2/26/2024 6:07 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329321.D
Acq On : 25 Feb 2024 9:10 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-03,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:08:54 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	247797	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		88.43%	
43) 1,4-difluorobenzene	11.180	114	645302	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		83.99%	
67) chlorobenzene-D5	15.917	54	124820	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		87.21%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.888	85	15625	0.542	ppbV	100
6) chloromethane	4.050	50	8201	0.577	ppbV	98
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.410	54	552	0.041	ppbV	89
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.016	31	90052	9.121	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.530	43	40990M6	1.552	ppbV	
21) trichlorofluoromethane	5.707	101	5894	0.196	ppbV	98
22) isopropyl alcohol	5.823	45	21096	0.655	ppbV	98
27) tertiary butyl alcohol	6.520		0	N.D.		
28) methylene chloride	6.544	49	14558	0.755	ppbV	91
29) 3-chloropropene	6.544		0	N.D.		
30) carbon disulfide	6.844		0	N.D.		
31) Freon 113	6.844	101	1850	0.055	ppbV #	89
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	8.300	43	3487	0.082	ppbV #	94
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.100		0	N.D.		
40) Tetrahydrofuran	9.608		0	N.D.		
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	9.017	57	3707	0.128	ppbV #	22
50) benzene	10.753	78	12248	0.231	ppbV #	91
53) cyclohexane	11.073	56	1068	0.035	ppbV	93
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329321.D
Acq On : 25 Feb 2024 9:10 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-03,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:08:54 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

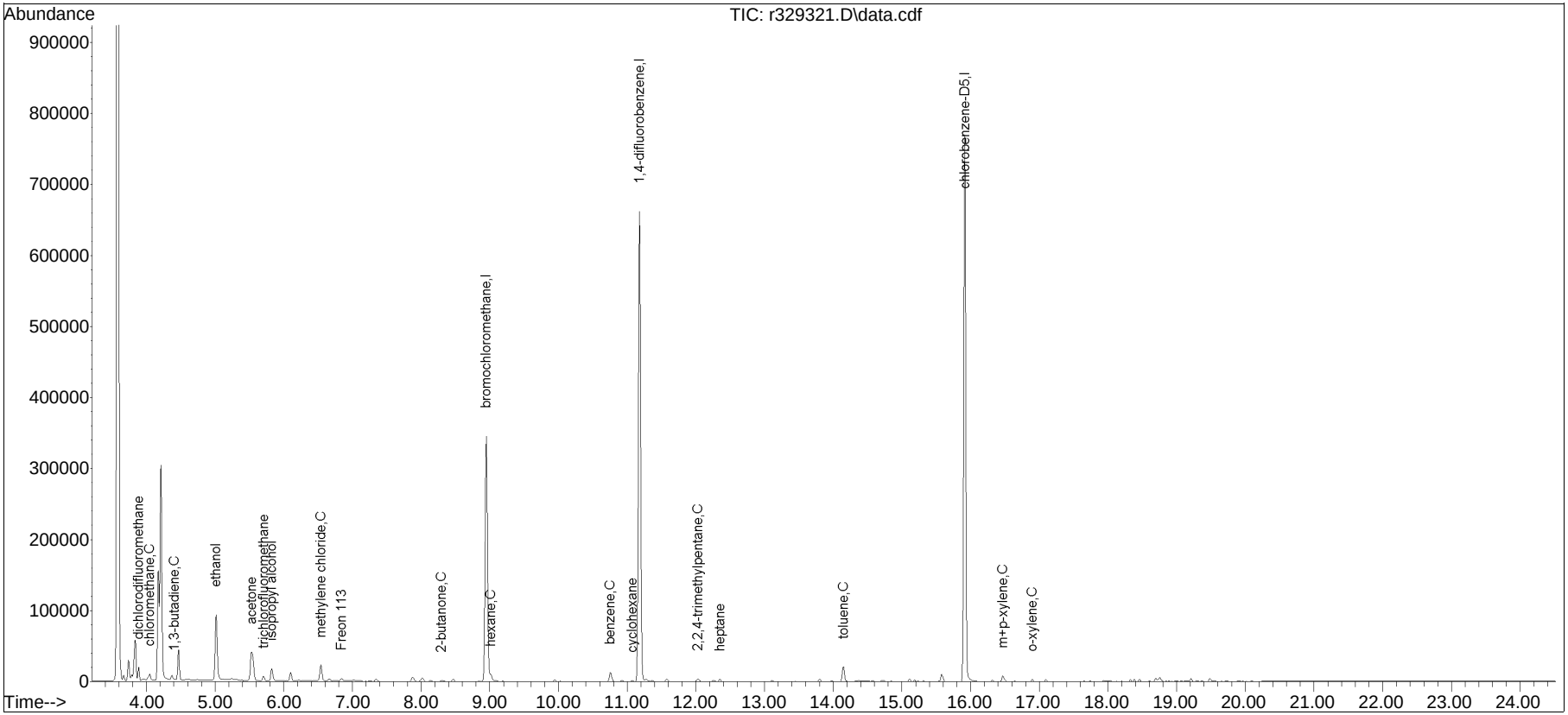
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	4811	0.050	ppbV #	88
62) heptane	12.353	43	1729	0.050	ppbV	95
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.092		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	19735	0.229	ppbV	97
72) 2-hexanone	14.567		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.317		0	N.D.		
83) m+p-xylene	16.467	91	7942	0.093	ppbV	91
84) bromoform	0.000		0	N.D.		
85) styrene	16.817		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	2717	0.032	ppbV	95
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	18.383		0	N.D.		
101) Benzyl Chloride	18.383		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

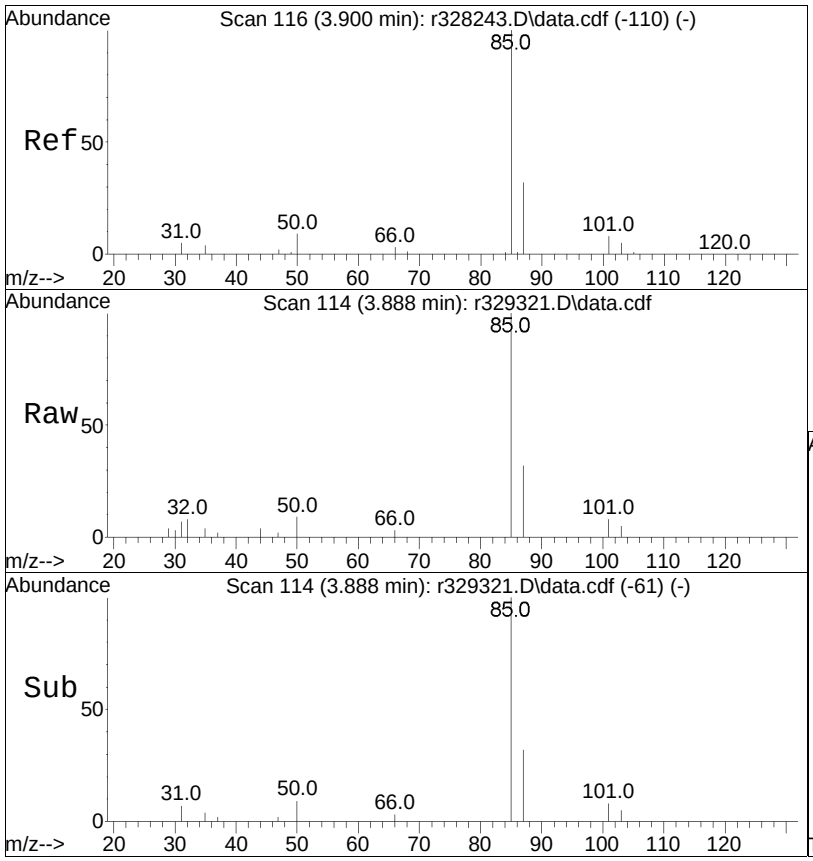
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329321.D
Acq On : 25 Feb 2024 9:10 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-03,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:08:54 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

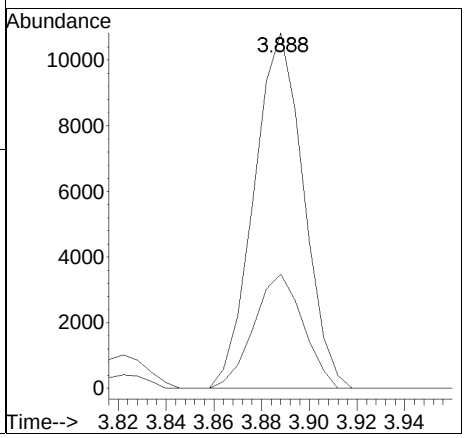


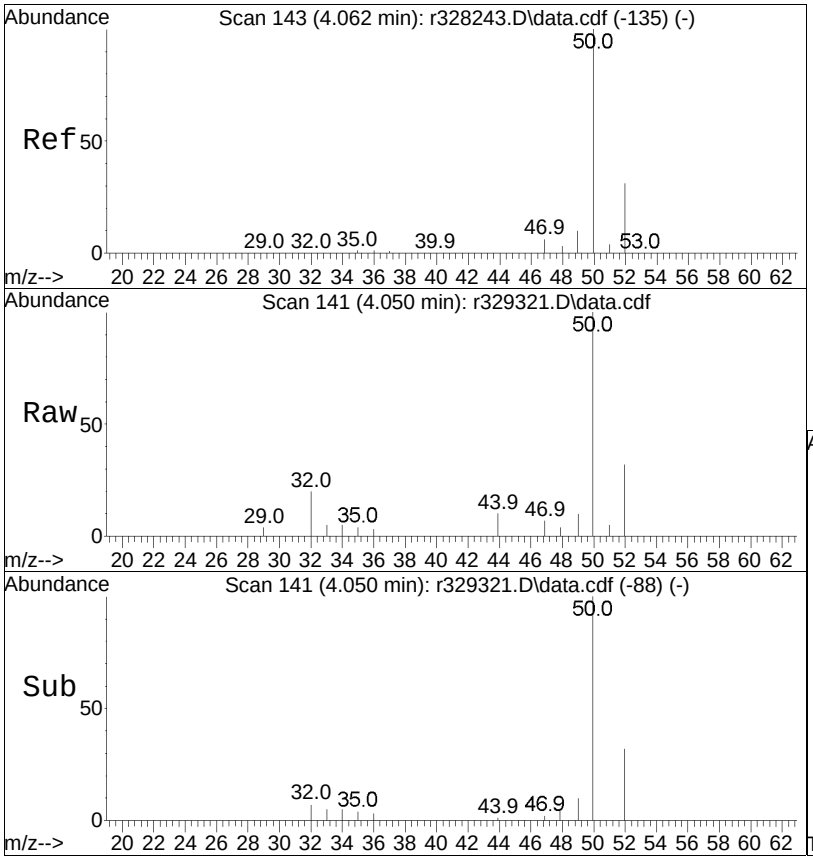


#5
dichlorodifluoromethane
Concen: 0.54 ppbV
RT: 3.888 min Scan# 114
Delta R.T. -0.012 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 85 Resp: 15625

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.7	38.5

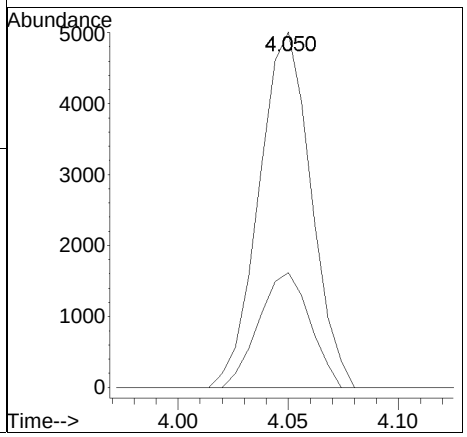


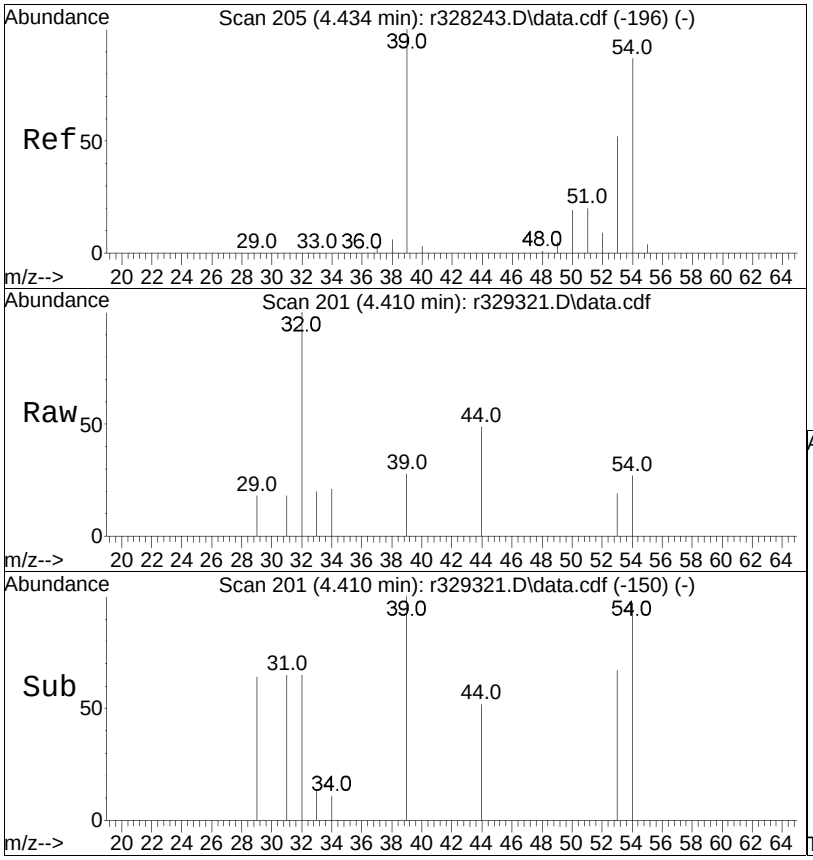


#6
chloromethane
Concen: 0.58 ppbV
RT: 4.050 min Scan# 141
Delta R.T. -0.012 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 50 Resp: 8201

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.0	37.6

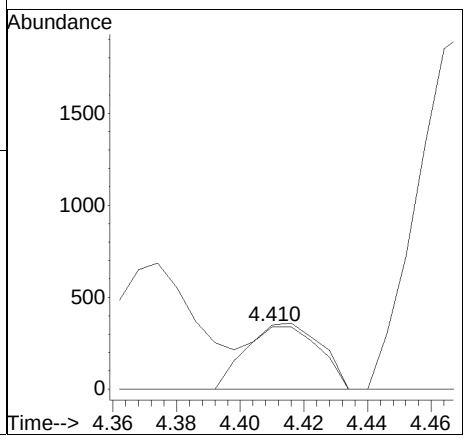


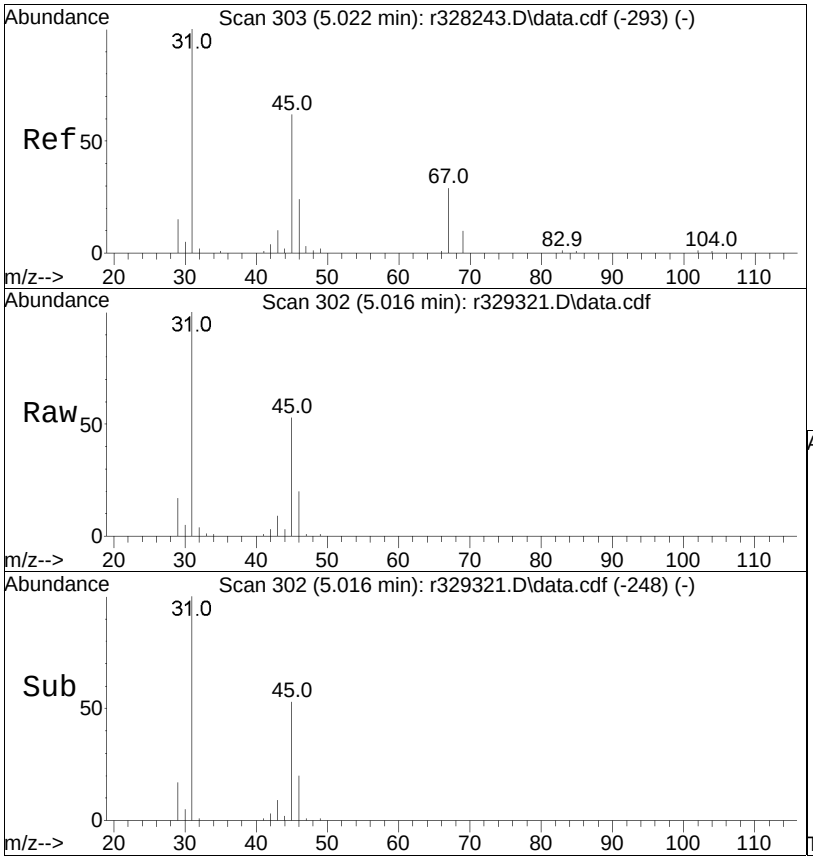


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 54 Resp: 552

Ion	Ratio	Lower	Upper
54	100		
39	102.9	92.3	138.5

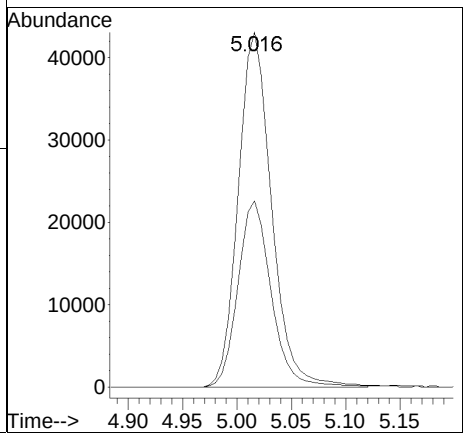


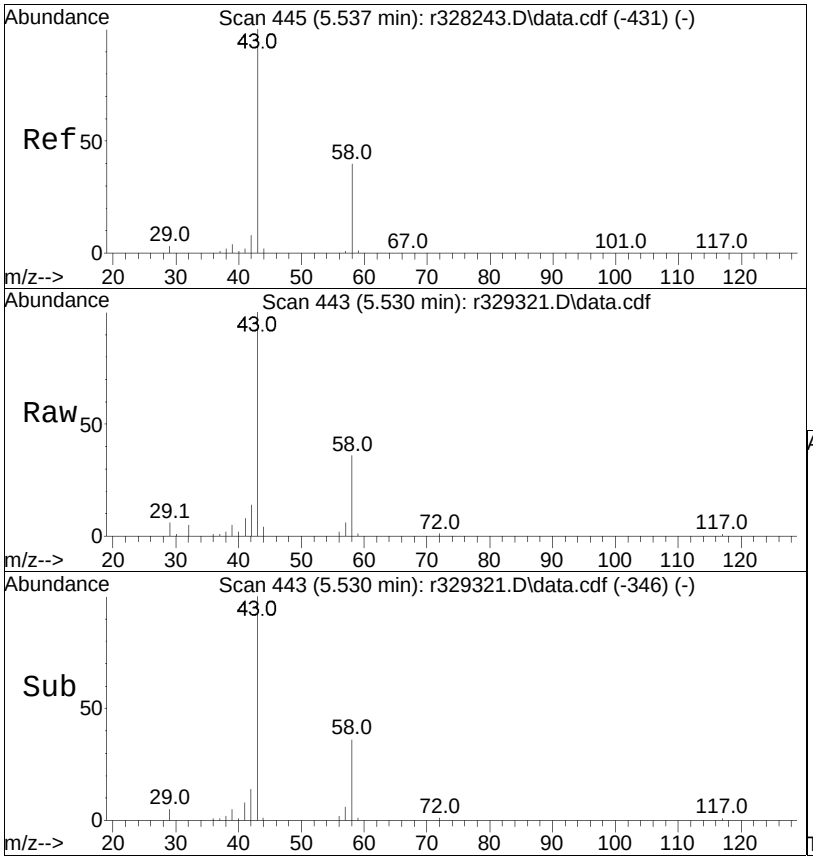


#15
ethanol
Concen: 9.12 ppbV
RT: 5.016 min Scan# 302
Delta R.T. -0.006 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 31 Resp: 90052

Ion	Ratio	Lower	Upper
31	100		
45	52.5	49.8	74.6

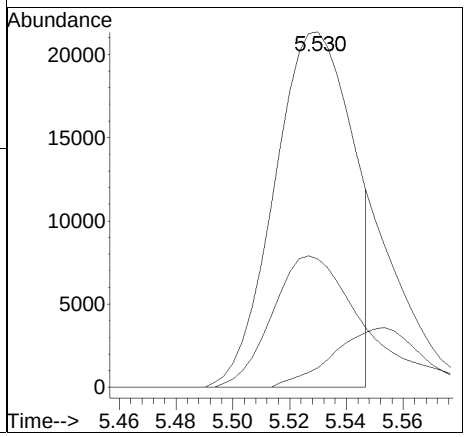


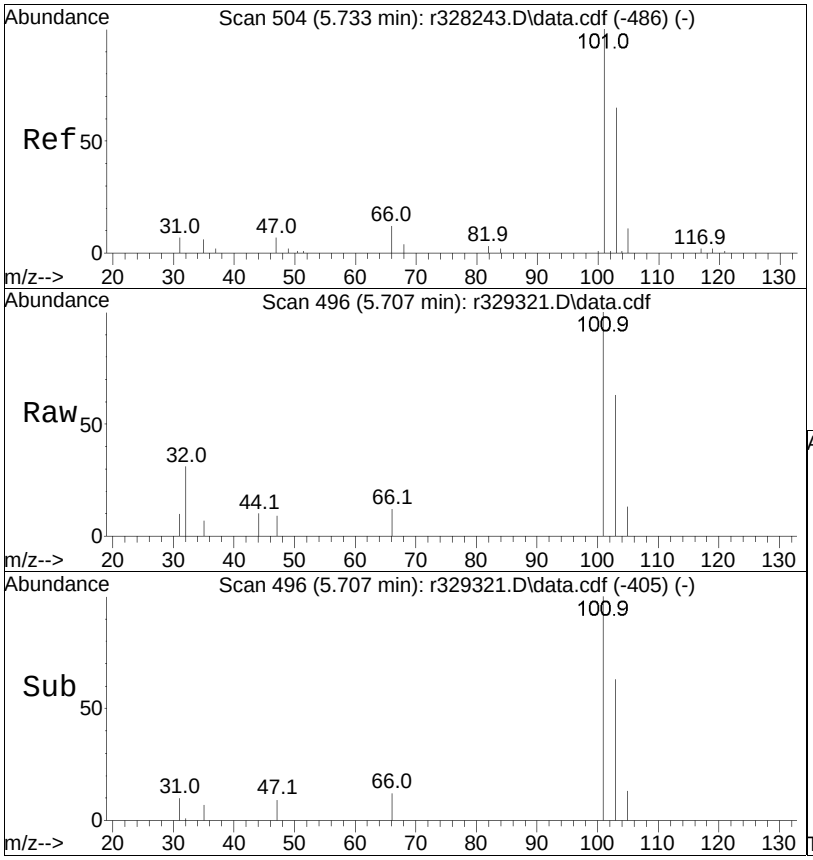


#19
acetone
Concen: 1.55 ppbV m
RT: 5.530 min Scan# 443
Delta R.T. -0.007 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 43 Resp: 40990

Ion	Ratio	Lower	Upper
43	100		
58	36.1	31.9	47.9
57	5.6	0.9	1.3#

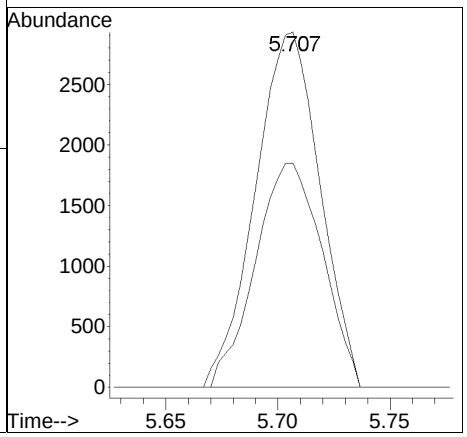


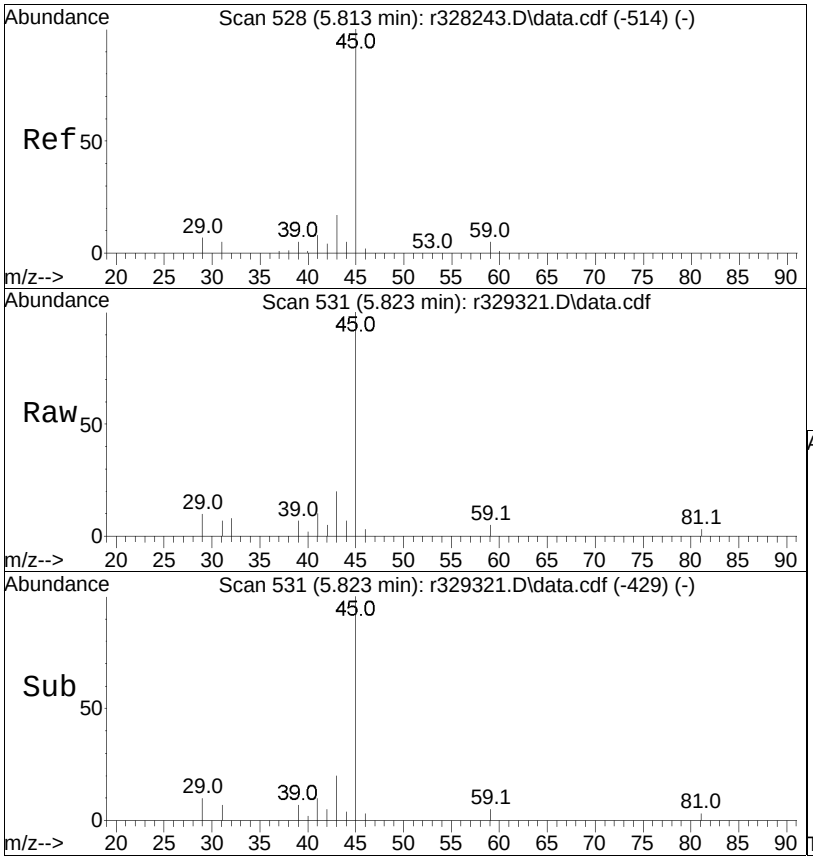


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.707 min Scan# 496
Delta R.T. -0.027 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion:101 Resp: 5894

Ion	Ratio	Lower	Upper
101	100		
103	63.1	51.7	77.5

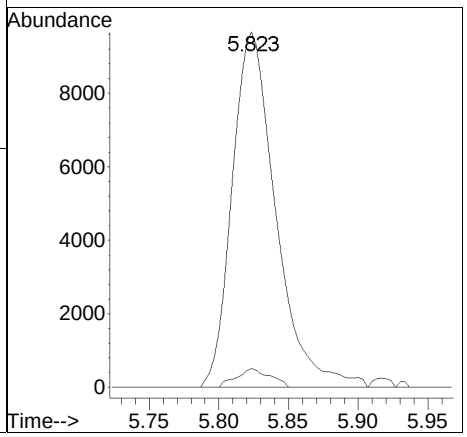


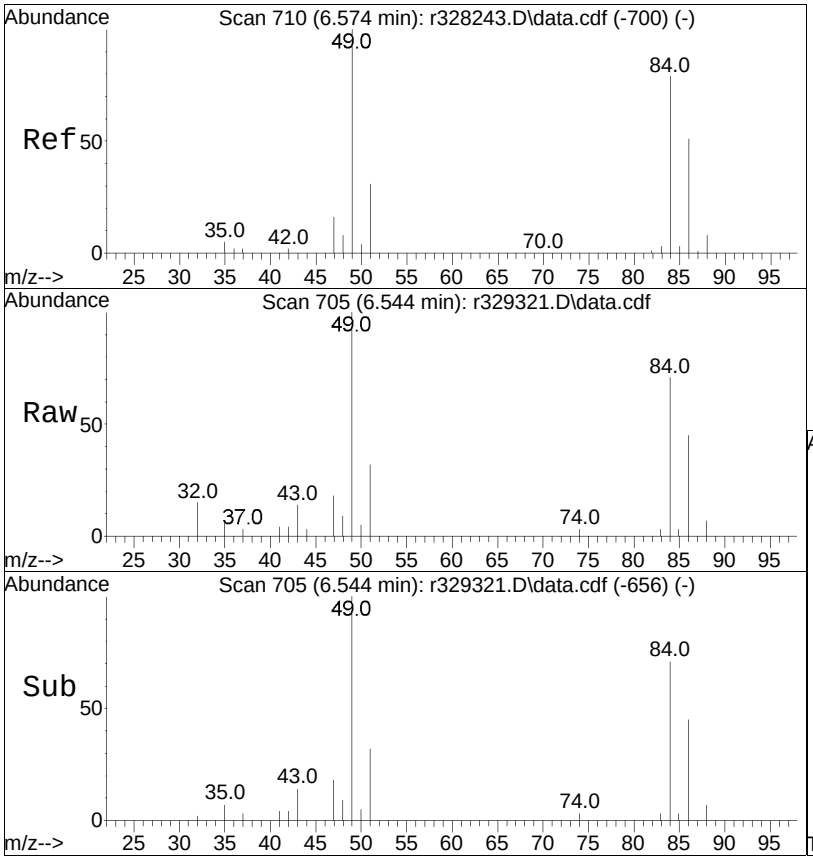


#22
isopropyl alcohol
Concen: 0.65 ppbV
RT: 5.823 min Scan# 531
Delta R.T. 0.010 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 45 Resp: 21096

Ion	Ratio	Lower	Upper
45	100		
59	5.3	3.7	5.5

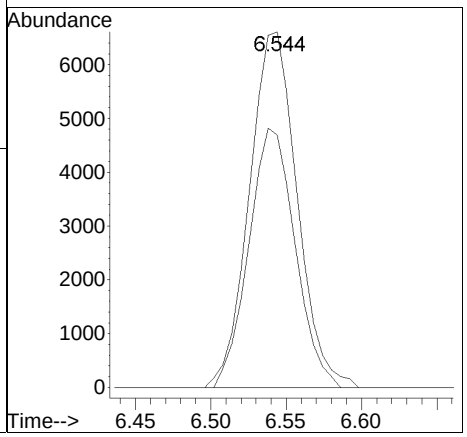


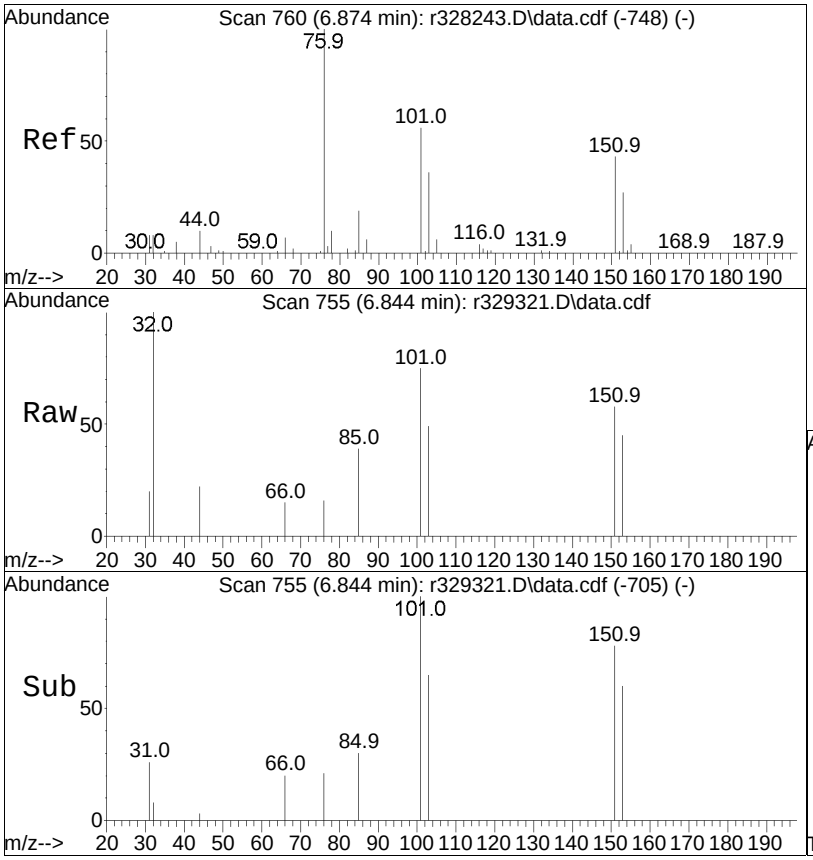


#28
methylene chloride
Concen: 0.75 ppbV
RT: 6.544 min Scan# 705
Delta R.T. -0.030 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 49 Resp: 14558

Ion	Ratio	Lower	Upper
49	100		
84	71.0	63.3	94.9

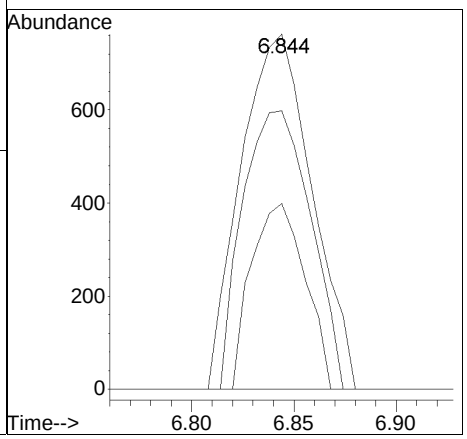


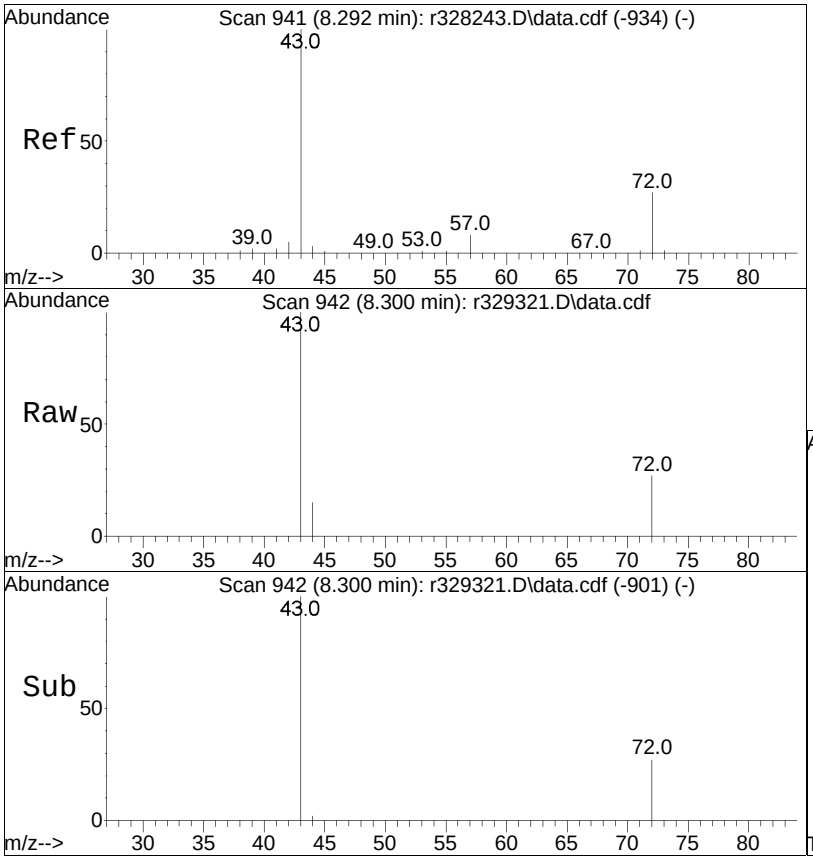


#31
Freon 113
Concen: 0.05 ppbV
RT: 6.844 min Scan# 755
Delta R.T. -0.030 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion:101 Resp: 1850

Ion	Ratio	Lower	Upper
101	100		
85	52.3	27.9	41.9#
151	78.4	61.0	91.4

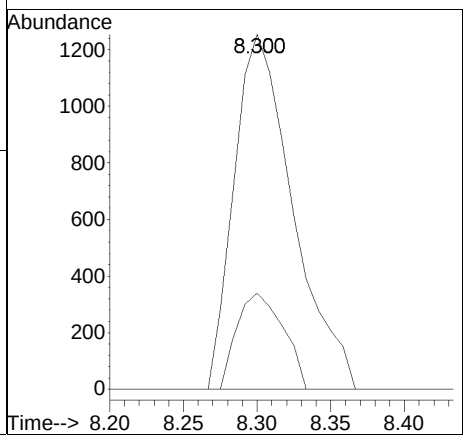


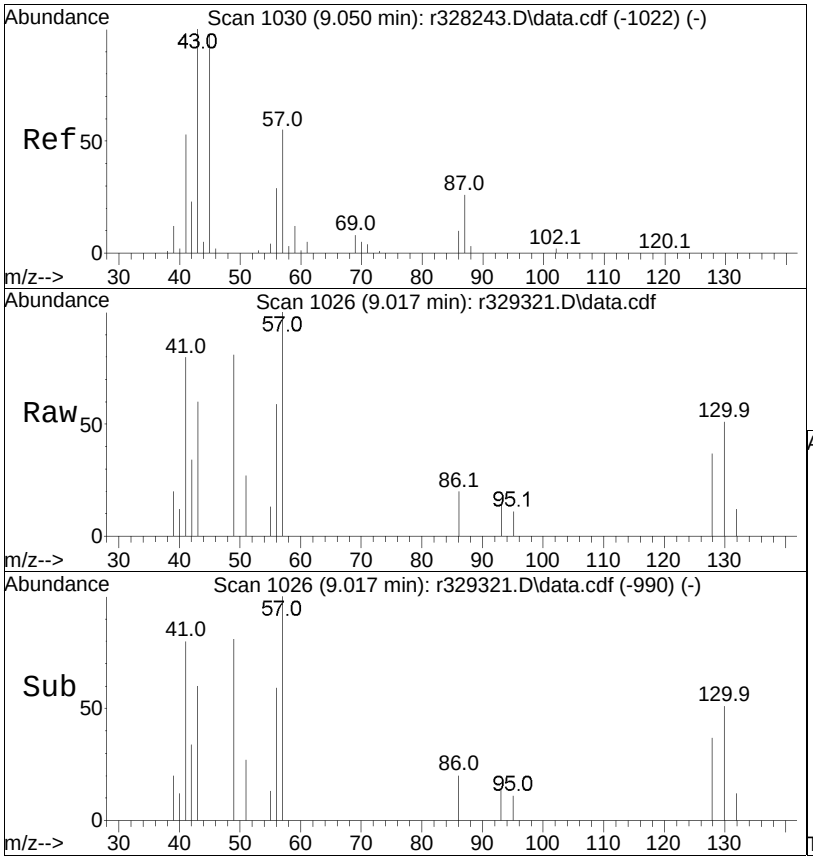


#36
2-butanone
Concen: 0.08 ppbV
RT: 8.300 min Scan# 942
Delta R.T. 0.008 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 43 Resp: 3487

Ion	Ratio	Lower	Upper
43	100		
72	27.1	21.9	32.9
57	0.0	6.6	9.8#

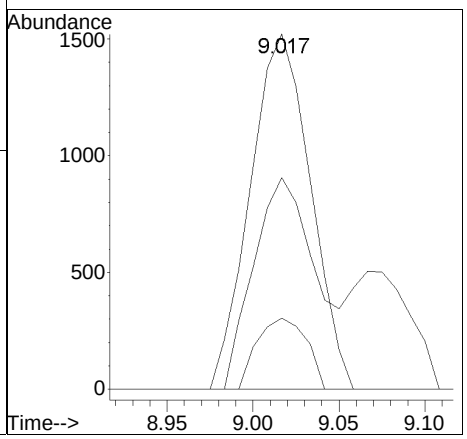


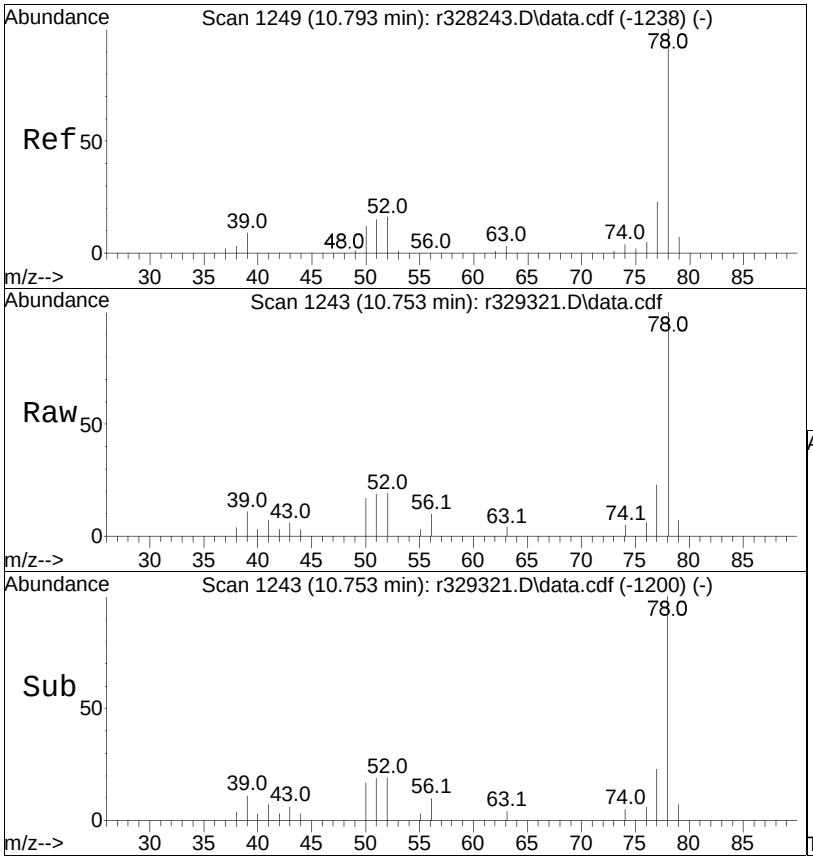


#44
hexane
Concen: 0.13 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 57 Resp: 3707

Ion	Ratio	Lower	Upper
57	100		
43	59.6	145.3	217.9#
86	20.1	14.3	21.5

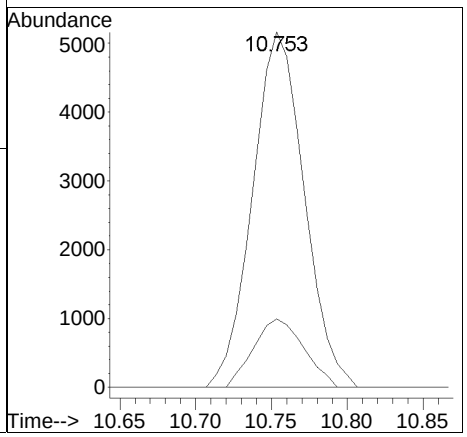


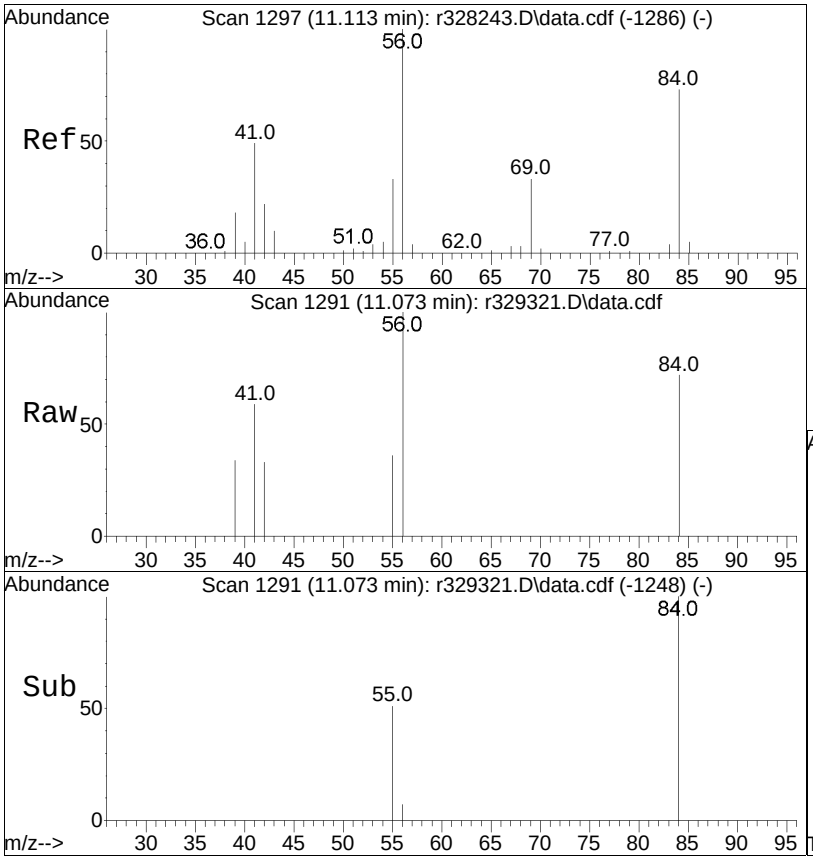


#50
benzene
Concen: 0.23 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 78 Resp: 12248

Ion	Ratio	Lower	Upper
78	100		
52	19.3	12.4	18.6#

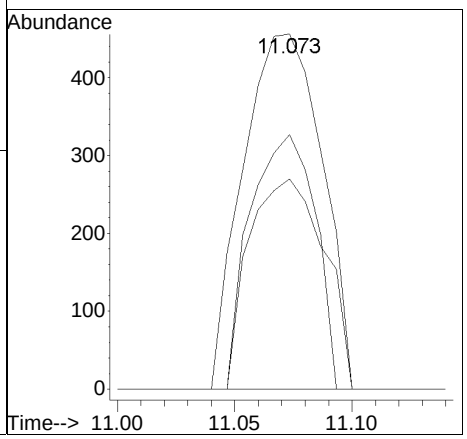


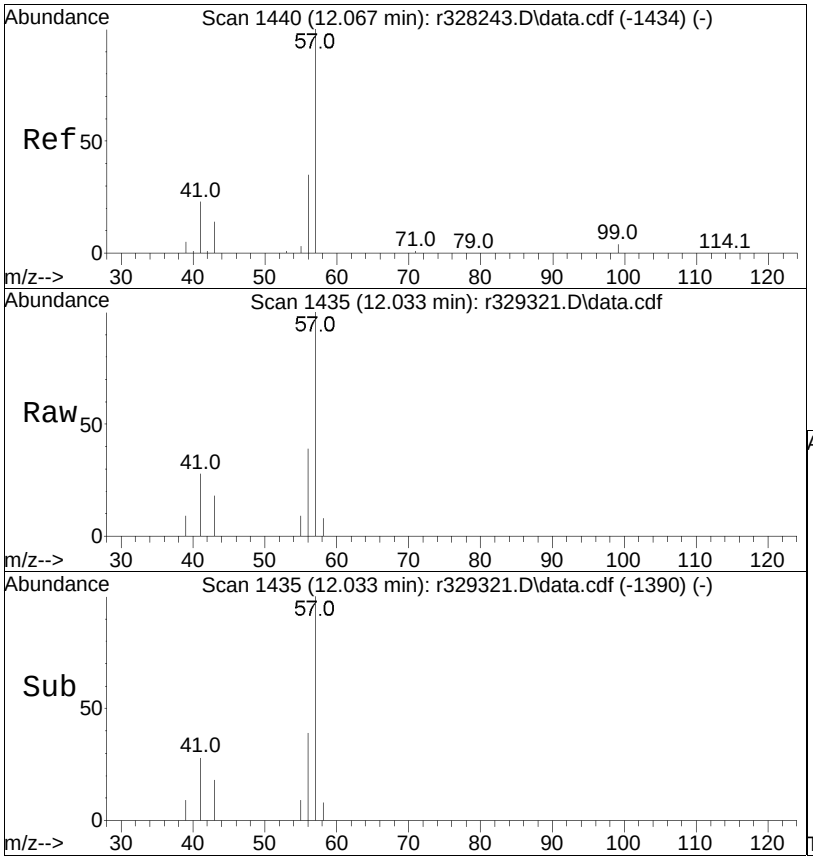


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 56 Resp: 1068

Ion	Ratio	Lower	Upper
56	100		
84	71.7	58.7	88.1
41	59.2	39.6	59.4

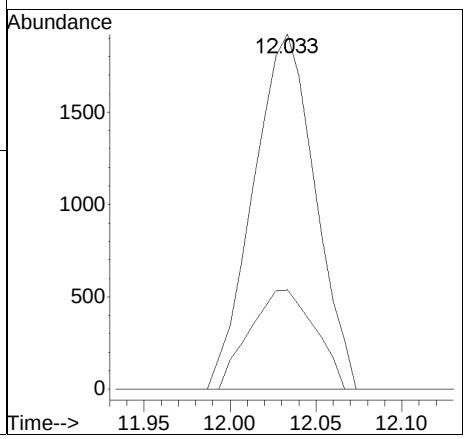


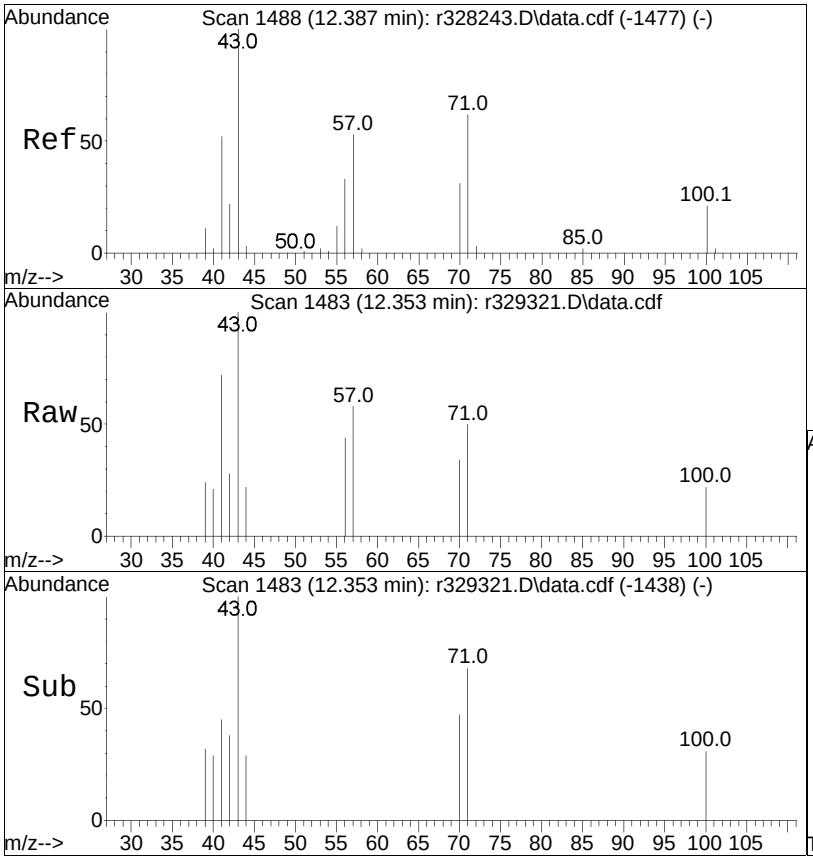


#60
2,2,4-trimethylpentane
Concen: 0.05 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 57 Resp: 4811

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	28.0	18.2	27.4#

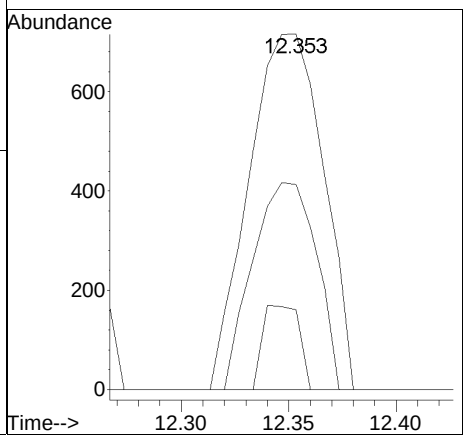


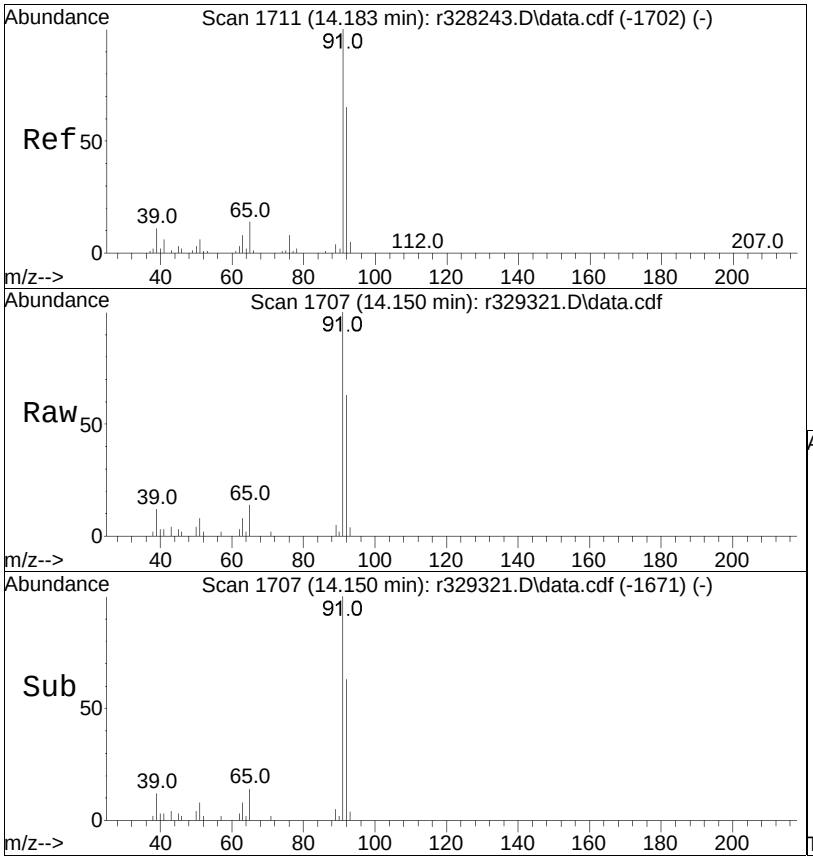


#62
heptane
Concen: 0.05 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 43 Resp: 1729

Ion	Ratio	Lower	Upper
43	100		
57	57.7	42.6	64.0
100	22.5	17.0	25.4

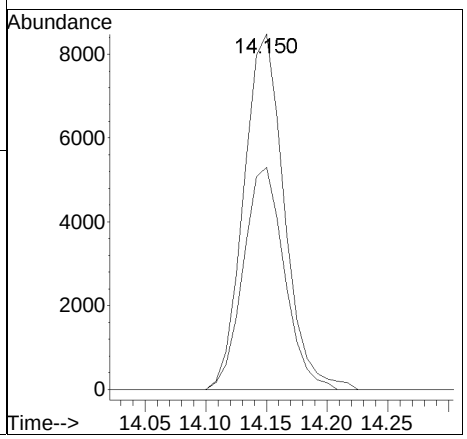


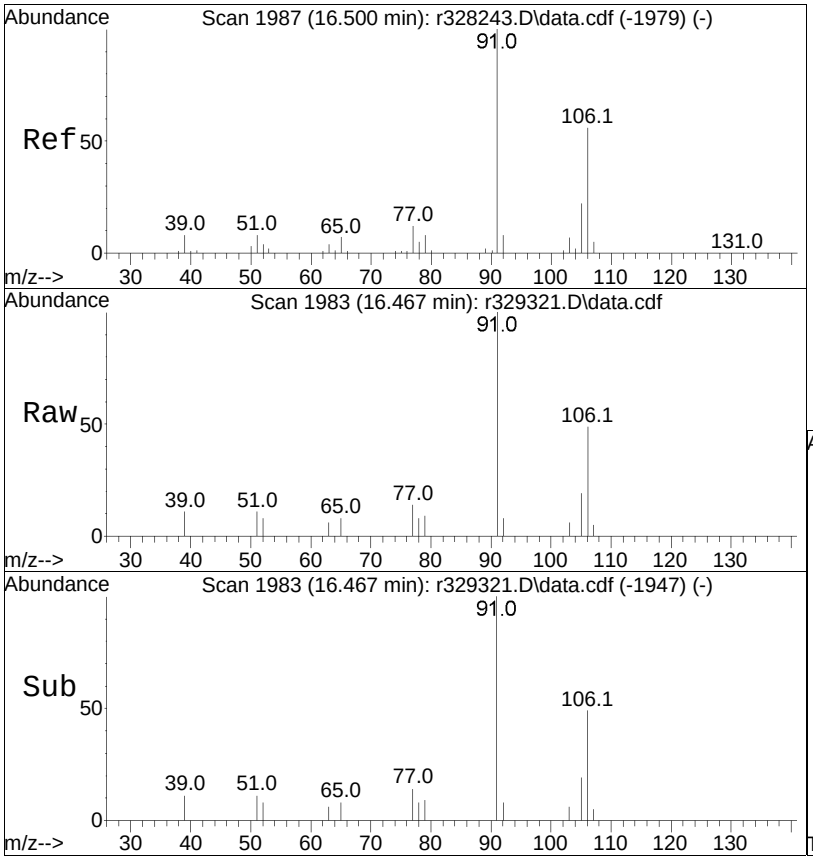


#68
toluene
Concen: 0.23 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 91 Resp: 19735

Ion	Ratio	Lower	Upper
91	100		
92	62.5	52.1	78.1

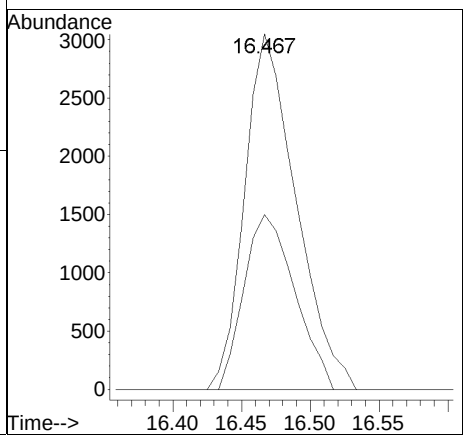


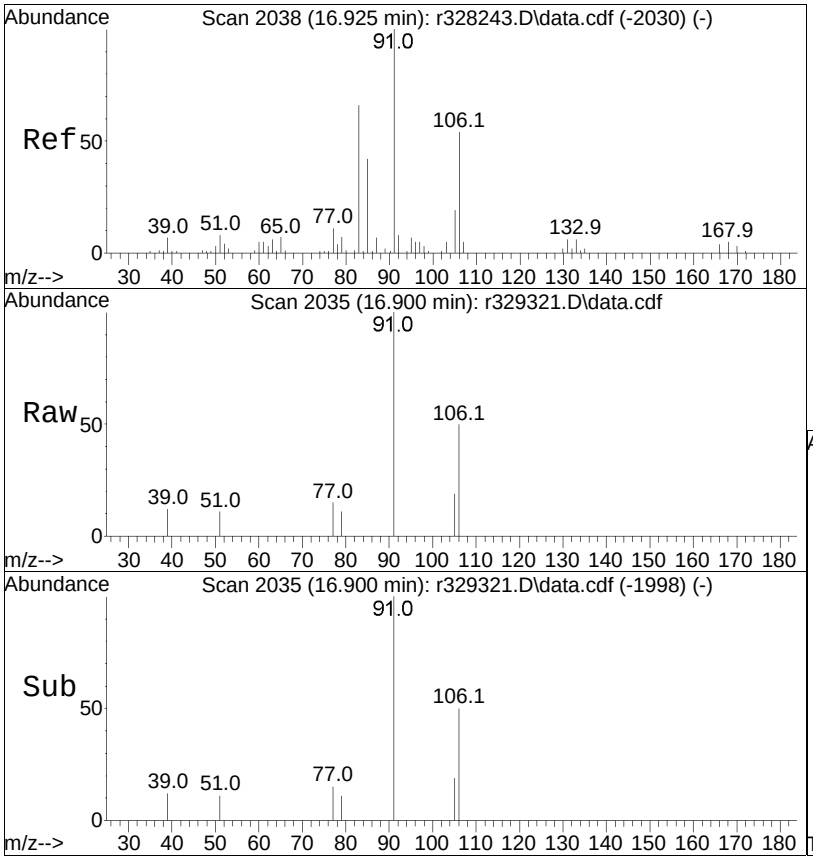


#83
m+p-xylene
Concen: 0.09 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 91 Resp: 7942

Ion	Ratio	Lower	Upper
91	100		
106	49.2	44.8	67.2

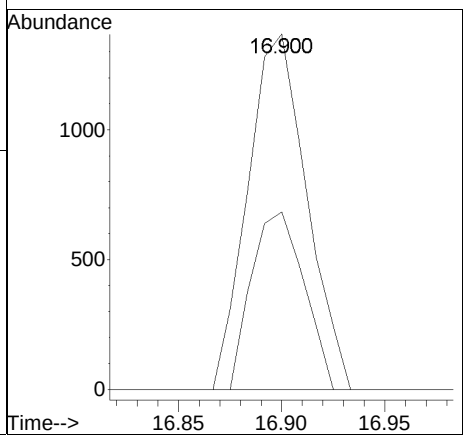




#87
o-xylene
Concen: 0.03 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329321.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion: 91 Resp: 2717

Ion	Ratio	Lower	Upper
91	100		
106	50.0	43.0	64.6

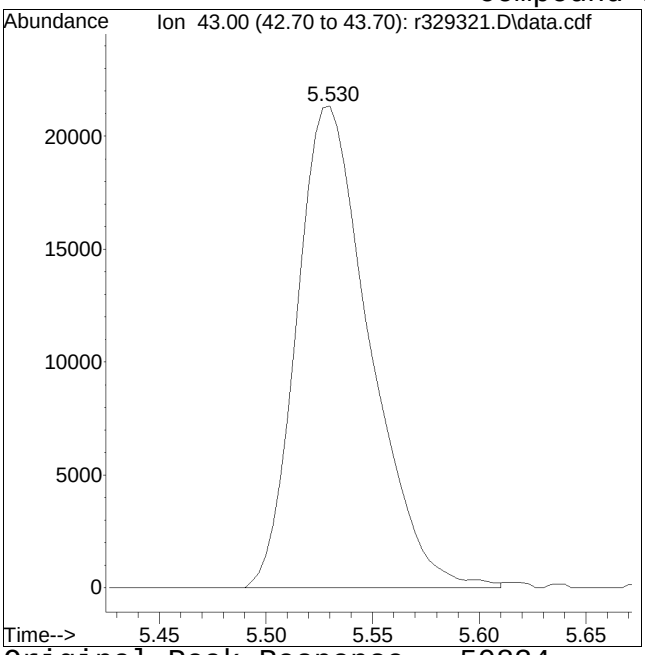


Manual Integration Report

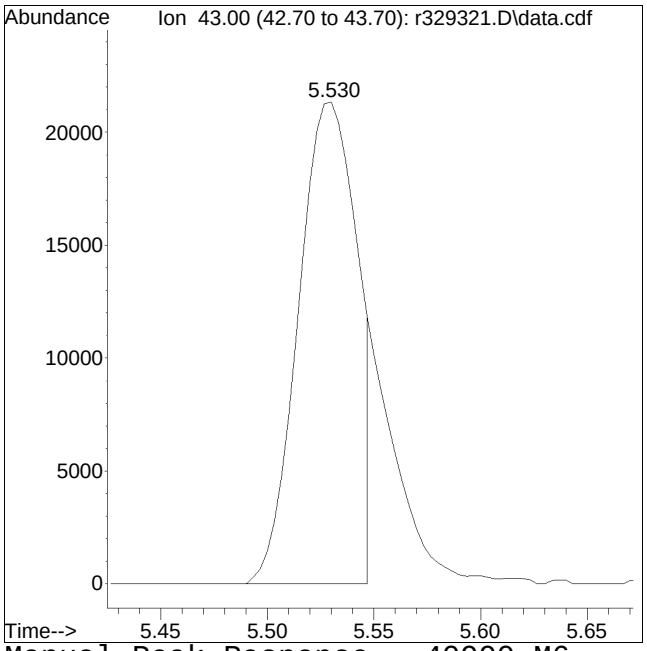
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329321.D
Date Inj'd : 2/25/2020 0:9: 0
Sample : L2409224-03,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:08 am

Compound #19: acetone



Original Peak Response = 50834



Manual Peak Response = 40990 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329322.D
Acq On : 25 Feb 2024 9:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-04,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	241012	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		86.01%	
43) 1,4-difluorobenzene	11.180	114	629006	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		81.87%	
67) chlorobenzene-D5	15.917	54	123067	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		85.99%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15657	0.558	ppbV	97
6) chloromethane	4.044	50	8214	0.594	ppbV	99
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.410	54	419	0.032	ppbV	85
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.998	31	762556	79.411	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.520	43	70472M6	2.743	ppbV	
21) trichlorofluoromethane	5.700	101	6364	0.218	ppbV	93
22) isopropyl alcohol	5.807	45	113629	3.626	ppbV	100
27) tertiary butyl alcohol	6.496	59	2148	0.057	ppbV #	64
28) methylene chloride	6.538	49	4958	0.264	ppbV	86
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.838		0	N.D.		
31) Freon 113	6.838	101	2848	0.087	ppbV #	93
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	8.283	43	4888	0.118	ppbV #	96
38) Ethyl Acetate	9.050		0	N.D.		
39) chloroform	9.100	83	1540	0.053	ppbV #	91
40) Tetrahydrofuran	9.592		0	N.D.		
42) 1,2-dichloroethane	9.933		0	N.D.		
44) hexane	9.017	57	2127	0.075	ppbV #	23
50) benzene	10.753	78	14004	0.271	ppbV #	90
53) cyclohexane	11.067		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329322.D
Acq On : 25 Feb 2024 9:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-04,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

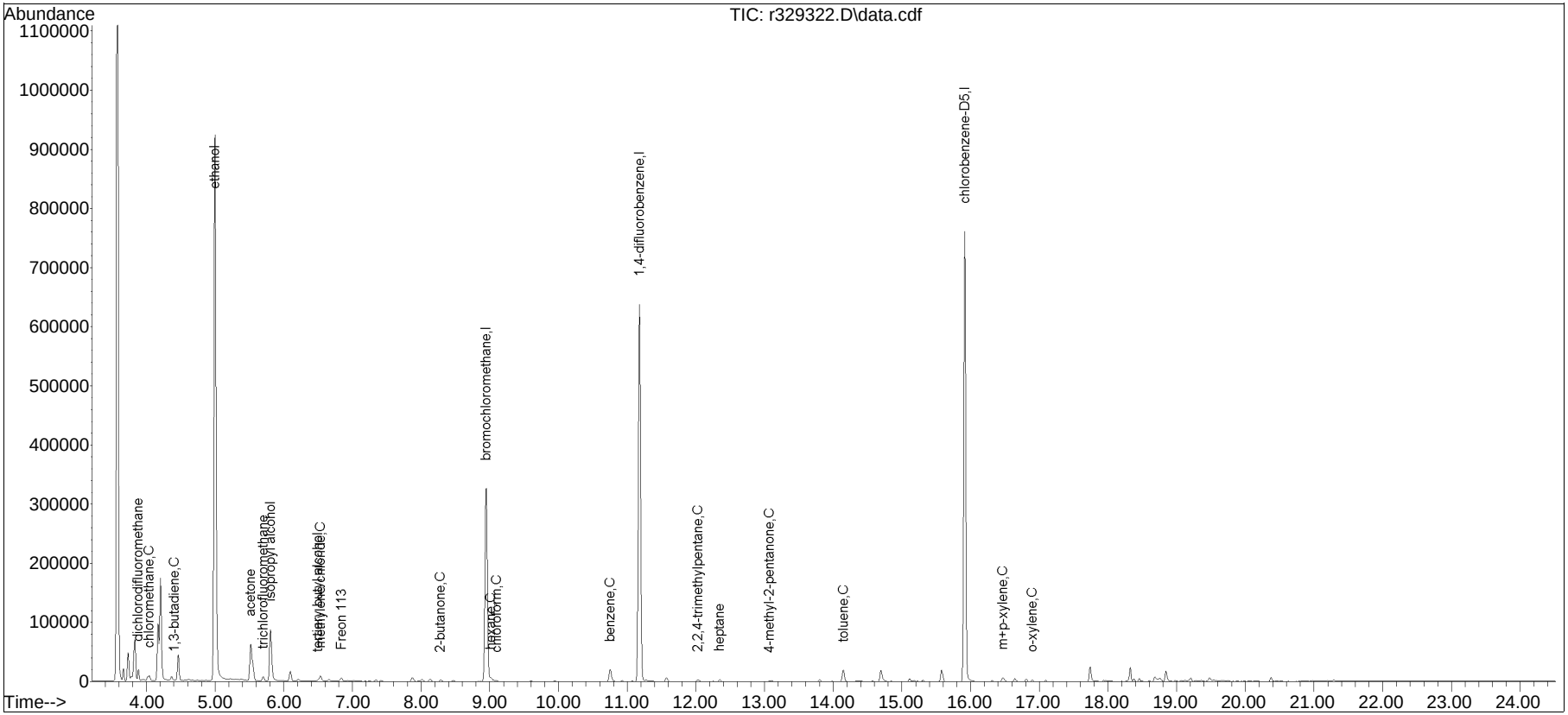
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	3630	0.038	ppbV #	86
62) heptane	12.347	43	2063	0.061	ppbV	98
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.075	43	1441	0.037	ppbV #	85
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	17938	0.211	ppbV	100
72) 2-hexanone	14.417		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.308		0	N.D.		
83) m+p-xylene	16.467	91	6871	0.082	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	16.808		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	2655	0.032	ppbV	88
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101) Benzyl Chloride	18.675		0	N.D.		
102) 1,3-dichlorobenzene	18.575		0	N.D.		
103) 1,4-dichlorobenzene	18.575		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

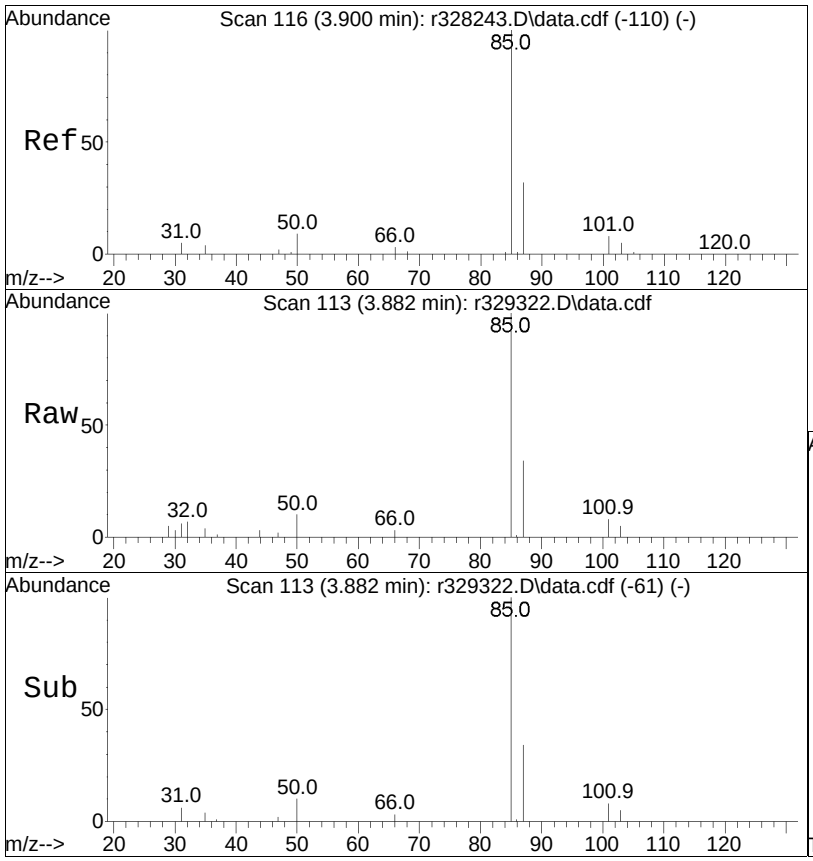
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329322.D
Acq On : 25 Feb 2024 9:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-04,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

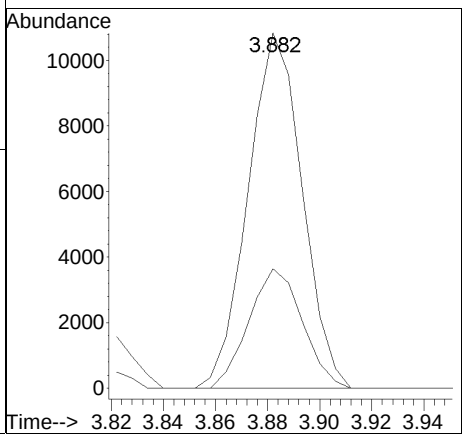


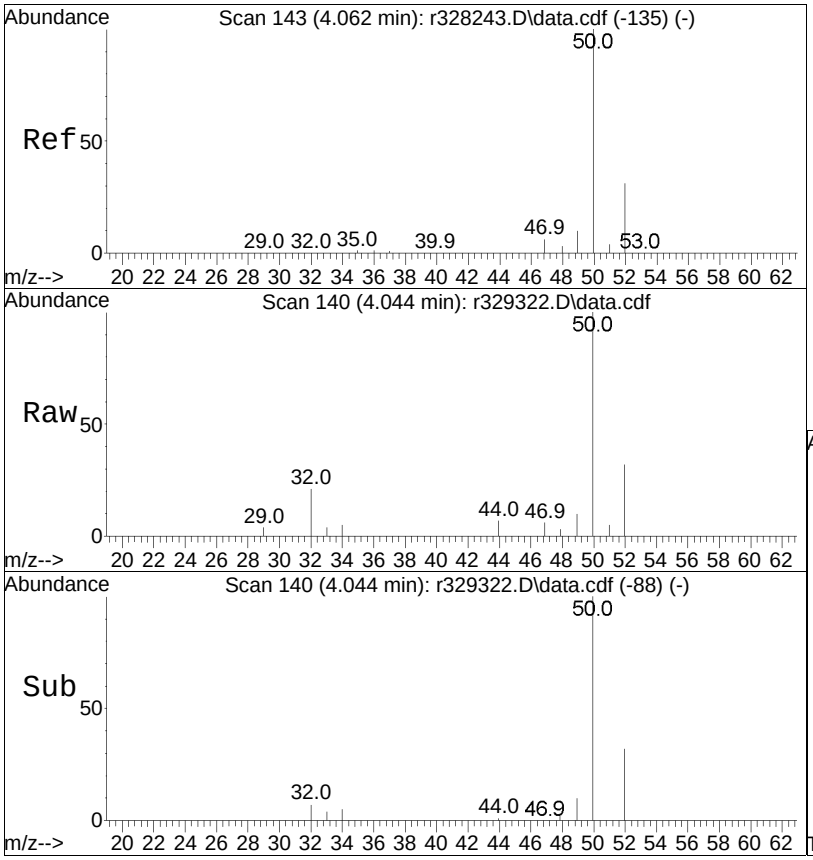


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 85 Resp: 15657

Ion	Ratio	Lower	Upper
85	100		
87	33.7	25.7	38.5

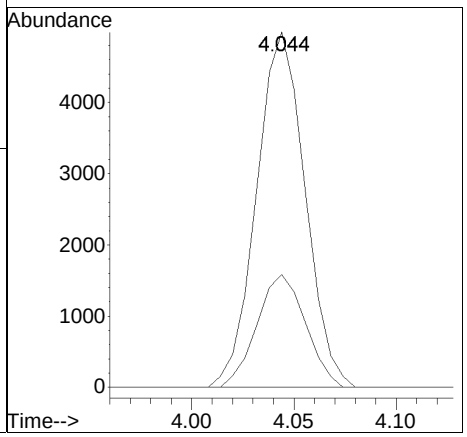


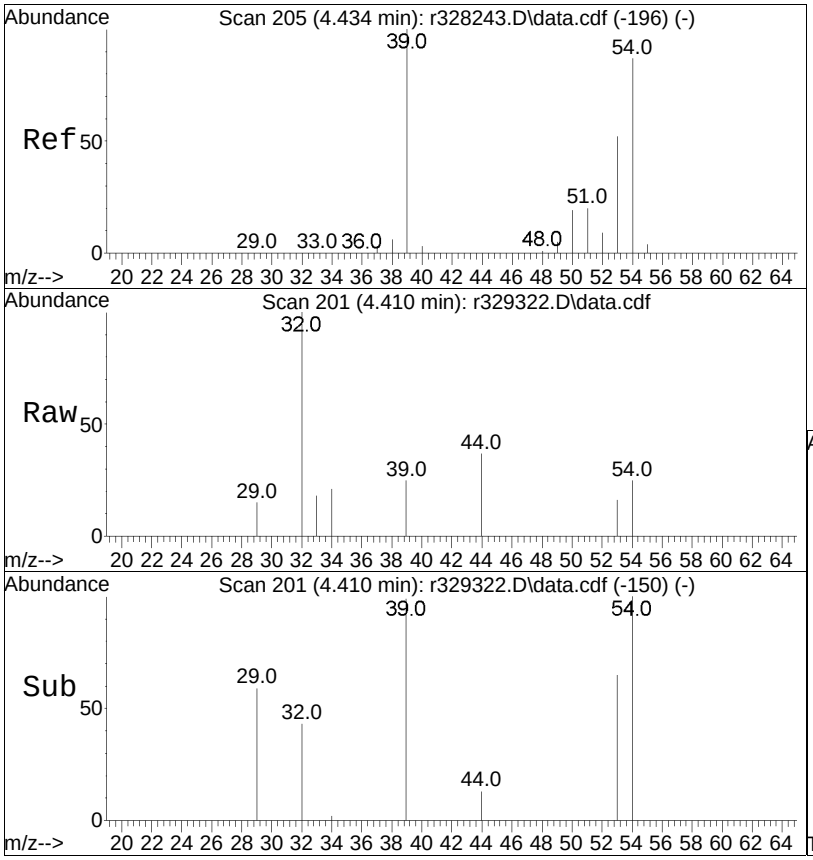


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 50 Resp: 8214

Ion	Ratio	Lower	Upper
50	100		
52	31.8	25.0	37.6

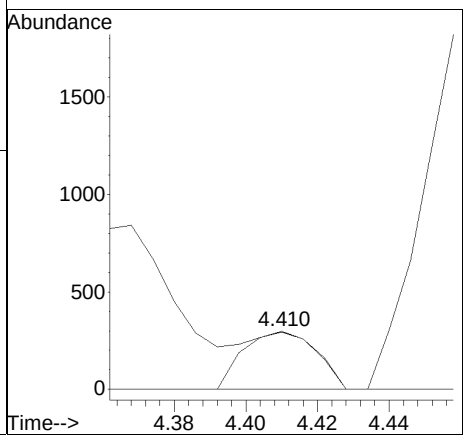


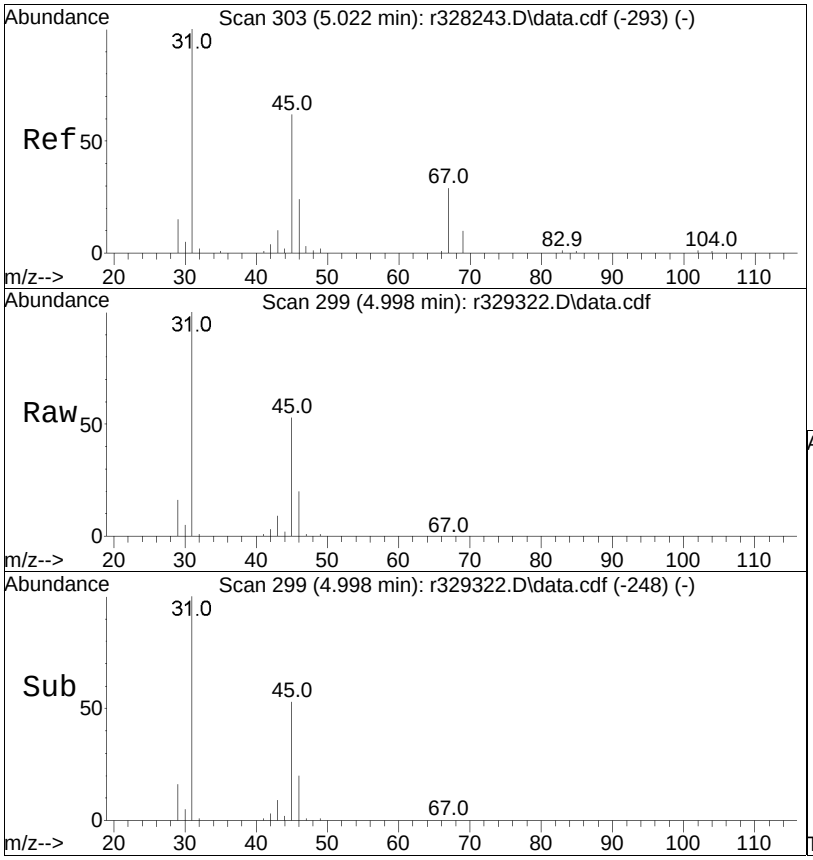


#10
1,3-butadiene
Concen: 0.03 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 54 Resp: 419

Ion	Ratio	Lower	Upper
54	100		
39	98.7	92.3	138.5

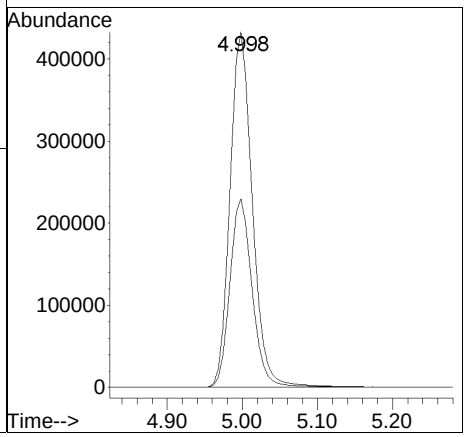


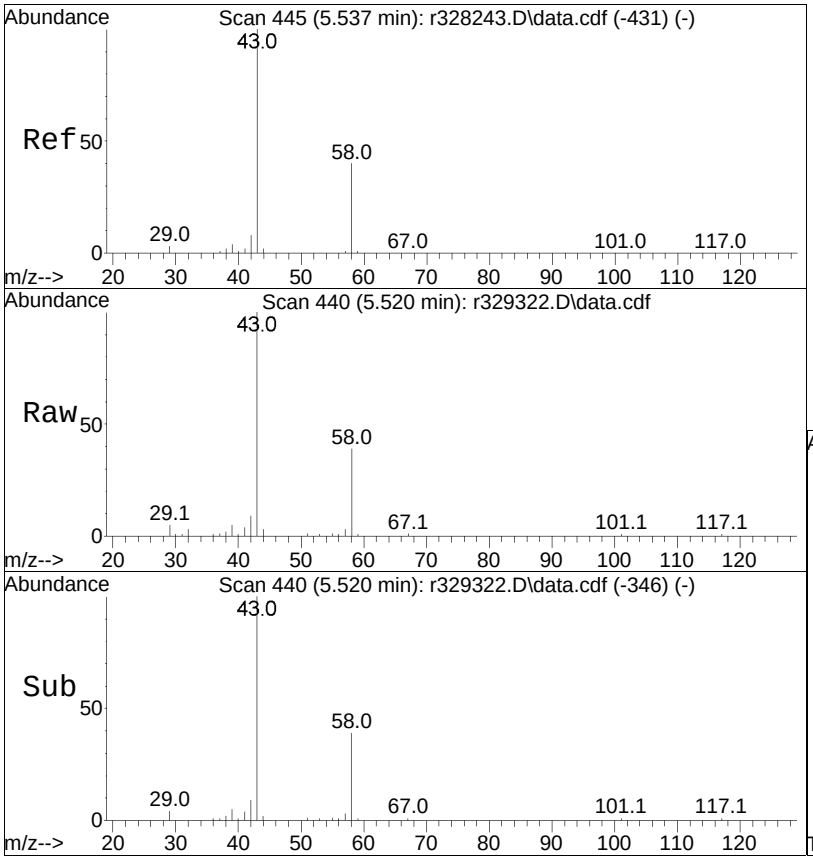


#15
ethanol
Concen: 79.41 ppbV
RT: 4.998 min Scan# 299
Delta R.T. -0.024 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 31 Resp: 762556

Ion	Ratio	Lower	Upper
31	100		
45	53.1	49.8	74.6

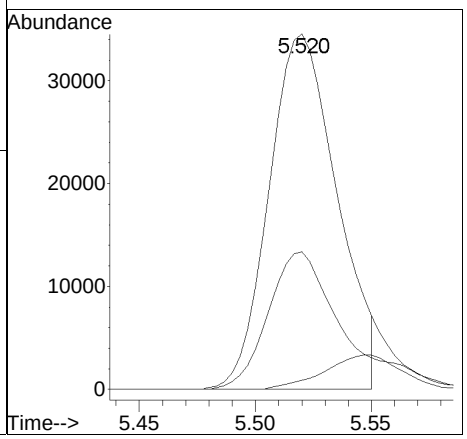


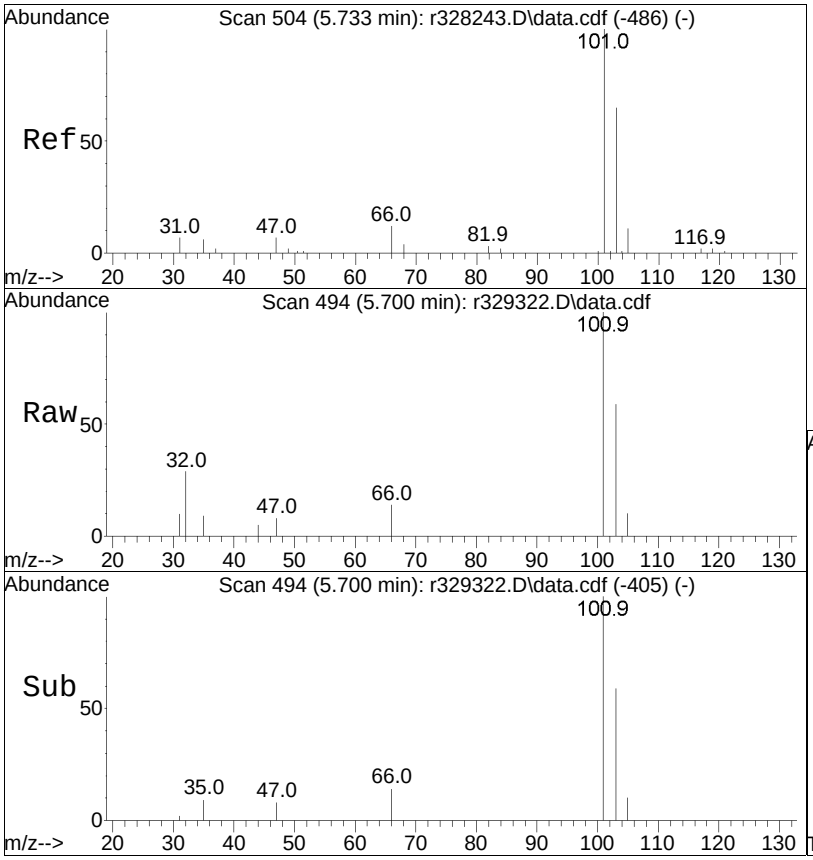


#19
acetone
Concen: 2.74 ppbV m
RT: 5.520 min Scan# 440
Delta R.T. -0.017 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 43 Resp: 70472

Ion	Ratio	Lower	Upper
43	100		
58	38.7	31.9	47.9
57	2.6	0.9	1.3#

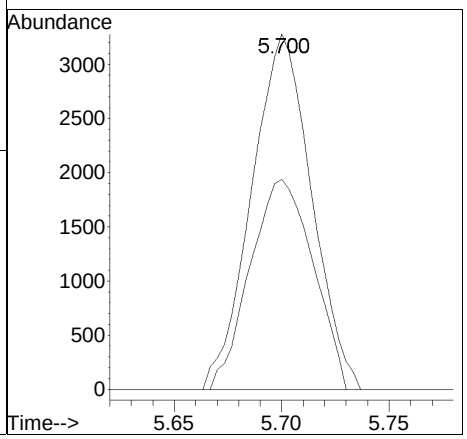


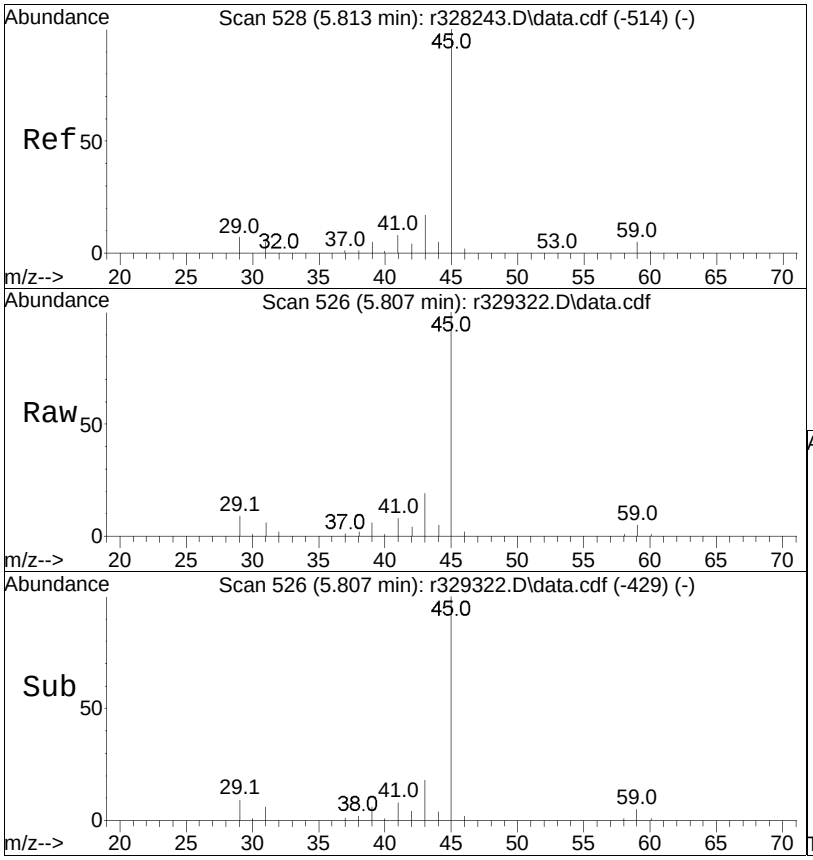


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 5.700 min Scan# 494
Delta R.T. -0.033 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion:101 Resp: 6364

Ion	Ratio	Lower	Upper
101	100		
103	59.1	51.7	77.5

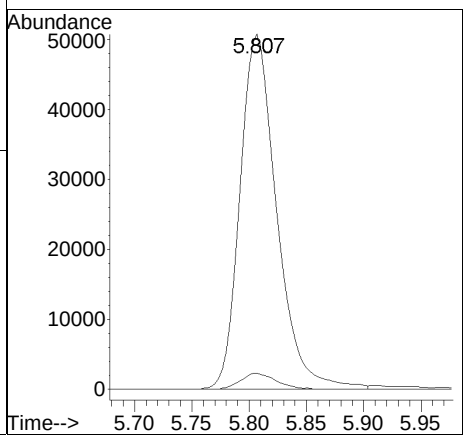


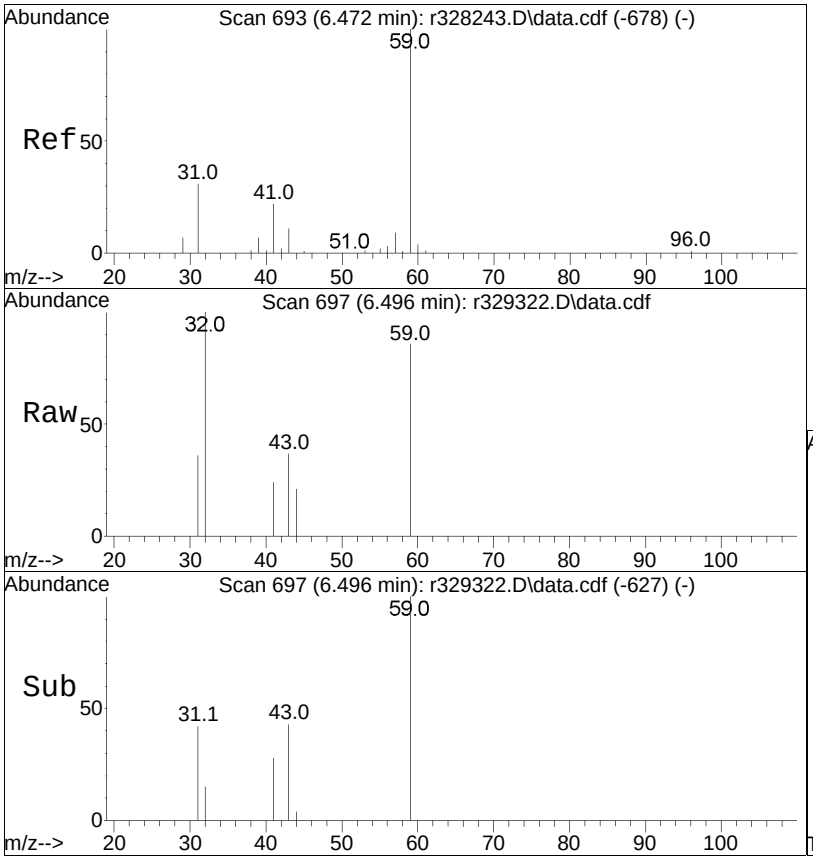


#22
isopropyl alcohol
Concen: 3.63 ppbV
RT: 5.807 min Scan# 526
Delta R.T. -0.007 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 45 Resp: 113629

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.7	5.5

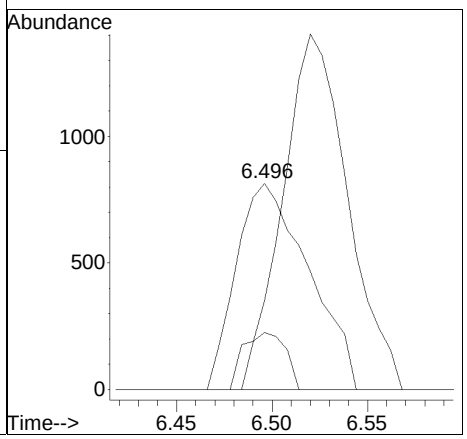


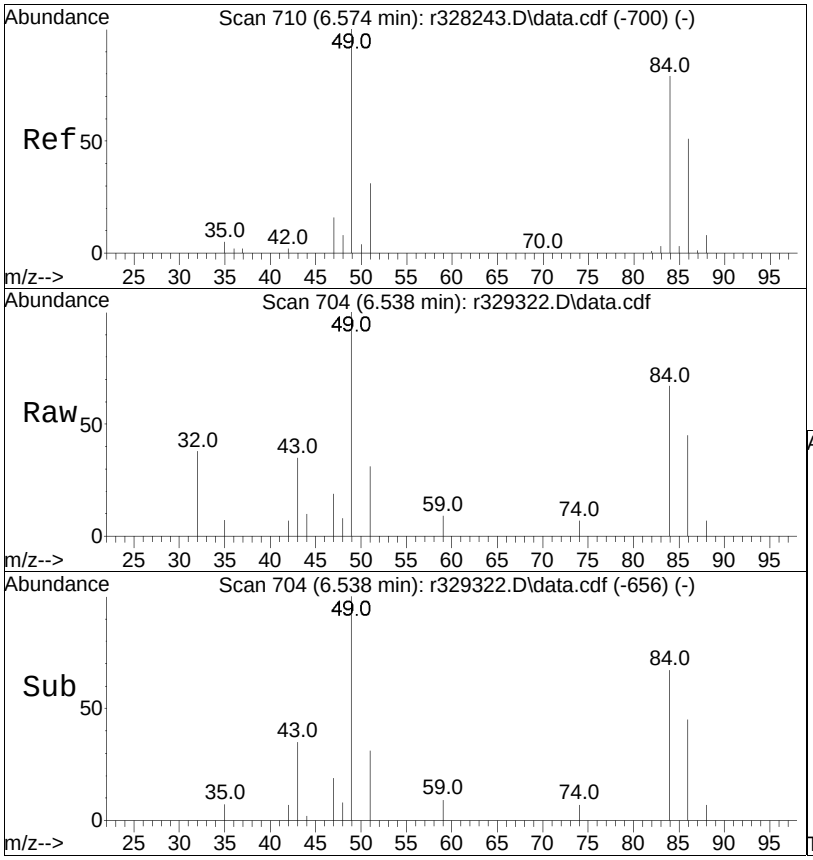


#27
tertiary butyl alcohol
Concen: 0.06 ppbV
RT: 6.496 min Scan# 697
Delta R.T. 0.024 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 59 Resp: 2148

Ion	Ratio	Lower	Upper
59	100		
41	27.6	17.5	26.3#
43	43.1	8.4	12.6#

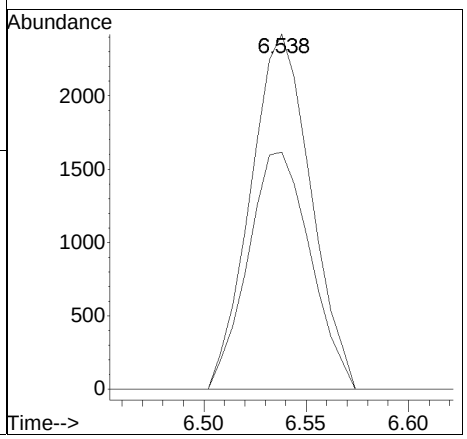


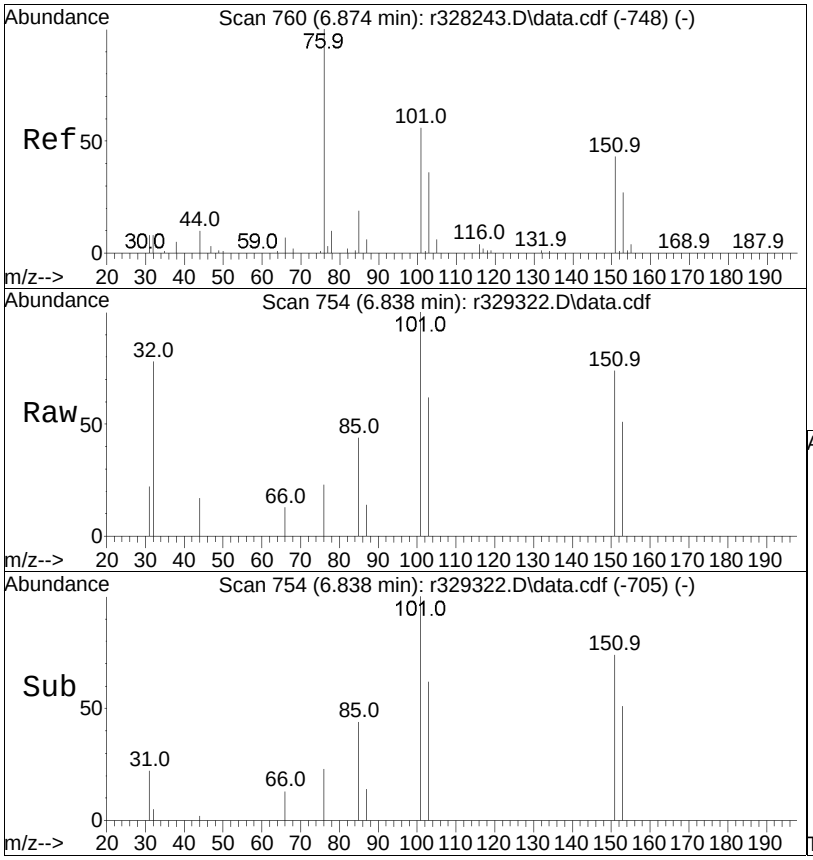


#28
methylene chloride
Concen: 0.26 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 49 Resp: 4958

Ion	Ratio	Lower	Upper
49	100		
84	66.8	63.3	94.9

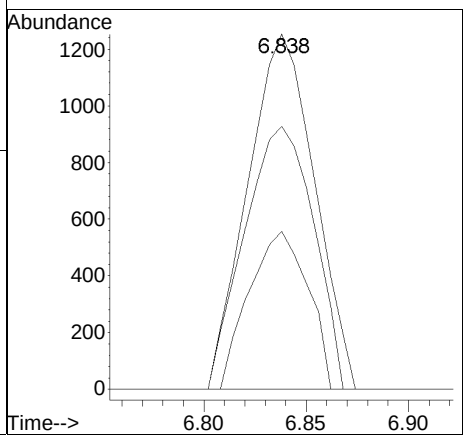


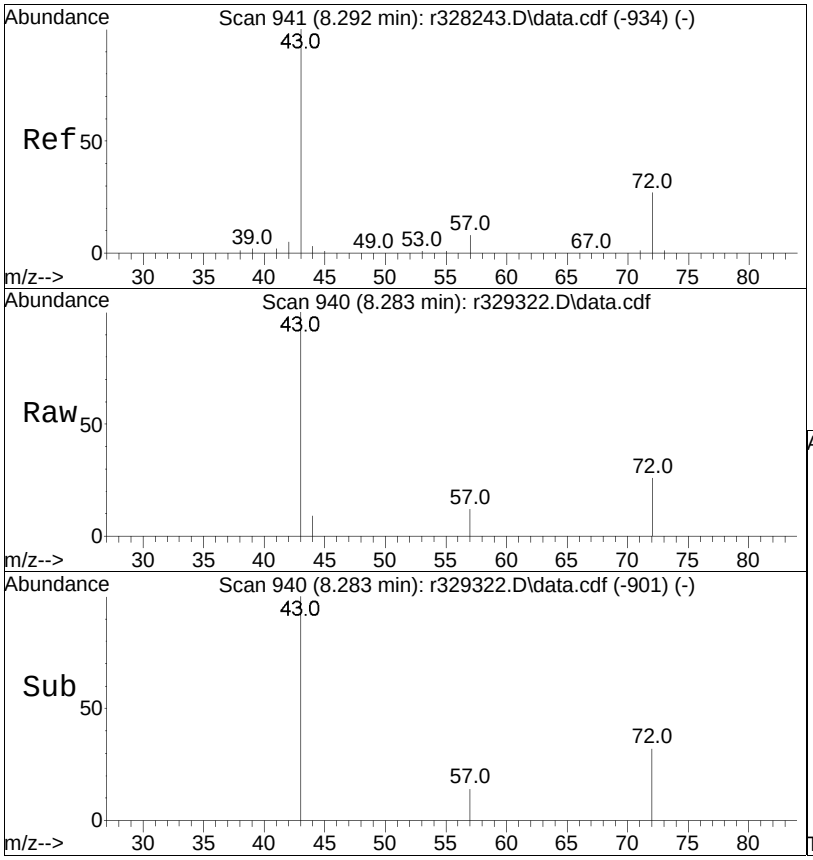


#31
Freon 113
Concen: 0.09 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion:101 Resp: 2848

Ion	Ratio	Lower	Upper
101	100		
85	44.5	27.9	41.9#
151	74.1	61.0	91.4

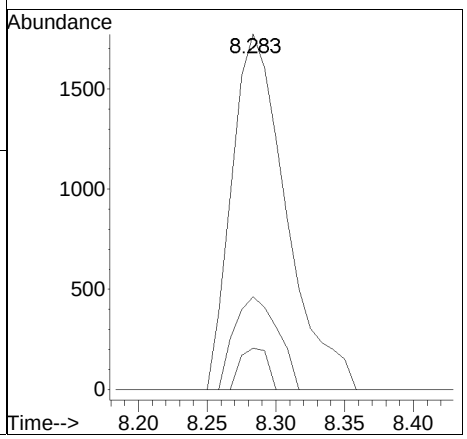


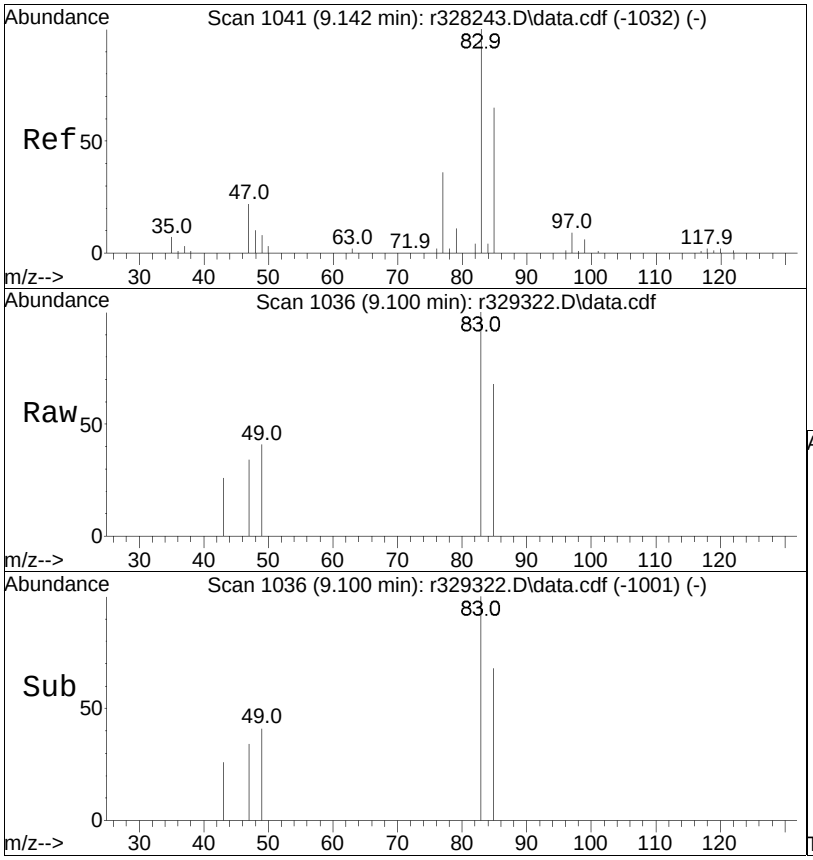


#36
2-butanone
Concen: 0.12 ppbV
RT: 8.283 min Scan# 940
Delta R.T. -0.008 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 43 Resp: 4888

Ion	Ratio	Lower	Upper
43	100		
72	26.1	21.9	32.9
57	11.6	6.6	9.8#

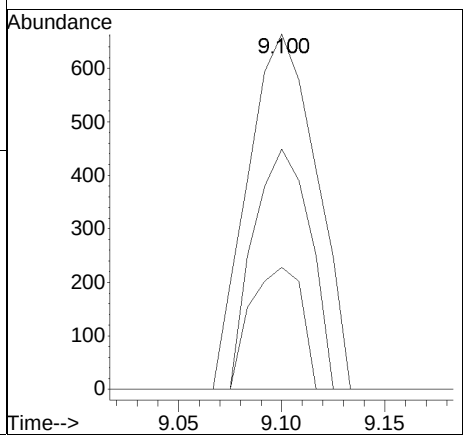


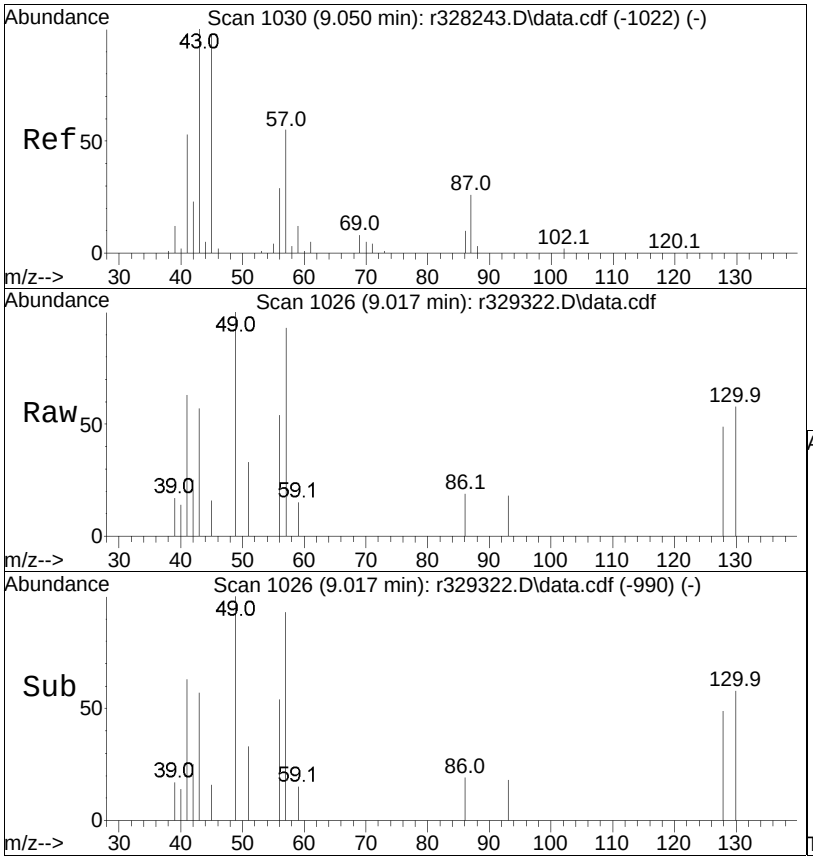


#39
chloroform
Concen: 0.05 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 83 Resp: 1540

Ion	Ratio	Lower	Upper
83	100		
85	67.6	52.2	78.4
47	34.3	17.4	26.2#

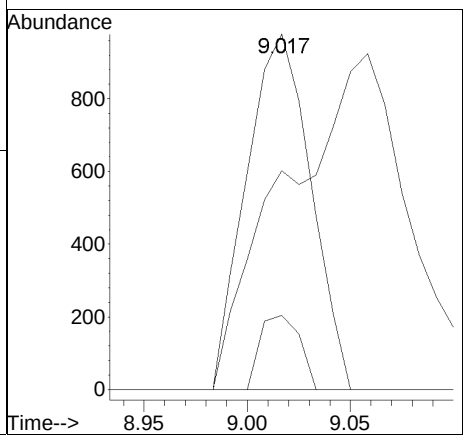


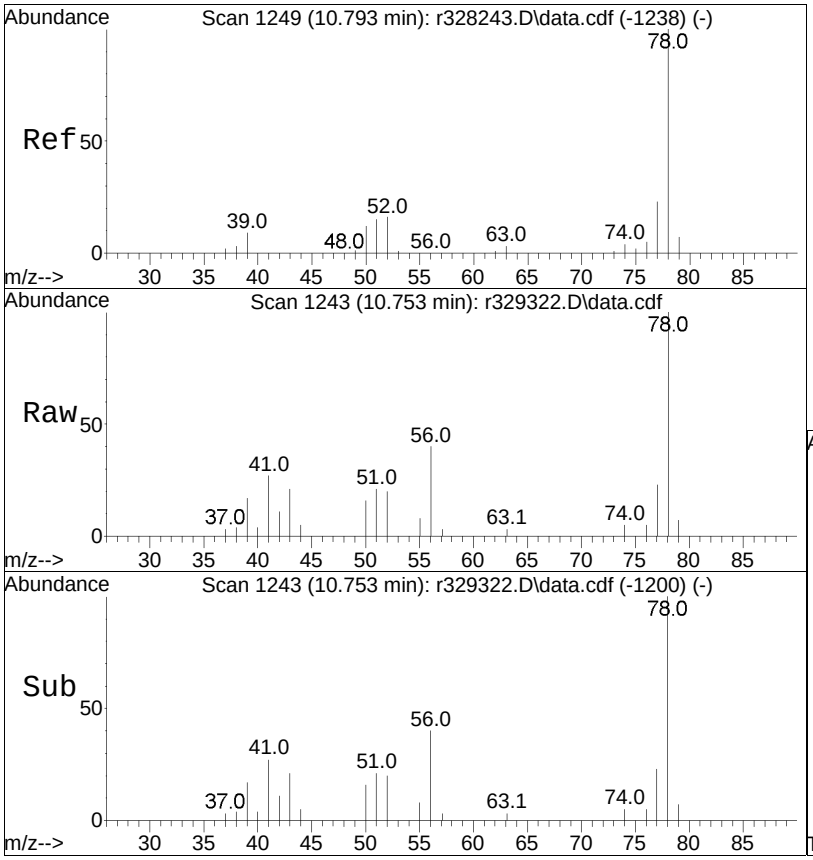


#44
hexane
Concen: 0.08 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 57 Resp: 2127

Ion	Ratio	Lower	Upper
57	100		
43	61.6	145.3	217.9#
86	20.9	14.3	21.5

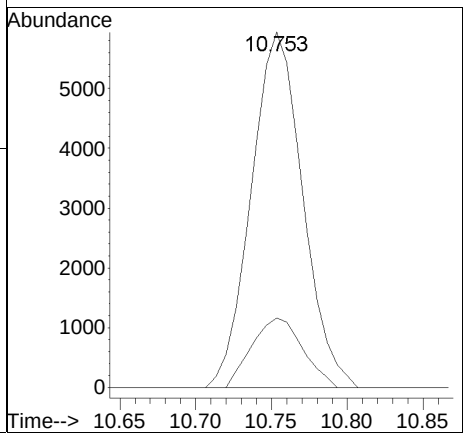


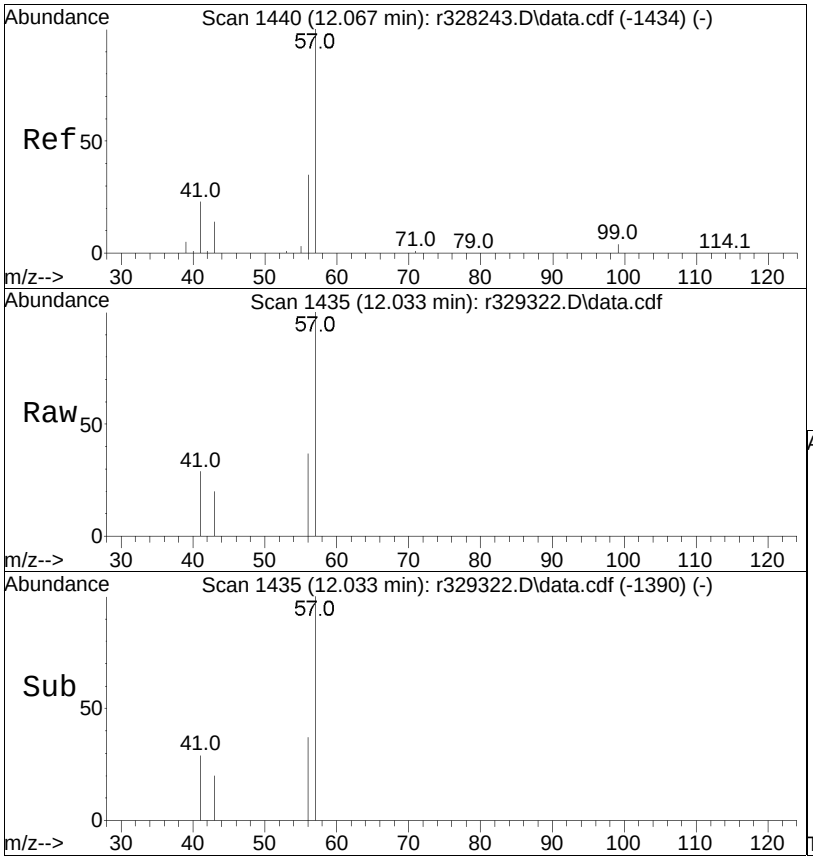


#50
benzene
Concen: 0.27 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 78 Resp: 14004

Ion	Ratio	Lower	Upper
78	100		
52	19.5	12.4	18.6#

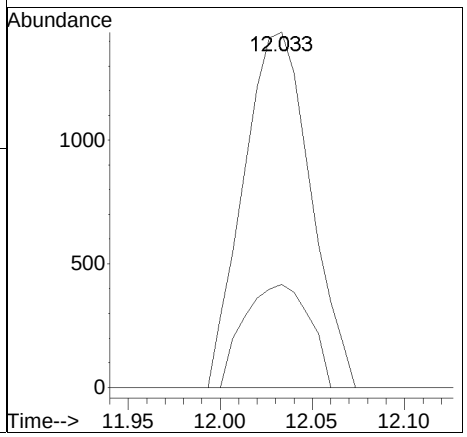


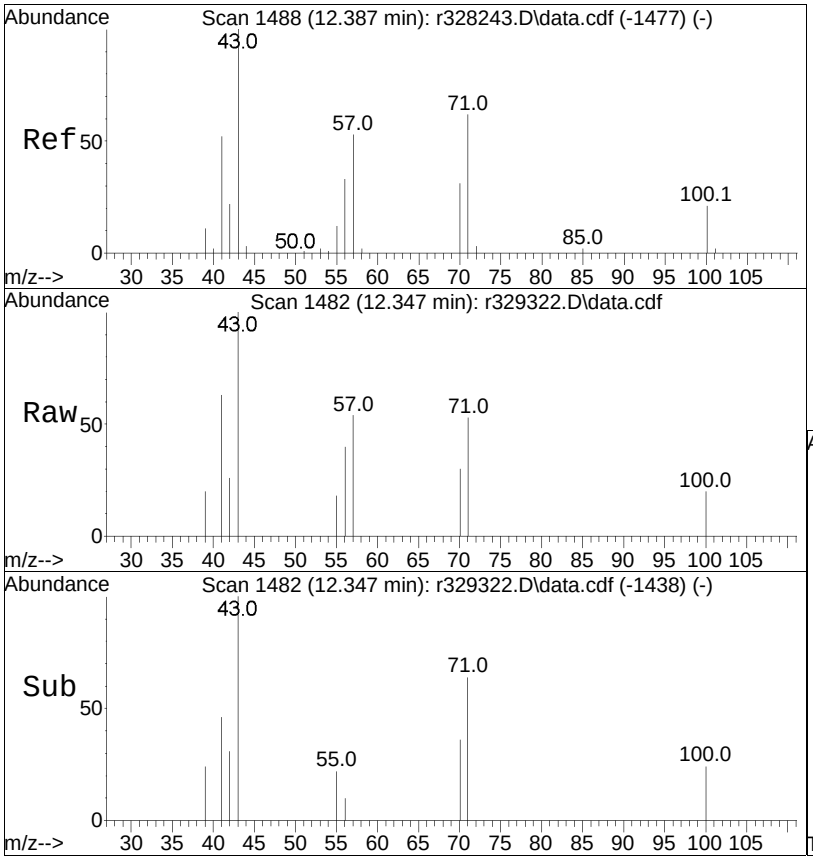


#60
2,2,4-trimethylpentane
Concen: 0.04 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 57 Resp: 3630

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	29.0	18.2	27.4#

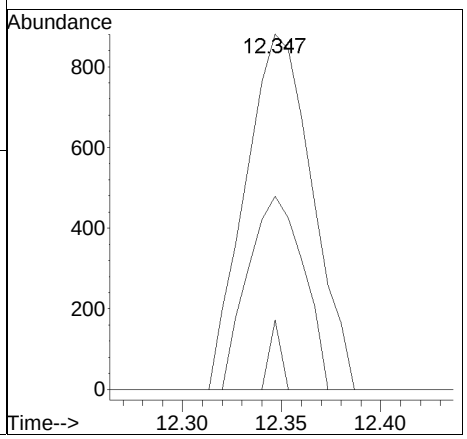


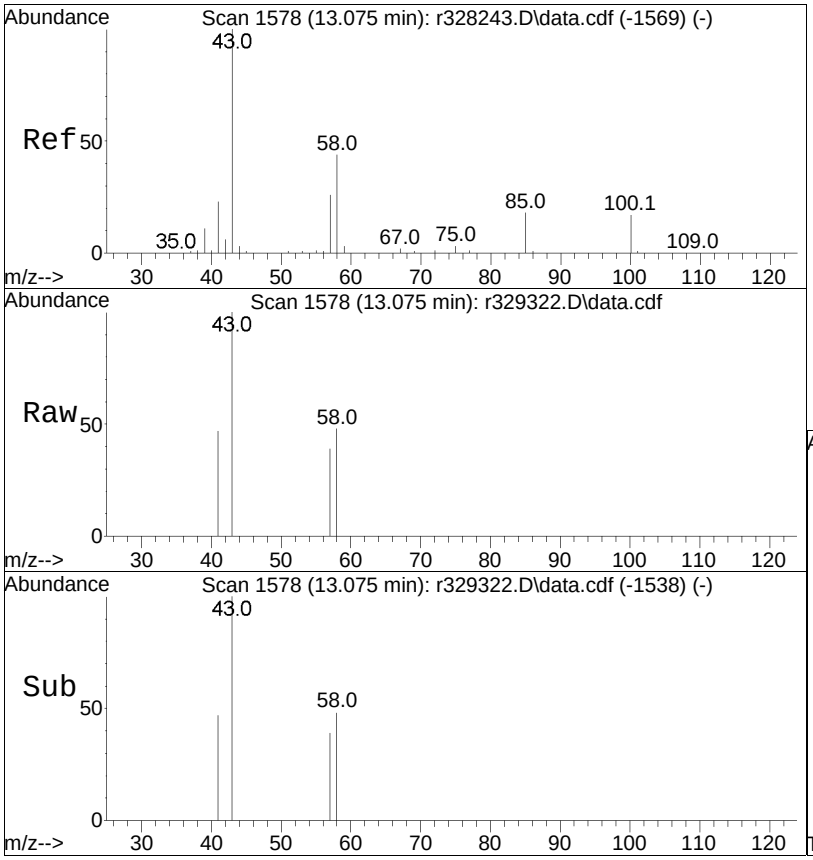


#62
heptane
Concen: 0.06 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 43 Resp: 2063

Ion	Ratio	Lower	Upper
43	100		
57	54.4	42.6	64.0
100	19.5	17.0	25.4

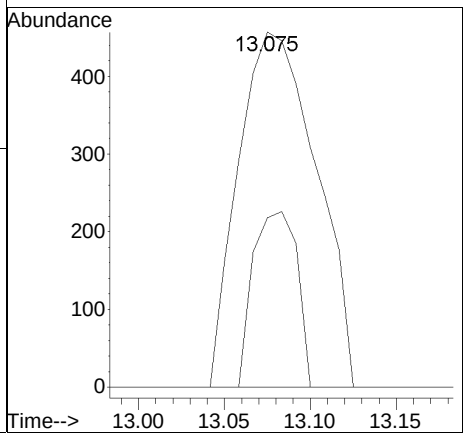


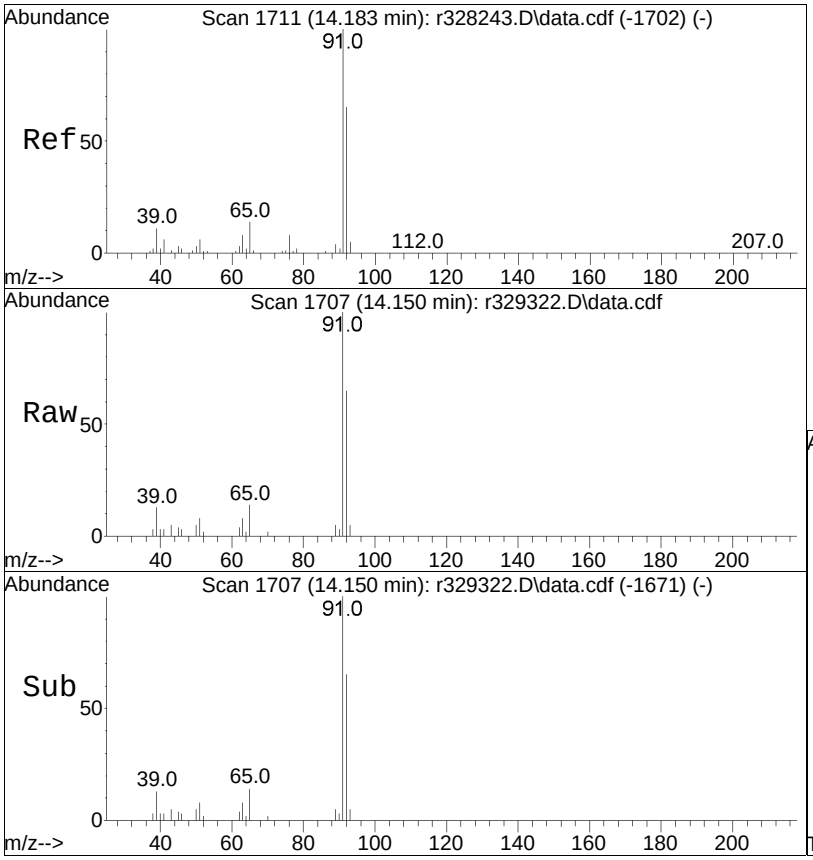


#64
4-methyl-2-pentanone
Concen: 0.04 ppbV
RT: 13.075 min Scan# 1578
Delta R.T. 0.000 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 43 Resp: 1441

Ion	Ratio	Lower	Upper
43	100		
58	47.7	35.4	53.2
100	0.0	13.8	20.8#

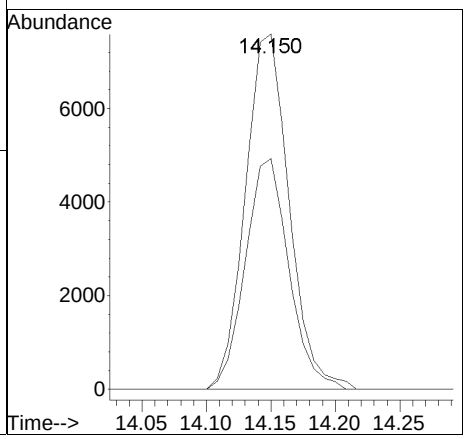


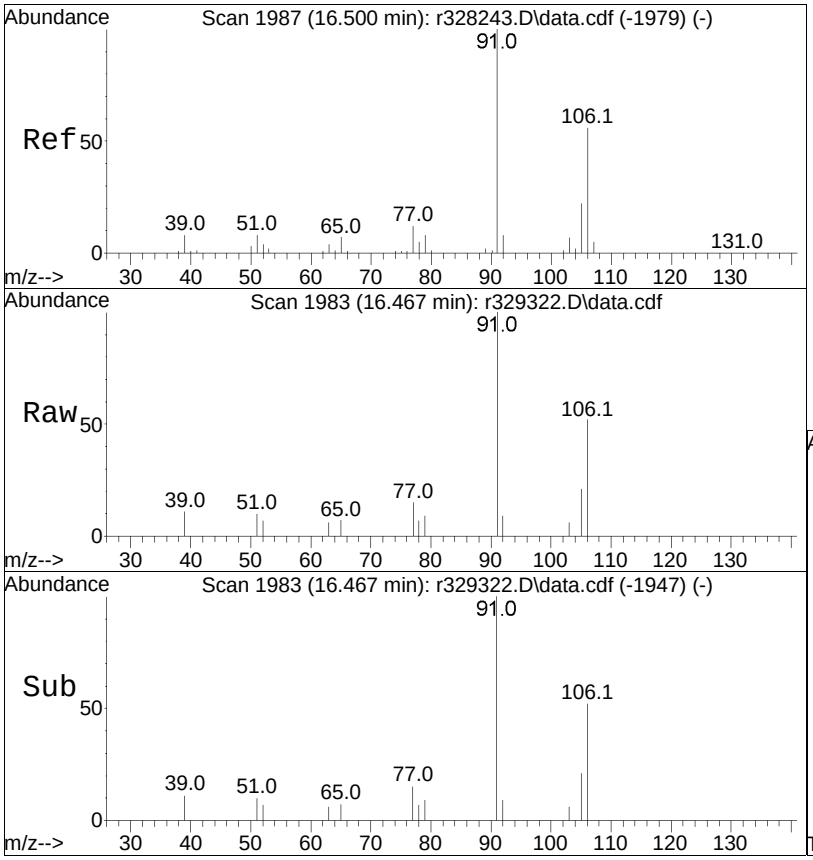


#68
toluene
Concen: 0.21 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 91 Resp: 17938

Ion	Ratio	Lower	Upper
91	100		
92	65.0	52.1	78.1

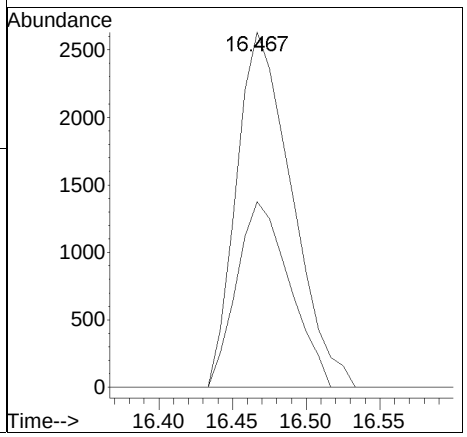


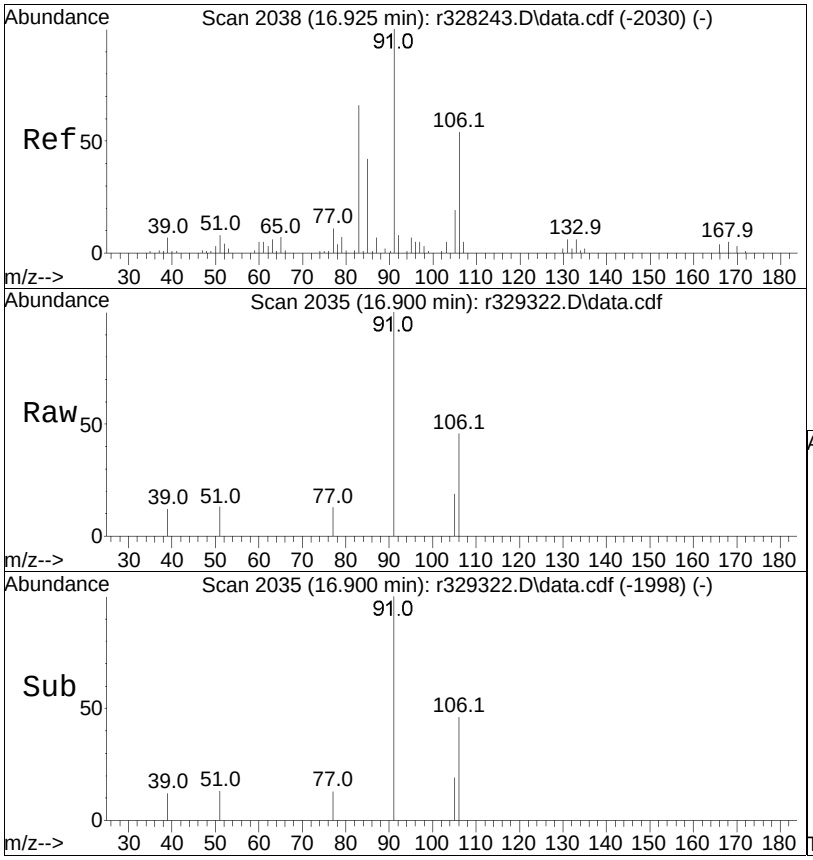


#83
m+p-xylene
Concen: 0.08 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 91 Resp: 6871

Ion	Ratio	Lower	Upper
91	100		
106	52.2	44.8	67.2

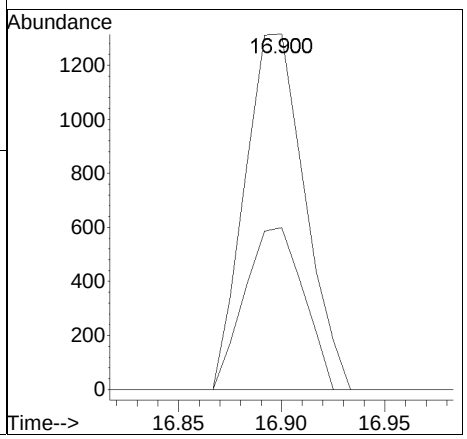




#87
o-xylene
Concen: 0.03 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329322.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 91 Resp: 2655

Ion	Ratio	Lower	Upper
91	100		
106	45.6	43.0	64.6

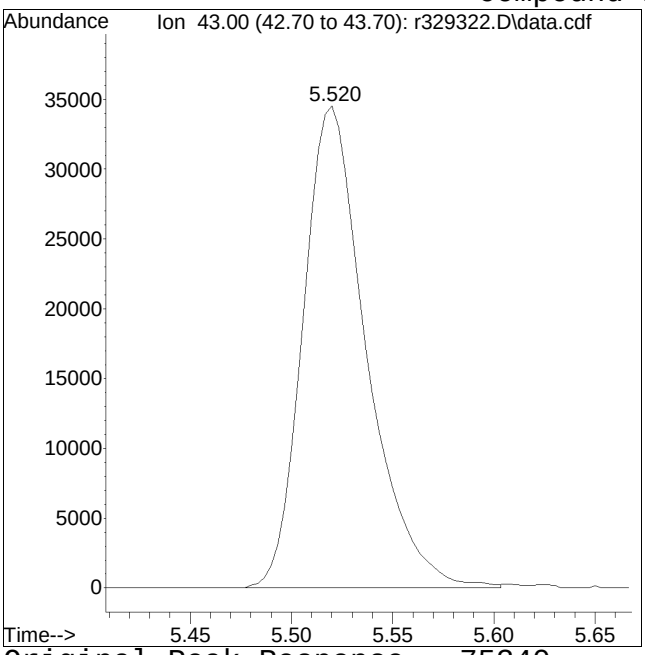


Manual Integration Report

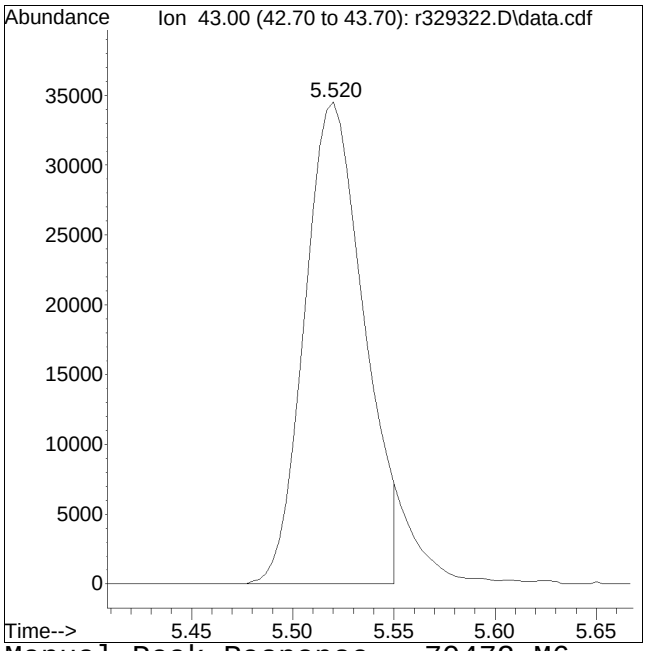
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329322.D
Date Inj'd : 2/25/2020 0:9: 0
Sample : L2409224-04,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:09 am

Compound #19: acetone



Original Peak Response = 75340



Manual Peak Response = 70472 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329323.D
Acq On : 25 Feb 2024 10:31 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-05,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	236878	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		84.53%	
43) 1,4-difluorobenzene	11.180	114	613494	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		79.85%	
67) chlorobenzene-D5	15.917	54	119742	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		83.66%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15673	0.568	ppbV	100
6) chloromethane	4.044	50	8054	0.592	ppbV	96
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.410	54	488	0.038	ppbV	100
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.004	31	160778	17.035	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.523	43	57191M6	2.265	ppbV	
21) trichlorofluoromethane	5.703	101	6025	0.210	ppbV	91
22) isopropyl alcohol	5.817	45	33875	1.100	ppbV	98
27) tertiary butyl alcohol	6.514		0	N.D.		
28) methylene chloride	6.538	49	6631	0.360	ppbV	90
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.838		0	N.D.		
31) Freon 113	6.838	101	1678	0.052	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	8.292	43	4456	0.109	ppbV #	97
38) Ethyl Acetate	9.067	61	324	0.046	ppbV #	17
39) chloroform	9.100	83	1356	0.047	ppbV #	87
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.933		0	N.D.		
44) hexane	9.017	57	3299	0.120	ppbV #	21
50) benzene	10.753	78	20960	0.415	ppbV #	90
53) cyclohexane	11.073	56	1440	0.050	ppbV	86
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329323.D
Acq On : 25 Feb 2024 10:31 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-05,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

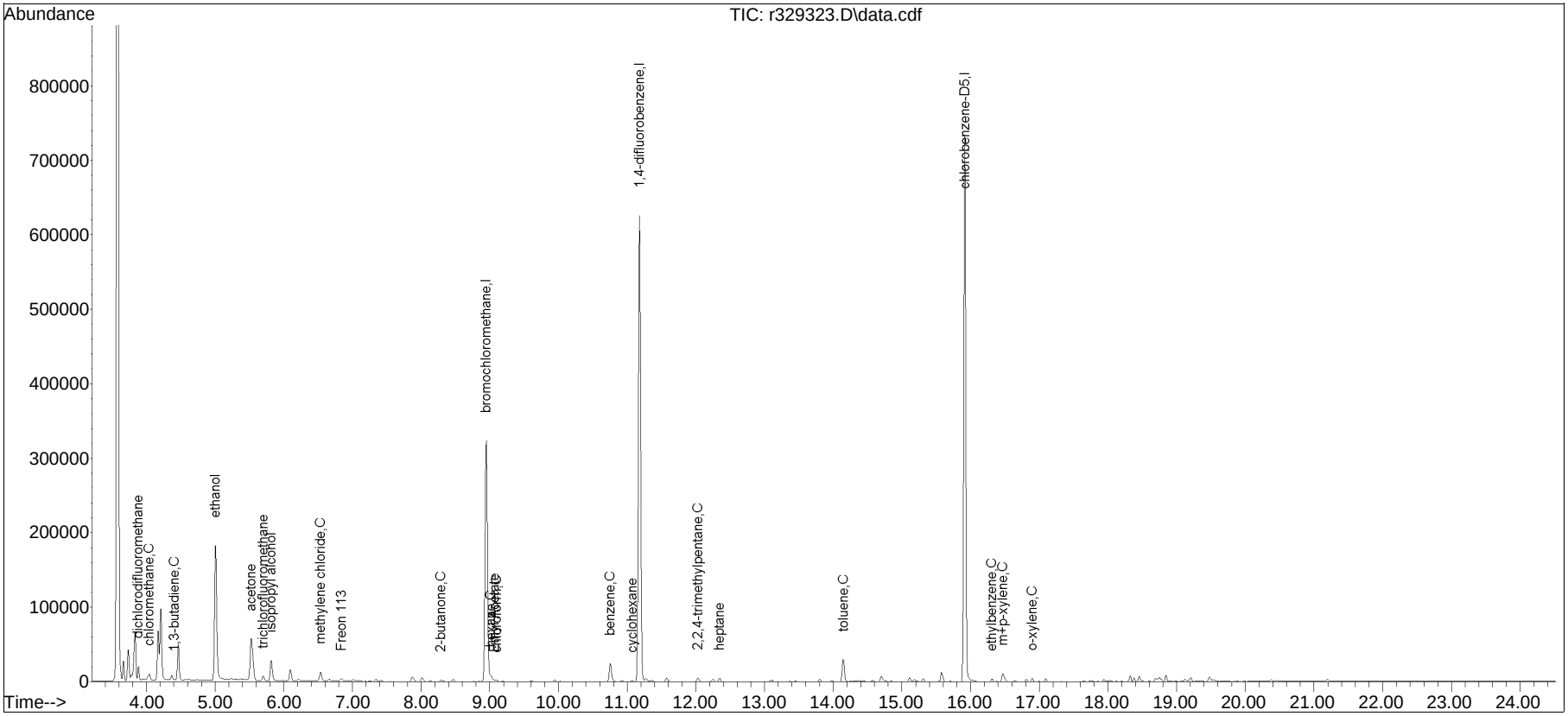
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.		
58)	1,4-dioxane	0.000		0	N.D.		
60)	2,2,4-trimethylpentane	12.033	57	5771	0.062	ppbV #	87
62)	heptane	12.347	43	2290	0.070	ppbV	98
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.083		0	N.D.		
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.150	91	26957	0.326	ppbV	100
72)	2-hexanone	14.367		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	0.000		0	N.D.		
81)	ethylbenzene	16.308	91	4095	0.040	ppbV	98
83)	m+p-xylene	16.467	91	10493	0.128	ppbV	94
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.808		0	N.D.		
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87)	o-xylene	16.900	91	3664	0.045	ppbV	96
96)	4-ethyl toluene	18.033		0	N.D.		
97)	1,3,5-trimethylbenzene	18.033		0	N.D.		
99)	1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101)	Benzyl Chloride	18.375		0	N.D.		
102)	1,3-dichlorobenzene	18.575		0	N.D.		
103)	1,4-dichlorobenzene	18.575		0	N.D.		
107)	1,2-dichlorobenzene	18.858		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

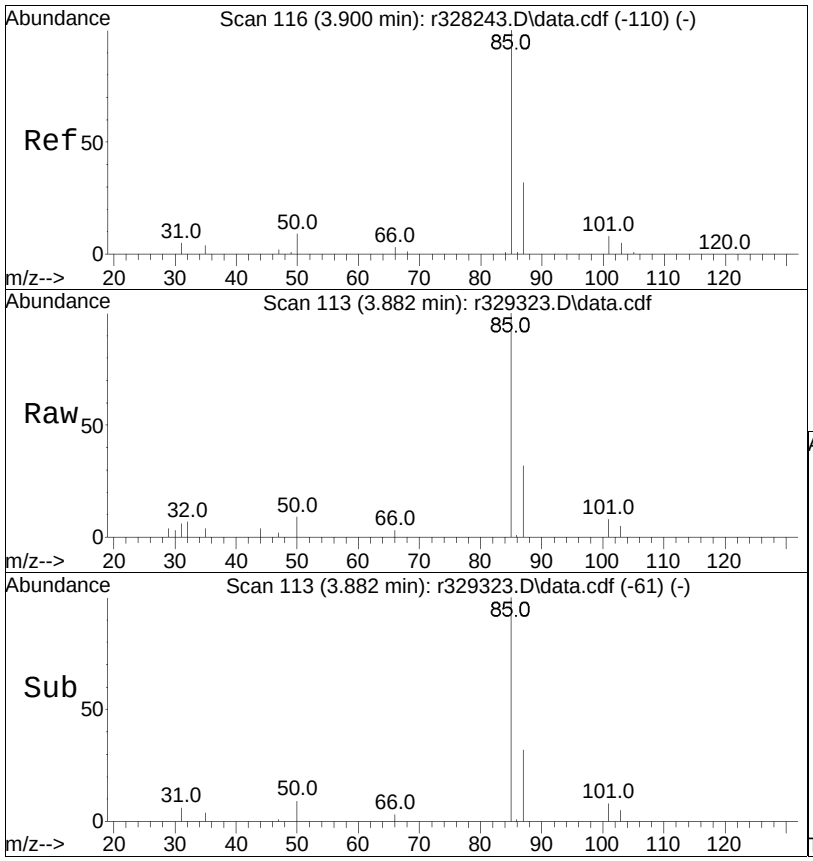
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329323.D
Acq On : 25 Feb 2024 10:31 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-05,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:09:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

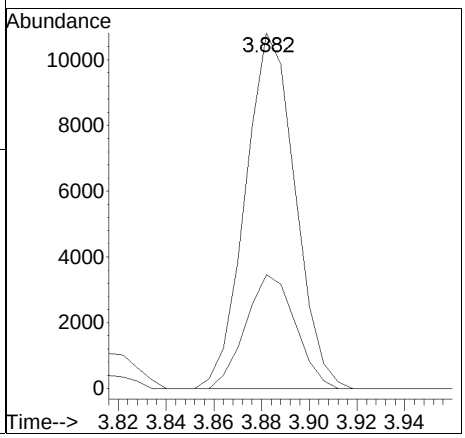


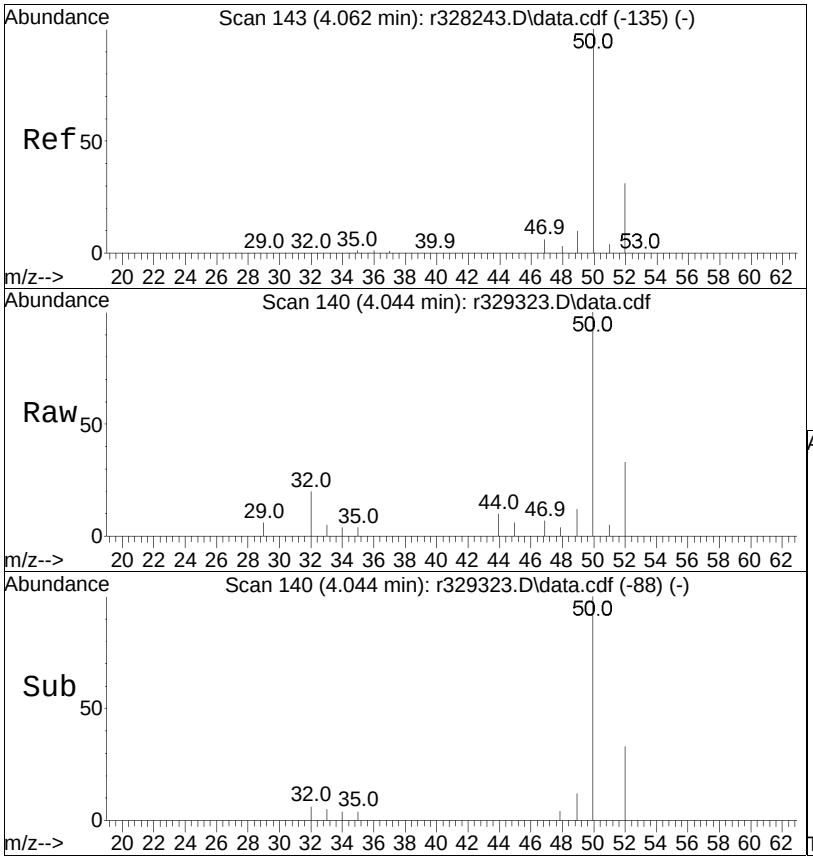


#5
dichlorodifluoromethane
Concen: 0.57 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 85 Resp: 15673

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.7	38.5

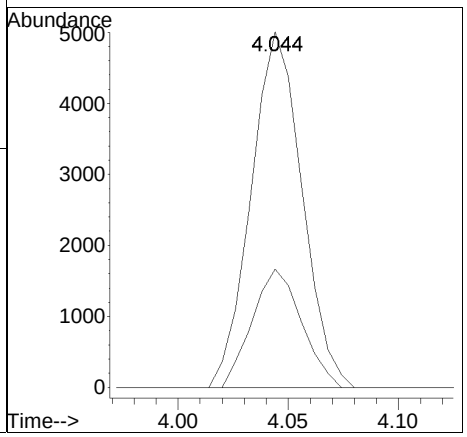


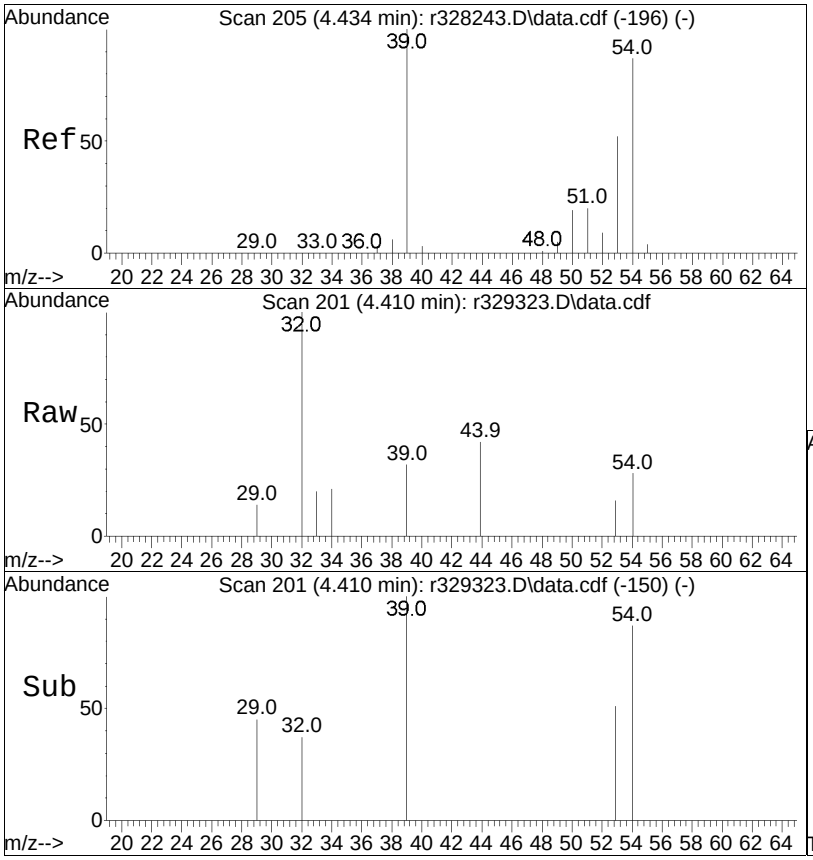


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 50 Resp: 8054

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.6

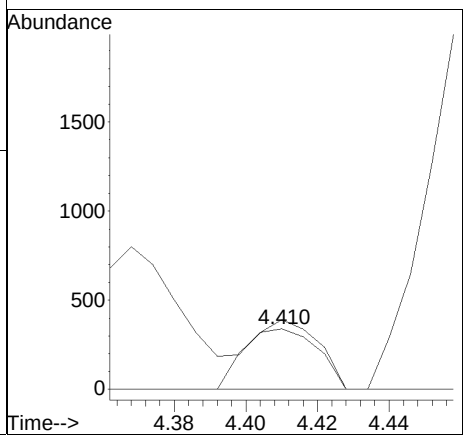


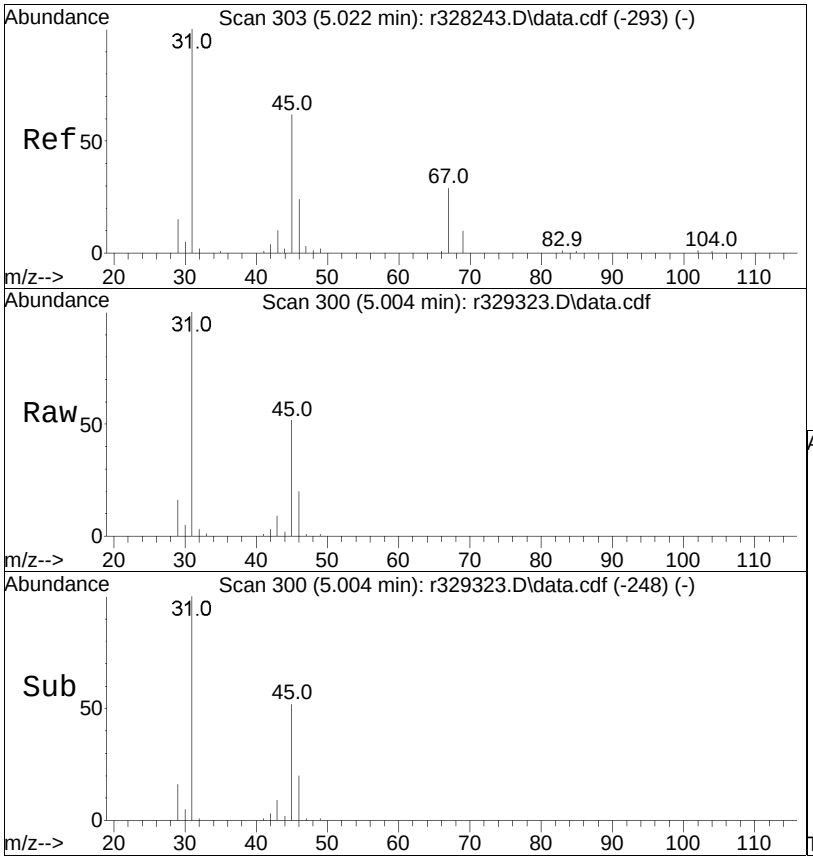


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 54 Resp: 488

Ion	Ratio	Lower	Upper
54	100		
39	115.0	92.3	138.5

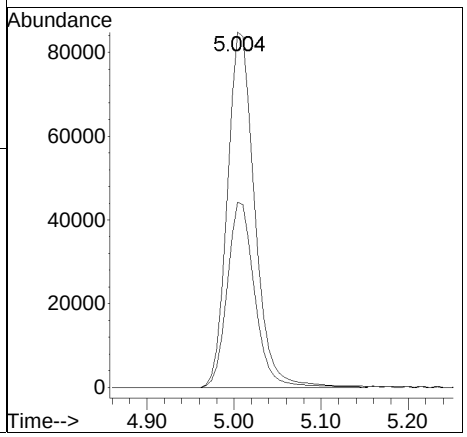


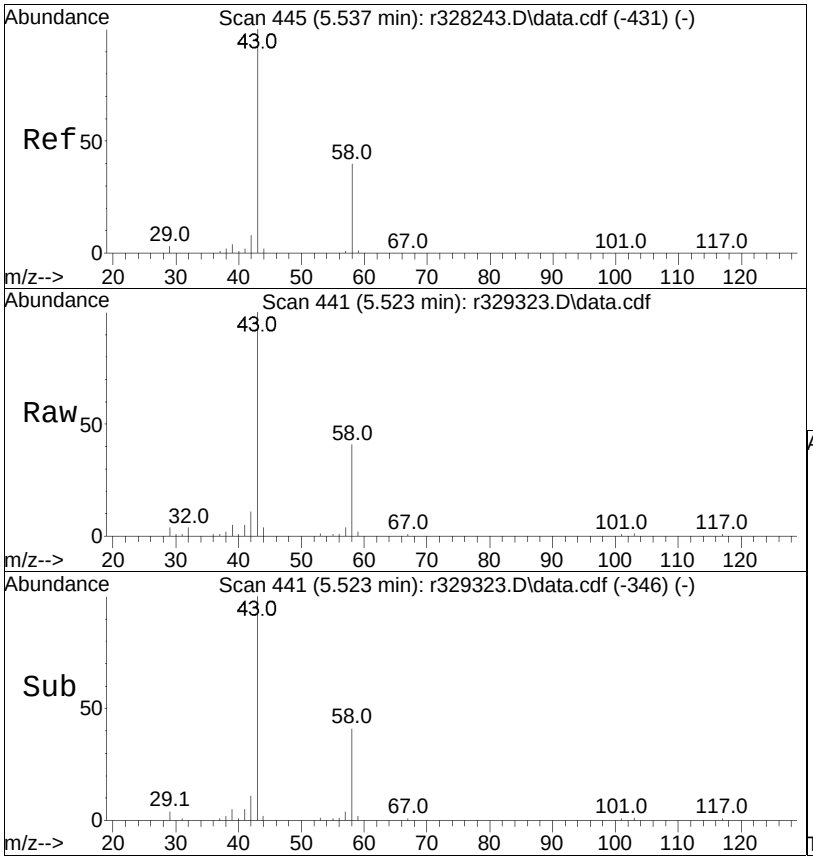


#15
ethanol
Concen: 17.04 ppbV
RT: 5.004 min Scan# 300
Delta R.T. -0.018 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 31 Resp: 160778

Ion	Ratio	Lower	Upper
31	100		
45	52.1	49.8	74.6

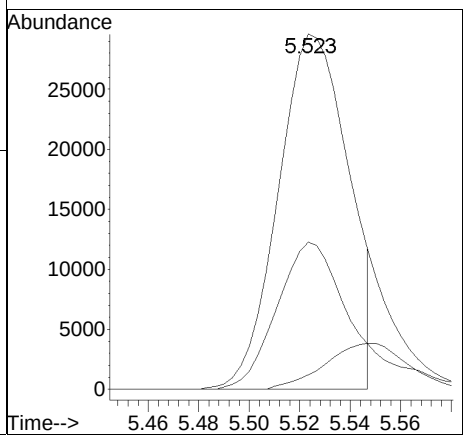


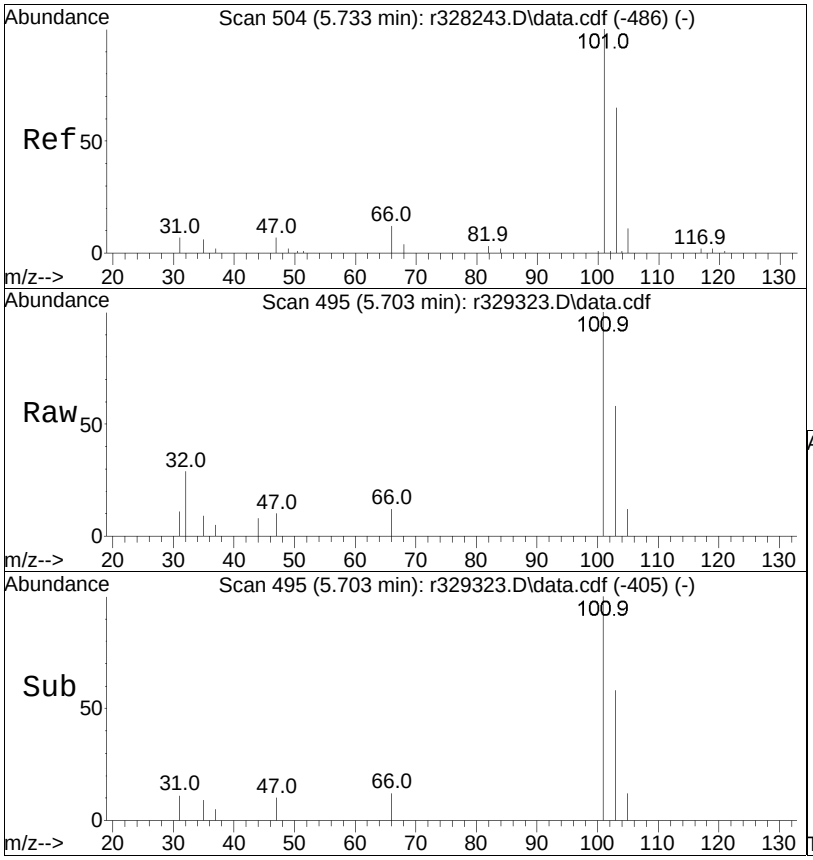


#19
acetone
Concen: 2.26 ppbV m
RT: 5.523 min Scan# 441
Delta R.T. -0.013 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 43 Resp: 57191

Ion	Ratio	Lower	Upper
43	100		
58	41.5	31.9	47.9
57	4.1	0.9	1.3#

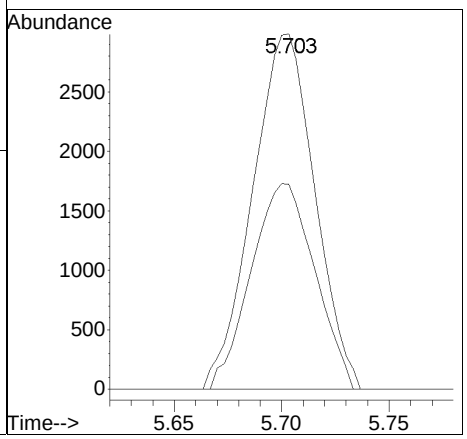


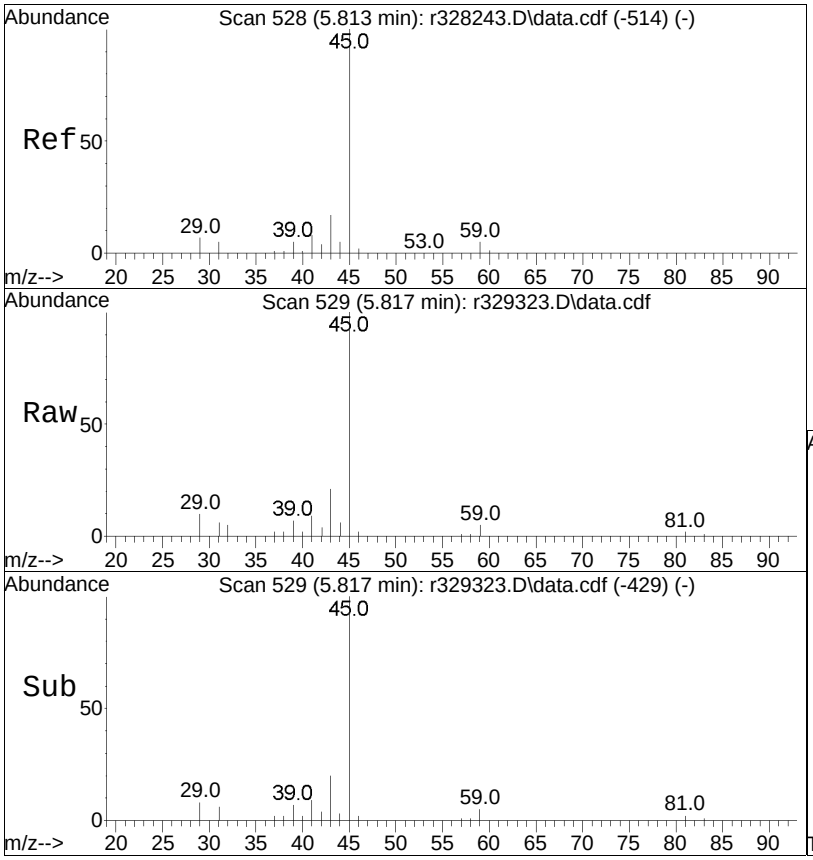


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.703 min Scan# 495
Delta R.T. -0.030 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion:101 Resp: 6025

Ion	Ratio	Lower	Upper
101	100		
103	57.7	51.7	77.5

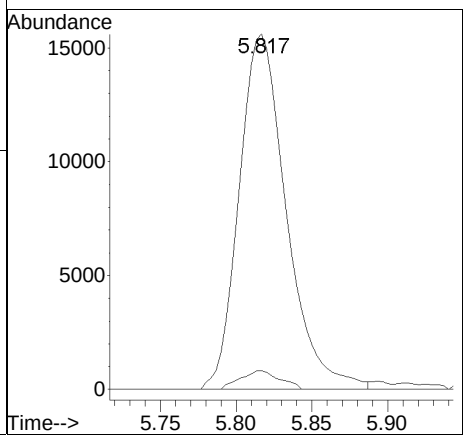


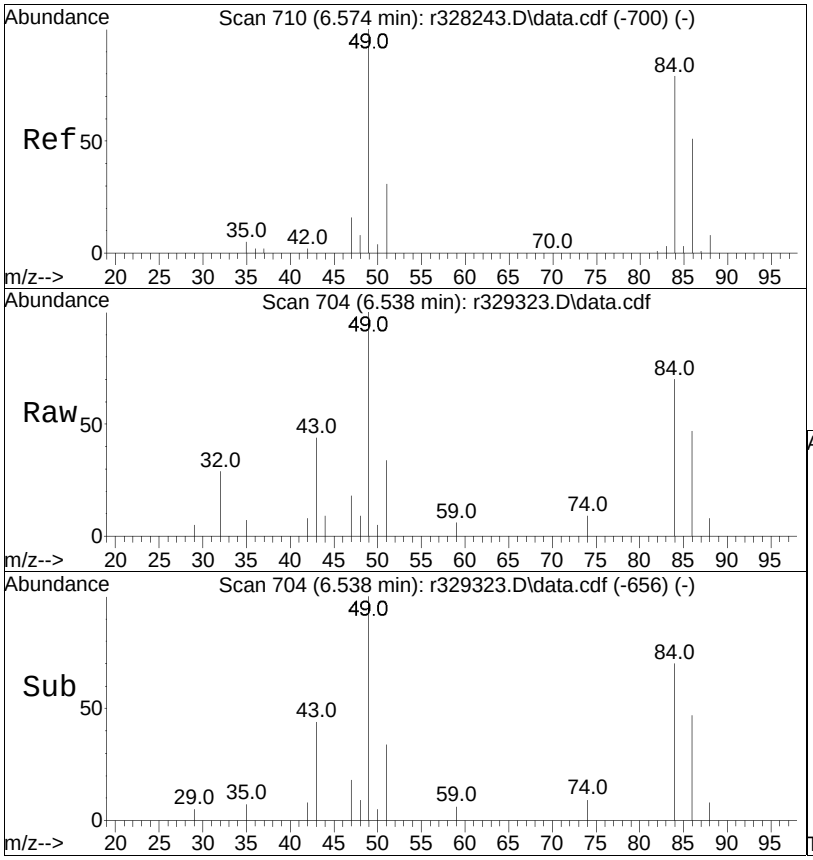


#22
isopropyl alcohol
Concen: 1.10 ppbV
RT: 5.817 min Scan# 529
Delta R.T. 0.003 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 45 Resp: 33875

Ion	Ratio	Lower	Upper
45	100		
59	5.3	3.7	5.5

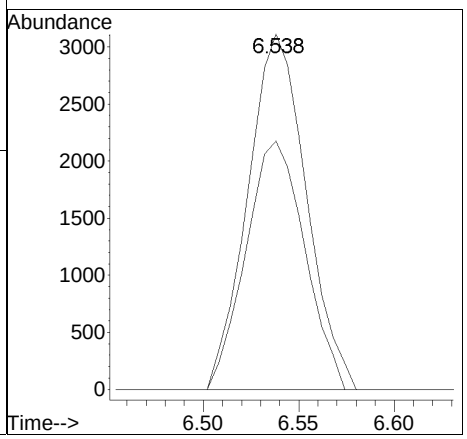


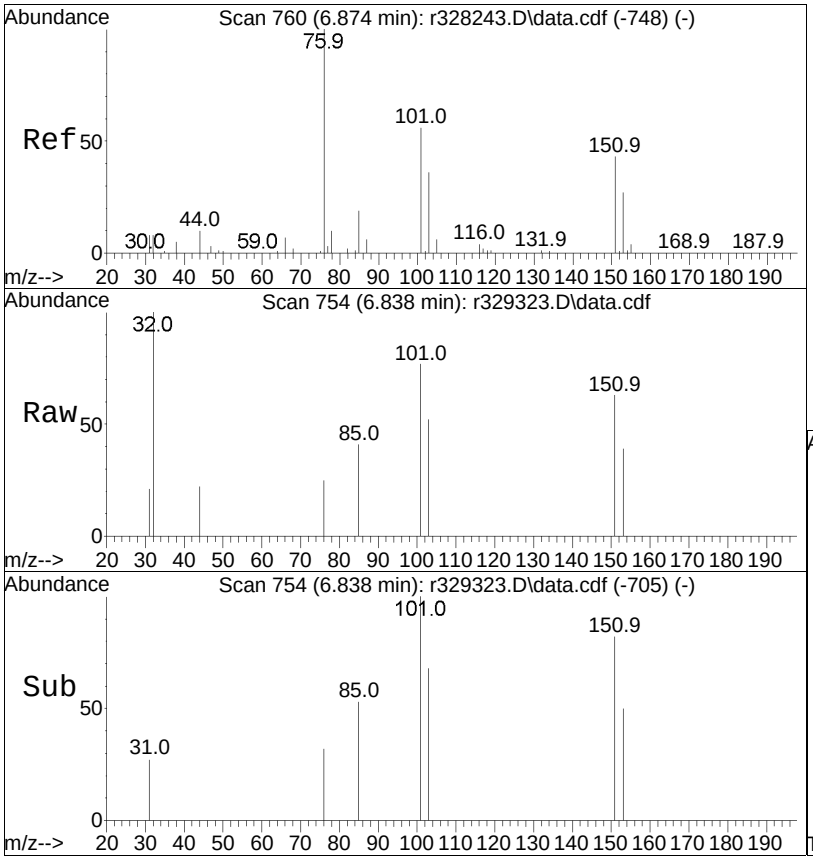


#28
methylene chloride
Concen: 0.36 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 49 Resp: 6631

Ion	Ratio	Lower	Upper
49	100		
84	69.9	63.3	94.9

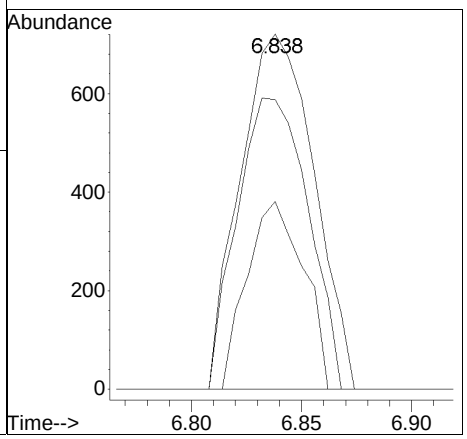


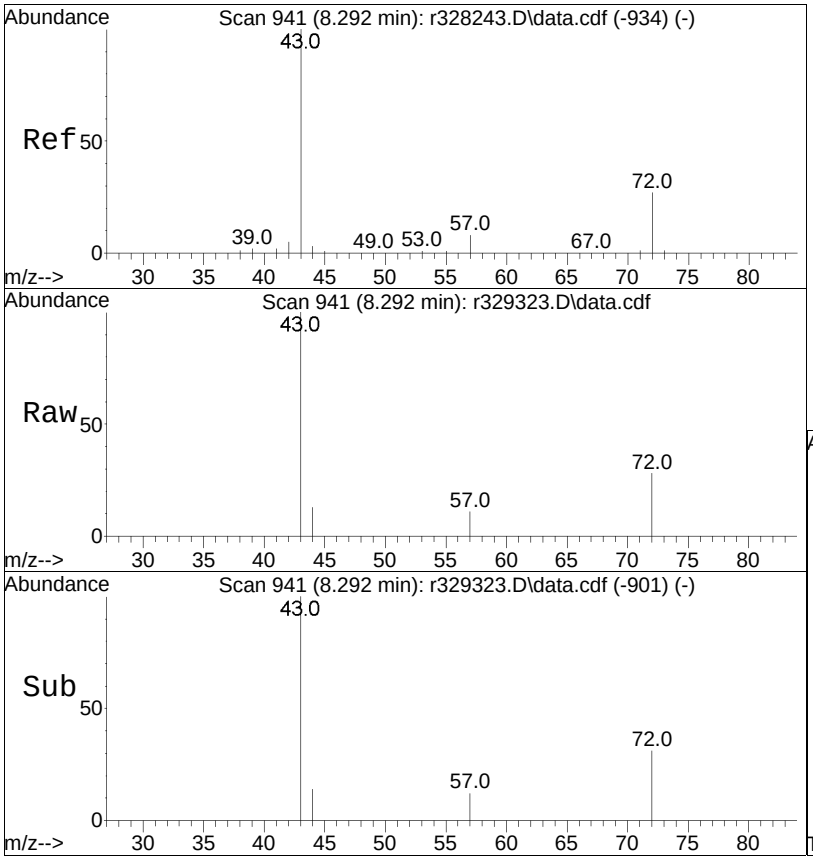


#31
Freon 113
Concen: 0.05 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion:101 Resp: 1678

Ion	Ratio	Lower	Upper
101	100		
85	52.8	27.9	41.9#
151	81.6	61.0	91.4

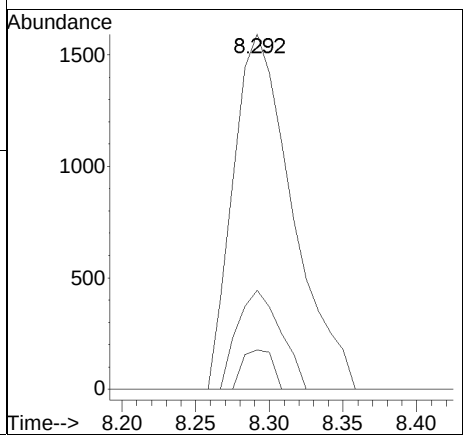


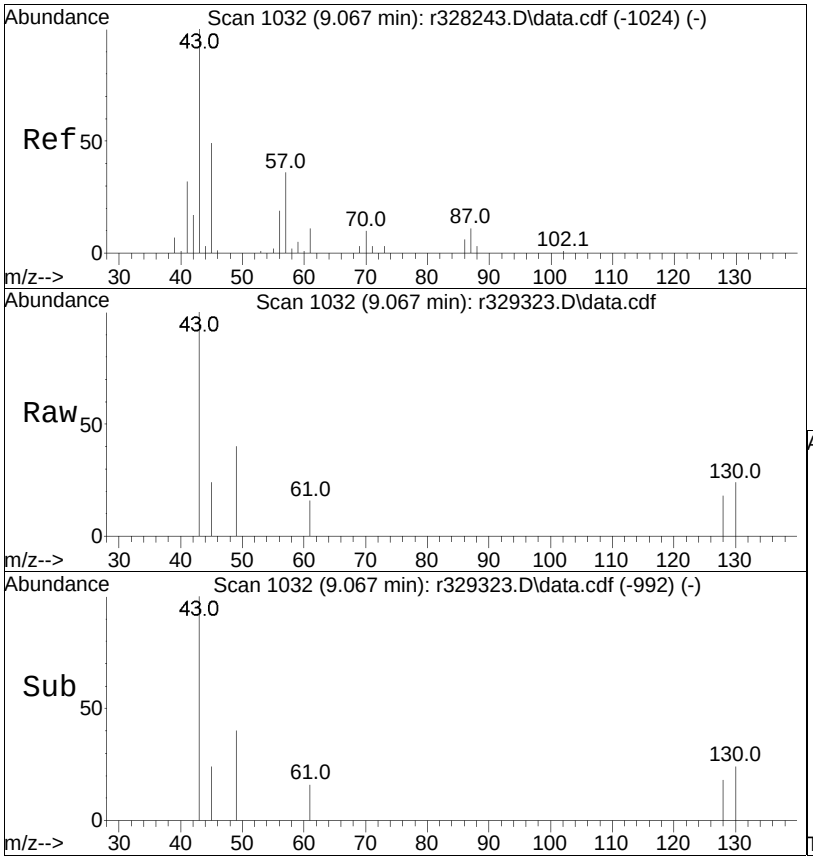


#36
2-butanone
Concen: 0.11 ppbV
RT: 8.292 min Scan# 941
Delta R.T. 0.000 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 43 Resp: 4456

Ion	Ratio	Lower	Upper
43	100		
72	27.9	21.9	32.9
57	11.1	6.6	9.8#

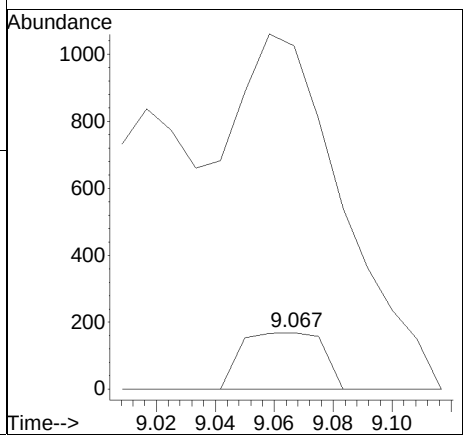


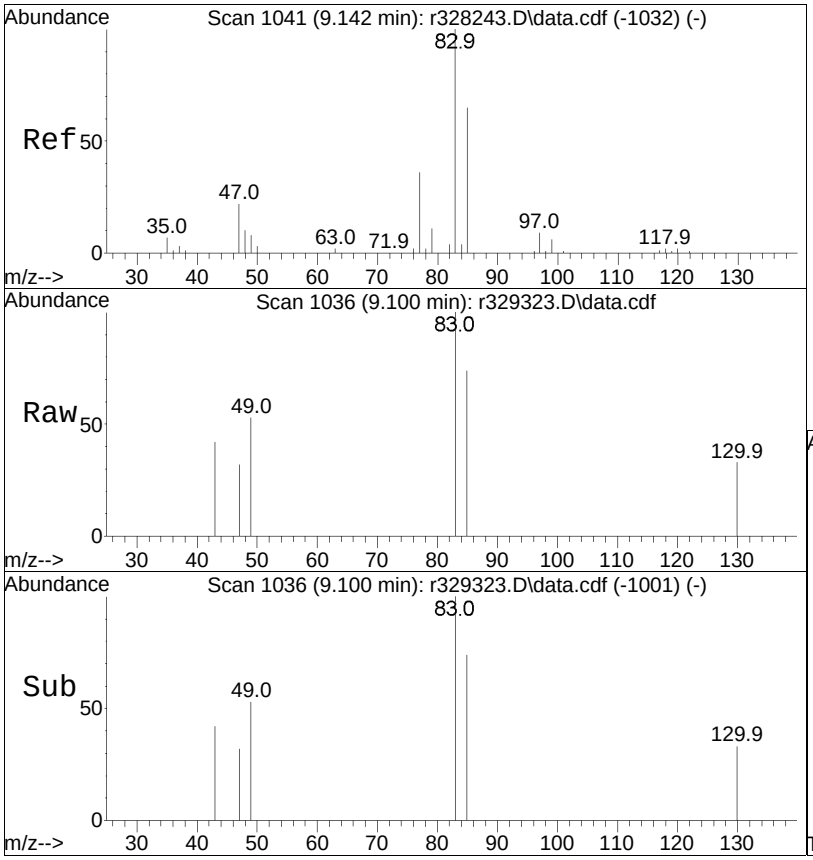


#38
Ethyl Acetate
Concen: 0.05 ppbV
RT: 9.067 min Scan# 1032
Delta R.T. 0.000 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 61 Resp: 324

Ion	Ratio	Lower	Upper
61	100		
70	0.0	77.5	116.3#
43	606.5	765.5	1148.3#

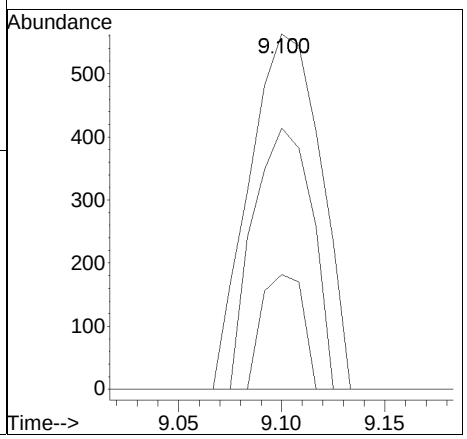


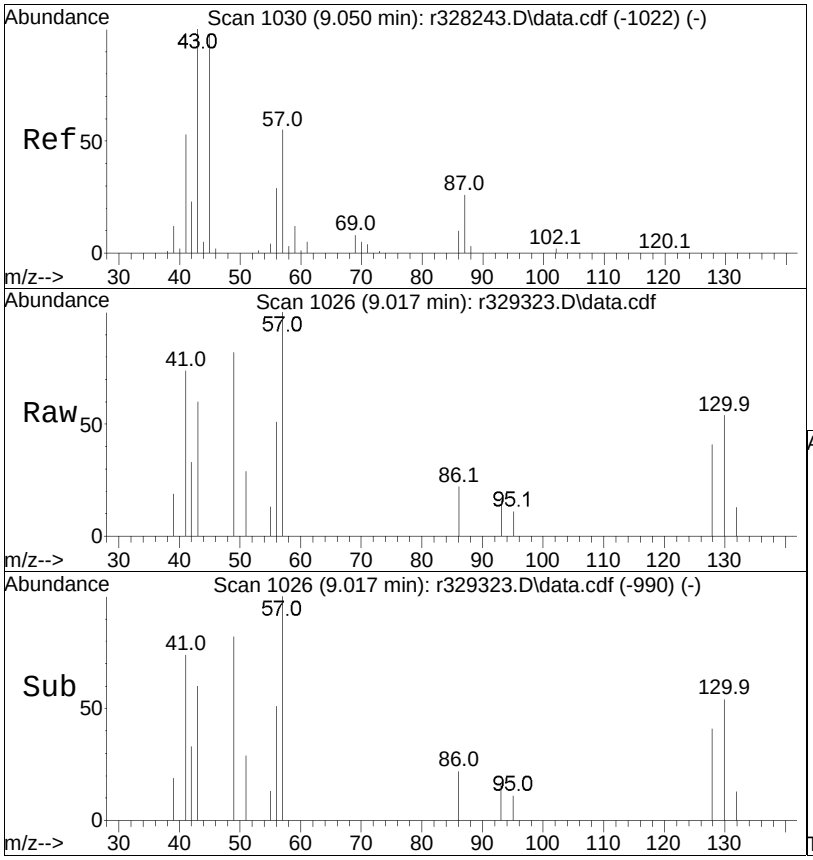


#39
chloroform
Concen: 0.05 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 83 Resp: 1356

Ion	Ratio	Lower	Upper
83	100		
85	73.5	52.2	78.4
47	32.3	17.4	26.2#

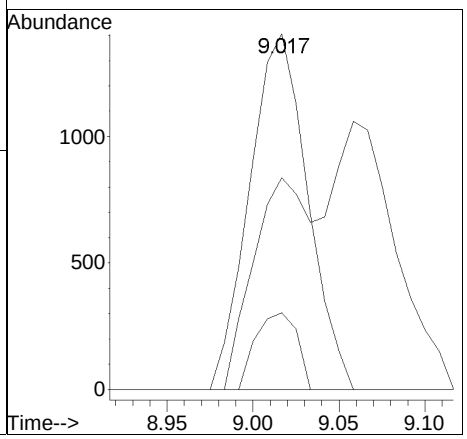


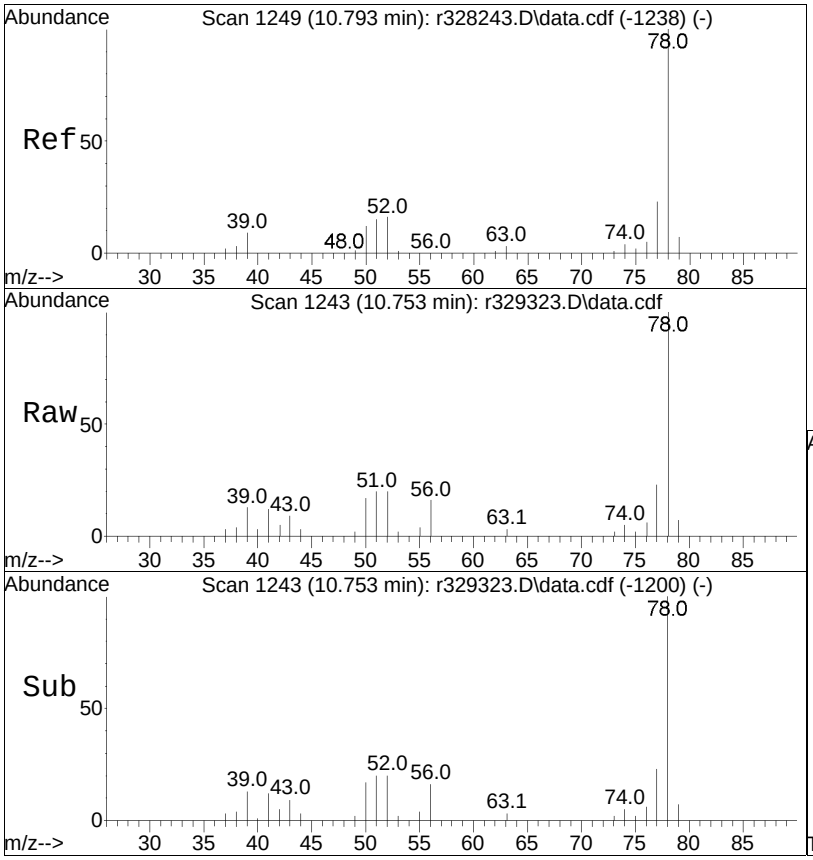


#44
hexane
Concen: 0.12 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 57 Resp: 3299

Ion	Ratio	Lower	Upper
57	100		
43	59.6	145.3	217.9#
86	21.6	14.3	21.5#

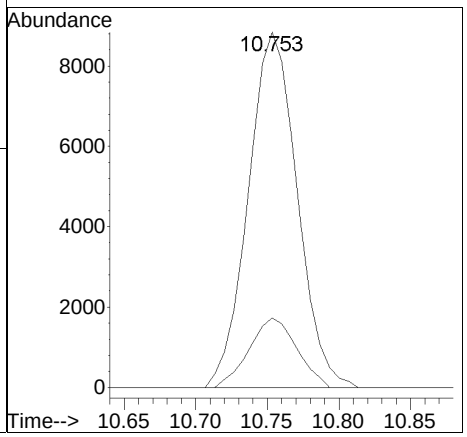


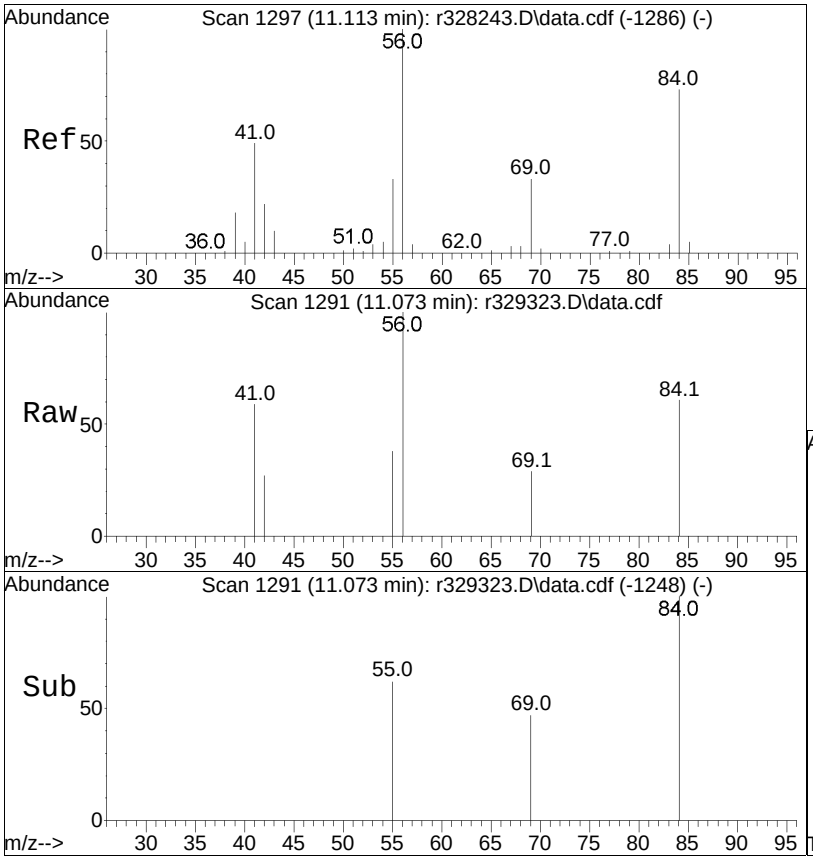


#50
benzene
Concen: 0.42 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 78 Resp: 20960

Ion	Ratio	Lower	Upper
78	100		
52	19.6	12.4	18.6#

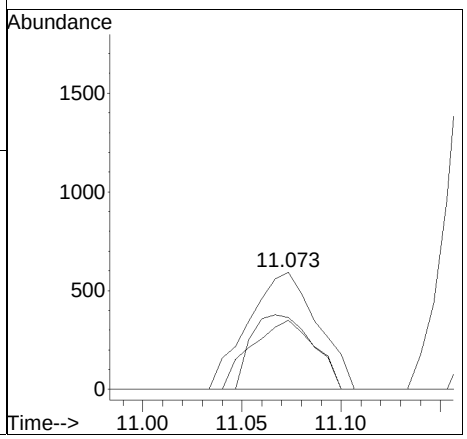


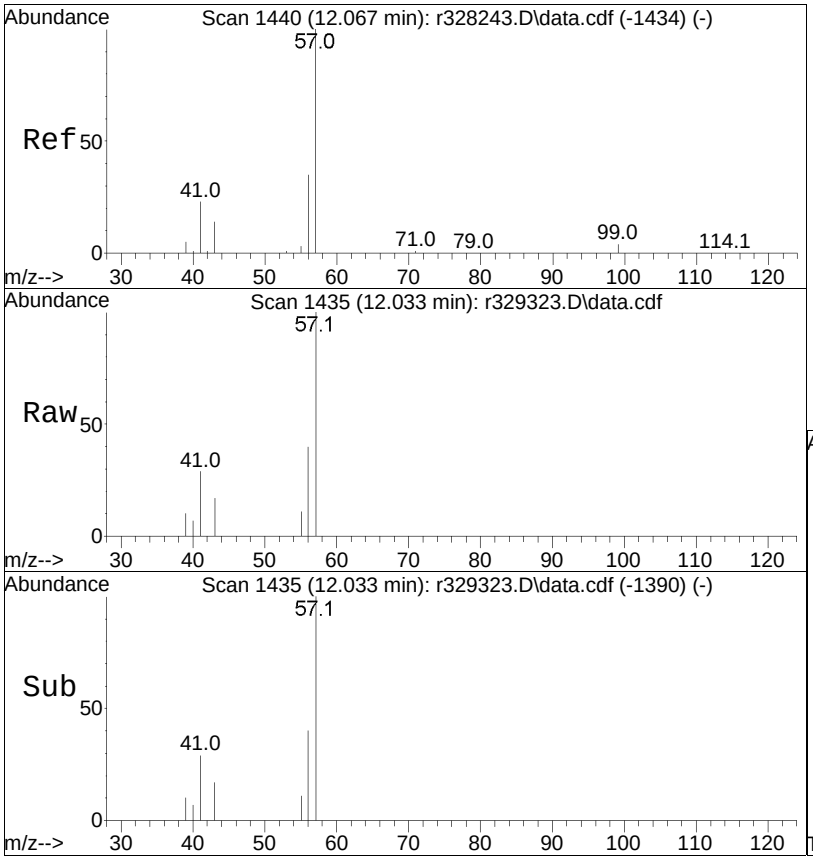


#53
cyclohexane
Concen: 0.05 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 56 Resp: 1440

Ion	Ratio	Lower	Upper
56	100		
84	61.4	58.7	88.1
41	59.0	39.6	59.4

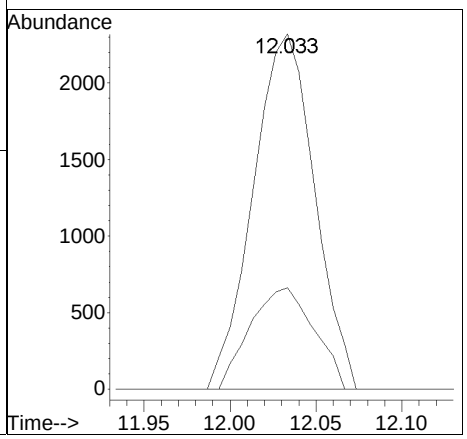


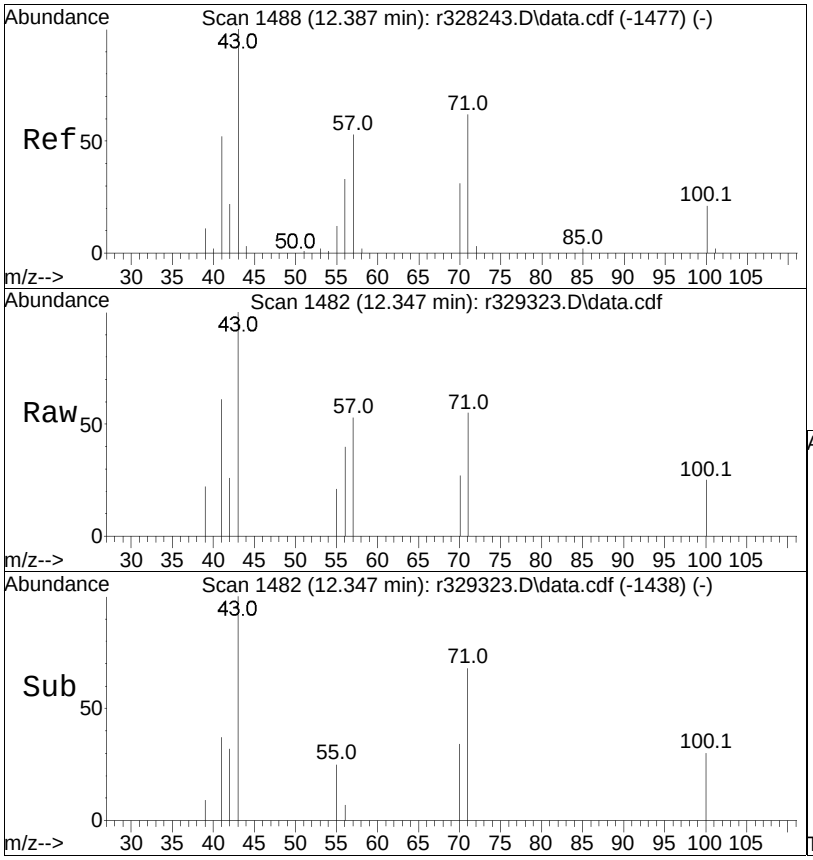


#60
2,2,4-trimethylpentane
Concen: 0.06 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 57 Resp: 5771

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	28.6	18.2	27.4#

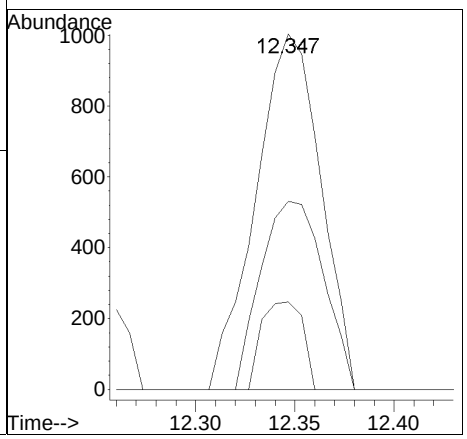


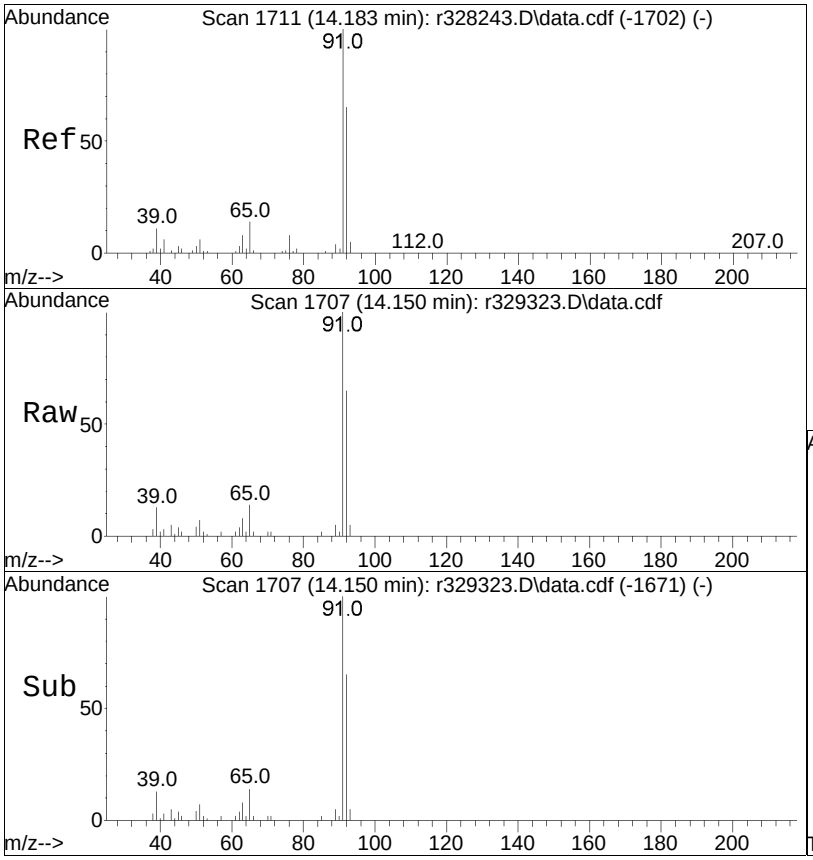


#62
heptane
Concen: 0.07 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 43 Resp: 2290

Ion	Ratio	Lower	Upper
43	100		
57	52.9	42.6	64.0
100	24.6	17.0	25.4

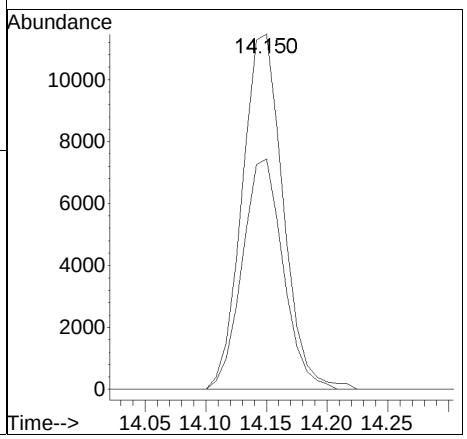


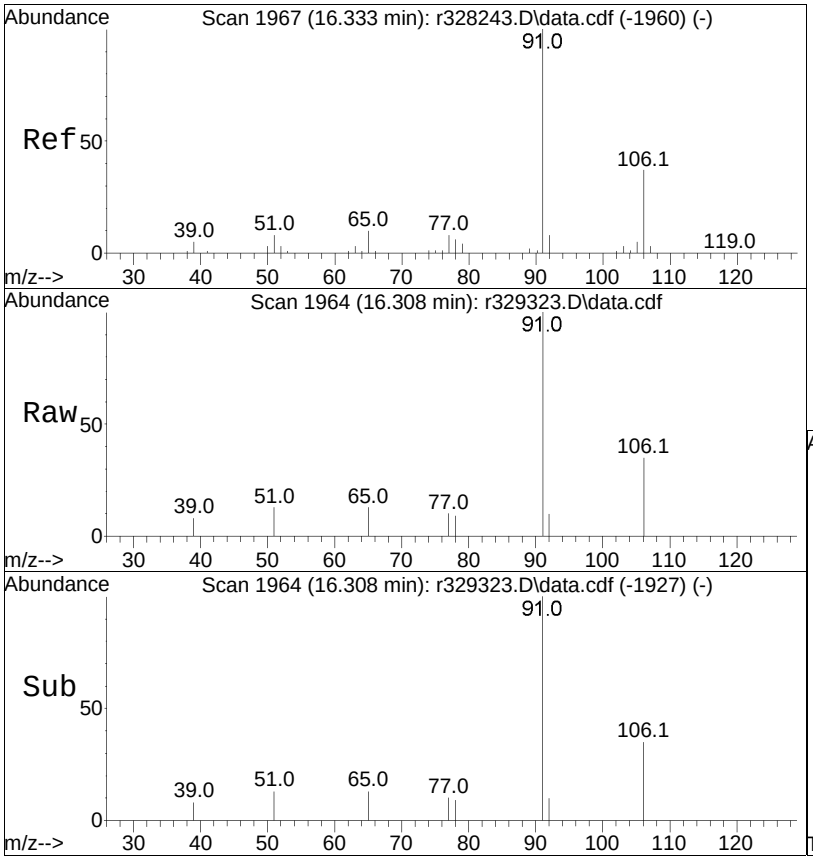


#68
toluene
Concen: 0.33 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 91 Resp: 26957

Ion	Ratio	Lower	Upper
91	100		
92	64.8	52.1	78.1

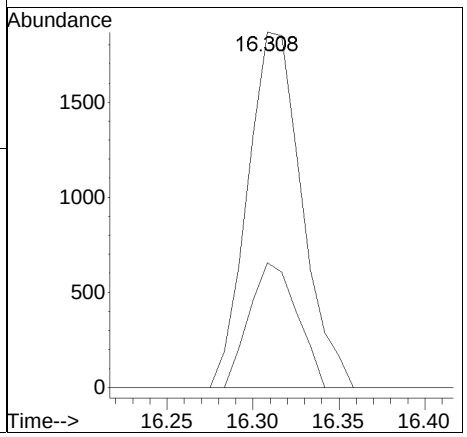


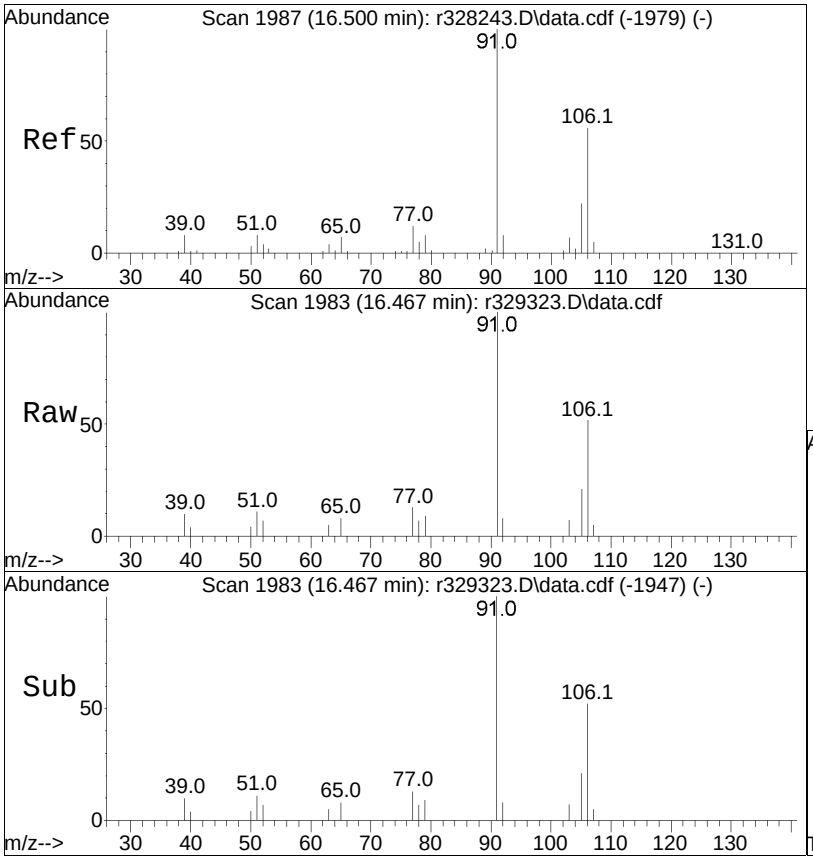


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 91 Resp: 4095

Ion	Ratio	Lower	Upper
91	100		
106	35.1	29.2	43.8

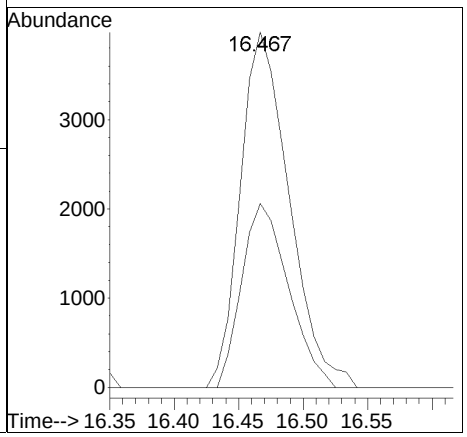


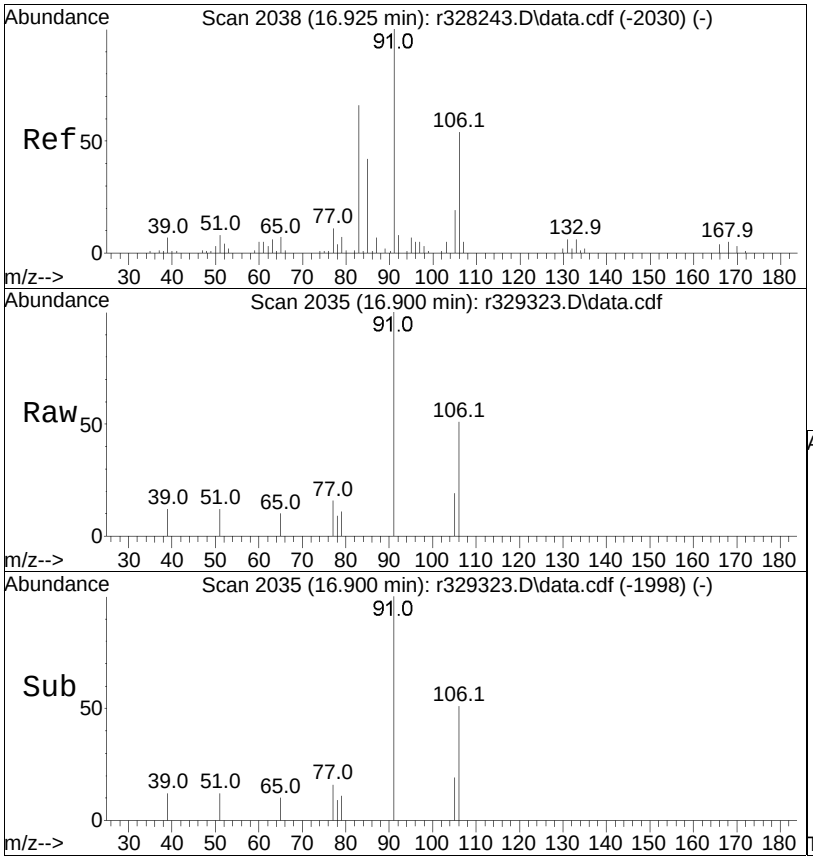


#83
m+p-xylene
Concen: 0.13 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 91 Resp: 10493

Ion	Ratio	Lower	Upper
91	100		
106	51.7	44.8	67.2

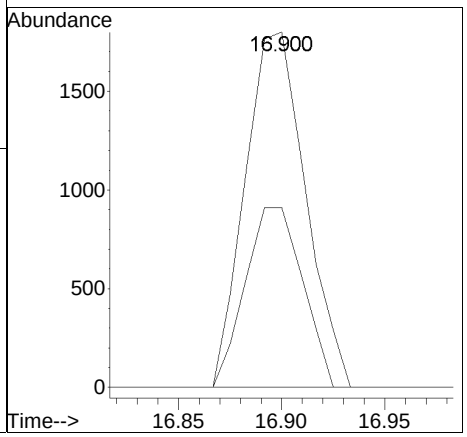




#87
o-xylene
Concen: 0.05 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329323.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 91 Resp: 3664

Ion	Ratio	Lower	Upper
91	100		
106	50.6	43.0	64.6

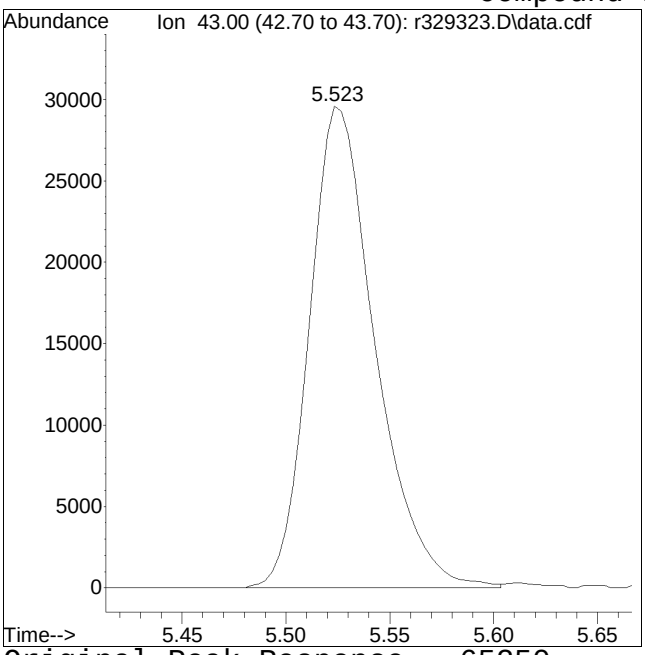


Manual Integration Report

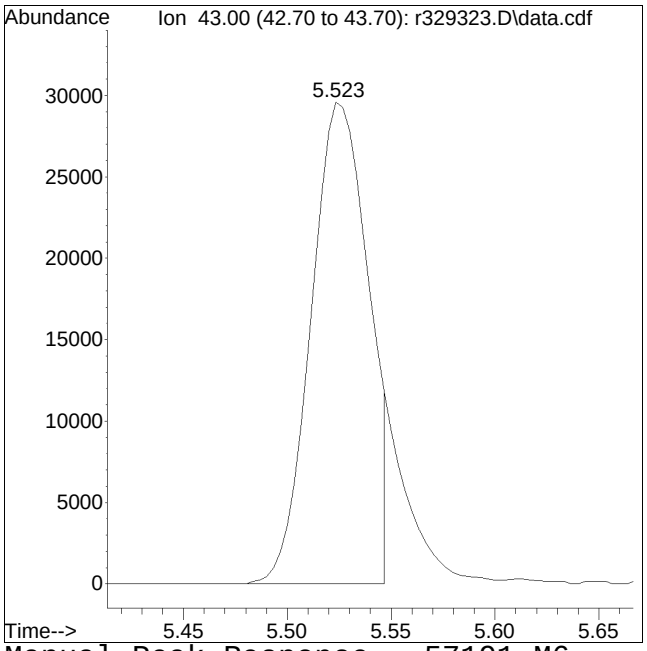
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329323.D
Date Inj'd : 2/25/2020 0:0: 1
Sample : L2409224-05,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:09 am

Compound #19: acetone



Original Peak Response = 65250



Manual Peak Response = 57191 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329325.D
Acq On : 25 Feb 2024 11:53 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-06,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:18 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	232651	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		83.03%	
43) 1,4-difluorobenzene	11.180	114	606655	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		78.96%	
67) chlorobenzene-D5	15.917	54	117846	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		82.34%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15171	0.560	ppbV	100
6) chloromethane	4.044	50	8006	0.600	ppbV	96
7) Freon-114	4.146		0	N.D.		
10) 1,3-butadiene	4.410	54	477	0.038	ppbV	91
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.010	31	52263	5.638	ppbV	88
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.530	43	45421M6	1.832	ppbV	
21) trichlorofluoromethane	5.703	101	5913	0.210	ppbV	96
22) isopropyl alcohol	5.817	45	16983	0.561	ppbV	98
27) tertiary butyl alcohol	6.526		0	N.D.		
28) methylene chloride	6.538	49	4723	0.261	ppbV	87
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.838		0	N.D.		
31) Freon 113	6.838	101	1616	0.051	ppbV #	92
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	7.867		0	N.D.		
36) 2-butanone	8.292	43	4789	0.120	ppbV	93
38) Ethyl Acetate	9.067		0	N.D.		
39) chloroform	9.100		0	N.D.		
40) Tetrahydrofuran	9.592	42	2027	0.082	ppbV	96
42) 1,2-dichloroethane	9.933		0	N.D.		
44) hexane	9.017	57	3735	0.137	ppbV #	23
50) benzene	10.753	78	32769	0.657	ppbV #	90
53) cyclohexane	11.067	56	1588	0.055	ppbV	96
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329325.D
Acq On : 25 Feb 2024 11:53 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-06,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:18 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

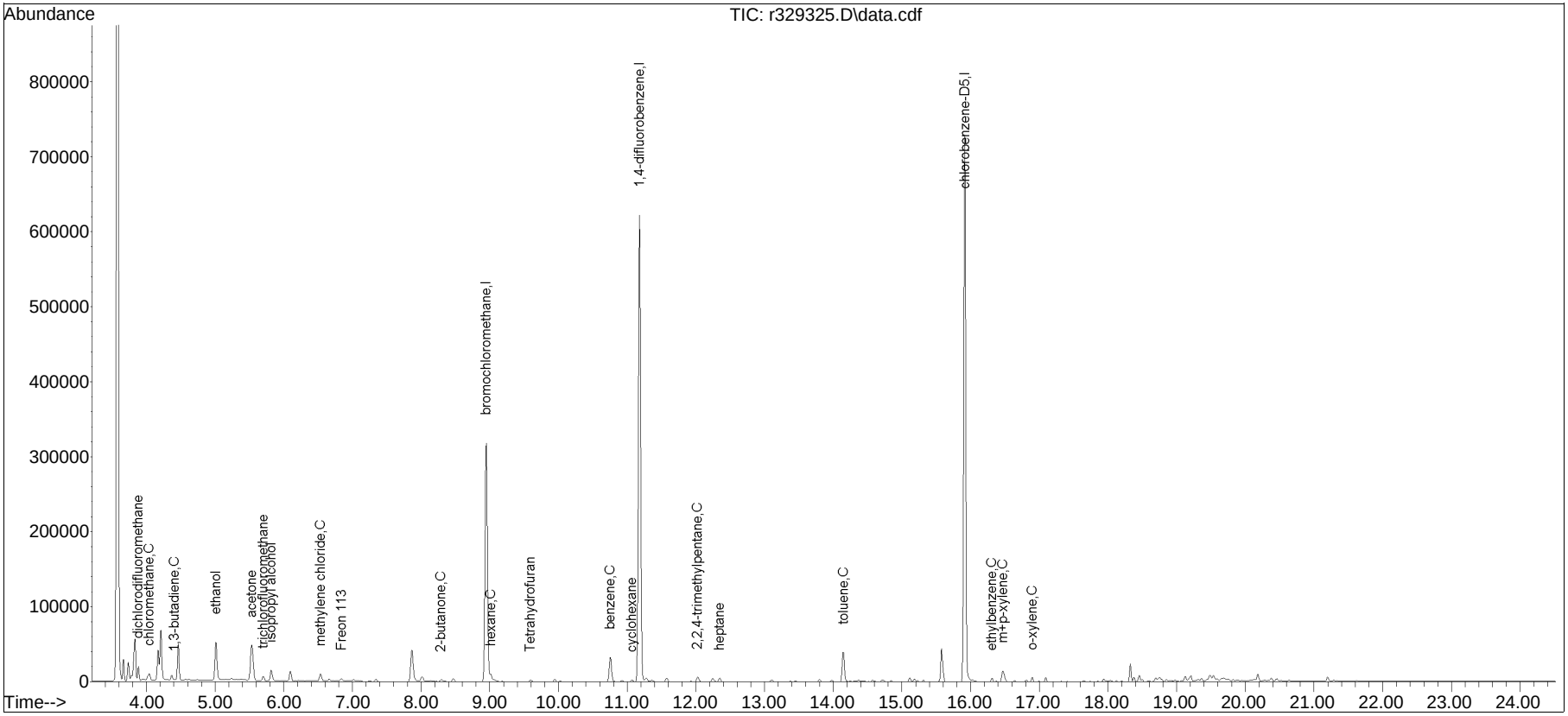
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.		
58)	1,4-dioxane	0.000		0	N.D.		
60)	2,2,4-trimethylpentane	12.027	57	6996	0.077	ppbV #	89
62)	heptane	12.347	43	2586	0.080	ppbV	95
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.083		0	N.D.		
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.150	91	35554	0.437	ppbV	99
72)	2-hexanone	14.367		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	0.000		0	N.D.		
81)	ethylbenzene	16.308	91	4886	0.049	ppbV	98
83)	m+p-xylene	16.467	91	14139	0.175	ppbV	88
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.817		0	N.D.		
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87)	o-xylene	16.900	91	4362	0.055	ppbV	94
96)	4-ethyl toluene	18.033		0	N.D.		
97)	1,3,5-trimethylbenzene	18.033		0	N.D.		
99)	1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101)	Benzyl Chloride	18.375		0	N.D.		
102)	1,3-dichlorobenzene	18.583		0	N.D.		
103)	1,4-dichlorobenzene	18.583		0	N.D.		
107)	1,2-dichlorobenzene	18.858		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

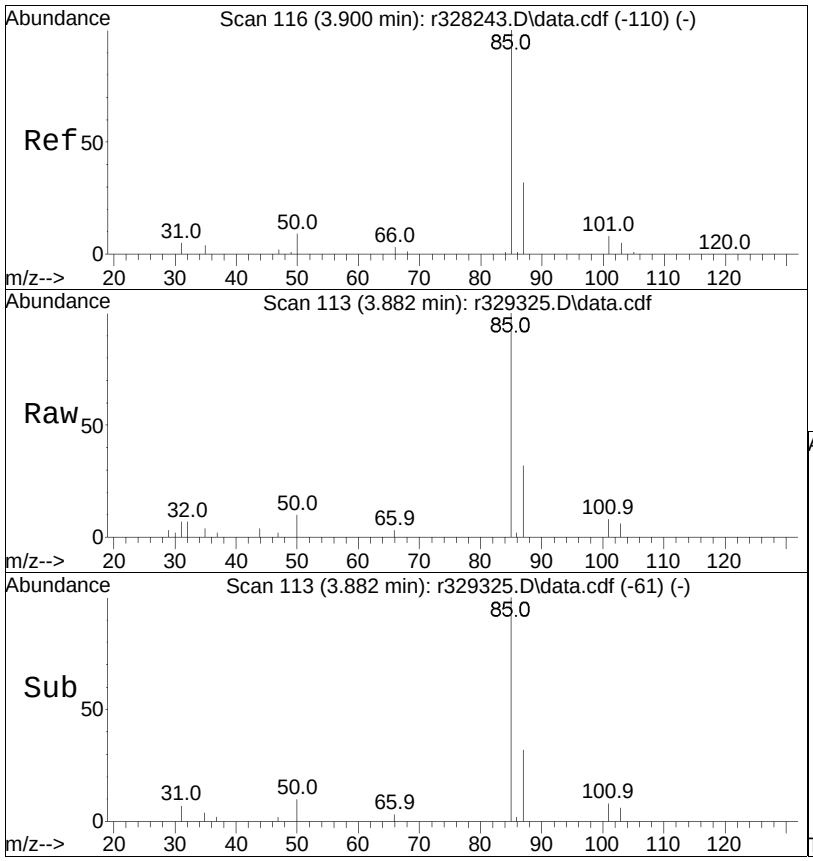
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329325.D
Acq On : 25 Feb 2024 11:53 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-06,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:18 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

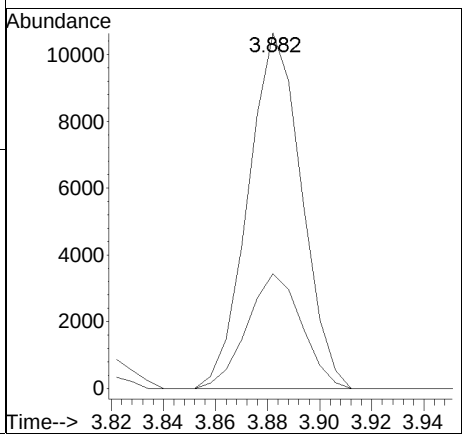


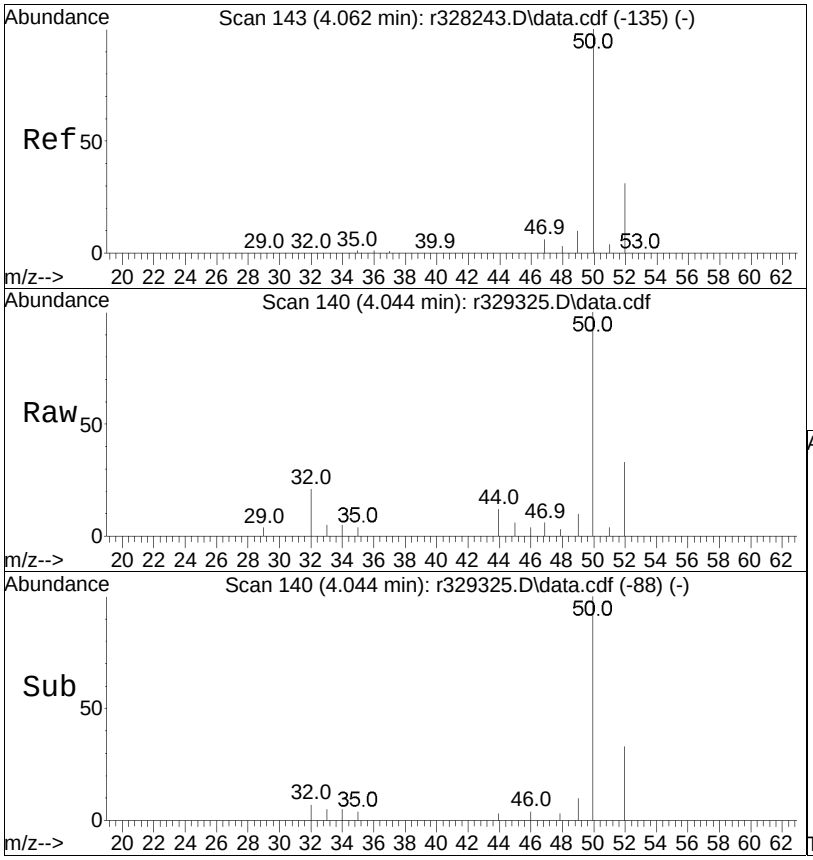


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 85 Resp: 15171

Ion	Ratio	Lower	Upper
85	100		
87	32.3	25.7	38.5

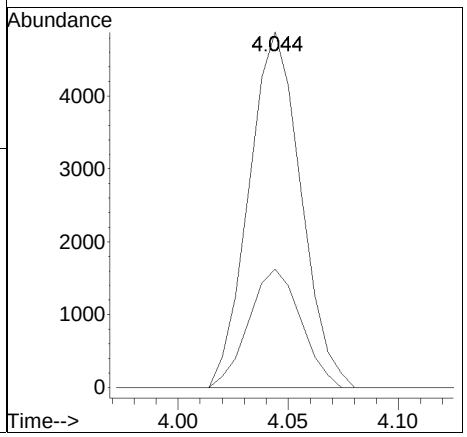


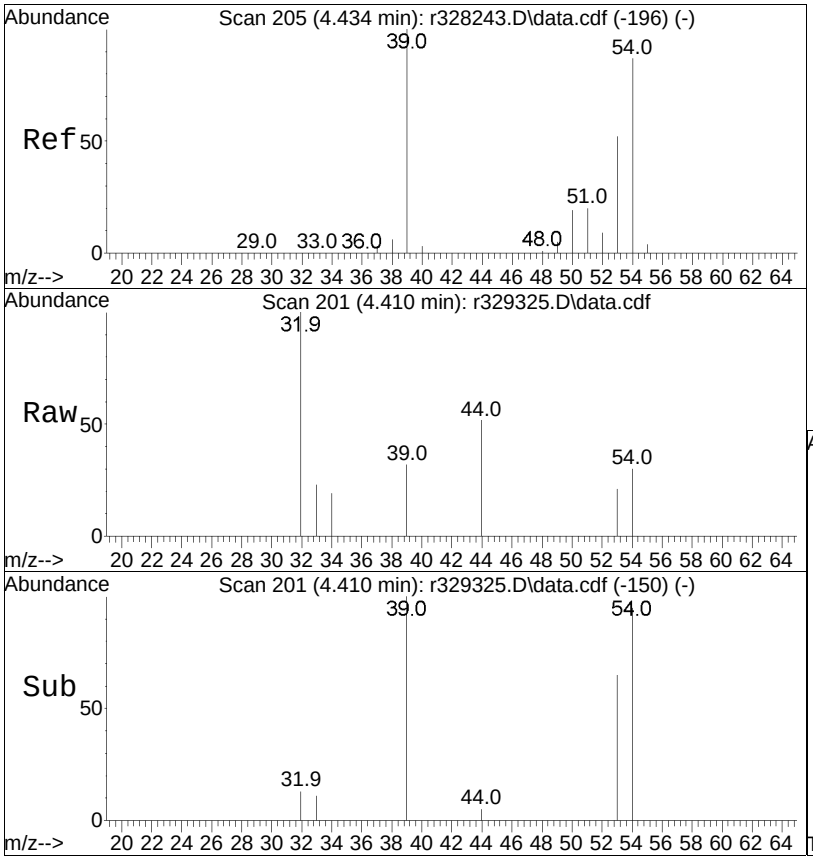


#6
chloromethane
Concen: 0.60 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 50 Resp: 8006

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.6

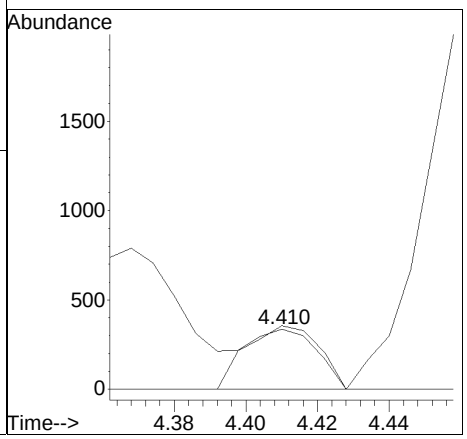


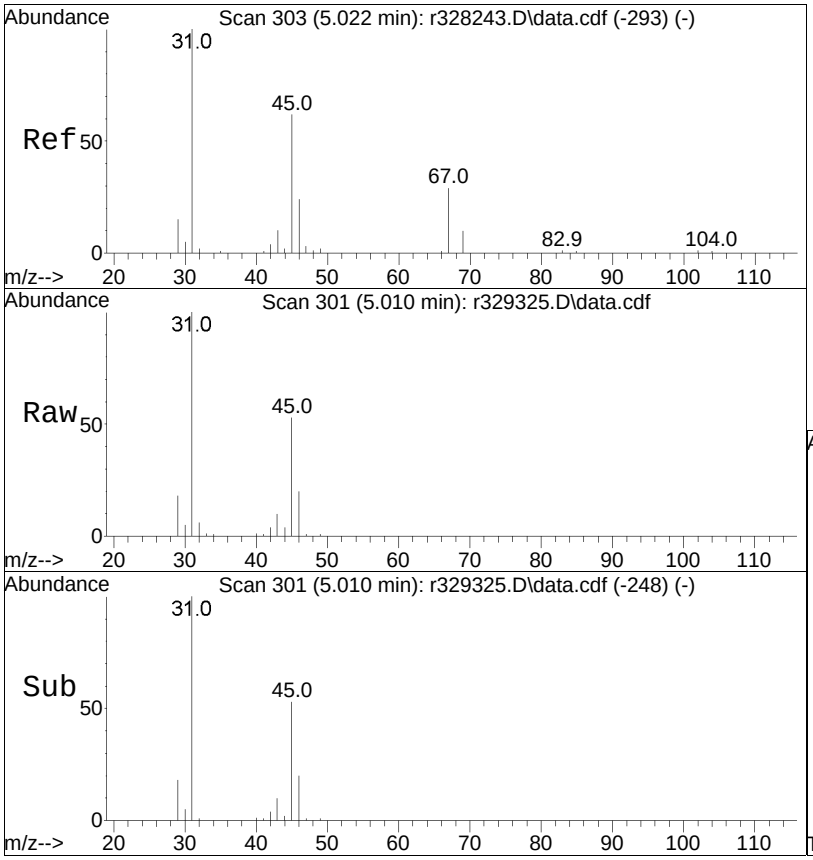


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 54 Resp: 477

Ion	Ratio	Lower	Upper
54	100		
39	105.6	92.3	138.5

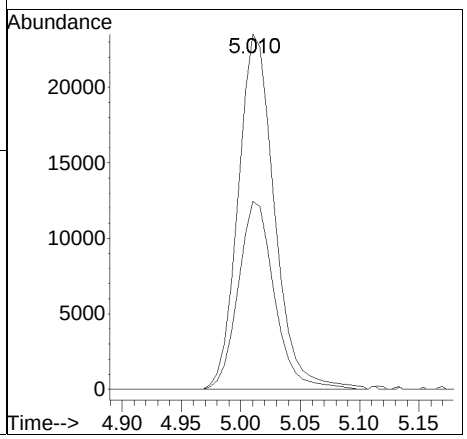


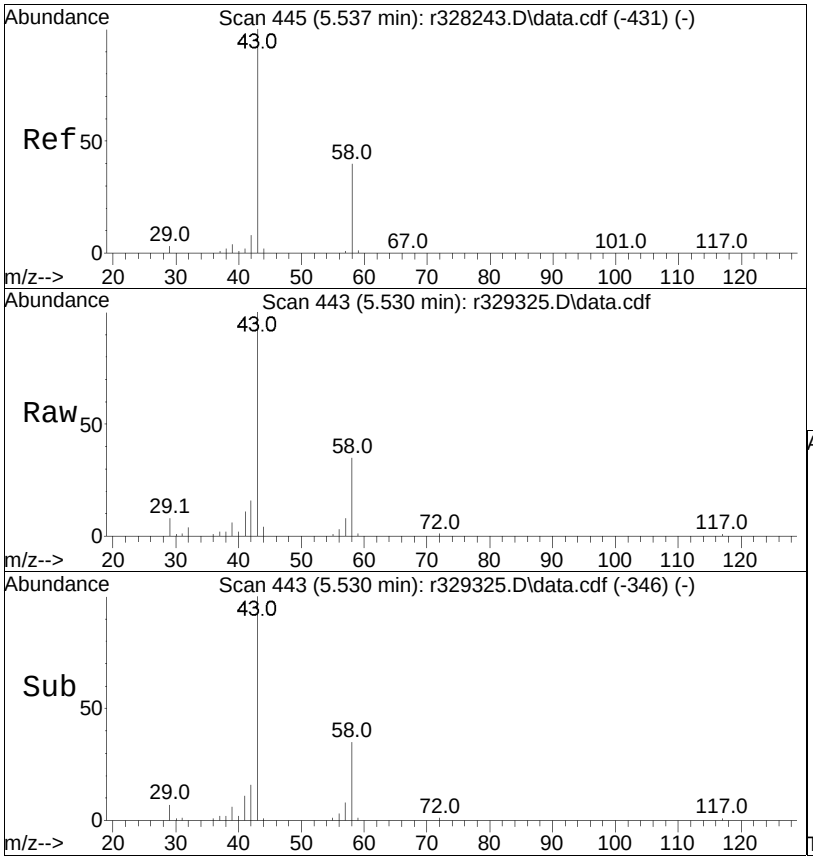


#15
ethanol
Concen: 5.64 ppbV
RT: 5.010 min Scan# 301
Delta R.T. -0.012 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 31 Resp: 52263

Ion	Ratio	Lower	Upper
31	100		
45	52.9	49.8	74.6

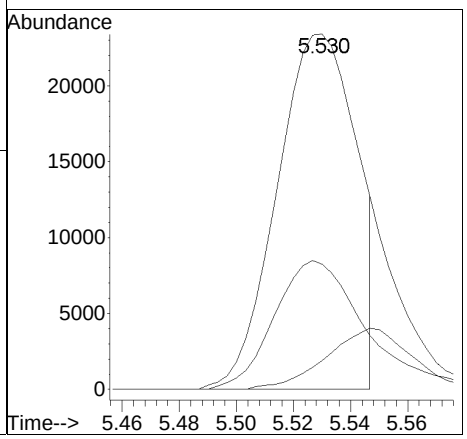


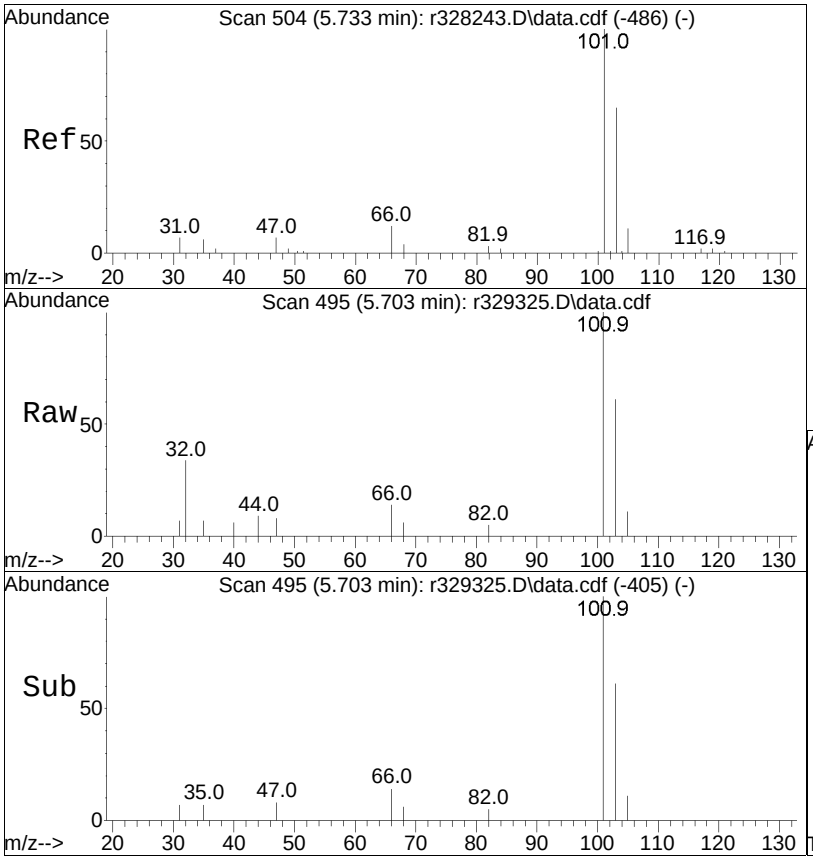


#19
acetone
Concen: 1.83 ppbV m
RT: 5.530 min Scan# 443
Delta R.T. -0.007 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 43 Resp: 45421

Ion	Ratio	Lower	Upper
43	100		
58	35.2	31.9	47.9
57	8.1	0.9	1.3#

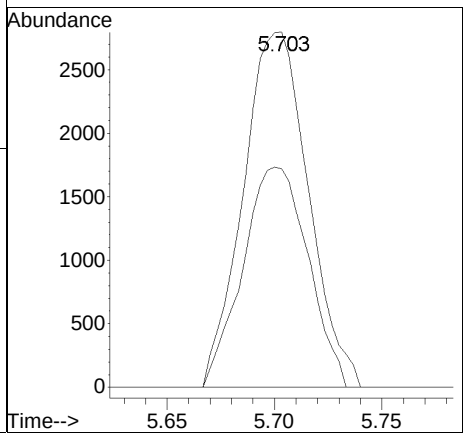


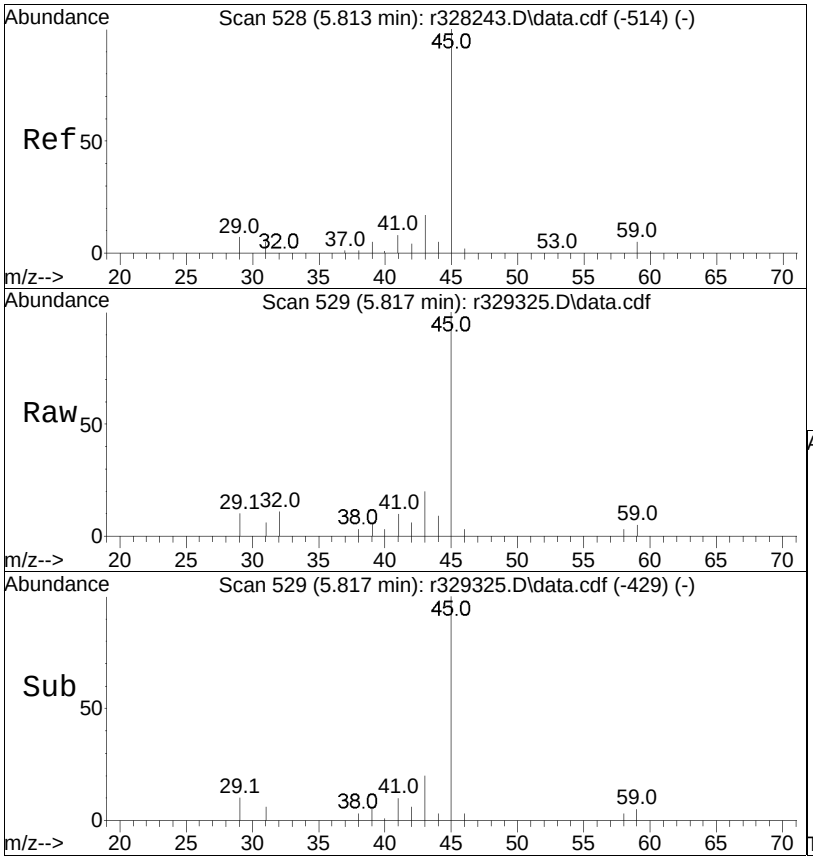


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.703 min Scan# 495
Delta R.T. -0.030 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion:101 Resp: 5913

Ion	Ratio	Lower	Upper
101	100		
103	61.5	51.7	77.5

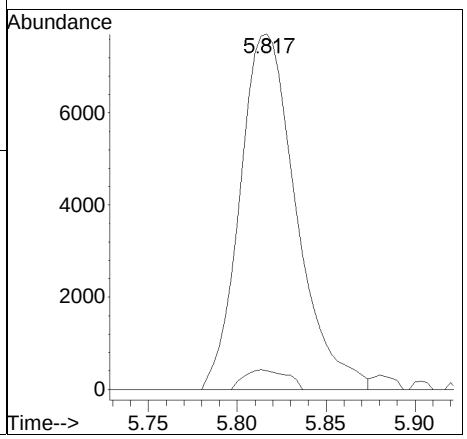


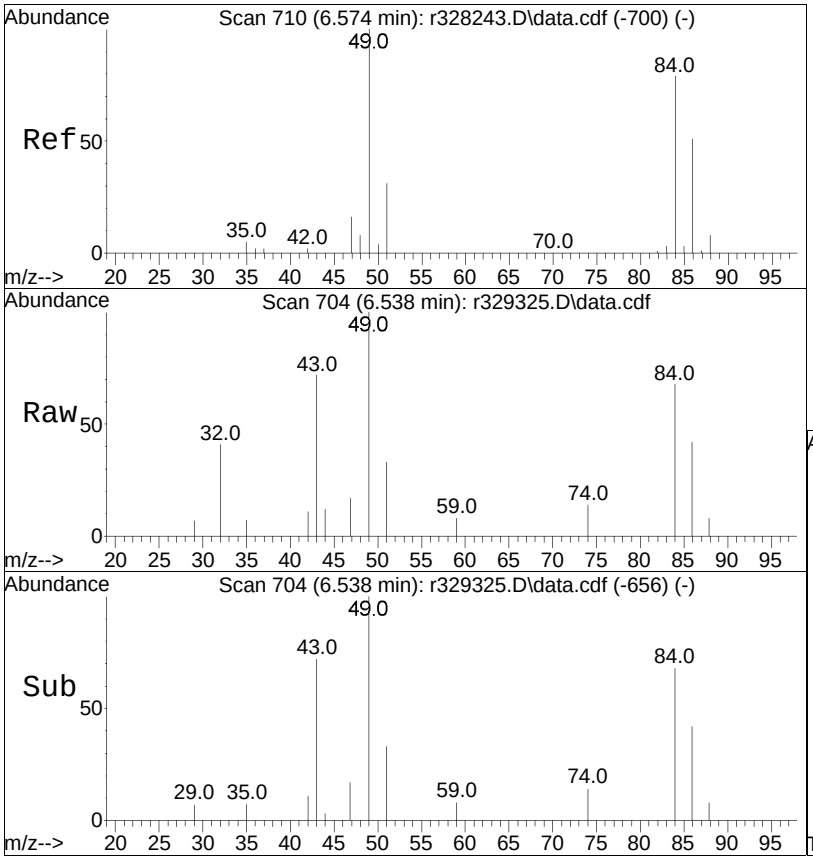


#22
isopropyl alcohol
Concen: 0.56 ppbV
RT: 5.817 min Scan# 529
Delta R.T. 0.003 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 45 Resp: 16983

Ion	Ratio	Lower	Upper
45	100		
59	5.3	3.7	5.5

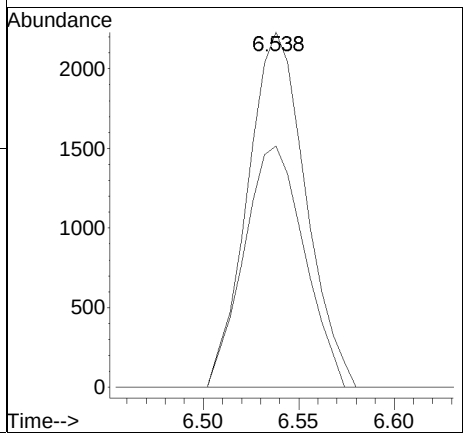


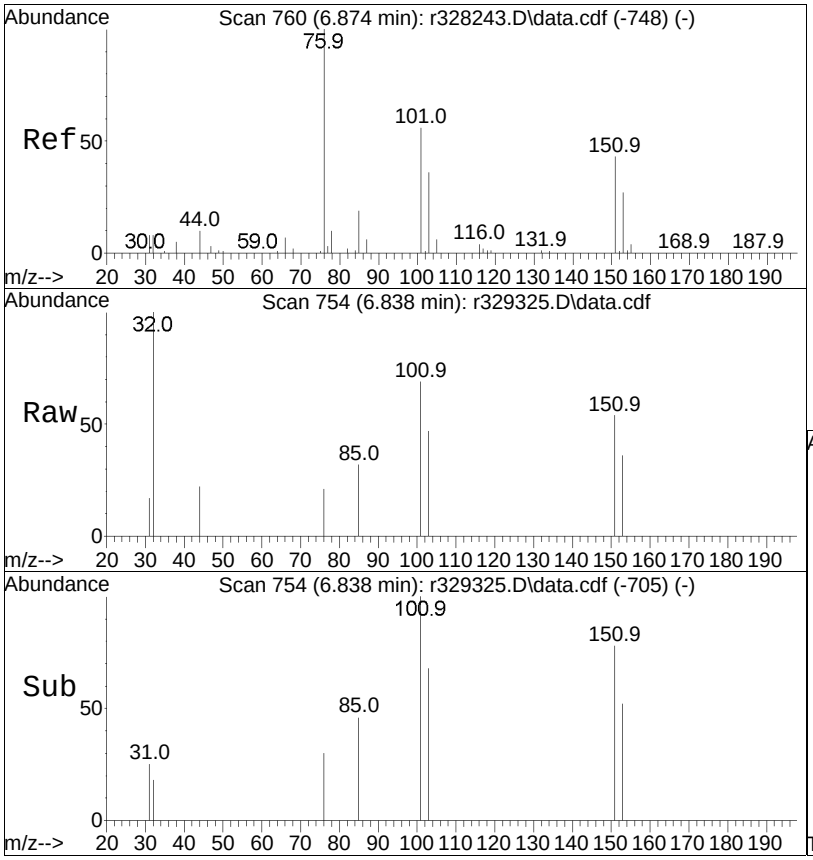


#28
methylene chloride
Concen: 0.26 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 49 Resp: 4723

Ion	Ratio	Lower	Upper
49	100		
84	67.9	63.3	94.9

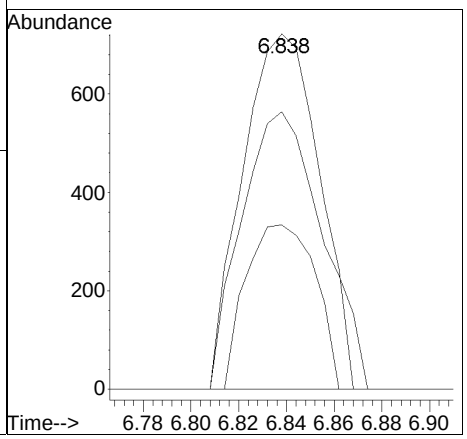


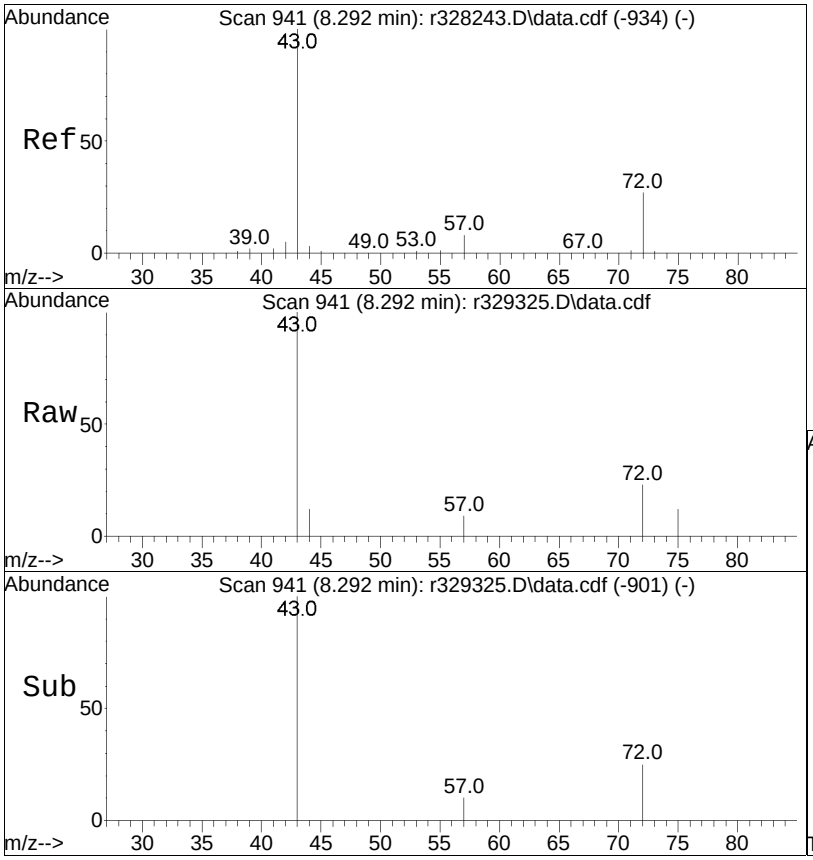


#31
Freon 113
Concen: 0.05 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion:101 Resp: 1616

Ion	Ratio	Lower	Upper
101	100		
85	46.3	27.9	41.9#
151	78.1	61.0	91.4

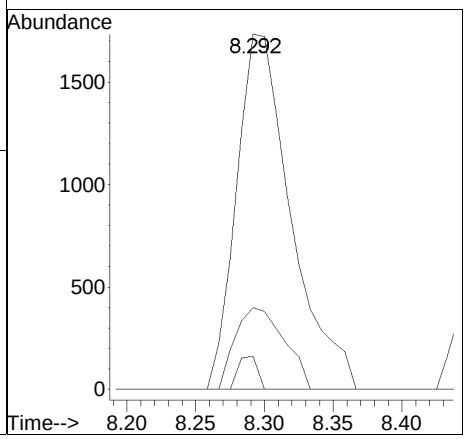


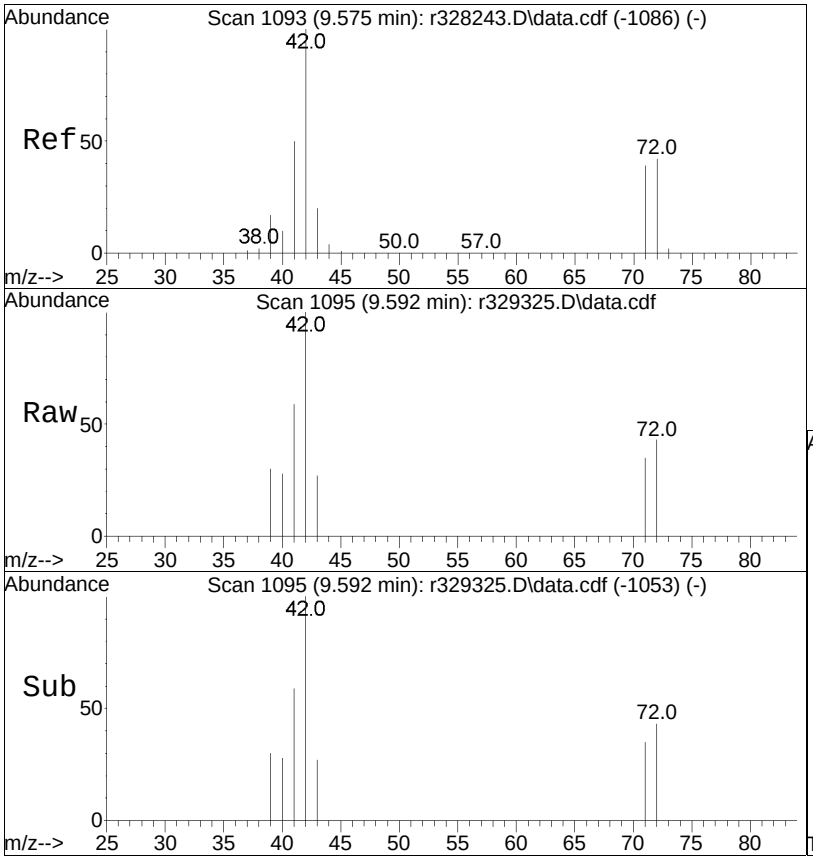


#36
2-butanone
Concen: 0.12 ppbV
RT: 8.292 min Scan# 941
Delta R.T. 0.000 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 43 Resp: 4789

Ion	Ratio	Lower	Upper
43	100		
72	23.0	21.9	32.9
57	9.3	6.6	9.8

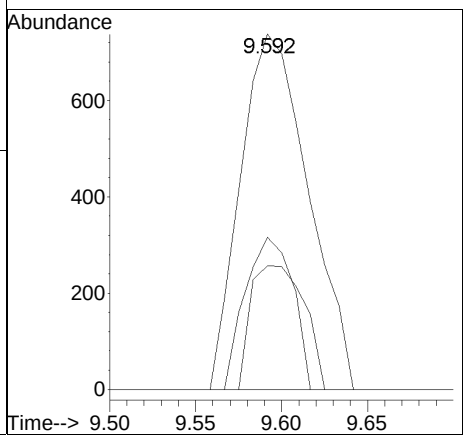


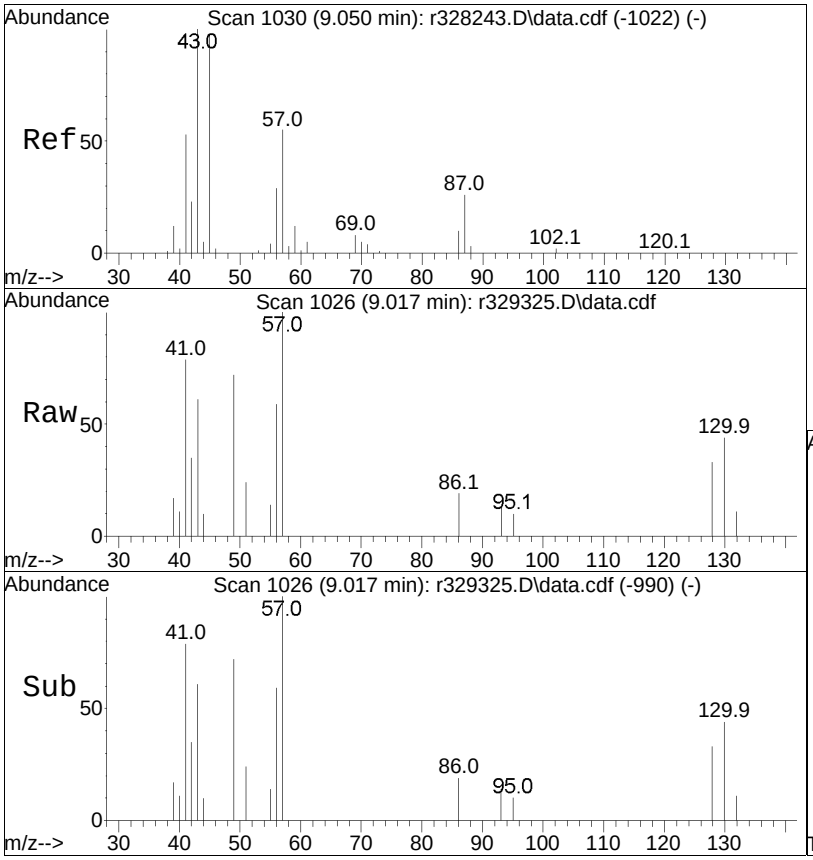


#40
Tetrahydrofuran
Concen: 0.08 ppbV
RT: 9.592 min Scan# 1095
Delta R.T. 0.017 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 42 Resp: 2027

Ion	Ratio	Lower	Upper
42	100		
71	34.8	31.4	47.0
72	42.8	33.4	50.2

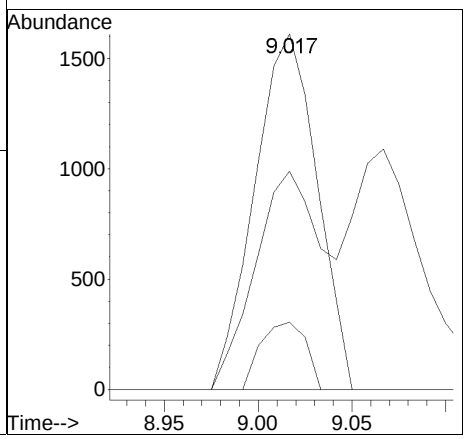


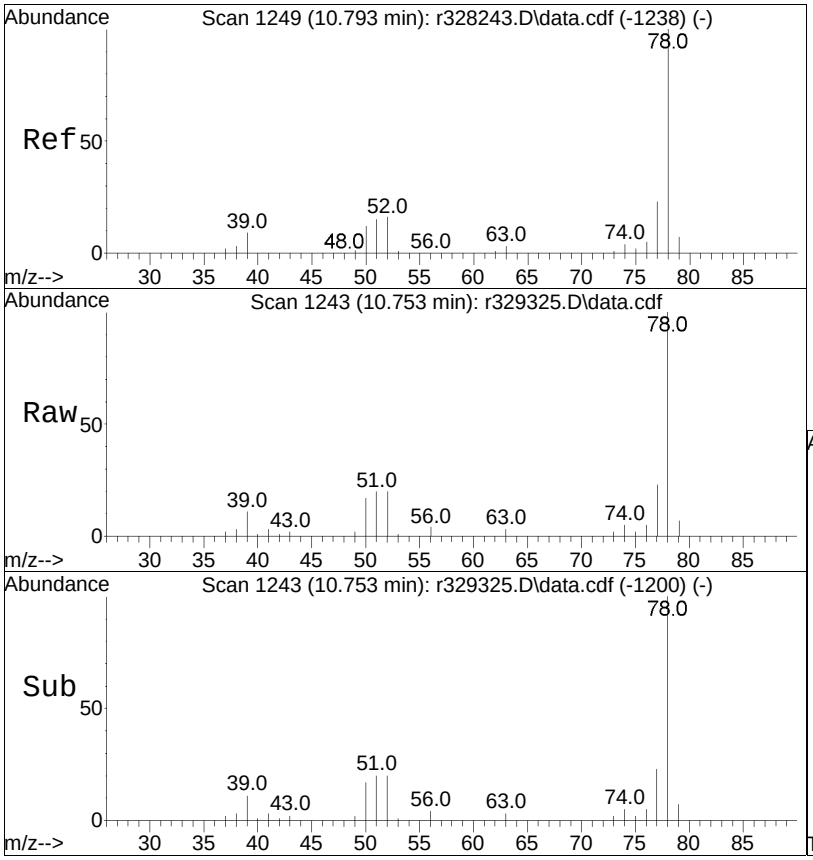


#44
hexane
Concen: 0.14 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 57 Resp: 3735

Ion	Ratio	Lower	Upper
57	100		
43	61.4	145.3	217.9#
86	18.9	14.3	21.5

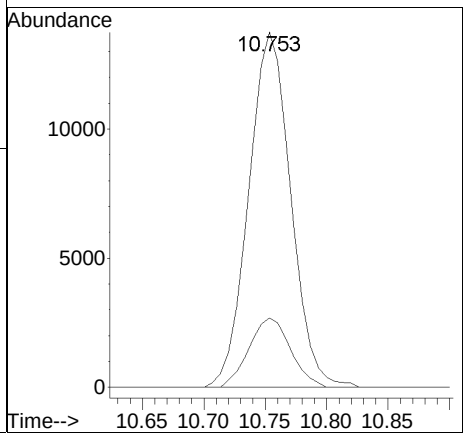


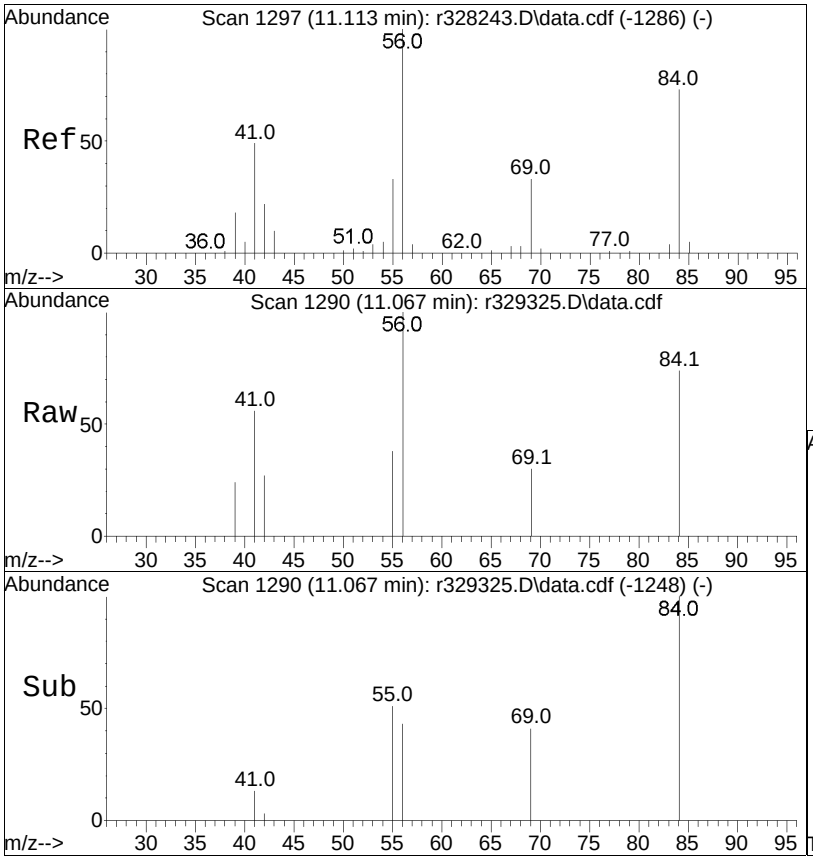


#50
benzene
Concen: 0.66 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 78 Resp: 32769

Ion	Ratio	Lower	Upper
78	100		
52	19.6	12.4	18.6#

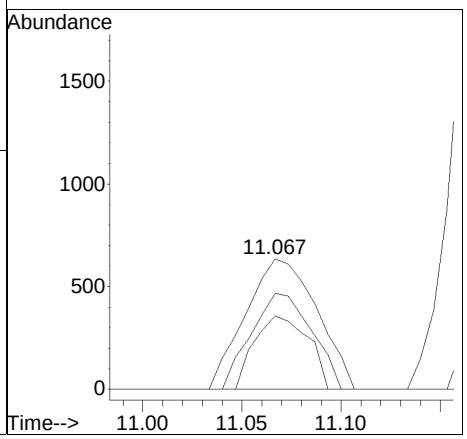


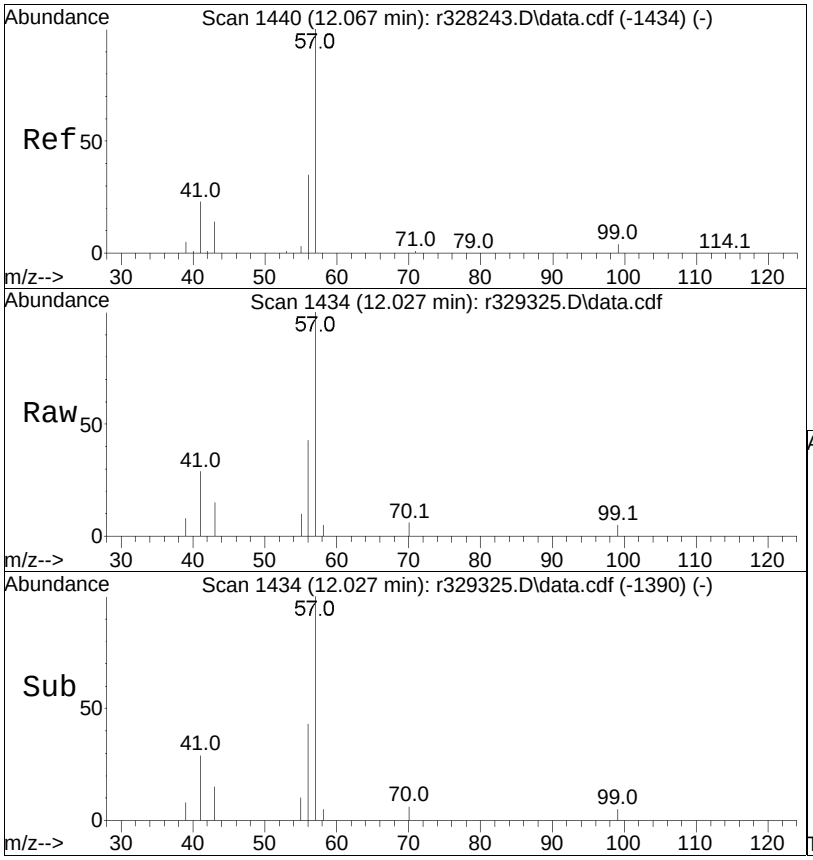


#53
cyclohexane
Concen: 0.06 ppbV
RT: 11.067 min Scan# 1290
Delta R.T. -0.047 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 56 Resp: 1588

Ion	Ratio	Lower	Upper
56	100		
84	73.6	58.7	88.1
41	56.3	39.6	59.4

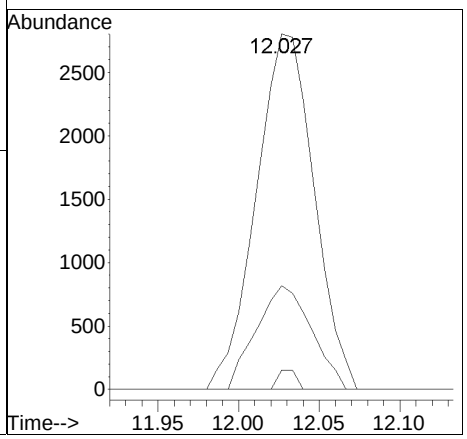


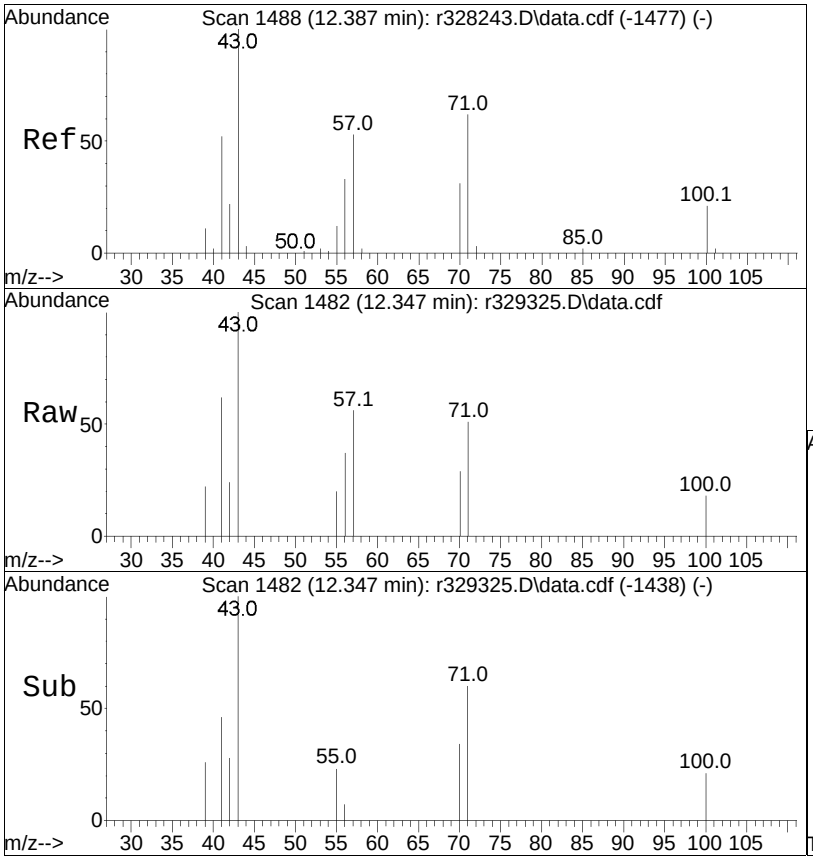


#60
2,2,4-trimethylpentane
Concen: 0.08 ppbV
RT: 12.027 min Scan# 1434
Delta R.T. -0.040 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 57 Resp: 6996

Ion	Ratio	Lower	Upper
57	100		
99	5.5	4.9	7.3
41	29.2	18.2	27.4#

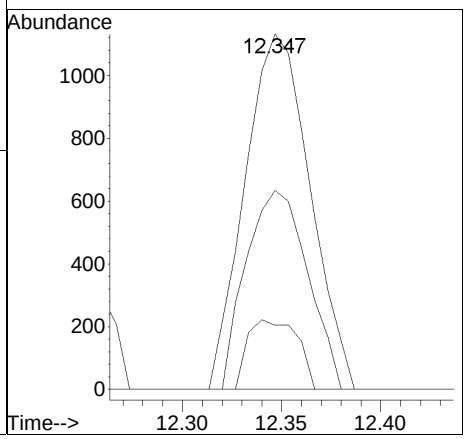


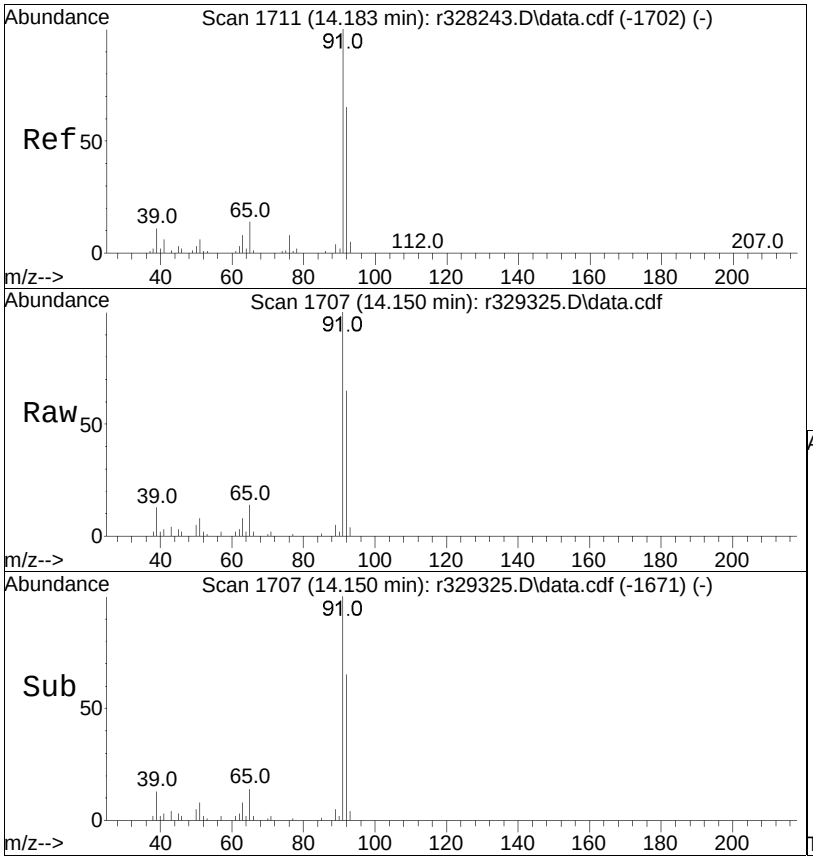


#62
heptane
Concen: 0.08 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 43 Resp: 2586

Ion	Ratio	Lower	Upper
43	100		
57	56.0	42.6	64.0
100	18.0	17.0	25.4

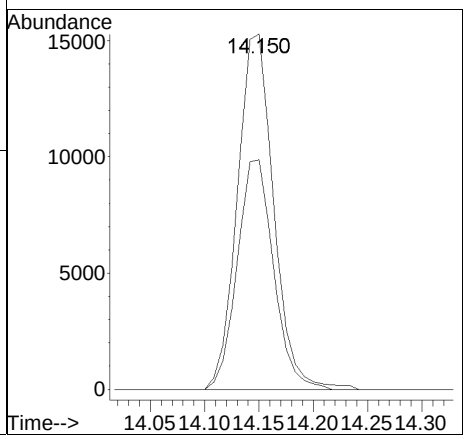


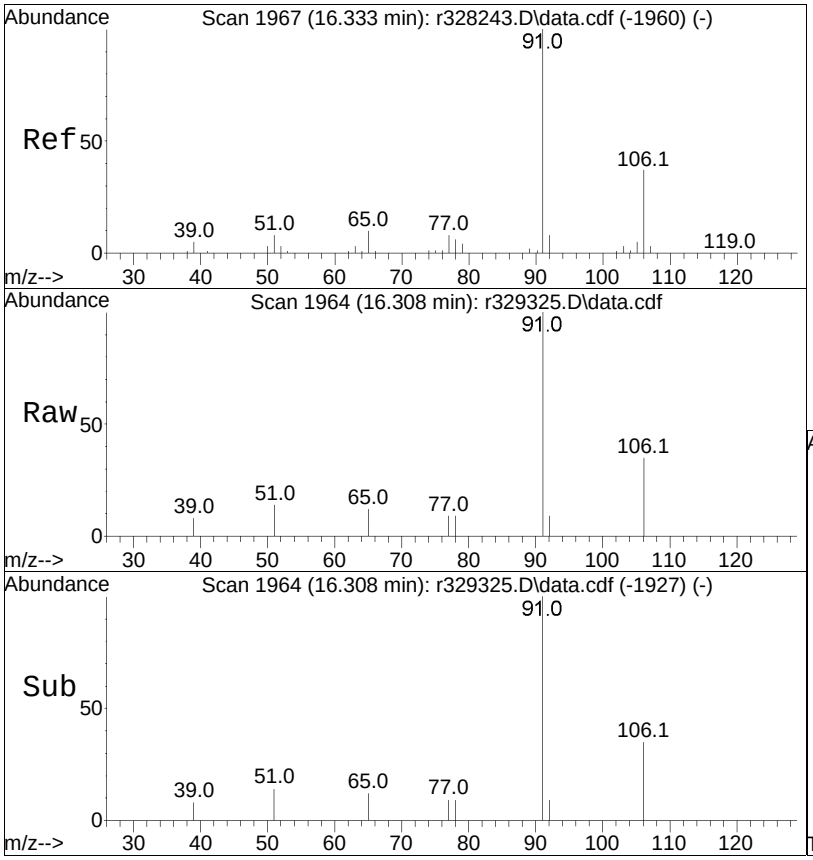


#68
toluene
Concen: 0.44 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 91 Resp: 35554

Ion	Ratio	Lower	Upper
91	100		
92	64.6	52.1	78.1

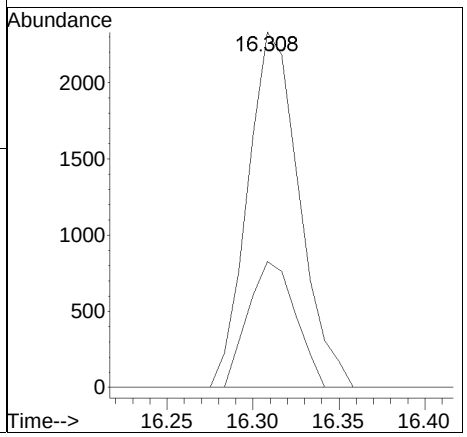


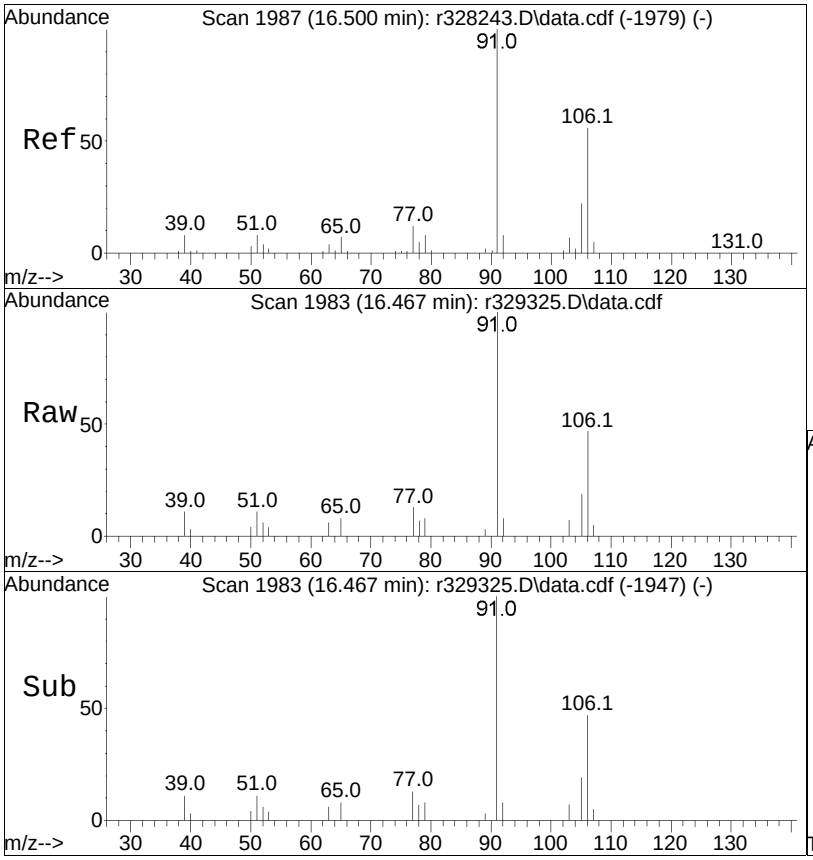


#81
ethylbenzene
Concen: 0.05 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 91 Resp: 4886

Ion	Ratio	Lower	Upper
91	100		
106	35.4	29.2	43.8

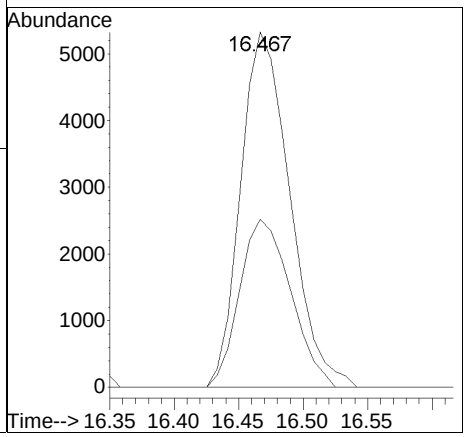


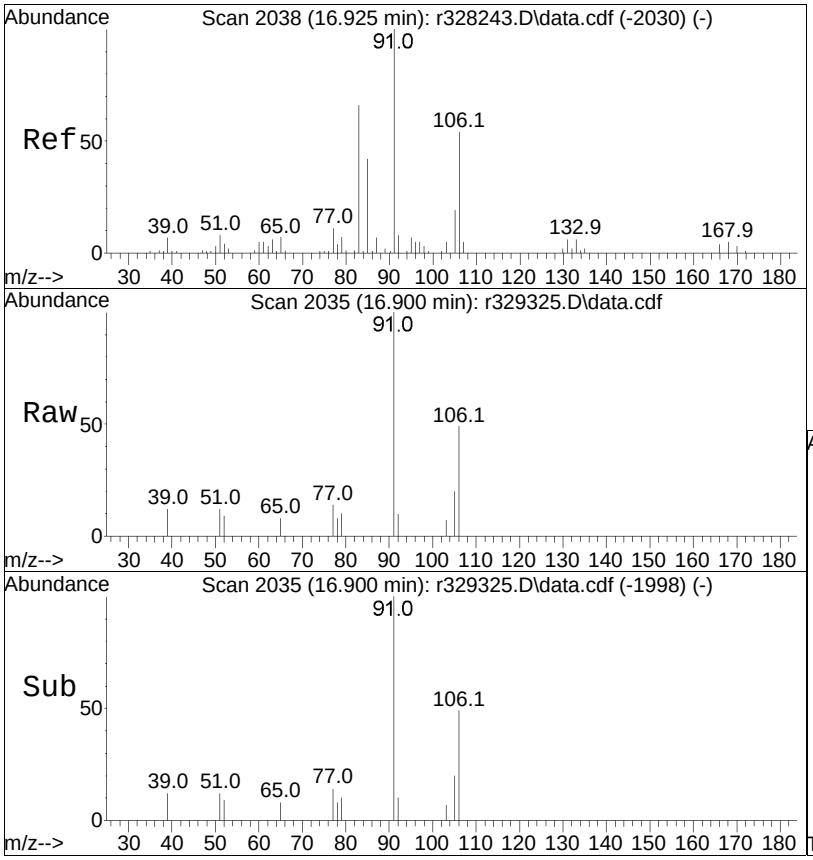


#83
m+p-xylene
Concen: 0.18 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 91 Resp: 14139

Ion	Ratio	Lower	Upper
91	100		
106	47.3	44.8	67.2

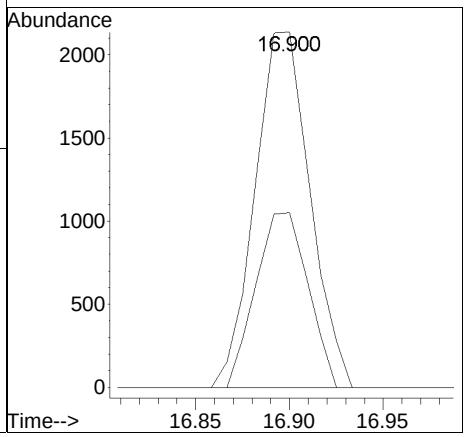




#87
o-xylene
Concen: 0.05 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329325.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion: 91 Resp: 4362

Ion	Ratio	Lower	Upper
91	100		
106	49.2	43.0	64.6

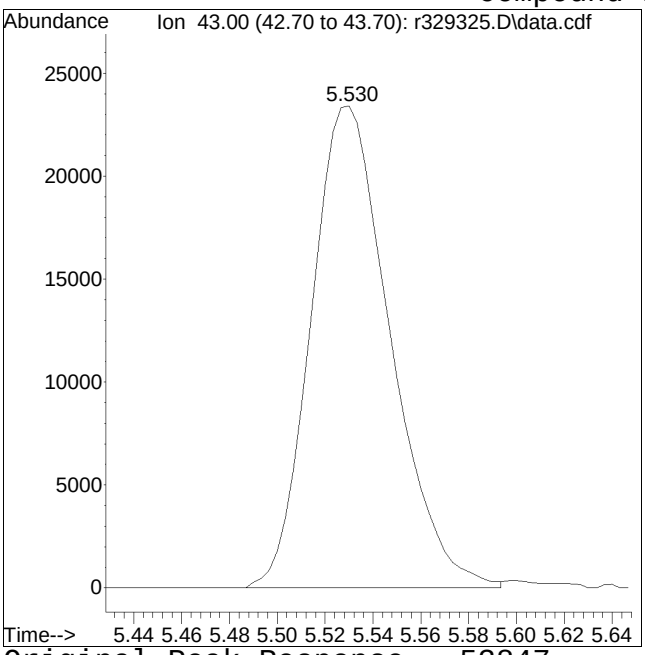


Manual Integration Report

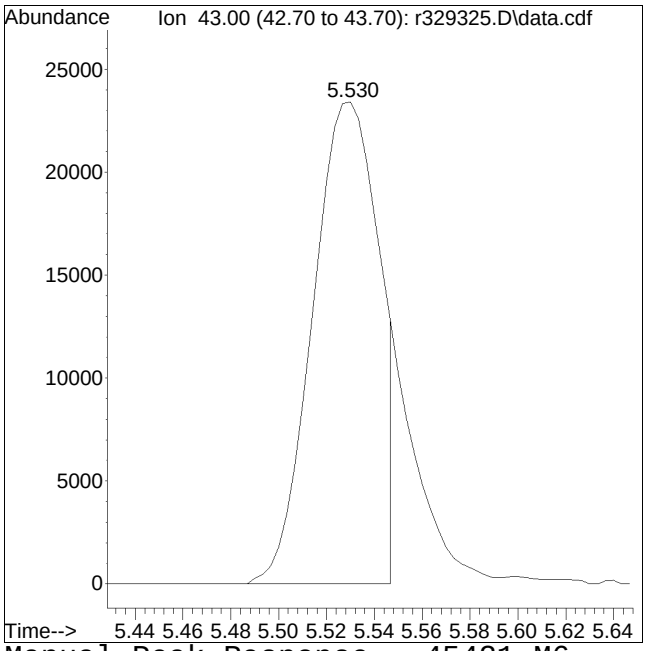
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329325.D
Date Inj'd : 2/25/2020 0:1: 3
Sample : L2409224-06,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:11 am

Compound #19: acetone



Original Peak Response = 53847



Manual Peak Response = 45421 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329326.D
Acq On : 26 Feb 2024 12:34 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:55 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	236806	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		84.51%	
43) 1,4-difluorobenzene	11.180	114	624511	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		81.28%	
67) chlorobenzene-D5	15.917	54	122979	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		85.93%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15122	0.548	ppbV	100
6) chloromethane	4.044	50	8839	0.650	ppbV	98
7) Freon-114	4.146		0	N.D.		
10) 1,3-butadiene	4.410		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.004	31	6623057	701.963	ppbV	99
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.513	43	112754M6	4.467	ppbV	
21) trichlorofluoromethane	5.700	101	5898	0.206	ppbV	96
22) isopropyl alcohol	5.793	45	376228	12.219	ppbV	100
27) tertiary butyl alcohol	6.466	59	15396	0.419	ppbV #	93
28) methylene chloride	6.538	49	4441	0.241	ppbV	87
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.838	76	2088	0.041	ppbV #	42
31) Freon 113	6.832	101	1820	0.057	ppbV #	93
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	8.275	43	17553	0.431	ppbV	93
38) Ethyl Acetate	9.050	61	662	0.094	ppbV #	44
39) chloroform	9.100	83	1109	0.039	ppbV #	89
40) Tetrahydrofuran	9.575	42	1973	0.078	ppbV	89
42) 1,2-dichloroethane	0.000		0	N.D.	d	
44) hexane	9.017	57	2819	0.100	ppbV #	30
50) benzene	10.753	78	12032	0.234	ppbV #	88
53) cyclohexane	11.073	56	1941	0.066	ppbV	94
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329326.D
Acq On : 26 Feb 2024 12:34 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:55 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

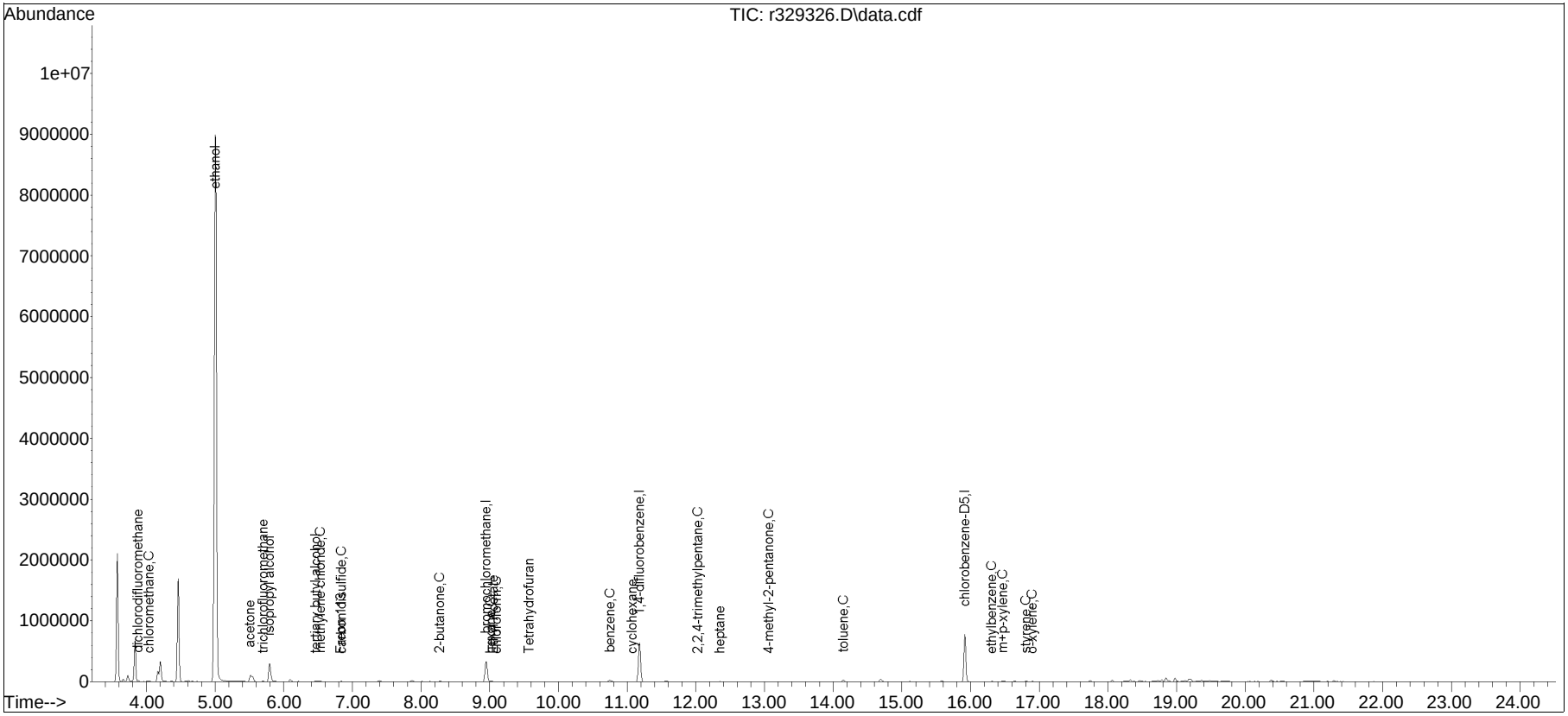
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	3053	0.032	ppbV #	75
62) heptane	12.353	43	2996	0.090	ppbV	93
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.067	43	1276	0.033	ppbV #	86
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	25493	0.300	ppbV	97
72) 2-hexanone	14.492		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.308	91	6819	0.065	ppbV	96
83) m+p-xylene	16.467	91	11179	0.133	ppbV	94
84) bromoform	0.000		0	N.D.		
85) styrene	16.808	104	3803	0.055	ppbV #	85
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	4423	0.053	ppbV	94
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101) Benzyl Chloride	18.383		0	N.D.		
102) 1,3-dichlorobenzene	18.575		0	N.D.		
103) 1,4-dichlorobenzene	18.575		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

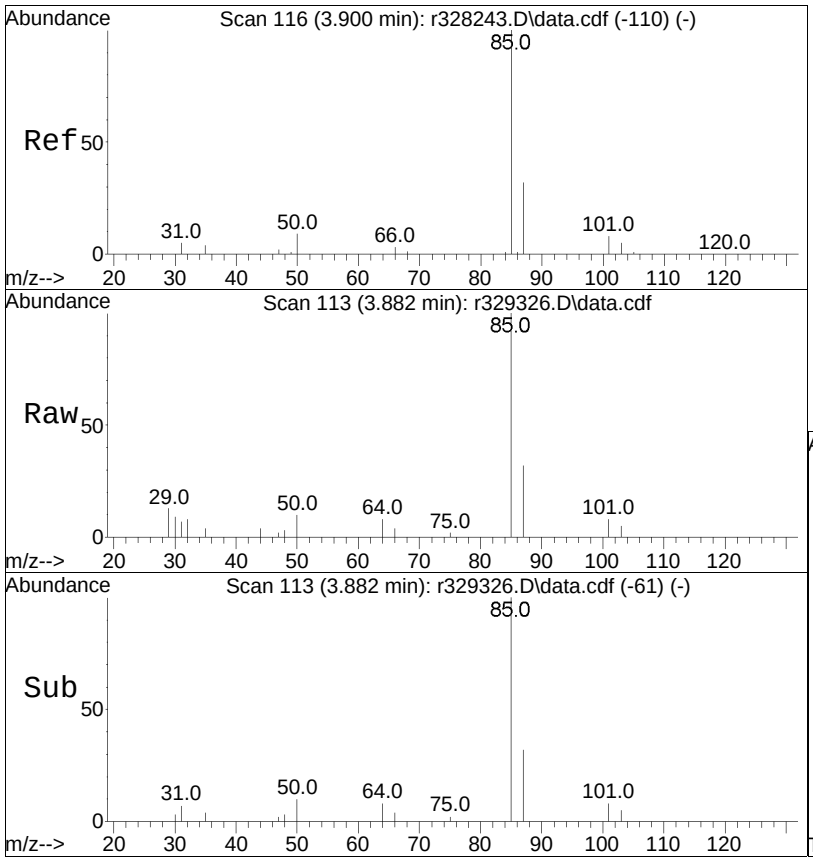
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329326.D
Acq On : 26 Feb 2024 12:34 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:11:55 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

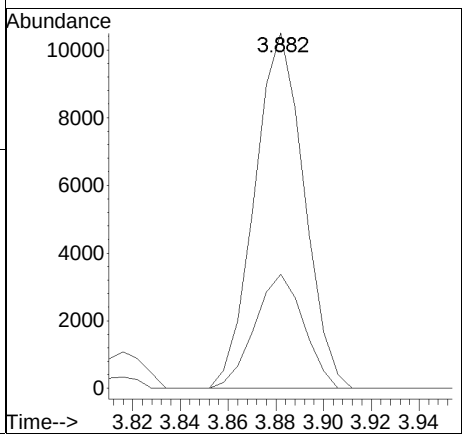


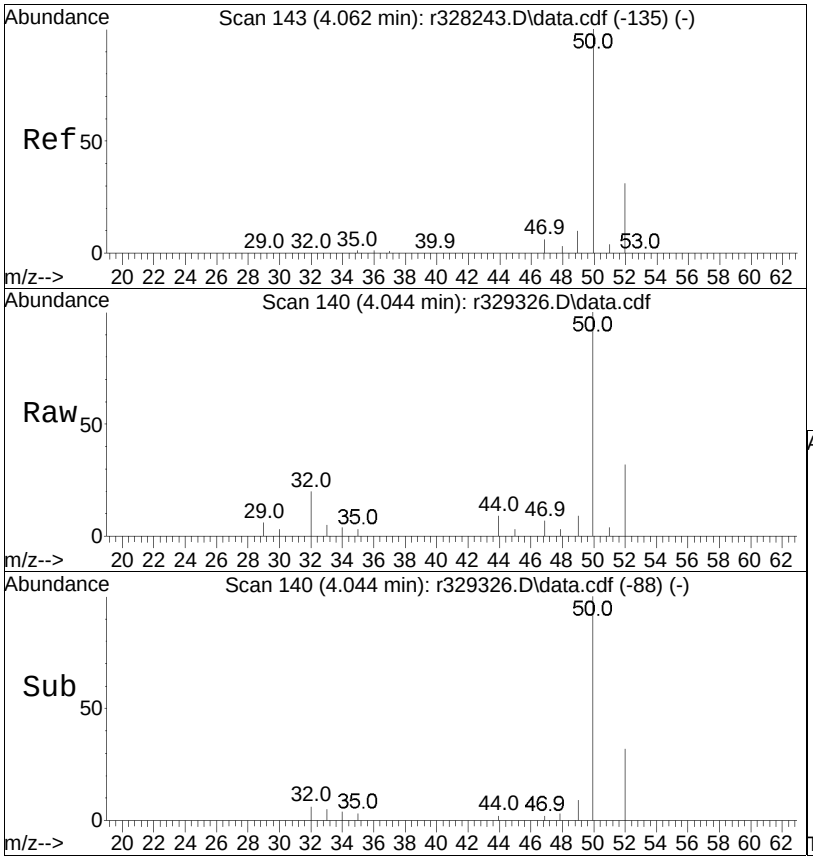


#5
dichlorodifluoromethane
Concen: 0.55 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 85 Resp: 15122

Ion	Ratio	Lower	Upper
85	100		
87	32.1	25.7	38.5

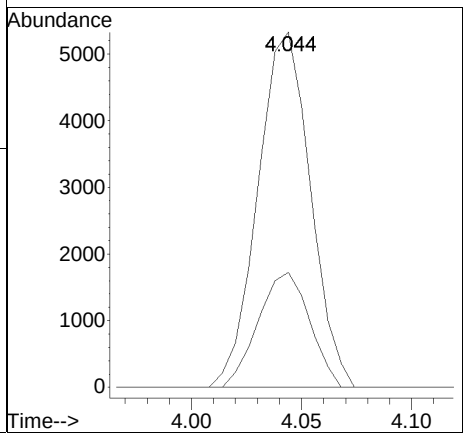


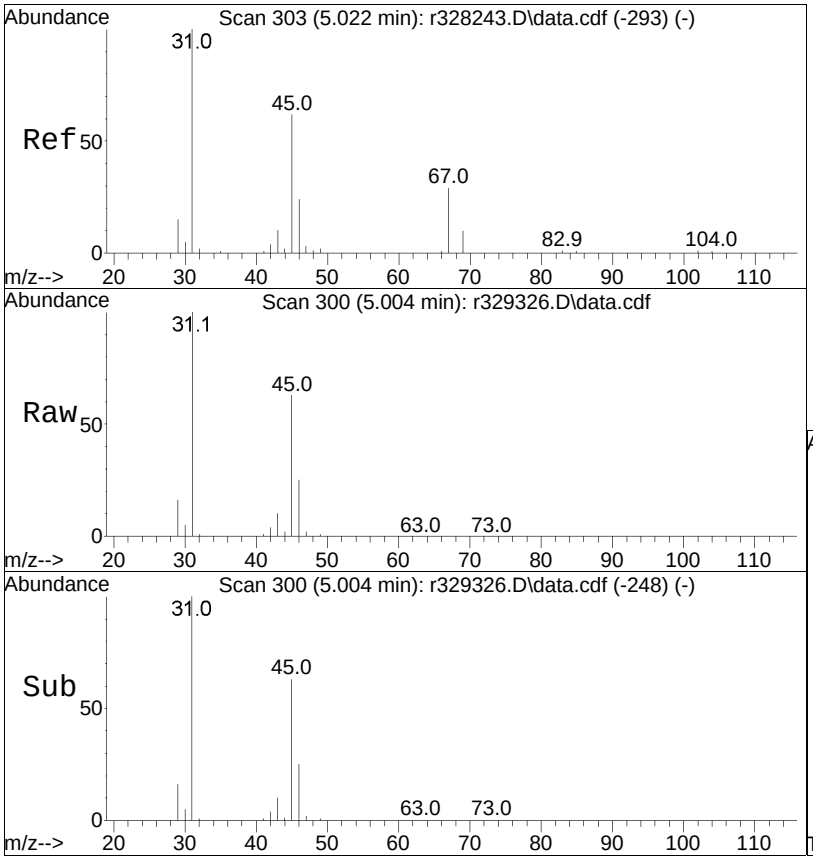


#6
chloromethane
Concen: 0.65 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 50 Resp: 8839

Ion	Ratio	Lower	Upper
50	100		
52	32.4	25.0	37.6

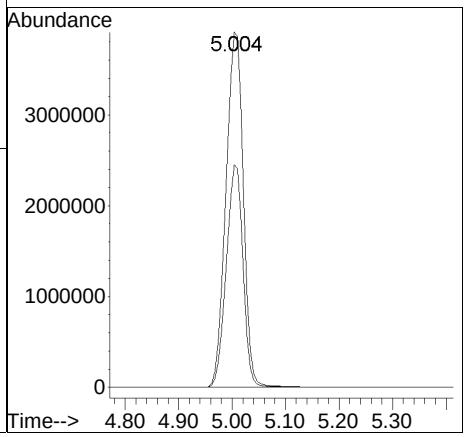


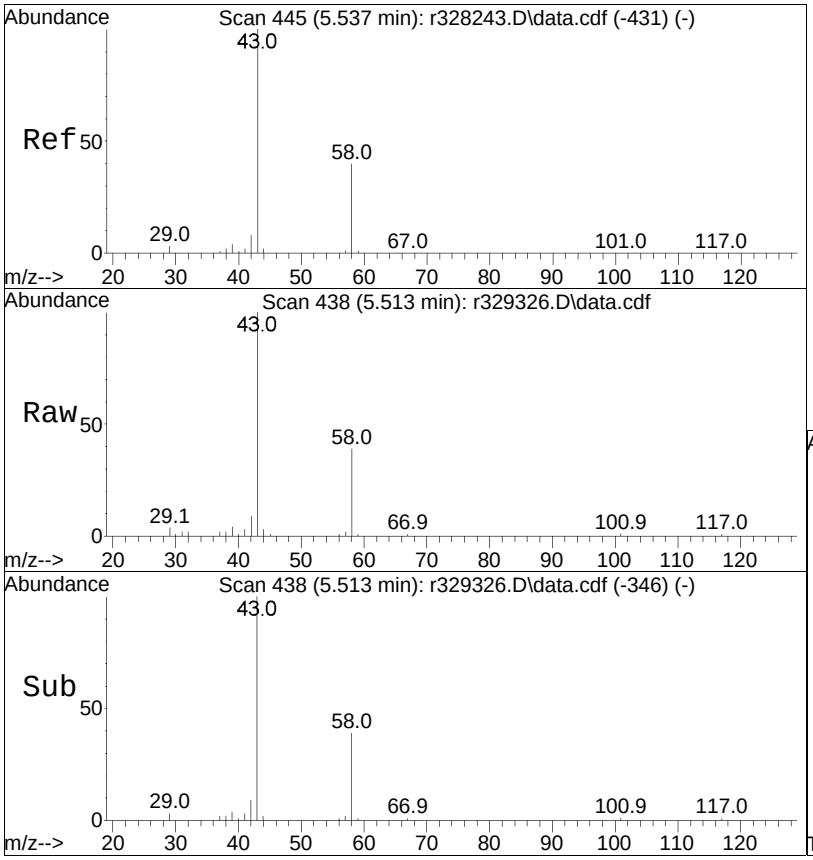


#15
ethanol
Concen: 701.96 ppbV
RT: 5.004 min Scan# 300
Delta R.T. -0.018 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 31 Resp: 6623057

Ion	Ratio	Lower	Upper
31	100		
45	62.7	49.8	74.6

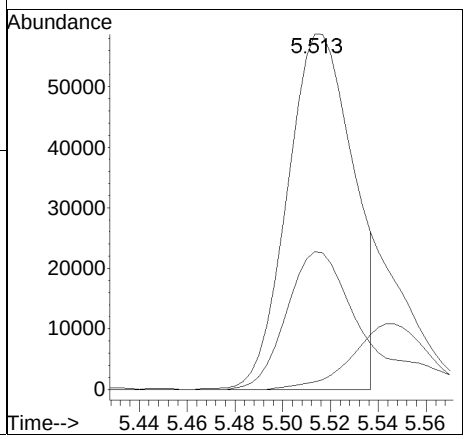


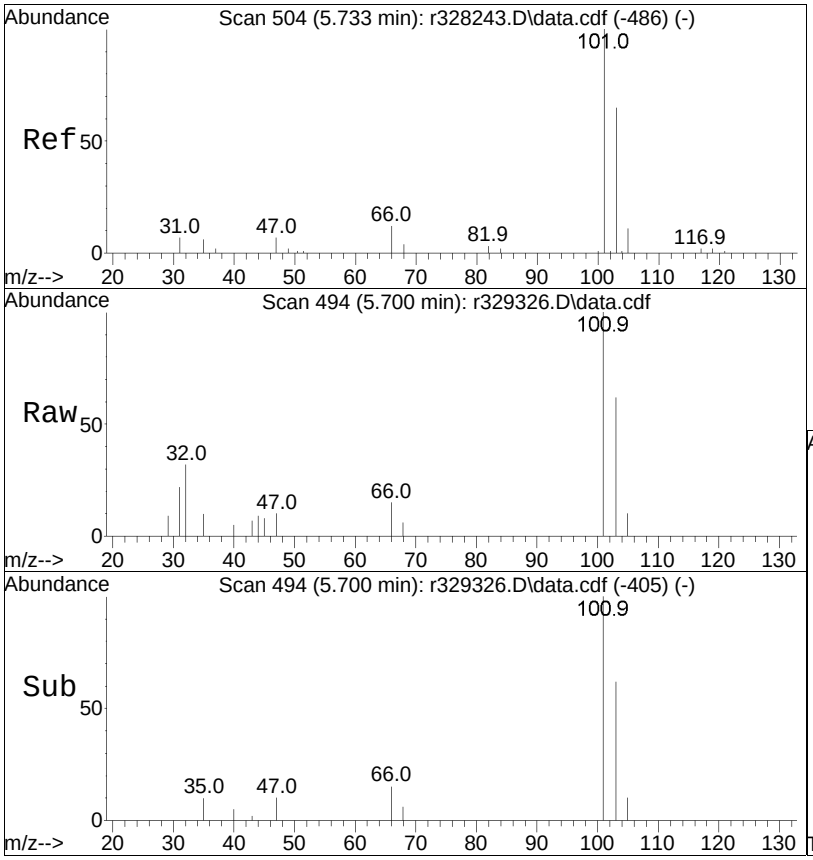


#19
acetone
Concen: 4.47 ppbV m
RT: 5.513 min Scan# 438
Delta R.T. -0.023 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 43 Resp: 112754

Ion	Ratio	Lower	Upper
43	100		
58	38.8	31.9	47.9
57	2.1	0.9	1.3#

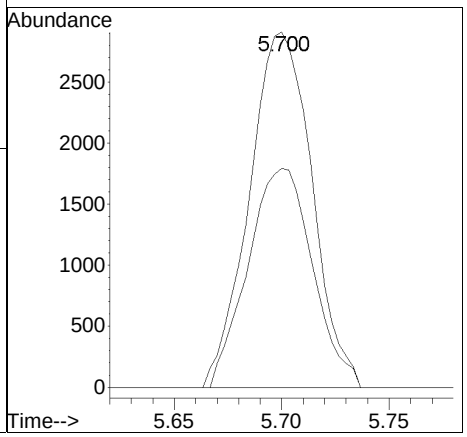


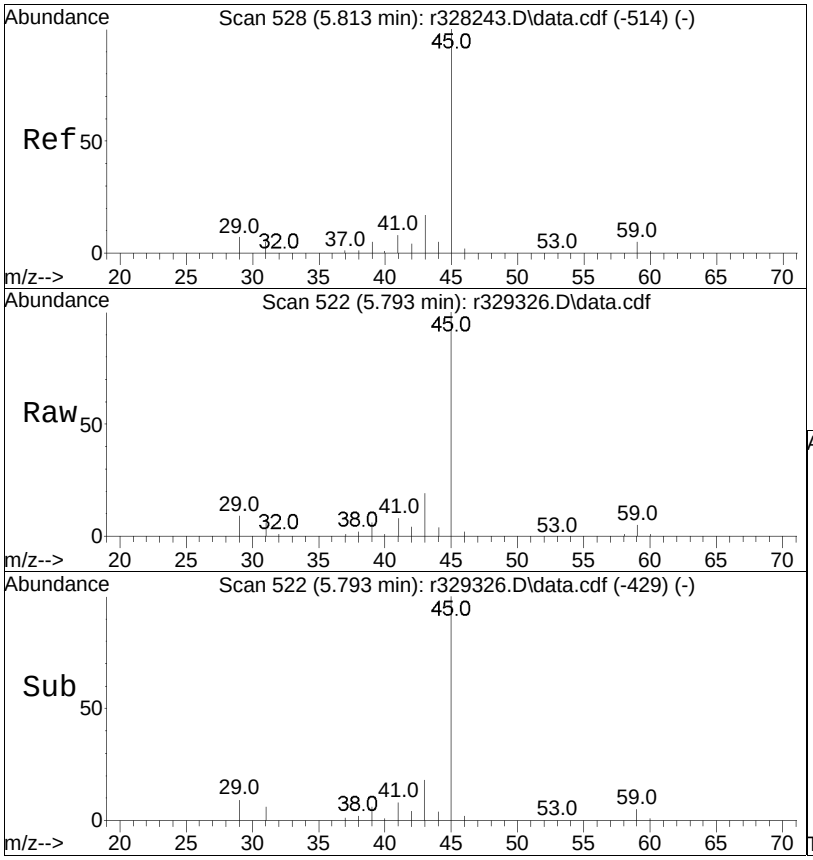


#21
trichlorofluoromethane
Concen: 0.21 ppbV
RT: 5.700 min Scan# 494
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion:101 Resp: 5898

Ion	Ratio	Lower	Upper
101	100		
103	61.7	51.7	77.5

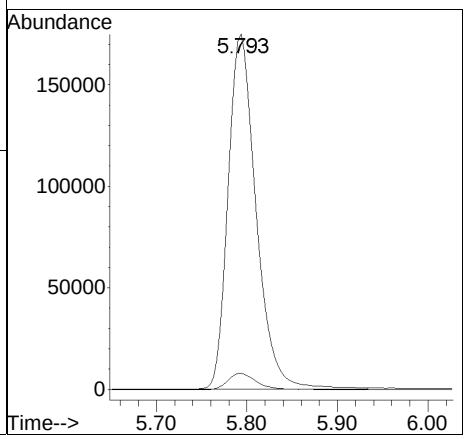


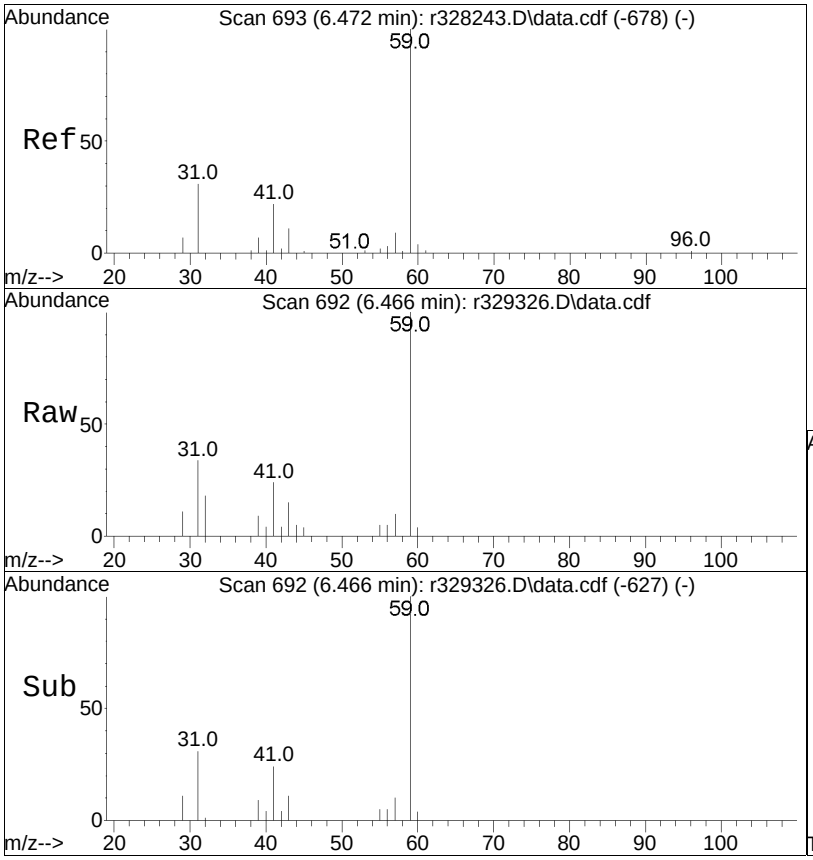


#22
isopropyl alcohol
Concen: 12.22 ppbV
RT: 5.793 min Scan# 522
Delta R.T. -0.020 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 45 Resp: 376228

Ion	Ratio	Lower	Upper
45	100		
59	4.6	3.7	5.5

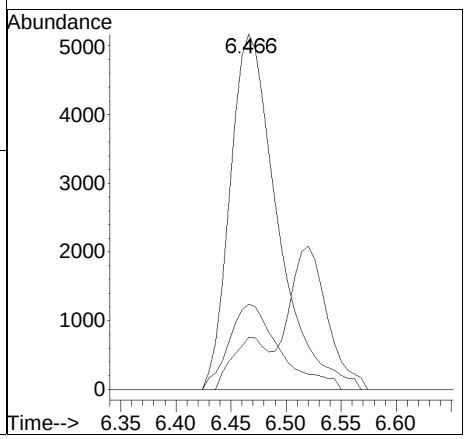


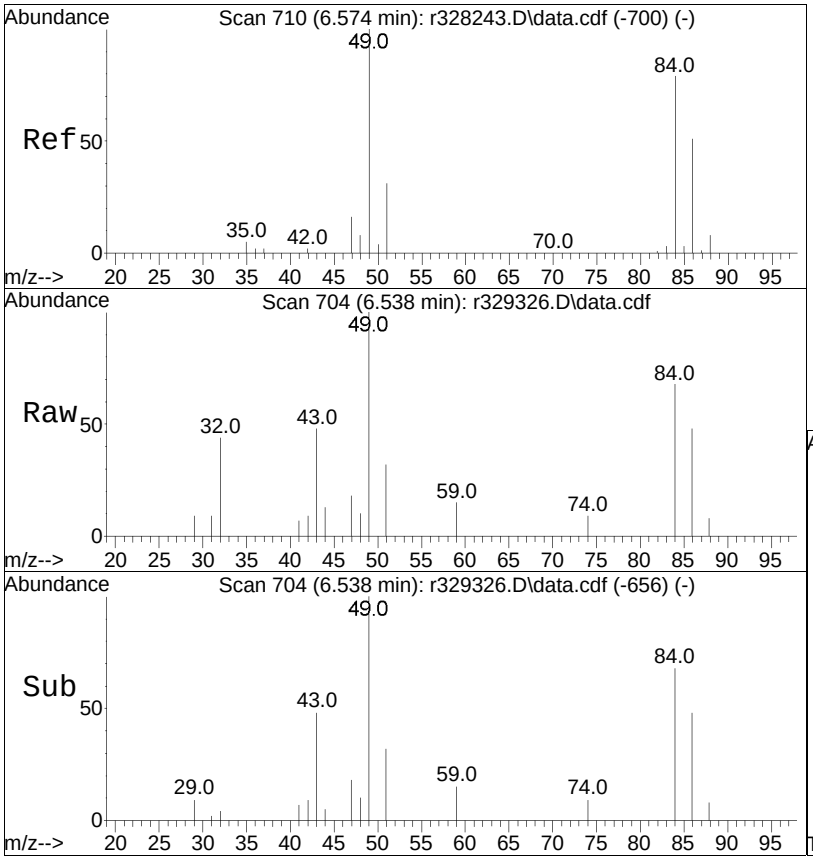


#27
tertiary butyl alcohol
Concen: 0.42 ppbV
RT: 6.466 min Scan# 692
Delta R.T. -0.006 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 59 Resp: 15396

Ion	Ratio	Lower	Upper
59	100		
41	24.0	17.5	26.3
43	14.7	8.4	12.6#

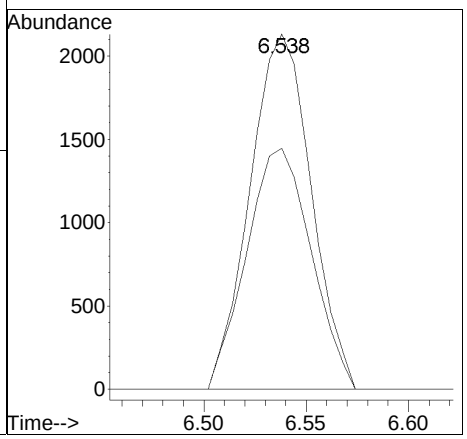


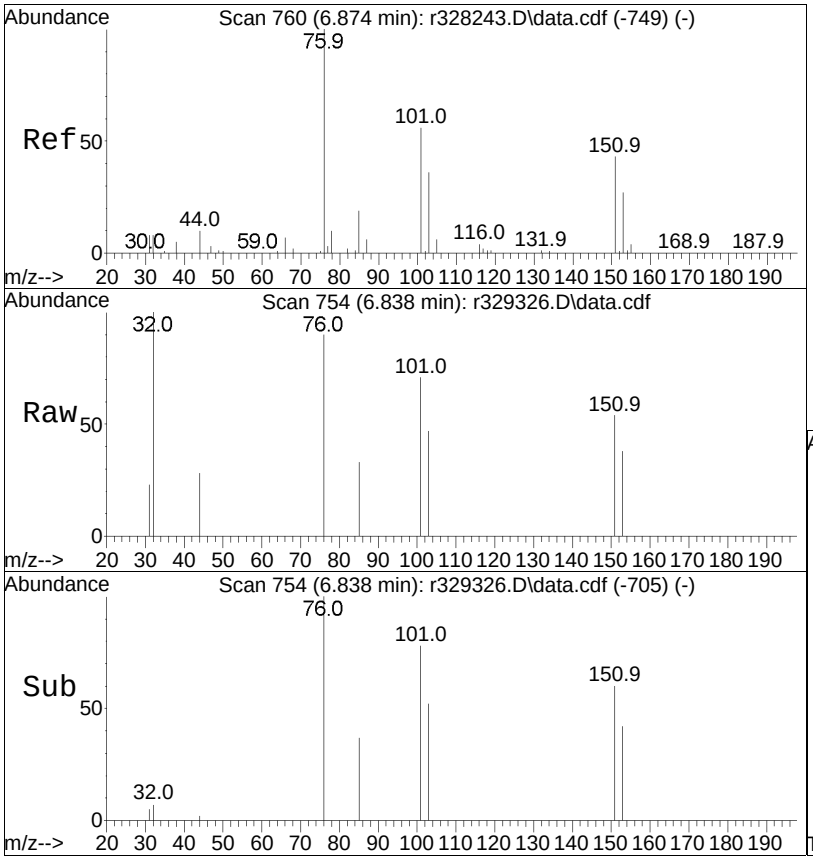


#28
methylene chloride
Concen: 0.24 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 49 Resp: 4441

Ion	Ratio	Lower	Upper
49	100		
84	67.9	63.3	94.9

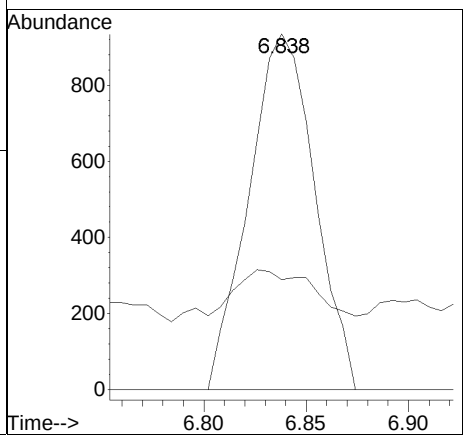


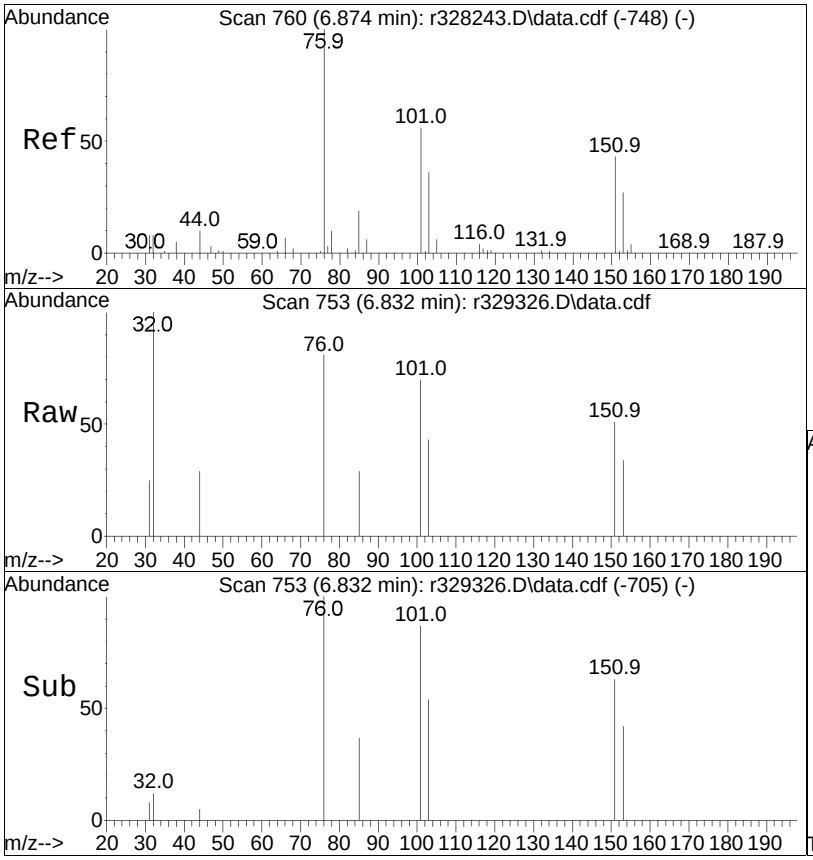


#30
carbon disulfide
Concen: 0.04 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 76 Resp: 2088

Ion	Ratio	Lower	Upper
76	100		
44	30.9	7.7	11.5#

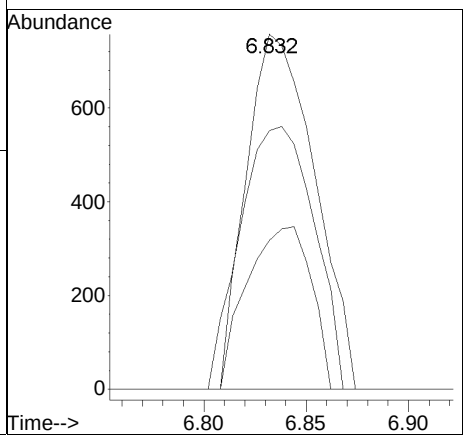


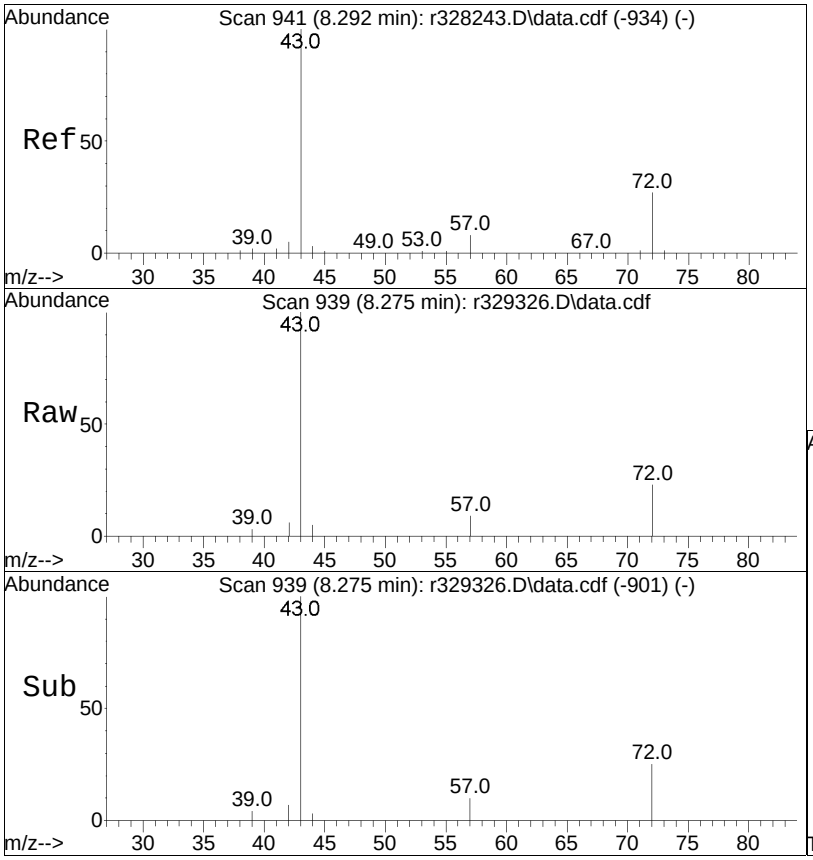


#31
Freon 113
Concen: 0.06 ppbV
RT: 6.832 min Scan# 753
Delta R.T. -0.042 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion:101 Resp: 1820

Ion	Ratio	Lower	Upper
101	100		
85	42.0	27.9	41.9#
151	72.8	61.0	91.4

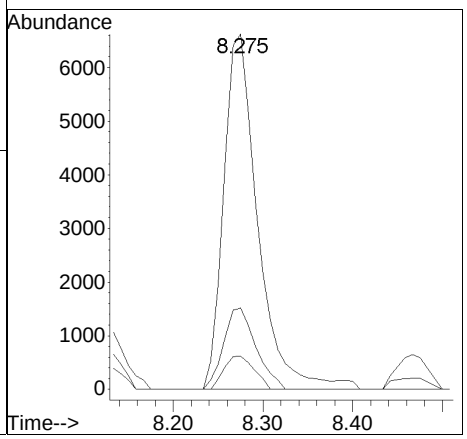


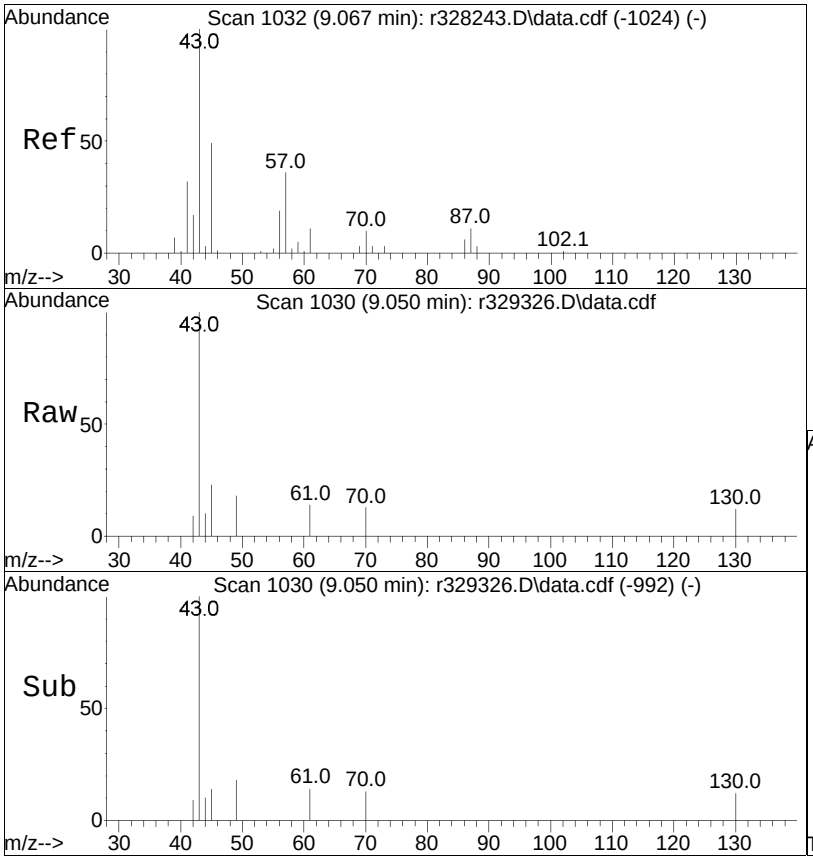


#36
2-butanone
Concen: 0.43 ppbV
RT: 8.275 min Scan# 939
Delta R.T. -0.017 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 43 Resp: 17553

Ion	Ratio	Lower	Upper
43	100		
72	22.9	21.9	32.9
57	9.4	6.6	9.8

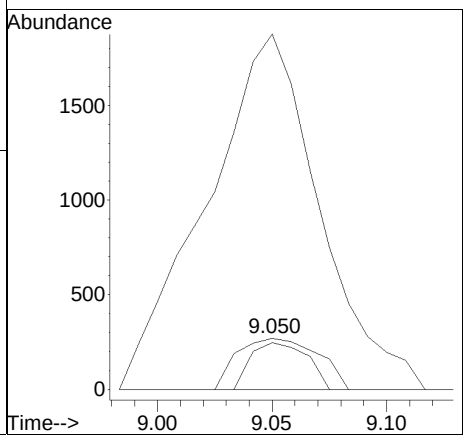


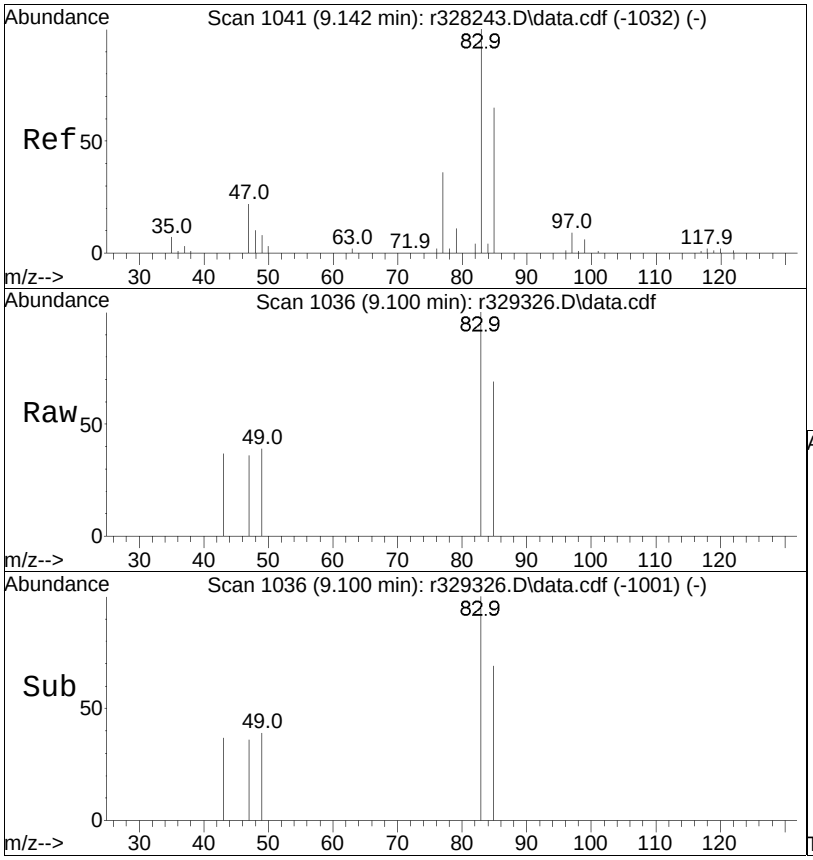


#38
Ethyl Acetate
Concen: 0.09 ppbV
RT: 9.050 min Scan# 1030
Delta R.T. -0.017 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 61 Resp: 662

Ion	Ratio	Lower	Upper
61	100		
70	91.5	77.5	116.3
43	694.8	765.5	1148.3#

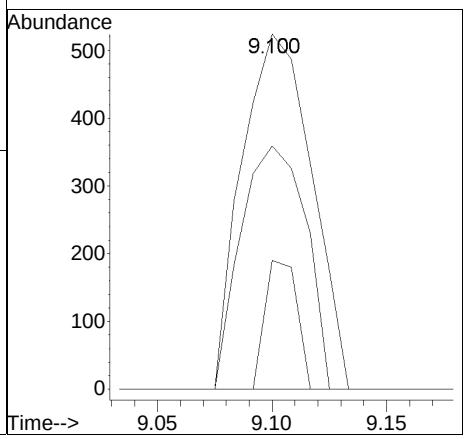


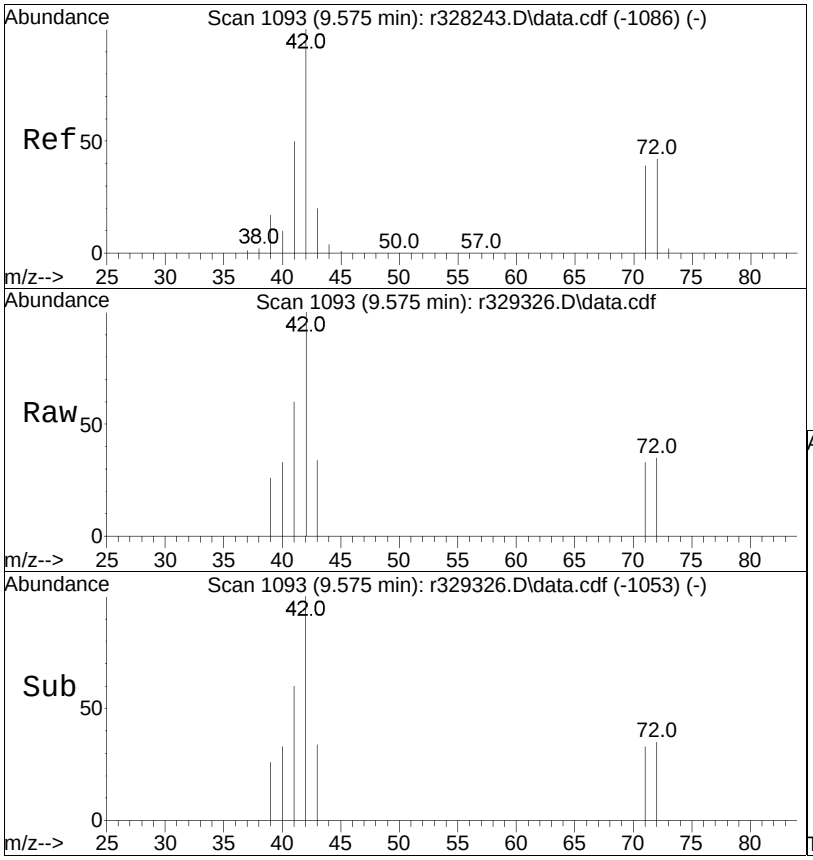


#39
chloroform
Concen: 0.04 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 83 Resp: 1109

Ion	Ratio	Lower	Upper
83	100		
85	68.5	52.2	78.4
47	36.3	17.4	26.2#

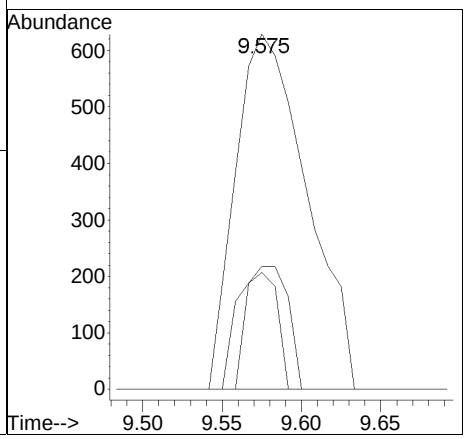


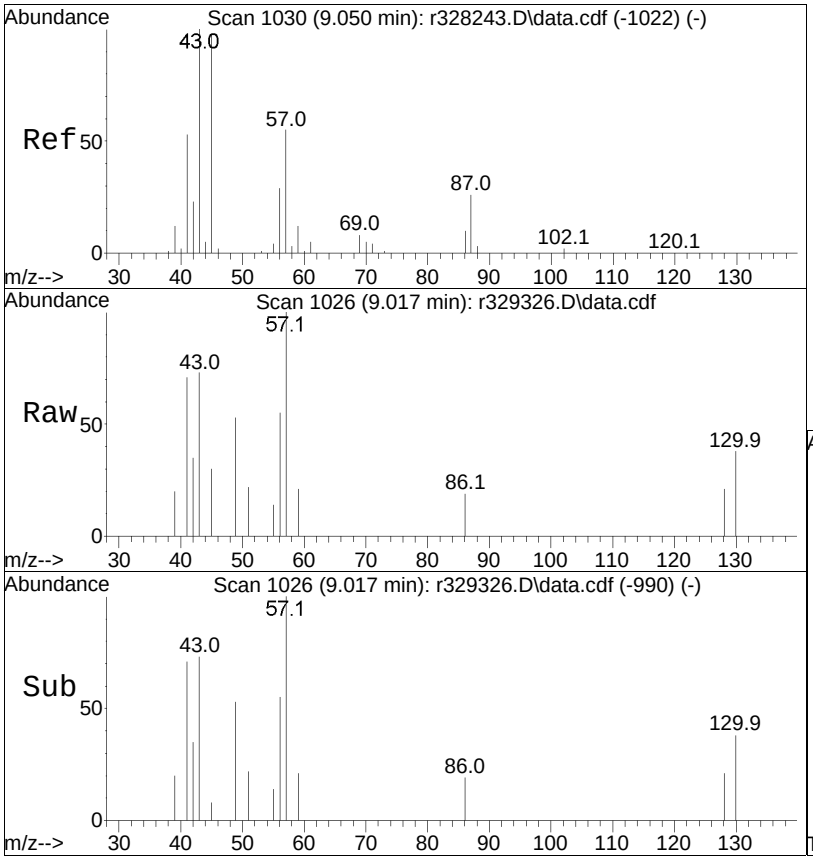


#40
Tetrahydrofuran
Concen: 0.08 ppbV
RT: 9.575 min Scan# 1093
Delta R.T. 0.000 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 42 Resp: 1973

Ion	Ratio	Lower	Upper
42	100		
71	32.9	31.4	47.0
72	34.7	33.4	50.2

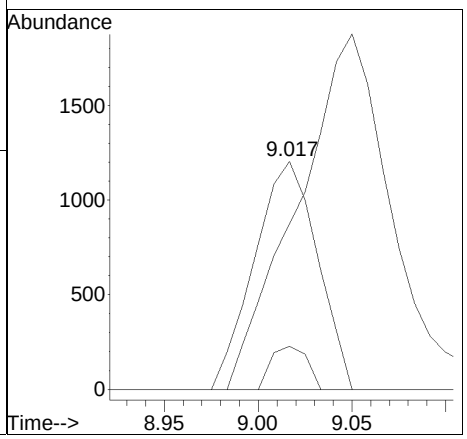


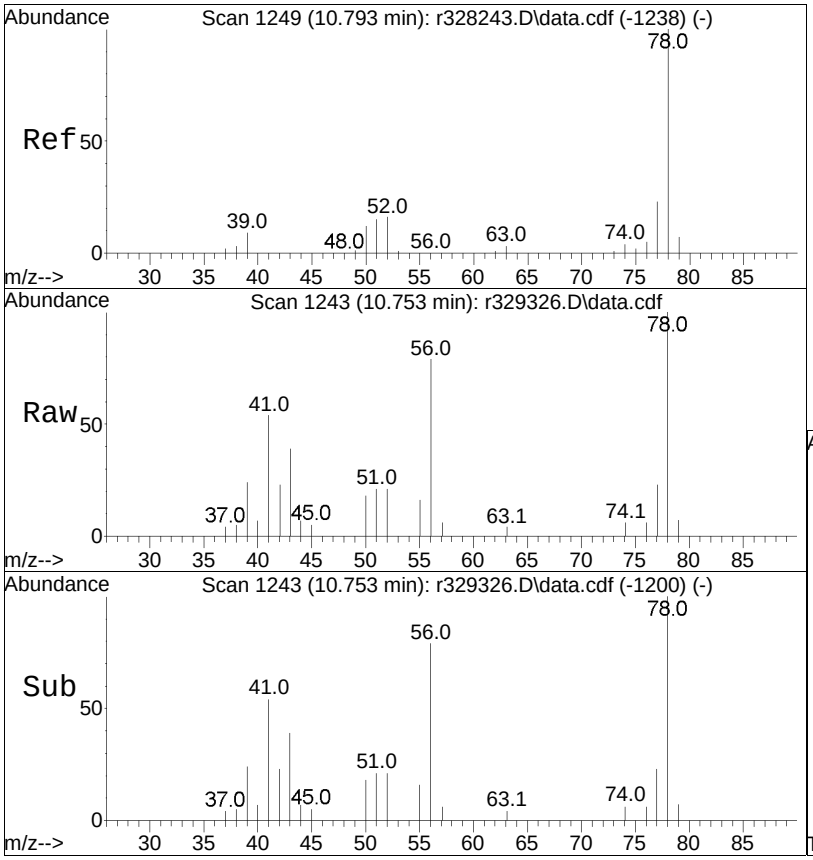


#44
hexane
Concen: 0.10 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 57 Resp: 2819

Ion	Ratio	Lower	Upper
57	100		
43	72.6	145.3	217.9#
86	18.9	14.3	21.5

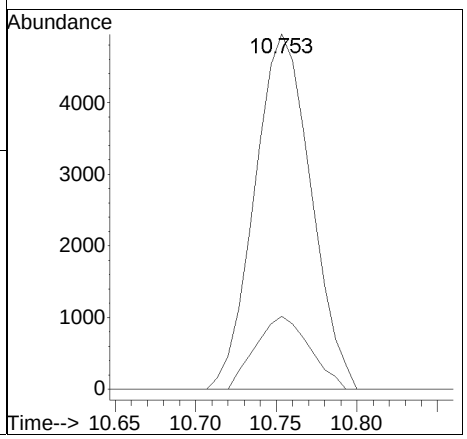


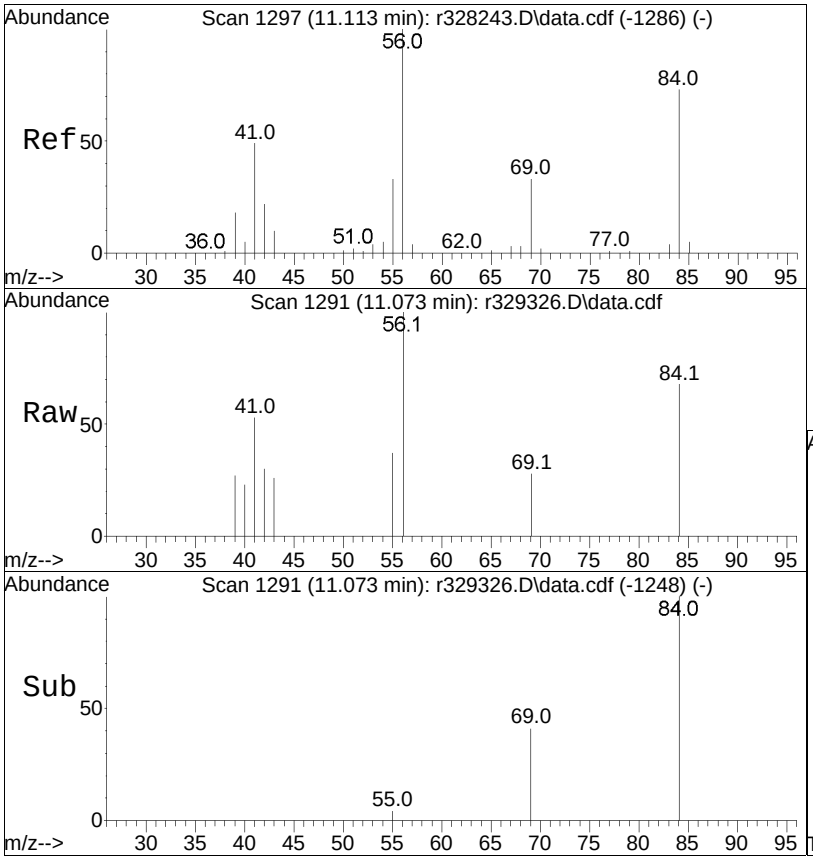


#50
benzene
Concen: 0.23 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 78 Resp: 12032

Ion	Ratio	Lower	Upper
78	100		
52	20.6	12.4	18.6#

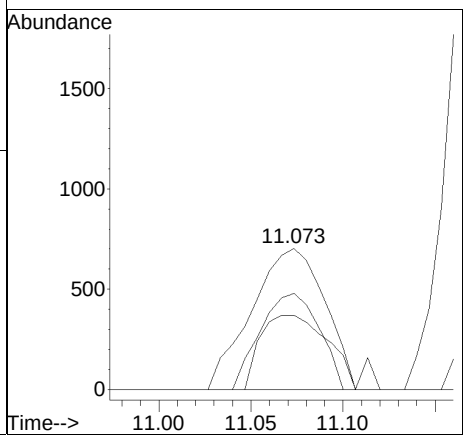


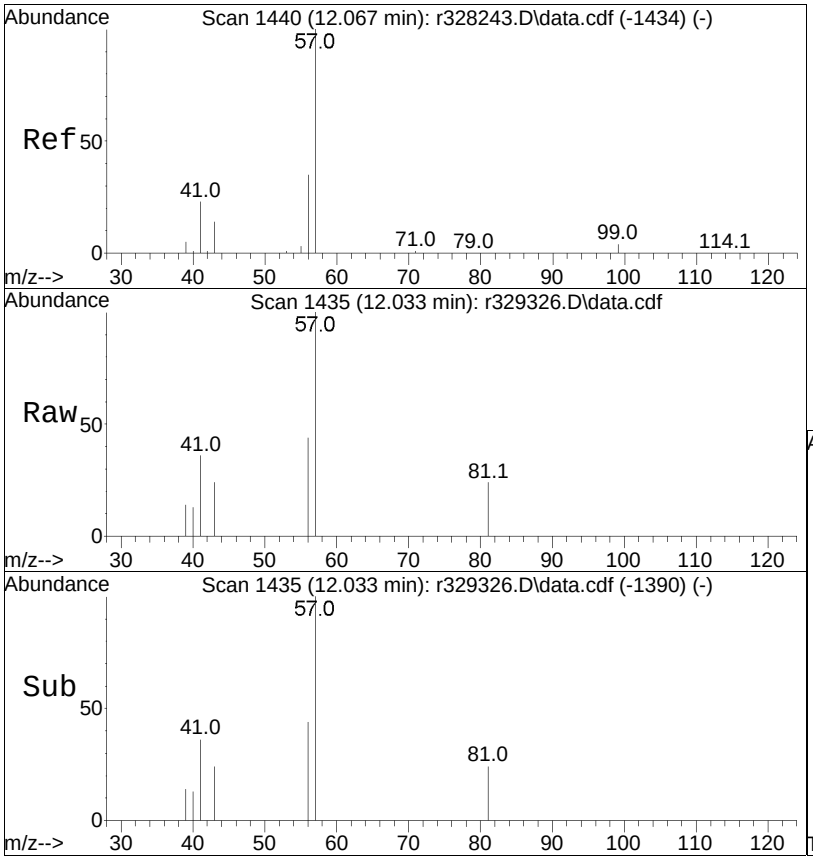


#53
cyclohexane
Concen: 0.07 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 56 Resp: 1941

Ion	Ratio	Lower	Upper
56	100		
84	68.1	58.7	88.1
41	52.6	39.6	59.4

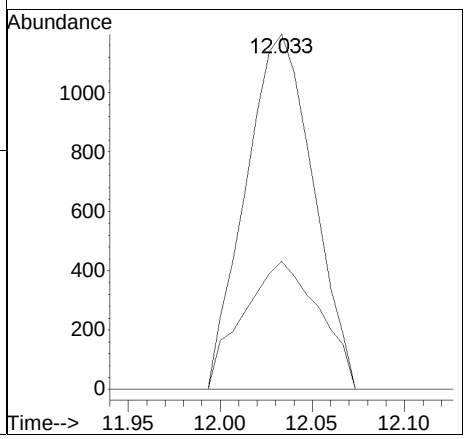


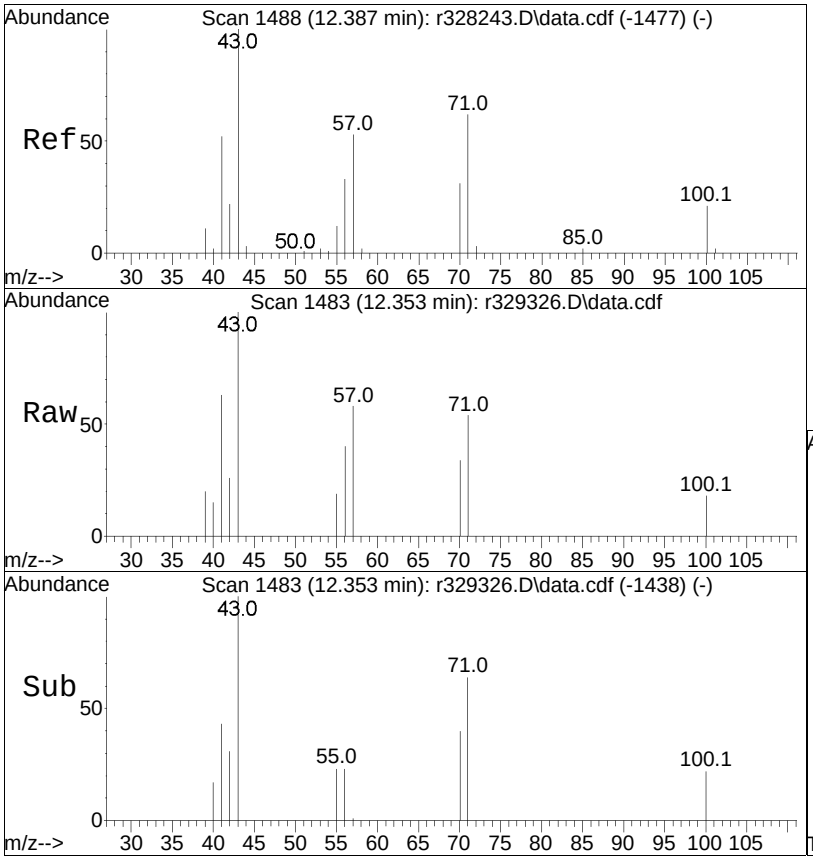


#60
2,2,4-trimethylpentane
Concen: 0.03 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 57 Resp: 3053

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	36.0	18.2	27.4#

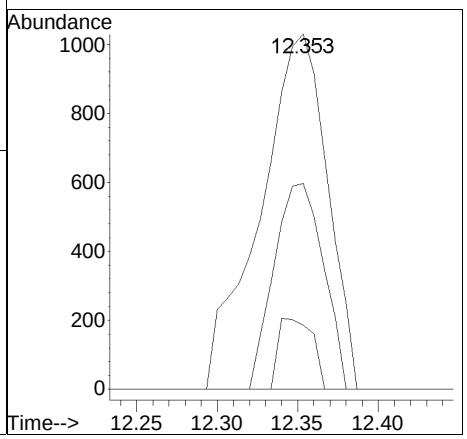


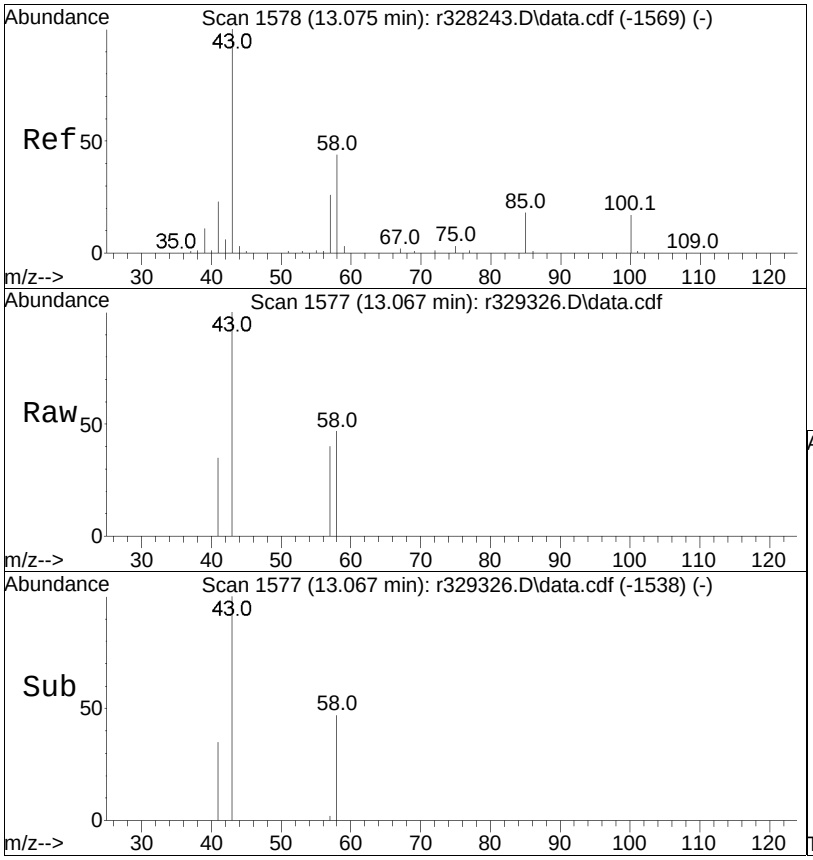


#62
heptane
Concen: 0.09 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 43 Resp: 2996

Ion	Ratio	Lower	Upper
43	100		
57	58.0	42.6	64.0
100	18.1	17.0	25.4

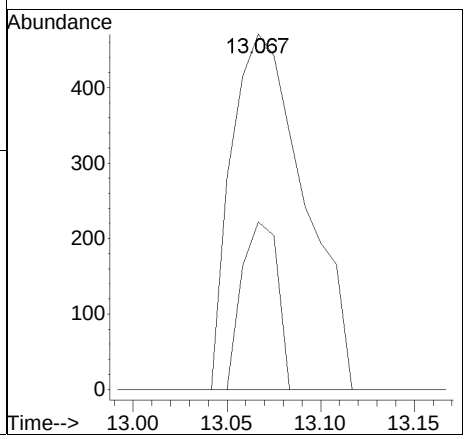


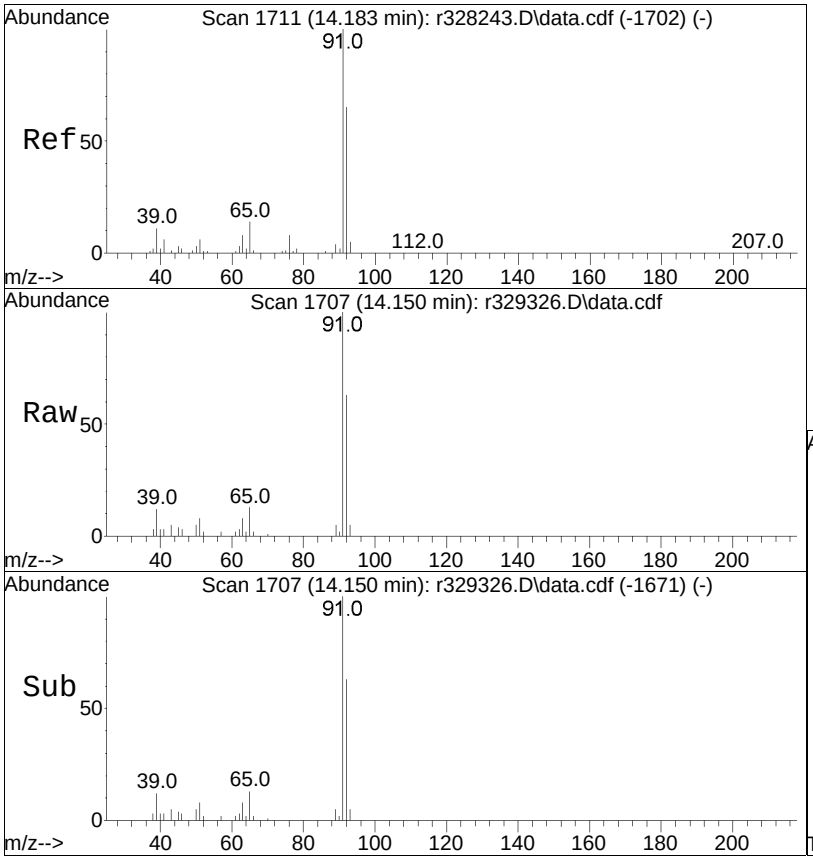


#64
4-methyl-2-pentanone
Concen: 0.03 ppbV
RT: 13.067 min Scan# 1577
Delta R.T. -0.008 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 43 Resp: 1276

Ion	Ratio	Lower	Upper
43	100		
58	47.1	35.4	53.2
100	0.0	13.8	20.8#

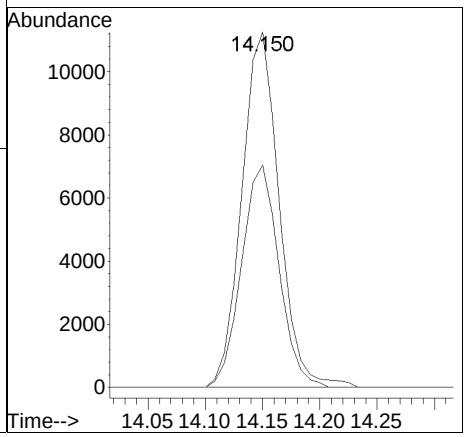


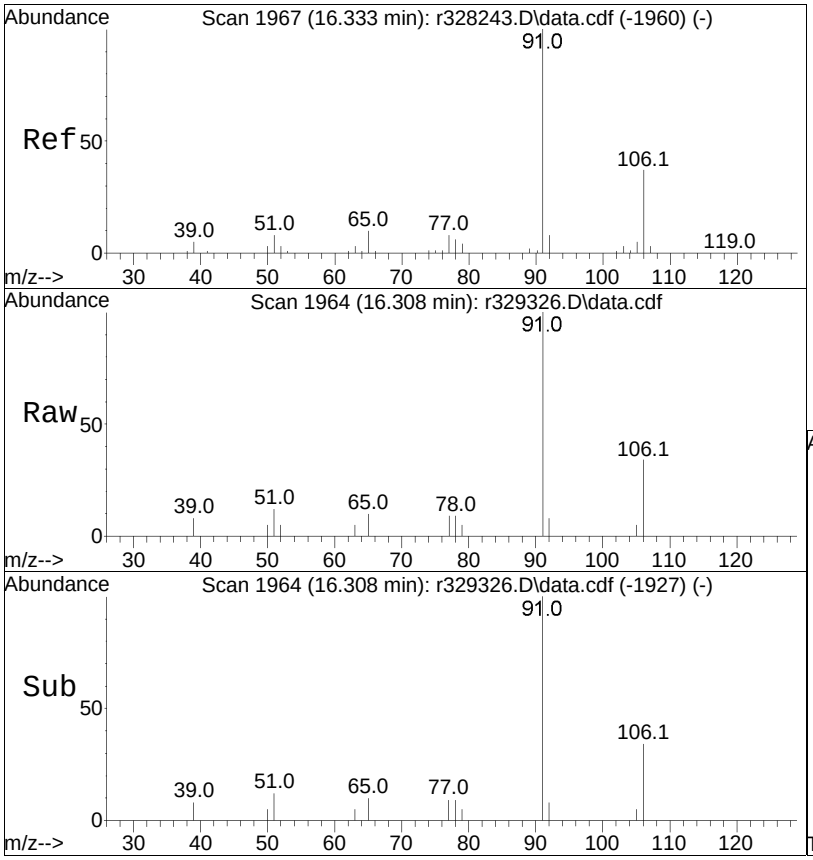


#68
toluene
Concen: 0.30 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 91 Resp: 25493

Ion	Ratio	Lower	Upper
91	100		
92	62.6	52.1	78.1

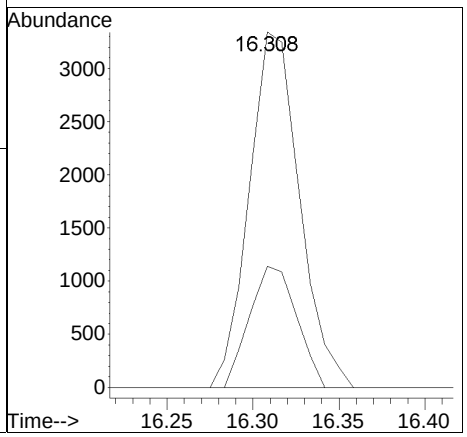


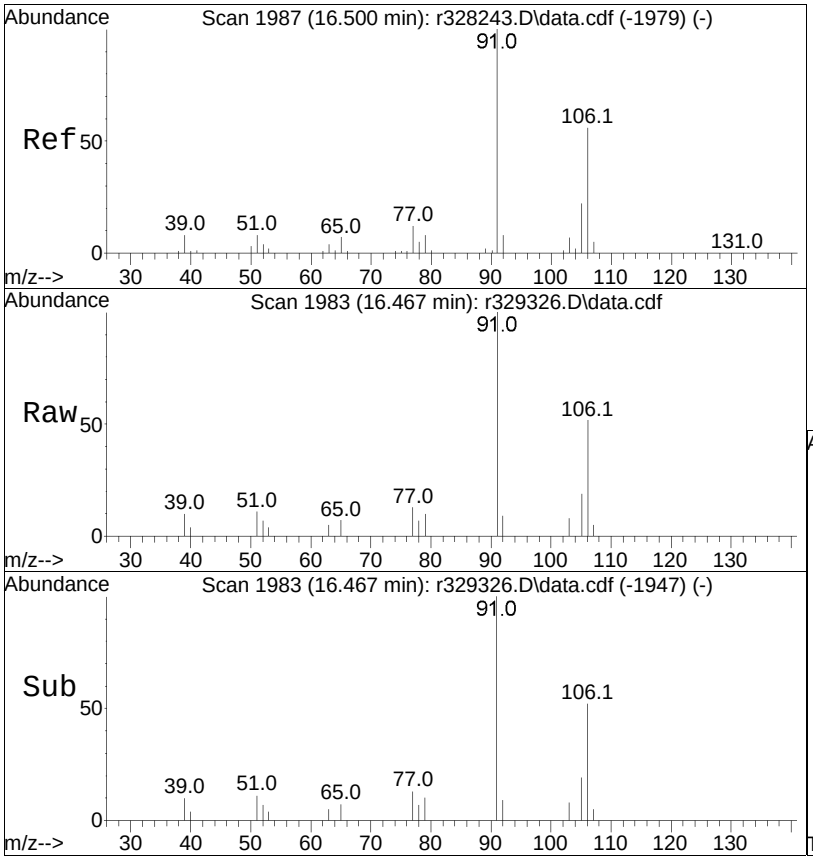


#81
ethylbenzene
Concen: 0.06 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 91 Resp: 6819

Ion	Ratio	Lower	Upper
91	100		
106	34.1	29.2	43.8

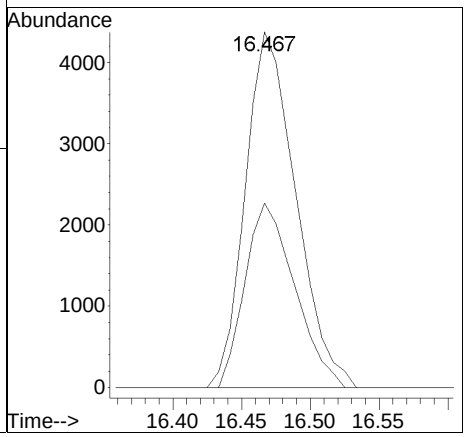


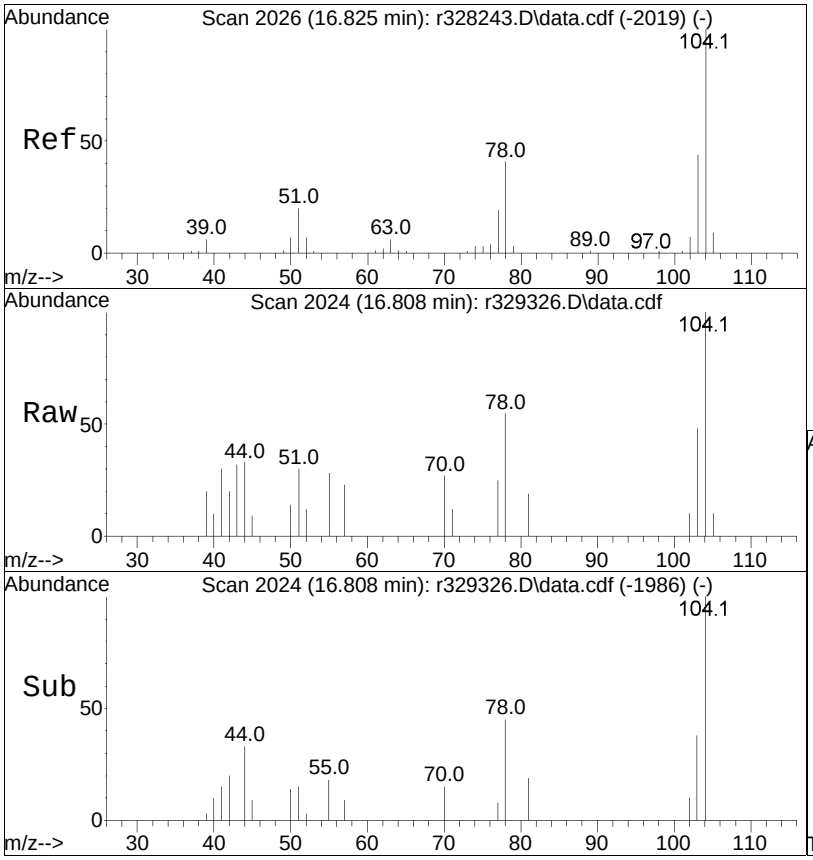


#83
m+p-xylene
Concen: 0.13 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 91 Resp: 11179

Ion	Ratio	Lower	Upper
91	100		
106	51.9	44.8	67.2

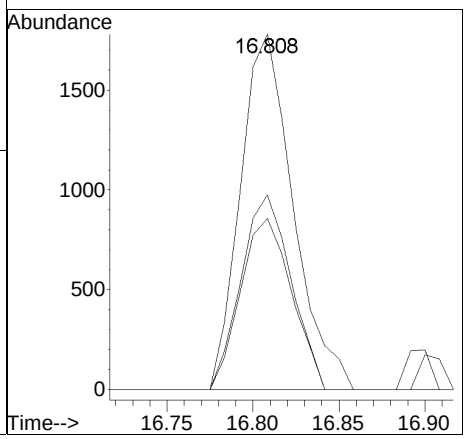


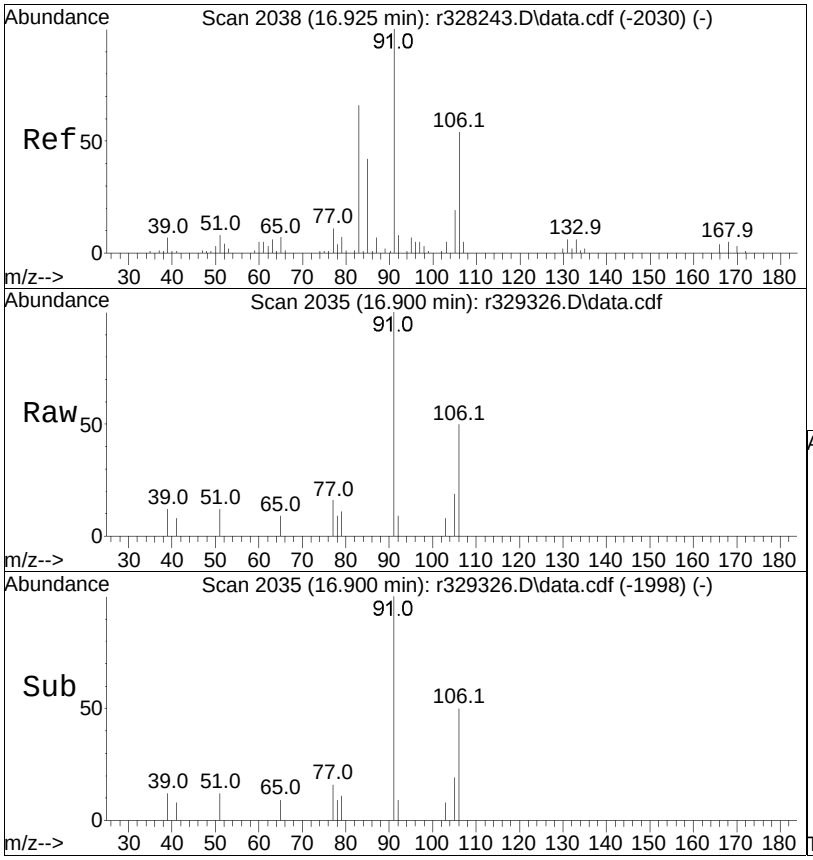


#85
styrene
Concen: 0.05 ppbV
RT: 16.808 min Scan# 2024
Delta R.T. -0.017 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion:104 Resp: 3803

Ion	Ratio	Lower	Upper
104	100		
103	48.1	34.8	52.2
78	54.7	32.6	48.8#

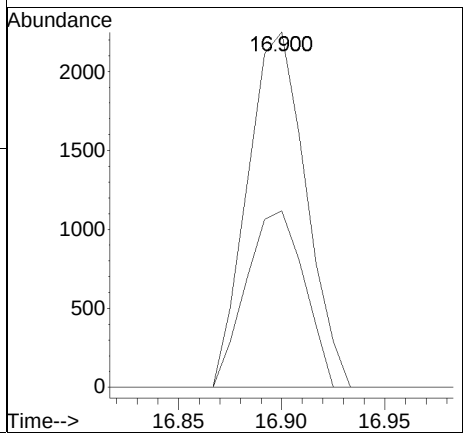




#87
o-xylene
Concen: 0.05 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329326.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion: 91 Resp: 4423

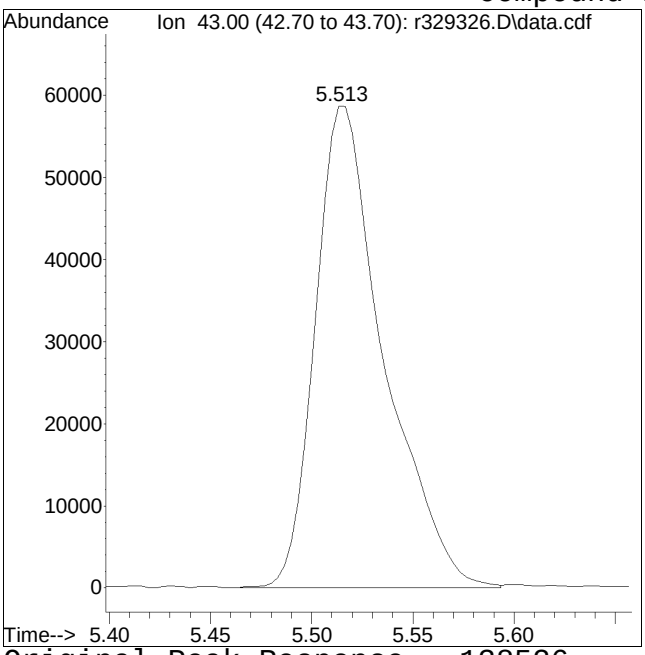
Ion	Ratio	Lower	Upper
91	100		
106	49.7	43.0	64.6



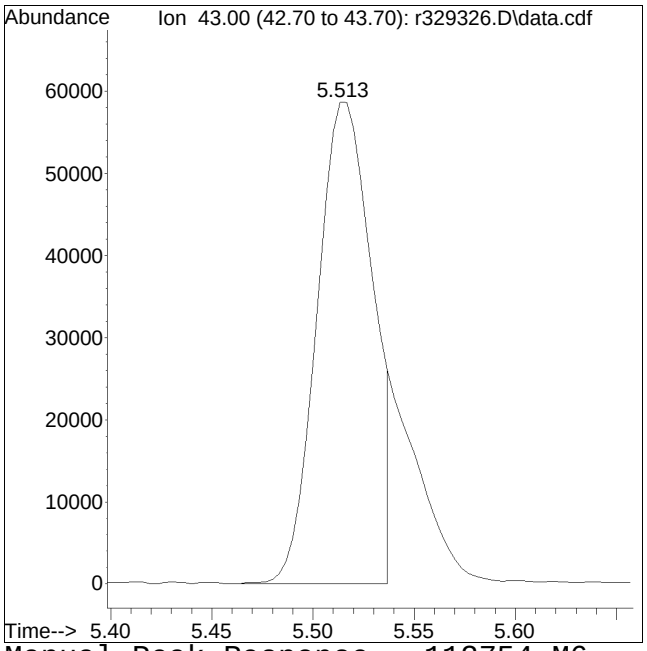
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TFS3_231230.M
Data File : r329326.D Operator : AIRPIANO3:BJB
Date Inj'd : 2/26/2020 0:2: 4 Instrument :
Sample : L2409224-07,3,250,250 Quant Date : 2/26/2024 6:11 am

Compound #19: acetone



Original Peak Response = 138526



Manual Peak Response = 112754 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329327.D
Acq On : 26 Feb 2024 1:14 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-08,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:00 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	236526	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		84.41%	
43) 1,4-difluorobenzene	11.180	114	620435	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		80.75%	
67) chlorobenzene-D5	15.917	54	122143	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		85.34%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15477	0.562	ppbV	99
6) chloromethane	4.044	50	8046	0.593	ppbV	96
7) Freon-114	4.146		0	N.D.		
10) 1,3-butadiene	4.410		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.998	31	313767	33.295	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.523	43	38544M6	1.529	ppbV	
21) trichlorofluoromethane	5.703	101	5807	0.203	ppbV	99
22) isopropyl alcohol	5.813	45	32741	1.065	ppbV	99
27) tertiary butyl alcohol	6.502		0	N.D.		
28) methylene chloride	6.538	49	4416	0.240	ppbV	91
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.844		0	N.D.		
31) Freon 113	6.838	101	1871	0.058	ppbV #	91
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	8.292	43	4013	0.099	ppbV #	95
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	9.100		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.942		0	N.D.		
44) hexane	9.017	57	1942	0.070	ppbV #	24
50) benzene	10.753	78	13006	0.255	ppbV #	89
53) cyclohexane	11.073	56	900	0.031	ppbV	87
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329327.D
Acq On : 26 Feb 2024 1:14 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-08,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:00 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

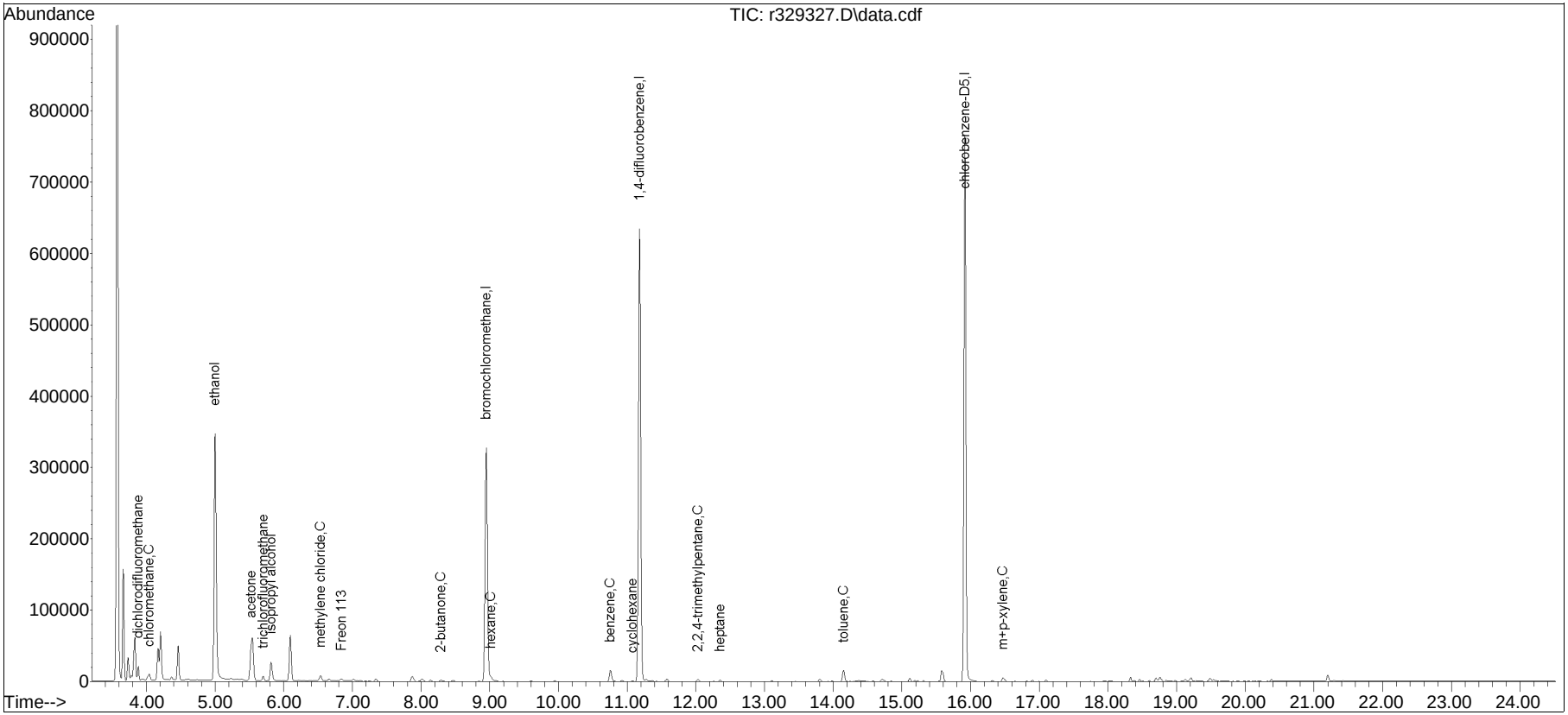
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	3406	0.036	ppbV #	88
62) heptane	12.353	43	1414	0.043	ppbV #	81
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.100		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	14519	0.172	ppbV	96
72) 2-hexanone	14.375		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.317		0	N.D.		
83) m+p-xylene	16.467	91	5532	0.066	ppbV	95
84) bromoform	0.000		0	N.D.		
85) styrene	16.817		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900		0	N.D.		
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	18.383		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	18.583		0	N.D.		
103) 1,4-dichlorobenzene	18.583		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

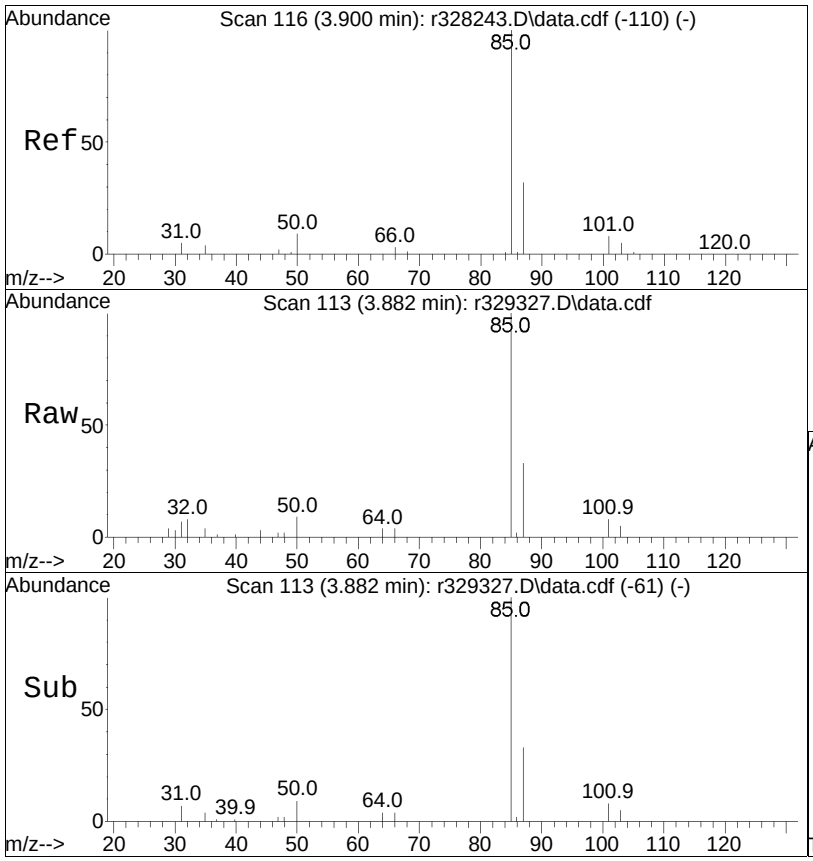
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329327.D
Acq On : 26 Feb 2024 1:14 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-08,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:00 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

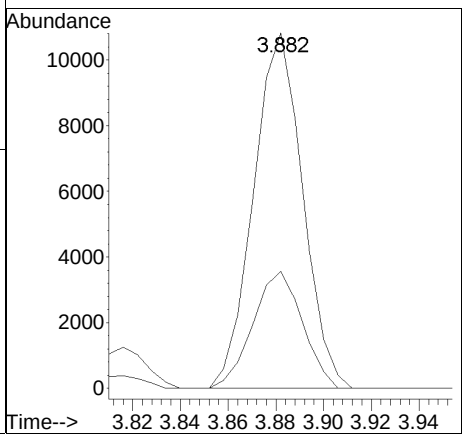


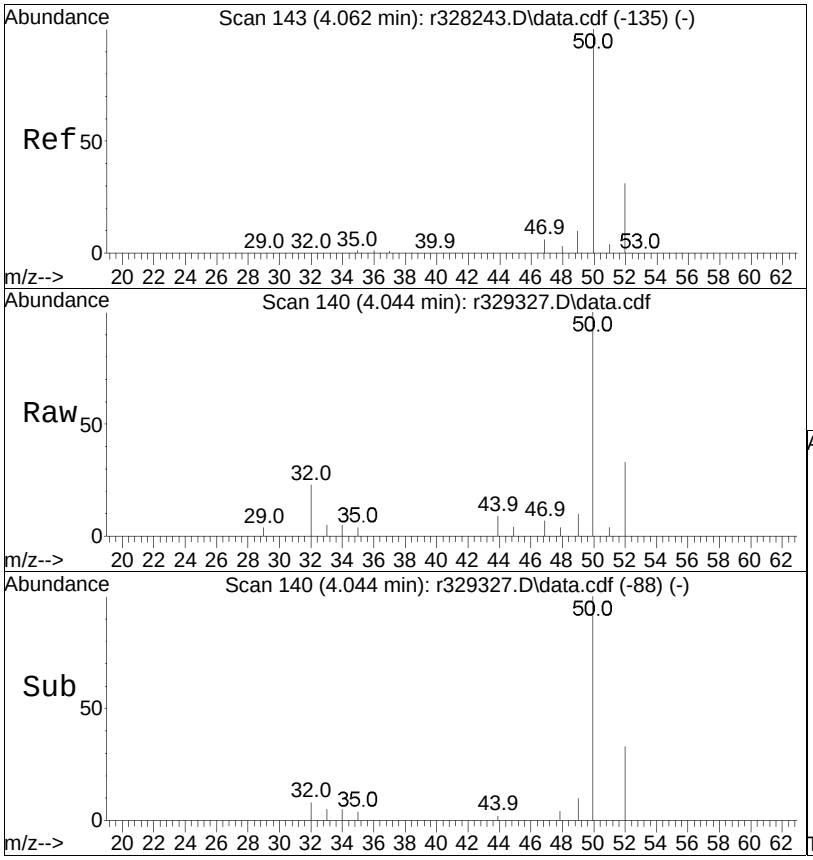


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 85 Resp: 15477

Ion	Ratio	Lower	Upper
85	100		
87	32.9	25.7	38.5

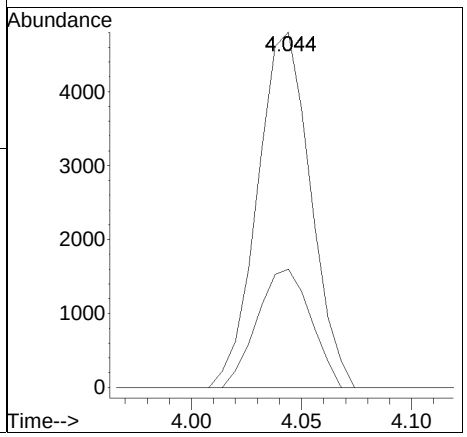


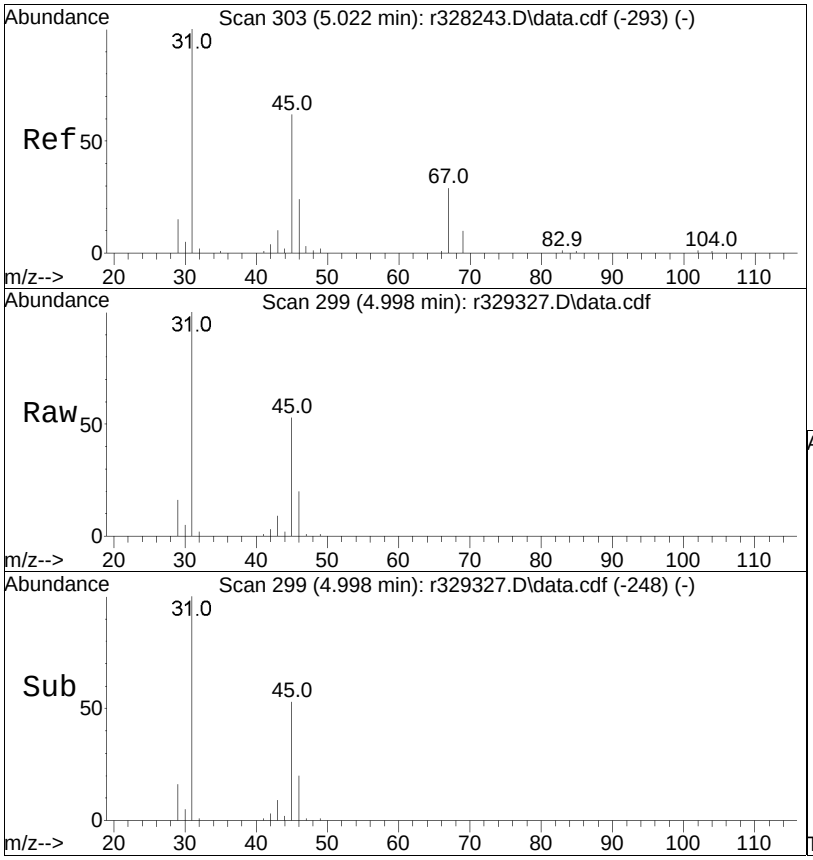


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 50 Resp: 8046

Ion	Ratio	Lower	Upper
50	100		
52	33.3	25.0	37.6

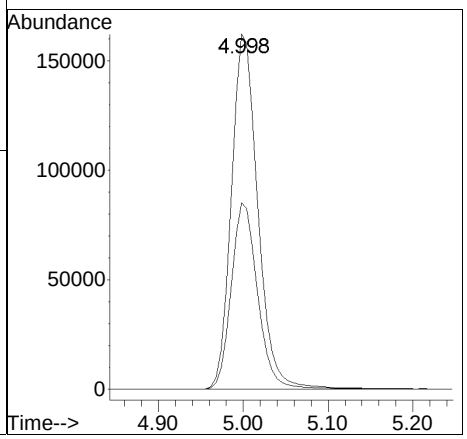


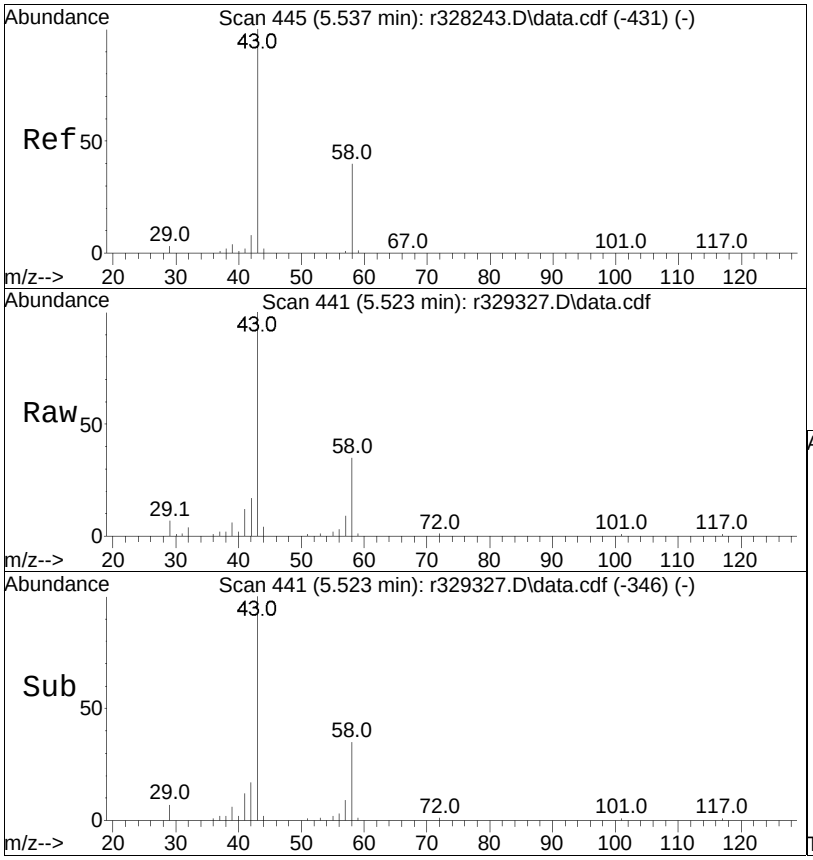


#15
ethanol
Concen: 33.29 ppbV
RT: 4.998 min Scan# 299
Delta R.T. -0.024 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 31 Resp: 313767

Ion	Ratio	Lower	Upper
31	100		
45	52.5	49.8	74.6

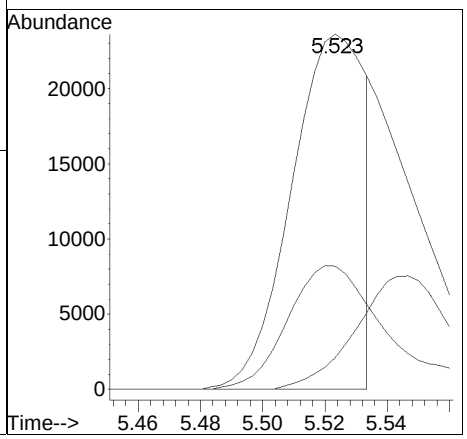


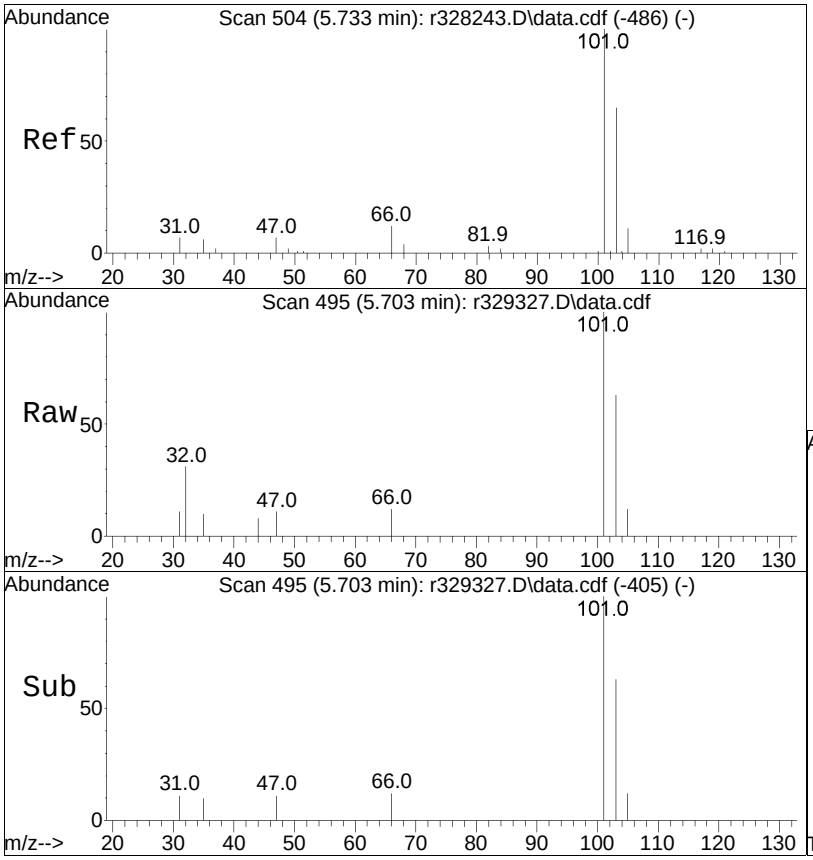


#19
acetone
Concen: 1.53 ppbV m
RT: 5.523 min Scan# 441
Delta R.T. -0.013 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 43 Resp: 38544

Ion	Ratio	Lower	Upper
43	100		
58	34.7	31.9	47.9
57	9.0	0.9	1.3#

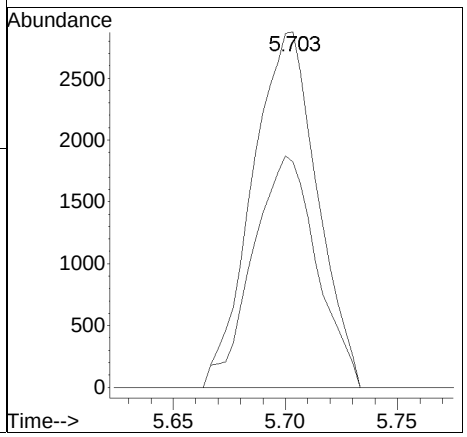


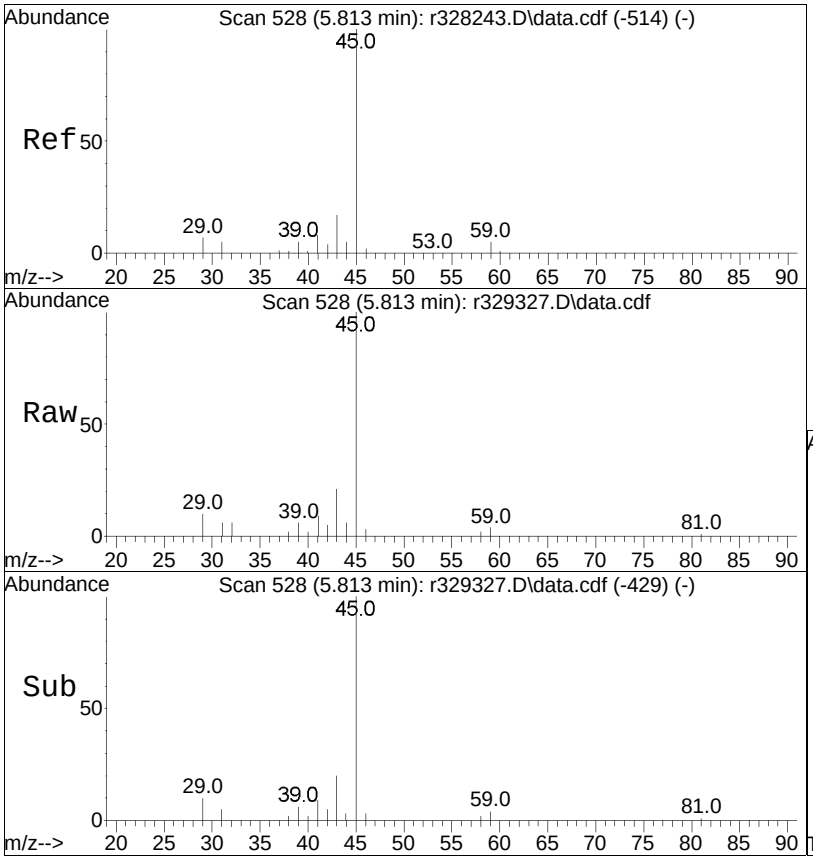


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.703 min Scan# 495
Delta R.T. -0.030 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion:101 Resp: 5807

Ion	Ratio	Lower	Upper
101	100		
103	63.5	51.7	77.5

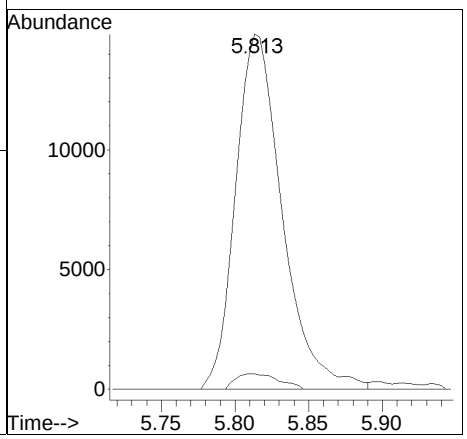


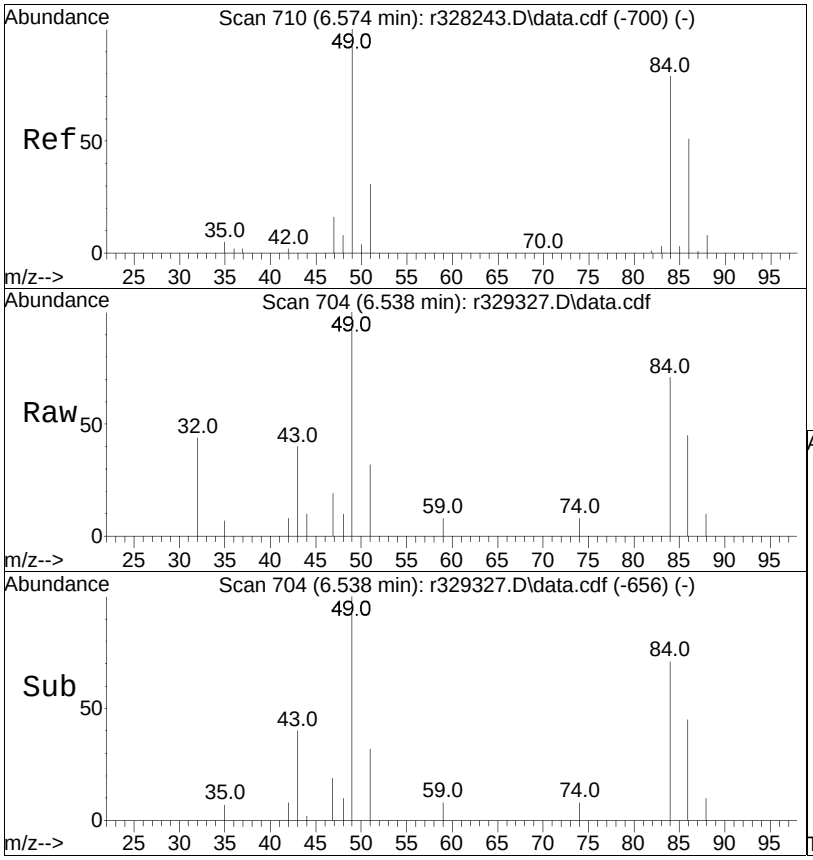


#22
isopropyl alcohol
Concen: 1.06 ppbV
RT: 5.813 min Scan# 528
Delta R.T. 0.000 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 45 Resp: 32741

Ion	Ratio	Lower	Upper
45	100		
59	4.3	3.7	5.5

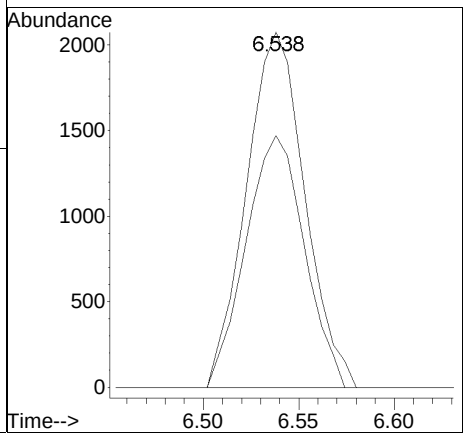


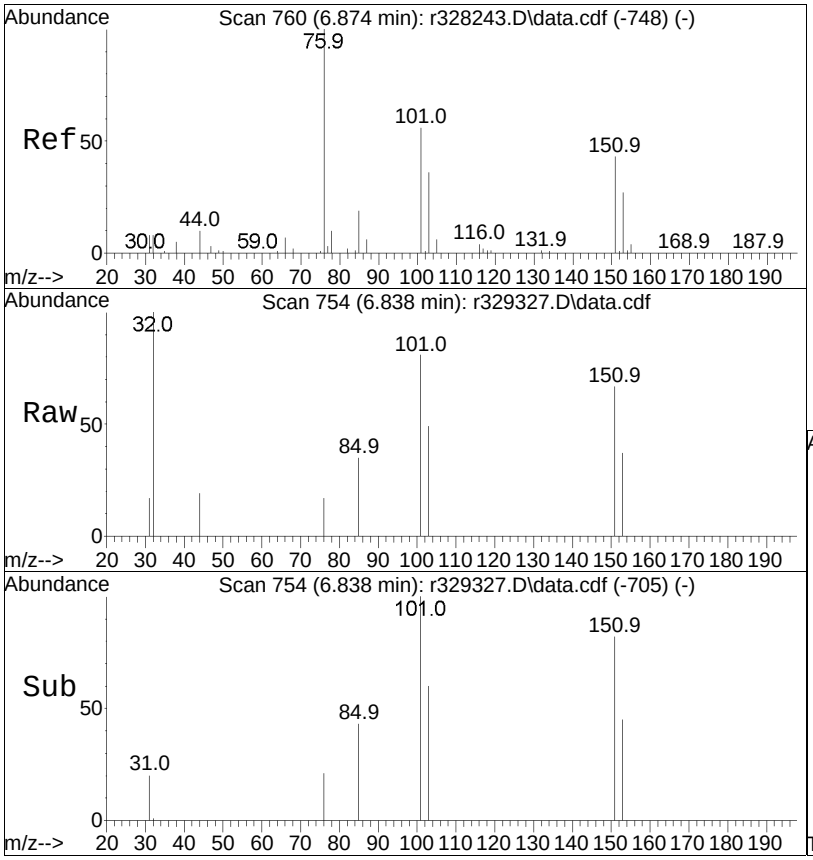


#28
methylene chloride
Concen: 0.24 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 49 Resp: 4416

Ion	Ratio	Lower	Upper
49	100		
84	70.8	63.3	94.9

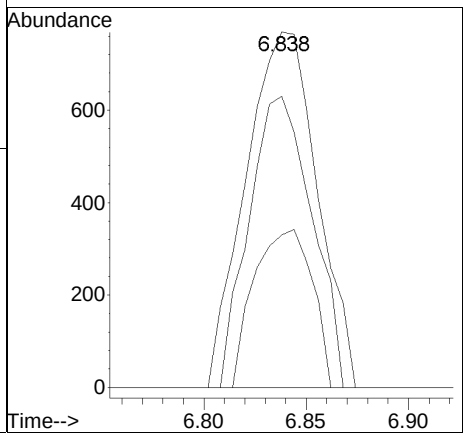


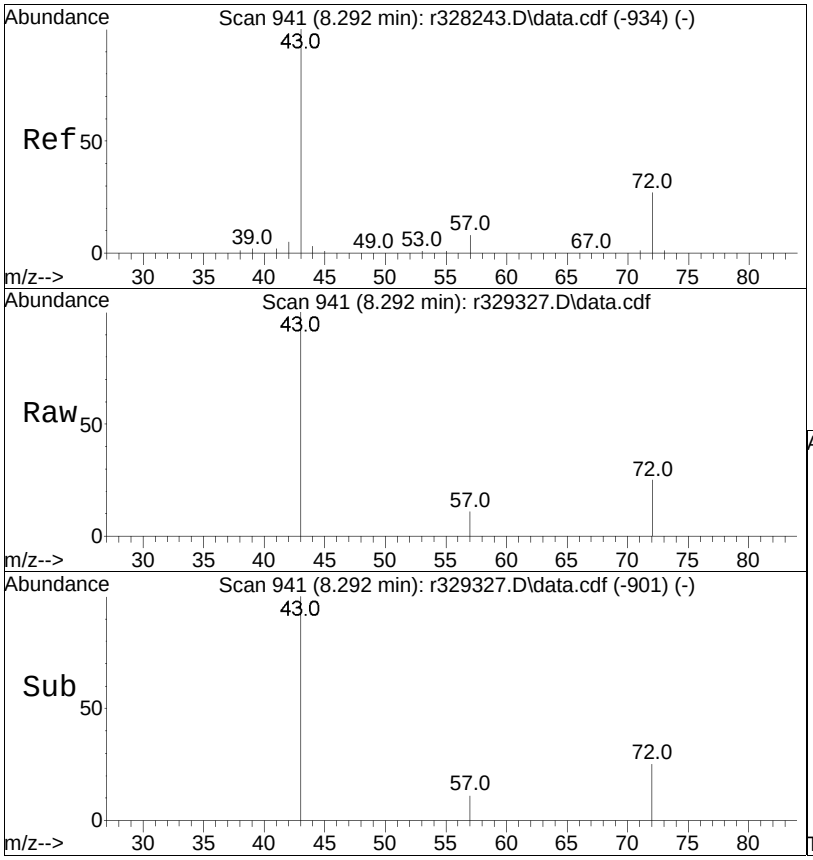


#31
Freon 113
Concen: 0.06 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion:101 Resp: 1871

Ion	Ratio	Lower	Upper
101	100		
85	42.9	27.9	41.9#
151	81.9	61.0	91.4

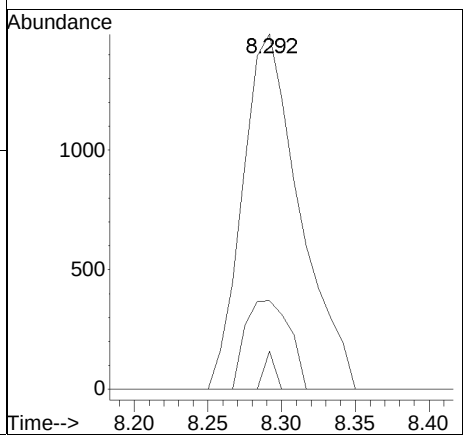


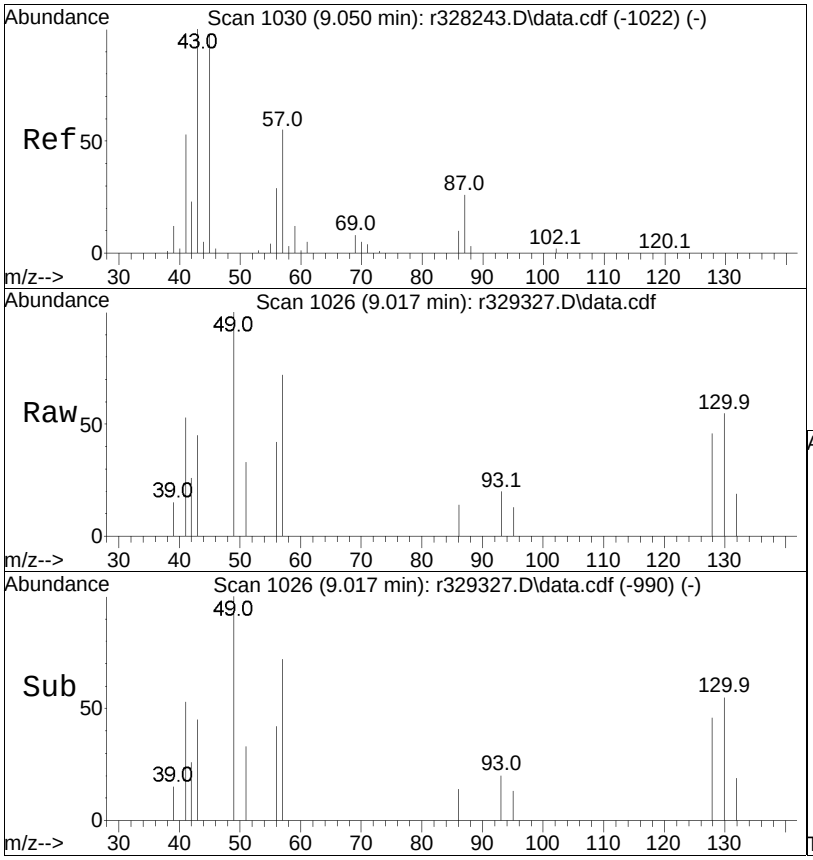


#36
2-butanone
Concen: 0.10 ppbV
RT: 8.292 min Scan# 941
Delta R.T. 0.000 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 43 Resp: 4013

Ion	Ratio	Lower	Upper
43	100		
72	25.0	21.9	32.9
57	10.7	6.6	9.8#

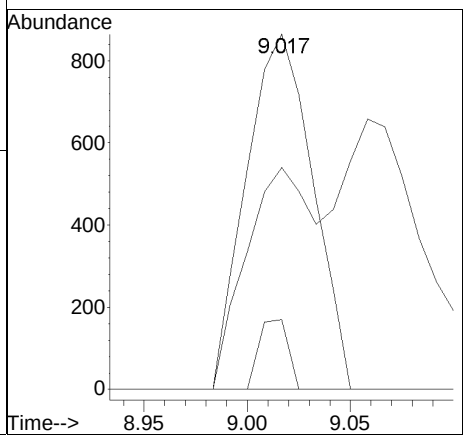


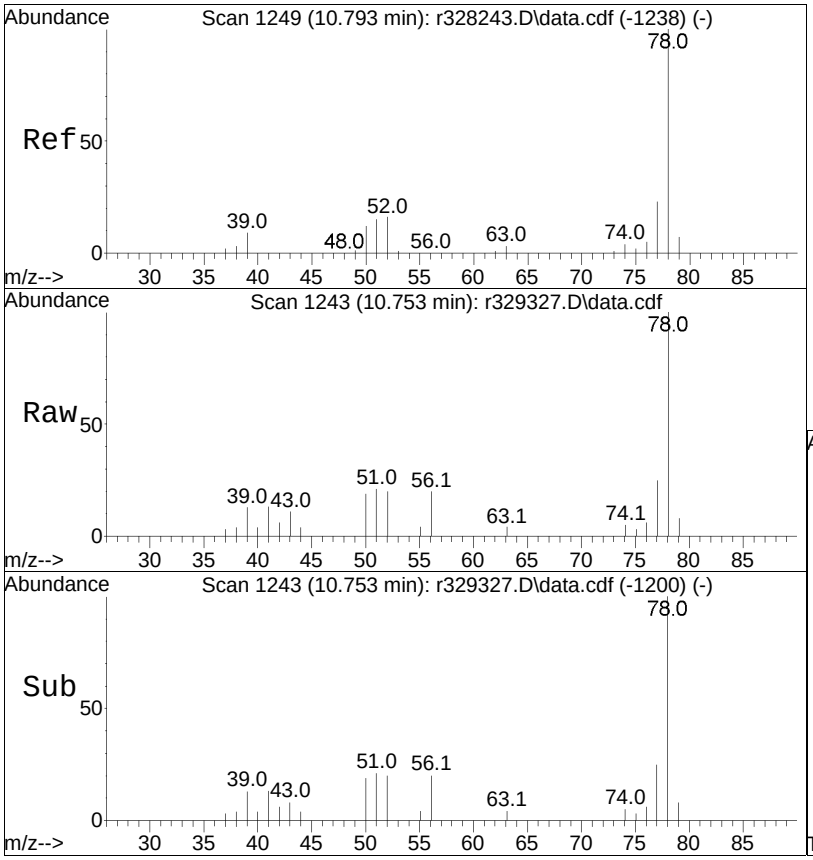


#44
hexane
Concen: 0.07 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 57 Resp: 1942

Ion	Ratio	Lower	Upper
57	100		
43	62.4	145.3	217.9#
86	19.7	14.3	21.5

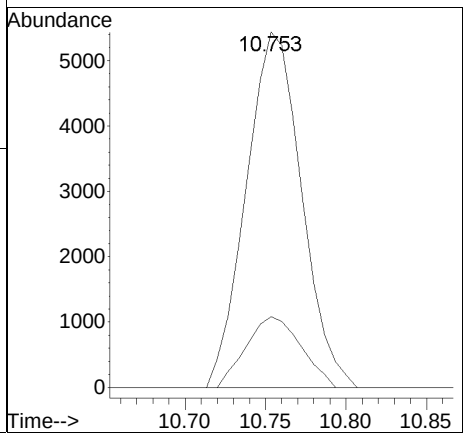


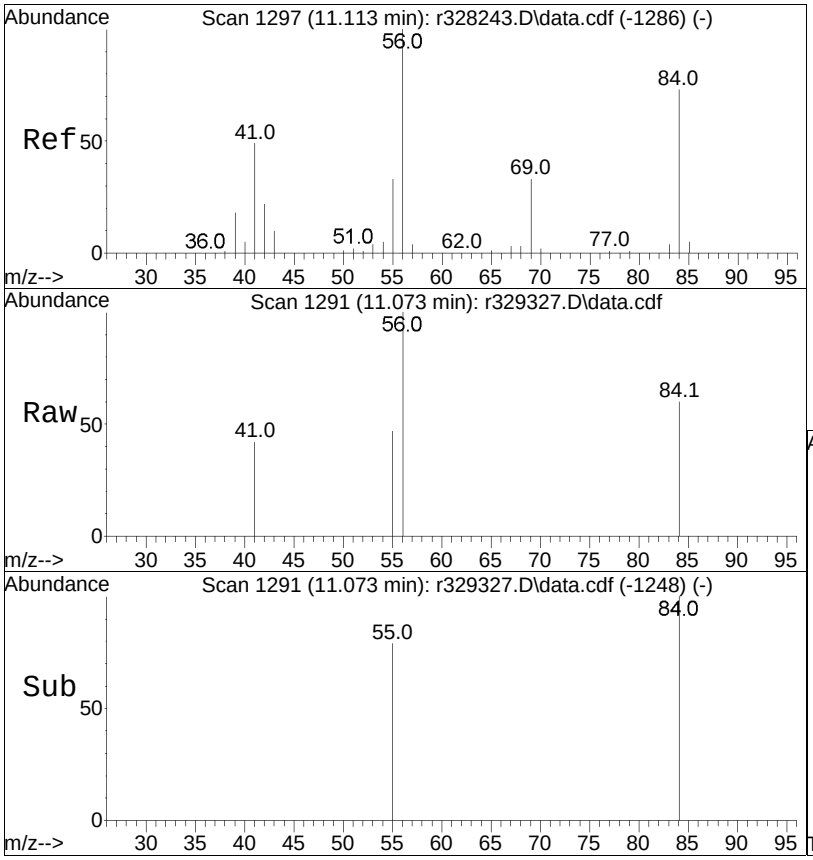


#50
benzene
Concen: 0.25 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 78 Resp: 13006

Ion	Ratio	Lower	Upper
78	100		
52	19.9	12.4	18.6#

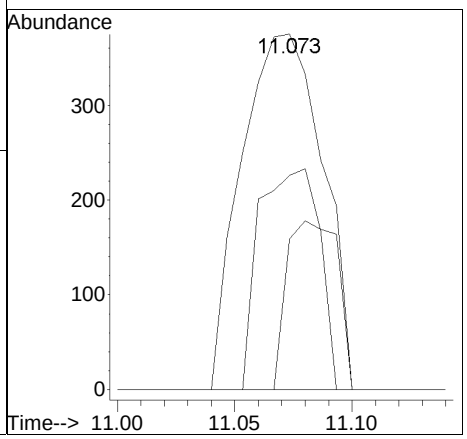


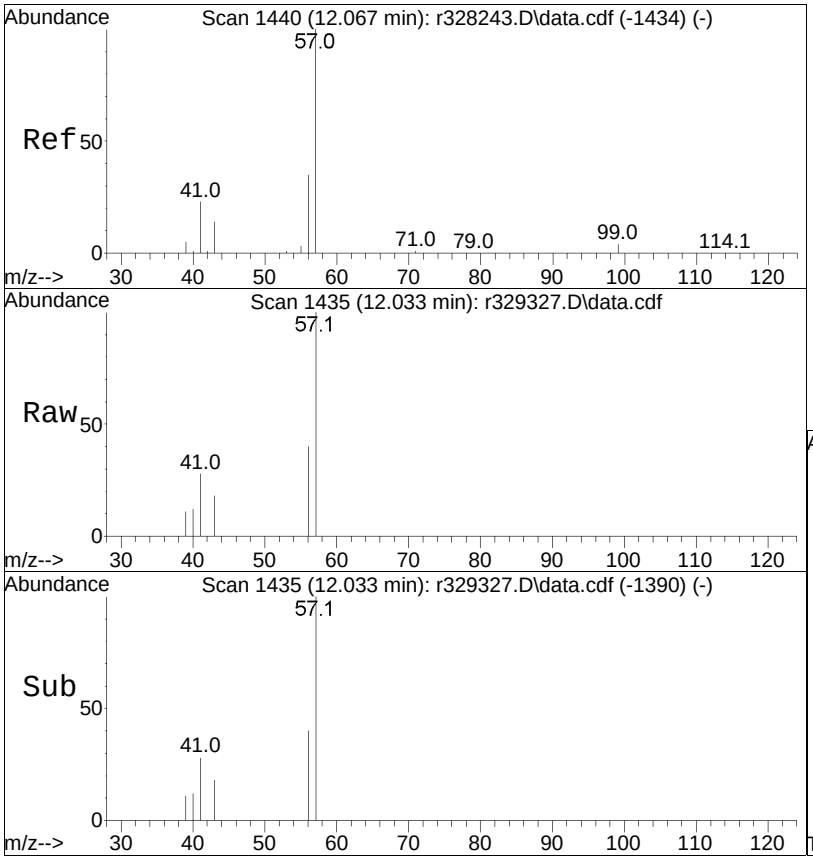


#53
cyclohexane
Concen: 0.03 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 56 Resp: 900

Ion	Ratio	Lower	Upper
56	100		
84	60.3	58.7	88.1
41	42.4	39.6	59.4

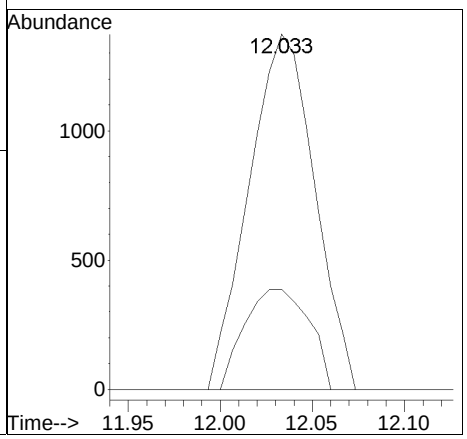


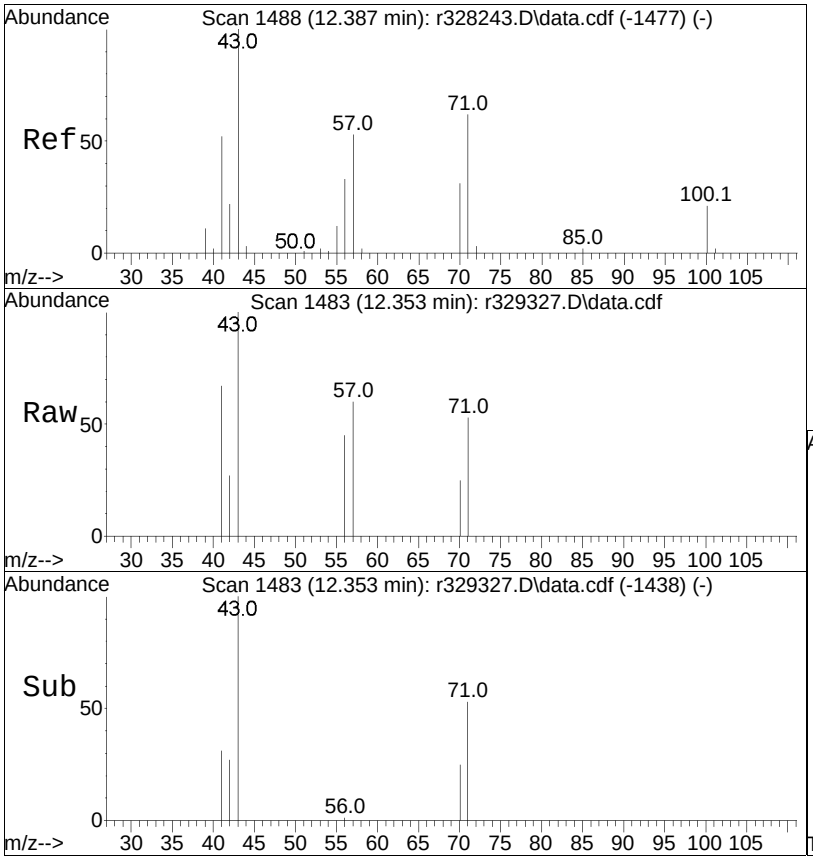


#60
2,2,4-trimethylpentane
Concen: 0.04 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 57 Resp: 3406

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	28.1	18.2	27.4#

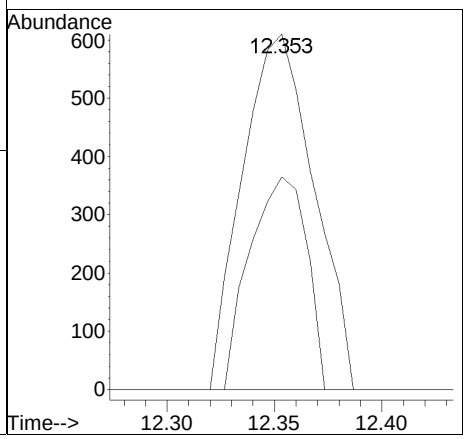


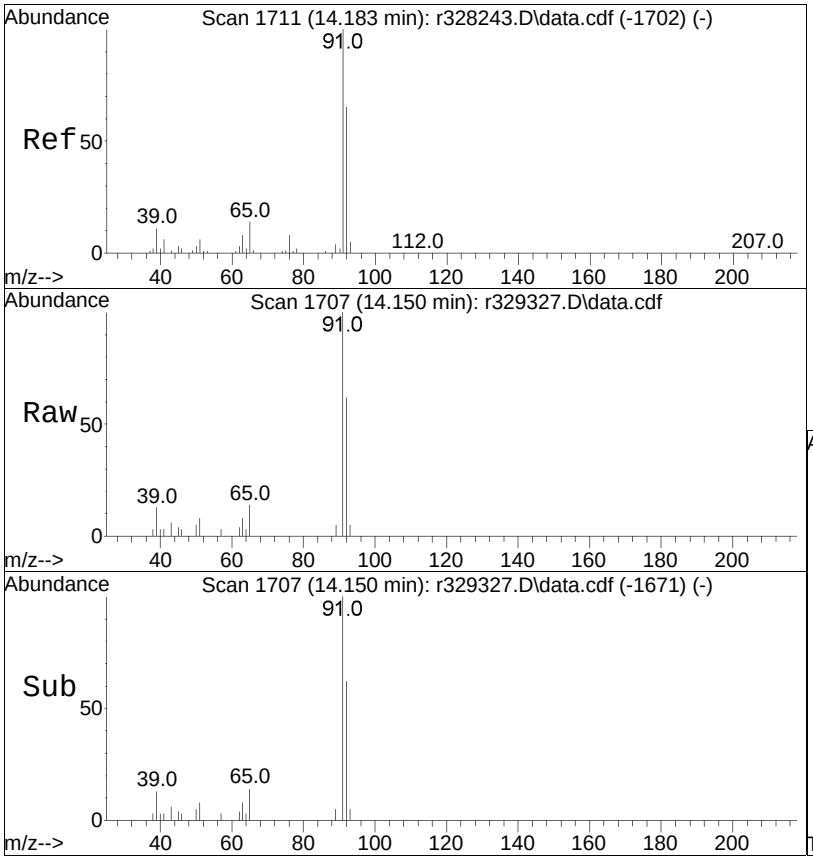


#62
heptane
Concen: 0.04 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 43 Resp: 1414

Ion	Ratio	Lower	Upper
43	100		
57	59.8	42.6	64.0
100	0.0	17.0	25.4#

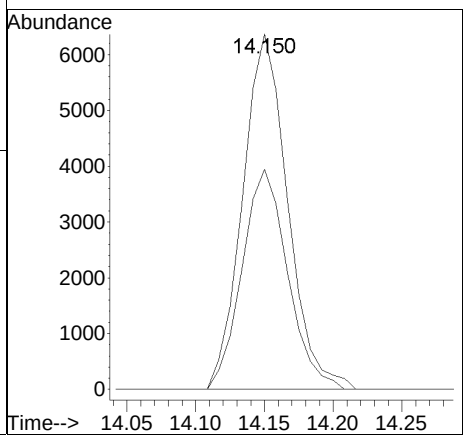


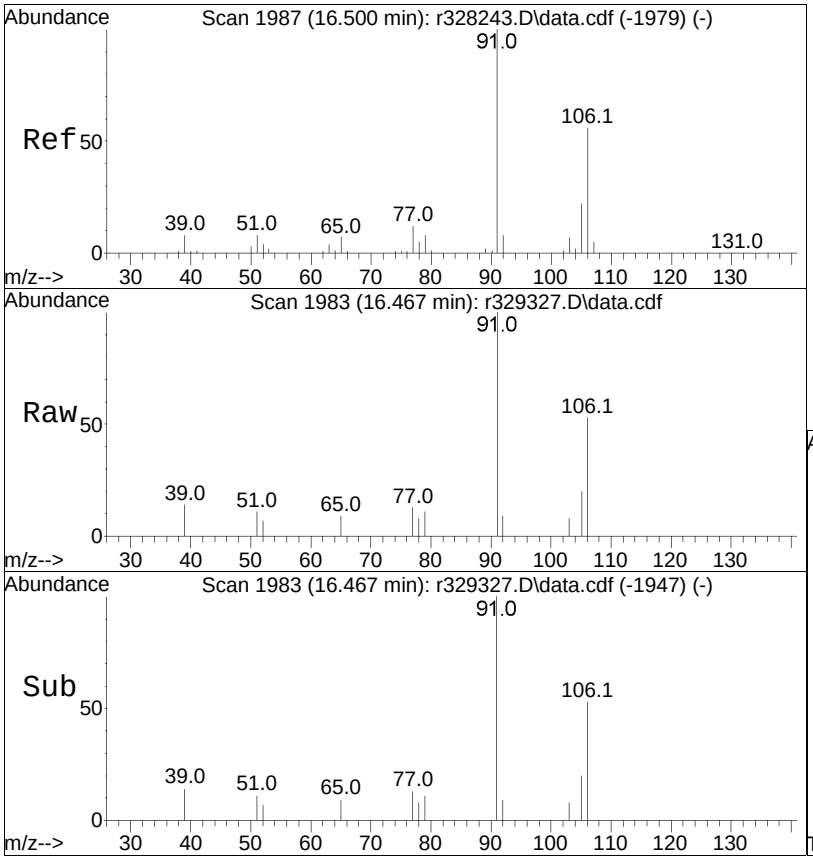


#68
toluene
Concen: 0.17 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 91 Resp: 14519

Ion	Ratio	Lower	Upper
91	100		
92	62.0	52.1	78.1

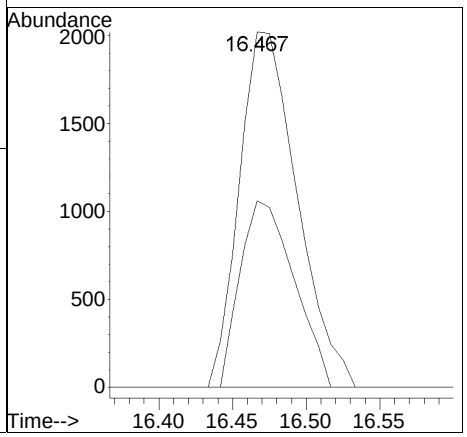




#83
m+p-xylene
Concen: 0.07 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329327.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion: 91 Resp: 5532

Ion	Ratio	Lower	Upper
91	100		
106	52.5	44.8	67.2

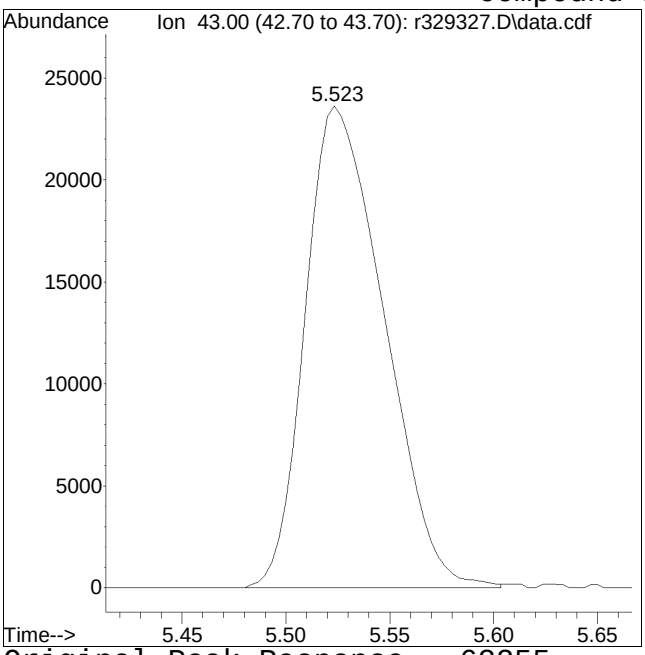


Manual Integration Report

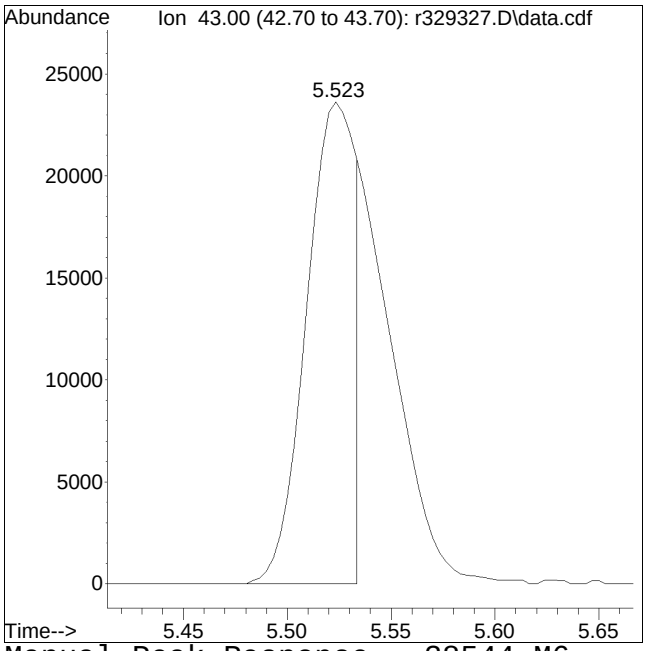
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329327.D
Date Inj'd : 2/26/2020 0:1: 4
Sample : L2409224-08,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:13 am

Compound #19: acetone



Original Peak Response = 62255



Manual Peak Response = 38544 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329328.D
Acq On : 26 Feb 2024 1:55 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-09,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:22 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	234681	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		83.75%	
43) 1,4-difluorobenzene	11.180	114	616653	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		80.26%	
67) chlorobenzene-D5	15.917	54	121111	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		84.62%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15331	0.561	ppbV	99
6) chloromethane	4.044	50	8244	0.612	ppbV	99
7) Freon-114	4.146		0	N.D.		
10) 1,3-butadiene	4.410		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.998	31	543986	58.178	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.520	43	70491M6	2.818	ppbV	
21) trichlorofluoromethane	5.700	101	6273	0.221	ppbV	100
22) isopropyl alcohol	5.810	45	44699	1.465	ppbV	99
27) tertiary butyl alcohol	6.496	59	2193	0.060	ppbV #	71
28) methylene chloride	6.538	49	4483	0.245	ppbV	89
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	6.838	101	2458	0.077	ppbV #	95
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	8.283	43	4510	0.112	ppbV	96
38) Ethyl Acetate	9.058	61	495	0.071	ppbV #	24
39) chloroform	9.100		0	N.D.		
40) Tetrahydrofuran	9.600		0	N.D.		
42) 1,2-dichloroethane	9.942		0	N.D.		
44) hexane	9.017	57	1894	0.068	ppbV #	28
50) benzene	10.753	78	13988	0.276	ppbV	93
53) cyclohexane	11.073	56	914	0.031	ppbV #	85
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329328.D
Acq On : 26 Feb 2024 1:55 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-09,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:22 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

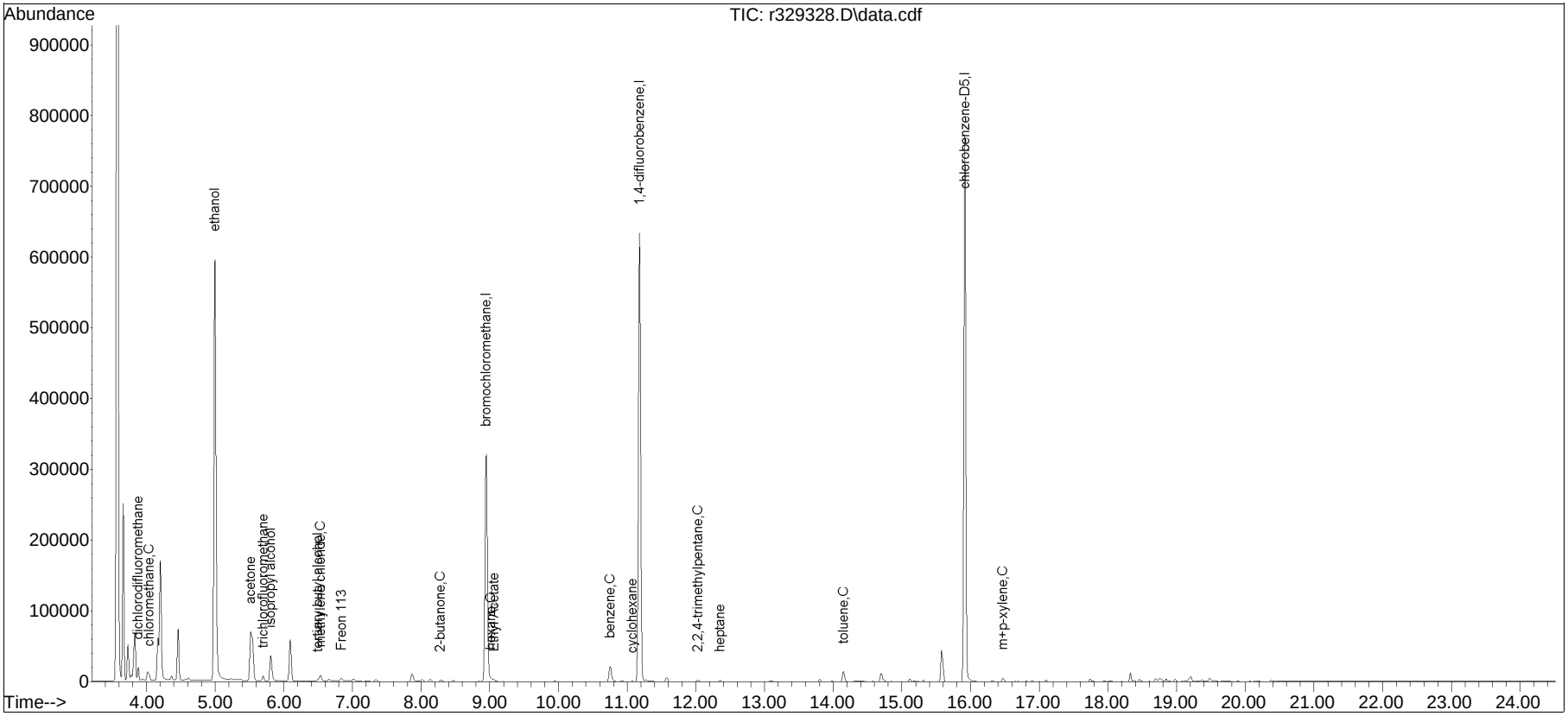
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	3037	0.033	ppbV #	84
62) heptane	12.353	43	1417	0.043	ppbV #	78
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.075		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	14375	0.172	ppbV	98
72) 2-hexanone	14.567		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.317		0	N.D.		
83) m+p-xylene	16.467	91	5579	0.067	ppbV	90
84) bromoform	0.000		0	N.D.		
85) styrene	16.817		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900		0	N.D.		
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	18.383		0	N.D.		
101) Benzyl Chloride	18.383		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

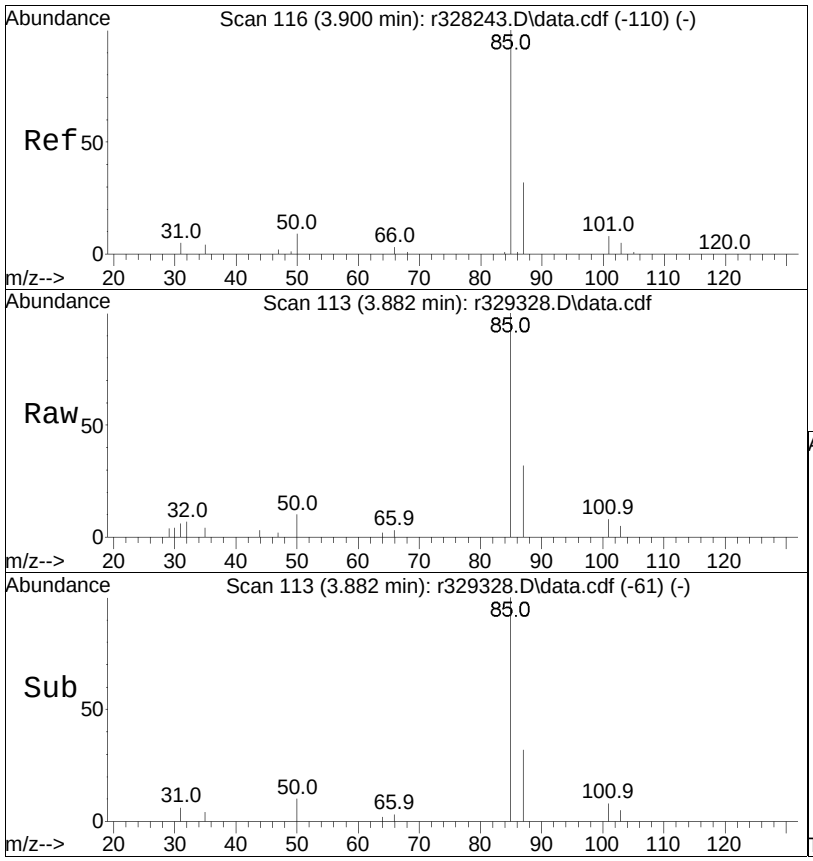
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329328.D
Acq On : 26 Feb 2024 1:55 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-09,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:22 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

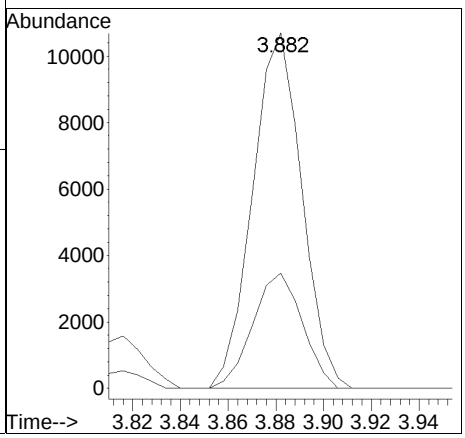


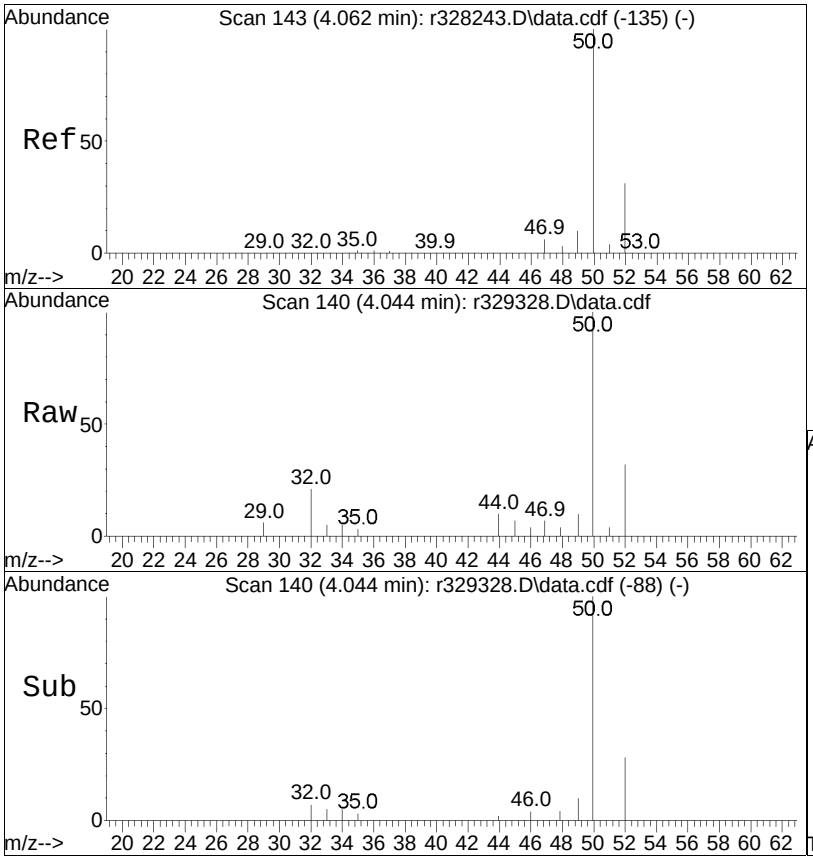


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 85 Resp: 15331

Ion	Ratio	Lower	Upper
85	100		
87	32.4	25.7	38.5

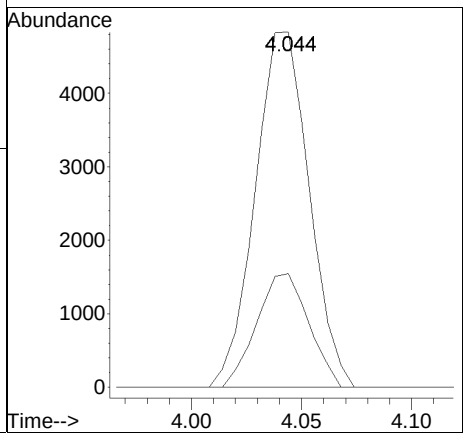


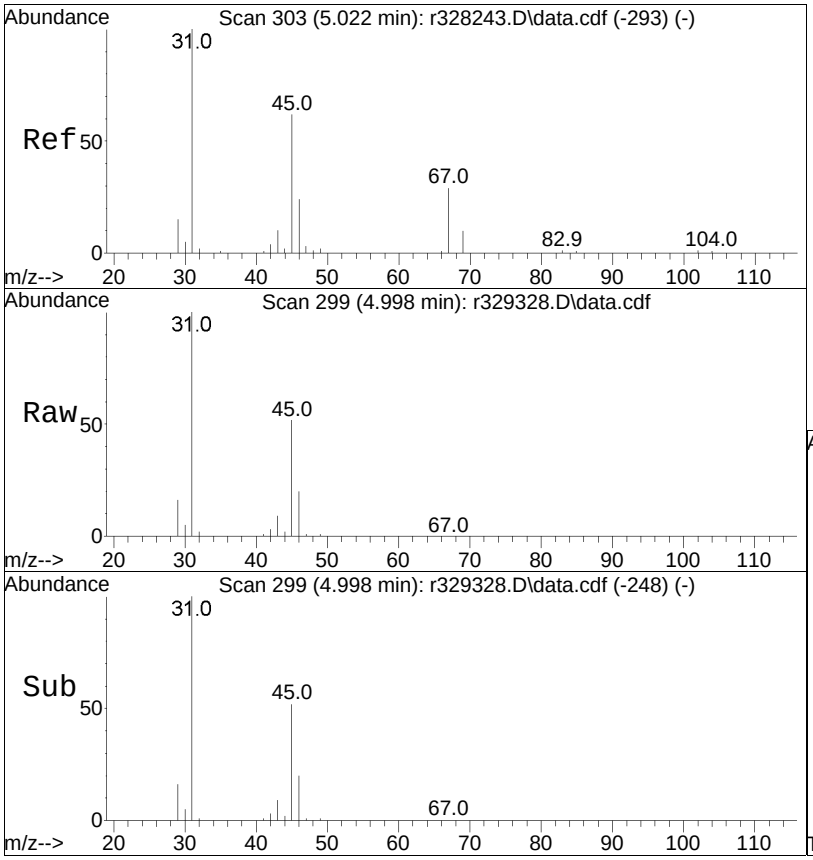


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 50 Resp: 8244

Ion	Ratio	Lower	Upper
50	100		
52	32.0	25.0	37.6

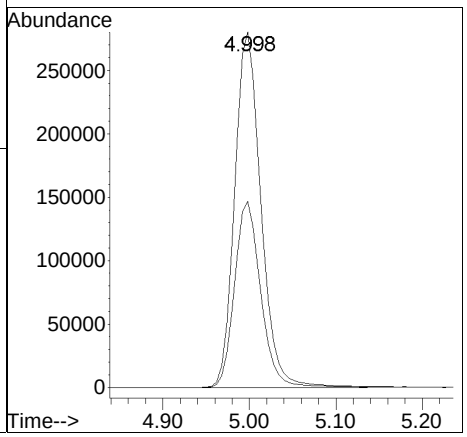


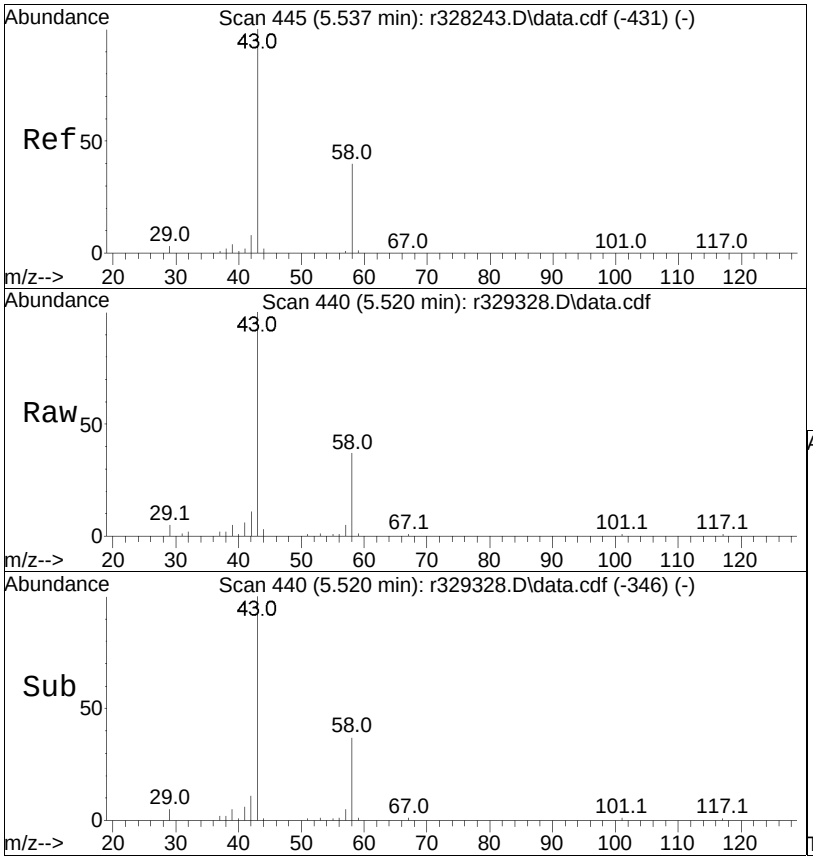


#15
ethanol
Concen: 58.18 ppbV
RT: 4.998 min Scan# 299
Delta R.T. -0.024 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 31 Resp: 543986

Ion	Ratio	Lower	Upper
31	100		
45	52.3	49.8	74.6

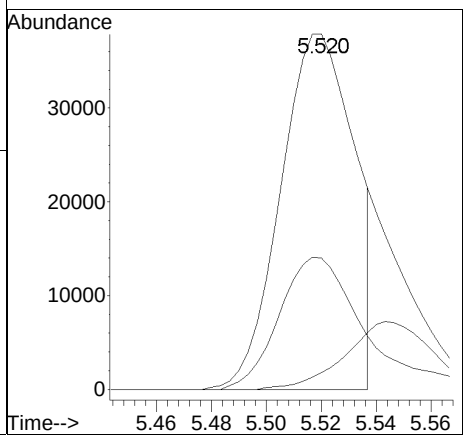


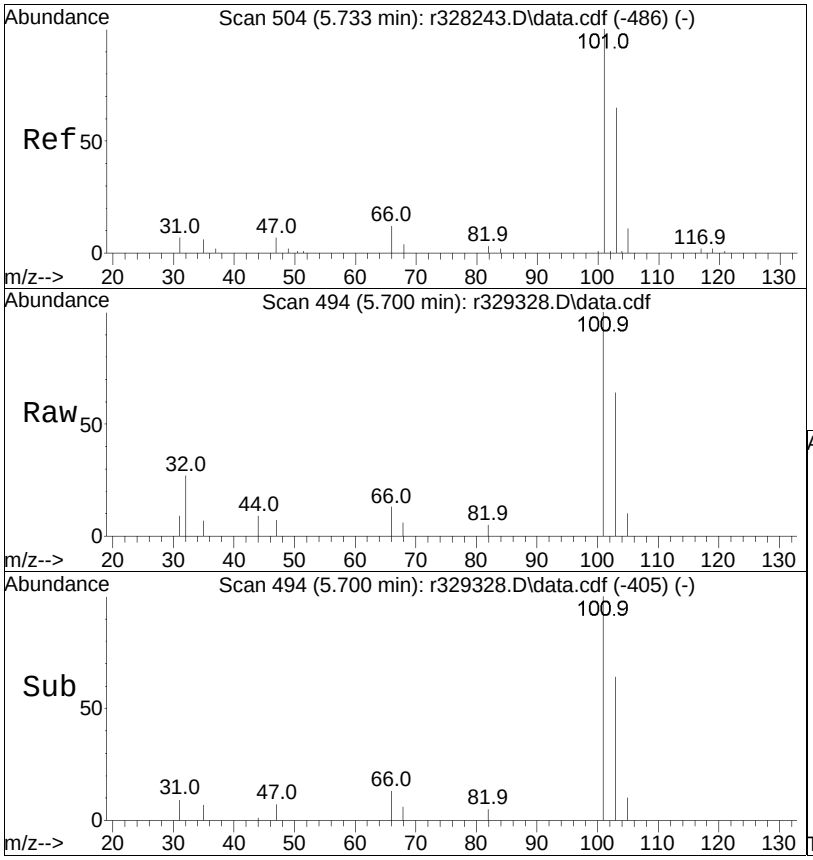


#19
acetone
Concen: 2.82 ppbV m
RT: 5.520 min Scan# 440
Delta R.T. -0.017 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 43 Resp: 70491

Ion	Ratio	Lower	Upper
43	100		
58	37.0	31.9	47.9
57	4.7	0.9	1.3#

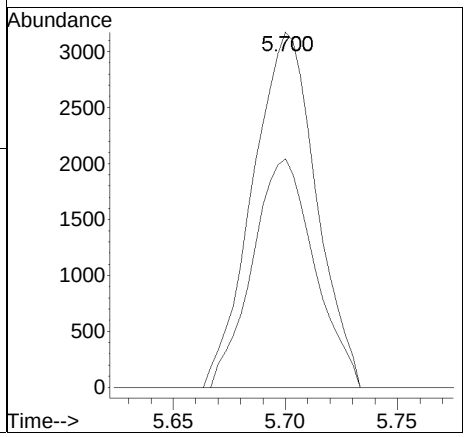


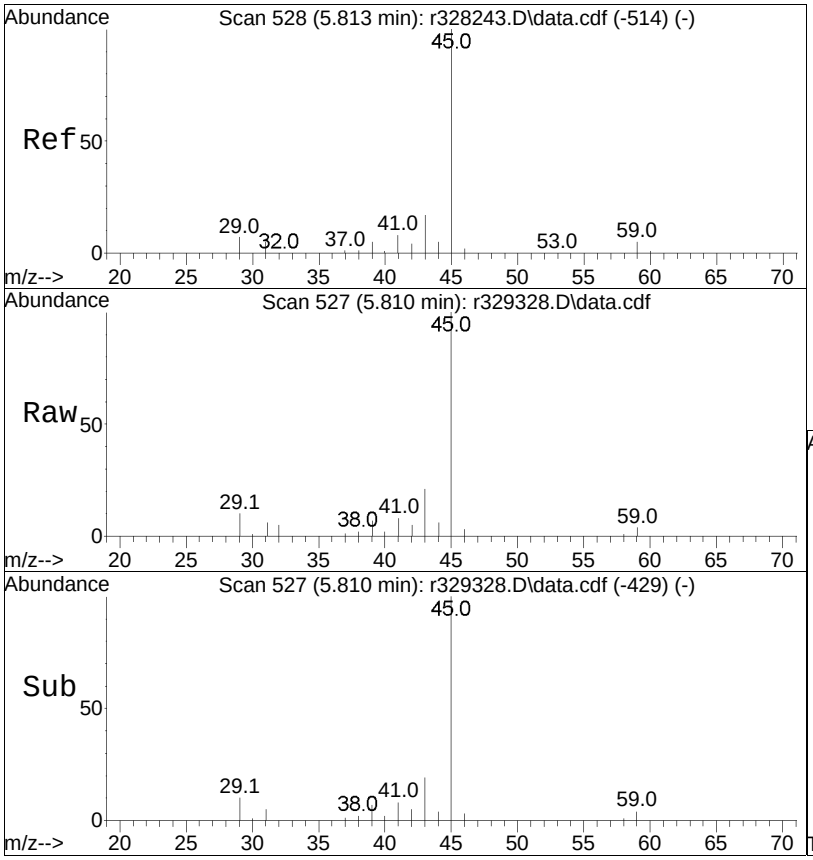


#21
trichlorofluoromethane
Concen: 0.22 ppbV
RT: 5.700 min Scan# 494
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion:101 Resp: 6273

Ion	Ratio	Lower	Upper
101	100		
103	64.3	51.7	77.5

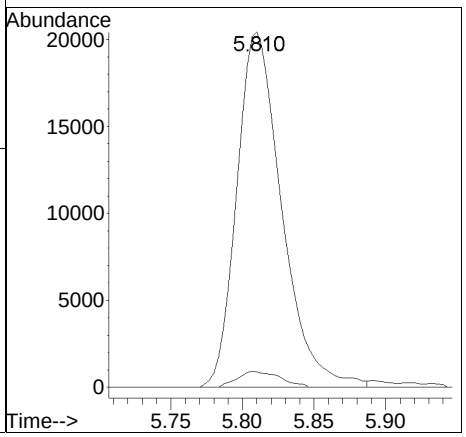


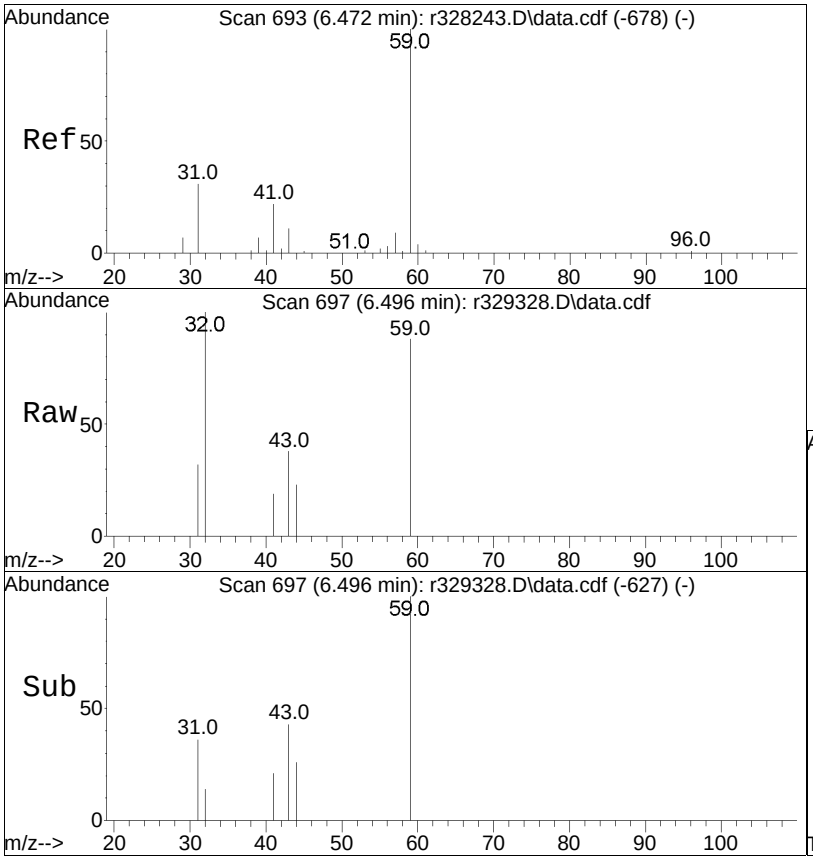


#22
isopropyl alcohol
Concen: 1.46 ppbV
RT: 5.810 min Scan# 527
Delta R.T. -0.003 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 45 Resp: 44699

Ion	Ratio	Lower	Upper
45	100		
59	4.4	3.7	5.5

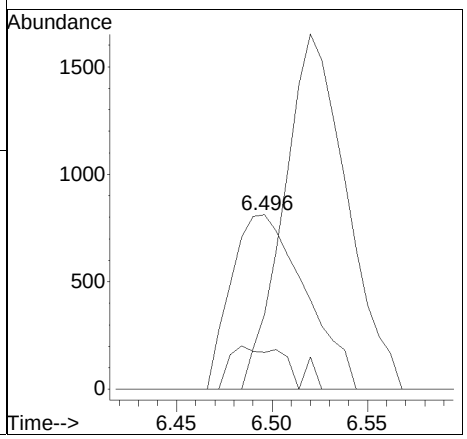


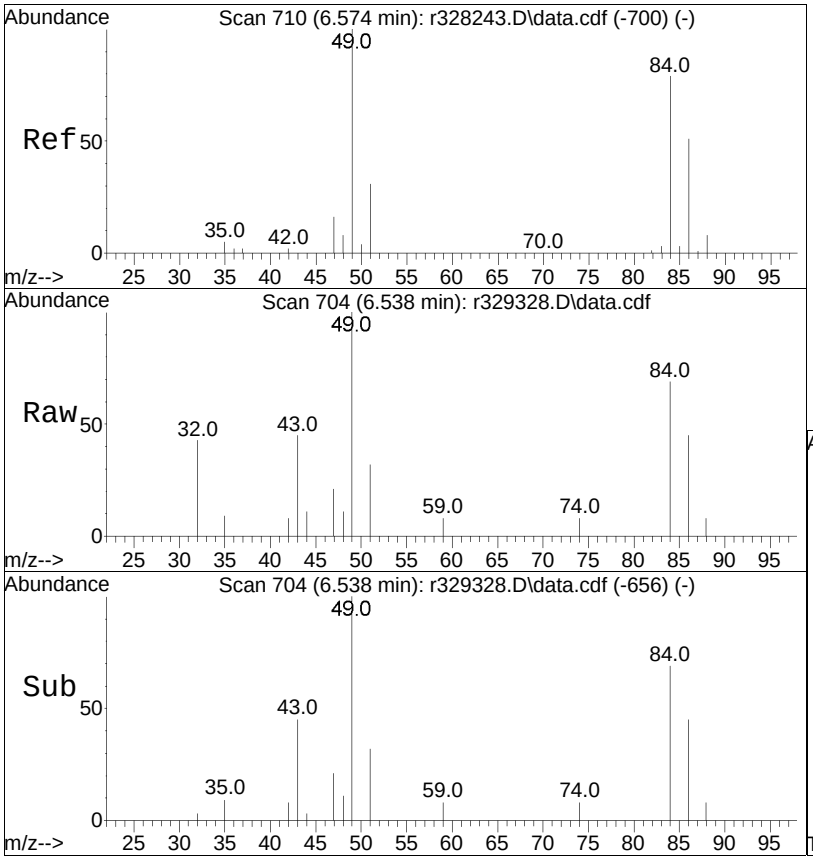


#27
tertiary butyl alcohol
Concen: 0.06 ppbV
RT: 6.496 min Scan# 697
Delta R.T. 0.024 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 59 Resp: 2193

Ion	Ratio	Lower	Upper
59	100		
41	21.2	17.5	26.3
43	43.1	8.4	12.6#

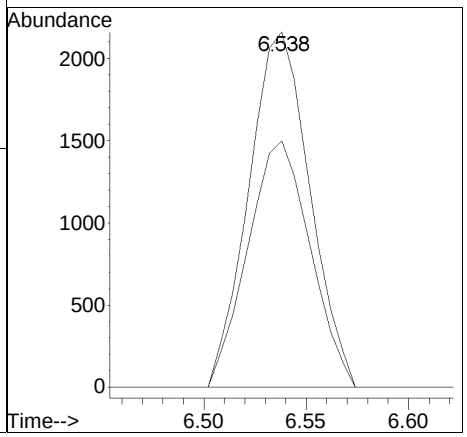


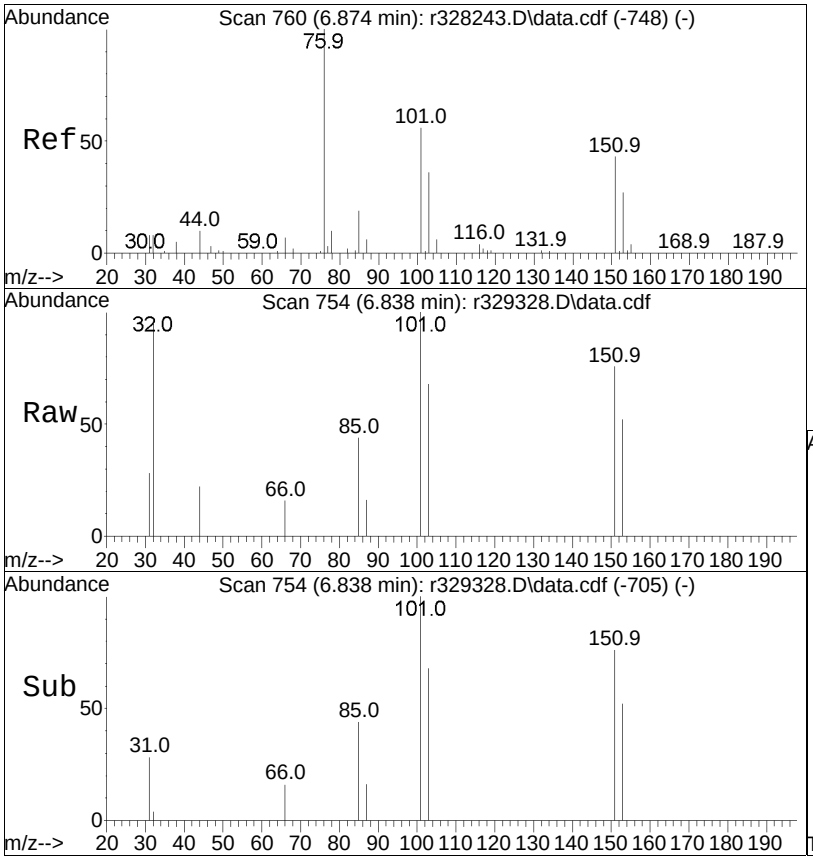


#28
methylene chloride
Concen: 0.25 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 49 Resp: 4483

Ion	Ratio	Lower	Upper
49	100		
84	69.4	63.3	94.9

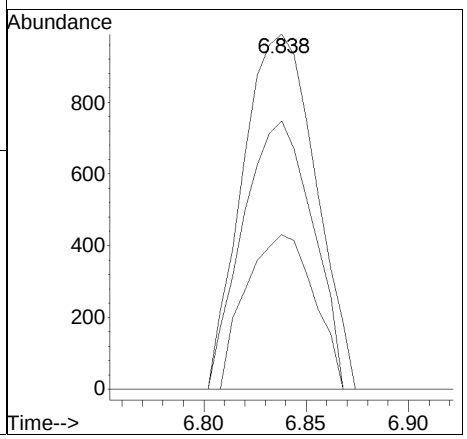


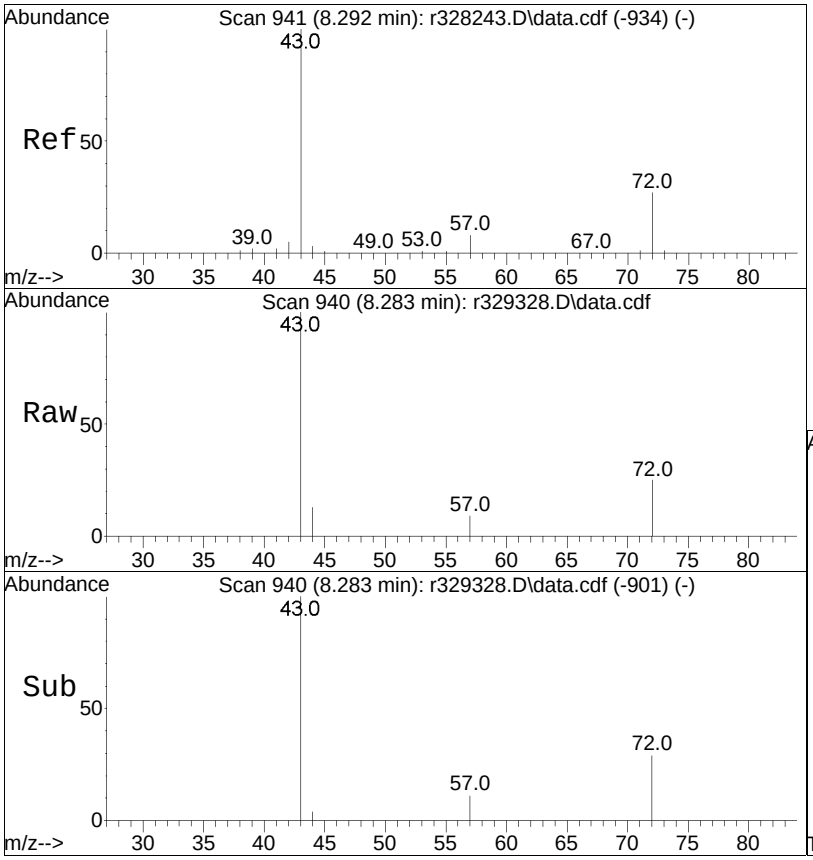


#31
Freon 113
Concen: 0.08 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion:101 Resp: 2458

Ion	Ratio	Lower	Upper
101	100		
85	43.5	27.9	41.9#
151	75.6	61.0	91.4

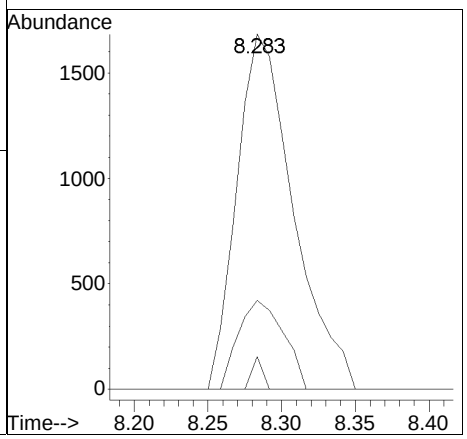


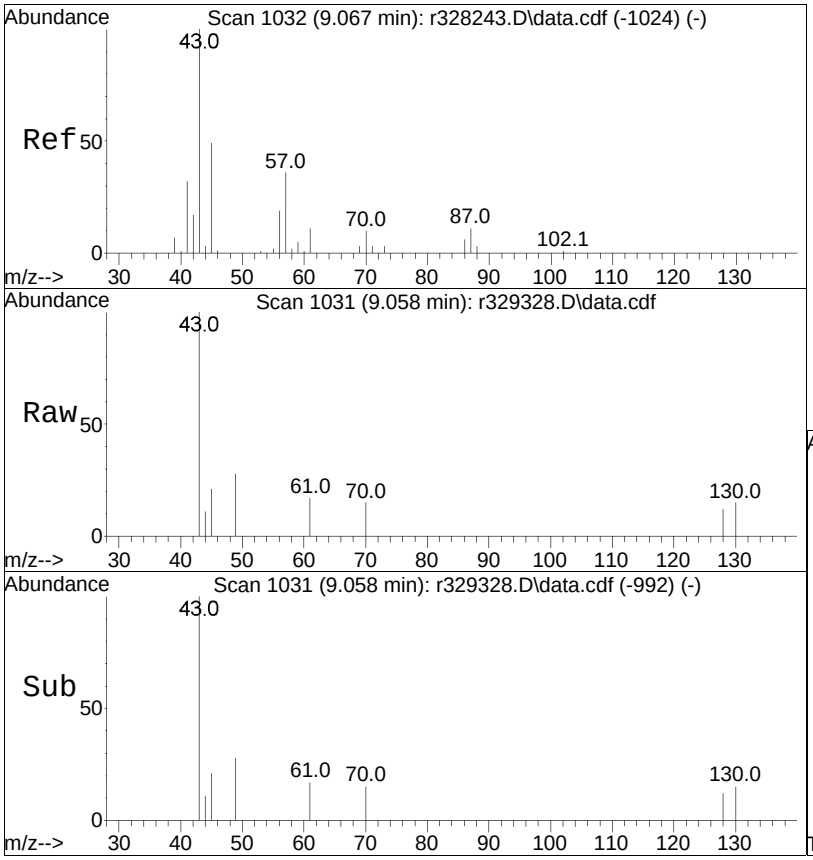


#36
2-butanone
Concen: 0.11 ppbV
RT: 8.283 min Scan# 940
Delta R.T. -0.008 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 43 Resp: 4510

Ion	Ratio	Lower	Upper
43	100		
72	25.0	21.9	32.9
57	9.3	6.6	9.8

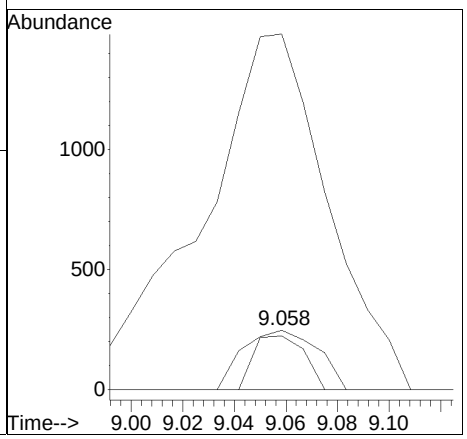


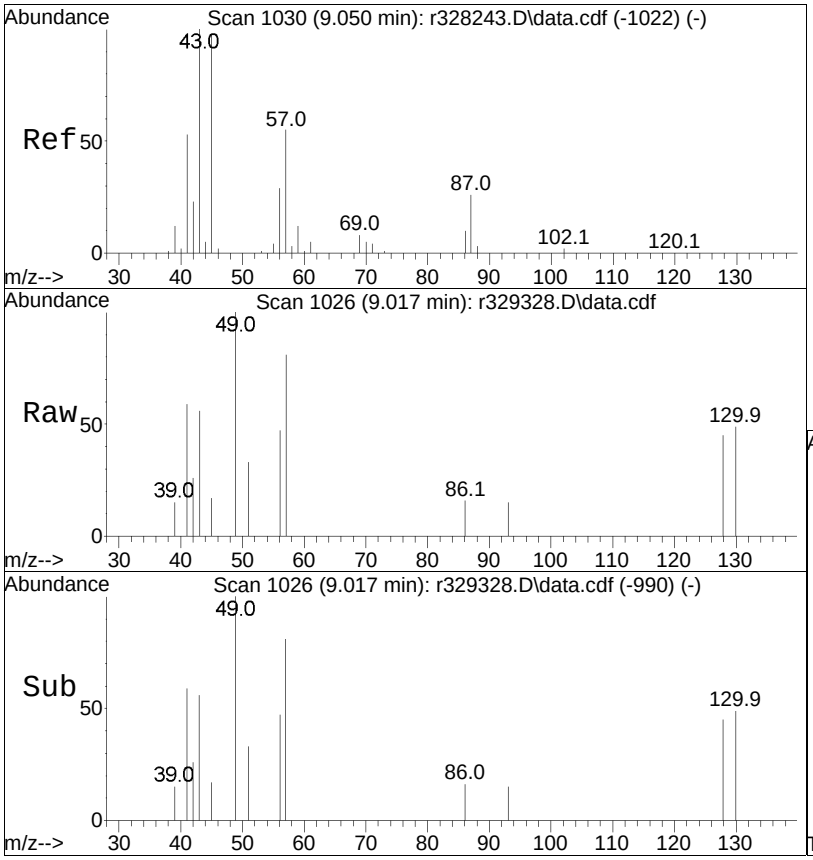


#38
Ethyl Acetate
Concen: 0.07 ppbV
RT: 9.058 min Scan# 1031
Delta R.T. -0.008 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 61 Resp: 495

Ion	Ratio	Lower	Upper
61	100		
70	90.3	77.5	116.3
43	599.6	765.5	1148.3#

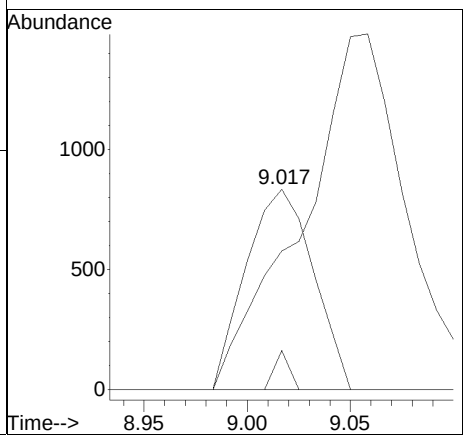


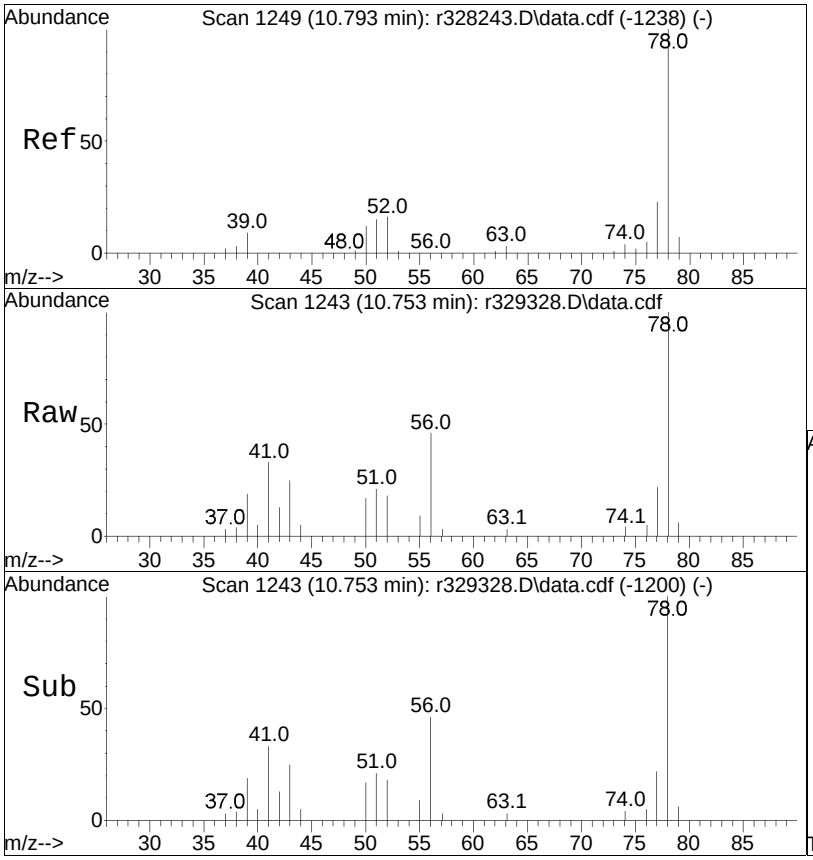


#44
hexane
Concen: 0.07 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 57 Resp: 1894

Ion	Ratio	Lower	Upper
57	100		
43	69.2	145.3	217.9#
86	19.4	14.3	21.5

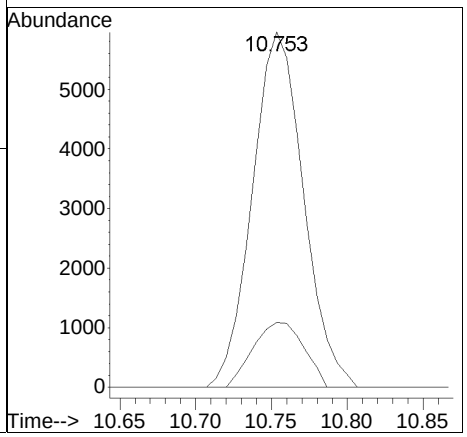


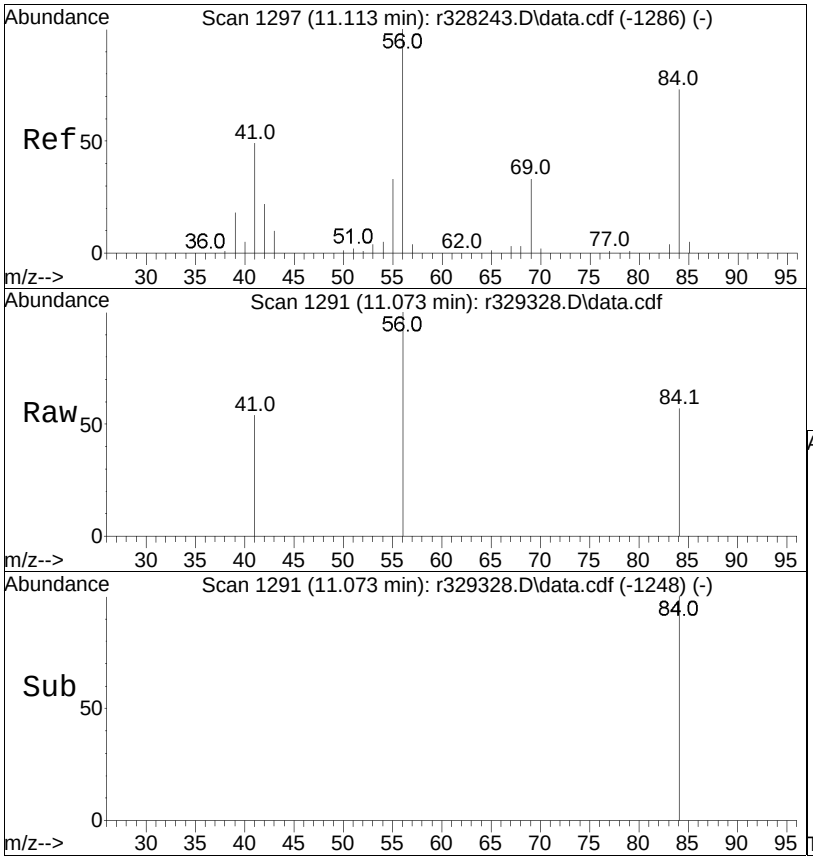


#50
benzene
Concen: 0.28 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 78 Resp: 13988

Ion	Ratio	Lower	Upper
78	100		
52	18.3	12.4	18.6

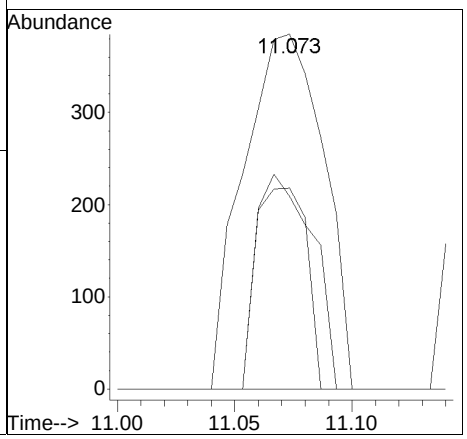


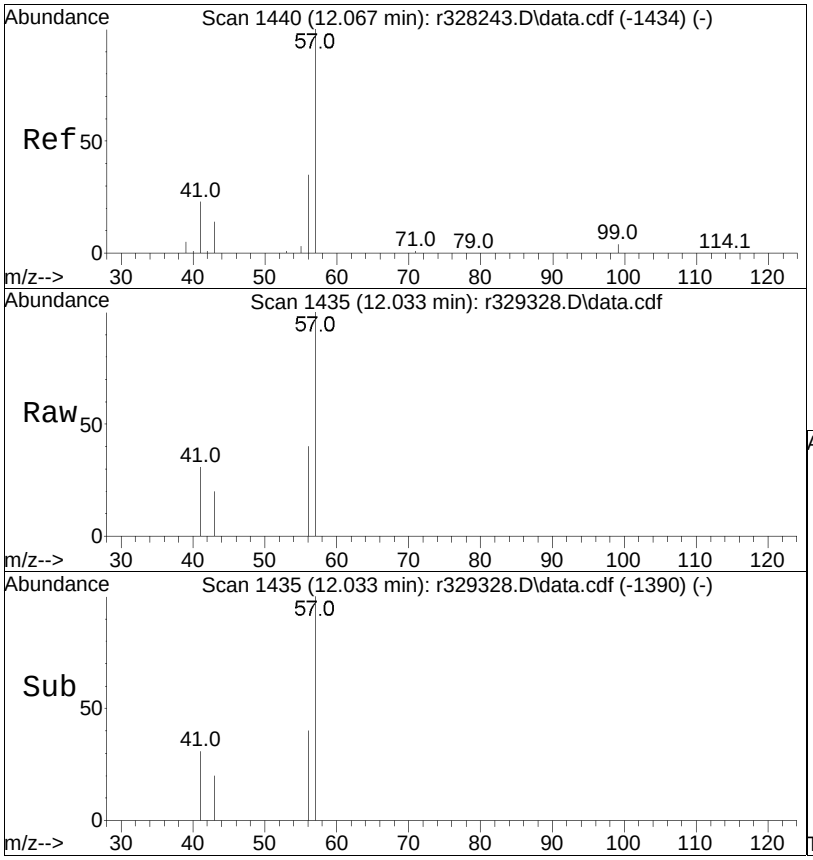


#53
cyclohexane
Concen: 0.03 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 56 Resp: 914

Ion	Ratio	Lower	Upper
56	100		
84	56.6	58.7	88.1#
41	54.3	39.6	59.4

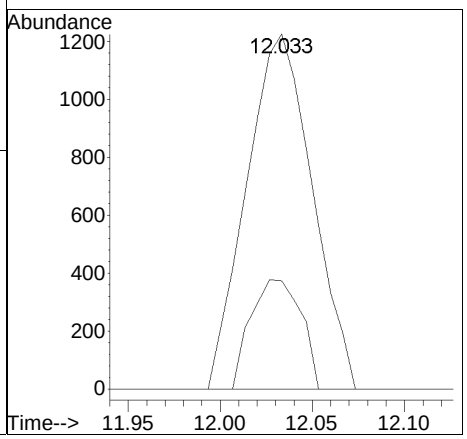


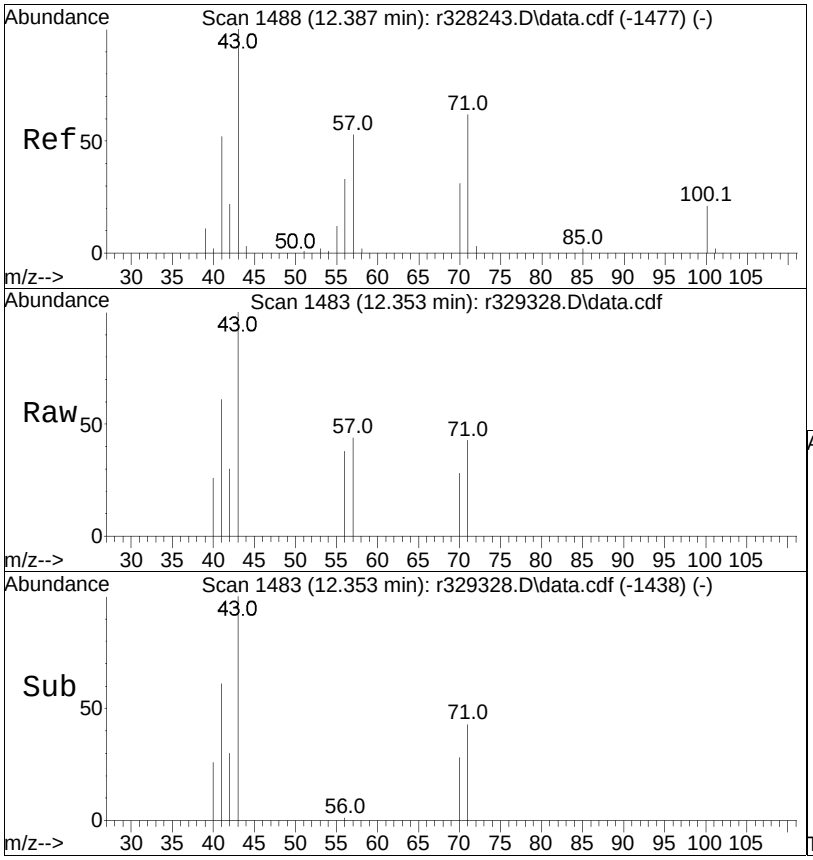


#60
2,2,4-trimethylpentane
Concen: 0.03 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 57 Resp: 3037

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	30.5	18.2	27.4#

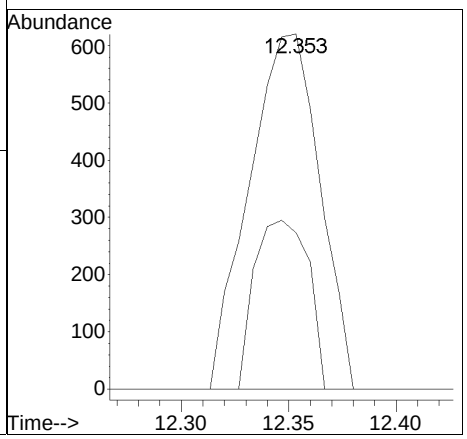


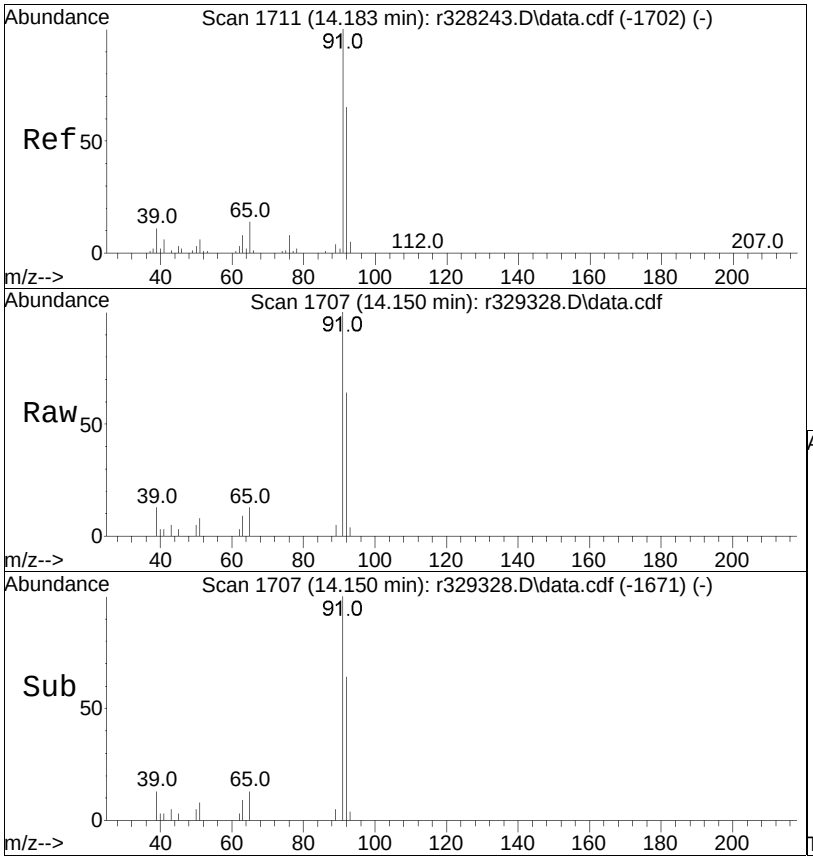


#62
heptane
Concen: 0.04 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 43 Resp: 1417

Ion	Ratio	Lower	Upper
43	100		
57	44.0	42.6	64.0
100	0.0	17.0	25.4#

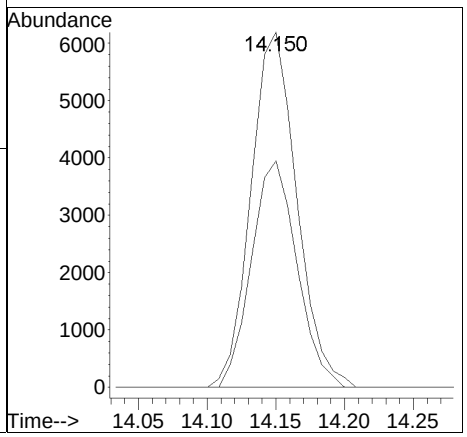


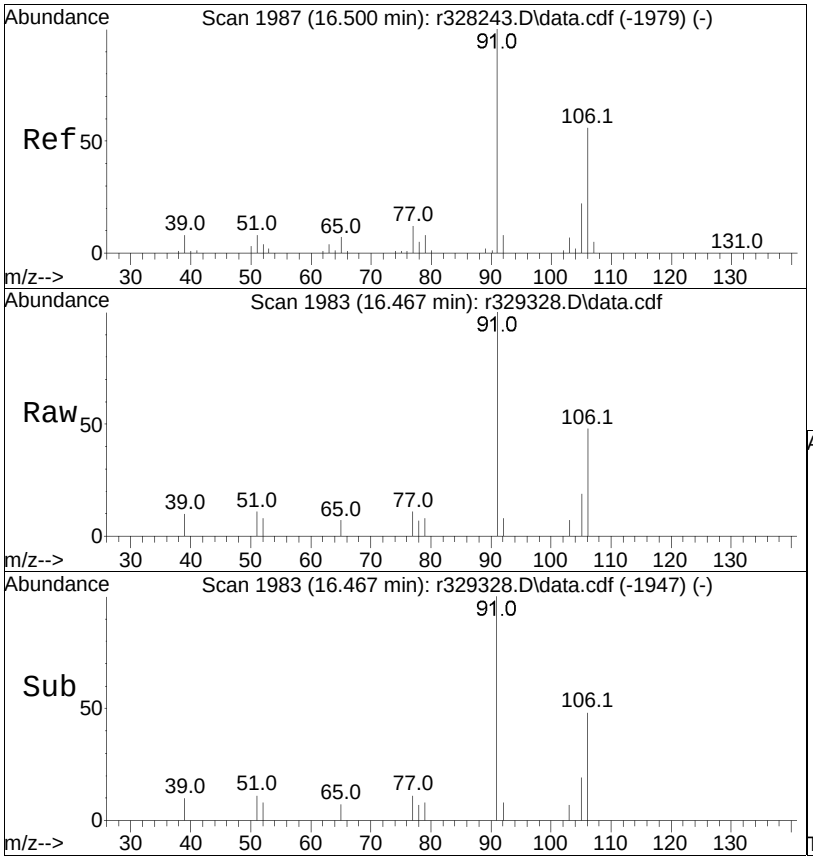


#68
toluene
Concen: 0.17 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 91 Resp: 14375

Ion	Ratio	Lower	Upper
91	100		
92	63.7	52.1	78.1

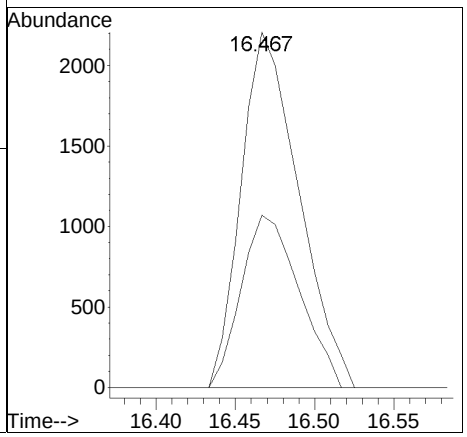




#83
m+p-xylene
Concen: 0.07 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329328.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion: 91 Resp: 5579

Ion	Ratio	Lower	Upper
91	100		
106	48.5	44.8	67.2

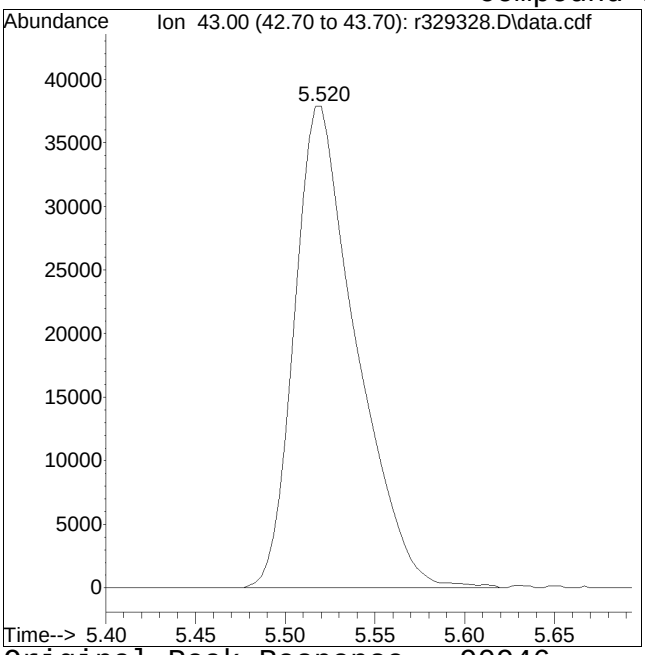


Manual Integration Report

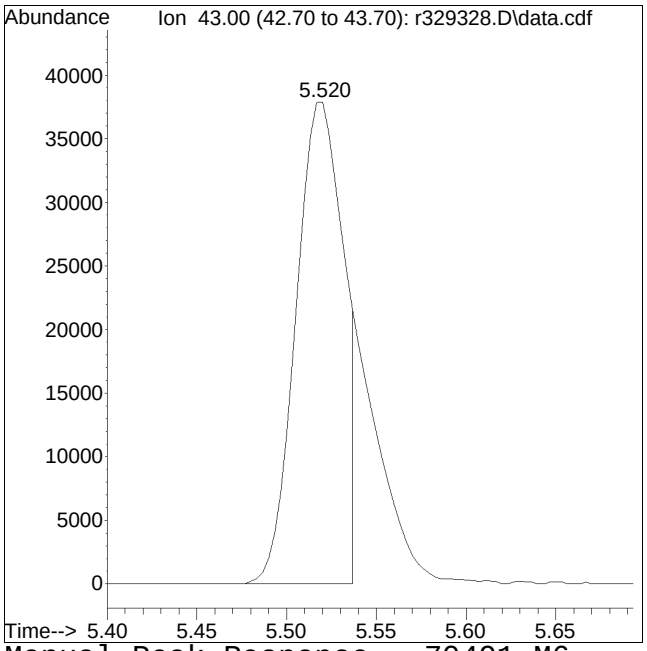
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329328.D
Date Inj'd : 2/26/2020 0:1: 5
Sample : L2409224-09,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:13 am

Compound #19: acetone



Original Peak Response = 90946



Manual Peak Response = 70491 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329329.D
Acq On : 26 Feb 2024 2:35 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-11,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:41 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	234248	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		83.60%	
43) 1,4-difluorobenzene	11.180	114	608976	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		79.26%	
67) chlorobenzene-D5	15.917	54	120227	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		84.00%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.888	85	15213	0.558	ppbV	96
6) chloromethane	4.044	50	7992	0.595	ppbV	96
7) Freon-114	4.152		0	N.D.		
10) 1,3-butadiene	4.410	54	551	0.043	ppbV	80
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.004	31	294936	31.601	ppbV	86
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.523	43	89135M6	3.570	ppbV	
21) trichlorofluoromethane	5.703	101	5769	0.203	ppbV	99
22) isopropyl alcohol	5.813	45	48329	1.587	ppbV	99
27) tertiary butyl alcohol	0.000		0	N.D.	d	
28) methylene chloride	6.544	49	4451	0.244	ppbV	89
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	6.838		0	N.D.		
31) Freon 113	6.838	101	1831	0.058	ppbV #	91
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	8.292	43	4147	0.103	ppbV #	96
38) Ethyl Acetate	9.058		0	N.D.		
39) chloroform	9.108	83	1909	0.067	ppbV #	91
40) Tetrahydrofuran	9.600		0	N.D.		
42) 1,2-dichloroethane	9.942		0	N.D.		
44) hexane	9.017	57	2576	0.094	ppbV #	23
50) benzene	10.760	78	13625	0.272	ppbV #	89
53) cyclohexane	11.073	56	1196	0.042	ppbV	86
56) 1,2-dichloropropane	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329329.D
Acq On : 26 Feb 2024 2:35 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-11,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:41 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

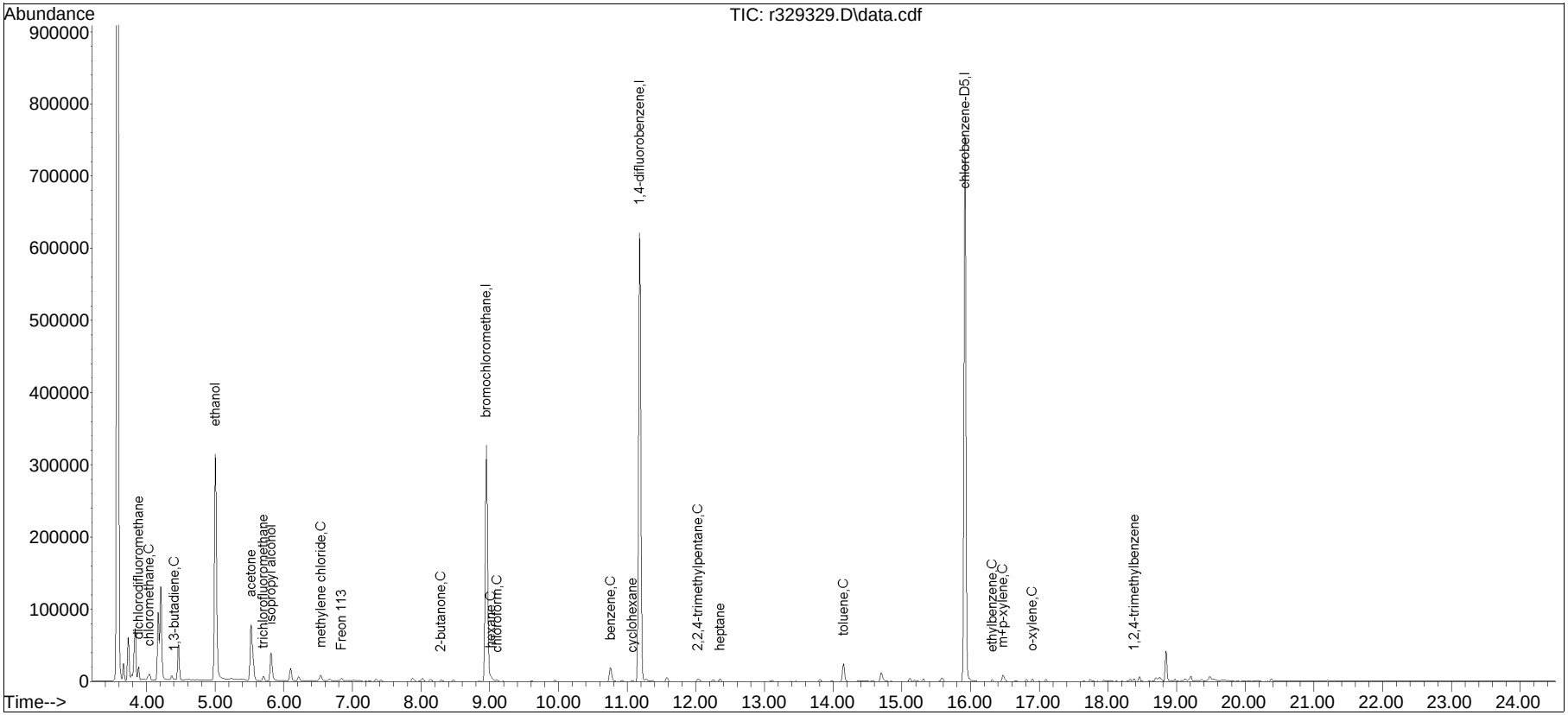
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	12.033	57	4500	0.049	ppbV #	87
62) heptane	12.353	43	2171	0.067	ppbV #	87
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.083		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.150	91	22072	0.266	ppbV	99
72) 2-hexanone	14.417		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.317	91	3431	0.033	ppbV	96
83) m+p-xylene	16.467	91	8708	0.106	ppbV	93
84) bromoform	0.000		0	N.D.		
85) styrene	16.817		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.900	91	3217	0.039	ppbV	92
96) 4-ethyl toluene	18.033		0	N.D.		
97) 1,3,5-trimethylbenzene	18.033		0	N.D.		
99) 1,2,4-trimethylbenzene	18.383	105	3158	0.034	ppbV #	62
101) Benzyl Chloride	18.383		0	N.D.		
102) 1,3-dichlorobenzene	18.575		0	N.D.		
103) 1,4-dichlorobenzene	18.575		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

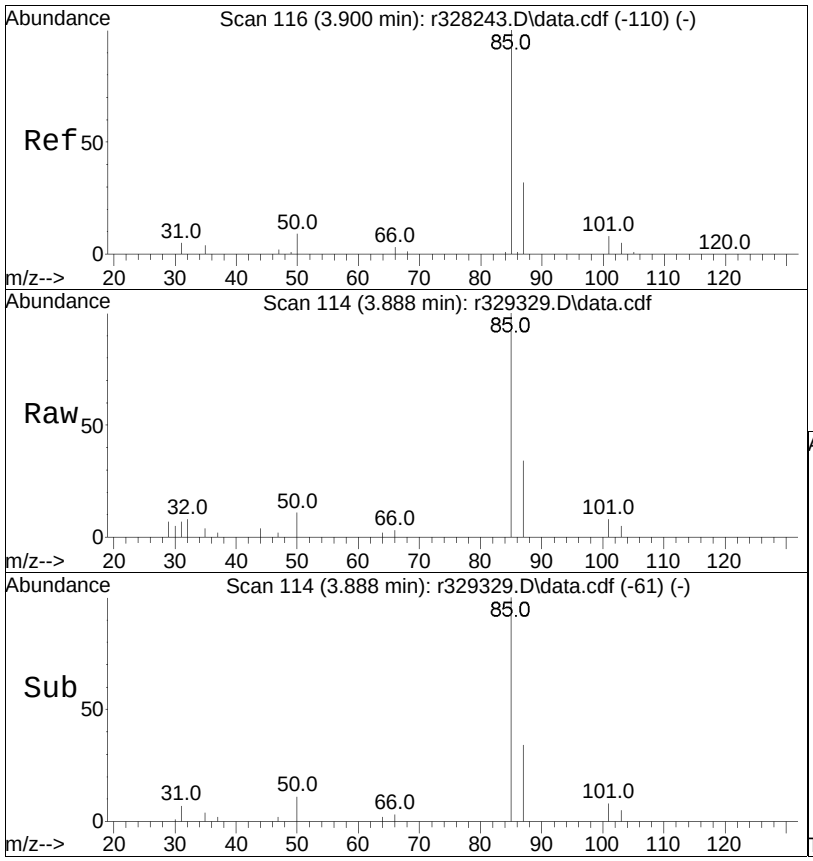
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329329.D
Acq On : 26 Feb 2024 2:35 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-11,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:13:41 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

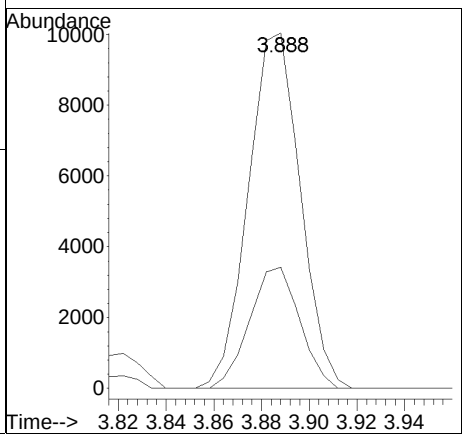


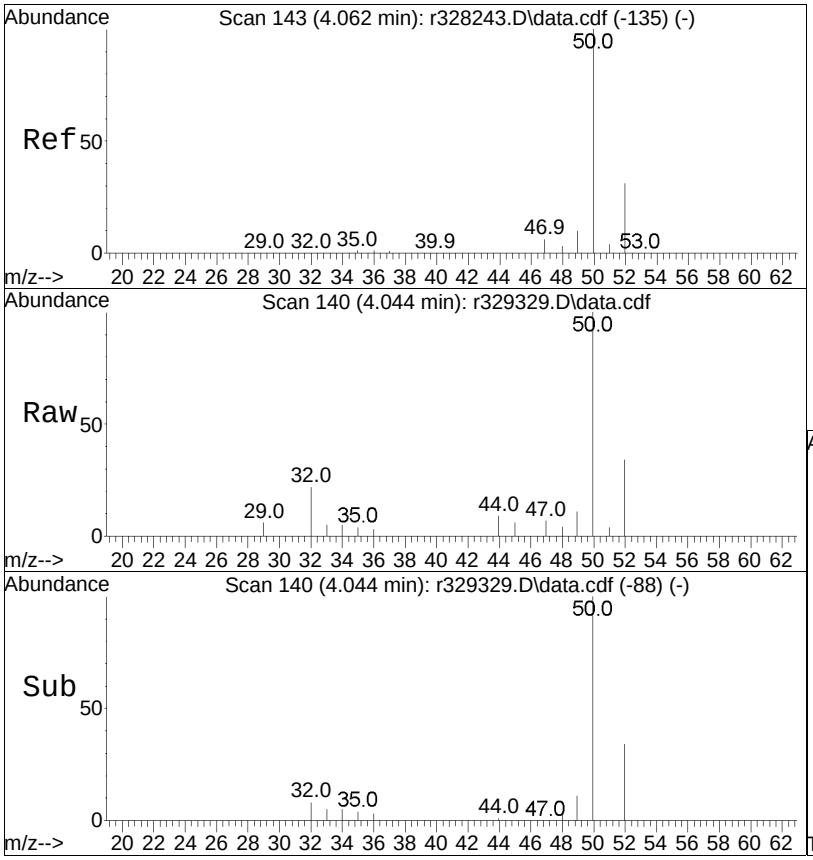


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.888 min Scan# 114
Delta R.T. -0.012 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 85 Resp: 15213

Ion	Ratio	Lower	Upper
85	100		
87	34.1	25.7	38.5

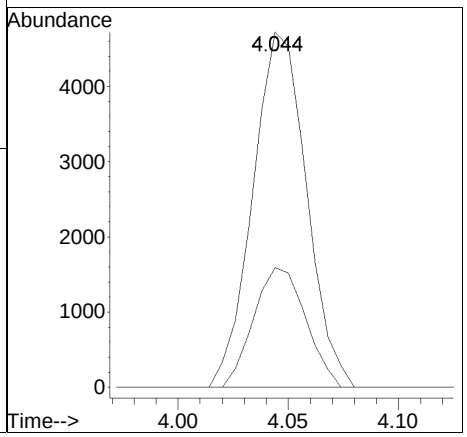


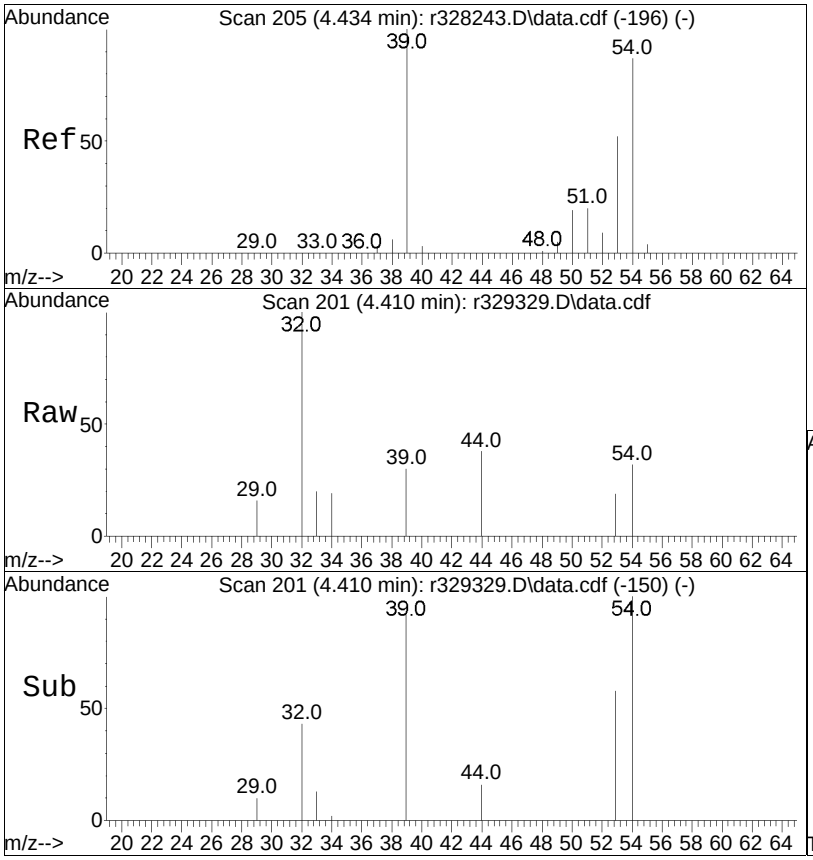


#6
chloromethane
Concen: 0.59 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 50 Resp: 7992

Ion	Ratio	Lower	Upper
50	100		
52	33.7	25.0	37.6

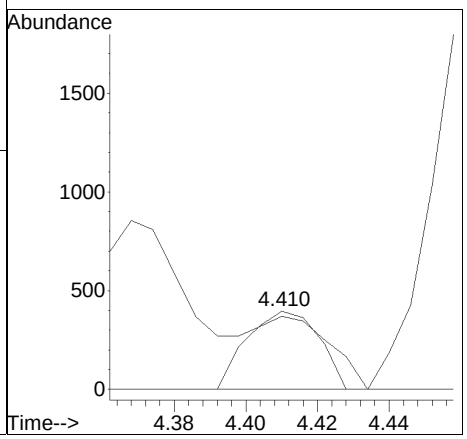


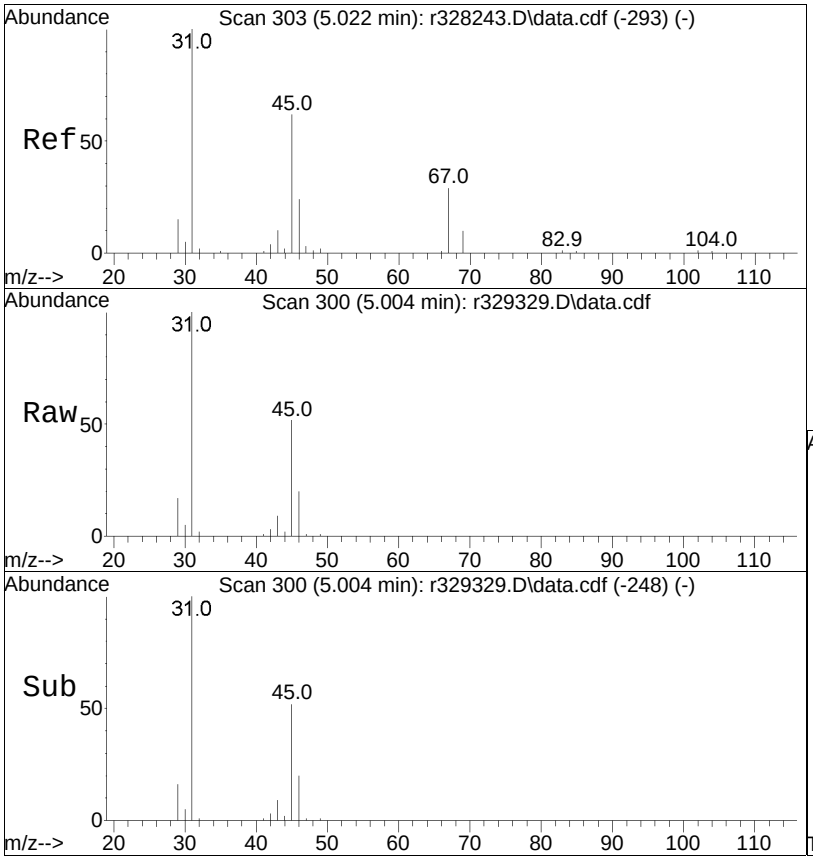


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 54 Resp: 551

Ion	Ratio	Lower	Upper
54	100		
39	93.4	92.3	138.5

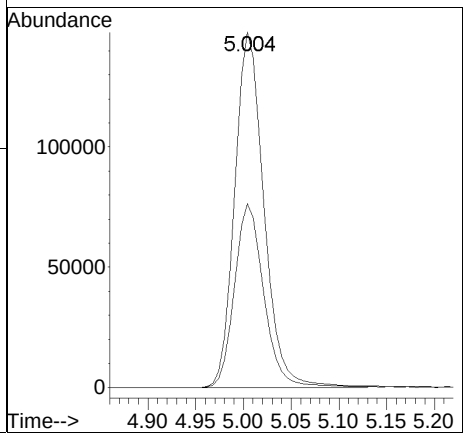


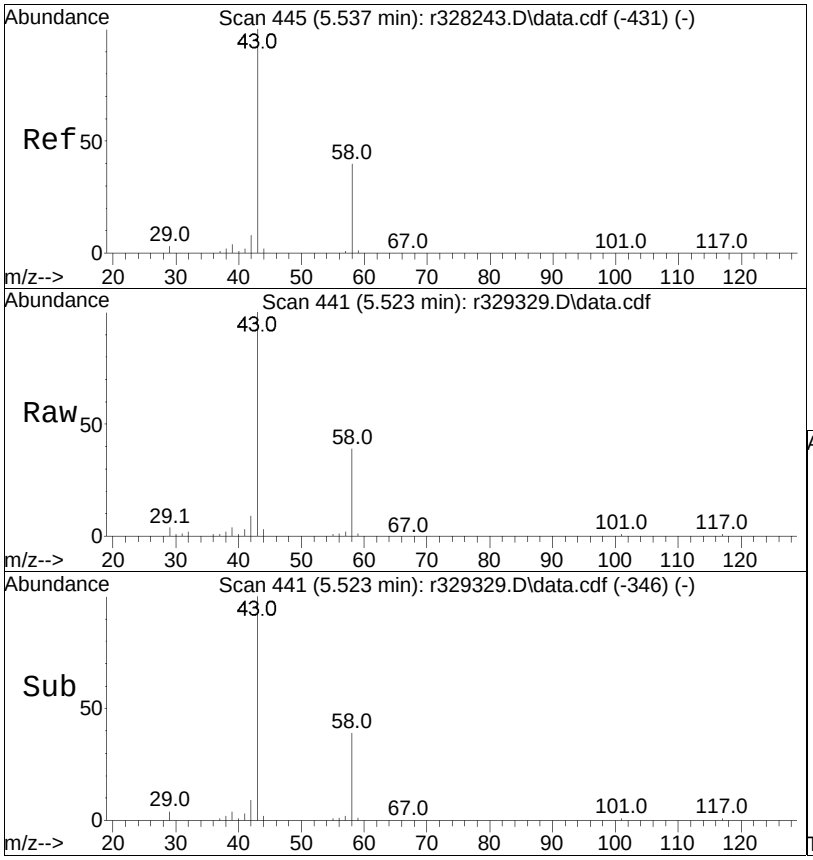


#15
ethanol
Concen: 31.60 ppbV
RT: 5.004 min Scan# 300
Delta R.T. -0.018 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 31 Resp: 294936

Ion	Ratio	Lower	Upper
31	100		
45	51.7	49.8	74.6

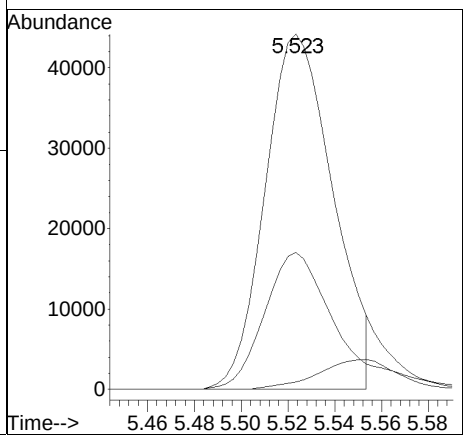


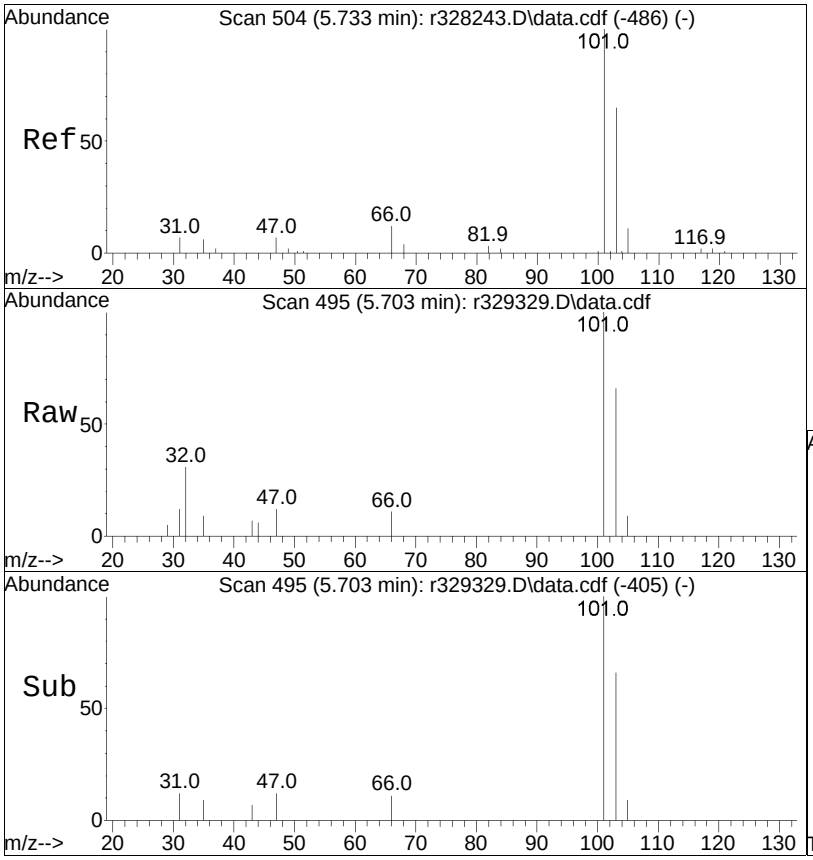


#19
acetone
Concen: 3.57 ppbV m
RT: 5.523 min Scan# 441
Delta R.T. -0.013 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 43 Resp: 89135

Ion	Ratio	Lower	Upper
43	100		
58	38.6	31.9	47.9
57	2.1	0.9	1.3#

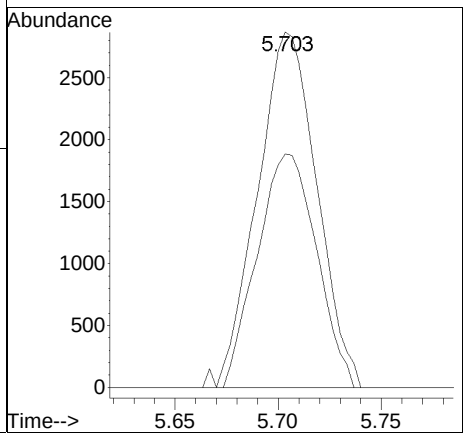


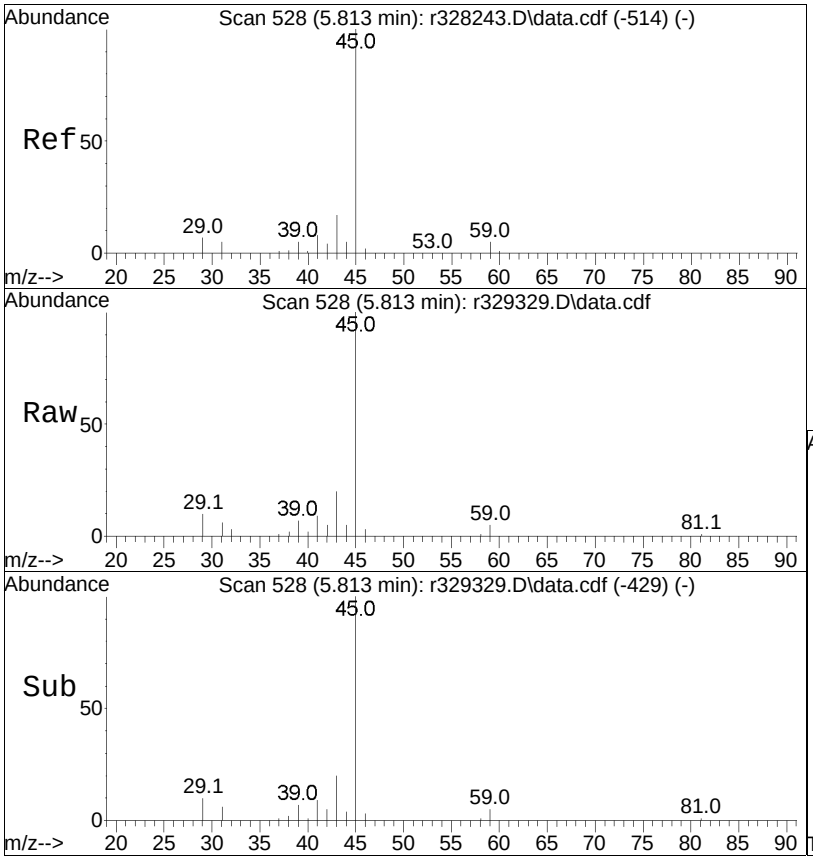


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.703 min Scan# 495
Delta R.T. -0.030 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion:101 Resp: 5769

Ion	Ratio	Lower	Upper
101	100		
103	65.7	51.7	77.5

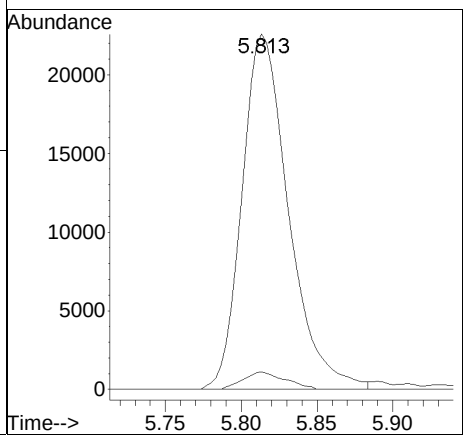


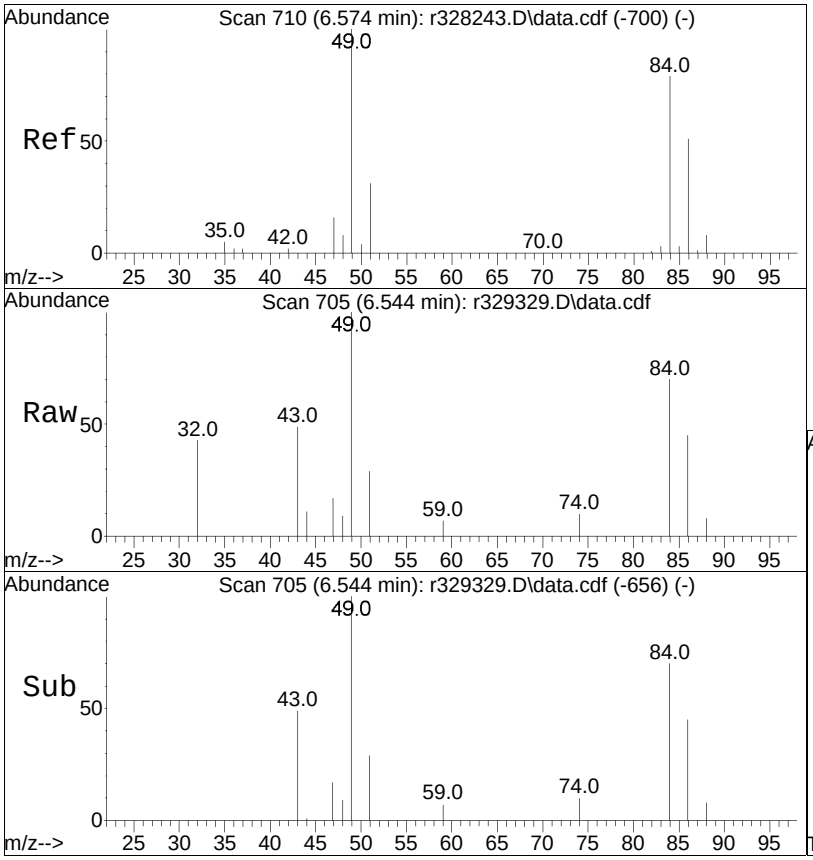


#22
isopropyl alcohol
Concen: 1.59 ppbV
RT: 5.813 min Scan# 528
Delta R.T. 0.000 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 45 Resp: 48329

Ion	Ratio	Lower	Upper
45	100		
59	4.9	3.7	5.5

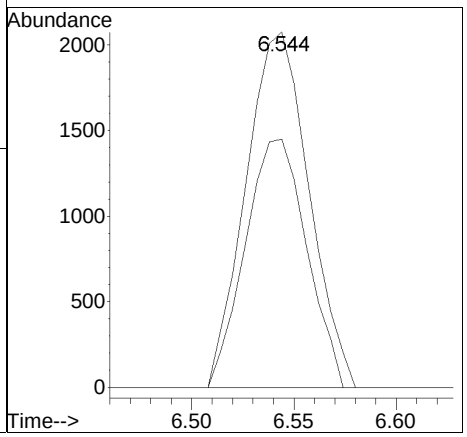


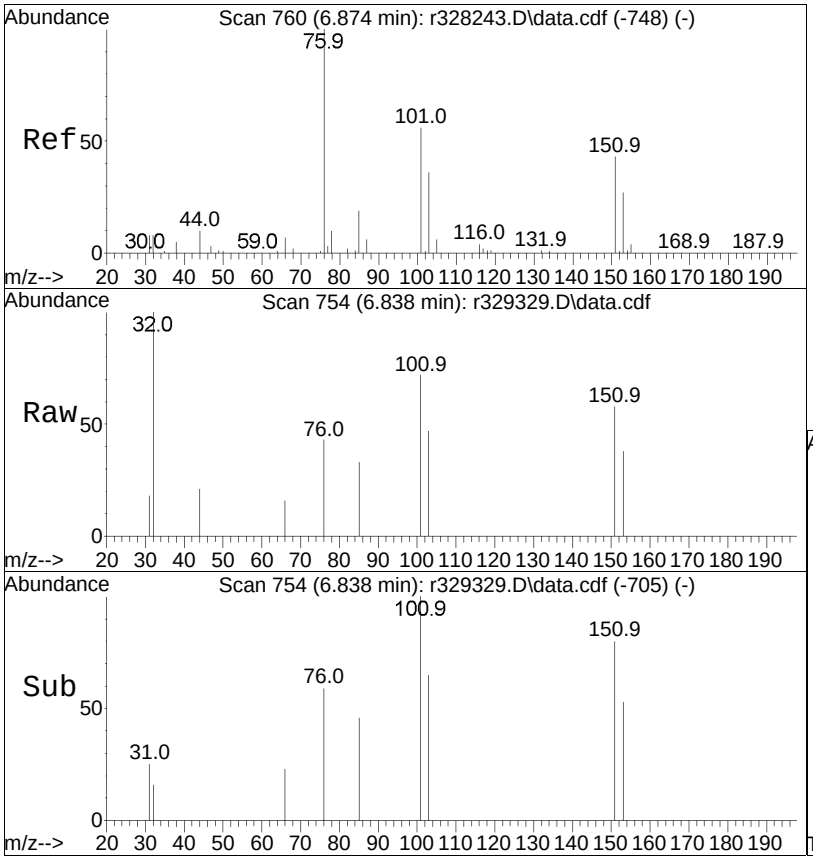


#28
methylene chloride
Concen: 0.24 ppbV
RT: 6.544 min Scan# 705
Delta R.T. -0.030 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 49 Resp: 4451

Ion	Ratio	Lower	Upper
49	100		
84	69.9	63.3	94.9

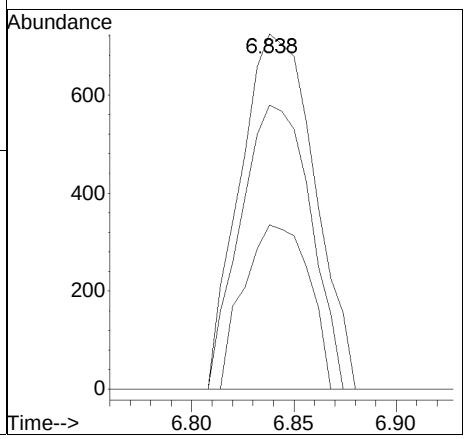


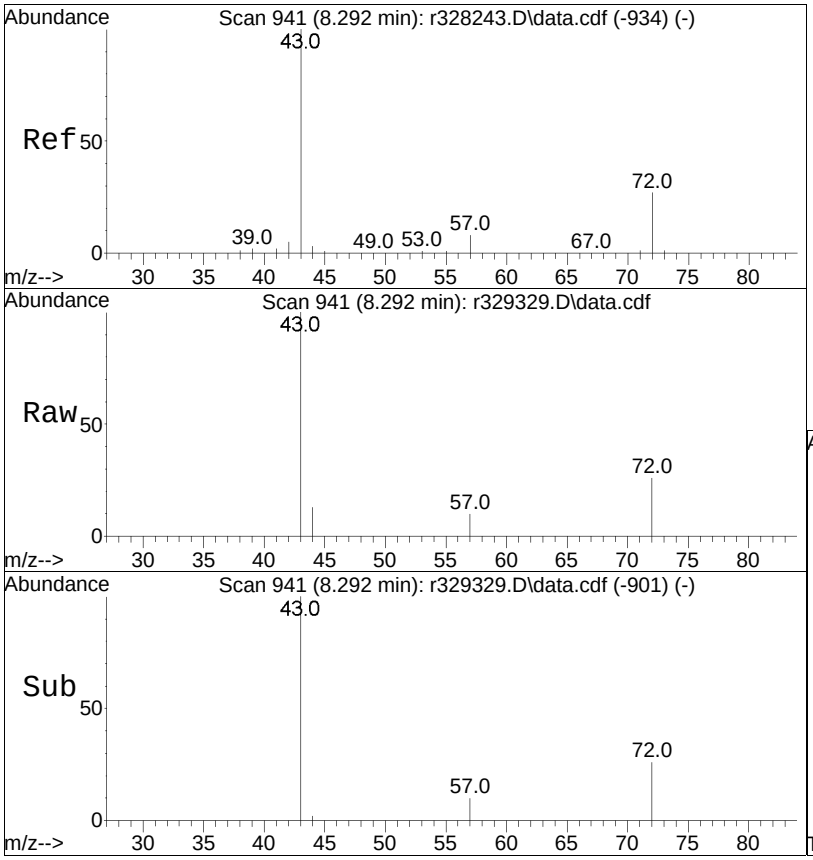


#31
Freon 113
Concen: 0.06 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion:101 Resp: 1831

Ion	Ratio	Lower	Upper
101	100		
85	46.3	27.9	41.9#
151	80.0	61.0	91.4

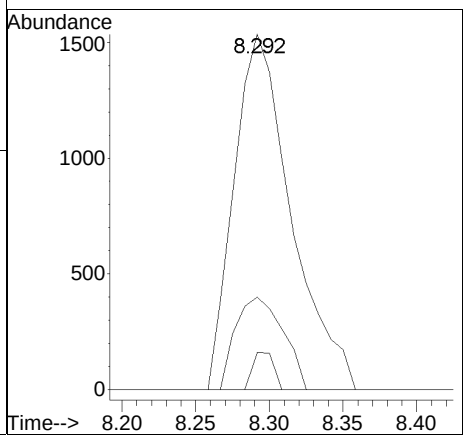


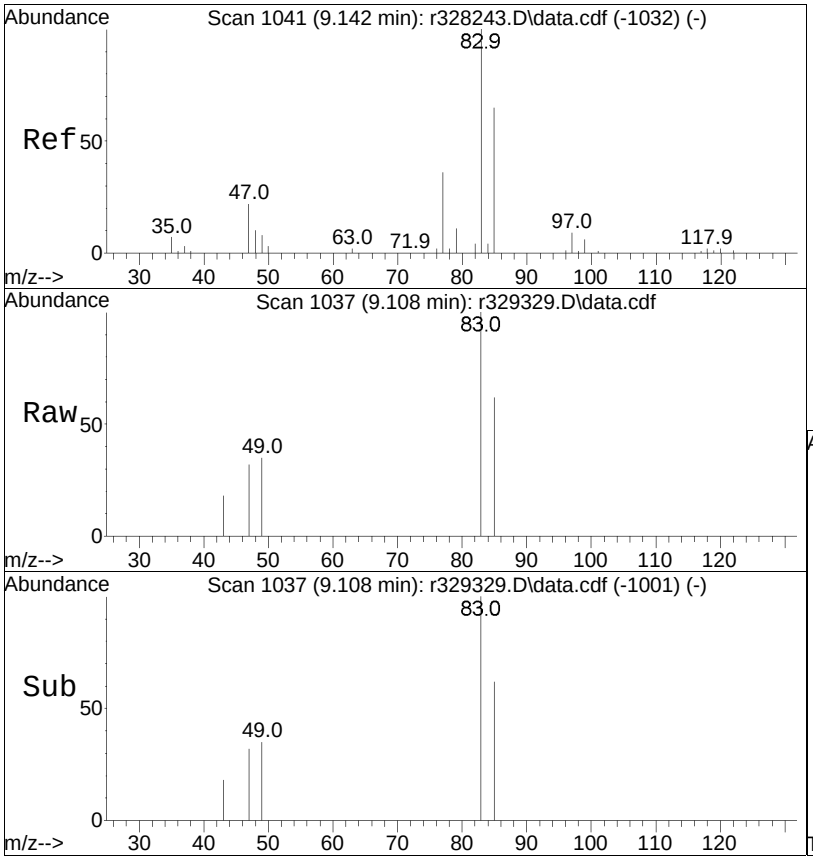


#36
2-butanone
Concen: 0.10 ppbV
RT: 8.292 min Scan# 941
Delta R.T. 0.000 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 43 Resp: 4147

Ion	Ratio	Lower	Upper
43	100		
72	26.0	21.9	32.9
57	10.3	6.6	9.8#

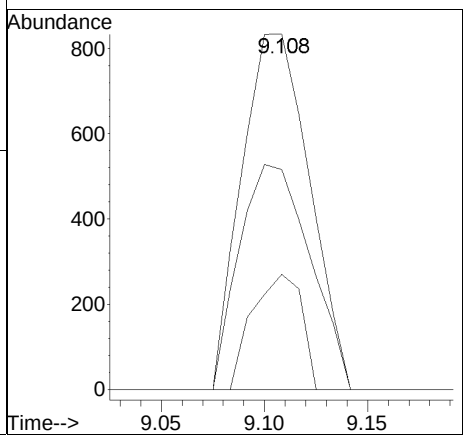


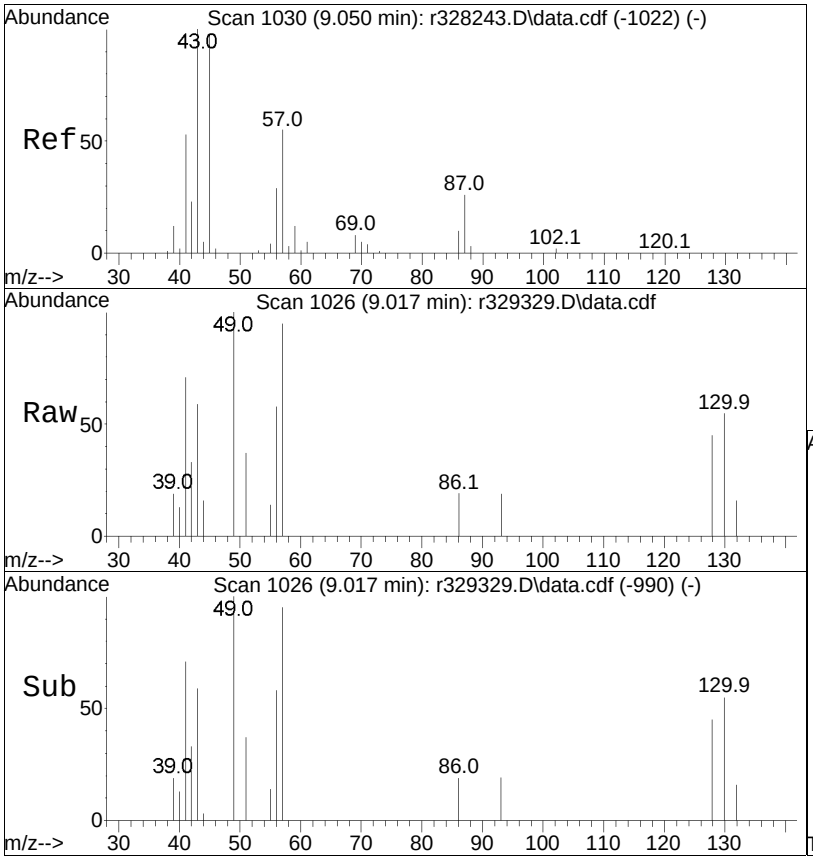


#39
chloroform
Concen: 0.07 ppbV
RT: 9.108 min Scan# 1037
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 83 Resp: 1909

Ion	Ratio	Lower	Upper
83	100		
85	61.9	52.2	78.4
47	32.4	17.4	26.2#

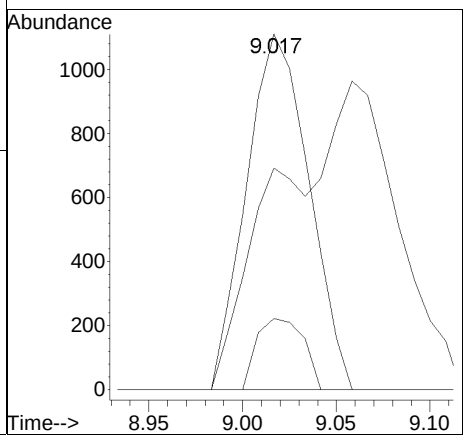


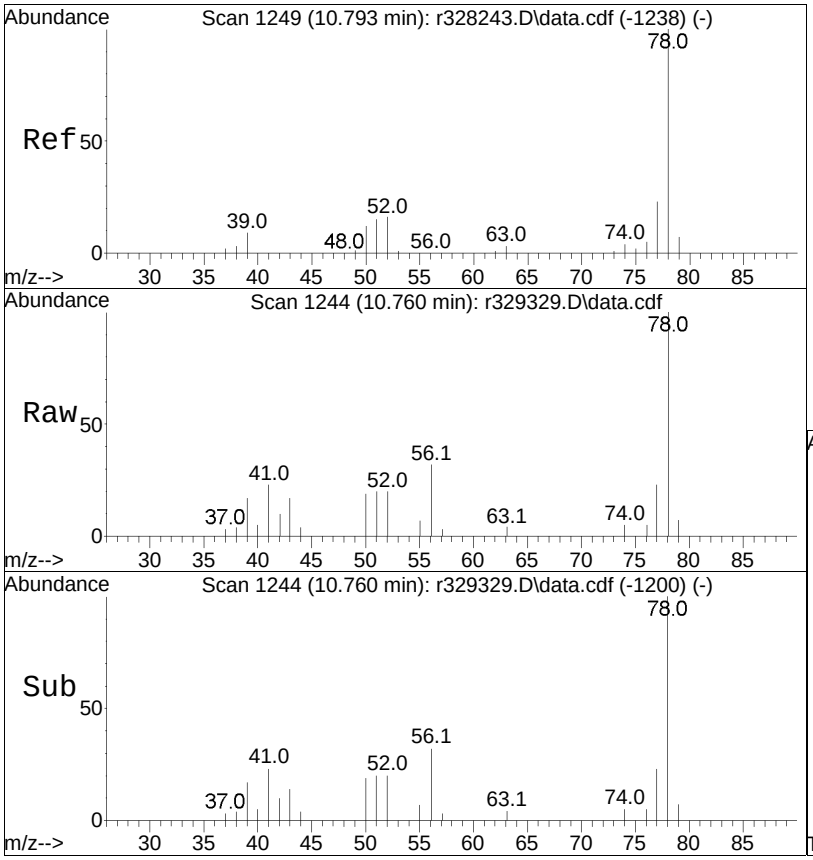


#44
hexane
Concen: 0.09 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 57 Resp: 2576

Ion	Ratio	Lower	Upper
57	100		
43	62.3	145.3	217.9#
86	20.0	14.3	21.5

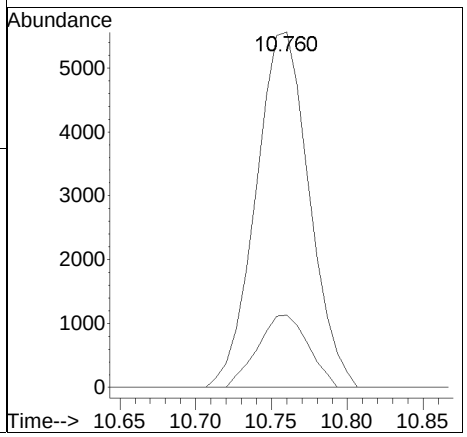


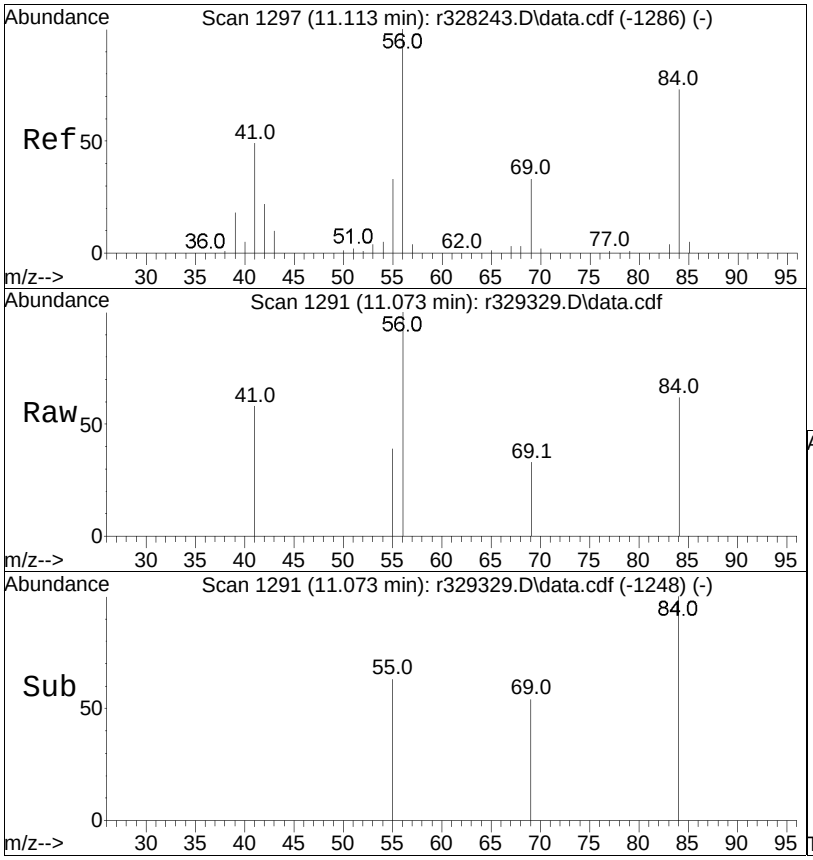


#50
benzene
Concen: 0.27 ppbV
RT: 10.760 min Scan# 1244
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 78 Resp: 13625

Ion	Ratio	Lower	Upper
78	100		
52	20.3	12.4	18.6#

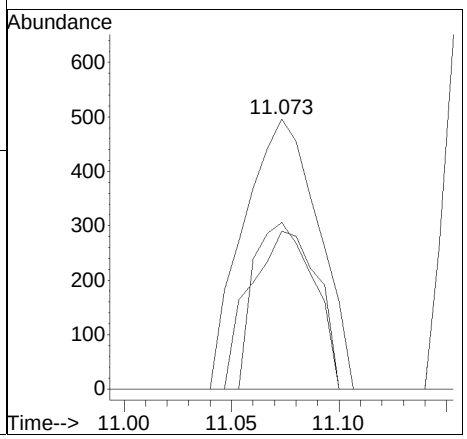


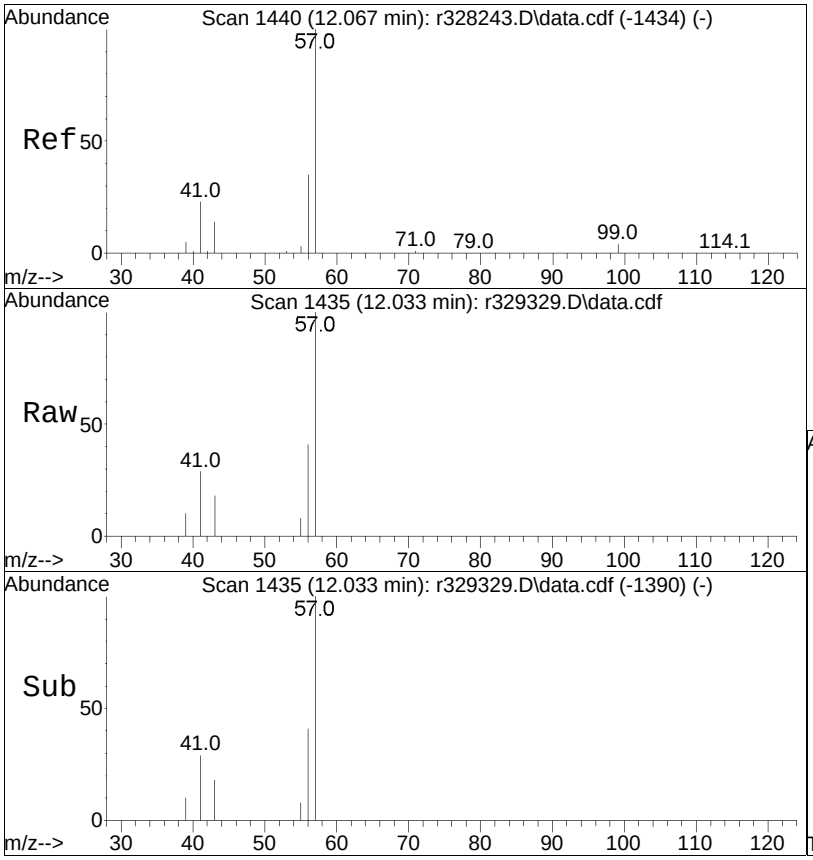


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.073 min Scan# 1291
Delta R.T. -0.040 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 56 Resp: 1196

Ion	Ratio	Lower	Upper
56	100		
84	61.7	58.7	88.1
41	58.5	39.6	59.4

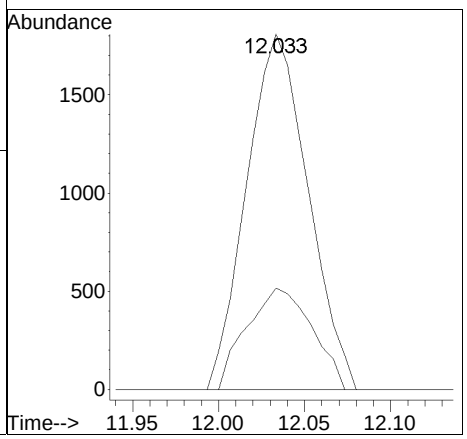


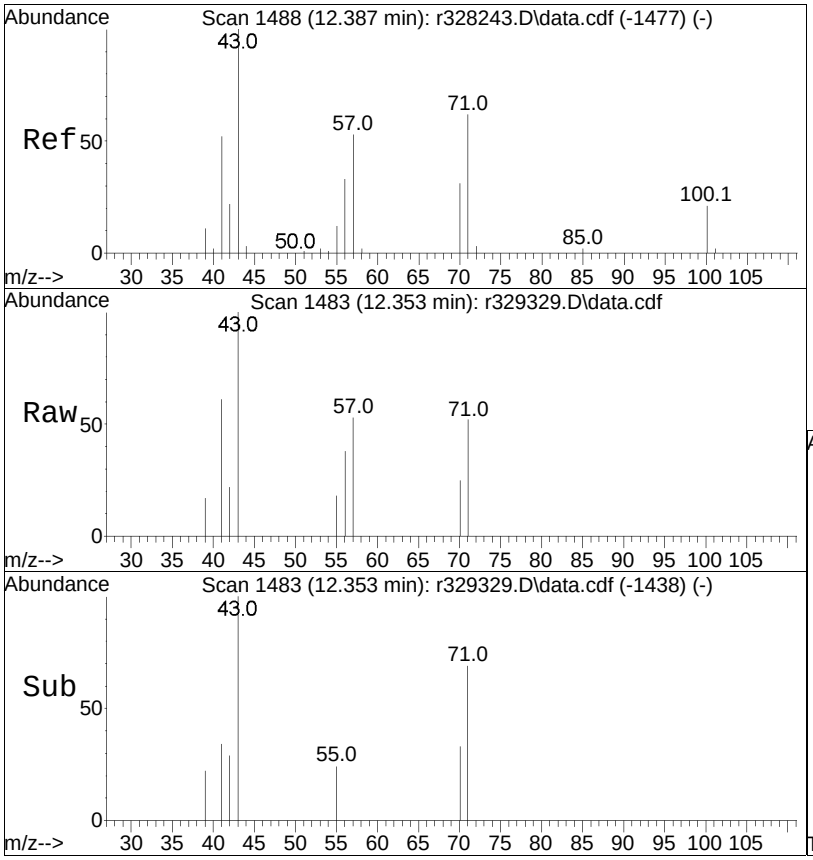


#60
2,2,4-trimethylpentane
Concen: 0.05 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 57 Resp: 4500

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	28.5	18.2	27.4#

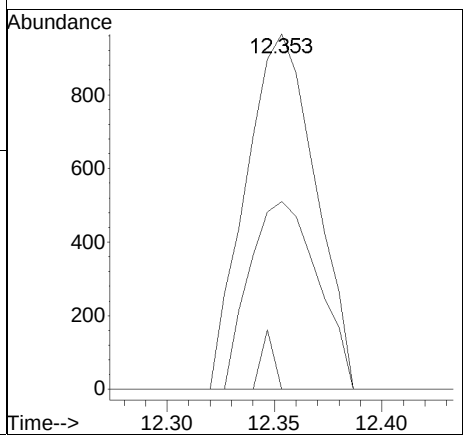


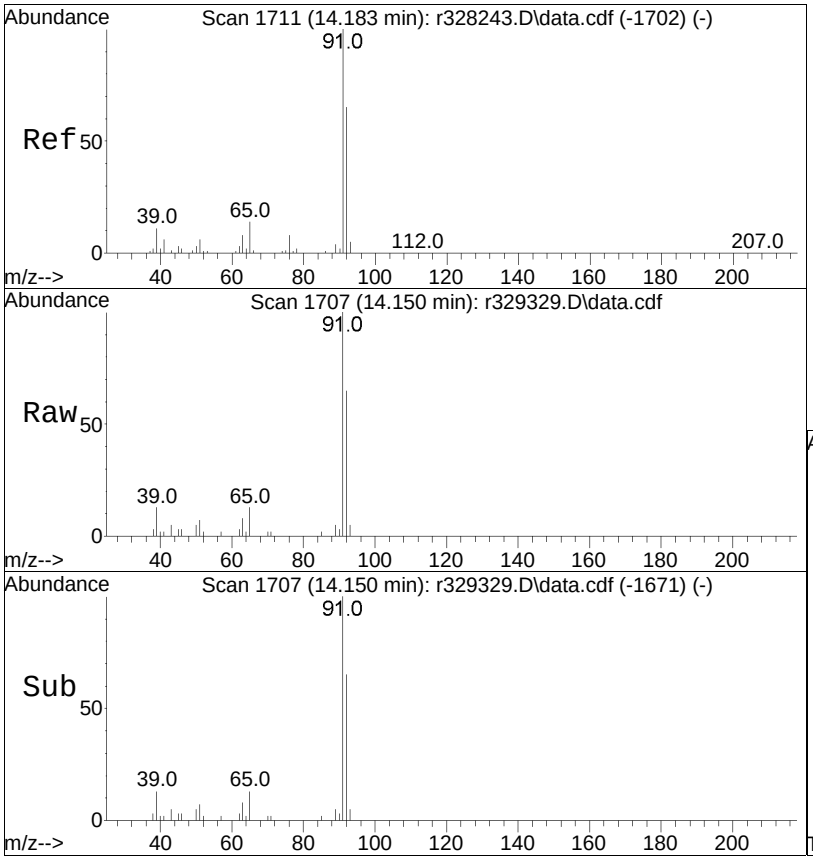


#62
heptane
Concen: 0.07 ppbV
RT: 12.353 min Scan# 1483
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 43 Resp: 2171

Ion	Ratio	Lower	Upper
43	100		
57	52.8	42.6	64.0
100	0.0	17.0	25.4#

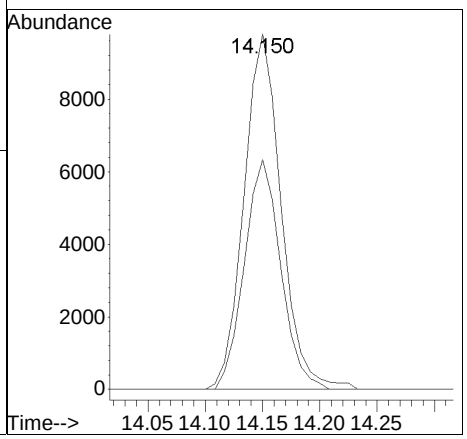


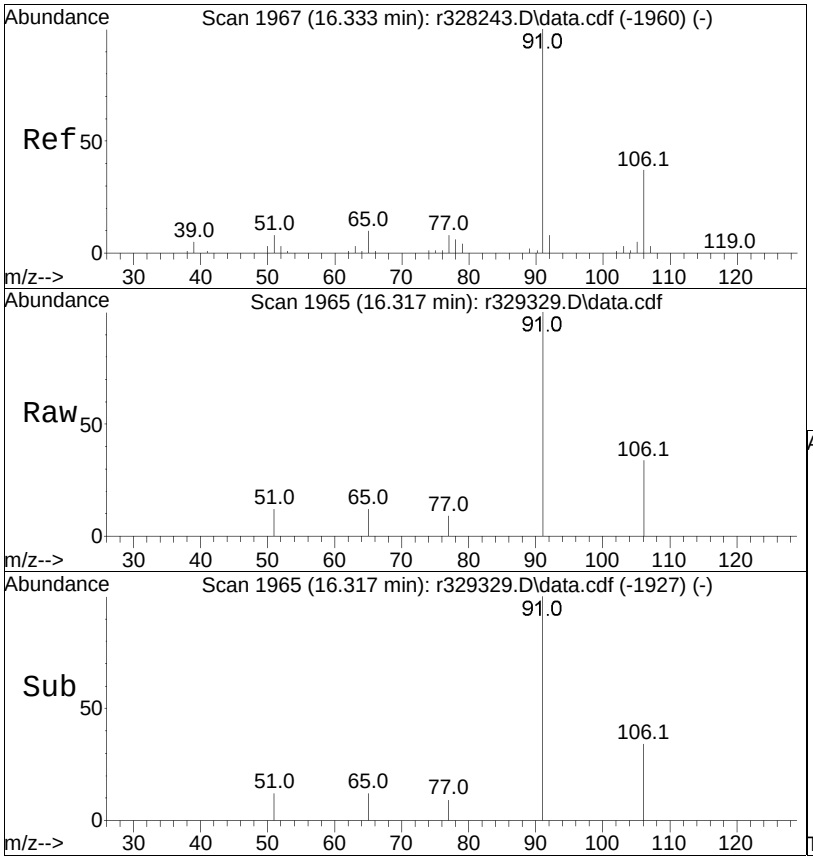


#68
toluene
Concen: 0.27 ppbV
RT: 14.150 min Scan# 1707
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 91 Resp: 22072

Ion	Ratio	Lower	Upper
91	100		
92	64.7	52.1	78.1

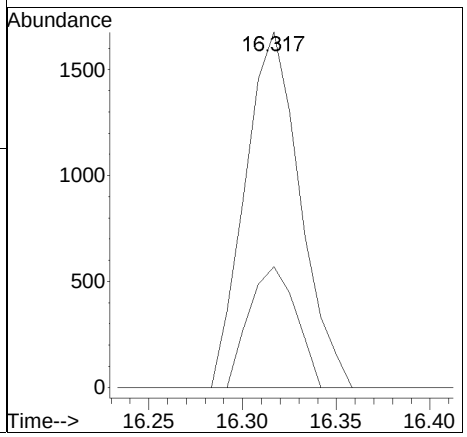


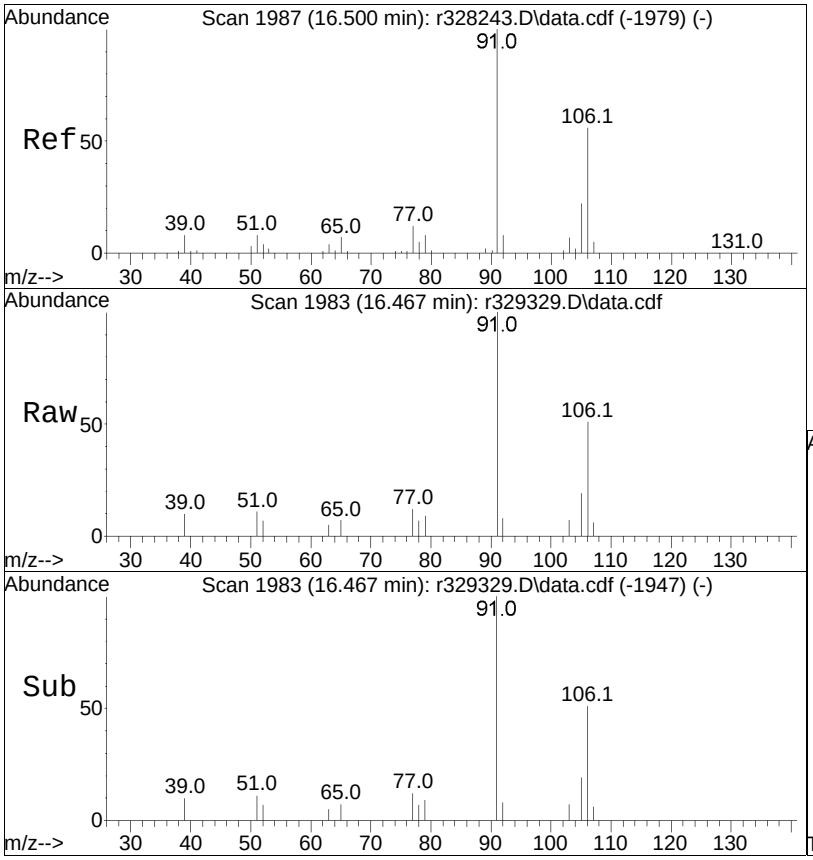


#81
ethylbenzene
Concen: 0.03 ppbV
RT: 16.317 min Scan# 1965
Delta R.T. -0.017 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 91 Resp: 3431

Ion	Ratio	Lower	Upper
91	100		
106	34.0	29.2	43.8

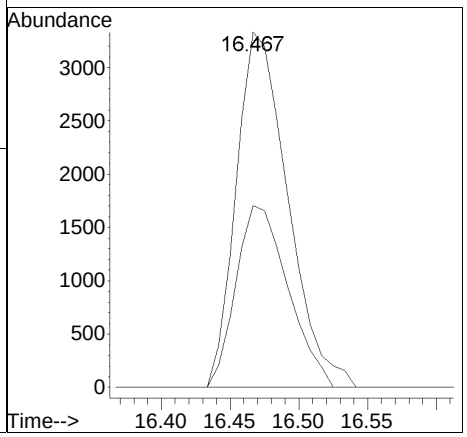


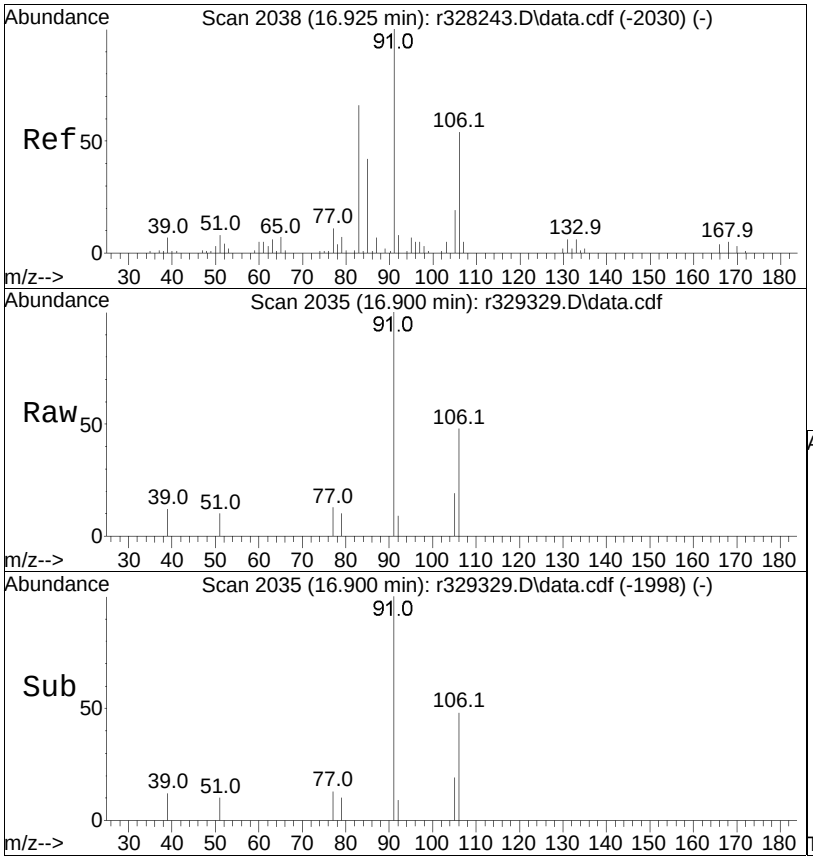


#83
m+p-xylene
Concen: 0.11 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 91 Resp: 8708

Ion	Ratio	Lower	Upper
91	100		
106	51.2	44.8	67.2

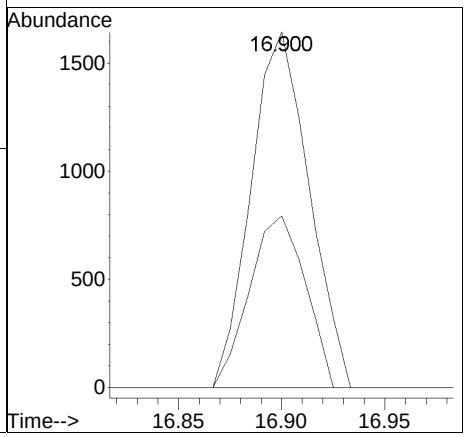


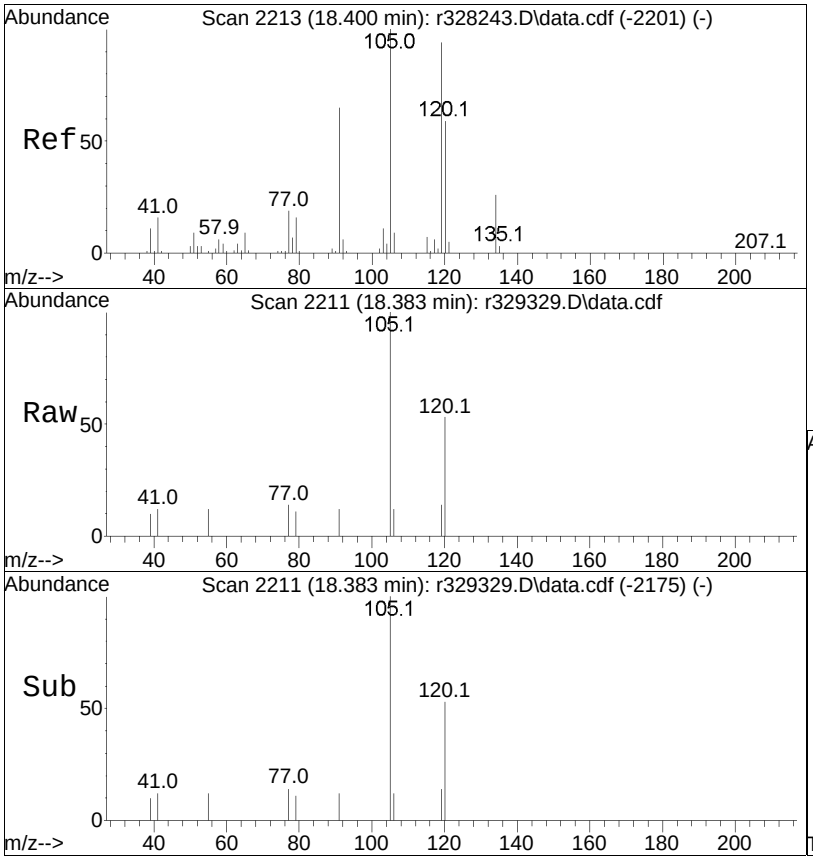


#87
o-xylene
Concen: 0.04 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 91 Resp: 3217

Ion	Ratio	Lower	Upper
91	100		
106	48.3	43.0	64.6

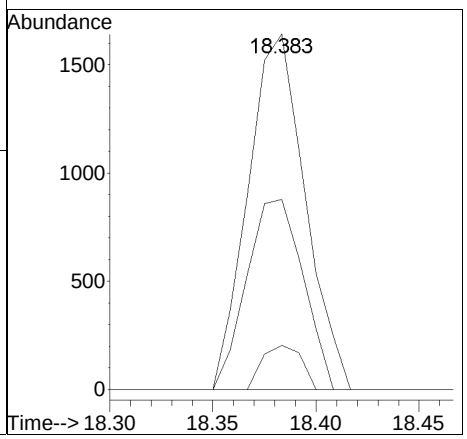




#99
1,2,4-trimethylbenzene
Concen: 0.03 ppbV
RT: 18.383 min Scan# 2211
Delta R.T. -0.017 min
Lab File: r329329.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion:105 Resp: 3158

Ion	Ratio	Lower	Upper
105	100		
120	53.5	47.1	70.7
91	12.4	51.8	77.6#

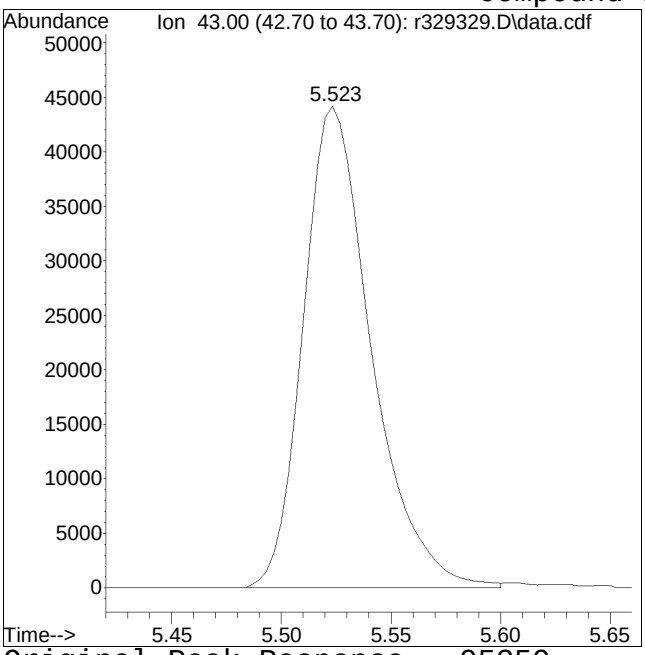


Manual Integration Report

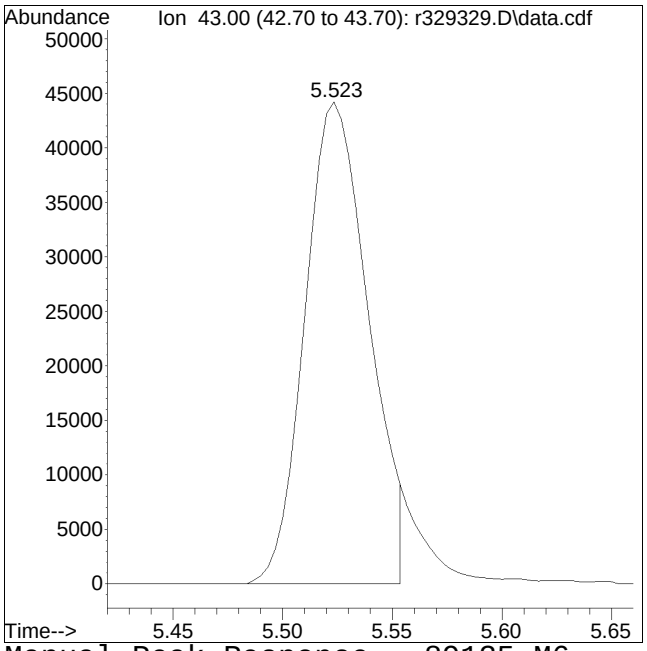
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329329.D
Date Inj'd : 2/26/2020 0:2: 5
Sample : L2409224-11,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:13 am

Compound #19: acetone



Original Peak Response = 95359



Manual Peak Response = 89135 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329337.D
Acq On : 26 Feb 2024 7:52 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07D,3,50,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 09:31:05 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : ETOH_Only - Sub List Unknown

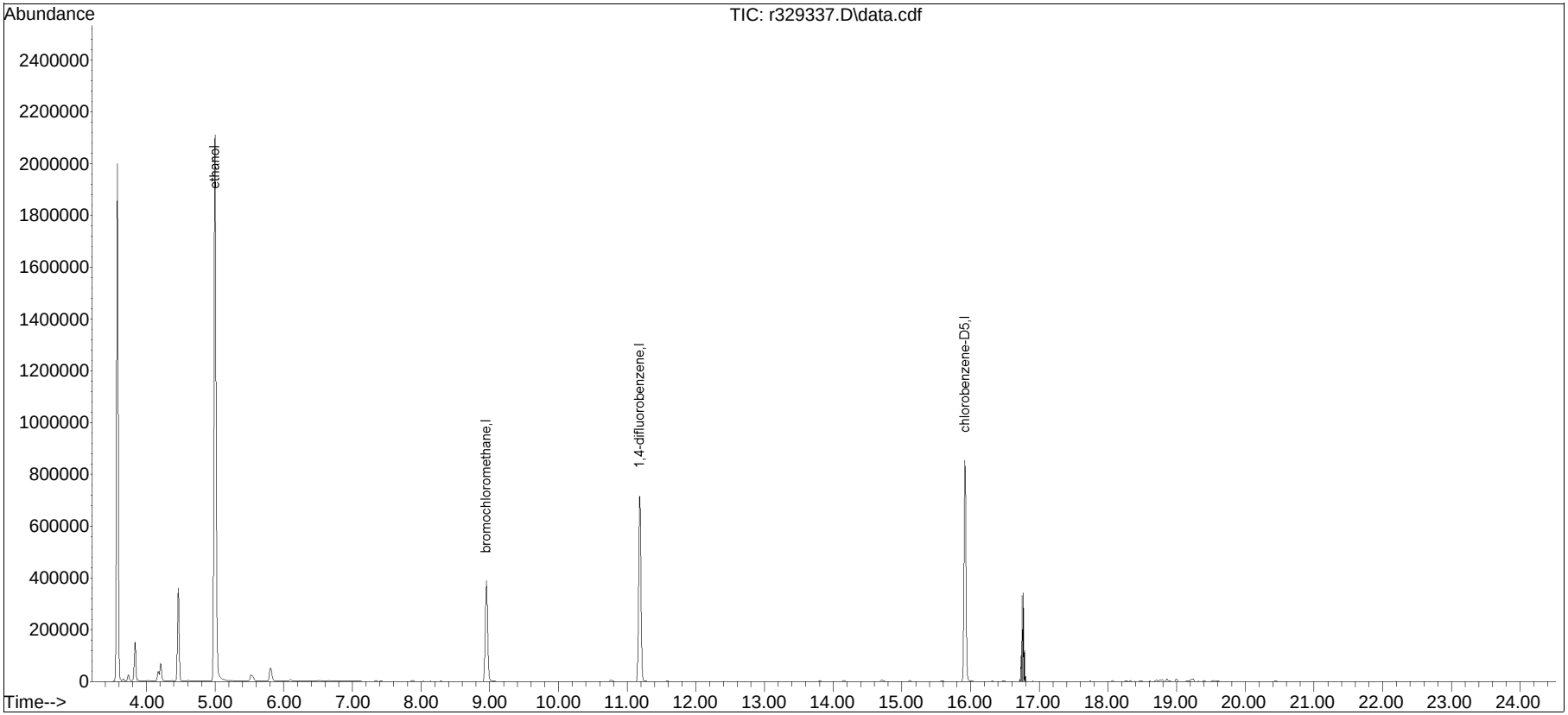
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	269629	10.000	ppbV	-0.04
Standard Area = 280213			Recovery = 96.22%			
43) 1,4-difluorobenzene	11.180	114	726320	10.000	ppbV	-0.04
Standard Area = 768332			Recovery = 94.53%			
67) chlorobenzene-D5	15.917	54	131972	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery = 92.21%			
System Monitoring Compounds						
Target Compounds						Qvalue
15) ethanol	4.998	31	1541762	143.516	ppbV	95

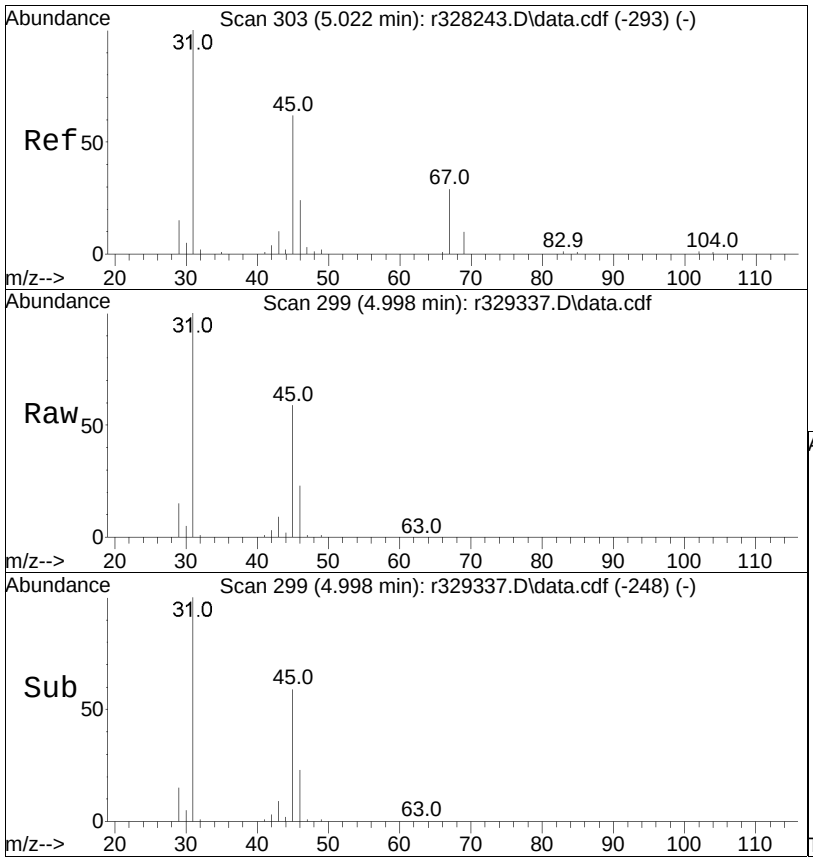
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : ETOH_Only - Sub List Unknown2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329337.D
Acq On : 26 Feb 2024 7:52 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07D,3,50,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 09:31:05 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

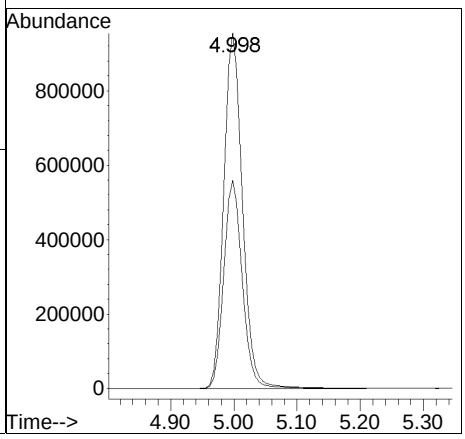




#15
ethanol
Concen: 143.52 ppbV
RT: 4.998 min Scan# 299
Delta R.T. -0.024 min
Lab File: r329337.D
Acq: 26 Feb 2024 7:52 AM

Tgt Ion: 31 Resp: 1541762

Ion	Ratio	Lower	Upper
31	100		
45	58.6	49.8	74.6



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TFS3_231230.M
Data File	: r329337.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/26/2020 0:7: 2	Instrument	:
Sample	: L2409224-07D,3,50,250	Quant Date	: 2/26/2024 9:31 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**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20743**
Calibration dates	**: 01/07/24 22:14 01/08/24 02:55**		

Calibration Files

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50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3)		propylene		0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49
4)		propane		0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27
5)		dichlorodifluoromethane	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6)	C	chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7)		Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8)	C	methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9)	C	vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10)	C	1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11)		butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12)	C	acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13)	C	bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14)	C	chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15)		ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16)		dichlorofluoromethane	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17)	C	vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18)	C	acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19)		acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20)	C	acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21)		trichlorofluoromethane	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22)		isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23)	C	acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24)		pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25)		ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26)	C	1,1-dichloroethene	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27)		tertiary butyl alcohol		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28)	C	methylene chloride		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29)	C	3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30)	C	carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31)		Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92
32)		trans-1,2-dichloroethene	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33)	C	1,1-dichloroethane	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34)	C	MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35)	C	vinyl acetate			1.286	1.208	1.236	1.265	1.178	1.077	1.208	6.21
36)	C	2-butanone		1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222	6.52

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20743**
Calibration dates	**: 01/07/24 22:14 01/08/24 02:55**		

Calibration Files

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50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38)		Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39)	C	chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40)		Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41)		2,2-dichloropropane	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42)	C	1,2-dichloroethane	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45)		diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46)		tert-butyl ethyl ether	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47)	s	1,2-dichloroethane-D4	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48)	C	1,1,1-trichloroethane	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49)		1,1-dichloropropene	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50)	C	benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51)		thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52)	C	carbon tetrachloride	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53)		cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54)		tert-amyl methyl ether	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55)		dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56)	C	1,2-dichloropropane	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57)		bromodichloromethane	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58)	C	1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59)	C	trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60)	C	2,2,4-trimethylpentane	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61)		methyl methacrylate		0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62)		heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96
63)	C	cis-1,3-dichloropropene	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64)	C	4-methyl-2-pentanone		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65)		trans-1,3-dichloropropene	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66)	C	1,1,2-trichloroethane	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69)	s	toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70)		2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71)		1,3-dichloropropane	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72)		2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20743**
Calibration dates	**: 01/07/24 22:14 01/08/24 02:55**		

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50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74)		dibromochloromethane	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75)	C	1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76)		butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77)		octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78)	C	tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79)		1,1,1,2-tetrachloroethane	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80)	C	chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81)	C	ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82)		2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83)	C	m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84)	C	bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85)	C	styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86)	C	1,1,2,2-tetrachloroethane	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87)	C	o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88)		1,2,3-trichloropropane	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89)		nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90)	s	bromofluorobenzene	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91)	C	isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92)		bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93)		2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62
94)		n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95)		4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96)		4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97)		1,3,5-trimethylbenzene	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98)		tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99)		1,2,4-trimethylbenzene	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100)		decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101)	C	Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102)		1,3-dichlorobenzene	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103)	C	1,4-dichlorobenzene	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104)		sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105)		1,2,3-trimethylbenzene	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106)		p-isopropyltoluene	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107)		1,2-dichlorobenzene	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108)		n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20743**
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50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110)		indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111)	C	1,2-dibromo-3-chloropr...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112)		undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113)		1,2,4,5-tetramethylben...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114)		dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115)	C	1,2,4-trichlorobenzene	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116)		naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117)		1,2,3-trichlorobenzene	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118)		benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119)	C	hexachlorobutadiene	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120)		2-methylnaphthalene			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121)		1-methylnaphthalene			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20782**
Calibration dates	**: 12/30/23 15:53 12/30/23 20:39**		

Calibration Files

0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D

50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoromethane	1.142	0.996	0.965	0.944	0.839	0.927	0.764	0.658	0.9044	16.47
3)		propylene		0.763	0.652	0.702	0.735	0.746	0.635	0.577	0.6870	9.91
4)		propane		0.811	0.758	0.731	0.699	0.729	0.615	0.526	0.6956	13.77
5)		dichlorodifluoromethane	1.411	1.322	1.282	1.309	1.212	1.134	0.910	0.735	1.1644	19.81
6)	C	chloromethane	0.657	0.615	0.596	0.619	0.588	0.582	0.499	0.436	0.5739	12.50
7)		Freon-114	1.689	1.617	1.564	1.622	1.516	1.431	1.123	0.861	1.4278	20.22
8)	C	methanol			0.331	0.305	0.283	0.292	0.239	0.194	0.2743	18.03
9)	C	vinyl chloride	0.933	0.870	0.844	0.877	0.819	0.773	0.628	0.519	0.7827	17.91
10)	C	1,3-butadiene	0.616	0.582	0.573	0.603	0.568	0.558	0.467	0.394	0.5451	13.92
11)		butane	1.553	1.452	1.377	1.310	1.250	1.303	1.110	0.939	1.2867	14.99
12)	C	acetaldehyde		0.361	0.343	0.341	0.307	0.283	0.222	0.173	0.2898	24.01
13)	C	bromomethane	0.641	0.611	0.588	0.622	0.590	0.565	0.463	0.381	0.5576	16.07
14)	C	chloroethane	0.472	0.442	0.421	0.442	0.417	0.406	0.335	0.278	0.4016	15.93
15)		ethanol			0.543	0.454	0.418	0.420	0.314	0.242	0.3984	26.66
16)		dichlorofluoromethane	1.705	1.594	1.506	1.450	1.432	1.437	1.051	0.765	1.3675	22.50
17)	C	vinyl bromide	0.755	0.710	0.675	0.696	0.666	0.640	0.520	0.524	0.6483	13.10
18)	C	acrolein		0.391	0.370	0.382	0.366	0.394	0.349	0.313	0.3666	7.68
19)		acetone	1.302	1.184	1.126	1.117	1.076	1.089	0.910	0.724	1.0660	16.54
20)	C	acetonitrile	0.938	0.825	0.790	0.779	0.746	0.784	0.672	0.743	0.7846	9.78
21)		trichlorofluoromethane	1.436	1.341	1.293	1.346	1.268	1.231	1.000	0.779	1.2118	17.86
22)		isopropyl alcohol	1.414	1.316	1.254	1.350	1.325	1.388	1.257	1.097	1.3002	7.65
23)	C	acrylonitrile	0.662	0.634	0.621	0.622	0.604	0.660	0.601	0.542	0.6183	6.19
24)		pentane	1.870	1.760	1.681	1.607	1.562	1.720	1.565	1.470	1.6543	7.76
25)		ethyl ether	1.430	1.320	1.302	1.481	1.482	1.702	1.363	1.173	1.4066	11.21
26)	C	1,1-dichloroethene	1.334	1.270	1.207	1.276	1.214	1.205	1.017	0.835	1.1698	14.01
27)		tertiary butyl alcohol		1.629	1.571	1.625	1.610	1.718	1.476	1.233	1.5516	10.20
28)	C	methylene chloride		0.857	0.808	0.825	0.795	0.797	0.717	0.648	0.7784	9.19
29)	C	3-chloropropene	1.252	1.154	1.121	1.199	1.173	1.227	1.138	1.045	1.1636	5.60
30)	C	carbon disulfide	2.176	2.092	2.088	2.266	2.280	2.403	2.134	1.795	2.1542	8.38
31)		Freon 113	1.587	1.486	1.382	1.470	1.409	1.400	1.185	0.953	1.3589	14.72
32)		trans-1,2-dichloroethene	1.335	1.283	1.224	1.285	1.237	1.255	1.084	0.905	1.2010	11.67
33)	C	1,1-dichloroethane	1.716	1.636	1.555	1.639	1.590	1.596	1.406	1.193	1.5413	10.80
34)	C	MTBE	2.154	2.045	1.971	2.089	2.033	2.109	1.881	1.614	1.9868	8.71
35)	C	vinyl acetate			1.696	1.666	1.653	1.768	1.682	1.554	1.6697	4.17
36)	C	2-butanone		1.646	1.628	1.811	1.784	1.861	1.728	1.577	1.7192	6.14

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20782**
Calibration dates	**: 12/30/23 15:53 12/30/23 20:39**		

Calibration Files

0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D

50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
37)		cis-1,2-dichloroethene	1.252	1.196	1.136	1.212	1.172	1.167	1.011	0.842	1.1234	11.93
38)		Ethyl Acetate	0.303	0.289	0.290	0.323	0.320	0.331	0.290	0.243	0.2986	9.31
39)	C	chloroform	1.358	1.285	1.250	1.326	1.266	1.252	1.082	0.895	1.2142	12.57
40)		Tetrahydrofuran	1.168	1.065	0.989	1.076	1.071	1.122	1.060	0.981	1.0666	5.81
41)		2,2-dichloropropane	1.111	1.047	1.002	1.032	1.003	1.071	0.908	0.735	0.9886	12.01
42)	C	1,2-dichloroethane	1.184	1.027	0.951	0.969	0.924	0.881	0.715	0.557	0.9009	21.28
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.504	0.490	0.464	0.489	0.469	0.467	0.391	0.323	0.4495	13.71
45)		diisopropyl ether	0.255	0.249	0.240	0.242	0.233	0.247	0.219	0.187	0.2339	9.34
46)		tert-butyl ethyl ether	0.929	0.896	0.863	0.877	0.846	0.890	0.753	0.634	0.8362	11.57
47)	s	1,2-dichloroethane-D4	0.470	0.475	0.464	0.466	0.453	0.426	0.380	0.335	0.4338	11.69
48)	C	1,1,1-trichloroethane	0.395	0.373	0.363	0.389	0.370	0.358	0.318	0.253	0.3524	13.21
49)		1,1-dichloropropene	0.374	0.353	0.346	0.348	0.337	0.363	0.330	0.296	0.3433	6.86
50)	C	benzene	0.917	0.845	0.807	0.855	0.832	0.840	0.781	0.701	0.8223	7.63
51)		thiophene	0.676	0.651	0.628	0.589	0.568	0.664	0.596	0.526	0.6122	8.44
52)	C	carbon tetrachloride	0.297	0.288	0.289	0.316	0.308	0.301	0.251	0.202	0.2814	13.37
53)		cyclohexane	0.523	0.504	0.475	0.498	0.481	0.485	0.428	0.380	0.4718	9.76
54)		tert-amyl methyl ether	0.776	0.753	0.729	0.740	0.734	0.793	0.720	0.639	0.7356	6.26
55)		dibromomethane	0.252	0.237	0.233	0.235	0.228	0.241	0.208	0.179	0.2265	10.12
56)	C	1,2-dichloropropane	0.359	0.343	0.330	0.358	0.349	0.351	0.311	0.266	0.3332	9.45
57)		bromodichloromethane	0.358	0.366	0.359	0.397	0.392	0.393	0.349	0.303	0.3645	8.53
58)	C	1,4-dioxane	0.176	0.183	0.178	0.198	0.191	0.197	0.179	0.160	0.1827	6.91
59)	C	trichloroethene	0.357	0.334	0.328	0.350	0.339	0.338	0.301	0.257	0.3255	9.91
60)	C	2,2,4-trimethylpentane	1.796	1.711	1.642	1.569	1.465	1.510	1.290	1.059	1.5052	15.82
61)		methyl methacrylate		0.299	0.299	0.342	0.341	0.354	0.323	0.293	0.3218	7.76
62)		heptane	0.561	0.547	0.529	0.554	0.547	0.565	0.517	0.467	0.5359	6.01
63)	C	cis-1,3-dichloropropene	0.379	0.378	0.381	0.439	0.436	0.446	0.410	0.372	0.4052	7.74
64)	C	4-methyl-2-pentanone		0.611	0.602	0.668	0.656	0.676	0.616	0.558	0.6267	6.73
65)		trans-1,3-dichloropropene	0.281	0.291	0.299	0.352	0.351	0.357	0.326	0.294	0.3188	9.80
66)	C	1,1,2-trichloroethane	0.334	0.323	0.306	0.336	0.326	0.324	0.287	0.255	0.3113	8.90
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	7.359	6.862	6.730	7.149	6.986	7.273	6.764	6.074	6.8996	5.88
69)	s	toluene-D8	0.935	0.937	0.930	0.932	0.933	0.965	1.005	1.042	0.9601	4.36
70)		2-methylthiophene	7.292	6.945	6.726	6.150	6.102	7.422	6.774	6.020	6.6789	8.11
71)		1,3-dichloropropane	3.166	3.062	3.000	3.021	3.021	3.462	3.357	3.103	3.1490	5.45
72)		2-hexanone	3.217	3.456	3.482	4.153	4.270	4.741	4.538	3.992	3.9811	13.79

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20782**
Calibration dates	**: 12/30/23 15:53 12/30/23 20:39**		

Calibration Files
0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D
50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
73)		3-methylthiophene	7.099	6.854	6.619	6.117	6.062	7.309	6.624	5.679	6.5453	8.50
74)		dibromochloromethane	2.065	2.059	2.142	2.523	2.606	2.814	2.662	2.340	2.4012	12.15
75)	C	1,2-dibromoethane	2.932	2.892	2.883	3.210	3.250	3.414	3.154	2.758	3.0615	7.40
76)		butyl acetate		0.814	0.894	0.983	1.024	1.193	1.186	1.123	1.0309	14.13
77)		octane	2.875	2.673	2.629	2.587	2.569	2.918	2.733	2.491	2.6845	5.57
78)	C	tetrachloroethene	3.013	2.869	2.776	2.931	2.987	3.062	2.720	2.250	2.8261	9.22
79)		1,1,1,2-tetrachloroethane	2.109	2.038	2.033	2.076	2.081	2.333	2.117	1.745	2.0663	7.77
80)	C	chlorobenzene	5.390	5.120	4.960	5.350	5.391	5.708	5.136	4.216	5.1591	8.60
81)	C	ethylbenzene	8.831	8.555	8.357	8.982	8.902	9.075	8.292	7.391	8.5482	6.43
82)		2-ethylthiophene	7.595	7.410	7.306	6.798	6.732	7.976	7.167	6.100	7.1355	8.16
83)	C	m+p-xylene	7.223	7.009	6.819	7.322	7.197	7.280	6.439	5.421	6.8388	9.42
84)	C	bromoform	1.600	1.621	1.755	2.270	2.463	2.733	2.535	2.108	2.1356	20.48
85)	C	styrene	5.179	5.234	5.211	5.994	6.114	6.401	5.826	5.122	5.6350	8.98
86)	C	1,1,2,2-tetrachloroethane	4.627	4.468	4.427	4.914	4.899	5.187	4.788	3.885	4.6495	8.56
87)	C	o-xylene	7.380	7.034	6.853	7.400	7.233	7.227	6.223	4.934	6.7855	12.38
88)		1,2,3-trichloropropane	3.614	3.482	3.510	3.560	3.593	4.084	3.879	3.527	3.6561	5.81
89)		nonane	5.648	5.392	5.287	5.434	5.467	6.142	5.779	5.108	5.5321	5.80
90)	s	bromofluorobenzene	6.069	6.060	5.962	6.044	6.042	6.013	6.163	6.449	6.1002	2.49
91)	C	isopropylbenzene	9.180	8.878	8.597	8.872	8.801	9.615	8.404	6.925	8.6591	9.13
92)		bromobenzene	4.972	4.777	4.689	4.742	4.774	5.402	5.042	4.432	4.8538	5.93
93)		2-chlorotoluene	2.573	2.415	2.430	2.476	2.472	2.813	2.644	2.346	2.5210	5.96
94)		n-propylbenzene	2.744	2.801	2.770	2.885	2.867	3.258	3.029	2.535	2.8611	7.46
95)		4-chlorotoluene	2.324	2.424	2.368	2.397	2.400	2.667	2.521	2.306	2.4258	4.85
96)		4-ethyl toluene	0.872	0.888	0.880	0.962	0.970	1.001	0.870	0.712	0.8944	10.00
97)		1,3,5-trimethylbenzene	8.446	7.920	7.977	8.581	8.455	8.574	7.361	6.035	7.9187	10.98
98)		tert-butylbenzene	8.568	8.401	8.106	8.314	8.135	8.607	6.744	5.014	7.7361	16.14
99)		1,2,4-trimethylbenzene	8.189	7.834	7.923	8.813	8.613	8.316	6.558	4.915	7.6450	16.98
100)		decane	7.295	7.088	7.116	7.220	7.165	7.719	6.808	5.763	7.0215	8.10
101)	C	Benzyl Chloride	3.056	3.284	3.810	4.988	5.450	6.080	5.698	4.884	4.6564	24.44
102)		1,3-dichlorobenzene	4.505	4.989	5.296	5.783	5.762	5.750	4.916	4.102	5.1378	12.20
103)	C	1,4-dichlorobenzene	4.789	5.095	5.017	5.837	5.745	5.633	4.994	3.914	5.1282	12.25
104)		sec-butylbenzene	1.191	1.148	1.131	1.156	1.147	1.220	1.024	0.801	1.1022	12.19
105)		1,2,3-trimethylbenzene	8.075	7.664	7.504	8.096	7.813	7.675	6.088	4.620	7.1920	16.92
106)		p-isopropyltoluene	1.029	0.992	0.984	1.014	0.979	1.026	0.805	0.575	0.9256	17.18
107)		1,2-dichlorobenzene	5.072	4.840	4.963	5.455	5.465	5.441	4.876	4.067	5.0223	9.31
108)		n-butylbenzene	8.699	8.757	8.686	9.000	8.860	9.584	8.368	7.048	8.6253	8.42

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20782**
Calibration dates	**: 12/30/23 15:53 12/30/23 20:39**		

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50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
109)		indan	7.702	7.616	7.625	8.267	8.236	8.431	7.250	5.776	7.6130	11.10
110)		indene	4.869	4.829	4.963	5.557	5.621	5.904	5.336	4.519	5.1998	9.15
111)	C	1,2-dibromo-3-chloropropane	1.630	1.707	1.808	1.932	2.012	2.261	2.022	1.711	1.8853	11.19
112)		undecane	7.505	7.794	7.900	8.193	8.081	8.614	7.368	6.108	7.6954	9.77
113)		1,2,4,5-tetramethylbenzene	0.843	0.824	0.822	0.911	0.907	0.952	0.925	0.908	0.8864	5.58
114)		dodecane	5.809	6.936	7.445	8.161	8.260	8.371	7.294	6.135	7.3013	13.24
115)	C	1,2,4-trichlorobenzene	3.275	3.644	3.860	4.716	4.882	4.995	4.484	3.596	4.1817	15.88
116)		naphthalene	0.894	0.960	1.009	0.969	0.994	1.174	1.038	0.865	0.9880	9.58
117)		1,2,3-trichlorobenzene	3.455	3.668	3.804	3.711	3.796	4.519	4.062	3.409	3.8031	9.34
118)		benzothiophene	1.778	2.052	2.126	2.053	2.156	2.390	1.832	1.268	1.9568	17.24
119)	C	hexachlorobutadiene	4.047	4.117	4.066	4.617	4.580	4.306	3.516	2.703	3.9940	15.68
120)		2-methylnaphthalene			3.619	4.012	4.656	5.301	4.716	3.864	4.3614	14.56
121)		1-methylnaphthalene			5.126	5.573	6.174	6.034	5.162	4.005	5.3456	14.71

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------									
2)		chlorodifluoro...	0.960	0.913	0.891	0.802	0.826	0.846	0.782	0.731	0.844	8.87
3)		propylene		0.692	0.565	0.433	0.423	0.418	0.401	0.368	0.471	24.49
4)		propane		0.701	0.688	0.610	0.595	0.622	0.589	0.562	0.624	8.27
5)		dichlorodifluo...	1.107	0.987	0.995	0.992	0.964	0.927	0.856	0.754	0.948	11.13
6)	C	chloromethane	0.563	0.530	0.529	0.516	0.513	0.493	0.460	0.424	0.504	8.67
7)		Freon-114	1.331	1.233	1.231	1.217	1.182	1.133	1.011	0.895	1.154	12.09
8)	C	methanol			0.287	0.246	0.246	0.261	0.245	0.232	0.253	7.55
9)	C	vinyl chloride	0.589	0.550	0.530	0.530	0.528	0.511	0.480	0.462	0.523	7.54
10)	C	1,3-butadiene	0.520	0.488	0.471	0.452	0.451	0.439	0.404	0.373	0.450	10.30
11)		butane	0.953	0.826	0.814	0.742	0.739	0.755	0.689	0.642	0.770	12.37
12)	C	acetaldehyde		0.383	0.378	0.361	0.344	0.338	0.303	0.256	0.338	13.32
13)	C	bromomethane	0.484	0.447	0.441	0.435	0.436	0.423	0.397	0.370	0.429	7.95
14)	C	chloroethane	0.278	0.252	0.247	0.241	0.240	0.235	0.223	0.215	0.241	7.91
15)		ethanol			0.555	0.415	0.439	0.425	0.387	0.347	0.428	16.44
16)		dichlorofluoro...	1.024	0.939	0.918	0.835	0.836	0.865	0.800	0.738	0.869	10.23
17)	C	vinyl bromide	0.454	0.431	0.419	0.417	0.414	0.412	0.388	0.360	0.412	6.82
18)	C	acrolein		0.319	0.243	0.235	0.233	0.249	0.236	0.226	0.249	12.72
19)		acetone	0.763	0.691	0.684	0.580	0.576	0.579	0.527	0.470	0.609	15.83
20)	C	acetonitrile	0.495	0.461	0.438	0.396	0.404	0.427	0.401	0.378	0.425	9.08
21)		trichlorofluor...	0.830	0.780	0.777	0.763	0.761	0.747	0.692	0.650	0.750	7.42
22)		isopropyl alcohol	0.896	0.826	0.807	0.794	0.799	0.803	0.736	0.668	0.791	8.38
23)	C	acrylonitrile	0.559	0.488	0.465	0.429	0.440	0.463	0.436	0.414	0.462	9.92
24)		pentane	0.983	1.002	0.969	0.874	0.869	0.916	0.843	0.824	0.910	7.45
25)		ethyl ether	1.071	0.985	0.951	0.876	0.870	0.937	0.982	0.952	0.953	6.75
26)	C	1,1-dichloroet...	0.756	0.688	0.687	0.686	0.680	0.681	0.632	0.602	0.676	6.66
27)		tertiary butyl...		0.985	0.965	0.899	0.901	0.940	0.895	0.860	0.921	4.79
28)	C	methylene chlo...		0.681	0.673	0.642	0.636	0.739	0.682	0.640	0.670	5.41
29)	C	3-chloropropene	0.882	0.812	0.745	0.737	0.747	0.743	0.688	0.636	0.749	9.89
30)	C	carbon disulfide	1.832	1.689	1.701	1.707	1.736	1.723	1.564	1.396	1.668	7.93
31)		Freon 113	1.103	0.999	1.002	1.007	0.990	0.968	0.887	0.815	0.971	8.92

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dich...	0.751	0.739	0.724	0.710	0.715	0.710	0.660	0.621	0.704	6.09
33)	C	1,1-dichloroet...	0.986	0.924	0.910	0.905	0.905	0.888	0.825	0.766	0.889	7.47
34)	C	MTBE	1.456	1.376	1.347	1.326	1.321	1.316	1.234	1.130	1.313	7.36
35)	C	vinyl acetate			1.286	1.208	1.236	1.265	1.178	1.077	1.208	6.21
36)	C	2-butanone			1.293	1.295	1.227	1.241	1.231	1.213	1.057	1.222	6.52
37)		cis-1,2-dichlo...	0.727	0.676	0.681	0.675	0.675	0.664	0.616	0.582	0.662	6.68
38)		Ethyl Acetate	0.172	0.170	0.174	0.172	0.172	0.172	0.167	0.160	0.170	2.61
39)	C	chloroform	1.061	0.974	0.964	0.961	0.950	0.935	0.867	0.806	0.940	8.07
40)		Tetrahydrofuran	0.729	0.699	0.713	0.703	0.713	0.709	0.665	0.616	0.693	5.20
41)		2,2-dichloropr...	0.826	0.765	0.756	0.720	0.721	0.752	0.699	0.651	0.736	7.01
42)	C	1,2-dichloroet...	0.655	0.584	0.548	0.527	0.528	0.514	0.478	0.450	0.536	11.81
43)	I	1,4-difluorobenzene	----------ISTD----------									
44)	C	hexane	0.375	0.344	0.336	0.327	0.325	0.329	0.312	0.299	0.331	6.79
45)		diisopropyl ether	0.194	0.182	0.173	0.165	0.166	0.175	0.170	0.167	0.174	5.63
46)		tert-butyl eth...	0.626	0.592	0.596	0.558	0.558	0.592	0.567	0.554	0.580	4.39
47)	s	1,2-dichloroet...	0.311	0.308	0.312	0.309	0.304	0.300	0.298	0.298	0.305	1.89
48)	C	1,1,1-trichlor...	0.315	0.283	0.283	0.284	0.286	0.284	0.293	0.277	0.288	4.09
49)		1,1-dichloropr...	0.353	0.317	0.322	0.302	0.304	0.320	0.300	0.282	0.312	6.71
50)	C	benzene	0.827	0.760	0.759	0.750	0.751	0.737	0.693	0.651	0.741	6.95
51)		thiophene	0.605	0.570	0.551	0.486	0.486	0.559	0.532	0.512	0.538	7.76
52)	C	carbon tetrach...	0.283	0.267	0.259	0.272	0.280	0.281	0.269	0.258	0.271	3.54
53)		cyclohexane	0.399	0.362	0.355	0.349	0.348	0.352	0.335	0.331	0.354	5.91
54)		tert-amyl meth...	0.638	0.604	0.591	0.564	0.567	0.600	0.566	0.540	0.584	5.24
55)		dibromomethane	0.221	0.208	0.199	0.190	0.191	0.202	0.190	0.184	0.198	6.04
56)	C	1,2-dichloropr...	0.238	0.229	0.230	0.232	0.233	0.231	0.218	0.210	0.228	3.91
57)		bromodichlorom...	0.365	0.334	0.334	0.348	0.356	0.361	0.348	0.335	0.348	3.56
58)	C	1,4-dioxane	0.149	0.140	0.139	0.143	0.144	0.147	0.141	0.139	0.143	2.61
59)	C	trichloroethene	0.297	0.286	0.283	0.287	0.286	0.284	0.271	0.263	0.282	3.70
60)	C	2,2,4-trimethy...	1.310	1.222	1.206	1.042	1.041	1.041	0.985	0.943	1.099	11.83
61)		methyl methacr...			0.243	0.243	0.247	0.253	0.258	0.249	0.238	0.247	2.76
62)		heptane	0.513	0.480	0.476	0.474	0.472	0.471	0.436	0.404	0.466	6.96

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichlo...	0.388	0.362	0.364	0.379	0.384	0.382	0.365	0.345	0.371	3.95
64)	C	4-methyl-2-pen...		0.578	0.554	0.565	0.570	0.571	0.533	0.496	0.552	5.23
65)		trans-1,3-dich...	0.285	0.278	0.272	0.298	0.305	0.306	0.294	0.283	0.290	4.28
66)	C	1,1,2-trichlor...	0.265	0.264	0.257	0.259	0.259	0.254	0.238	0.229	0.253	5.08
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	6.095	5.683	5.705	5.569	5.598	5.545	5.080	4.706	5.498	7.69
69)	s	toluene-D8	7.594	7.365	7.714	7.475	7.396	7.424	7.240	7.105	7.414	2.57
70)		2-methylthiophene	6.163	5.693	5.765	4.877	4.896	5.649	5.120	4.681	5.356	9.90
71)		1,3-dichloropr...	3.042	2.844	2.882	2.707	2.696	2.864	2.644	2.405	2.760	6.97
72)		2-hexanone	3.334	3.301	3.441	3.787	3.854	3.958	3.611	3.241	3.566	7.74
73)		3-methylthiophene	6.028	5.564	5.642	4.809	4.789	5.570	5.049	4.621	5.259	9.65
74)		dibromochlorom...	2.158	2.137	2.249	2.350	2.462	2.562	2.387	2.264	2.321	6.34
75)	C	1,2-dibromoethane	3.014	2.857	2.900	2.936	2.918	2.903	2.653	2.425	2.826	6.81
76)		butyl acetate		0.590	0.618	0.633	0.651	0.694	0.651	0.606	0.635	5.42
77)		octane	2.232	2.079	2.070	1.909	1.907	2.042	1.922	1.806	1.996	6.76
78)	C	tetrachloroethene	2.453	2.269	2.226	2.222	2.233	2.215	2.054	1.889	2.195	7.48
79)		1,1,1,2-tetrac...	1.970	1.895	1.943	1.867	1.895	2.031	1.888	1.759	1.906	4.20
80)	C	chlorobenzene	5.323	4.891	4.868	4.852	4.831	4.765	4.366	3.881	4.722	9.04
81)	C	ethylbenzene	7.405	7.057	7.090	7.142	7.197	7.061	6.510	5.951	6.927	6.76
82)		2-ethylthiophene	6.479	6.023	6.278	5.453	5.515	6.298	5.648	5.123	5.852	8.29
83)	C	m+p-xylene	6.077	5.544	5.714	5.642	5.696	5.551	5.068	4.613	5.488	8.19
84)	C	bromoform	1.544	1.506	1.606	1.827	1.950	2.068	1.977	1.879	1.794	11.96
85)	C	styrene	4.860	4.631	4.680	4.846	4.954	4.838	4.409	3.935	4.644	7.19
86)	C	1,1,2,2-tetrac...	4.430	4.256	4.279	4.265	4.275	4.239	3.916	3.446	4.138	7.60
87)	C	o-xylene	6.004	5.639	5.762	5.678	5.683	5.565	5.068	4.540	5.492	8.48
88)		1,2,3-trichlor...	3.638	3.461	3.464	3.194	3.198	3.396	3.166	2.894	3.301	7.06
89)		nonane	5.953	5.674	5.693	5.243	5.202	5.356	4.726	4.066	5.239	11.54
90)	s	bromofluoroben...	4.465	4.405	4.746	4.618	4.573	4.626	4.422	4.467	4.540	2.63
91)	C	isopropylbenzene	8.398	7.778	7.897	7.290	7.167	7.540	6.770	5.940	7.347	10.26
92)		bromobenzene	4.724	4.446	4.502	4.135	4.125	4.376	4.046	3.649	4.250	7.82
93)		2-chlorotoluene	2.323	2.149	2.251	2.067	2.088	2.215	2.079	1.945	2.139	5.62

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Method File : TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r1737676.D 0.5 =r1737677.D 1.0 =r1737678.D 5.0 =r1737679.D 10 =r1737680.D 20 =r1737681.D
50 =r1737682.D 100 =r1737683.D

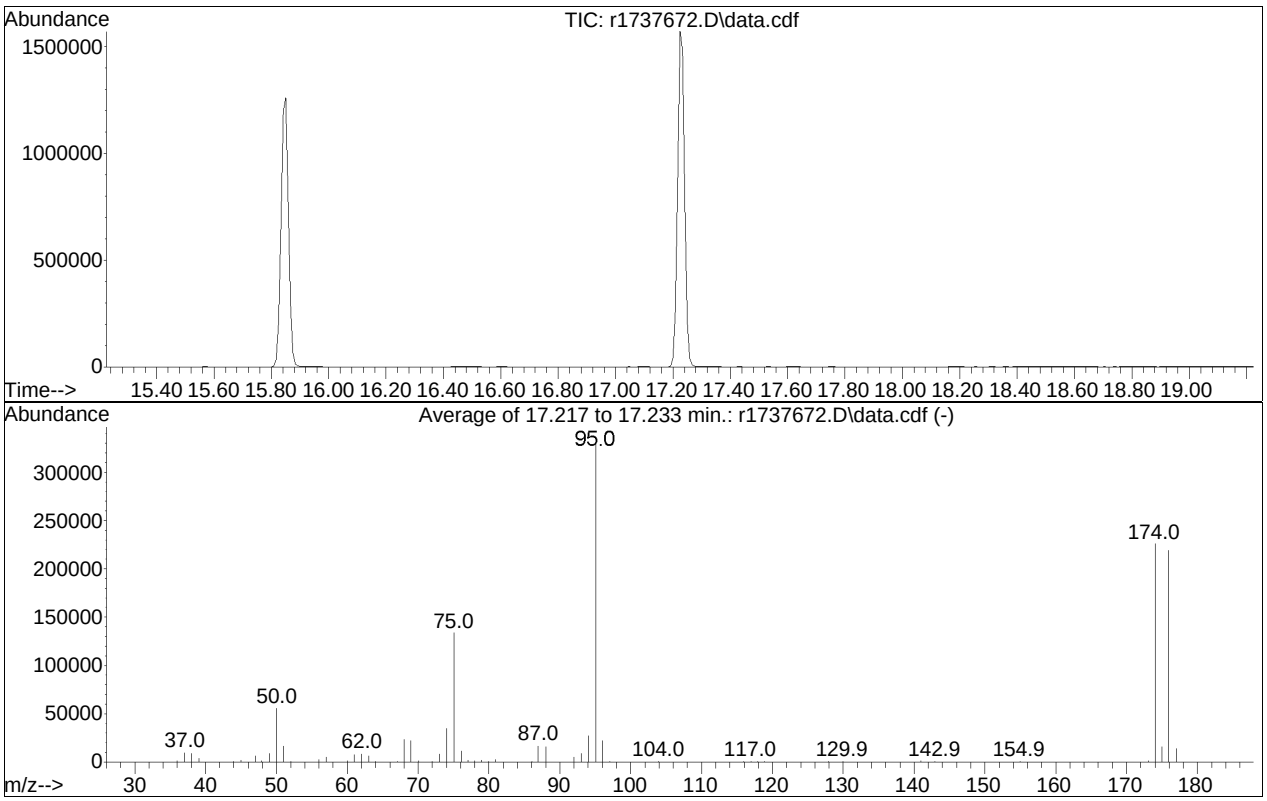
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.485	2.362	2.431	2.237	2.252	2.424	2.310	2.157	2.332	4.84
95)		4-chlorotoluene	2.165	2.055	2.052	1.995	2.023	2.133	2.032	1.911	2.046	3.85
96)		4-ethyl toluene	8.309	7.851	8.037	7.791	7.719	7.724	6.997	6.139	7.571	9.09
97)		1,3,5-trimethy...	7.379	6.716	6.961	6.848	6.703	6.533	5.878	5.213	6.529	10.41
98)		tert-butylbenzene	7.354	6.842	6.966	6.389	6.384	6.646	6.048	5.150	6.472	10.33
99)		1,2,4-trimethy...	7.235	6.906	6.906	6.793	6.770	6.527	5.837	5.004	6.497	11.20
100)		decane	5.412	5.109	5.185	4.800	4.807	5.073	4.740	4.349	4.934	6.66
101)	C	Benzyl Chloride	2.903	2.963	3.171	3.499	3.834	4.269	4.245	4.041	3.616	15.50
102)		1,3-dichlorobe...	4.141	3.825	3.987	4.000	4.100	4.026	3.752	3.422	3.907	6.02
103)	C	1,4-dichlorobe...	3.780	3.706	3.836	3.940	4.071	3.952	3.737	3.412	3.804	5.27
104)		sec-butylbenzene	1.039	0.996	1.012	0.907	0.898	0.933	0.849	0.733	0.921	10.81
105)		1,2,3-trimethy...	6.846	6.332	6.483	6.182	6.103	6.012	5.418	4.627	6.000	11.49
106)		p-isopropyltol...	9.067	8.440	8.470	7.656	7.689	7.974	7.241	6.128	7.833	11.44
107)		1,2-dichlorobe...	4.029	3.741	3.822	3.729	3.857	3.802	3.529	3.286	3.724	6.06
108)		n-butylbenzene	7.179	6.990	7.154	6.525	6.532	6.933	6.494	5.932	6.717	6.32
109)		indan	6.772	6.557	6.667	6.329	6.276	6.357	5.905	5.324	6.273	7.45
110)		indene	4.256	4.171	4.290	4.094	4.166	4.333	4.139	3.850	4.162	3.60
111)	C	1,2-dibromo-3-...	1.372	1.421	1.538	1.464	1.544	1.729	1.703	1.557	1.541	8.17
112)		undecane	5.546	5.368	5.544	5.133	5.151	5.477	5.143	4.777	5.267	5.06
113)		1,2,4,5-tetram...	0.685	0.653	0.657	0.634	0.654	0.663	0.649	0.632	0.653	2.55
114)		dodecane	4.878	5.061	5.229	4.908	5.126	5.401	5.161	4.753	5.065	4.15
115)	C	1,2,4-trichlor...	1.964	2.163	2.331	2.479	2.743	2.662	2.751	2.657	2.469	11.81
116)		naphthalene	6.483	6.456	7.164	6.088	6.591	7.391	7.578	7.123	6.859	7.66
117)		1,2,3-trichlor...	1.934	2.071	2.176	1.849	2.077	2.307	2.444	2.341	2.150	9.57
118)		benzothiophene	1.009	1.158	1.350	1.163	1.358	1.463	1.516	1.232	1.281	13.33
119)	C	hexachlorobuta...	2.370	2.418	2.481	2.466	2.551	2.361	2.270	2.131	2.381	5.56
120)		2-methylnaphth...			1.837	1.564	2.066	2.392	2.862	2.894	2.269	24.00
121)		1-methylnaphth...			2.612	2.391	2.985	2.928	3.417	3.419	2.959	14.07

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737672.D
Acq On : 7 Jan 2024 7:44 PM
Operator : AIRLAB17:RAY
Sample : WG1872080-1,3,250,250
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	55512	PASS
75	95	30	66	40.4	133582	PASS
95	95	100	100	100.0	330622	PASS
96	95	5	9	6.7	22066	PASS
173	174	0.00	2	0.6	1325	PASS
174	95	50	120	68.5	226367	PASS
175	174	4	9	7.0	15800	PASS
176	174	93	101	96.7	218996	PASS
177	176	5	9	6.5	14291	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	410424	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 96.34%			
43) 1,4-difluorobenzene	11.077	114	1091972	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 97.13%			
67) chlorobenzene-D5	15.842	54	148519	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 95.96%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	339963	10.242	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.42%			
69) toluene-D8	13.933	98	1127890	10.268	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.68%			
90) bromofluorobenzene	17.217	95	663170	9.765	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.65%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.772	51	7883	0.233	ppbV	99
3) propylene	3.802	41	8523M6	0.491	ppbV	
4) propane	3.826	29	7121	0.292	ppbV	97
5) dichlorodifluoromethane	3.868	85	9087	0.230	ppbV	99
6) chloromethane	4.024	50	4620	0.220	ppbV	97
7) Freon-114	4.126	85	10927	0.225	ppbV	99
8) methanol	4.180	31	14077	1.394	ppbV #	38
9) vinyl chloride	4.240	62	4834	0.223	ppbV	92
10) 1,3-butadiene	4.378	54	4269	0.230	ppbV	90
11) butane	4.432	43	7823	0.258	ppbV #	90
12) acetaldehyde	4.144	29	18030	1.277	ppbV #	75
13) bromomethane	4.642	94	3975	0.222	ppbV	99
14) chloroethane	4.822	64	2282	0.231	ppbV	90
15) ethanol	4.942	31	29001	1.609	ppbV	98
16) dichlorofluoromethane	4.930	67	8402	0.245	ppbV	95
17) vinyl bromide	5.187	106	3728	0.219	ppbV	94
18) acrolein	5.310	56	2565	0.268	ppbV #	31
19) acetone	5.453	43	31327	1.324	ppbV #	97
20) acetonitrile	5.170	41	4062	0.245	ppbV #	78
21) trichlorofluoromethane	5.637	101	6814	0.218	ppbV	97
22) isopropyl alcohol	5.717	45	18392	0.561	ppbV	98
23) acrylonitrile	5.950	53	4590	0.254	ppbV	88
24) pentane	6.023	43	8068	0.226	ppbV #	94

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.057	31	8793	0.246	ppbV		98
26) 1,1-dichloroethene	6.312	61	6204	0.222	ppbV		98
27) tertiary butyl alcohol	6.378	59	8474	0.229	ppbV	#	70
28) methylene chloride	6.456	49	7391	0.283	ppbV		95
29) 3-chloropropene	6.582	41	7236	0.236	ppbV		93
30) carbon disulfide	6.750	76	15037	0.211	ppbV	#	14
31) Freon 113	6.750	101	9058	0.223	ppbV		98
32) trans-1,2-dichloroethene	7.492	61	6168	0.210	ppbV		93
33) 1,1-dichloroethane	7.717	63	8093	0.218	ppbV		89
34) MTBE	7.800	73	11949	0.220	ppbV	#	89
35) vinyl acetate	7.908	43	11293	0.223	ppbV		98
36) 2-butanone	8.175	43	11383	0.223	ppbV		100
37) cis-1,2-dichloroethene	8.658	61	5968	0.215	ppbV		93
38) Ethyl Acetate	8.950	61	1413	0.200	ppbV	#	13
39) chloroform	8.992	83	8712	0.223	ppbV		100
40) Tetrahydrofuran	9.450	42	5984	0.205	ppbV		97
41) 2,2-dichloropropane	9.017	77	6782	0.229	ppbV		93
42) 1,2-dichloroethane	9.825	62	5378	0.248	ppbV	#	94
44) hexane	8.917	57	8186	0.230	ppbV	#	53
45) diisopropyl ether	8.925	87	4240	0.234	ppbV		86
46) tert-butyl ethyl ether	9.542	59	13674	0.224	ppbV		98
48) 1,1,1-trichloroethane	10.117	97	6883	0.220	ppbV		97
49) 1,1-dichloropropene	10.483	75	7704	0.232	ppbV		92
50) benzene	10.643	78	18054	0.220	ppbV		98
51) thiophene	10.790	84	13206	0.249	ppbV		96
52) carbon tetrachloride	10.817	117	6174	0.202	ppbV		93
53) cyclohexane	10.963	56	8713	0.229	ppbV		91
54) tert-amyl methyl ether	11.363	73	13927	0.225	ppbV		98
55) dibromomethane	11.563	93	4820	0.231	ppbV		98
56) 1,2-dichloropropane	11.597	63	5193	0.204	ppbV	#	93
57) bromodichloromethane	11.823	83	7968	0.205	ppbV		98
58) 1,4-dioxane	11.883	88	3247	0.206	ppbV		98
59) trichloroethene	11.877	130	6478	0.207	ppbV		94
60) 2,2,4-trimethylpentane	11.937	57	28608	0.252	ppbV		99
61) methyl methacrylate	12.137	41	5998	0.217	ppbV		95
62) heptane	12.257	43	11202	0.217	ppbV		100
63) cis-1,3-dichloropropene	12.900	75	8477	0.202	ppbV		94
64) 4-methyl-2-pentanone	12.958	43	13758	0.221	ppbV		98
65) trans-1,3-dichloropropene	13.525	75	6227	0.187	ppbV		93
66) 1,1,2-trichloroethane	13.725	97	5787	0.205	ppbV		95

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.050	91	18104	0.218	ppbV		97
70) 2-methylthiophene	14.117	97	18306	0.252	ppbV		98
71) 1,3-dichloropropane	14.075	76	9037	0.226	ppbV		99
72) 2-hexanone	14.375	43	9904	0.173	ppbV		96
73) 3-methylthiophene	14.317	97	17905	0.252	ppbV		96
74) dibromochloromethane	14.500	129	6411	0.175	ppbV		94
75) 1,2-dibromoethane	14.758	107	8954	0.207	ppbV		99
76) butyl acetate	15.042	73	1813	0.187	ppbV		90
77) octane	15.108	85	6630	0.234	ppbV	#	100
78) tetrachloroethene	15.225	166	7286	0.220	ppbV		95
79) 1,1,1,2-tetrachloroethane	15.867	131	5853	0.208	ppbV		96
80) chlorobenzene	15.875	112	15810	0.220	ppbV		99
81) ethylbenzene	16.233	91	21996	0.206	ppbV		97
82) 2-ethylthiophene	16.275	97	19245	0.235	ppbV		98
83) m+p-xylene	16.400	91	36103	0.427	ppbV		95
84) bromoform	16.458	173	4586	0.158	ppbV		93
85) styrene	16.725	104	14435	0.196	ppbV		99
86) 1,1,2,2-tetrachloroethane	16.817	83	13159	0.207	ppbV		99
87) o-xylene	16.817	91	17833	0.211	ppbV		96
88) 1,2,3-trichloropropane	16.933	75	10805	0.228	ppbV		97
89) nonane	17.033	43	17684	0.229	ppbV		100
91) isopropylbenzene	17.342	105	24944	0.234	ppbV		94
92) bromobenzene	17.408	77	14033	0.229	ppbV		94
93) 2-chlorotoluene	17.750	126	6900	0.223	ppbV		92
94) n-propylbenzene	17.775	120	7381	0.221	ppbV		87
95) 4-chlorotoluene	17.808	126	6430	0.214	ppbV		91
96) 4-ethyl toluene	17.900	105	24681	0.215	ppbV		98
97) 1,3,5-trimethylbenzene	17.967	105	21917	0.220	ppbV		96
98) tert-butylbenzene	18.308	119	21845	0.230	ppbV		97
99) 1,2,4-trimethylbenzene	18.308	105	21492	0.214	ppbV		95
100) decane	18.408	57	16077	0.225	ppbV		95
101) Benzyl Chloride	18.433	91	8624	0.151	ppbV		94
102) 1,3-dichlorobenzene	18.442	146	12301	0.202	ppbV		96
103) 1,4-dichlorobenzene	18.500	146	11227	0.186	ppbV		98
104) sec-butylbenzene	18.542	105	30866	0.231	ppbV		100
105) 1,2,3-trimethylbenzene	18.667	105	20336	0.224	ppbV		98
106) p-isopropyltoluene	18.675	119	26933	0.236	ppbV		99
107) 1,2-dichlorobenzene	18.792	146	11967	0.209	ppbV		97
108) n-butylbenzene	19.042	91	21325	0.220	ppbV		94
109) indan	18.842	117	20115	0.216	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

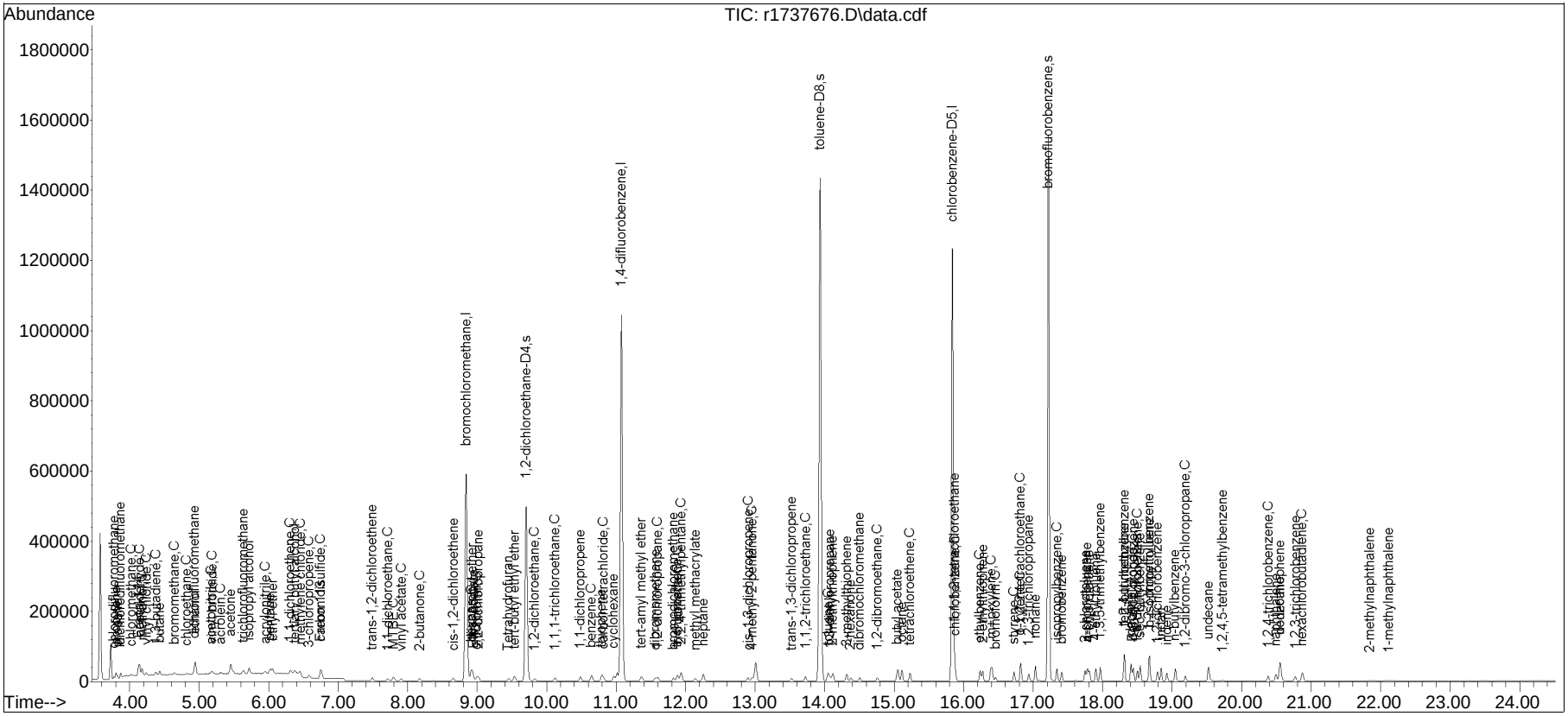
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.925	115	12642	0.204	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.192	75	4074	0.178	ppbV	97
112) undecane	19.525	57	16475	0.215	ppbV	95
113) 1,2,4,5-tetramethylben...	19.725	119	2034	0.210	ppbV	98
114) dodecane	20.550	57	14490	0.190	ppbV	98
115) 1,2,4-trichlorobenzene	20.383	180	5835	0.143	ppbV	94
116) naphthalene	20.492	128	19257	0.197	ppbV	99
117) 1,2,3-trichlorobenzene	20.775	180	5746	0.186	ppbV	92
118) benzothiophene	20.550	134	29982	0.149	ppbV	99
119) hexachlorobutadiene	20.867	225	7040	0.186	ppbV	94
120) 2-methylnaphthalene	21.842	142	2786M4	0.091	ppbV	
121) 1-methylnaphthalene	22.117	142	4785M4	0.108	ppbV	

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737676.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

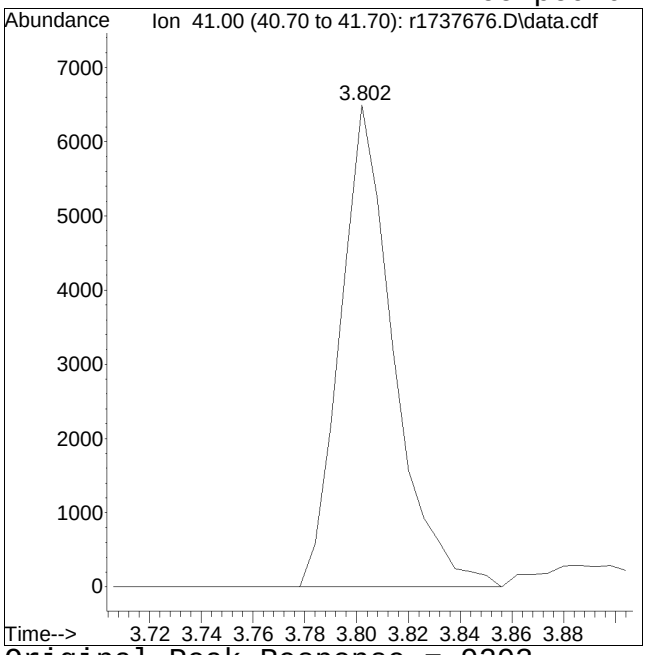


Manual Integration Report

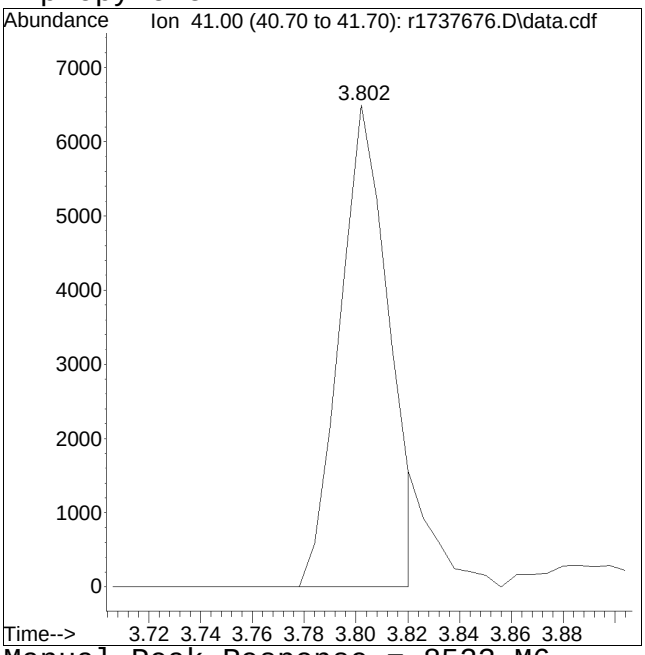
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737676.D
Date Inj'd : 1/7/2020 0:0: 4
Sample : ITO15-SIMSTD0.2

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 9293



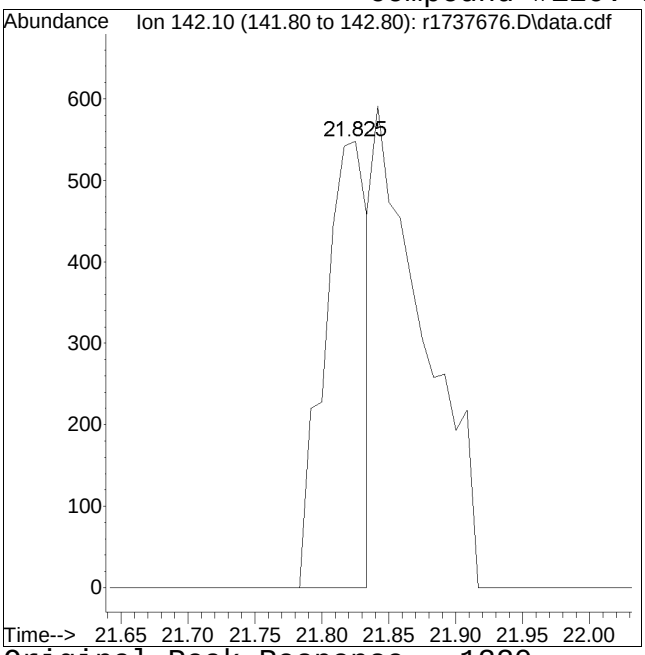
Manual Peak Response = 8523 M6

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

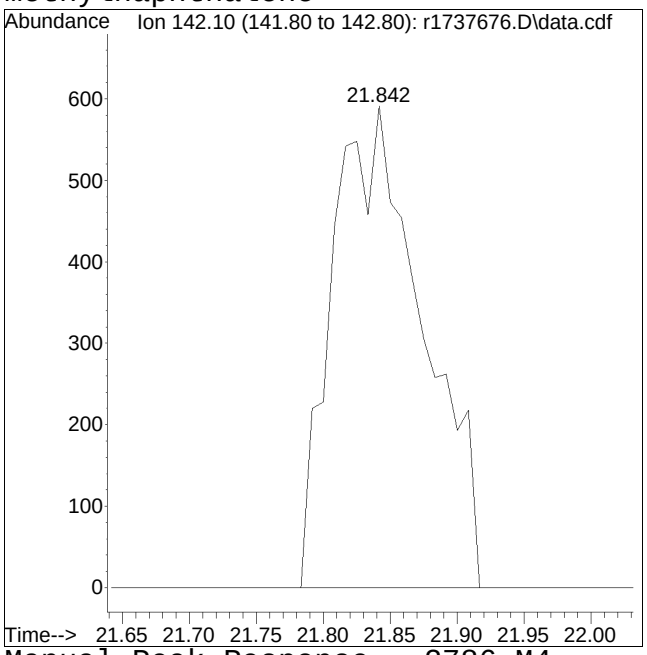
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #120: 2-methylnaphthalene



Original Peak Response = 1220



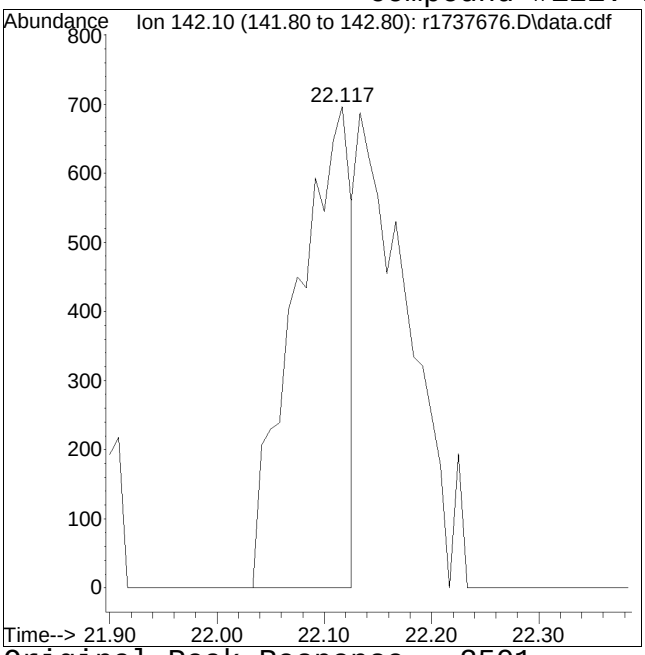
Manual Peak Response = 2786 M4

M4 = Poor automated baseline construction.

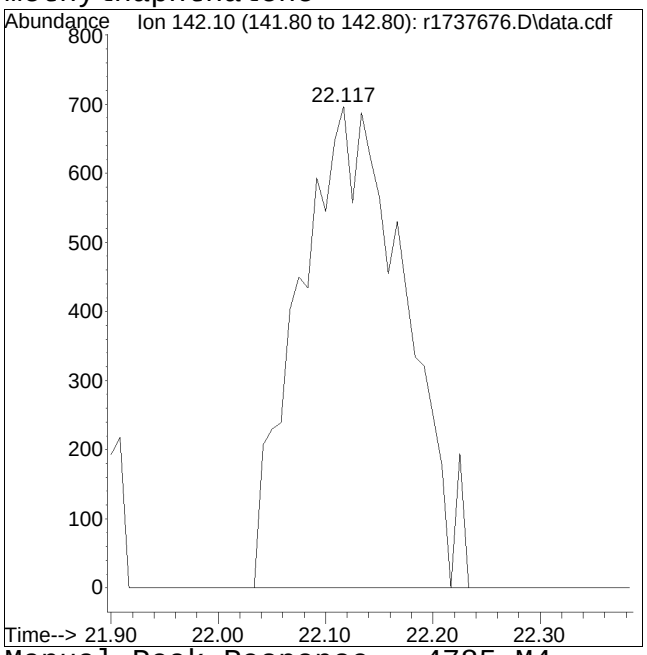
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737676.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 2:48 pm

Compound #121: 1-methylnaphthalene



Original Peak Response = 2501



Manual Peak Response = 4785 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	422548	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 99.19%			
43) 1,4-difluorobenzene	11.077	114	1125652	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 100.13%			
67) chlorobenzene-D5	15.833	54	154324	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 99.71%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	346469	10.126	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.26%			
69) toluene-D8	13.933	98	1136631	9.959	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.59%			
90) bromofluorobenzene	17.217	95	679787	9.633	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.33%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.772	51	19291	0.553	ppbV	96
3) propylene	3.802	41	14628M6	0.818	ppbV	
4) propane	3.826	29	14802	0.589	ppbV	98
5) dichlorodifluoromethane	3.868	85	20862	0.512	ppbV	99
6) chloromethane	4.024	50	11191	0.517	ppbV	96
7) Freon-114	4.126	85	26050	0.522	ppbV	96
8) methanol	4.174	31	31958	3.074	ppbV #	73
9) vinyl chloride	4.240	62	11616	0.521	ppbV	99
10) 1,3-butadiene	4.378	54	10316	0.541	ppbV	98
11) butane	4.432	43	17450	0.559	ppbV	97
12) acetaldehyde	4.144	29	40487	2.785	ppbV #	86
13) bromomethane	4.642	94	9451	0.514	ppbV	95
14) chloroethane	4.822	64	5322	0.524	ppbV	94
15) ethanol	4.942	31	58598	3.158	ppbV	97
16) dichlorofluoromethane	4.930	67	19846	0.562	ppbV	99
17) vinyl bromide	5.187	106	9098	0.520	ppbV	97
18) acrolein	5.310	56	6731	0.684	ppbV #	69
19) acetone	5.447	43	73027	2.999	ppbV #	99
20) acetonitrile	5.170	41	9748	0.572	ppbV	93
21) trichlorofluoromethane	5.637	101	16469	0.512	ppbV	99
22) isopropyl alcohol	5.710	45	43613	1.292	ppbV	99
23) acrylonitrile	5.943	53	10313	0.554	ppbV	92
24) pentane	6.023	43	21162	0.576	ppbV #	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.050	31	20802	0.566	ppbV		96
26) 1,1-dichloroethene	6.312	61	14527	0.506	ppbV		97
27) tertiary butyl alcohol	6.366	59	20815	0.547	ppbV	#	86
28) methylene chloride	6.450	49	14387	0.535	ppbV		99
29) 3-chloropropene	6.582	41	17157	0.543	ppbV		96
30) carbon disulfide	6.750	76	35675	0.486	ppbV	#	61
31) Freon 113	6.750	101	21101	0.505	ppbV		97
32) trans-1,2-dichloroethene	7.492	61	15608	0.516	ppbV		98
33) 1,1-dichloroethane	7.708	63	19530	0.510	ppbV		99
34) MTBE	7.792	73	29069	0.521	ppbV	#	90
35) vinyl acetate	7.900	43	26662	0.511	ppbV		98
36) 2-butanone	8.167	43	27320	0.521	ppbV		97
37) cis-1,2-dichloroethene	8.658	61	14291	0.501	ppbV		95
38) Ethyl Acetate	8.942	61	3601	0.496	ppbV	#	47
39) chloroform	8.992	83	20581	0.513	ppbV		98
40) Tetrahydrofuran	9.450	42	14770	0.490	ppbV		97
41) 2,2-dichloropropane	9.017	77	16169	0.530	ppbV		99
42) 1,2-dichloroethane	9.825	62	12336	0.553	ppbV		98
44) hexane	8.908	57	19368	0.529	ppbV	#	53
45) diisopropyl ether	8.917	87	10223	0.547	ppbV		96
46) tert-butyl ethyl ether	9.533	59	33329	0.531	ppbV		97
48) 1,1,1-trichloroethane	10.117	97	15900	0.494	ppbV		92
49) 1,1-dichloropropene	10.483	75	17840	0.522	ppbV		100
50) benzene	10.643	78	42751	0.505	ppbV		100
51) thiophene	10.790	84	32100	0.586	ppbV		99
52) carbon tetrachloride	10.817	117	15046	0.477	ppbV		98
53) cyclohexane	10.963	56	20374	0.520	ppbV		97
54) tert-amyl methyl ether	11.357	73	34000	0.533	ppbV		97
55) dibromomethane	11.563	93	11690	0.544	ppbV		96
56) 1,2-dichloropropane	11.597	63	12898	0.493	ppbV		99
57) bromodichloromethane	11.823	83	18781	0.469	ppbV		99
58) 1,4-dioxane	11.877	88	7860	0.483	ppbV		93
59) trichloroethene	11.877	130	16091	0.500	ppbV		97
60) 2,2,4-trimethylpentane	11.930	57	68769	0.587	ppbV		98
61) methyl methacrylate	12.130	41	13698	0.482	ppbV		100
62) heptane	12.250	43	27021	0.509	ppbV		97
63) cis-1,3-dichloropropene	12.892	75	20382	0.471	ppbV		96
64) 4-methyl-2-pentanone	12.942	43	32512	0.507	ppbV		98
65) trans-1,3-dichloropropene	13.517	75	15654	0.456	ppbV		96
66) 1,1,2-trichloroethane	13.717	97	14844	0.509	ppbV		96

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	43849	0.508	ppbV	98
70) 2-methylthiophene	14.117	97	43927	0.581	ppbV	97
71) 1,3-dichloropropane	14.075	76	21943	0.527	ppbV	99
72) 2-hexanone	14.358	43	25475	0.428	ppbV	99
73) 3-methylthiophene	14.317	97	42936	0.581	ppbV	97
74) dibromochloromethane	14.500	129	16491	0.434	ppbV	98
75) 1,2-dibromoethane	14.758	107	22048	0.490	ppbV	98
76) butyl acetate	15.025	73	4553	0.453	ppbV	95
77) octane	15.108	85	16045	0.545	ppbV	94
78) tetrachloroethene	15.225	166	17510	0.508	ppbV	98
79) 1,1,1,2-tetrachloroethane	15.858	131	14621	0.500	ppbV	97
80) chlorobenzene	15.875	112	37742	0.506	ppbV	98
81) ethylbenzene	16.233	91	54452	0.490	ppbV	99
82) 2-ethylthiophene	16.267	97	46473	0.546	ppbV	98
83) m+p-xylene	16.400	91	85560	0.973	ppbV	98
84) bromoform	16.458	173	11617	0.386	ppbV	100
85) styrene	16.725	104	35734	0.467	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.817	83	32839	0.498	ppbV	100
87) o-xylene	16.817	91	43514	0.496	ppbV	100
88) 1,2,3-trichloropropane	16.933	75	26705	0.541	ppbV	96
89) nonane	17.025	43	43785	0.545	ppbV	98
91) isopropylbenzene	17.342	105	60016	0.543	ppbV	100
92) bromobenzene	17.408	77	34305	0.539	ppbV	94
93) 2-chlorotoluene	17.742	126	16585	0.515	ppbV	94
94) n-propylbenzene	17.775	120	18222	0.524	ppbV	92
95) 4-chlorotoluene	17.800	126	15857	0.508	ppbV	87
96) 4-ethyl toluene	17.900	105	60577	0.509	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	51825	0.501	ppbV	99
98) tert-butylbenzene	18.308	119	52796	0.536	ppbV	99
99) 1,2,4-trimethylbenzene	18.308	105	53290	0.510	ppbV	96
100) decane	18.400	57	39425	0.531	ppbV	99
101) Benzyl Chloride	18.425	91	22862	0.386	ppbV	99
102) 1,3-dichlorobenzene	18.442	146	29511	0.466	ppbV	97
103) 1,4-dichlorobenzene	18.492	146	28597	0.455	ppbV	95
104) sec-butylbenzene	18.533	105	76867	0.555	ppbV	99
105) 1,2,3-trimethylbenzene	18.667	105	48860	0.519	ppbV	99
106) p-isopropyltoluene	18.667	119	65121	0.549	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	28864	0.485	ppbV	99
108) n-butylbenzene	19.042	91	53933	0.535	ppbV	100
109) indan	18.842	117	50597	0.522	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

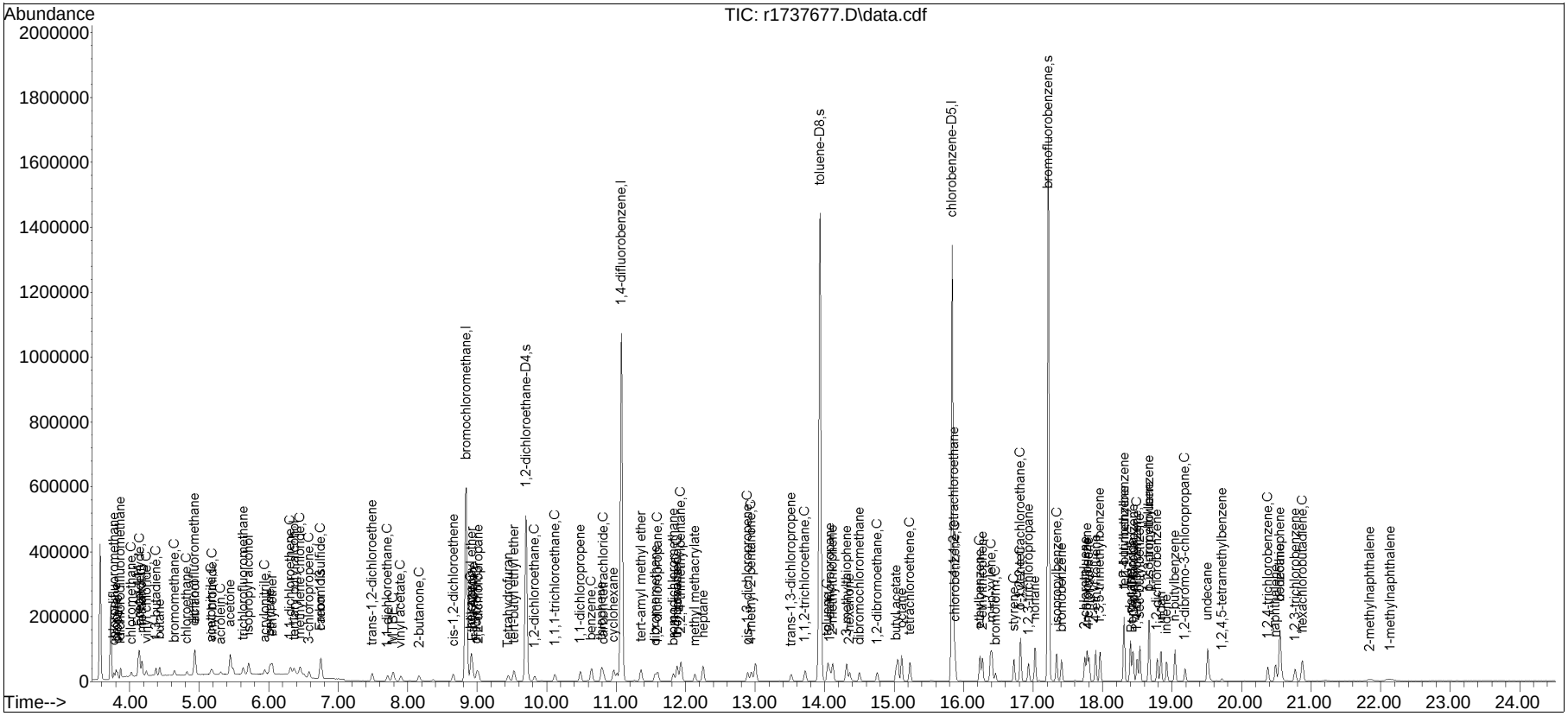
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	18.917	115	32183	0.501	ppbV		96
111) 1,2-dibromo-3-chloropr...	19.183	75	10968	0.460	ppbV	#	89
112) undecane	19.508	57	41417	0.521	ppbV		97
113) 1,2,4,5-tetramethylben...	19.717	119	5035	0.499	ppbV	#	98
114) dodecane	20.550	57	39050	0.494	ppbV		100
115) 1,2,4-trichlorobenzene	20.375	180	16687	0.394	ppbV		97
116) naphthalene	20.483	128	49819	0.490	ppbV		98
117) 1,2,3-trichlorobenzene	20.767	180	15983	0.499	ppbV		97
118) benzothiophene	20.550	134	89365	0.427	ppbV		99
119) hexachlorobutadiene	20.875	225	18656	0.474	ppbV		97
120) 2-methylnaphthalene	21.842	142	11330	0.355	ppbV		99
121) 1-methylnaphthalene	22.142	142	17382	0.377	ppbV		93

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737677.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:29 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

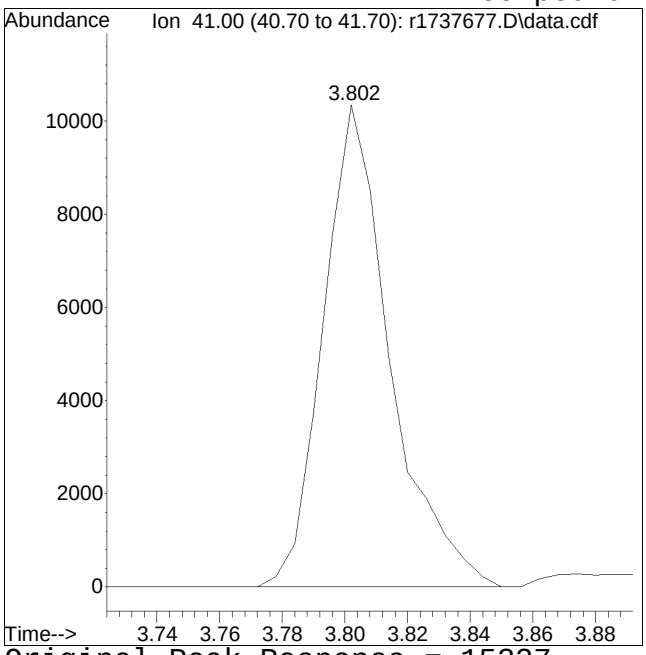


Manual Integration Report

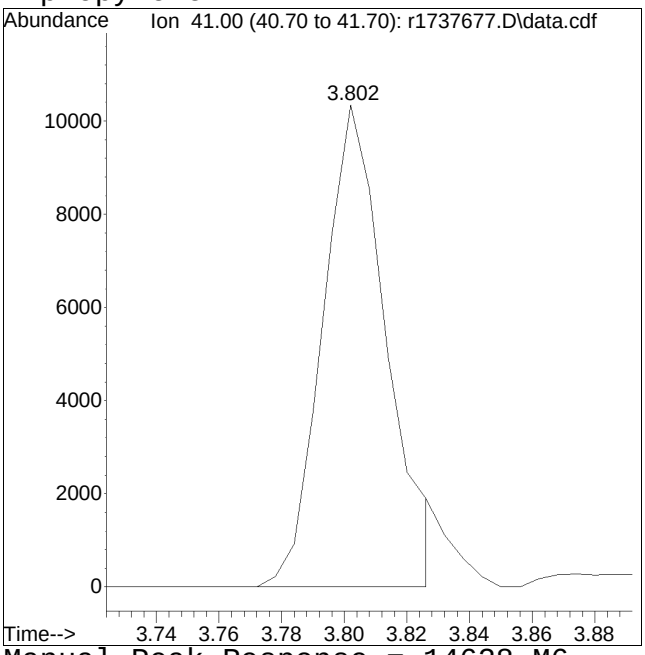
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737677.D
Date Inj'd : 1/7/2020 0:0: 4
Sample : ITO15-SIMSTD0.5

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 15327



Manual Peak Response = 14628 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	410085	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 96.26%			
43) 1,4-difluorobenzene	11.077	114	1097920	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 97.66%			
67) chlorobenzene-D5	15.842	54	147437	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 95.26%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.708	65	342180	10.253	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.53%			
69) toluene-D8	13.933	98	1137332	10.430	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.30%			
90) bromofluorobenzene	17.217	95	699727	10.379	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.79%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.772	51	36546	1.079	ppbV	100
3) propylene	3.802	41	23174M6	1.336	ppbV	
4) propane	3.826	29	28201	1.156	ppbV	100
5) dichlorodifluoromethane	3.868	85	40817	1.032	ppbV	98
6) chloromethane	4.024	50	21714	1.033	ppbV	100
7) Freon-114	4.126	85	50488	1.042	ppbV	98
8) methanol	4.174	31	58817	5.830	ppbV #	86
9) vinyl chloride	4.240	62	21734	1.003	ppbV	97
10) 1,3-butadiene	4.378	54	19329	1.044	ppbV	95
11) butane	4.432	43	33367	1.100	ppbV	96
12) acetaldehyde	4.138	29	77585	5.498	ppbV	95
13) bromomethane	4.642	94	18101	1.013	ppbV	97
14) chloroethane	4.822	64	10132	1.027	ppbV	100
15) ethanol	4.936	31	113815	6.321	ppbV	97
16) dichlorofluoromethane	4.930	67	37643	1.098	ppbV	99
17) vinyl bromide	5.190	106	17197	1.013	ppbV	92
18) acrolein	5.307	56	9952	1.042	ppbV #	85
19) acetone	5.443	43	140188	5.932	ppbV #	99
20) acetonitrile	5.167	41	17977	1.086	ppbV	97
21) trichlorofluoromethane	5.637	101	31867	1.021	ppbV	98
22) isopropyl alcohol	5.710	45	82754	2.526	ppbV	99
23) acrylonitrile	5.947	53	19070	1.056	ppbV	98
24) pentane	6.020	43	39744	1.116	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.050	31	38993	1.093	ppbV		95
26) 1,1-dichloroethene	6.318	61	28165	1.010	ppbV		98
27) tertiary butyl alcohol	6.360	59	39587	1.071	ppbV	#	95
28) methylene chloride	6.456	49	27598	1.058	ppbV		95
29) 3-chloropropene	6.582	41	30546	0.997	ppbV		99
30) carbon disulfide	6.750	76	69744	0.980	ppbV	#	80
31) Freon 113	6.750	101	41097	1.013	ppbV		100
32) trans-1,2-dichloroethene	7.492	61	29707	1.013	ppbV		97
33) 1,1-dichloroethane	7.717	63	37335	1.005	ppbV		100
34) MTBE	7.783	73	55233	1.020	ppbV	#	94
35) vinyl acetate	7.900	43	52737	1.041	ppbV		99
36) 2-butanone	8.158	43	53106	1.044	ppbV		99
37) cis-1,2-dichloroethene	8.658	61	27913	1.008	ppbV		97
38) Ethyl Acetate	8.933	61	7139	1.013	ppbV		98
39) chloroform	8.992	83	39526	1.015	ppbV		99
40) Tetrahydrofuran	9.442	42	29242	1.000	ppbV		99
41) 2,2-dichloropropane	9.017	77	31007	1.048	ppbV		99
42) 1,2-dichloroethane	9.825	62	22480	1.038	ppbV		98
44) hexane	8.917	57	36851	1.031	ppbV		83
45) diisopropyl ether	8.917	87	19042	1.045	ppbV		96
46) tert-butyl ethyl ether	9.533	59	65463	1.069	ppbV		97
48) 1,1,1-trichloroethane	10.117	97	31069	0.989	ppbV		100
49) 1,1-dichloropropene	10.490	75	35335	1.060	ppbV		97
50) benzene	10.643	78	83356	1.010	ppbV		100
51) thiophene	10.790	84	60542	1.134	ppbV		98
52) carbon tetrachloride	10.823	117	28419	0.924	ppbV		98
53) cyclohexane	10.963	56	38978	1.019	ppbV		97
54) tert-amyl methyl ether	11.357	73	64845	1.042	ppbV		99
55) dibromomethane	11.563	93	21795	1.040	ppbV		98
56) 1,2-dichloropropane	11.603	63	25301	0.991	ppbV		97
57) bromodichloromethane	11.830	83	36721	0.940	ppbV		100
58) 1,4-dioxane	11.877	88	15261	0.962	ppbV		94
59) trichloroethene	11.883	130	31033	0.988	ppbV		97
60) 2,2,4-trimethylpentane	11.937	57	132406	1.158	ppbV		100
61) methyl methacrylate	12.137	41	26640	0.960	ppbV		99
62) heptane	12.257	43	52311	1.009	ppbV		99
63) cis-1,3-dichloropropene	12.900	75	39943	0.946	ppbV		98
64) 4-methyl-2-pentanone	12.942	43	60772	0.972	ppbV		98
65) trans-1,3-dichloropropene	13.525	75	29906	0.893	ppbV		98
66) 1,1,2-trichloroethane	13.725	97	28189	0.992	ppbV		96

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.050	91	84111	1.019	ppbV	99
70) 2-methylthiophene	14.117	97	85002	1.177	ppbV	99
71) 1,3-dichloropropane	14.083	76	42484	1.069	ppbV	97
72) 2-hexanone	14.350	43	50740	0.893	ppbV	100
73) 3-methylthiophene	14.317	97	83188	1.178	ppbV	99
74) dibromochloromethane	14.508	129	33152	0.913	ppbV	96
75) 1,2-dibromoethane	14.758	107	42758	0.994	ppbV	100
76) butyl acetate	15.025	73	9117	0.949	ppbV	95
77) octane	15.108	85	30524	1.086	ppbV	98
78) tetrachloroethene	15.233	166	32816	0.997	ppbV	96
79) 1,1,1,2-tetrachloroethane	15.867	131	28644	1.025	ppbV	98
80) chlorobenzene	15.875	112	71772	1.008	ppbV	99
81) ethylbenzene	16.233	91	104532	0.985	ppbV	98
82) 2-ethylthiophene	16.275	97	92565	1.138	ppbV	99
83) m+p-xylene	16.392	91	168484	2.006	ppbV	98
84) bromoform	16.458	173	23672	0.823	ppbV	95
85) styrene	16.725	104	68998	0.945	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.817	83	63095	1.001	ppbV	99
87) o-xylene	16.817	91	84959	1.014	ppbV	99
88) 1,2,3-trichloropropane	16.933	75	51079	1.083	ppbV	99
89) nonane	17.025	43	83943	1.094	ppbV	99
91) isopropylbenzene	17.342	105	116428	1.102	ppbV	97
92) bromobenzene	17.408	77	66369	1.091	ppbV	95
93) 2-chlorotoluene	17.742	126	33181	1.078	ppbV	93
94) n-propylbenzene	17.775	120	35848	1.080	ppbV	99
95) 4-chlorotoluene	17.808	126	30252	1.014	ppbV	97
96) 4-ethyl toluene	17.900	105	118490	1.041	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	102624	1.038	ppbV	97
98) tert-butylbenzene	18.308	119	102710	1.091	ppbV	99
99) 1,2,4-trimethylbenzene	18.308	105	101826	1.020	ppbV	96
100) decane	18.400	57	76452	1.079	ppbV	94
101) Benzyl Chloride	18.425	91	46747	0.827	ppbV	98
102) 1,3-dichlorobenzene	18.442	146	58786	0.972	ppbV	99
103) 1,4-dichlorobenzene	18.492	146	56550	0.942	ppbV	97
104) sec-butylbenzene	18.533	105	149158	1.126	ppbV	99
105) 1,2,3-trimethylbenzene	18.667	105	95581	1.062	ppbV	99
106) p-isopropyltoluene	18.667	119	124881	1.102	ppbV	100
107) 1,2-dichlorobenzene	18.783	146	56354	0.991	ppbV	99
108) n-butylbenzene	19.042	91	105473	1.095	ppbV	99
109) indan	18.842	117	98290	1.062	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

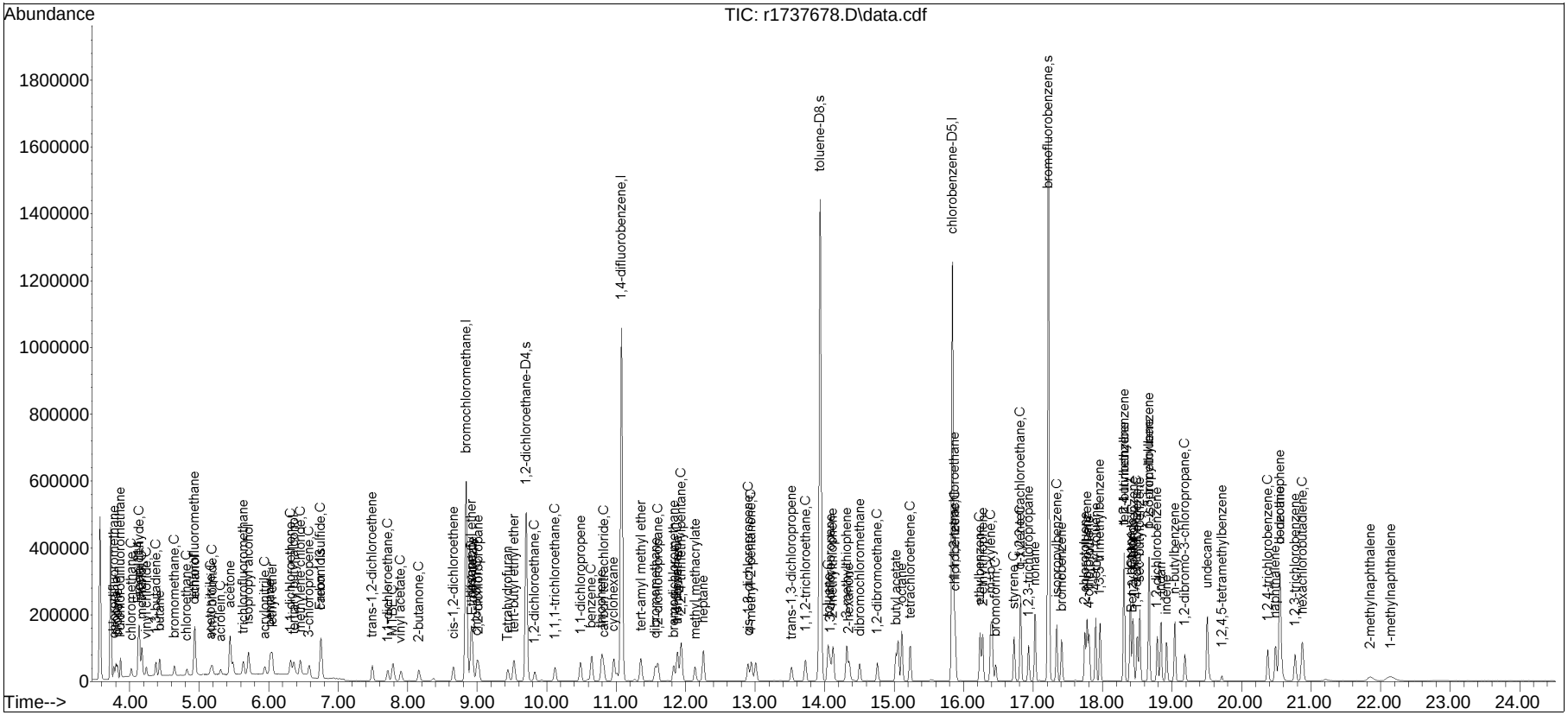
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.917	115	63256	1.030	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.183	75	22670	0.996	ppbV	91
112) undecane	19.508	57	81739	1.076	ppbV	98
113) 1,2,4,5-tetramethylben...	19.717	119	9682	1.005	ppbV	99
114) dodecane	20.550	57	77096	1.020	ppbV	98
115) 1,2,4-trichlorobenzene	20.375	180	34374	0.850	ppbV	98
116) naphthalene	20.483	128	105627	1.087	ppbV	98
117) 1,2,3-trichlorobenzene	20.767	180	32086	1.048	ppbV	98
118) benzothiophene	20.550	134	199083	0.995	ppbV	99
119) hexachlorobutadiene	20.875	225	36574	0.972	ppbV	98
120) 2-methylnaphthalene	21.850	142	27086	0.889	ppbV	96
121) 1-methylnaphthalene	22.150	142	38516	0.875	ppbV	96

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737678.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:41 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

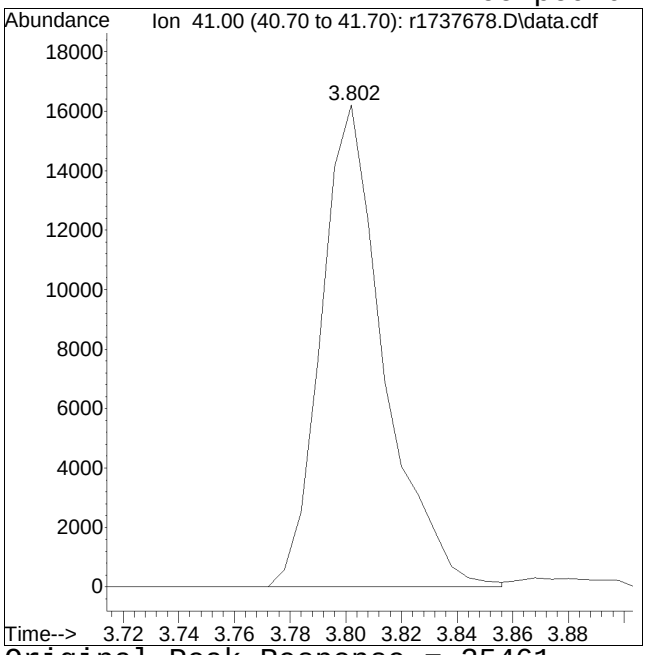


Manual Integration Report

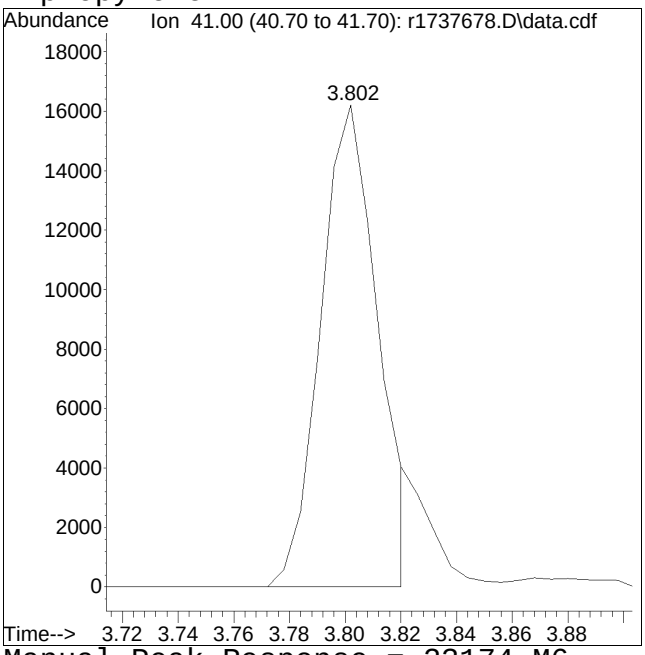
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737678.D
Date Inj'd : 1/7/2020 0:1: 6
Sample : ITO15-SIMSTD1.0

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 25461



Manual Peak Response = 23174 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	429879	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 100.91%			
43) 1,4-difluorobenzene	11.070	114	1136844	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 101.12%			
67) chlorobenzene-D5	15.833	54	155961	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 100.76%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	351085	10.160	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%			
69) toluene-D8	13.933	98	1165834	10.107	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.07%			
90) bromofluorobenzene	17.217	95	720227	10.099	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.99%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.772	51	172346	4.855	ppbV	100
3) propylene	3.802	41	92993M6	5.113	ppbV	
4) propane	3.820	29	131144	5.128	ppbV	98
5) dichlorodifluoromethane	3.868	85	213233	5.144	ppbV	99
6) chloromethane	4.024	50	110830	5.028	ppbV	99
7) Freon-114	4.126	85	261651	5.150	ppbV	97
8) methanol	4.174	31	264847	25.044	ppbV	97
9) vinyl chloride	4.240	62	113963	5.019	ppbV	99
10) 1,3-butadiene	4.372	54	97120	5.005	ppbV	98
11) butane	4.432	43	159470	5.017	ppbV	100
12) acetaldehyde	4.138	29	388153	26.240	ppbV	99
13) bromomethane	4.642	94	93564	4.997	ppbV	99
14) chloroethane	4.822	64	51729	5.004	ppbV	99
15) ethanol	4.936	31	445755	23.616	ppbV	100
16) dichlorofluoromethane	4.924	67	179537	4.996	ppbV	100
17) vinyl bromide	5.187	106	89673	5.039	ppbV	98
18) acrolein	5.303	56	50497	5.044	ppbV	96
19) acetone	5.437	43	623611	25.172	ppbV	100
20) acetonitrile	5.163	41	85192	4.910	ppbV	97
21) trichlorofluoromethane	5.633	101	164042	5.011	ppbV	99
22) isopropyl alcohol	5.703	45	426477	12.419	ppbV	100
23) acrylonitrile	5.940	53	92200	4.872	ppbV	98
24) pentane	6.020	43	187796	5.028	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.043	31	188287	5.036	ppbV	100
26) 1,1-dichloroethene	6.312	61	147439	5.044	ppbV	99
27) tertiary butyl alcohol	6.348	59	193332	4.990	ppbV	99
28) methylene chloride	6.450	49	137972	5.048	ppbV	96
29) 3-chloropropene	6.582	41	158363	4.930	ppbV	99
30) carbon disulfide	6.744	76	366889	4.916	ppbV	98
31) Freon 113	6.750	101	216454	5.088	ppbV	99
32) trans-1,2-dichloroethene	7.492	61	152522	4.961	ppbV	99
33) 1,1-dichloroethane	7.708	63	194552	4.998	ppbV	99
34) MTBE	7.775	73	285050	5.019	ppbV	99
35) vinyl acetate	7.900	43	259605	4.887	ppbV	100
36) 2-butanone	8.150	43	263831	4.945	ppbV	100
37) cis-1,2-dichloroethene	8.658	61	145030	4.997	ppbV	99
38) Ethyl Acetate	8.925	61	36992	5.010	ppbV	94
39) chloroform	8.992	83	206476	5.057	ppbV	100
40) Tetrahydrofuran	9.425	42	151080	4.931	ppbV	99
41) 2,2-dichloropropane	9.017	77	154651	4.987	ppbV	100
42) 1,2-dichloroethane	9.825	62	113350	4.994	ppbV	99
44) hexane	8.908	57	185677	5.019	ppbV	93
45) diisopropyl ether	8.908	87	93836	4.971	ppbV	98
46) tert-butyl ethyl ether	9.517	59	317288	5.003	ppbV	99
48) 1,1,1-trichloroethane	10.117	97	161296	4.958	ppbV	99
49) 1,1-dichloropropene	10.483	75	171525	4.971	ppbV	100
50) benzene	10.643	78	426570	4.994	ppbV	100
51) thiophene	10.790	84	276329	4.998	ppbV	100
52) carbon tetrachloride	10.817	117	154811	4.862	ppbV	99
53) cyclohexane	10.963	56	198120	5.004	ppbV	98
54) tert-amyl methyl ether	11.343	73	320546	4.975	ppbV	100
55) dibromomethane	11.557	93	108198	4.986	ppbV	99
56) 1,2-dichloropropane	11.597	63	131929	4.989	ppbV	100
57) bromodichloromethane	11.823	83	197793	4.888	ppbV	97
58) 1,4-dioxane	11.857	88	81042	4.934	ppbV	97
59) trichloroethene	11.877	130	162925	5.011	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	592083	5.001	ppbV	100
61) methyl methacrylate	12.123	41	140358	4.887	ppbV	99
62) heptane	12.250	43	269214	5.016	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	215508	4.932	ppbV	99
64) 4-methyl-2-pentanone	12.933	43	320882	4.955	ppbV	100
65) trans-1,3-dichloropropene	13.517	75	169470	4.889	ppbV	99
66) 1,1,2-trichloroethane	13.717	97	147254	5.003	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	434291	4.974	ppbV	98
70) 2-methylthiophene	14.117	97	380314	4.980	ppbV	100
71) 1,3-dichloropropane	14.075	76	211116	5.021	ppbV	98
72) 2-hexanone	14.333	43	295279	4.912	ppbV	99
73) 3-methylthiophene	14.317	97	375037	5.021	ppbV	99
74) dibromochloromethane	14.500	129	183234	4.773	ppbV	99
75) 1,2-dibromoethane	14.750	107	228918	5.031	ppbV	100
76) butyl acetate	15.008	73	49329	4.855	ppbV	97
77) octane	15.108	85	148889	5.006	ppbV	95
78) tetrachloroethene	15.225	166	173250	4.974	ppbV	96
79) 1,1,1,2-tetrachloroethane	15.858	131	145609	4.927	ppbV	97
80) chlorobenzene	15.875	112	378394	5.022	ppbV	99
81) ethylbenzene	16.233	91	556952	4.962	ppbV	99
82) 2-ethylthiophene	16.267	97	425217	4.944	ppbV	99
83) m+p-xylene	16.392	91	879993	9.906	ppbV	99
84) bromoform	16.458	173	142444	4.683	ppbV	98
85) styrene	16.725	104	377925	4.892	ppbV	98
86) 1,1,2,2-tetrachloroethane	16.808	83	332614	4.989	ppbV	100
87) o-xylene	16.817	91	442786	4.996	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	249093	4.995	ppbV	99
89) nonane	17.025	43	408876	5.040	ppbV	100
91) isopropylbenzene	17.333	105	568501	5.086	ppbV	98
92) bromobenzene	17.408	77	322431	5.012	ppbV	100
93) 2-chlorotoluene	17.742	126	161153	4.949	ppbV	87
94) n-propylbenzene	17.767	120	174472	4.967	ppbV	99
95) 4-chlorotoluene	17.800	126	155560	4.931	ppbV	98
96) 4-ethyl toluene	17.892	105	607577	5.047	ppbV	99
97) 1,3,5-trimethylbenzene	17.958	105	533983	5.108	ppbV	97
98) tert-butylbenzene	18.300	119	498220	5.004	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	529695	5.017	ppbV	98
100) decane	18.392	57	374290	4.992	ppbV	97
101) Benzyl Chloride	18.425	91	272876	4.563	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	311885	4.877	ppbV	99
103) 1,4-dichlorobenzene	18.492	146	307237	4.839	ppbV	99
104) sec-butylbenzene	18.525	105	707560	5.051	ppbV	100
105) 1,2,3-trimethylbenzene	18.658	105	482072	5.064	ppbV	99
106) p-isopropyltoluene	18.658	119	596995	4.979	ppbV	99
107) 1,2-dichlorobenzene	18.783	146	290763	4.833	ppbV	97
108) n-butylbenzene	19.025	91	508785	4.994	ppbV	98
109) indan	18.833	117	493505	5.042	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

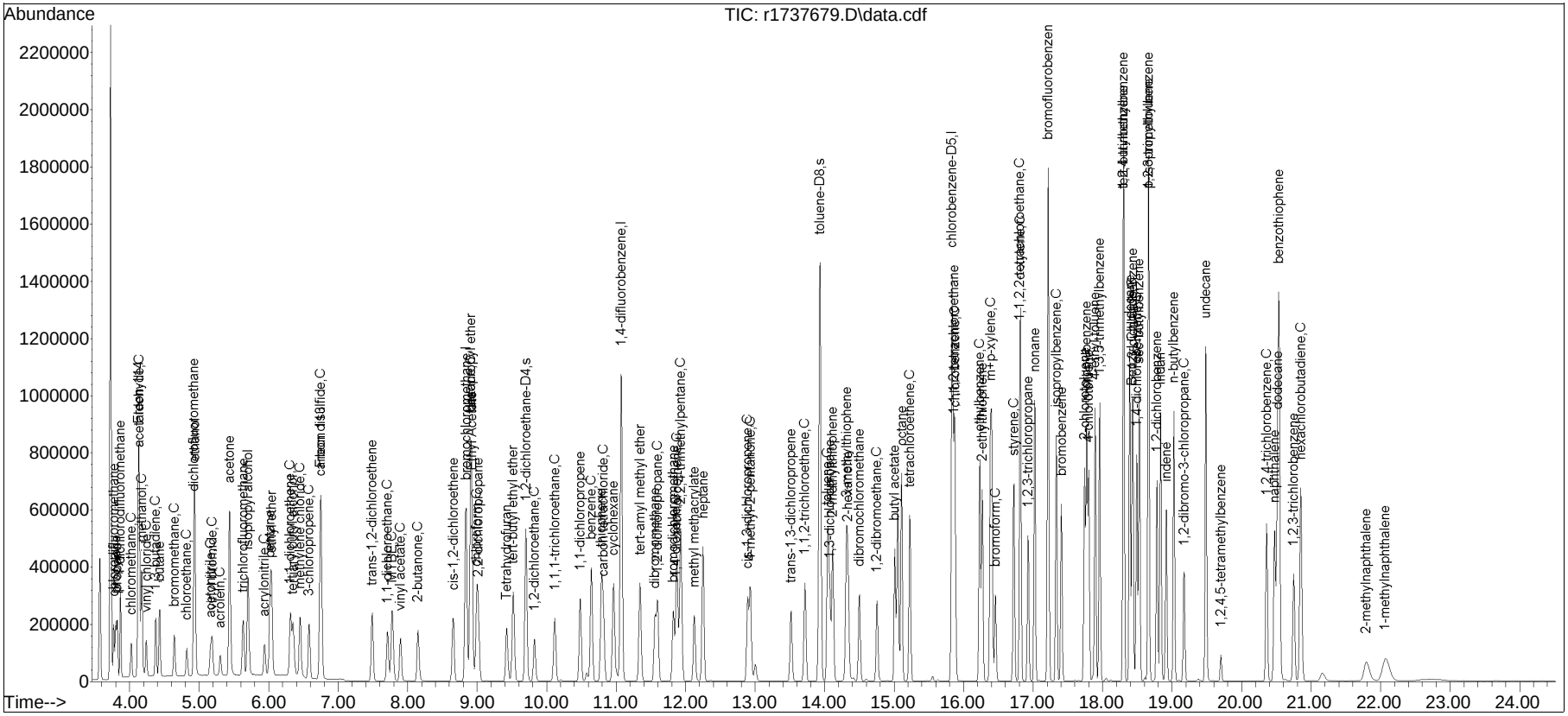
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.917	115	319244	4.914	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.175	75	114164	4.740	ppbV	96
112) undecane	19.483	57	400266	4.982	ppbV	100
113) 1,2,4,5-tetramethylben...	19.700	119	49465	4.853	ppbV	98
114) dodecane	20.517	57	382749	4.787	ppbV	99
115) 1,2,4-trichlorobenzene	20.358	180	193326	4.520	ppbV	98
116) naphthalene	20.475	128	474724	4.618	ppbV	99
117) 1,2,3-trichlorobenzene	20.750	180	144198	4.451	ppbV	99
118) benzothiophene	20.533	134	907123	4.284	ppbV	98
119) hexachlorobutadiene	20.850	225	192274	4.832	ppbV	99
120) 2-methylnaphthalene	21.792	142	121981	3.786	ppbV	98
121) 1-methylnaphthalene	22.067	142	186452	4.005	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737679.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:48:53 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

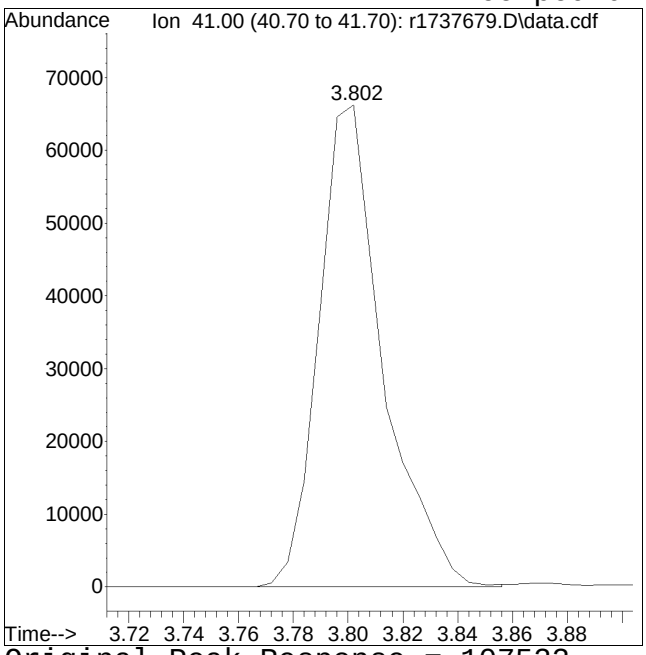


Manual Integration Report

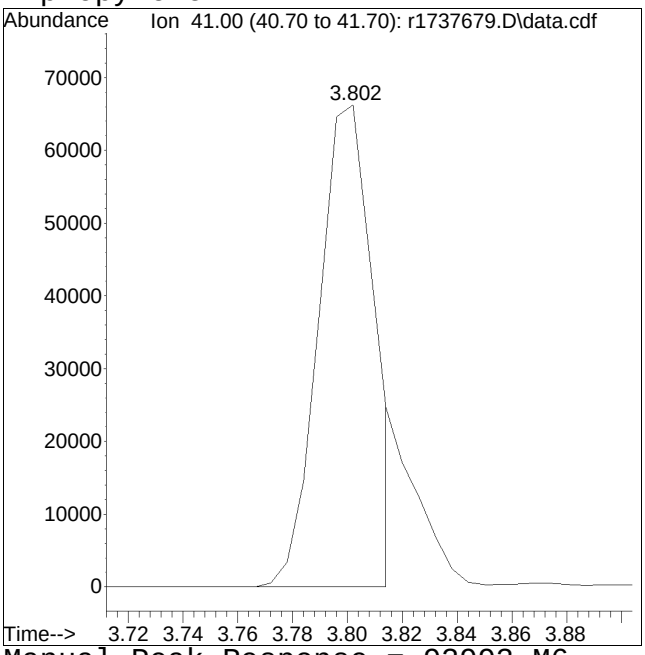
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737679.D
Date Inj'd : 1/8/2020 0:2: 5
Sample : ITO15-SIMSTD5.0

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:48 pm

Compound #3: propylene



Original Peak Response = 107522



Manual Peak Response = 92993 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	426000	10.000	ppbV	0.02
Standard Area = 426000			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.070	114	1124227	10.000	ppbV	0.01
Standard Area = 1124227			Recovery = 100.00%			
67) chlorobenzene-D5	15.833	54	154777	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	341719	8.795	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.95%			
69) toluene-D8	13.925	98	1144713	8.781	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.81%			
90) bromofluorobenzene	17.217	95	707767	8.514	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 85.14%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.766	51	351791	8.915	ppbV	99
3) propylene	3.796	41	180244M6	8.586	ppbV	
4) propane	3.820	29	253415	8.581	ppbV	98
5) dichlorodifluoromethane	3.862	85	410820	9.593	ppbV	99
6) chloromethane	4.018	50	218422	9.307	ppbV	99
7) Freon-114	4.120	85	503523	9.316	ppbV	99
8) methanol	4.168	31	523989	43.631	ppbV	96
9) vinyl chloride	4.234	62	224992	9.130	ppbV	100
10) 1,3-butadiene	4.372	54	192288	8.984	ppbV	95
11) butane	4.426	43	314974	8.959	ppbV	99
12) acetaldehyde	4.132	29	732941	51.053	ppbV	93
13) bromomethane	4.642	94	185533	8.968	ppbV	98
14) chloroethane	4.822	64	102452	9.049	ppbV	99
15) ethanol	4.930	31	935243	47.806	ppbV	97
16) dichlorofluoromethane	4.924	67	356144	8.799	ppbV	100
17) vinyl bromide	5.183	106	176356	9.010	ppbV	99
18) acrolein	5.303	56	99215	8.302	ppbV	96
19) acetone	5.433	43	1227539	49.417	ppbV	94
20) acetonitrile	5.157	41	171953	8.657	ppbV	100
21) trichlorofluoromethane	5.630	101	324386	9.899	ppbV	99
22) isopropyl alcohol	5.700	45	850771	23.058	ppbV	99
23) acrylonitrile	5.940	53	187552	8.664	ppbV	99
24) pentane	6.020	43	370109	8.785	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.040	31	370508	8.868	ppbV	99
26) 1,1-dichloroethene	6.312	61	289677	9.330	ppbV	97
27) tertiary butyl alcohol	6.348	59	383949	9.267	ppbV	99
28) methylene chloride	6.450	49	270880	8.250	ppbV	90
29) 3-chloropropene	6.582	41	318308	9.240	ppbV	99
30) carbon disulfide	6.744	76	739507	10.331	ppbV	99
31) Freon 113	6.750	101	421596	9.320	ppbV	100
32) trans-1,2-dichloroethene	7.492	61	304681	8.880	ppbV	100
33) 1,1-dichloroethane	7.708	63	385736	9.037	ppbV	100
34) MTBE	7.775	73	562763	9.352	ppbV	99
35) vinyl acetate	7.892	43	526421	9.617	ppbV	100
36) 2-butanone	8.150	43	528670	9.399	ppbV	99
37) cis-1,2-dichloroethene	8.650	61	287610	8.979	ppbV	99
38) Ethyl Acetate	8.925	61	73176	9.118	ppbV	97
39) chloroform	8.992	83	404595	9.033	ppbV	99
40) Tetrahydrofuran	9.417	42	303638	9.164	ppbV	99
41) 2,2-dichloropropane	9.017	77	307312	9.136	ppbV	97
42) 1,2-dichloroethane	9.825	62	224939	8.670	ppbV	98
44) hexane	8.908	57	365830	8.848	ppbV	94
45) diisopropyl ether	8.908	87	186671	8.582	ppbV	99
46) tert-butyl ethyl ether	9.517	59	627175	8.776	ppbV	98
48) 1,1,1-trichloroethane	10.117	97	321725	9.249	ppbV	99
49) 1,1-dichloropropene	10.483	75	341214	8.890	ppbV	98
50) benzene	10.643	78	844767	9.314	ppbV	99
51) thiophene	10.790		0	N.D.		
52) carbon tetrachloride	10.817	117	314896	9.900	ppbV	99
53) cyclohexane	10.963	56	391510	8.872	ppbV	97
54) tert-amyl methyl ether	11.343	73	637203	8.894	ppbV	98
55) dibromomethane	11.557	93	214575	8.670	ppbV	98
56) 1,2-dichloropropane	11.590	63	261508	8.986	ppbV	100
57) bromodichloromethane	11.823	83	400181	9.716	ppbV	99
58) 1,4-dioxane	11.857	88	162415	9.013	ppbV	99
59) trichloroethene	11.877	130	321505	8.858	ppbV	98
60) 2,2,4-trimethylpentane	11.930	57	1170770	8.950	ppbV	98
61) methyl methacrylate	12.123	41	284025	9.215	ppbV	98
62) heptane	12.250	43	530706	9.262	ppbV	99
63) cis-1,3-dichloropropene	12.892	75	432132	9.917	ppbV	99
64) 4-methyl-2-pentanone	12.925	43	640451	9.494	ppbV	99
65) trans-1,3-dichloropropene	13.517	75	342771	9.779	ppbV	98
66) 1,1,2-trichloroethane	13.717	97	291037	9.034	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	866431	9.288	ppbV	99
70) 2-methylthiophene	14.117		0	N.D.		
71) 1,3-dichloropropane	14.067	76	417308	8.919	ppbV	94
72) 2-hexanone	14.333	43	596544	9.616	ppbV	99
73) 3-methylthiophene	14.308		0	N.D.		
74) dibromochloromethane	14.500	129	381003	10.072	ppbV	95
75) 1,2-dibromoethane	14.750	107	451585	9.228	ppbV	100
76) butyl acetate	15.008	73	100825	9.339	ppbV	96
77) octane	15.100	85	295190	8.498	ppbV	97
78) tetrachloroethene	15.225	166	345662	9.015	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.858	131	293296	9.054	ppbV	99
80) chlorobenzene	15.875	112	747797	8.966	ppbV	98
81) ethylbenzene	16.233	91	1113924	9.338	ppbV	95
82) 2-ethylthiophene	16.267		0	N.D.		
83) m+p-xylene	16.400	91	1763206	18.574	ppbV	98
84) bromoform	16.458	173	301854	10.837	ppbV	99
85) styrene	16.717	104	766731	9.219	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.808	83	661664	8.977	ppbV	99
87) o-xylene	16.817	91	879554	9.246	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	494910	8.659	ppbV	98
89) nonane	17.025	43	805173	8.936	ppbV	96
91) isopropylbenzene	17.333	105	1109234	8.466	ppbV	99
92) bromobenzene	17.408	77	638440	8.525	ppbV	97
93) 2-chlorotoluene	17.733	126	323157	8.358	ppbV	90
94) n-propylbenzene	17.767	120	348579	8.086	ppbV	87
95) 4-chlorotoluene	17.800	126	313109	8.282	ppbV	97
96) 4-ethyl toluene	17.892	105	1194720	8.795	ppbV	98
97) 1,3,5-trimethylbenzene	17.958	105	1037532	8.824	ppbV	99
98) tert-butylbenzene	18.300	119	988035	8.484	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	1047825	9.062	ppbV	95
100) decane	18.383	57	744030	8.405	ppbV	97
101) Benzyl Chloride	18.417	91	593417	10.725	ppbV	98
102) 1,3-dichlorobenzene	18.433	146	634611	8.723	ppbV	98
103) 1,4-dichlorobenzene	18.492	146	630131	8.737	ppbV	98
104) sec-butylbenzene	18.525	105	1390216	8.391	ppbV	97
105) 1,2,3-trimethylbenzene	18.658	105	944642	8.982	ppbV	97
106) p-isopropyltoluene	18.658	119	1190028	8.470	ppbV	100
107) 1,2-dichlorobenzene	18.775	146	597043	8.593	ppbV	99
108) n-butylbenzene	19.025	91	1011028	8.387	ppbV	96
109) indan	18.833	117	971418	8.562	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

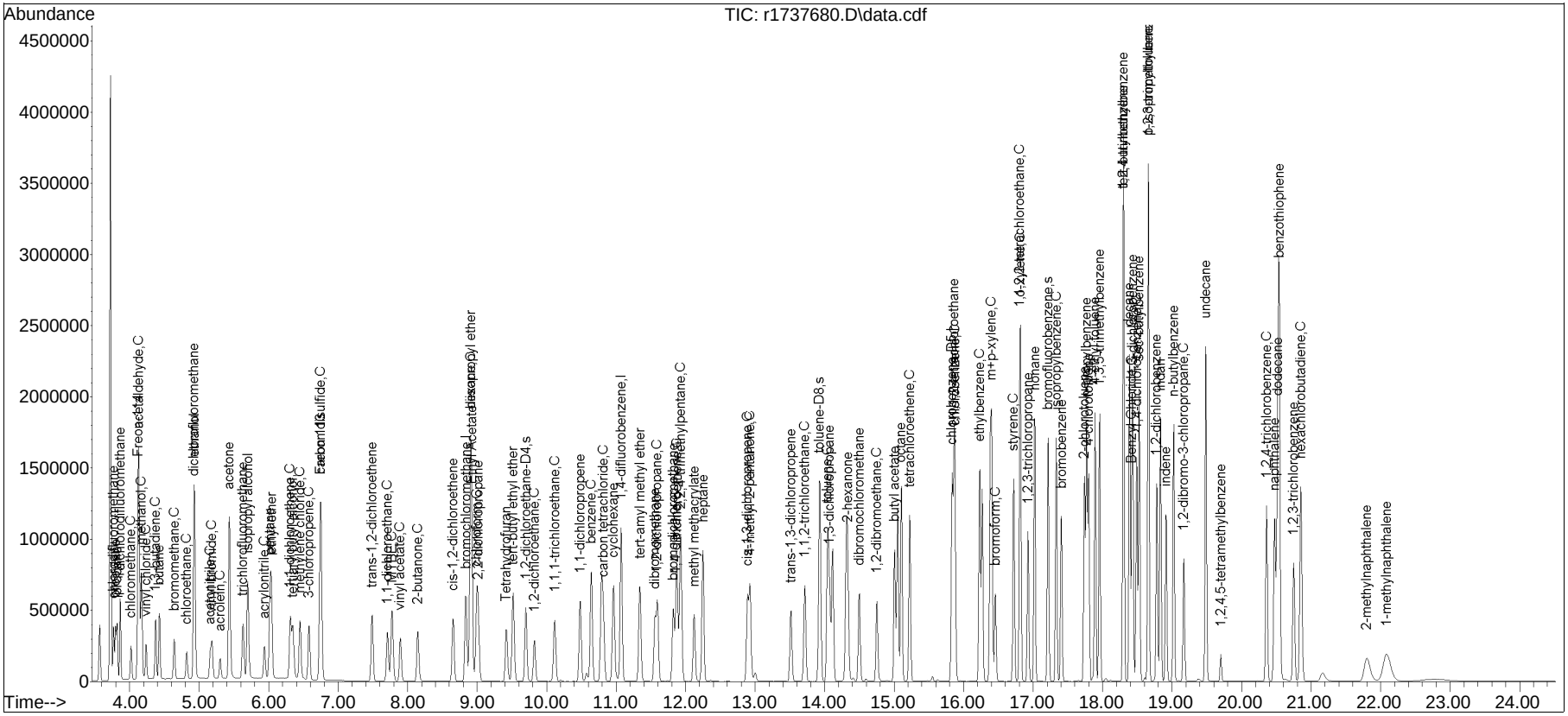
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	644762	8.459	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.167	75	239038	9.503	ppbV	98
112) undecane	19.483	57	797286	8.342	ppbV	96
113) 1,2,4,5-tetramethylben...	19.700	119	101158	5.148	ppbV	98
114) dodecane	20.517	57	793437	8.690	ppbV	92
115) 1,2,4-trichlorobenzene	20.358	180	424480	8.663	ppbV	97
116) naphthalene	20.475	128	1020202	7.303	ppbV	99
117) 1,2,3-trichlorobenzene	20.750	180	321495	7.409	ppbV	99
118) benzothiophene	20.542	134	2101377	9.348	ppbV	99
119) hexachlorobutadiene	20.850	225	394885	8.916	ppbV	96
120) 2-methylnaphthalene	21.800	142	319753	7.855	ppbV	100
121) 1-methylnaphthalene	22.083	142	462005	11.097	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737680.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:45:23 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:21:07 2023
Response via : Initial Calibration

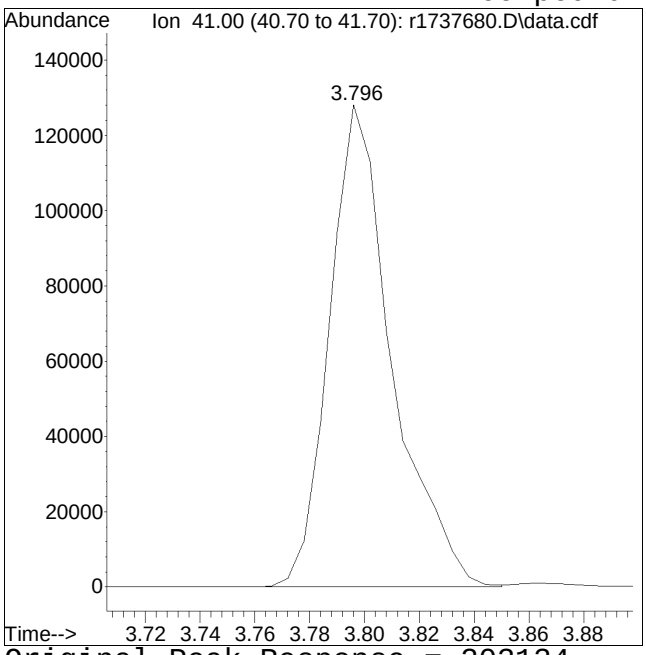


Manual Integration Report

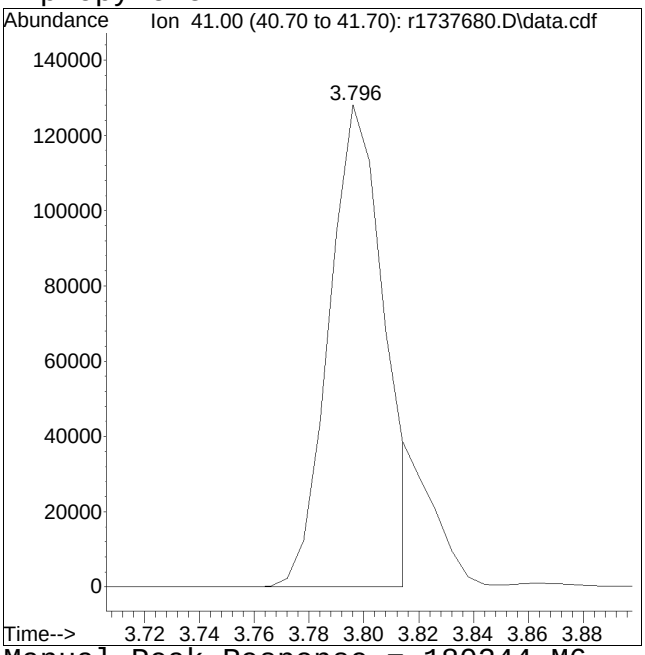
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737680.D
Date Inj'd : 1/8/2020 0:2: 6
Sample : ITO15-SIMSTD10.0

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:45 pm

Compound #3: propylene



Original Peak Response = 203134



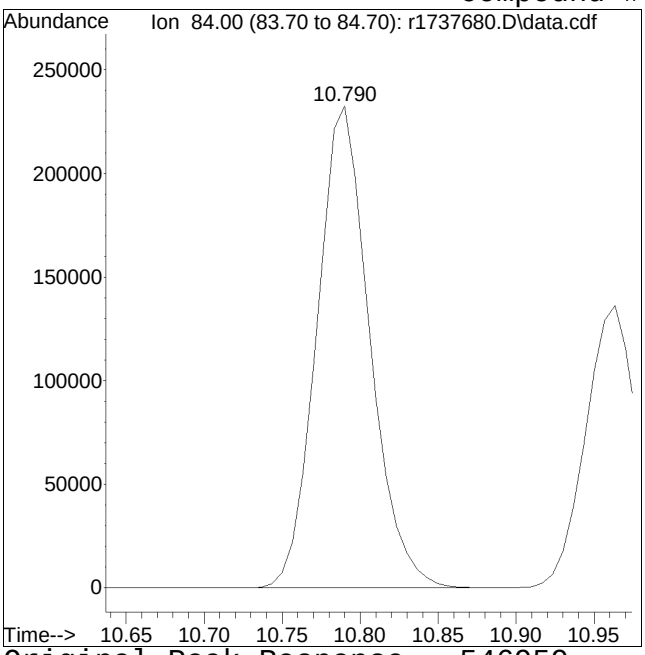
Manual Peak Response = 180244 M6

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

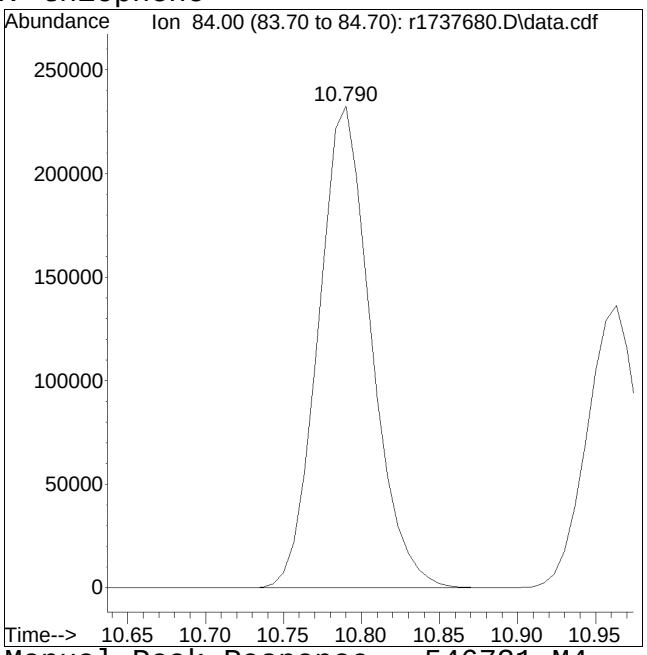
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1737680.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:2: 6 Instrument :
Sample : ITO15-SIMSTD10.0 Quant Date : 1/8/2024 2:45 pm

Compound #51: thiophene



Original Peak Response = 546959



Manual Peak Response = 546721 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	434811	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 102.07%			
43) 1,4-difluorobenzene	11.063	114	1138671	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 101.28%			
67) chlorobenzene-D5	15.825	54	155430	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 100.42%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.692	65	341034	9.853	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.53%			
69) toluene-D8	13.925	98	1153931	10.038	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.38%			
90) bromofluorobenzene	17.208	95	718949	10.115	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.15%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.766	51	735976	20.497	ppbV	99
3) propylene	3.796	41	363527M6	19.760	ppbV	
4) propane	3.820	29	540844	20.910	ppbV	99
5) dichlorodifluoromethane	3.862	85	806242	19.228	ppbV	99
6) chloromethane	4.018	50	429126	19.249	ppbV	100
7) Freon-114	4.120	85	985252	19.171	ppbV	99
8) methanol	4.168	31	1136948	106.291	ppbV	98
9) vinyl chloride	4.234	62	444397	19.351	ppbV	99
10) 1,3-butadiene	4.372	54	382004	19.464	ppbV	100
11) butane	4.426	43	656508	20.421	ppbV	99
12) acetaldehyde	4.132	29	1469518	98.217	ppbV	99
13) bromomethane	4.636	94	367715	19.418	ppbV	99
14) chloroethane	4.816	64	204657	19.571	ppbV	100
15) ethanol	4.930	31	1849620	96.881	ppbV	100
16) dichlorofluoromethane	4.924	67	752433	20.699	ppbV	100
17) vinyl bromide	5.180	106	357858	19.881	ppbV	97
18) acrolein	5.297	56	216188	21.348	ppbV	97
19) acetone	5.430	43	2516266	100.415	ppbV	99
20) acetonitrile	5.157	41	371624	21.174	ppbV	97
21) trichlorofluoromethane	5.627	101	649958	19.631	ppbV	100
22) isopropyl alcohol	5.697	45	1745507	50.253	ppbV	99
23) acrylonitrile	5.937	53	402902	21.047	ppbV	99
24) pentane	6.013	43	796733	21.091	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.033	31	814858	21.547	ppbV		99
26) 1,1-dichloroethene	6.306	61	592260	20.031	ppbV		100
27) tertiary butyl alcohol	6.342	59	817684	20.865	ppbV	#	92
28) methylene chloride	6.444	49	642789	23.249	ppbV		92
29) 3-chloropropene	6.576	41	645870	19.880	ppbV		99
30) carbon disulfide	6.738	76	1497991	19.846	ppbV		100
31) Freon 113	6.744	101	842103	19.569	ppbV		99
32) trans-1,2-dichloroethene	7.483	61	617356	19.852	ppbV		99
33) 1,1-dichloroethane	7.700	63	772266	19.615	ppbV		100
34) MTBE	7.767	73	1144458	19.924	ppbV		99
35) vinyl acetate	7.883	43	1100302	20.478	ppbV		99
36) 2-butanone	8.133	43	1070245	19.834	ppbV		99
37) cis-1,2-dichloroethene	8.650	61	577609	19.676	ppbV		99
38) Ethyl Acetate	8.917	61	149983	20.081	ppbV		97
39) chloroform	8.983	83	813451	19.698	ppbV		98
40) Tetrahydrofuran	9.408	42	616425	19.890	ppbV		99
41) 2,2-dichloropropane	9.008	77	654373	20.862	ppbV		99
42) 1,2-dichloroethane	9.817	62	447049	19.472	ppbV		100
44) hexane	8.900	57	748422	20.199	ppbV		98
45) diisopropyl ether	8.900	87	397771	21.038	ppbV		95
46) tert-butyl ethyl ether	9.508	59	1349015	21.237	ppbV		99
48) 1,1,1-trichloroethane	10.108	97	647270	19.864	ppbV		99
49) 1,1-dichloropropene	10.477	75	728766	21.087	ppbV		99
50) benzene	10.637	78	1679109	19.624	ppbV		100
51) thiophene	10.783	84	1272657	22.983	ppbV		99
52) carbon tetrachloride	10.810	117	639826	20.061	ppbV		100
53) cyclohexane	10.957	56	800764	20.194	ppbV		98
54) tert-amyl methyl ether	11.330	73	1366861	21.179	ppbV		99
55) dibromomethane	11.550	93	458994	21.120	ppbV		99
56) 1,2-dichloropropane	11.590	63	526916	19.894	ppbV		100
57) bromodichloromethane	11.817	83	822427	20.291	ppbV		98
58) 1,4-dioxane	11.850	88	334186	20.315	ppbV		99
59) trichloroethene	11.870	130	647672	19.889	ppbV		97
60) 2,2,4-trimethylpentane	11.923	57	2371690	20.001	ppbV		100
61) methyl methacrylate	12.117	41	587851	20.435	ppbV		100
62) heptane	12.243	43	1073656	19.974	ppbV		99
63) cis-1,3-dichloropropene	12.883	75	869187	19.859	ppbV		100
64) 4-methyl-2-pentanone	12.917	43	1301403	20.062	ppbV		100
65) trans-1,3-dichloropropene	13.508	75	696412	20.059	ppbV		99
66) 1,1,2-trichloroethane	13.708	97	579129	19.646	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.042	91	1723751	19.811	ppbV	98
70) 2-methylthiophene	14.108	97	1756043	23.074	ppbV	99
71) 1,3-dichloropropane	14.067	76	890325	21.245	ppbV	97
72) 2-hexanone	14.325	43	1230515	20.541	ppbV	98
73) 3-methylthiophene	14.308	97	1731400	23.258	ppbV	99
74) dibromochloromethane	14.492	129	796408	20.815	ppbV	98
75) 1,2-dibromoethane	14.750	107	902367	19.898	ppbV	100
76) butyl acetate	15.000	73	215597	21.293	ppbV	95
77) octane	15.100	85	634873	21.417	ppbV	99
78) tetrachloroethene	15.217	166	688580	19.837	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.850	131	631506	21.441	ppbV	99
80) chlorobenzene	15.867	112	1481317	19.726	ppbV	99
81) ethylbenzene	16.225	91	2195106	19.623	ppbV	99
82) 2-ethylthiophene	16.258	97	1957672	22.839	ppbV	99
83) m+p-xylene	16.392	91	3451177	38.982	ppbV	100
84) bromoform	16.450	173	642832	21.207	ppbV	98
85) styrene	16.717	104	1503987	19.533	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.808	83	1317796	19.833	ppbV	100
87) o-xylene	16.808	91	1729844	19.585	ppbV	99
88) 1,2,3-trichloropropane	16.925	75	1055707	21.242	ppbV	100
89) nonane	17.017	43	1664967	20.592	ppbV	96
91) isopropylbenzene	17.325	105	2343986	21.043	ppbV	99
92) bromobenzene	17.400	77	1360312	21.217	ppbV	94
93) 2-chlorotoluene	17.733	126	688440	21.214	ppbV	95
94) n-propylbenzene	17.767	120	753668	21.530	ppbV	97
95) 4-chlorotoluene	17.792	126	663059	21.088	ppbV	97
96) 4-ethyl toluene	17.892	105	2401016	20.012	ppbV	99
97) 1,3,5-trimethylbenzene	17.950	105	2030805	19.491	ppbV	100
98) tert-butylbenzene	18.292	119	2065863	20.821	ppbV	99
99) 1,2,4-trimethylbenzene	18.300	105	2028857	19.281	ppbV	98
100) decane	18.383	57	1576923	21.105	ppbV	96
101) Benzyl Chloride	18.417	91	1327146	22.271	ppbV	100
102) 1,3-dichlorobenzene	18.425	146	1251416	19.637	ppbV	97
103) 1,4-dichlorobenzene	18.483	146	1228613	19.416	ppbV	97
104) sec-butylbenzene	18.525	105	2901444	20.783	ppbV	99
105) 1,2,3-trimethylbenzene	18.658	105	1868741	19.699	ppbV	98
106) p-isopropyltoluene	18.658	119	2478755	20.742	ppbV	99
107) 1,2-dichlorobenzene	18.775	146	1181851	19.712	ppbV	98
108) n-butylbenzene	19.017	91	2155120	21.227	ppbV	97
109) indan	18.825	117	1976281	20.259	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	1346846	20.801	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.167	75	537609	22.396	ppbV	98
112) undecane	19.475	57	1702719	21.267	ppbV	97
113) 1,2,4,5-tetramethylben...	19.692	119	205992	20.278	ppbV	100
114) dodecane	20.492	57	1679034	21.073	ppbV	99
115) 1,2,4-trichlorobenzene	20.350	180	827531	19.413	ppbV	98
116) naphthalene	20.467	128	2297692	22.427	ppbV	100
117) 1,2,3-trichlorobenzene	20.733	180	717004	22.208	ppbV	100
118) benzothiophene	20.533	134	4548321	21.554	ppbV	99
119) hexachlorobutadiene	20.833	225	734036	18.511	ppbV	99
120) 2-methylnaphthalene	21.742	142	743517	23.155	ppbV	99
121) 1-methylnaphthalene	22.017	142	910109	19.616	ppbV	98

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

```
Sub List     : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737681.D
Acq On    :  8 Jan 2024   1:35 AM
Operator  : AIRLAB17:RAY
Sample    : ITO15-SIMSTD20
Misc      : WG1872080
ALS Vial  : 0   Sample Multiplier: 1

Quant Time: Jan 08 14:49:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title  : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration
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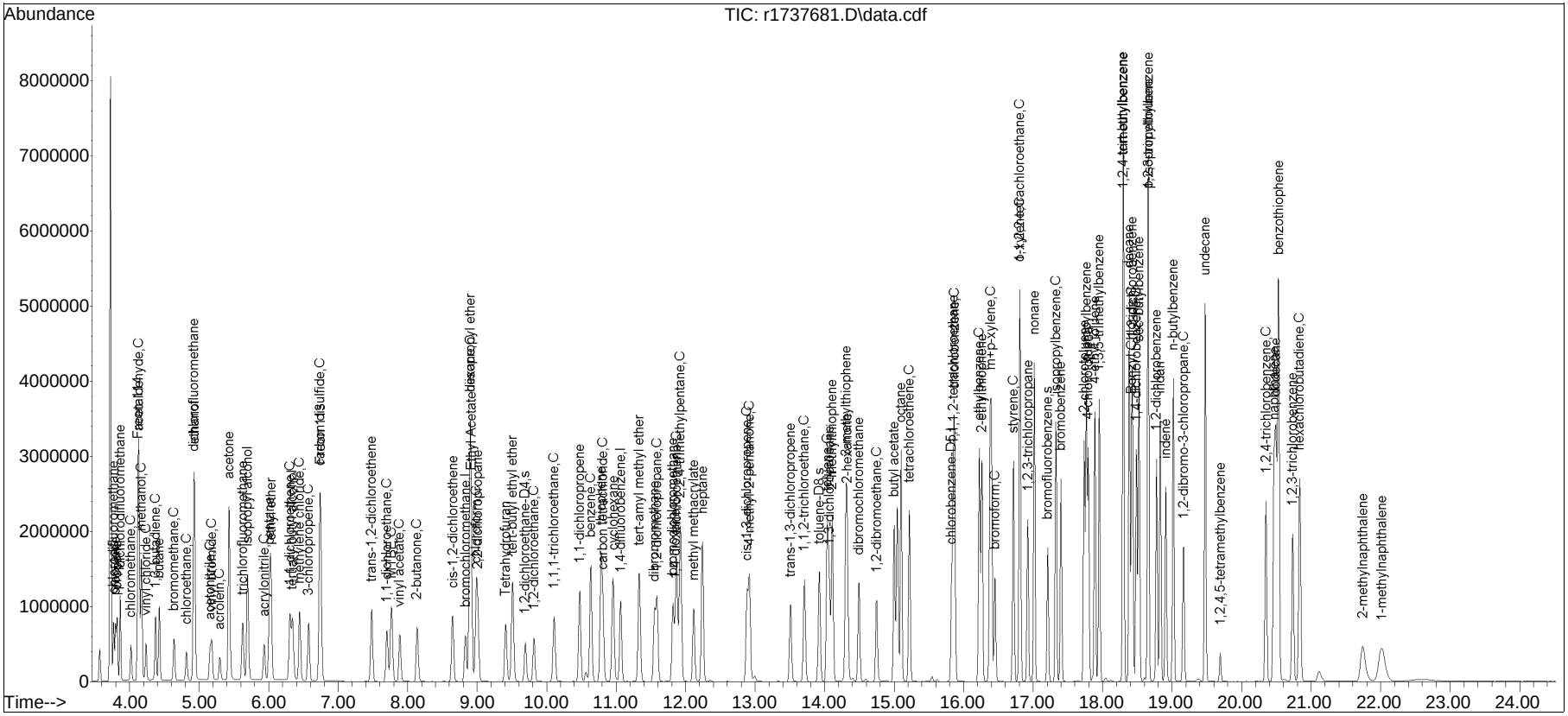
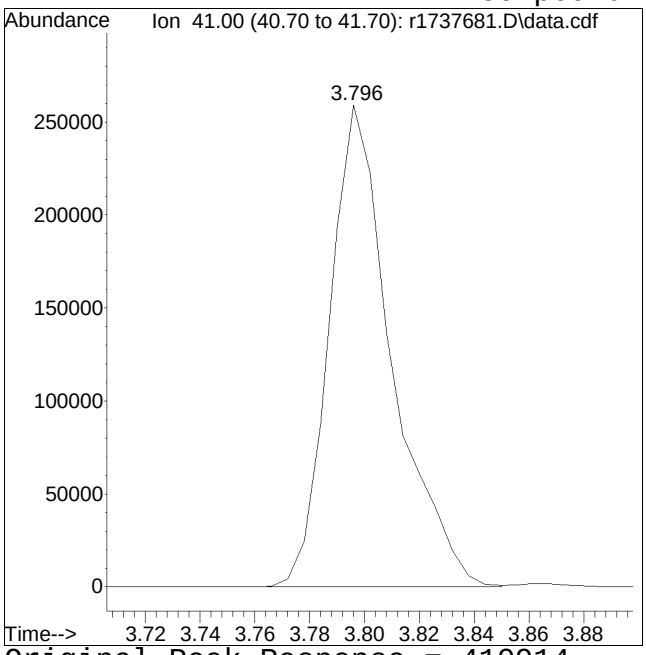


Manual Integration Report

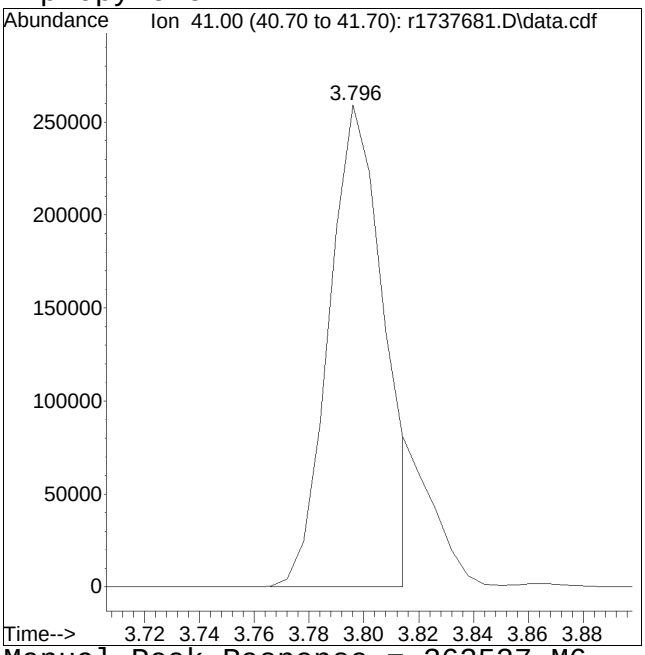
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737681.D
Date Inj'd : 1/8/2020 0:1: 5
Sample : ITO15-SIMSTD20

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 410914



Manual Peak Response = 363527 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	429091	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 100.73%			
43) 1,4-difluorobenzene	11.063	114	1101978	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 98.02%			
67) chlorobenzene-D5	15.825	54	153553	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 99.21%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.692	65	328839	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.17%			
69) toluene-D8	13.925	98	1111739	9.789	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.89%			
90) bromofluorobenzene	17.208	95	678969	9.670	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.70%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.766	51	1678081	47.357	ppbV	99
3) propylene	3.796	41	859425M6	47.338	ppbV	
4) propane	3.820	29	1264276	49.530	ppbV	98
5) dichlorodifluoromethane	3.862	85	1835661	44.361	ppbV	98
6) chloromethane	4.018	50	987623	44.891	ppbV	100
7) Freon-114	4.120	85	2169584	42.778	ppbV	97
8) methanol	4.168	31	2628951	249.052	ppbV	98
9) vinyl chloride	4.234	62	1030254	45.461	ppbV	99
10) 1,3-butadiene	4.372	54	866980	44.763	ppbV	98
11) butane	4.426	43	1477608	46.574	ppbV	99
12) acetaldehyde	4.132	29	3252946	220.312	ppbV	99
13) bromomethane	4.636	94	851019	45.538	ppbV	100
14) chloroethane	4.816	64	479326	46.448	ppbV	98
15) ethanol	4.936	31	4151061	220.326	ppbV	99
16) dichlorofluoromethane	4.918	67	1716948	47.862	ppbV	99
17) vinyl bromide	5.180	106	832109	46.844	ppbV	99
18) acrolein	5.297	56	507128	50.746	ppbV	96
19) acetone	5.427	43	5657962	228.799	ppbV	98
20) acetonitrile	5.157	41	859592	49.630	ppbV	97
21) trichlorofluoromethane	5.627	101	1483664	45.408	ppbV	99
22) isopropyl alcohol	5.700	45	3948821	115.201	ppbV	99
23) acrylonitrile	5.933	53	935766	49.534	ppbV	99
24) pentane	6.013	43	1808101	48.501	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.030	31	2107656	56.476	ppbV	98
26) 1,1-dichloroethene	6.306	61	1355485	46.456	ppbV	99
27) tertiary butyl alcohol	6.348	59	1921139	49.676	ppbV	99
28) methylene chloride	6.444	49	1462281	53.594	ppbV	92
29) 3-chloropropene	6.576	41	1475118	46.009	ppbV	99
30) carbon disulfide	6.738	76	3356085	45.056	ppbV	99
31) Freon 113	6.738	101	1902417	44.799	ppbV	97
32) trans-1,2-dichloroethene	7.483	61	1416192	46.146	ppbV	99
33) 1,1-dichloroethane	7.700	63	1769410	45.541	ppbV	100
34) MTBE	7.767	73	2647501	46.706	ppbV	99
35) vinyl acetate	7.892	43	2527055	47.659	ppbV	100
36) 2-butanone	8.133	43	2601639	48.857	ppbV	98
37) cis-1,2-dichloroethene	8.650	61	1320752	45.591	ppbV	98
38) Ethyl Acetate	8.917	61	359097	48.720	ppbV	79
39) chloroform	8.992	83	1860772	45.660	ppbV	99
40) Tetrahydrofuran	9.408	42	1427634	46.679	ppbV	100
41) 2,2-dichloropropane	9.008	77	1500518	48.475	ppbV	99
42) 1,2-dichloroethane	9.817	62	1024880	45.234	ppbV	99
44) hexane	8.900	57	1718006	47.910	ppbV	87
45) diisopropyl ether	8.900	87	937532	51.238	ppbV	79
46) tert-butyl ethyl ether	9.508	59	3121533	50.776	ppbV	99
48) 1,1,1-trichloroethane	10.108	97	1612405	51.129	ppbV	100
49) 1,1-dichloropropene	10.477	75	1650418	49.346	ppbV	99
50) benzene	10.637	78	3817306	46.100	ppbV	99
51) thiophene	10.783	84	2928899	54.654	ppbV	99
52) carbon tetrachloride	10.810	117	1484235	48.086	ppbV	99
53) cyclohexane	10.950	56	1846632	48.119	ppbV	99
54) tert-amyl methyl ether	11.330	73	3119066	49.938	ppbV	99
55) dibromomethane	11.550	93	1047753	49.815	ppbV	98
56) 1,2-dichloropropane	11.590	63	1202578	46.915	ppbV	99
57) bromodichloromethane	11.817	83	1914830	48.815	ppbV	98
58) 1,4-dioxane	11.843	88	778329	48.890	ppbV	100
59) trichloroethene	11.870	130	1491097	47.315	ppbV	98
60) 2,2,4-trimethylpentane	11.923	57	5427514	47.294	ppbV	99
61) methyl methacrylate	12.117	41	1370439	49.225	ppbV	100
62) heptane	12.237	43	2404120	46.215	ppbV	95
63) cis-1,3-dichloropropene	12.883	75	2011300	47.483	ppbV	99
64) 4-methyl-2-pentanone	12.917	43	2936741	46.780	ppbV	97
65) trans-1,3-dichloropropene	13.508	75	1619823	48.211	ppbV	100
66) 1,1,2-trichloroethane	13.708	97	1310894	45.952	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.042	91	3900558	45.378	ppbV		99
70)	2-methylthiophene	14.108	97	3930767	52.282	ppbV		100
71)	1,3-dichloropropane	14.067	76	2029741	49.027	ppbV		99
72)	2-hexanone	14.325	43	2772593	46.848	ppbV		95
73)	3-methylthiophene	14.308	97	3876618	52.712	ppbV		100
74)	dibromochloromethane	14.492	129	1832928	48.491	ppbV		99
75)	1,2-dibromoethane	14.750	107	2036837	45.464	ppbV		99
76)	butyl acetate	15.000	73	499941	49.980	ppbV		93
77)	octane	15.100	85	1475323	50.377	ppbV		94
78)	tetrachloroethene	15.217	166	1577226	45.993	ppbV		99
79)	1,1,1,2-tetrachloroethane	15.850	131	1449876	49.828	ppbV		100
80)	chlorobenzene	15.867	112	3351843	45.180	ppbV		99
81)	ethylbenzene	16.225	91	4998156	45.227	ppbV		99
82)	2-ethylthiophene	16.267	97	4336328	51.208	ppbV		97
83)	m+p-xylene	16.392	91	7782011	88.975	ppbV		99
84)	bromoform	16.450	173	1517567	50.676	ppbV		98
85)	styrene	16.717	104	3384981	44.500	ppbV		95
86)	1,1,2,2-tetrachloroethane	16.808	83	3006409	45.799	ppbV		100
87)	o-xylene	16.808	91	3891081	44.592	ppbV		100
88)	1,2,3-trichloropropane	16.925	75	2430898	49.510	ppbV		100
89)	nonane	17.017	43	3628710	45.427	ppbV	#	90
91)	isopropylbenzene	17.325	105	5198097	47.236	ppbV		95
92)	bromobenzene	17.400	77	3106026	49.038	ppbV		91
93)	2-chlorotoluene	17.733	126	1595894	49.778	ppbV		99
94)	n-propylbenzene	17.767	120	1773877	51.294	ppbV		86
95)	4-chlorotoluene	17.792	126	1559941	50.218	ppbV		91
96)	4-ethyl toluene	17.892	105	5371737	45.321	ppbV		96
97)	1,3,5-trimethylbenzene	17.950	105	4512922	43.843	ppbV		94
98)	tert-butylbenzene	18.300	119	4643394	47.371	ppbV		97
99)	1,2,4-trimethylbenzene	18.300	105	4481403	43.110	ppbV		95
100)	decane	18.383	57	3638924	49.298	ppbV		90
101)	Benzyl Chloride	18.417	91	3259492	55.365	ppbV		98
102)	1,3-dichlorobenzene	18.433	146	2880467	45.751	ppbV		98
103)	1,4-dichlorobenzene	18.483	146	2868883	45.891	ppbV		98
104)	sec-butylbenzene	18.525	105	6519970	47.273	ppbV		95
105)	1,2,3-trimethylbenzene	18.658	105	4159702	44.386	ppbV		98
106)	p-isopropyltoluene	18.658	119	5559231	47.088	ppbV		97
107)	1,2-dichlorobenzene	18.775	146	2709362	45.741	ppbV		97
108)	n-butylbenzene	19.017	91	4985731	49.707	ppbV		95
109)	indan	18.833	117	4533673	47.043	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

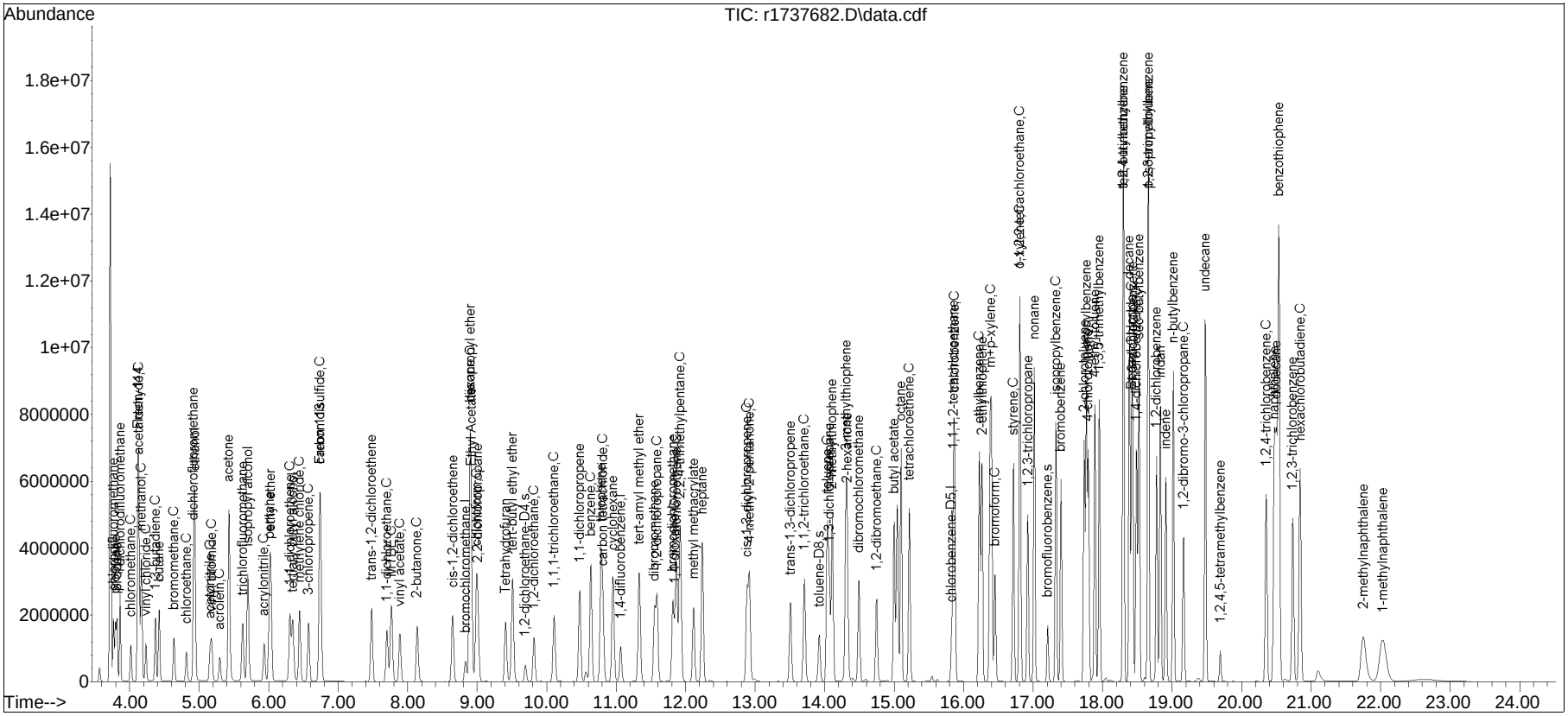
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	18.908	115	3177803	49.679	ppbV	97
111) 1,2-dibromo-3-chloropr...	19.167	75	1307381	55.129	ppbV	98
112) undecane	19.475	57	3948678	49.921	ppbV	93
113) 1,2,4,5-tetramethylben...	19.692	119	498638	49.686	ppbV	98
114) dodecane	20.500	57	3962351	50.337	ppbV	92
115) 1,2,4-trichlorobenzene	20.350	180	2112431	50.162	ppbV	98
116) naphthalene	20.467	128	5818385	57.486	ppbV	100
117) 1,2,3-trichlorobenzene	20.733	180	1876040	58.819	ppbV	98
118) benzothiophene	20.533	134	11638971	55.829	ppbV	98
119) hexachlorobutadiene	20.842	225	1742648	44.482	ppbV	99
120) 2-methylnaphthalene	21.750	142	2197674	69.278	ppbV	96
121) 1-methylnaphthalene	22.033	142	2623826	57.245	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737682.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

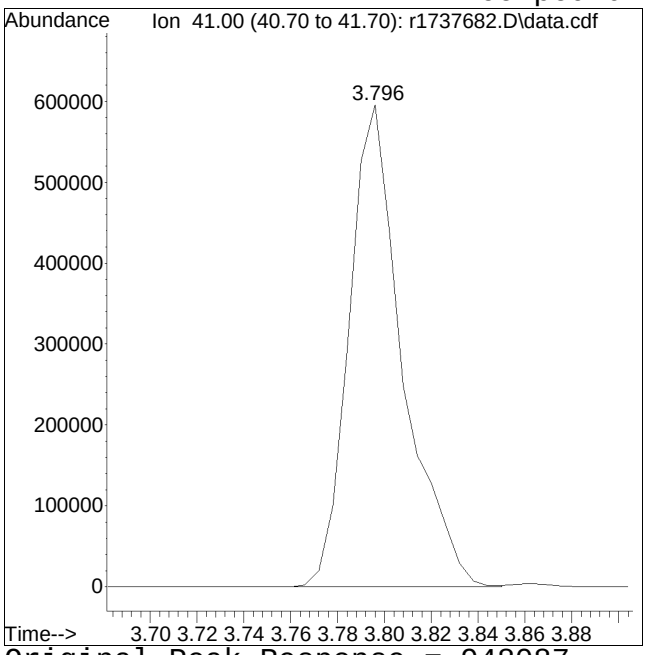


Manual Integration Report

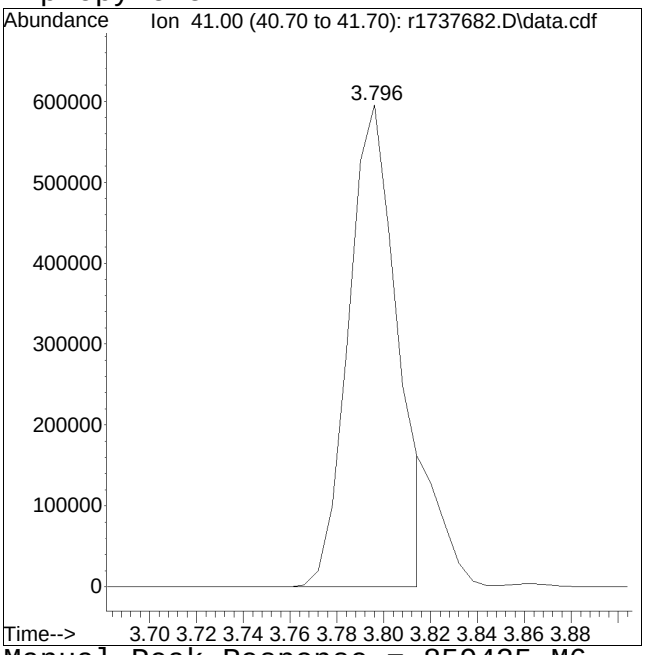
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737682.D
Date Inj'd : 1/8/2020 0:2: 4
Sample : ITO15-SIMSTD50

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 948087



Manual Peak Response = 859425 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	425403	10.000	ppbV	0.00
Standard Area = 426000			Recovery = 99.86%			
43) 1,4-difluorobenzene	11.063	114	1072129	10.000	ppbV	0.00
Standard Area = 1124227			Recovery = 95.37%			
67) chlorobenzene-D5	15.825	54	154296	10.000	ppbV	0.00
Standard Area = 154777			Recovery = 99.69%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.700	65	319298	9.798	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.98%			
69) toluene-D8	13.925	98	1096230	9.606	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.06%			
90) bromofluorobenzene	17.208	95	689269	9.769	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.69%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.766	51	3109919	88.527	ppbV	99
3) propylene	3.796	41	1566296M6	87.021	ppbV	
4) propane	3.820	29	2392796	94.555	ppbV	97
5) dichlorodifluoromethane	3.862	85	3207149	78.177	ppbV	98
6) chloromethane	4.018	50	1805166	82.762	ppbV	100
7) Freon-114	4.114	85	3807266	75.719	ppbV	96
8) methanol	4.168	31	4928716	470.967	ppbV	97
9) vinyl chloride	4.234	62	1965775	87.493	ppbV	100
10) 1,3-butadiene	4.372	54	1585642	82.578	ppbV	94
11) butane	4.426	43	2730859	86.823	ppbV	97
12) acetaldehyde	4.132	29	5451049	372.383	ppbV	94
13) bromomethane	4.636	94	1575329	85.027	ppbV	100
14) chloroethane	4.816	64	913799	89.318	ppbV	98
15) ethanol	4.942	31	7374358	394.802	ppbV	99
16) dichlorofluoromethane	4.924	67	3138375	88.245	ppbV	99
17) vinyl bromide	5.180	106	1530314	86.896	ppbV	98
18) acrolein	5.297	56	963448	97.243	ppbV	97
19) acetone	5.433	43	9990045	407.485	ppbV	98
20) acetonitrile	5.160	41	1610043	93.764	ppbV	97
21) trichlorofluoromethane	5.627	101	2766975	85.419	ppbV	99
22) isopropyl alcohol	5.707	45	7107817	209.157	ppbV	98
23) acrylonitrile	5.940	53	1759974	93.971	ppbV	100
24) pentane	6.013	43	3505887	94.859	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.033	31	4049047	109.437	ppbV		97
26) 1,1-dichloroethene	6.306	61	2560161	88.504	ppbV		99
27) tertiary butyl alcohol	6.354	59	3658338	95.416	ppbV		98
28) methylene chloride	6.450	49	2724007	100.703	ppbV		94
29) 3-chloropropene	6.576	41	2704881	85.096	ppbV		98
30) carbon disulfide	6.738	76	5936933	80.395	ppbV		99
31) Freon 113	6.744	101	3465181	82.307	ppbV		98
32) trans-1,2-dichloroethene	7.483	61	2642242	86.843	ppbV		99
33) 1,1-dichloroethane	7.700	63	3259899	84.630	ppbV		100
34) MTBE	7.767	73	4807797	85.552	ppbV		96
35) vinyl acetate	7.892	43	4582935	87.181	ppbV		98
36) 2-butanone	8.142	43	4496498	85.172	ppbV		97
37) cis-1,2-dichloroethene	8.650	61	2475368	86.188	ppbV		97
38) Ethyl Acetate	8.925	61	681530	93.266	ppbV	#	45
39) chloroform	8.992	83	3428095	84.848	ppbV		99
40) Tetrahydrofuran	9.408	42	2621772	86.466	ppbV		98
41) 2,2-dichloropropane	9.008	77	2771061	90.297	ppbV		96
42) 1,2-dichloroethane	9.817	62	1915969	85.297	ppbV		99
44) hexane	8.900	57	3210632	92.028	ppbV	#	67
45) diisopropyl ether	8.900	87	1790351	100.570	ppbV	#	60
46) tert-butyl ethyl ether	9.508	59	5934689	99.224	ppbV		97
48) 1,1,1-trichloroethane	10.108	97	2970352	96.812	ppbV		99
49) 1,1-dichloropropene	10.477	75	3023500	92.916	ppbV		98
50) benzene	10.637	78	6982884	86.677	ppbV		97
51) thiophene	10.790	84	5487238	105.243	ppbV		96
52) carbon tetrachloride	10.810	117	2769318	92.217	ppbV		100
53) cyclohexane	10.957	56	3544449	94.932	ppbV		97
54) tert-amyl methyl ether	11.337	73	5791005	95.298	ppbV		98
55) dibromomethane	11.557	93	1968780	96.211	ppbV		99
56) 1,2-dichloropropane	11.590	63	2255941	90.459	ppbV		99
57) bromodichloromethane	11.817	83	3591950	94.120	ppbV		99
58) 1,4-dioxane	11.850	88	1485995	95.940	ppbV		99
59) trichloroethene	11.870	130	2819926	91.972	ppbV		95
60) 2,2,4-trimethylpentane	11.923	57	10109091	90.541	ppbV		99
61) methyl methacrylate	12.117	41	2546880	94.028	ppbV		99
62) heptane	12.243	43	4330797	85.570	ppbV		92
63) cis-1,3-dichloropropene	12.883	75	3696602	89.700	ppbV		99
64) 4-methyl-2-pentanone	12.917	43	5318033	87.071	ppbV		94
65) trans-1,3-dichloropropene	13.508	75	3030684	92.714	ppbV		99
66) 1,1,2-trichloroethane	13.708	97	2453866	88.412	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68) toluene	14.042	91	7261022	84.065	ppbV		99
70) 2-methylthiophene	14.117	97	7223271	95.611	ppbV		99
71) 1,3-dichloropropane	14.075	76	3710062	89.182	ppbV		99
72) 2-hexanone	14.333	43	5000229	84.081	ppbV		92
73) 3-methylthiophene	14.308	97	7130361	96.487	ppbV		99
74) dibromochloromethane	14.492	129	3493781	91.985	ppbV		99
75) 1,2-dibromoethane	14.750	107	3741688	83.115	ppbV		98
76) butyl acetate	15.000	73	935012	93.025	ppbV		84
77) octane	15.100	85	2786580	94.694	ppbV		84
78) tetrachloroethene	15.217	166	2915319	84.603	ppbV		99
79) 1,1,1,2-tetrachloroethane	15.858	131	2714355	92.835	ppbV		97
80) chlorobenzene	15.875	112	5988591	80.333	ppbV		99
81) ethylbenzene	16.225	91	9182591	82.692	ppbV		98
82) 2-ethylthiophene	16.267	97	7904204	92.892	ppbV		97
83) m+p-xylene	16.400	91	14235739	161.979	ppbV		96
84) bromoform	16.450	173	2899523	96.357	ppbV		99
85) styrene	16.717	104	6071529	79.434	ppbV		94
86) 1,1,2,2-tetrachloroethane	16.808	83	5317025	80.609	ppbV		100
87) o-xylene	16.817	91	7004558	79.886	ppbV		98
88) 1,2,3-trichloropropane	16.925	75	4465352	90.507	ppbV		98
89) nonane	17.017	43	6273956	78.164	ppbV	#	81
91) isopropylbenzene	17.333	105	9164740	82.880	ppbV		92
92) bromobenzene	17.400	77	5630934	88.473	ppbV	#	86
93) 2-chlorotoluene	17.733	126	3001494	93.170	ppbV		94
94) n-propylbenzene	17.767	120	3328257	95.778	ppbV		75
95) 4-chlorotoluene	17.792	126	2947973	94.445	ppbV		89
96) 4-ethyl toluene	17.892	105	9472445	79.533	ppbV	#	89
97) 1,3,5-trimethylbenzene	17.950	105	8043185	77.764	ppbV		92
98) tert-butylbenzene	18.300	119	7946645	80.680	ppbV		93
99) 1,2,4-trimethylbenzene	18.300	105	7721600	73.921	ppbV		93
100) decane	18.383	57	6709917	90.465	ppbV		81
101) Benzyl Chloride	18.417	91	6234359	105.386	ppbV		94
102) 1,3-dichlorobenzene	18.433	146	5280545	83.469	ppbV		96
103) 1,4-dichlorobenzene	18.492	146	5264417	83.805	ppbV		97
104) sec-butylbenzene	18.525	105	11302913	81.557	ppbV	#	90
105) 1,2,3-trimethylbenzene	18.658	105	7138638	75.805	ppbV		99
106) p-isopropyltoluene	18.658	119	9455856	79.707	ppbV		91
107) 1,2-dichlorobenzene	18.775	146	5069417	85.173	ppbV		98
108) n-butylbenzene	19.017	91	9153118	90.815	ppbV		91
109) indan	18.833	117	8214985	84.831	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default - All compounds listed

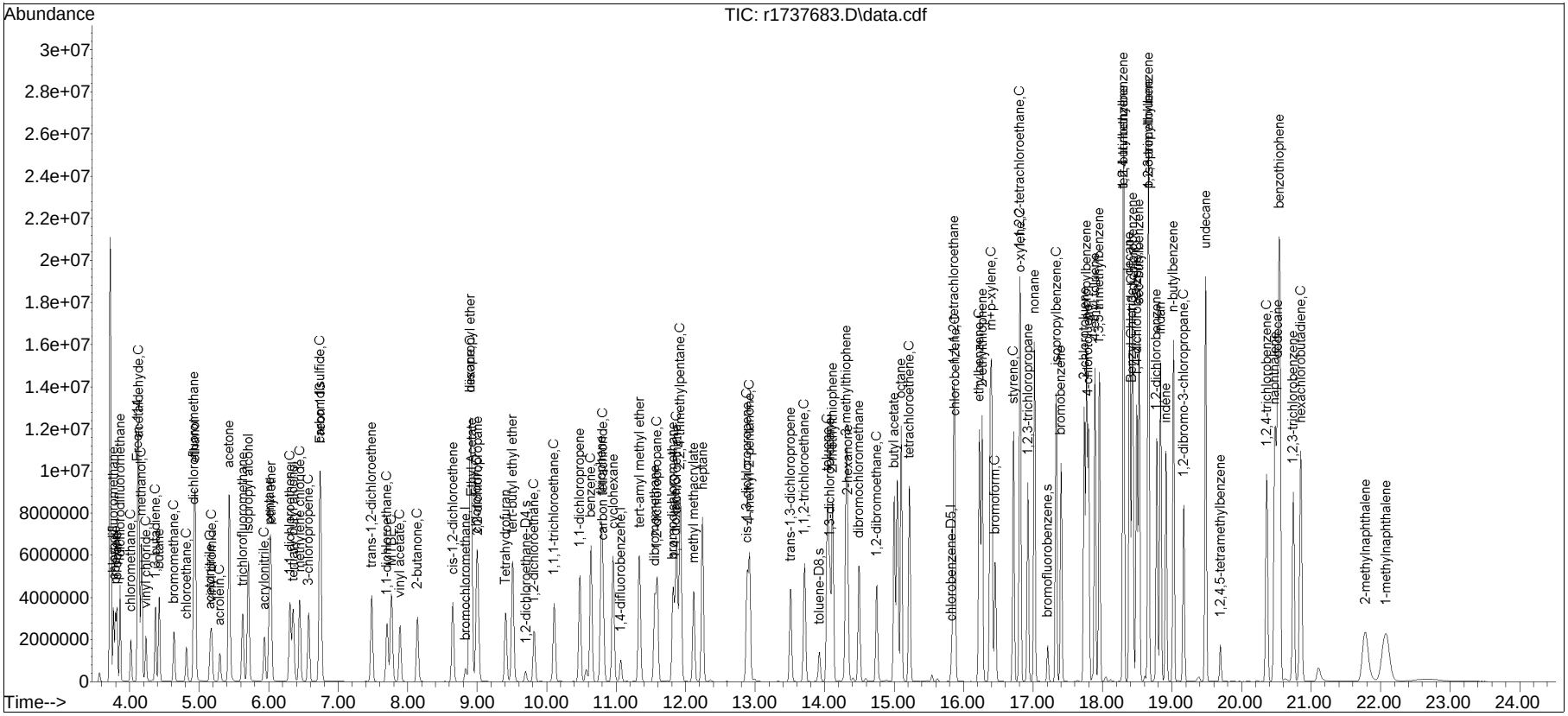
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	18.908	115	5941083	92.431	ppbV		96
111) 1,2-dibromo-3-chloropr...	19.167	75	2401890	100.795	ppbV		93
112) undecane	19.483	57	7370092	92.728	ppbV		85
113) 1,2,4,5-tetramethylben...	19.692	119	974441	96.629	ppbV		98
114) dodecane	20.517	57	7333380	92.714	ppbV		84
115) 1,2,4-trichlorobenzene	20.358	180	4100180	96.894	ppbV		98
116) naphthalene	20.475	128	10991204	108.071	ppbV		100
117) 1,2,3-trichlorobenzene	20.742	180	3612071	112.703	ppbV		99
118) benzothiophene	20.542	134	19008220	90.738	ppbV	#	93
119) hexachlorobutadiene	20.850	225	3288378	83.534	ppbV		98
120) 2-methylnaphthalene	21.783	142	4466088	140.108	ppbV		98
121) 1-methylnaphthalene	22.075	142	5275628	114.546	ppbV		95

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

Sub List : Default - All compounds listed4\01\0107T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737683.D
Acq On : 8 Jan 2024 2:55 AM
Operator : AIRLAB17:RAY
Sample : ITO15-LLSTD100
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 14:49:34 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 14:48:09 2024
Response via : Initial Calibration

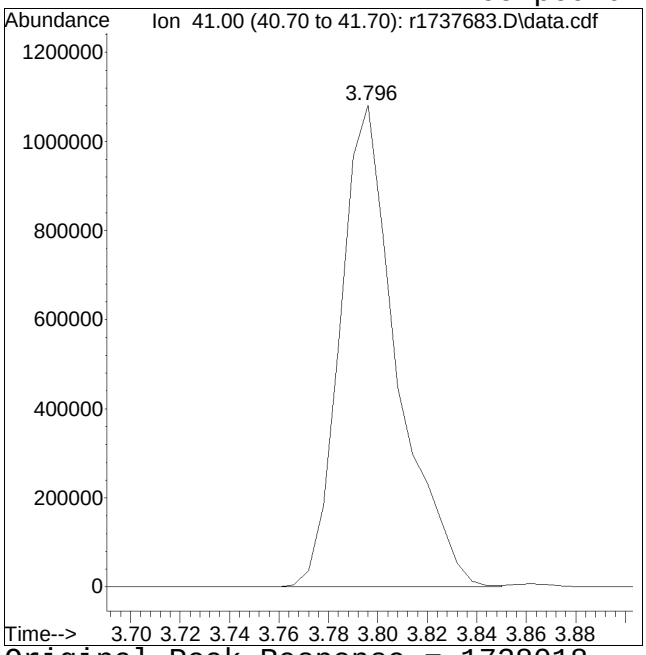


Manual Integration Report

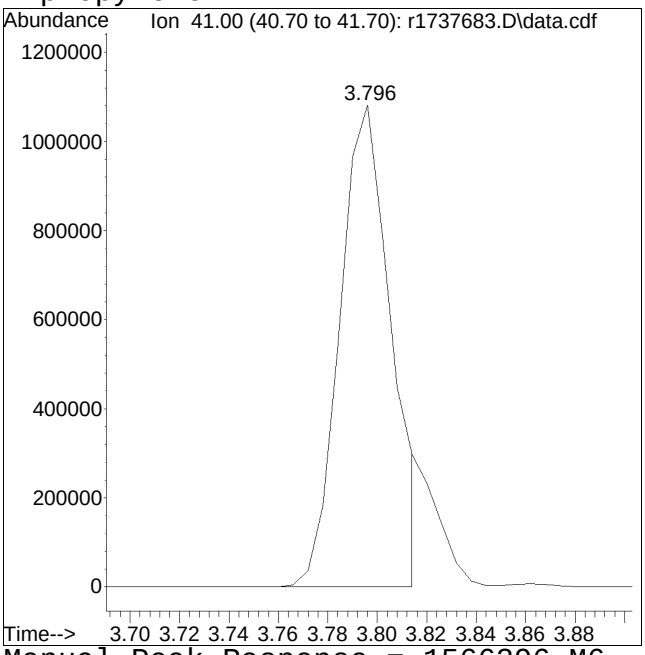
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737683.D
Date Inj'd : 1/8/2020 0:2: 5
Sample : ITO15-LLSTD100

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 2:49 pm

Compound #3: propylene



Original Peak Response = 1728018



Manual Peak Response = 1566296 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	95	-0.04
2		chlorodifluoromethane	0.844	0.803	4.9	92	-0.02
3		propylene	0.471	0.484	-2.8	108	-0.02
4		propane	0.624	0.625	-0.2	100	-0.02
5		dichlorodifluoromethane	0.948	0.899	5.2	88	-0.02
6	C	chloromethane	0.504	0.443	12.1	82	-0.02
7		Freon-114	1.154	1.203	-4.2	96	-0.02
8	C	methanol	0.253	0.235	7.1	90	-0.02
9	C	vinyl chloride	0.523	0.514	1.7	92	-0.02
10	C	1,3-butadiene	0.450	0.473	-5.1	99	-0.02
11		butane	0.770	0.715	7.1	92	-0.03
13	C	bromomethane	0.429	0.439	-2.3	95	-0.03
14	C	chloroethane	0.241	0.246	-2.1	97	-0.03
15		ethanol	0.428	0.477	-11.4	103	-0.03
16		dichlorofluoromethane	0.869	0.828	4.7	94	-0.03
17	C	vinyl bromide	0.412	0.422	-2.4	96	-0.03
18	C	acrolein	0.249	0.236	5.2	96	-0.04
19		acetone	0.609	0.584	4.1	96	-0.03
20	C	acetonitrile	0.425	0.411	3.3	96	-0.03
21		trichlorofluoromethane	0.750	0.744	0.8	93	-0.04
22		isopropyl alcohol	0.791	0.742	6.2	88	-0.04
23	C	acrylonitrile	0.462	0.450	2.6	97	-0.04
24		pentane	0.910	0.855	6.0	93	-0.04
25		ethyl ether	0.953	0.893	6.3	97	-0.04
26	C	1,1-dichloroethene	0.676	0.694	-2.7	97	-0.04
27		tertiary butyl alcohol	0.921	0.962	-4.5	101	-0.04
28	C	methylene chloride	0.670	0.608	9.3	90	-0.04
29	C	3-chloropropene	0.749	0.792	-5.7	100	-0.04
30	C	carbon disulfide	1.668	1.684	-1.0	92	-0.04
31		Freon 113	0.971	0.949	2.3	91	-0.04
32		trans-1,2-dichloroethene	0.704	0.726	-3.1	96	-0.04
33	C	1,1-dichloroethane	0.889	0.858	3.5	90	-0.03
34	C	MTBE	1.313	1.340	-2.1	96	-0.04
35	C	vinyl acetate	1.208	1.118	7.5	86	-0.03
36	C	2-butanone	1.222	1.229	-0.6	94	-0.04
37		cis-1,2-dichloroethene	0.662	0.655	1.1	92	-0.03
38		Ethyl Acetate	0.170	0.186	-9.4	103	-0.04
39	C	chloroform	0.940	0.939	0.1	94	-0.03
40		Tetrahydrofuran	0.693	0.691	0.3	92	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.736	0.706	4.1	93	-0.04
42	C	1,2-dichloroethane	0.536	0.497	7.3	89	-0.04
43	I	1,4-difluorobenzene	1.000	1.000	0.0	96	-0.03
44	C	hexane	0.331	0.343	-3.6	102	-0.03
45		diisopropyl ether	0.174	0.168	3.4	98	-0.04
46		tert-butyl ethyl ether	0.580	0.562	3.1	97	-0.03
47	s	1,2-dichloroethane-D4	0.305	0.292	4.3	93	-0.03
48	C	1,1,1-trichloroethane	0.288	0.266	7.6	89	-0.04
49		1,1-dichloropropene	0.312	0.311	0.3	99	-0.04
50	C	benzene	0.741	0.685	7.6	88	-0.04
52	C	carbon tetrachloride	0.271	0.267	1.5	92	-0.04
53		cyclohexane	0.354	0.375	-5.9	104	-0.04
54		tert-amyl methyl ether	0.584	0.552	5.5	94	-0.04
55		dibromomethane	0.198	0.191	3.5	96	-0.03
56	C	1,2-dichloropropane	0.228	0.217	4.8	90	-0.03
57		bromodichloromethane	0.348	0.382	-9.8	103	-0.04
58	C	1,4-dioxane	0.143	0.154	-7.7	103	-0.03
59	C	trichloroethene	0.282	0.268	5.0	90	-0.04
60	C	2,2,4-trimethylpentane	1.099	1.111	-1.1	103	-0.04
61		methyl methacrylate	0.247	0.258	-4.5	98	-0.03
62		heptane	0.466	0.468	-0.4	95	-0.04
63	C	cis-1,3-dichloropropene	0.371	0.364	1.9	91	-0.03
64	C	4-methyl-2-pentanone	0.552	0.559	-1.3	94	-0.03
65		trans-1,3-dichloropropene	0.290	0.284	2.1	90	-0.03
66	C	1,1,2-trichloroethane	0.253	0.241	4.7	90	-0.04
67	I	chlorobenzene-D5	1.000	1.000	0.0	97	-0.03
68	C	toluene	5.498	5.181	5.8	90	-0.03
69	s	toluene-D8	7.414	7.086	4.4	93	-0.03
71		1,3-dichloropropane	2.760	2.626	4.9	95	-0.03
72		2-hexanone	3.566	3.626	-1.7	92	-0.03
74		dibromochloromethane	2.321	2.717	-17.1	107	-0.03
75	C	1,2-dibromoethane	2.826	2.699	4.5	90	-0.03
76		butyl acetate	0.635	0.607	4.4	91	-0.03
77		octane	1.996	1.906	4.5	97	-0.03
78	C	tetrachloroethene	2.195	2.063	6.0	90	-0.03
79		1,1,1,2-tetrachloroethane	1.906	1.884	1.2	97	-0.02
80	C	chlorobenzene	4.722	4.490	4.9	90	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	ethylbenzene	6.927	6.606	4.6	89	-0.03
83	C	m+p-xylene	5.488	5.272	3.9	90	-0.03
84	C	bromoform	1.794	2.119	-18.1	106	-0.03
85	C	styrene	4.644	4.530	2.5	89	-0.02
86	C	1,1,2,2-tetrachloroethane	4.138	4.189	-1.2	95	-0.02
87	C	o-xylene	5.492	5.364	2.3	92	-0.02
88		1,2,3-trichloropropane	3.301	3.193	3.3	97	-0.03
89		nonane	5.239	4.847	7.5	91	-0.02
90	s	bromofluorobenzene	4.540	4.199	7.5	89	-0.02
91	C	isopropylbenzene	7.347	7.322	0.3	99	-0.02
92		bromobenzene	4.250	4.204	1.1	99	-0.03
93		2-chlorotoluene	2.139	2.048	4.3	95	-0.02
94		n-propylbenzene	2.332	2.256	3.3	98	-0.02
95		4-chlorotoluene	2.046	2.014	1.6	97	-0.03
96		4-ethyl toluene	7.571	7.824	-3.3	99	-0.02
97		1,3,5-trimethylbenzene	6.529	6.391	2.1	93	-0.02
98		tert-butylbenzene	6.472	6.392	1.2	97	-0.03
99		1,2,4-trimethylbenzene	6.497	6.307	2.9	91	-0.03
100		decane	4.934	4.812	2.5	97	-0.02
101	C	Benzyl Chloride	3.616	3.966	-9.7	101	-0.02
102		1,3-dichlorobenzene	3.907	3.931	-0.6	93	-0.02
103	C	1,4-dichlorobenzene	3.804	3.803	0.0	91	-0.03
104		sec-butylbenzene	9.210	9.022	2.0	98	-0.02
106		p-isopropyltoluene	7.833	7.112	9.2	90	-0.03
107		1,2-dichlorobenzene	3.724	3.613	3.0	91	-0.02
108		n-butylbenzene	6.717	6.738	-0.3	100	-0.02
111	C	1,2-dibromo-3-chloropropane	1.541	1.593	-3.4	100	-0.03
112		undecane	5.267	5.175	1.7	98	-0.02
114		dodecane	5.065	4.919	2.9	93	0.00
115	C	1,2,4-trichlorobenzene	2.469	2.312	6.4	82	-0.03
116		naphthalene	6.859	6.720	2.0	99	-0.03
117		1,2,3-trichlorobenzene	2.150	2.149	0.0	101	-0.02
119	C	hexachlorobutadiene	2.381	2.188	8.1	83	-0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.800	49	403285	10.000	ppbV	-0.04
Standard Area = 426000			Recovery = 94.67%			
43) 1,4-difluorobenzene	11.037	114	1083333	10.000	ppbV	-0.03
Standard Area = 1124227			Recovery = 96.36%			
67) chlorobenzene-D5	15.808	54	150636	10.000	ppbV	-0.03
Standard Area = 154777			Recovery = 97.32%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.667	65	316625	9.585	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.85%			
69) toluene-D8	13.892	98	1067437	9.558	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.58%			
90) bromofluorobenzene	17.192	95	632543	9.249	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.49%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.742	51	323965	9.518	ppbV	100
3) propylene	3.772	41	195247M6	10.270	ppbV	
4) propane	3.796	29	252250	10.026	ppbV	96
5) dichlorodifluoromethane	3.838	85	362409	9.481	ppbV	98
6) chloromethane	3.994	50	178482	8.789	ppbV	99
7) Freon-114	4.096	85	485313	10.426	ppbV	97
8) methanol	4.144	31	473262	46.397	ppbV	96
9) vinyl chloride	4.210	62	207226	9.833	ppbV	100
10) 1,3-butadiene	4.348	54	190921	10.523	ppbV	98
11) butane	4.396	43	288214	9.282	ppbV	98
13) bromomethane	4.612	94	177123	10.233	ppbV	99
14) chloroethane	4.792	64	99386	10.206	ppbV	97
15) ethanol	4.900	31	962420	55.759	ppbV	93
16) dichlorofluoromethane	4.894	67	333873	9.522	ppbV	99
17) vinyl bromide	5.150	106	170030	10.238	ppbV	99
18) acrolein	5.267	56	95371	9.511	ppbV	98
19) acetone	5.400	43	1178174	47.984	ppbV	98
20) acetonitrile	5.127	41	165631	9.661	ppbV	96
21) trichlorofluoromethane	5.593	101	300230	9.925	ppbV	100
22) isopropyl alcohol	5.663	45	748395	23.457	ppbV	98
23) acrylonitrile	5.903	53	181617	9.751	ppbV	99
24) pentane	5.983	43	344956	9.401	ppbV	98
25) ethyl ether	6.003	31	360265	9.374	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
26) 1,1-dichloroethene	6.276	61	280056	10.267	ppbV	99
27) tertiary butyl alcohol	6.312	59	387829	10.442	ppbV	97
28) methylene chloride	6.414	49	245027	9.063	ppbV	99
29) 3-chloropropene	6.546	41	319284	10.576	ppbV	98
30) carbon disulfide	6.708	76	679114	10.094	ppbV	99
31) Freon 113	6.714	101	382658	9.768	ppbV	99
32) trans-1,2-dichloroethene	7.450	61	292740	10.314	ppbV	98
33) 1,1-dichloroethane	7.675	63	346082	9.655	ppbV	100
34) MTBE	7.733	73	540392	10.204	ppbV	98
35) vinyl acetate	7.858	43	450725	9.249	ppbV	98
36) 2-butanone	8.108	43	495725	10.056	ppbV	100
37) cis-1,2-dichloroethene	8.617	61	264349	9.902	ppbV	96
38) Ethyl Acetate	8.883	61	75056	10.943	ppbV	97
39) chloroform	8.958	83	378555	9.988	ppbV	97
40) Tetrahydrofuran	9.383	42	278665	9.965	ppbV	99
41) 2,2-dichloropropane	8.975	77	284892	9.592	ppbV	98
42) 1,2-dichloroethane	9.783	62	200575	9.286	ppbV	99
44) hexane	8.875	57	372102	10.383	ppbV	97
45) diisopropyl ether	8.867	87	182469	9.679	ppbV	85
46) tert-butyl ethyl ether	9.483	59	608378	9.676	ppbV	99
48) 1,1,1-trichloroethane	10.075	97	287759	9.221	ppbV	98
49) 1,1-dichloropropene	10.443	75	337054	9.962	ppbV	98
50) benzene	10.603	78	742257	9.245	ppbV	99
52) carbon tetrachloride	10.777	117	289628	9.856	ppbV	98
53) cyclohexane	10.923	56	406538	10.608	ppbV	96
54) tert-amyl methyl ether	11.303	73	597817	9.454	ppbV	98
55) dibromomethane	11.523	93	207009	9.654	ppbV	98
56) 1,2-dichloropropane	11.557	63	235586	9.548	ppbV	98
57) bromodichloromethane	11.783	83	413347	10.977	ppbV	98
58) 1,4-dioxane	11.823	88	167100	10.815	ppbV	100
59) trichloroethene	11.837	130	290008	9.494	ppbV	98
60) 2,2,4-trimethylpentane	11.890	57	1203775	10.113	ppbV	97
61) methyl methacrylate	12.090	41	279510	10.440	ppbV	99
62) heptane	12.210	43	506662	10.039	ppbV	94
63) cis-1,3-dichloropropene	12.858	75	393882	9.796	ppbV	98
64) 4-methyl-2-pentanone	12.892	43	605143	10.115	ppbV	96
65) trans-1,3-dichloropropene	13.483	75	307834	9.794	ppbV	99
66) 1,1,2-trichloroethane	13.675	97	260748	9.511	ppbV	97
68) toluene	14.008	91	780373	9.423	ppbV	99
71) 1,3-dichloropropane	14.042	76	395505	9.511	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72) 2-hexanone	14.300	43	546243	10.169	ppbV	96
74) dibromochloromethane	14.467	129	409238	11.704	ppbV	97
75) 1,2-dibromoethane	14.725	107	406610	9.553	ppbV	99
76) butyl acetate	14.975	73	91456	9.565	ppbV	89
77) octane	15.075	85	287071	9.548	ppbV	94
78) tetrachloroethene	15.192	166	310703	9.396	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.833	131	283765	9.883	ppbV	99
80) chlorobenzene	15.850	112	676338	9.508	ppbV	99
81) ethylbenzene	16.200	91	995067	9.537	ppbV	99
83) m+p-xylene	16.367	91	1588312	19.212	ppbV	99
84) bromoform	16.425	173	319238	11.810	ppbV	100
85) styrene	16.692	104	682335	9.754	ppbV	97
86) 1,1,2,2-tetrachloroethane	16.783	83	631076	10.123	ppbV	99
87) o-xylene	16.792	91	807975	9.766	ppbV	98
88) 1,2,3-trichloropropane	16.900	75	480973	9.672	ppbV	99
89) nonane	17.000	43	730159	9.251	ppbV	94
91) isopropylbenzene	17.308	105	1102908	9.965	ppbV	100
92) bromobenzene	17.383	77	633276	9.891	ppbV	98
93) 2-chlorotoluene	17.717	126	308568	9.574	ppbV	89
94) n-propylbenzene	17.742	120	339904	9.674	ppbV	97
95) 4-chlorotoluene	17.775	126	303451	9.848	ppbV	98
96) 4-ethyl toluene	17.867	105	1178516	10.334	ppbV	99
97) 1,3,5-trimethylbenzene	17.933	105	962666	9.788	ppbV	100
98) tert-butylbenzene	18.275	119	962922	9.876	ppbV	99
99) 1,2,4-trimethylbenzene	18.275	105	950113	9.708	ppbV	93
100) decane	18.367	57	724930	9.753	ppbV	96
101) Benzyl Chloride	18.400	91	597440	10.969	ppbV	99
102) 1,3-dichlorobenzene	18.408	146	592151	10.063	ppbV	99
103) 1,4-dichlorobenzene	18.467	146	572936	9.998	ppbV	98
104) sec-butylbenzene	18.500	105	1359059	9.796	ppbV	99
106) p-isopropyltoluene	18.633	119	1071248	9.079	ppbV	97
107) 1,2-dichlorobenzene	18.758	146	544177	9.700	ppbV	96
108) n-butylbenzene	19.000	91	1014915	10.030	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.142	75	239991	10.339	ppbV	95
112) undecane	19.467	57	779601	9.825	ppbV	96
114) dodecane	20.508	57	740986	9.712	ppbV	96
115) 1,2,4-trichlorobenzene	20.333	180	348300	9.365	ppbV	99
116) naphthalene	20.450	128	1012212	9.796	ppbV	99
117) 1,2,3-trichlorobenzene	20.725	180	323689	9.995	ppbV	99
119) hexachlorobutadiene	20.833	225	329563	9.189	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107T_I\r1737680.D
Sub List : Default-ICV-AP2 - All compounds listed

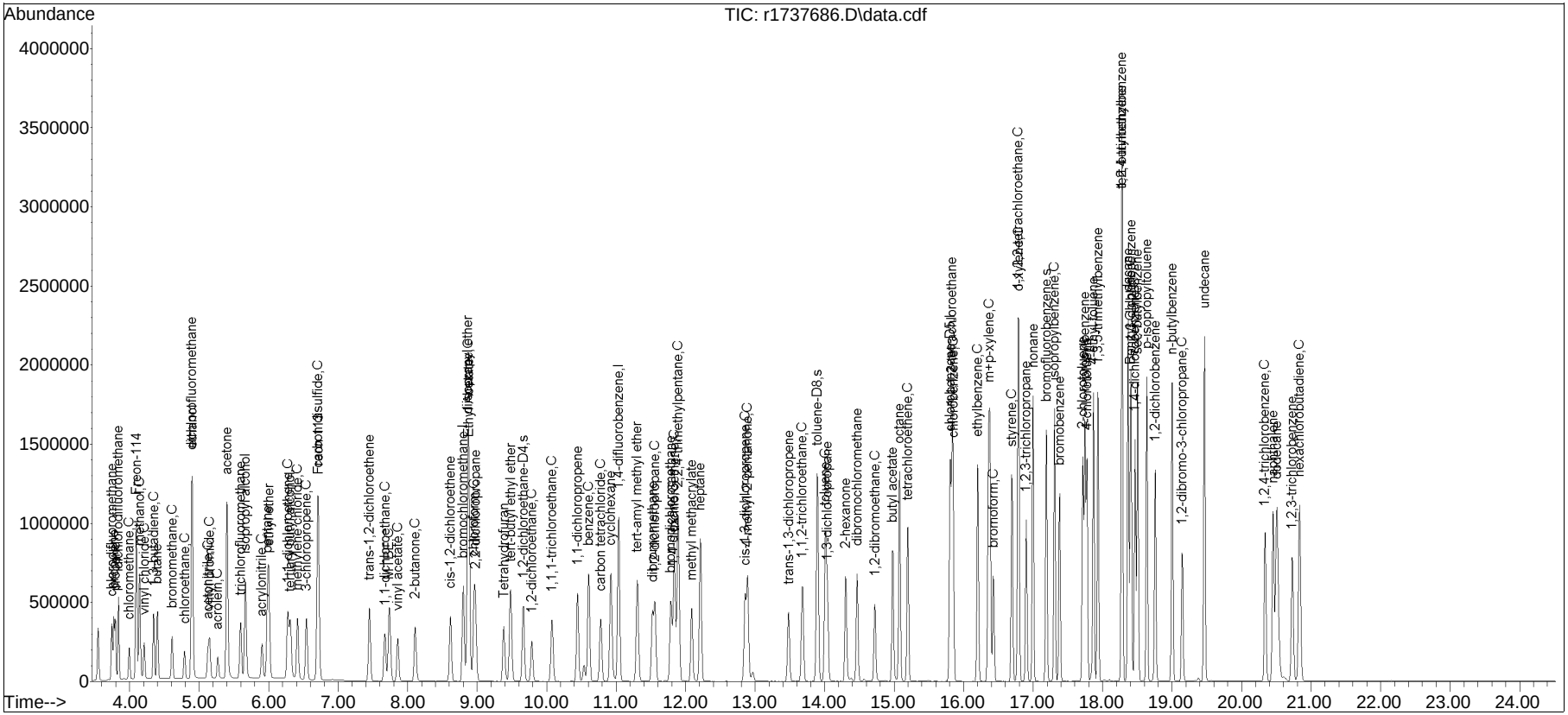
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed7T_I\r1737680.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107T_I\
Data File : r1737686.D
Acq On : 8 Jan 2024 1:00 PM
Operator : AIRLAB17:RAY
Sample : CTO15-LLSTD10.0
Misc : WG1872080
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:05:16 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107T_I\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

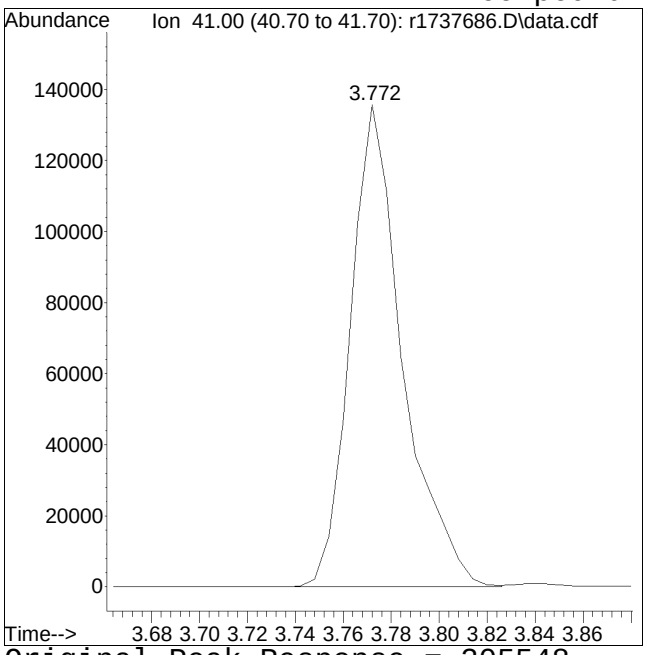


Manual Integration Report

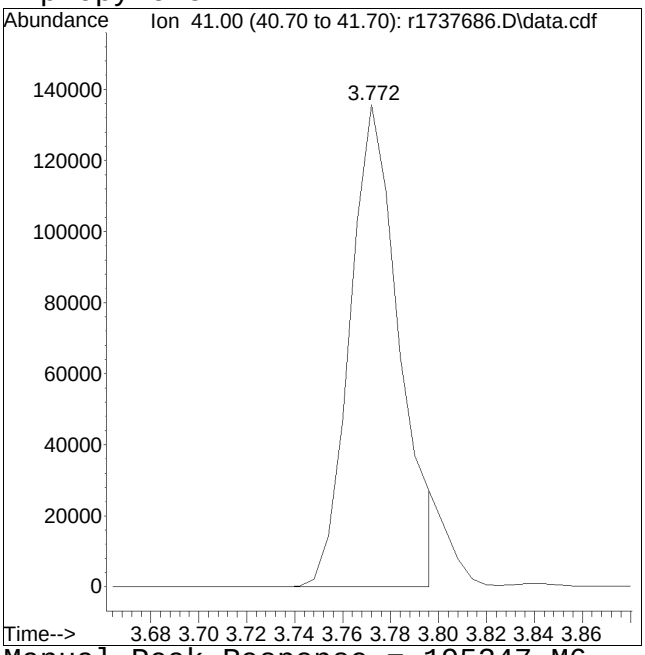
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737686.D
Date Inj'd : 1/8/2020 0:1: 0
Sample : CTO15-LLSTD10.0

Method : TFS17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:05 pm

Compound #3: propylene



Original Peak Response = 205548



Manual Peak Response = 195247 M6

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

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Method File : TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D
50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
1)	I	bromochloromethane	ISTD									
2)		chlorodifluoromethane	1.142	0.996	0.965	0.944	0.839	0.927	0.764	0.658	0.9044	16.47
3)		propylene		0.763	0.652	0.702	0.735	0.746	0.635	0.577	0.6870	9.91
4)		propane		0.811	0.758	0.731	0.699	0.729	0.615	0.526	0.6956	13.77
5)		dichlorodifluoromethane	1.411	1.322	1.282	1.309	1.212	1.134	0.910	0.735	1.1644	19.81
6)	C	chloromethane	0.657	0.615	0.596	0.619	0.588	0.582	0.499	0.436	0.5739	12.50
7)		Freon-114	1.689	1.617	1.564	1.622	1.516	1.431	1.123	0.861	1.4278	20.22
8)	C	methanol			0.331	0.305	0.283	0.292	0.239	0.194	0.2743	18.03
9)	C	vinyl chloride	0.933	0.870	0.844	0.877	0.819	0.773	0.628	0.519	0.7827	17.91
10)	C	1,3-butadiene	0.616	0.582	0.573	0.603	0.568	0.558	0.467	0.394	0.5451	13.92
11)		butane	1.553	1.452	1.377	1.310	1.250	1.303	1.110	0.939	1.2867	14.99
12)	C	acetaldehyde		0.361	0.343	0.341	0.307	0.283	0.222	0.173	0.2898	24.01
13)	C	bromomethane	0.641	0.611	0.588	0.622	0.590	0.565	0.463	0.381	0.5576	16.07
14)	C	chloroethane	0.472	0.442	0.421	0.442	0.417	0.406	0.335	0.278	0.4016	15.93
15)		ethanol			0.543	0.454	0.418	0.420	0.314	0.242	0.3984	26.66
16)		dichlorofluoromethane	1.705	1.594	1.506	1.450	1.432	1.437	1.051	0.765	1.3675	22.50
17)	C	vinyl bromide	0.755	0.710	0.675	0.696	0.666	0.640	0.520	0.524	0.6483	13.10
18)	C	acrolein		0.391	0.370	0.382	0.366	0.394	0.349	0.313	0.3666	7.68
19)		acetone	1.302	1.184	1.126	1.117	1.076	1.089	0.910	0.724	1.0660	16.54
20)	C	acetonitrile	0.938	0.825	0.790	0.779	0.746	0.784	0.672	0.743	0.7846	9.78
21)		trichlorofluoromethane	1.436	1.341	1.293	1.346	1.268	1.231	1.000	0.779	1.2118	17.86
22)		isopropyl alcohol	1.414	1.316	1.254	1.350	1.325	1.388	1.257	1.097	1.3002	7.65
23)	C	acrylonitrile	0.662	0.634	0.621	0.622	0.604	0.660	0.601	0.542	0.6183	6.19
24)		pentane	1.870	1.760	1.681	1.607	1.562	1.720	1.565	1.470	1.6543	7.76
25)		ethyl ether	1.430	1.320	1.302	1.481	1.482	1.702	1.363	1.173	1.4066	11.21
26)	C	1,1-dichloroethene	1.334	1.270	1.207	1.276	1.214	1.205	1.017	0.835	1.1698	14.01
27)		tertiary butyl alcohol		1.629	1.571	1.625	1.610	1.718	1.476	1.233	1.5516	10.20
28)	C	methylene chloride		0.857	0.808	0.825	0.795	0.797	0.717	0.648	0.7784	9.19
29)	C	3-chloropropene	1.252	1.154	1.121	1.199	1.173	1.227	1.138	1.045	1.1636	5.60
30)	C	carbon disulfide	2.176	2.092	2.088	2.266	2.280	2.403	2.134	1.795	2.1542	8.38
31)		Freon 113	1.587	1.486	1.382	1.470	1.409	1.400	1.185	0.953	1.3589	14.72

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Method File : TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D
50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
32)		trans-1,2-dichloroethene	1.335	1.283	1.224	1.285	1.237	1.255	1.084	0.905	1.2010	11.67
33)	C	1,1-dichloroethane	1.716	1.636	1.555	1.639	1.590	1.596	1.406	1.193	1.5413	10.80
34)	C	MTBE	2.154	2.045	1.971	2.089	2.033	2.109	1.881	1.614	1.9868	8.71
35)	C	vinyl acetate			1.696	1.666	1.653	1.768	1.682	1.554	1.6697	4.17
36)	C	2-butanone		1.646	1.628	1.811	1.784	1.861	1.728	1.577	1.7192	6.14
37)		cis-1,2-dichloroethene	1.252	1.196	1.136	1.212	1.172	1.167	1.011	0.842	1.1234	11.93
38)		Ethyl Acetate	0.303	0.289	0.290	0.323	0.320	0.331	0.290	0.243	0.2986	9.31
39)	C	chloroform	1.358	1.285	1.250	1.326	1.266	1.252	1.082	0.895	1.2142	12.57
40)		Tetrahydrofuran	1.168	1.065	0.989	1.076	1.071	1.122	1.060	0.981	1.0666	5.81
41)		2,2-dichloropropane	1.111	1.047	1.002	1.032	1.003	1.071	0.908	0.735	0.9886	12.01
42)	C	1,2-dichloroethane	1.184	1.027	0.951	0.969	0.924	0.881	0.715	0.557	0.9009	21.28
43)	I	1,4-difluorobenzene	----------	ISTD	----------							
44)	C	hexane	0.504	0.490	0.464	0.489	0.469	0.467	0.391	0.323	0.4495	13.71
45)		diisopropyl ether	0.255	0.249	0.240	0.242	0.233	0.247	0.219	0.187	0.2339	9.34
46)		tert-butyl ethyl ether	0.929	0.896	0.863	0.877	0.846	0.890	0.753	0.634	0.8362	11.57
47)	s	1,2-dichloroethane-D4	0.470	0.475	0.464	0.466	0.453	0.426	0.380	0.335	0.4338	11.69
48)	C	1,1,1-trichloroethane	0.395	0.373	0.363	0.389	0.370	0.358	0.318	0.253	0.3524	13.21
49)		1,1-dichloropropene	0.374	0.353	0.346	0.348	0.337	0.363	0.330	0.296	0.3433	6.86
50)	C	benzene	0.917	0.845	0.807	0.855	0.832	0.840	0.781	0.701	0.8223	7.63
51)		thiophene	0.676	0.651	0.628	0.589	0.568	0.664	0.596	0.526	0.6122	8.44
52)	C	carbon tetrachloride	0.297	0.288	0.289	0.316	0.308	0.301	0.251	0.202	0.2814	13.37
53)		cyclohexane	0.523	0.504	0.475	0.498	0.481	0.485	0.428	0.380	0.4718	9.76
54)		tert-amyl methyl ether	0.776	0.753	0.729	0.740	0.734	0.793	0.720	0.639	0.7356	6.26
55)		dibromomethane	0.252	0.237	0.233	0.235	0.228	0.241	0.208	0.179	0.2265	10.12
56)	C	1,2-dichloropropane	0.359	0.343	0.330	0.358	0.349	0.351	0.311	0.266	0.3332	9.45
57)		bromodichloromethane	0.358	0.366	0.359	0.397	0.392	0.393	0.349	0.303	0.3645	8.53
58)	C	1,4-dioxane	0.176	0.183	0.178	0.198	0.191	0.197	0.179	0.160	0.1827	6.91
59)	C	trichloroethene	0.357	0.334	0.328	0.350	0.339	0.338	0.301	0.257	0.3255	9.91
60)	C	2,2,4-trimethylpentane	1.796	1.711	1.642	1.569	1.465	1.510	1.290	1.059	1.5052	15.82
61)		methyl methacrylate		0.299	0.299	0.342	0.341	0.354	0.323	0.293	0.3218	7.76
62)		heptane	0.561	0.547	0.529	0.554	0.547	0.565	0.517	0.467	0.5359	6.01

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Method File : TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D
50 =r328245.D 100 =r328246.D

		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
63)	C	cis-1,3-dichloropropene	0.379	0.378	0.381	0.439	0.436	0.446	0.410	0.372	0.4052	7.74
64)	C	4-methyl-2-pentanone		0.611	0.602	0.668	0.656	0.676	0.616	0.558	0.6267	6.73
65)		trans-1,3-dichloropropene	0.281	0.291	0.299	0.352	0.351	0.357	0.326	0.294	0.3188	9.80
66)	C	1,1,2-trichloroethane	0.334	0.323	0.306	0.336	0.326	0.324	0.287	0.255	0.3113	8.90
67)	I	chlorobenzene-D5	----------ISTD----------									
68)	C	toluene	7.359	6.862	6.730	7.149	6.986	7.273	6.764	6.074	6.8996	5.88
69)	s	toluene-D8	0.935	0.937	0.930	0.932	0.933	0.965	1.005	1.042	0.9601	4.36
70)		2-methylthiophene	7.292	6.945	6.726	6.150	6.102	7.422	6.774	6.020	6.6789	8.11
71)		1,3-dichloropropane	3.166	3.062	3.000	3.021	3.021	3.462	3.357	3.103	3.1490	5.45
72)		2-hexanone	3.217	3.456	3.482	4.153	4.270	4.741	4.538	3.992	3.9811	13.79
73)		3-methylthiophene	7.099	6.854	6.619	6.117	6.062	7.309	6.624	5.679	6.5453	8.50
74)		dibromochloromethane	2.065	2.059	2.142	2.523	2.606	2.814	2.662	2.340	2.4012	12.15
75)	C	1,2-dibromoethane	2.932	2.892	2.883	3.210	3.250	3.414	3.154	2.758	3.0615	7.40
76)		butyl acetate		0.814	0.894	0.983	1.024	1.193	1.186	1.123	1.0309	14.13
77)		octane	2.875	2.673	2.629	2.587	2.569	2.918	2.733	2.491	2.6845	5.57
78)	C	tetrachloroethene	3.013	2.869	2.776	2.931	2.987	3.062	2.720	2.250	2.8261	9.22
79)		1,1,1,2-tetrachloroethane	2.109	2.038	2.033	2.076	2.081	2.333	2.117	1.745	2.0663	7.77
80)	C	chlorobenzene	5.390	5.120	4.960	5.350	5.391	5.708	5.136	4.216	5.1591	8.60
81)	C	ethylbenzene	8.831	8.555	8.357	8.982	8.902	9.075	8.292	7.391	8.5482	6.43
82)		2-ethylthiophene	7.595	7.410	7.306	6.798	6.732	7.976	7.167	6.100	7.1355	8.16
83)	C	m+p-xylene	7.223	7.009	6.819	7.322	7.197	7.280	6.439	5.421	6.8388	9.42
84)	C	bromoform	1.600	1.621	1.755	2.270	2.463	2.733	2.535	2.108	2.1356	20.48
85)	C	styrene	5.179	5.234	5.211	5.994	6.114	6.401	5.826	5.122	5.6350	8.98
86)	C	1,1,2,2-tetrachloroethane	4.627	4.468	4.427	4.914	4.899	5.187	4.788	3.885	4.6495	8.56
87)	C	o-xylene	7.380	7.034	6.853	7.400	7.233	7.227	6.223	4.934	6.7855	12.38
88)		1,2,3-trichloropropane	3.614	3.482	3.510	3.560	3.593	4.084	3.879	3.527	3.6561	5.81
89)		nonane	5.648	5.392	5.287	5.434	5.467	6.142	5.779	5.108	5.5321	5.80
90)	s	bromofluorobenzene	6.069	6.060	5.962	6.044	6.042	6.013	6.163	6.449	6.1002	2.49
91)	C	isopropylbenzene	9.180	8.878	8.597	8.872	8.801	9.615	8.404	6.925	8.6591	9.13
92)		bromobenzene	4.972	4.777	4.689	4.742	4.774	5.402	5.042	4.432	4.8538	5.93
93)		2-chlorotoluene	2.573	2.415	2.430	2.476	2.472	2.813	2.644	2.346	2.5210	5.96

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Method File : TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024
Response Via : Initial Calibration

Calibration Files
0.2 =r328239.D 0.5 =r328240.D 1.0 =r328241.D 5.0 =r328242.D 10 =r328243.D 20 =r328244.D
50 =r328245.D 100 =r328246.D

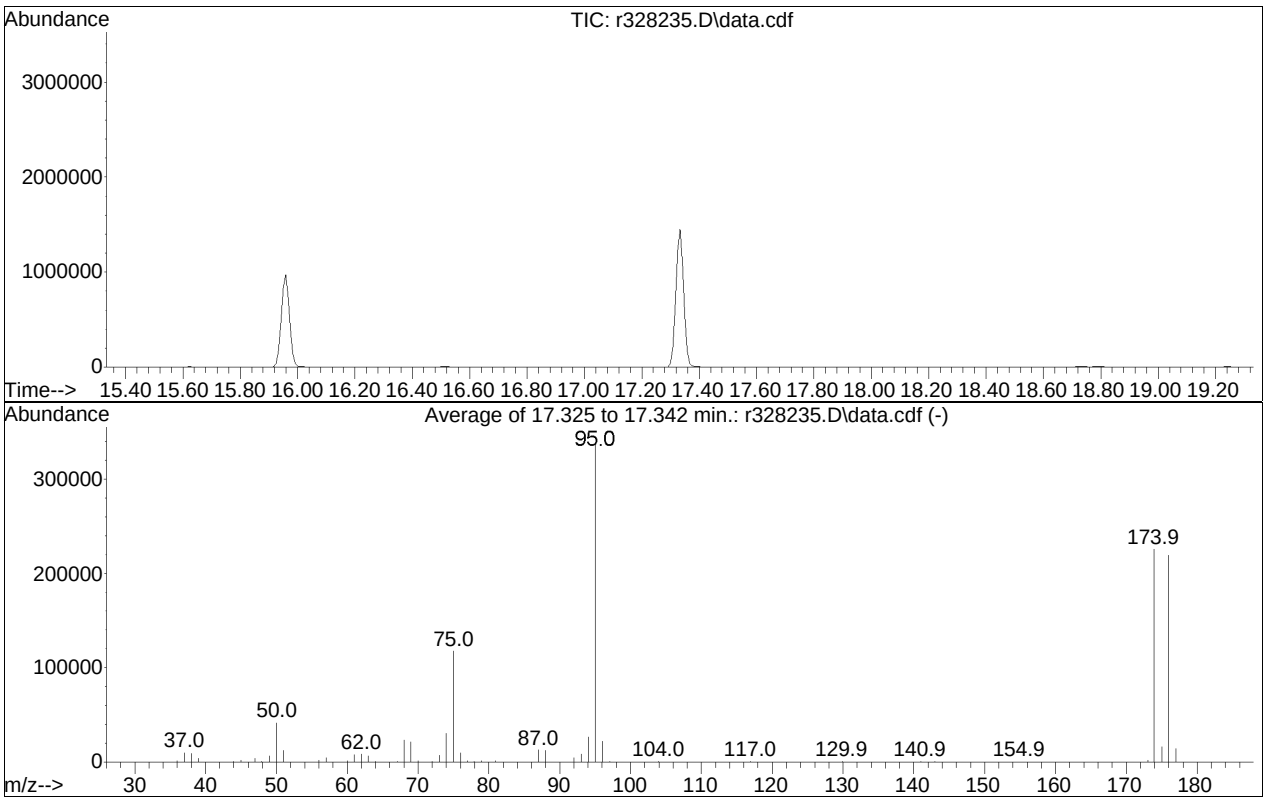
		Compound	0.2	0.5	1.0	5.0	10	20	50	100	Avg	%RSD
94)		n-propylbenzene	2.744	2.801	2.770	2.885	2.867	3.258	3.029	2.535	2.8611	7.46
95)		4-chlorotoluene	2.324	2.424	2.368	2.397	2.400	2.667	2.521	2.306	2.4258	4.85
96)		4-ethyl toluene	0.872	0.888	0.880	0.962	0.970	1.001	0.870	0.712	0.8944	10.00
97)		1,3,5-trimethylbenzene	8.446	7.920	7.977	8.581	8.455	8.574	7.361	6.035	7.9187	10.98
98)		tert-butylbenzene	8.568	8.401	8.106	8.314	8.135	8.607	6.744	5.014	7.7361	16.14
99)		1,2,4-trimethylbenzene	8.189	7.834	7.923	8.813	8.613	8.316	6.558	4.915	7.6450	16.98
100)		decane	7.295	7.088	7.116	7.220	7.165	7.719	6.808	5.763	7.0215	8.10
101)	C	Benzyl Chloride	3.056	3.284	3.810	4.988	5.450	6.080	5.698	4.884	4.6564	24.44
102)		1,3-dichlorobenzene	4.505	4.989	5.296	5.783	5.762	5.750	4.916	4.102	5.1378	12.20
103)	C	1,4-dichlorobenzene	4.789	5.095	5.017	5.837	5.745	5.633	4.994	3.914	5.1282	12.25
104)		sec-butylbenzene	1.191	1.148	1.131	1.156	1.147	1.220	1.024	0.801	1.1022	12.19
105)		1,2,3-trimethylbenzene	8.075	7.664	7.504	8.096	7.813	7.675	6.088	4.620	7.1920	16.92
106)		p-isopropyltoluene	1.029	0.992	0.984	1.014	0.979	1.026	0.805	0.575	0.9256	17.18
107)		1,2-dichlorobenzene	5.072	4.840	4.963	5.455	5.465	5.441	4.876	4.067	5.0223	9.31
108)		n-butylbenzene	8.699	8.757	8.686	9.000	8.860	9.584	8.368	7.048	8.6253	8.42
109)		indan	7.702	7.616	7.625	8.267	8.236	8.431	7.250	5.776	7.6130	11.10
110)		indene	4.869	4.829	4.963	5.557	5.621	5.904	5.336	4.519	5.1998	9.15
111)	C	1,2-dibromo-3-chloropropane	1.630	1.707	1.808	1.932	2.012	2.261	2.022	1.711	1.8853	11.19
112)		undecane	7.505	7.794	7.900	8.193	8.081	8.614	7.368	6.108	7.6954	9.77
113)		1,2,4,5-tetramethylbenzene	0.843	0.824	0.822	0.911	0.907	0.952	0.925	0.908	0.8864	5.58
114)		dodecane	5.809	6.936	7.445	8.161	8.260	8.371	7.294	6.135	7.3013	13.24
115)	C	1,2,4-trichlorobenzene	3.275	3.644	3.860	4.716	4.882	4.995	4.484	3.596	4.1817	15.88
116)		naphthalene	0.894	0.960	1.009	0.969	0.994	1.174	1.038	0.865	0.9880	9.58
117)		1,2,3-trichlorobenzene	3.455	3.668	3.804	3.711	3.796	4.519	4.062	3.409	3.8031	9.34
118)		benzothiophene	1.778	2.052	2.126	2.053	2.156	2.390	1.832	1.268	1.9568	17.24
119)	C	hexachlorobutadiene	4.047	4.117	4.066	4.617	4.580	4.306	3.516	2.703	3.9940	15.68
120)		2-methylnaphthalene			3.619	4.012	4.656	5.301	4.716	3.864	4.3614	14.56
121)		1-methylnaphthalene			5.126	5.573	6.174	6.034	5.162	4.005	5.3456	14.71

(#) = Out of Range

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328235.D
Acq On : 30 Dec 2023 1:22 PM
Operator : AIRPIANO3:JMB
Sample : WG1874984-1,3,250,250
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024



Spectrum Information: Average of 17.325 to 17.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.4	41833	PASS
75	95	30	66	34.7	117583	PASS
95	95	100	100	100.0	338651	PASS
96	95	5	9	6.6	22208	PASS
173	174	0.00	2	0.8	1799	PASS
174	95	50	120	66.7	226029	PASS
175	174	4	9	7.3	16449	PASS
176	174	93	101	97.0	219272	PASS
177	176	5	9	6.5	14268	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328239.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:02 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	275394	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 92.92%			
43) 1,4-difluorobenzene	11.227	114	888191	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 94.26%			
67) chlorobenzene-D5	15.950	54	130353	10.000	ppbV	0.00
Standard Area = 136951			Recovery = 95.18%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	417719	10.387	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.87%			
69) toluene-D8	14.075	98	1219113	10.023	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.23%			
90) bromofluorobenzene	17.325	95	791100	10.045	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.45%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.810	51	6290	0.272	ppbV	99
3) propylene	3.840	41	4197M6	0.207	ppbV	
4) propane	3.864	29	4984	0.259	ppbV	98
5) dichlorodifluoromethane	3.912	85	7770	0.233	ppbV	100
6) chloromethane	4.074	50	3616	0.223	ppbV	98
7) Freon-114	4.176	85	9303	0.223	ppbV	99
8) methanol	4.242	31	11082	1.420	ppbV	89
9) vinyl chloride	4.296	62	5140	0.228	ppbV	98
10) 1,3-butadiene	4.440	54	3394	0.217	ppbV	95
11) butane	4.494	43	8555	0.248	ppbV	95
12) acetaldehyde	4.200	29	10868	1.286	ppbV	97
13) bromomethane	4.722	94	3531	0.217	ppbV	98
14) chloroethane	4.908	64	2601	0.226	ppbV	96
15) ethanol	5.046	31	16806	1.459	ppbV	98
16) dichlorofluoromethane	5.016	67	9391	0.238	ppbV	99
17) vinyl bromide	5.283	106	4160	0.227	ppbV	99
18) acrolein	5.427	56	2263	0.225	ppbV #	89
19) acetone	5.570	43	35856M6	1.210	ppbV	
20) acetonitrile	5.277	41	5167	0.252	ppbV	93
21) trichlorofluoromethane	5.743	101	7909	0.226	ppbV	100
22) isopropyl alcohol	5.853	45	19473	0.534	ppbV	99
23) acrylonitrile	6.073	53	3644	0.219	ppbV	97
24) pentane	6.137	43	10298	0.239	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328239.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:02 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.177	31	7875	0.193	ppbV		97
26) 1,1-dichloroethene	6.442	61	7349	0.220	ppbV		97
27) tertiary butyl alcohol	6.526	59	9375	0.211	ppbV		96
28) methylene chloride	6.580	49	5215	0.238	ppbV		98
29) 3-chloropropene	6.712	41	6895	0.213	ppbV		99
30) carbon disulfide	6.886	76	11985	0.191	ppbV	#	86
31) Freon 113	6.886	101	8739	0.225	ppbV		100
32) trans-1,2-dichloroethene	7.633	61	7351	0.216	ppbV		99
33) 1,1-dichloroethane	7.858	63	9451	0.216	ppbV		97
34) MTBE	7.950	73	11862	0.212	ppbV	#	92
35) vinyl acetate	8.058	43	9660	0.212	ppbV		100
36) 2-butanone	8.333	43	9470	0.193	ppbV		99
37) cis-1,2-dichloroethene	8.808	61	6897	0.214	ppbV		97
38) Ethyl Acetate	9.108	61	1667	0.189	ppbV	#	21
39) chloroform	9.150	83	7480	0.215	ppbV		99
40) Tetrahydrofuran	9.633	42	6435	0.218	ppbV		98
41) 2,2-dichloropropane	9.175	77	6119	0.221	ppbV		95
42) 1,2-dichloroethane	9.983	62	6523	0.256	ppbV		98
44) hexane	9.067	57	8957	0.215	ppbV	#	70
45) diisopropyl ether	9.075	87	4529	0.219	ppbV		97
46) tert-butyl ethyl ether	9.692	59	16507	0.220	ppbV		98
48) 1,1,1-trichloroethane	10.275	97	7018	0.213	ppbV		98
49) 1,1-dichloropropene	10.640	75	6637	0.222	ppbV		96
50) benzene	10.807	78	16286	0.220	ppbV		98
51) thiophene	10.953	84	12002	0.238	ppbV		96
52) carbon tetrachloride	10.973	117	5278	0.193	ppbV		98
53) cyclohexane	11.120	56	9283	0.217	ppbV		99
54) tert-amyl methyl ether	11.513	73	13777	0.211	ppbV		99
55) dibromomethane	11.720	93	4470	0.221	ppbV		95
56) 1,2-dichloropropane	11.753	63	6374	0.206	ppbV		98
57) bromodichloromethane	11.980	83	6363	0.183	ppbV		96
58) 1,4-dioxane	12.060	88	3128	0.185	ppbV	#	67
59) trichloroethene	12.033	130	6339	0.211	ppbV		98
60) 2,2,4-trimethylpentane	12.080	57	31910	0.245	ppbV		100
61) methyl methacrylate	12.287	41	5253	0.173	ppbV		97
62) heptane	12.393	43	9970	0.205	ppbV		96
63) cis-1,3-dichloropropene	13.050	75	6730	0.174	ppbV		98
64) 4-methyl-2-pentanone	13.108	43	10942	0.188	ppbV		98
65) trans-1,3-dichloropropene	13.683	75	4986	0.160	ppbV		98
66) 1,1,2-trichloroethane	13.875	97	5927	0.205	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328239.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:02 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.192	91	19186	0.211	ppbV		100
70)	2-methylthiophene	14.258	97	19011	0.239	ppbV		96
71)	1,3-dichloropropane	14.225	76	8254	0.210	ppbV		96
72)	2-hexanone	14.500	43	8386	0.151	ppbV		99
73)	3-methylthiophene	14.450	97	18507	0.234	ppbV		100
74)	dibromochloromethane	14.642	129	5383	0.158	ppbV		98
75)	1,2-dibromoethane	14.892	107	7645	0.180	ppbV		100
76)	butyl acetate	15.142	73	2057	0.154	ppbV		96
77)	octane	15.217	85	7495	0.224	ppbV		98
78)	tetrachloroethene	15.350	166	7856	0.202	ppbV		92
79)	1,1,1,2-tetrachloroethane	15.975	131	5497	0.203	ppbV		96
80)	chlorobenzene	15.992	112	14052	0.200	ppbV		98
81)	ethylbenzene	16.350	91	23024	0.198	ppbV		98
82)	2-ethylthiophene	16.383	97	19801	0.226	ppbV		100
83)	m+p-xylene	16.508	91	37663M6	0.401	ppbV		
84)	bromoform	16.575	173	4172	0.130	ppbV		97
85)	styrene	16.842	104	13502	0.169	ppbV		97
86)	1,1,2,2-tetrachloroethane	16.933	83	12064	0.189	ppbV		98
87)	o-xylene	16.933	91	19240	0.204	ppbV		95
88)	1,2,3-trichloropropane	17.050	75	9422	0.201	ppbV		97
89)	nonane	17.125	43	14724	0.207	ppbV		100
91)	isopropylbenzene	17.442	105	23934	0.209	ppbV		100
92)	bromobenzene	17.525	77	12963	0.208	ppbV		99
93)	2-chlorotoluene	17.850	126	6708	0.208	ppbV		99
94)	n-propylbenzene	17.883	120	7155	0.191	ppbV		93
95)	4-chlorotoluene	17.917	126	6058	0.194	ppbV		100
96)	4-ethyl toluene	18.000	105	22743	0.180	ppbV		98
97)	1,3,5-trimethylbenzene	18.067	105	22019	0.200	ppbV		99
98)	tert-butylbenzene	18.408	119	22337	0.211	ppbV		99
99)	1,2,4-trimethylbenzene	18.408	105	21350	0.190	ppbV	#	90
100)	decane	18.483	57	19018	0.204	ppbV		97
101)	Benzyl Chloride	18.533	91	7967	0.112	ppbV		99
102)	1,3-dichlorobenzene	18.542	146	11744	0.156	ppbV		98
103)	1,4-dichlorobenzene	18.600	146	12486	0.167	ppbV		97
104)	sec-butylbenzene	18.625	105	31045	0.208	ppbV		99
105)	1,2,3-trimethylbenzene	18.758	105	21052	0.207	ppbV		99
106)	p-isopropyltoluene	18.758	119	26838	0.210	ppbV		98
107)	1,2-dichlorobenzene	18.883	146	13224	0.186	ppbV		97
108)	n-butylbenzene	19.100	91	22680	0.196	ppbV		97
109)	indan	18.933	117	20080	0.187	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328239.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:02 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

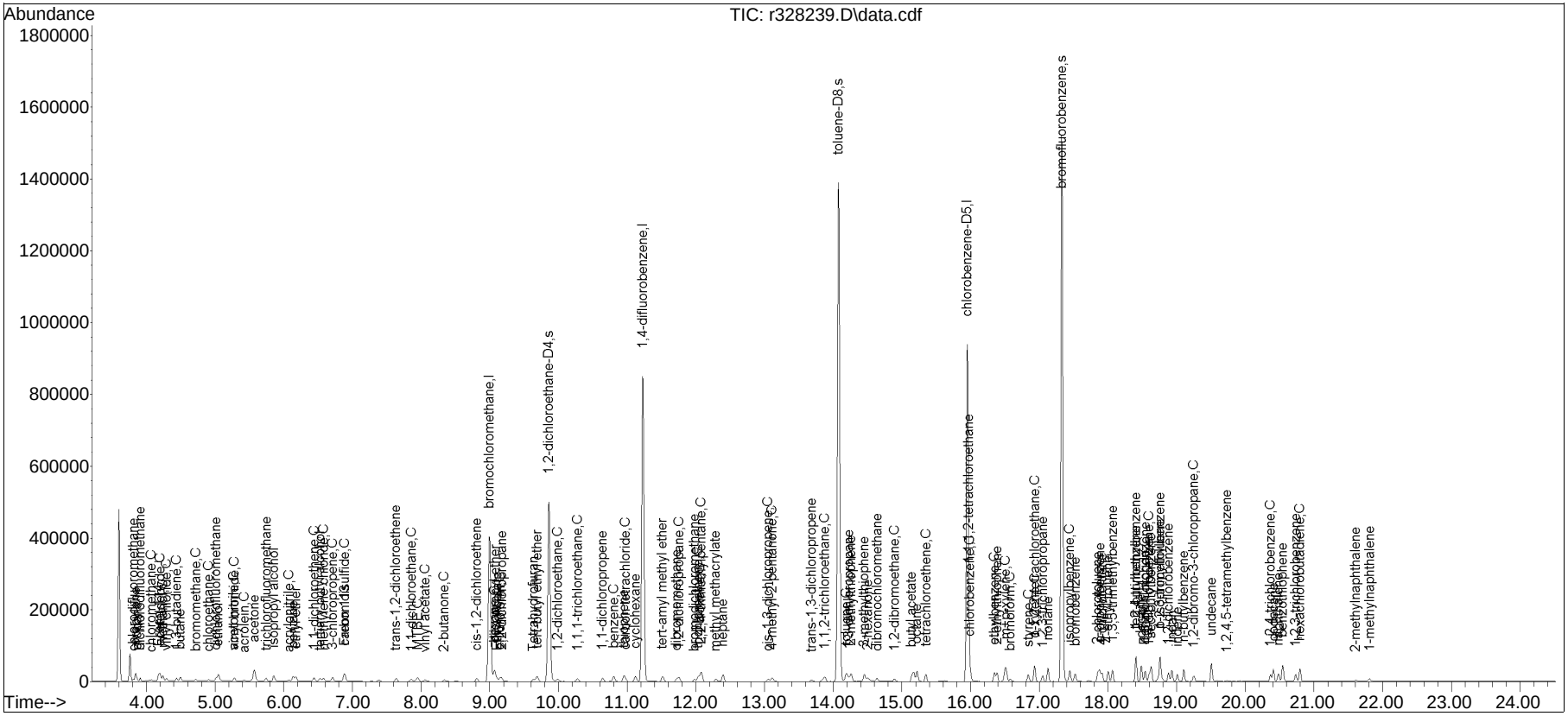
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.008	115	12693	0.173	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.250	75	4249	0.162	ppbV	#	88
112) undecane	19.508	57	19565	0.186	ppbV		96
113) 1,2,4,5-tetramethylben...	19.733	119	2198	0.186	ppbV		97
114) dodecane	20.408	57	15144	0.141	ppbV		94
115) 1,2,4-trichlorobenzene	20.367	180	8539	0.134	ppbV		99
116) naphthalene	20.483	128	23317	0.180	ppbV		99
117) 1,2,3-trichlorobenzene	20.733	180	9007	0.182	ppbV		98
118) benzothiophene	20.542	134	46348	0.165	ppbV		99
119) hexachlorobutadiene	20.792	225	10551	0.177	ppbV		98
120) 2-methylnaphthalene	21.608	142	4123	0.068	ppbV		95
121) 1-methylnaphthalene	21.808	142	7307	0.091	ppbV		99

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328239.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:02 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

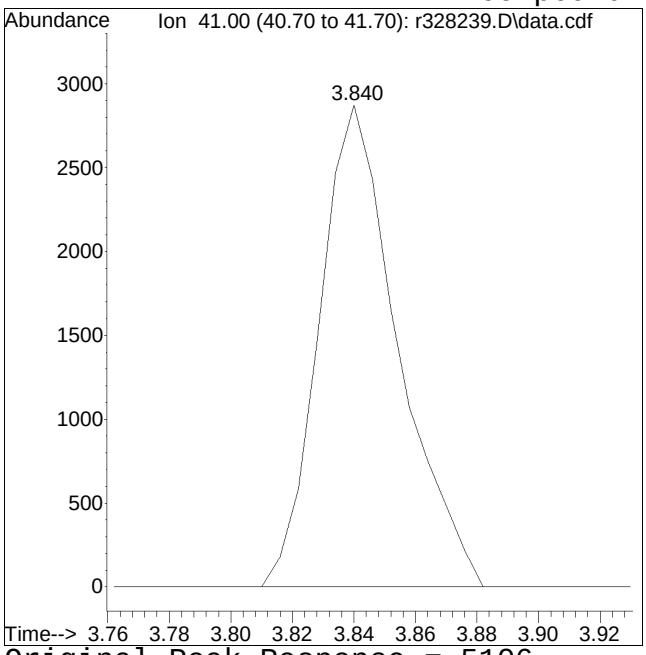


Manual Integration Report

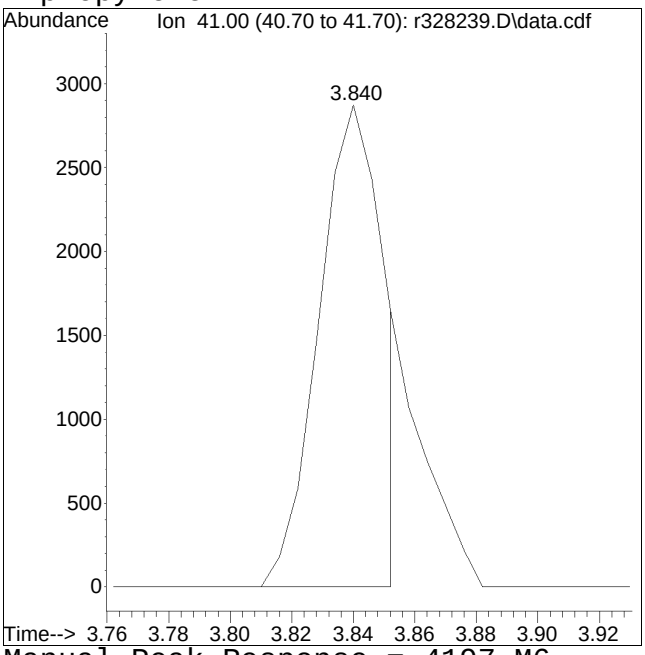
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328239.D
Date Inj'd : 12/30/2020 0:3: 3
Sample : ITO15-SIMSTD0.2

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 5106



Manual Peak Response = 4197 M6

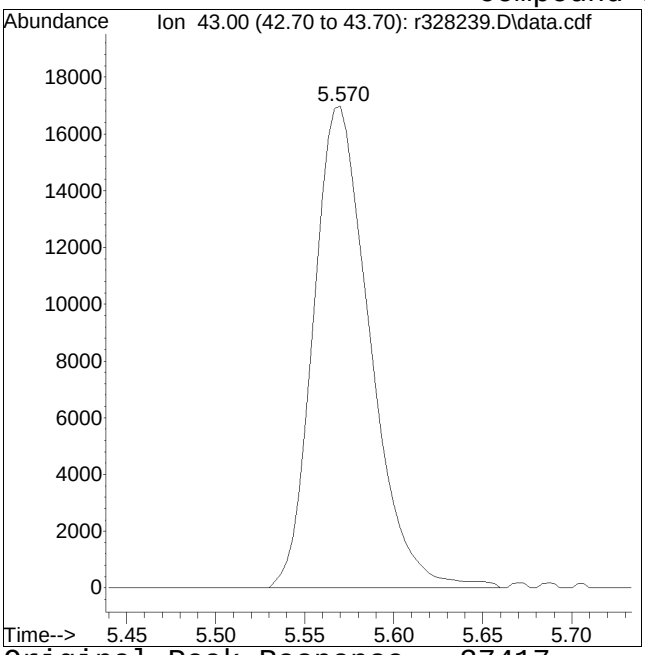
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

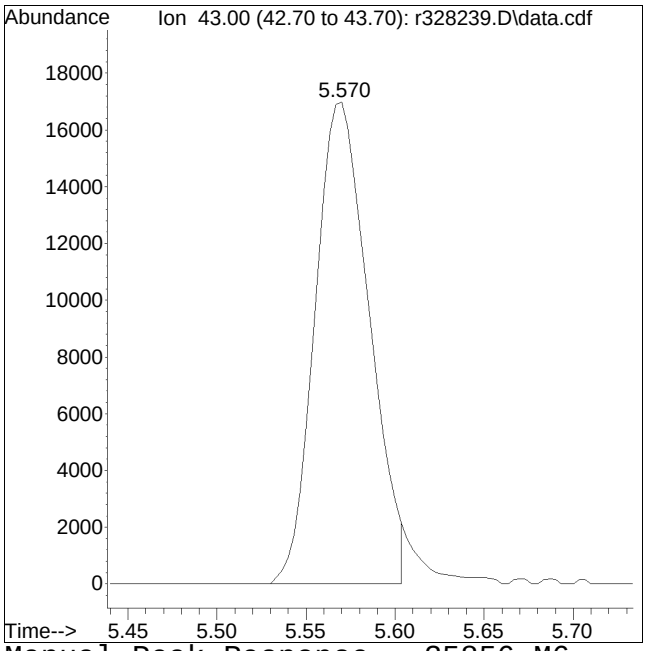
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328239.D
Date Inj'd : 12/30/2020 0:3: 3
Sample : ITO15-SIMSTD0.2

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #19: acetone



Original Peak Response = 37417



Manual Peak Response = 35856 M6

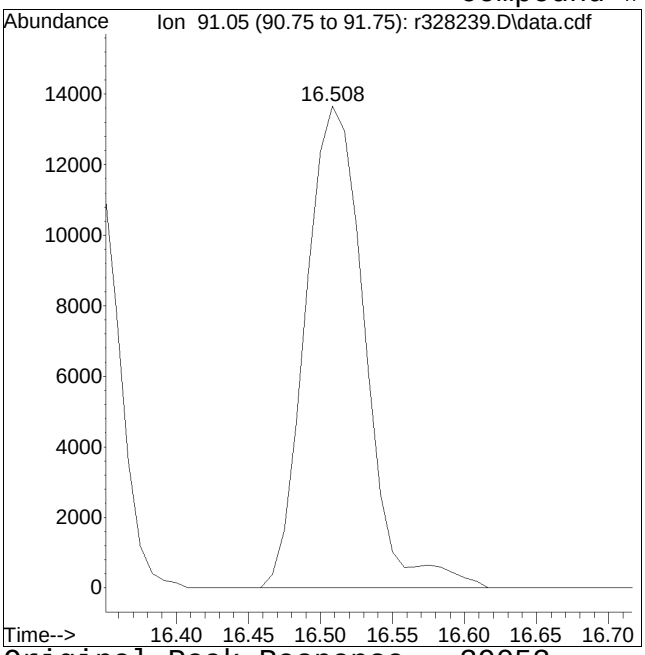
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

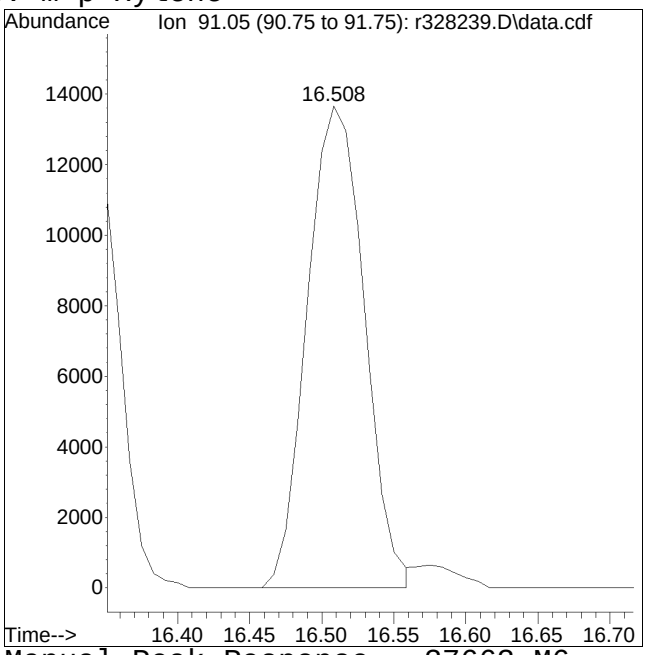
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328239.D
Date Inj'd : 12/30/2020 0:3: 3
Sample : ITO15-SIMSTD0.2

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #83: m+p-xylene



Original Peak Response = 39053



Manual Peak Response = 37663 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328240.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:11 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	275590	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 92.99%			
43) 1,4-difluorobenzene	11.227	114	879464	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 93.34%			
67) chlorobenzene-D5	15.950	54	130937	10.000	ppbV	0.00
Standard Area = 136951			Recovery = 95.61%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	417954	10.496	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.96%			
69) toluene-D8	14.075	98	1226972	10.043	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.43%			
90) bromofluorobenzene	17.325	95	793534	10.031	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.31%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.810	51	13725	0.593	ppbV	98
3) propylene	3.840	41	10508M6	0.519	ppbV	
4) propane	3.864	29	11174	0.580	ppbV	99
5) dichlorodifluoromethane	3.912	85	18223	0.546	ppbV	99
6) chloromethane	4.074	50	8468	0.522	ppbV	99
7) Freon-114	4.176	85	22287	0.534	ppbV	99
8) methanol	4.236	31	24582	3.147	ppbV	93
9) vinyl chloride	4.296	62	11983	0.531	ppbV	99
10) 1,3-butadiene	4.440	54	8024	0.512	ppbV	97
11) butane	4.494	43	20001	0.580	ppbV	98
12) acetaldehyde	4.200	29	24847	2.939	ppbV	99
13) bromomethane	4.716	94	8421	0.518	ppbV	100
14) chloroethane	4.908	64	6087	0.529	ppbV	98
15) ethanol	5.046	31	37603	3.262	ppbV	97
16) dichlorofluoromethane	5.016	67	21963	0.556	ppbV	100
17) vinyl bromide	5.283	106	9785	0.533	ppbV	96
18) acrolein	5.417	56	5392	0.535	ppbV	95
19) acetone	5.560	43	81554M6	2.749	ppbV	
20) acetonitrile	5.273	41	11369	0.553	ppbV	93
21) trichlorofluoromethane	5.740	101	18482	0.529	ppbV	96
22) isopropyl alcohol	5.847	45	45346	1.242	ppbV	100
23) acrylonitrile	6.070	53	8739	0.525	ppbV	99
24) pentane	6.137	43	24253	0.563	ppbV	98

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328240.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:11 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.173	31	18187	0.445	ppbV		97
26) 1,1-dichloroethene	6.436	61	17495	0.523	ppbV		98
27) tertiary butyl alcohol	6.514	59	22444	0.506	ppbV		97
28) methylene chloride	6.580	49	11811	0.539	ppbV		98
29) 3-chloropropene	6.712	41	15895	0.492	ppbV		99
30) carbon disulfide	6.886	76	28828	0.459	ppbV	#	93
31) Freon 113	6.880	101	20472	0.527	ppbV		98
32) trans-1,2-dichloroethene	7.633	61	17675	0.518	ppbV		99
33) 1,1-dichloroethane	7.858	63	22541	0.514	ppbV		99
34) MTBE	7.942	73	28178	0.503	ppbV	#	90
35) vinyl acetate	8.050	43	23540	0.517	ppbV		99
36) 2-butanone	8.325	43	22680	0.461	ppbV		100
37) cis-1,2-dichloroethene	8.808	61	16475	0.510	ppbV		99
38) Ethyl Acetate	9.100	61	3979	0.451	ppbV	#	34
39) chloroform	9.150	83	17711	0.508	ppbV		98
40) Tetrahydrofuran	9.617	42	14677M6	0.497	ppbV		
41) 2,2-dichloropropane	9.167	77	14426	0.522	ppbV		94
42) 1,2-dichloroethane	9.983	62	14147	0.556	ppbV		99
44) hexane	9.058	57	21542	0.522	ppbV	#	66
45) diisopropyl ether	9.067	87	10953	0.535	ppbV		93
46) tert-butyl ethyl ether	9.683	59	39382	0.529	ppbV		99
48) 1,1,1-trichloroethane	10.275	97	16382	0.503	ppbV		97
49) 1,1-dichloropropene	10.640	75	15502	0.523	ppbV		97
50) benzene	10.800	78	37157	0.508	ppbV		100
51) thiophene	10.947	84	28642	0.573	ppbV		99
52) carbon tetrachloride	10.973	117	12648	0.467	ppbV		98
53) cyclohexane	11.120	56	22162	0.524	ppbV		98
54) tert-amyl methyl ether	11.507	73	33130	0.513	ppbV		98
55) dibromomethane	11.720	93	10431	0.521	ppbV		98
56) 1,2-dichloropropane	11.753	63	15098	0.492	ppbV		98
57) bromodichloromethane	11.980	83	16098	0.467	ppbV		99
58) 1,4-dioxane	12.047	88	8053	0.481	ppbV		85
59) trichloroethene	12.027	130	14688	0.493	ppbV		97
60) 2,2,4-trimethylpentane	12.073	57	75255	0.584	ppbV		100
61) methyl methacrylate	12.280	41	13136	0.437	ppbV		99
62) heptane	12.393	43	24044	0.500	ppbV		98
63) cis-1,3-dichloropropene	13.050	75	16630	0.434	ppbV		99
64) 4-methyl-2-pentanone	13.100	43	26862	0.465	ppbV		100
65) trans-1,3-dichloropropene	13.675	75	12796	0.415	ppbV		99
66) 1,1,2-trichloroethane	13.875	97	14198	0.495	ppbV		96

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328240.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:11 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.183	91	44922	0.491	ppbV	99
70) 2-methylthiophene	14.258	97	45468	0.569	ppbV	99
71) 1,3-dichloropropane	14.217	76	20049	0.507	ppbV	99
72) 2-hexanone	14.492	43	22625	0.405	ppbV	99
73) 3-methylthiophene	14.450	97	44869	0.565	ppbV	99
74) dibromochloromethane	14.633	129	13480	0.395	ppbV	99
75) 1,2-dibromoethane	14.883	107	18932	0.445	ppbV	100
76) butyl acetate	15.133	73	5327	0.397	ppbV	94
77) octane	15.217	85	17502	0.520	ppbV	99
78) tetrachloroethene	15.342	166	18784	0.480	ppbV	99
79) 1,1,1,2-tetrachloroethane	15.975	131	13341	0.490	ppbV	99
80) chlorobenzene	15.992	112	33521	0.475	ppbV	99
81) ethylbenzene	16.342	91	56006	0.481	ppbV	97
82) 2-ethylthiophene	16.383	97	48511	0.550	ppbV	98
83) m+p-xylene	16.508	91	91778	0.974	ppbV	95
84) bromoform	16.575	173	10610	0.329	ppbV	97
85) styrene	16.833	104	34265	0.428	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.925	83	29250	0.456	ppbV	100
87) o-xylene	16.925	91	46049	0.486	ppbV	95
88) 1,2,3-trichloropropane	17.042	75	22796	0.485	ppbV	97
89) nonane	17.125	43	35298	0.493	ppbV	98
91) isopropylbenzene	17.442	105	58126	0.504	ppbV	99
92) bromobenzene	17.517	77	31272	0.500	ppbV	96
93) 2-chlorotoluene	17.850	126	15809	0.488	ppbV	89
94) n-propylbenzene	17.875	120	18340	0.489	ppbV	96
95) 4-chlorotoluene	17.908	126	15867	0.505	ppbV	95
96) 4-ethyl toluene	18.000	105	58110	0.458	ppbV	98
97) 1,3,5-trimethylbenzene	18.058	105	51853	0.468	ppbV	98
98) tert-butylbenzene	18.400	119	54997	0.516	ppbV	100
99) 1,2,4-trimethylbenzene	18.408	105	51285	0.455	ppbV	94
100) decane	18.483	57	46401	0.495	ppbV	98
101) Benzyl Chloride	18.525	91	21502	0.301	ppbV	97
102) 1,3-dichlorobenzene	18.542	146	32661	0.433	ppbV	99
103) 1,4-dichlorobenzene	18.592	146	33359	0.443	ppbV	96
104) sec-butylbenzene	18.625	105	75186	0.501	ppbV	99
105) 1,2,3-trimethylbenzene	18.758	105	50175	0.490	ppbV	95
106) p-isopropyltoluene	18.758	119	64949	0.507	ppbV	99
107) 1,2-dichlorobenzene	18.875	146	31685	0.443	ppbV	97
108) n-butylbenzene	19.100	91	57330	0.494	ppbV	98
109) indan	18.925	117	49858	0.462	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328240.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:11 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

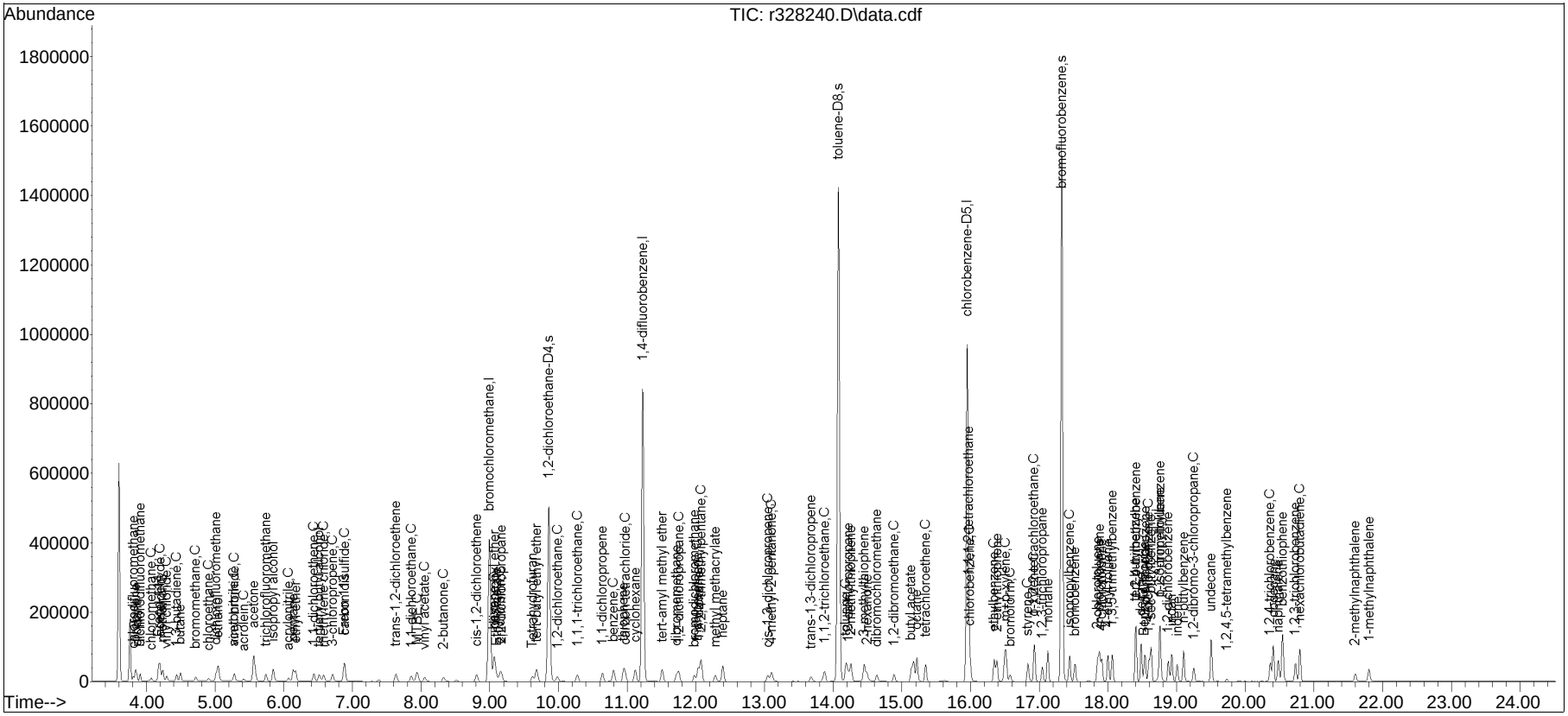
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.008	115	31617	0.430	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.250	75	11178	0.424	ppbV #	90
112) undecane	19.500	57	51027	0.482	ppbV	95
113) 1,2,4,5-tetramethylben...	19.733	119	5395	0.454	ppbV	98
114) dodecane	20.408	57	45409	0.420	ppbV	96
115) 1,2,4-trichlorobenzene	20.358	180	23855	0.373	ppbV	98
116) naphthalene	20.483	128	62880	0.483	ppbV	99
117) 1,2,3-trichlorobenzene	20.725	180	24016	0.483	ppbV	98
118) benzothiophene	20.542	134	134353	0.476	ppbV	99
119) hexachlorobutadiene	20.792	225	26951	0.449	ppbV	99
120) 2-methylnaphthalene	21.600	142	19529	0.320	ppbV	99
121) 1-methylnaphthalene	21.800	142	27778	0.344	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328240.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:11 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

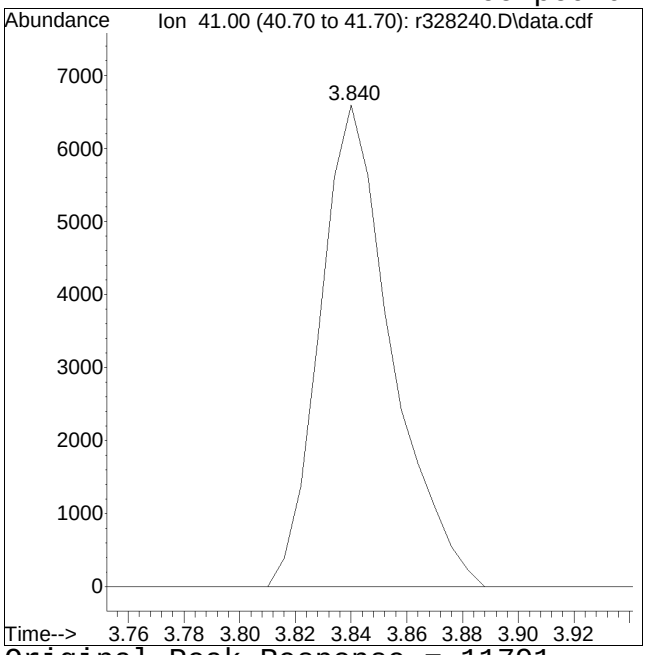


Manual Integration Report

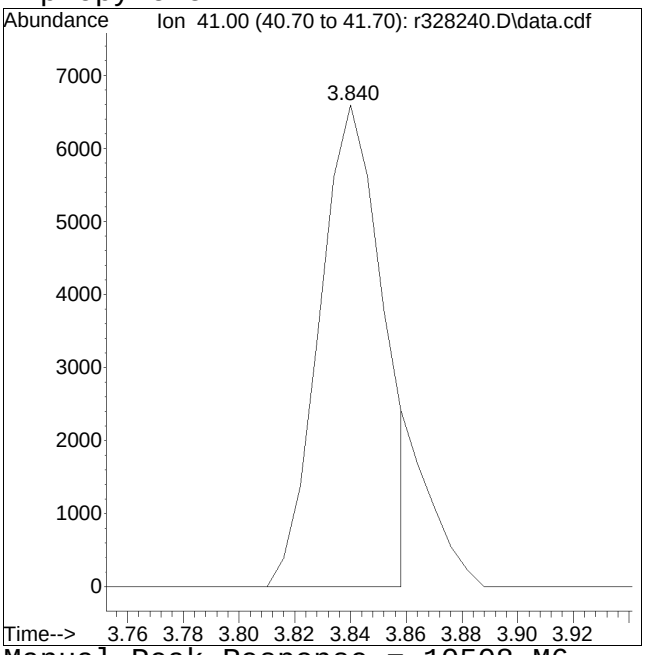
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328240.D
Date Inj'd : 12/30/2020 0:4: 3
Sample : ITO15-SIMSTD0.5

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 11791



Manual Peak Response = 10508 M6

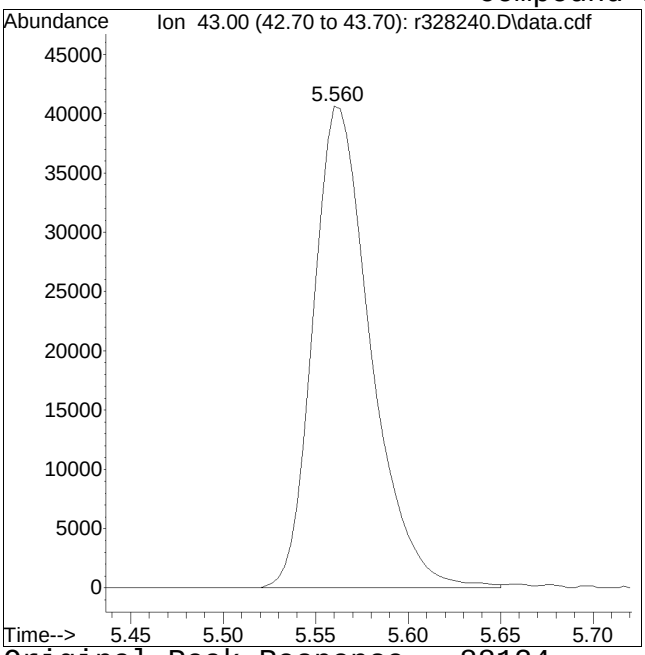
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

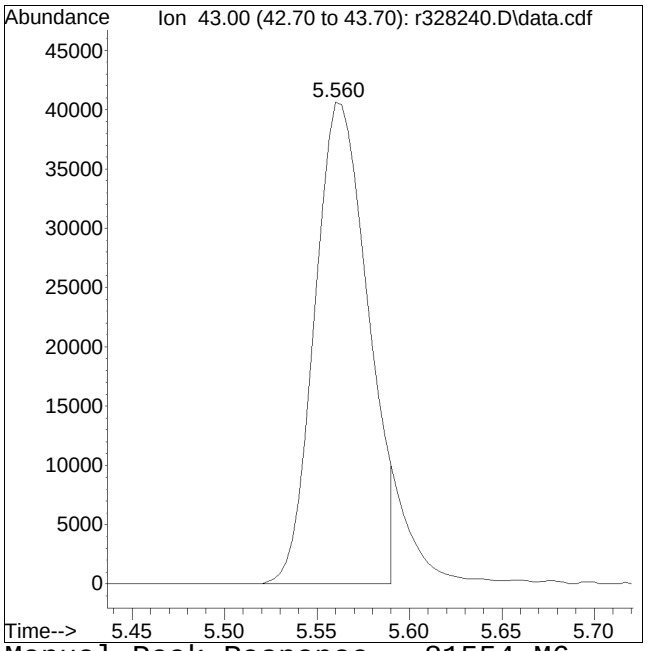
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328240.D
Date Inj'd : 12/30/2020 0:4: 3
Sample : ITO15-SIMSTD0.5

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #19: acetone



Original Peak Response = 88124



Manual Peak Response = 81554 M6

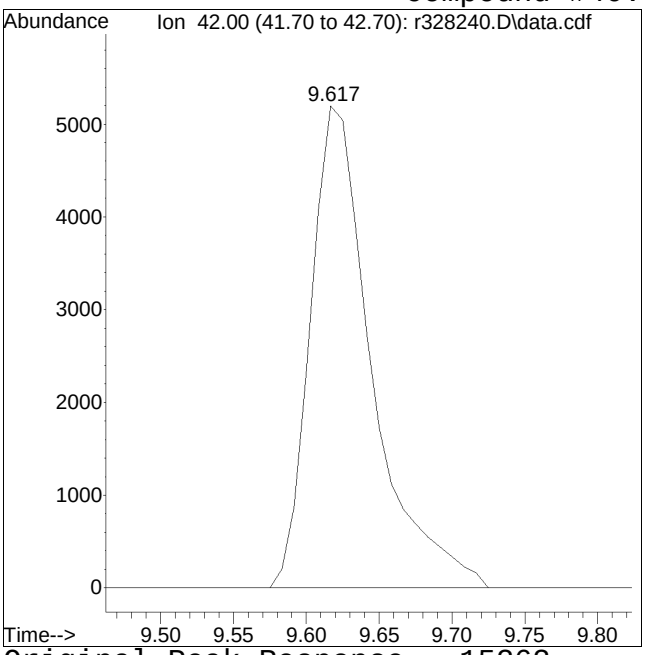
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

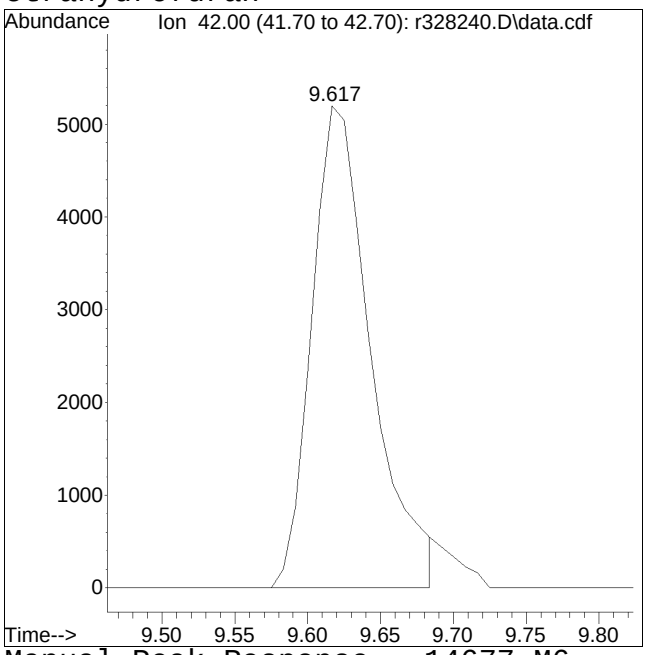
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328240.D
Date Inj'd : 12/30/2020 0:4: 3
Sample : ITO15-SIMSTD0.5

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #40: Tetrahydrofuran



Original Peak Response = 15262



Manual Peak Response = 14677 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328241.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:20 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	280349	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 94.59%			
43) 1,4-difluorobenzene	11.227	114	896988	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 95.20%			
67) chlorobenzene-D5	15.950	54	131875	10.000	ppbV	0.00
Standard Area = 136951			Recovery = 96.29%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	416605	10.258	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.58%			
69) toluene-D8	14.075	98	1227061	9.972	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.72%			
90) bromofluorobenzene	17.325	95	786213	9.868	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.68%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.810	51	27042	1.149	ppbV	99
3) propylene	3.840	41	18267M6	0.887	ppbV	
4) propane	3.864	29	21262	1.085	ppbV	97
5) dichlorodifluoromethane	3.912	85	35954	1.058	ppbV	100
6) chloromethane	4.074	50	16696	1.013	ppbV	98
7) Freon-114	4.176	85	43855	1.032	ppbV	99
8) methanol	4.236	31	46418	5.841	ppbV	96
9) vinyl chloride	4.296	62	23652	1.031	ppbV	99
10) 1,3-butadiene	4.440	54	16055	1.008	ppbV	99
11) butane	4.494	43	38602	1.101	ppbV	99
12) acetaldehyde	4.200	29	48029	5.584	ppbV	96
13) bromomethane	4.716	94	16478	0.996	ppbV	100
14) chloroethane	4.908	64	11813	1.010	ppbV	99
15) ethanol	5.040	31	76098	6.490	ppbV	97
16) dichlorofluoromethane	5.016	67	42209	1.051	ppbV	99
17) vinyl bromide	5.283	106	18918	1.014	ppbV	99
18) acrolein	5.413	56	10380	1.013	ppbV	94
19) acetone	5.557	43	157878M6	5.232	ppbV	
20) acetonitrile	5.270	41	22144	1.059	ppbV	95
21) trichlorofluoromethane	5.740	101	36253	1.020	ppbV	100
22) isopropyl alcohol	5.840	45	87917	2.367	ppbV	99
23) acrylonitrile	6.067	53	17420	1.029	ppbV	98
24) pentane	6.137	43	47124	1.076	ppbV	99

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328241.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:20 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.167	31	36493	0.878	ppbV		100
26) 1,1-dichloroethene	6.436	61	33849	0.995	ppbV		100
27) tertiary butyl alcohol	6.508	59	44049	0.976	ppbV		97
28) methylene chloride	6.580	49	22664	1.017	ppbV		100
29) 3-chloropropene	6.712	41	31423	0.955	ppbV		99
30) carbon disulfide	6.880	76	58535	0.916	ppbV		97
31) Freon 113	6.880	101	38747	0.981	ppbV		99
32) trans-1,2-dichloroethene	7.633	61	34304	0.989	ppbV		99
33) 1,1-dichloroethane	7.858	63	43594	0.978	ppbV		99
34) MTBE	7.933	73	55256	0.969	ppbV	#	92
35) vinyl acetate	8.050	43	47540	1.026	ppbV		99
36) 2-butanone	8.317	43	45643	0.912	ppbV		99
37) cis-1,2-dichloroethene	8.808	61	31838	0.969	ppbV		99
38) Ethyl Acetate	9.092	61	8138	0.907	ppbV	#	48
39) chloroform	9.150	83	35043	0.988	ppbV		99
40) Tetrahydrofuran	9.608	42	27731M6	0.924	ppbV		
41) 2,2-dichloropropane	9.167	77	28091	0.999	ppbV		95
42) 1,2-dichloroethane	9.983	62	26653	1.029	ppbV		99
44) hexane	9.058	57	41609	0.989	ppbV	#	76
45) diisopropyl ether	9.058	87	21498	1.030	ppbV		91
46) tert-butyl ethyl ether	9.675	59	77441	1.020	ppbV		99
48) 1,1,1-trichloroethane	10.275	97	32599	0.981	ppbV		98
49) 1,1-dichloropropene	10.640	75	31020	1.026	ppbV		98
50) benzene	10.800	78	72408	0.970	ppbV		99
51) thiophene	10.947	84	56346	1.105	ppbV		99
52) carbon tetrachloride	10.973	117	25949	0.940	ppbV		100
53) cyclohexane	11.113	56	42639	0.988	ppbV		99
54) tert-amyl methyl ether	11.500	73	65355	0.993	ppbV		99
55) dibromomethane	11.713	93	20887	1.022	ppbV		99
56) 1,2-dichloropropane	11.747	63	29629	0.947	ppbV		98
57) bromodichloromethane	11.973	83	32158	0.914	ppbV		100
58) 1,4-dioxane	12.033	88	15997	0.936	ppbV		100
59) trichloroethene	12.027	130	29457	0.969	ppbV		99
60) 2,2,4-trimethylpentane	12.073	57	147245	1.121	ppbV		99
61) methyl methacrylate	12.280	41	26814	0.876	ppbV		99
62) heptane	12.393	43	47486	0.968	ppbV		100
63) cis-1,3-dichloropropene	13.042	75	34218	0.875	ppbV		99
64) 4-methyl-2-pentanone	13.092	43	53978	0.917	ppbV		99
65) trans-1,3-dichloropropene	13.675	75	26822	0.852	ppbV		97
66) 1,1,2-trichloroethane	13.867	97	27411	0.937	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328241.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:20 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.183	91	88754	0.963	ppbV	100
70)	2-methylthiophene	14.258	97	88695	1.102	ppbV	100
71)	1,3-dichloropropane	14.217	76	39559	0.993	ppbV	97
72)	2-hexanone	14.483	43	45925	0.816	ppbV	100
73)	3-methylthiophene	14.450	97	87292	1.092	ppbV	99
74)	dibromochloromethane	14.633	129	28247	0.822	ppbV	99
75)	1,2-dibromoethane	14.883	107	38020	0.887	ppbV	100
76)	butyl acetate	15.133	73	11786	0.873	ppbV	96
77)	octane	15.217	85	34675	1.023	ppbV	98
78)	tetrachloroethene	15.342	166	36602	0.929	ppbV	99
79)	1,1,1,2-tetrachloroethane	15.975	131	26804	0.977	ppbV	99
80)	chlorobenzene	15.992	112	65413	0.920	ppbV	98
81)	ethylbenzene	16.342	91	110211	0.939	ppbV	97
82)	2-ethylthiophene	16.375	97	96352	1.085	ppbV	99
83)	m+p-xylene	16.500	91	179849	1.895	ppbV	96
84)	bromoform	16.575	173	23146	0.713	ppbV	98
85)	styrene	16.833	104	68717	0.852	ppbV	97
86)	1,1,2,2-tetrachloroethane	16.925	83	58381	0.904	ppbV	99
87)	o-xylene	16.925	91	90378	0.947	ppbV	96
88)	1,2,3-trichloropropane	17.042	75	46291	0.977	ppbV	98
89)	nonane	17.117	43	69728	0.967	ppbV	97
91)	isopropylbenzene	17.442	105	113371	0.977	ppbV	100
92)	bromobenzene	17.517	77	61839	0.982	ppbV	98
93)	2-chlorotoluene	17.842	126	32045	0.983	ppbV	97
94)	n-propylbenzene	17.875	120	36523	0.966	ppbV	95
95)	4-chlorotoluene	17.908	126	31229	0.987	ppbV	100
96)	4-ethyl toluene	17.992	105	116094	0.908	ppbV	99
97)	1,3,5-trimethylbenzene	18.058	105	105198	0.943	ppbV	98
98)	tert-butylbenzene	18.400	119	106901	0.997	ppbV	100
99)	1,2,4-trimethylbenzene	18.400	105	104491	0.920	ppbV	92
100)	decane	18.483	57	93838	0.993	ppbV	97
101)	Benzyl Chloride	18.525	91	50241	0.699	ppbV	98
102)	1,3-dichlorobenzene	18.533	146	69846	0.919	ppbV	99
103)	1,4-dichlorobenzene	18.592	146	66167	0.873	ppbV	99
104)	sec-butylbenzene	18.625	105	149096	0.986	ppbV	100
105)	1,2,3-trimethylbenzene	18.750	105	98964	0.961	ppbV	100
106)	p-isopropyltoluene	18.750	119	129767	1.005	ppbV	100
107)	1,2-dichlorobenzene	18.875	146	65451	0.908	ppbV	99
108)	n-butylbenzene	19.100	91	114546	0.980	ppbV	95
109)	indan	18.925	117	100556	0.926	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328241.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:20 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

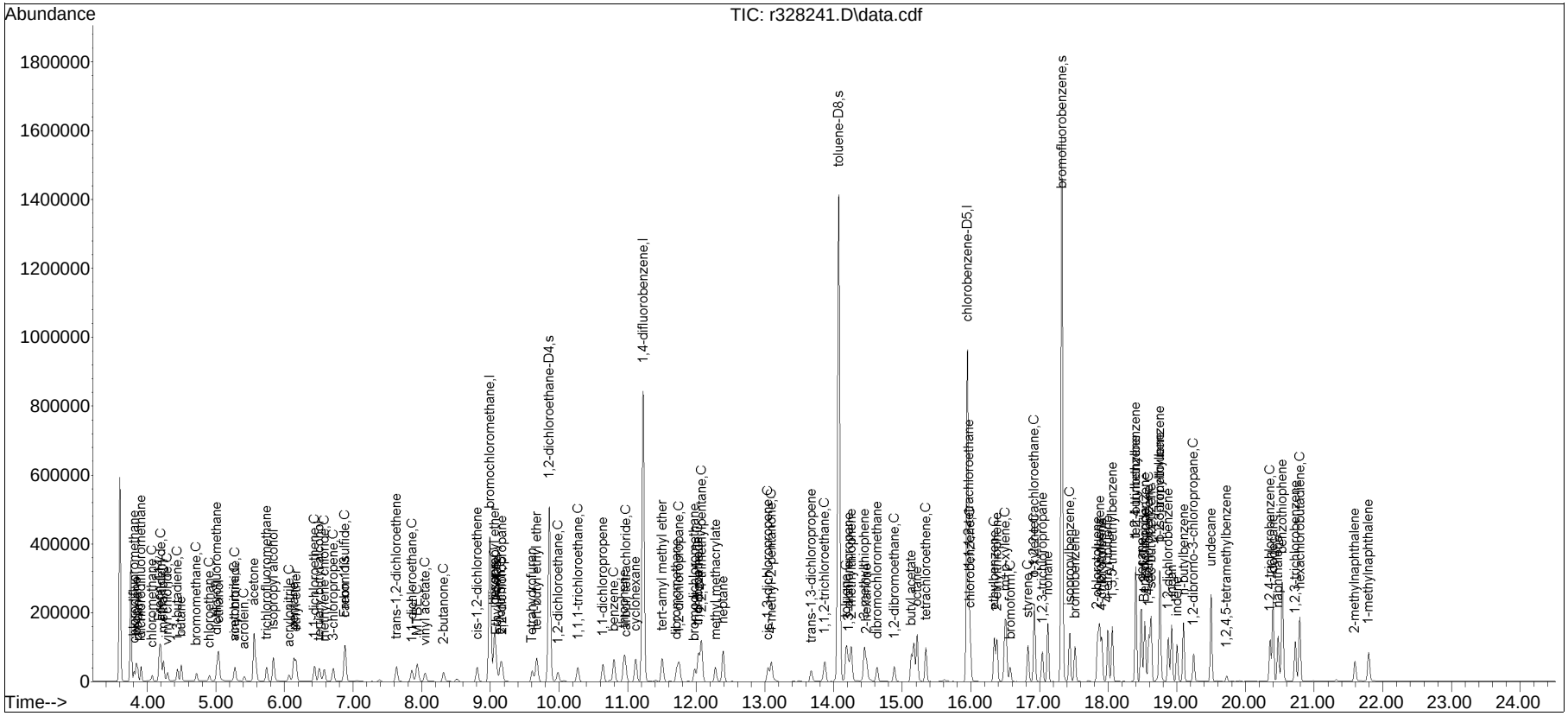
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.000	115	65455	0.883	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.242	75	23847	0.899	ppbV	92
112) undecane	19.500	57	104180	0.978	ppbV	95
113) 1,2,4,5-tetramethylben...	19.725	119	10839	0.906	ppbV	98
114) dodecane	20.400	57	98184	0.901	ppbV	96
115) 1,2,4-trichlorobenzene	20.358	180	50910	0.791	ppbV	100
116) naphthalene	20.475	128	133046	1.014	ppbV	100
117) 1,2,3-trichlorobenzene	20.725	180	50170	1.002	ppbV	100
118) benzothiophene	20.533	134	280334	0.986	ppbV	99
119) hexachlorobutadiene	20.792	225	53626	0.888	ppbV	97
120) 2-methylnaphthalene	21.592	142	47728	0.777	ppbV	99
121) 1-methylnaphthalene	21.792	142	67593	0.830	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328241.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:20 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

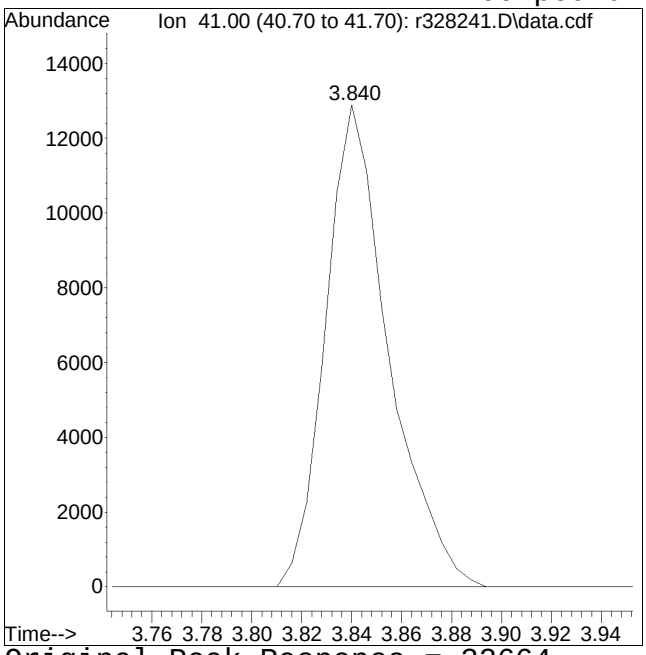


Manual Integration Report

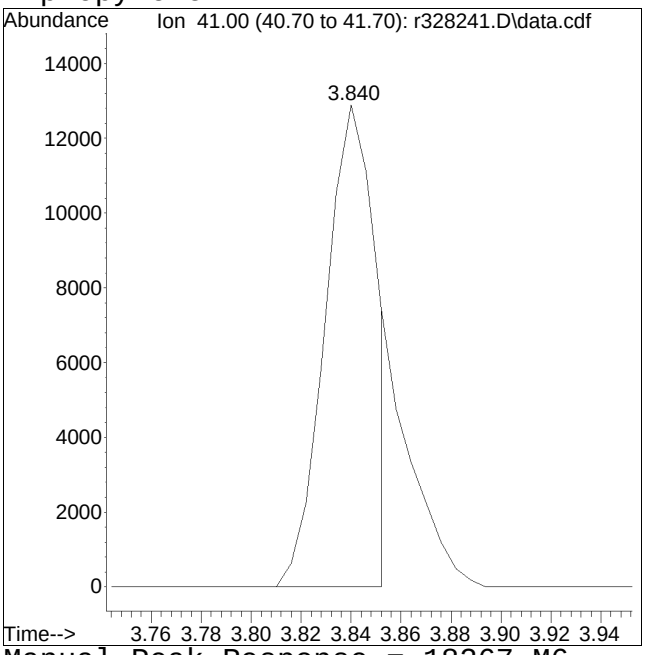
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328241.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD1.0

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 22664



Manual Peak Response = 18267 M6

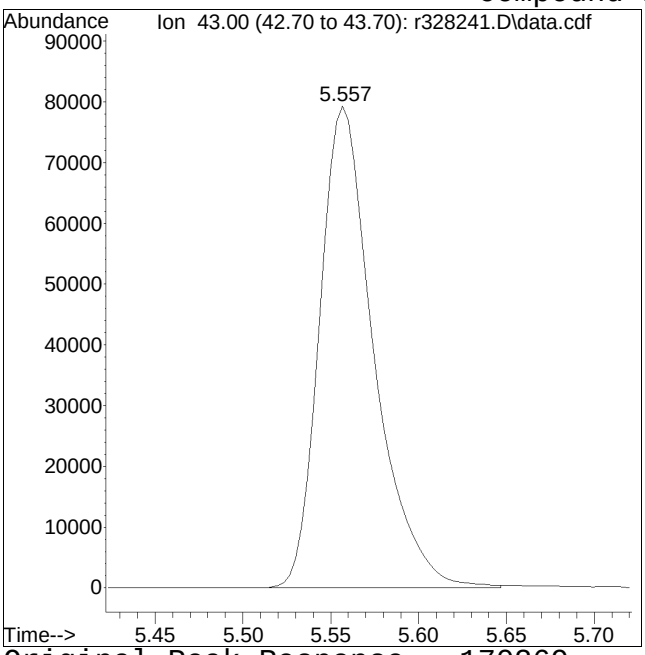
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

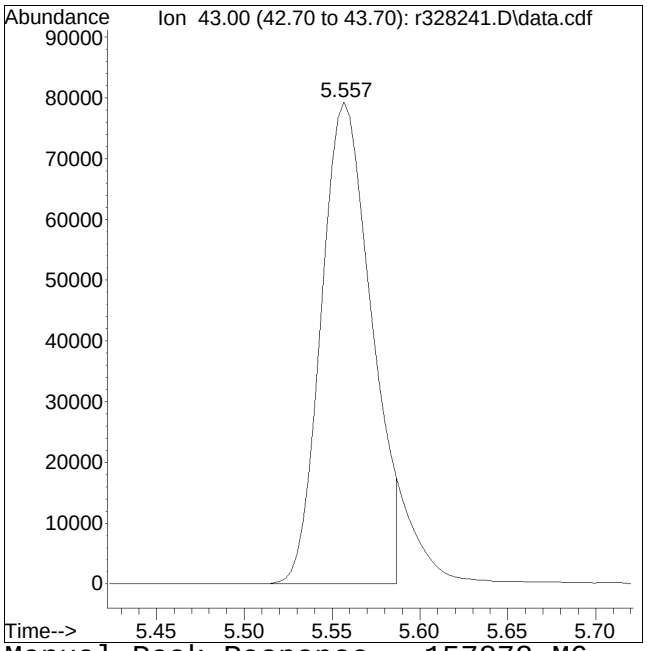
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328241.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD1.0

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #19: acetone



Original Peak Response = 170269



Manual Peak Response = 157878 M6

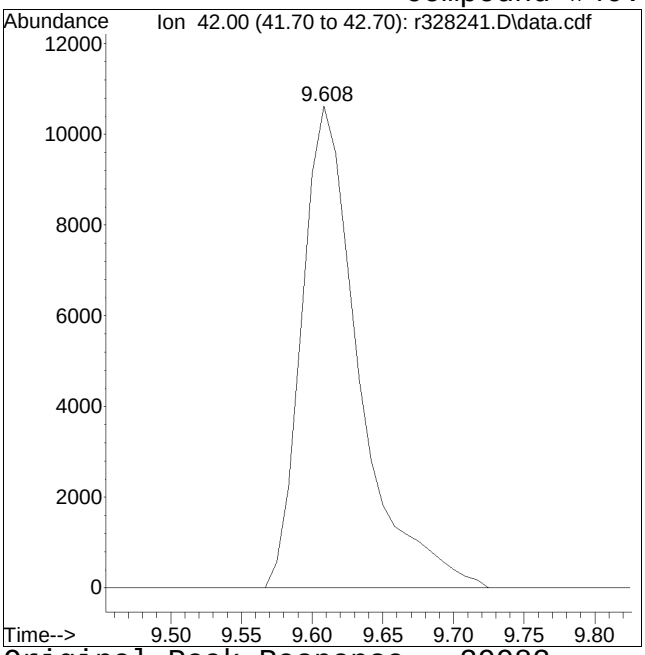
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

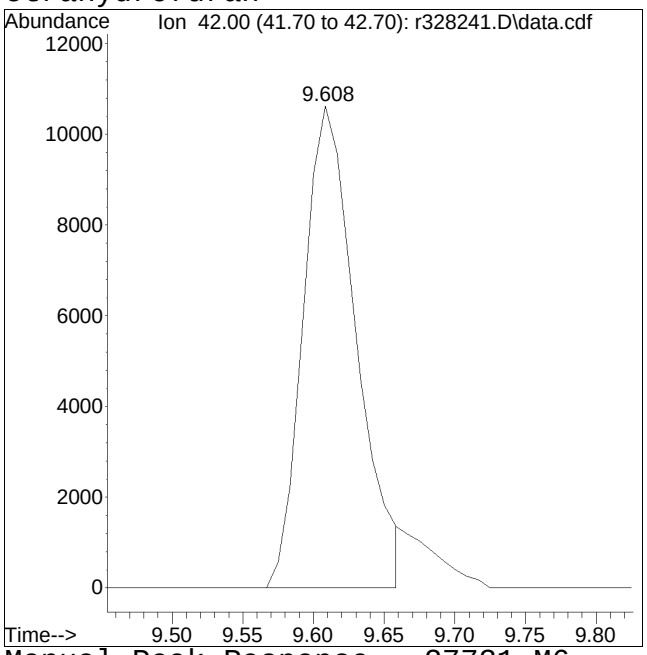
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328241.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD1.0

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #40: Tetrahydrofuran



Original Peak Response = 29982



Manual Peak Response = 27731 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328242.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:28 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	282375	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 95.28%			
43) 1,4-difluorobenzene	11.220	114	896124	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 95.10%			
67) chlorobenzene-D5	15.950	54	133383	10.000	ppbV	0.00
Standard Area = 136951			Recovery = 97.39%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	417639	10.293	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.93%			
69) toluene-D8	14.075	98	1243642	9.992	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
90) bromofluorobenzene	17.325	95	806162	10.004	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.04%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.804	51	133293	5.624	ppbV	99
3) propylene	3.834	41	99070M6	4.773	ppbV	
4) propane	3.858	29	103197	5.230	ppbV	96
5) dichlorodifluoromethane	3.906	85	184744	5.400	ppbV	100
6) chloromethane	4.068	50	87462	5.267	ppbV	99
7) Freon-114	4.170	85	228978	5.350	ppbV	100
8) methanol	4.230	31	215645	26.943	ppbV	100
9) vinyl chloride	4.296	62	123755	5.354	ppbV	99
10) 1,3-butadiene	4.434	54	85190	5.310	ppbV	99
11) butane	4.494	43	184904	5.237	ppbV	99
12) acetaldehyde	4.188	29	240587	27.771	ppbV	97
13) bromomethane	4.716	94	87807	5.272	ppbV	100
14) chloroethane	4.902	64	62361	5.294	ppbV	99
15) ethanol	5.028	31	320243	27.116	ppbV	98
16) dichlorofluoromethane	5.010	67	204742	5.063	ppbV	99
17) vinyl bromide	5.277	106	98327	5.230	ppbV	99
18) acrolein	5.407	56	53908	5.221	ppbV	100
19) acetone	5.543	43	788187	25.934	ppbV	100
20) acetonitrile	5.263	41	110010	5.224	ppbV	100
21) trichlorofluoromethane	5.737	101	190067	5.308	ppbV	100
22) isopropyl alcohol	5.820	45	476510	12.735	ppbV	100
23) acrylonitrile	6.060	53	87885	5.156	ppbV	99
24) pentane	6.133	43	226898	5.144	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328242.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:28 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.157	31	209151	4.998	ppbV	100
26) 1,1-dichloroethene	6.436	61	180149	5.255	ppbV	98
27) tertiary butyl alcohol	6.484	59	229365M6	5.046	ppbV	
28) methylene chloride	6.574	49	116536	5.189	ppbV	98
29) 3-chloropropene	6.706	41	169268	5.110	ppbV	99
30) carbon disulfide	6.880	76	319875	4.968	ppbV	99
31) Freon 113	6.880	101	207534	5.215	ppbV	100
32) trans-1,2-dichloroethene	7.625	61	181468	5.194	ppbV	100
33) 1,1-dichloroethane	7.850	63	231370	5.153	ppbV	99
34) MTBE	7.917	73	294884	5.136	ppbV	99
35) vinyl acetate	8.042	43	235184	5.038	ppbV	99
36) 2-butanone	8.300	43	255631	5.074	ppbV	99
37) cis-1,2-dichloroethene	8.800	61	171129	5.172	ppbV	99
38) Ethyl Acetate	9.075	61	45598	5.044	ppbV	81
39) chloroform	9.142	83	187179	5.237	ppbV	99
40) Tetrahydrofuran	9.583	42	151983M6	5.028	ppbV	
41) 2,2-dichloropropane	9.167	77	145721	5.144	ppbV	98
42) 1,2-dichloroethane	9.983	62	136839	5.247	ppbV	99
44) hexane	9.058	57	219099	5.212	ppbV	98
45) diisopropyl ether	9.050	87	108477	5.201	ppbV	95
46) tert-butyl ethyl ether	9.667	59	393151	5.184	ppbV	100
48) 1,1,1-trichloroethane	10.267	97	174174	5.247	ppbV	99
49) 1,1-dichloropropene	10.633	75	156093	5.168	ppbV	99
50) benzene	10.800	78	383155	5.140	ppbV	99
51) thiophene	10.947	84	263878	5.180	ppbV	100
52) carbon tetrachloride	10.967	117	141498	5.129	ppbV	100
53) cyclohexane	11.113	56	223147	5.177	ppbV	99
54) tert-amyl methyl ether	11.493	73	331637	5.042	ppbV	99
55) dibromomethane	11.713	93	105161	5.152	ppbV	99
56) 1,2-dichloropropane	11.747	63	160184	5.125	ppbV	99
57) bromodichloromethane	11.973	83	177708	5.057	ppbV	99
58) 1,4-dioxane	12.020	88	88885	5.206	ppbV	99
59) trichloroethene	12.027	130	156669	5.159	ppbV	98
60) 2,2,4-trimethylpentane	12.073	57	702860	5.355	ppbV	100
61) methyl methacrylate	12.267	41	153326	5.012	ppbV	100
62) heptane	12.387	43	248329	5.065	ppbV	98
63) cis-1,3-dichloropropene	13.042	75	196877	5.039	ppbV	100
64) 4-methyl-2-pentanone	13.083	43	299524	5.093	ppbV	99
65) trans-1,3-dichloropropene	13.667	75	157790	5.020	ppbV	99
66) 1,1,2-trichloroethane	13.867	97	150407	5.147	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328242.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:28 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.183	91	476779	5.116	ppbV	100
70)	2-methylthiophene	14.250	97	410167	5.040	ppbV	100
71)	1,3-dichloropropane	14.208	76	201498	5.001	ppbV	99
72)	2-hexanone	14.467	43	276981	4.864	ppbV	98
73)	3-methylthiophene	14.450	97	407973	5.046	ppbV	99
74)	dibromochloromethane	14.633	129	168264	4.841	ppbV	99
75)	1,2-dibromoethane	14.883	107	214067	4.939	ppbV	100
76)	butyl acetate	15.125	73	65539	4.798	ppbV	92
77)	octane	15.217	85	172553	5.035	ppbV	100
78)	tetrachloroethene	15.342	166	195487	4.906	ppbV	97
79)	1,1,1,2-tetrachloroethane	15.975	131	138424	4.987	ppbV	98
80)	chlorobenzene	15.983	112	356820	4.962	ppbV	99
81)	ethylbenzene	16.342	91	599018	5.045	ppbV	98
82)	2-ethylthiophene	16.375	97	453339	5.049	ppbV	99
83)	m+p-xylene	16.500	91	976662	10.174	ppbV	98
84)	bromoform	16.567	173	151400	4.609	ppbV	99
85)	styrene	16.825	104	399719	4.901	ppbV	100
86)	1,1,2,2-tetrachloroethane	16.925	83	327748	5.016	ppbV	100
87)	o-xylene	16.925	91	493514	5.115	ppbV	97
88)	1,2,3-trichloropropane	17.033	75	237437	4.955	ppbV	99
89)	nonane	17.117	43	362424	4.970	ppbV	98
91)	isopropylbenzene	17.433	105	591704	5.041	ppbV	100
92)	bromobenzene	17.517	77	316266	4.966	ppbV	98
93)	2-chlorotoluene	17.842	126	165130	5.009	ppbV	99
94)	n-propylbenzene	17.875	120	192373	5.031	ppbV	99
95)	4-chlorotoluene	17.900	126	159830	4.992	ppbV	93
96)	4-ethyl toluene	17.992	105	641341	4.959	ppbV	100
97)	1,3,5-trimethylbenzene	18.058	105	572299	5.075	ppbV	100
98)	tert-butylbenzene	18.400	119	554461	5.110	ppbV	100
99)	1,2,4-trimethylbenzene	18.400	105	587764	5.116	ppbV	98
100)	decane	18.475	57	481513	5.039	ppbV	99
101)	Benzyl Chloride	18.525	91	332682	4.576	ppbV	99
102)	1,3-dichlorobenzene	18.533	146	385653	5.018	ppbV	99
103)	1,4-dichlorobenzene	18.592	146	389292	5.080	ppbV	99
104)	sec-butylbenzene	18.625	105	771235	5.043	ppbV	100
105)	1,2,3-trimethylbenzene	18.750	105	539951	5.181	ppbV	98
106)	p-isopropyltoluene	18.750	119	676576	5.183	ppbV	98
107)	1,2-dichlorobenzene	18.875	146	363769	4.990	ppbV	99
108)	n-butylbenzene	19.092	91	600226	5.079	ppbV	99
109)	indan	18.925	117	551369	5.019	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328242.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:28 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

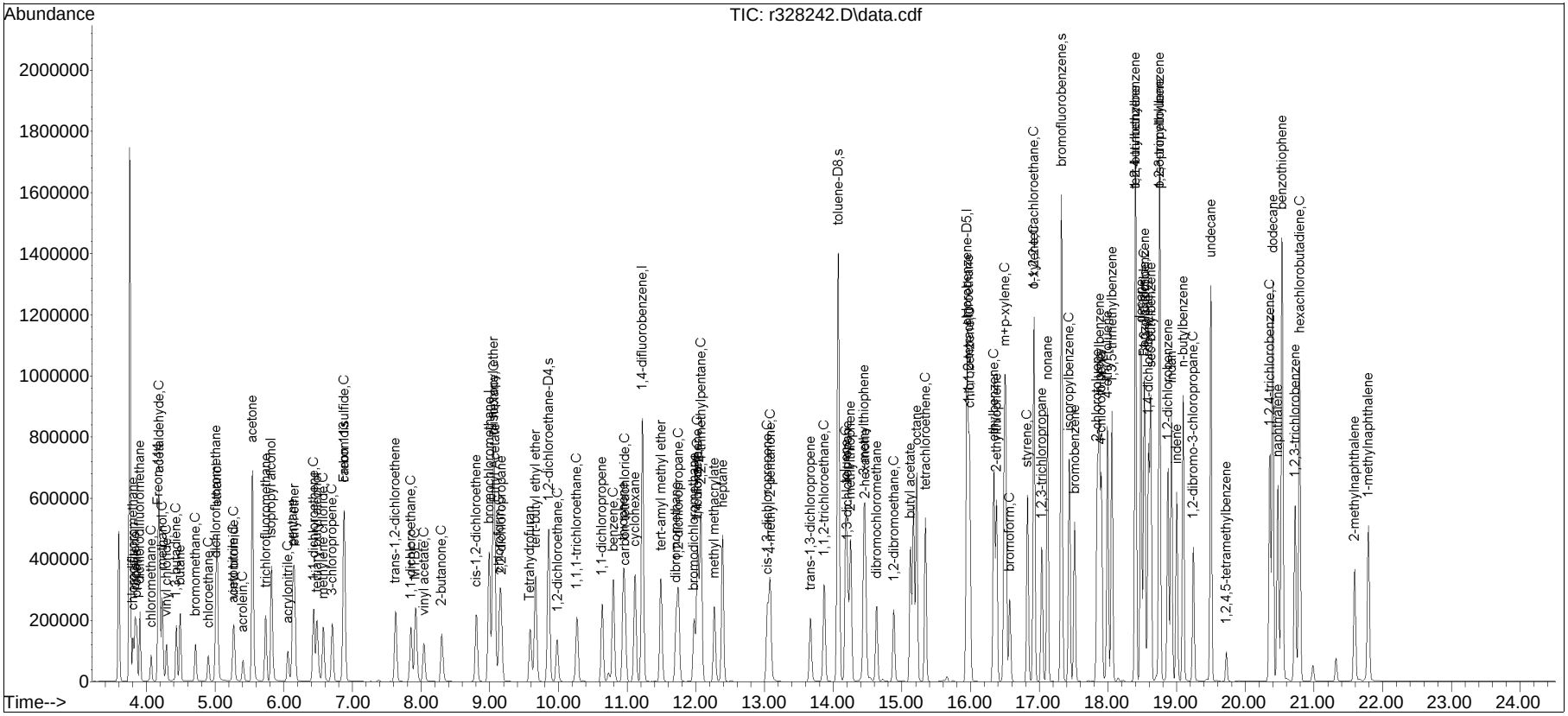
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.000	115	370630	4.944	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.242	75	128833	4.801	ppbV	98
112) undecane	19.500	57	546436	5.069	ppbV	98
113) 1,2,4,5-tetramethylben...	19.725	119	60739	5.022	ppbV	100
114) dodecane	20.400	57	544295	4.941	ppbV	98
115) 1,2,4-trichlorobenzene	20.358	180	314532	4.830	ppbV	100
116) naphthalene	20.475	128	646031	4.870	ppbV	99
117) 1,2,3-trichlorobenzene	20.725	180	247475	4.888	ppbV	99
118) benzothiophene	20.533	134	1369009	4.761	ppbV	99
119) hexachlorobutadiene	20.792	225	307896	5.040	ppbV	99
120) 2-methylnaphthalene	21.592	142	267586	4.309	ppbV	99
121) 1-methylnaphthalene	21.792	142	371640	4.513	ppbV	100

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328242.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:28 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

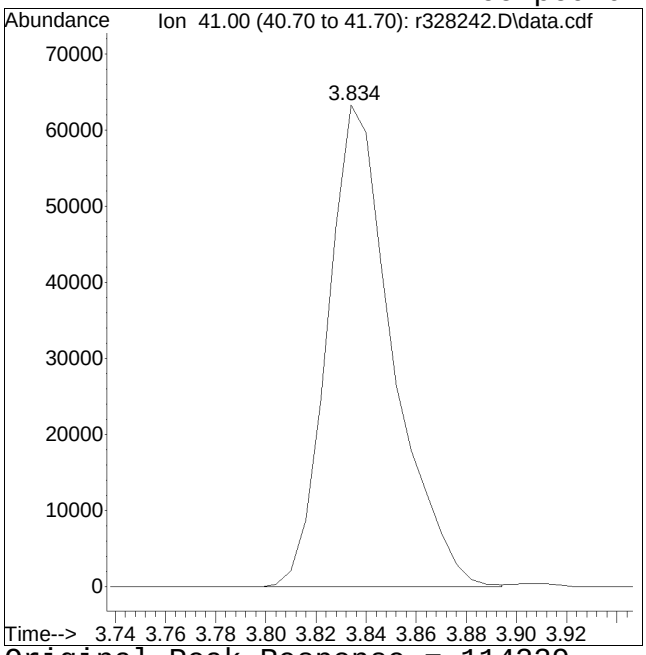


Manual Integration Report

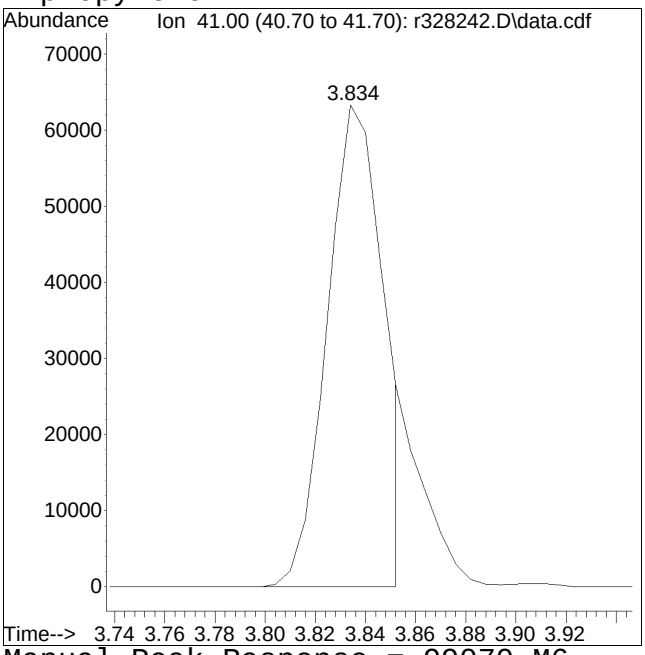
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328242.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD5.0

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 114229



Manual Peak Response = 99070 M6

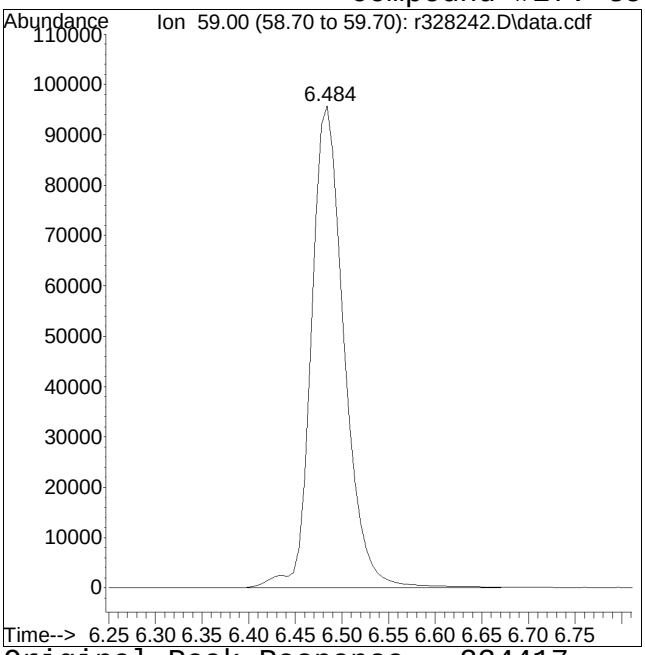
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

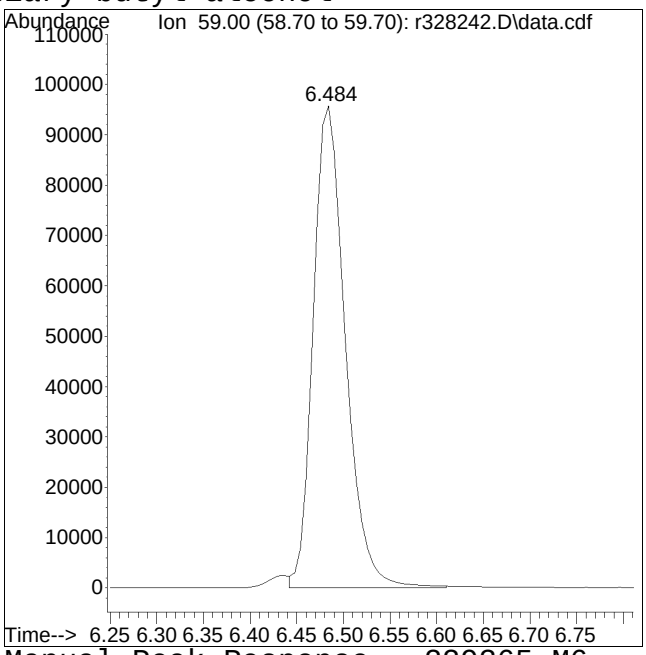
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328242.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD5.0

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 234417



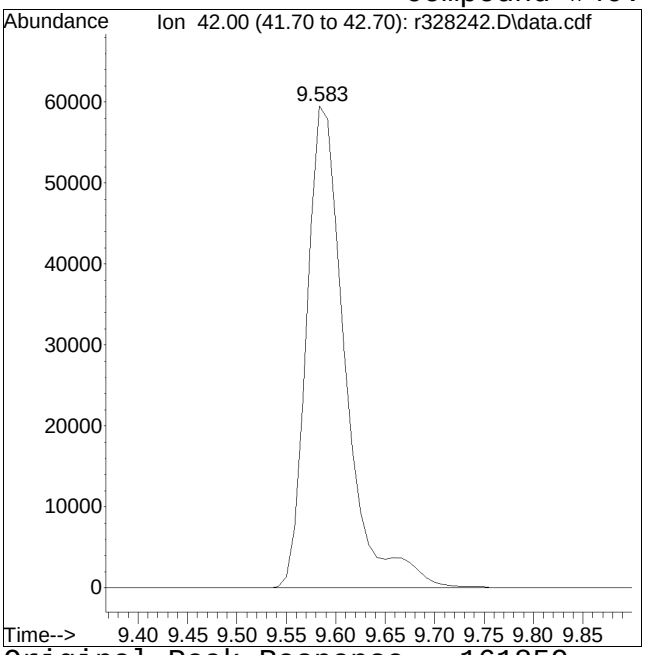
Manual Peak Response = 229365 M6

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

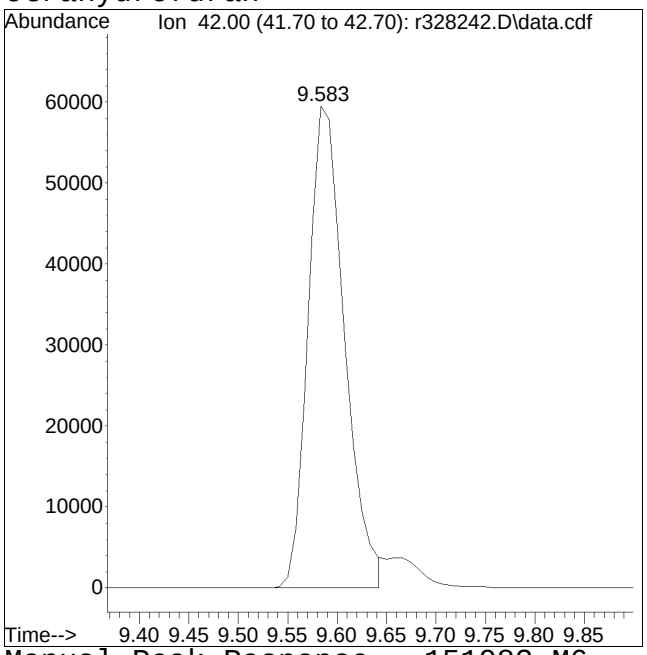
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TFS3_231230.M
Data File : r328242.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:5: 5 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 12/31/2023 9:34 am

Compound #40: Tetrahydrofuran



Original Peak Response = 161859



Manual Peak Response = 151983 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328243.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:18:59 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 16 12:42:50 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	296369	10.000	ppbV	0.03
Standard Area = 296369			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.220	114	942248	10.000	ppbV	0.03
Standard Area = 942248			Recovery = 100.00%			
67) chlorobenzene-D5	15.950	54	136951	10.000	ppbV	0.02
Standard Area = 136951			Recovery = 100.00%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.850	65	426625	15.156	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 151.56%#			
69) toluene-D8	14.067	98	1277877	13.423	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 134.23%#			
90) bromofluorobenzene	17.325	95	827428	14.020	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 140.20%#			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.804	51	248765	12.964	ppbV	100
3) propylene	3.834	41	217828M6	15.131	ppbV	
4) propane	3.858	29	207104	13.153	ppbV	98
5) dichlorodifluoromethane	3.900	85	359087	15.414	ppbV	100
6) chloromethane	4.062	50	174288	15.861	ppbV	99
7) Freon-114	4.170	85	449200	16.194	ppbV	100
8) methanol	4.224	31	420016	70.557	ppbV	99
9) vinyl chloride	4.290	62	242597	15.669	ppbV	99
10) 1,3-butadiene	4.434	54	168385	15.194	ppbV	98
11) butane	4.488	43	370569	14.426	ppbV	99
12) acetaldehyde	4.188	29	454622	74.710	ppbV	98
13) bromomethane	4.710	94	174810	15.626	ppbV	98
14) chloroethane	4.896	64	123634	15.632	ppbV	99
15) ethanol	5.022	31	619768	68.595	ppbV	97
16) dichlorofluoromethane	5.004	67	424432	15.672	ppbV	100
17) vinyl bromide	5.273	106	197310	14.548	ppbV	100
18) acrolein	5.400	56	108365	13.165	ppbV	99
19) acetone	5.537	43	1594931	67.577	ppbV	100
20) acetonitrile	5.257	41	221020	13.169	ppbV	100
21) trichlorofluoromethane	5.733	101	375828	14.153	ppbV	100
22) isopropyl alcohol	5.813	45	981773	33.071	ppbV	100
23) acrylonitrile	6.053	53	178906	12.662	ppbV	99
24) pentane	6.130	43	462974	12.749	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328243.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:18:59 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 16 12:42:50 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.150	31	439201	14.776	ppbV	99
26) 1,1-dichloroethene	6.430	61	359780	14.136	ppbV	99
27) tertiary butyl alcohol	6.472	59	477082M4	13.319	ppbV	
28) methylene chloride	6.574	49	235696	13.920	ppbV	97
29) 3-chloropropene	6.706	41	347659	13.204	ppbV	99
30) carbon disulfide	6.874	76	675762	14.002	ppbV	100
31) Freon 113	6.874	101	417712	14.273	ppbV	99
32) trans-1,2-dichloroethene	7.625	61	366663	13.654	ppbV	99
33) 1,1-dichloroethane	7.850	63	471271	13.904	ppbV	98
34) MTBE	7.917	73	602634	13.187	ppbV	99
35) vinyl acetate	8.033	43	489909	13.734	ppbV	99
36) 2-butanone	8.292	43	528813	13.684	ppbV	98
37) cis-1,2-dichloroethene	8.800	61	347280	14.058	ppbV	98
38) Ethyl Acetate	9.067	61	94873	14.056	ppbV	76
39) chloroform	9.142	83	375104	14.082	ppbV	99
40) Tetrahydrofuran	9.575	42	317274	12.840	ppbV	100
41) 2,2-dichloropropane	9.158	77	297320	13.004	ppbV	98
42) 1,2-dichloroethane	9.975	62	273735	13.787	ppbV	99
44) hexane	9.050	57	441979	14.924	ppbV	89
45) diisopropyl ether	9.050	87	219325	13.971	ppbV	95
46) tert-butyl ethyl ether	9.658	59	797498	14.052	ppbV	100
48) 1,1,1-trichloroethane	10.267	97	349026	15.064	ppbV	98
49) 1,1-dichloropropene	10.633	75	317604	13.761	ppbV	99
50) benzene	10.793	78	783740	14.520	ppbV	100
51) thiophene	10.940	84	535634	15.787	ppbV	99
52) carbon tetrachloride	10.967	117	290104	15.667	ppbV	100
53) cyclohexane	11.113	56	453263	14.376	ppbV	99
54) tert-amyl methyl ether	11.487	73	691633	13.762	ppbV	99
55) dibromomethane	11.713	93	214621	14.359	ppbV	98
56) 1,2-dichloropropane	11.740	63	328640	15.182	ppbV	100
57) bromodichloromethane	11.973	83	369529	15.020	ppbV	99
58) 1,4-dioxane	12.013	88	179528	14.582	ppbV	100
59) trichloroethene	12.020	130	319341	15.491	ppbV	98
60) 2,2,4-trimethylpentane	12.067	57	1380154M6	14.350	ppbV	
61) methyl methacrylate	12.267	41	321694	14.768	ppbV	99
62) heptane	12.387	43	515508	14.513	ppbV	99
63) cis-1,3-dichloropropene	13.042	75	410807	14.761	ppbV	98
64) 4-methyl-2-pentanone	13.075	43	618411	14.984	ppbV	99
65) trans-1,3-dichloropropene	13.667	75	330516	14.464	ppbV	99
66) 1,1,2-trichloroethane	13.867	97	307237	15.038	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328243.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:18:59 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 16 12:42:50 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.183	91	956788	14.304	ppbV	99
70)	2-methylthiophene	14.250	97	835671	14.383	ppbV	100
71)	1,3-dichloropropane	14.208	76	413726	13.150	ppbV	99
72)	2-hexanone	14.467	43	584728	14.457	ppbV	99
73)	3-methylthiophene	14.442	97	830175	14.402	ppbV	100
74)	dibromochloromethane	14.625	129	356873	14.804	ppbV	100
75)	1,2-dibromoethane	14.875	107	445026	14.604	ppbV	99
76)	butyl acetate	15.117	73	140257	13.830	ppbV	98
77)	octane	15.217	85	351894	13.095	ppbV	97
78)	tetrachloroethene	15.342	166	409127	15.068	ppbV	100
79)	1,1,1,2-tetrachloroethane	15.967	131	284967	14.052	ppbV	98
80)	chlorobenzene	15.983	112	738369	14.501	ppbV	100
81)	ethylbenzene	16.333	91	1219102	14.499	ppbV	100
82)	2-ethylthiophene	16.375	97	921975	14.028	ppbV	100
83)	m+p-xylene	16.500	91	1971344	29.391	ppbV	100
84)	bromoform	16.567	173	337276	15.049	ppbV	99
85)	styrene	16.825	104	837330	14.757	ppbV	99
86)	1,1,2,2-tetrachloroethane	16.917	83	670891	15.054	ppbV	98
87)	o-xylene	16.925	91	990602	15.065	ppbV	99
88)	1,2,3-trichloropropane	17.033	75	492006	13.381	ppbV	99
89)	nonane	17.117	43	748711	13.733	ppbV	98
91)	isopropylbenzene	17.433	105	1205270	13.880	ppbV	100
92)	bromobenzene	17.517	77	653853	13.557	ppbV	97
93)	2-chlorotoluene	17.842	126	338511	13.627	ppbV	96
94)	n-propylbenzene	17.867	120	392604	13.774	ppbV	95
95)	4-chlorotoluene	17.900	126	328748	13.539	ppbV	99
96)	4-ethyl toluene	17.992	105	1327854	14.478	ppbV	99
97)	1,3,5-trimethylbenzene	18.058	105	1157915	14.668	ppbV	98
98)	tert-butylbenzene	18.400	119	1114052	14.571	ppbV	98
99)	1,2,4-trimethylbenzene	18.400	105	1179503	15.558	ppbV	97
100)	decane	18.475	57	981224	13.950	ppbV	99
101)	Benzyl Chloride	18.525	91	746385	14.586	ppbV	99
102)	1,3-dichlorobenzene	18.533	146	789164	15.660	ppbV	97
103)	1,4-dichlorobenzene	18.592	146	786833	15.621	ppbV	97
104)	sec-butylbenzene	18.625	105	1570349	14.323	ppbV	99
105)	1,2,3-trimethylbenzene	18.750	105	1069968	15.321	ppbV	100
106)	p-isopropyltoluene	18.750	119	1340409	14.631	ppbV	98
107)	1,2-dichlorobenzene	18.875	146	748427	15.374	ppbV	99
108)	n-butylbenzene	19.092	91	1213354	14.097	ppbV	98
109)	indan	18.925	117	1127955	15.425	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328243.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:18:59 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 16 12:42:50 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

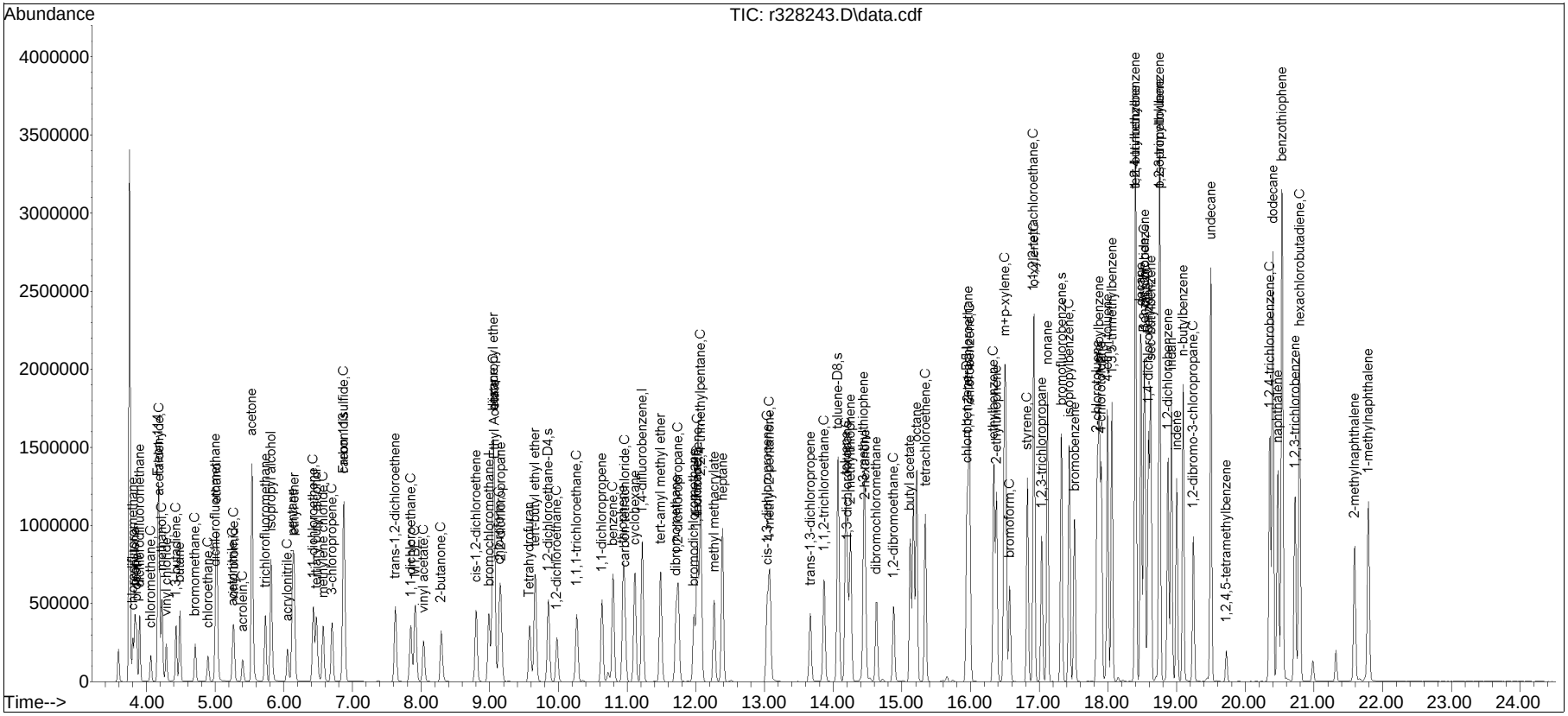
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.000	115	769745	15.518	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.242	75	275496	13.799	ppbV	93
112) undecane	19.500	57	1106729	14.236	ppbV	98
113) 1,2,4,5-tetramethylben...	19.725	119	124187	4.762	ppbV	99
114) dodecane	20.400	57	1131164	14.516	ppbV	99
115) 1,2,4-trichlorobenzene	20.358	180	668651	15.088	ppbV	99
116) naphthalene	20.475	128	1361938	13.179	ppbV	98
117) 1,2,3-trichlorobenzene	20.725	180	519872	13.209	ppbV	98
118) benzothiophene	20.533	134	2952534	17.872	ppbV	99
119) hexachlorobutadiene	20.792	225	627294	15.776	ppbV	99
120) 2-methylnaphthalene	21.592	142	637586	17.131	ppbV	98
121) 1-methylnaphthalene	21.792	142	845580	17.410	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328243.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:18:59 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sat Sep 16 12:42:50 2023
Response via : Initial Calibration

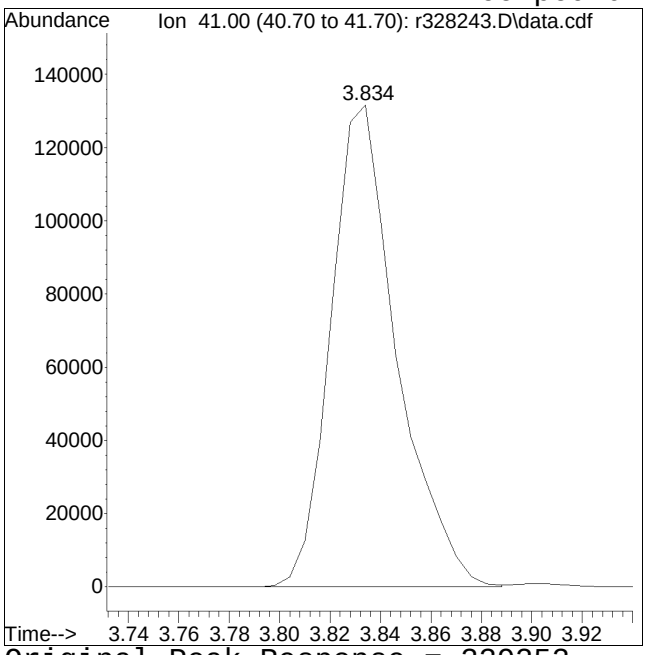


Manual Integration Report

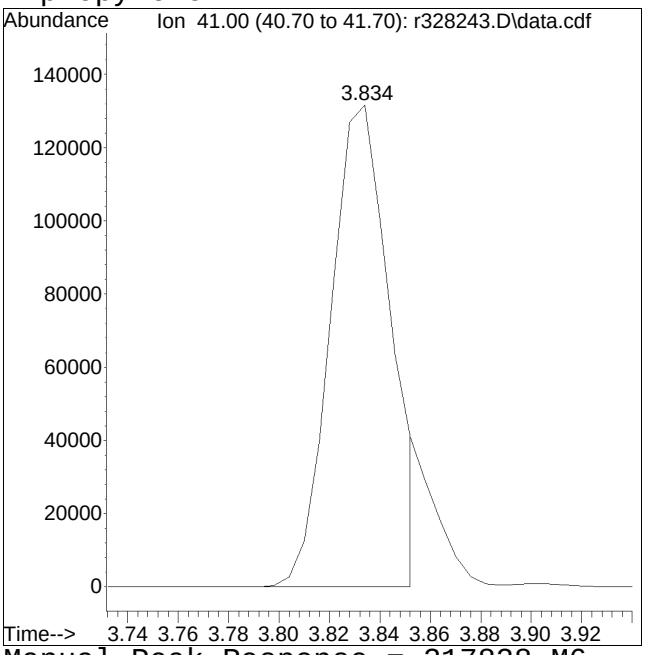
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328243.D
Date Inj'd : 12/30/2020 0:6: 8
Sample : ITO15-SIMSTD010

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:18 am

Compound #3: propylene



Original Peak Response = 239252



Manual Peak Response = 217828 M6

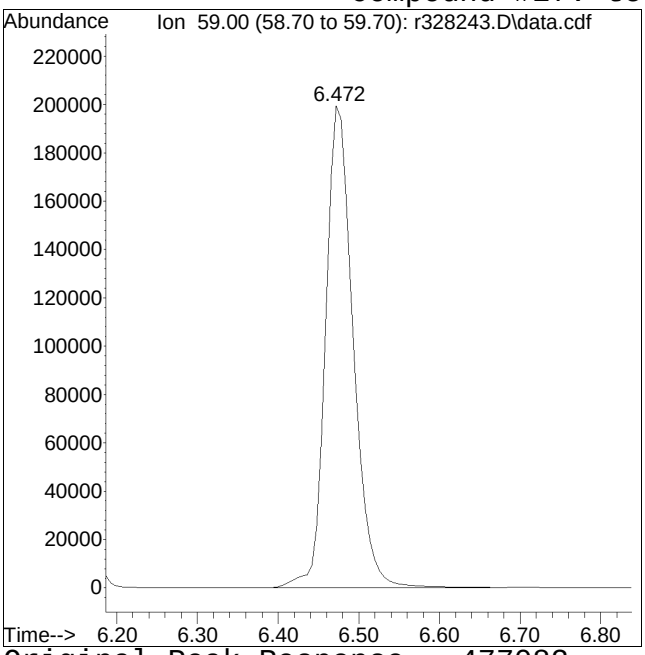
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

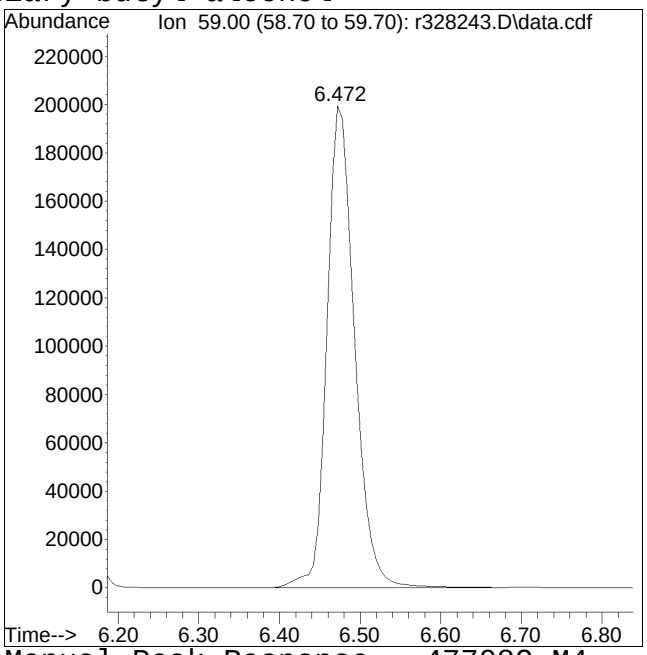
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328243.D
Date Inj'd : 12/30/2020 0:6: 8
Sample : ITO15-SIMSTD010

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:18 am

Compound #27: tertiary butyl alcohol



Original Peak Response = 477082



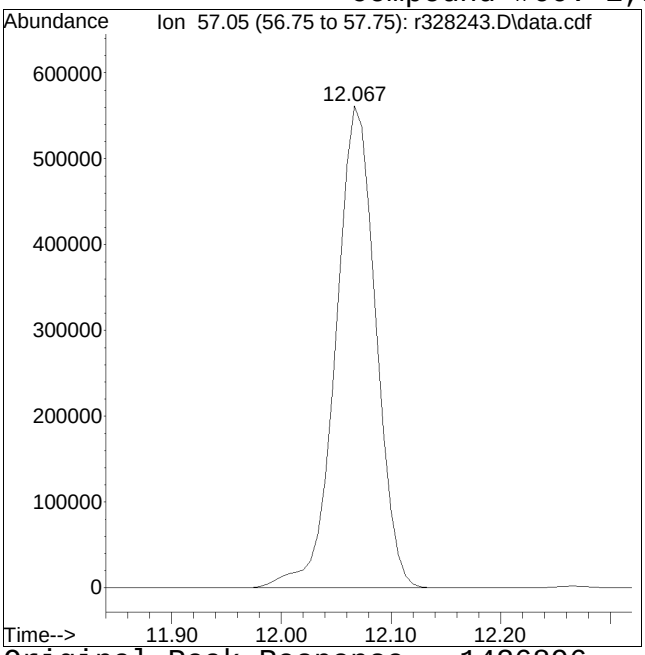
Manual Peak Response = 477082 M4

M4 = Poor automated baseline construction.

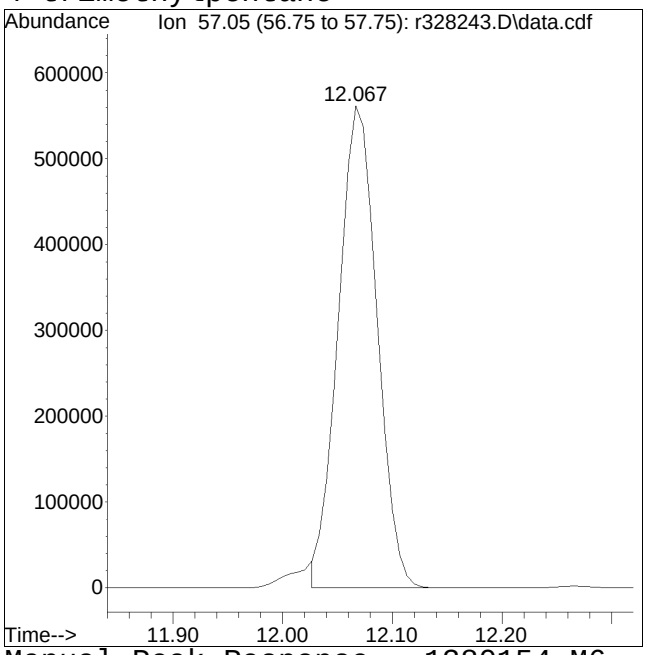
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TFS3_231230.M
Data File : r328243.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:6: 8 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 12/31/2023 9:18 am

Compound #60: 2,2,4-trimethylpentane



Original Peak Response = 1426896



Manual Peak Response = 1380154 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328244.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:36 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	309333	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 104.37%			
43) 1,4-difluorobenzene	11.220	114	992697	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 105.35%			
67) chlorobenzene-D5	15.942	54	136131	10.000	ppbV	0.00
Standard Area = 136951			Recovery = 99.40%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	423139	9.414	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.14%			
69) toluene-D8	14.067	98	1313996	10.345	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.45%			
90) bromofluorobenzene	17.325	95	818518	9.952	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.52%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.804	51	573795	22.099	ppbV	99
3) propylene	3.834	41	461749M6	20.309	ppbV	
4) propane	3.858	29	451257	20.876	ppbV	95
5) dichlorodifluoromethane	3.906	85	701722	18.723	ppbV	100
6) chloromethane	4.068	50	360237	19.803	ppbV	99
7) Freon-114	4.170	85	885110	18.878	ppbV	99
8) methanol	4.230	31	903257	103.020	ppbV	99
9) vinyl chloride	4.296	62	478207	18.886	ppbV	100
10) 1,3-butadiene	4.434	54	345156	19.639	ppbV	99
11) butane	4.494	43	806146	20.843	ppbV	99
12) acetaldehyde	4.188	29	875517	92.255	ppbV	94
13) bromomethane	4.716	94	349717	19.167	ppbV	100
14) chloroethane	4.902	64	250943	19.447	ppbV	100
15) ethanol	5.028	31	1298397	100.359	ppbV	95
16) dichlorofluoromethane	5.010	67	888934	20.066	ppbV	100
17) vinyl bromide	5.277	106	395878	19.223	ppbV	100
18) acrolein	5.403	56	243995	21.572	ppbV	100
19) acetone	5.537	43	3367671	101.150	ppbV	100
20) acetonitrile	5.260	41	484839	21.017	ppbV	99
21) trichlorofluoromethane	5.733	101	761735	19.419	ppbV	99
22) isopropyl alcohol	5.817	45	2146569	52.370	ppbV	100
23) acrylonitrile	6.057	53	408148	21.857	ppbV	99
24) pentane	6.133	43	1064056	22.020	ppbV	99

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328244.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:36 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.153	31	1052963	22.970	ppbV		99
26) 1,1-dichloroethene	6.436	61	745493	19.852	ppbV		99
27) tertiary butyl alcohol	6.472	59	1062817	21.344	ppbV		99
28) methylene chloride	6.574	49	493237	20.050	ppbV		97
29) 3-chloropropene	6.706	41	759320	20.926	ppbV		97
30) carbon disulfide	6.874	76	1486436	21.075	ppbV		99
31) Freon 113	6.874	101	865881	19.860	ppbV		98
32) trans-1,2-dichloroethene	7.625	61	776534	20.291	ppbV		99
33) 1,1-dichloroethane	7.850	63	987376	20.073	ppbV		99
34) MTBE	7.917	73	1304701	20.743	ppbV		99
35) vinyl acetate	8.033	43	1093584	21.387	ppbV		100
36) 2-butanone	8.292	43	1151364	20.860	ppbV		99
37) cis-1,2-dichloroethene	8.800	61	722060	19.920	ppbV		98
38) Ethyl Acetate	9.067	61	204673	20.669	ppbV		93
39) chloroform	9.142	83	774681	19.787	ppbV		100
40) Tetrahydrofuran	9.575	42	694114	20.961	ppbV		99
41) 2,2-dichloropropane	9.167	77	662874	21.361	ppbV		99
42) 1,2-dichloroethane	9.975	62	545033	19.077	ppbV		98
44) hexane	9.058	57	926282	19.893	ppbV	#	76
45) diisopropyl ether	9.050	87	489629	21.190	ppbV		98
46) tert-butyl ethyl ether	9.658	59	1767504	21.037	ppbV		99
48) 1,1,1-trichloroethane	10.267	97	710829	19.331	ppbV		99
49) 1,1-dichloropropene	10.633	75	720258	21.525	ppbV		98
50) benzene	10.793	78	1668261	20.204	ppbV		99
51) thiophene	10.940	84	1317644	23.350	ppbV		99
52) carbon tetrachloride	10.967	117	596908	19.530	ppbV		100
53) cyclohexane	11.113	56	963474	20.176	ppbV		99
54) tert-amyl methyl ether	11.487	73	1575086	21.616	ppbV		99
55) dibromomethane	11.713	93	477946	21.138	ppbV		98
56) 1,2-dichloropropane	11.740	63	695984	20.101	ppbV		99
57) bromodichloromethane	11.973	83	780528	20.049	ppbV		100
58) 1,4-dioxane	12.007	88	390984	20.672	ppbV		99
59) trichloroethene	12.020	130	671961	19.973	ppbV		99
60) 2,2,4-trimethylpentane	12.067	57	2997756	20.617	ppbV		99
61) methyl methacrylate	12.267	41	703625	20.761	ppbV		99
62) heptane	12.387	43	1121338	20.647	ppbV		98
63) cis-1,3-dichloropropene	13.042	75	884950	20.447	ppbV		98
64) 4-methyl-2-pentanone	13.075	43	1341340	20.588	ppbV		99
65) trans-1,3-dichloropropene	13.667	75	708056	20.334	ppbV		99
66) 1,1,2-trichloroethane	13.867	97	643203	19.871	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328244.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:36 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68)	toluene	14.183	91	1980107	20.820	ppbV	100
70)	2-methylthiophene	14.250	97	2020655	24.326	ppbV	99
71)	1,3-dichloropropane	14.208	76	942528	22.919	ppbV	99
72)	2-hexanone	14.458	43	1290670	22.206	ppbV	98
73)	3-methylthiophene	14.442	97	1990034	24.116	ppbV	99
74)	dibromochloromethane	14.625	129	766010	21.594	ppbV	100
75)	1,2-dibromoethane	14.875	107	929435	21.011	ppbV	99
76)	butyl acetate	15.117	73	324852	23.301	ppbV	98
77)	octane	15.208	85	794441	22.712	ppbV	98
78)	tetrachloroethene	15.342	166	833591	20.498	ppbV	96
79)	1,1,1,2-tetrachloroethane	15.967	131	635182	22.424	ppbV	99
80)	chlorobenzene	15.983	112	1554205	21.176	ppbV	99
81)	ethylbenzene	16.333	91	2470800	20.389	ppbV	97
82)	2-ethylthiophene	16.375	97	2171471	23.694	ppbV	97
83)	m+p-xylene	16.500	91	3964000	40.458	ppbV	99
84)	bromoform	16.567	173	744158	22.197	ppbV	99
85)	styrene	16.825	104	1742641	20.937	ppbV	100
86)	1,1,2,2-tetrachloroethane	16.917	83	1412290	21.178	ppbV	100
87)	o-xylene	16.925	91	1967618	19.982	ppbV	99
88)	1,2,3-trichloropropane	17.033	75	1111817	22.734	ppbV	99
89)	nonane	17.117	43	1672197	22.469	ppbV	98
91)	isopropylbenzene	17.433	105	2617910	21.851	ppbV	98
92)	bromobenzene	17.517	77	1470733	22.629	ppbV	99
93)	2-chlorotoluene	17.842	126	765819	22.759	ppbV	96
94)	n-propylbenzene	17.867	120	887056	22.730	ppbV	89
95)	4-chlorotoluene	17.900	126	726121	22.221	ppbV	94
96)	4-ethyl toluene	17.992	105	2725459	20.649	ppbV	99
97)	1,3,5-trimethylbenzene	18.058	105	2334464	20.282	ppbV	98
98)	tert-butylbenzene	18.400	119	2343457	21.162	ppbV	98
99)	1,2,4-trimethylbenzene	18.400	105	2264057	19.311	ppbV	95
100)	decane	18.475	57	2101510	21.546	ppbV	98
101)	Benzyl Chloride	18.517	91	1655469	22.313	ppbV	98
102)	1,3-dichlorobenzene	18.533	146	1565546	19.958	ppbV	99
103)	1,4-dichlorobenzene	18.592	146	1533776	19.610	ppbV	98
104)	sec-butylbenzene	18.625	105	3320618	21.273	ppbV	97
105)	1,2,3-trimethylbenzene	18.750	105	2089673	19.648	ppbV	96
106)	p-isopropyltoluene	18.750	119	2793377	20.965	ppbV	97
107)	1,2-dichlorobenzene	18.875	146	1481379	19.912	ppbV	99
108)	n-butylbenzene	19.092	91	2609454	21.636	ppbV	99
109)	indan	18.925	117	2295448	20.473	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328244.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:36 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

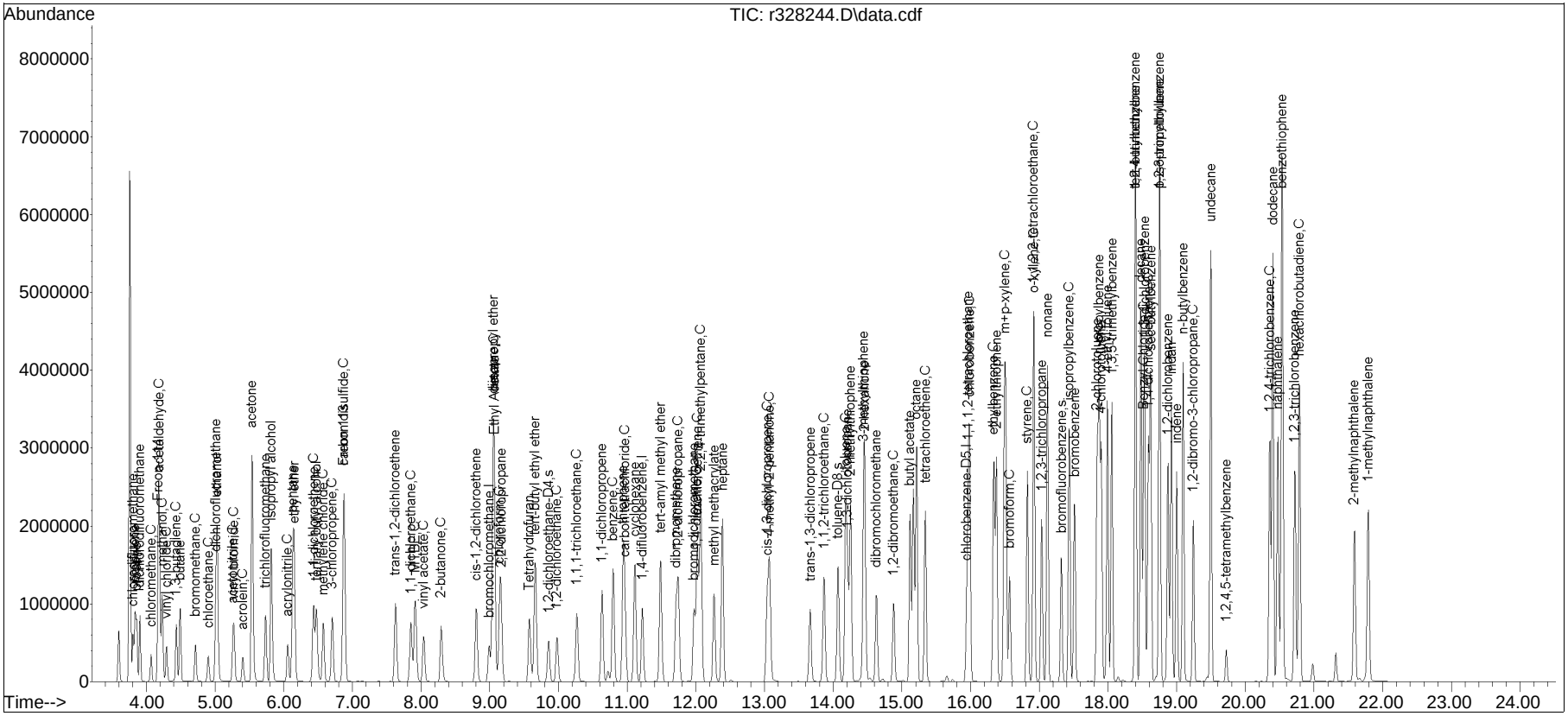
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.000	115	1607541	21.010	ppbV	100
111) 1,2-dibromo-3-chloropr...	19.242	75	615657	22.482	ppbV	97
112) undecane	19.500	57	2345273	21.319	ppbV	98
113) 1,2,4,5-tetramethylben...	19.725	119	259203	20.998	ppbV	99
114) dodecane	20.400	57	2279045	20.269	ppbV	97
115) 1,2,4-trichlorobenzene	20.358	180	1359973	20.462	ppbV	98
116) naphthalene	20.475	128	3196557	23.612	ppbV	100
117) 1,2,3-trichlorobenzene	20.717	180	1230375	23.809	ppbV	96
118) benzothiophene	20.533	134	6507935	22.175	ppbV	98
119) hexachlorobutadiene	20.783	225	1172240	18.800	ppbV	96
120) 2-methylnaphthalene	21.583	142	1443345	22.774	ppbV	99
121) 1-methylnaphthalene	21.792	142	1642844	19.546	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328244.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:36 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

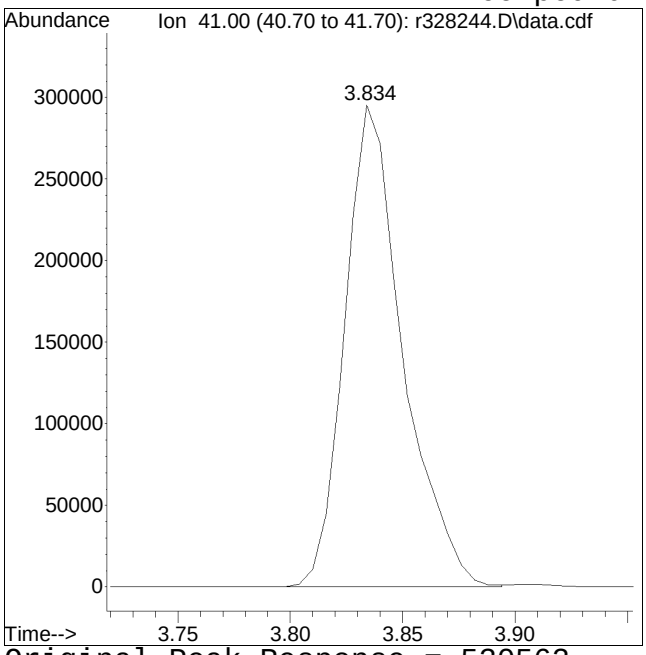


Manual Integration Report

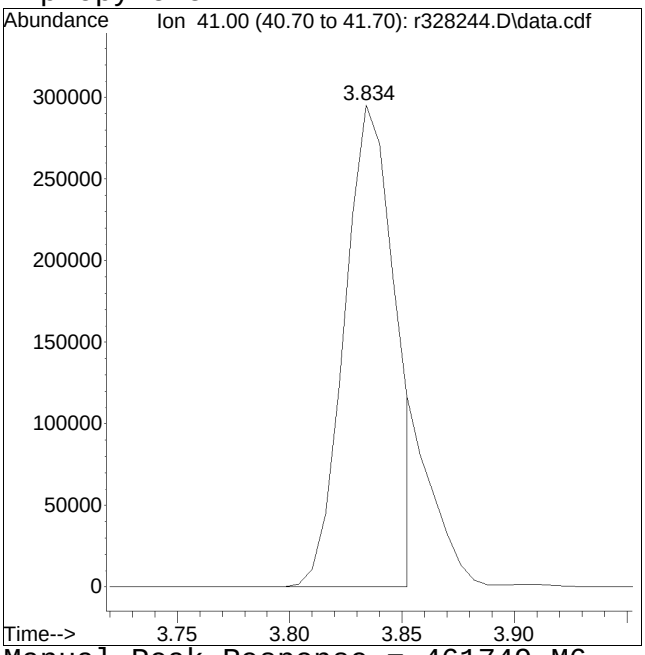
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328244.D
Date Inj'd : 12/30/2020 0:7: 7
Sample : ITO15-SIMSTD020

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 530562



Manual Peak Response = 461749 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328245.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:44 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	325578	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 109.86%			
43) 1,4-difluorobenzene	11.220	114	1037389	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 110.10%			
67) chlorobenzene-D5	15.942	54	132066	10.000	ppbV	# 0.00
Standard Area = 136951			Recovery = 96.43%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.850	65	394609	8.401	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 84.01%			
69) toluene-D8	14.067	98	1327196	10.770	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 107.70%			
90) bromofluorobenzene	17.325	95	813988	10.201	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.01%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.798	51	1243072	45.487	ppbV	97
3) propylene	3.828	41	1033834M6	43.203	ppbV	
4) propane	3.852	29	1000620	43.980	ppbV	95
5) dichlorodifluoromethane	3.900	85	1480757	37.537	ppbV	100
6) chloromethane	4.062	50	812141	42.417	ppbV	99
7) Freon-114	4.164	85	1827393	37.031	ppbV	98
8) methanol	4.224	31	1948621	211.159	ppbV	99
9) vinyl chloride	4.284	62	1022834	38.379	ppbV	100
10) 1,3-butadiene	4.428	54	759455	41.056	ppbV	99
11) butane	4.482	43	1806692	44.381	ppbV	98
12) acetaldehyde	4.182	29	1809197	181.127	ppbV	89
13) bromomethane	4.704	94	753071	39.215	ppbV	99
14) chloroethane	4.890	64	545574	40.169	ppbV	100
15) ethanol	5.028	31	2559546	187.967	ppbV	90
16) dichlorofluoromethane	5.004	67	1711628	36.710	ppbV	99
17) vinyl bromide	5.270	106	847176	39.084	ppbV	99
18) acrolein	5.393	56	568361	47.743	ppbV	98
19) acetone	5.530	43	7410383	211.469	ppbV	98
20) acetonitrile	5.253	41	1093382	45.032	ppbV	98
21) trichlorofluoromethane	5.727	101	1627509	39.420	ppbV	99
22) isopropyl alcohol	5.813	45	5114197	118.545	ppbV	99
23) acrylonitrile	6.050	53	979095	49.817	ppbV	99
24) pentane	6.123	43	2547001	50.078	ppbV	98

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328245.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:44 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) ethyl ether	6.143	31	2218692	45.984	ppbV	96
26) 1,1-dichloroethene	6.424	61	1655922	41.897	ppbV	96
27) tertiary butyl alcohol	6.472	59	2403067	45.851	ppbV	99
28) methylene chloride	6.568	49	1167367	45.085	ppbV	96
29) 3-chloropropene	6.700	41	1852889	48.515	ppbV	94
30) carbon disulfide	6.868	76	3474282	46.800	ppbV	97
31) Freon 113	6.868	101	1928444	42.025	ppbV	97
32) trans-1,2-dichloroethene	7.625	61	1764910	43.816	ppbV	98
33) 1,1-dichloroethane	7.842	63	2288801	44.209	ppbV	98
34) MTBE	7.908	73	3061541	46.245	ppbV	97
35) vinyl acetate	8.033	43	2738556	50.884	ppbV	99
36) 2-butanone	8.283	43	2812219	48.409	ppbV	98
37) cis-1,2-dichloroethene	8.800	61	1645379	43.128	ppbV	96
38) Ethyl Acetate	9.067	61	472531	45.338	ppbV	88
39) chloroform	9.142	83	1761462	42.746	ppbV	99
40) Tetrahydrofuran	9.567	42	1725754	49.513	ppbV	100
41) 2,2-dichloropropane	9.158	77	1477386	45.232	ppbV	95
42) 1,2-dichloroethane	9.975	62	1163840	38.703	ppbV	94
44) hexane	9.050	57	2025581	41.627	ppbV	83
45) diisopropyl ether	9.042	87	1134204	46.971	ppbV	99
46) tert-butyl ethyl ether	9.658	59	3907610	44.505	ppbV	97
48) 1,1,1-trichloroethane	10.267	97	1650191	42.944	ppbV	98
49) 1,1-dichloropropene	10.633	75	1714081	49.020	ppbV	94
50) benzene	10.793	78	4051648	46.955	ppbV	98
51) thiophene	10.940	84	3088954	52.380	ppbV	96
52) carbon tetrachloride	10.967	117	1301164	40.738	ppbV	99
53) cyclohexane	11.107	56	2219346	44.473	ppbV	96
54) tert-amyl methyl ether	11.480	73	3736663	49.072	ppbV	98
55) dibromomethane	11.713	93	1079585	45.689	ppbV	98
56) 1,2-dichloropropane	11.740	63	1611108	44.527	ppbV	98
57) bromodichloromethane	11.973	83	1810247	44.495	ppbV	100
58) 1,4-dioxane	12.000	88	927470	46.924	ppbV	94
59) trichloroethene	12.020	130	1561555	44.415	ppbV	98
60) 2,2,4-trimethylpentane	12.067	57	6693088	44.048	ppbV	99
61) methyl methacrylate	12.260	41	1677904	47.375	ppbV	98
62) heptane	12.387	43	2680679	47.232	ppbV	96
63) cis-1,3-dichloropropene	13.033	75	2129134	47.075	ppbV	94
64) 4-methyl-2-pentanone	13.067	43	3194544	46.920	ppbV	98
65) trans-1,3-dichloropropene	13.667	75	1689843	46.438	ppbV	96
66) 1,1,2-trichloroethane	13.867	97	1489172	44.025	ppbV	93

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328245.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:44 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
68) toluene	14.183	91	4466519	48.409	ppbV	99
70) 2-methylthiophene	14.250	97	4472966	55.505	ppbV	100
71) 1,3-dichloropropane	14.208	76	2216451	55.555	ppbV	96
72) 2-hexanone	14.458	43	2996406	53.140	ppbV	98
73) 3-methylthiophene	14.442	97	4373849	54.635	ppbV	100
74) dibromochloromethane	14.625	129	1757972	51.083	ppbV	98
75) 1,2-dibromoethane	14.883	107	2082636	48.529	ppbV	100
76) butyl acetate	15.117	73	783357	57.917	ppbV	93
77) octane	15.217	85	1804706	53.183	ppbV	96
78) tetrachloroethene	15.342	166	1796313	45.530	ppbV	94
79) 1,1,1,2-tetrachloroethane	15.967	131	1397874	50.868	ppbV	97
80) chlorobenzene	15.992	112	3391683	47.634	ppbV	98
81) ethylbenzene	16.342	91	5475645	46.577	ppbV	97
82) 2-ethylthiophene	16.375	97	4732840	53.232	ppbV	95
83) m+p-xylene	16.500	91	8503703	89.464	ppbV	99
84) bromoform	16.567	173	1673646	51.458	ppbV	99
85) styrene	16.825	104	3847061	47.644	ppbV	99
86) 1,1,2,2-tetrachloroethane	16.925	83	3161571	48.868	ppbV	100
87) o-xylene	16.925	91	4108955	43.014	ppbV	99
88) 1,2,3-trichloropropane	17.033	75	2561455	53.987	ppbV	97
89) nonane	17.117	43	3815949	52.852	ppbV	93
91) isopropylbenzene	17.433	105	5549116	47.743	ppbV	94
92) bromobenzene	17.517	77	3329387	52.803	ppbV	97
93) 2-chlorotoluene	17.842	126	1746132	53.491	ppbV	87
94) n-propylbenzene	17.875	120	2000453	52.838	ppbV	81
95) 4-chlorotoluene	17.900	126	1664635	52.509	ppbV	89
96) 4-ethyl toluene	17.992	105	5745968	44.873	ppbV	94
97) 1,3,5-trimethylbenzene	18.058	105	4860435	43.528	ppbV	93
98) tert-butylbenzene	18.400	119	4453529	41.455	ppbV	92
99) 1,2,4-trimethylbenzene	18.400	105	4330138	38.069	ppbV	92
100) decane	18.483	57	4495314	47.508	ppbV	94
101) Benzyl Chloride	18.525	91	3762834	52.279	ppbV	95
102) 1,3-dichlorobenzene	18.533	146	3246081	42.655	ppbV	99
103) 1,4-dichlorobenzene	18.592	146	3297446	43.458	ppbV	98
104) sec-butylbenzene	18.625	105	6760628	44.644	ppbV	92
105) 1,2,3-trimethylbenzene	18.758	105	4020360	38.964	ppbV	98
106) p-isopropyltoluene	18.750	119	5312768	41.102	ppbV	91
107) 1,2-dichlorobenzene	18.875	146	3219938	44.614	ppbV	99
108) n-butylbenzene	19.092	91	5525960	47.227	ppbV	96
109) indan	18.925	117	4787548	44.014	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328245.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:44 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

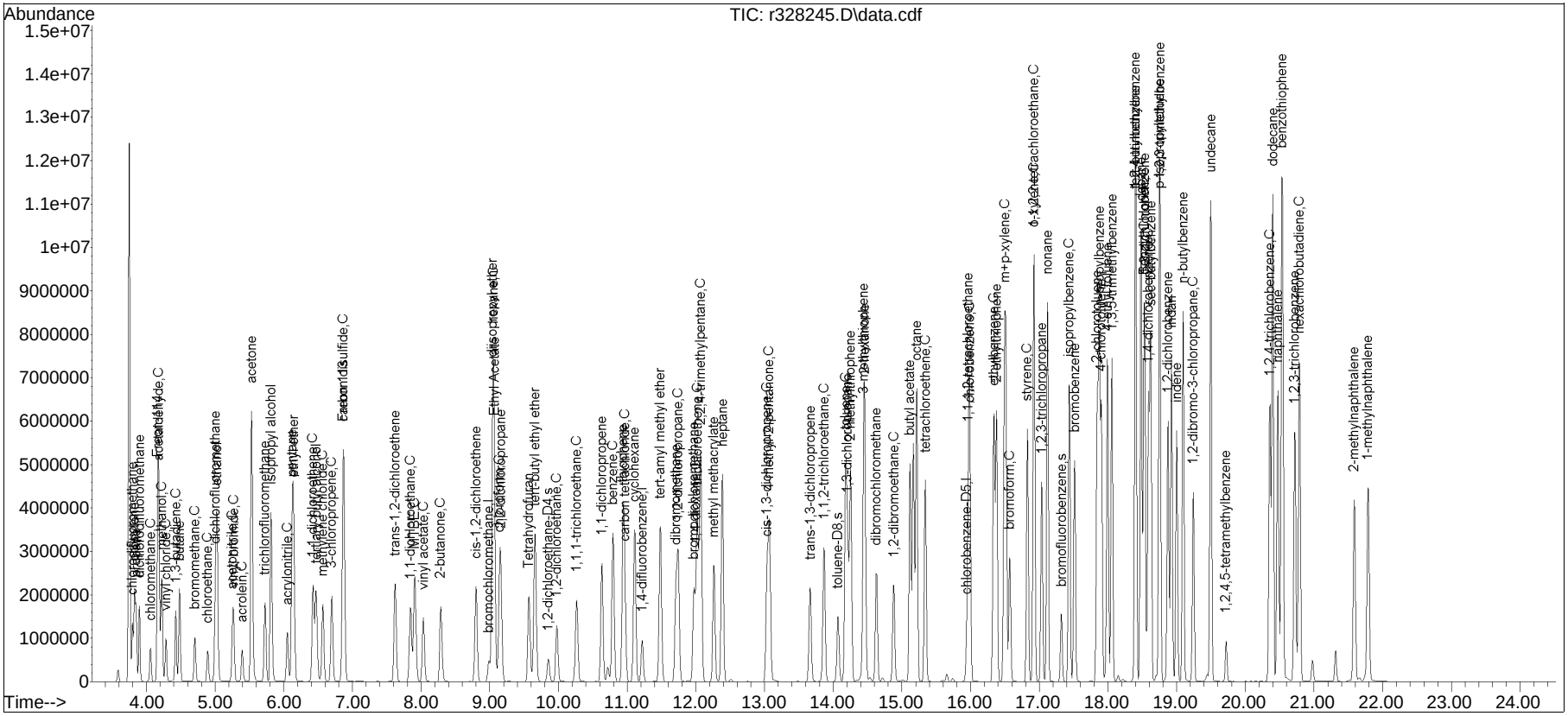
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
110) indene	19.000	115	3523230	47.464	ppbV	99
111) 1,2-dibromo-3-chloropr...	19.242	75	1335019	50.251	ppbV	96
112) undecane	19.500	57	4865474	45.589	ppbV	97
113) 1,2,4,5-tetramethylben...	19.717	119	610507	50.979	ppbV	98
114) dodecane	20.400	57	4816493	44.155	ppbV	96
115) 1,2,4-trichlorobenzene	20.358	180	2961094	45.923	ppbV	97
116) naphthalene	20.475	128	6856733	52.208	ppbV	99
117) 1,2,3-trichlorobenzene	20.717	180	2682245	53.503	ppbV	95
118) benzothiophene	20.533	134	12100061	42.498	ppbV	96
119) hexachlorobutadiene	20.783	225	2321596	38.379	ppbV	93
120) 2-methylnaphthalene	21.583	142	3114209	50.650	ppbV	98
121) 1-methylnaphthalene	21.783	142	3408848	41.805	ppbV	98

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328245.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:44 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

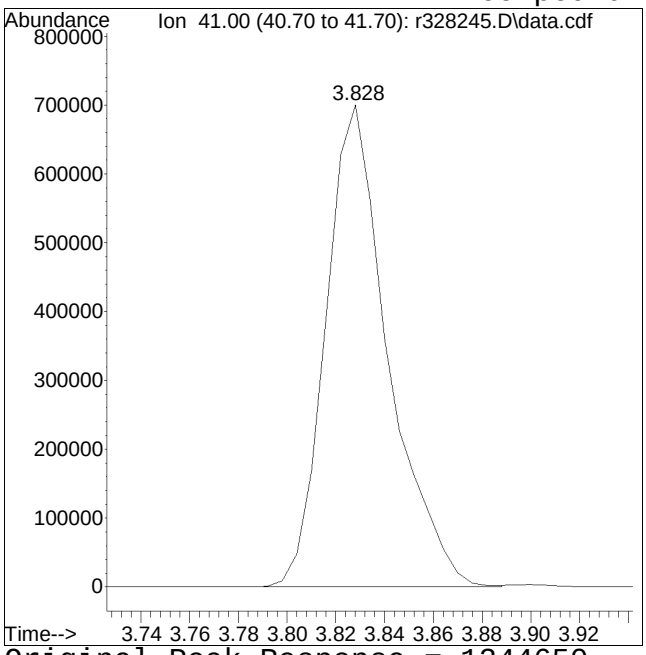


Manual Integration Report

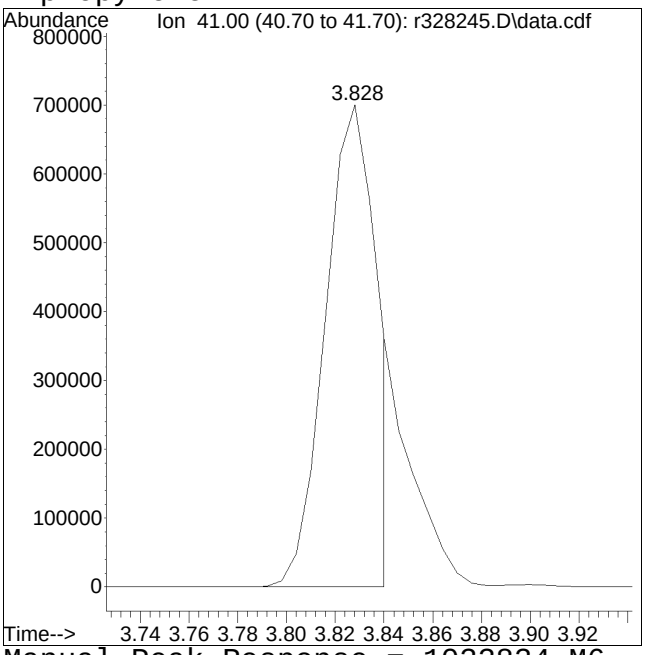
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328245.D
Date Inj'd : 12/30/2020 0:7: 7
Sample : ITO15-SIMSTD050

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 1244650



Manual Peak Response = 1033834 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328246.D
Acq On : 30 Dec 2023 8:39 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-LLSTD100
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:52 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	341165	10.000	ppbV	0.00
Standard Area = 296369			Recovery = 115.11%			
43) 1,4-difluorobenzene	11.220	114	1060667	10.000	ppbV	0.00
Standard Area = 942248			Recovery = 112.57%			
67) chlorobenzene-D5	15.950	54	127901	10.000	ppbV	# 0.00
Standard Area = 136951			Recovery = 93.39%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.858	65	355655	7.406	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 74.06%			
69) toluene-D8	14.067	98	1332888	11.169	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.69%			
90) bromofluorobenzene	17.325	95	824777	10.673	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 106.73%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.804	51	2244494	78.379	ppbV	94
3) propylene	3.834	41	1968403M6	78.500	ppbV	
4) propane	3.858	29	1793998	75.249	ppbV	93
5) dichlorodifluoromethane	3.900	85	2508951	60.696	ppbV	99
6) chloromethane	4.062	50	1486140	74.073	ppbV	99
7) Freon-114	4.170	85	2935921	56.777	ppbV	96
8) methanol	4.230	31	3313254	342.631	ppbV	99
9) vinyl chloride	4.290	62	1769804	63.374	ppbV	100
10) 1,3-butadiene	4.434	54	1343955	69.335	ppbV	96
11) butane	4.488	43	3204309	75.116	ppbV	97
12) acetaldehyde	4.188	29	2943261	281.201	ppbV	86
13) bromomethane	4.710	94	1299538	64.579	ppbV	99
14) chloroethane	4.896	64	947246	66.557	ppbV	99
15) ethanol	5.040	31	4121460	288.842	ppbV #	84
16) dichlorofluoromethane	5.010	67	2610364	53.427	ppbV	99
17) vinyl bromide	5.273	106	1787752	78.709	ppbV	98
18) acrolein	5.400	56	1069311	85.720	ppbV	97
19) acetone	5.537	43	12345439	336.204	ppbV	94
20) acetonitrile	5.263	41	2536107	99.679	ppbV	97
21) trichlorofluoromethane	5.733	101	2656238	61.397	ppbV	100
22) isopropyl alcohol	5.827	45	9356841	206.979	ppbV	99
23) acrylonitrile	6.057	53	1847813	89.723	ppbV	99
24) pentane	6.127	43	5015888	94.115	ppbV	97

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328246.D
Acq On : 30 Dec 2023 8:39 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-LLSTD100
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:52 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) ethyl ether	6.147	31	4002127	79.158	ppbV	#	94
26) 1,1-dichloroethene	6.430	61	2849850	68.810	ppbV		92
27) tertiary butyl alcohol	6.478	59	4205285	76.572	ppbV		98
28) methylene chloride	6.574	49	2210504	81.472	ppbV		97
29) 3-chloropropene	6.706	41	3566244	89.110	ppbV		90
30) carbon disulfide	6.874	76	6123557	78.719	ppbV		98
31) Freon 113	6.874	101	3251690	67.624	ppbV		97
32) trans-1,2-dichloroethene	7.625	61	3088570	73.174	ppbV		93
33) 1,1-dichloroethane	7.850	63	4070692	75.035	ppbV		97
34) MTBE	7.908	73	5505191	79.357	ppbV		97
35) vinyl acetate	8.033	43	5300231	93.983	ppbV		100
36) 2-butanone	8.292	43	5378970	88.362	ppbV		98
37) cis-1,2-dichloroethene	8.800	61	2873643	71.882	ppbV		90
38) Ethyl Acetate	9.075	61	830004	75.999	ppbV		70
39) chloroform	9.150	83	3052511	70.693	ppbV		99
40) Tetrahydrofuran	9.567	42	3347409	91.652	ppbV		99
41) 2,2-dichloropropane	9.167	77	2506104	73.222	ppbV		94
42) 1,2-dichloroethane	9.975	62	1899307	60.274	ppbV	#	89
44) hexane	9.050	57	3425165	68.844	ppbV		94
45) diisopropyl ether	9.050	87	1986425	80.458	ppbV		99
46) tert-butyl ethyl ether	9.658	59	6720609	74.863	ppbV		93
48) 1,1,1-trichloroethane	10.267	97	2679313	68.195	ppbV	#	96
49) 1,1-dichloropropene	10.633	75	3136773	87.737	ppbV		90
50) benzene	10.793	78	7435115	84.276	ppbV		98
51) thiophene	10.947	84	5576492	92.487	ppbV		93
52) carbon tetrachloride	10.967	117	2138173	65.475	ppbV		99
53) cyclohexane	11.113	56	4035273	79.088	ppbV		95
54) tert-amyl methyl ether	11.487	73	6780647	87.093	ppbV		99
55) dibromomethane	11.713	93	1895438	78.456	ppbV		99
56) 1,2-dichloropropane	11.747	63	2820825	76.250	ppbV		97
57) bromodichloromethane	11.973	83	3208852	77.141	ppbV		99
58) 1,4-dioxane	12.007	88	1694223	83.835	ppbV		91
59) trichloroethene	12.027	130	2726154	75.837	ppbV		99
60) 2,2,4-trimethylpentane	12.073	57	11232340	72.298	ppbV		99
61) methyl methacrylate	12.267	41	3110486	85.896	ppbV		97
62) heptane	12.387	43	4950370	85.308	ppbV		95
63) cis-1,3-dichloropropene	13.042	75	3943706	85.281	ppbV		92
64) 4-methyl-2-pentanone	13.075	43	5921760	85.067	ppbV		96
65) trans-1,3-dichloropropene	13.667	75	3122095	83.915	ppbV		94
66) 1,1,2-trichloroethane	13.867	97	2706486	78.256	ppbV		89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328246.D
Acq On : 30 Dec 2023 8:39 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-LLSTD100
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:52 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
68)	toluene	14.183	91	7768450	86.938	ppbV		100
70)	2-methylthiophene	14.258	97	7700082	98.662	ppbV		100
71)	1,3-dichloropropane	14.217	76	3968513	102.708	ppbV		95
72)	2-hexanone	14.467	43	5106444	93.510	ppbV		97
73)	3-methylthiophene	14.442	97	7263202	93.681	ppbV		100
74)	dibromochloromethane	14.633	129	2992257	89.779	ppbV		98
75)	1,2-dibromoethane	14.883	107	3527592	84.876	ppbV		98
76)	butyl acetate	15.117	73	1436008	109.629	ppbV		89
77)	octane	15.217	85	3185584	96.932	ppbV		98
78)	tetrachloroethene	15.342	166	2877717	75.315	ppbV		92
79)	1,1,1,2-tetrachloroethane	15.975	131	2232440	83.883	ppbV		99
80)	chlorobenzene	15.992	112	5392307	78.197	ppbV		96
81)	ethylbenzene	16.342	91	9453255	83.030	ppbV		97
82)	2-ethylthiophene	16.383	97	7801866	90.609	ppbV		95
83)	m+p-xylene	16.508	91	13866482	150.635	ppbV		99
84)	bromoform	16.575	173	2696562	85.608	ppbV		98
85)	styrene	16.833	104	6551410	83.778	ppbV		97
86)	1,1,2,2-tetrachloroethane	16.925	83	4969433	79.313	ppbV		100
87)	o-xylene	16.925	91	6310967	68.216	ppbV		96
88)	1,2,3-trichloropropane	17.042	75	4511540	98.185	ppbV		95
89)	nonane	17.125	43	6532923	93.430	ppbV		94
91)	isopropylbenzene	17.442	105	8857724	78.692	ppbV		91
92)	bromobenzene	17.517	77	5668549	92.829	ppbV		98
93)	2-chlorotoluene	17.842	126	3000242	94.902	ppbV		76
94)	n-propylbenzene	17.875	120	3242102	88.423	ppbV		74
95)	4-chlorotoluene	17.908	126	2949939	96.082	ppbV		80
96)	4-ethyl toluene	17.992	105	9109851	73.460	ppbV		92
97)	1,3,5-trimethylbenzene	18.058	105	7719236	71.382	ppbV		91
98)	tert-butylbenzene	18.400	119	6413197	61.640	ppbV	#	88
99)	1,2,4-trimethylbenzene	18.408	105	6286301	57.067	ppbV		99
100)	decane	18.483	57	7371203	80.438	ppbV		95
101)	Benzyl Chloride	18.525	91	6246562	89.613	ppbV		94
102)	1,3-dichlorobenzene	18.542	146	5246346	71.184	ppbV		97
103)	1,4-dichlorobenzene	18.592	146	5005581	68.118	ppbV		98
104)	sec-butylbenzene	18.625	105	10245494	69.860	ppbV	#	86
105)	1,2,3-trimethylbenzene	18.758	105	5908948	59.133	ppbV		96
106)	p-isopropyltoluene	18.750	119	7356056	58.762	ppbV	#	89
107)	1,2-dichlorobenzene	18.875	146	5201432	74.416	ppbV		98
108)	n-butylbenzene	19.100	91	9014257	79.549	ppbV		96
109)	indan	18.925	117	7388185	70.135	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328246.D
Acq On : 30 Dec 2023 8:39 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-LLSTD100
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:52 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default - All compounds listed

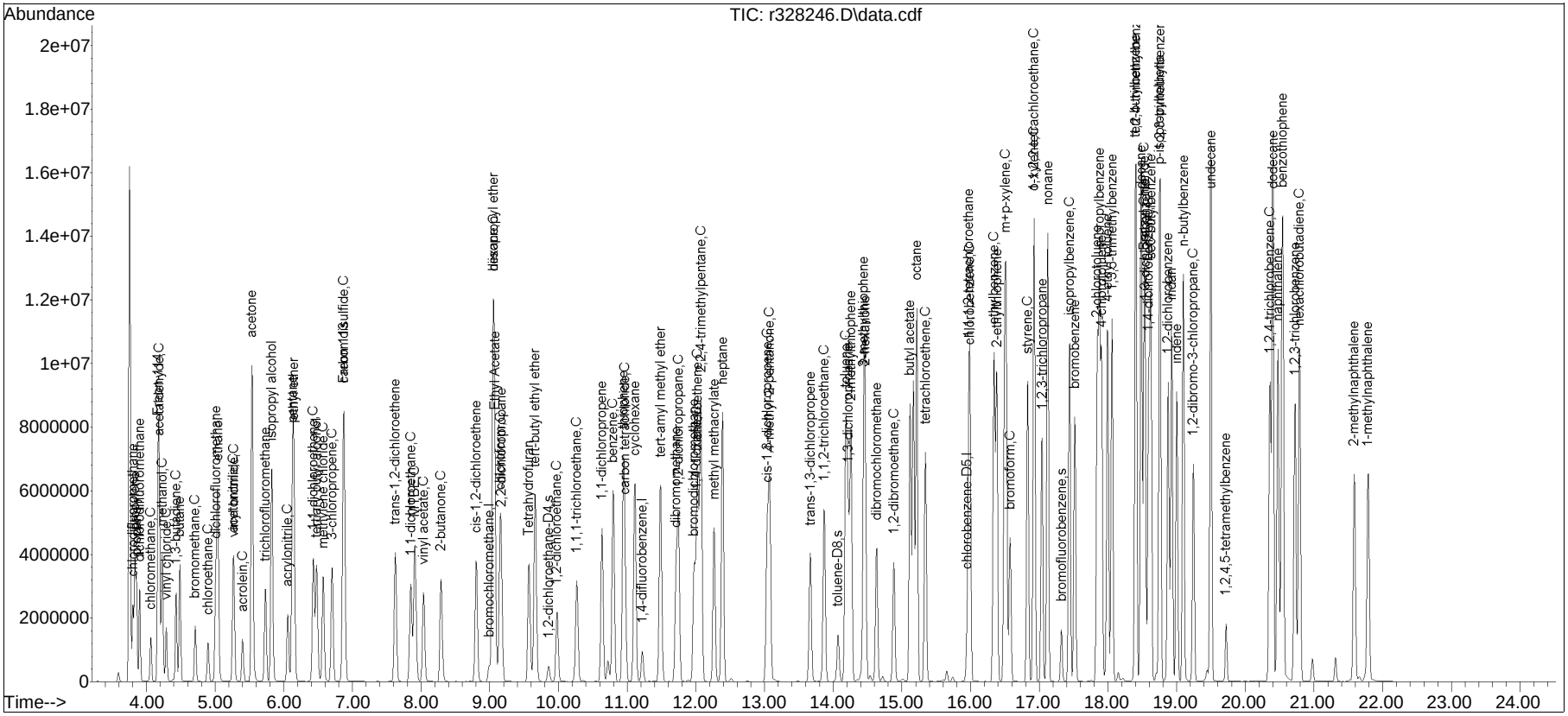
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
110) indene	19.000	115	5780229	80.406	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.242	75	2187817	85.033	ppbV		94
112) undecane	19.500	57	7812034	75.581	ppbV		98
113) 1,2,4,5-tetramethylben...	19.717	119	1161096	100.111	ppbV		96
114) dodecane	20.400	57	7846104	74.271	ppbV		100
115) 1,2,4-trichlorobenzene	20.358	180	4599658	73.658	ppbV		97
116) naphthalene	20.475	128	11062800	86.976	ppbV		100
117) 1,2,3-trichlorobenzene	20.725	180	4360711	89.816	ppbV		98
118) benzothiophene	20.542	134	16213482	58.799	ppbV	#	92
119) hexachlorobutadiene	20.783	225	3457567	59.019	ppbV		92
120) 2-methylnaphthalene	21.583	142	4942059	82.997	ppbV		97
121) 1-methylnaphthalene	21.783	142	5121967	64.859	ppbV		97

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

Sub List : Default - All compounds listed23\12\1230T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328246.D
Acq On : 30 Dec 2023 8:39 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-LLSTD100
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:34:52 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:30:53 2023
Response via : Initial Calibration

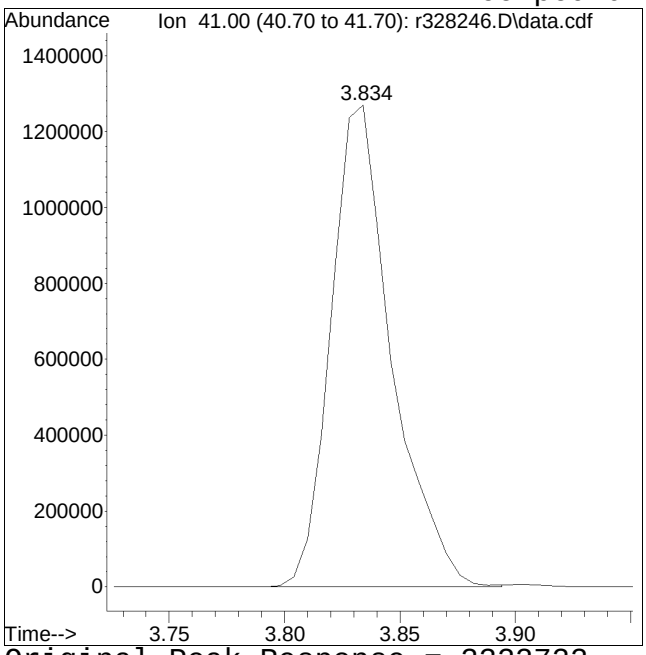


Manual Integration Report

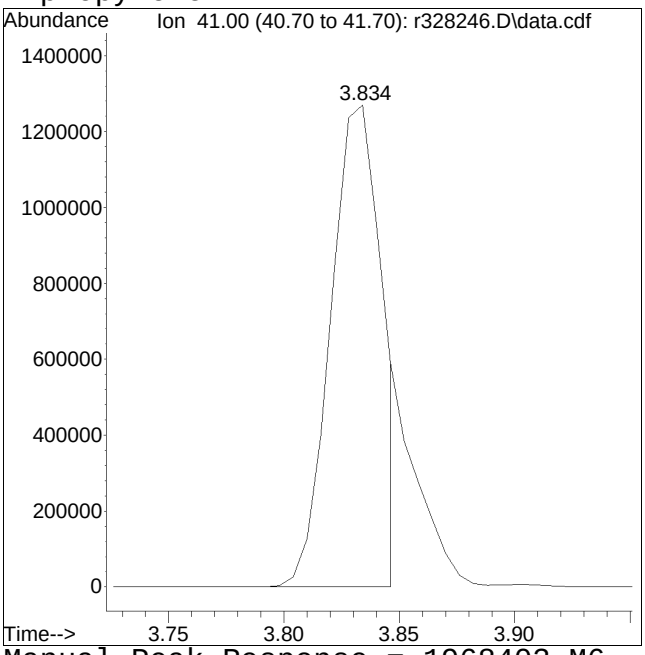
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328246.D
Date Inj'd : 12/30/2020 0:8: 9
Sample : ITO15-LLSTD100

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:34 am

Compound #3: propylene



Original Peak Response = 2322722



Manual Peak Response = 1968403 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	103	-0.03
2		chlorodifluoromethane	0.904	0.794	12.2	97	-0.02
3		propylene	0.687	0.768	-11.8	107	-0.02
4		propane	0.696	0.619	11.1	91	-0.02
5		dichlorodifluoromethane	1.164	0.948	18.6	80	-0.01
6	C	chloromethane	0.574	0.500	12.9	87	-0.01
7		Freon-114	1.428	1.326	7.1	90	-0.02
8	C	methanol	0.274	0.207	24.5	75	-0.02
9	C	vinyl chloride	0.783	0.620	20.8	78	-0.02
10	C	1,3-butadiene	0.545	0.513	5.9	93	-0.02
11		butane	1.287	1.126	12.5	92	-0.02
13	C	bromomethane	0.558	0.475	14.9	83	-0.02
14	C	chloroethane	0.402	0.330	17.9	81	-0.02
15		ethanol	0.398	0.400	-0.5	98	-0.02
16		dichlorofluoromethane	1.368	0.994	27.3	71	-0.02
17	C	vinyl bromide	0.648	0.531	18.1	82	-0.02
18	C	acrolein	0.367	0.266	27.5	75	-0.02
19		acetone	1.066	1.052	1.3	100	-0.02
20	C	acetonitrile	0.785	0.665	15.3	92	-0.02
21		trichlorofluoromethane	1.212	0.994	18.0	80	-0.02
22		isopropyl alcohol	1.300	1.337	-2.8	104	-0.02
23	C	acrylonitrile	0.618	0.604	2.3	103	-0.02
24		pentane	1.654	1.689	-2.1	111	-0.03
25		ethyl ether	1.407	1.120	20.4	78	-0.02
26	C	1,1-dichloroethene	1.170	1.058	9.6	89	-0.02
27		tertiary butyl alcohol	1.552	1.429	7.9	91	-0.02
28	C	methylene chloride	0.778	0.784	-0.8	101	-0.02
29	C	3-chloropropene	1.164	1.397	-20.0	122	-0.03
30	C	carbon disulfide	2.154	2.378	-10.4	107	-0.02
31		Freon 113	1.359	1.315	3.2	96	-0.02
32		trans-1,2-dichloroethene	1.201	1.140	5.1	95	-0.03
33	C	1,1-dichloroethane	1.541	1.448	6.0	94	-0.02
34	C	MTBE	1.987	2.118	-6.6	107	-0.03
35	C	vinyl acetate	1.670	1.680	-0.6	104	-0.03
36	C	2-butanone	1.719	1.877	-9.2	108	-0.02
37		cis-1,2-dichloroethene	1.123	1.041	7.3	91	-0.03
38		Ethyl Acetate	0.299	0.325	-8.7	104	-0.03
39	C	chloroform	1.214	1.136	6.4	92	-0.03
40		Tetrahydrofuran	1.067	1.206	-13.0	116	-0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.989	0.895	9.5	92	-0.03
42	C	1,2-dichloroethane	0.901	0.684	24.1	76	-0.03
43	I	1,4-difluorobenzene	1.000	1.000	0.0	106	-0.03
44	C	hexane	0.450	0.433	3.8	98	-0.03
45		diisopropyl ether	0.234	0.218	6.8	99	-0.03
46		tert-butyl ethyl ether	0.836	0.715	14.5	90	-0.03
47	s	1,2-dichloroethane-D4	0.434	0.349	19.6	82	-0.03
48	C	1,1,1-trichloroethane	0.352	0.283	19.6	81	-0.03
49		1,1-dichloropropene	0.343	0.349	-1.7	110	-0.03
50	C	benzene	0.822	0.808	1.7	103	-0.03
52	C	carbon tetrachloride	0.281	0.249	11.4	86	-0.03
53		cyclohexane	0.472	0.455	3.6	100	-0.03
54		tert-amyl methyl ether	0.736	0.738	-0.3	107	-0.03
55		dibromomethane	0.226	0.206	8.8	96	-0.03
56	C	1,2-dichloropropane	0.333	0.320	3.9	98	-0.03
57		bromodichloromethane	0.365	0.372	-1.9	101	-0.03
58	C	1,4-dioxane	0.183	0.193	-5.5	107	-0.03
59	C	trichloroethene	0.326	0.302	7.4	95	-0.02
60	C	2,2,4-trimethylpentane	1.505	1.422	5.5	103	-0.02
61		methyl methacrylate	0.322	0.361	-12.1	112	-0.03
62		heptane	0.536	0.602	-12.3	117	-0.03
63	C	cis-1,3-dichloropropene	0.405	0.432	-6.7	105	-0.03
64	C	4-methyl-2-pentanone	0.627	0.708	-12.9	115	-0.02
65		trans-1,3-dichloropropene	0.319	0.330	-3.4	100	-0.02
66	C	1,1,2-trichloroethane	0.311	0.296	4.8	96	-0.03
67	I	chlorobenzene-D5	1.000	1.000	0.0	88	-0.02
68	C	toluene	6.900	7.433	-7.7	94	-0.03
69	s	toluene-D8	9.601	10.658	-11.0	100	-0.03
71		1,3-dichloropropane	3.149	3.599	-14.3	105	-0.03
72		2-hexanone	3.981	5.433	-36.5#	112	-0.03
74		dibromochloromethane	2.401	3.094	-28.9	104	-0.02
75	C	1,2-dibromoethane	3.062	3.607	-17.8	98	-0.02
76		butyl acetate	1.031	1.238	-20.1	106	-0.02
77		octane	2.685	2.874	-7.0	98	-0.03
78	C	tetrachloroethene	2.826	3.125	-10.6	92	-0.03
79		1,1,1,2-tetrachloroethane	2.066	2.277	-10.2	96	-0.02
80	C	chlorobenzene	5.159	6.104	-18.3	100	-0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
81	C	ethylbenzene	8.548	9.266	-8.4	91	-0.02
83	C	m+p-xylene	6.839	7.546	-10.3	92	-0.02
84	C	bromoform	2.136	3.024	-41.6#	108	-0.02
85	C	styrene	5.635	6.778	-20.3	97	-0.02
86	C	1,1,2,2-tetrachloroethane	4.649	5.564	-19.7	100	-0.02
87	C	o-xylene	6.786	7.543	-11.2	92	-0.03
88		1,2,3-trichloropropane	3.656	4.251	-16.3	104	-0.02
89		nonane	5.532	6.648	-20.2	107	-0.02
90	s	bromofluorobenzene	6.100	6.654	-9.1	97	-0.02
91	C	isopropylbenzene	8.659	10.303	-19.0	103	-0.02
92		bromobenzene	4.854	5.671	-16.8	104	-0.02
93		2-chlorotoluene	2.521	2.746	-8.9	98	-0.02
94		n-propylbenzene	2.861	3.247	-13.5	100	-0.02
95		4-chlorotoluene	2.426	2.704	-11.5	99	-0.02
96		4-ethyl toluene	8.944	11.427	-27.8	104	-0.02
97		1,3,5-trimethylbenzene	7.919	9.306	-17.5	97	-0.02
98		tert-butylbenzene	7.736	8.897	-15.0	96	-0.02
99		1,2,4-trimethylbenzene	7.645	9.188	-20.2	94	-0.02
100		decane	7.022	7.681	-9.4	94	-0.02
101	C	Benzyl Chloride	4.656	6.372	-36.9#	103	-0.02
102		1,3-dichlorobenzene	5.138	6.209	-20.8	95	-0.02
103	C	1,4-dichlorobenzene	5.128	6.160	-20.1	94	-0.02
104		sec-butylbenzene	11.022	12.883	-16.9	99	-0.02
106		p-isopropyltoluene	9.256	10.097	-9.1	91	-0.02
107		1,2-dichlorobenzene	5.022	5.797	-15.4	93	-0.02
108		n-butylbenzene	8.625	9.859	-14.3	98	-0.02
111	C	1,2-dibromo-3-chloropropane	1.885	2.201	-16.8	96	-0.02
112		undecane	7.695	8.760	-13.8	95	-0.02
114		dodecane	7.301	8.816	-20.8	94	-0.02
115	C	1,2,4-trichlorobenzene	4.182	5.133	-22.7	92	-0.03
116		naphthalene	9.880	11.660	-18.0	103	-0.03
117		1,2,3-trichlorobenzene	3.803	4.574	-20.3	106	-0.03
119	C	hexachlorobutadiene	3.994	4.413	-10.5	85	-0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 2

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.958	49	304227	10.000	ppbV	-0.03
Standard Area = 296369			Recovery = 102.65%			
43) 1,4-difluorobenzene	11.193	114	1000459	10.000	ppbV	-0.03
Standard Area = 942248			Recovery = 106.18%			
67) chlorobenzene-D5	15.925	54	120375	10.000	ppbV	-0.02
Standard Area = 136951			Recovery = 87.90%			
System Monitoring Compounds						
47) 1,2-dichloroethane-D4	9.825	65	349437	8.051	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 80.51%			
69) toluene-D8	14.042	98	1282899	11.101	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 111.01%			
90) bromofluorobenzene	17.300	95	800998	10.908	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.08%			
Target Compounds						Qvalue
2) chlorodifluoromethane	3.786	51	241656	8.783	ppbV	95
3) propylene	3.816	41	233655M6	11.179	ppbV	
4) propane	3.840	29	188211	8.894	ppbV	91
5) dichlorodifluoromethane	3.888	85	288338	8.140	ppbV	99
6) chloromethane	4.050	50	151969	8.705	ppbV	98
7) Freon-114	4.152	85	403473	9.289	ppbV	95
8) methanol	4.206	31	314885	37.736	ppbV	98
9) vinyl chloride	4.272	62	188755	7.927	ppbV	99
10) 1,3-butadiene	4.416	54	156185	9.417	ppbV	100
11) butane	4.470	43	342672	8.754	ppbV	97
13) bromomethane	4.692	94	144523	8.520	ppbV	99
14) chloroethane	4.878	64	100382	8.217	ppbV	100
15) ethanol	5.004	31	608542	50.204	ppbV	88
16) dichlorofluoromethane	4.986	67	302255	7.265	ppbV	99
17) vinyl bromide	5.250	106	161594	8.193	ppbV	99
18) acrolein	5.380	56	80865	7.251	ppbV #	93
19) acetone	5.513	43	1599516	49.323	ppbV	98
20) acetonitrile	5.237	41	202315	8.476	ppbV	98
21) trichlorofluoromethane	5.710	101	302373	8.202	ppbV	100
22) isopropyl alcohol	5.790	45	1016691	25.703	ppbV	98
23) acrylonitrile	6.030	53	183713	9.767	ppbV	99
24) pentane	6.103	43	513988	10.213	ppbV	97
25) ethyl ether	6.127	31	340750	7.963	ppbV	95

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
26) 1,1-dichloroethene	6.406	61	321989	9.047	ppbV		94
27) tertiary butyl alcohol	6.448	59	434719	9.210	ppbV		96
28) methylene chloride	6.550	49	238473	10.071	ppbV		96
29) 3-chloropropene	6.676	41	425145	12.009	ppbV		92
30) carbon disulfide	6.850	76	723319	11.037	ppbV		97
31) Freon 113	6.850	101	399969	9.675	ppbV		98
32) trans-1,2-dichloroethene	7.600	61	346708	9.489	ppbV		95
33) 1,1-dichloroethane	7.825	63	440639	9.397	ppbV		98
34) MTBE	7.892	73	644216	10.658	ppbV		95
35) vinyl acetate	8.008	43	511214	10.064	ppbV		98
36) 2-butanone	8.267	43	571174	10.921	ppbV		99
37) cis-1,2-dichloroethene	8.775	61	316672	9.265	ppbV		94
38) Ethyl Acetate	9.042	61	98915	10.887	ppbV		90
39) chloroform	9.117	83	345670	9.358	ppbV		97
40) Tetrahydrofuran	9.550	42	366793	11.304	ppbV		98
41) 2,2-dichloropropane	9.133	77	272374	9.056	ppbV		97
42) 1,2-dichloroethane	9.950	62	208009	7.589	ppbV	#	92
44) hexane	9.025	57	433149	9.632	ppbV		82
45) diisopropyl ether	9.017	87	217991	9.316	ppbV		92
46) tert-butyl ethyl ether	9.633	59	715700	8.555	ppbV		97
48) 1,1,1-trichloroethane	10.242	97	283601	8.045	ppbV	#	97
49) 1,1-dichloropropene	10.607	75	349659	10.181	ppbV		93
50) benzene	10.767	78	808594	9.829	ppbV		95
52) carbon tetrachloride	10.940	117	248966	8.845	ppbV		98
53) cyclohexane	11.087	56	454775	9.634	ppbV		93
54) tert-amyl methyl ether	11.460	73	738199	10.031	ppbV		97
55) dibromomethane	11.680	93	206364	9.108	ppbV		95
56) 1,2-dichloropropane	11.713	63	320556	9.615	ppbV		98
57) bromodichloromethane	11.947	83	371955	10.199	ppbV		99
58) 1,4-dioxane	11.987	88	192928	10.553	ppbV		94
59) trichloroethene	12.000	130	302388	9.284	ppbV		97
60) 2,2,4-trimethylpentane	12.047	57	1422355	9.445	ppbV		97
61) methyl methacrylate	12.240	41	360901	11.211	ppbV		99
62) heptane	12.360	43	601962	11.228	ppbV		92
63) cis-1,3-dichloropropene	13.008	75	432569	10.669	ppbV		92
64) 4-methyl-2-pentanone	13.050	43	708723	11.303	ppbV		93
65) trans-1,3-dichloropropene	13.642	75	329995	10.346	ppbV		95
66) 1,1,2-trichloroethane	13.842	97	296162	9.510	ppbV		93
68) toluene	14.158	91	894728	10.773	ppbV		99
71) 1,3-dichloropropane	14.183	76	433260	11.430	ppbV		97

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default-ICV-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
72)	2-hexanone	14.442	43	653986	13.647	ppbV	91
74)	dibromochloromethane	14.608	129	372432	12.885	ppbV	100
75)	1,2-dibromoethane	14.858	107	434188	11.782	ppbV	100
76)	butyl acetate	15.100	73	148973	12.004	ppbV	91
77)	octane	15.192	85	345904	10.704	ppbV	91
78)	tetrachloroethene	15.317	166	376143	11.057	ppbV	97
79)	1,1,1,2-tetrachloroethane	15.950	131	274083	11.019	ppbV	98
80)	chlorobenzene	15.967	112	734721	11.831	ppbV	100
81)	ethylbenzene	16.317	91	1115400	10.840	ppbV	96
83)	m+p-xylene	16.483	91	1816805	22.069	ppbV	96
84)	bromoform	16.550	173	363978	14.158	ppbV	99
85)	styrene	16.808	104	815949	12.029	ppbV	99
86)	1,1,2,2-tetrachloroethane	16.900	83	669711	11.966	ppbV	100
87)	o-xylene	16.900	91	908008	11.117	ppbV	95
88)	1,2,3-trichloropropane	17.017	75	511753	11.628	ppbV	96
89)	nonane	17.100	43	800281	12.018	ppbV	89
91)	isopropylbenzene	17.417	105	1240182	11.898	ppbV	99
92)	bromobenzene	17.492	77	682681	11.684	ppbV	98
93)	2-chlorotoluene	17.825	126	330579	10.893	ppbV	98
94)	n-propylbenzene	17.850	120	390851	11.348	ppbV	88
95)	4-chlorotoluene	17.883	126	325490	11.147	ppbV	91
96)	4-ethyl toluene	17.975	105	1375470	12.776	ppbV	100
97)	1,3,5-trimethylbenzene	18.033	105	1120177	11.752	ppbV	99
98)	tert-butylbenzene	18.383	119	1070972	11.501	ppbV	100
99)	1,2,4-trimethylbenzene	18.383	105	1106060	12.019	ppbV	98
100)	decane	18.458	57	924546	10.939	ppbV	90
101)	Benzyl Chloride	18.500	91	767057	13.685	ppbV	98
102)	1,3-dichlorobenzene	18.517	146	747448	12.085	ppbV	99
103)	1,4-dichlorobenzene	18.567	146	741466	12.011	ppbV	97
104)	sec-butylbenzene	18.600	105	1550842	11.689	ppbV	99
106)	p-isopropyltoluene	18.733	119	1215434	10.909	ppbV	98
107)	1,2-dichlorobenzene	18.850	146	697801	11.542	ppbV	97
108)	n-butylbenzene	19.075	91	1186834	11.431	ppbV	100
111)	1,2-dibromo-3-chloropr...	19.225	75	264957	11.675	ppbV	98
112)	undecane	19.483	57	1054513	11.384	ppbV	93
114)	dodecane	20.383	57	1061213	12.074	ppbV	92
115)	1,2,4-trichlorobenzene	20.333	180	617886	12.275	ppbV	95
116)	naphthalene	20.450	128	1403586	11.801	ppbV	99
117)	1,2,3-trichlorobenzene	20.700	180	550635	12.028	ppbV	97
119)	hexachlorobutadiene	20.767	225	531171	11.048	ppbV	94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\r328243.D
Sub List : Default-ICV-AP2 - All compounds listed

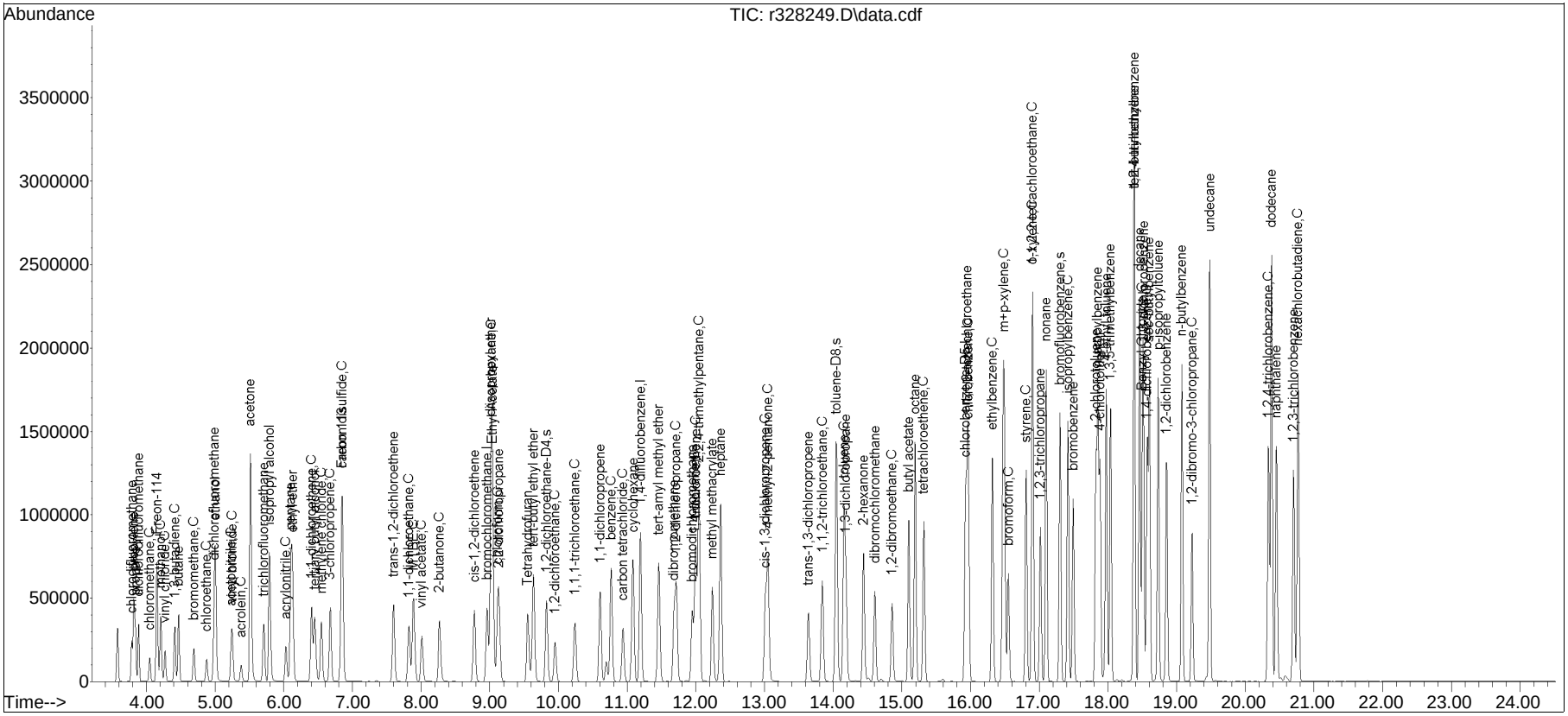
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

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

Sub List : Default-ICV-AP2 - All compounds listed30T_I\r328243.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\
Data File : r328249.D
Acq On : 31 Dec 2023 11:55 AM
Operator : AIRPIANO3:JMB
Sample : CTO15-LLSTD010
Misc : WG1874984
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 18 12:23:58 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230T_I\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

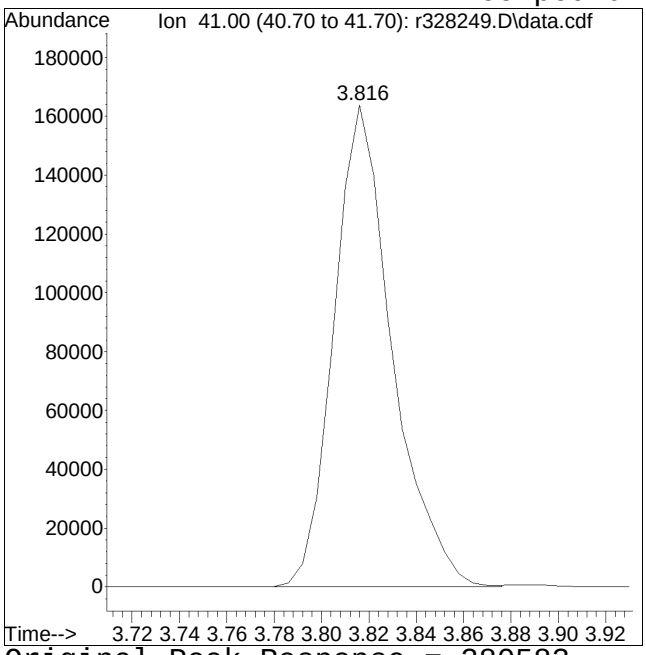


Manual Integration Report

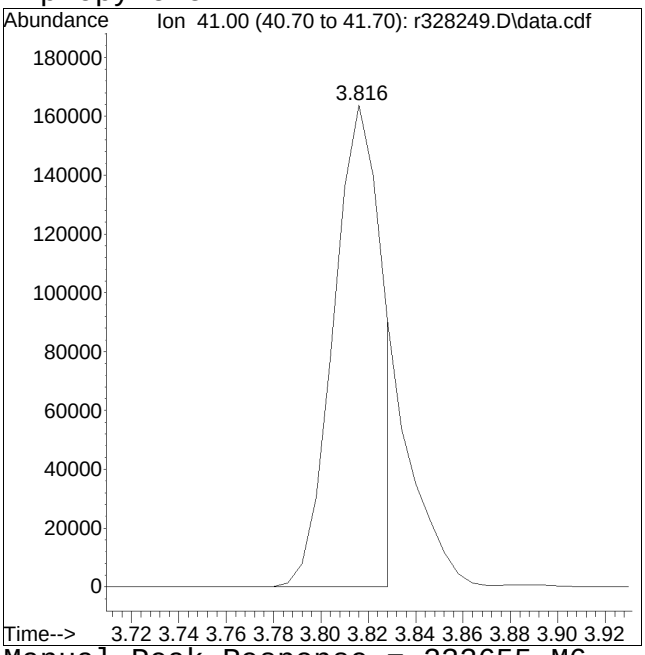
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328249.D
Date Inj'd : 12/31/2020 0:1: 5
Sample : CTO15-LLSTD010

Method : TFS3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 1/18/2024 12:23 pm

Compound #3: propylene



Original Peak Response = 280583



Manual Peak Response = 233655 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**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB17	**Calibration Date**	: 02/24/24 12:42		
Lab File ID	: R1738913	**Init. Calib. Date(s)**	: 01/07/24	01/08/24	
Sample No	: WG1888881-2	**Init. Calib. Times**	: 22:14	02:55	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	85	.02
chlorodifluoromethane	0.844	0.75	-	11.1	30	77	.02
propylene	0.471	0.368	-	21.9	30	74	.02
propane	0.624	0.557	-	10.7	30	80	.02
dichlorodifluoromethane	0.948	0.985	-	-3.9	30	87	.02
chloromethane	0.504	0.435	-	13.7	30	72	.02
Freon-114	1.154	1.112	-	3.6	30	80	.02
methanol	0.253	0.24	-	5.1	30	83	.02
vinyl chloride	0.523	0.511	-	2.3	30	82	.02
1,3-butadiene	0.45	0.391	-	13.1	30	74	.02
butane	0.77	0.677	-	12.1	30	78	.02
bromomethane	0.429	0.426	-	0.7	30	83	.02
chloroethane	0.241	0.232	-	3.7	30	82	.02
ethanol	0.428	0.389	-	9.1	30	75	.03
dichlorofluoromethane	0.869	0.898	-	-3.3	30	91	.03
vinyl bromide	0.412	0.397	-	3.6	30	81	.03
acrolein	0.249	0.215	-	13.7	30	79	.03
acetone	0.609	0.549	-	9.9	30	81	.03
acetonitrile	0.425	0.404	-	4.9	30	85	.03
trichlorofluoromethane	0.75	0.837	-	-11.6	30	94	.03
isopropyl alcohol	0.791	0.651	-	17.7	30	69	.03
acrylonitrile	0.462	0.386	-	16.5	30	75	.03
pentane	0.91	0.959	-	-5.4	30	94	.03
ethyl ether	0.953	1.029	-	-8	30	101	.03
1,1-dichloroethene	0.676	0.69	-	-2.1	30	86	.03
tertiary butyl alcohol	0.921	0.755	-	18	30	71	.03
methylene chloride	0.67	0.677	-	-1	30	91	.03
3-chloropropene	0.749	0.639	-	14.7	30	73	.03
carbon disulfide	1.668	1.569	-	5.9	30	77	.04
Freon 113	0.971	0.955	-	1.6	30	82	.03
trans-1,2-dichloroethene	0.704	0.685	-	2.7	30	81	.03
1,1-dichloroethane	0.889	0.862	-	3	30	81	.03
MTBE	1.313	1.092	-	16.8	30	70	.03
vinyl acetate	1.208	1.085	-	10.2	30	75	.03
2-butanone	1.222	1.071	-	12.4	30	73	.03
cis-1,2-dichloroethene	0.662	0.645	-	2.6	30	81	.04
Ethyl Acetate	0.17	0.161	-	5.3	30	80	.02
chloroform	0.94	0.976	-	-3.8	30	87	.03
Tetrahydrofuran	0.693	0.6	-	13.4	30	72	.03
2,2-dichloropropane	0.736	0.7	-	4.9	30	82	.03
1,2-dichloroethane	0.536	0.573	-	-6.9	30	92	.03
1,4-difluorobenzene	1	1	-	0	30	87	.03
hexane	0.331	0.311	-	6	30	83	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB17	**Calibration Date**	: 02/24/24 12:42		
Lab File ID	: R1738913	**Init. Calib. Date(s)**	: 01/07/24	01/08/24	
Sample No	: WG1888881-2	**Init. Calib. Times**	: 22:14	02:55	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.174	0.149	-	14.4	30	78	.03
tert-butyl ethyl ether	0.58	0.489	-	15.7	30	76	.03
1,1,1-trichloroethane	0.288	0.294	-	-2.1	30	89	.03
1,1-dichloropropene	0.312	0.275	-	11.9	30	79	.03
benzene	0.741	0.662	-	10.7	30	77	.03
carbon tetrachloride	0.271	0.304	-	-12.2	30	94	.03
cyclohexane	0.354	0.329	-	7.1	30	82	.03
tert-amyl methyl ether	0.584	0.441	-	24.5	30	68	.03
dibromomethane	0.198	0.2	-	-1	30	91	.03
1,2-dichloropropane	0.228	0.215	-	5.7	30	80	.04
bromodichloromethane	0.348	0.369	-	-6	30	90	.03
1,4-dioxane	0.143	0.125	-	12.6	30	75	.03
trichloroethene	0.282	0.279	-	1.1	30	85	.03
2,2,4-trimethylpentane	1.099	0.993	-	9.6	30	83	.03
methyl methacrylate	0.247	0.218	-	11.7	30	75	.03
heptane	0.466	0.398	-	14.6	30	73	.03
cis-1,3-dichloropropene	0.371	0.311	-	16.2	30	71	.03
4-methyl-2-pentanone	0.552	0.461	-	16.5	30	70	.03
trans-1,3-dichloropropene	0.29	0.249	-	14.1	30	71	.03
1,1,2-trichloroethane	0.253	0.241	-	4.7	30	81	.03
chlorobenzene-D5	1	1	-	0	30	93	.02
toluene	5.498	4.852	-	11.7	30	81	.03
1,3-dichloropropane	2.76	2.361	-	14.5	30	82	.03
2-hexanone	3.566	2.821	-	20.9	30	68	.02
dibromochloromethane	2.321	2.54	-	-9.4	30	96	.03
1,2-dibromoethane	2.826	2.502	-	11.5	30	80	.03
butyl acetate	0.635	0.487	-	23.3	30	70	.03
octane	1.996	1.721	-	13.8	30	84	.03
tetrachloroethene	2.195	2.016	-	8.2	30	84	.03
1,1,1,2-tetrachloroethane	1.906	1.889	-	0.9	30	93	.03
chlorobenzene	4.722	4.133	-	12.5	30	80	.03
ethylbenzene	6.927	6.225	-	10.1	30	81	.02
m+p-xylene	5.488	4.985	-	9.2	30	82	.03
bromoform	1.794	1.97	-	-9.8	30	94	.02
styrene	4.644	3.882	-	16.4	30	73	.03
1,1,2,2-tetrachloroethane	4.138	3.888	-	6	30	85	.02
o-xylene	5.492	5.018	-	8.6	30	82	.02
1,2,3-trichloropropane	3.301	2.794	-	15.4	30	81	.02
nonane	5.239	3.98	-	24	30	71	.02
isopropylbenzene	7.347	6.298	-	14.3	30	82	.03
bromobenzene	4.25	3.588	-	15.6	30	81	.02
2-chlorotoluene	2.139	1.869	-	12.6	30	83	.02
n-propylbenzene	2.332	2.101	-	9.9	30	87	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Calibration Date**	: 02/24/24 12:42
Lab File ID	: R1738913	**Init. Calib. Date(s)**	: 01/07/24 01/08/24
Sample No	: WG1888881-2	**Init. Calib. Times**	: 22:14 02:55
Channel	:		

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.046	1.83	-	10.6	30	84	.02
4-ethyl toluene	7.571	6.66	-	12	30	80	.03
1,3,5-trimethylbenzene	6.529	6.196	-	5.1	30	86	.02
tert-butylbenzene	6.472	5.749	-	11.2	30	84	.02
1,2,4-trimethylbenzene	6.497	5.54	-	14.7	30	76	.02
decane	4.934	4.189	-	15.1	30	81	.03
Benzyl Chloride	3.616	3.004	-	16.9	30	73	.02
1,3-dichlorobenzene	3.907	3.575	-	8.5	30	81	.02
1,4-dichlorobenzene	3.804	3.453	-	9.2	30	79	.02
sec-butylbenzene	9.21	7.603	-	17.4	30	79	.03
p-isopropyltoluene	7.833	6.773	-	13.5	30	82	.02
1,2-dichlorobenzene	3.724	3.344	-	10.2	30	81	.03
n-butylbenzene	6.717	5.657	-	15.8	30	81	.03
1,2-dibromo-3-chloropropan	1.541	1.324	-	14.1	30	80	.02
undecane	5.267	4.271	-	18.9	30	77	.03
dodecane	5.065	3.904	-	22.9	30	71	.06
1,2,4-trichlorobenzene	2.469	1.886	-	23.6	30	64	.03
naphthalene	6.859	5.884	-	14.2	30	83	.03
1,2,3-trichlorobenzene	2.15	1.655	-	23	30	74	.04
hexachlorobutadiene	2.381	2.106	-	11.5	30	77	.05

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRPIANO3	**Calibration Date**	: 02/25/24 13:51		
Lab File ID	: R329314	**Init. Calib. Date(s)**	: 12/30/23	12/30/23	
Sample No	: WG1889054-2	**Init. Calib. Times**	: 15:53	20:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	95	-.05
chlorodifluoromethane	0.904	0.915	-	-1.2	30	103	-.02
propylene	0.687	0.726	-	-5.7	30	93	-.02
propane	0.696	0.711	-	-2.2	30	96	-.02
dichlorodifluoromethane	1.164	1.152	-	1	30	90	-.02
chloromethane	0.574	0.596	-	-3.8	30	96	-.02
Freon-114	1.428	1.624	-	-13.7	30	101	-.02
methanol	0.274	0.278	-	-1.5	30	93	-.02
vinyl chloride	0.783	0.885	-	-13	30	102	-.02
1,3-butadiene	0.545	0.667	-	-22.4	30	111	-.03
butane	1.287	1.184	-	8	30	90	-.02
bromomethane	0.558	0.638	-	-14.3	30	102	-.03
chloroethane	0.402	0.436	-	-8.5	30	99	-.03
ethanol	0.398	0.472	-	-18.6	30	107	-.03
dichlorofluoromethane	1.368	1.34	-	2	30	88	-.03
vinyl bromide	0.648	0.62	-	4.3	30	88	-.03
acrolein	0.367	0.329	-	10.4	30	85	-.03
acetone	1.066	0.915	-	14.2	30	80	-.03
acetonitrile	0.785	0.682	-	13.1	30	86	-.03
trichlorofluoromethane	1.212	1.16	-	4.3	30	86	-.04
isopropyl alcohol	1.3	0.999	-	23.2	30	71	-.03
acrylonitrile	0.618	0.571	-	7.6	30	89	-.03
pentane	1.654	1.256	-	24.1	30	76	-.04
ethyl ether	1.407	1.076	-	23.5	30	69	-.03
1,1-dichloroethene	1.17	1.104	-	5.6	30	86	-.04
tertiary butyl alcohol	1.552	1.546	-	0.4	30	91	-.03
methylene chloride	0.778	0.758	-	2.6	30	90	-.04
3-chloropropene	1.164	1.019	-	12.5	30	82	-.04
carbon disulfide	2.154	1.791	-	16.9	30	74	-.04
Freon 113	1.359	1.147	-	15.6	30	77	-.04
trans-1,2-dichloroethene	1.201	1.048	-	12.7	30	80	-.04
1,1-dichloroethane	1.541	1.279	-	17	30	76	-.04
MTBE	1.987	1.728	-	13	30	80	-.04
vinyl acetate	1.67	1.267	-	24.1	30	72	-.04
2-butanone	1.719	1.452	-	15.5	30	77	-.04
cis-1,2-dichloroethene	1.123	1.003	-	10.7	30	81	-.04
Ethyl Acetate	0.299	0.284	-	5	30	84	-.04
chloroform	1.214	1.214	-	0	30	91	-.04
Tetrahydrofuran	1.067	0.88	-	17.5	30	78	-.04
2,2-dichloropropane	0.989	0.942	-	4.8	30	89	-.04
1,2-dichloroethane	0.901	0.863	-	4.2	30	88	-.04
1,4-difluorobenzene	1	1	-	0	30	82	-.05
hexane	0.45	0.512	-	-13.8	30	89	-.04

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRPIANO3	**Calibration Date**	: 02/25/24 13:51		
Lab File ID	: R329314	**Init. Calib. Date(s)**	: 12/30/23	12/30/23	
Sample No	: WG1889054-2	**Init. Calib. Times**	: 15:53	20:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
diisopropyl ether	0.234	0.239	-	-2.1	30	84	-.04
tert-butyl ethyl ether	0.836	0.905	-	-8.3	30	87	-.04
1,1,1-trichloroethane	0.352	0.393	-	-11.6	30	86	-.04
1,1-dichloropropene	0.343	0.351	-	-2.3	30	85	-.05
benzene	0.822	0.759	-	7.7	30	74	-.04
carbon tetrachloride	0.281	0.34	-	-21	30	90	-.05
cyclohexane	0.472	0.526	-	-11.4	30	89	-.05
tert-amyl methyl ether	0.736	0.714	-	3	30	79	-.05
dibromomethane	0.226	0.244	-	-8	30	88	-.05
1,2-dichloropropane	0.333	0.323	-	3	30	76	-.04
bromodichloromethane	0.365	0.465	-	-27.4	30	97	-.04
1,4-dioxane	0.183	0.208	-	-13.7	30	89	-.05
trichloroethene	0.326	0.349	-	-7.1	30	84	-.04
2,2,4-trimethylpentane	1.505	1.688	-	-12.2	30	94	-.04
methyl methacrylate	0.322	0.366	-	-13.7	30	87	-.04
heptane	0.536	0.571	-	-6.5	30	85	-.04
cis-1,3-dichloropropene	0.405	0.423	-	-4.4	30	79	-.04
4-methyl-2-pentanone	0.627	0.69	-	-10	30	86	-.04
trans-1,3-dichloropropene	0.319	0.348	-	-9.1	30	81	-.04
1,1,2-trichloroethane	0.311	0.312	-	-0.3	30	78	-.04
chlorobenzene-D5	1	1	-	0	30	105	-.03
toluene	6.9	5.466	-	20.8	30	82	-.04
1,3-dichloropropane	3.149	2.432	-	22.8	30	84	-.04
2-hexanone	3.981	3.492	-	12.3	30	85	-.04
dibromochloromethane	2.401	2.557	-	-6.5	30	103	-.03
1,2-dibromoethane	3.062	2.432	-	20.6	30	78	-.03
butyl acetate	1.031	0.763	-	26	30	78	-.03
octane	2.685	2.179	-	18.8	30	89	-.03
tetrachloroethene	2.826	2.372	-	16.1	30	83	-.03
1,1,1,2-tetrachloroethane	2.066	1.876	-	9.2	30	94	-.03
chlorobenzene	5.159	4.274	-	17.2	30	83	-.03
ethylbenzene	8.548	7.12	-	16.7	30	84	-.02
m+p-xylene	6.839	6.09	-	11	30	88	-.03
bromoform	2.136	2.427	-	-13.6	30	103	-.03
styrene	5.635	4.689	-	16.8	30	80	-.02
1,1,2,2-tetrachloroethane	4.649	4.431	-	4.7	30	95	-.03
o-xylene	6.786	6.349	-	6.4	30	92	-.03
1,2,3-trichloropropane	3.656	3.141	-	14.1	30	91	-.03
nonane	5.532	4.605	-	16.8	30	88	-.03
isopropylbenzene	8.659	7.652	-	11.6	30	91	-.02
bromobenzene	4.854	4.258	-	12.3	30	93	-.03
2-chlorotoluene	2.521	2.279	-	9.6	30	96	-.02
n-propylbenzene	2.861	2.628	-	8.1	30	96	-.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRPIANO3	**Calibration Date**	: 02/25/24 13:51		
Lab File ID	: R329314	**Init. Calib. Date(s)**	: 12/30/23	12/30/23	
Sample No	: WG1889054-2	**Init. Calib. Times**	: 15:53	20:39	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
4-chlorotoluene	2.426	2.267	-	6.6	30	99	-.02
4-ethyl toluene	8.944	8.418	-	5.9	30	91	-.03
1,3,5-trimethylbenzene	7.919	7.216	-	8.9	30	89	-.03
tert-butylbenzene	7.736	7.472	-	3.4	30	96	-.03
1,2,4-trimethylbenzene	7.645	7.409	-	3.1	30	90	-.02
decane	7.022	6.936	-	1.2	30	101	-.03
Benzyl Chloride	4.656	5.195	-	-11.6	30	100	-.03
1,3-dichlorobenzene	5.138	5.09	-	0.9	30	92	-.03
1,4-dichlorobenzene	5.128	5.087	-	0.8	30	93	-.03
sec-butylbenzene	11.022	10.045	-	8.9	30	92	-.02
p-isopropyltoluene	9.256	8.459	-	8.6	30	90	-.02
1,2-dichlorobenzene	5.022	4.763	-	5.2	30	91	-.02
n-butylbenzene	8.625	8.653	-	-0.3	30	102	-.02
1,2-dibromo-3-chloropropan	1.885	1.859	-	1.4	30	97	-.02
undecane	7.695	7.975	-	-3.6	30	103	-.02
dodecane	7.301	7.978	-	-9.3	30	101	-.02
1,2,4-trichlorobenzene	4.182	4.353	-	-4.1	30	93	-.03
naphthalene	9.88	10.474	-	-6	30	110	-.03
1,2,3-trichlorobenzene	3.803	3.896	-	-2.4	30	107	-.03
hexachlorobutadiene	3.994	3.702	-	7.3	30	84	-.03

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	85	0.02
2		chlorodifluoromethane	0.844	0.750	11.1	77	0.02
3		propylene	0.471	0.368	21.9	74	0.02
4		propane	0.624	0.557	10.7	80	0.02
5		dichlorodifluoromethane	0.948	0.985	-3.9	87	0.02
6	C	chloromethane	0.504	0.435	13.7	72	0.02
7		Freon-114	1.154	1.112	3.6	80	0.02
8	C	methanol	0.253	0.240	5.1	83	0.02
9	C	vinyl chloride	0.523	0.511	2.3	82	0.02
10	C	1,3-butadiene	0.450	0.391	13.1	74	0.02
11		butane	0.770	0.677	12.1	78	0.02
13	C	bromomethane	0.429	0.426	0.7	83	0.02
14	C	chloroethane	0.241	0.232	3.7	82	0.02
15		ethanol	0.428	0.389	9.1	75	0.03
16		dichlorofluoromethane	0.869	0.898	-3.3	91	0.03
17	C	vinyl bromide	0.412	0.397	3.6	81	0.03
18	C	acrolein	0.249	0.215	13.7	79	0.03
19		acetone	0.609	0.549	9.9	81	0.03
20	C	acetonitrile	0.425	0.404	4.9	85	0.03
21		trichlorofluoromethane	0.750	0.837	-11.6	94	0.03
22		isopropyl alcohol	0.791	0.651	17.7	69	0.03
23	C	acrylonitrile	0.462	0.386	16.5	75	0.03
24		pentane	0.910	0.959	-5.4	94	0.03
25		ethyl ether	0.953	1.029	-8.0	101	0.03
26	C	1,1-dichloroethene	0.676	0.690	-2.1	86	0.03
27		tertiary butyl alcohol	0.921	0.755	18.0	71	0.03
28	C	methylene chloride	0.670	0.677	-1.0	91	0.03
29	C	3-chloropropene	0.749	0.639	14.7	73	0.03
30	C	carbon disulfide	1.668	1.569	5.9	77	0.04
31		Freon 113	0.971	0.955	1.6	82	0.03
32		trans-1,2-dichloroethene	0.704	0.685	2.7	81	0.03
33	C	1,1-dichloroethane	0.889	0.862	3.0	81	0.03
34	C	MTBE	1.313	1.092	16.8	70	0.03
35	C	vinyl acetate	1.208	1.085	10.2	75	0.03
36	C	2-butanone	1.222	1.071	12.4	73	0.03
37		cis-1,2-dichloroethene	0.662	0.645	2.6	81	0.04
38		Ethyl Acetate	0.170	0.161	5.3	80	0.02
39	C	chloroform	0.940	0.976	-3.8	87	0.03
40		Tetrahydrofuran	0.693	0.600	13.4	72	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.736	0.700	4.9	82	0.03
42	C	1,2-dichloroethane	0.536	0.573	-6.9	92	0.03
43	I	1,4-difluorobenzene	1.000	1.000	0.0	87	0.03
44	C	hexane	0.331	0.311	6.0	83	0.03
45		diisopropyl ether	0.174	0.149	14.4	78	0.03
46		tert-butyl ethyl ether	0.580	0.489	15.7	76	0.03
48	C	1,1,1-trichloroethane	0.288	0.294	-2.1	89	0.03
49		1,1-dichloropropene	0.312	0.275	11.9	79	0.03
50	C	benzene	0.741	0.662	10.7	77	0.03
52	C	carbon tetrachloride	0.271	0.304	-12.2	94	0.03
53		cyclohexane	0.354	0.329	7.1	82	0.03
54		tert-amyl methyl ether	0.584	0.441	24.5	68	0.03
55		dibromomethane	0.198	0.200	-1.0	91	0.03
56	C	1,2-dichloropropane	0.228	0.215	5.7	80	0.04
57		bromodichloromethane	0.348	0.369	-6.0	90	0.03
58	C	1,4-dioxane	0.143	0.125	12.6	75	0.03
59	C	trichloroethene	0.282	0.279	1.1	85	0.03
60	C	2,2,4-trimethylpentane	1.099	0.993	9.6	83	0.03
61		methyl methacrylate	0.247	0.218	11.7	75	0.03
62		heptane	0.466	0.398	14.6	73	0.03
63	C	cis-1,3-dichloropropene	0.371	0.311	16.2	71	0.03
64	C	4-methyl-2-pentanone	0.552	0.461	16.5	70	0.03
65		trans-1,3-dichloropropene	0.290	0.249	14.1	71	0.03
66	C	1,1,2-trichloroethane	0.253	0.241	4.7	81	0.03
67	I	chlorobenzene-D5	1.000	1.000	0.0	93	0.02
68	C	toluene	5.498	4.852	11.7	81	0.03
71		1,3-dichloropropane	2.760	2.361	14.5	82	0.03
72		2-hexanone	3.566	2.821	20.9	68	0.02
74		dibromochloromethane	2.321	2.540	-9.4	96	0.03
75	C	1,2-dibromoethane	2.826	2.502	11.5	80	0.03
76		butyl acetate	0.635	0.487	23.3	70	0.03
77		octane	1.996	1.721	13.8	84	0.03
78	C	tetrachloroethene	2.195	2.016	8.2	84	0.03
79		1,1,1,2-tetrachloroethane	1.906	1.889	0.9	93	0.03
80	C	chlorobenzene	4.722	4.133	12.5	80	0.03
81	C	ethylbenzene	6.927	6.225	10.1	81	0.02
83	C	m+p-xylene	5.488	4.985	9.2	82	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	1.794	1.970	-9.8	94	0.02
85	C	styrene	4.644	3.882	16.4	73	0.03
86	C	1,1,2,2-tetrachloroethane	4.138	3.888	6.0	85	0.02
87	C	o-xylene	5.492	5.018	8.6	82	0.02
88		1,2,3-trichloropropane	3.301	2.794	15.4	81	0.02
89		nonane	5.239	3.980	24.0	71	0.02
91	C	isopropylbenzene	7.347	6.298	14.3	82	0.03
92		bromobenzene	4.250	3.588	15.6	81	0.02
93		2-chlorotoluene	2.139	1.869	12.6	83	0.02
94		n-propylbenzene	2.332	2.101	9.9	87	0.03
95		4-chlorotoluene	2.046	1.830	10.6	84	0.02
96		4-ethyl toluene	7.571	6.660	12.0	80	0.03
97		1,3,5-trimethylbenzene	6.529	6.196	5.1	86	0.02
98		tert-butylbenzene	6.472	5.749	11.2	84	0.02
99		1,2,4-trimethylbenzene	6.497	5.540	14.7	76	0.02
100		decane	4.934	4.189	15.1	81	0.03
101	C	Benzyl Chloride	3.616	3.004	16.9	73	0.02
102		1,3-dichlorobenzene	3.907	3.575	8.5	81	0.02
103	C	1,4-dichlorobenzene	3.804	3.453	9.2	79	0.02
104		sec-butylbenzene	9.210	7.603	17.4	79	0.03
106		p-isopropyltoluene	7.833	6.773	13.5	82	0.02
107		1,2-dichlorobenzene	3.724	3.344	10.2	81	0.03
108		n-butylbenzene	6.717	5.657	15.8	81	0.03
111	C	1,2-dibromo-3-chloropropane	1.541	1.324	14.1	80	0.02
112		undecane	5.267	4.271	18.9	77	0.03
114		dodecane	5.065	3.904	22.9	71	0.06
115	C	1,2,4-trichlorobenzene	2.469	1.886	23.6	64	0.03
116		naphthalene	6.859	5.884	14.2	83	0.03
117		1,2,3-trichlorobenzene	2.150	1.655	23.0	74	0.04
119	C	hexachlorobutadiene	2.381	2.106	11.5	77	0.05

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.867	49	362386	10.000	ppbV	0.02
43) 1,4-difluorobenzene	11.103	114	978676	10.000	ppbV	0.03
67) chlorobenzene-D5	15.858	54	144285	10.000	ppbV	0.02
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.790	51	271946	8.892	ppbV #	95
3) propylene	3.814	41	133213m	7.798	ppbV	
4) propane	3.838	29	201851	8.928	ppbV	95
5) dichlorodifluoromethane	3.886	85	357129	10.397	ppbV	98
6) chloromethane	4.042	50	157643	8.639	ppbV	100
7) Freon-114	4.144	85	402998	9.635	ppbV	97
8) methanol	4.192	31	434484	47.403	ppbV	95
9) vinyl chloride	4.258	62	185073	9.773	ppbV	100
10) 1,3-butadiene	4.396	54	141763	8.696	ppbV	87
11) butane	4.450	43	245190	8.788	ppbV	94
13) bromomethane	4.666	94	154489	9.933	ppbV	98
14) chloroethane	4.846	64	83972	9.596	ppbV	99
15) ethanol	4.960	31	704833	45.444	ppbV	93
16) dichlorofluoromethane	4.954	67	325397	10.328	ppbV	98
17) vinyl bromide	5.210	106	143710	9.630	ppbV	98
18) acrolein	5.330	56	78002	8.657	ppbV	97
19) acetone	5.463	43	994124	45.058	ppbV	98
20) acetonitrile	5.187	41	146350	9.499	ppbV	96
21) trichlorofluoromethane	5.660	101	303327	11.159	ppbV	98
22) isopropyl alcohol	5.730	45	590141	20.584	ppbV	99
23) acrylonitrile	5.967	53	139827	8.355	ppbV	99
24) pentane	6.050	43	347434	10.537	ppbV	99
25) ethyl ether	6.070	31	373056	10.803	ppbV	98
26) 1,1-dichloroethene	6.342	61	249987	10.199	ppbV	99
27) tertiary butyl alcohol	6.378	59	273477	8.194	ppbV #	81
28) methylene chloride	6.480	49	245393	10.101	ppbV	95
29) 3-chloropropene	6.612	41	231423	8.531	ppbV	94
30) carbon disulfide	6.780	76	568681	9.406	ppbV	100
31) Freon 113	6.780	101	345983	9.829	ppbV	99
32) trans-1,2-dichloroethene	7.525	61	248148	9.729	ppbV	98
33) 1,1-dichloroethane	7.742	63	312282	9.695	ppbV	100
34) MTBE	7.808	73	395581	8.312	ppbV	98

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
35) vinyl acetate	7.925	43	393312	8.982	ppbV	98
36) 2-butanone	8.175	43	388233	8.764	ppbV	98
37) cis-1,2-dichloroethene	8.692	61	233609	9.738	ppbV	96
38) Ethyl Acetate	8.950	61	58267	9.454	ppbV	75
39) chloroform	9.025	83	353851	10.390	ppbV	98
40) Tetrahydrofuran	9.450	42	217340	8.649	ppbV	99
41) 2,2-dichloropropane	9.050	77	253507	9.499	ppbV	93
42) 1,2-dichloroethane	9.858	62	207600	10.696	ppbV	93
44) hexane	8.942	57	304131	9.394	ppbV	92
45) diisopropyl ether	8.933	87	146243	8.587	ppbV	85
46) tert-butyl ethyl ether	9.550	59	478568	8.425	ppbV	100
48) 1,1,1-trichloroethane	10.150	97	287794	10.208	ppbV	98
49) 1,1-dichloropropene	10.517	75	268677	8.791	ppbV	96
50) benzene	10.677	78	648174	8.937	ppbV	98
52) carbon tetrachloride	10.850	117	297519	11.208	ppbV	99
53) cyclohexane	10.997	56	321587	9.288	ppbV	97
54) tert-amyl methyl ether	11.370	73	431825	7.559	ppbV	98
55) dibromomethane	11.590	93	196168	10.127	ppbV	99
56) 1,2-dichloropropane	11.630	63	210171	9.428	ppbV	97
57) bromodichloromethane	11.857	83	361572	10.629	ppbV	99
58) 1,4-dioxane	11.890	88	121862	8.731	ppbV	98
59) trichloroethene	11.910	130	272802	9.885	ppbV	99
60) 2,2,4-trimethylpentane	11.963	57	971990	9.039	ppbV	100
61) methyl methacrylate	12.157	41	213338	8.820	ppbV	99
62) heptane	12.283	43	389106	8.534	ppbV	92
63) cis-1,3-dichloropropene	12.925	75	304724	8.389	ppbV	95
64) 4-methyl-2-pentanone	12.958	43	451204	8.348	ppbV	95
65) trans-1,3-dichloropropene	13.550	75	243725	8.583	ppbV	95
66) 1,1,2-trichloroethane	13.750	97	235751	9.519	ppbV	95
68) toluene	14.075	91	700099	8.826	ppbV	98
71) 1,3-dichloropropane	14.100	76	340625	8.552	ppbV	98
72) 2-hexanone	14.358	43	407079	7.912	ppbV	90
74) dibromochloromethane	14.525	129	366521	10.944	ppbV	99
75) 1,2-dibromoethane	14.775	107	360948	8.853	ppbV	100
76) butyl acetate	15.033	73	70249	7.671	ppbV	92
77) octane	15.125	85	248339	8.623	ppbV	88
78) tetrachloroethene	15.250	166	290920	9.185	ppbV	95
79) 1,1,1,2-tetrachloroethane	15.883	131	272600	9.912	ppbV	97
80) chlorobenzene	15.900	112	596294	8.752	ppbV	99
81) ethylbenzene	16.250	91	898186	8.987	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

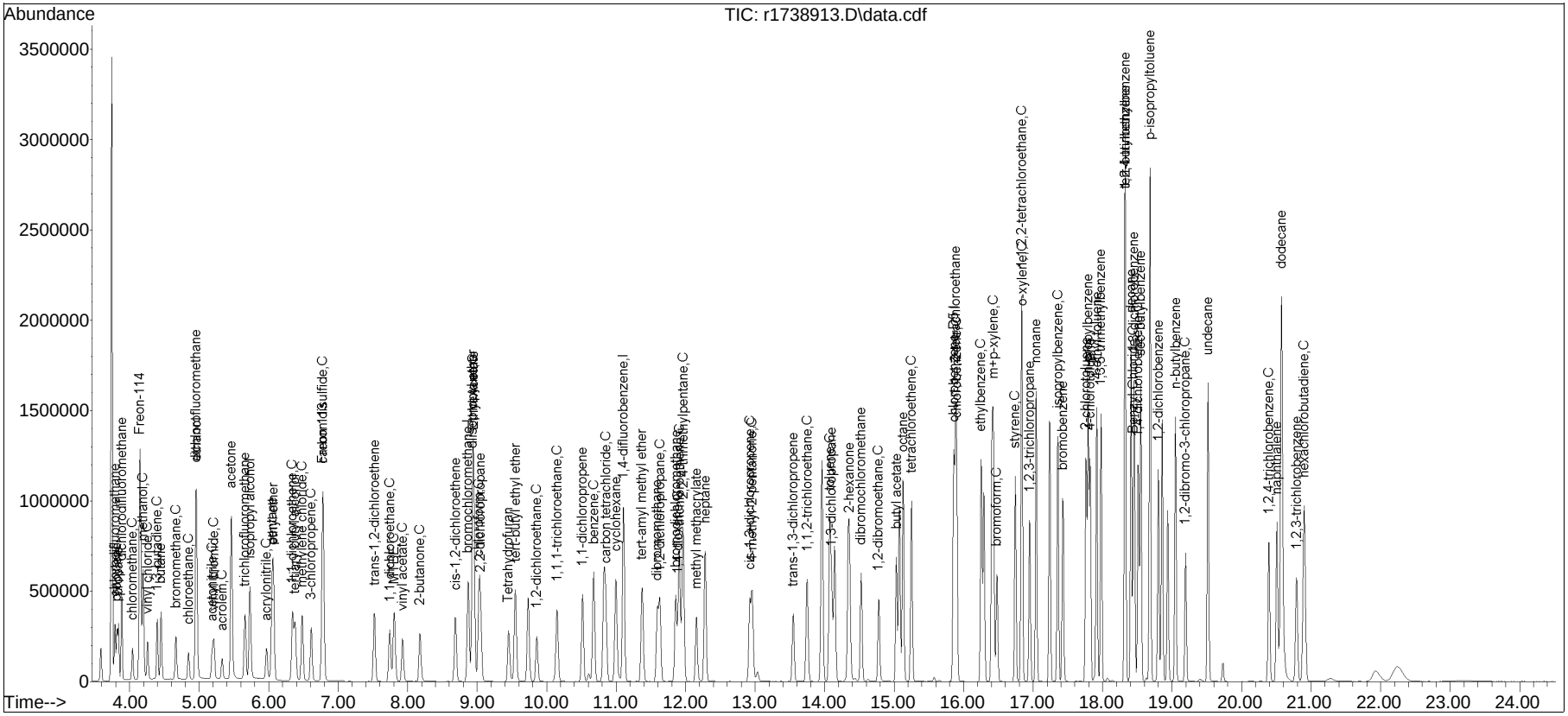
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
83) m+p-xylene	16.425	91	1438538	18.166	ppbV		95
84) bromoform	16.475	173	284188	10.976	ppbV		99
85) styrene	16.742	104	560123	8.359	ppbV		96
86) 1,1,2,2-tetrachloroethane	16.833	83	561015	9.396	ppbV		100
87) o-xylene	16.842	91	724037	9.137	ppbV		95
88) 1,2,3-trichloropropane	16.950	75	403191	8.464	ppbV		95
89) nonane	17.042	43	574283	7.597	ppbV	#	85
91) isopropylbenzene	17.358	105	908663	8.571	ppbV		99
92) bromobenzene	17.425	77	517729	8.442	ppbV		88
93) 2-chlorotoluene	17.758	126	269710	8.737	ppbV		97
94) n-propylbenzene	17.792	120	303202	9.010	ppbV		96
95) 4-chlorotoluene	17.817	126	263973	8.944	ppbV		97
96) 4-ethyl toluene	17.917	105	960941	8.797	ppbV		97
97) 1,3,5-trimethylbenzene	17.975	105	893938	9.490	ppbV		97
98) tert-butylbenzene	18.325	119	829566	8.883	ppbV		99
99) 1,2,4-trimethylbenzene	18.325	105	799280	8.526	ppbV		94
100) decane	18.408	57	604386	8.489	ppbV		85
101) Benzyl Chloride	18.442	91	433395	8.308	ppbV		98
102) 1,3-dichlorobenzene	18.450	146	515855	9.152	ppbV		94
103) 1,4-dichlorobenzene	18.508	146	498144	9.076	ppbV		94
104) sec-butylbenzene	18.550	105	1097022	8.256	ppbV		98
106) p-isopropyltoluene	18.683	119	977285	8.647	ppbV		98
107) 1,2-dichlorobenzene	18.800	146	482505	8.979	ppbV		99
108) n-butylbenzene	19.050	91	816289	8.422	ppbV		99
111) 1,2-dibromo-3-chloropr...	19.192	75	191017	8.591	ppbV		91
112) undecane	19.517	57	616258	8.109	ppbV		86
114) dodecane	20.575	57	563279	7.708	ppbV		82
115) 1,2,4-trichlorobenzene	20.392	180	272156	7.640	ppbV		99
116) naphthalene	20.508	128	849010	8.578	ppbV		100
117) 1,2,3-trichlorobenzene	20.792	180	238856	7.700	ppbV		100
119) hexachlorobutadiene	20.900	225	303902	8.846	ppbV		98

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

Sub List : Default-LCS-AP2 - All compounds listed4T\r1738913.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738913.D
Acq On : 24 Feb 2024 12:42 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-2,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:37:12 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

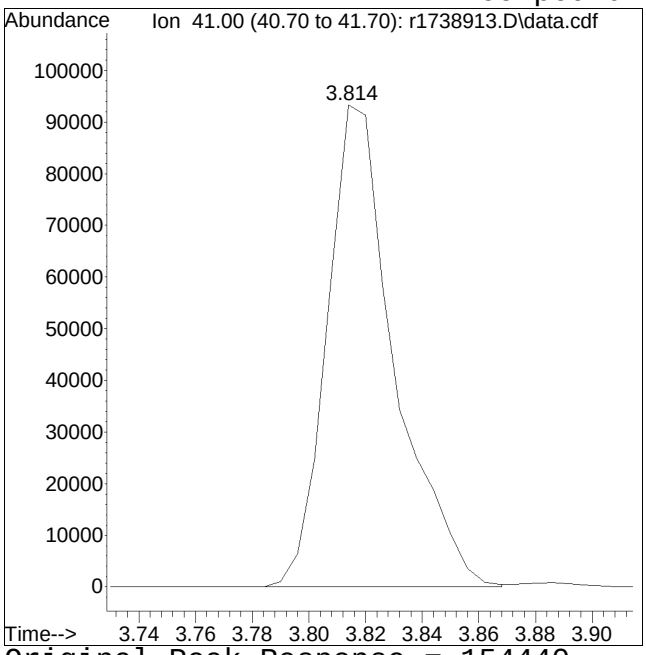


Manual Integration Report

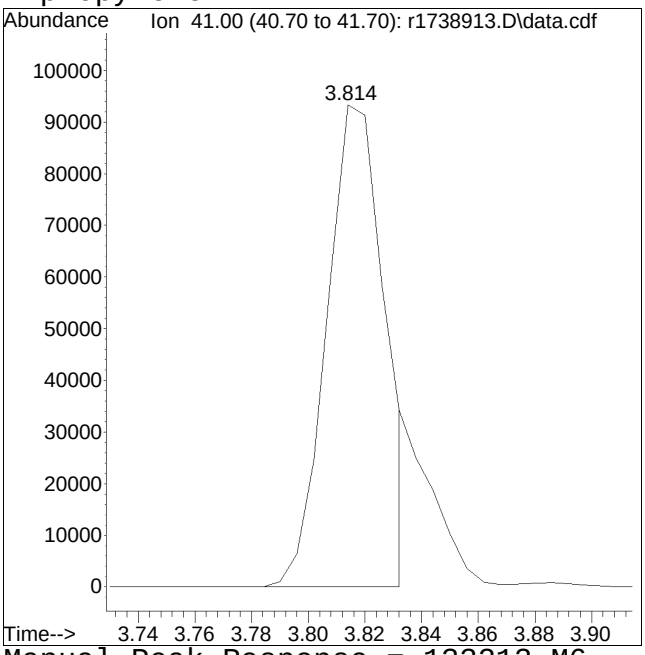
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1738913.D
Date Inj'd : 2/24/2024 12:42 PM
Sample : WG1888881-2,3,250,250

Method : TFS17_240107.M
Operator : AIRLAB17:TJS
Instrument :
Quant Date : 2/24/2024 1:37 pm

Compound #3: propylene



Original Peak Response = 154440



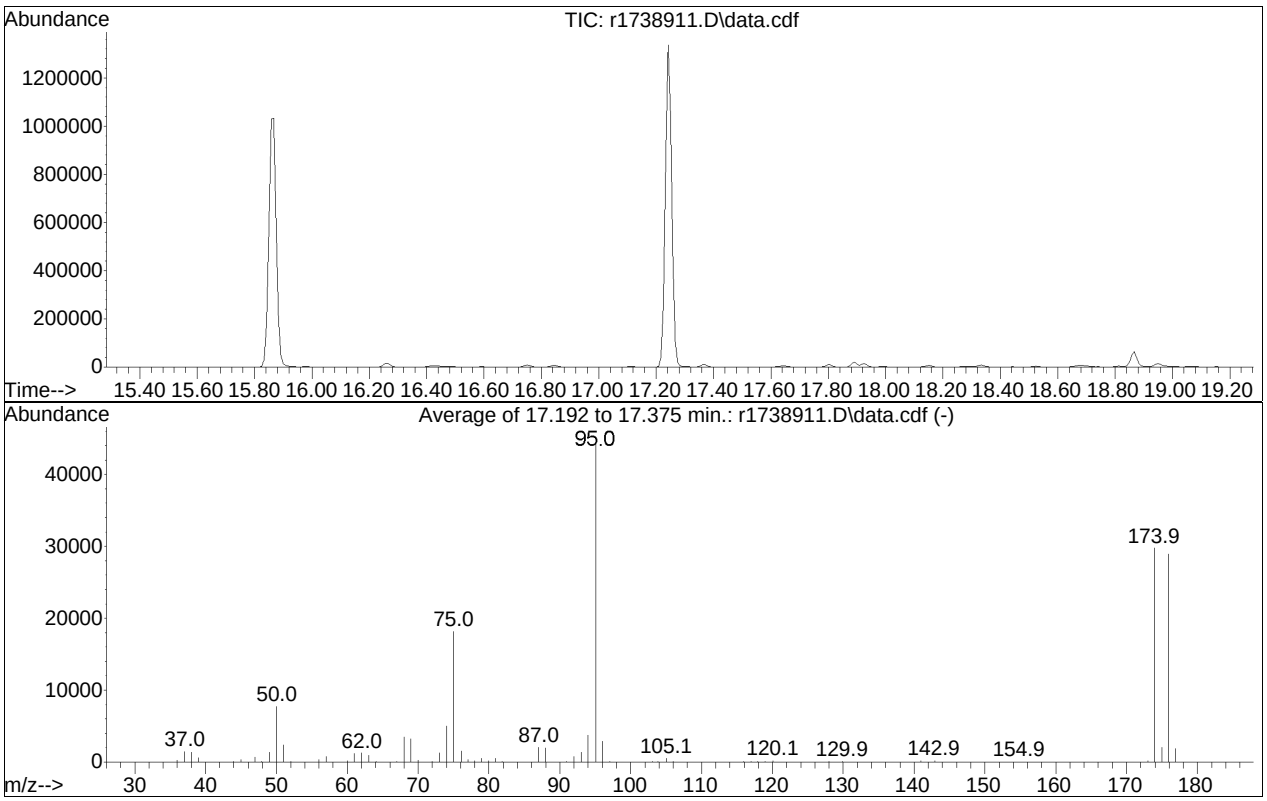
Manual Peak Response = 133213 M6

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

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738911.D
Acq On : 24 Feb 2024 11:22 AM
Operator : AIRLAB17:TJS
Sample : WG1888881-1,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:04:29 2024



Spectrum Information: Average of 17.192 to 17.375 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.5	7792	PASS
75	95	30	66	41.0	18218	PASS
95	95	100	100	100.0	44424	PASS
96	95	5	9	6.6	2917	PASS
173	174	0.00	2	0.6	191	PASS
174	95	50	120	67.1	29800	PASS
175	174	4	9	7.1	2103	PASS
176	174	93	101	97.2	28977	PASS
177	176	5	9	6.6	1914	PASS

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	95	-0.05
2		chlorodifluoromethane	0.904	0.915	-1.2	103	-0.02
3		propylene	0.687	0.726	-5.7	93	-0.02
4		propane	0.696	0.711	-2.2	96	-0.02
5		dichlorodifluoromethane	1.164	1.152	1.0	90	-0.02
6	C	chloromethane	0.574	0.596	-3.8	96	-0.02
7		Freon-114	1.428	1.624	-13.7	101	-0.02
8	C	methanol	0.274	0.278	-1.5	93	-0.02
9	C	vinyl chloride	0.783	0.885	-13.0	102	-0.02
10	C	1,3-butadiene	0.545	0.667	-22.4	111	-0.03
11		butane	1.287	1.184	8.0	90	-0.02
13	C	bromomethane	0.558	0.638	-14.3	102	-0.03
14	C	chloroethane	0.402	0.436	-8.5	99	-0.03
15		ethanol	0.398	0.472	-18.6	107	-0.03
16		dichlorofluoromethane	1.368	1.340	2.0	88	-0.03
17	C	vinyl bromide	0.648	0.620	4.3	88	-0.03
18	C	acrolein	0.367	0.329	10.4	85	-0.03
19		acetone	1.066	0.915	14.2	80	-0.03
20	C	acetonitrile	0.785	0.682	13.1	86	-0.03
21		trichlorofluoromethane	1.212	1.160	4.3	86	-0.04
22		isopropyl alcohol	1.300	0.999	23.2	71	-0.03
23	C	acrylonitrile	0.618	0.571	7.6	89	-0.03
24		pentane	1.654	1.256	24.1	76	-0.04
25		ethyl ether	1.407	1.076	23.5	69	-0.03
26	C	1,1-dichloroethene	1.170	1.104	5.6	86	-0.04
27		tertiary butyl alcohol	1.552	1.546	0.4	91	-0.03
28	C	methylene chloride	0.778	0.758	2.6	90	-0.04
29	C	3-chloropropene	1.164	1.019	12.5	82	-0.04
30	C	carbon disulfide	2.154	1.791	16.9	74	-0.04
31		Freon 113	1.359	1.147	15.6	77	-0.04
32		trans-1,2-dichloroethene	1.201	1.048	12.7	80	-0.04
33	C	1,1-dichloroethane	1.541	1.279	17.0	76	-0.04
34	C	MTBE	1.987	1.728	13.0	80	-0.04
35	C	vinyl acetate	1.670	1.267	24.1	72	-0.04
36	C	2-butanone	1.719	1.452	15.5	77	-0.04
37		cis-1,2-dichloroethene	1.123	1.003	10.7	81	-0.04
38		Ethyl Acetate	0.299	0.284	5.0	84	-0.04
39	C	chloroform	1.214	1.214	0.0	91	-0.04
40		Tetrahydrofuran	1.067	0.880	17.5	78	-0.04

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	0.989	0.942	4.8	89	-0.04
42	C	1,2-dichloroethane	0.901	0.863	4.2	88	-0.04
43	I	1,4-difluorobenzene	1.000	1.000	0.0	82	-0.05
44	C	hexane	0.450	0.512	-13.8	89	-0.04
45		diisopropyl ether	0.234	0.239	-2.1	84	-0.04
46		tert-butyl ethyl ether	0.836	0.905	-8.3	87	-0.04
48	C	1,1,1-trichloroethane	0.352	0.393	-11.6	86	-0.04
49		1,1-dichloropropene	0.343	0.351	-2.3	85	-0.05
50	C	benzene	0.822	0.759	7.7	74	-0.04
52	C	carbon tetrachloride	0.281	0.340	-21.0	90	-0.05
53		cyclohexane	0.472	0.526	-11.4	89	-0.05
54		tert-amyl methyl ether	0.736	0.714	3.0	79	-0.05
55		dibromomethane	0.226	0.244	-8.0	88	-0.05
56	C	1,2-dichloropropane	0.333	0.323	3.0	76	-0.04
57		bromodichloromethane	0.365	0.465	-27.4	97	-0.04
58	C	1,4-dioxane	0.183	0.208	-13.7	89	-0.05
59	C	trichloroethene	0.326	0.349	-7.1	84	-0.04
60	C	2,2,4-trimethylpentane	1.505	1.688	-12.2	94	-0.04
61		methyl methacrylate	0.322	0.366	-13.7	87	-0.04
62		heptane	0.536	0.571	-6.5	85	-0.04
63	C	cis-1,3-dichloropropene	0.405	0.423	-4.4	79	-0.04
64	C	4-methyl-2-pentanone	0.627	0.690	-10.0	86	-0.04
65		trans-1,3-dichloropropene	0.319	0.348	-9.1	81	-0.04
66	C	1,1,2-trichloroethane	0.311	0.312	-0.3	78	-0.04
67	I	chlorobenzene-D5	1.000	1.000	0.0	105	-0.03
68	C	toluene	6.900	5.466	20.8	82	-0.04
71		1,3-dichloropropane	3.149	2.432	22.8	84	-0.04
72		2-hexanone	3.981	3.492	12.3	85	-0.04
74		dibromochloromethane	2.401	2.557	-6.5	103	-0.03
75	C	1,2-dibromoethane	3.062	2.432	20.6	78	-0.03
76		butyl acetate	1.031	0.763	26.0	78	-0.03
77		octane	2.685	2.179	18.8	89	-0.03
78	C	tetrachloroethene	2.826	2.372	16.1	83	-0.03
79		1,1,1,2-tetrachloroethane	2.066	1.876	9.2	94	-0.03
80	C	chlorobenzene	5.159	4.274	17.2	83	-0.03
81	C	ethylbenzene	8.548	7.120	16.7	84	-0.02
83	C	m+p-xylene	6.839	6.090	11.0	88	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
84	C	bromoform	2.136	2.427	-13.6	103	-0.03
85	C	styrene	5.635	4.689	16.8	80	-0.02
86	C	1,1,2,2-tetrachloroethane	4.649	4.431	4.7	95	-0.03
87	C	o-xylene	6.786	6.349	6.4	92	-0.03
88		1,2,3-trichloropropane	3.656	3.141	14.1	91	-0.03
89		nonane	5.532	4.605	16.8	88	-0.03
91	C	isopropylbenzene	8.659	7.652	11.6	91	-0.02
92		bromobenzene	4.854	4.258	12.3	93	-0.03
93		2-chlorotoluene	2.521	2.279	9.6	96	-0.02
94		n-propylbenzene	2.861	2.628	8.1	96	-0.03
95		4-chlorotoluene	2.426	2.267	6.6	99	-0.02
96		4-ethyl toluene	8.944	8.418	5.9	91	-0.03
97		1,3,5-trimethylbenzene	7.919	7.216	8.9	89	-0.03
98		tert-butylbenzene	7.736	7.472	3.4	96	-0.03
99		1,2,4-trimethylbenzene	7.645	7.409	3.1	90	-0.02
100		decane	7.022	6.936	1.2	101	-0.03
101	C	Benzyl Chloride	4.656	5.195	-11.6	100	-0.03
102		1,3-dichlorobenzene	5.138	5.090	0.9	92	-0.03
103	C	1,4-dichlorobenzene	5.128	5.087	0.8	93	-0.03
104		sec-butylbenzene	11.022	10.045	8.9	92	-0.02
106		p-isopropyltoluene	9.256	8.459	8.6	90	-0.02
107		1,2-dichlorobenzene	5.022	4.763	5.2	91	-0.02
108		n-butylbenzene	8.625	8.653	-0.3	102	-0.02
111	C	1,2-dibromo-3-chloropropane	1.885	1.859	1.4	97	-0.02
112		undecane	7.695	7.975	-3.6	103	-0.02
114		dodecane	7.301	7.978	-9.3	101	-0.02
115	C	1,2,4-trichlorobenzene	4.182	4.353	-4.1	93	-0.03
116		naphthalene	9.880	10.474	-6.0	110	-0.03
117		1,2,3-trichlorobenzene	3.803	3.896	-2.4	107	-0.03
119	C	hexachlorobutadiene	3.994	3.702	7.3	84	-0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	280213	10.000	ppbV	-0.05
Standard Area = 280213			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.173	114	768332	10.000	ppbV	-0.05
Standard Area = 768332			Recovery = 100.00%			
67) chlorobenzene-D5	15.917	54	143122	10.000	ppbV	-0.03
Standard Area = 143122			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) chlorodifluoromethane	3.780	51	256281	10.113	ppbV	96
3) propylene	3.810	41	203407M6	10.566	ppbV	
4) propane	3.834	29	199278	10.224	ppbV	97
5) dichlorodifluoromethane	3.882	85	322694	9.890	ppbV	98
6) chloromethane	4.044	50	166897	10.379	ppbV	98
7) Freon-114	4.146	85	455049	11.374	ppbV	98
8) methanol	4.200	31	390102	50.756	ppbV	99
9) vinyl chloride	4.266	62	248053	11.310	ppbV	98
10) 1,3-butadiene	4.404	54	187032	12.244	ppbV	83
11) butane	4.464	43	331671	9.199	ppbV #	98
13) bromomethane	4.680	94	178741	11.440	ppbV	100
14) chloroethane	4.866	64	122107	10.851	ppbV	98
15) ethanol	4.992	31	660658	59.175	ppbV	92
16) dichlorofluoromethane	4.974	67	375548	9.800	ppbV	99
17) vinyl bromide	5.240	106	173869	9.570	ppbV	99
18) acrolein	5.367	56	92083	8.965	ppbV #	94
19) acetone	5.503	43	1281330	42.898	ppbV	94
20) acetonitrile	5.223	41	191138	8.694	ppbV	100
21) trichlorofluoromethane	5.697	101	324978	9.571	ppbV	99
22) isopropyl alcohol	5.780	45	699769	19.207	ppbV	100
23) acrylonitrile	6.020	53	159904	9.230	ppbV	99
24) pentane	6.093	43	351958	7.592	ppbV	96
25) ethyl ether	6.117	31	301508	7.650	ppbV	98
26) 1,1-dichloroethene	6.394	61	309399	9.438	ppbV	93
27) tertiary butyl alcohol	6.442	59	433208	9.964	ppbV	98
28) methylene chloride	6.532	49	212314	9.734	ppbV	95
29) 3-chloropropene	6.664	41	285470	8.755	ppbV	96
30) carbon disulfide	6.838	76	501747	8.312	ppbV	96
31) Freon 113	6.832	101	321440	8.442	ppbV	97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
32) trans-1,2-dichloroethene	7.583	61	293801	8.730	ppbV		94
33) 1,1-dichloroethane	7.808	63	358528	8.301	ppbV		99
34) MTBE	7.875	73	484235	8.698	ppbV		95
35) vinyl acetate	7.992	43	355041	7.589	ppbV		99
36) 2-butanone	8.250	43	406770	8.444	ppbV		96
37) cis-1,2-dichloroethene	8.758	61	280982	8.926	ppbV		94
38) Ethyl Acetate	9.025	61	79527	9.503	ppbV		99
39) chloroform	9.100	83	340158	9.998	ppbV		100
40) Tetrahydrofuran	9.533	42	246567	8.250	ppbV		96
41) 2,2-dichloropropane	9.117	77	263988	9.530	ppbV		97
42) 1,2-dichloroethane	9.933	62	241830	9.580	ppbV		97
44) hexane	9.008	57	393378	11.390	ppbV		89
45) diisopropyl ether	9.008	87	183596	10.216	ppbV		99
46) tert-butyl ethyl ether	9.617	59	695565	10.827	ppbV		99
48) 1,1,1-trichloroethane	10.225	97	301694	11.143	ppbV		99
49) 1,1-dichloropropene	10.587	75	269496	10.217	ppbV		97
50) benzene	10.753	78	583496	9.236	ppbV	#	92
52) carbon tetrachloride	10.920	117	261612	12.102	ppbV		99
53) cyclohexane	11.067	56	404157	11.149	ppbV		95
54) tert-amyl methyl ether	11.440	73	548496	9.705	ppbV		95
55) dibromomethane	11.667	93	187806	10.793	ppbV		97
56) 1,2-dichloropropane	11.700	63	248290	9.698	ppbV		97
57) bromodichloromethane	11.933	83	356923	12.744	ppbV		98
58) 1,4-dioxane	11.967	88	160195	11.409	ppbV		99
59) trichloroethene	11.980	130	267776	10.706	ppbV		97
60) 2,2,4-trimethylpentane	12.027	57	1296899	11.214	ppbV		97
61) methyl methacrylate	12.227	41	281214	11.375	ppbV		94
62) heptane	12.347	43	438452	10.649	ppbV		94
63) cis-1,3-dichloropropene	13.000	75	324682	10.428	ppbV		97
64) 4-methyl-2-pentanone	13.033	43	530320	11.013	ppbV		97
65) trans-1,3-dichloropropene	13.625	75	267546	10.923	ppbV		99
66) 1,1,2-trichloroethane	13.825	97	239925	10.032	ppbV		94
68) toluene	14.142	91	782354	7.923	ppbV		99
71) 1,3-dichloropropane	14.167	76	348040	7.722	ppbV		99
72) 2-hexanone	14.425	43	499795	8.772	ppbV		96
74) dibromochloromethane	14.592	129	365899	10.647	ppbV		99
75) 1,2-dibromoethane	14.842	107	348030	7.943	ppbV		99
76) butyl acetate	15.083	73	109232	7.403	ppbV		84
77) octane	15.183	85	311835	8.116	ppbV		95
78) tetrachloroethene	15.308	166	339414	8.391	ppbV		94

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

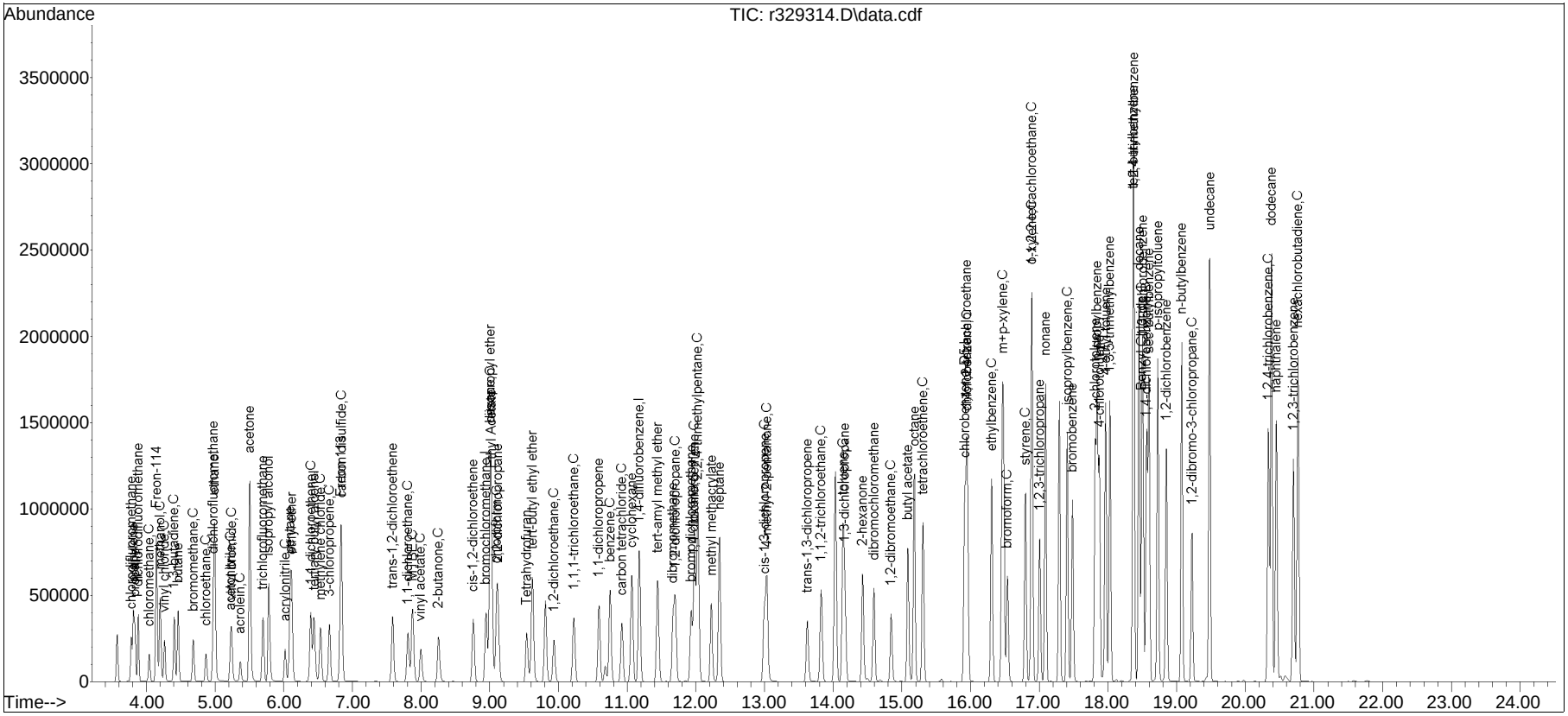
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,1,1,2-tetrachloroethane	15.942	131	268500	9.079	ppbV	99
80) chlorobenzene	15.950	112	611667	8.284	ppbV	100
81) ethylbenzene	16.308	91	1019044	8.329	ppbV	94
83) m+p-xylene	16.467	91	1743345	17.811	ppbV	93
84) bromoform	16.533	173	347294	11.362	ppbV	98
85) styrene	16.800	104	671063	8.321	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.892	83	634240	9.531	ppbV	99
87) o-xylene	16.892	91	908706	9.357	ppbV	94
88) 1,2,3-trichloropropane	17.008	75	449486	8.590	ppbV	99
89) nonane	17.092	43	659033	8.324	ppbV	92
91) isopropylbenzene	17.408	105	1095103	8.836	ppbV	96
92) bromobenzene	17.483	77	609409	8.772	ppbV	97
93) 2-chlorotoluene	17.817	126	326234	9.042	ppbV	94
94) n-propylbenzene	17.842	120	376122	9.185	ppbV	93
95) 4-chlorotoluene	17.875	126	324468	9.346	ppbV	94
96) 4-ethyl toluene	17.967	105	1204787	9.412	ppbV	97
97) 1,3,5-trimethylbenzene	18.025	105	1032719	9.112	ppbV	96
98) tert-butylbenzene	18.367	119	1069343	9.658	ppbV	99
99) 1,2,4-trimethylbenzene	18.375	105	1060325	9.691	ppbV	98
100) decane	18.450	57	992652	9.878	ppbV	92
101) Benzyl Chloride	18.492	91	743551	11.157	ppbV	98
102) 1,3-dichlorobenzene	18.508	146	728524	9.907	ppbV	99
103) 1,4-dichlorobenzene	18.558	146	728105	9.920	ppbV	97
104) sec-butylbenzene	18.600	105	1437646	9.114	ppbV	96
106) p-isopropyltoluene	18.725	119	1210680	9.139	ppbV	96
107) 1,2-dichlorobenzene	18.850	146	681736	9.484	ppbV	98
108) n-butylbenzene	19.075	91	1238377	10.032	ppbV	98
111) 1,2-dibromo-3-chloropr...	19.225	75	265997	9.858	ppbV	96
112) undecane	19.483	57	1141460	10.364	ppbV	91
114) dodecane	20.383	57	1141794	10.926	ppbV	91
115) 1,2,4-trichlorobenzene	20.333	180	622952	10.409	ppbV	96
116) naphthalene	20.450	128	1499095	10.601	ppbV	99
117) 1,2,3-trichlorobenzene	20.700	180	557671	10.246	ppbV	97
119) hexachlorobutadiene	20.767	225	529902	9.270	ppbV	99

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

Sub List : Default-LCS-AP2 - All compounds listed25T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-2,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

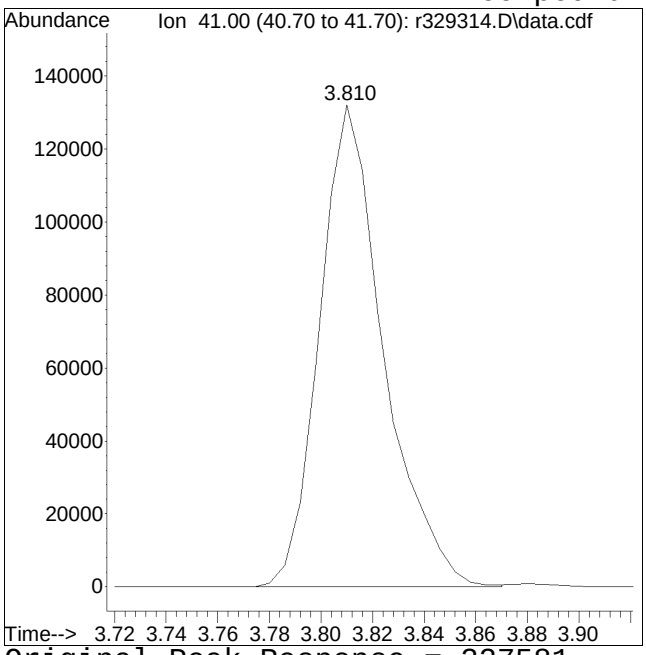


Manual Integration Report

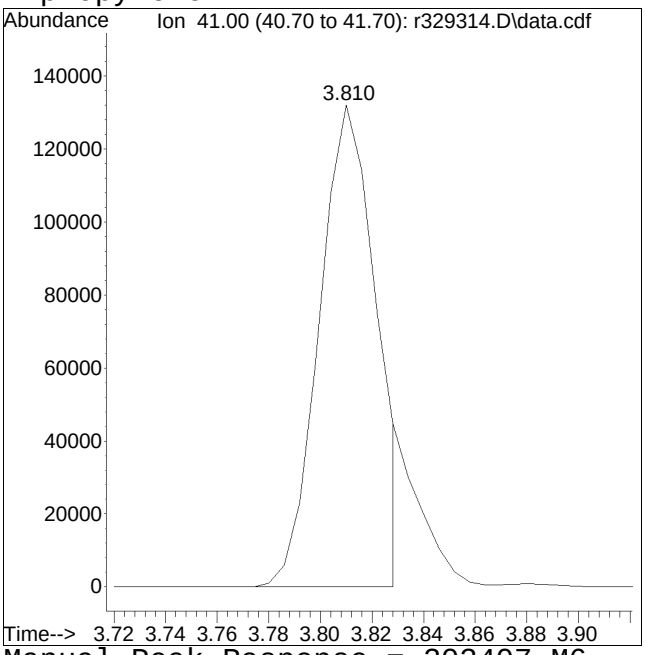
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329314.D
Date Inj'd : 2/25/2020 0:1: 1
Sample : WG1889054-2,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/25/2024 2:21 pm

Compound #3: propylene



Original Peak Response = 227581



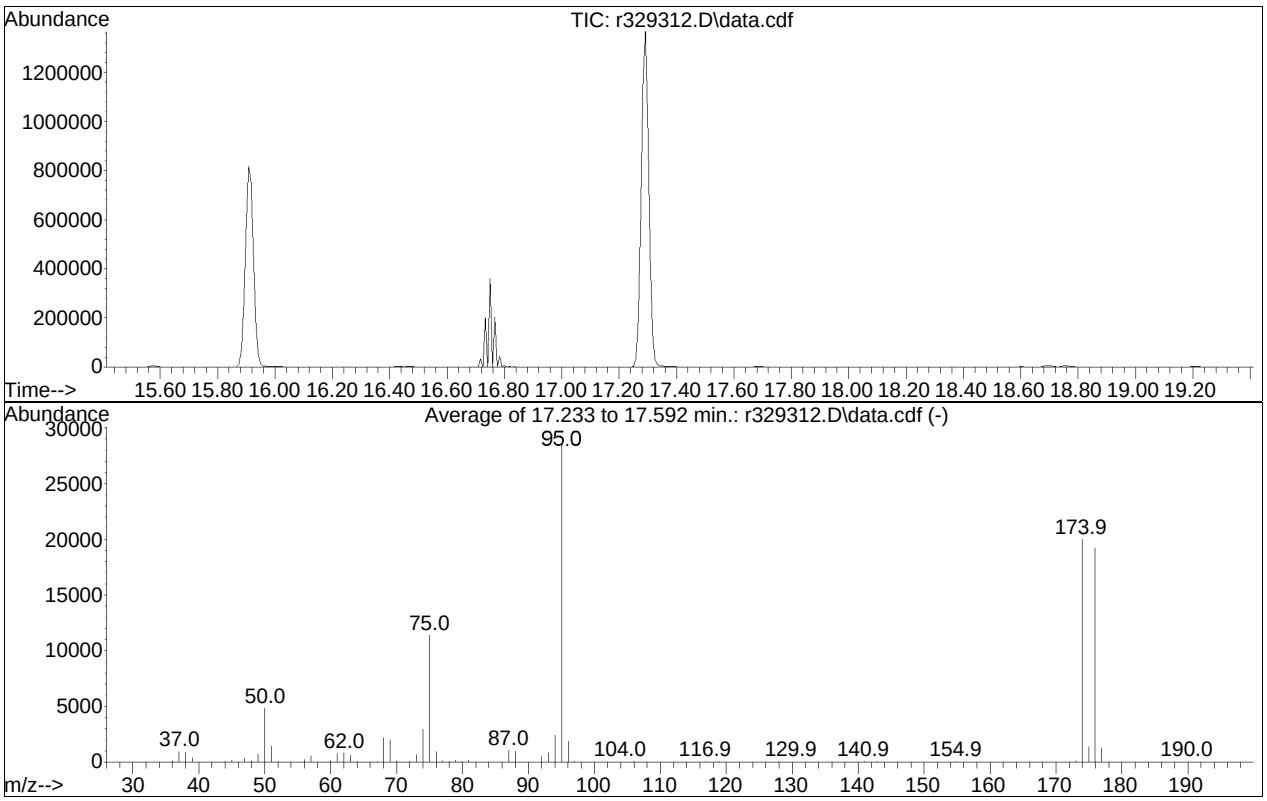
Manual Peak Response = 203407 M6

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

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329312.D
Acq On : 25 Feb 2024 12:25 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-1,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 18:15:30 2024



Spectrum Information: Average of 17.233 to 17.592 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.9	4843	PASS
75	95	30	66	39.8	11404	PASS
95	95	100	100	100.0	28676	PASS
96	95	5	9	6.5	1867	PASS
173	174	0.00	2	0.7	136	PASS
174	95	50	120	69.7	20000	PASS
175	174	4	9	7.1	1413	PASS
176	174	93	101	96.3	19268	PASS
177	176	5	9	6.7	1298	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738916.D
Acq On : 24 Feb 2024 5:09 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-4,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 17:17:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.867	49	285521	10.000	ppbV	0.02
Standard Area = 362386			Recovery = 78.79%			
43) 1,4-difluorobenzene	11.097	114	754950	10.000	ppbV	0.03
Standard Area = 978676			Recovery = 77.14%			
67) chlorobenzene-D5	15.858	54	110109	10.000	ppbV	0.02
Standard Area = 144285			Recovery = 76.31%			
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.814	41	4931	0.366	ppbV	99
5) dichlorodifluoromethane	0.000		0	N.D.		
6) chloromethane	4.036		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	4.960	31	10766	0.881	ppbV	100
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.487	43	1996	0.115	ppbV #	99
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	5.730		0	N.D.		
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.474		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
35) vinyl acetate	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738916.D
Acq On : 24 Feb 2024 5:09 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-4,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 17:17:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-dichloroethane	0.000		0	N.D.		
44) hexane	0.000		0	N.D.		
48) 1,1,1-trichloroethane	0.000		0	N.D.		
50) benzene	0.000		0	N.D.		
52) carbon tetrachloride	0.000		0	N.D.		
53) cyclohexane	0.000		0	N.D.	d	
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		
58) 1,4-dioxane	0.000		0	N.D.		
59) trichloroethene	11.897	130	778	0.037	ppbV #	84
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	13.033		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.075		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	16.250		0	N.D.		
83) m+p-xylene	16.250		0	N.D.		
84) bromoform	0.000		0	N.D.		
85) styrene	0.000		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	0.000		0	N.D.		
96) 4-ethyl toluene	0.000		0	N.D.		
97) 1,3,5-trimethylbenzene	0.000		0	N.D.		
99) 1,2,4-trimethylbenzene	0.000		0	N.D.		
101) Benzyl Chloride	0.000		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

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

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738916.D
Acq On : 24 Feb 2024 5:09 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-4,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 17:17:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

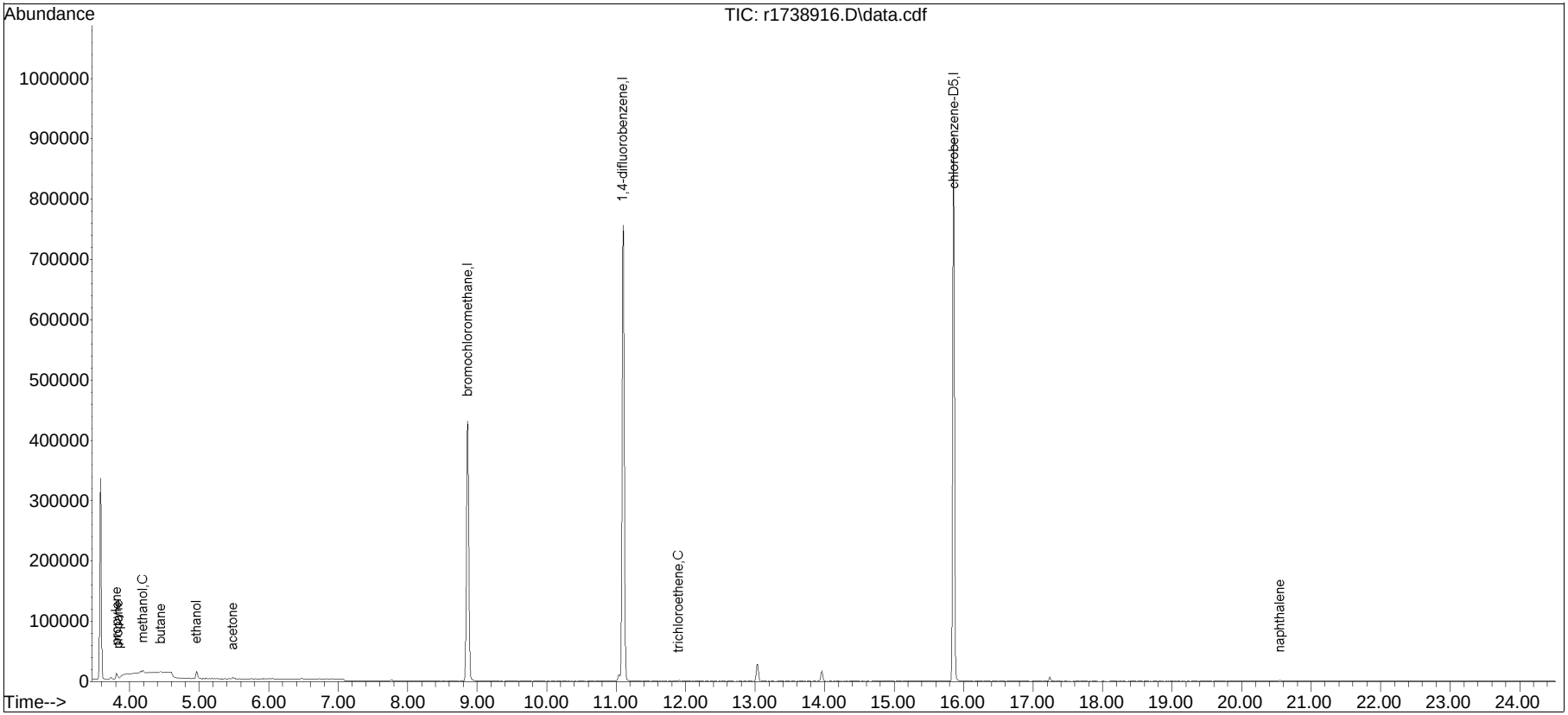
CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

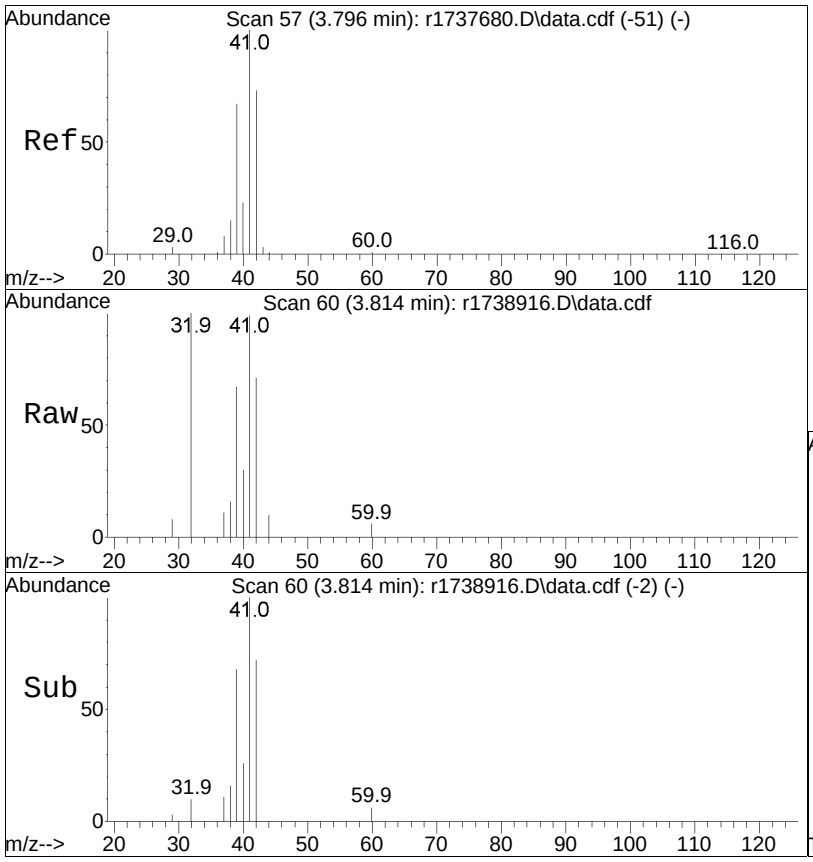
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed4T\r1738913.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738916.D
Acq On : 24 Feb 2024 5:09 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-4,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 17:17:21 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

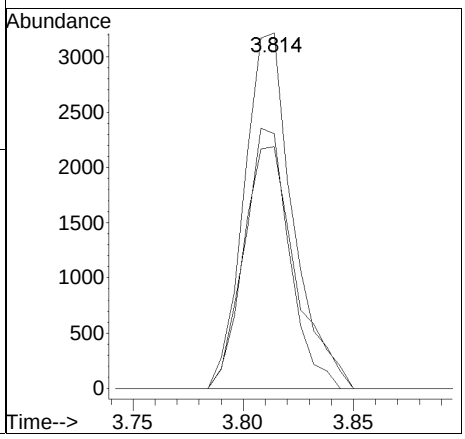


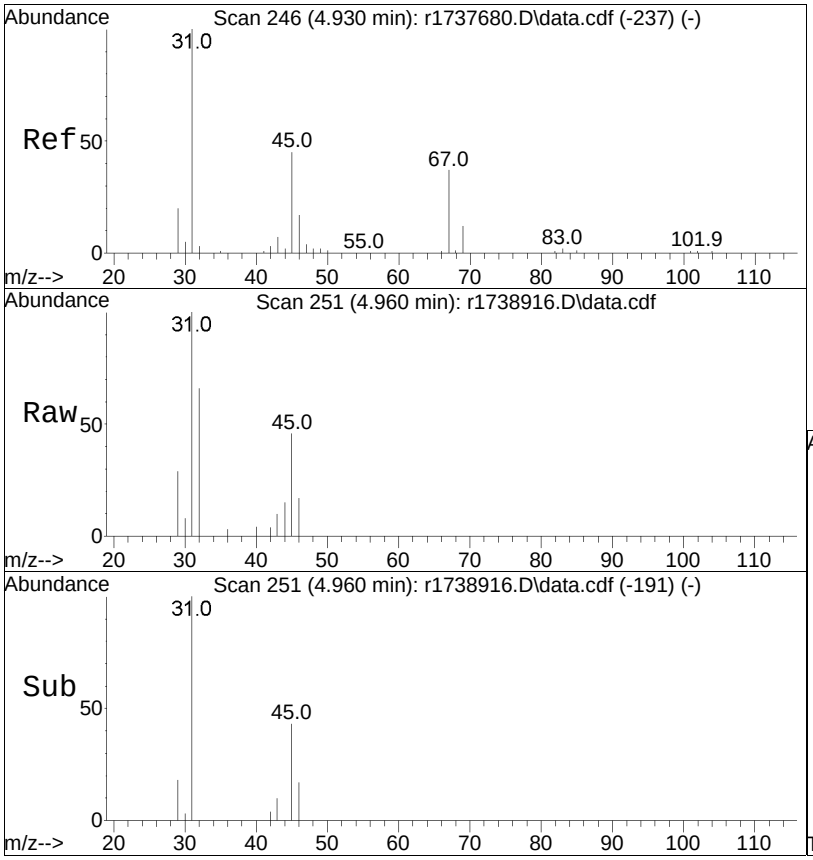


#3
propylene
Concen: 0.37 ppbV
RT: 3.814 min Scan# 60
Delta R.T. 0.018 min
Lab File: r1738916.D
Acq: 24 Feb 2024 5:09 PM

Tgt Ion: 41 Resp: 4931

Ion	Ratio	Lower	Upper
41	100		
42	71.7	58.1	87.1
39	68.1	53.7	80.5

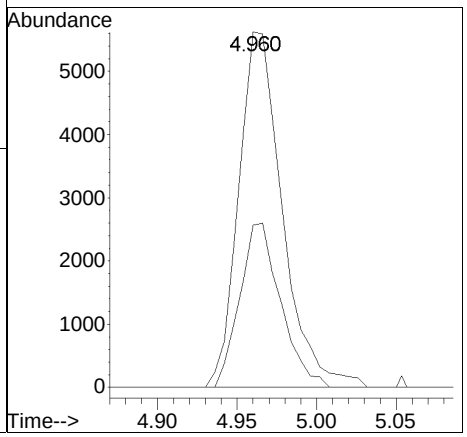


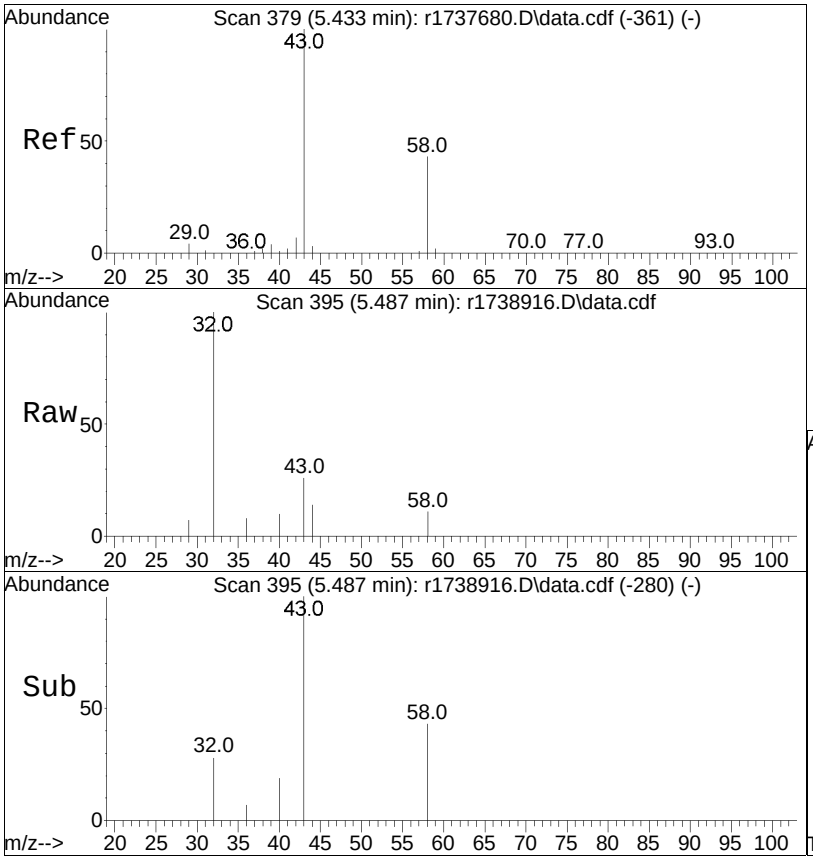


#15
ethanol
Concen: 0.88 ppbV
RT: 4.960 min Scan# 251
Delta R.T. 0.030 min
Lab File: r1738916.D
Acq: 24 Feb 2024 5:09 PM

Tgt Ion: 31 Resp: 10766

Ion	Ratio	Lower	Upper
31	100		
45	45.7	36.3	54.5

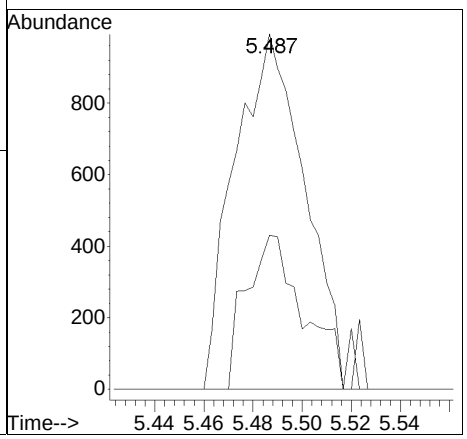


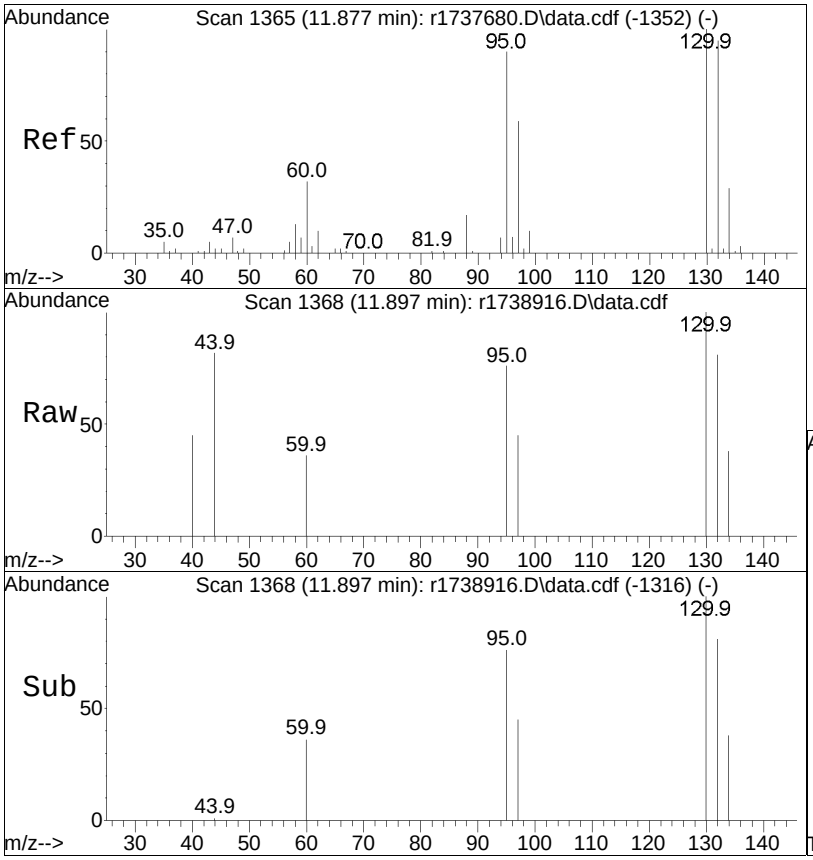


#19
acetone
Concen: 0.11 ppbV
RT: 5.487 min Scan# 395
Delta R.T. 0.053 min
Lab File: r1738916.D
Acq: 24 Feb 2024 5:09 PM

Tgt Ion: 43 Resp: 1996

Ion	Ratio	Lower	Upper
43	100		
58	43.4	34.0	51.0
57	0.0	0.9	1.3#

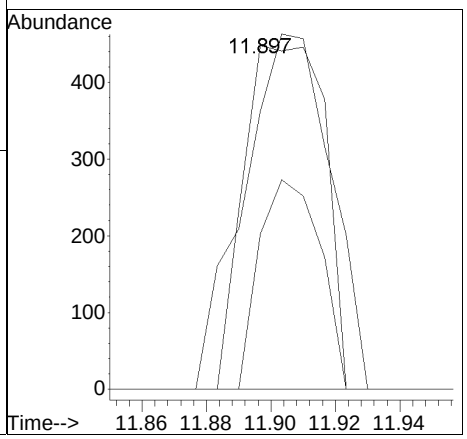




#59
trichloroethene
Concen: 0.04 ppbV
RT: 11.897 min Scan# 1368
Delta R.T. 0.020 min
Lab File: r1738916.D
Acq: 24 Feb 2024 5:09 PM

Tgt Ion:130 Resp: 778

Ion	Ratio	Lower	Upper
130	100		
132	80.8	75.8	113.8
97	45.1	47.0	70.4#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab17	QMethod	: TFS17_240107.M
Data File	: r1738916.D	Operator	: AIRLAB17:TJS
Date Inj'd	: 2/24/2020 0:5: 9	Instrument	:
Sample	: WG1888881-4,3,250,250	Quant Date	: 2/24/2024 5:17 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329316.D
Acq On : 25 Feb 2024 5:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-4,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:31:28 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	266564	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		95.13%	
43) 1,4-difluorobenzene	11.180	114	710048	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		92.41%	
67) chlorobenzene-D5	15.917	54	131338	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		91.77%	
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.816	41	749	0.041	ppbV	95
5) dichlorodifluoromethane	3.822	85	1861	0.060	ppbV	99
6) chloromethane	0.000		0	N.D.		
7) Freon-114	0.000		0	N.D.		
9) vinyl chloride	0.000		0	N.D.		
10) 1,3-butadiene	0.000		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.022	31	675	0.064	ppbV	94
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.547	43	2139	0.075	ppbV #	97
21) trichlorofluoromethane	0.000		0	N.D.		
22) isopropyl alcohol	5.830	45	1432	0.041	ppbV #	86
26) 1,1-dichloroethene	0.000		0	N.D.		
27) tertiary butyl alcohol	0.000		0	N.D.		
28) methylene chloride	6.544		0	N.D.		
29) 3-chloropropene	0.000		0	N.D.		
30) carbon disulfide	0.000		0	N.D.		
31) Freon 113	0.000		0	N.D.		
32) trans-1,2-dichloroethene	0.000		0	N.D.		
33) 1,1-dichloroethane	0.000		0	N.D.		
34) MTBE	0.000		0	N.D.		
35) vinyl acetate	0.000		0	N.D.		
36) 2-butanone	0.000		0	N.D.		
37) cis-1,2-dichloroethene	0.000		0	N.D.		
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	0.000		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329316.D
Acq On : 25 Feb 2024 5:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-4,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:31:28 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42)	1,2-dichloroethane	0.000		0	N.D.		
44)	hexane	0.000		0	N.D.		
48)	1,1,1-trichloroethane	0.000		0	N.D.		
50)	benzene	10.753		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	0.000		0	N.D.		
72)	2-hexanone	0.000		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
78)	tetrachloroethene	0.000		0	N.D.		
80)	chlorobenzene	0.000		0	N.D.		
81)	ethylbenzene	0.000		0	N.D.		
83)	m+p-xylene	0.000		0	N.D.		
84)	bromoform	0.000		0	N.D.		
85)	styrene	0.000		0	N.D.		
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87)	o-xylene	0.000		0	N.D.		
96)	4-ethyl toluene	0.000		0	N.D.		
97)	1,3,5-trimethylbenzene	0.000		0	N.D.		
99)	1,2,4-trimethylbenzene	0.000		0	N.D.		
101)	Benzyl Chloride	0.000		0	N.D.		
102)	1,3-dichlorobenzene	0.000		0	N.D.		
103)	1,4-dichlorobenzene	0.000		0	N.D.		
107)	1,2-dichlorobenzene	0.000		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329316.D
Acq On : 25 Feb 2024 5:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-4,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:31:28 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

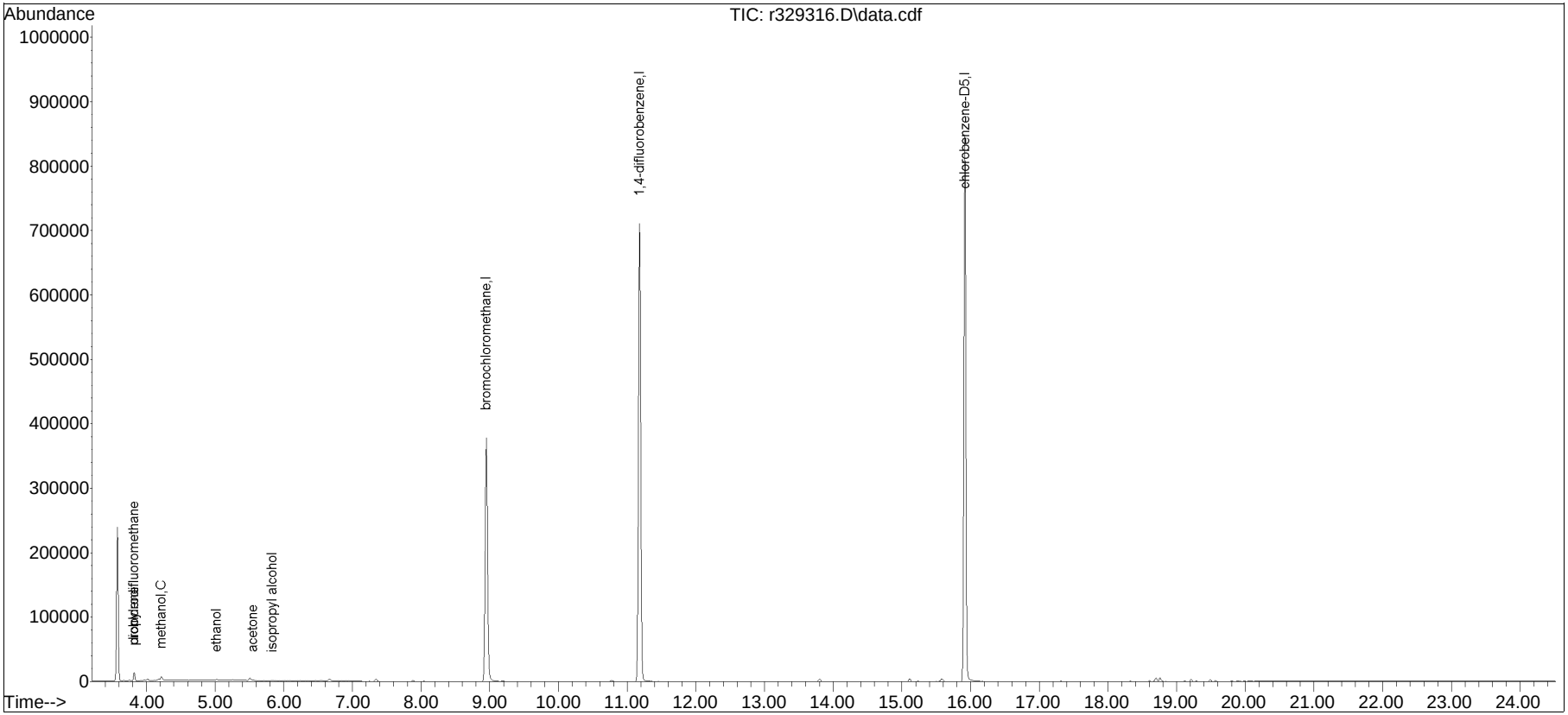
CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

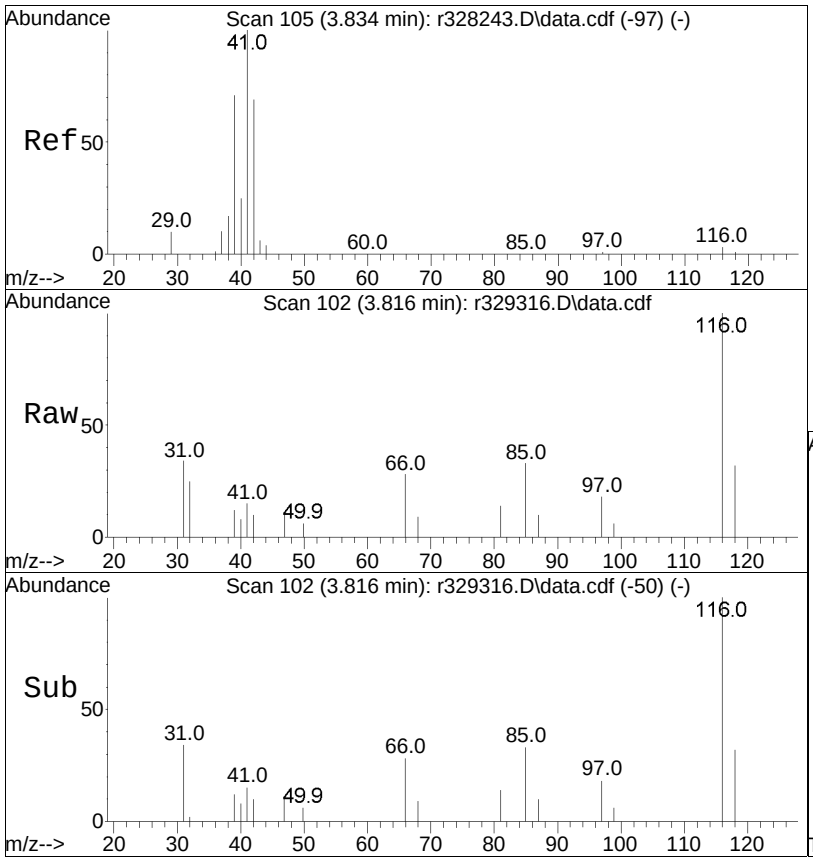
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed25T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329316.D
Acq On : 25 Feb 2024 5:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-4,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:31:28 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

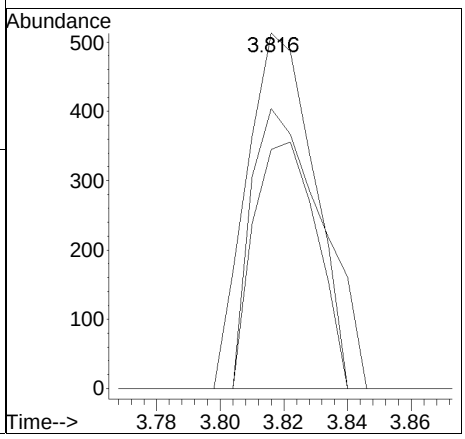


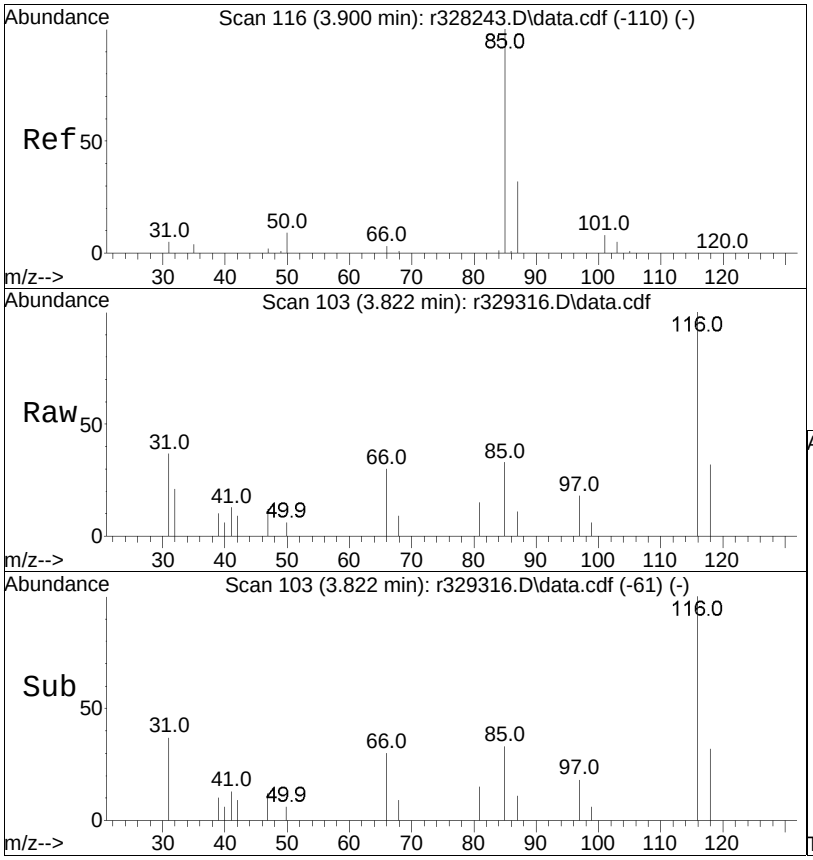


#3
propylene
Concen: 0.04 ppbV
RT: 3.816 min Scan# 102
Delta R.T. -0.018 min
Lab File: r329316.D
Acq: 25 Feb 2024 5:13 PM

Tgt Ion: 41 Resp: 749

Ion	Ratio	Lower	Upper
41	100		
42	67.3	55.0	82.4
39	78.8	57.1	85.7

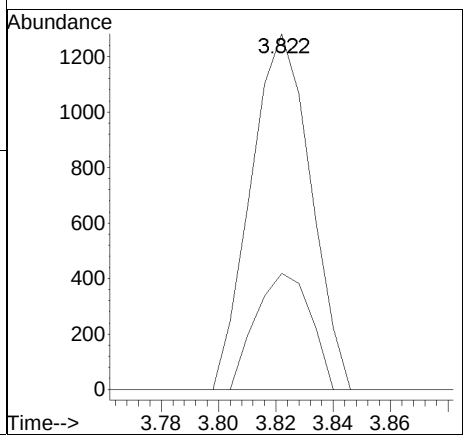


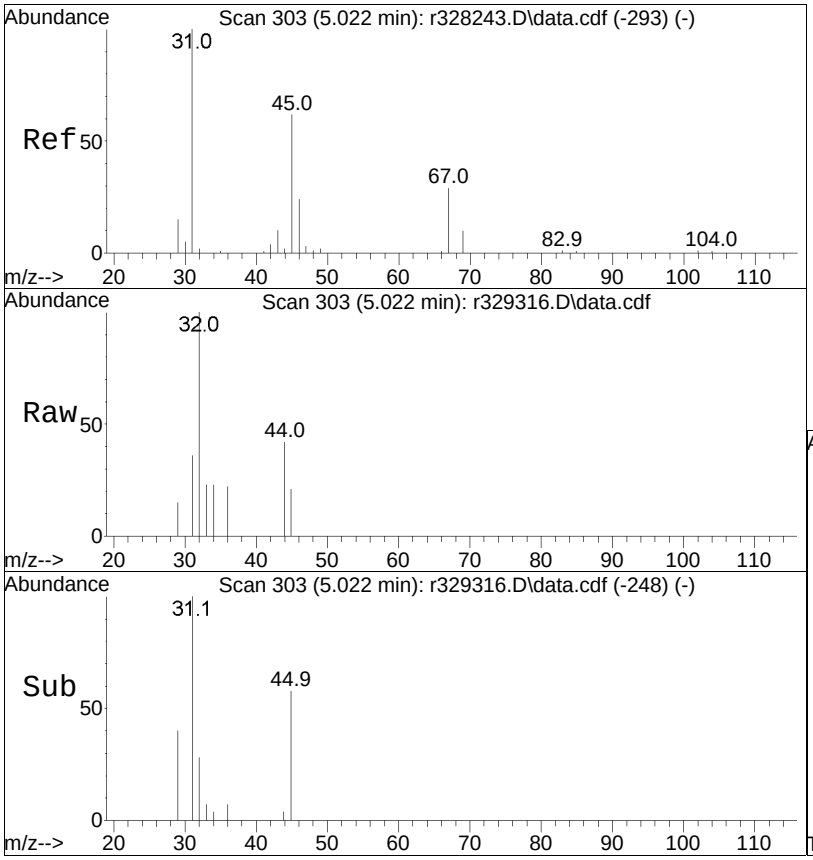


#5
dichlorodifluoromethane
Concen: 0.06 ppbV
RT: 3.822 min Scan# 103
Delta R.T. -0.078 min
Lab File: r329316.D
Acq: 25 Feb 2024 5:13 PM

Tgt Ion: 85 Resp: 1861

Ion	Ratio	Lower	Upper
85	100		
87	32.7	25.7	38.5

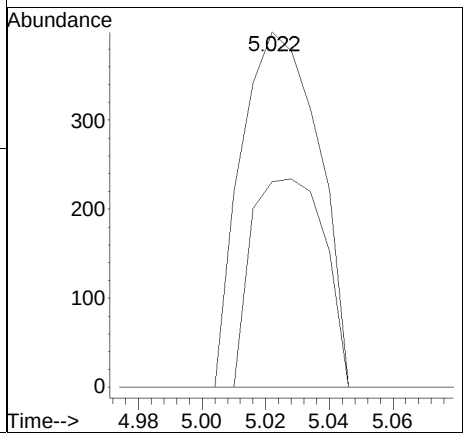


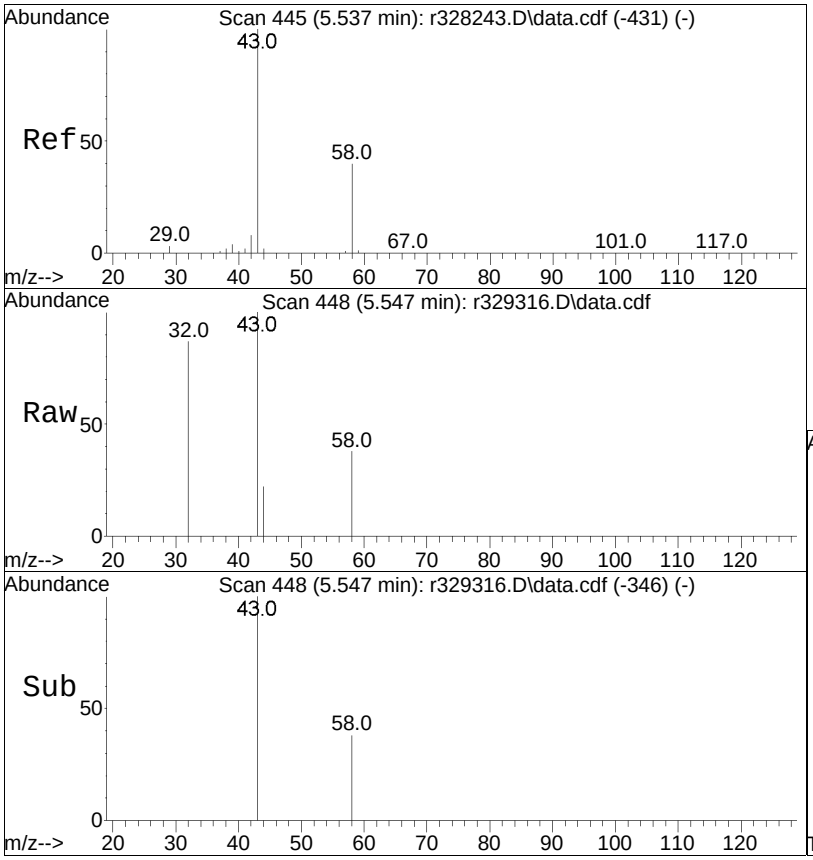


#15
ethanol
Concen: 0.06 ppbV
RT: 5.022 min Scan# 303
Delta R.T. 0.000 min
Lab File: r329316.D
Acq: 25 Feb 2024 5:13 PM

Tgt Ion: 31 Resp: 675

Ion	Ratio	Lower	Upper
31	100		
45	57.9	49.8	74.6

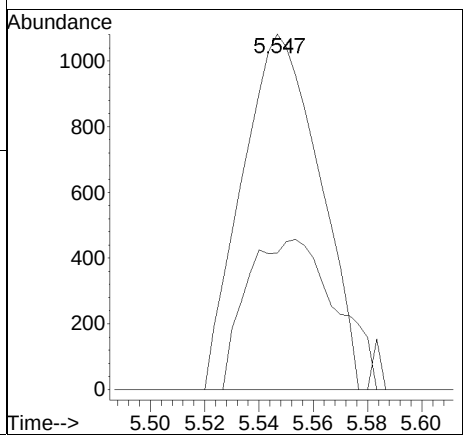


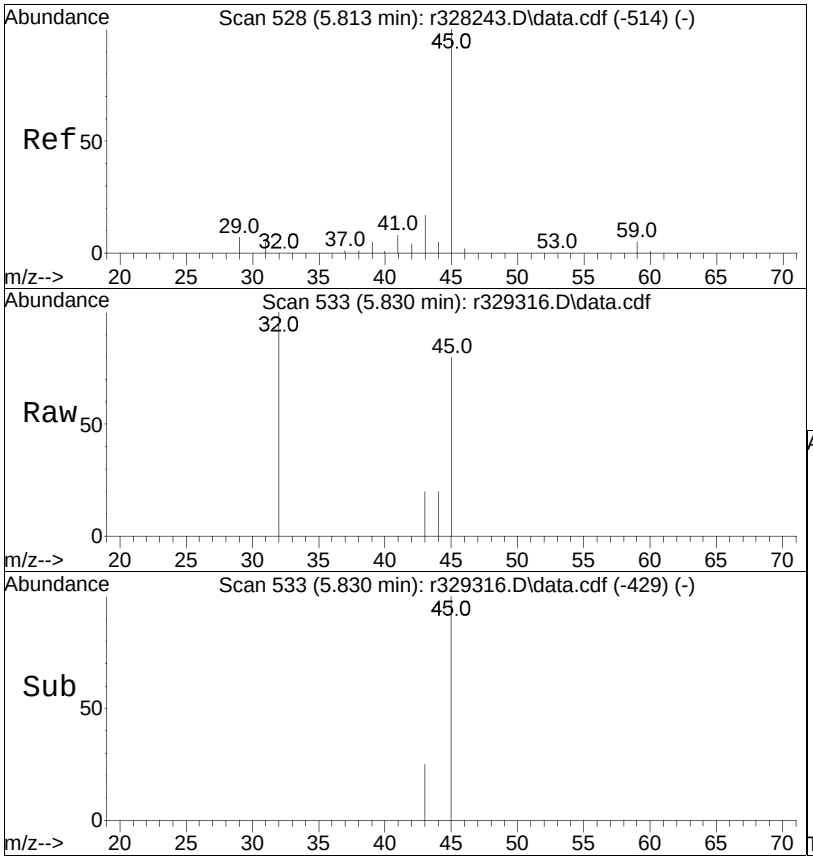


#19
acetone
Concen: 0.08 ppbV
RT: 5.547 min Scan# 448
Delta R.T. 0.010 min
Lab File: r329316.D
Acq: 25 Feb 2024 5:13 PM

Tgt Ion: 43 Resp: 2139

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.9	47.9
57	0.0	0.9	1.3#

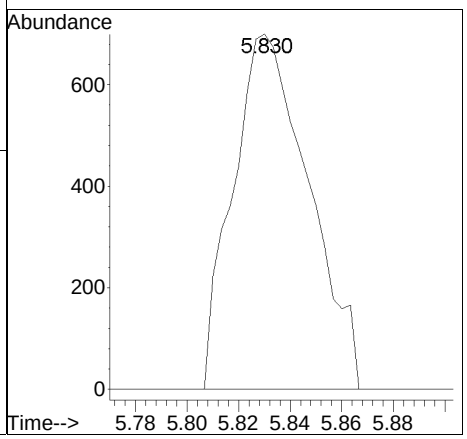




#22
isopropyl alcohol
Concen: 0.04 ppbV
RT: 5.830 min Scan# 533
Delta R.T. 0.017 min
Lab File: r329316.D
Acq: 25 Feb 2024 5:13 PM

Tgt Ion: 45 Resp: 1432

Ion	Ratio	Lower	Upper
45	100		
59	0.0	3.7	5.5#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TFS3_231230.M
Data File	: r329316.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:5: 3	Instrument	:
Sample	: WG1889054-4,3,250,250	Quant Date	: 2/25/2024 8:31 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	82	0.02
2		chlorodifluoromethane	10.000	8.835	11.6	74	0.02
3		propylene	10.000	8.451	15.5	77	0.02
4		propane	10.000	8.682	13.2	75	0.02
5		dichlorodifluoromethane	10.000	10.698	-7.0	86	0.02
6	C	chloromethane	10.000	8.231	17.7	66	0.02
7		Freon-114	10.000	10.292	-2.9	82	0.02
8	C	methanol	50.000	42.449	15.1	72	0.02
9	C	vinyl chloride	10.000	9.992	0.1	81	0.02
10	C	1,3-butadiene	10.000	9.196	8.0	75	0.02
11		butane	10.000	8.850	11.5	76	0.02
13	C	bromomethane	10.000	10.468	-4.7	85	0.02
14	C	chloroethane	10.000	10.404	-4.0	86	0.02
15		ethanol	50.000	49.210	1.6	79	0.03
16		dichlorofluoromethane	10.000	10.372	-3.7	88	0.02
17	C	vinyl bromide	10.000	10.015	-0.2	82	0.03
18	C	acrolein	10.000	8.631	13.7	76	0.03
19		acetone	50.000	47.523	5.0	82	0.03
20	C	acetonitrile	10.000	9.868	1.3	85	0.03
21		trichlorofluoromethane	10.000	11.962	-19.6	97	0.03
22		isopropyl alcohol	25.000	19.426	22.3	63	0.03
23	C	acrylonitrile	10.000	9.696	3.0	83	0.03
24		pentane	10.000	10.316	-3.2	89	0.03
25		ethyl ether	10.000	11.335	-13.4	102	0.03
26	C	1,1-dichloroethene	10.000	11.137	-11.4	91	0.03
27		tertiary butyl alcohol	10.000	8.898	11.0	75	0.03
28	C	methylene chloride	10.000	10.668	-6.7	92	0.03
29	C	3-chloropropene	10.000	9.715	2.9	80	0.03
30	C	carbon disulfide	10.000	9.340	6.6	74	0.04
31		Freon 113	10.000	10.526	-5.3	85	0.03
32		trans-1,2-dichloroethene	10.000	10.125	-1.3	82	0.03
33	C	1,1-dichloroethane	10.000	10.247	-2.5	82	0.03
34	C	MTBE	10.000	9.029	9.7	74	0.02
35	C	vinyl acetate	10.000	8.814	11.9	71	0.03
36	C	2-butanone	10.000	9.808	1.9	79	0.03
37		cis-1,2-dichloroethene	10.000	10.392	-3.9	84	0.03
38		Ethyl Acetate	10.000	10.452	-4.5	85	0.02
39	C	chloroform	10.000	10.944	-9.4	89	0.03
40		Tetrahydrofuran	10.000	9.143	8.6	73	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	10.000	9.685	3.1	81	0.03
42	C	1,2-dichloroethane	10.000	11.166	-11.7	93	0.03
43	I	1,4-difluorobenzene	10.000	10.000	0.0	84	0.03
44	C	hexane	10.000	10.143	-1.4	87	0.03
45		diisopropyl ether	10.000	8.788	12.1	78	0.03
46		tert-butyl ethyl ether	10.000	8.621	13.8	76	0.03
48	C	1,1,1-trichloroethane	10.000	10.550	-5.5	90	0.03
49		1,1-dichloropropene	10.000	9.247	7.5	80	0.03
50	C	benzene	10.000	8.996	10.0	75	0.03
52	C	carbon tetrachloride	10.000	11.667	-16.7	95	0.03
53		cyclohexane	10.000	10.114	-1.1	87	0.03
54		tert-amyl methyl ether	10.000	7.814	21.9	68	0.03
55		dibromomethane	10.000	10.397	-4.0	91	0.03
56	C	1,2-dichloropropane	10.000	9.775	2.2	81	0.03
57		bromodichloromethane	10.000	11.579	-15.8	95	0.03
58	C	1,4-dioxane	10.000	10.018	-0.2	83	0.03
59	C	trichloroethene	10.000	10.263	-2.6	85	0.03
60	C	2,2,4-trimethylpentane	10.000	9.916	0.8	88	0.03
61		methyl methacrylate	10.000	10.128	-1.3	84	0.03
62		heptane	10.000	9.243	7.6	77	0.03
63	C	cis-1,3-dichloropropene	10.000	8.900	11.0	72	0.02
64	C	4-methyl-2-pentanone	10.000	9.154	8.5	75	0.03
65		trans-1,3-dichloropropene	10.000	9.054	9.5	73	0.02
66	C	1,1,2-trichloroethane	10.000	9.988	0.1	82	0.03
67	I	chlorobenzene-D5	10.000	10.000	0.0	92	0.02
68	C	toluene	10.000	8.989	10.1	81	0.03
71		1,3-dichloropropane	10.000	8.505	14.9	80	0.03
72		2-hexanone	10.000	8.275	17.2	70	0.02
74		dibromochloromethane	10.000	12.034	-20.3	104	0.03
75	C	1,2-dibromoethane	10.000	9.127	8.7	81	0.03
76		butyl acetate	10.000	7.915	20.8	71	0.02
77		octane	10.000	8.544	14.6	82	0.03
78	C	tetrachloroethene	10.000	9.353	6.5	84	0.03
79		1,1,1,2-tetrachloroethane	10.000	10.062	-0.6	93	0.03
80	C	chlorobenzene	10.000	8.980	10.2	80	0.03
81	C	ethylbenzene	10.000	9.169	8.3	81	0.02
83	C	m+p-xylene	20.000	18.842	5.8	83	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84	C	bromoform	10.000	12.306	-23.1	104	0.02
85	C	styrene	10.000	8.593	14.1	74	0.03
86	C	1,1,2,2-tetrachloroethane	10.000	9.833	1.7	87	0.02
87	C	o-xylene	10.000	9.529	4.7	84	0.02
88		1,2,3-trichloropropane	10.000	8.634	13.7	82	0.02
89		nonane	10.000	7.588	24.1	70	0.02
91	C	isopropylbenzene	10.000	9.034	9.7	85	0.02
92		bromobenzene	10.000	8.639	13.6	82	0.02
93		2-chlorotoluene	10.000	8.825	11.8	83	0.02
94		n-propylbenzene	10.000	9.114	8.9	86	0.03
95		4-chlorotoluene	10.000	8.992	10.1	83	0.02
96		4-ethyl toluene	10.000	9.219	7.8	83	0.03
97		1,3,5-trimethylbenzene	10.000	9.798	2.0	87	0.02
98		tert-butylbenzene	10.000	9.003	10.0	84	0.02
99		1,2,4-trimethylbenzene	10.000	8.827	11.7	78	0.02
100		decane	10.000	8.554	14.5	80	0.03
101	C	Benzyl Chloride	10.000	8.688	13.1	75	0.02
102		1,3-dichlorobenzene	10.000	9.511	4.9	83	0.02
103	C	1,4-dichlorobenzene	10.000	9.455	5.4	81	0.02
104		sec-butylbenzene	10.000	8.383	16.2	79	0.03
106		p-isopropyltoluene	10.000	8.098	19.0	76	0.02
107		1,2-dichlorobenzene	10.000	9.176	8.2	81	0.03
108		n-butylbenzene	10.000	8.727	12.7	82	0.02
111	C	1,2-dibromo-3-chloropropane	10.000	8.605	13.9	79	0.02
112		undecane	10.000	8.362	16.4	78	0.03
114		dodecane	10.000	7.878	21.2	71	0.06
115	C	1,2,4-trichlorobenzene	10.000	7.329	26.7	60	0.03
116		naphthalene	10.000	7.180	28.2	68	0.03
117		1,2,3-trichlorobenzene	10.000	7.631	23.7	72	0.03
119	C	hexachlorobutadiene	10.000	9.278	7.2	79	0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.867	49	349274	10.000	ppbV	0.02
Standard Area = 362386			Recovery =		96.38%	
43) 1,4-difluorobenzene	11.103	114	947928	10.000	ppbV	0.03
Standard Area = 978676			Recovery =		96.86%	
67) chlorobenzene-D5	15.858	54	141727	10.000	ppbV	0.02
Standard Area = 144285			Recovery =		98.23%	
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.814	41	139156M6	8.451	ppbV	
5) dichlorodifluoromethane	3.886	85	354165	10.698	ppbV	100
6) chloromethane	4.042	50	144768	8.231	ppbV	99
7) Freon-114	4.144	85	414927	10.292	ppbV	99
9) vinyl chloride	4.258	62	182372	9.992	ppbV	99
10) 1,3-butadiene	4.396	54	144505	9.196	ppbV #	82
13) bromomethane	4.666	94	156920	10.468	ppbV	98
14) chloroethane	4.846	64	87743	10.404	ppbV	98
15) ethanol	4.960	31	735638	49.210	ppbV	94
17) vinyl bromide	5.210	106	144051	10.015	ppbV	99
19) acetone	5.463	43	1010573	47.523	ppbV	98
21) trichlorofluoromethane	5.657	101	313393	11.962	ppbV	99
22) isopropyl alcohol	5.730	45	536773	19.426	ppbV	99
26) 1,1-dichloroethene	6.342	61	263082	11.137	ppbV	98
27) tertiary butyl alcohol	6.378	59	286236	8.898	ppbV #	82
28) methylene chloride	6.480	49	249784	10.668	ppbV	98
29) 3-chloropropene	6.612	41	254014	9.715	ppbV	94
30) carbon disulfide	6.780	76	544256	9.340	ppbV	99
31) Freon 113	6.780	101	357103	10.526	ppbV	98
32) trans-1,2-dichloroethene	7.517	61	248890	10.125	ppbV	99
33) 1,1-dichloroethane	7.742	63	318097	10.247	ppbV	99
34) MTBE	7.800	73	414163	9.029	ppbV	98
35) vinyl acetate	7.925	43	371995	8.814	ppbV	98
36) 2-butanone	8.175	43	418759	9.808	ppbV	99
37) cis-1,2-dichloroethene	8.683	61	240275	10.392	ppbV	96
38) Ethyl Acetate	8.950	61	62087	10.452	ppbV	91
39) chloroform	9.025	83	359223	10.944	ppbV	99
40) Tetrahydrofuran	9.450	42	221427	9.143	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) 1,2-dichloroethane	9.858	62	208874	11.166	ppbV	93
44) hexane	8.942	57	318071	10.143	ppbV	92
48) 1,1,1-trichloroethane	10.150	97	288085	10.550	ppbV	97
50) benzene	10.677	78	631999	8.996	ppbV	98
52) carbon tetrachloride	10.850	117	299974	11.667	ppbV	99
53) cyclohexane	10.990	56	339161	10.114	ppbV	96
56) 1,2-dichloropropane	11.623	63	211053	9.775	ppbV	99
57) bromodichloromethane	11.850	83	381488	11.579	ppbV	100
58) 1,4-dioxane	11.883	88	135433	10.018	ppbV	99
59) trichloroethene	11.903	130	274336	10.263	ppbV	99
60) 2,2,4-trimethylpentane	11.957	57	1032760	9.916	ppbV	99
62) heptane	12.277	43	408170	9.243	ppbV	90
63) cis-1,3-dichloropropene	12.917	75	313122	8.900	ppbV	97
64) 4-methyl-2-pentanone	12.958	43	479207	9.154	ppbV	94
65) trans-1,3-dichloropropene	13.542	75	249008	9.054	ppbV	97
66) 1,1,2-trichloroethane	13.742	97	239601	9.988	ppbV	96
68) toluene	14.075	91	700403	8.989	ppbV	97
72) 2-hexanone	14.358	43	418216	8.275	ppbV	93
74) dibromochloromethane	14.525	129	395889	12.034	ppbV	99
75) 1,2-dibromoethane	14.775	107	365510	9.127	ppbV	98
78) tetrachloroethene	15.250	166	290988	9.353	ppbV	91
80) chlorobenzene	15.900	112	601030	8.980	ppbV	100
81) ethylbenzene	16.250	91	900086	9.169	ppbV	97
83) m+p-xylene	16.417	91	1465571	18.842	ppbV	97
84) bromoform	16.475	173	312968	12.306	ppbV	98
85) styrene	16.742	104	565567	8.593	ppbV	96
86) 1,1,2,2-tetrachloroethane	16.833	83	576708	9.833	ppbV	99
87) o-xylene	16.833	91	741712	9.529	ppbV	97
96) 4-ethyl toluene	17.917	105	989199	9.219	ppbV	97
97) 1,3,5-trimethylbenzene	17.975	105	906589	9.798	ppbV	95
99) 1,2,4-trimethylbenzene	18.325	105	812837	8.827	ppbV	97
101) Benzyl Chloride	18.442	91	445200	8.688	ppbV	98
102) 1,3-dichlorobenzene	18.450	146	526583	9.511	ppbV	95
103) 1,4-dichlorobenzene	18.508	146	509748	9.455	ppbV	95
107) 1,2-dichlorobenzene	18.800	146	484324	9.176	ppbV	99
115) 1,2,4-trichlorobenzene	20.392	180	256443	7.329	ppbV	99
119) hexachlorobutadiene	20.892	225	313071	9.278	ppbV	98

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

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

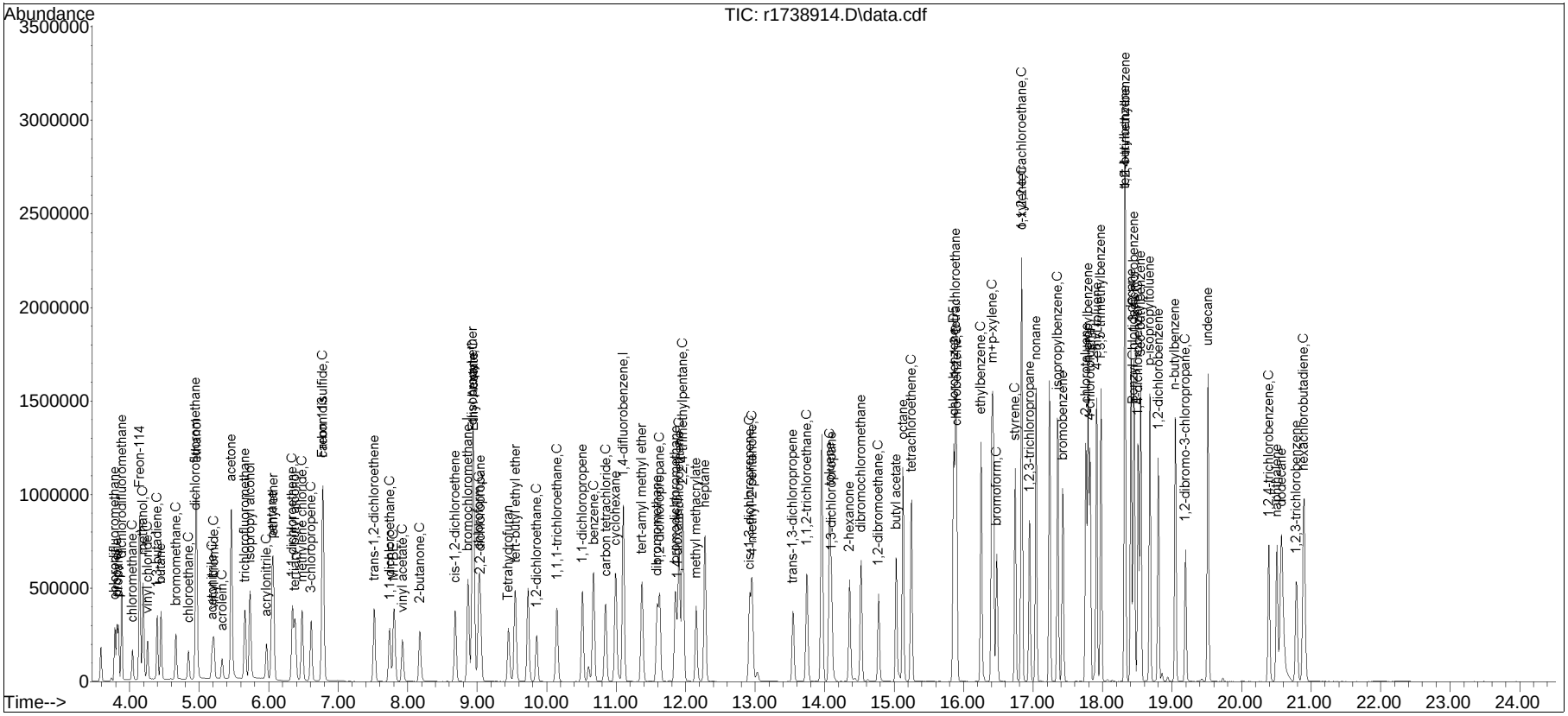
CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : Default-LCS-AP2 - All compounds listed

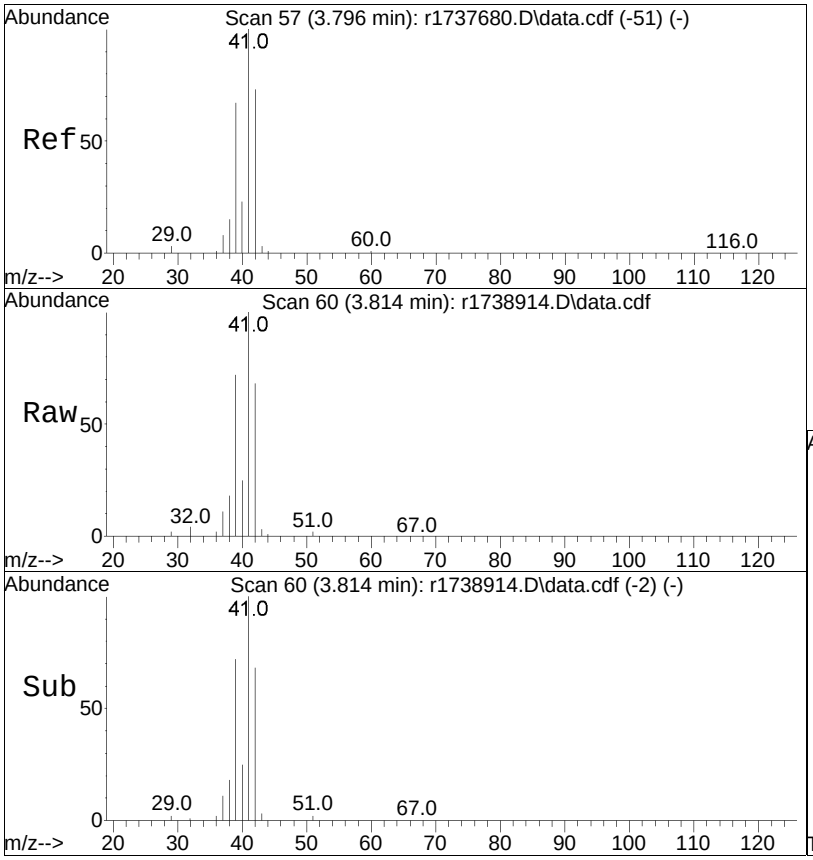
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed4T\r1738913.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738914.D
Acq On : 24 Feb 2024 1:23 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-3,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 13:38:05 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

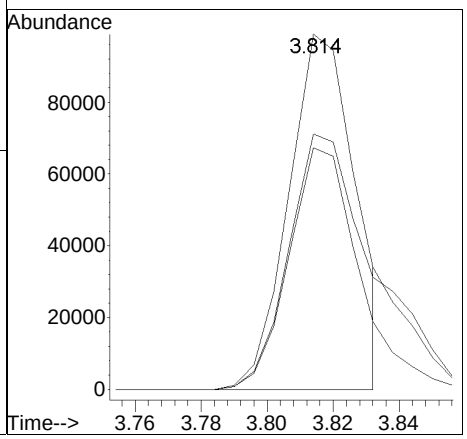


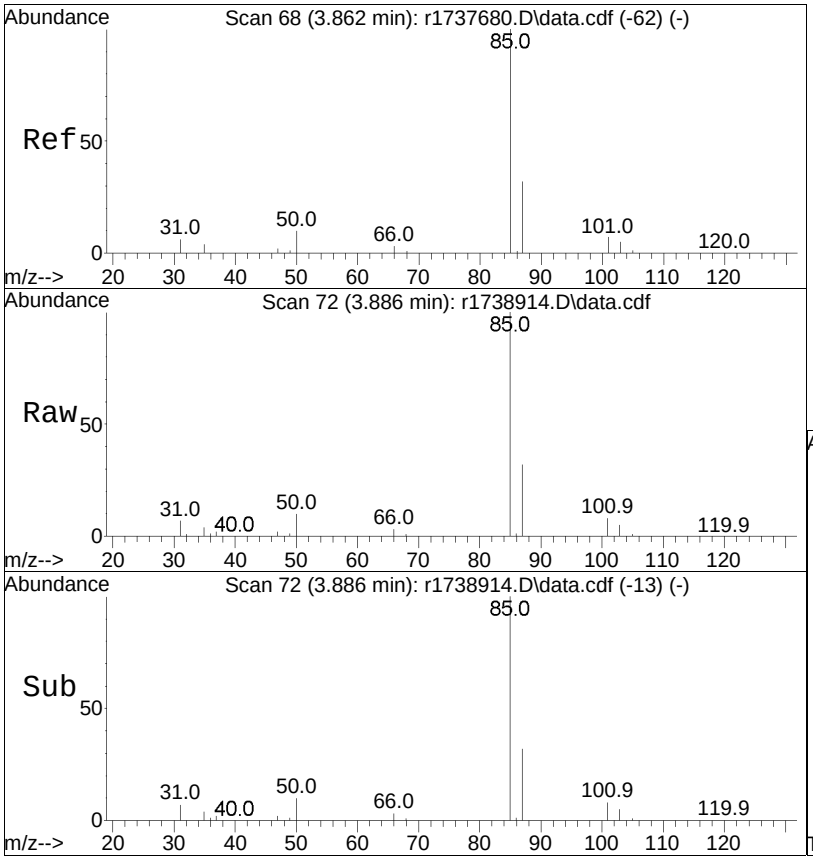


#3
propylene
Concen: 8.45 ppbV m
RT: 3.814 min Scan# 60
Delta R.T. 0.018 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 41 Resp: 139156

Ion	Ratio	Lower	Upper
41	100		
42	68.0	58.1	87.1
39	71.9	53.7	80.5

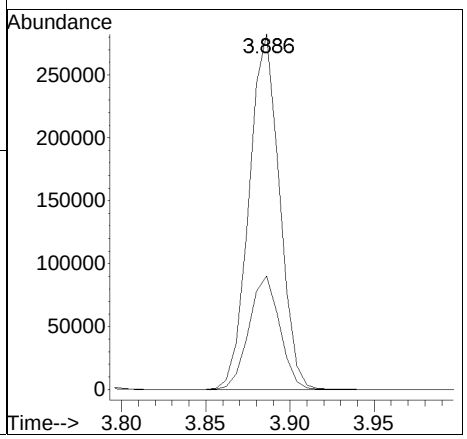


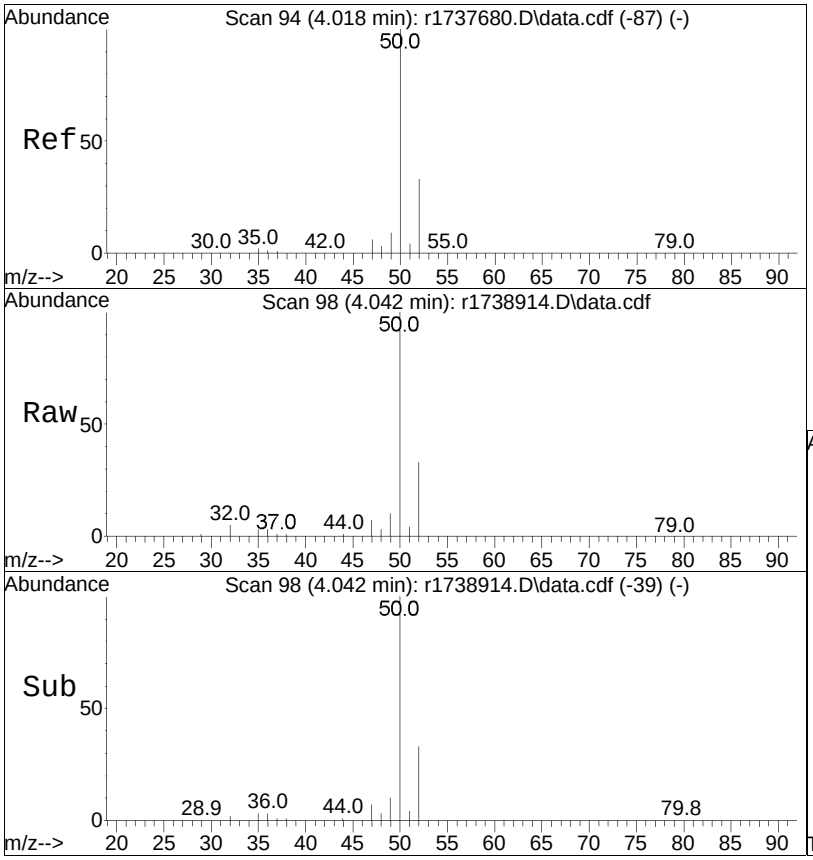


#5
dichlorodifluoromethane
Concen: 10.70 ppbV
RT: 3.886 min Scan# 72
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 85 Resp: 354165

Ion	Ratio	Lower	Upper
85	100		
87	31.9	25.4	38.0

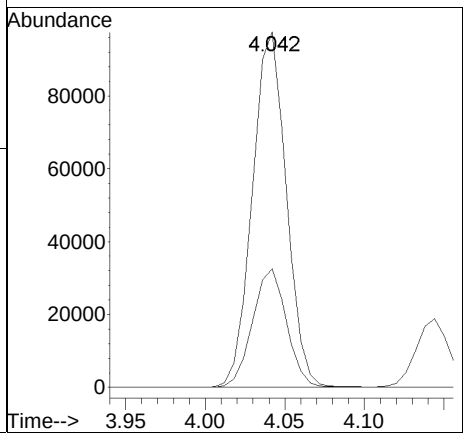


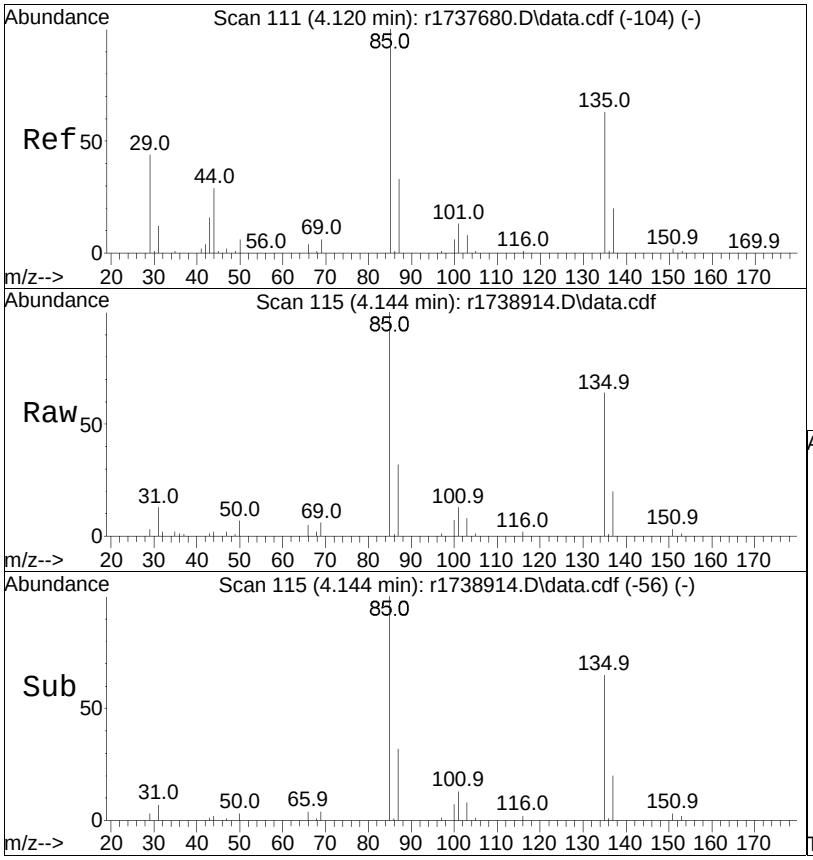


#6
chloromethane
Concen: 8.23 ppbV
RT: 4.042 min Scan# 98
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 50 Resp: 144768

Ion	Ratio	Lower	Upper
50	100		
52	33.4	26.4	39.6

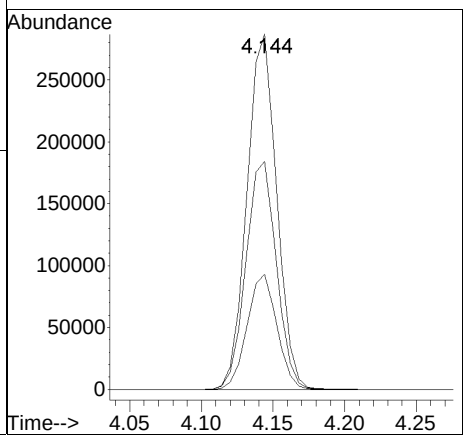


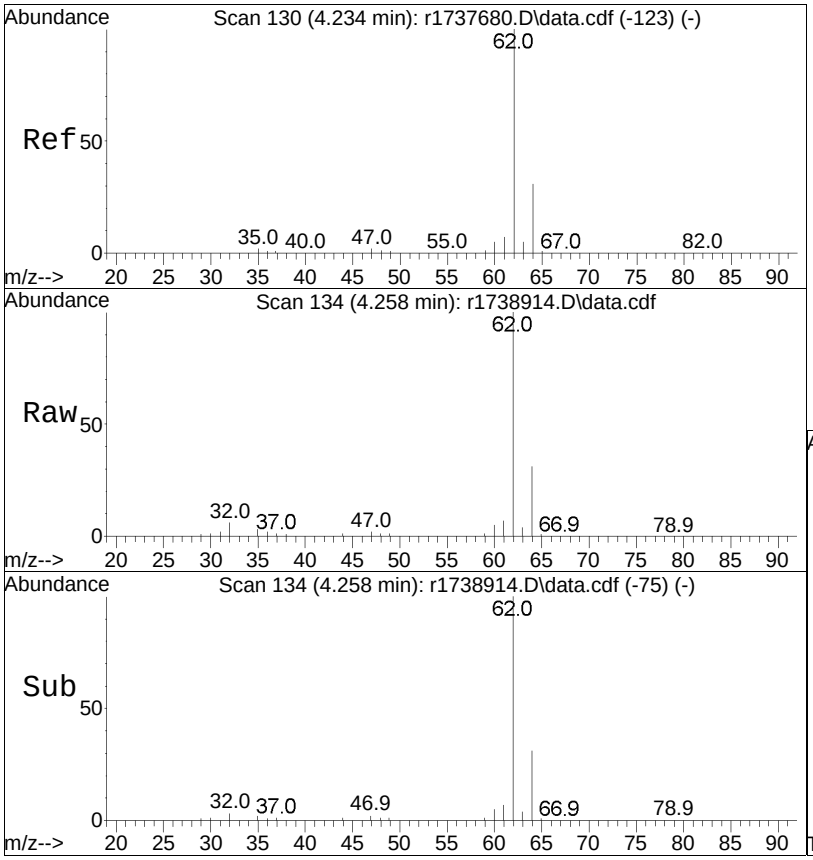


#7
Freon-114
Concen: 10.29 ppbV
RT: 4.144 min Scan# 115
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 85 Resp: 414927

Ion	Ratio	Lower	Upper
85	100		
87	32.4	26.2	39.4
135	64.1	50.6	75.8

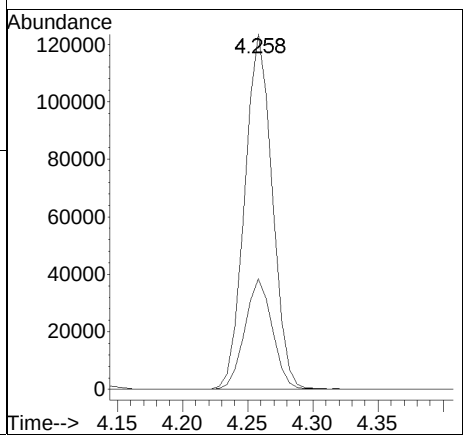


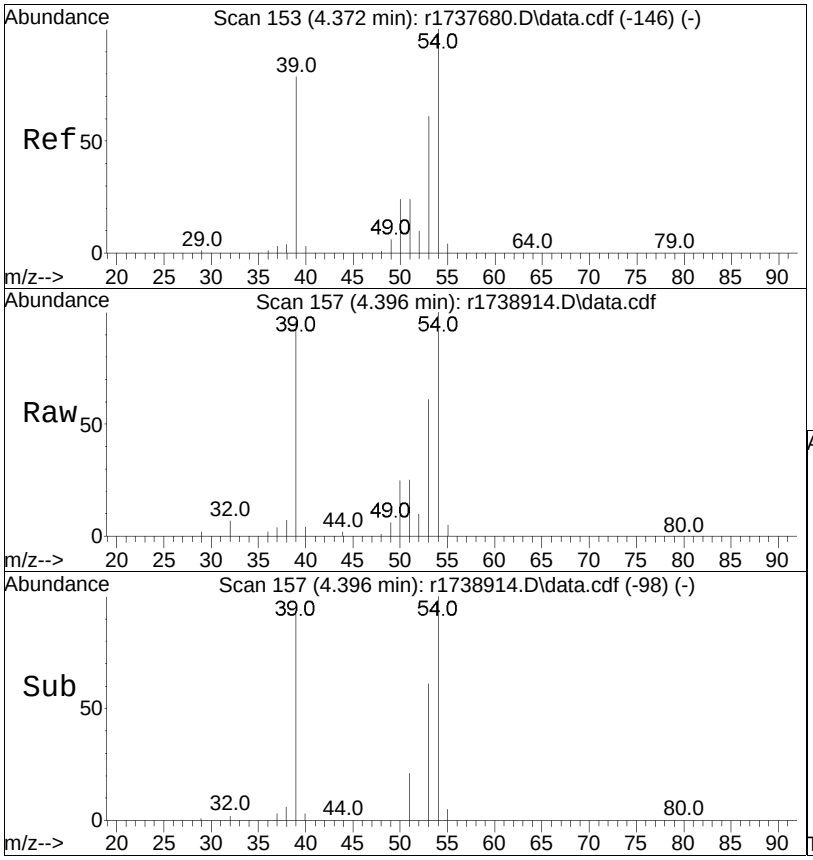


#9
vinyl chloride
Concen: 9.99 ppbV
RT: 4.258 min Scan# 134
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 62 Resp: 182372

Ion	Ratio	Lower	Upper
62	100		
64	31.1	24.5	36.7

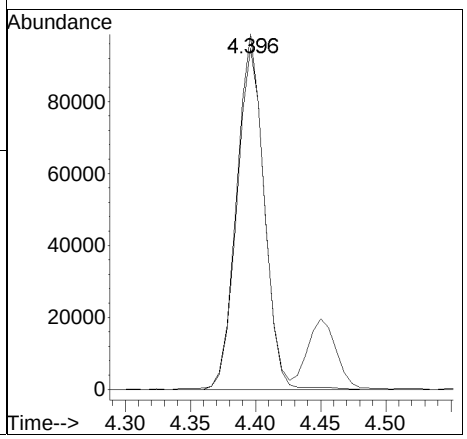


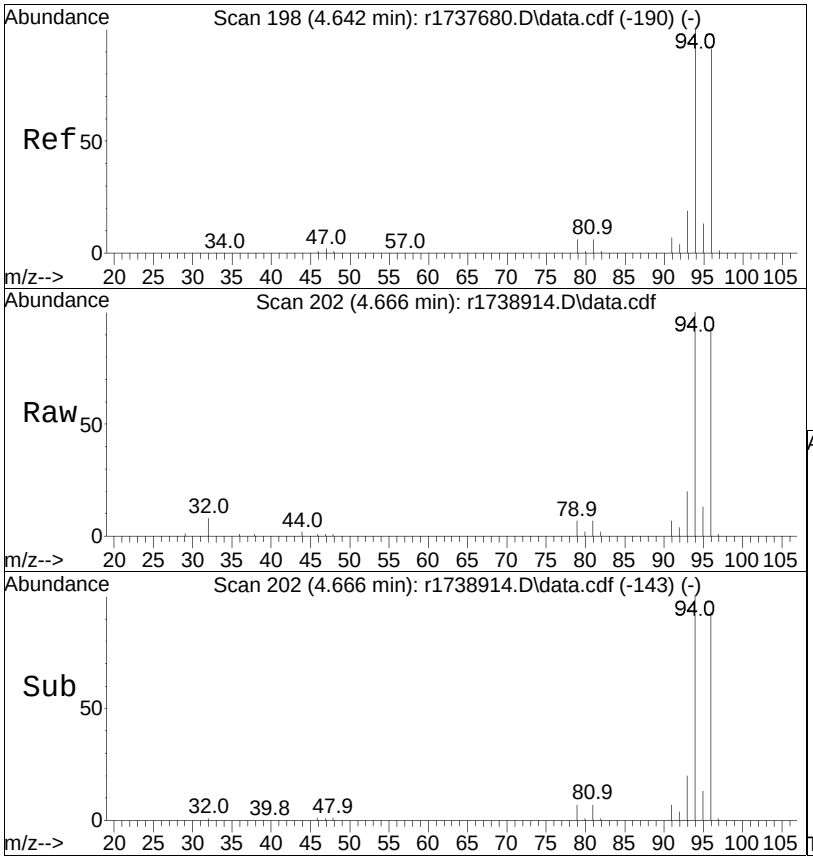


#10
1,3-butadiene
Concen: 9.20 ppbV
RT: 4.396 min Scan# 157
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 54 Resp: 144505

Ion	Ratio	Lower	Upper
54	100		
39	96.0	63.8	95.8#

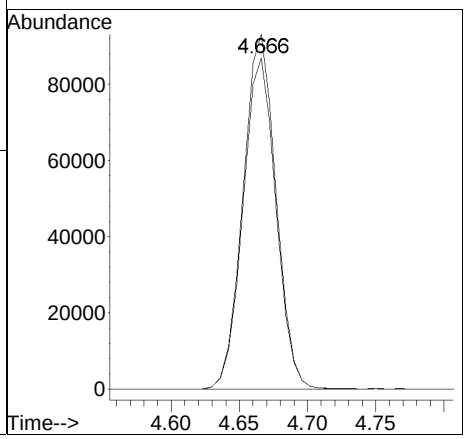


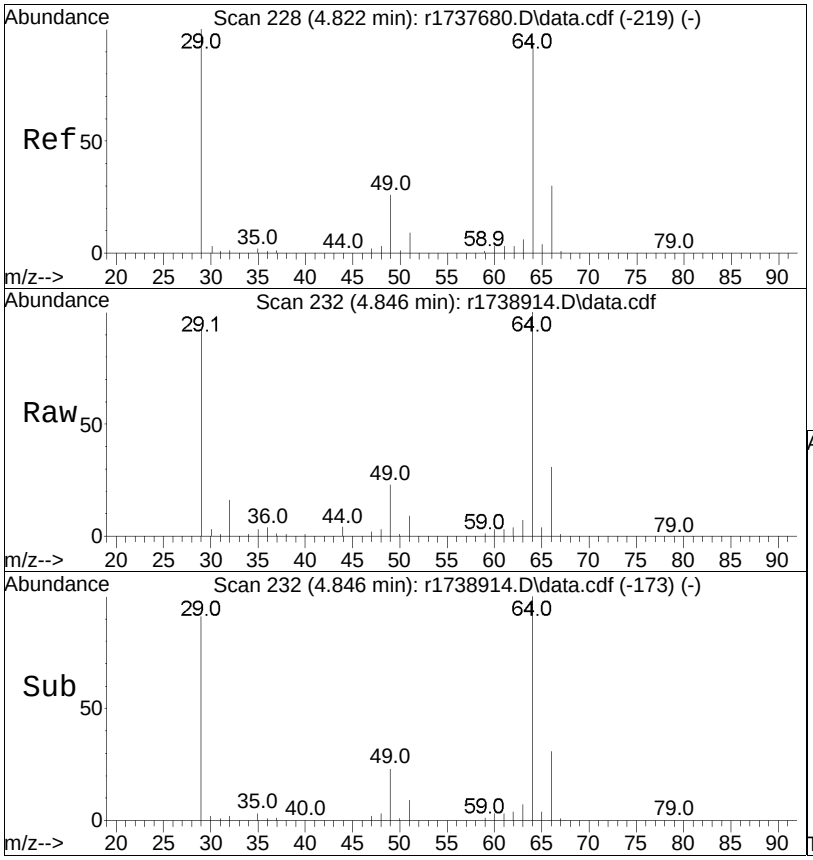


#13
bromomethane
Concen: 10.47 ppbV
RT: 4.666 min Scan# 202
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 94 Resp: 156920

Ion	Ratio	Lower	Upper
94	100		
96	93.2	73.2	109.8

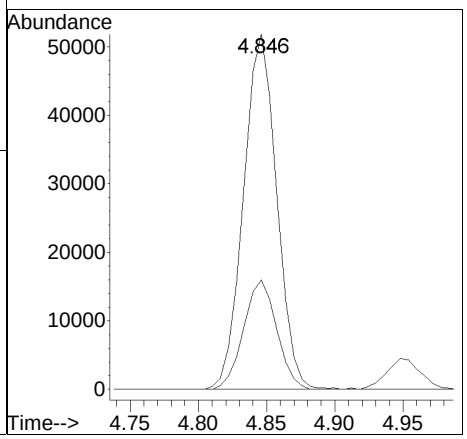


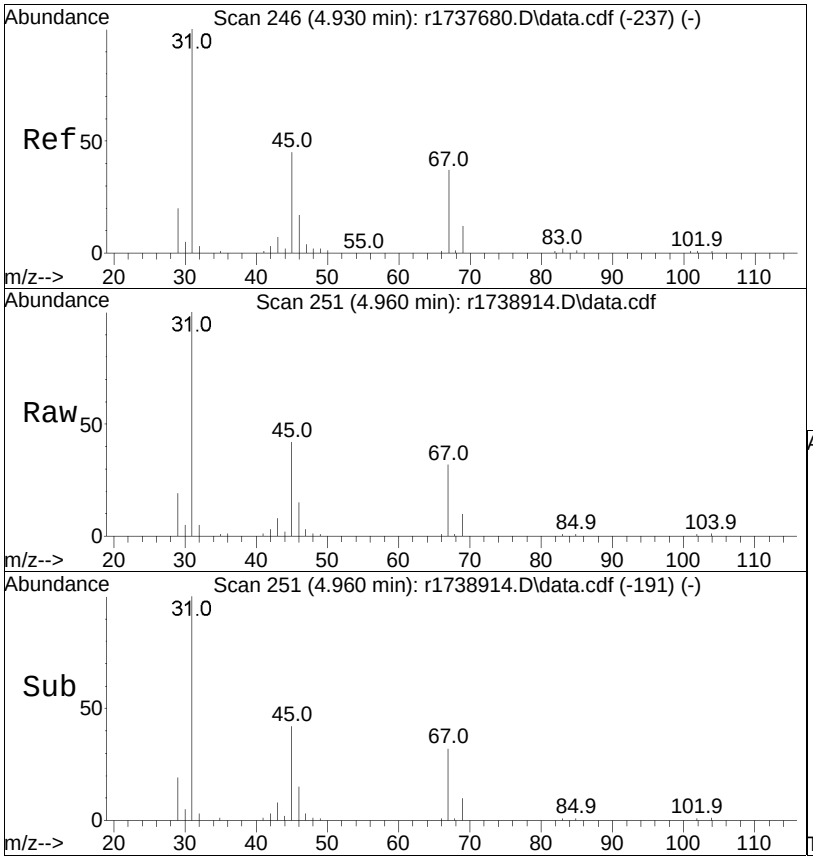


#14
chloroethane
Concen: 10.40 ppbV
RT: 4.846 min Scan# 232
Delta R.T. 0.024 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 64 Resp: 87743

Ion	Ratio	Lower	Upper
64	100		
66	30.8	25.5	38.3

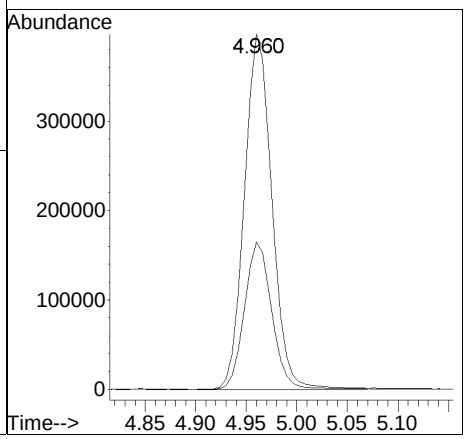


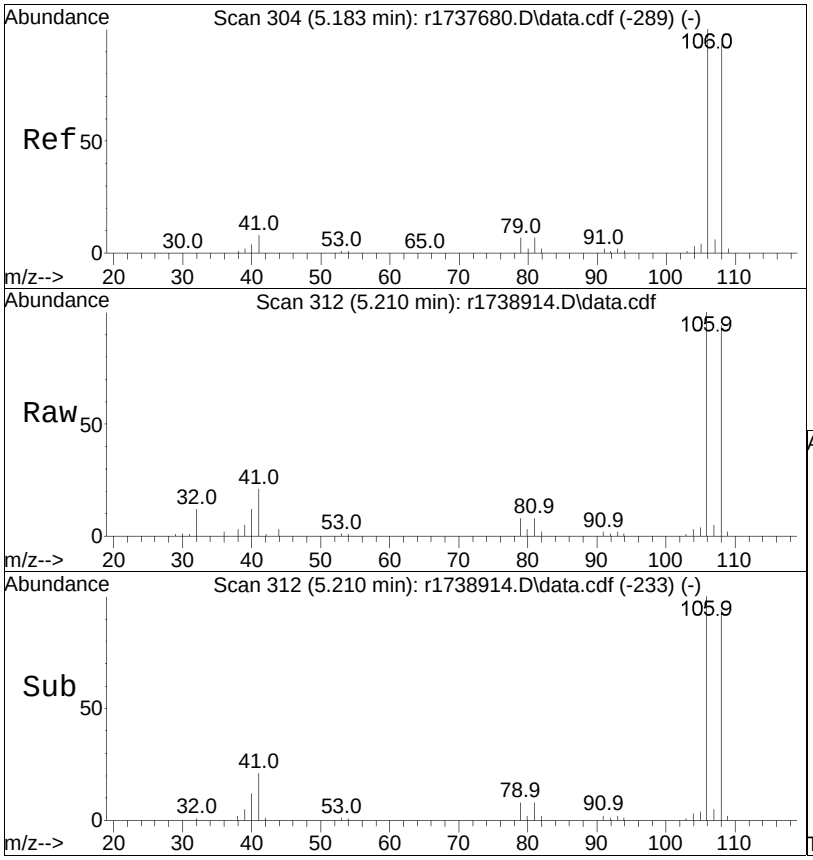


#15
ethanol
Concen: 49.21 ppbV
RT: 4.960 min Scan# 251
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 31 Resp: 735638

Ion	Ratio	Lower	Upper
31	100		
45	41.6	36.3	54.5

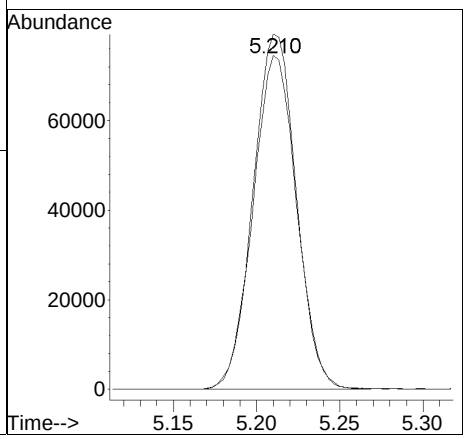


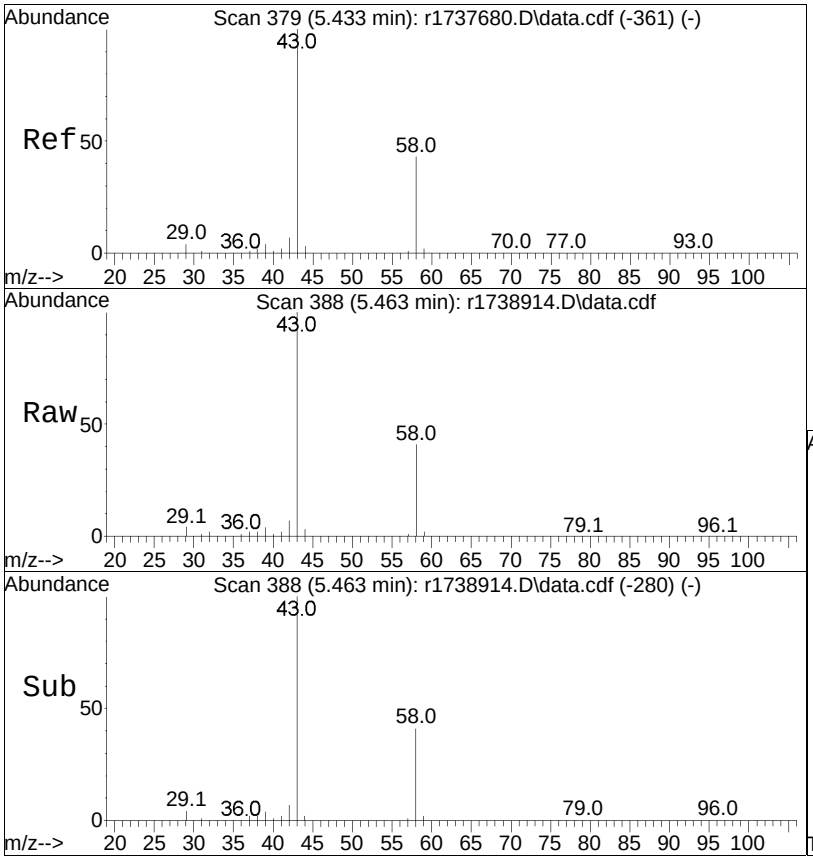


#17
vinyl bromide
Concen: 10.02 ppbV
RT: 5.210 min Scan# 312
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:106 Resp: 144051

Ion	Ratio	Lower	Upper
106	100		
108	94.0	76.2	114.2

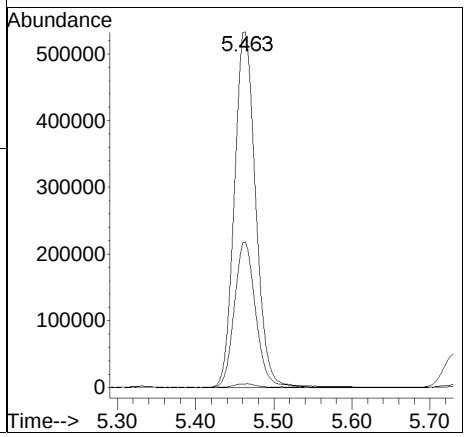


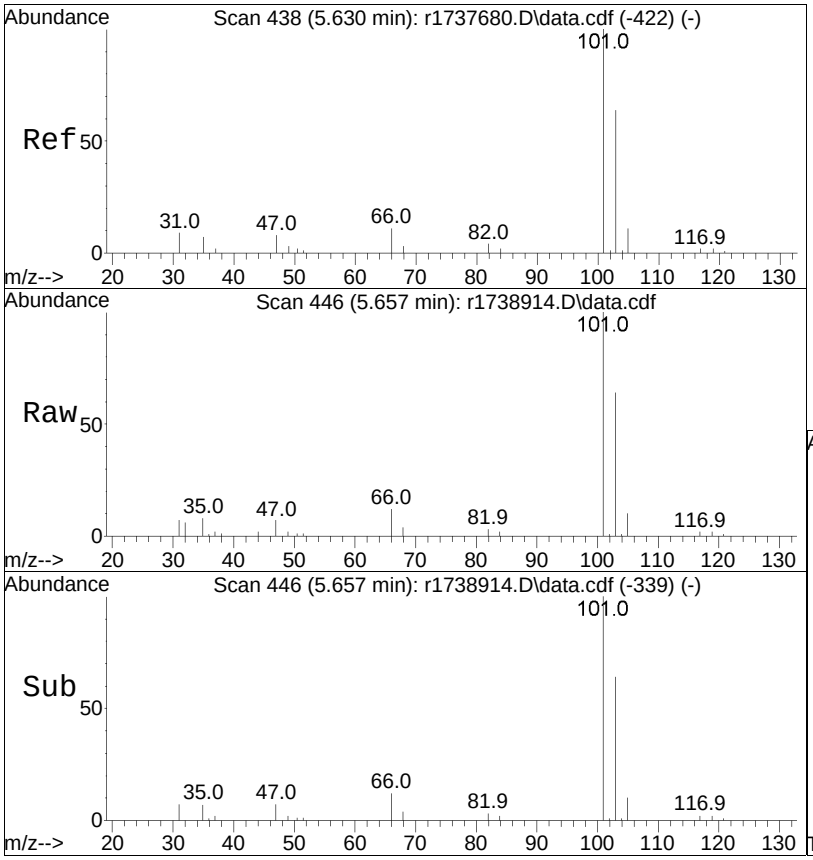


#19
acetone
Concen: 47.52 ppbV
RT: 5.463 min Scan# 388
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 1010573

Ion	Ratio	Lower	Upper
43	100		
58	41.0	34.0	51.0
57	1.0	0.9	1.3

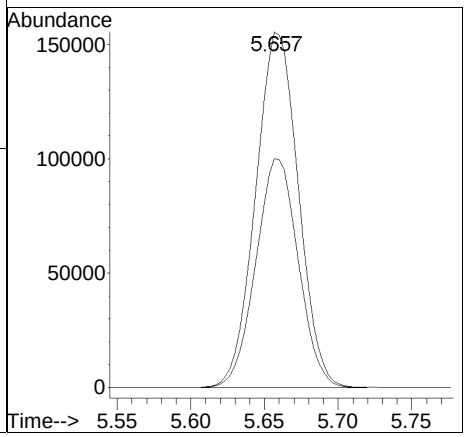


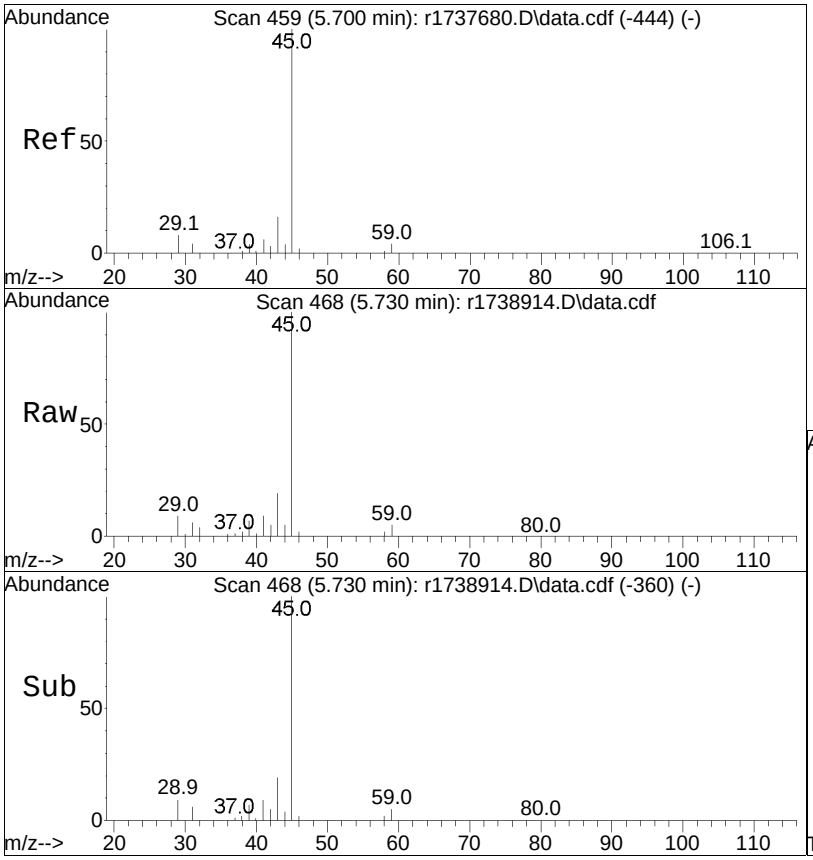


#21
trichlorofluoromethane
Concen: 11.96 ppbV
RT: 5.657 min Scan# 446
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:101 Resp: 313393

Ion	Ratio	Lower	Upper
101	100		
103	64.4	51.2	76.8

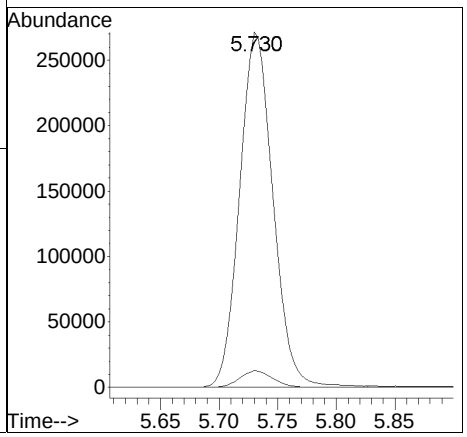


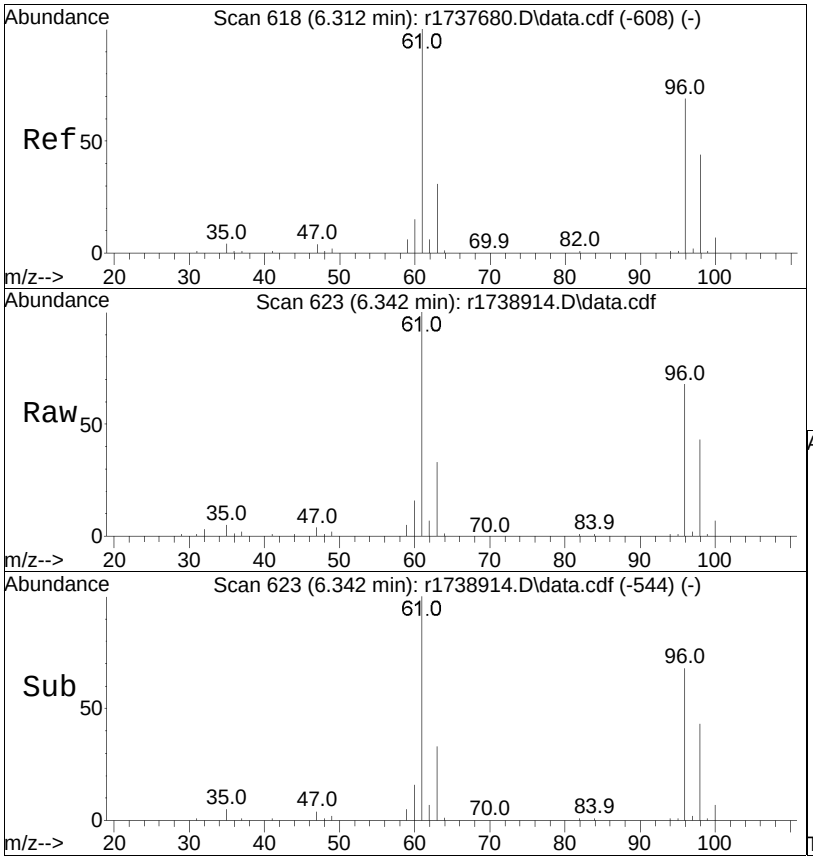


#22
isopropyl alcohol
Concen: 19.43 ppbV
RT: 5.730 min Scan# 468
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 45 Resp: 536773

Ion	Ratio	Lower	Upper
45	100		
59	4.8	3.4	5.2

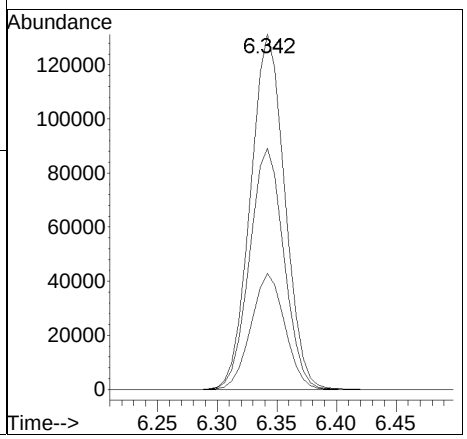


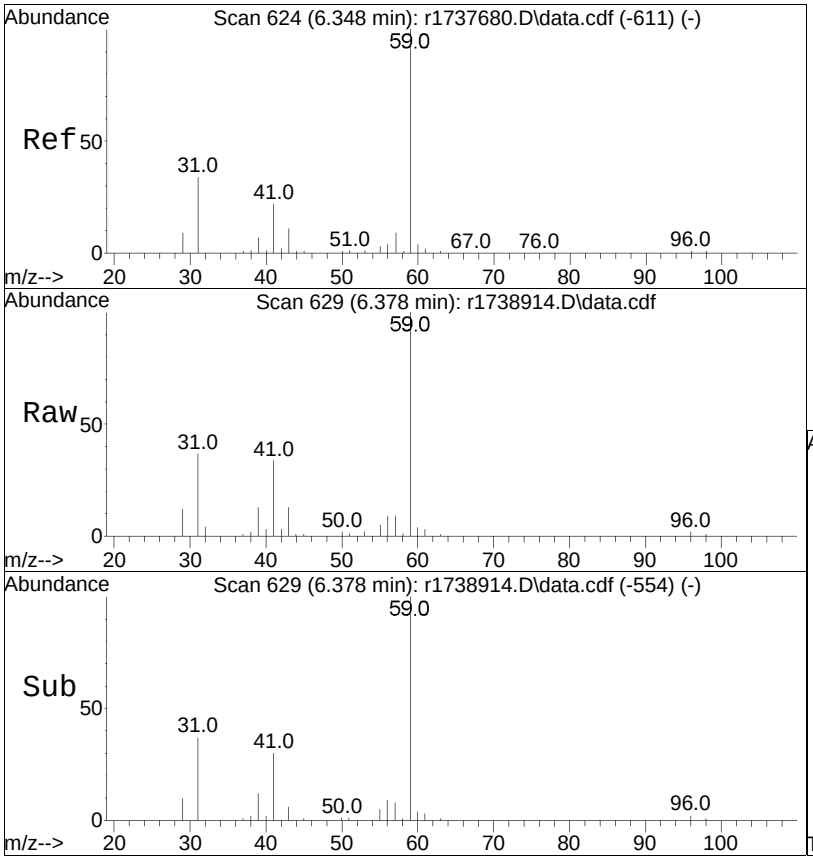


#26
1,1-dichloroethene
Concen: 11.14 ppbV
RT: 6.342 min Scan# 623
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 61 Resp: 263082

Ion	Ratio	Lower	Upper
61	100		
96	67.9	55.3	82.9
63	32.7	24.9	37.3

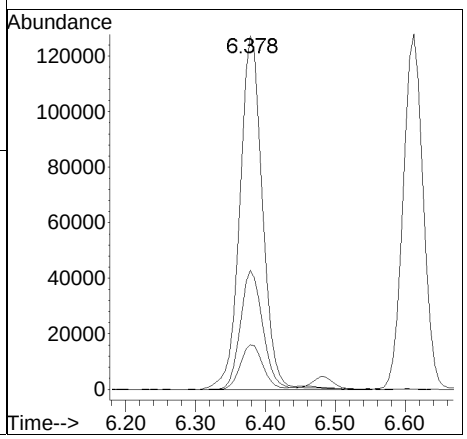


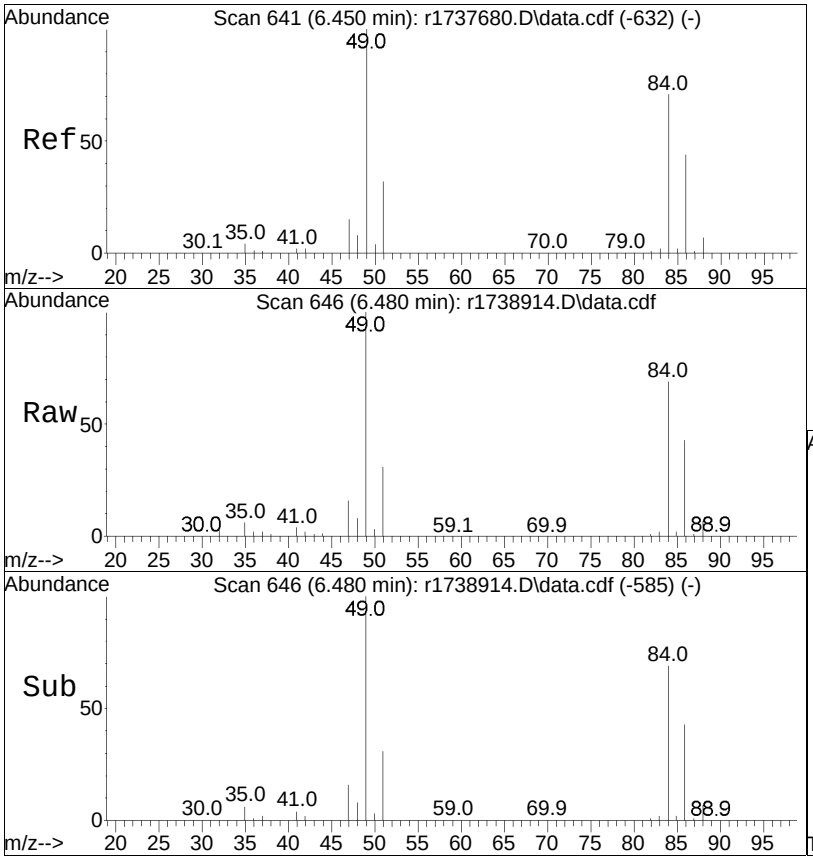


#27
tertiary butyl alcohol
Concen: 8.90 ppbV
RT: 6.378 min Scan# 629
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 59 Resp: 286236

Ion	Ratio	Lower	Upper
59	100		
41	33.7	17.5	26.3#
43	12.6	8.7	13.1

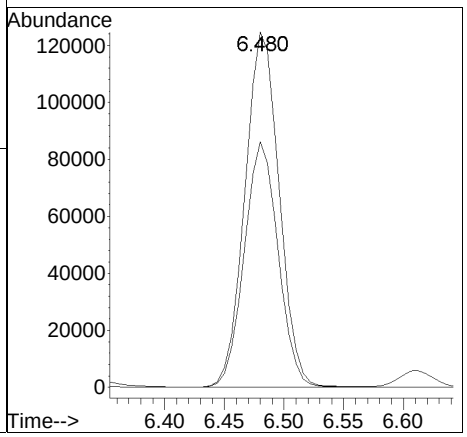


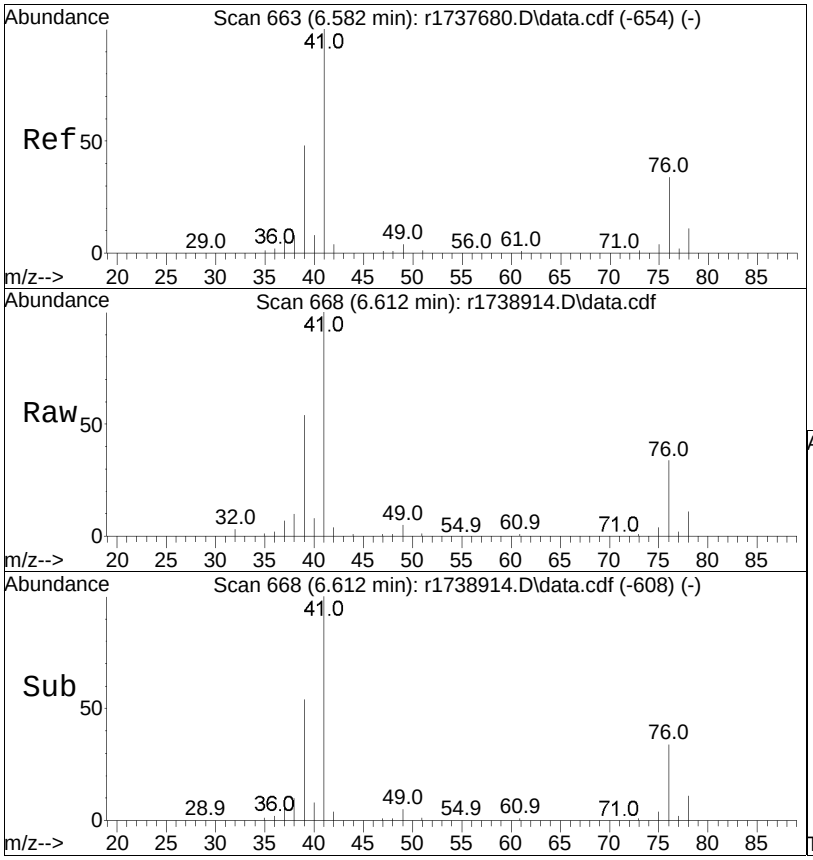


#28
methylene chloride
Concen: 10.67 ppbV
RT: 6.480 min Scan# 646
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 49 Resp: 249784

Ion	Ratio	Lower	Upper
49	100		
84	69.1	56.7	85.1

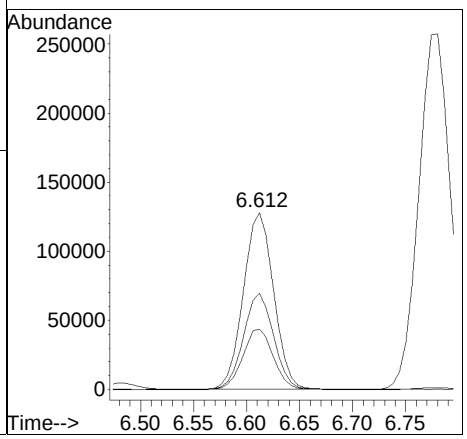


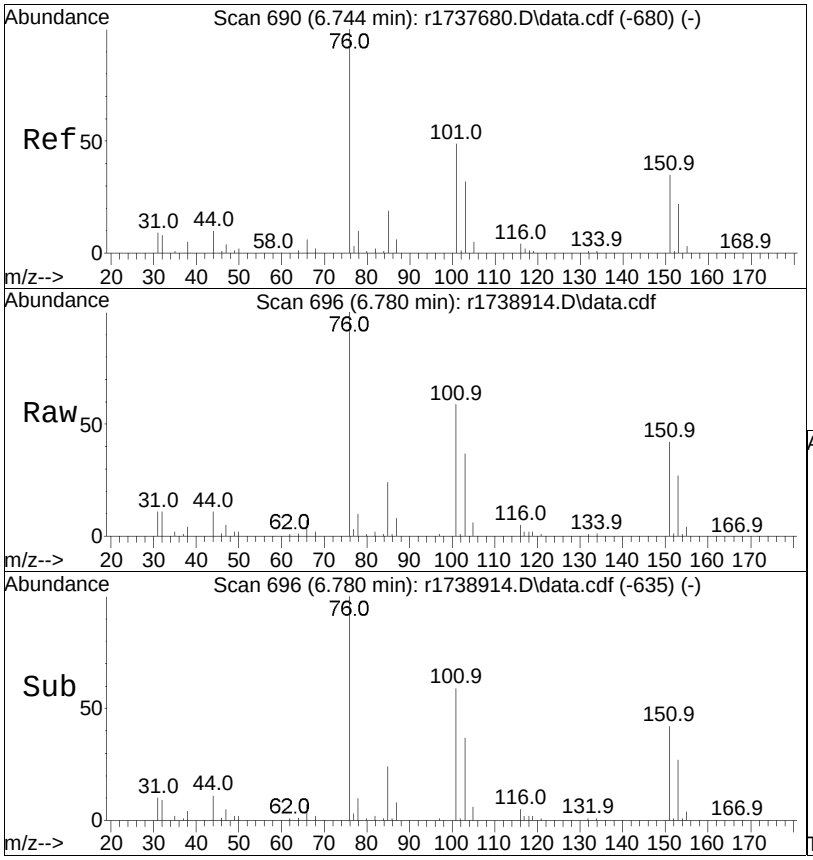


#29
3-chloropropene
Concen: 9.72 ppbV
RT: 6.612 min Scan# 668
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 41 Resp: 254014

Ion	Ratio	Lower	Upper
41	100		
39	54.3	38.5	57.7
76	34.2	26.8	40.2

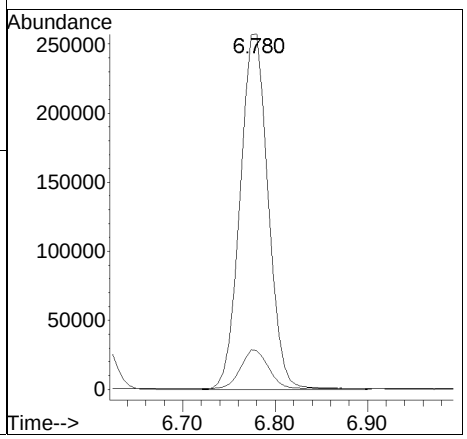


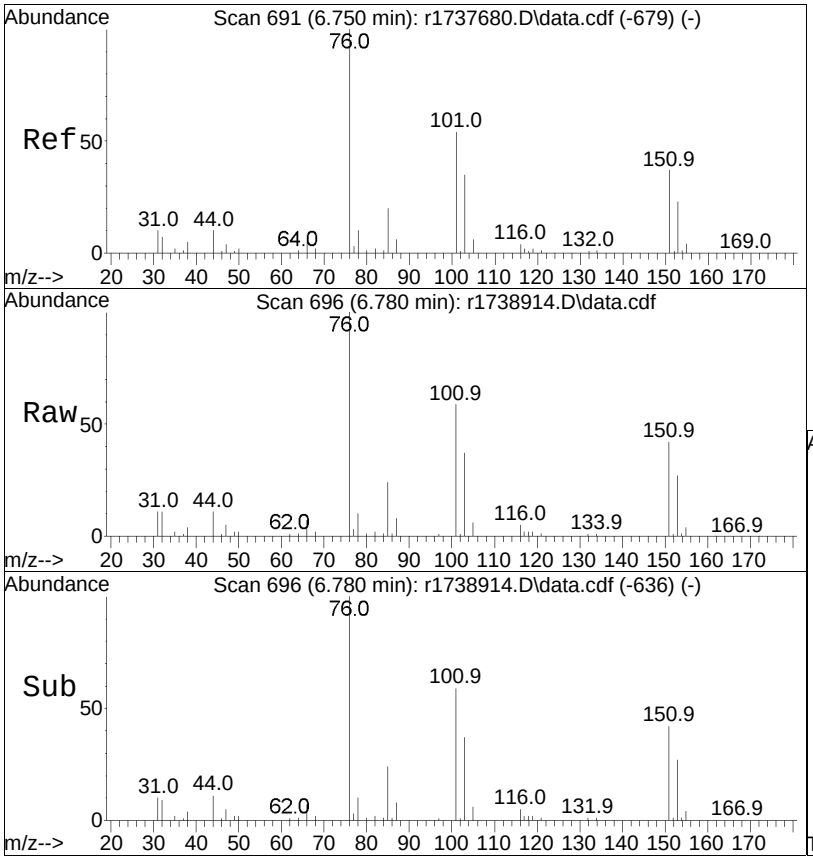


#30
carbon disulfide
Concen: 9.34 ppbV
RT: 6.780 min Scan# 696
Delta R.T. 0.036 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 76 Resp: 544256

Ion	Ratio	Lower	Upper
76	100		
44	10.9	8.5	12.7

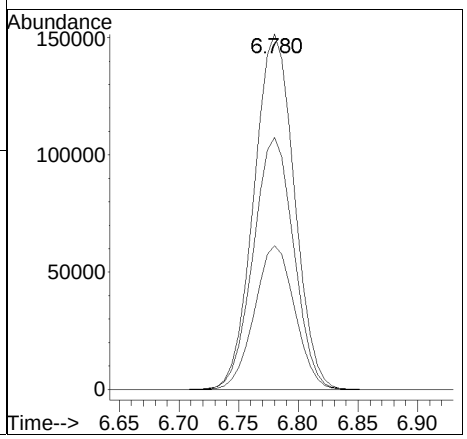


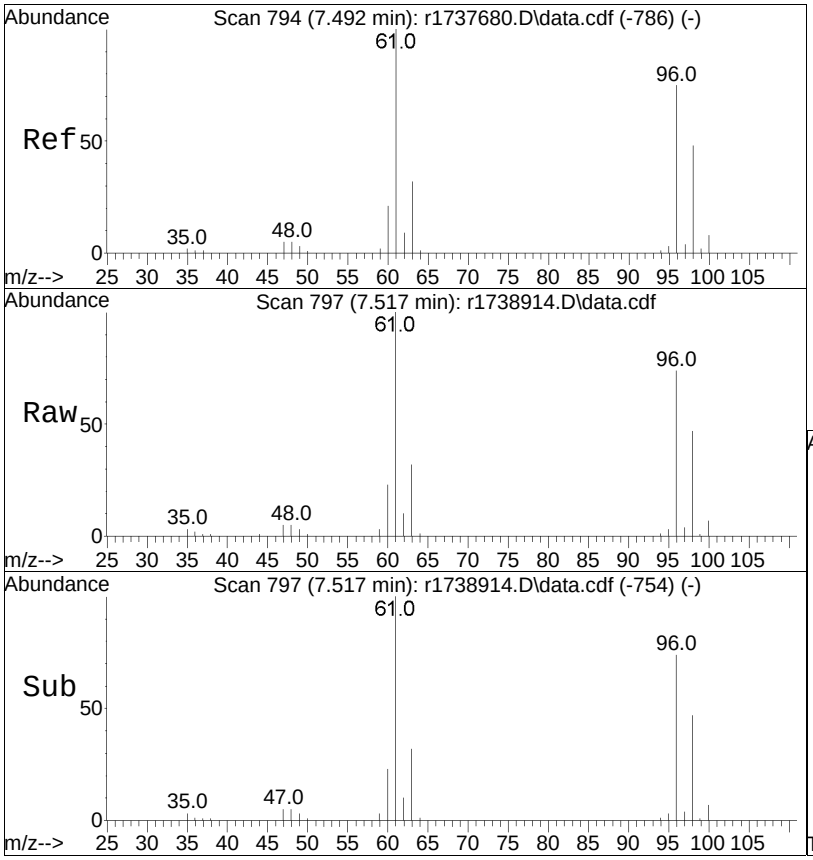


#31
Freon 113
Concen: 10.53 ppbV
RT: 6.780 min Scan# 696
Delta R.T. 0.030 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:101 Resp: 357103

Ion	Ratio	Lower	Upper
101	100		
85	40.5	30.5	45.7
151	70.9	56.0	84.0

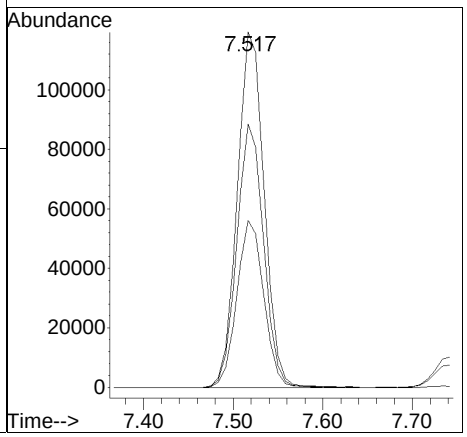


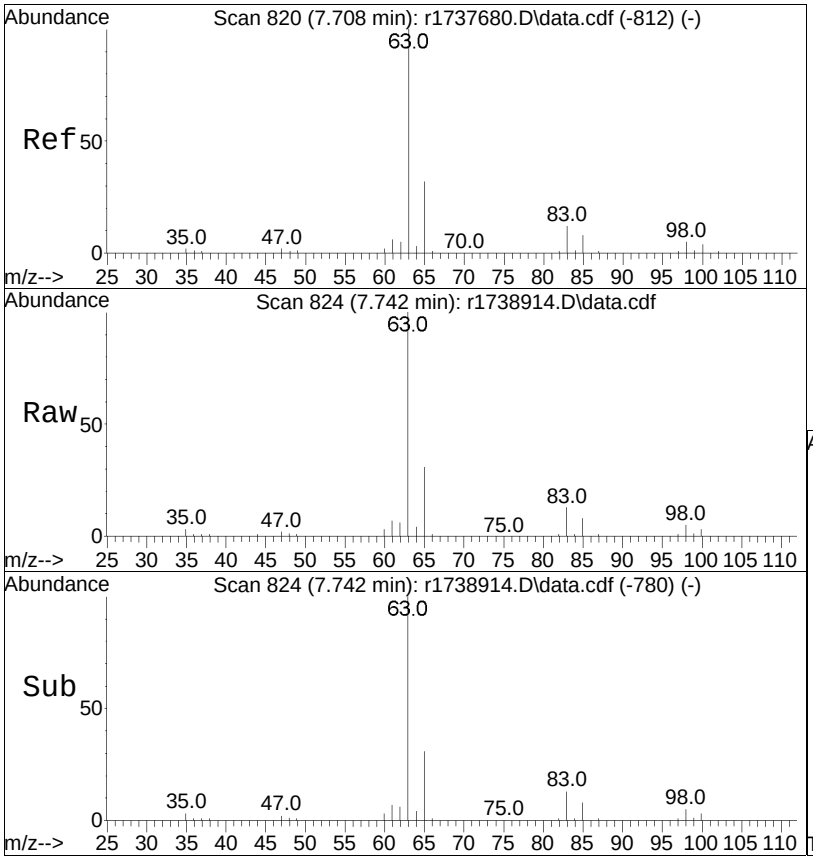


#32
trans-1,2-dichloroethene
Concen: 10.12 ppbV
RT: 7.517 min Scan# 797
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 61 Resp: 248890

Ion	Ratio	Lower	Upper
61	100		
96	74.1	59.9	89.9
98	47.0	38.2	57.4

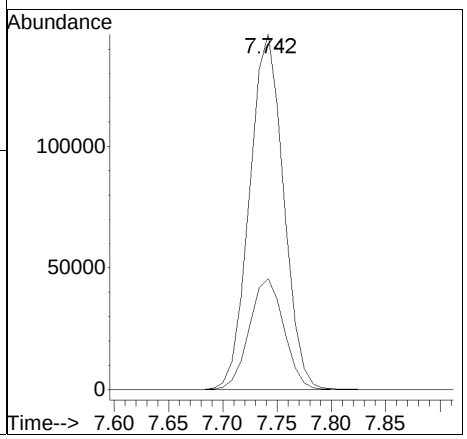


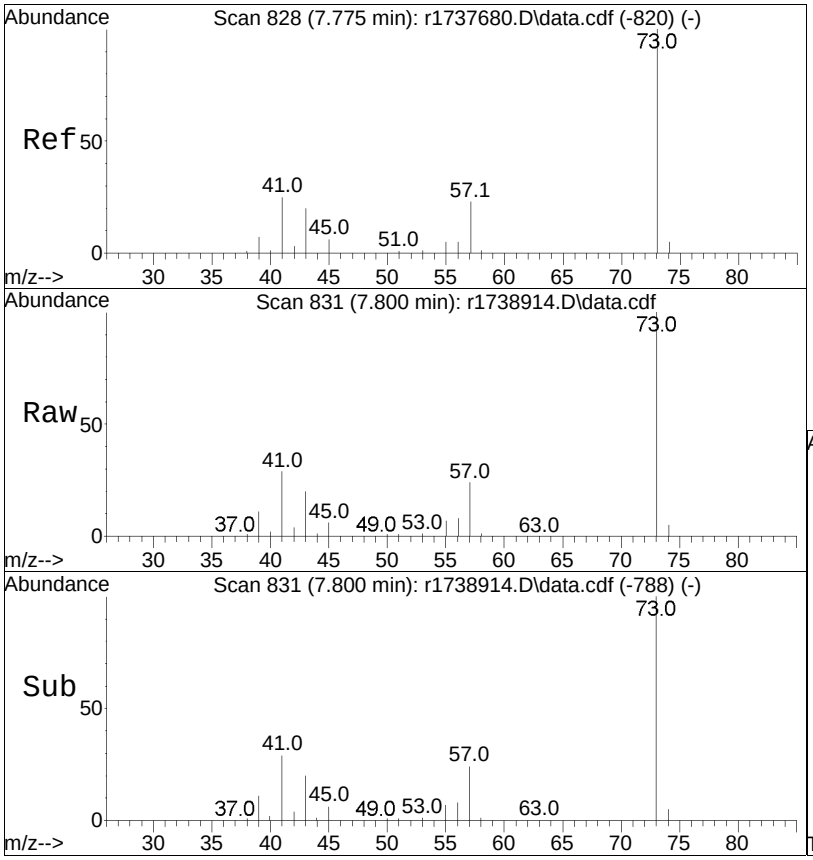


#33
1,1-dichloroethane
Concen: 10.25 ppbV
RT: 7.742 min Scan# 824
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 63 Resp: 318097

Ion	Ratio	Lower	Upper
63	100		
65	31.2	25.6	38.4

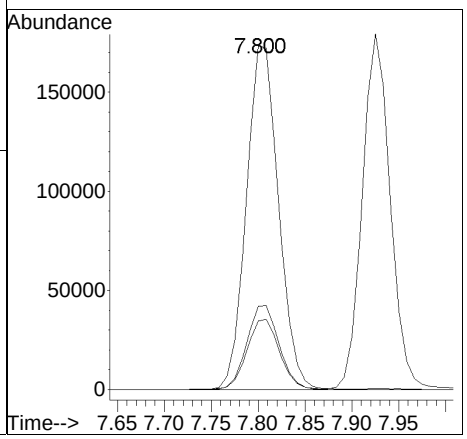


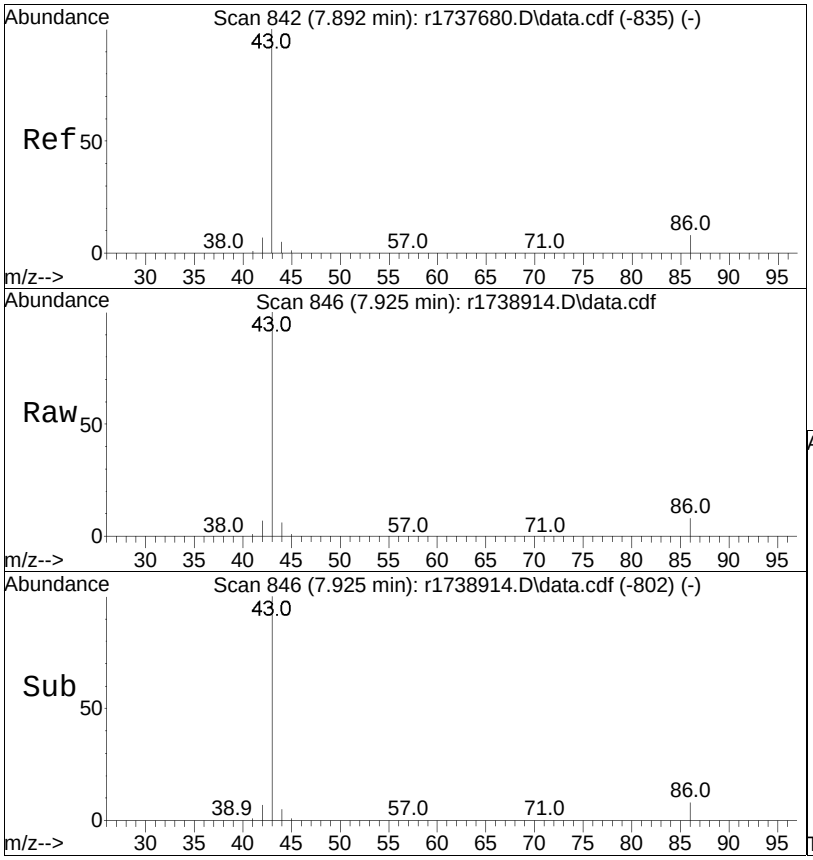


#34
MTBE
Concen: 9.03 ppbV
RT: 7.800 min Scan# 831
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 73 Resp: 414163

Ion	Ratio	Lower	Upper
73	100		
57	24.2	18.2	27.4
43	19.9	16.2	24.2

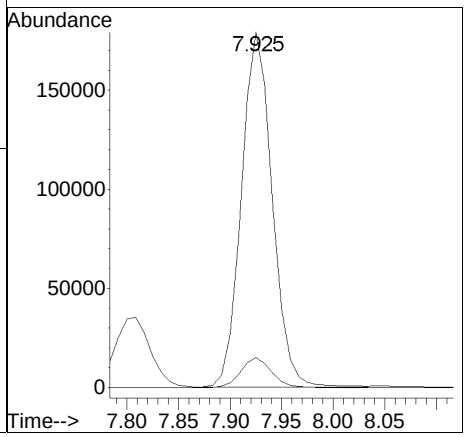


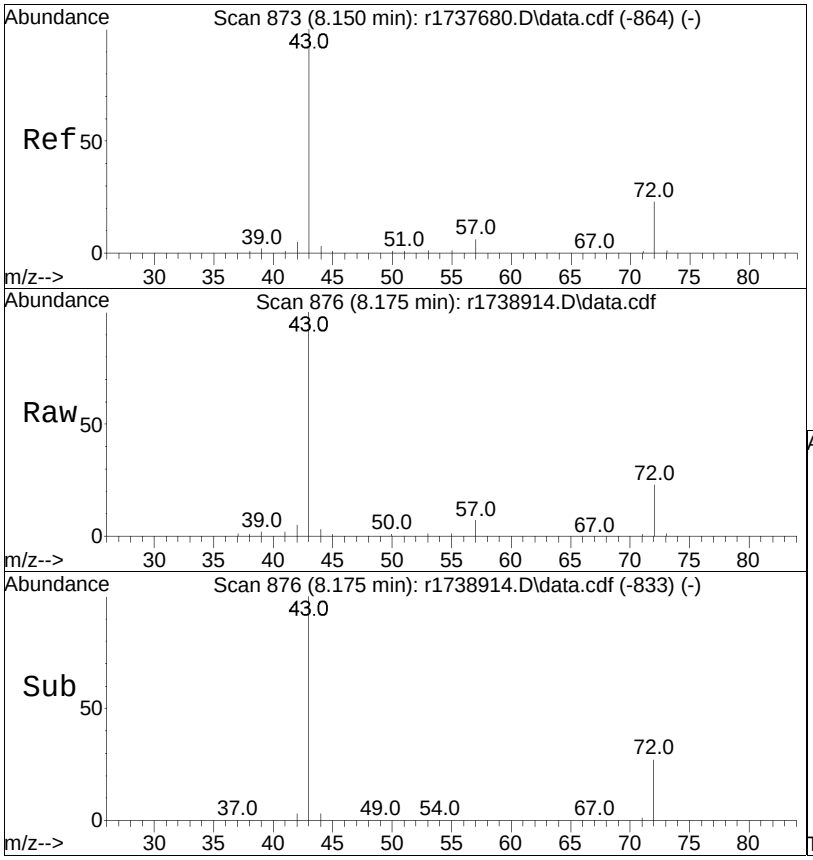


#35
vinyl acetate
Concen: 8.81 ppbV
RT: 7.925 min Scan# 846
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 371995

Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.1	9.1

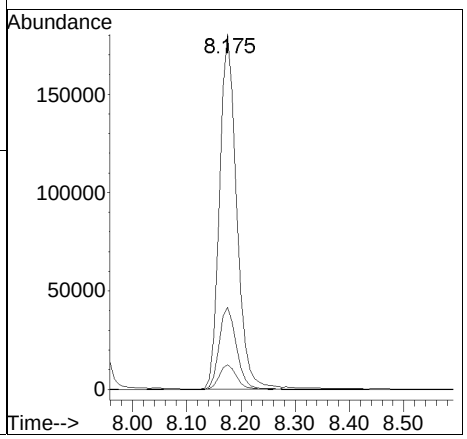


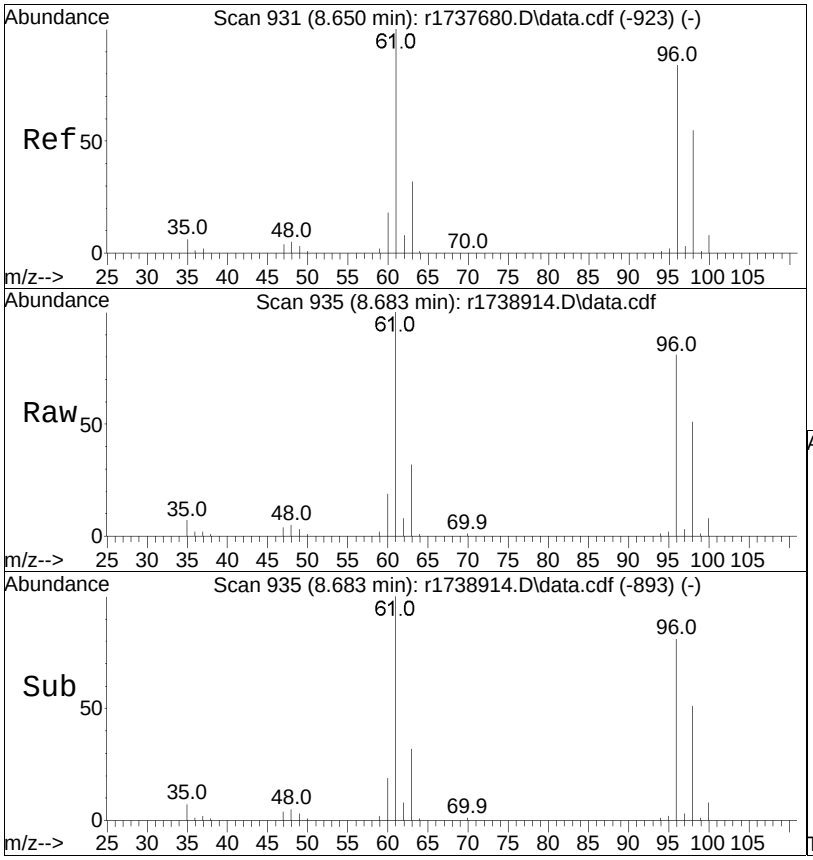


#36
2-butanone
Concen: 9.81 ppbV
RT: 8.175 min Scan# 876
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 418759

Ion	Ratio	Lower	Upper
43	100		
72	23.1	18.3	27.5
57	7.0	5.0	7.6

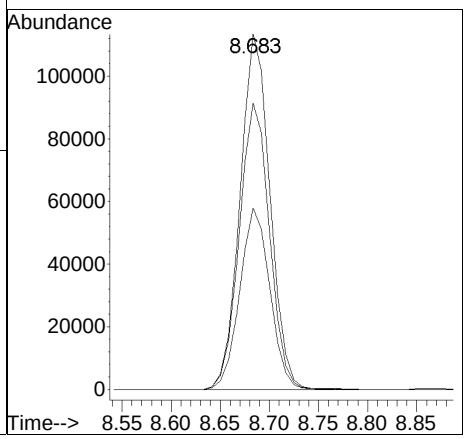


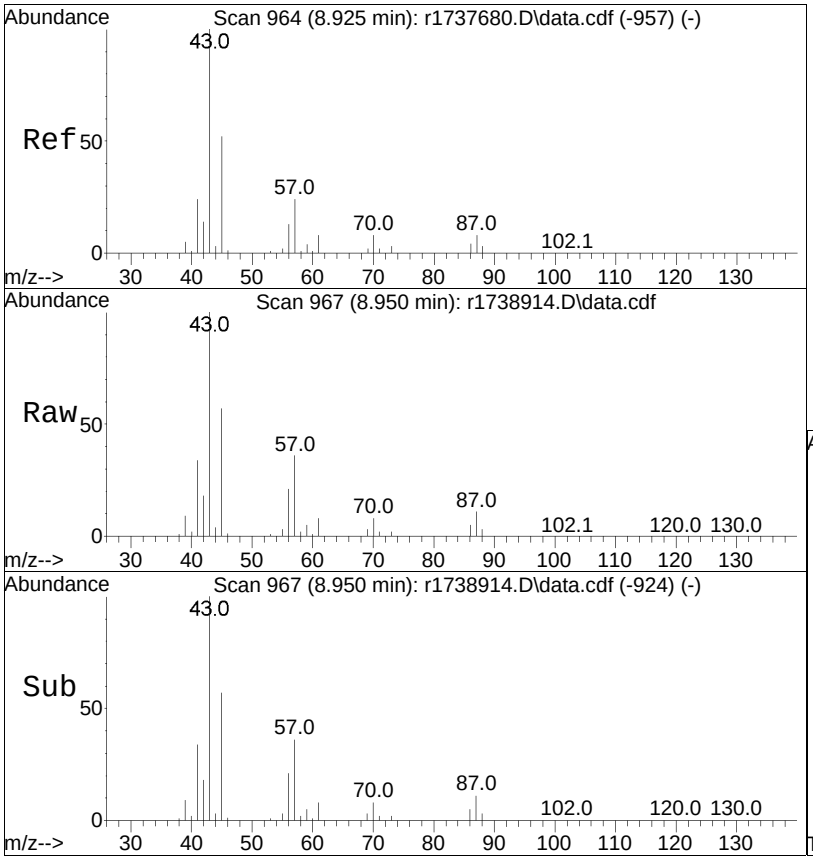


#37
cis-1,2-dichloroethene
Concen: 10.39 ppbV
RT: 8.683 min Scan# 935
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 61 Resp: 240275

Ion	Ratio	Lower	Upper
61	100		
96	80.6	67.4	101.0
98	51.1	43.8	65.6

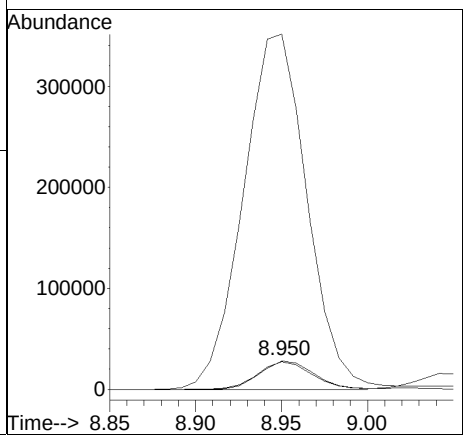


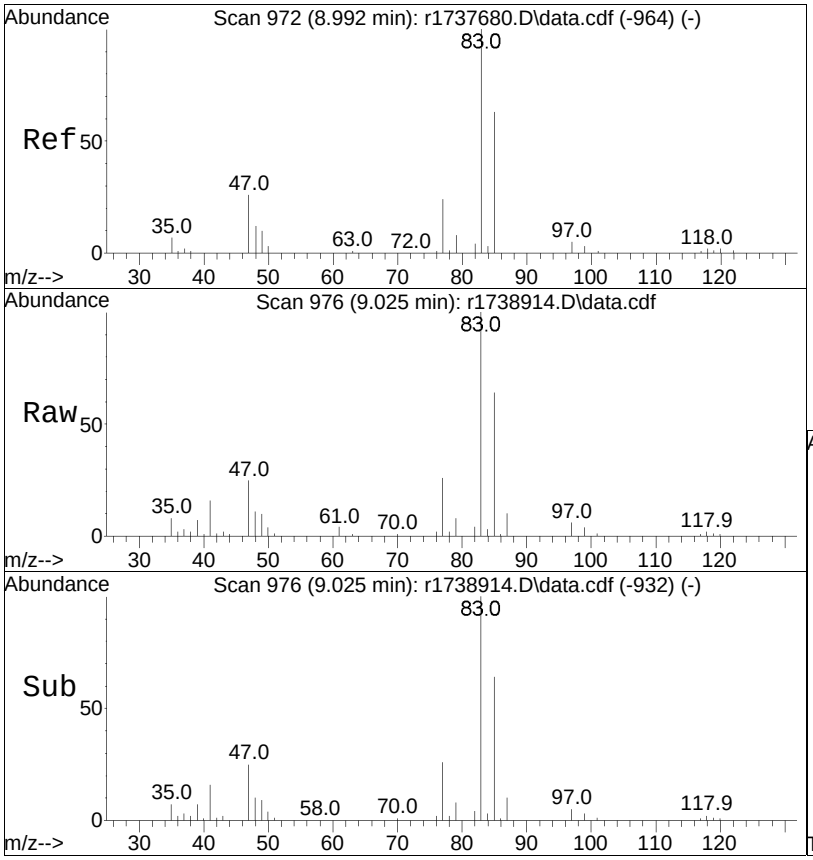


#38
Ethyl Acetate
Concen: 10.45 ppbV
RT: 8.950 min Scan# 967
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 61 Resp: 62087

Ion	Ratio	Lower	Upper
61	100		
70	97.2	78.0	117.0
43	1247.3	960.0	1440.0

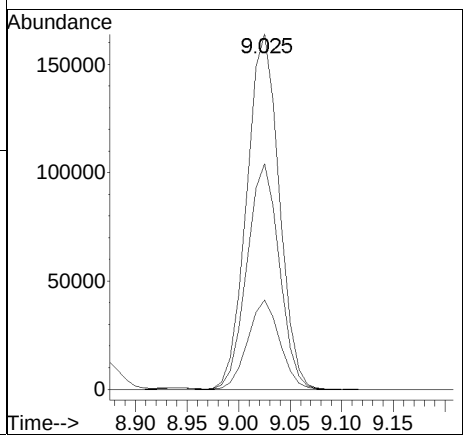


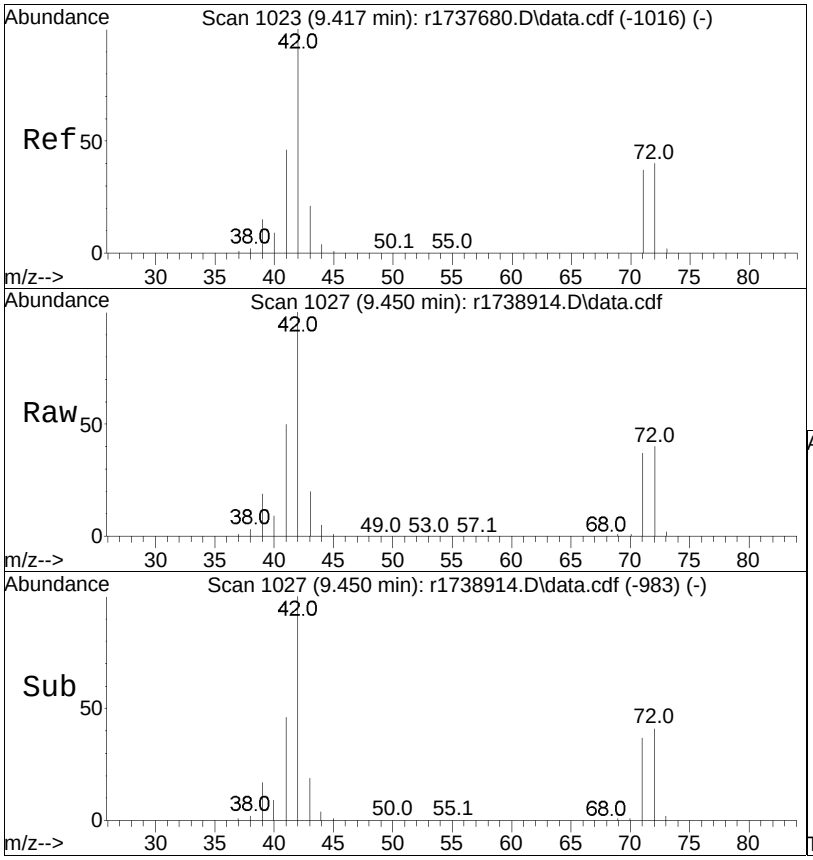


#39
chloroform
Concen: 10.94 ppbV
RT: 9.025 min Scan# 976
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 83 Resp: 359223

Ion	Ratio	Lower	Upper
83	100		
85	63.5	50.8	76.2
47	25.2	21.0	31.6

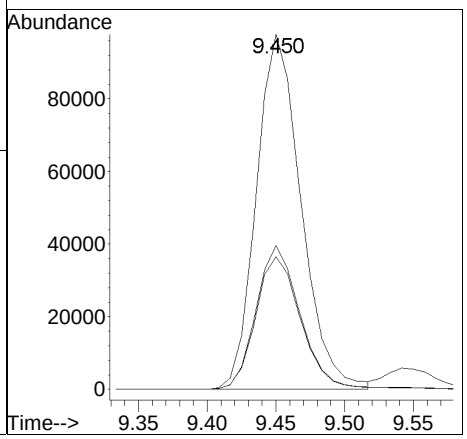


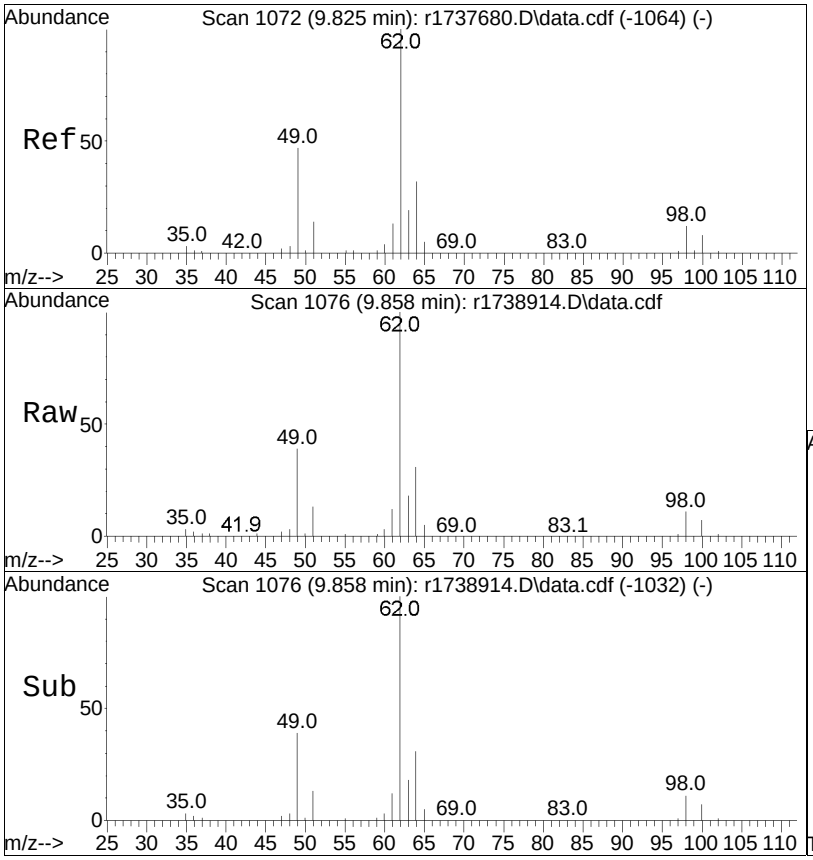


#40
Tetrahydrofuran
Concen: 9.14 ppbV
RT: 9.450 min Scan# 1027
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 42 Resp: 221427

Ion	Ratio	Lower	Upper
42	100		
71	37.4	30.0	45.0
72	40.5	31.9	47.9

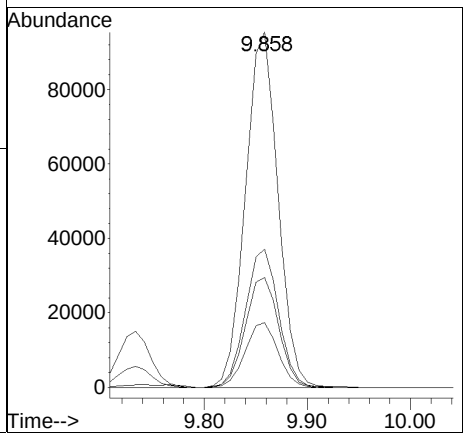


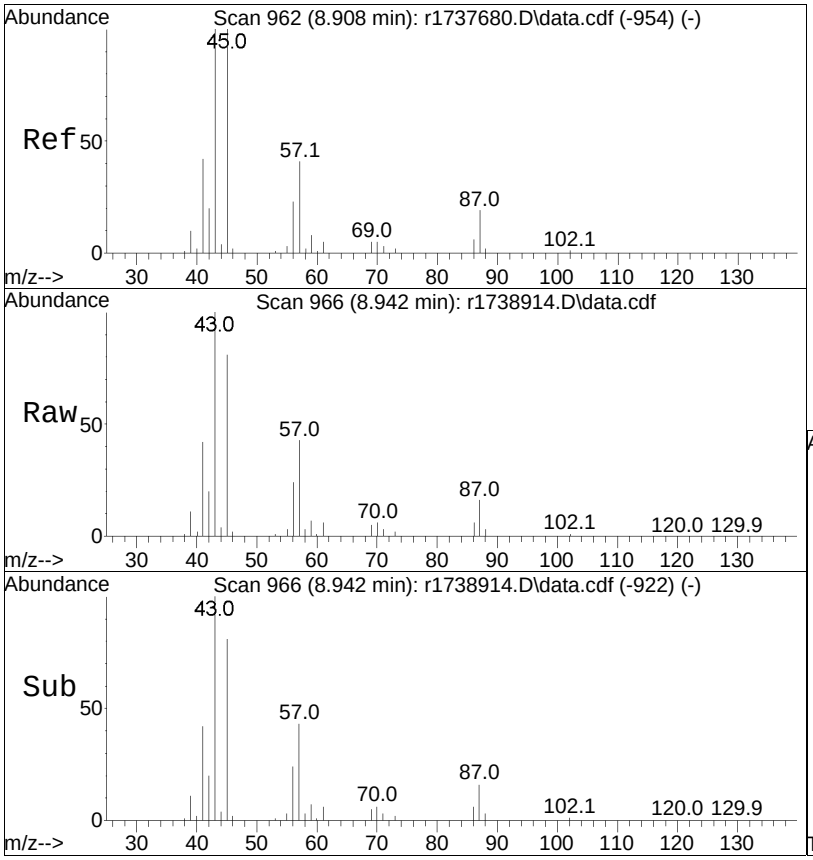


#42
1,2-dichloroethane
Concen: 11.17 ppbV
RT: 9.858 min Scan# 1076
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 62 Resp: 208874

Ion	Ratio	Lower	Upper
62	100		
64	30.9	25.5	38.3
49	39.0	37.8	56.8
63	18.3	15.5	23.3

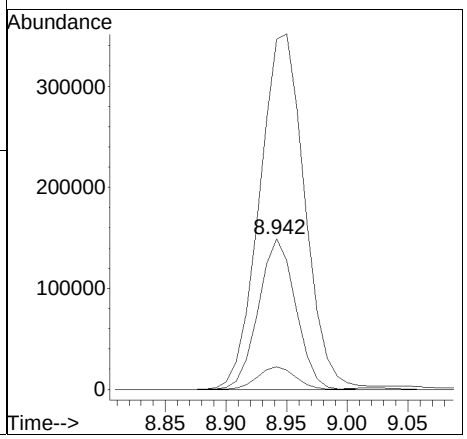


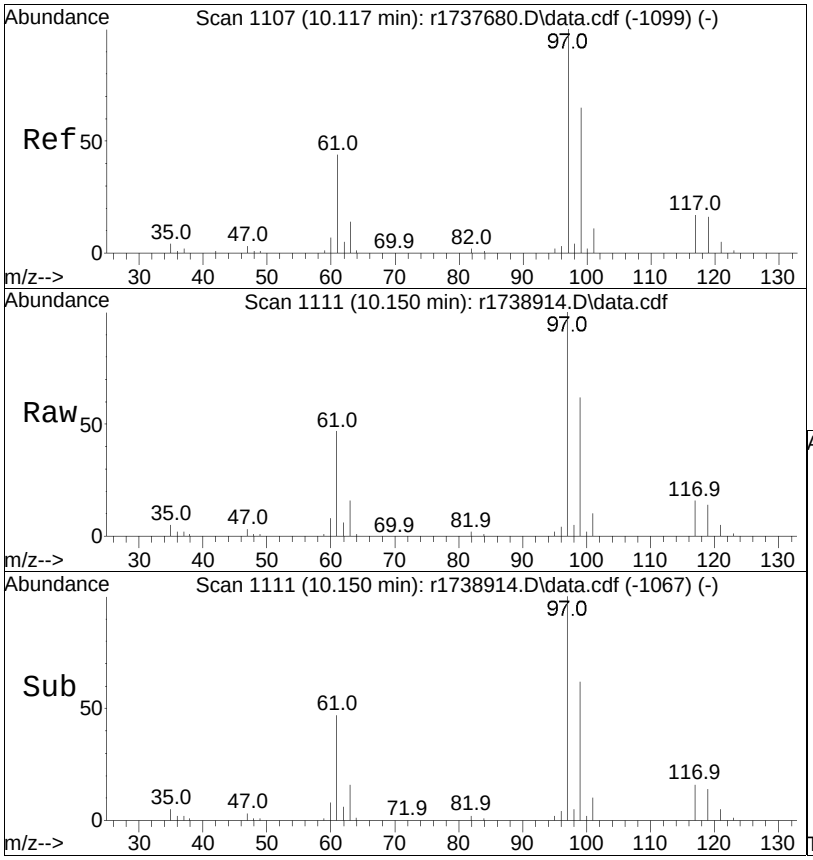


#44
hexane
Concen: 10.14 ppbV
RT: 8.942 min Scan# 966
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 57 Resp: 318071

Ion	Ratio	Lower	Upper
57	100		
43	232.3	197.0	295.6
86	15.1	12.6	19.0

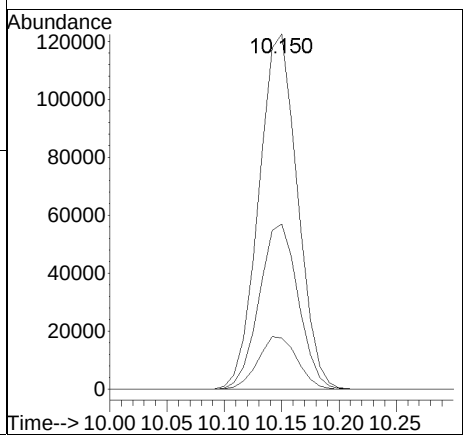


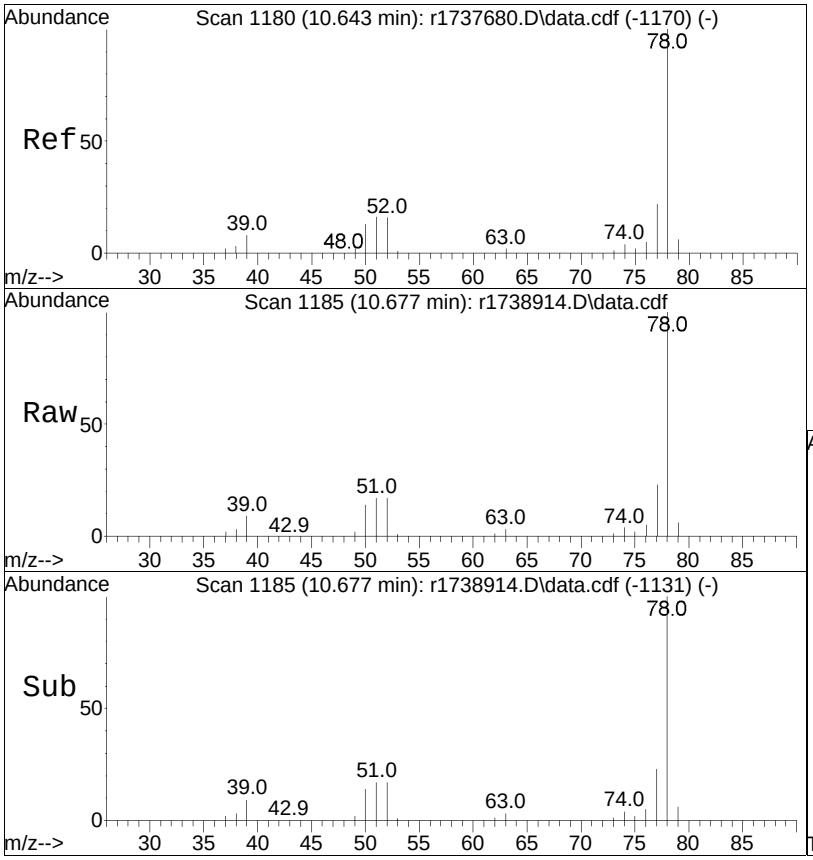


#48
1,1,1-trichloroethane
Concen: 10.55 ppbV
RT: 10.150 min Scan# 1111
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 97 Resp: 288085

Ion	Ratio	Lower	Upper
97	100		
61	46.5	35.4	53.2
119	14.5	12.6	18.8

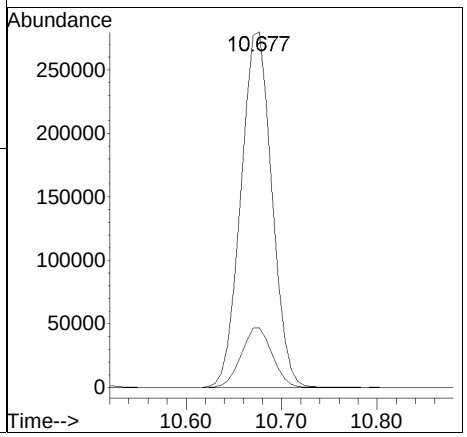


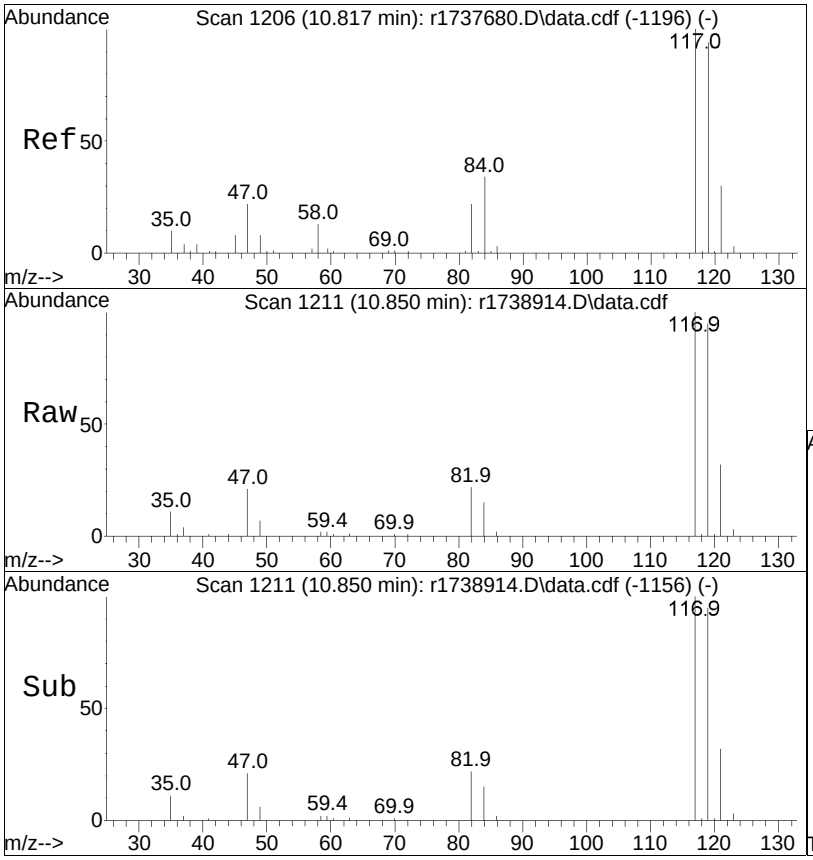


#50
benzene
Concen: 9.00 ppbV
RT: 10.677 min Scan# 1185
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 78 Resp: 631999

Ion	Ratio	Lower	Upper
78	100		
52	16.7	12.7	19.1

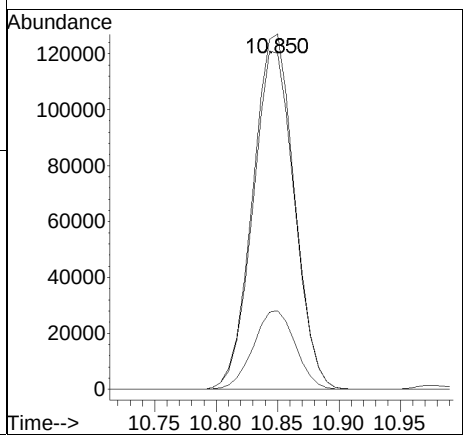


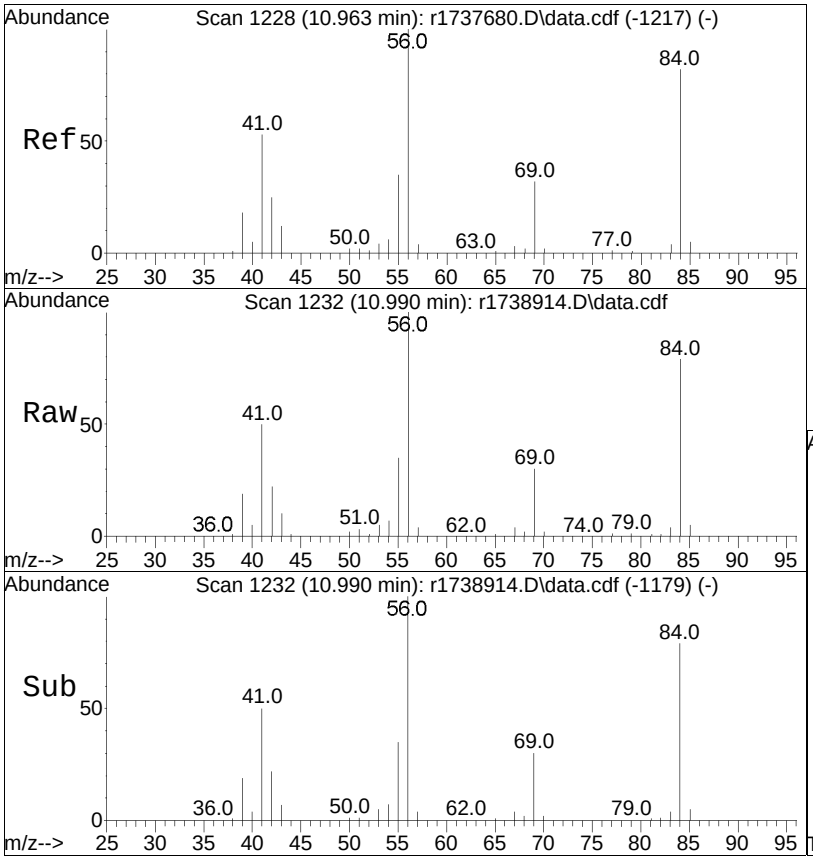


#52
carbon tetrachloride
Concen: 11.67 ppbV
RT: 10.850 min Scan# 1211
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:117 Resp: 299974

Ion	Ratio	Lower	Upper
117	100		
119	94.6	75.2	112.8
82	22.2	18.0	27.0

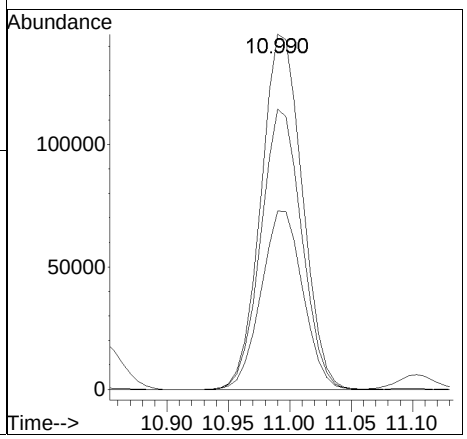


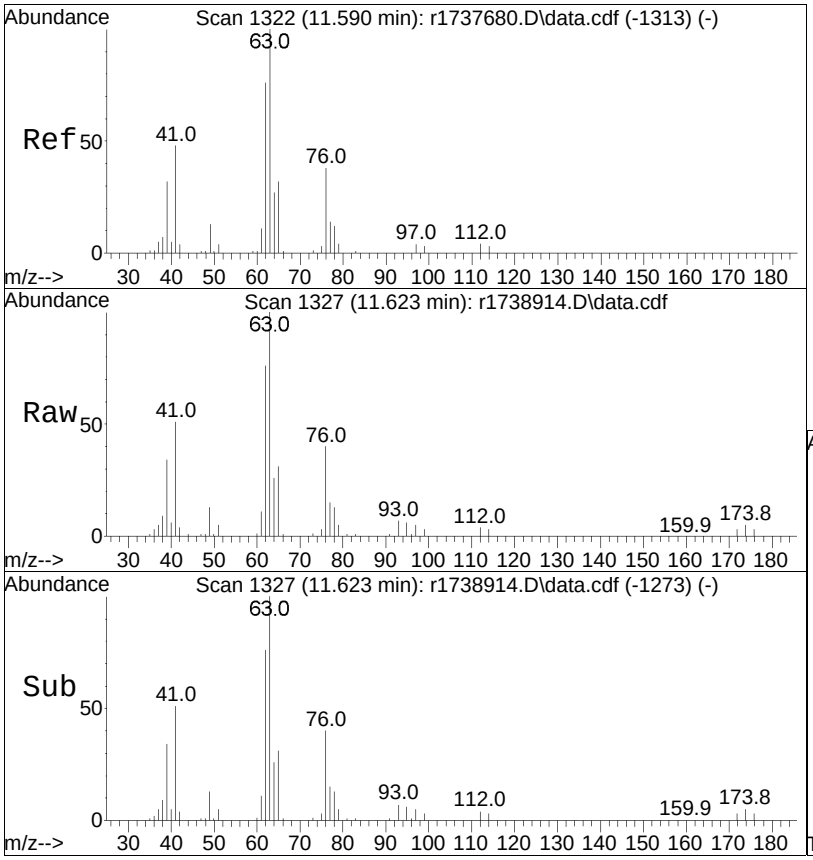


#53
cyclohexane
Concen: 10.11 ppbV
RT: 10.990 min Scan# 1232
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 56 Resp: 339161

Ion	Ratio	Lower	Upper
56	100		
84	78.9	65.7	98.5
41	50.2	42.5	63.7

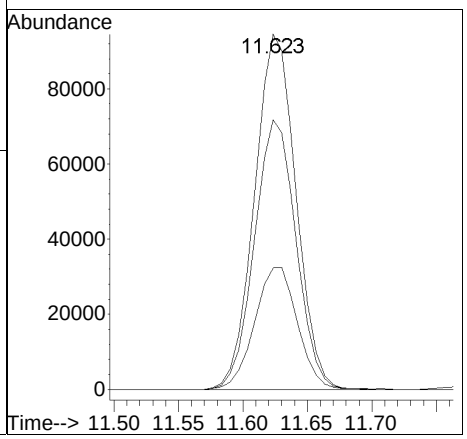


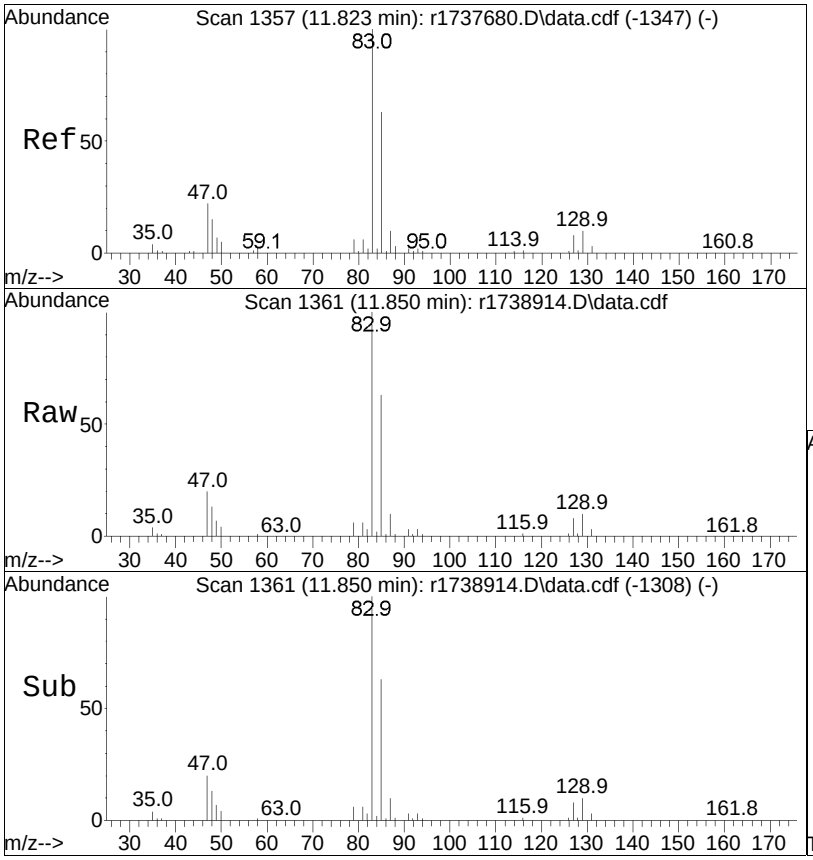


#56
1,2-dichloropropane
Concen: 9.78 ppbV
RT: 11.623 min Scan# 1327
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 63 Resp: 211053

Ion	Ratio	Lower	Upper
63	100		
62	75.9	60.5	90.7
39	34.2	25.8	38.8

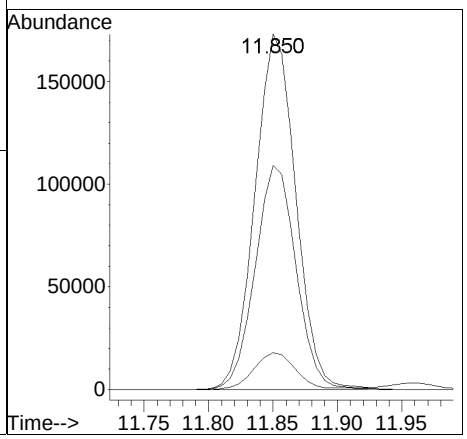


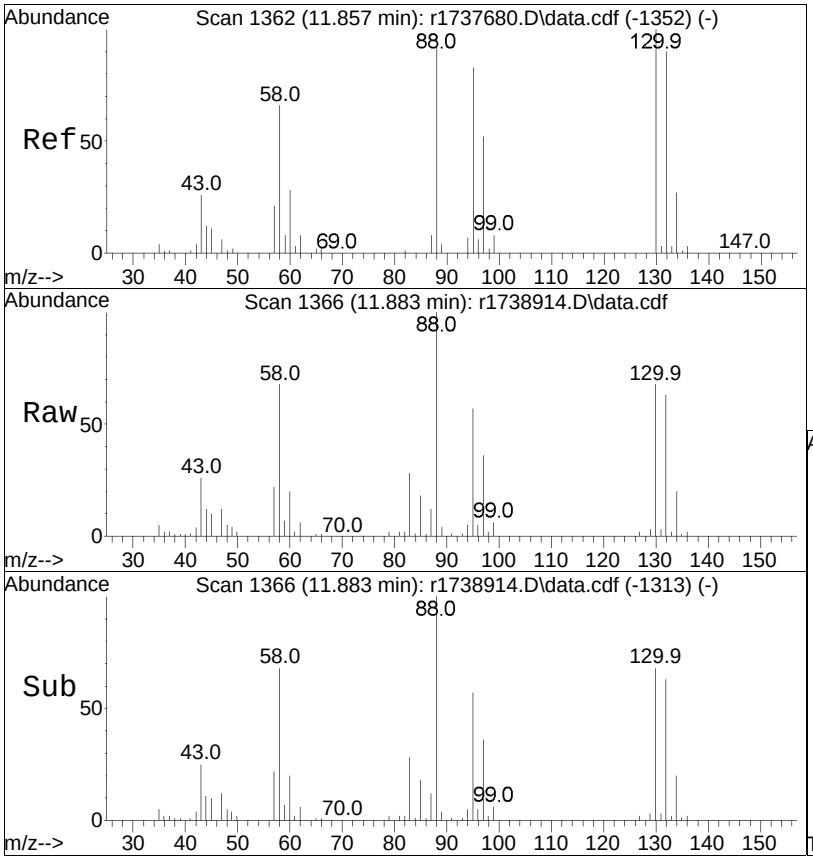


#57
bromodichloromethane
Concen: 11.58 ppbV
RT: 11.850 min Scan# 1361
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 83 Resp: 381488

Ion	Ratio	Lower	Upper
83	100		
85	63.0	50.3	75.5
129	10.4	8.0	12.0

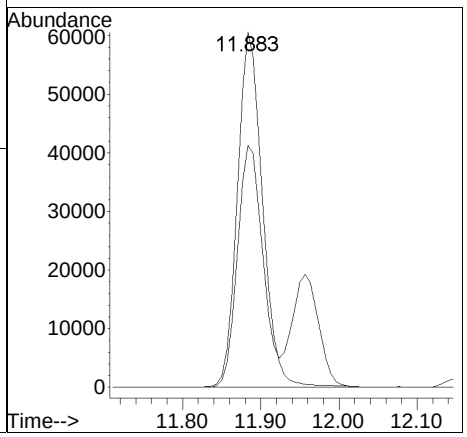


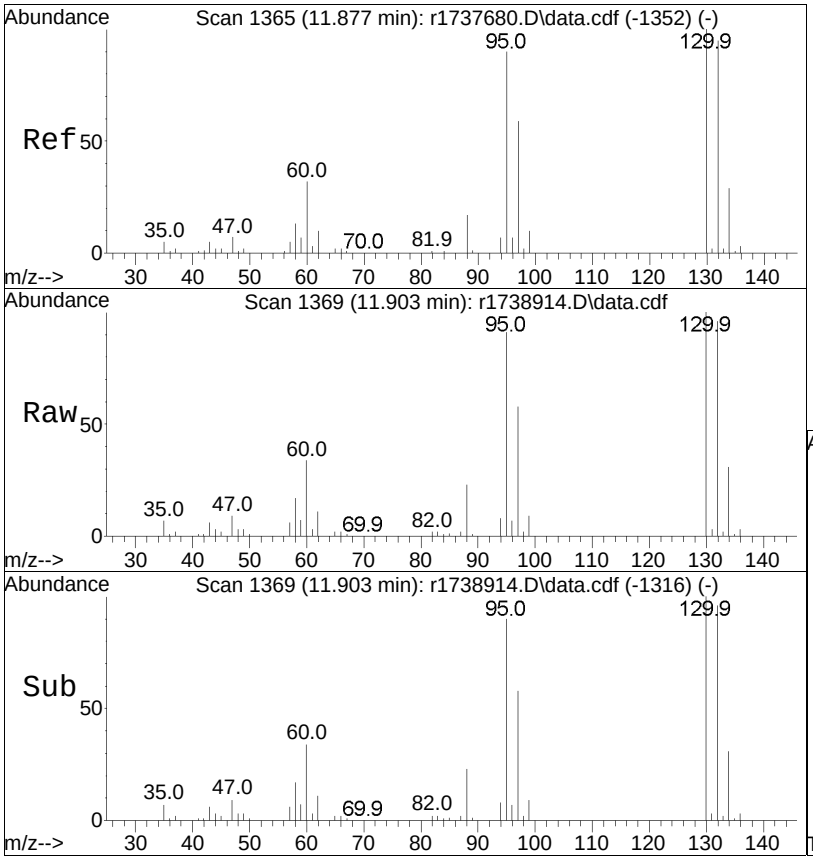


#58
1,4-dioxane
Concen: 10.02 ppbV
RT: 11.883 min Scan# 1366
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 88 Resp: 135433

Ion	Ratio	Lower	Upper
88	100		
58	68.1	55.0	82.6

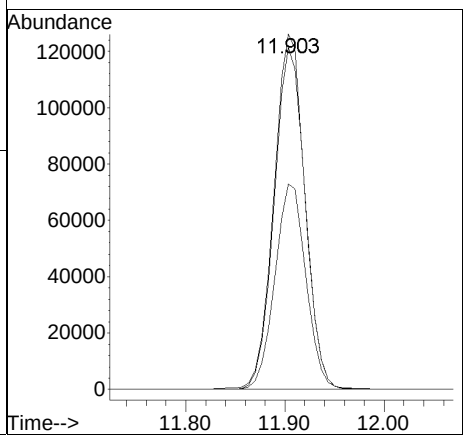


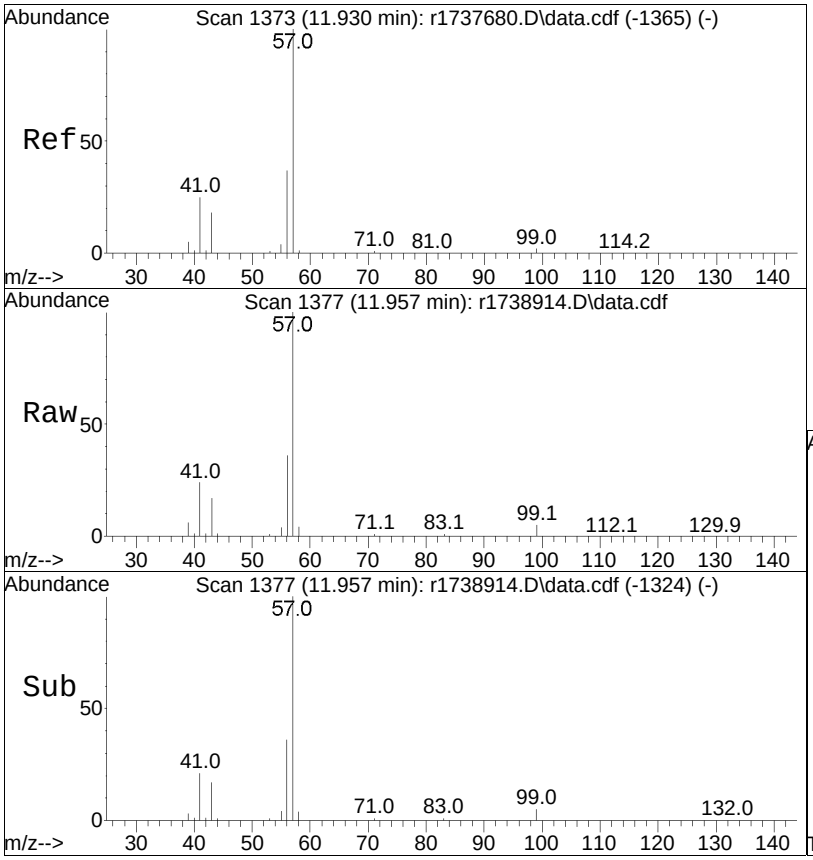


#59
trichloroethene
Concen: 10.26 ppbV
RT: 11.903 min Scan# 1369
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:130 Resp: 274336

Ion	Ratio	Lower	Upper
130	100		
132	96.2	75.8	113.8
97	57.8	47.0	70.4

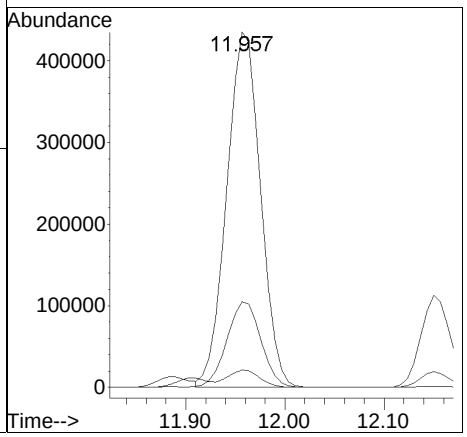


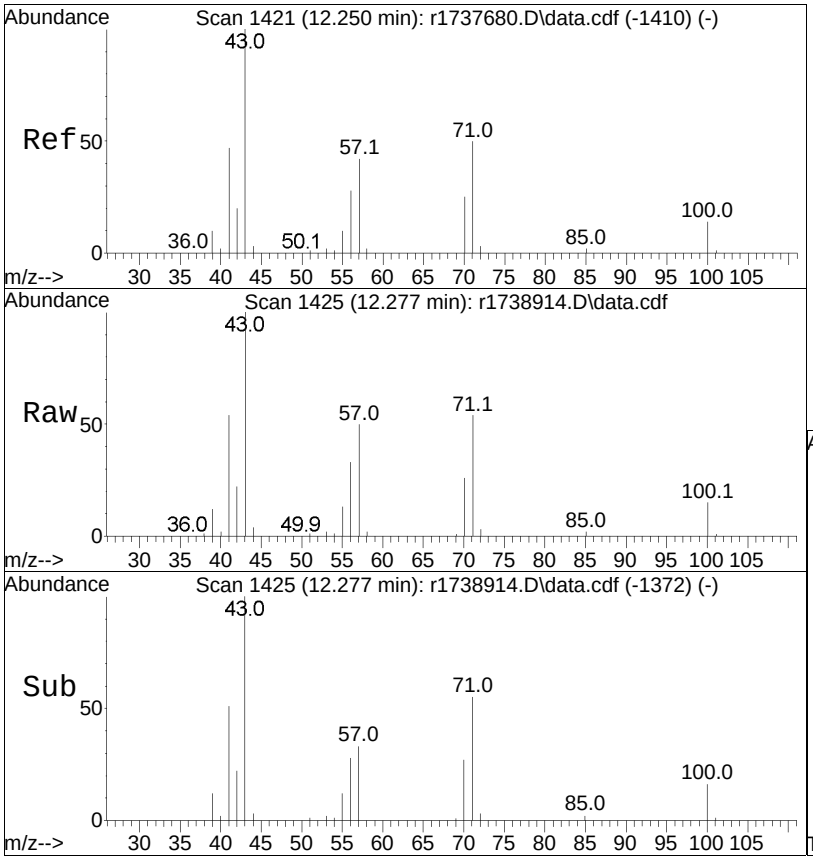


#60
2,2,4-trimethylpentane
Concen: 9.92 ppbV
RT: 11.957 min Scan# 1377
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 57 Resp: 1032760

Ion	Ratio	Lower	Upper
57	100		
99	4.9	4.0	6.0
41	24.1	19.8	29.6

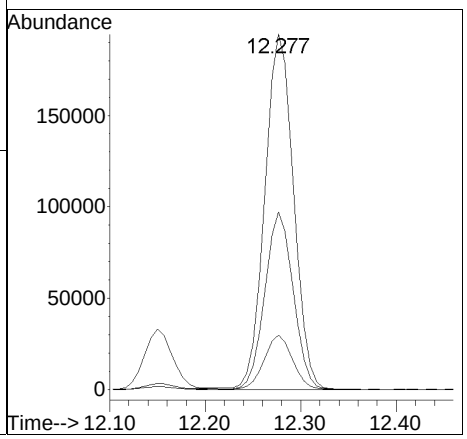


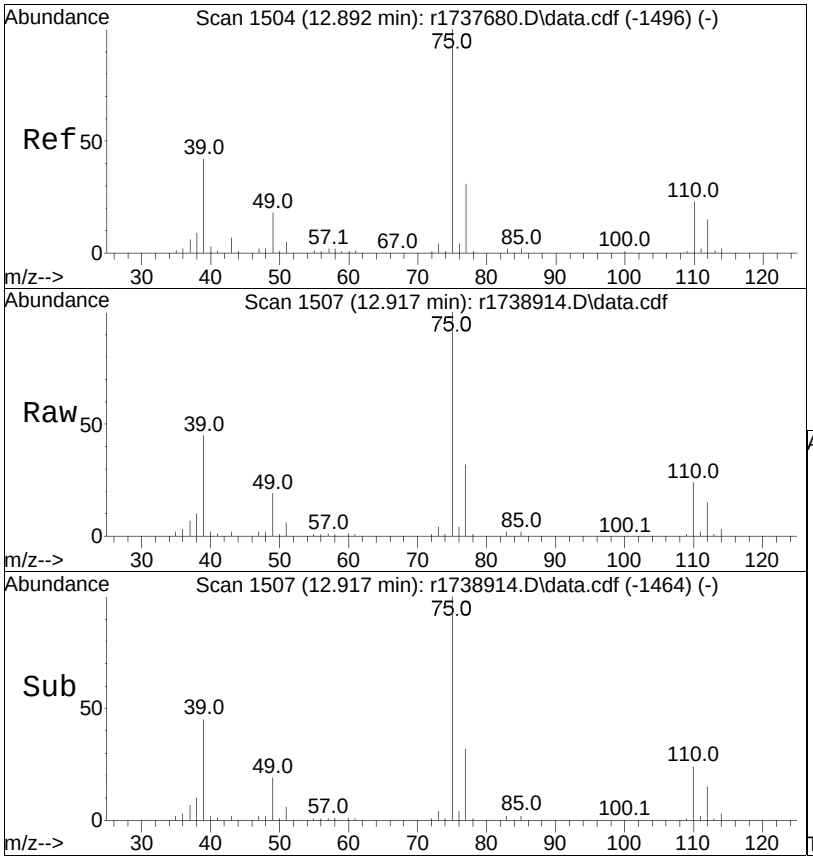


#62
heptane
Concen: 9.24 ppbV
RT: 12.277 min Scan# 1425
Delta R.T. 0.027 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 408170

Ion	Ratio	Lower	Upper
43	100		
57	50.0	33.5	50.3
100	15.3	11.3	16.9

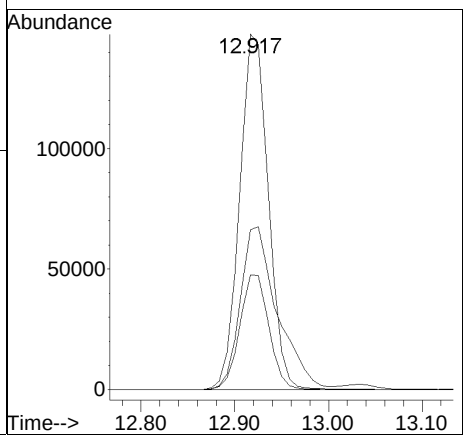


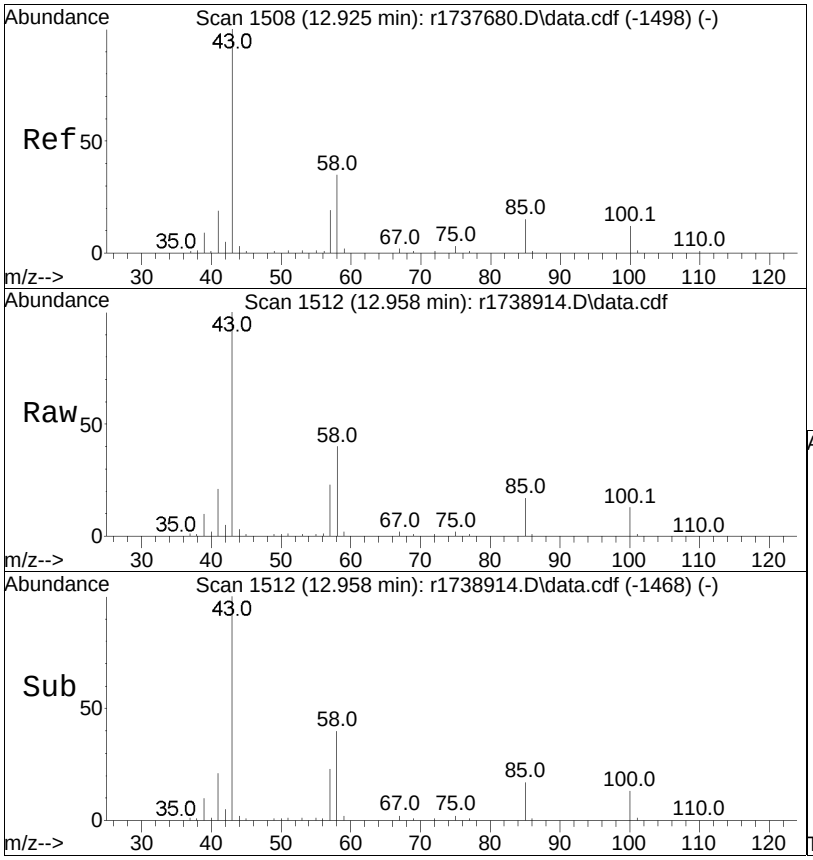


#63
cis-1,3-dichloropropene
Concen: 8.90 ppbV
RT: 12.917 min Scan# 1507
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 75 Resp: 313122

Ion	Ratio	Lower	Upper
75	100		
39	45.0	33.7	50.5
77	32.3	25.1	37.7

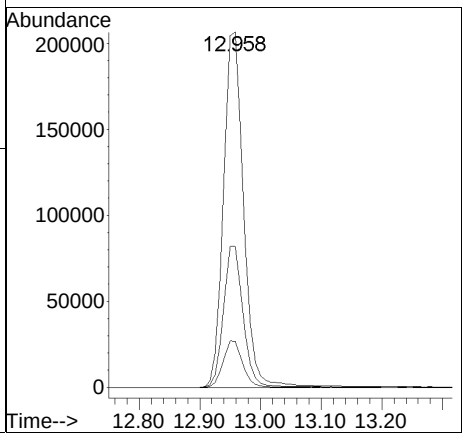


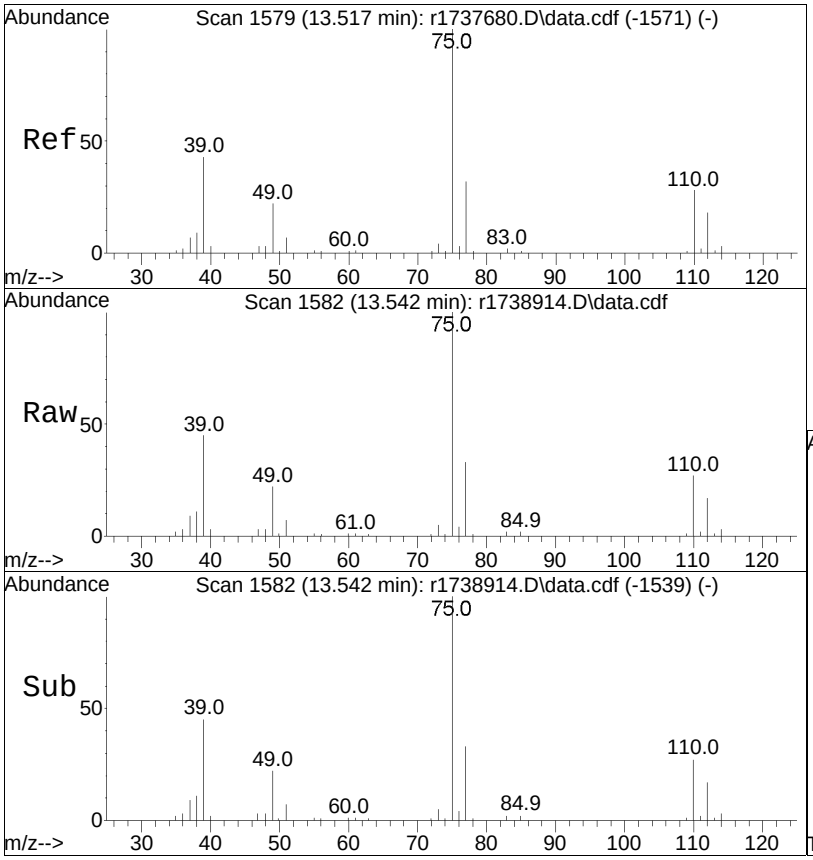


#64
4-methyl-2-pentanone
Concen: 9.15 ppbV
RT: 12.958 min Scan# 1512
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 479207

Ion	Ratio	Lower	Upper
43	100		
58	39.7	27.9	41.9
100	12.9	9.9	14.9

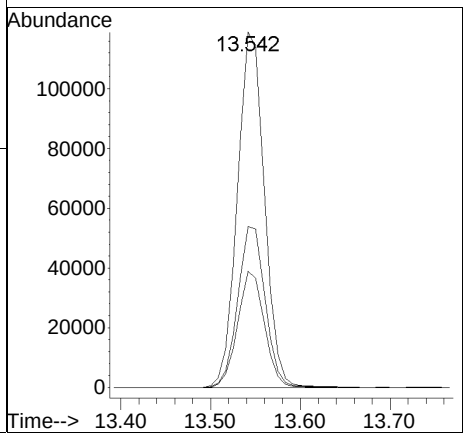


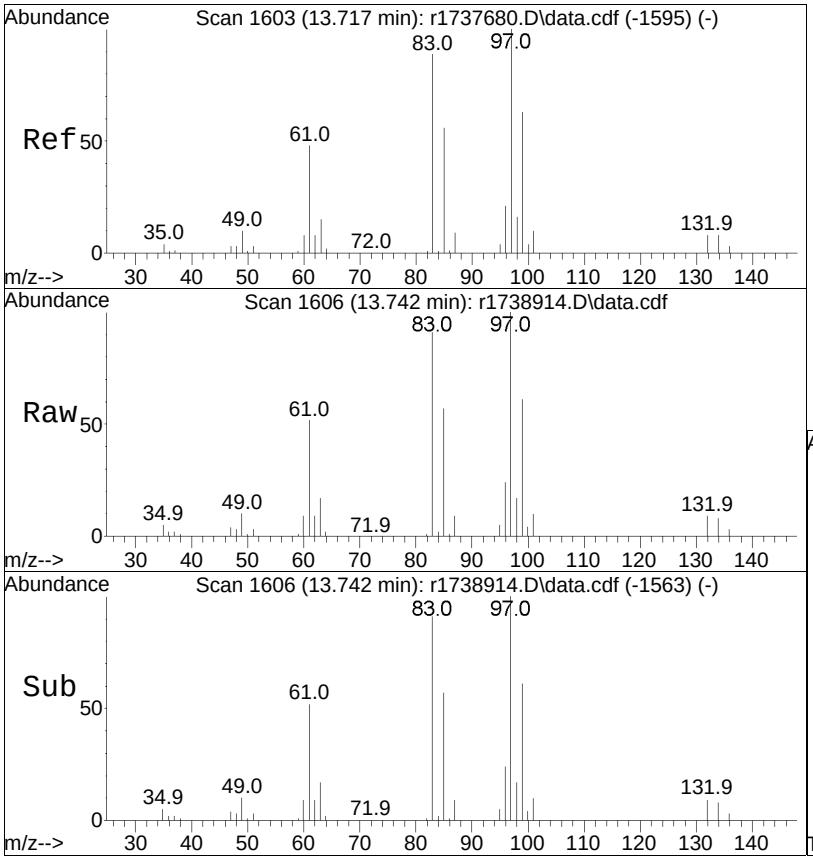


#65
trans-1,3-dichloropropene
Concen: 9.05 ppbV
RT: 13.542 min Scan# 1582
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 75 Resp: 249008

Ion	Ratio	Lower	Upper
75	100		
77	32.7	25.3	37.9
39	45.3	34.2	51.4

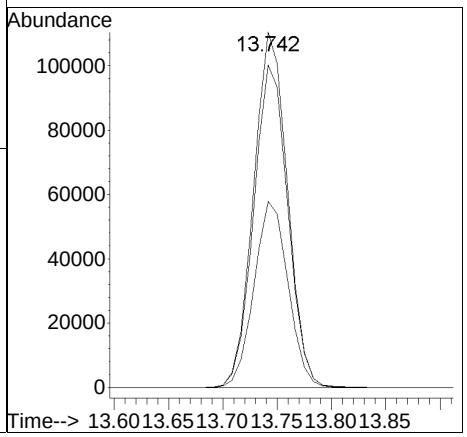


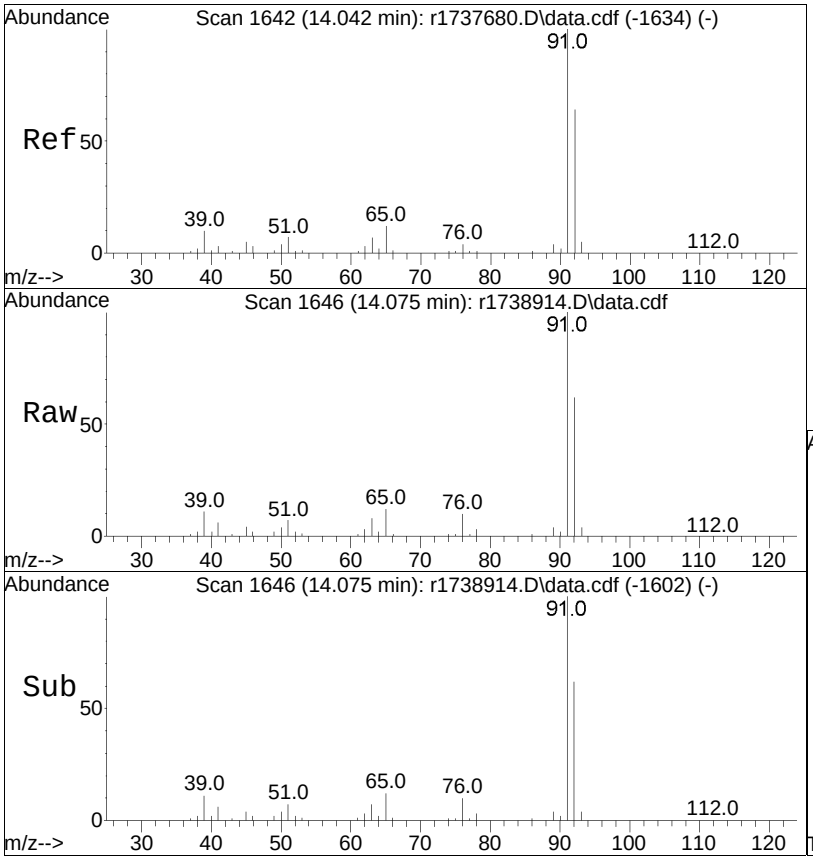


#66
1,1,2-trichloroethane
Concen: 9.99 ppbV
RT: 13.742 min Scan# 1606
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 97 Resp: 239601

Ion	Ratio	Lower	Upper
97	100		
83	90.7	71.0	106.4
61	52.4	38.3	57.5

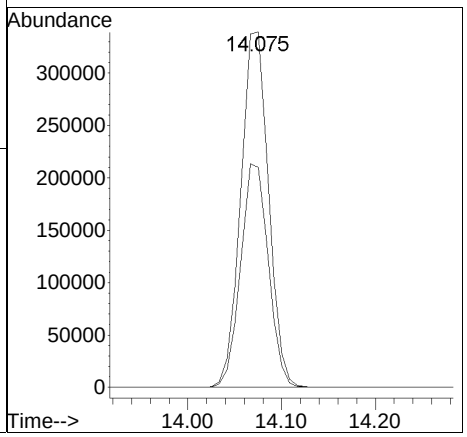


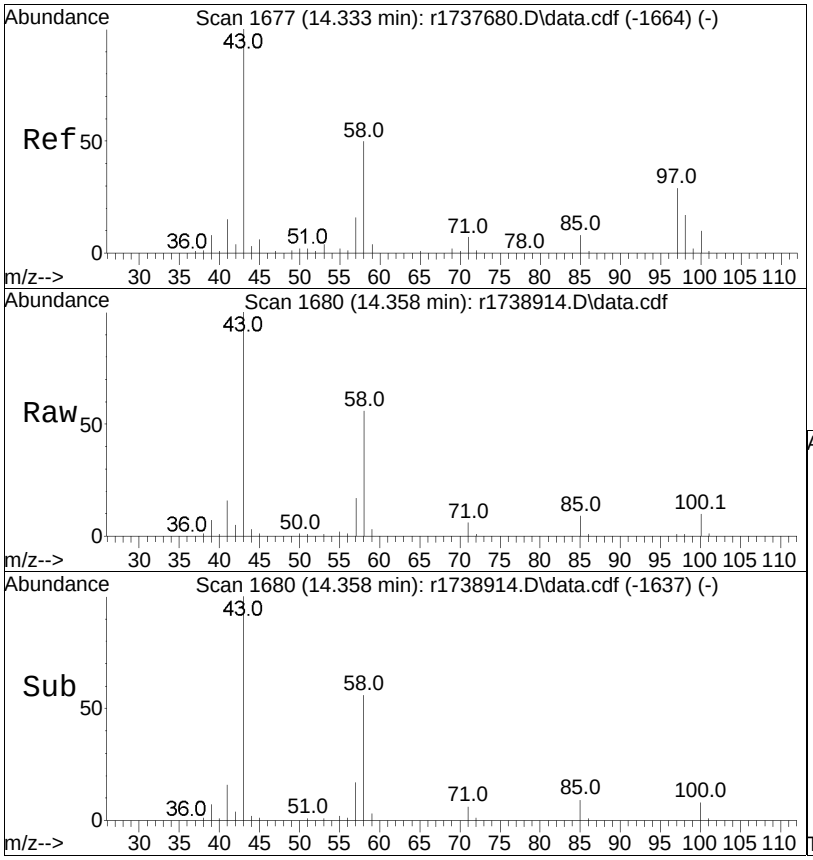


#68
toluene
Concen: 8.99 ppbV
RT: 14.075 min Scan# 1646
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 91 Resp: 700403

Ion	Ratio	Lower	Upper
91	100		
92	61.9	51.2	76.8

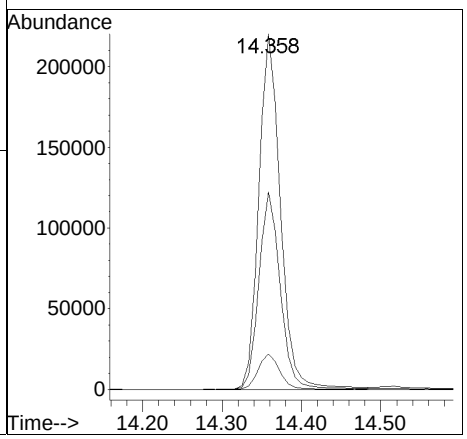


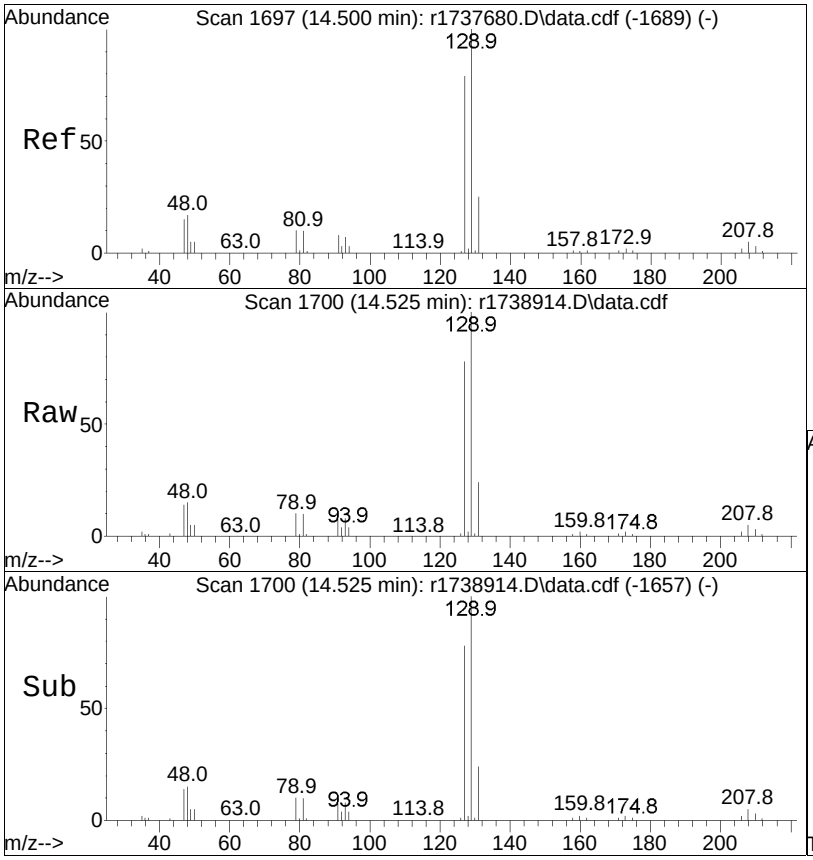


#72
2-hexanone
Concen: 8.27 ppbV
RT: 14.358 min Scan# 1680
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 43 Resp: 418216

Ion	Ratio	Lower	Upper
43	100		
58	55.6	40.1	60.1
100	10.0	8.2	12.4

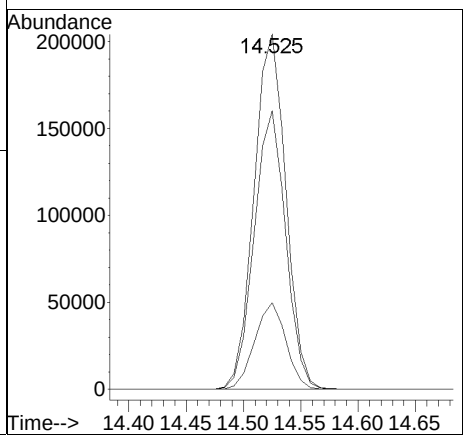


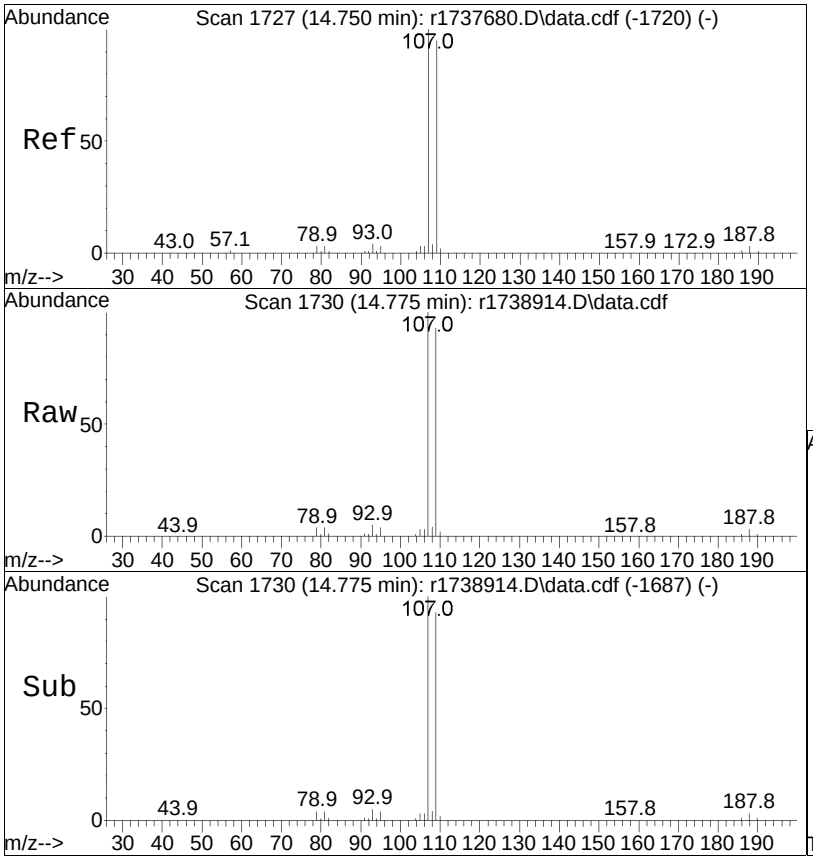


#74
dibromochloromethane
Concen: 12.03 ppbV
RT: 14.525 min Scan# 1700
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:129 Resp: 395889

Ion	Ratio	Lower	Upper
129	100		
127	78.4	63.3	94.9
131	24.4	19.6	29.4

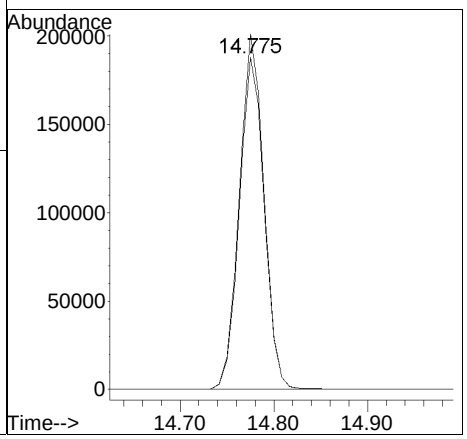


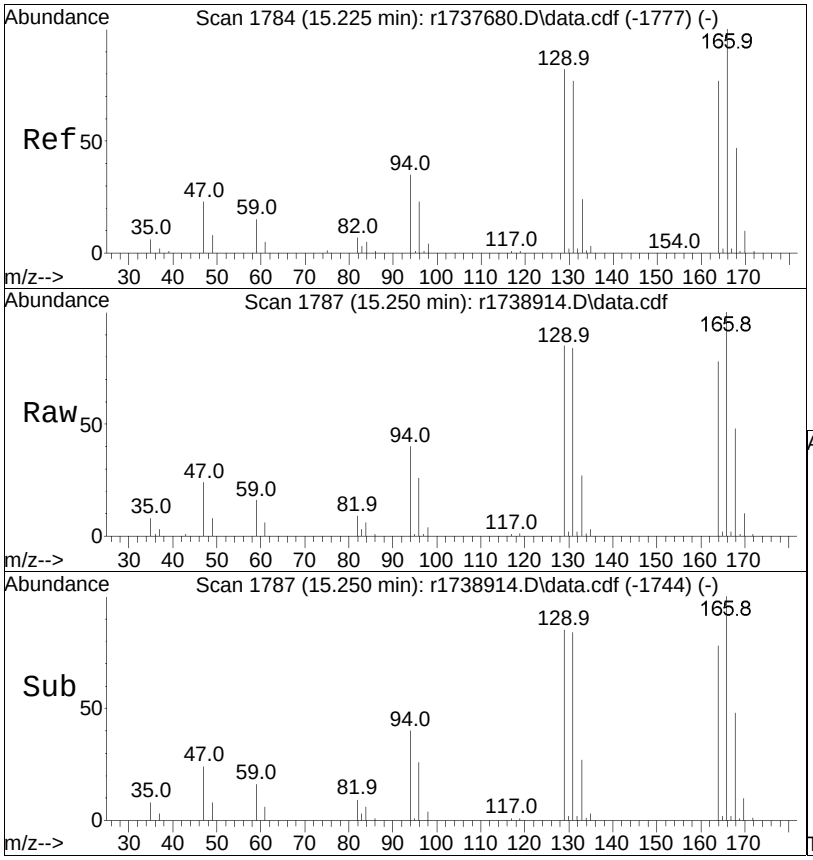


#75
1,2-dibromoethane
Concen: 9.13 ppbV
RT: 14.775 min Scan# 1730
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:107 Resp: 365510

Ion	Ratio	Lower	Upper
107	100		
109	93.4	76.4	114.6

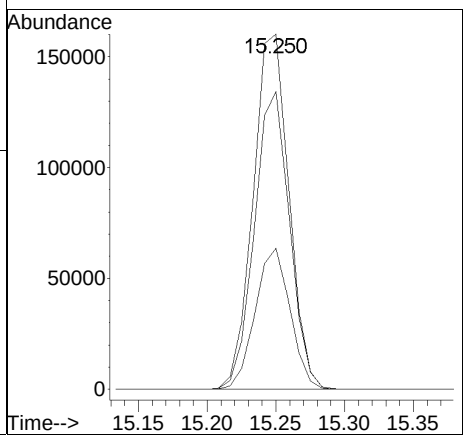


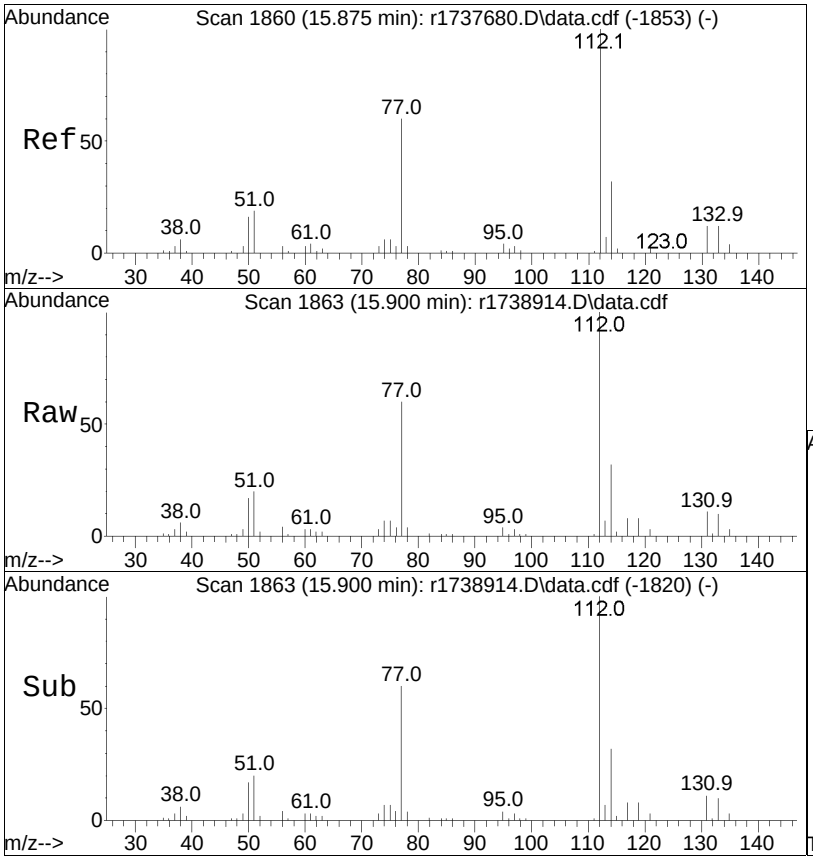


#78
tetrachloroethene
Concen: 9.35 ppbV
RT: 15.250 min Scan# 1787
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:166 Resp: 290988

Ion	Ratio	Lower	Upper
166	100		
131	83.8	61.3	91.9
94	39.7	27.7	41.5

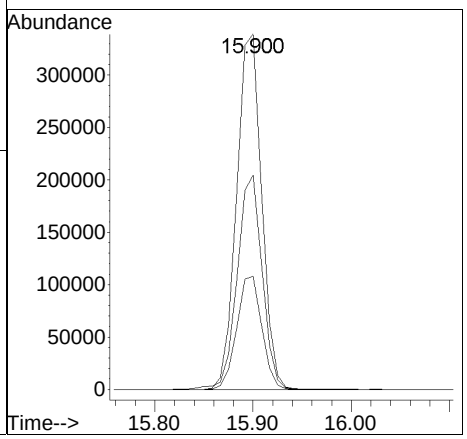


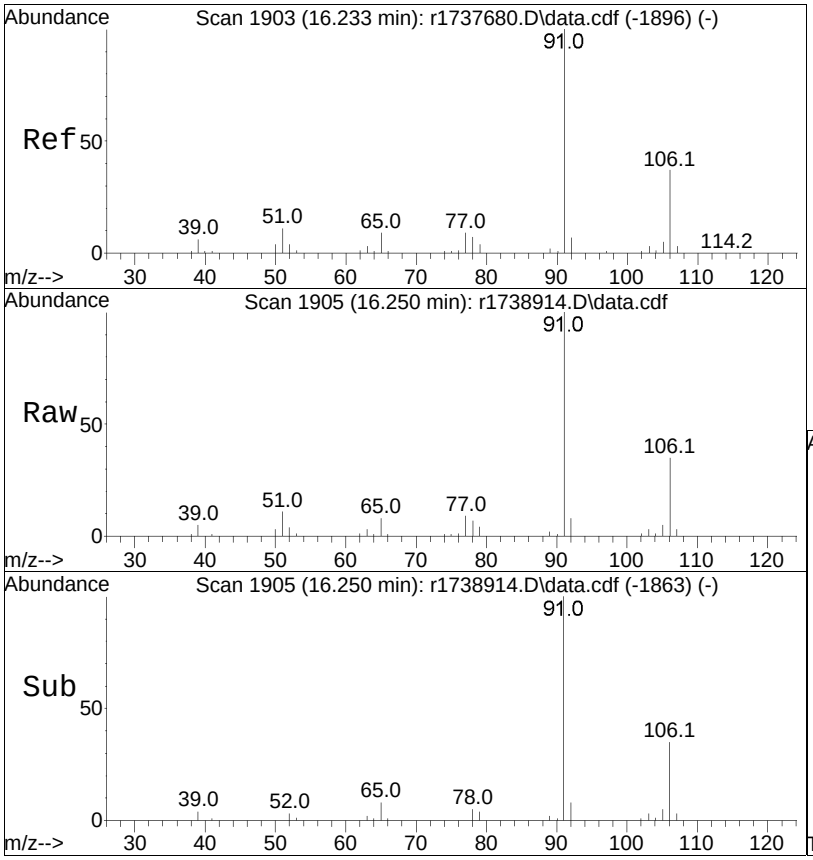


#80
chlorobenzene
Concen: 8.98 ppbV
RT: 15.900 min Scan# 1863
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:112 Resp: 601030

Ion	Ratio	Lower	Upper
112	100		
114	31.8	25.8	38.8
77	60.3	48.4	72.6

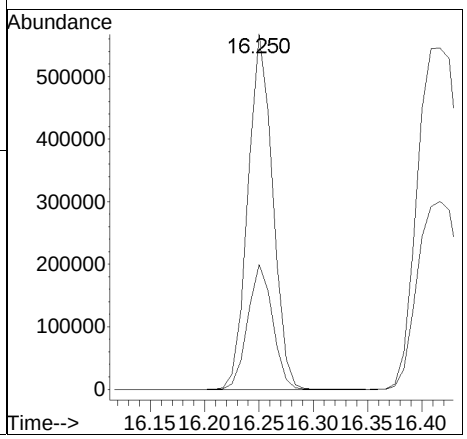


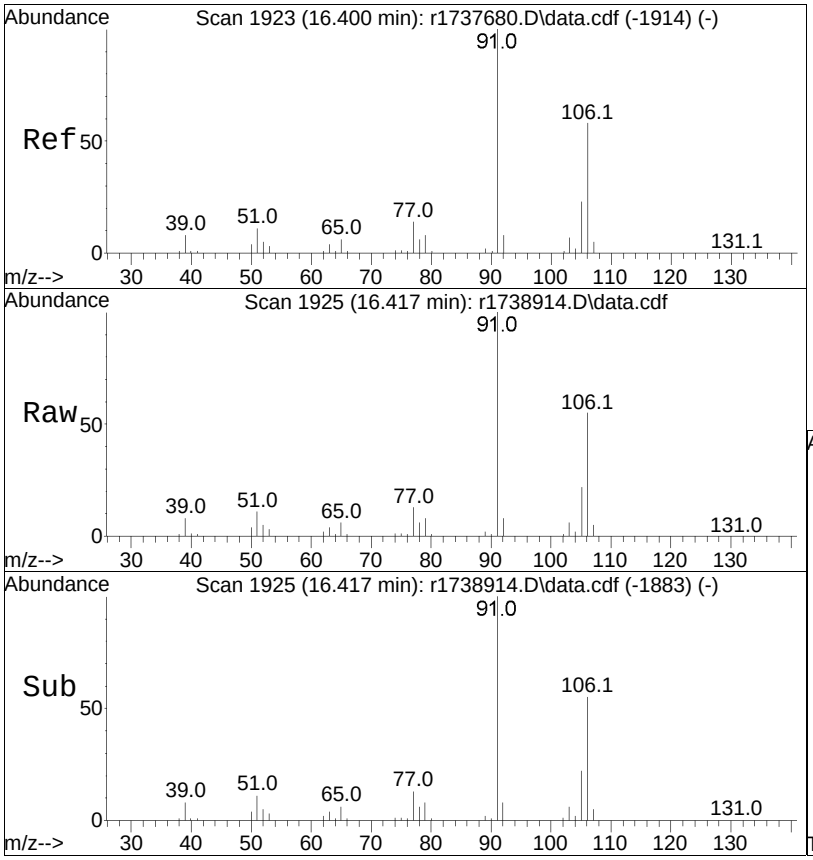


#81
ethylbenzene
Concen: 9.17 ppbV
RT: 16.250 min Scan# 1905
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 91 Resp: 900086

Ion	Ratio	Lower	Upper
91	100		
106	35.2	29.4	44.0

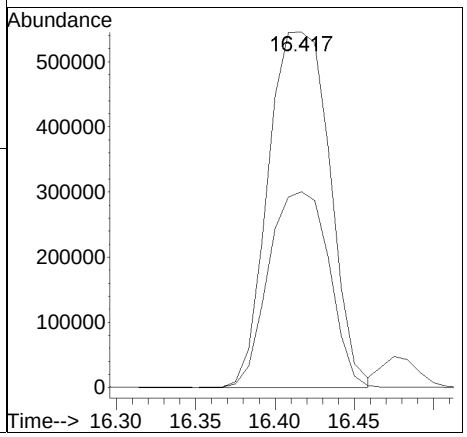


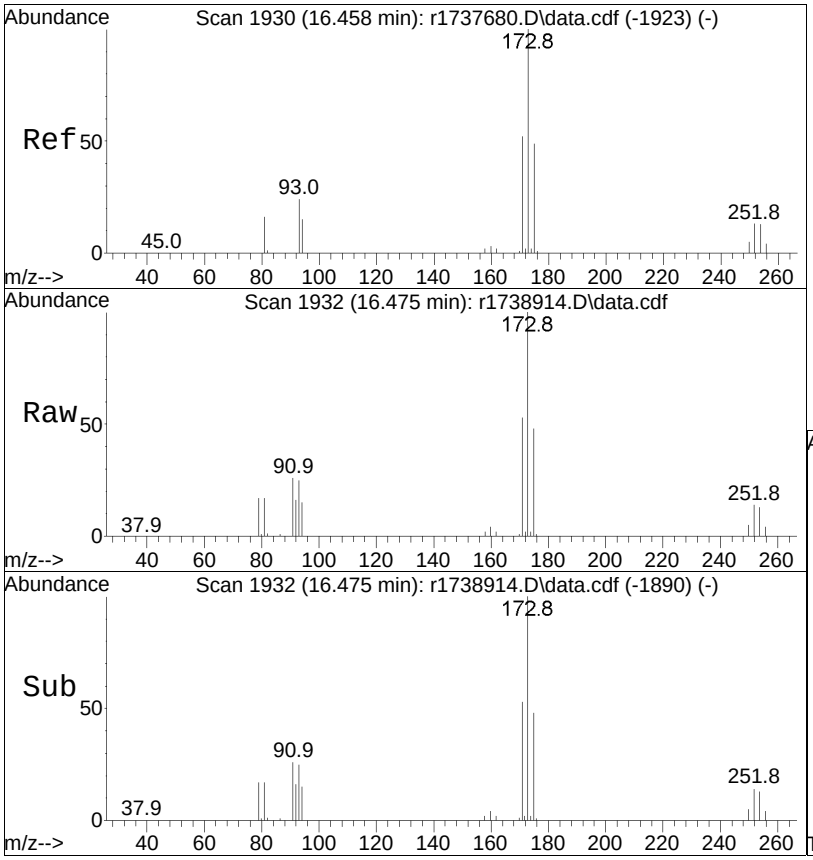


#83
m+p-xylene
Concen: 18.84 ppbV
RT: 16.417 min Scan# 1925
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 91 Resp: 1465571

Ion	Ratio	Lower	Upper
91	100		
106	55.1	46.1	69.1

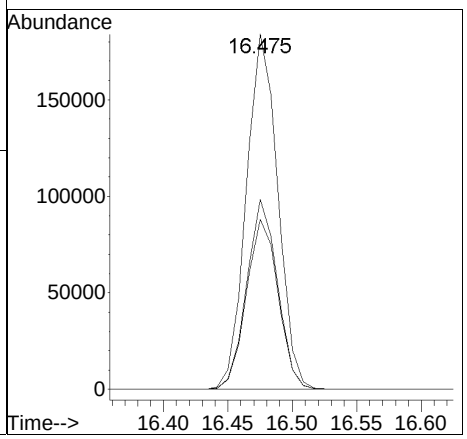


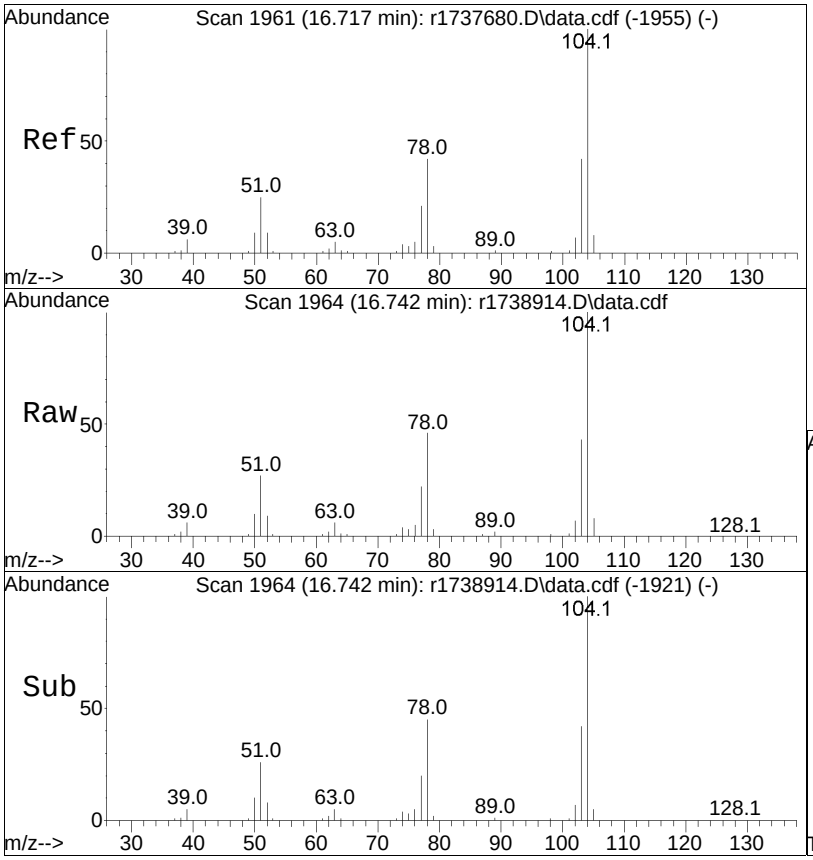


#84
bromoform
Concen: 12.31 ppbV
RT: 16.475 min Scan# 1932
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:173 Resp: 312968

Ion	Ratio	Lower	Upper
173	100		
175	47.8	39.1	58.7
171	53.5	41.8	62.8

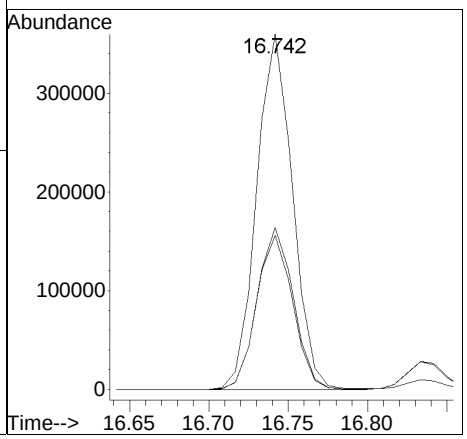


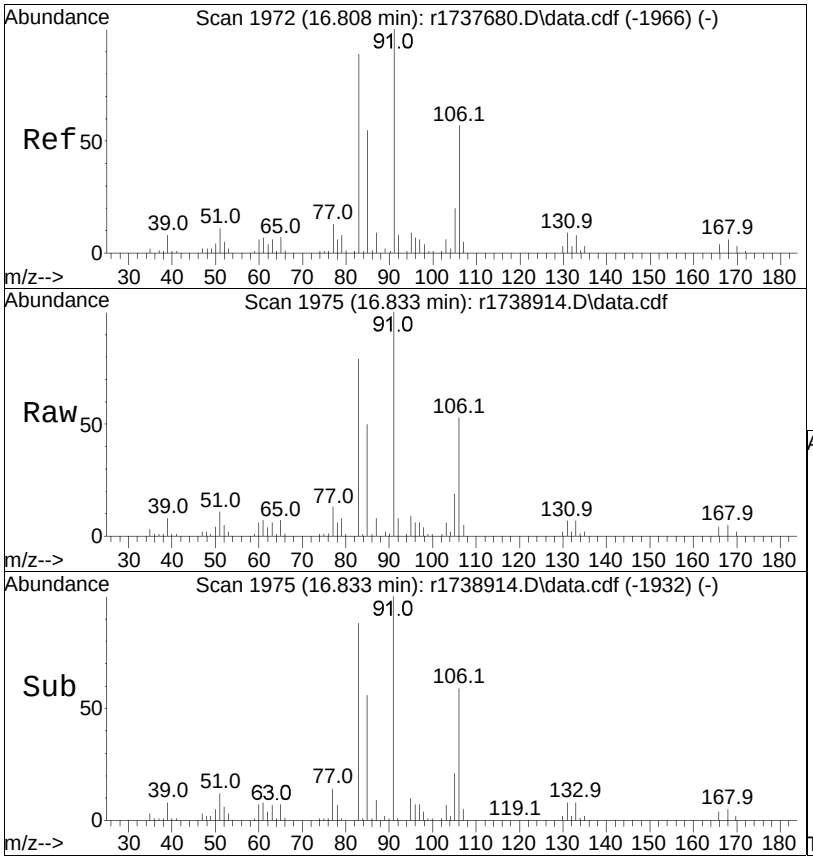


#85
styrene
Concen: 8.59 ppbV
RT: 16.742 min Scan# 1964
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:104 Resp: 565567

Ion	Ratio	Lower	Upper
104	100		
103	43.3	33.9	50.9
78	45.6	33.4	50.2

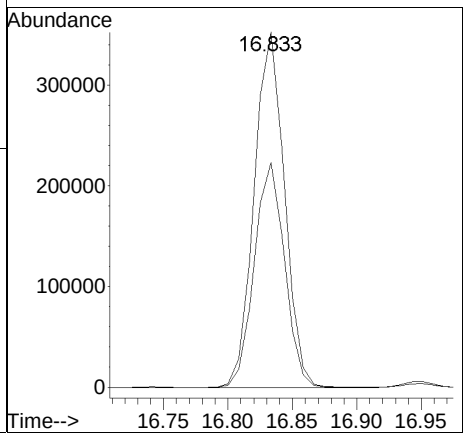


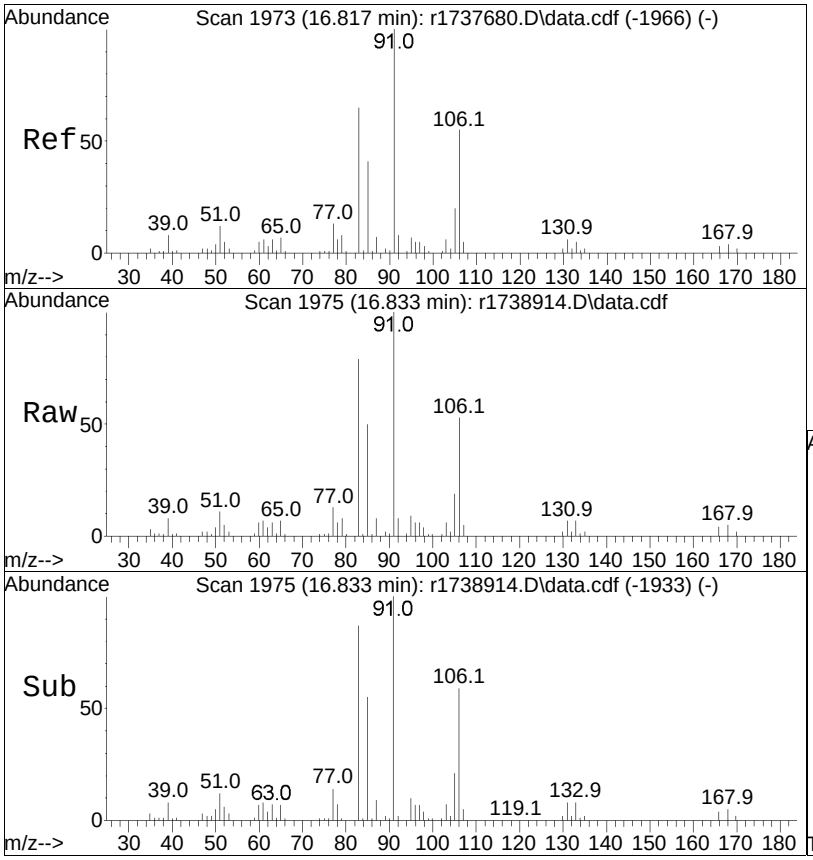


#86
1,1,2,2-tetrachloroethane
Concen: 9.83 ppbV
RT: 16.833 min Scan# 1975
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 83 Resp: 576708

Ion	Ratio	Lower	Upper
83	100		
85	63.3	50.1	75.1

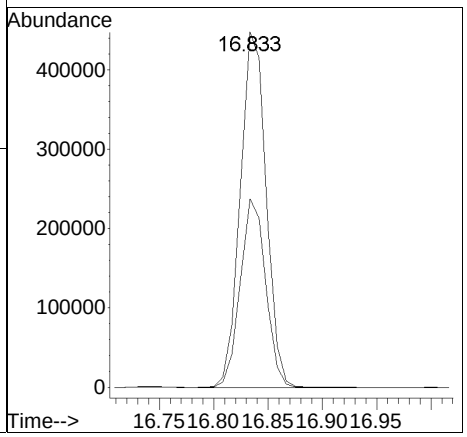


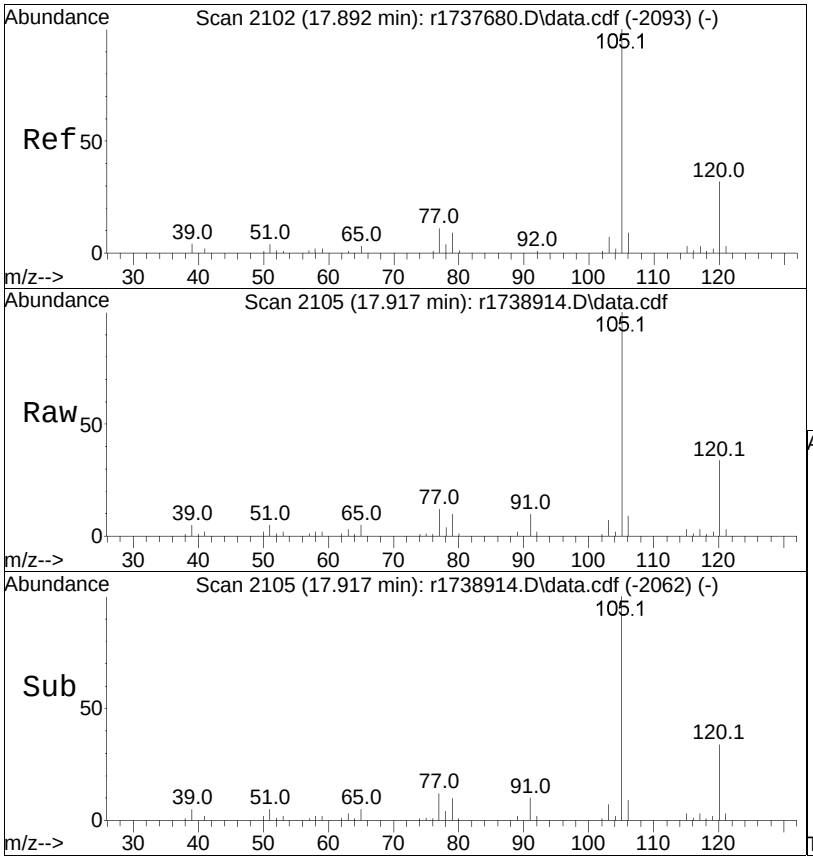


#87
o-xylene
Concen: 9.53 ppbV
RT: 16.833 min Scan# 1975
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 91 Resp: 741712

Ion	Ratio	Lower	Upper
91	100		
106	53.1	44.2	66.4

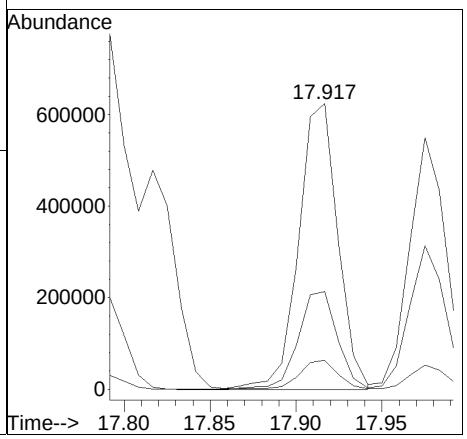


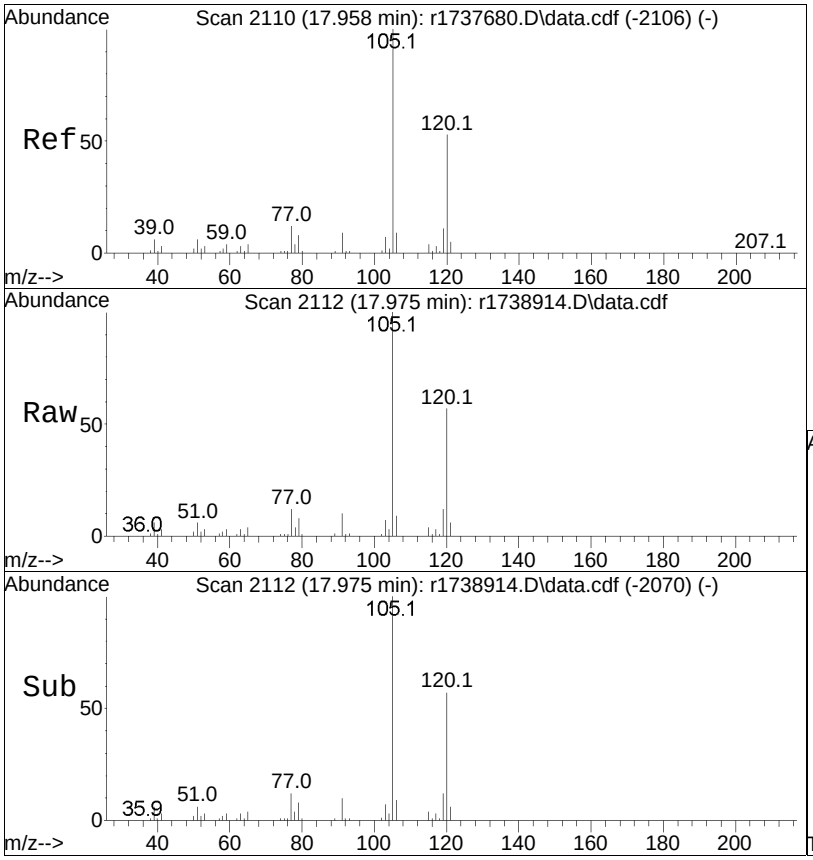


#96
4-ethyl toluene
Concen: 9.22 ppbV
RT: 17.917 min Scan# 2105
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:105 Resp: 989199

Ion	Ratio	Lower	Upper
105	100		
120	34.2	25.8	38.6
91	10.2	7.6	11.4

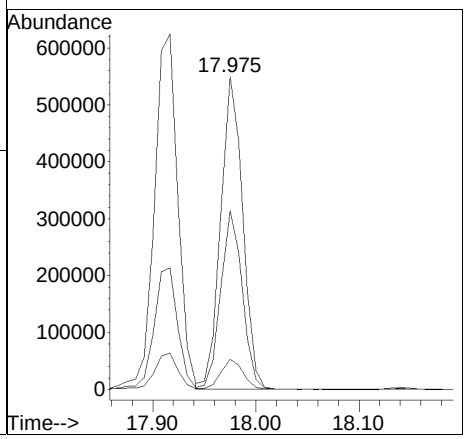


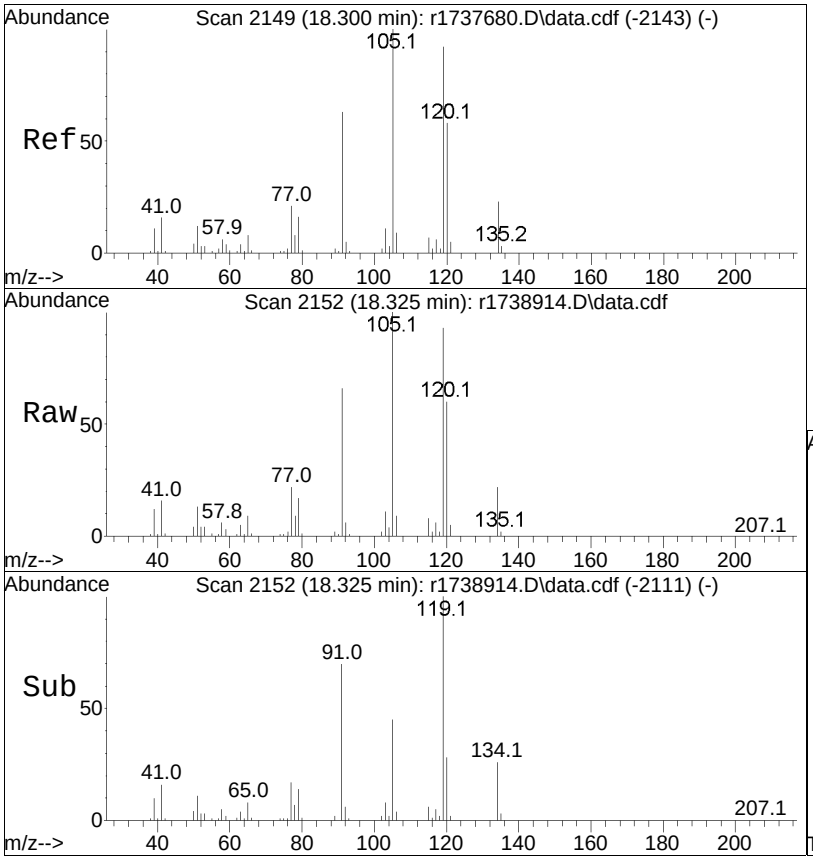


#97
1,3,5-trimethylbenzene
Concen: 9.80 ppbV
RT: 17.975 min Scan# 2112
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:105 Resp: 906589

Ion	Ratio	Lower	Upper
105	100		
120	57.1	42.7	64.1
91	9.7	7.3	10.9

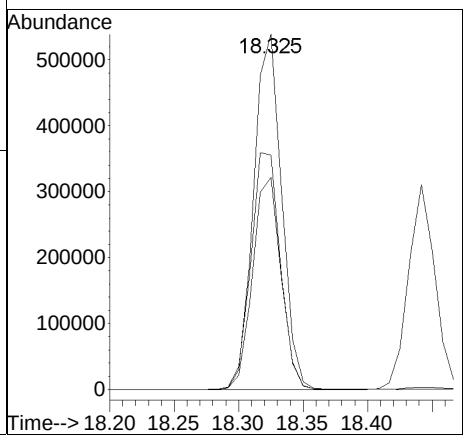


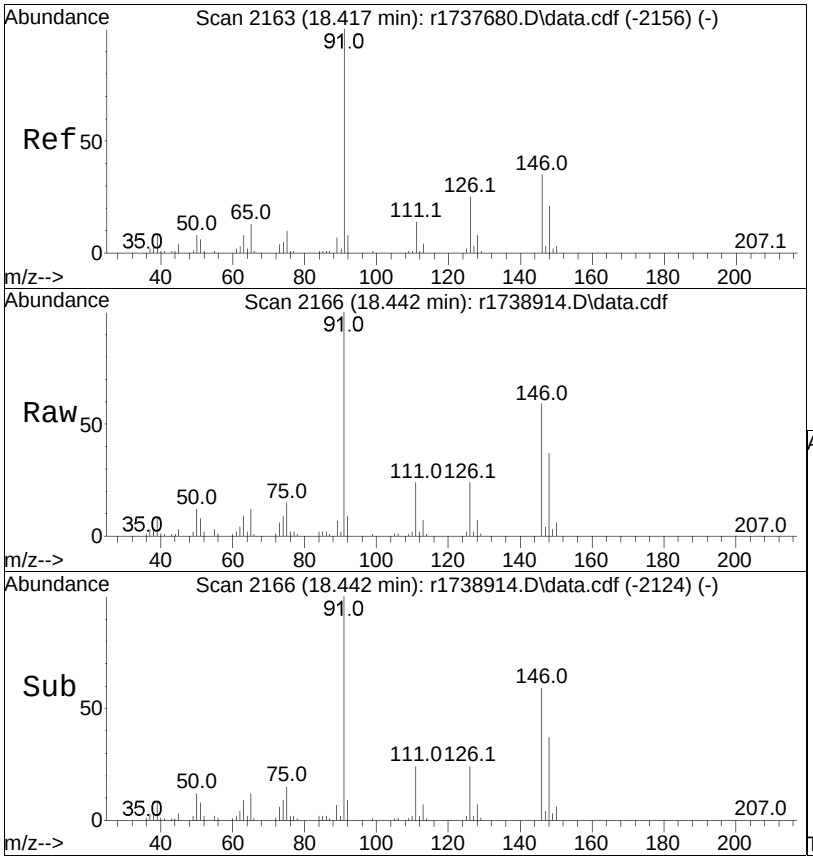


#99
1,2,4-trimethylbenzene
Concen: 8.83 ppbV
RT: 18.325 min Scan# 2152
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:105 Resp: 812837

Ion	Ratio	Lower	Upper
105	100		
120	59.7	46.0	69.0
91	65.9	50.6	76.0

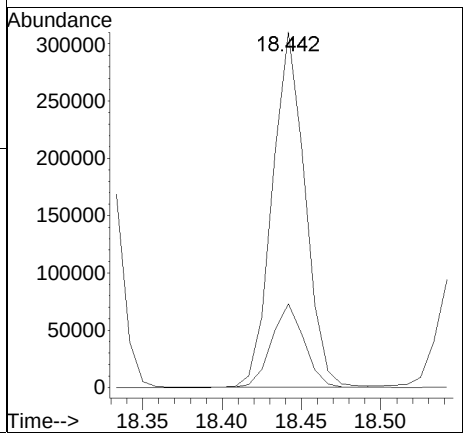


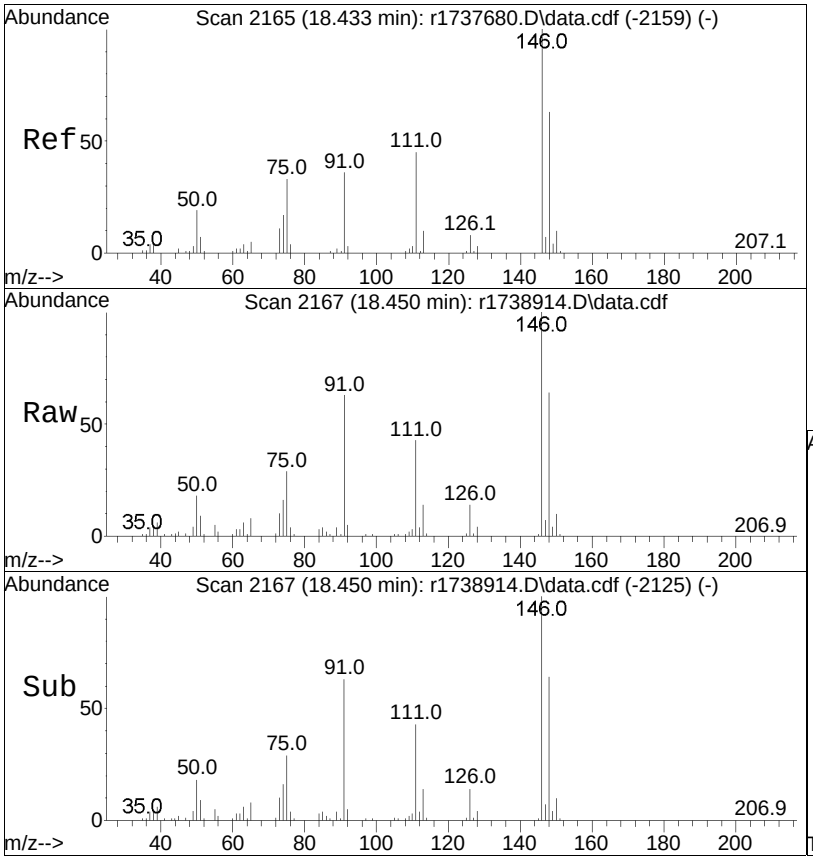


#101
Benzyl Chloride
Concen: 8.69 ppbV
RT: 18.442 min Scan# 2166
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion: 91 Resp: 445200

Ion	Ratio	Lower	Upper
91	100		
126	23.5	19.6	29.4

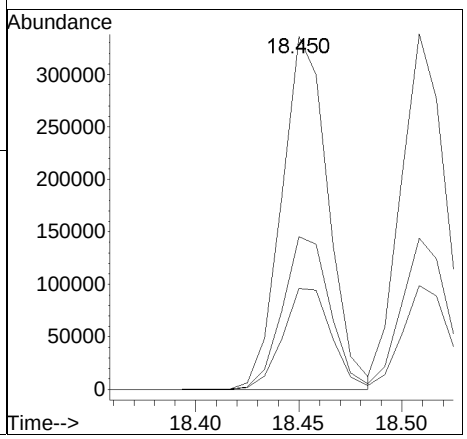


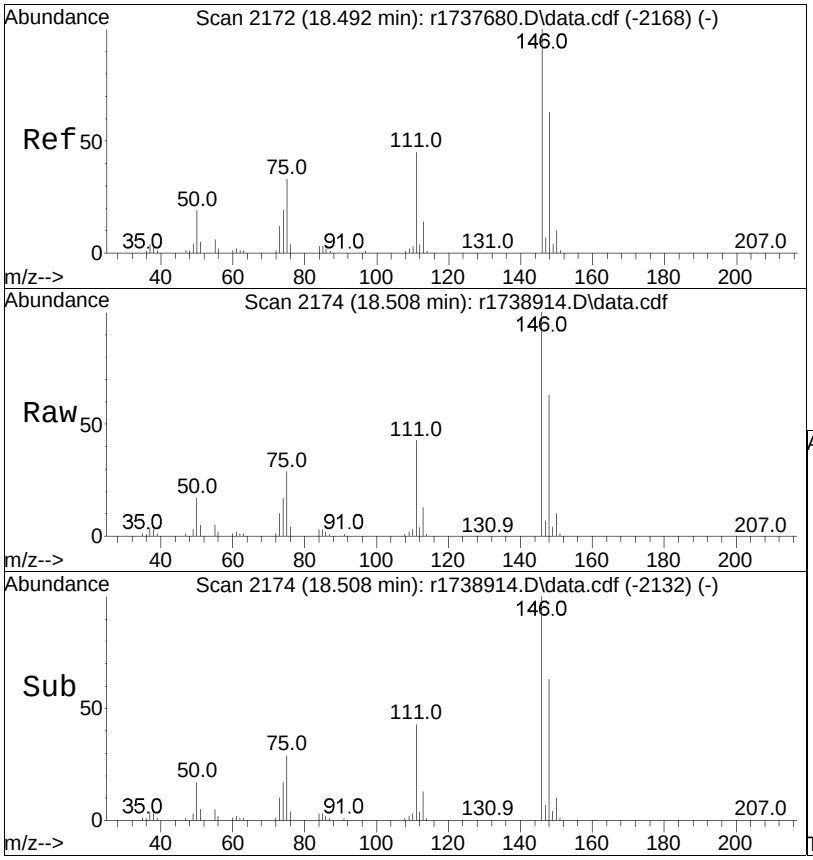


#102
1,3-dichlorobenzene
Concen: 9.51 ppbV
RT: 18.450 min Scan# 2167
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:146 Resp: 526583

Ion	Ratio	Lower	Upper
146	100		
111	43.3	36.2	54.2
75	28.6	26.0	39.0

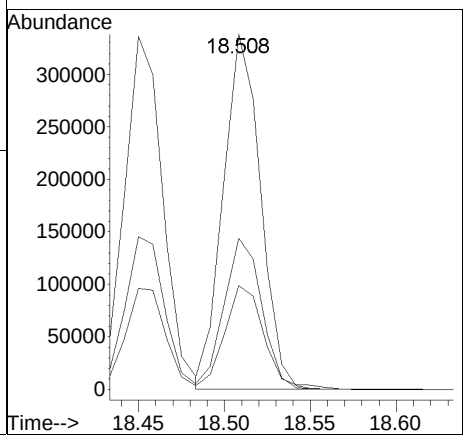


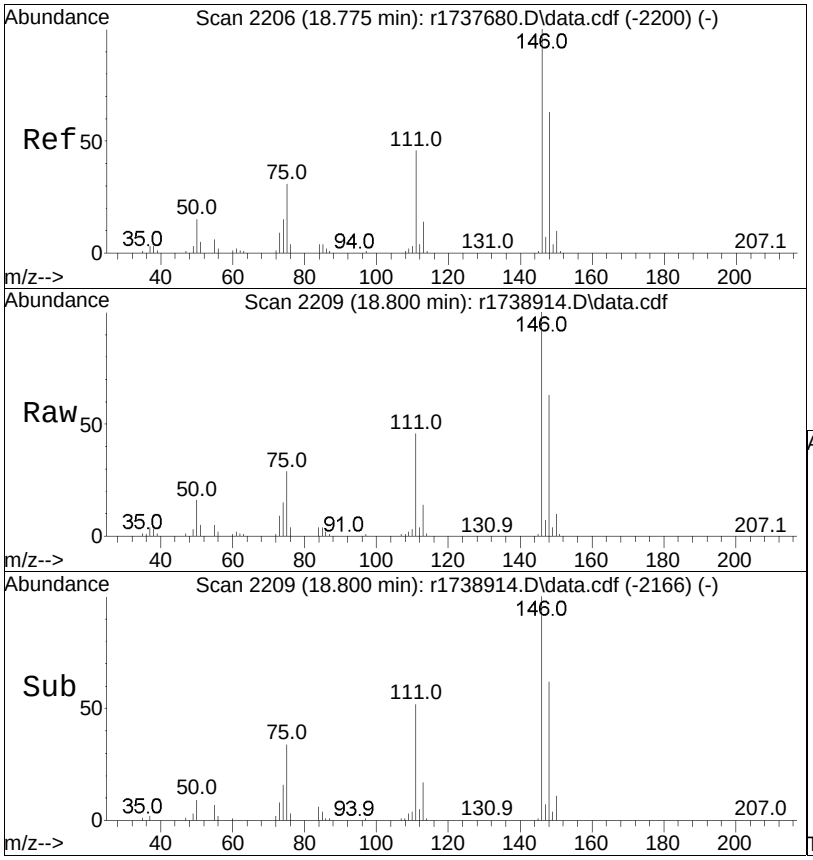


#103
1,4-dichlorobenzene
Concen: 9.45 ppbV
RT: 18.508 min Scan# 2174
Delta R.T. 0.017 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:146 Resp: 509748

Ion	Ratio	Lower	Upper
146	100		
111	42.5	35.8	53.6
75	29.2	26.6	39.8

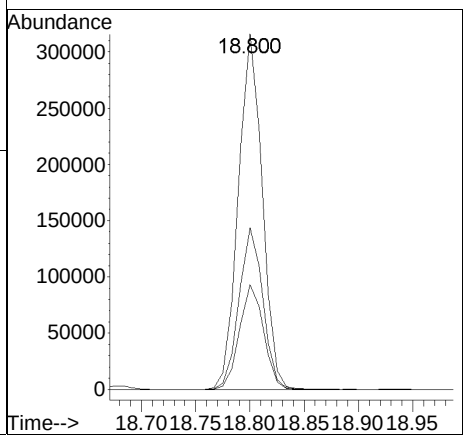


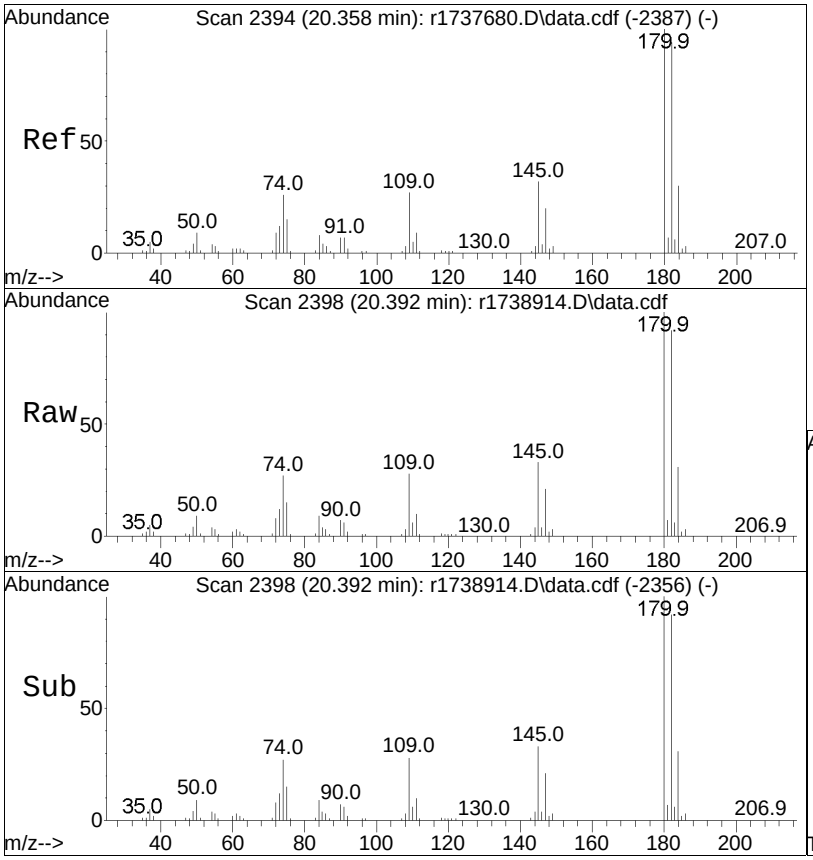


#107
1,2-dichlorobenzene
Concen: 9.18 ppbV
RT: 18.800 min Scan# 2209
Delta R.T. 0.025 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:146 Resp: 484324

Ion	Ratio	Lower	Upper
146	100		
111	45.5	36.5	54.7
75	29.5	24.6	36.8

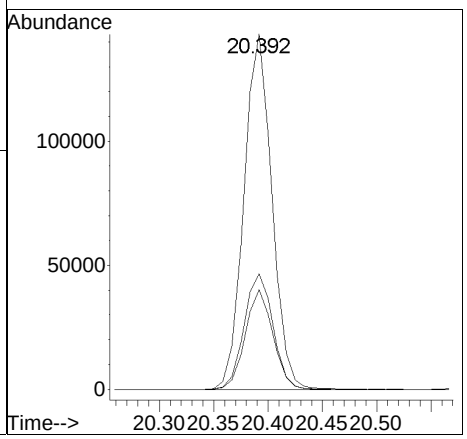


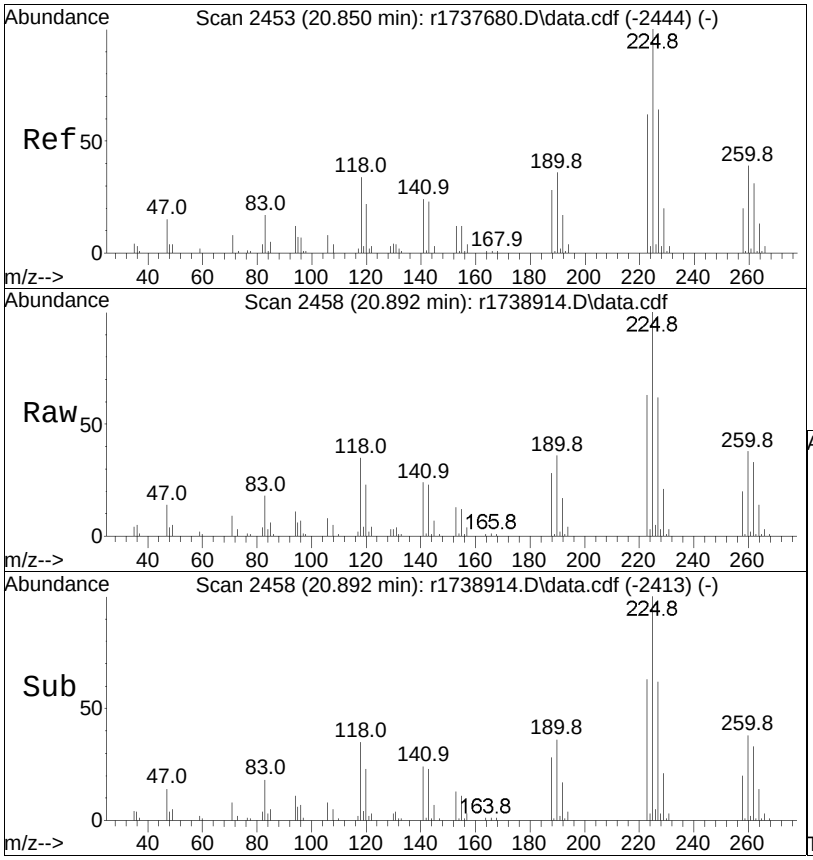


#115
1,2,4-trichlorobenzene
Concen: 7.33 ppbV
RT: 20.392 min Scan# 2398
Delta R.T. 0.033 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:180 Resp: 256443

Ion	Ratio	Lower	Upper
180	100		
145	32.6	25.4	38.2
109	28.1	21.8	32.8

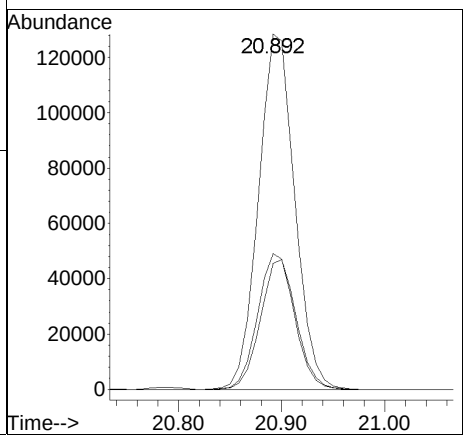




#119
hexachlorobutadiene
Concen: 9.28 ppbV
RT: 20.892 min Scan# 2458
Delta R.T. 0.042 min
Lab File: r1738914.D
Acq: 24 Feb 2024 1:23 PM

Tgt Ion:225 Resp: 313071

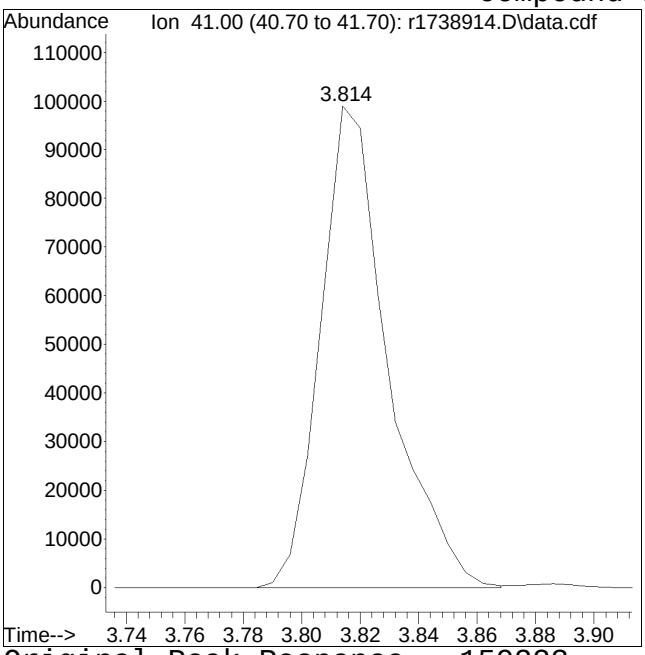
Ion	Ratio	Lower	Upper
225	100		
260	38.2	31.5	47.3
118	35.4	27.3	40.9



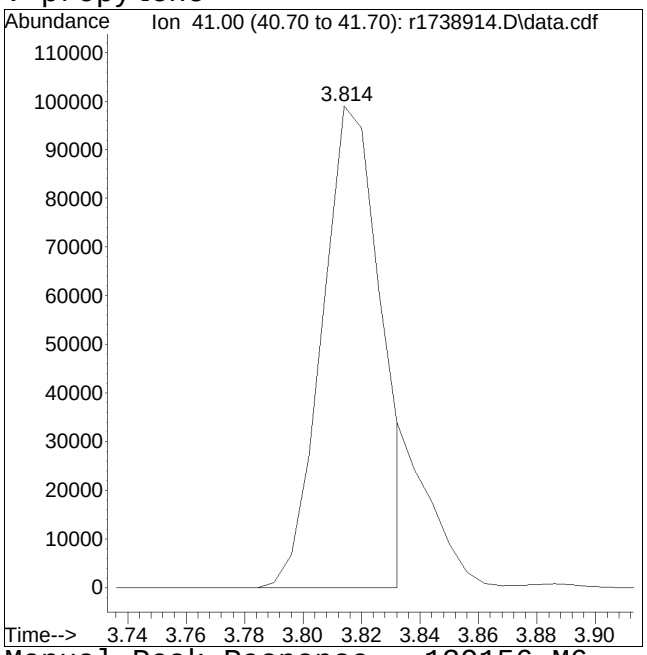
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738914.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2020 0:1: 3 Instrument :
Sample : WG1888881-3,3,250,250 Quant Date : 2/24/2024 1:38 pm

Compound #3: propylene



Original Peak Response = 159223



Manual Peak Response = 139156 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	95	-0.05
2		chlorodifluoromethane	10.000	10.113	-1.1	103	-0.02
3		propylene	10.000	10.566	-5.7	93	-0.02
4		propane	10.000	10.224	-2.2	96	-0.02
5		dichlorodifluoromethane	10.000	9.890	1.1	90	-0.02
6	C	chloromethane	10.000	10.379	-3.8	96	-0.02
7		Freon-114	10.000	11.374	-13.7	101	-0.02
8	C	methanol	50.000	50.756	-1.5	93	-0.02
9	C	vinyl chloride	10.000	11.310	-13.1	102	-0.02
10	C	1,3-butadiene	10.000	12.244	-22.4	111	-0.03
11		butane	10.000	9.199	8.0	90	-0.02
13	C	bromomethane	10.000	11.440	-14.4	102	-0.03
14	C	chloroethane	10.000	10.851	-8.5	99	-0.03
15		ethanol	50.000	59.175	-18.3	107	-0.03
16		dichlorofluoromethane	10.000	9.800	2.0	88	-0.03
17	C	vinyl bromide	10.000	9.570	4.3	88	-0.03
18	C	acrolein	10.000	8.965	10.4	85	-0.03
19		acetone	50.000	42.898	14.2	80	-0.03
20	C	acetonitrile	10.000	8.694	13.1	86	-0.03
21		trichlorofluoromethane	10.000	9.571	4.3	86	-0.04
22		isopropyl alcohol	25.000	19.207	23.2	71	-0.03
23	C	acrylonitrile	10.000	9.230	7.7	89	-0.03
24		pentane	10.000	7.592	24.1	76	-0.04
25		ethyl ether	10.000	7.650	23.5	69	-0.03
26	C	1,1-dichloroethene	10.000	9.438	5.6	86	-0.04
27		tertiary butyl alcohol	10.000	9.964	0.4	91	-0.03
28	C	methylene chloride	10.000	9.734	2.7	90	-0.04
29	C	3-chloropropene	10.000	8.755	12.4	82	-0.04
30	C	carbon disulfide	10.000	8.312	16.9	74	-0.04
31		Freon 113	10.000	8.442	15.6	77	-0.04
32		trans-1,2-dichloroethene	10.000	8.730	12.7	80	-0.04
33	C	1,1-dichloroethane	10.000	8.301	17.0	76	-0.04
34	C	MTBE	10.000	8.698	13.0	80	-0.04
35	C	vinyl acetate	10.000	7.589	24.1	72	-0.04
36	C	2-butanone	10.000	8.444	15.6	77	-0.04
37		cis-1,2-dichloroethene	10.000	8.926	10.7	81	-0.04
38		Ethyl Acetate	10.000	9.503	5.0	84	-0.04
39	C	chloroform	10.000	9.998	0.0	91	-0.04
40		Tetrahydrofuran	10.000	8.250	17.5	78	-0.04

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
41		2,2-dichloropropane	10.000	9.530	4.7	89	-0.04
42	C	1,2-dichloroethane	10.000	9.580	4.2	88	-0.04
43	I	1,4-difluorobenzene	10.000	10.000	0.0	82	-0.05
44	C	hexane	10.000	11.390	-13.9	89	-0.04
45		diisopropyl ether	10.000	10.216	-2.2	84	-0.04
46		tert-butyl ethyl ether	10.000	10.827	-8.3	87	-0.04
48	C	1,1,1-trichloroethane	10.000	11.143	-11.4	86	-0.04
49		1,1-dichloropropene	10.000	10.217	-2.2	85	-0.05
50	C	benzene	10.000	9.236	7.6	74	-0.04
52	C	carbon tetrachloride	10.000	12.102	-21.0	90	-0.05
53		cyclohexane	10.000	11.149	-11.5	89	-0.05
54		tert-amyl methyl ether	10.000	9.705	2.9	79	-0.05
55		dibromomethane	10.000	10.793	-7.9	88	-0.05
56	C	1,2-dichloropropane	10.000	9.698	3.0	76	-0.04
57		bromodichloromethane	10.000	12.744	-27.4	97	-0.04
58	C	1,4-dioxane	10.000	11.409	-14.1	89	-0.05
59	C	trichloroethene	10.000	10.706	-7.1	84	-0.04
60	C	2,2,4-trimethylpentane	10.000	11.214	-12.1	94	-0.04
61		methyl methacrylate	10.000	11.375	-13.8	87	-0.04
62		heptane	10.000	10.649	-6.5	85	-0.04
63	C	cis-1,3-dichloropropene	10.000	10.428	-4.3	79	-0.04
64	C	4-methyl-2-pentanone	10.000	11.013	-10.1	86	-0.04
65		trans-1,3-dichloropropene	10.000	10.923	-9.2	81	-0.04
66	C	1,1,2-trichloroethane	10.000	10.032	-0.3	78	-0.04
67	I	chlorobenzene-D5	10.000	10.000	0.0	105	-0.03
68	C	toluene	10.000	7.923	20.8	82	-0.04
71		1,3-dichloropropane	10.000	7.722	22.8	84	-0.04
72		2-hexanone	10.000	8.772	12.3	85	-0.04
74		dibromochloromethane	10.000	10.647	-6.5	103	-0.03
75	C	1,2-dibromoethane	10.000	7.943	20.6	78	-0.03
76		butyl acetate	10.000	7.403	26.0	78	-0.03
77		octane	10.000	8.116	18.8	89	-0.03
78	C	tetrachloroethene	10.000	8.391	16.1	83	-0.03
79		1,1,1,2-tetrachloroethane	10.000	9.079	9.2	94	-0.03
80	C	chlorobenzene	10.000	8.284	17.2	83	-0.03
81	C	ethylbenzene	10.000	8.329	16.7	84	-0.02
83	C	m+p-xylene	20.000	17.811	10.9	88	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
84	C	bromoform	10.000	11.362	-13.6	103	-0.03
85	C	styrene	10.000	8.321	16.8	80	-0.02
86	C	1,1,2,2-tetrachloroethane	10.000	9.531	4.7	95	-0.03
87	C	o-xylene	10.000	9.357	6.4	92	-0.03
88		1,2,3-trichloropropane	10.000	8.590	14.1	91	-0.03
89		nonane	10.000	8.324	16.8	88	-0.03
91	C	isopropylbenzene	10.000	8.836	11.6	91	-0.02
92		bromobenzene	10.000	8.772	12.3	93	-0.03
93		2-chlorotoluene	10.000	9.042	9.6	96	-0.02
94		n-propylbenzene	10.000	9.185	8.1	96	-0.03
95		4-chlorotoluene	10.000	9.346	6.5	99	-0.02
96		4-ethyl toluene	10.000	9.412	5.9	91	-0.03
97		1,3,5-trimethylbenzene	10.000	9.112	8.9	89	-0.03
98		tert-butylbenzene	10.000	9.658	3.4	96	-0.03
99		1,2,4-trimethylbenzene	10.000	9.691	3.1	90	-0.02
100		decane	10.000	9.878	1.2	101	-0.03
101	C	Benzyl Chloride	10.000	11.157	-11.6	100	-0.03
102		1,3-dichlorobenzene	10.000	9.907	0.9	92	-0.03
103	C	1,4-dichlorobenzene	10.000	9.920	0.8	93	-0.03
104		sec-butylbenzene	10.000	9.114	8.9	92	-0.02
106		p-isopropyltoluene	10.000	9.139	8.6	90	-0.02
107		1,2-dichlorobenzene	10.000	9.484	5.2	91	-0.02
108		n-butylbenzene	10.000	10.032	-0.3	102	-0.02
111	C	1,2-dibromo-3-chloropropane	10.000	9.858	1.4	97	-0.02
112		undecane	10.000	10.364	-3.6	103	-0.02
114		dodecane	10.000	10.926	-9.3	101	-0.02
115	C	1,2,4-trichlorobenzene	10.000	10.409	-4.1	93	-0.03
116		naphthalene	10.000	10.601	-6.0	110	-0.03
117		1,2,3-trichlorobenzene	10.000	10.246	-2.5	107	-0.03
119	C	hexachlorobutadiene	10.000	9.270	7.3	84	-0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	280213	10.000	ppbV	-0.05
Standard Area = 280213			Recovery = 100.00%			
43) 1,4-difluorobenzene	11.173	114	768332	10.000	ppbV	-0.05
Standard Area = 768332			Recovery = 100.00%			
67) chlorobenzene-D5	15.917	54	143122	10.000	ppbV	-0.03
Standard Area = 143122			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
3) propylene	3.810	41	203407M6	10.566	ppbV	
5) dichlorodifluoromethane	3.882	85	322694	9.890	ppbV	98
6) chloromethane	4.044	50	166897	10.379	ppbV	98
7) Freon-114	4.146	85	455049	11.374	ppbV	98
9) vinyl chloride	4.266	62	248053	11.310	ppbV	98
10) 1,3-butadiene	4.404	54	187032	12.244	ppbV	83
13) bromomethane	4.680	94	178741	11.440	ppbV	100
14) chloroethane	4.866	64	122107	10.851	ppbV	98
15) ethanol	4.992	31	660658	59.175	ppbV	92
17) vinyl bromide	5.240	106	173869	9.570	ppbV	99
19) acetone	5.503	43	1281330	42.898	ppbV	94
21) trichlorofluoromethane	5.697	101	324978	9.571	ppbV	99
22) isopropyl alcohol	5.780	45	699769	19.207	ppbV	100
26) 1,1-dichloroethene	6.394	61	309399	9.438	ppbV	93
27) tertiary butyl alcohol	6.442	59	433208	9.964	ppbV	98
28) methylene chloride	6.532	49	212314	9.734	ppbV	95
29) 3-chloropropene	6.664	41	285470	8.755	ppbV	96
30) carbon disulfide	6.838	76	501747	8.312	ppbV	96
31) Freon 113	6.832	101	321440	8.442	ppbV	97
32) trans-1,2-dichloroethene	7.583	61	293801	8.730	ppbV	94
33) 1,1-dichloroethane	7.808	63	358528	8.301	ppbV	99
34) MTBE	7.875	73	484235	8.698	ppbV	95
35) vinyl acetate	7.992	43	355041	7.589	ppbV	99
36) 2-butanone	8.250	43	406770	8.444	ppbV	96
37) cis-1,2-dichloroethene	8.758	61	280982	8.926	ppbV	94
38) Ethyl Acetate	9.025	61	79527	9.503	ppbV	99
39) chloroform	9.100	83	340158	9.998	ppbV	100
40) Tetrahydrofuran	9.533	42	246567	8.250	ppbV	96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
42) 1,2-dichloroethane	9.933	62	241830	9.580	ppbV		97
44) hexane	9.008	57	393378	11.390	ppbV		89
48) 1,1,1-trichloroethane	10.225	97	301694	11.143	ppbV		99
50) benzene	10.753	78	583496	9.236	ppbV	#	92
52) carbon tetrachloride	10.920	117	261612	12.102	ppbV		99
53) cyclohexane	11.067	56	404157	11.149	ppbV		95
56) 1,2-dichloropropane	11.700	63	248290	9.698	ppbV		97
57) bromodichloromethane	11.933	83	356923	12.744	ppbV		98
58) 1,4-dioxane	11.967	88	160195	11.409	ppbV		99
59) trichloroethene	11.980	130	267776	10.706	ppbV		97
60) 2,2,4-trimethylpentane	12.027	57	1296899	11.214	ppbV		97
62) heptane	12.347	43	438452	10.649	ppbV		94
63) cis-1,3-dichloropropene	13.000	75	324682	10.428	ppbV		97
64) 4-methyl-2-pentanone	13.033	43	530320	11.013	ppbV		97
65) trans-1,3-dichloropropene	13.625	75	267546	10.923	ppbV		99
66) 1,1,2-trichloroethane	13.825	97	239925	10.032	ppbV		94
68) toluene	14.142	91	782354	7.923	ppbV		99
72) 2-hexanone	14.425	43	499795	8.772	ppbV		96
74) dibromochloromethane	14.592	129	365899	10.647	ppbV		99
75) 1,2-dibromoethane	14.842	107	348030	7.943	ppbV		99
78) tetrachloroethene	15.308	166	339414	8.391	ppbV		94
80) chlorobenzene	15.950	112	611667	8.284	ppbV		100
81) ethylbenzene	16.308	91	1019044	8.329	ppbV		94
83) m+p-xylene	16.467	91	1743345	17.811	ppbV		93
84) bromoform	16.533	173	347294	11.362	ppbV		98
85) styrene	16.800	104	671063	8.321	ppbV		96
86) 1,1,2,2-tetrachloroethane	16.892	83	634240	9.531	ppbV		99
87) o-xylene	16.892	91	908706	9.357	ppbV		94
96) 4-ethyl toluene	17.967	105	1204787	9.412	ppbV		97
97) 1,3,5-trimethylbenzene	18.025	105	1032719	9.112	ppbV		96
99) 1,2,4-trimethylbenzene	18.375	105	1060325	9.691	ppbV		98
101) Benzyl Chloride	18.492	91	743551	11.157	ppbV		98
102) 1,3-dichlorobenzene	18.508	146	728524	9.907	ppbV		99
103) 1,4-dichlorobenzene	18.558	146	728105	9.920	ppbV		97
107) 1,2-dichlorobenzene	18.850	146	681736	9.484	ppbV		98
115) 1,2,4-trichlorobenzene	20.333	180	622952	10.409	ppbV		96
119) hexachlorobutadiene	20.767	225	529902	9.270	ppbV		99

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

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

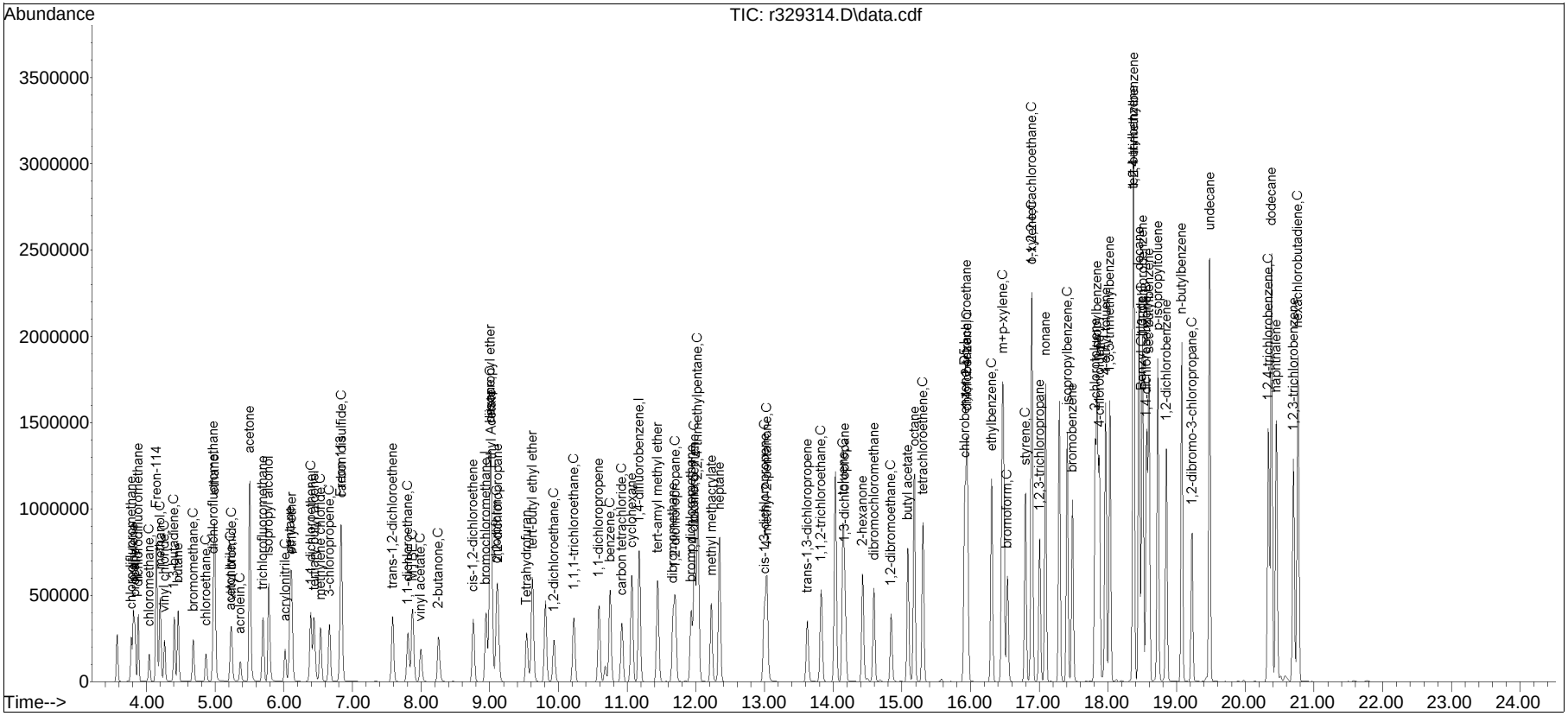
CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : Default-LCS-AP2 - All compounds listed

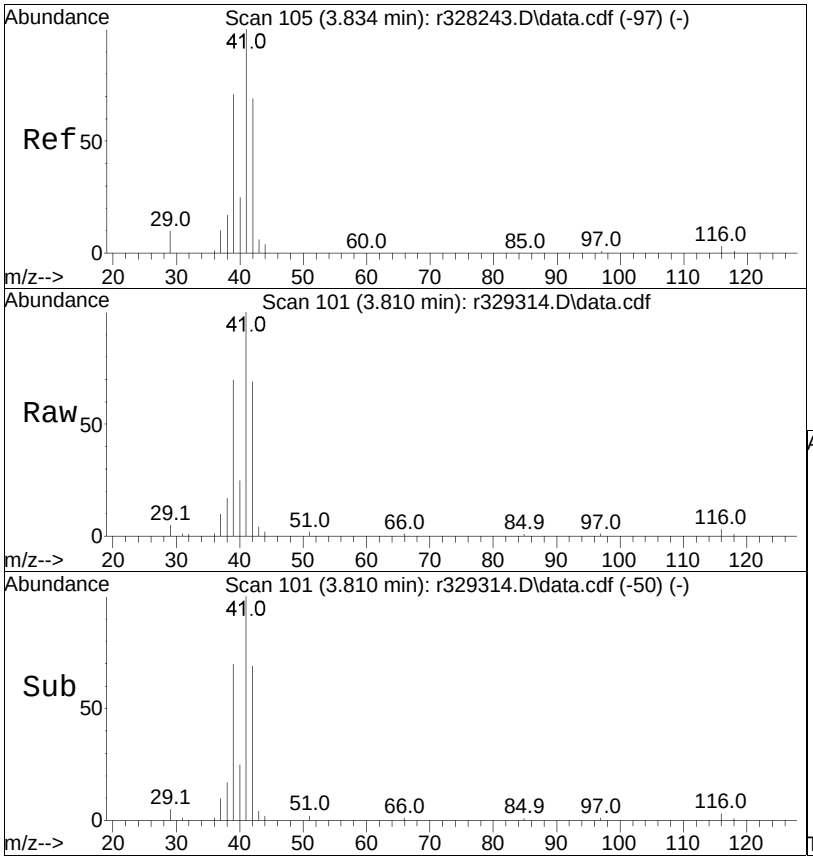
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Sub List : Default-LCS-AP2 - All compounds listed25T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329314.D
Acq On : 25 Feb 2024 1:51 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-3,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 14:21:44 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

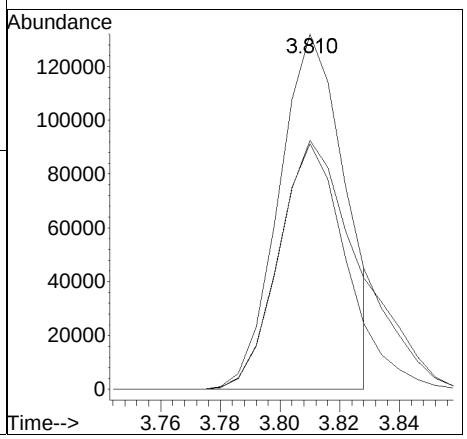


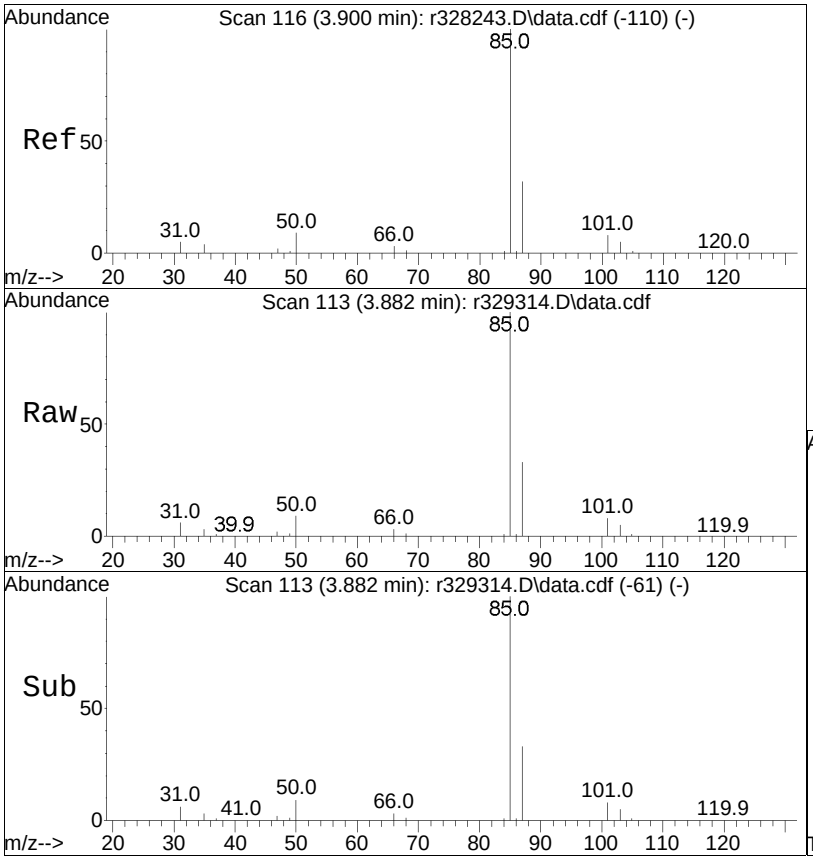


#3
propylene
Concen: 10.57 ppbV m
RT: 3.810 min Scan# 101
Delta R.T. -0.024 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 41 Resp: 203407

Ion	Ratio	Lower	Upper
41	100		
42	69.2	55.0	82.4
39	70.1	57.1	85.7

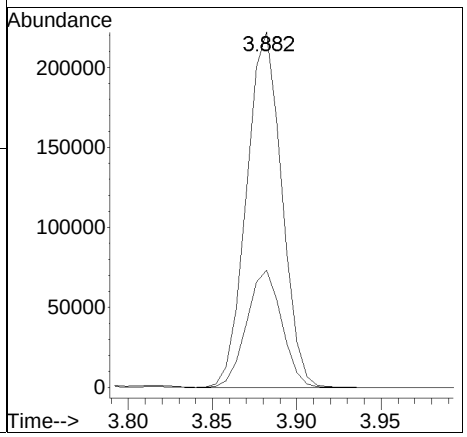


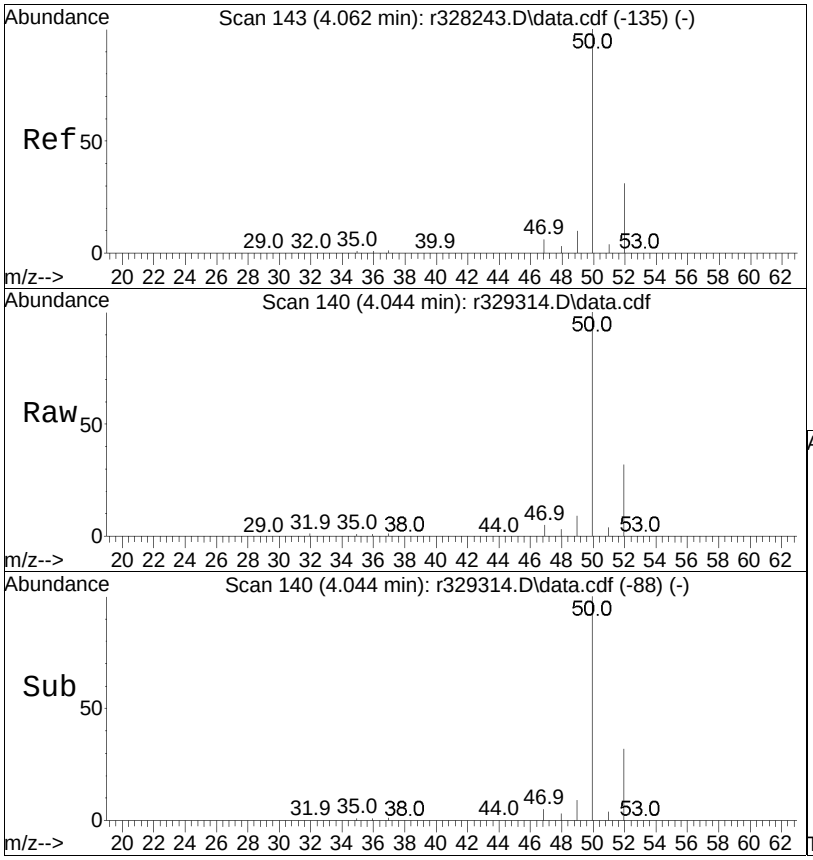


#5
dichlorodifluoromethane
Concen: 9.89 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 85 Resp: 322694

Ion	Ratio	Lower	Upper
85	100		
87	33.0	25.7	38.5

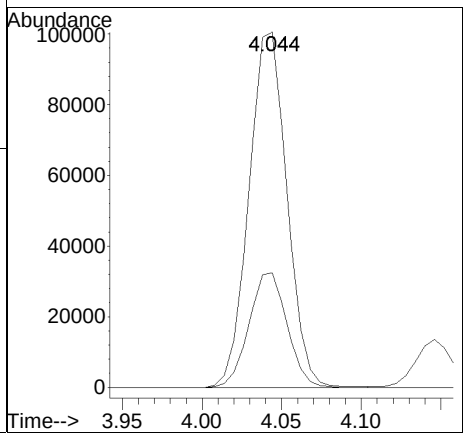


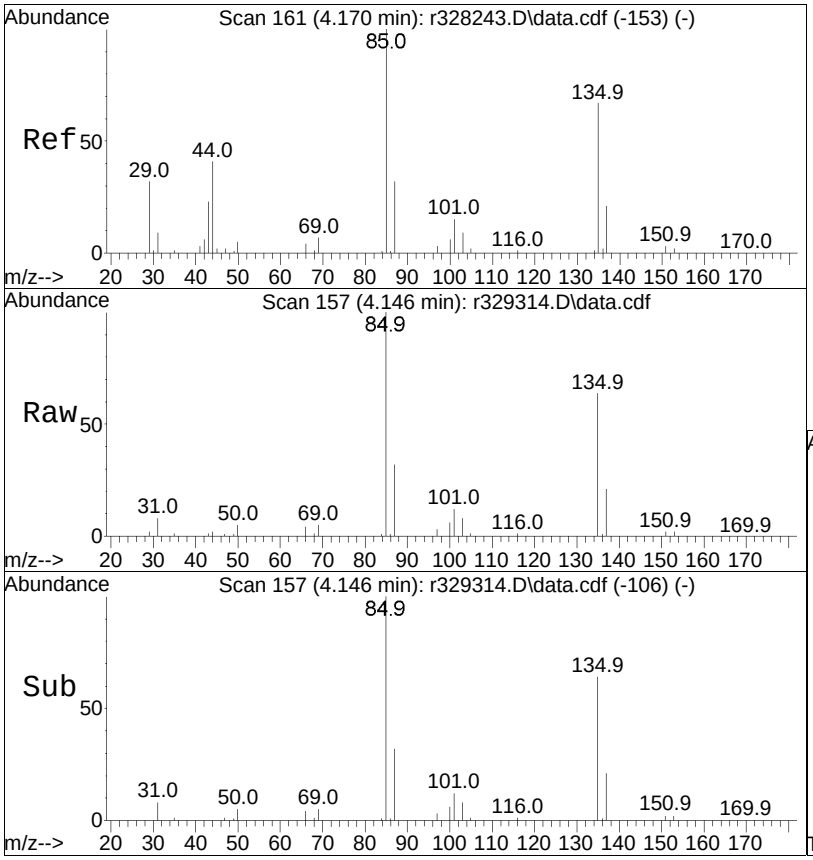


#6
chloromethane
Concen: 10.38 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 50 Resp: 166897

Ion	Ratio	Lower	Upper
50	100		
52	32.3	25.0	37.6

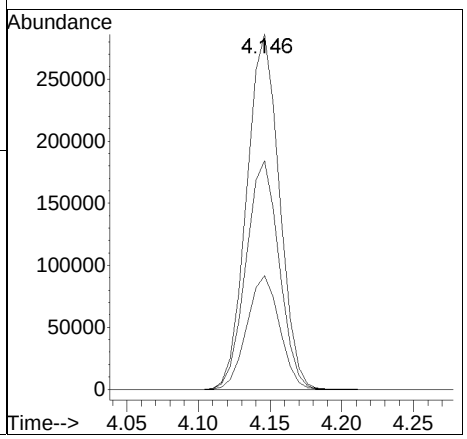


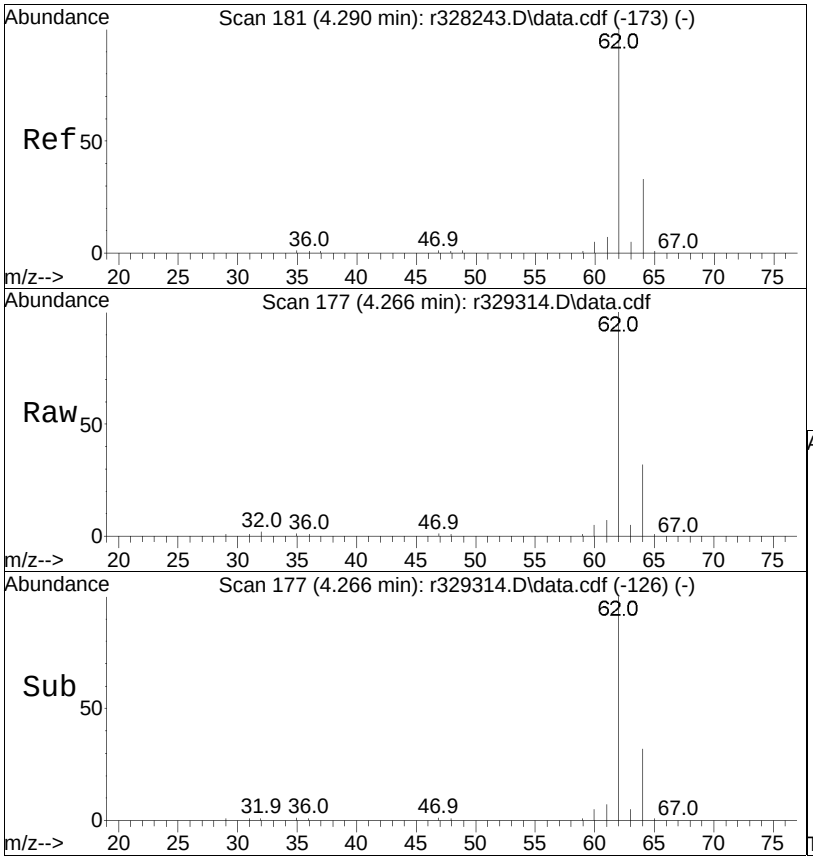


#7
Freon-114
Concen: 11.37 ppbV
RT: 4.146 min Scan# 157
Delta R.T. -0.024 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 85 Resp: 455049

Ion	Ratio	Lower	Upper
85	100		
87	32.0	25.4	38.2
135	64.4	53.5	80.3

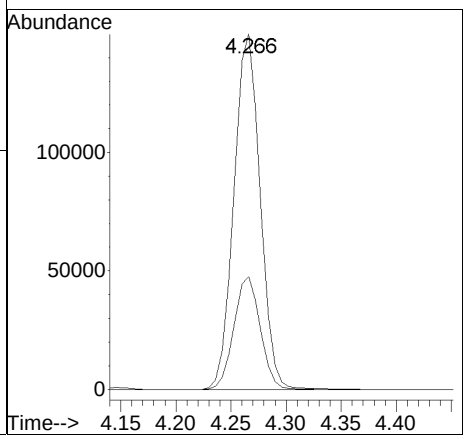


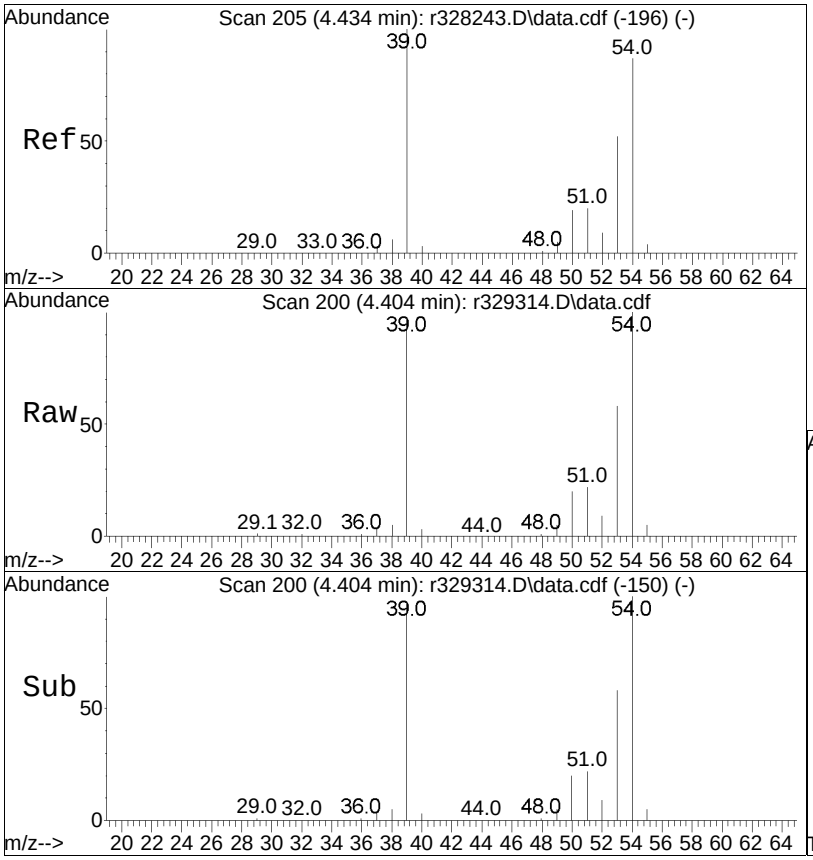


#9
vinyl chloride
Concen: 11.31 ppbV
RT: 4.266 min Scan# 177
Delta R.T. -0.024 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 62 Resp: 248053

Ion	Ratio	Lower	Upper
62	100		
64	31.8	26.2	39.2

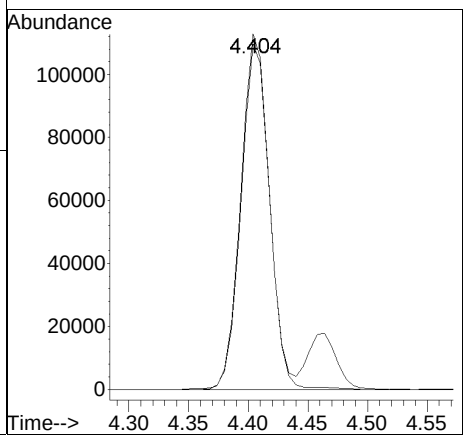


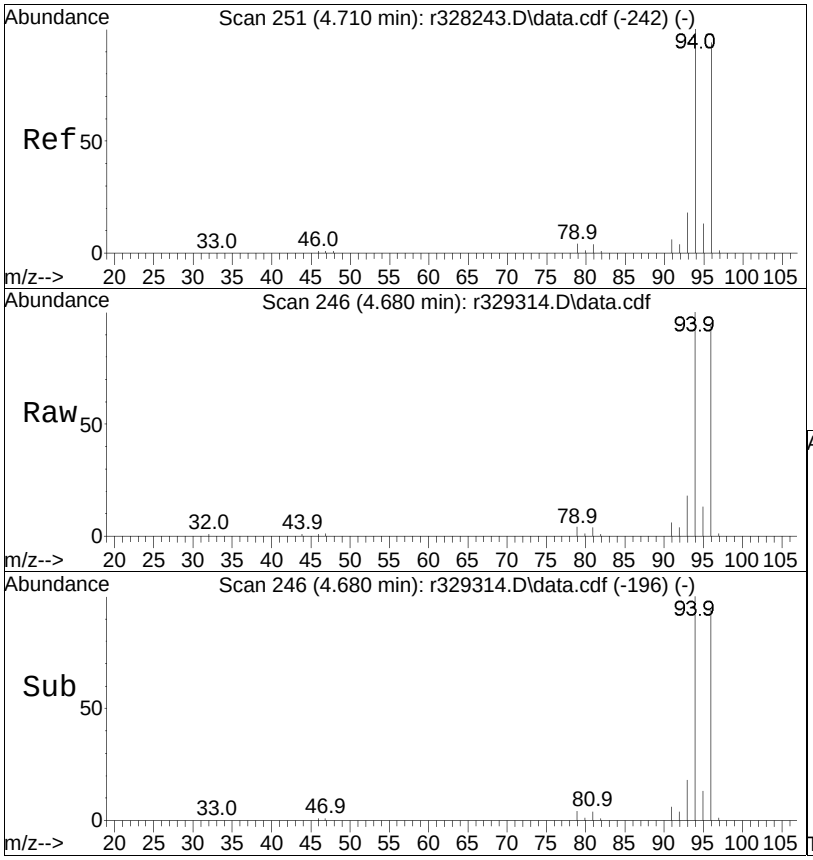


#10
1,3-butadiene
Concen: 12.24 ppbV
RT: 4.404 min Scan# 200
Delta R.T. -0.030 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 54 Resp: 187032

Ion	Ratio	Lower	Upper
54	100		
39	97.2	92.3	138.5

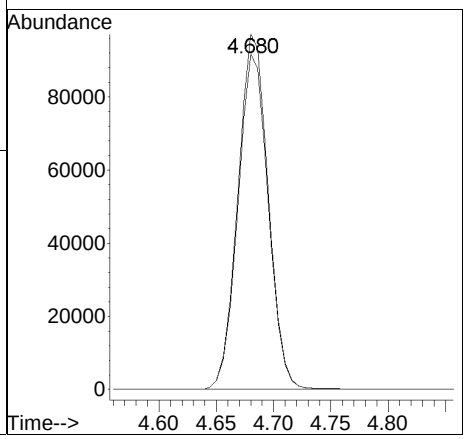


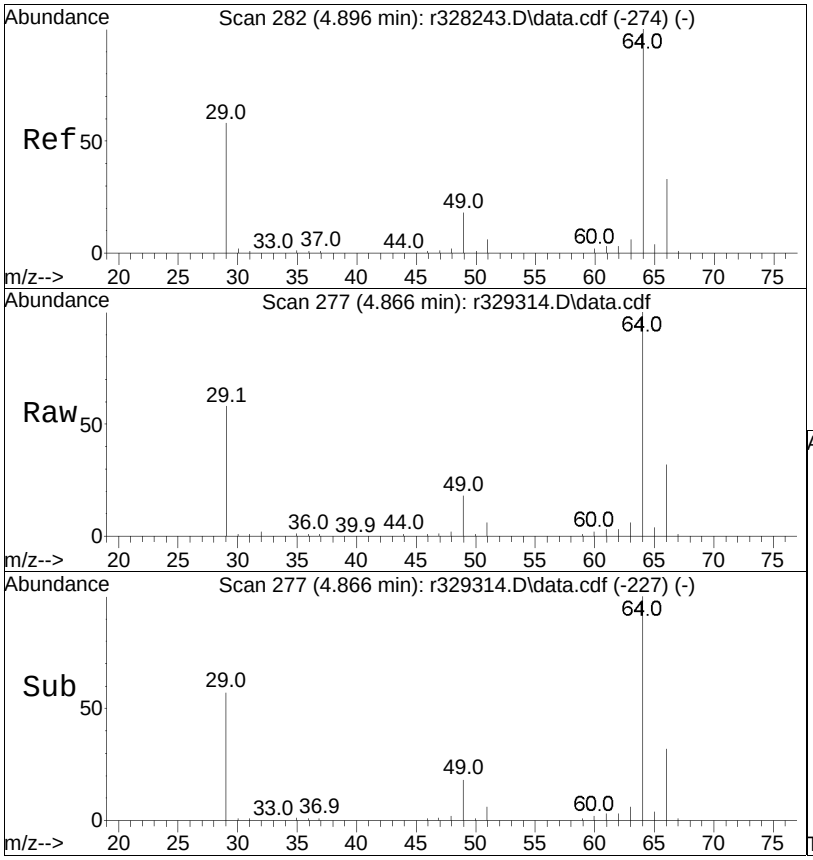


#13
bromomethane
Concen: 11.44 ppbV
RT: 4.680 min Scan# 246
Delta R.T. -0.030 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 94 Resp: 178741

Ion	Ratio	Lower	Upper
94	100		
96	94.3	75.4	113.2

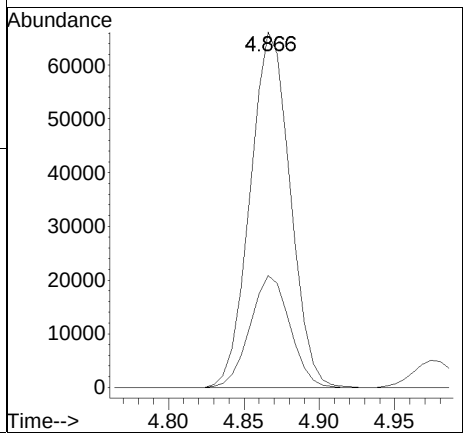


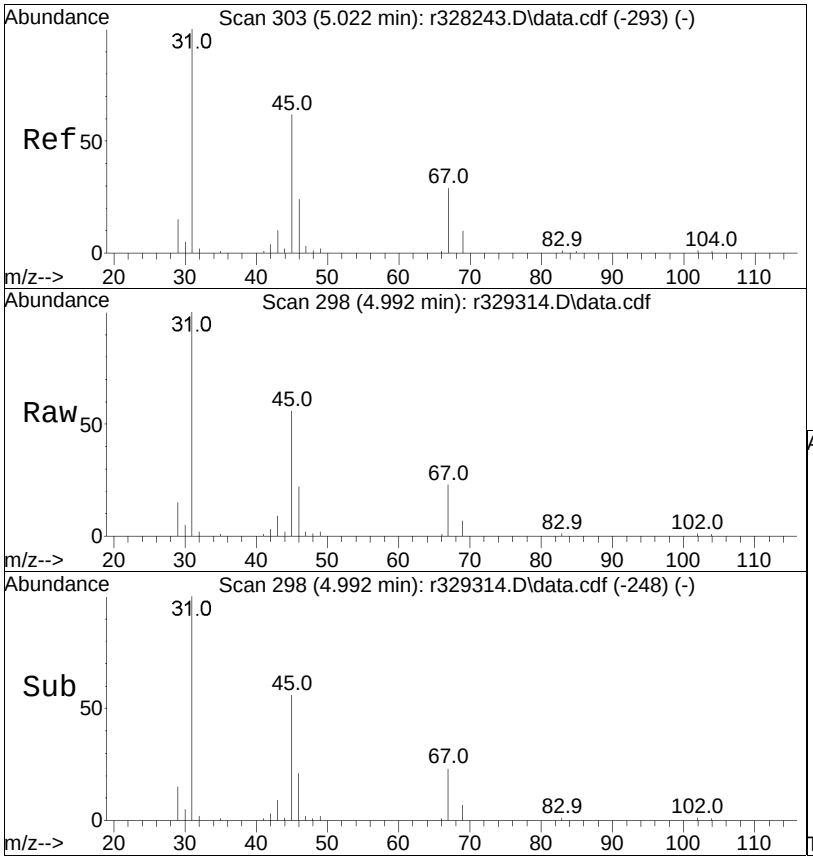


#14
chloroethane
Concen: 10.85 ppbV
RT: 4.866 min Scan# 277
Delta R.T. -0.030 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 64 Resp: 122107

Ion	Ratio	Lower	Upper
64	100		
66	31.5	26.1	39.1

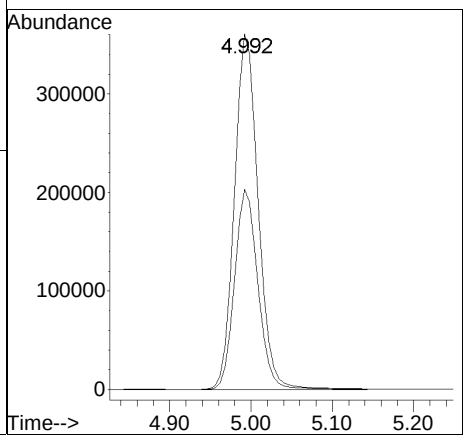


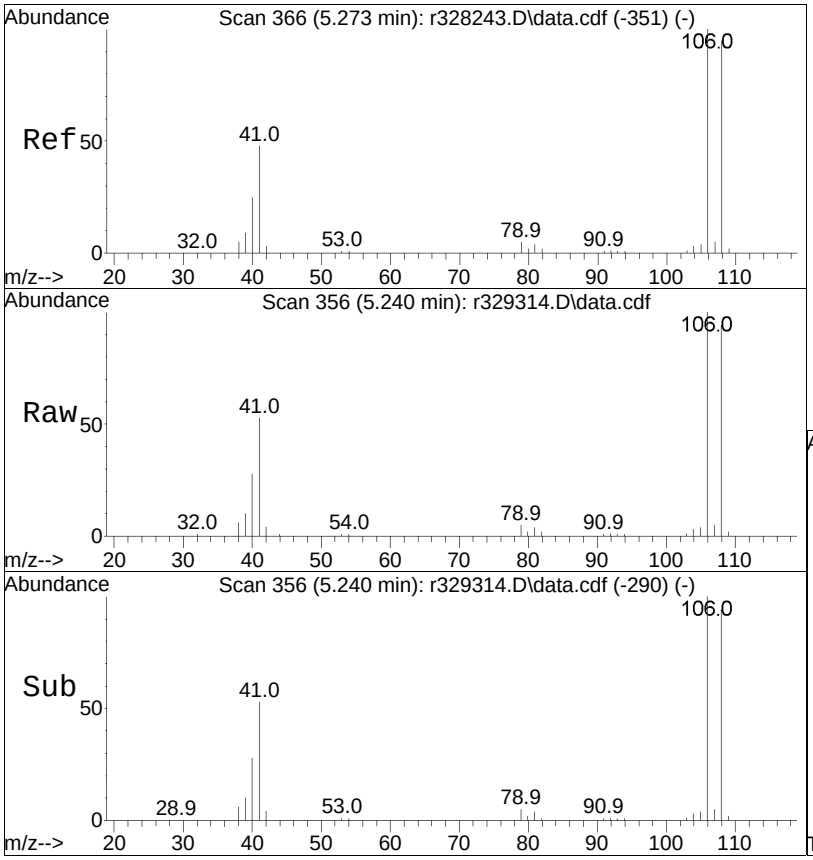


#15
ethanol
Concen: 59.17 ppbV
RT: 4.992 min Scan# 298
Delta R.T. -0.030 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 31 Resp: 660658

Ion	Ratio	Lower	Upper
31	100		
45	56.3	49.8	74.6

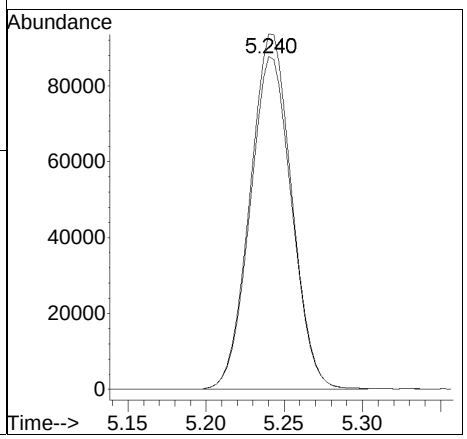


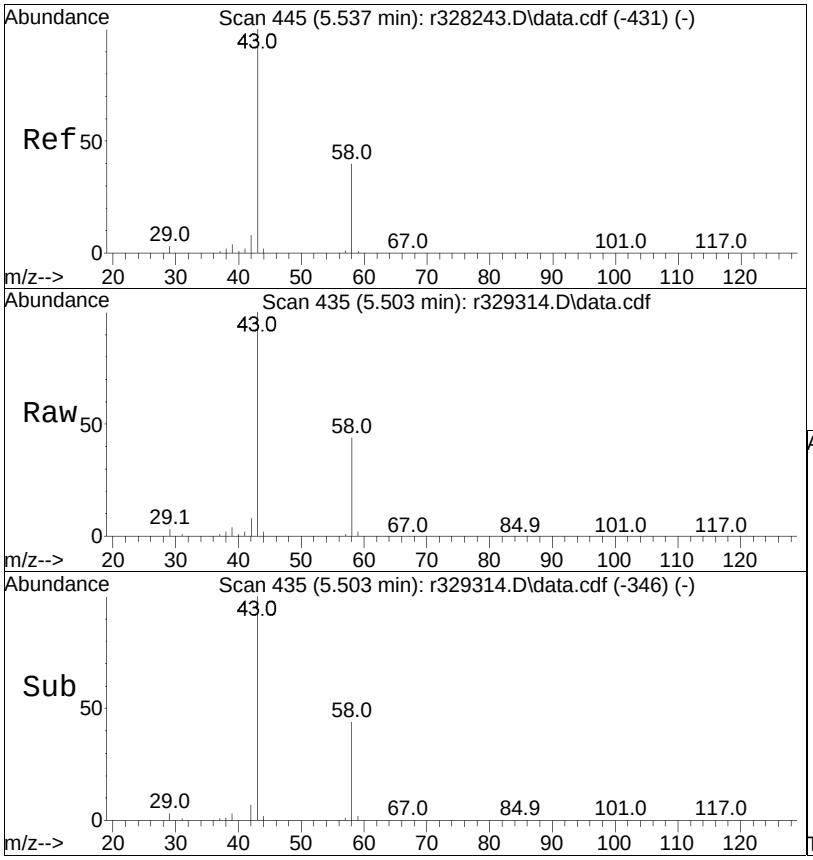


#17
vinyl bromide
Concen: 9.57 ppbV
RT: 5.240 min Scan# 356
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:106 Resp: 173869

Ion	Ratio	Lower	Upper
106	100		
108	93.8	75.7	113.5

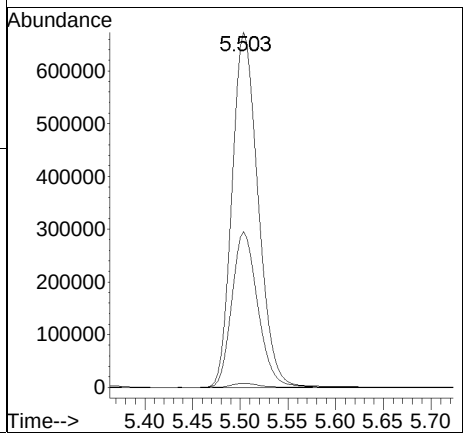


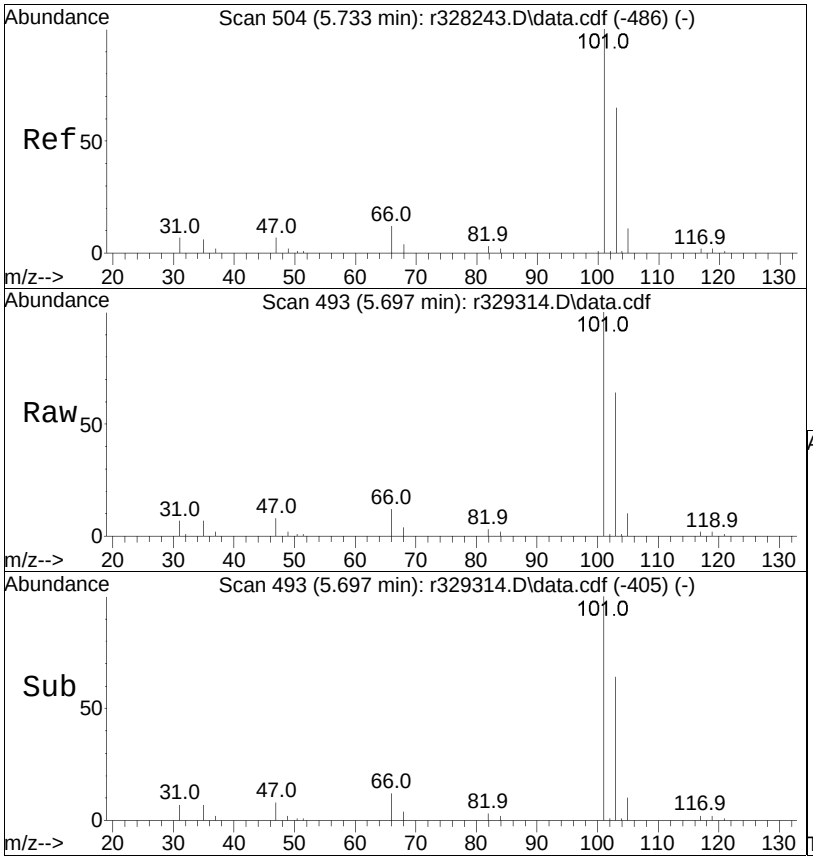


#19
acetone
Concen: 42.90 ppbV
RT: 5.503 min Scan# 435
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 1281330

Ion	Ratio	Lower	Upper
43	100		
58	43.8	31.9	47.9
57	1.2	0.9	1.3

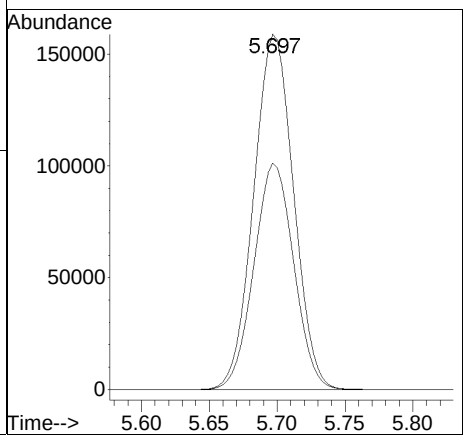


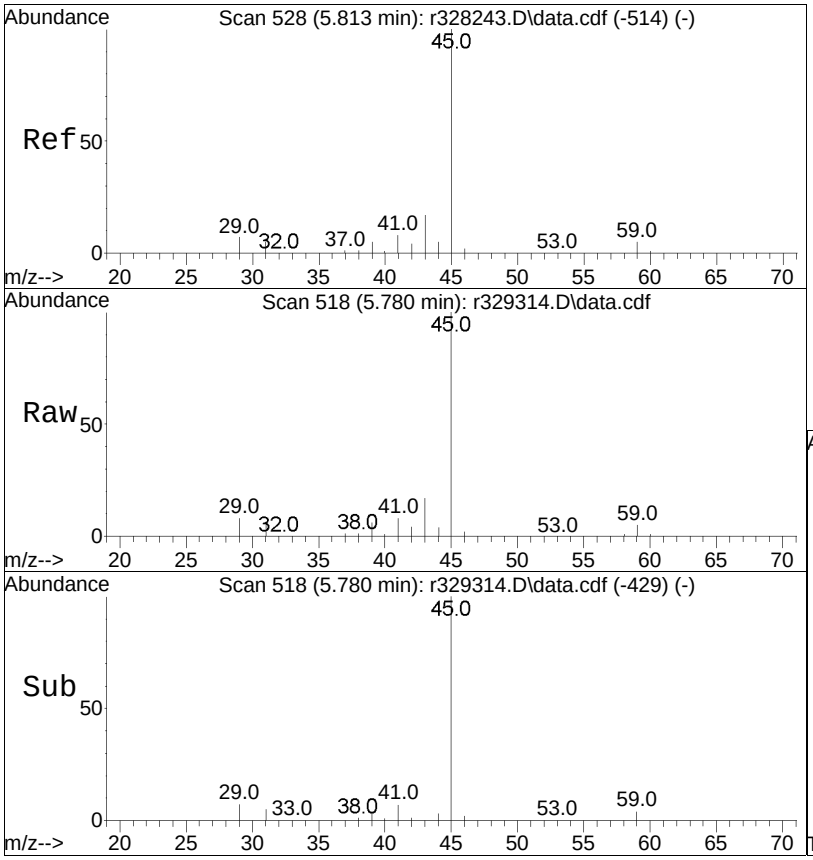


#21
trichlorofluoromethane
Concen: 9.57 ppbV
RT: 5.697 min Scan# 493
Delta R.T. -0.037 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:101 Resp: 324978

Ion	Ratio	Lower	Upper
101	100		
103	63.7	51.7	77.5

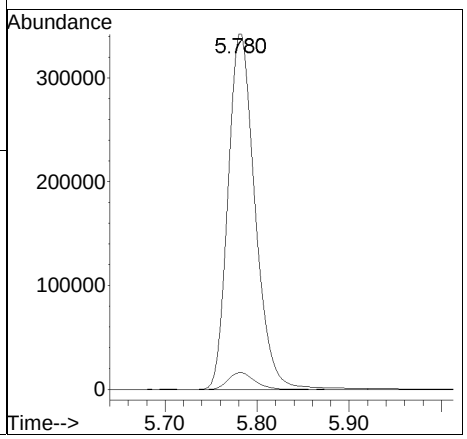


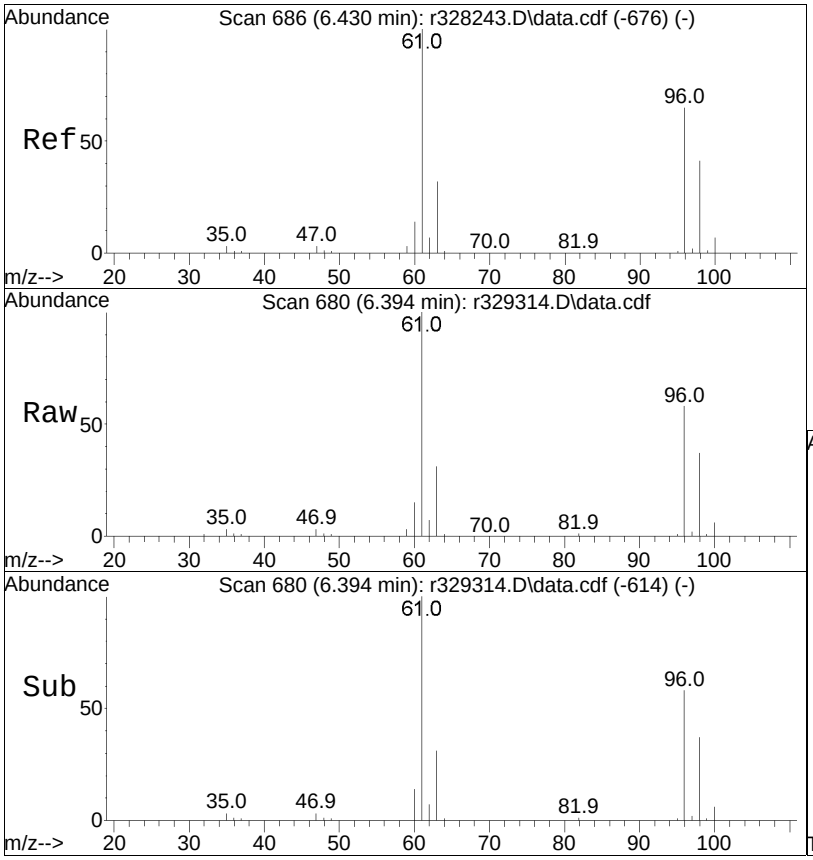


#22
isopropyl alcohol
Concen: 19.21 ppbV
RT: 5.780 min Scan# 518
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 45 Resp: 699769

Ion	Ratio	Lower	Upper
45	100		
59	4.7	3.7	5.5

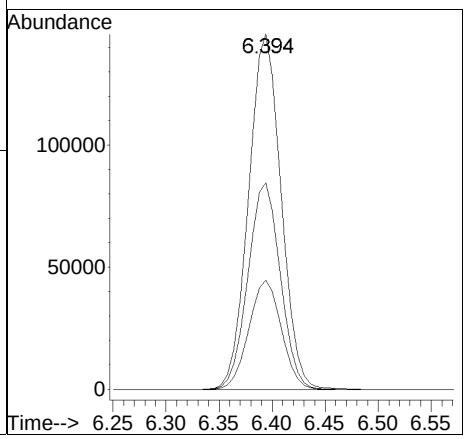


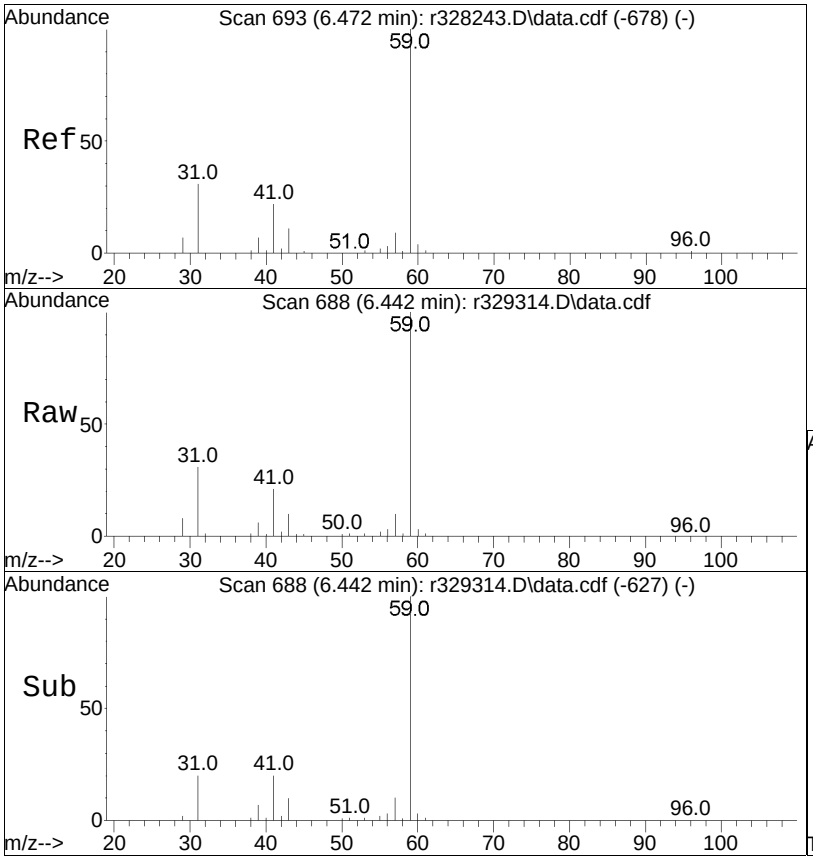


#26
1,1-dichloroethene
Concen: 9.44 ppbV
RT: 6.394 min Scan# 680
Delta R.T. -0.036 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 61 Resp: 309399

Ion	Ratio	Lower	Upper
61	100		
96	58.1	52.2	78.2
63	30.7	25.6	38.4

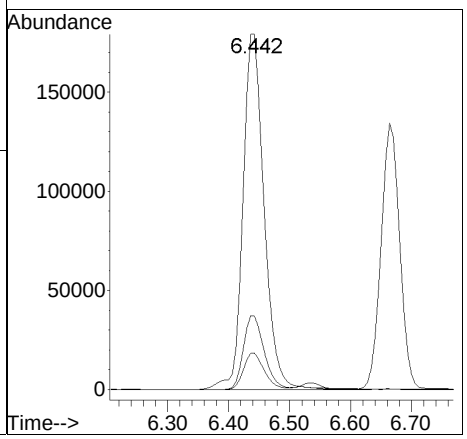


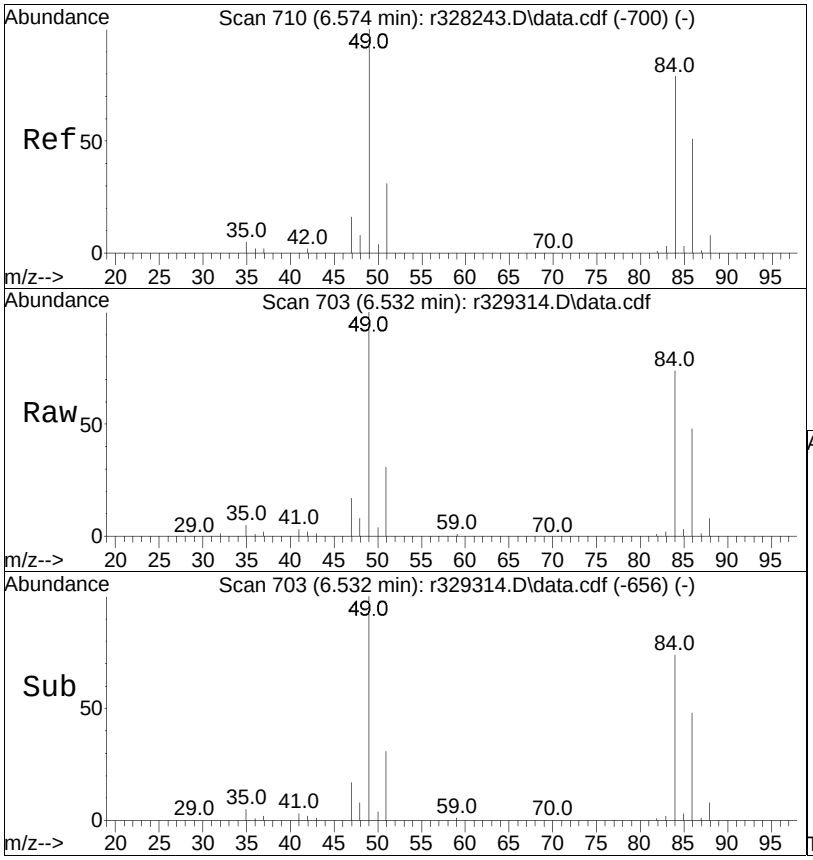


#27
tertiary butyl alcohol
Concen: 9.96 ppbV
RT: 6.442 min Scan# 688
Delta R.T. -0.030 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 59 Resp: 433208

Ion	Ratio	Lower	Upper
59	100		
41	20.7	17.5	26.3
43	10.2	8.4	12.6

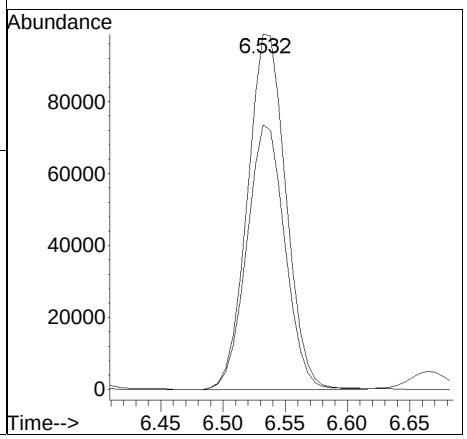


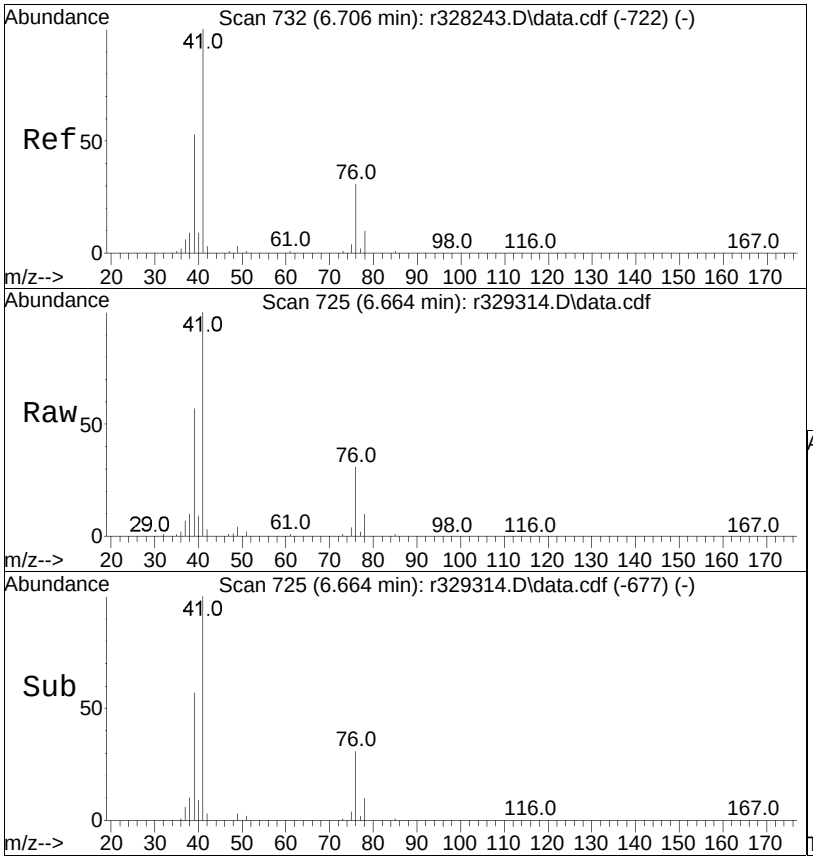


#28
methylene chloride
Concen: 9.73 ppbV
RT: 6.532 min Scan# 703
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 49 Resp: 212314

Ion	Ratio	Lower	Upper
49	100		
84	74.5	63.3	94.9

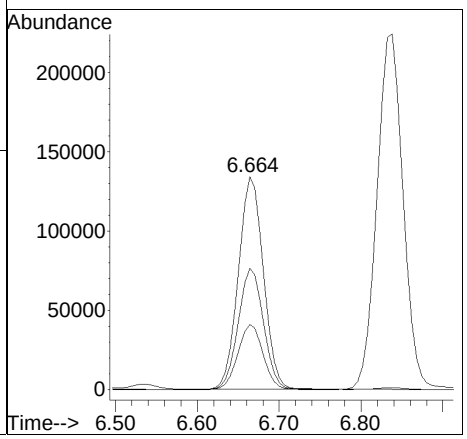


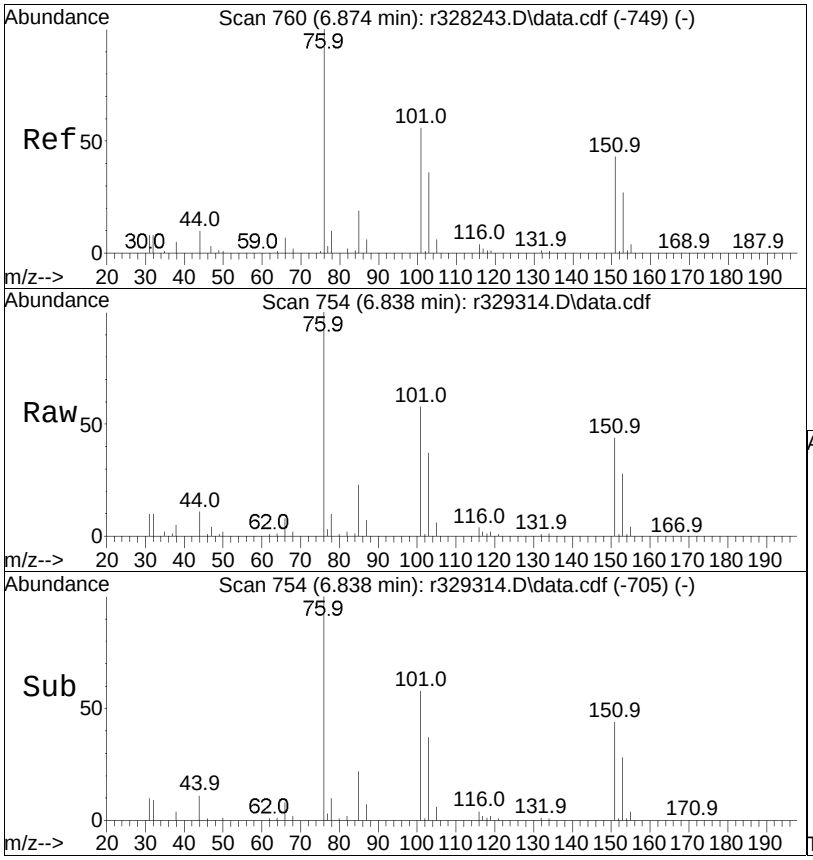


#29
3-chloropropene
Concen: 8.76 ppbV
RT: 6.664 min Scan# 725
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 41 Resp: 285470

Ion	Ratio	Lower	Upper
41	100		
39	57.0	42.2	63.2
76	30.6	24.6	36.8

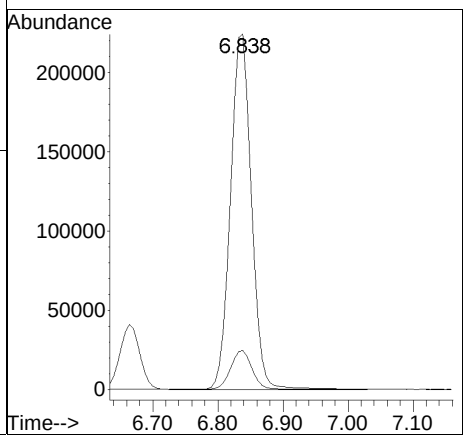


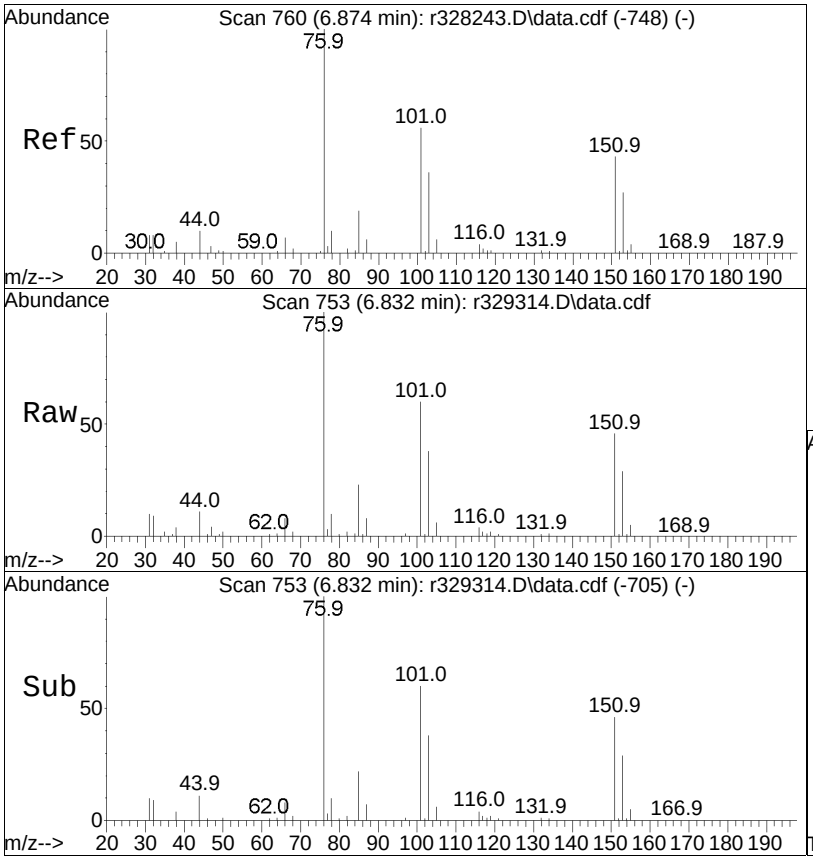


#30
carbon disulfide
Concen: 8.31 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 76 Resp: 501747

Ion	Ratio	Lower	Upper
76	100		
44	11.0	7.7	11.5

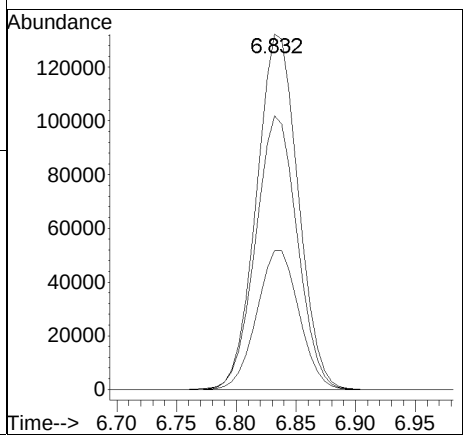


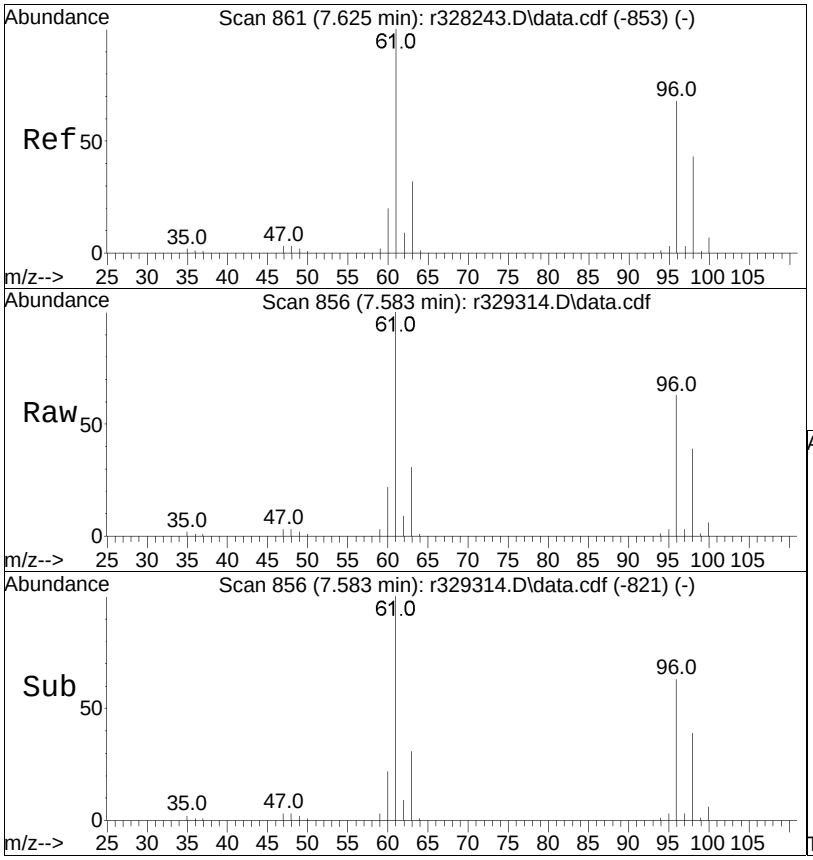


#31
Freon 113
Concen: 8.44 ppbV
RT: 6.832 min Scan# 753
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:101 Resp: 321440

Ion	Ratio	Lower	Upper
101	100		
85	39.1	27.9	41.9
151	77.0	61.0	91.4

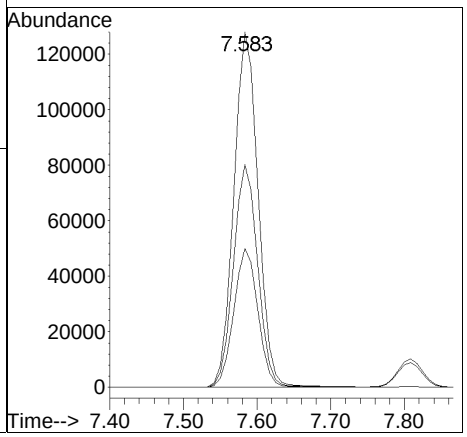


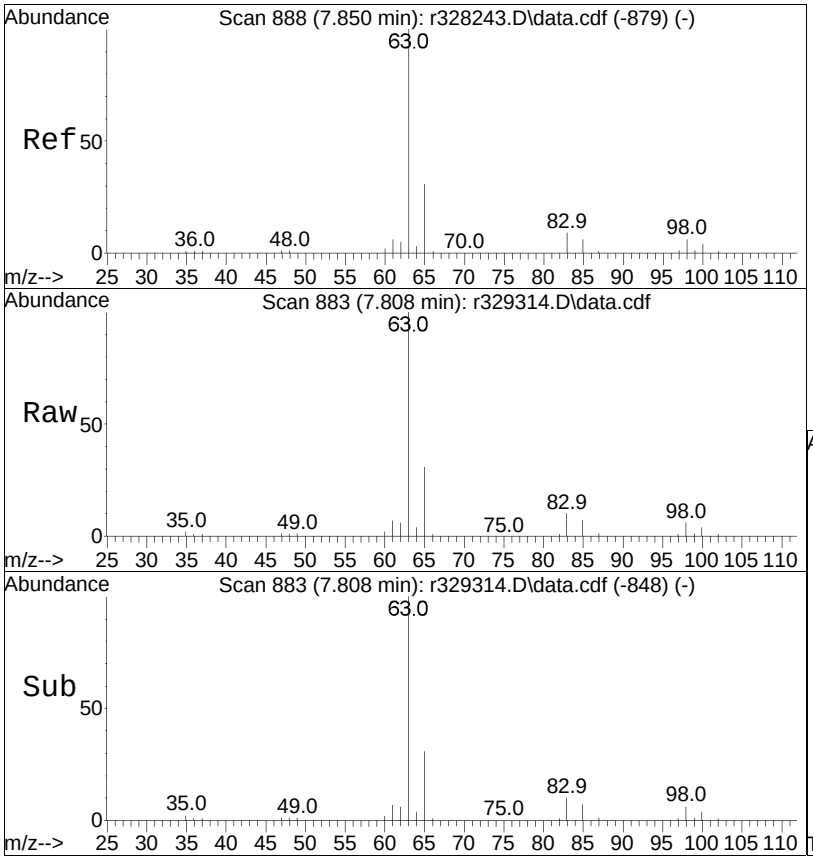


#32
trans-1,2-dichloroethene
Concen: 8.73 ppbV
RT: 7.583 min Scan# 856
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 61 Resp: 293801

Ion	Ratio	Lower	Upper
61	100		
96	62.7	54.2	81.2
98	39.1	34.6	51.8

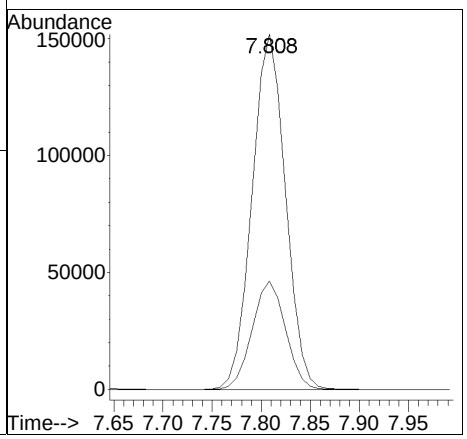


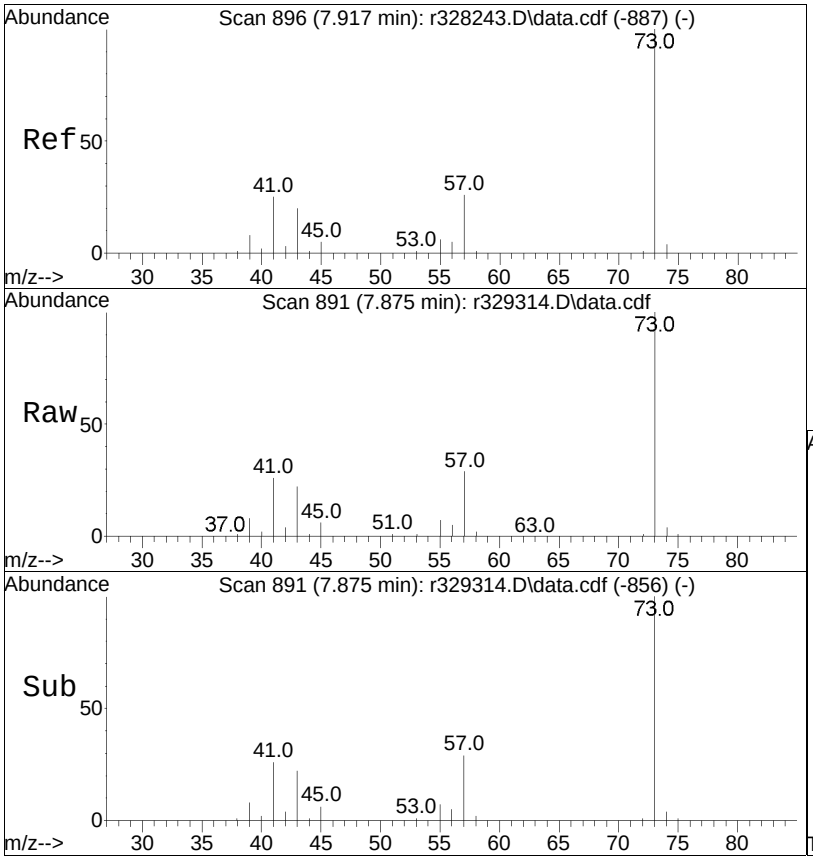


#33
1,1-dichloroethane
Concen: 8.30 ppbV
RT: 7.808 min Scan# 883
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 63 Resp: 358528

Ion	Ratio	Lower	Upper
63	100		
65	30.5	24.7	37.1

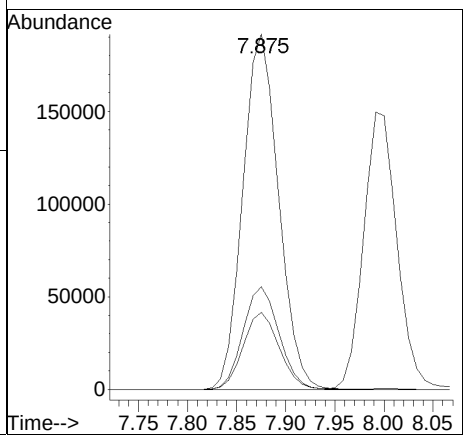


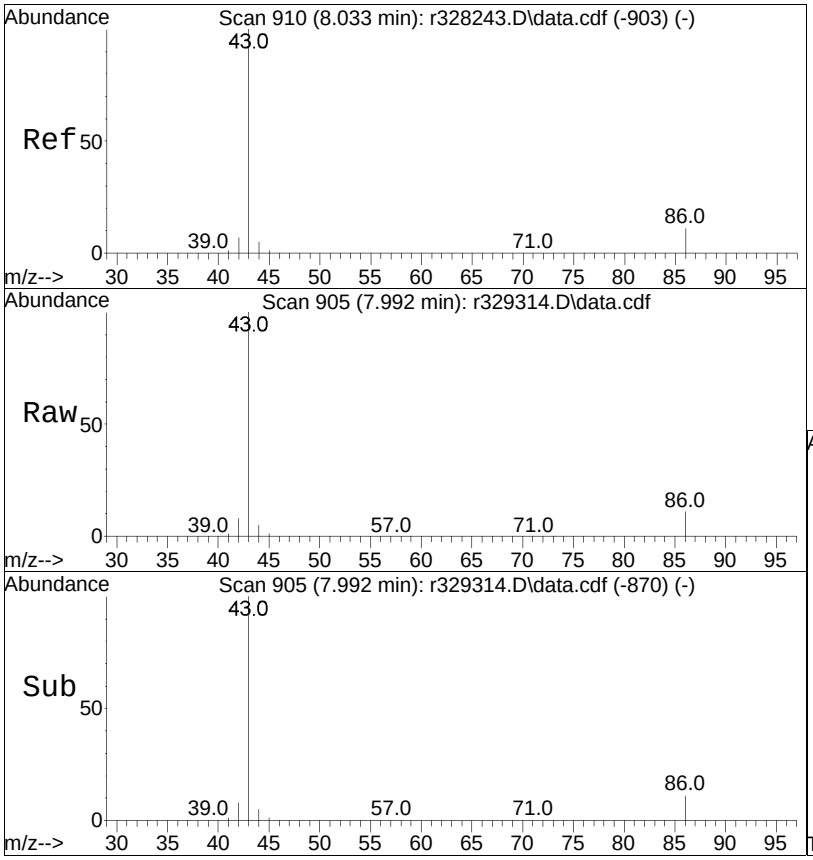


#34
MTBE
Concen: 8.70 ppbV
RT: 7.875 min Scan# 891
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 73 Resp: 484235

Ion	Ratio	Lower	Upper
73	100		
57	28.9	21.1	31.7
43	21.7	15.8	23.8

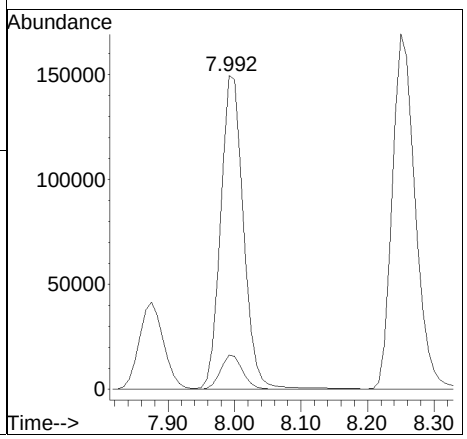


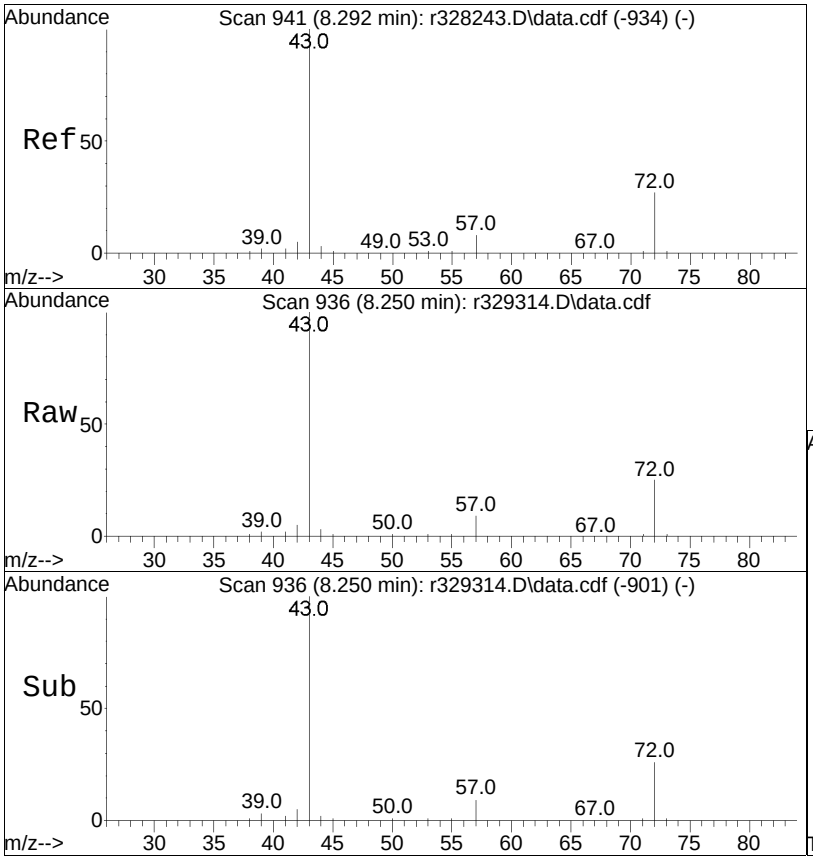


#35
vinyl acetate
Concen: 7.59 ppbV
RT: 7.992 min Scan# 905
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 355041

Ion	Ratio	Lower	Upper
43	100		
86	10.9	8.4	12.6

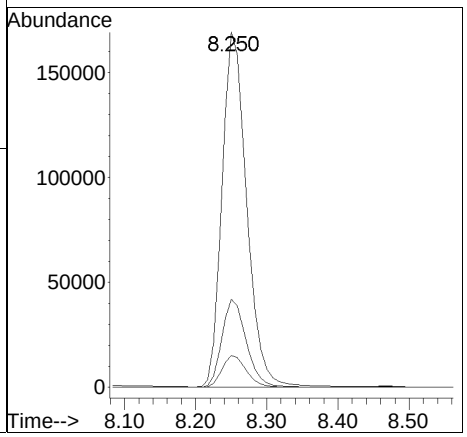


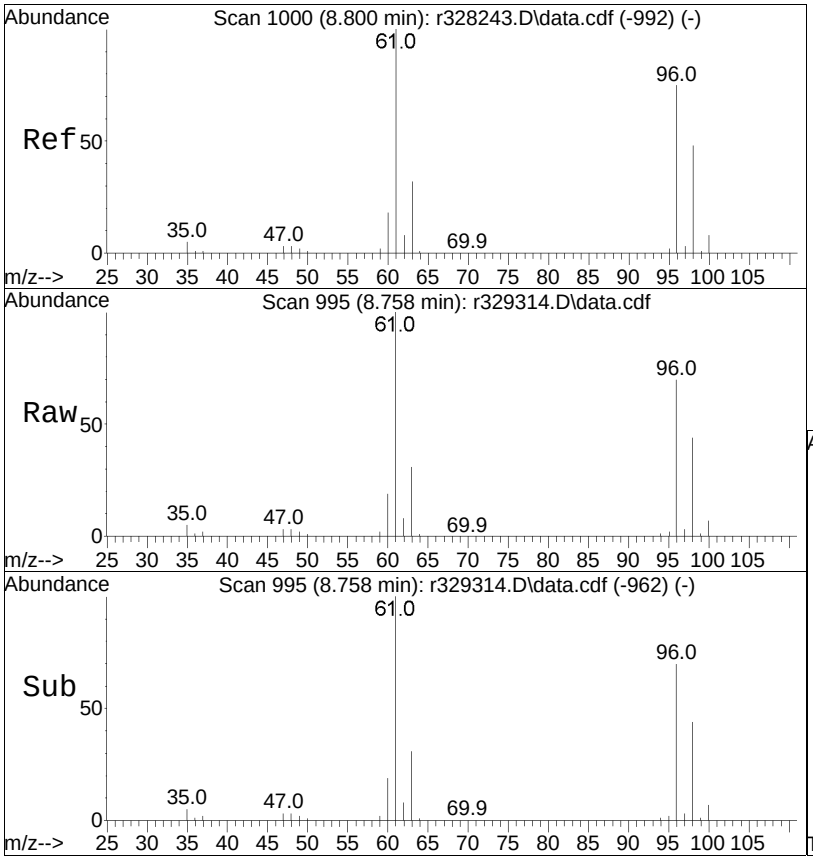


#36
2-butanone
Concen: 8.44 ppbV
RT: 8.250 min Scan# 936
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 406770

Ion	Ratio	Lower	Upper
43	100		
72	24.8	21.9	32.9
57	9.0	6.6	9.8

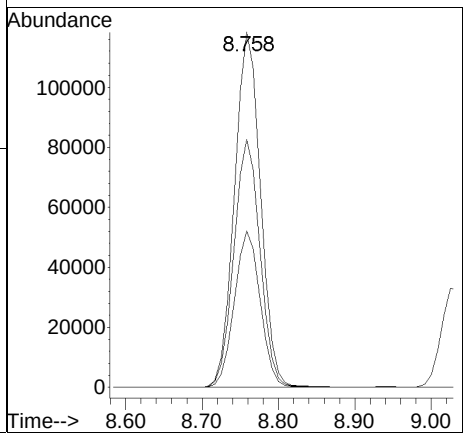


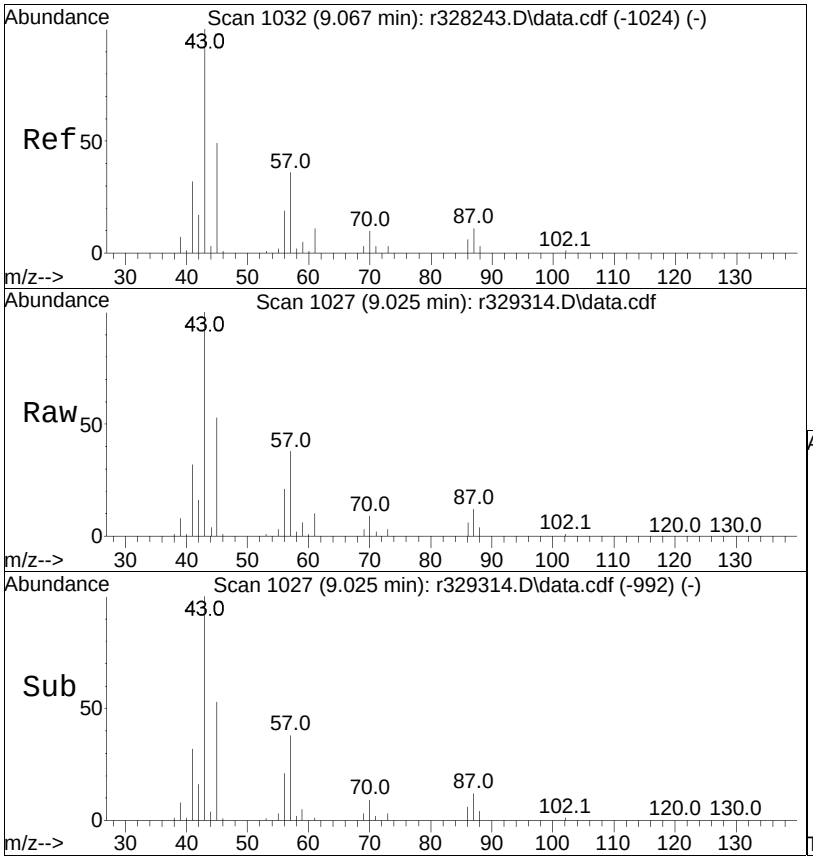


#37
cis-1,2-dichloroethene
Concen: 8.93 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 61 Resp: 280982

Ion	Ratio	Lower	Upper
61	100		
96	69.8	60.2	90.4
98	44.0	38.5	57.7

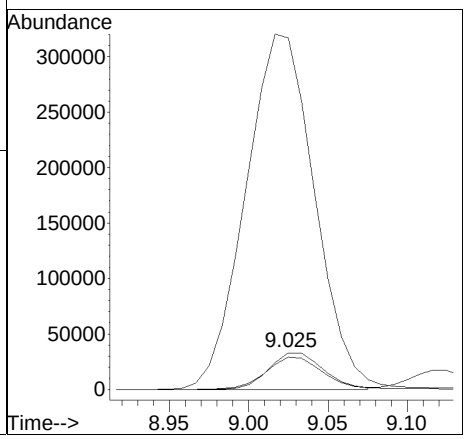


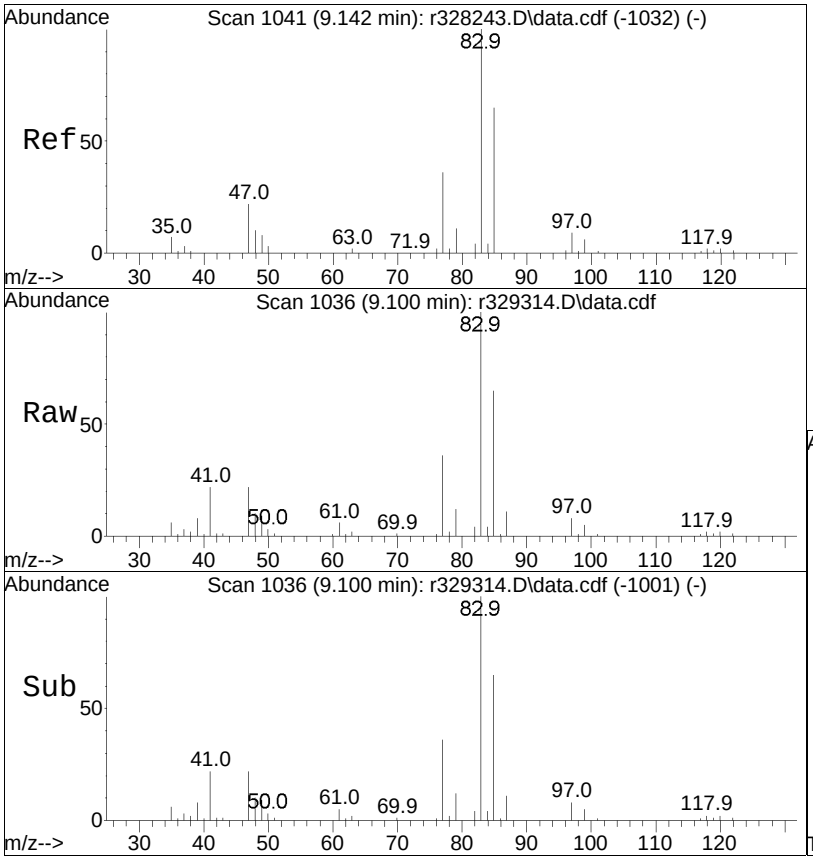


#38
Ethyl Acetate
Concen: 9.50 ppbV
RT: 9.025 min Scan# 1027
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 61 Resp: 79527

Ion	Ratio	Lower	Upper
61	100		
70	88.4	77.5	116.3
43	959.5	765.5	1148.3

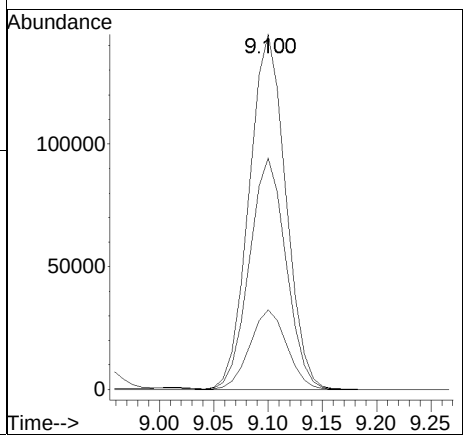


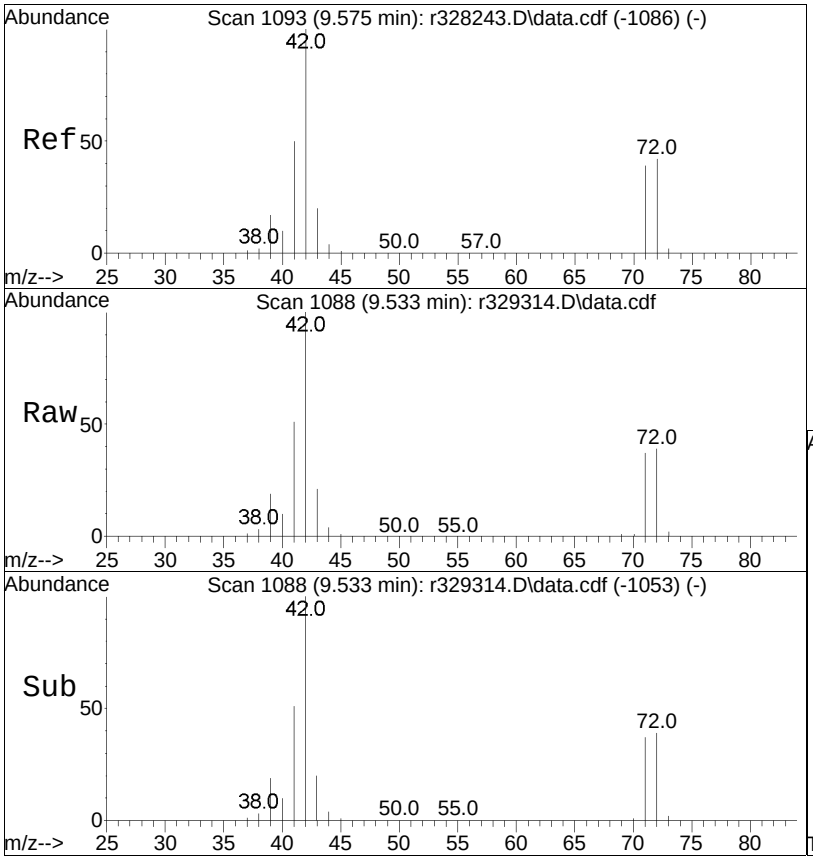


#39
chloroform
Concen: 10.00 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 83 Resp: 340158

Ion	Ratio	Lower	Upper
83	100		
85	65.1	52.2	78.4
47	22.4	17.4	26.2

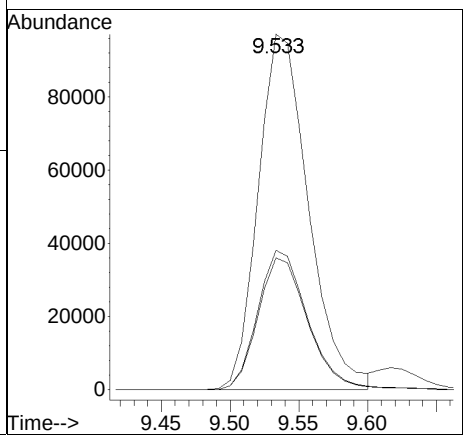


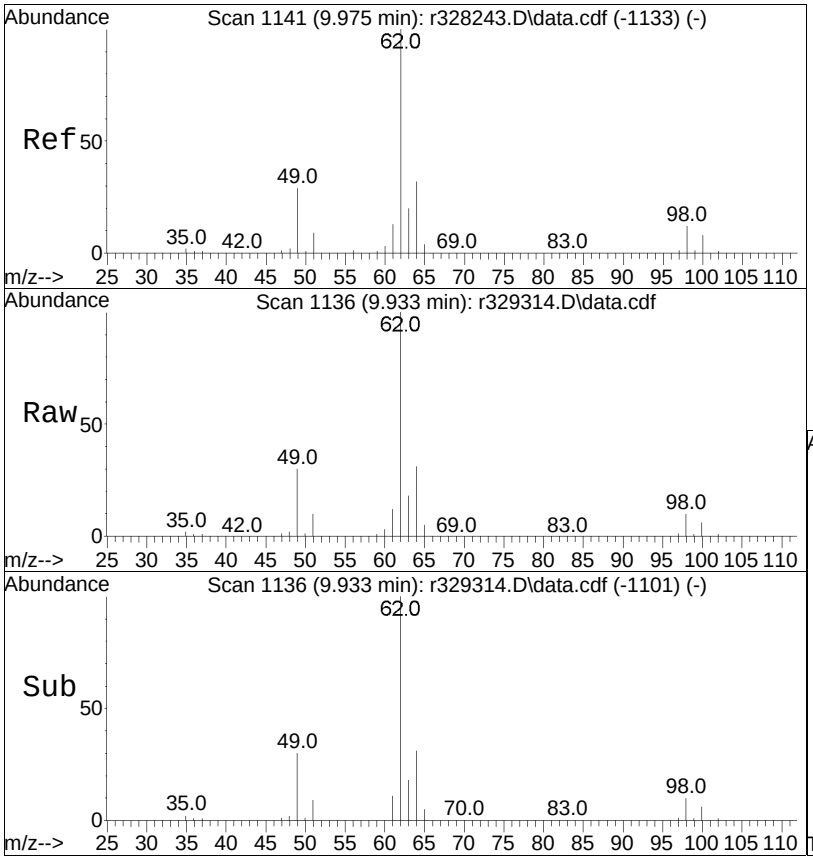


#40
Tetrahydrofuran
Concen: 8.25 ppbV
RT: 9.533 min Scan# 1088
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 42 Resp: 246567

Ion	Ratio	Lower	Upper
42	100		
71	37.0	31.4	47.0
72	39.2	33.4	50.2

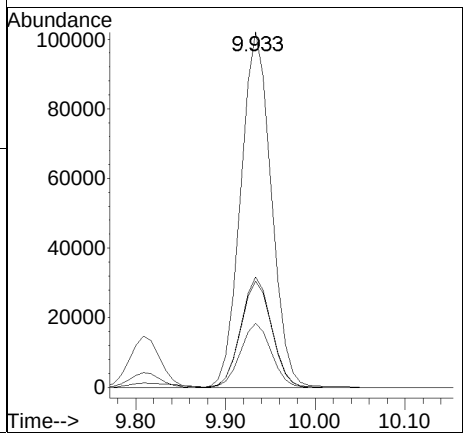


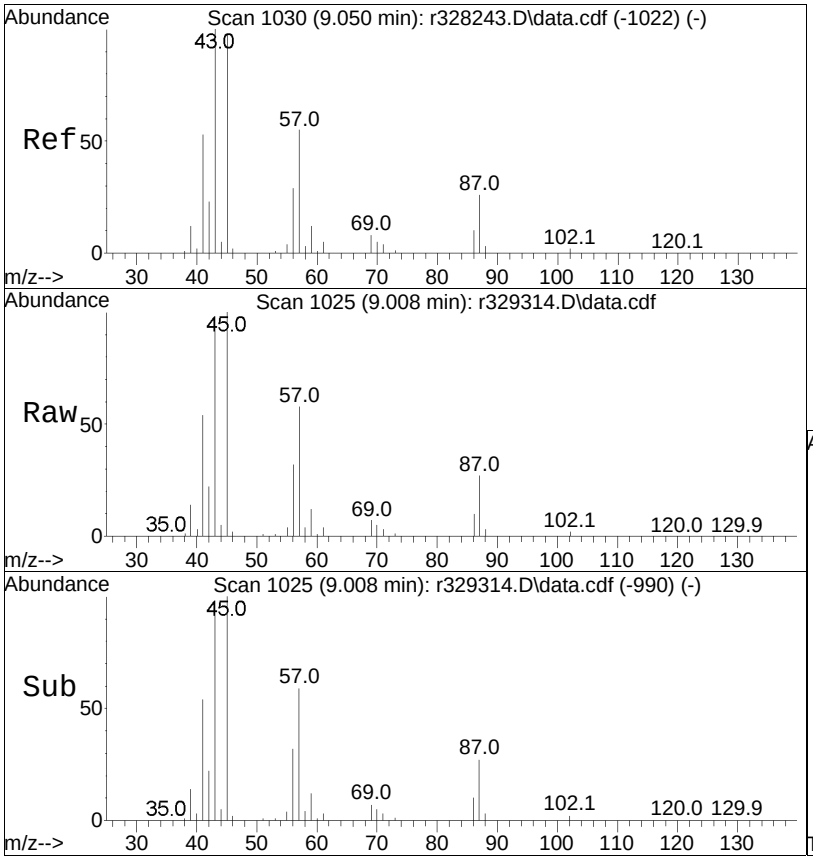


#42
1,2-dichloroethane
Concen: 9.58 ppbV
RT: 9.933 min Scan# 1136
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 62 Resp: 241830

Ion	Ratio	Lower	Upper
62	100		
64	31.1	25.6	38.4
49	29.9	23.2	34.8
63	18.0	16.3	24.5

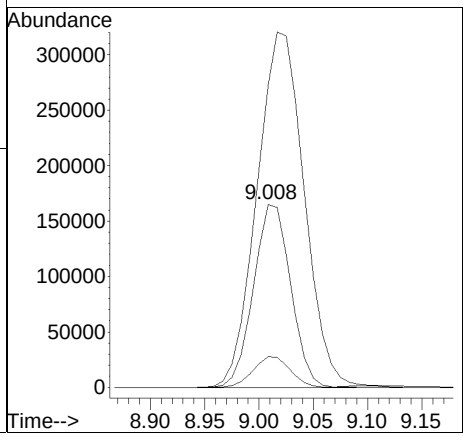


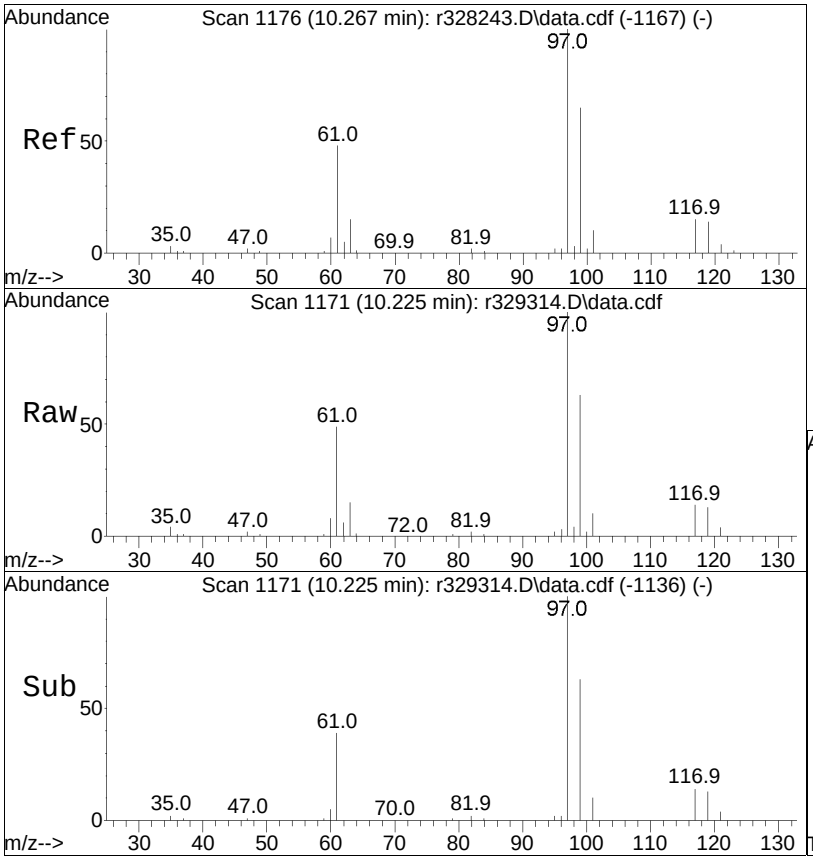


#44
hexane
Concen: 11.39 ppbV
RT: 9.008 min Scan# 1025
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 57 Resp: 393378

Ion	Ratio	Lower	Upper
57	100		
43	165.4	145.3	217.9
86	16.8	14.3	21.5

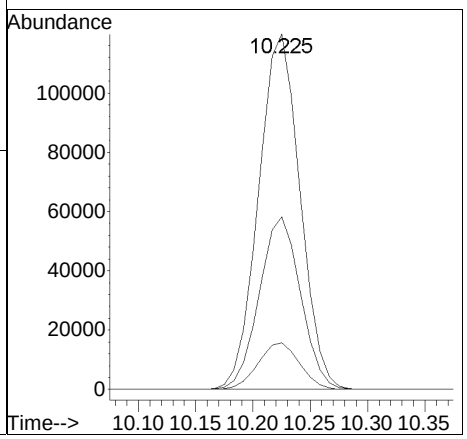


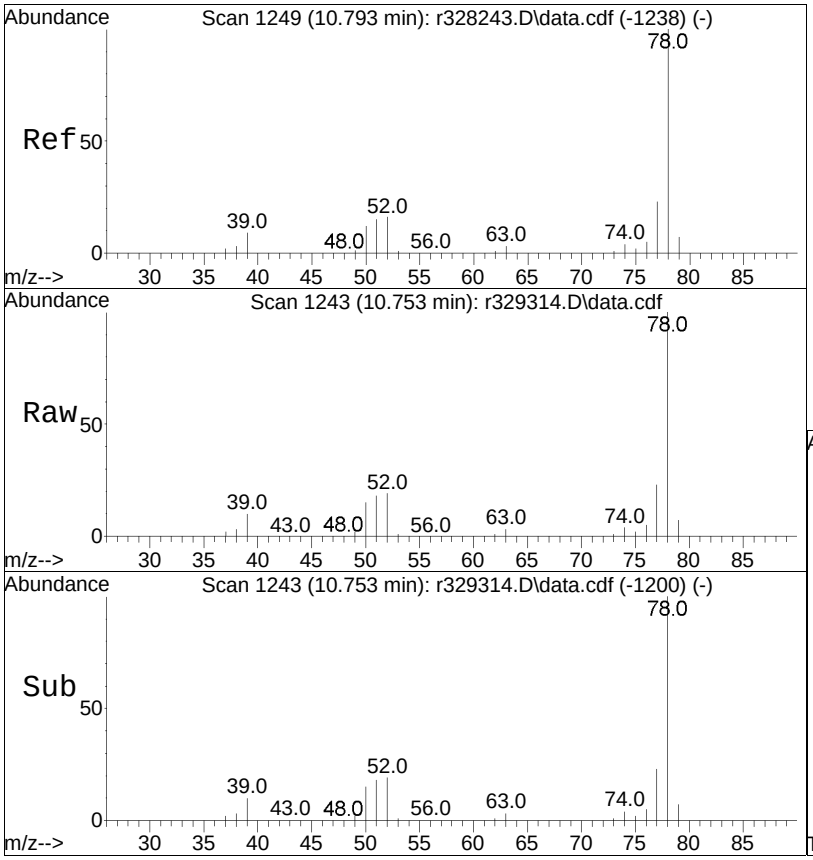


#48
1,1,1-trichloroethane
Concen: 11.14 ppbV
RT: 10.225 min Scan# 1171
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 97 Resp: 301694

Ion	Ratio	Lower	Upper
97	100		
61	48.6	38.2	57.4
119	13.1	11.0	16.6

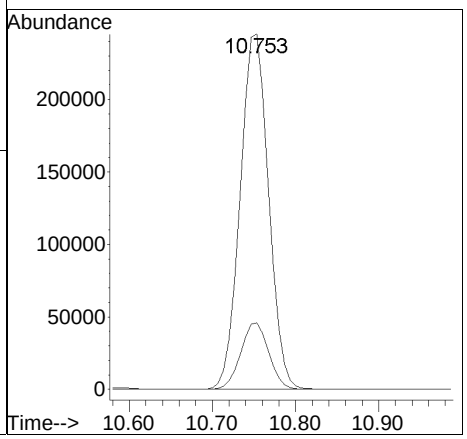


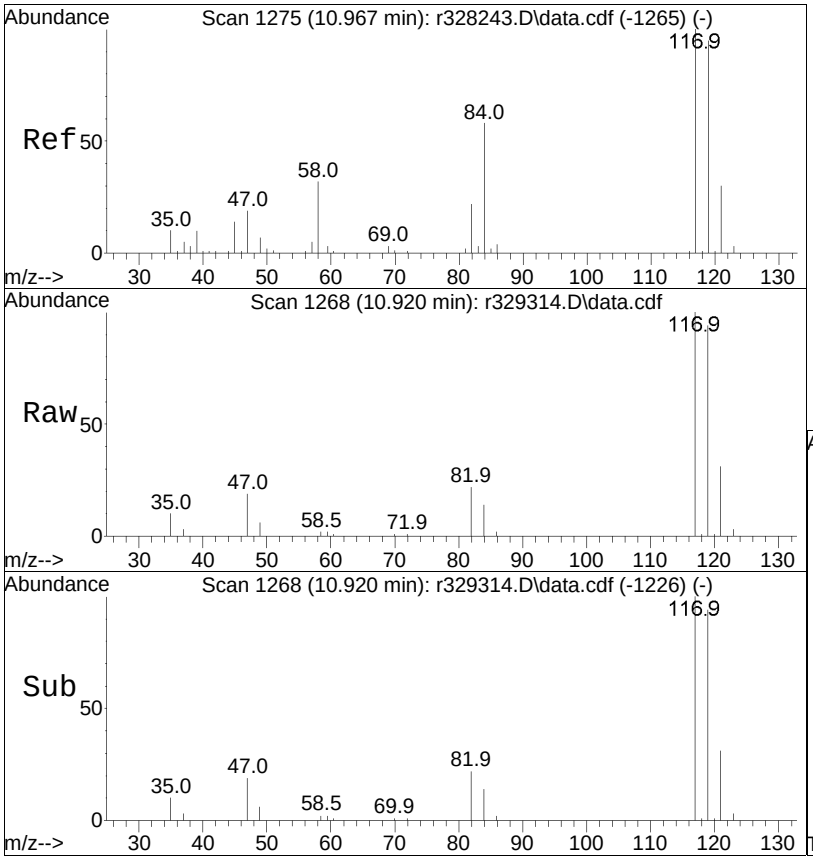


#50
benzene
Concen: 9.24 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 78 Resp: 583496

Ion	Ratio	Lower	Upper
78	100		
52	18.8	12.4	18.6#

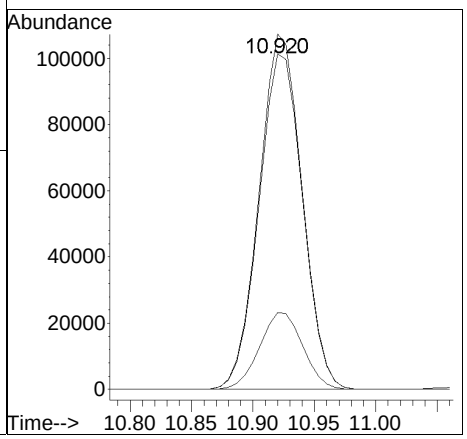


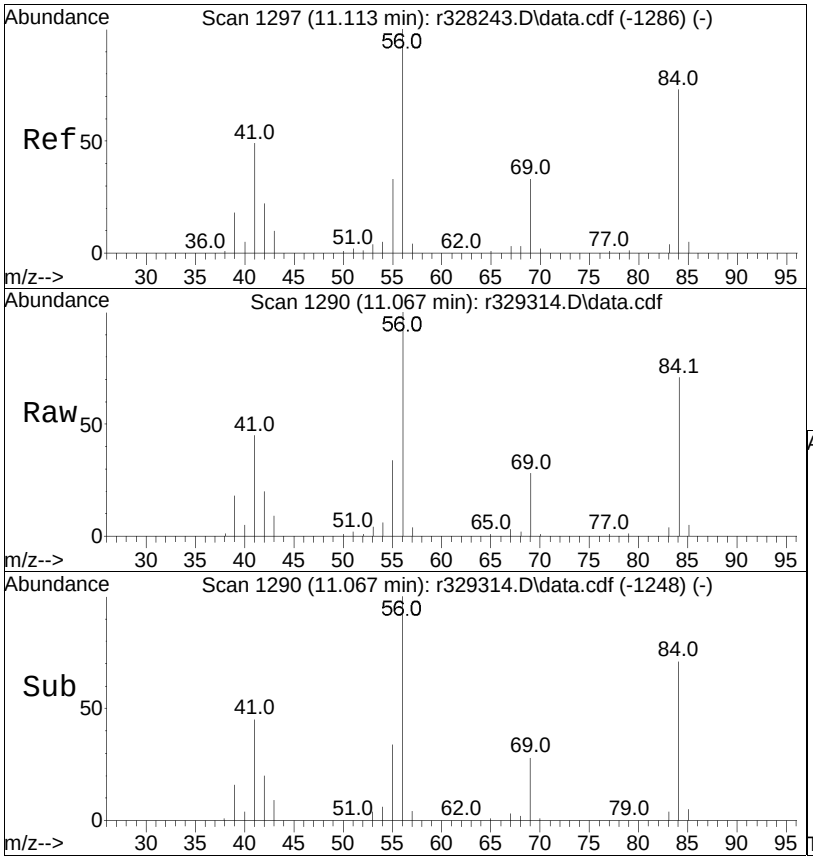


#52
carbon tetrachloride
Concen: 12.10 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:117 Resp: 261612

Ion	Ratio	Lower	Upper
117	100		
119	94.4	75.8	113.8
82	21.6	17.9	26.9

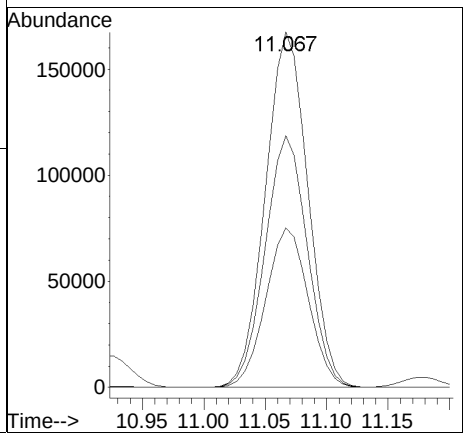


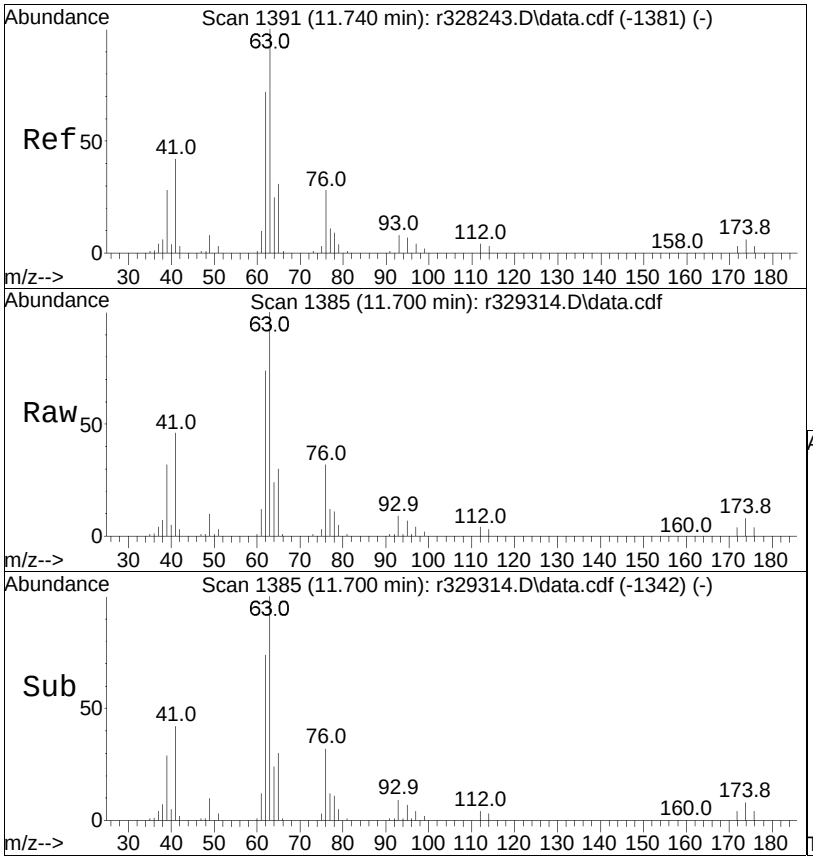


#53
cyclohexane
Concen: 11.15 ppbV
RT: 11.067 min Scan# 1290
Delta R.T. -0.047 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 56 Resp: 404157

Ion	Ratio	Lower	Upper
56	100		
84	70.8	58.7	88.1
41	44.9	39.6	59.4

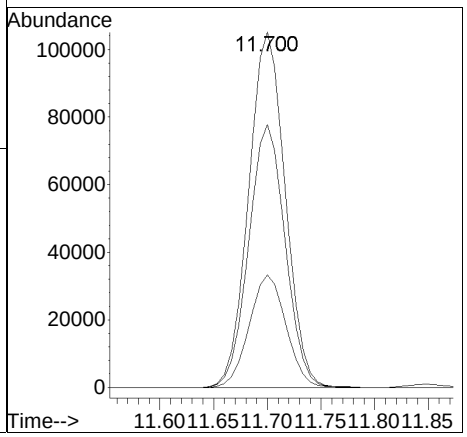


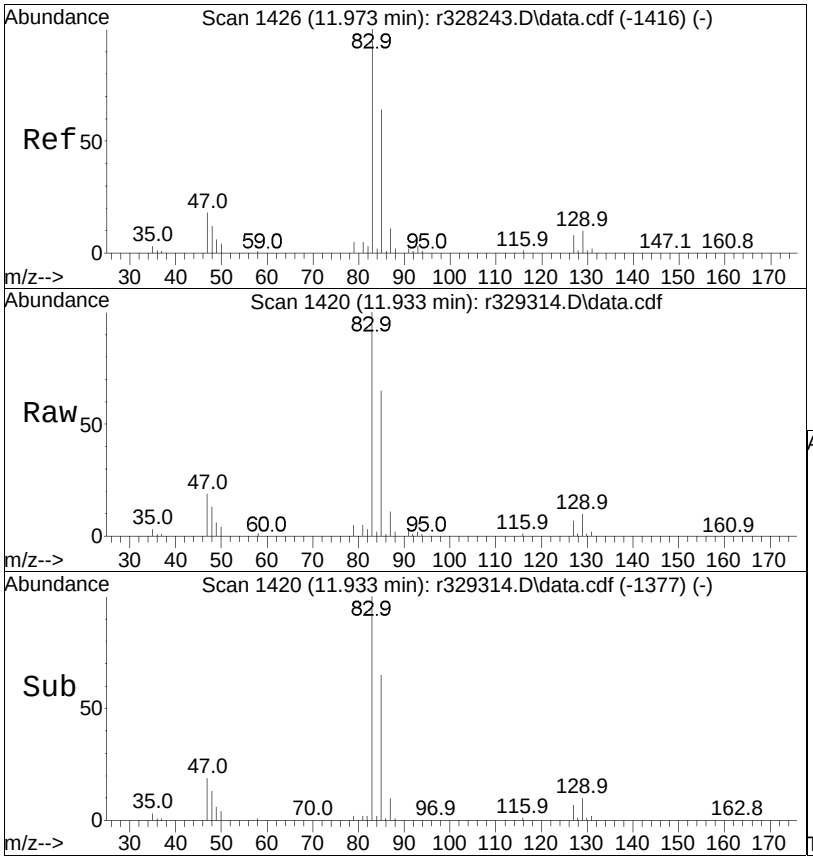


#56
1,2-dichloropropane
Concen: 9.70 ppbV
RT: 11.700 min Scan# 1385
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 63 Resp: 248290

Ion	Ratio	Lower	Upper
63	100		
62	74.0	57.8	86.6
39	31.6	22.7	34.1

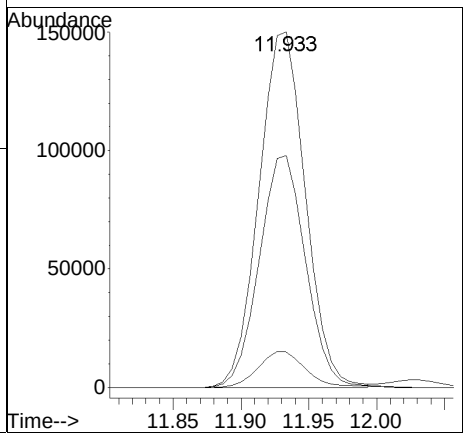


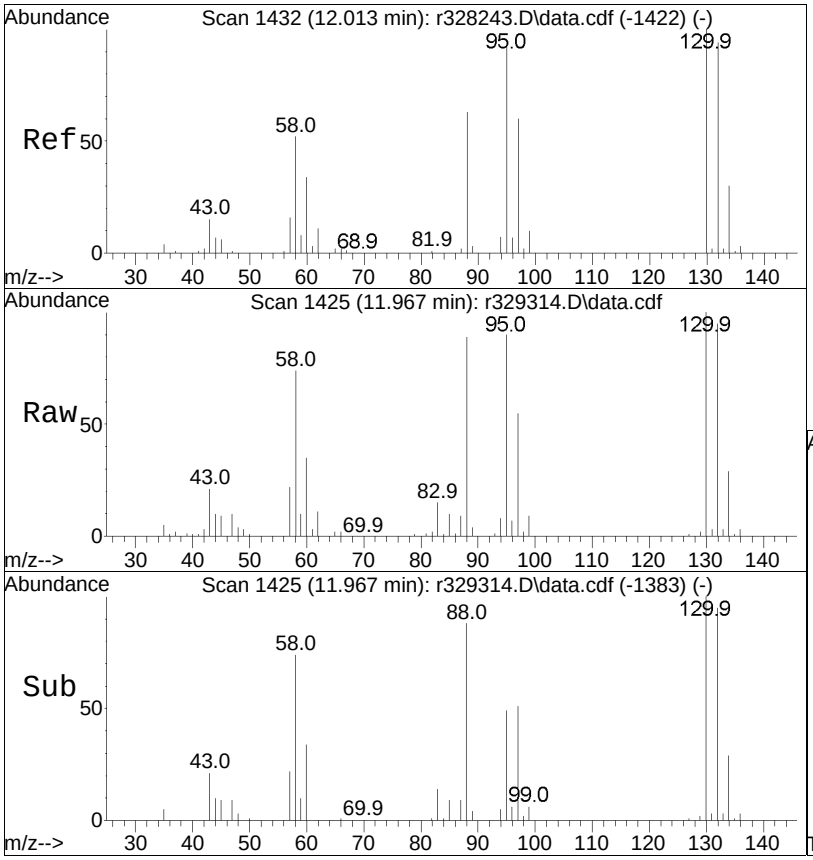


#57
bromodichloromethane
Concen: 12.74 ppbV
RT: 11.933 min Scan# 1420
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 83 Resp: 356923

Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.1	76.7
129	9.9	7.9	11.9

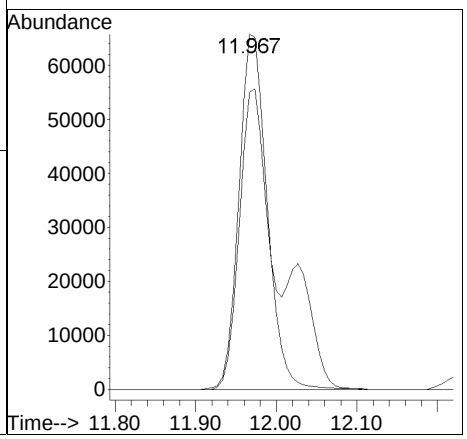


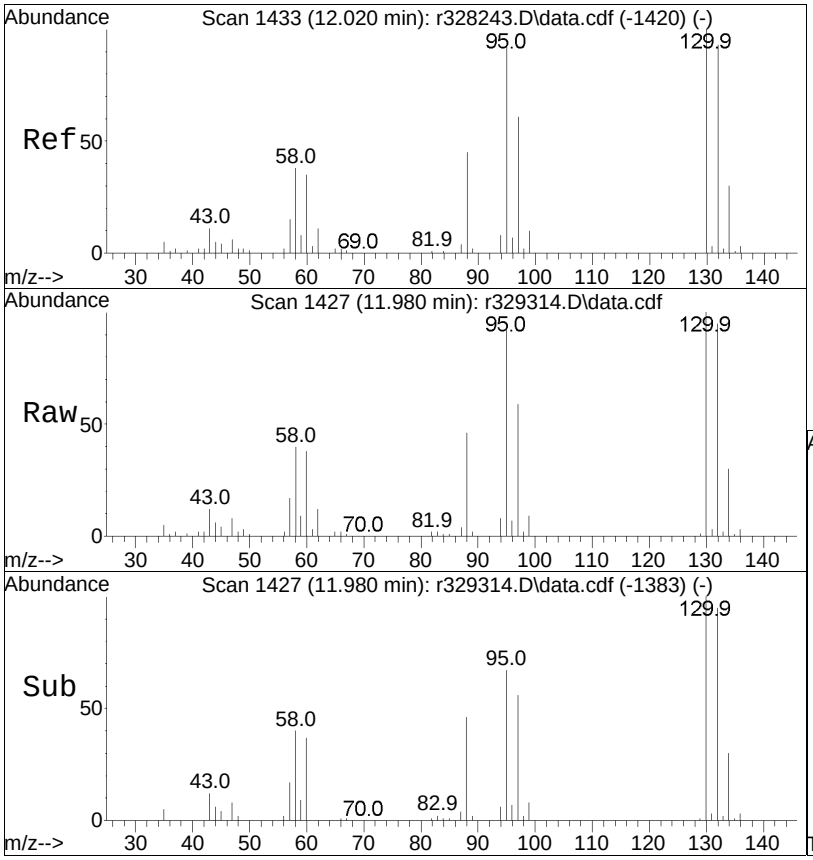


#58
1,4-dioxane
Concen: 11.41 ppbV
RT: 11.967 min Scan# 1425
Delta R.T. -0.047 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 88 Resp: 160195

Ion	Ratio	Lower	Upper
88	100		
58	83.7	66.2	99.4

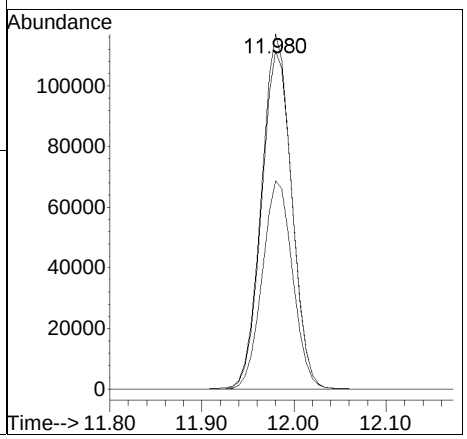


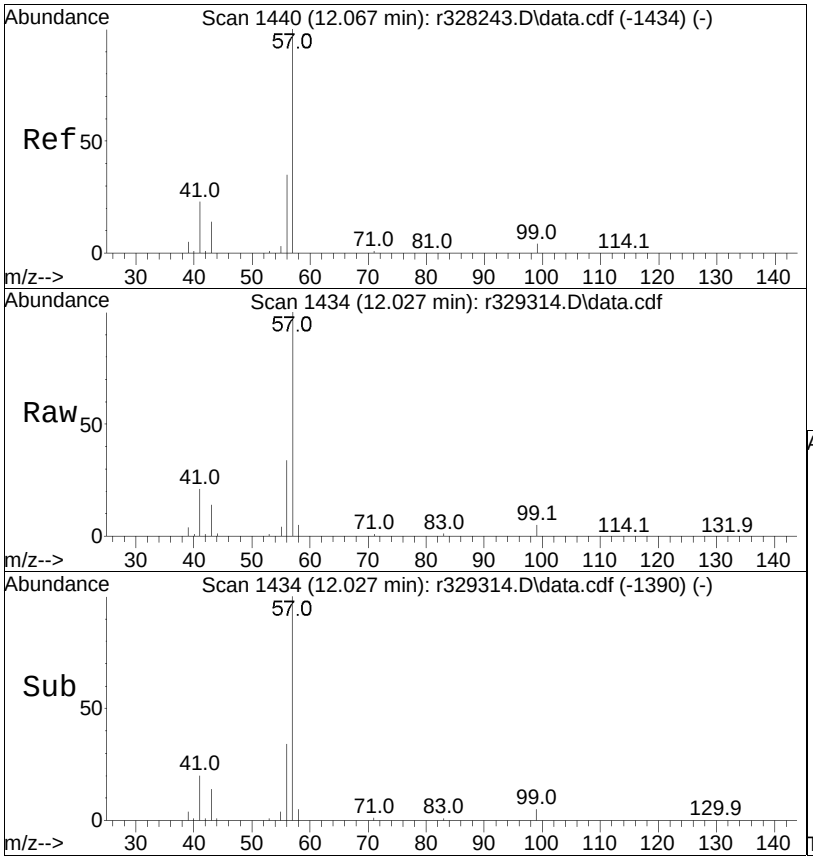


#59
trichloroethene
Concen: 10.71 ppbV
RT: 11.980 min Scan# 1427
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:130 Resp: 267776

Ion	Ratio	Lower	Upper
130	100		
132	95.3	74.6	111.8
97	58.7	49.0	73.6

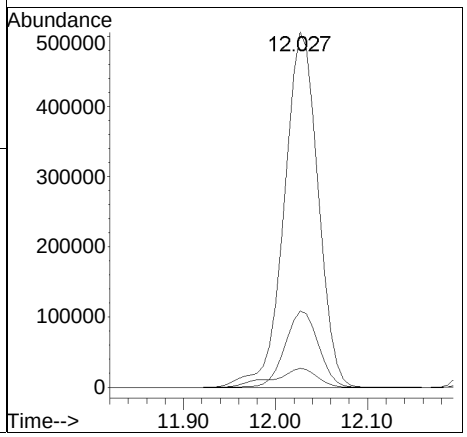


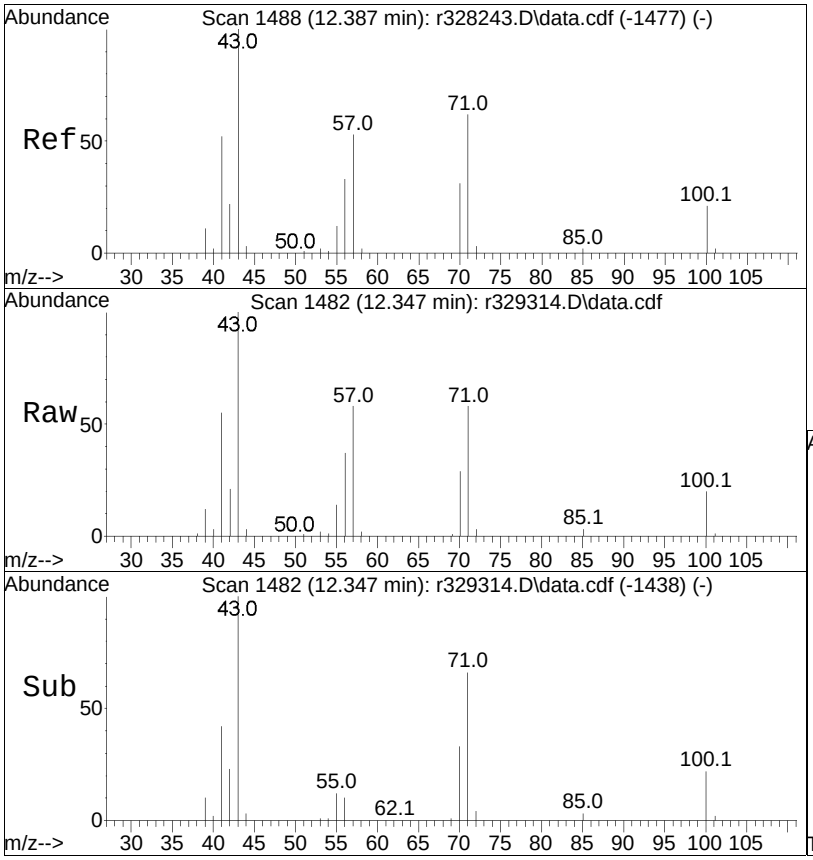


#60
2,2,4-trimethylpentane
Concen: 11.21 ppbV
RT: 12.027 min Scan# 1434
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 57 Resp: 1296899

Ion	Ratio	Lower	Upper
57	100		
99	5.4	4.9	7.3
41	21.5	18.2	27.4

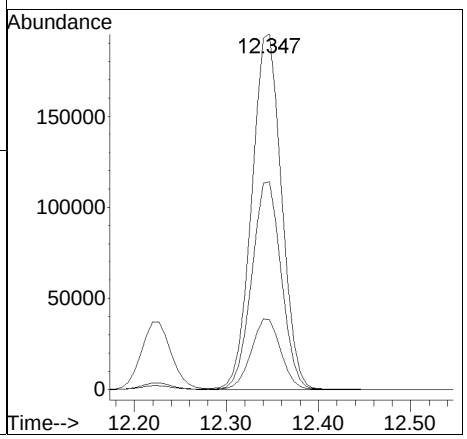


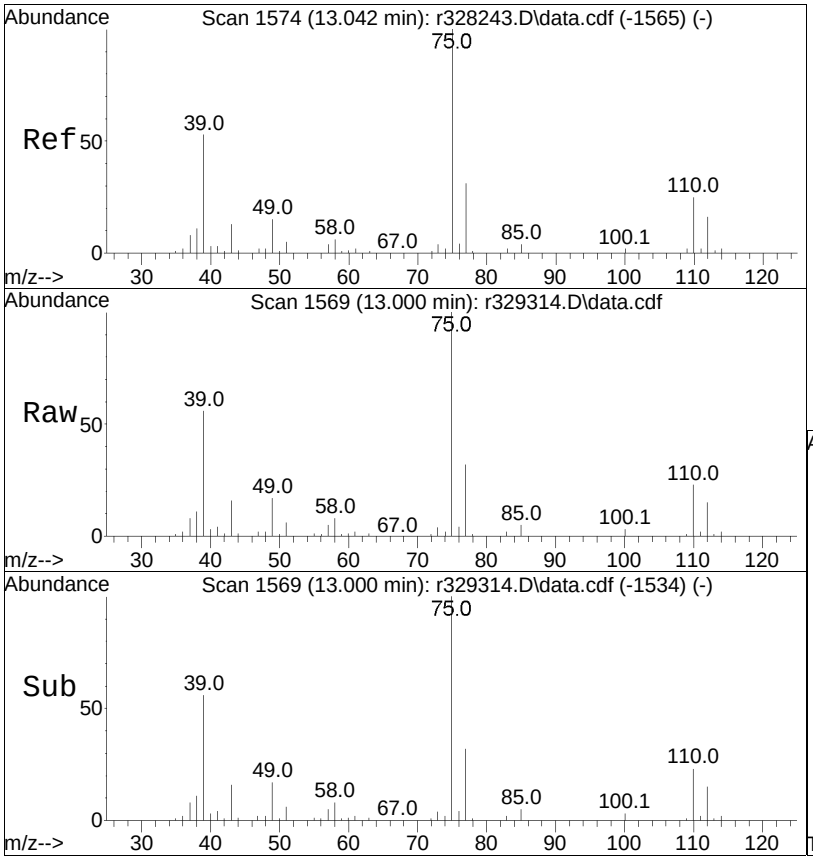


#62
heptane
Concen: 10.65 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 438452

Ion	Ratio	Lower	Upper
43	100		
57	58.5	42.6	64.0
100	19.6	17.0	25.4

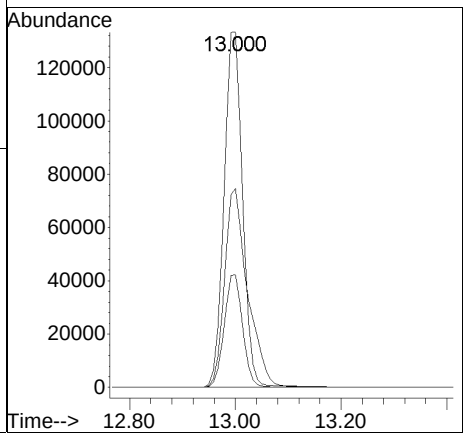


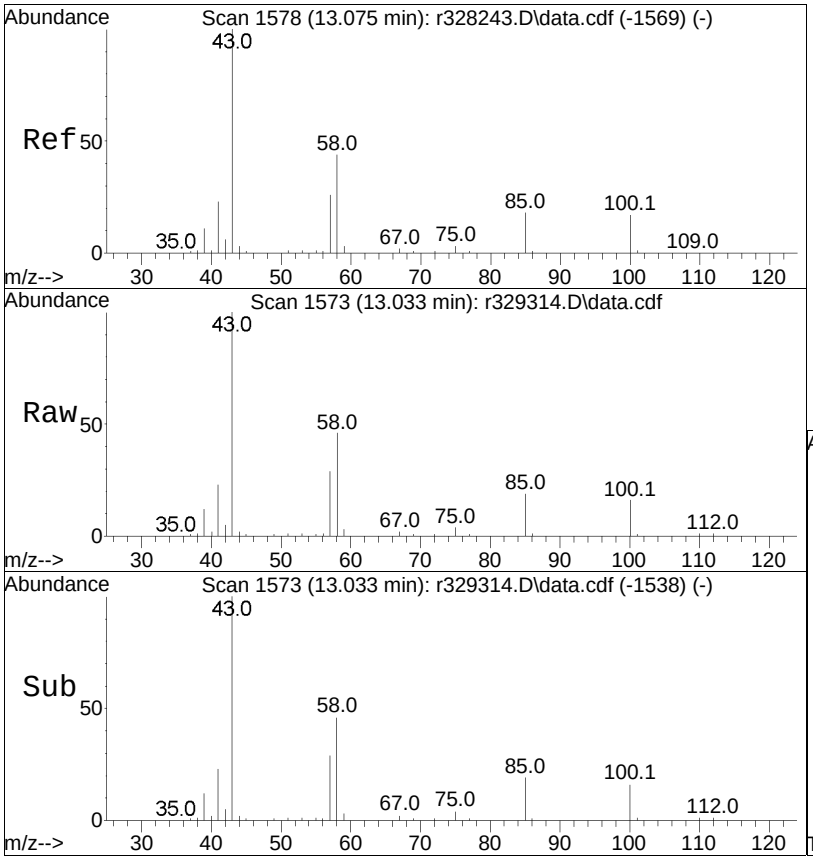


#63
cis-1,3-dichloropropene
Concen: 10.43 ppbV
RT: 13.000 min Scan# 1569
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 75 Resp: 324682

Ion	Ratio	Lower	Upper
75	100		
39	56.0	42.6	64.0
77	31.7	25.0	37.4

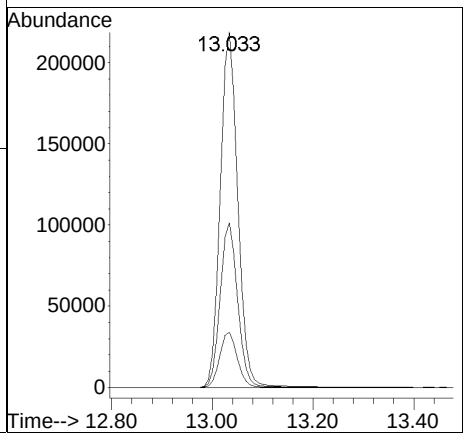


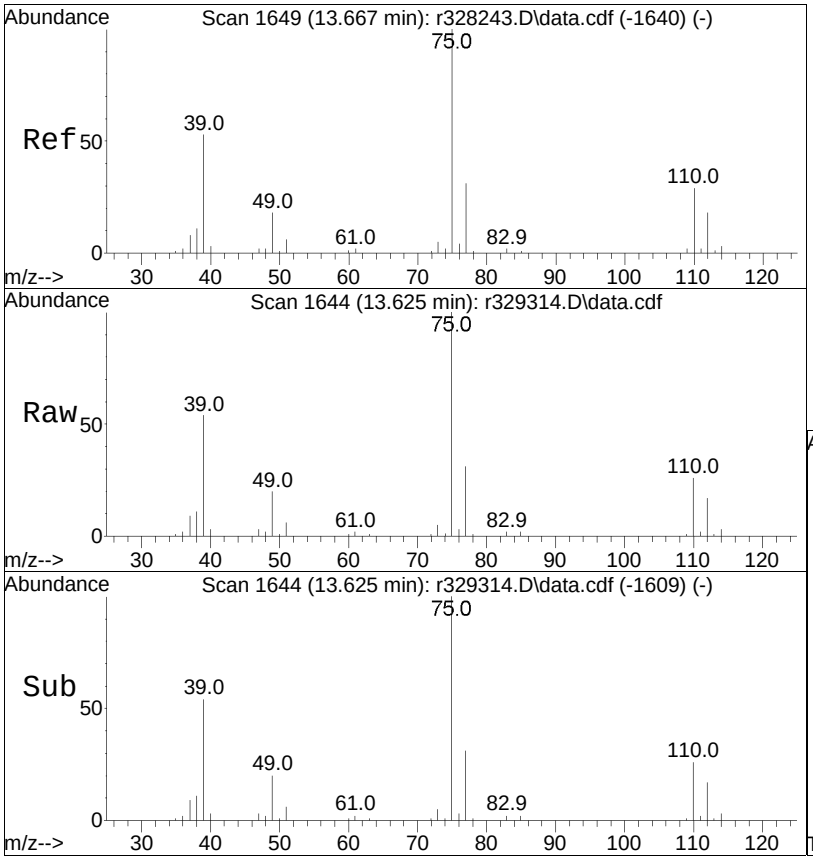


#64
4-methyl-2-pentanone
Concen: 11.01 ppbV
RT: 13.033 min Scan# 1573
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 530320

Ion	Ratio	Lower	Upper
43	100		
58	46.4	35.4	53.2
100	15.6	13.8	20.8

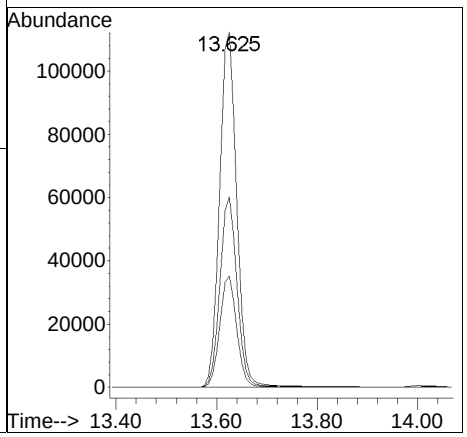


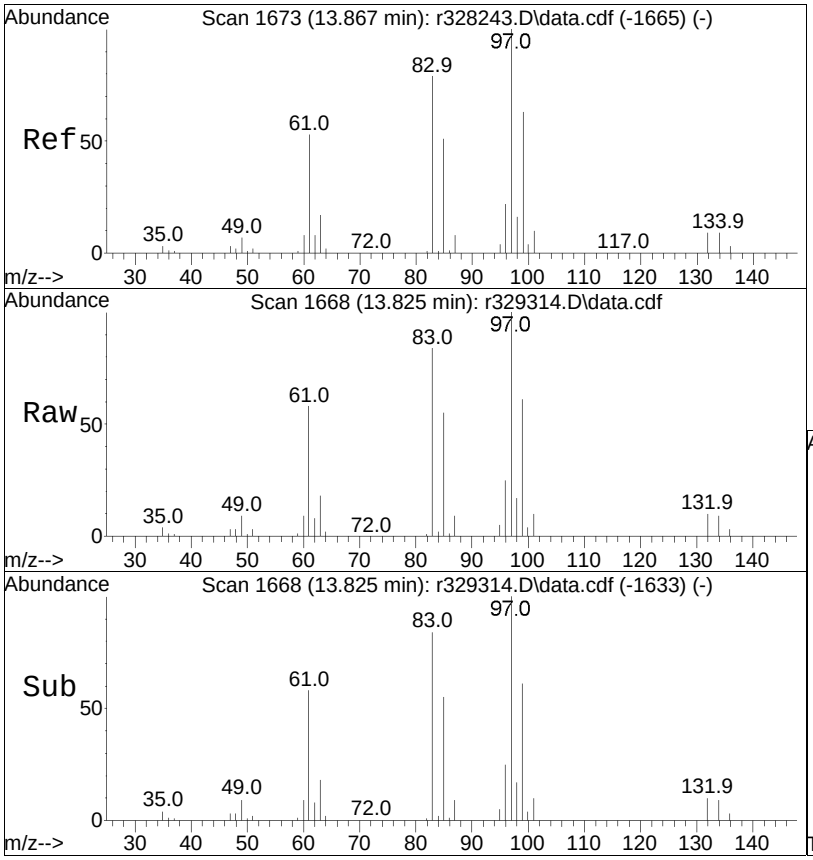


#65
trans-1,3-dichloropropene
Concen: 10.92 ppbV
RT: 13.625 min Scan# 1644
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 75 Resp: 267546

Ion	Ratio	Lower	Upper
75	100		
77	31.4	24.6	37.0
39	53.7	42.6	64.0

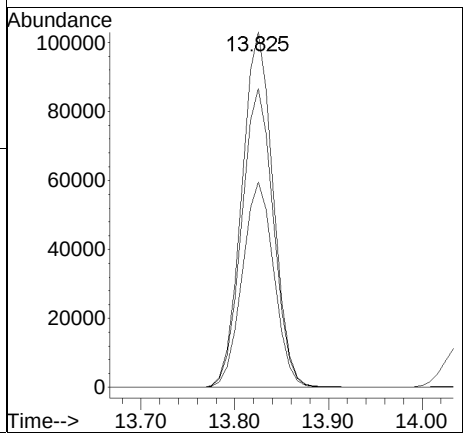


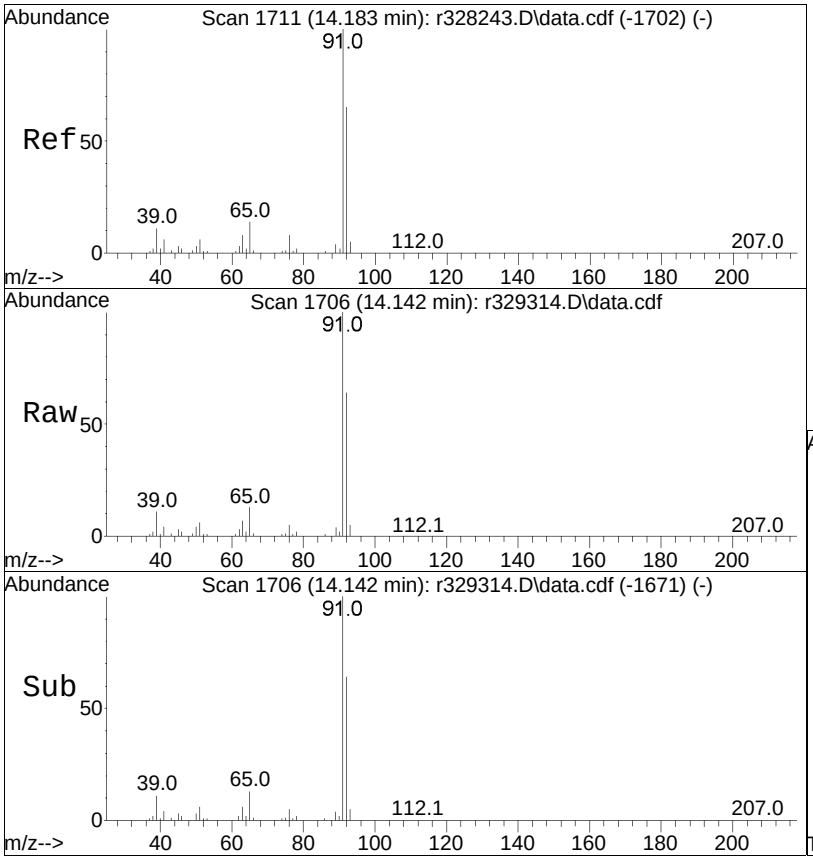


#66
1,1,2-trichloroethane
Concen: 10.03 ppbV
RT: 13.825 min Scan# 1668
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 97 Resp: 239925

Ion	Ratio	Lower	Upper
97	100		
83	84.1	62.9	94.3
61	57.8	42.5	63.7

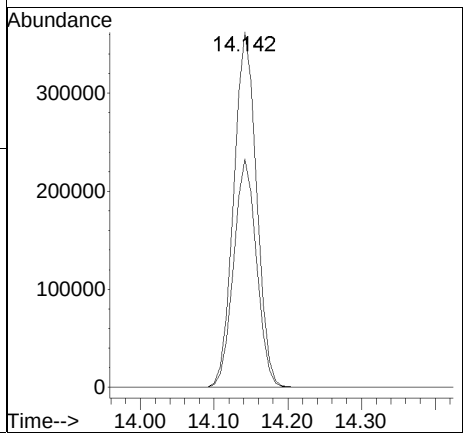


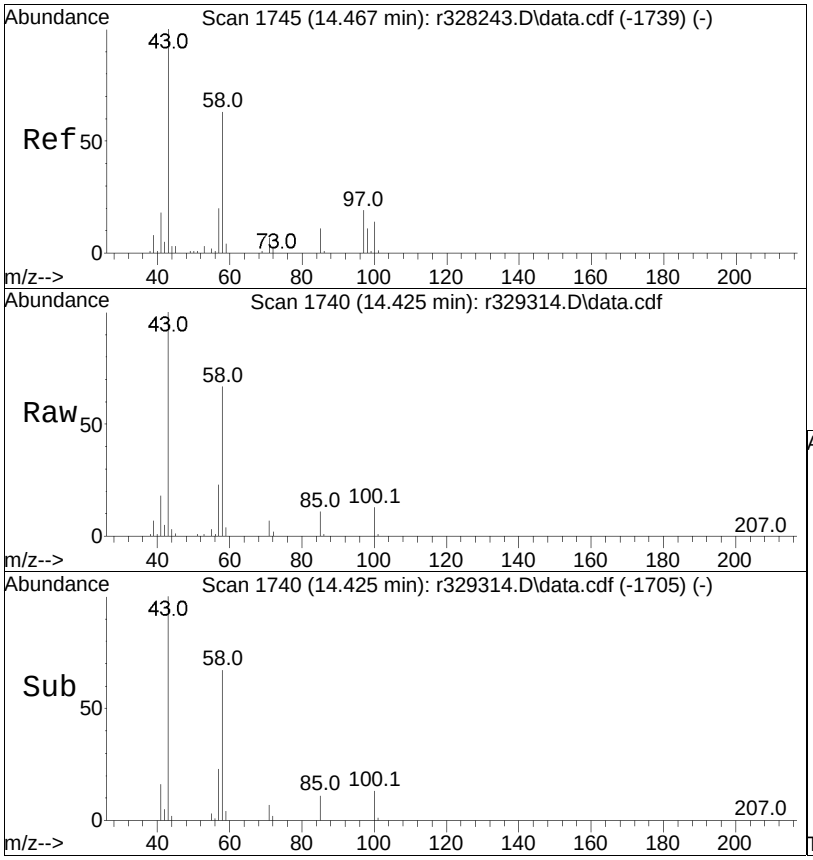


#68
toluene
Concen: 7.92 ppbV
RT: 14.142 min Scan# 1706
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 91 Resp: 782354

Ion	Ratio	Lower	Upper
91	100		
92	64.3	52.1	78.1

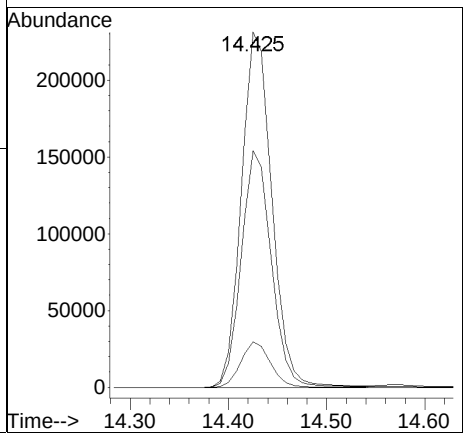


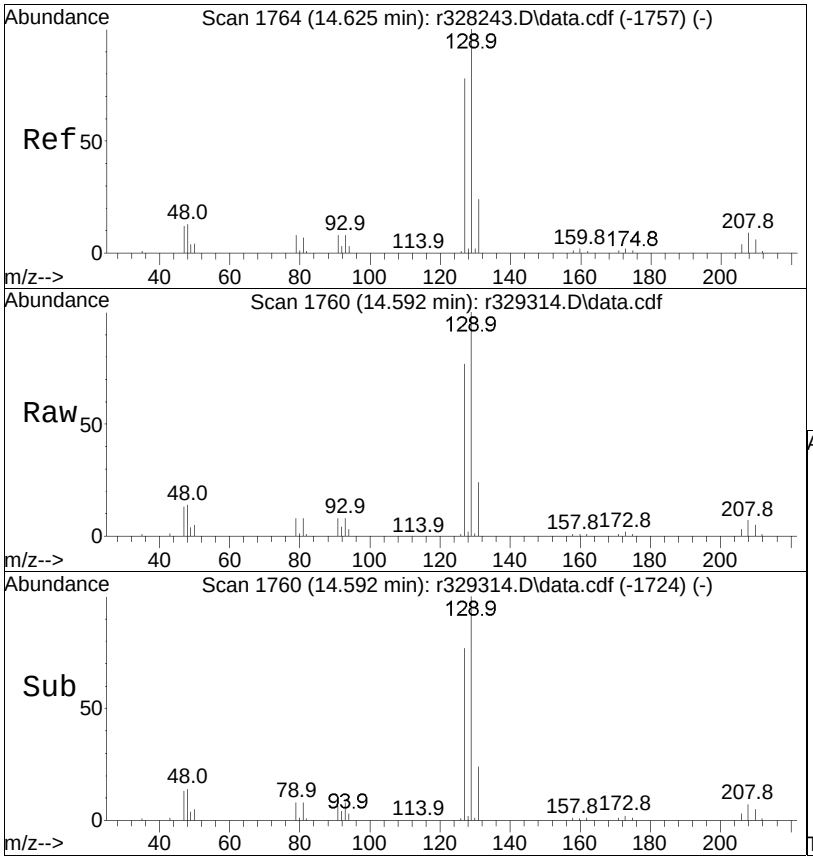


#72
2-hexanone
Concen: 8.77 ppbV
RT: 14.425 min Scan# 1740
Delta R.T. -0.042 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 43 Resp: 499795

Ion	Ratio	Lower	Upper
43	100		
58	66.6	50.6	75.8
100	12.8	11.6	17.4

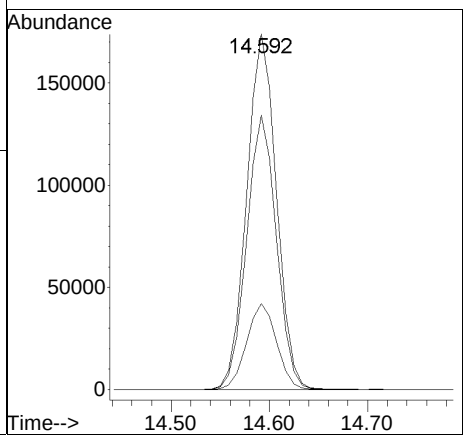


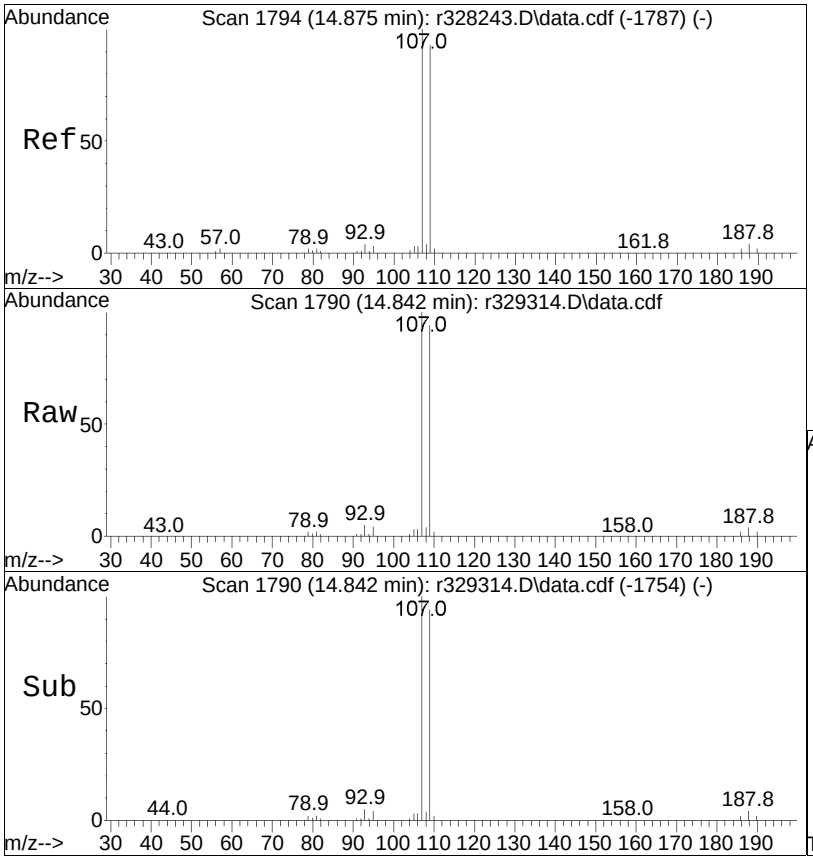


#74
dibromochloromethane
Concen: 10.65 ppbV
RT: 14.592 min Scan# 1760
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:129 Resp: 365899

Ion	Ratio	Lower	Upper
129	100		
127	77.1	62.2	93.2
131	24.2	19.5	29.3

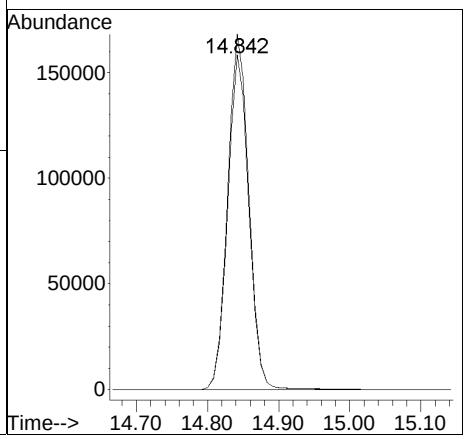


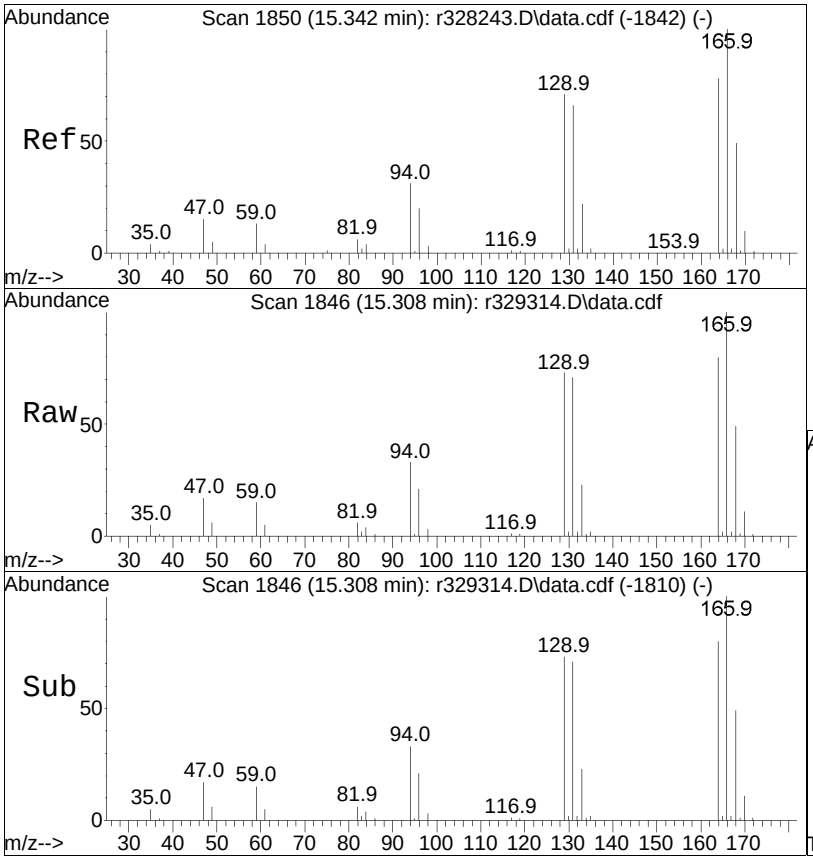


#75
1,2-dibromoethane
Concen: 7.94 ppbV
RT: 14.842 min Scan# 1790
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:107 Resp: 348030

Ion	Ratio	Lower	Upper
107	100		
109	94.2	74.7	112.1

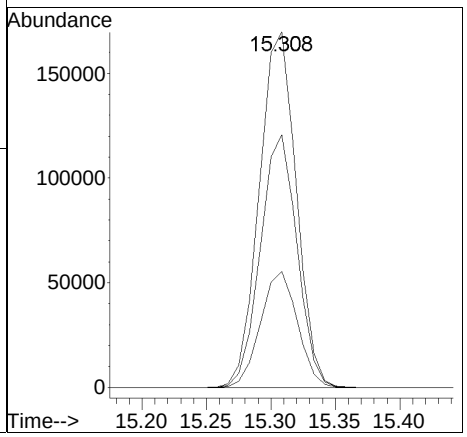


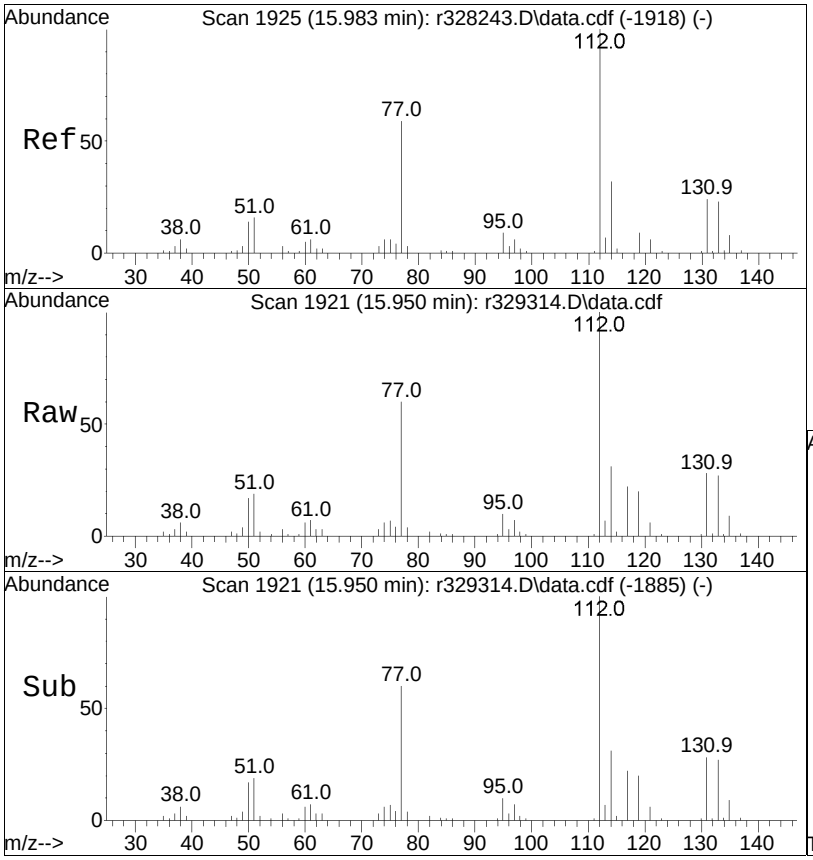


#78
tetrachloroethene
Concen: 8.39 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:166 Resp: 339414

Ion	Ratio	Lower	Upper
166	100		
131	71.2	52.6	79.0
94	32.7	24.5	36.7

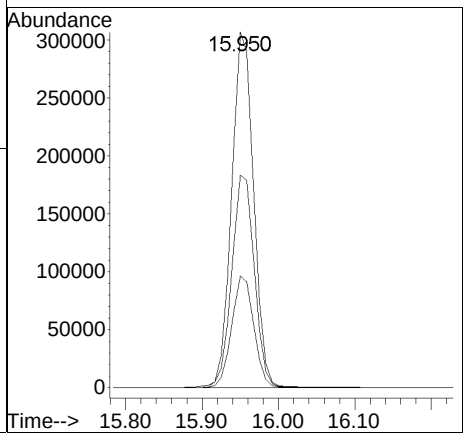


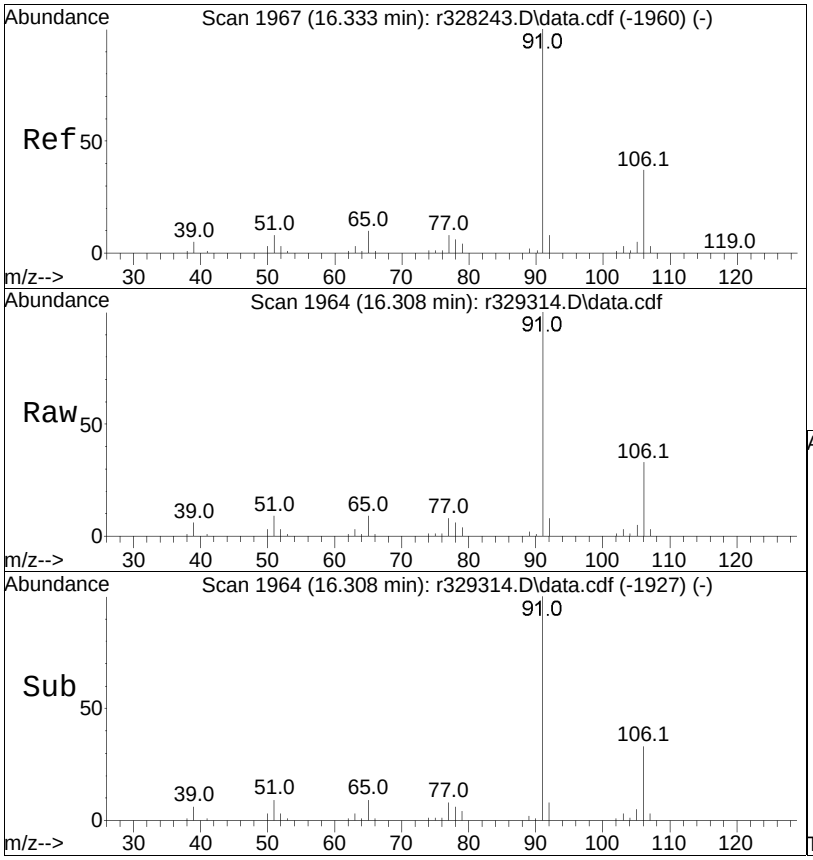


#80
chlorobenzene
Concen: 8.28 ppbV
RT: 15.950 min Scan# 1921
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:112 Resp: 611667

Ion	Ratio	Lower	Upper
112	100		
114	31.4	25.4	38.0
77	59.8	47.8	71.6

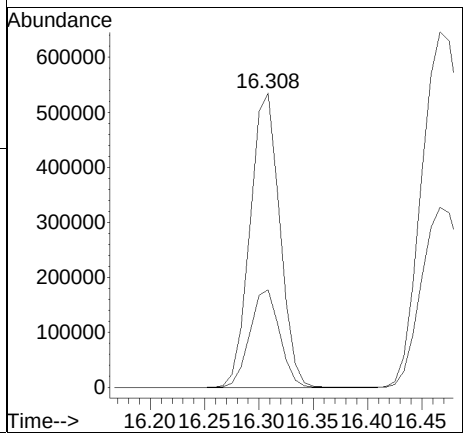


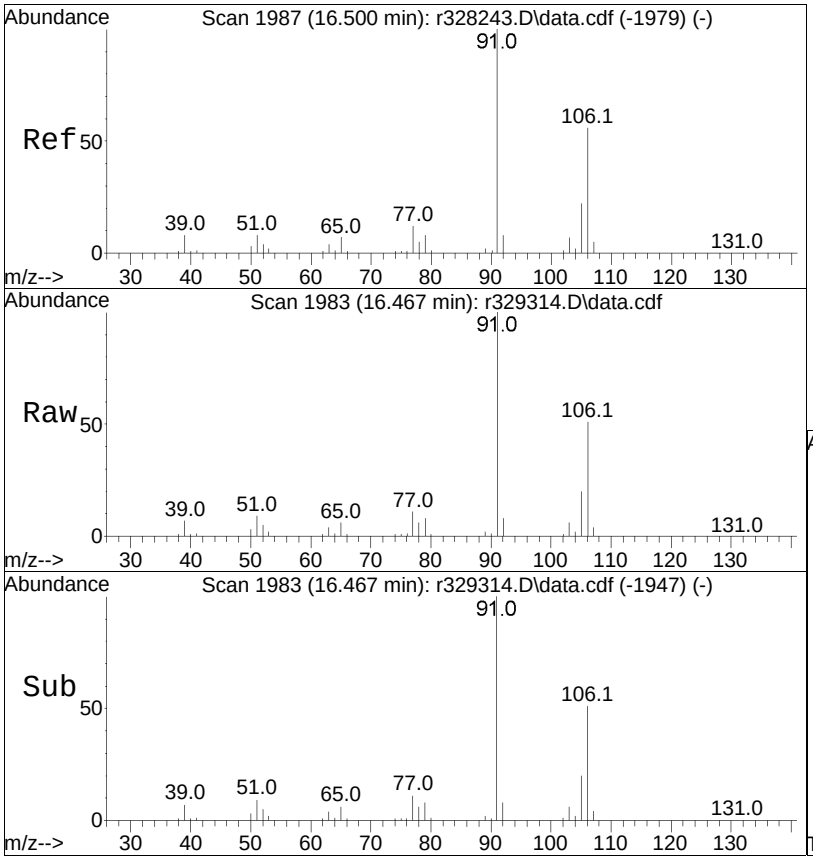


#81
ethylbenzene
Concen: 8.33 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 91 Resp: 1019044

Ion	Ratio	Lower	Upper
91	100		
106	33.2	29.2	43.8

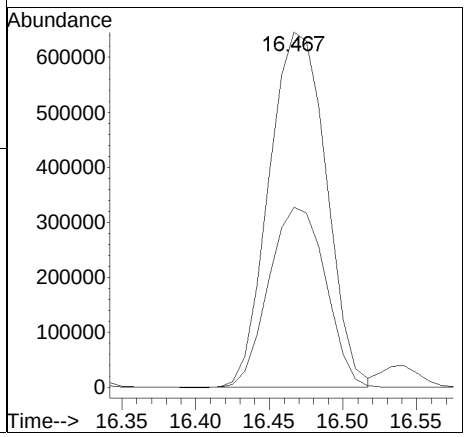


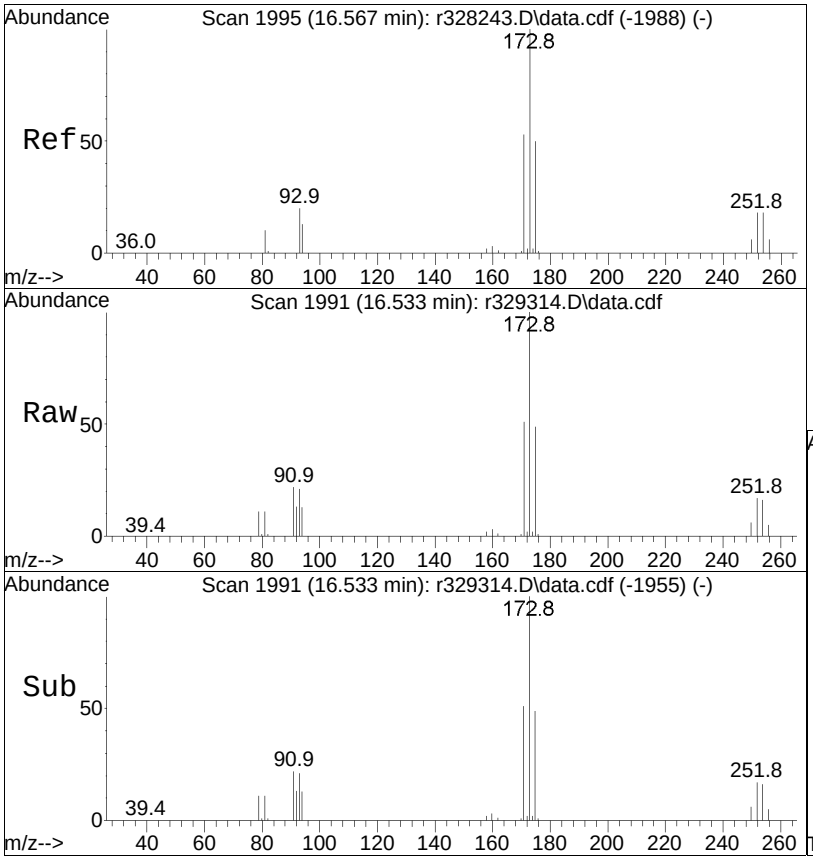


#83
m+p-xylene
Concen: 17.81 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 91 Resp: 1743345

Ion	Ratio	Lower	Upper
91	100		
106	50.7	44.8	67.2

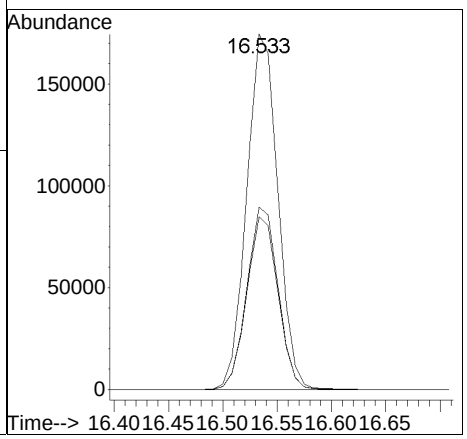


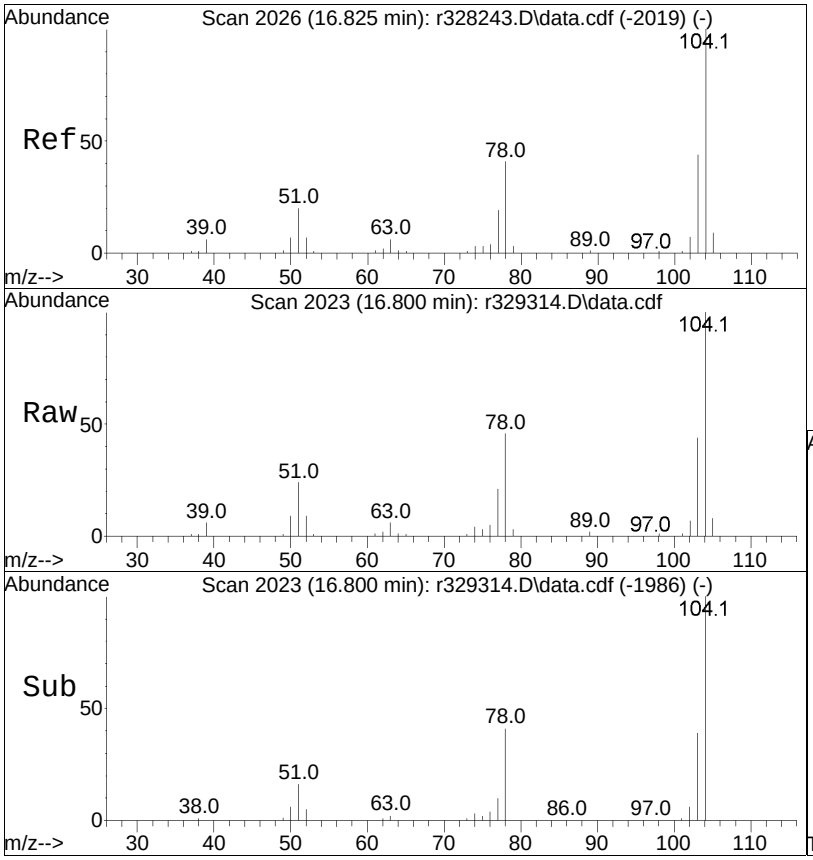


#84
bromoform
Concen: 11.36 ppbV
RT: 16.533 min Scan# 1991
Delta R.T. -0.034 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:173 Resp: 347294

Ion	Ratio	Lower	Upper
173	100		
175	48.6	39.9	59.9
171	51.3	42.3	63.5

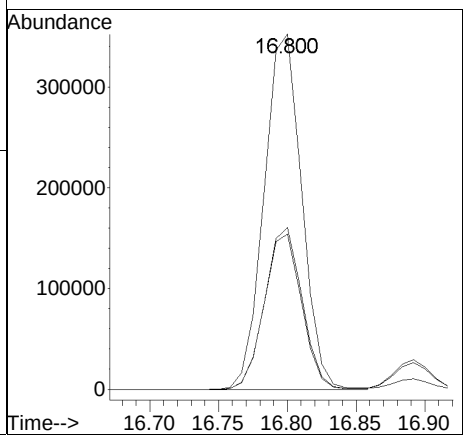


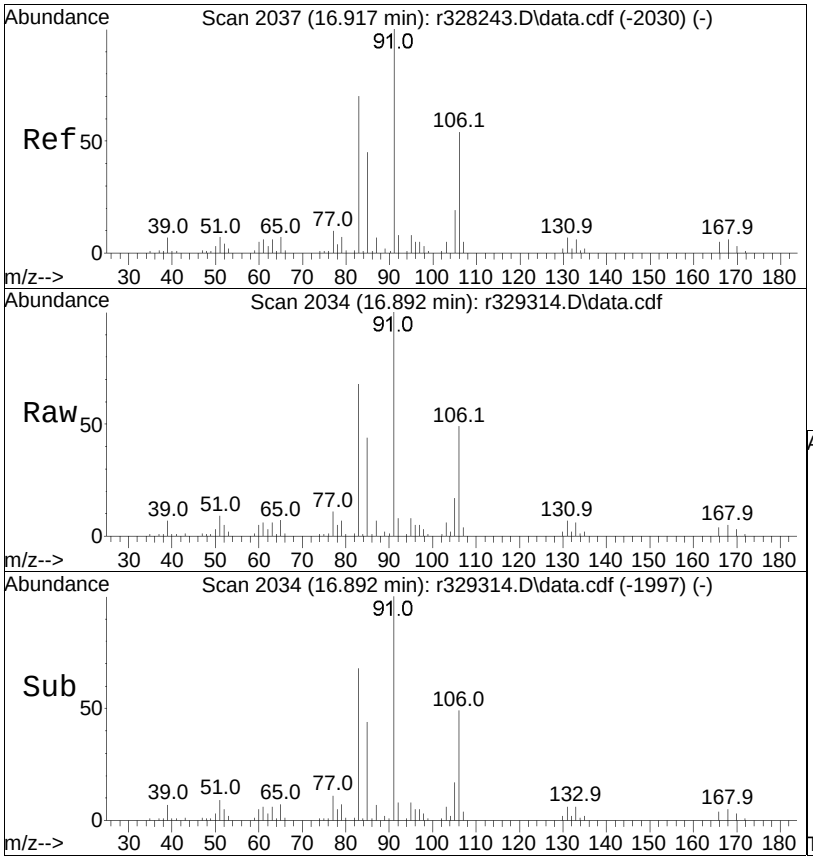


#85
styrene
Concen: 8.32 ppbV
RT: 16.800 min Scan# 2023
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:104 Resp: 671063

Ion	Ratio	Lower	Upper
104	100		
103	43.7	34.8	52.2
78	45.5	32.6	48.8

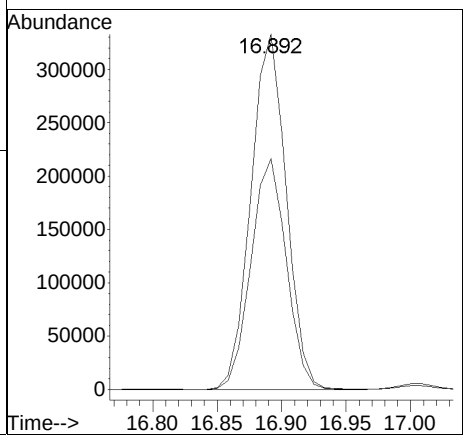


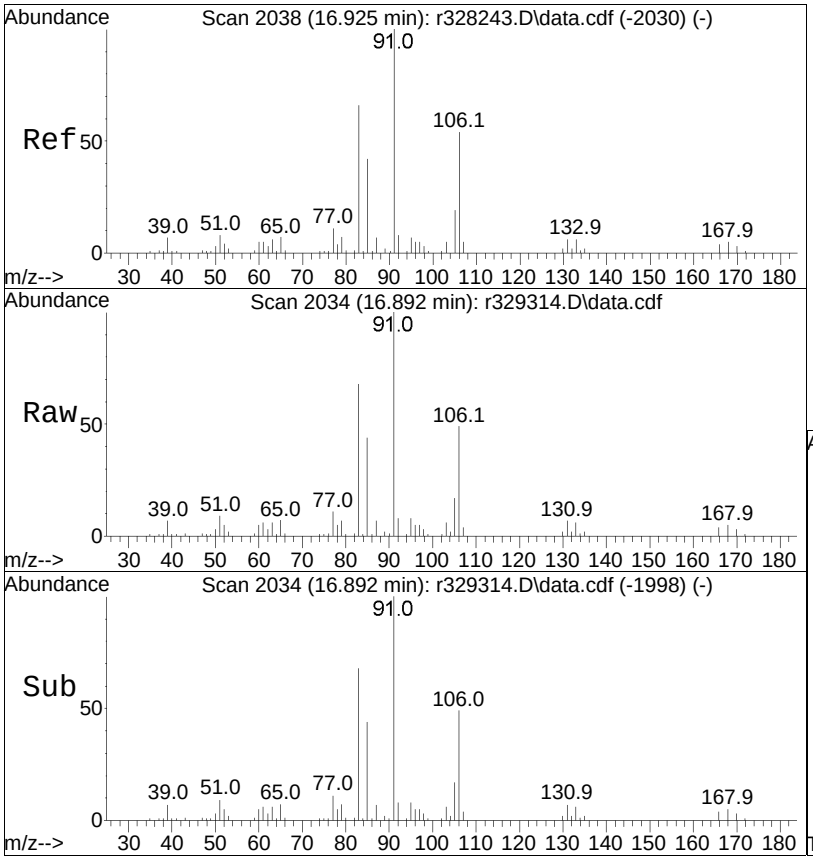


#86
1,1,2,2-tetrachloroethane
Concen: 9.53 ppbV
RT: 16.892 min Scan# 2034
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 83 Resp: 634240

Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.2	76.8

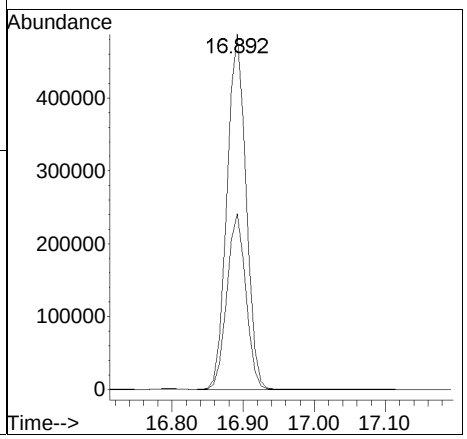


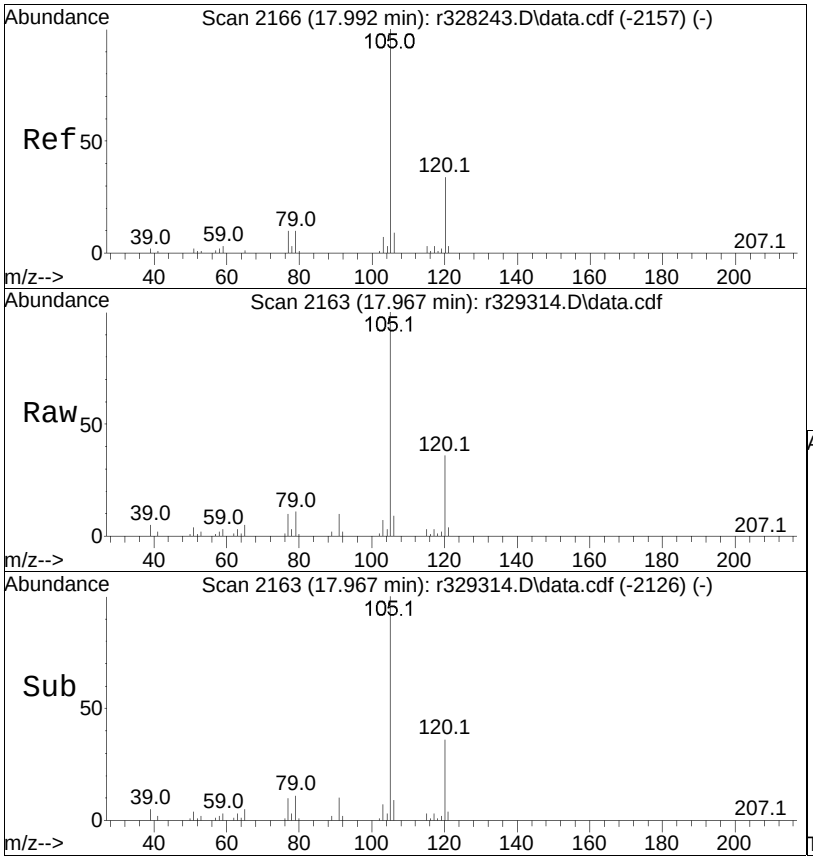


#87
o-xylene
Concen: 9.36 ppbV
RT: 16.892 min Scan# 2034
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 91 Resp: 908706

Ion	Ratio	Lower	Upper
91	100		
106	49.5	43.0	64.6

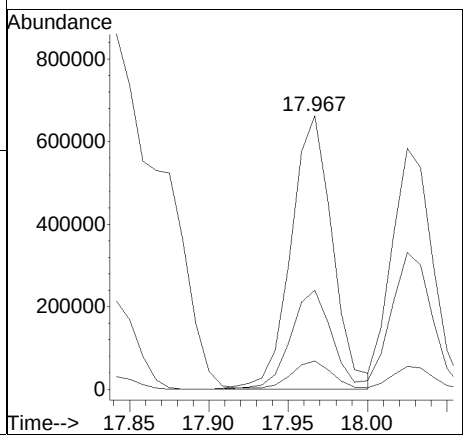


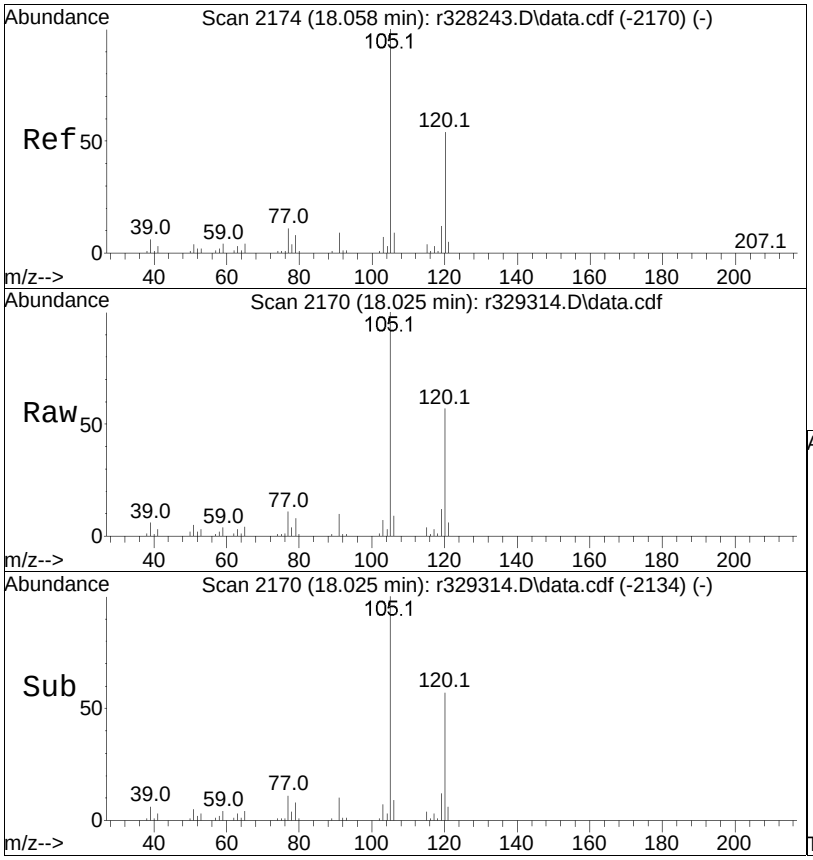


#96
4-ethyl toluene
Concen: 9.41 ppbV
RT: 17.967 min Scan# 2163
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:105 Resp: 1204787

Ion	Ratio	Lower	Upper
105	100		
120	36.2	27.3	40.9
91	10.4	7.7	11.5

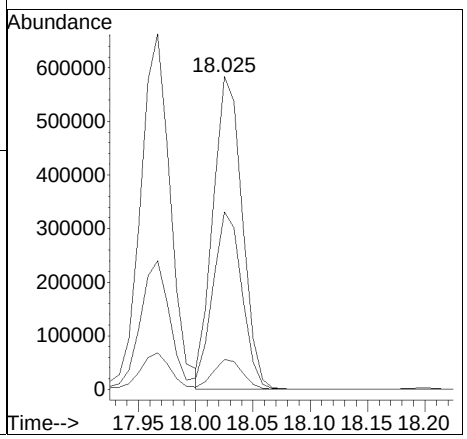


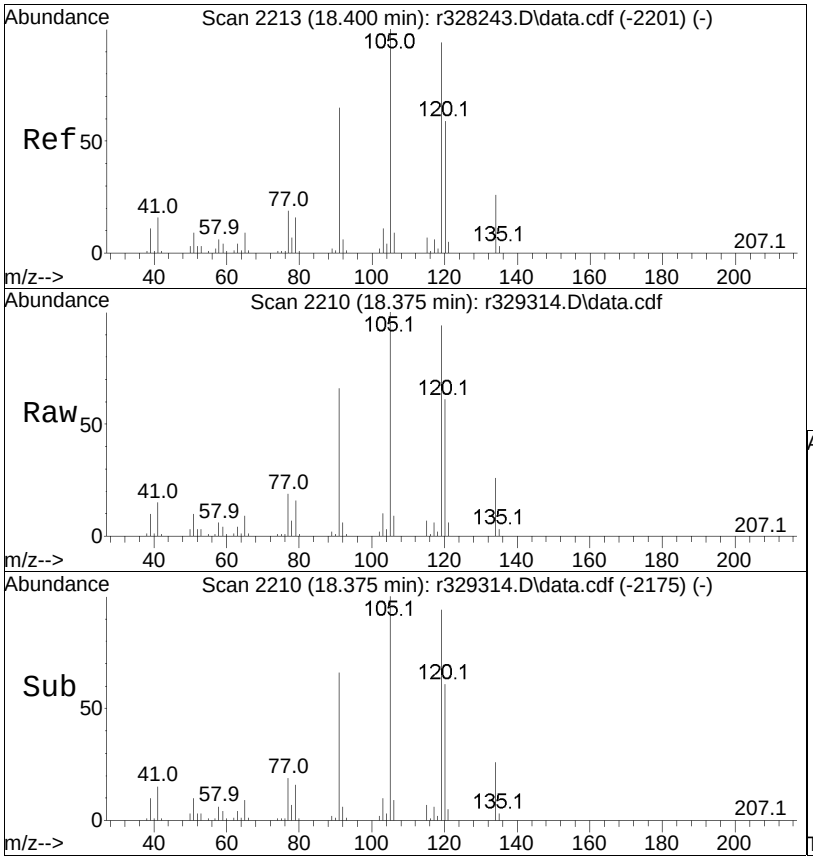


#97
1,3,5-trimethylbenzene
Concen: 9.11 ppbV
RT: 18.025 min Scan# 2170
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:105 Resp: 1032719

Ion	Ratio	Lower	Upper
105	100		
120	56.7	42.6	64.0
91	9.6	7.4	11.0

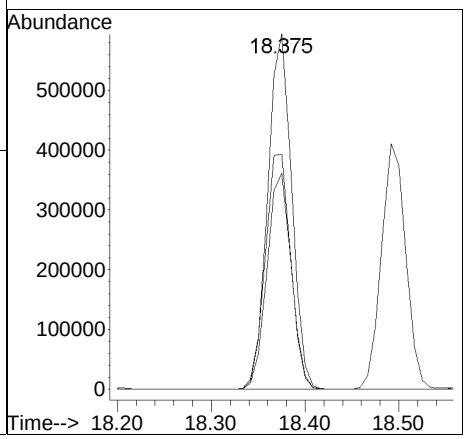


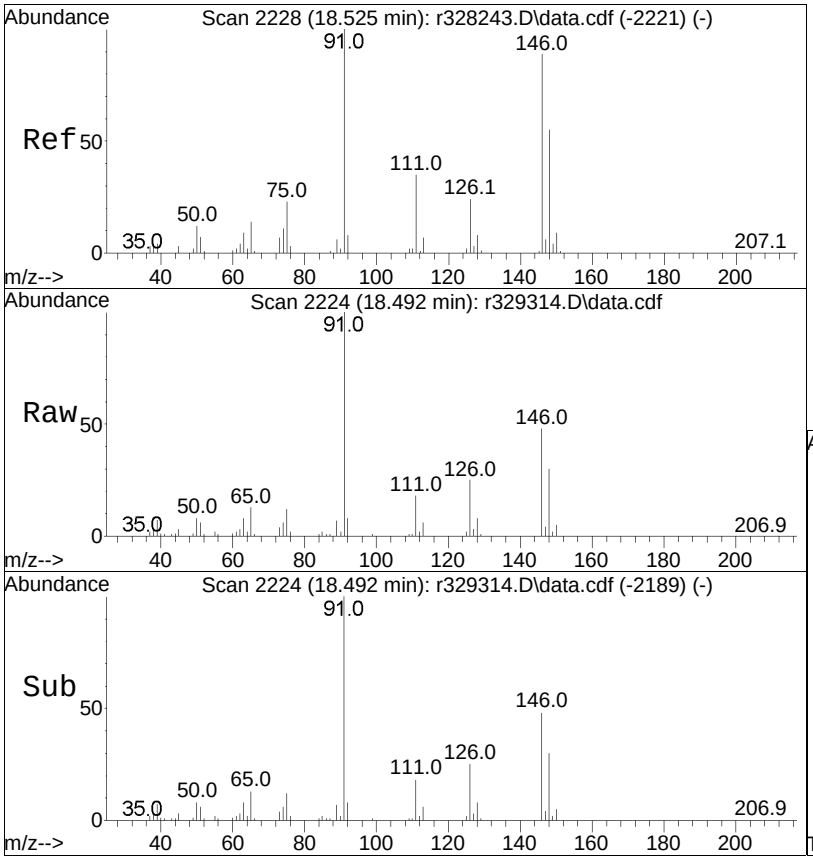


#99
1,2,4-trimethylbenzene
Concen: 9.69 ppbV
RT: 18.375 min Scan# 2210
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:105 Resp: 1060325

Ion	Ratio	Lower	Upper
105	100		
120	60.8	47.1	70.7
91	66.2	51.8	77.6

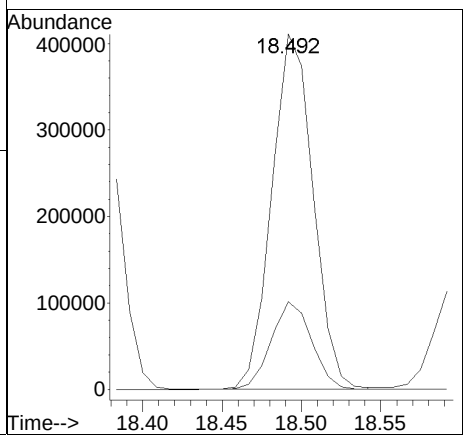


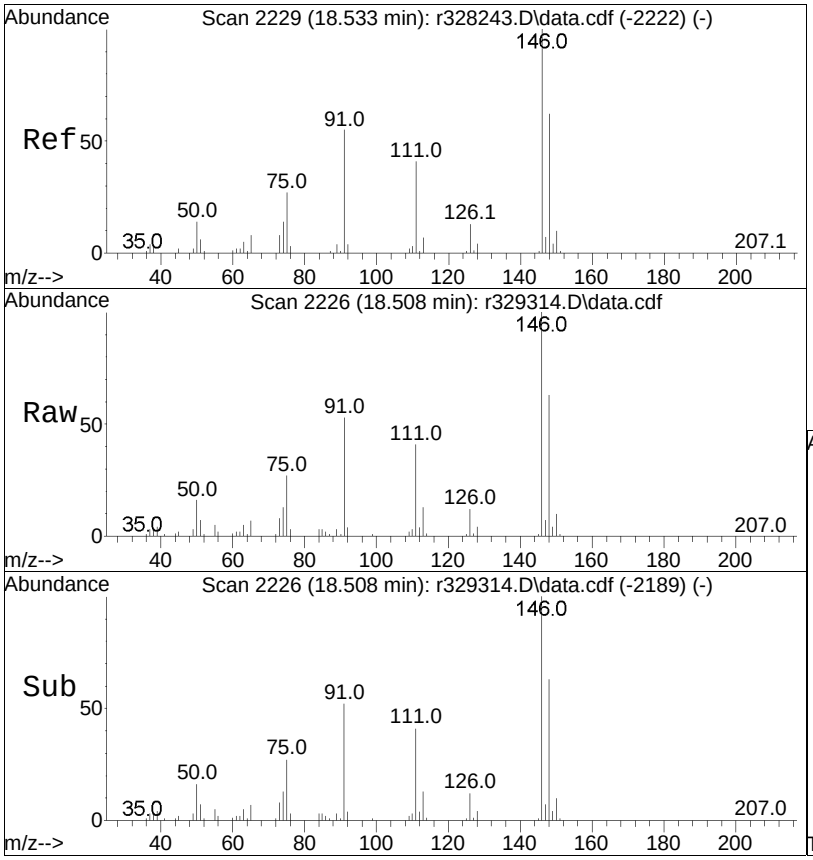


#101
Benzyl Chloride
Concen: 11.16 ppbV
RT: 18.492 min Scan# 2224
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion: 91 Resp: 743551

Ion	Ratio	Lower	Upper
91	100		
126	24.7	19.0	28.6

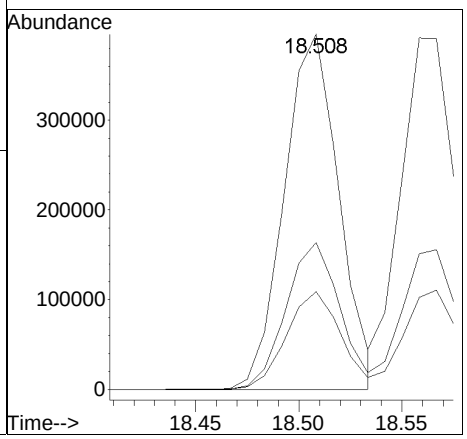


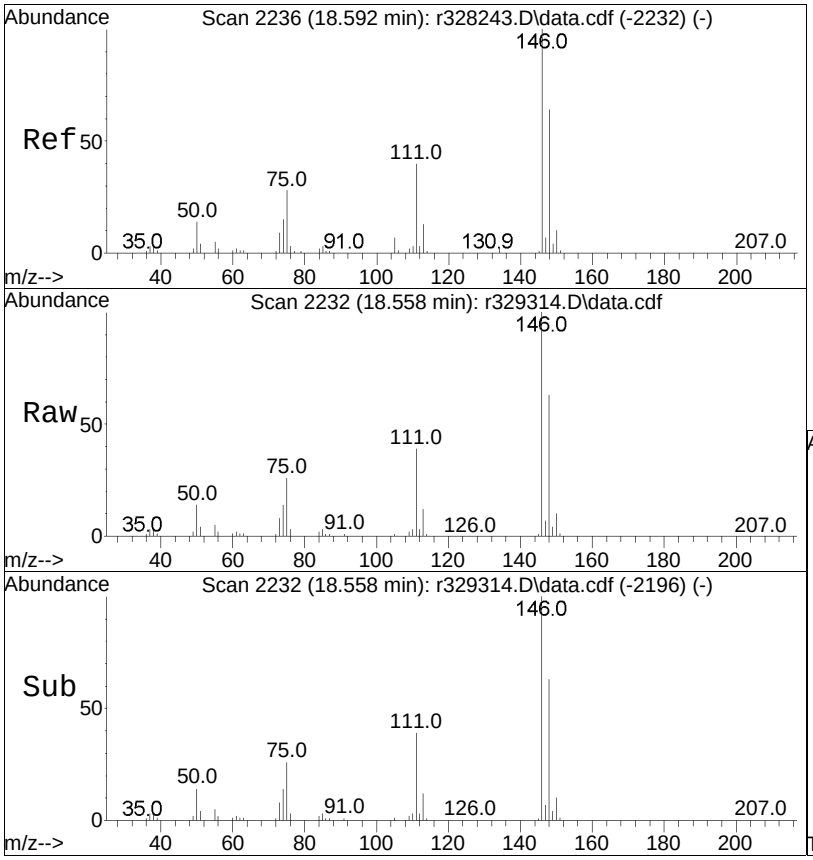


#102
1,3-dichlorobenzene
Concen: 9.91 ppbV
RT: 18.508 min Scan# 2226
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:146 Resp: 728524

Ion	Ratio	Lower	Upper
146	100		
111	41.4	32.7	49.1
75	27.5	21.9	32.9

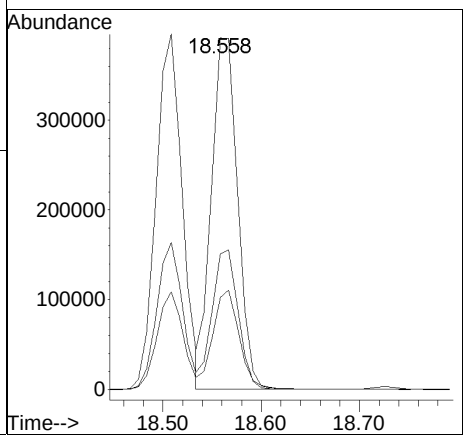


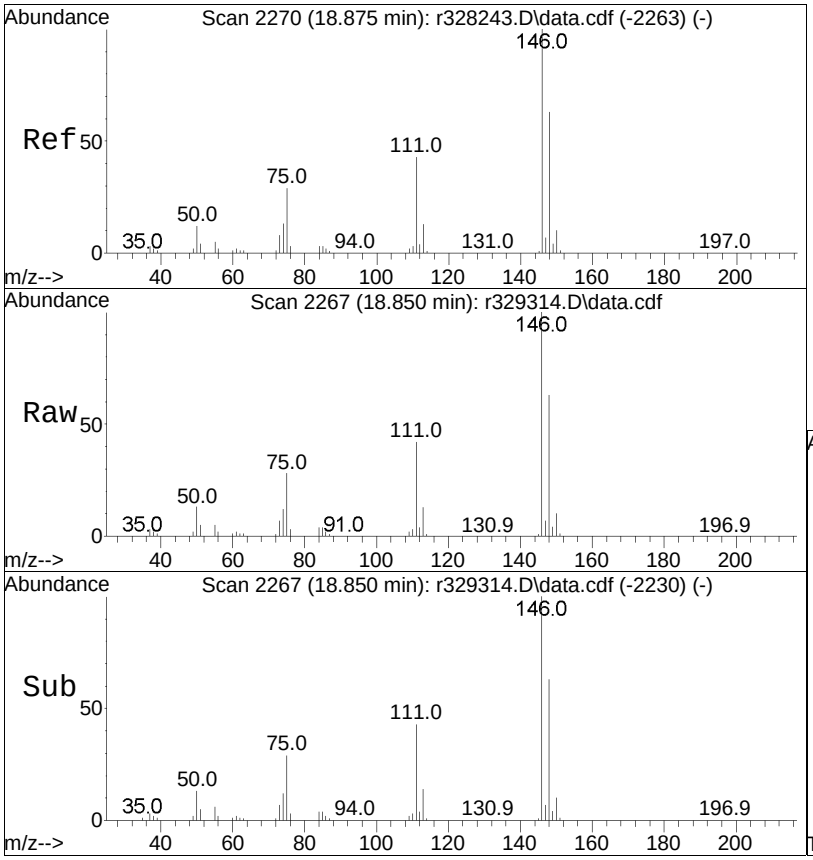


#103
1,4-dichlorobenzene
Concen: 9.92 ppbV
RT: 18.558 min Scan# 2232
Delta R.T. -0.033 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:146 Resp: 728105

Ion	Ratio	Lower	Upper
146	100		
111	38.6	32.2	48.4
75	26.2	22.9	34.3

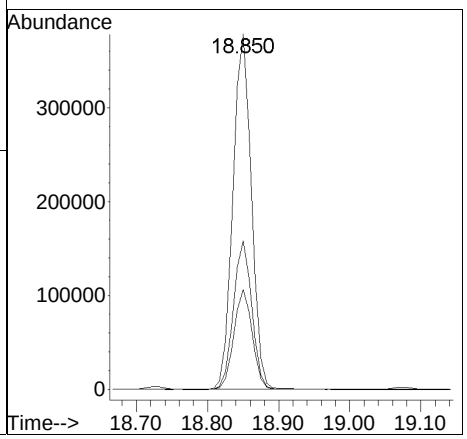


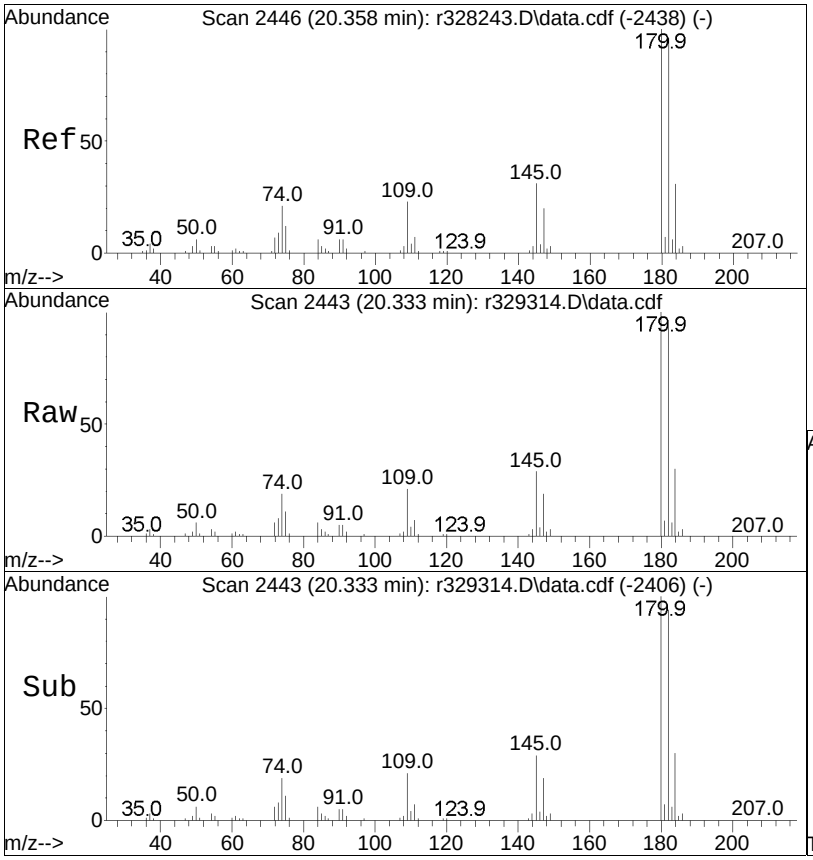


#107
1,2-dichlorobenzene
Concen: 9.48 ppbV
RT: 18.850 min Scan# 2267
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:146 Resp: 681736

Ion	Ratio	Lower	Upper
146	100		
111	41.8	34.3	51.5
75	28.1	23.3	34.9

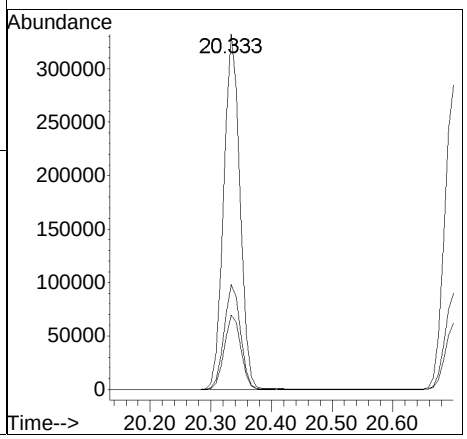


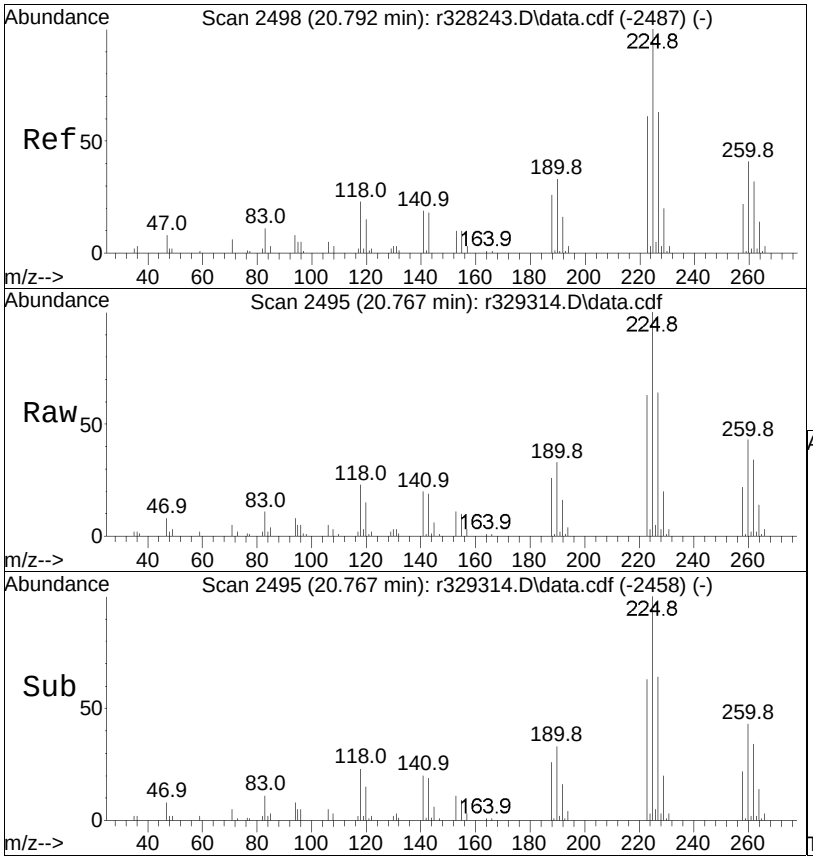


#115
1,2,4-trichlorobenzene
Concen: 10.41 ppbV
RT: 20.333 min Scan# 2443
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:180 Resp: 622952

Ion	Ratio	Lower	Upper
180	100		
145	29.5	25.1	37.7
109	20.9	18.3	27.5

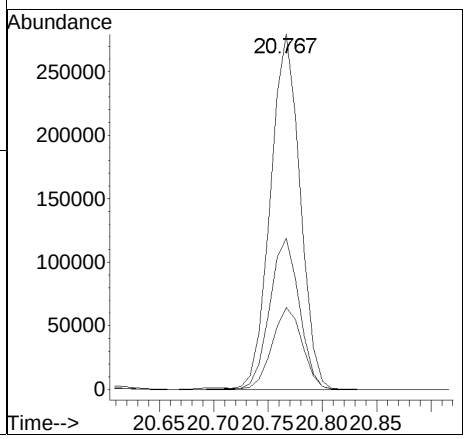




#119
hexachlorobutadiene
Concen: 9.27 ppbV
RT: 20.767 min Scan# 2495
Delta R.T. -0.025 min
Lab File: r329314.D
Acq: 25 Feb 2024 1:51 PM

Tgt Ion:225 Resp: 529902

Ion	Ratio	Lower	Upper
225	100		
260	42.5	33.0	49.4
118	23.1	18.3	27.5

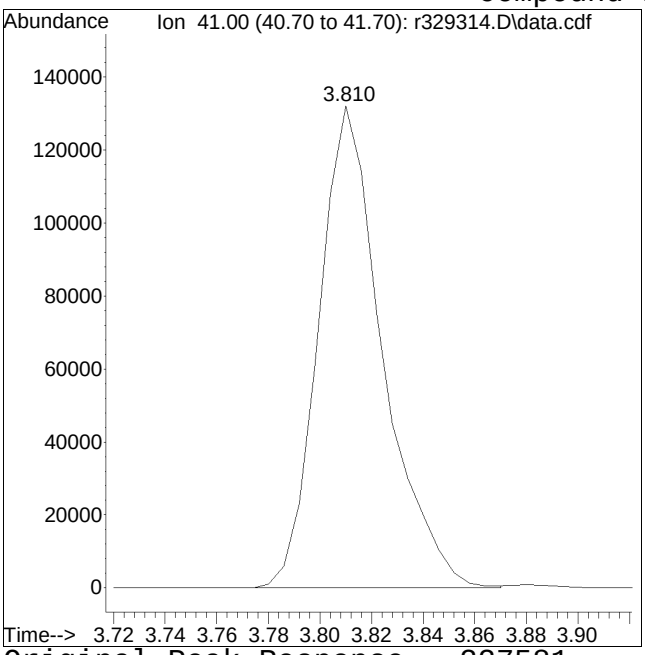


Manual Integration Report

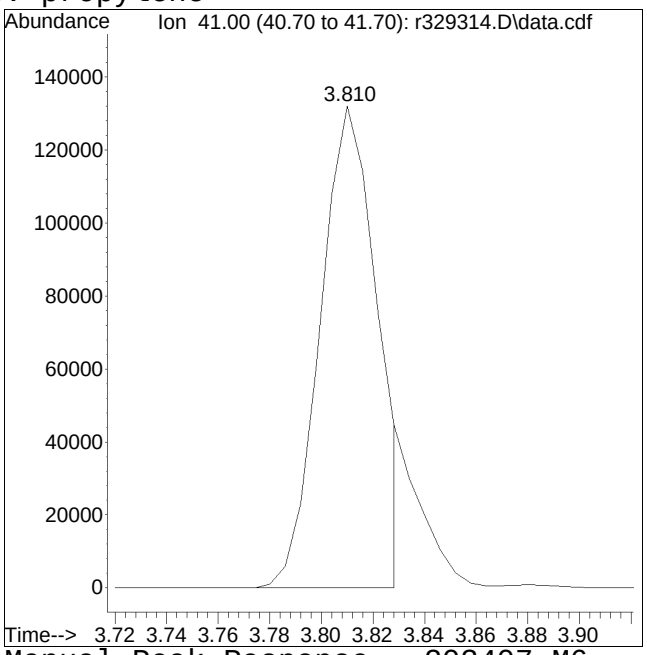
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329314.D
Date Inj'd : 2/25/2020 0:1: 1
Sample : WG1889054-3,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/25/2024 2:21 pm

Compound #3: propylene



Original Peak Response = 227581



Manual Peak Response = 203407 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738922.D
Acq On : 24 Feb 2024 9:06 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-5,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:57:47 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	326614	10.000	ppbV	0.00
Standard Area = 362386			Recovery =	90.13%		
43) 1,4-difluorobenzene	11.077	114	835700	10.000	ppbV	0.00
Standard Area = 978676			Recovery =	85.39%		
67) chlorobenzene-D5	15.833	54	125002	10.000	ppbV	0.00
Standard Area = 144285			Recovery =	86.64%		
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.868	85	17260	0.558	ppbV	100
6) chloromethane	4.024	50	8560	0.520	ppbV	92
7) Freon-114	4.120		0	N.D.		
10) 1,3-butadiene	4.378		0	N.D.		
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	4.942	31	86867	6.214	ppbV	97
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.447	43	108394M6	5.451	ppbV	
21) trichlorofluoromethane	5.630	101	5996	0.245	ppbV	93
22) isopropyl alcohol	5.720	45	15152	0.586	ppbV	98
27) tertiary butyl alcohol	6.384	59	2350	0.078	ppbV #	52
28) methylene chloride	6.450	49	8683	0.397	ppbV	99
29) 3-chloropropene	6.462		0	N.D.		
30) carbon disulfide	6.756		0	N.D.		
31) Freon 113	6.756	101	2369	0.075	ppbV	91
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	8.175	43	10535	0.264	ppbV	100
38) Ethyl Acetate	0.000		0	N.D.		
39) chloroform	8.992		0	N.D.		
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.833		0	N.D.		
44) hexane	8.908	57	1672	0.060	ppbV #	5
50) benzene	10.643	78	8947	0.144	ppbV	98
53) cyclohexane	10.963		0	N.D.		
56) 1,2-dichloropropane	0.000		0	N.D.		
57) bromodichloromethane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738922.D
Acq On : 24 Feb 2024 9:06 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-5,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:57:47 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224T\r1738913.D
Sub List : TO15-NY-7-SIM - .

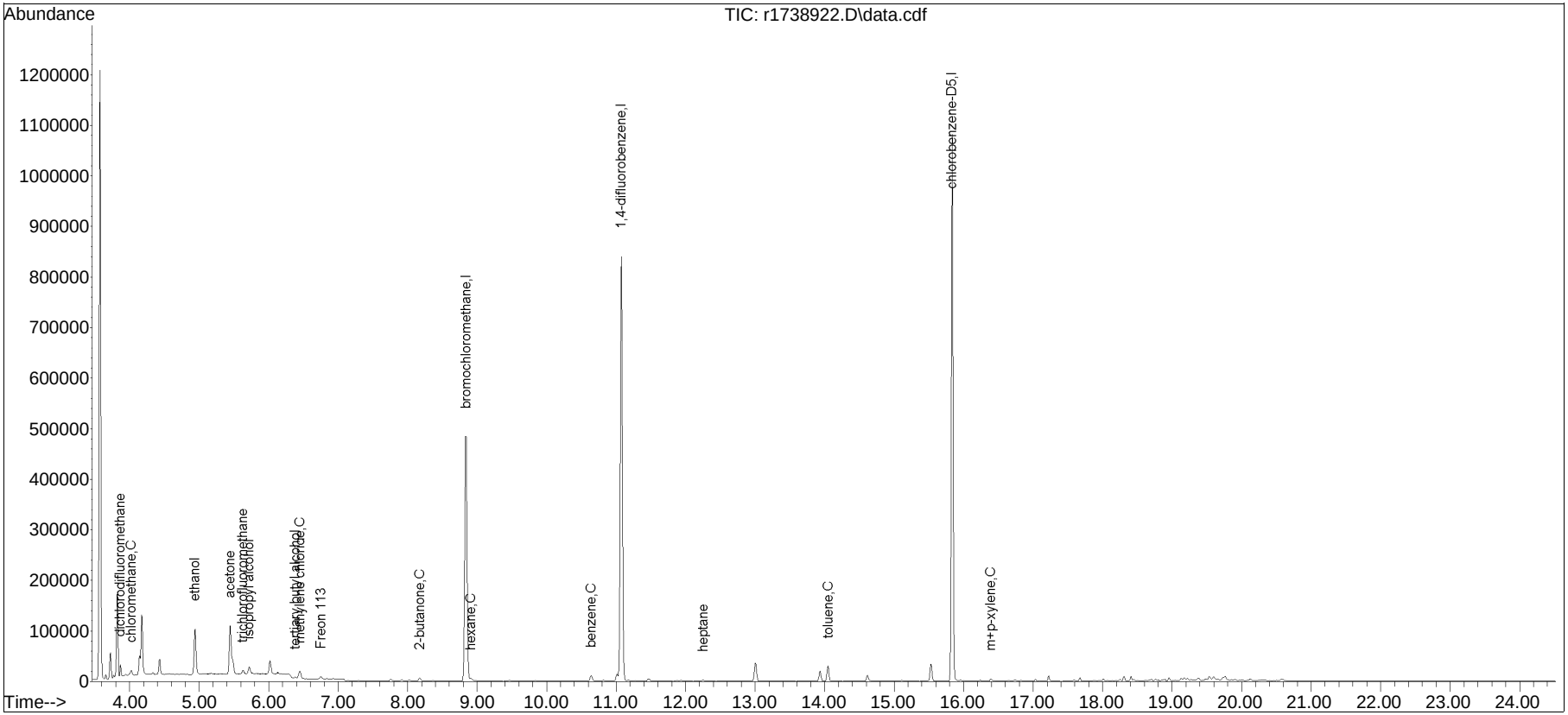
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,4-dioxane	0.000		0	N.D.		
60) 2,2,4-trimethylpentane	11.937		0	N.D.		
62) heptane	12.250	43	1453	0.037	ppbV #	87
63) cis-1,3-dichloropropene	0.000		0	N.D.		
64) 4-methyl-2-pentanone	13.000		0	N.D.		
65) trans-1,3-dichloropropene	0.000		0	N.D.		
66) 1,1,2-trichloroethane	0.000		0	N.D.		
68) toluene	14.050	91	24805	0.361	ppbV	99
72) 2-hexanone	14.325		0	N.D.		
74) dibromochloromethane	0.000		0	N.D.		
75) 1,2-dibromoethane	0.000		0	N.D.		
80) chlorobenzene	0.000		0	N.D.		
81) ethylbenzene	16.233		0	N.D.		
83) m+p-xylene	16.392	91	4629	0.067	ppbV	99
84) bromoform	0.000		0	N.D.		
85) styrene	16.725		0	N.D.		
86) 1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87) o-xylene	16.825		0	N.D.		
96) 4-ethyl toluene	17.875		0	N.D.		
97) 1,3,5-trimethylbenzene	17.967		0	N.D.		
99) 1,2,4-trimethylbenzene	18.317		0	N.D.		
101) Benzyl Chloride	18.308		0	N.D.		
102) 1,3-dichlorobenzene	0.000		0	N.D.		
103) 1,4-dichlorobenzene	0.000		0	N.D.		
107) 1,2-dichlorobenzene	0.000		0	N.D.		
115) 1,2,4-trichlorobenzene	0.000		0	N.D.		
119) hexachlorobutadiene	0.000		0	N.D.		

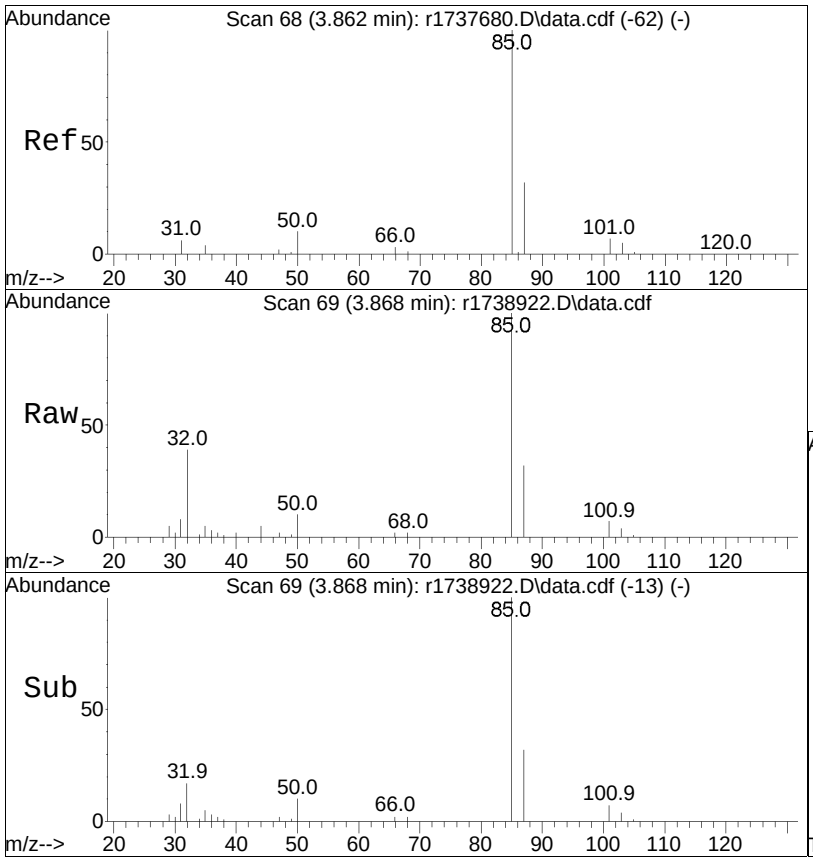
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airlab17\2024\02\0224T\r1738913.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224T\
Data File : r1738922.D
Acq On : 24 Feb 2024 9:06 PM
Operator : AIRLAB17:TJS
Sample : WG1888881-5,3,250,250
Misc : WG1888881,ICAL20743
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:57:47 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224T\TFS17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:04:31 2024
Response via : Initial Calibration

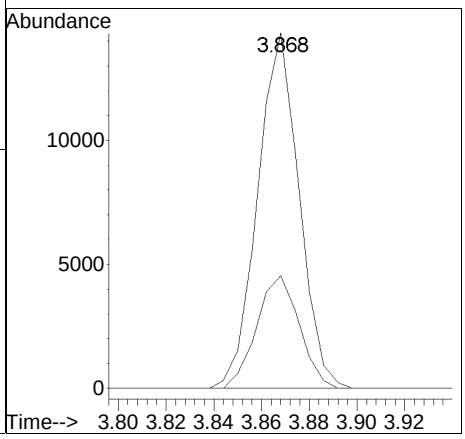


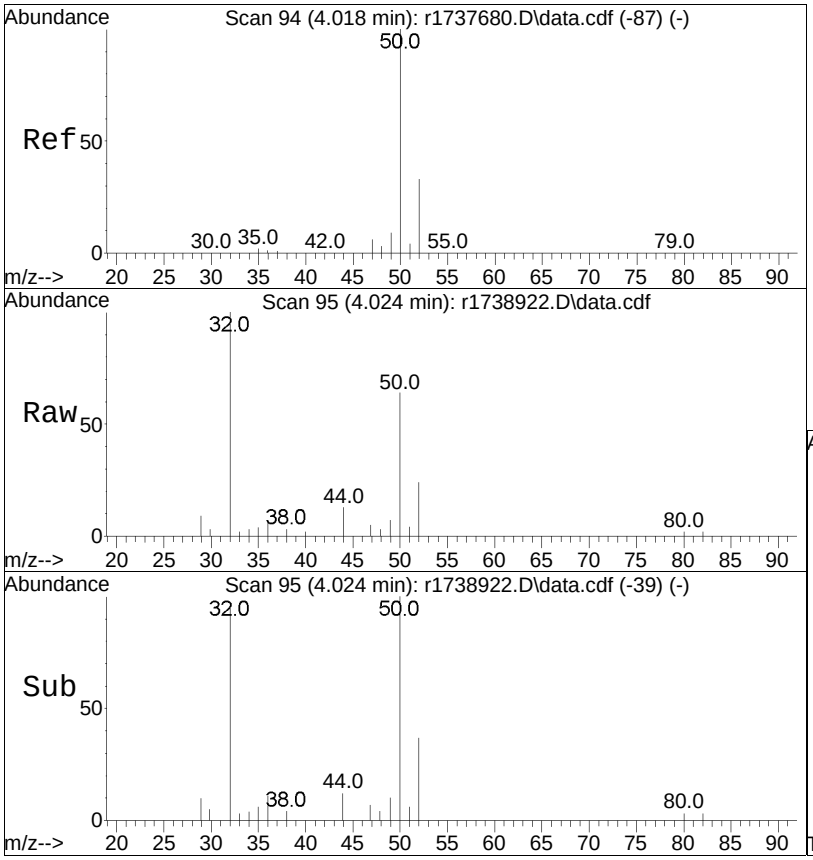


#5
dichlorodifluoromethane
Concen: 0.56 ppbV
RT: 3.868 min Scan# 69
Delta R.T. 0.006 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 85 Resp: 17260

Ion	Ratio	Lower	Upper
85	100		
87	31.7	25.4	38.0

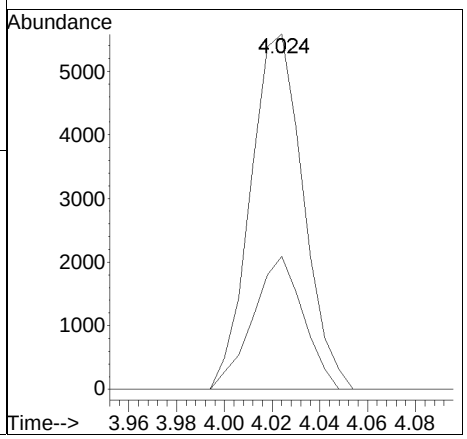


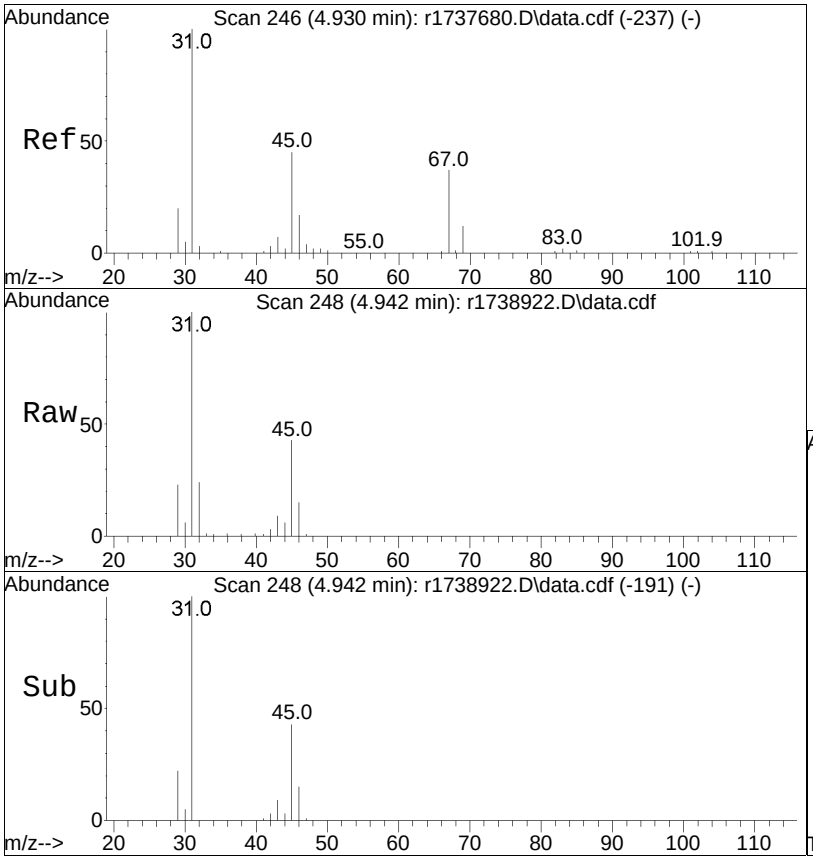


#6
chloromethane
Concen: 0.52 ppbV
RT: 4.024 min Scan# 95
Delta R.T. 0.006 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 50 Resp: 8560

Ion	Ratio	Lower	Upper
50	100		
52	37.4	26.4	39.6

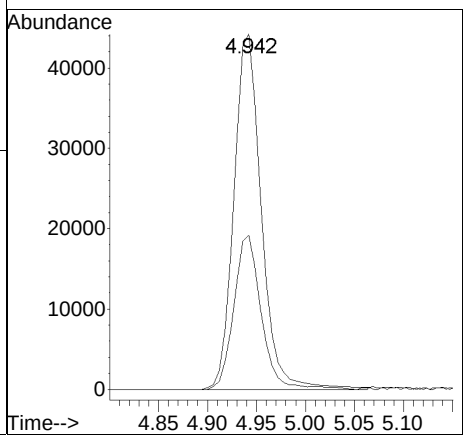


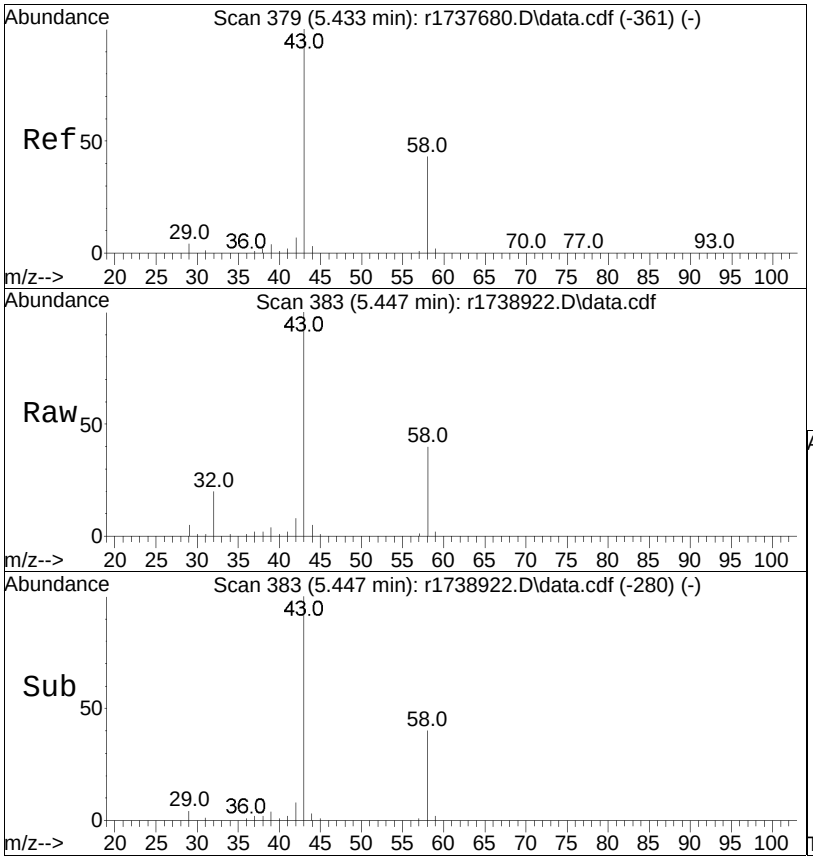


#15
ethanol
Concen: 6.21 ppbV
RT: 4.942 min Scan# 248
Delta R.T. 0.012 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 31 Resp: 86867

Ion	Ratio	Lower	Upper
31	100		
45	43.4	36.3	54.5

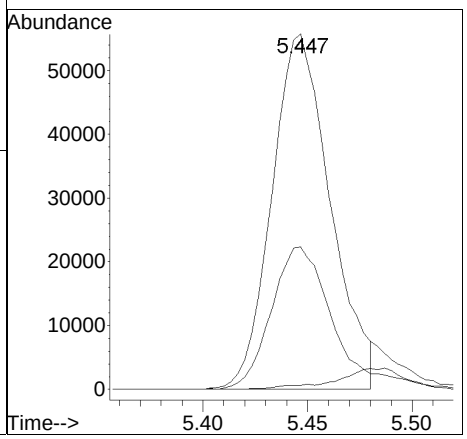


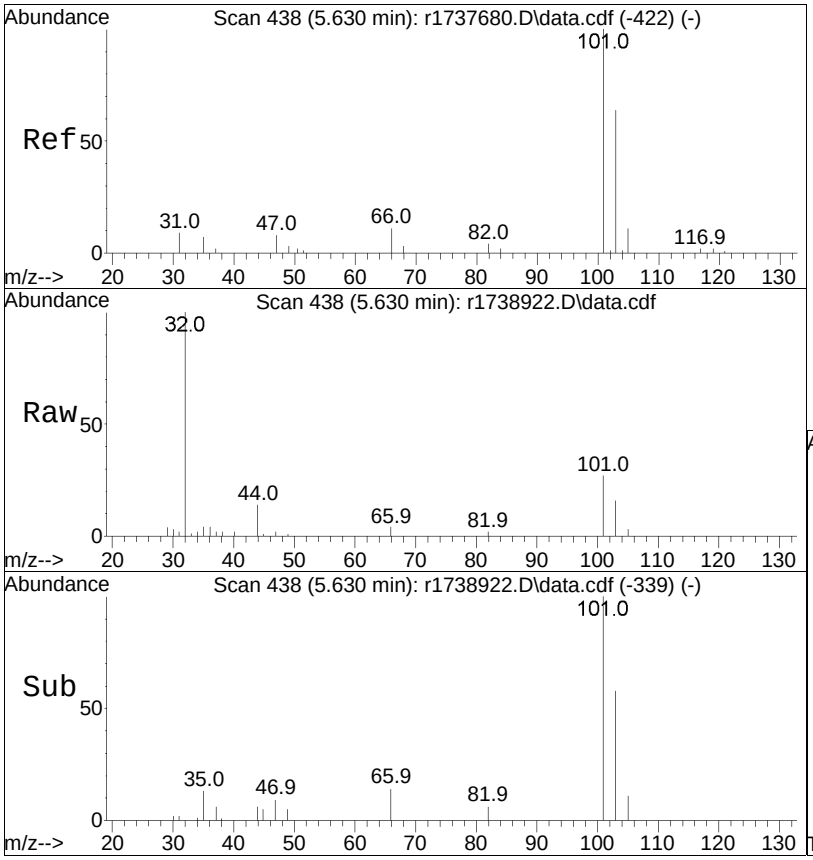


#19
acetone
Concen: 5.45 ppbV m
RT: 5.447 min Scan# 383
Delta R.T. 0.013 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 43 Resp: 108394

Ion	Ratio	Lower	Upper
43	100		
58	40.1	34.0	51.0
57	1.1	0.9	1.3

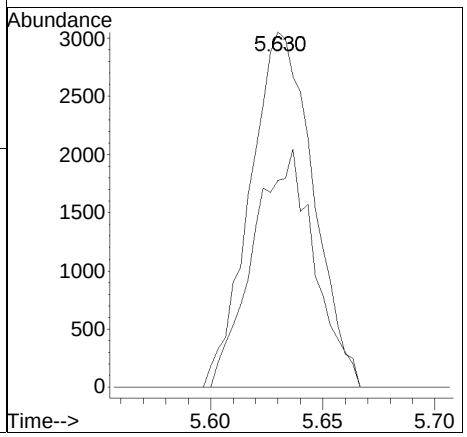


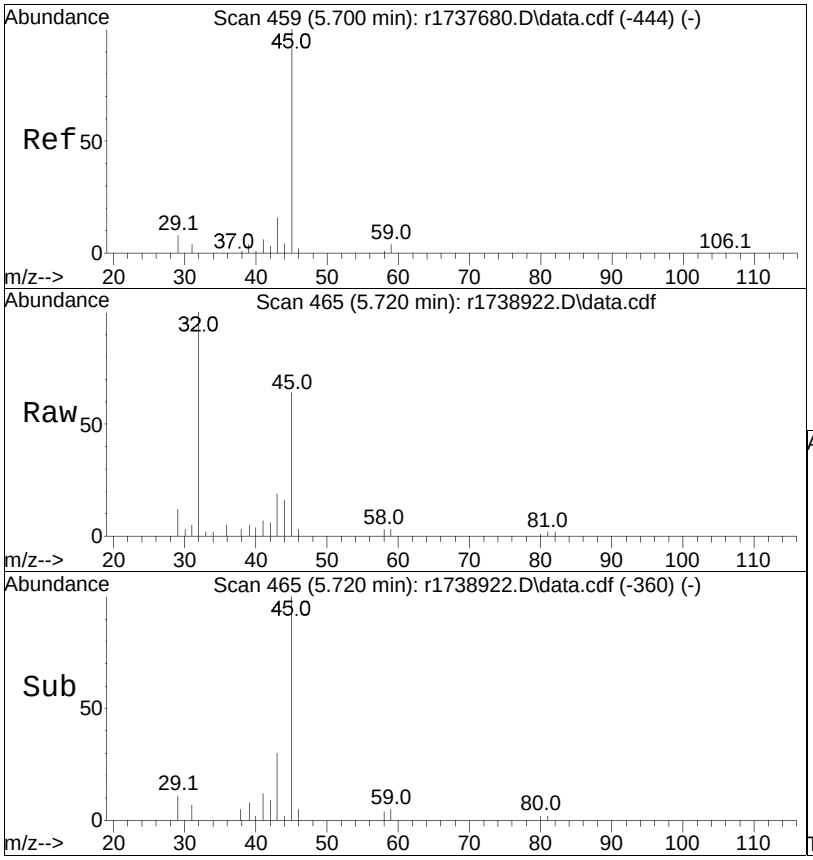


#21
trichlorofluoromethane
Concen: 0.24 ppbV
RT: 5.630 min Scan# 438
Delta R.T. 0.000 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion:101 Resp: 5996

Ion	Ratio	Lower	Upper
101	100		
103	58.3	51.2	76.8

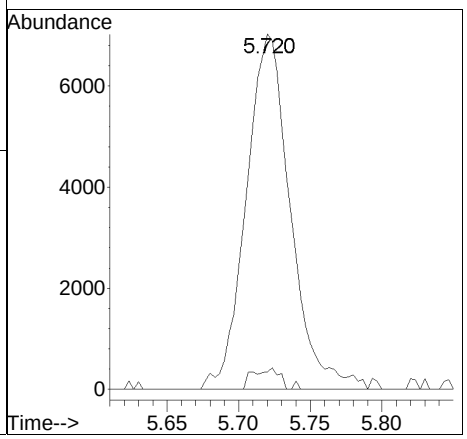


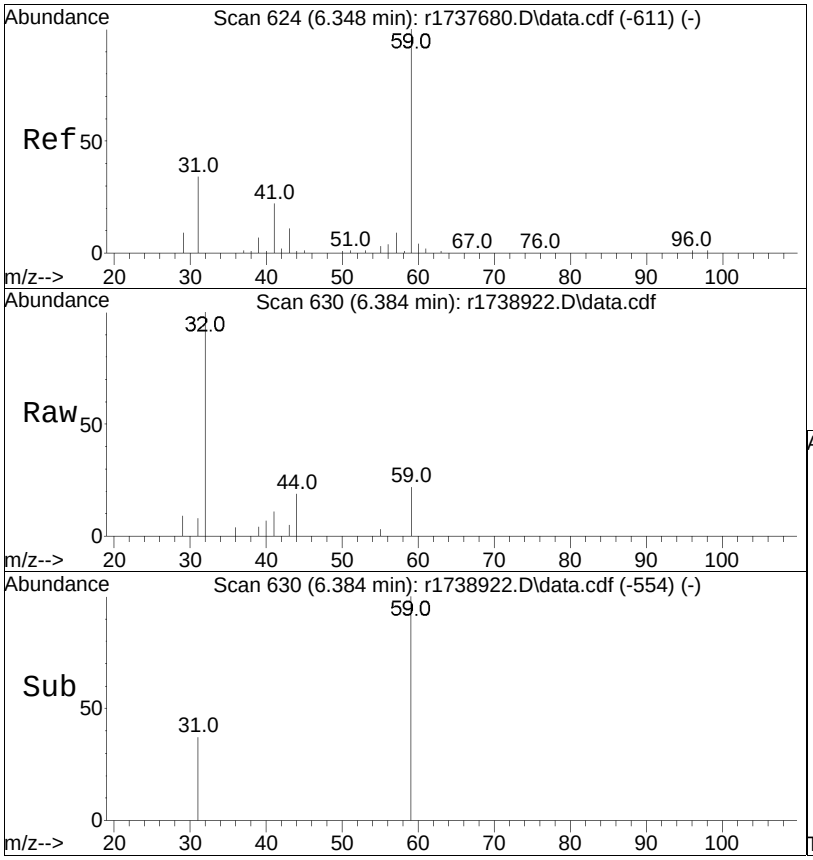


#22
isopropyl alcohol
Concen: 0.59 ppbV
RT: 5.720 min Scan# 465
Delta R.T. 0.020 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 45 Resp: 15152

Ion	Ratio	Lower	Upper
45	100		
59	4.9	3.4	5.2

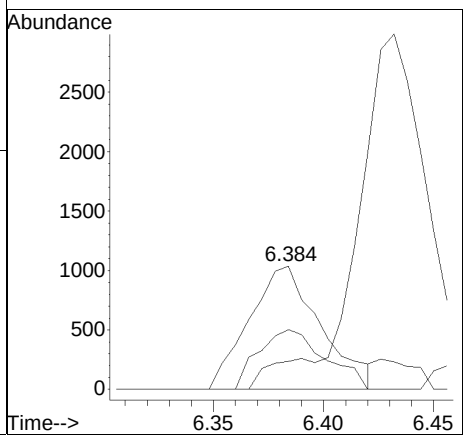


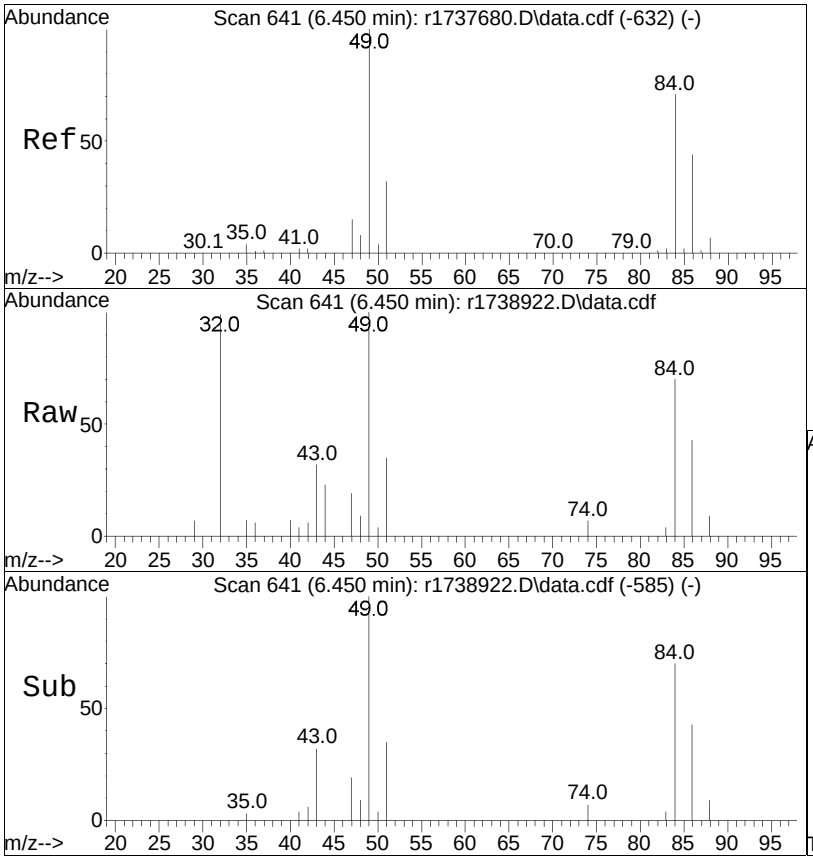


#27
tertiary butyl alcohol
Concen: 0.08 ppbV
RT: 6.384 min Scan# 630
Delta R.T. 0.036 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 59 Resp: 2350

Ion	Ratio	Lower	Upper
59	100		
41	48.5	17.5	26.3#
43	22.8	8.7	13.1#

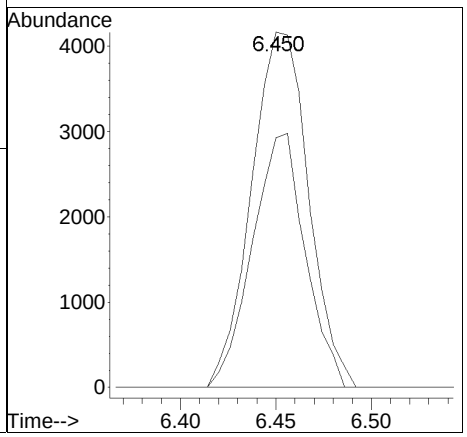


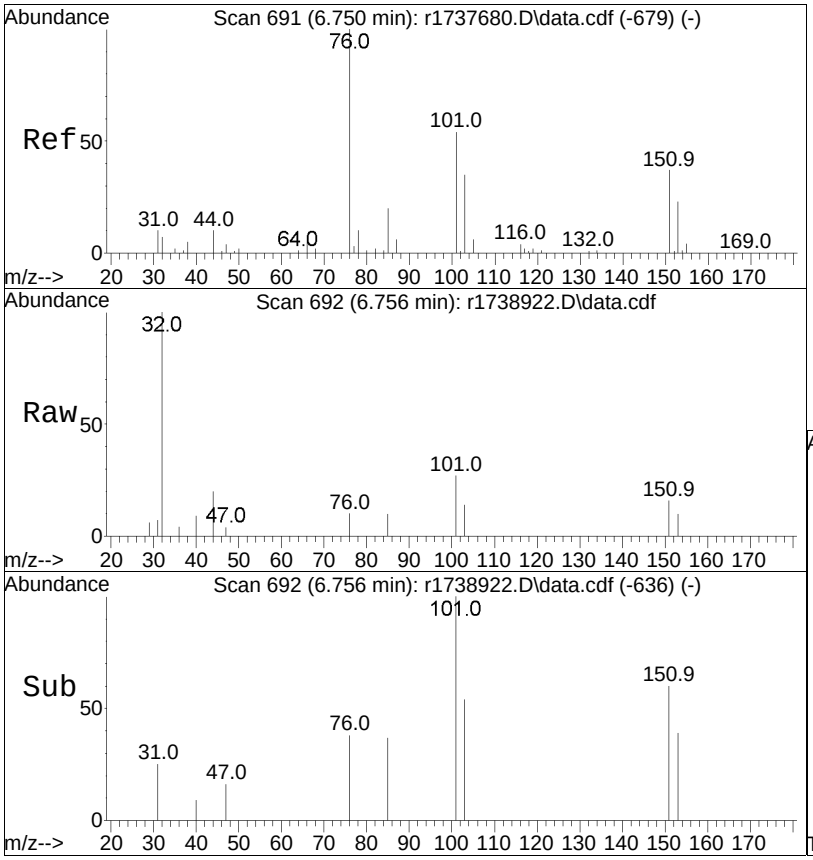


#28
methylene chloride
Concen: 0.40 ppbV
RT: 6.450 min Scan# 641
Delta R.T. 0.000 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 49 Resp: 8683

Ion	Ratio	Lower	Upper
49	100		
84	70.3	56.7	85.1

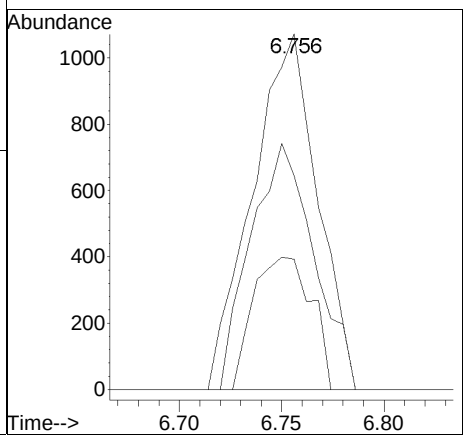


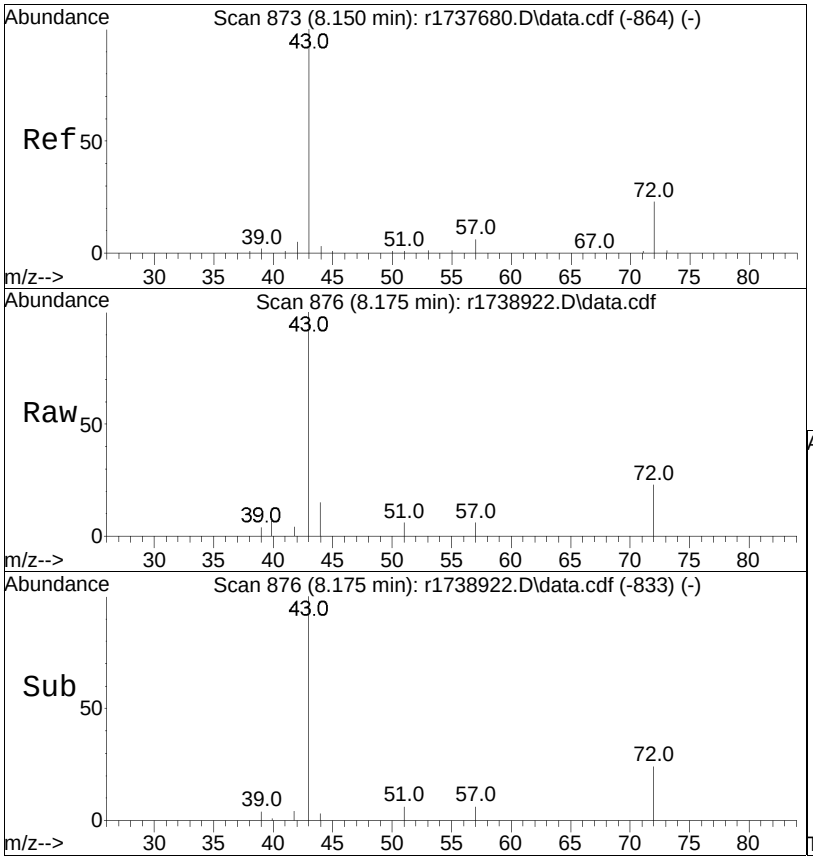


#31
Freon 113
Concen: 0.07 ppbV
RT: 6.756 min Scan# 692
Delta R.T. 0.006 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion:101 Resp: 2369

Ion	Ratio	Lower	Upper
101	100		
85	36.7	30.5	45.7
151	60.2	56.0	84.0

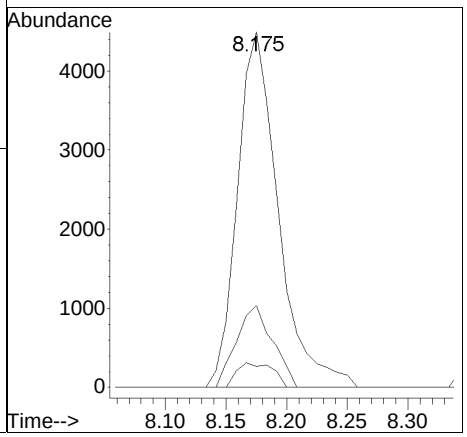


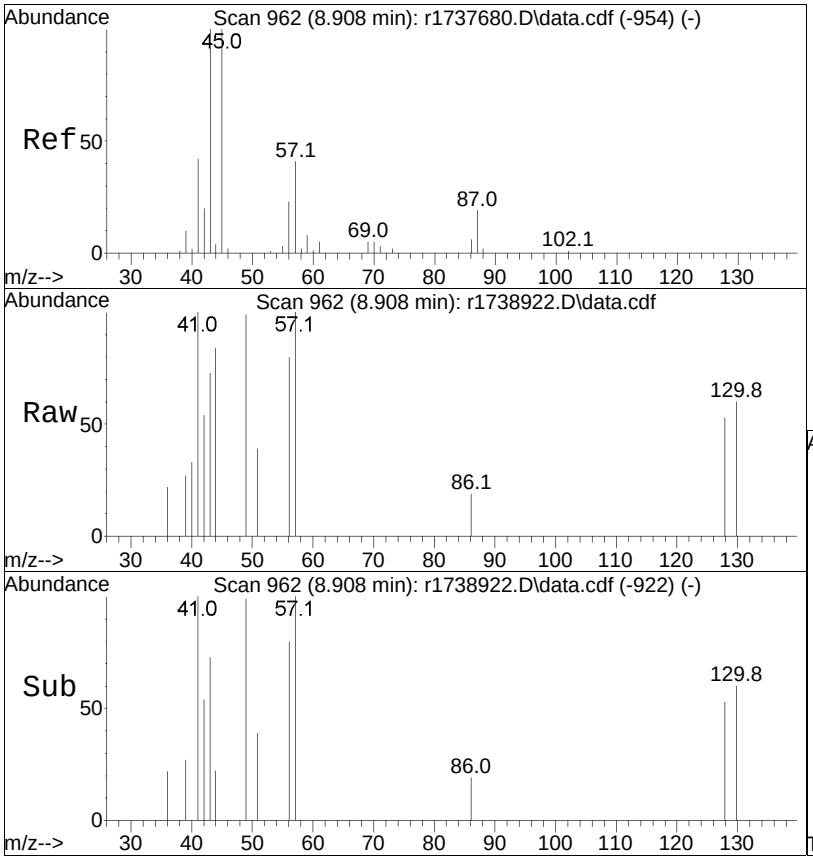


#36
2-butanone
Concen: 0.26 ppbV
RT: 8.175 min Scan# 876
Delta R.T. 0.025 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 43 Resp: 10535

Ion	Ratio	Lower	Upper
43	100		
72	23.0	18.3	27.5
57	5.9	5.0	7.6

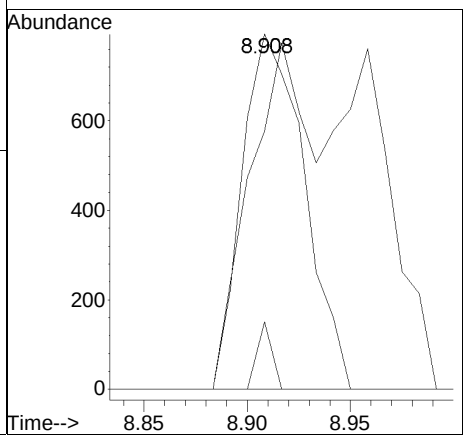


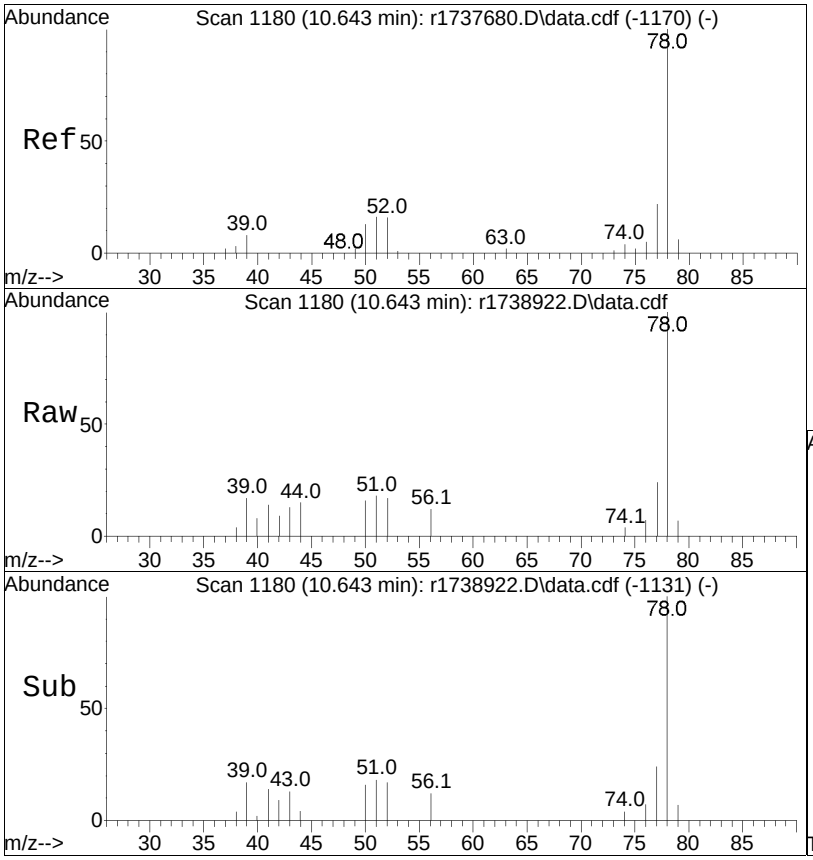


#44
hexane
Concen: 0.06 ppbV
RT: 8.908 min Scan# 962
Delta R.T. 0.000 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 57 Resp: 1672

Ion	Ratio	Lower	Upper
57	100		
43	72.7	197.0	295.6#
86	19.0	12.6	19.0#

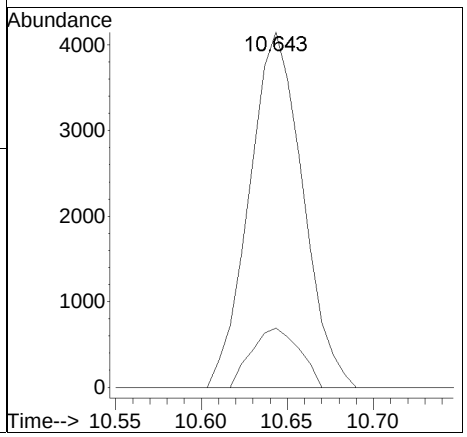


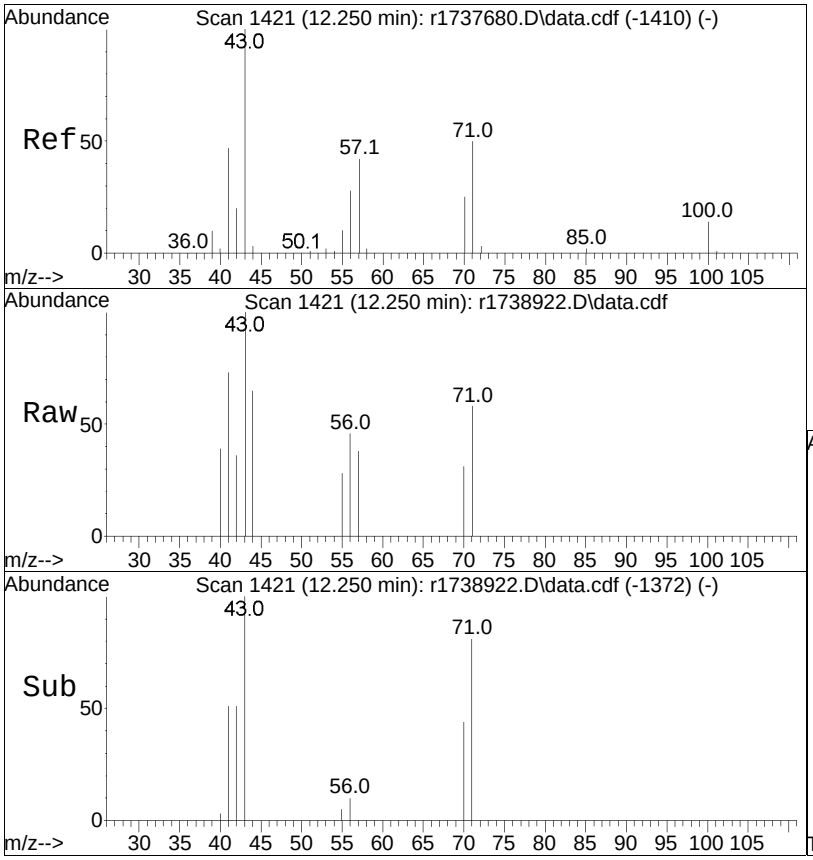


#50
benzene
Concen: 0.14 ppbV
RT: 10.643 min Scan# 1180
Delta R.T. 0.000 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 78 Resp: 8947

Ion	Ratio	Lower	Upper
78	100		
52	16.7	12.7	19.1

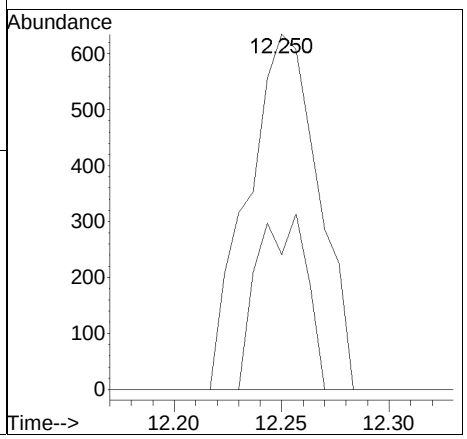


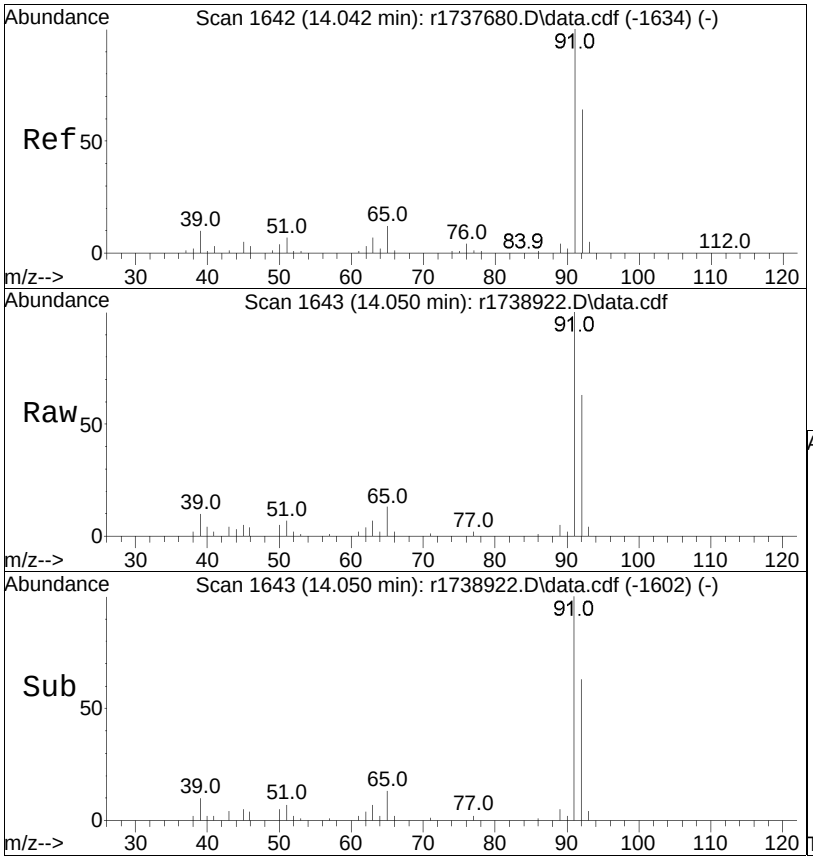


#62
heptane
Concen: 0.04 ppbV
RT: 12.250 min Scan# 1421
Delta R.T. 0.000 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 43 Resp: 1453

Ion	Ratio	Lower	Upper
43	100		
57	38.0	33.5	50.3
100	0.0	11.3	16.9#

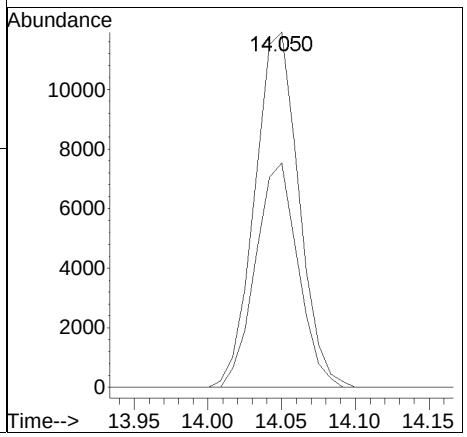


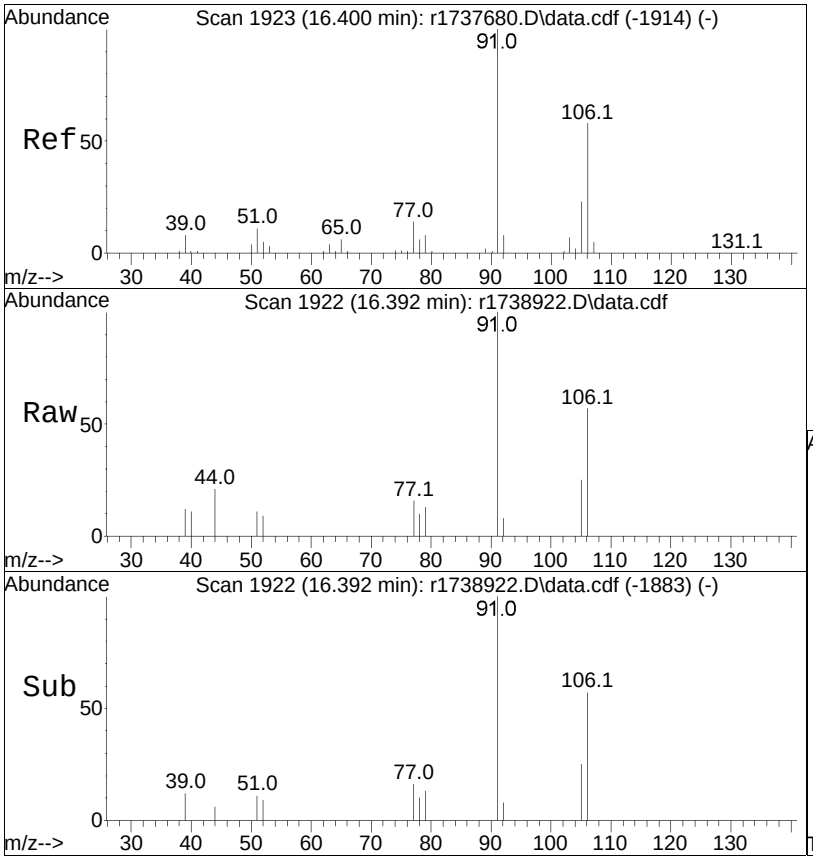


#68
toluene
Concen: 0.36 ppbV
RT: 14.050 min Scan# 1643
Delta R.T. 0.008 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 91 Resp: 24805

Ion	Ratio	Lower	Upper
91	100		
92	63.1	51.2	76.8

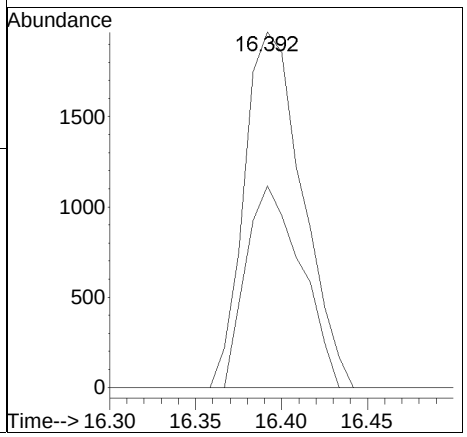




#83
m+p-xylene
Concen: 0.07 ppbV
RT: 16.392 min Scan# 1922
Delta R.T. -0.008 min
Lab File: r1738922.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 91 Resp: 4629

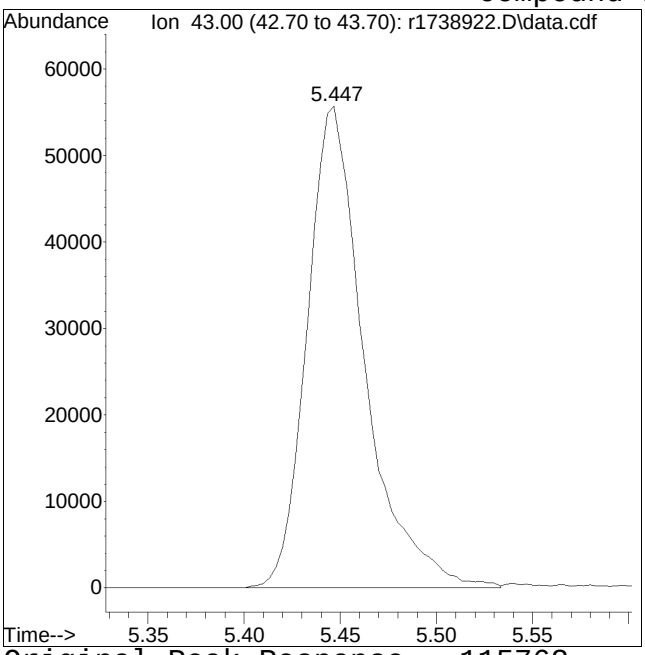
Ion	Ratio	Lower	Upper
91	100		
106	56.7	46.1	69.1



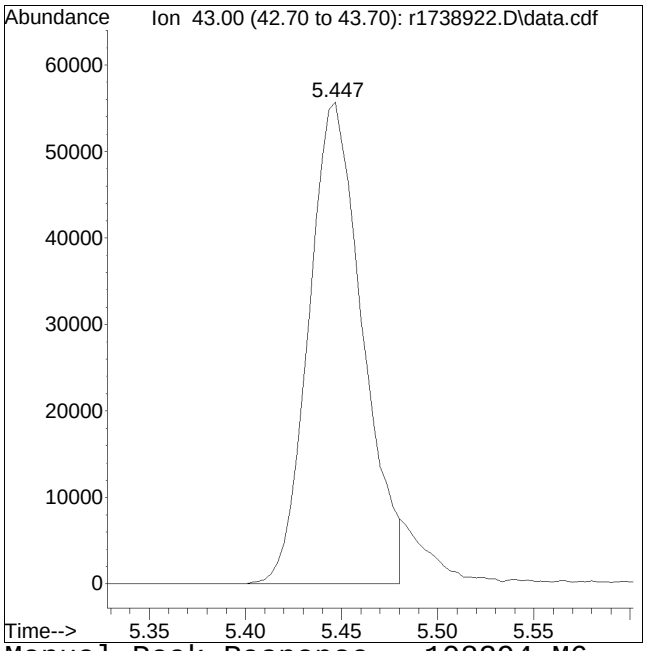
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TFS17_240107.M
Data File : r1738922.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2020 0:9: 6 Instrument :
Sample : WG1888881-5,3,250,250 Quant Date : 2/25/2024 6:57 am

Compound #19: acetone



Original Peak Response = 115762



Manual Peak Response = 108394 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329324.D
Acq On : 25 Feb 2024 11:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-5,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:10:26 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.950	49	229246	10.000	ppbV	-0.04
Standard Area = 280213			Recovery =		81.81%	
43) 1,4-difluorobenzene	11.180	114	596167	10.000	ppbV	-0.04
Standard Area = 768332			Recovery =		77.59%	
67) chlorobenzene-D5	15.917	54	114783	10.000	ppbV	#-0.03
Standard Area = 143122			Recovery =		80.20%	
System Monitoring Compounds						
Target Compounds						Qvalue
5) dichlorodifluoromethane	3.882	85	15261	0.572	ppbV	100
6) chloromethane	4.044	50	8083	0.614	ppbV	95
7) Freon-114	4.146		0	N.D.		
10) 1,3-butadiene	4.410	54	504	0.040	ppbV	81
13) bromomethane	0.000		0	N.D.		
14) chloroethane	0.000		0	N.D.		
15) ethanol	5.004	31	186754	20.446	ppbV	87
17) vinyl bromide	0.000		0	N.D.		
19) acetone	5.523	43	53416M6	2.186	ppbV	
21) trichlorofluoromethane	5.700	101	5676	0.204	ppbV	98
22) isopropyl alcohol	5.813	45	32795	1.100	ppbV	97
27) tertiary butyl alcohol	6.514		0	N.D.		
28) methylene chloride	6.538	49	6622	0.371	ppbV	88
29) 3-chloropropene	6.538		0	N.D.		
30) carbon disulfide	6.838		0	N.D.		
31) Freon 113	6.838	101	1616	0.052	ppbV #	91
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	8.292	43	4373	0.111	ppbV #	96
38) Ethyl Acetate	9.058	61	258	0.038	ppbV #	5
39) chloroform	9.100	83	1300	0.047	ppbV #	93
40) Tetrahydrofuran	0.000		0	N.D.	d	
42) 1,2-dichloroethane	9.933		0	N.D.		
44) hexane	9.017	57	3189	0.119	ppbV #	23
50) benzene	10.753	78	20104	0.410	ppbV #	91
53) cyclohexane	11.067	56	1249	0.044	ppbV	93
56) 1,2-dichloropropane	0.000		0	N.D.		

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329324.D
Acq On : 25 Feb 2024 11:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-5,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:10:26 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225T\r329314.D
Sub List : TO15-NY-7-SIM - .

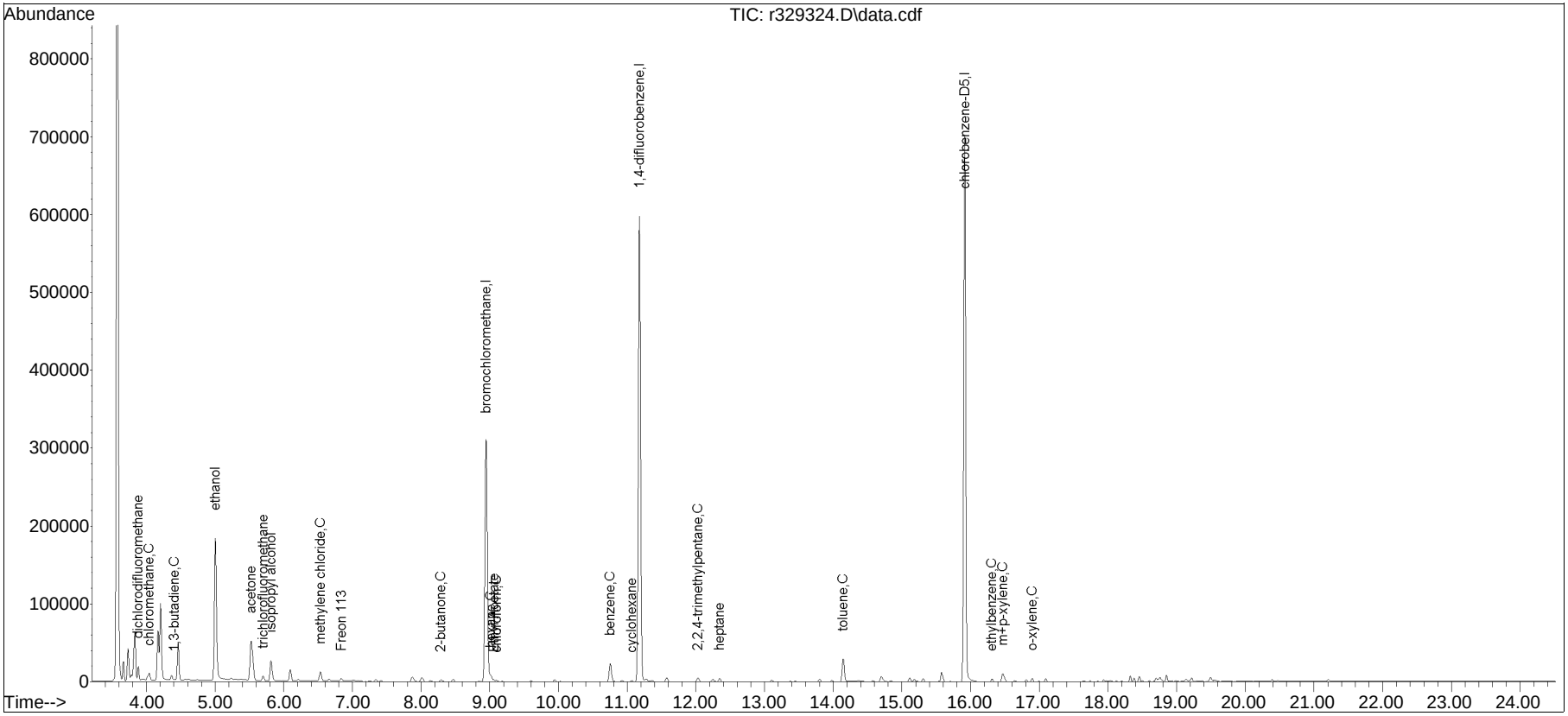
	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
57)	bromodichloromethane	0.000		0	N.D.		
58)	1,4-dioxane	0.000		0	N.D.		
60)	2,2,4-trimethylpentane	12.033	57	5603	0.062	ppbV #	88
62)	heptane	12.347	43	2272	0.071	ppbV #	87
63)	cis-1,3-dichloropropene	0.000		0	N.D.		
64)	4-methyl-2-pentanone	13.092		0	N.D.		
65)	trans-1,3-dichloropropene	0.000		0	N.D.		
66)	1,1,2-trichloroethane	0.000		0	N.D.		
68)	toluene	14.142	91	26978	0.341	ppbV	98
72)	2-hexanone	14.367		0	N.D.		
74)	dibromochloromethane	0.000		0	N.D.		
75)	1,2-dibromoethane	0.000		0	N.D.		
80)	chlorobenzene	0.000		0	N.D.		
81)	ethylbenzene	16.308	91	3902	0.040	ppbV	95
83)	m+p-xylene	16.467	91	10279	0.131	ppbV	90
84)	bromoform	0.000		0	N.D.		
85)	styrene	16.808		0	N.D.		
86)	1,1,2,2-tetrachloroethane	0.000		0	N.D.		
87)	o-xylene	16.900	91	3581	0.046	ppbV	93
96)	4-ethyl toluene	18.033		0	N.D.		
97)	1,3,5-trimethylbenzene	18.033		0	N.D.		
99)	1,2,4-trimethylbenzene	0.000		0	N.D.	d	
101)	Benzyl Chloride	18.375		0	N.D.		
102)	1,3-dichlorobenzene	18.575		0	N.D.		
103)	1,4-dichlorobenzene	18.575		0	N.D.		
107)	1,2-dichlorobenzene	18.867		0	N.D.		
115)	1,2,4-trichlorobenzene	0.000		0	N.D.		
119)	hexachlorobutadiene	0.000		0	N.D.		

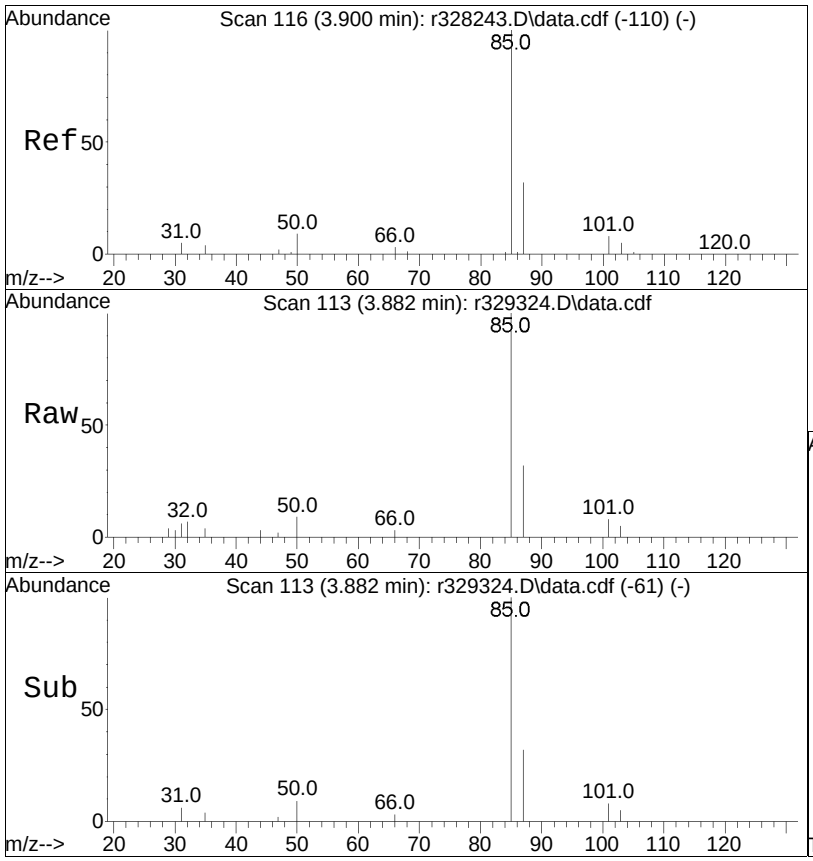
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TO15-NY-7-SIM - .\Airpiano3\2024\02\0225T\r329314.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225T\
Data File : r329324.D
Acq On : 25 Feb 2024 11:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889054-5,3,250,250
Misc : WG1889054,ICAL20782
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:10:26 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225T\TFS3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 18:15:30 2024
Response via : Initial Calibration

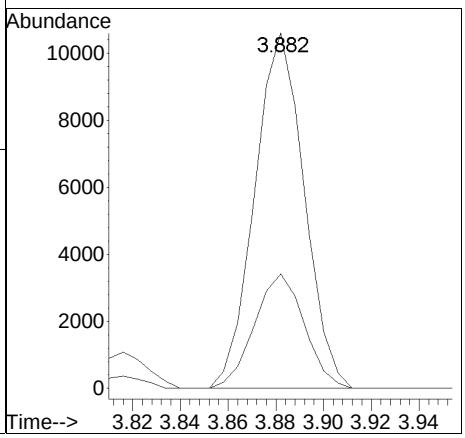


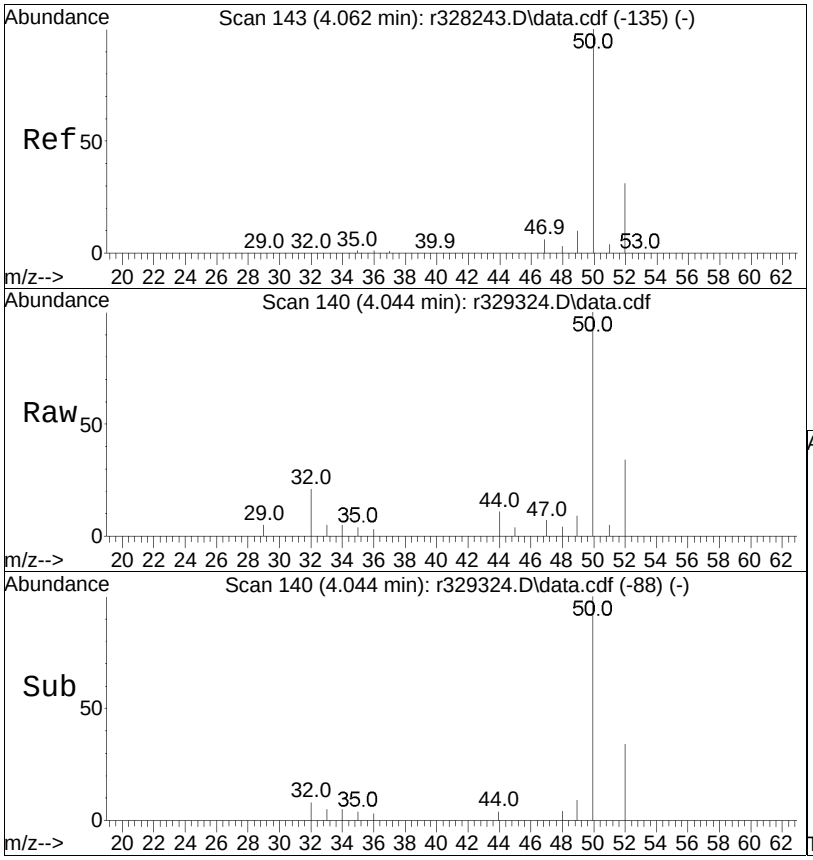


#5
dichlorodifluoromethane
Concen: 0.57 ppbV
RT: 3.882 min Scan# 113
Delta R.T. -0.018 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 85 Resp: 15261

Ion	Ratio	Lower	Upper
85	100		
87	32.2	25.7	38.5

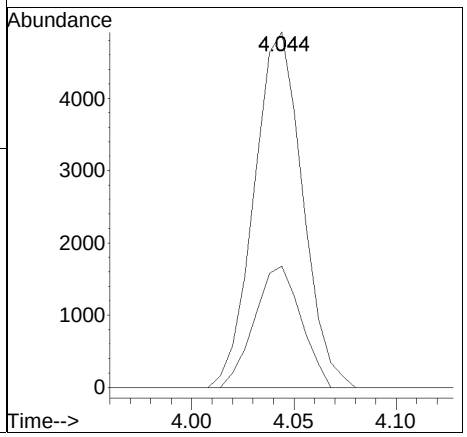


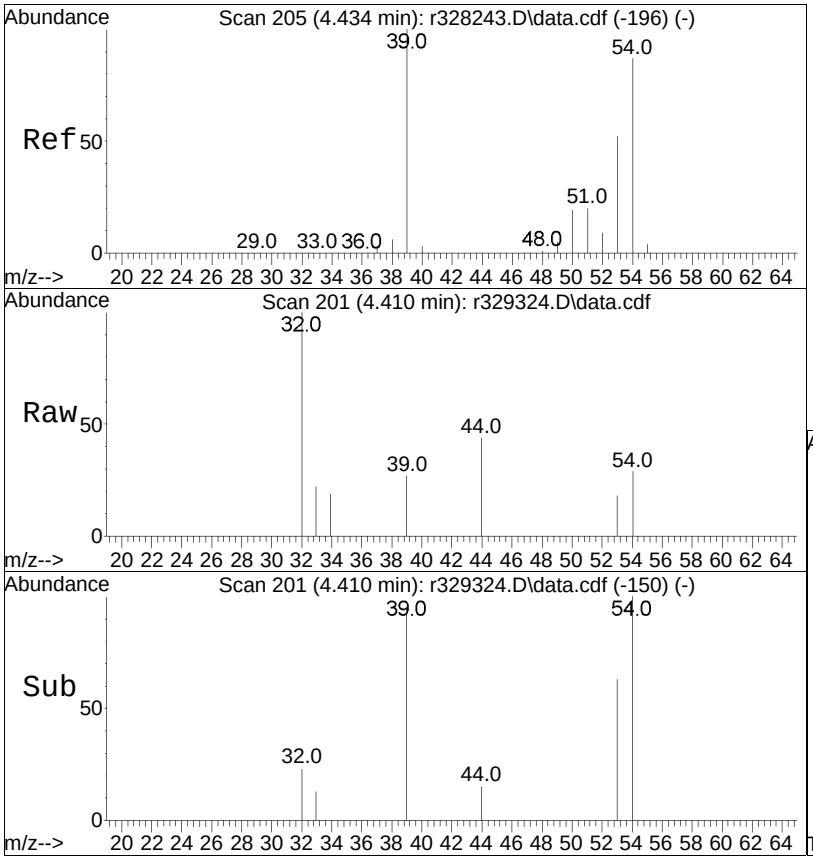


#6
chloromethane
Concen: 0.61 ppbV
RT: 4.044 min Scan# 140
Delta R.T. -0.018 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 50 Resp: 8083

Ion	Ratio	Lower	Upper
50	100		
52	34.2	25.0	37.6

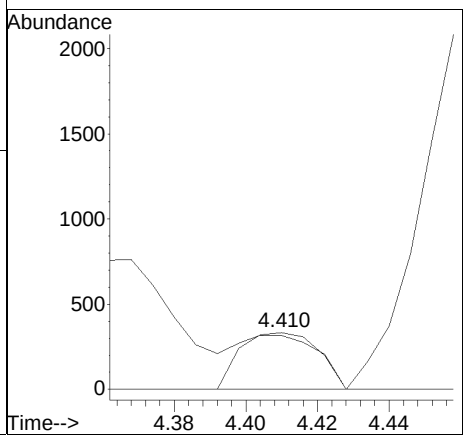


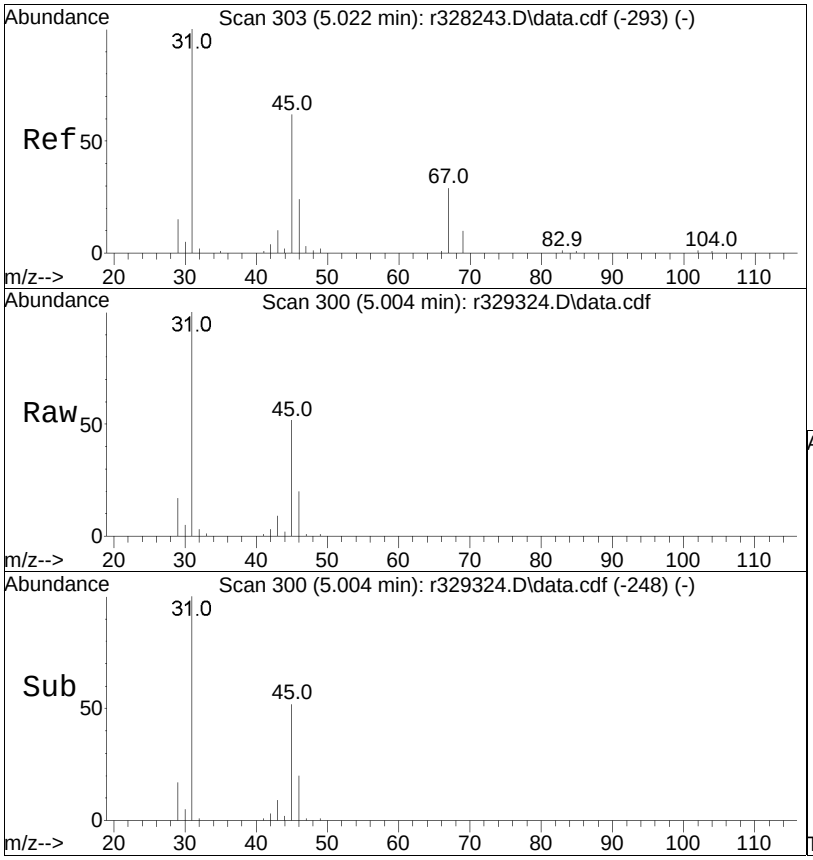


#10
1,3-butadiene
Concen: 0.04 ppbV
RT: 4.410 min Scan# 201
Delta R.T. -0.024 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 54 Resp: 504

Ion	Ratio	Lower	Upper
54	100		
39	94.9	92.3	138.5

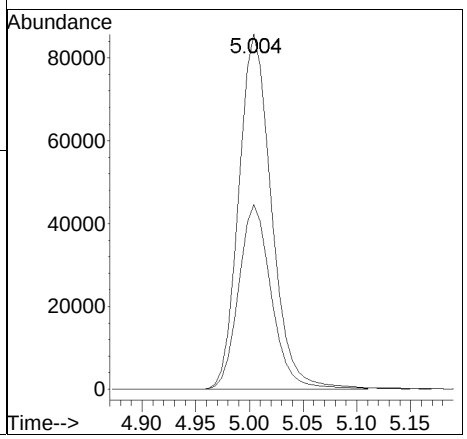


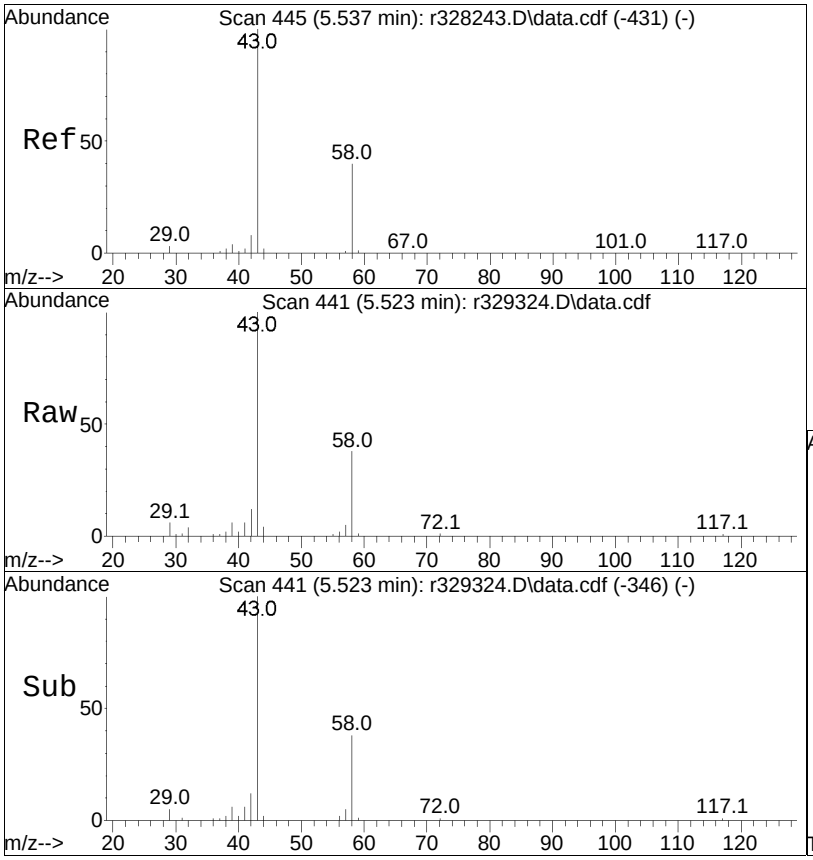


#15
ethanol
Concen: 20.45 ppbV
RT: 5.004 min Scan# 300
Delta R.T. -0.018 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 31 Resp: 186754

Ion	Ratio	Lower	Upper
31	100		
45	52.0	49.8	74.6

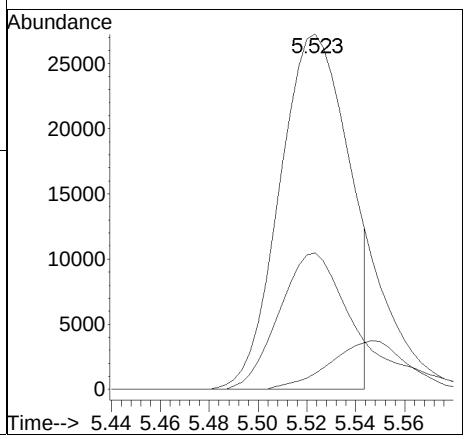


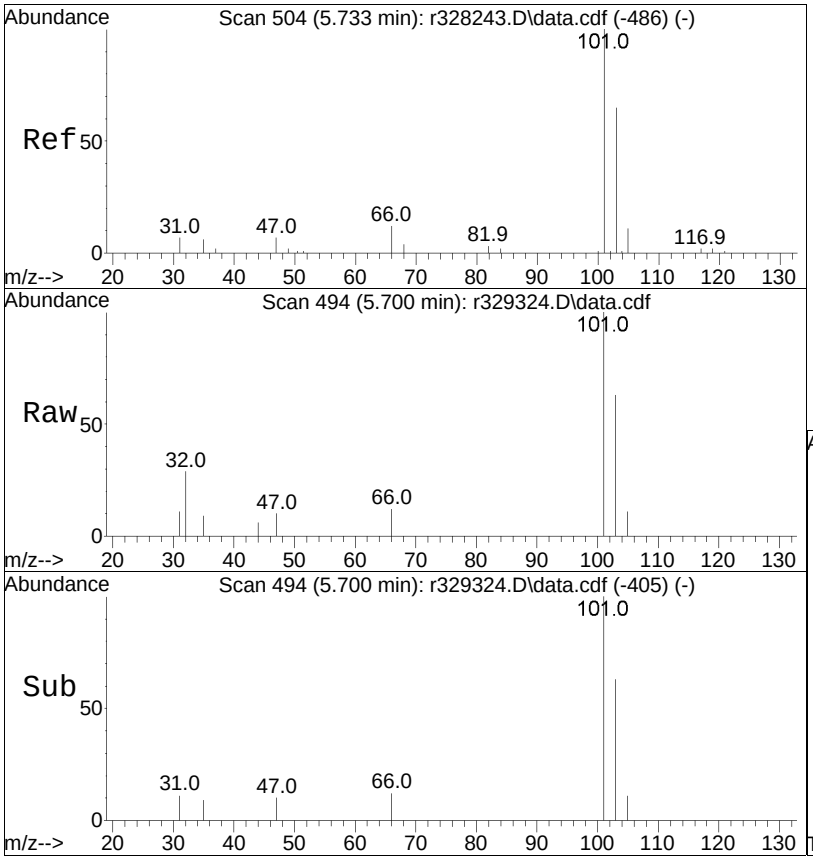


#19
acetone
Concen: 2.19 ppbV m
RT: 5.523 min Scan# 441
Delta R.T. -0.013 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 43 Resp: 53416

Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.9	47.9
57	4.5	0.9	1.3#

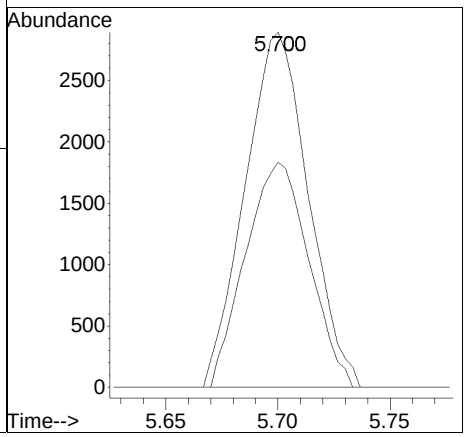


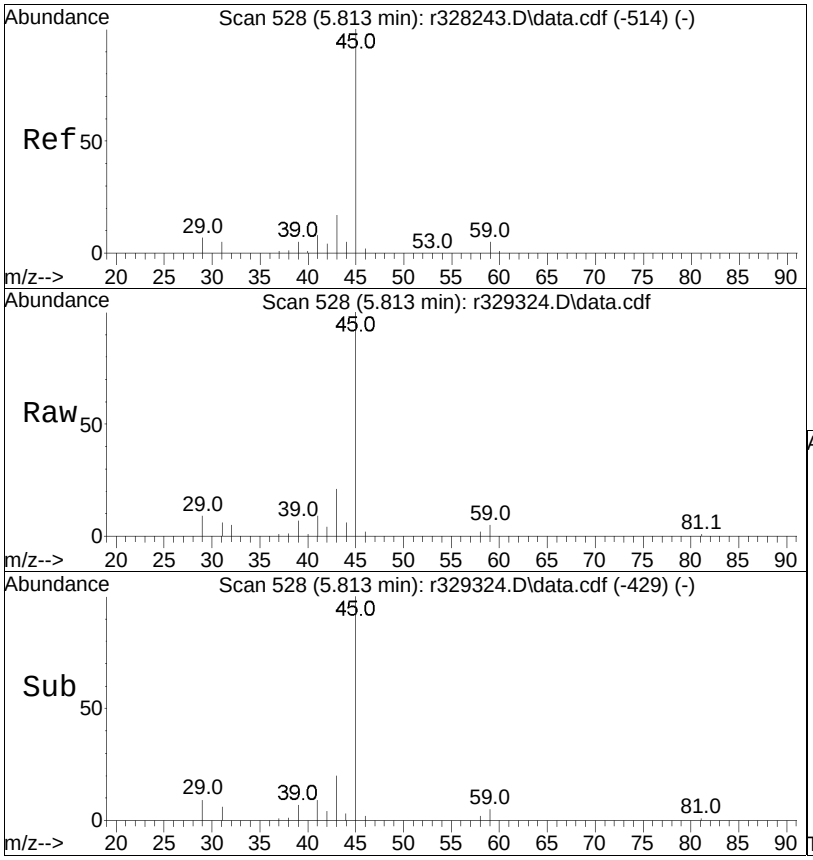


#21
trichlorofluoromethane
Concen: 0.20 ppbV
RT: 5.700 min Scan# 494
Delta R.T. -0.033 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion:101 Resp: 5676

Ion	Ratio	Lower	Upper
101	100		
103	63.4	51.7	77.5

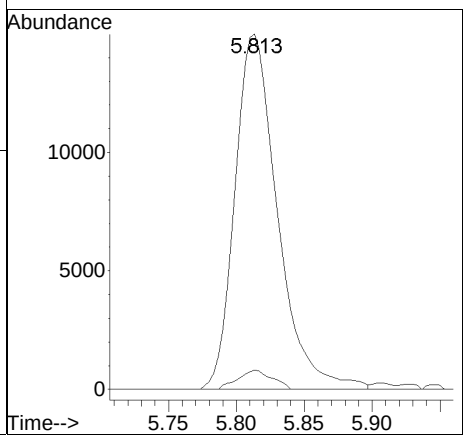


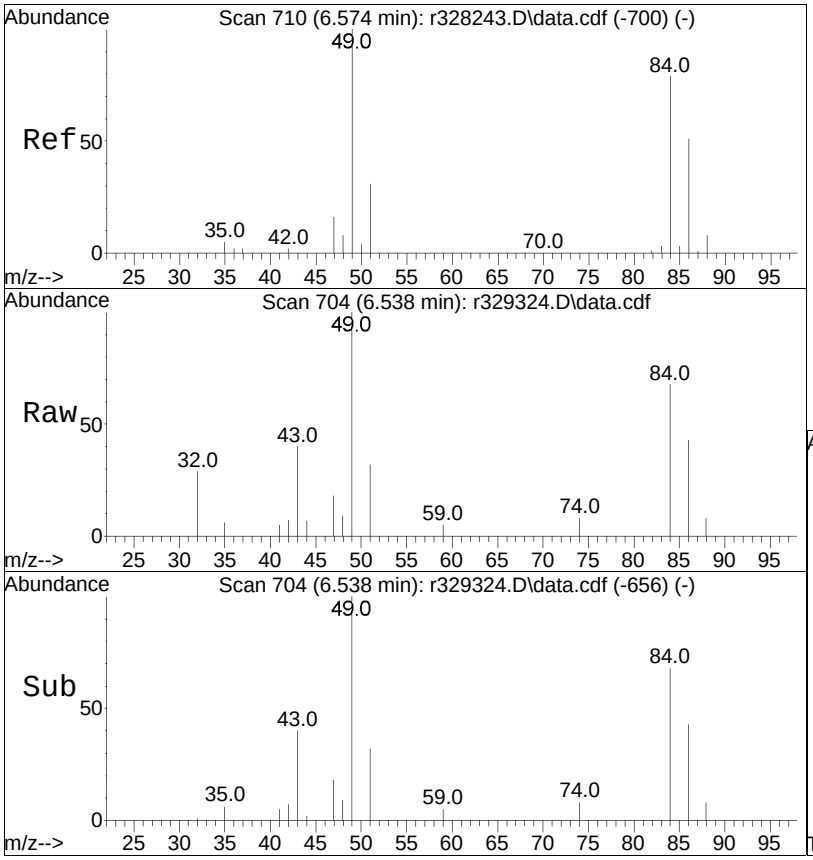


#22
isopropyl alcohol
Concen: 1.10 ppbV
RT: 5.813 min Scan# 528
Delta R.T. 0.000 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 45 Resp: 32795

Ion	Ratio	Lower	Upper
45	100		
59	5.5	3.7	5.5

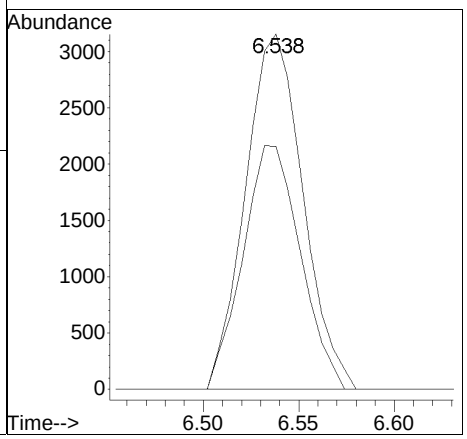


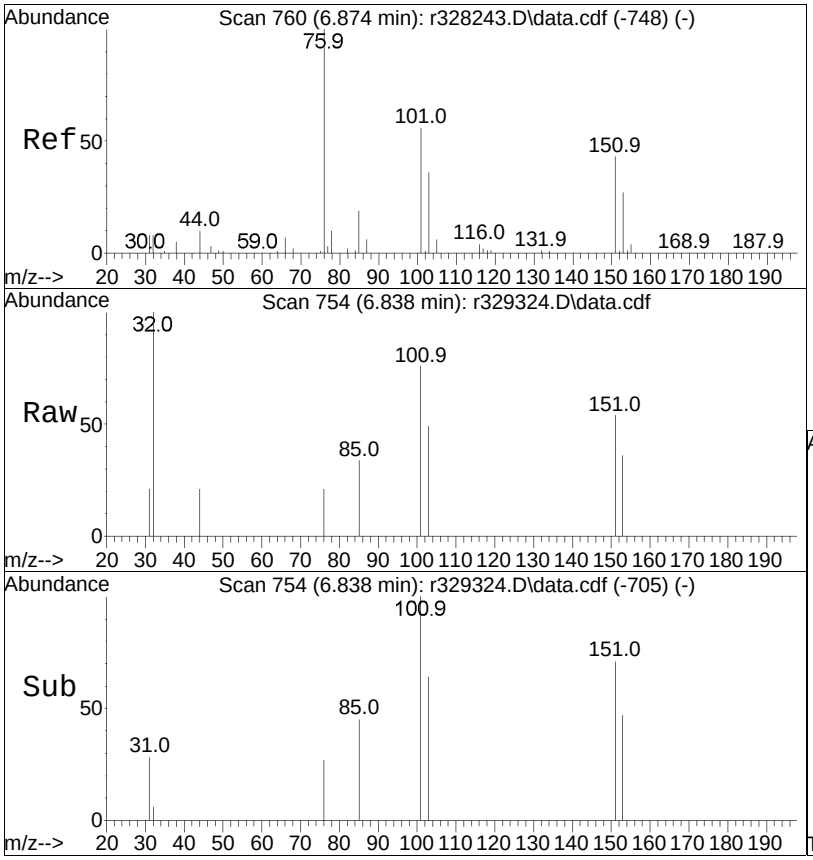


#28
methylene chloride
Concen: 0.37 ppbV
RT: 6.538 min Scan# 704
Delta R.T. -0.036 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 49 Resp: 6622

Ion	Ratio	Lower	Upper
49	100		
84	68.4	63.3	94.9

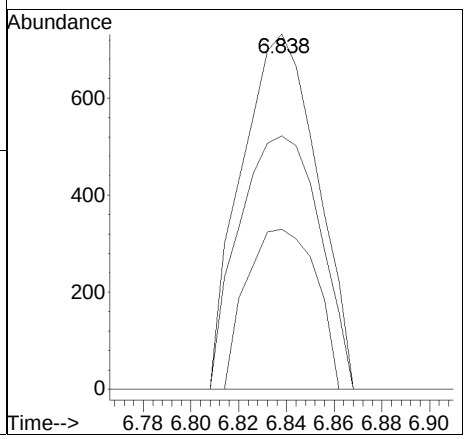


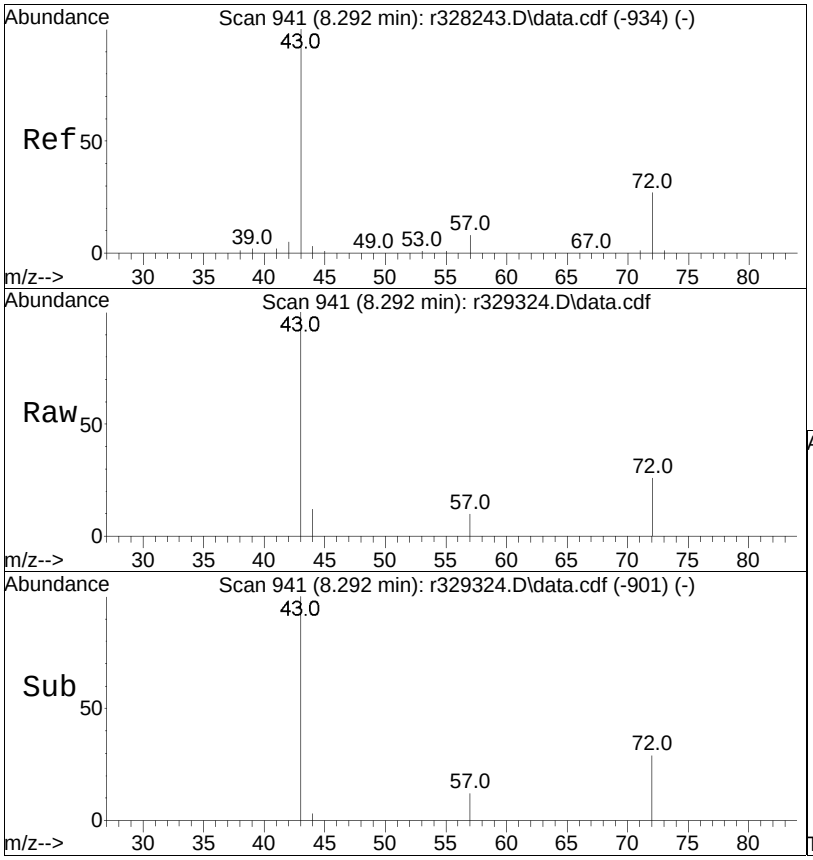


#31
Freon 113
Concen: 0.05 ppbV
RT: 6.838 min Scan# 754
Delta R.T. -0.036 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion:101 Resp: 1616

Ion	Ratio	Lower	Upper
101	100		
85	45.1	27.9	41.9#
151	71.3	61.0	91.4

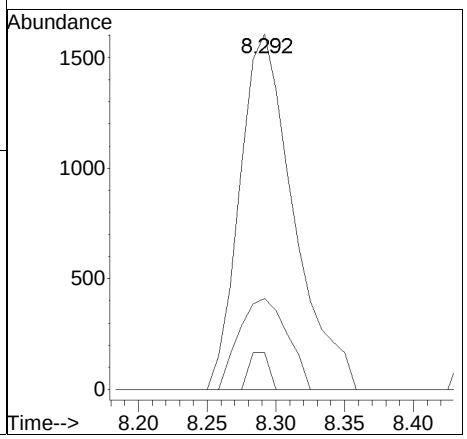


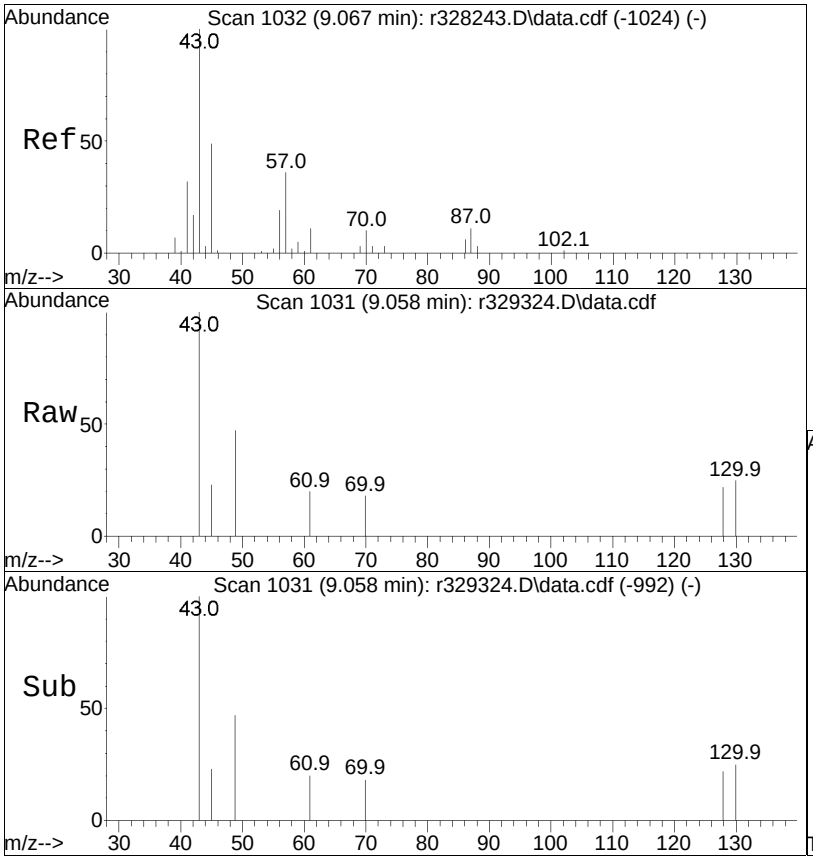


#36
2-butanone
Concen: 0.11 ppbV
RT: 8.292 min Scan# 941
Delta R.T. 0.000 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 43 Resp: 4373

Ion	Ratio	Lower	Upper
43	100		
72	25.6	21.9	32.9
57	10.3	6.6	9.8#

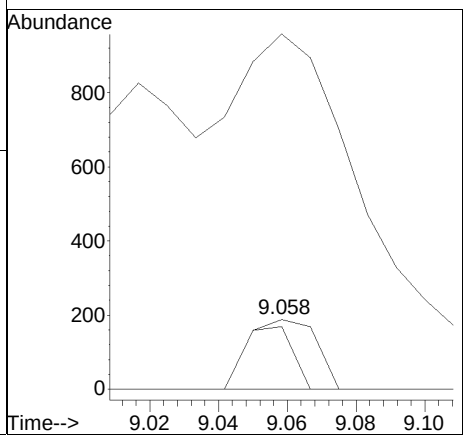


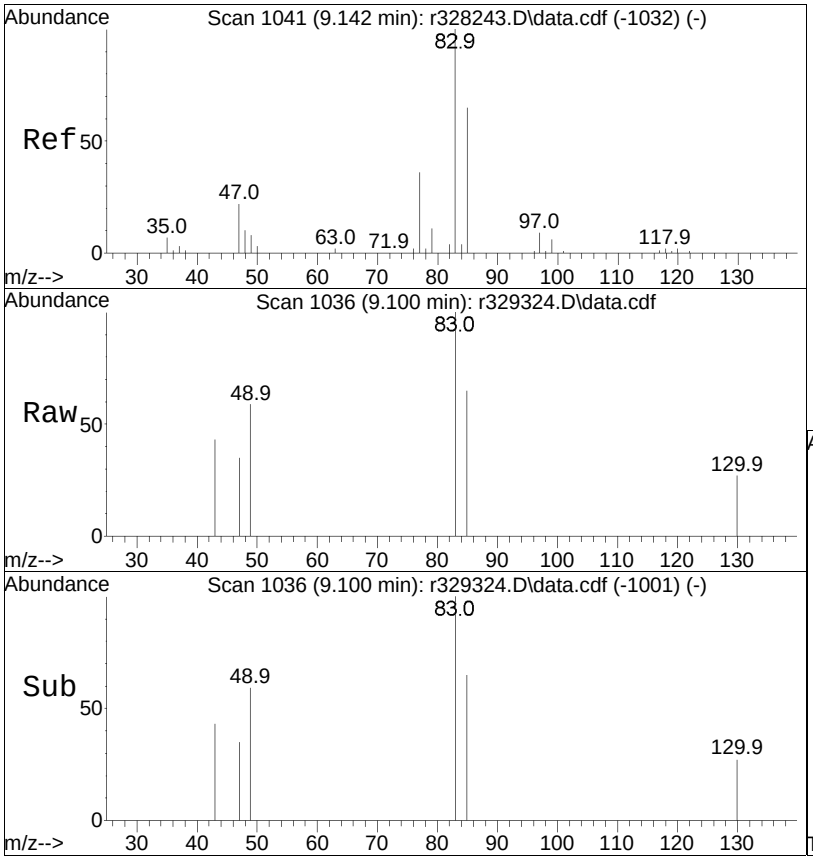


#38
Ethyl Acetate
Concen: 0.04 ppbV
RT: 9.058 min Scan# 1031
Delta R.T. -0.008 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 61 Resp: 258

Ion	Ratio	Lower	Upper
61	100		
70	89.9	77.5	116.3
43	509.6	765.5	1148.3#

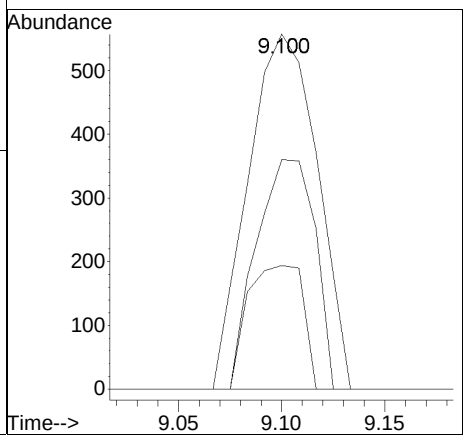


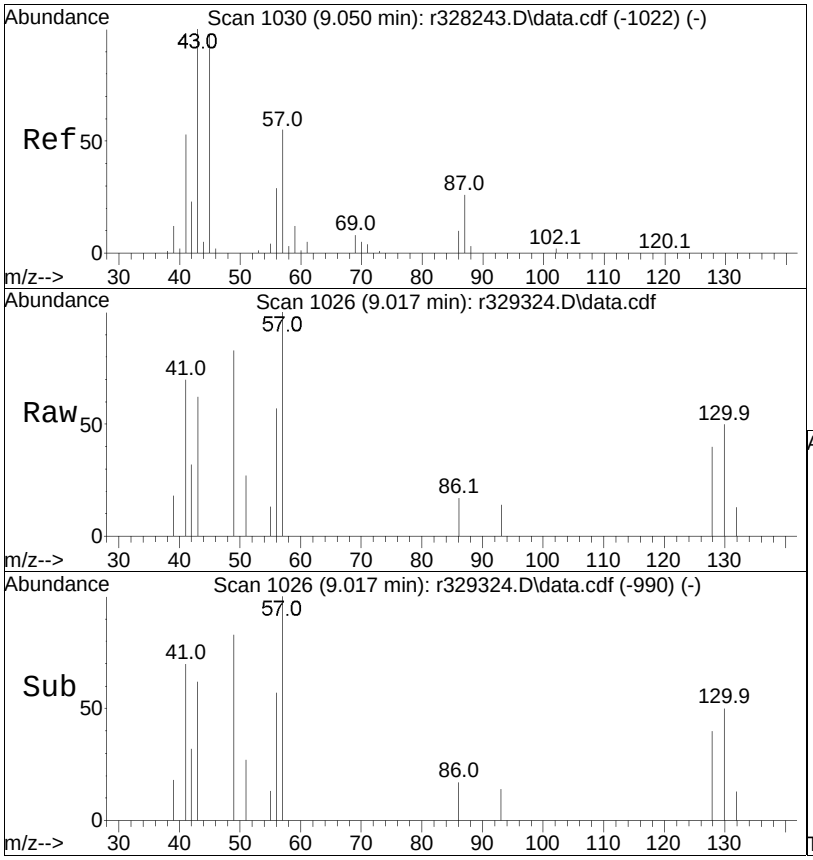


#39
chloroform
Concen: 0.05 ppbV
RT: 9.100 min Scan# 1036
Delta R.T. -0.042 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 83 Resp: 1300

Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.2	78.4
47	34.8	17.4	26.2#

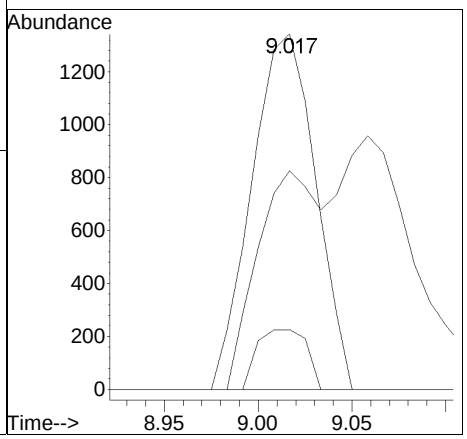


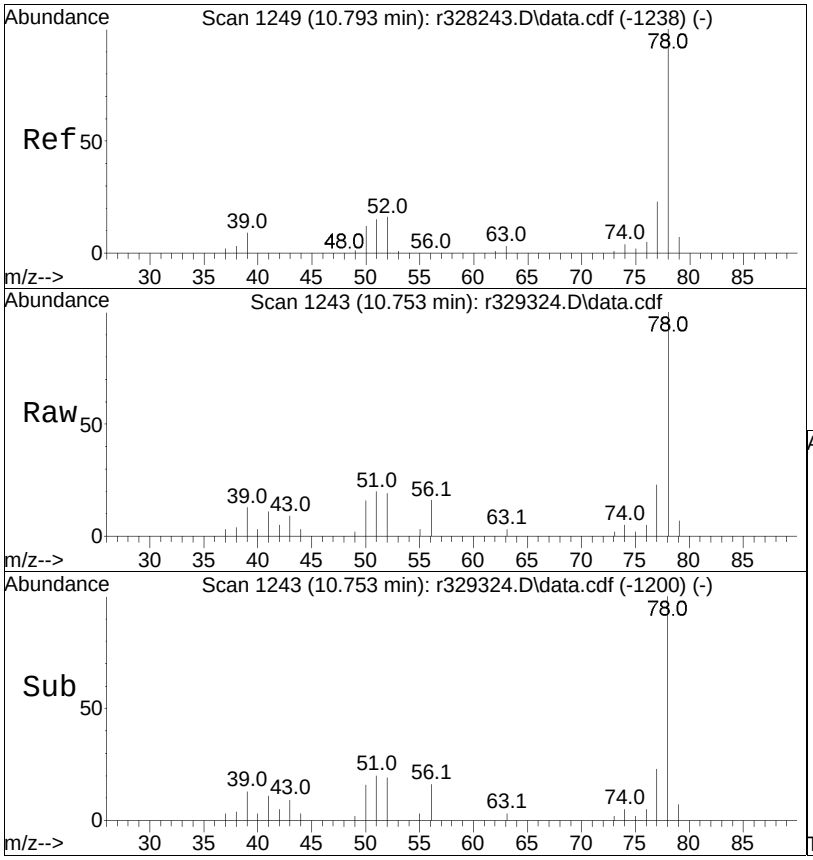


#44
hexane
Concen: 0.12 ppbV
RT: 9.017 min Scan# 1026
Delta R.T. -0.033 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 57 Resp: 3189

Ion	Ratio	Lower	Upper
57	100		
43	61.5	145.3	217.9#
86	16.8	14.3	21.5

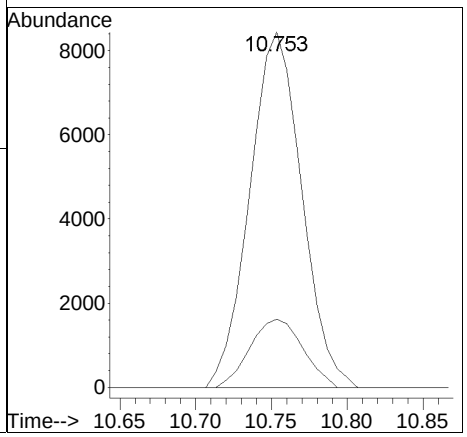


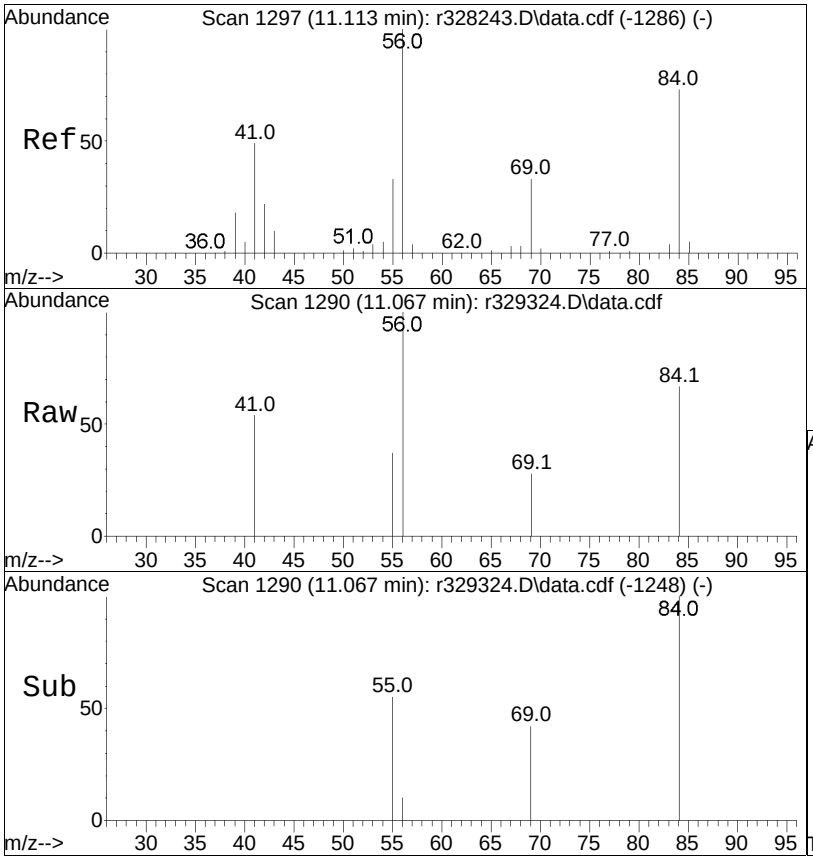


#50
benzene
Concen: 0.41 ppbV
RT: 10.753 min Scan# 1243
Delta R.T. -0.040 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 78 Resp: 20104

Ion	Ratio	Lower	Upper
78	100		
52	19.2	12.4	18.6#

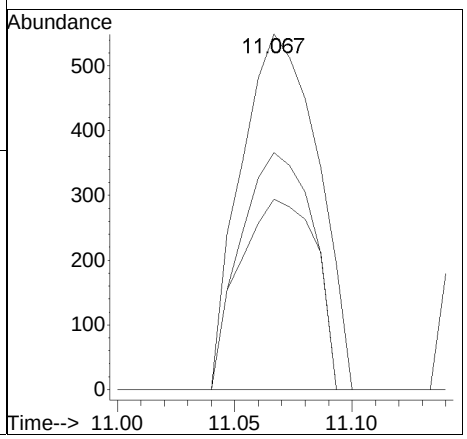


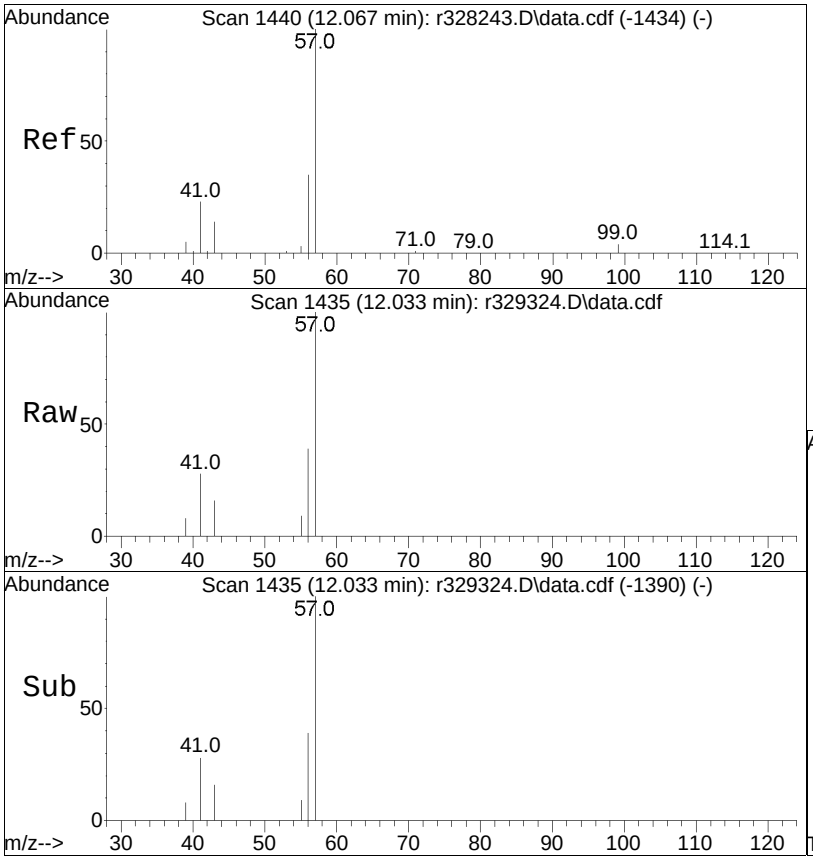


#53
cyclohexane
Concen: 0.04 ppbV
RT: 11.067 min Scan# 1290
Delta R.T. -0.047 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 56 Resp: 1249

Ion	Ratio	Lower	Upper
56	100		
84	66.7	58.7	88.1
41	53.6	39.6	59.4

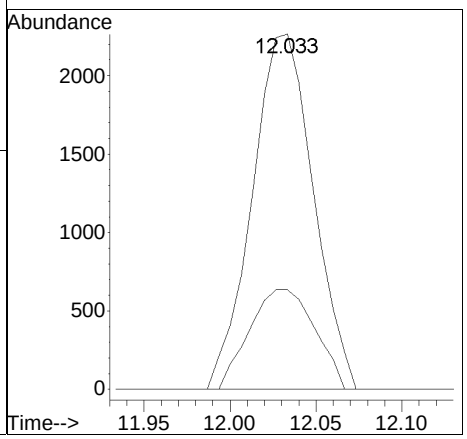


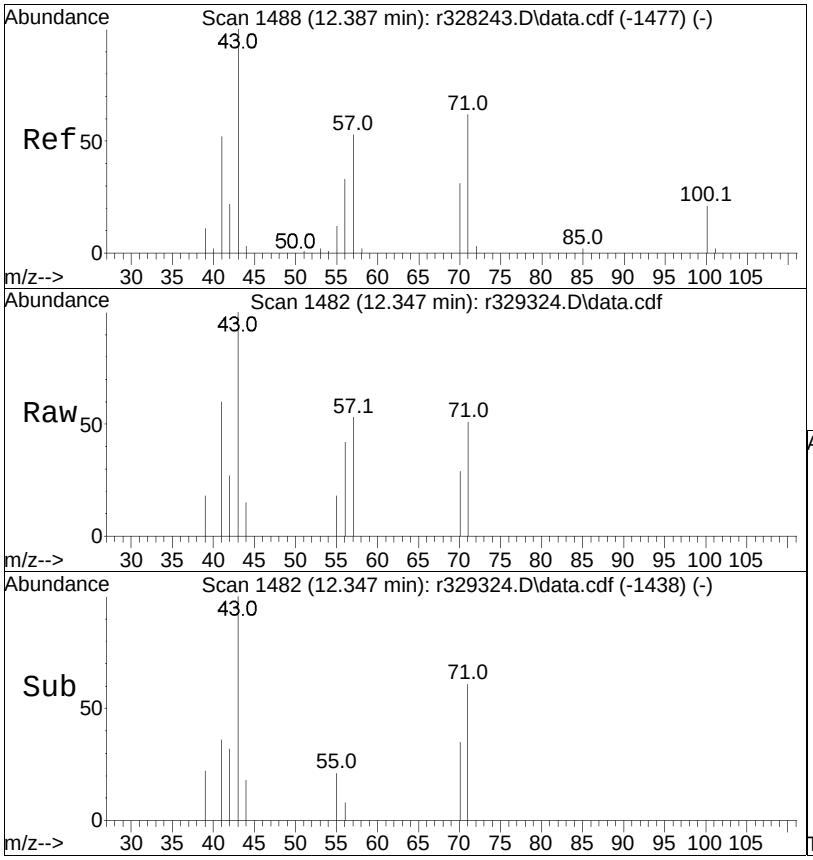


#60
2,2,4-trimethylpentane
Concen: 0.06 ppbV
RT: 12.033 min Scan# 1435
Delta R.T. -0.033 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 57 Resp: 5603

Ion	Ratio	Lower	Upper
57	100		
99	0.0	4.9	7.3#
41	28.0	18.2	27.4#

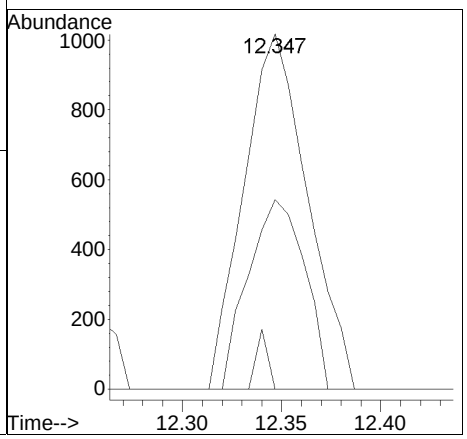


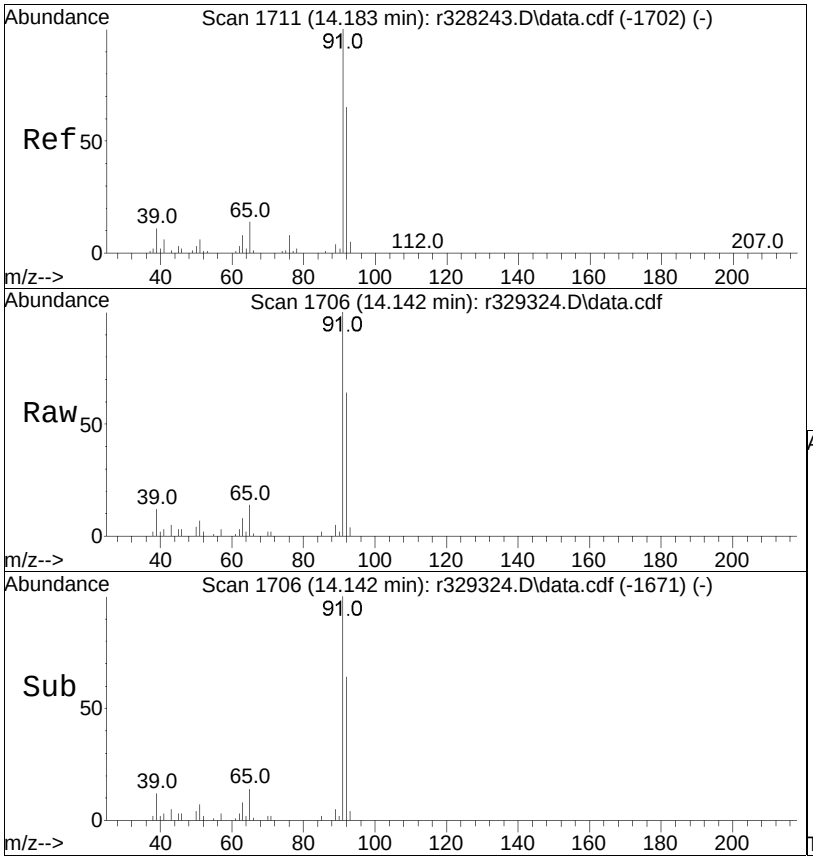


#62
heptane
Concen: 0.07 ppbV
RT: 12.347 min Scan# 1482
Delta R.T. -0.040 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 43 Resp: 2272

Ion	Ratio	Lower	Upper
43	100		
57	53.4	42.6	64.0
100	0.0	17.0	25.4#

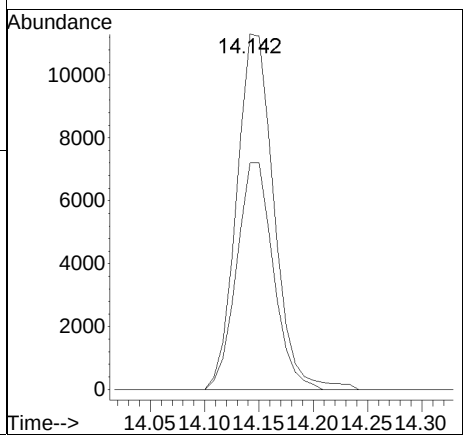


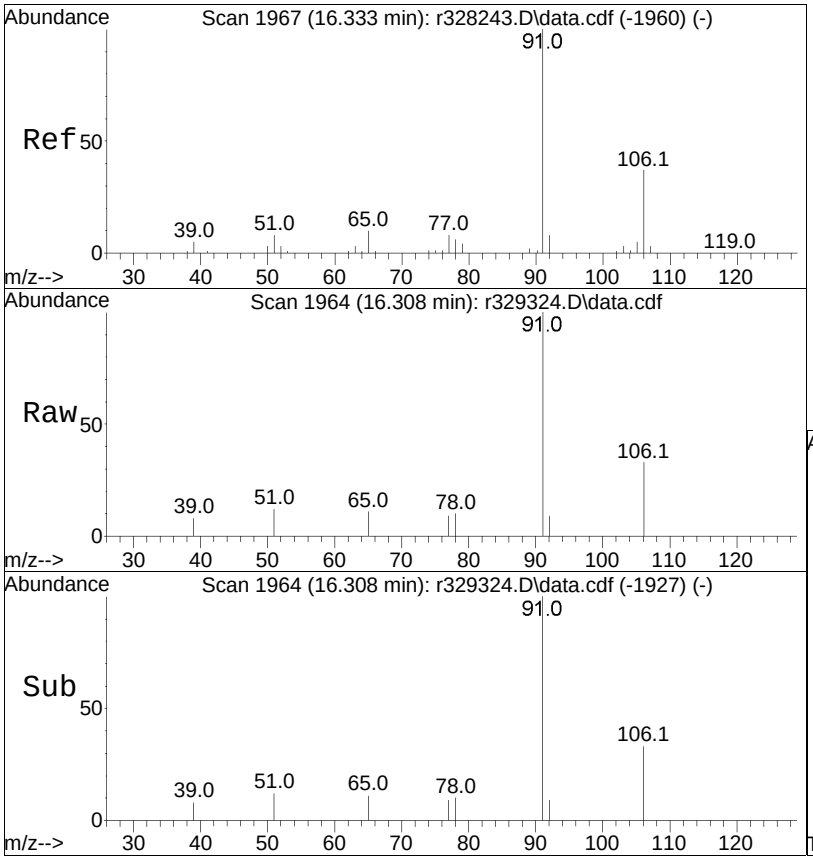


#68
toluene
Concen: 0.34 ppbV
RT: 14.142 min Scan# 1706
Delta R.T. -0.042 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 91 Resp: 26978

Ion	Ratio	Lower	Upper
91	100		
92	63.7	52.1	78.1

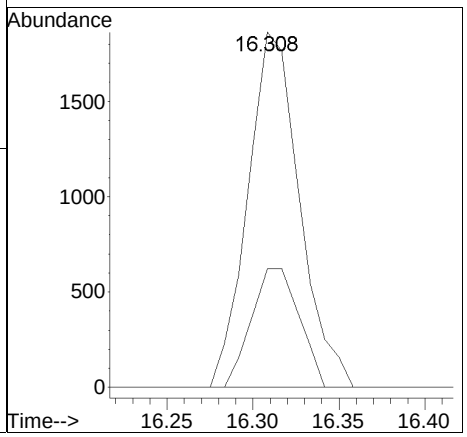


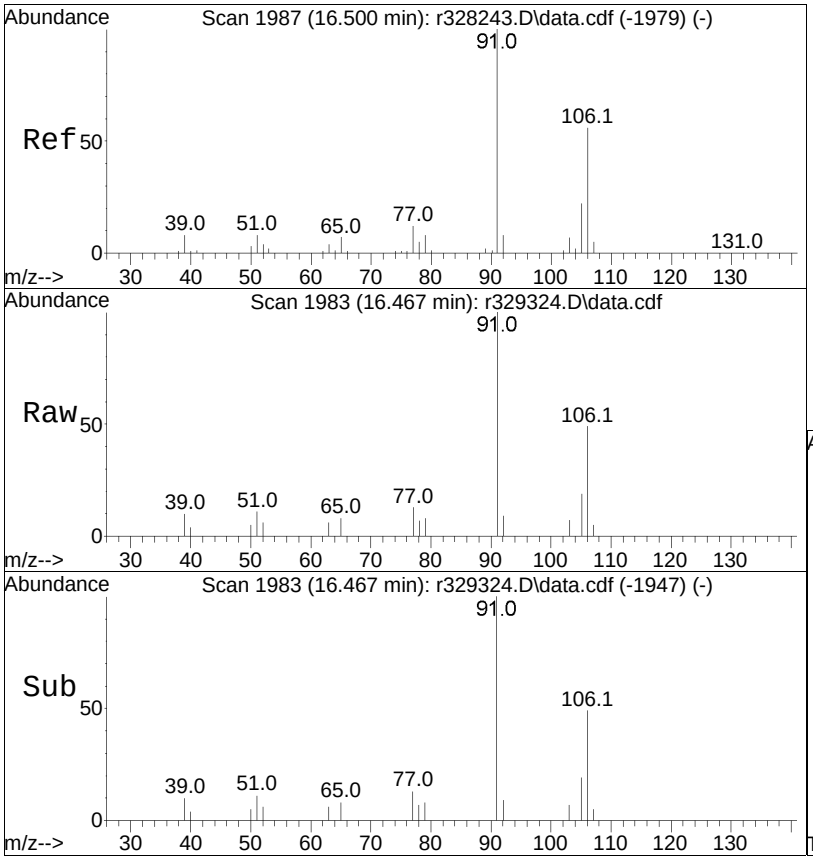


#81
ethylbenzene
Concen: 0.04 ppbV
RT: 16.308 min Scan# 1964
Delta R.T. -0.025 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 91 Resp: 3902

Ion	Ratio	Lower	Upper
91	100		
106	33.4	29.2	43.8

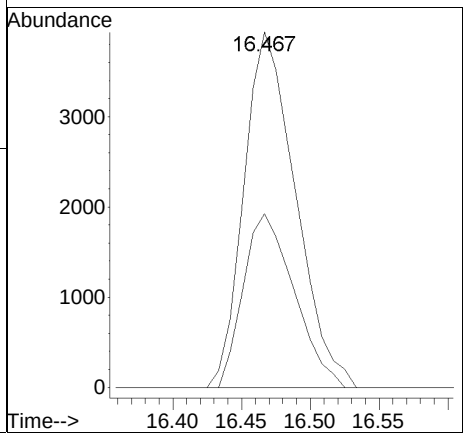


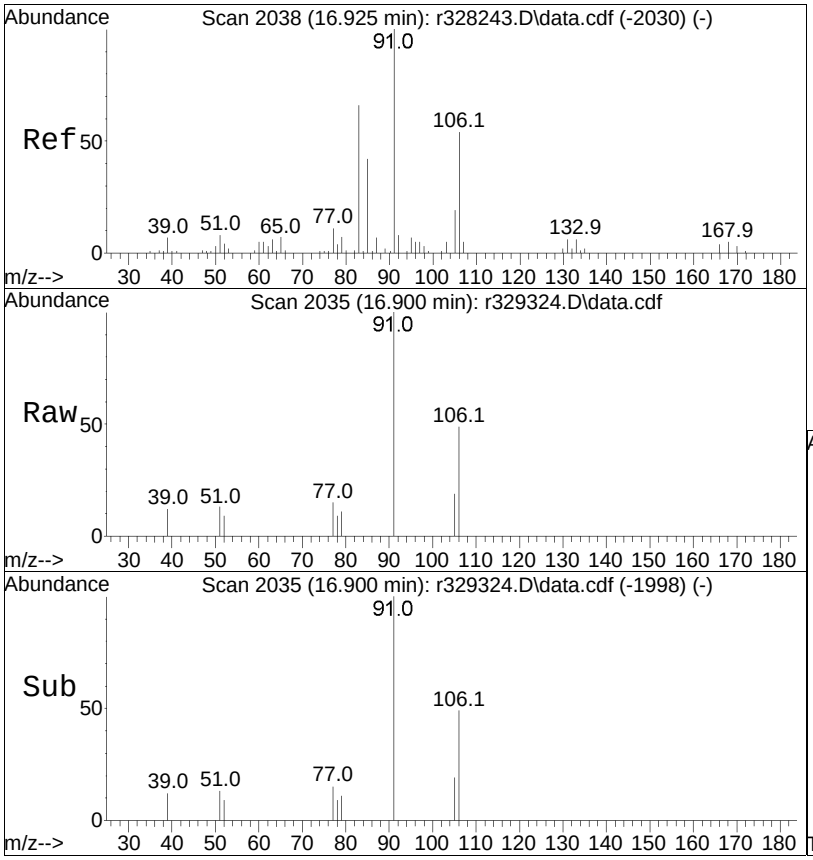


#83
m+p-xylene
Concen: 0.13 ppbV
RT: 16.467 min Scan# 1983
Delta R.T. -0.033 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 91 Resp: 10279

Ion	Ratio	Lower	Upper
91	100		
106	48.9	44.8	67.2

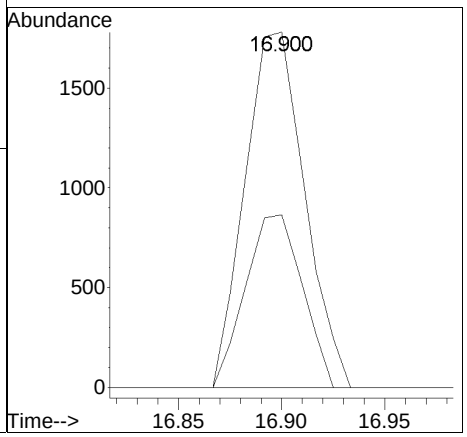




#87
o-xylene
Concen: 0.05 ppbV
RT: 16.900 min Scan# 2035
Delta R.T. -0.025 min
Lab File: r329324.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 91 Resp: 3581

Ion	Ratio	Lower	Upper
91	100		
106	48.6	43.0	64.6

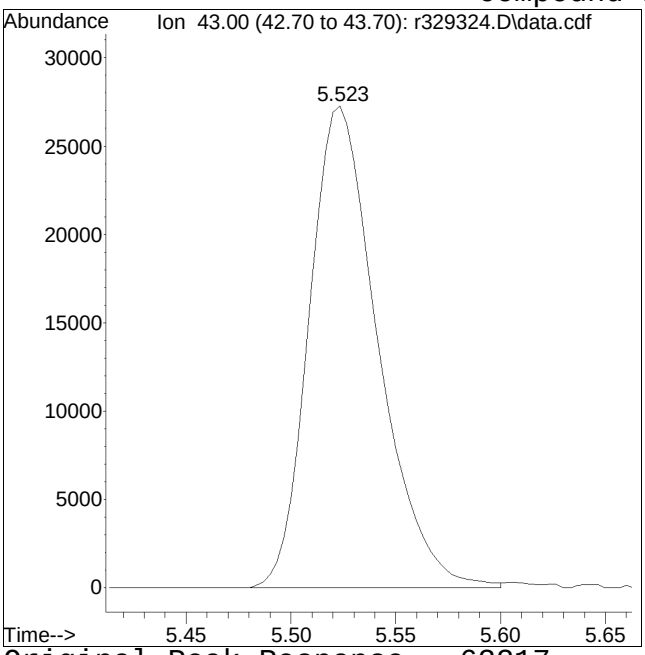


Manual Integration Report

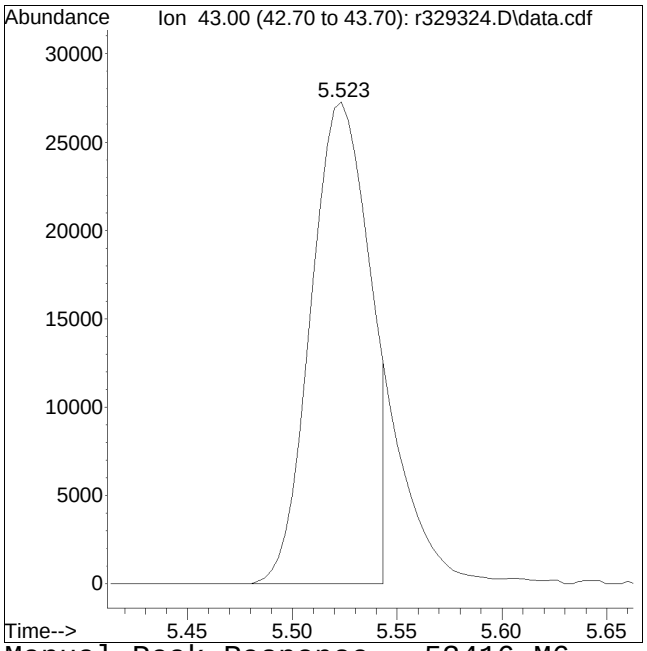
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329324.D
Date Inj'd : 2/25/2020 0:1: 3
Sample : WG1889054-5,3,250,250

Method : TFS3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:10 am

Compound #19: acetone



Original Peak Response = 62217



Manual Peak Response = 53416 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)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 27 2024, 11:09 am

Work Group: WG1888881 for Department: 3 GC/MS

Created: 24-FEB-24 Due: Operator: JMB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2407933-01	5V	S	TO15-LL	AIR	DONE	U	0314	0227	S0	Can-2.7
L2407933-02	6V	S	TO15-LL	AIR	DONE	U	0314	0227	S0	Can-2.7
L2407933-03	7V	S	TO15-LL	AIR	DONE	U	0314	0227	S0	Can-2.7
L2408568-01	SG-G-03	S	TO15-LL	SOIL_VAPOR	DONE	U	0316	0223	S0	Can-2.7
L2408568-02	SG-IA-2	S	TO15-LL	SOIL_VAPOR	DONE	U	0316	0223	S0	Can-2.7
L2408568-03	SG-SB-45	S	TO15-LL	SOIL_VAPOR	DONE	U	0316	0223	S0	Can-2.7
L2409224-01	IA-1	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
WG1888881-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1888881-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1888881-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1888881-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1888881-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1888881-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1888881-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1888881-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1888881-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				
WG1888881-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG1888881-5 L2407933-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 27 2024, 11:09 am

Work Group: WG1889054 for Department: 3 GC/MS

Created: 25-FEB-24 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2407714-17	UNIT 4	S	TO15-LL	AIR	DONE	U	0309	0226	S0	Can-2.7
L2407714-18	UNIT 5	S	TO15-LL	AIR	DONE	U	0309	0226	S0	Can-2.7
L2407714-19	UNIT 6	S	TO15-LL	AIR	DONE	U	0309	0226	S0	Can-2.7
L2409047-01	SV-1	S	TO15-LL	SOIL_VAPOR	SEC	U	0320	0227	3E	Can-2.7
L2409047-02	SV-2	S	TO15-LL	SOIL_VAPOR	DONE	U	0320	0227	3E	Can-2.7
L2409224-02	IA-2	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-03	IA-4	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-04	IA-5	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-05	IA-6	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-06	IA-9	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-07	IA-F1C	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-08	IA-F2C	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-09	IA-F3C	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-10	AA-1	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-11	DUP_022024	S	TO15-LL	AIR	DONE	U	0321	0227	S0	Can-6
L2409464-07	OLINVILLE-IA-B07	S	TO15-LL	AIR	DONE	U	0322	0228	S0	Can-6
L2409464-08	OLINVILLE-IA-B08	S	TO15-LL	AIR	DONE	U	0322	0228	S0	Can-6
L2409464-09	OLINVILLE-AA-01	S	TO15-LL	AIR	DONE	U	0322	0228	S0	Can-6
WG1889054-1	MS BFB Tune Standard	S	TO15-LL	AIR	DONE	U				
WG1889054-1	MS BFB Tune Standard	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889054-2	Continuing Calibrati	S	TO15-LL	AIR	DONE	U				
WG1889054-2	Continuing Calibrati	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889054-3	Laboratory Control S	S	TO15-LL	AIR	DONE	U				
WG1889054-3	Laboratory Control S	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889054-4	Laboratory Method Bl	S	TO15-LL	AIR	DONE	U				
WG1889054-4	Laboratory Method Bl	S	TO15-LL	SOIL_VAPOR	DONE	U				
WG1889054-5	Duplicate Sample	S	TO15-LL	AIR	DONE	U				
WG1889054-5	Duplicate Sample	S	TO15-LL	SOIL_VAPOR	DONE	U				

Comments:

WG1889054-5 L2409224-05

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-(

Date: 01/07/24

Internal Standard/Surrogate Volume:

Analyst Initials: BJB

Sequence File Name:

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737670.qgd	250 mL	BLANK
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737671.qgd	250 mL	BLANK
1	TA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737672.qgd	250 mL	TUNE
9	ITO15-SIMSTD0.02	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737673.qgd	50 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.05	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737674.qgd	125 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.1	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737675.qgd	250 mL SS23-019D	SIM ONLY
10	ITO15-SIMSTD0.2	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737676.qgd	50 mL SS23-019C	
10	ITO15-SIMSTD0.5	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737677.qgd	125 mL SS23-019C	
10	ITO15-SIMSTD1.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737678.qgd	250 mL SS23-019C	
11	ITO15-SIMSTD5.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737679.qgd	125 mL SS23-019B	
11	ITO15-SIMSTD10.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737680.qgd	250 mL SS23-019B	
12	ITO15-SIMSTD20	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737681.qgd	50 mL SS23-019A	
12	ITO15-SIMSTD50	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737682.qgd	125 mL SS23-019A	
12	ITO15-LLSTD100	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737683.qgd	250 mL SS23-019A	LL ONLY
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737684.qgd	250 mL	
1	BA17110402	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737685.qgd	250 mL	

Alpha Analytical Air Lab
Instrument Run Log

028/ SS21-026

100 ml

240107.S

Product/ Sublist	Check Pass ?
	NA
	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
	NA
USE AS TUNE FOR 1/8 SEQ	NA

Alpha Analytical Air Lab
Instrument Run Log

2	CTO15-LLSTD10.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737686.qgd	250 mL SS23-017C	LL ICV
2	CTO15-SIMSTD5.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737687.qgd	125 mL SS23-017C	SIM ICV

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

DEF ICV AP2	NA
DEF ICV AP2	NA

Instrument ID: AIRPIANO3

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 12/30/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 231230.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA3123001	TO15_SFS.qgm	R328235.qgd	250 mL	TUNE	DEF	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R328236.qgd	50 mL SS23-030D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R328237.qgd	125 mL SS23-030D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R328238.qgd	250 mL SS23-030D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R328239.qgd	50 mL SS23-030C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R328240.qgd	125 mLSS23-030C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R328241.qgd	250 mL SS23-030C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R328242.qgd	125 mL SS23-030B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R328243.qgd	250 mL SS23-0030B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R328244.qgd	50 mL SS23-030A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R328245.qgd	125 mL SS23-030A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R328246.qgd	250 mL SS23-030A	LL ONLY	DEF	NA
1	BA3123001	TO15_SFS.qgm	R328247.qgd	250 mL			NA
1	BA3123002	TO15_SFS.qgm	R328248.qgd	250 mL			NA
2	CTO15-LLSTD010	TO15_SFS.qgm	R328249.qgd	250 mL SS23-029C	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R328250.qgd	125 mL SS23-029C	SIM ICV (TUNE FOR 12/31 SEQ)	DEF ICV AP2	NA

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-028/ SS21-026

Date: 02/24/24

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 240224.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA17022301	TO15_SFS.qgm	R1738911.qgd	250 mL	TUNE		NA
2	CAPH10-APH10.0	TO15_SFS.qgm	R1738912.qgd	125 mL SS23-017D	APH CC		NA
3	CA17022301	TO15_SFS.qgm	R1738913.qgd	250 mL	LL CC		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1738914.qgd	250 mL SS23-017D	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1738915.qgd	125 mL SS23-017D	SIM LCS		NA
1	BA17022301	TO15_SFS.qgm	R1738916.qgd	250 mL	LL BLANK	Failed TCE by SIM	NA
1	BA17022302	TO15_SFS.qgm	R1738917.qgd	250 mL	SIM BLANK	Failed TCE	NA
2	L2409224-01,3,250,250	TO15_SFS.qgm	R1738918.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
3	L2407933-01,3,250,250	TO15_SFS.qgm	R1738919.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
4	L2407933-02,3,250,250	TO15_SFS.qgm	R1738920.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
5	L2407933-03,3,250,250	TO15_SFS.qgm	R1738921.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
5	L2407933-03DUP,3,250,250	TO15_SFS.qgm	R1738922.qgd	WG1888881,ICAL20743	(DUMMY) LL/SIM DUP	NY-7SIM	Y
6	L2408647-01,3,250,250	TO15_SFS.qgm	R1738923.qgd	WG1888883,ICAL20743		MCP/APH	Y
7	L2408647-02,3,250,250	TO15_SFS.qgm	R1738924.qgd	WG1888883,ICAL20743		MCP/APH	Y
8	L2408647-03,3,250,250	TO15_SFS.qgm	R1738925.qgd	WG1888883,ICAL20743		MCP/APH	Y
9	L2408647-04,3,250,250	TO15_SFS.qgm	R1738926.qgd	WG1888883,ICAL20743		MCP/APH	Y
10	L2408647-05,3,250,250	TO15_SFS.qgm	R1738927.qgd	WG1888883,ICAL20743		MCP/APH	Y

Alpha Analytical Air Lab
Instrument Run Log

11	L2408647-06,3,250,250	TO15_SFS.qgm	R1738928.qgd	WG1888883,ICAL20743		MCP/APH	Y
12	L2408647-07D,3,200,250	TO15_SFS.qgm	R1738929.qgd	WG1888883,ICAL20743	T	MCP/APH	Y
13	L2408568-01,3,250,250	TO15_SFS.qgm	R1738930.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y
14	L2408568-02D,3,30,250	TO15_SFS.qgm	R1738931.qgd	WG1888881,ICAL20743	over diluted	STD+NAPH+IPB	Y
15	L2408568-03,3,250,250	TO15_SFS.qgm	R1738932.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y
16	L2406995-01D,3,118.2,250	TO15_SFS.qgm	R1738933.qgd	WG1888884,ICAL20751	TRANSFER	APH	Y
14	L2408568-02,3,250,250	TO15_SFS.qgm	R1738934.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Instrument ID: AIRPIANO3

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 02/25/24

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 240225.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	ck Pass ? Y/N
1	TA3022401	TO15_SFS.qgm	R329312.qgd	250 mL	TUNE		NA
2	CA3022401	TO15_SFS.qgm	R329313.qgd	250 mL	NJ CC FAILED		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R329314.qgd	250 mL SS23-020G	LL LCS	RERUN FOR HITS OF 2HEX, BF, BC – DUE TO ICAL	NA
3	CTO15-SIMSTD5	TO15_SFS.qgm	R329315.qgd	125 mL SS23-020G	SIM LCS		NA
1	BA3022401	TO15_SFS.qgm	R329316.qgd	250 mL	LL BLANK		NA
1	BA3022401	TO15_SFS.qgm	R329317.qgd	250 mL	SIM BLANK		NA
1	L2409464-09,3,250,250	TO15_SFS.qgm	R329318.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
2	L2409224-10,3,250,250	TO15_SFS.qgm	R329319.qgd	WG1889054,ICAL20782		NY-7SIM	Y
3	L2409224-02,3,250,250	TO15_SFS.qgm	R329320.qgd	WG1889054,ICAL20782		NY-7SIM	Y
4	L2409224-03,3,250,250	TO15_SFS.qgm	R329321.qgd	WG1889054,ICAL20782		NY-7SIM	Y
5	L2409224-04,3,250,250	TO15_SFS.qgm	R329322.qgd	WG1889054,ICAL20782		NY-7SIM	Y
6	L2409224-05,3,250,250	TO15_SFS.qgm	R329323.qgd	WG1889054,ICAL20782		NY-7SIM	Y
6	L2409224-05DUP,3,250,250	TO15_SFS.qgm	R329324.qgd	WG1889054,ICAL20782	LL/ SIM DUP	NY-7SIM	Y
7	L2409224-06,3,250,250	TO15_SFS.qgm	R329325.qgd	WG1889054,ICAL20782		NY-7SIM	Y
8	L2409224-07,3,250,250	TO15_SFS.qgm	R329326.qgd	WG1889054,ICAL20782	ETOH OVERCAL	NY-7SIM	Y
9	L2409224-08,3,250,250	TO15_SFS.qgm	R329327.qgd	WG1889054,ICAL20782		NY-7SIM	Y

10	L2409224-09,3,250,250	TO15_SFS.qgm	R329328.qgd	WG1889054,ICAL20782		NY-7SIM	Y
11	L2409224-11,3,250,250	TO15_SFS.qgm	R329329.qgd	WG1889054,ICAL20782		NY-7SIM	Y
12	L2409464-07,3,250,250	TO15_SFS.qgm	R329330.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
13	L2409464-08,3,250,250	TO15_SFS.qgm	R329331.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
14	L2407714-17,3,250,250	TO15_SFS.qgm	R329332.qgd	WG1889054,ICAL20782		STD + NAPH	Y
15	L2407714-18,3,250,250	TO15_SFS.qgm	R329333.qgd	WG1889054,ICAL20782		STD + NAPH	Y
16	L2407714-19,3,250,250	TO15_SFS.qgm	R329334.qgd	WG1889054,ICAL20782		STD + NAPH	Y
1	L2409047-01D,3,5.98,250	TO15_SFS.qgm	R329335.qgd	WG1889054,ICAL20782	Overdiluted	PA	Y
2	L2409047-02D,3,114.41,250	TO15_SFS.qgm	R329336.qgd	WG1889054,ICAL20782		PA	Y
8	L2409224-07D,3,50,250	TO15_SFS.qgm	R329337.qgd	WG1889054,ICAL20782		ETOH	Y
1	L2409047-01D,3,29.9,250	TO15_SFS.qgm	R329338.qgd	WG1889054,ICAL20782	T	PA	

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) } L1301234-01,3,250,250

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

Lab Duplicate Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Client Sample ID	: IA-6	**Matrix (Level)**	: AIR (LOW)
Lab Sample ID	: L2409224-05	**Analysis Date**	: 02/25/24 22:31
Lab File ID	: R329323_EV2	**DUP File ID**	: r329324_Ev2
Dup Sample ID	: WG1889055-5	**DUP Analysis Date**	: 02/25/24 23:13

Parameter	Sample Concentration (ppbV)	Duplicate Concentration (ppbV)	RPD	RPD Limit
Vinyl chloride	ND	ND	NC	25
1,1-Dichloroethene	ND	ND	NC	25
cis-1,2-Dichloroethene	ND	ND	NC	25
1,1,1-Trichloroethane	ND	ND	NC	25
Carbon tetrachloride	0.096	0.084	13	25
Trichloroethene	ND	ND	NC	25
Tetrachloroethene	0.047	0.051	8	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC			**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD			**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)				
LCS Sample ID	: WG1888882-3	**Analysis Date**	: 02/24/24 14:03	**File ID**	: r1738915_Ev2
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	4.71	94				-	70-130	25
1,1-Dichloroethene	5	5.05	101				-	70-130	25
cis-1,2-Dichloroethene	5	4.64	93				-	70-130	25
1,1,1-Trichloroethane	5	5.40	108				-	70-130	25
Carbon tetrachloride	5	5.40	108				-	70-130	25
Trichloroethene	5	4.84	97				-	70-130	25
Tetrachloroethene	5	4.21	84				-	70-130	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: SOIL_VAPOR (LOW)		
LCS Sample ID	: WG1889046-3 **Analysis Date** : 02/25/24 14:46	**File ID**	: r1927989_Ev2
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	4.85	97				-	70-130	25
1,1-Dichloroethene	5	4.43	89				-	70-130	25
cis-1,2-Dichloroethene	5	4.20	84				-	70-130	25
1,1,1-Trichloroethane	5	5.65	113				-	70-130	25
Carbon tetrachloride	5	5.55	111				-	70-130	25
Trichloroethene	5	5.21	104				-	70-130	25
Tetrachloroethene	5	3.72	74				-	70-130	25

Laboratory Control Sample Summary
Form 3
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Matrix (Level)	: AIR (LOW)		
LCS Sample ID	: WG1889055-3 **Analysis Date** : 02/25/24 15:17	**File ID**	: r329315_Ev2
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	5.32	106				-	70-130	25
1,1-Dichloroethene	5	4.40	88				-	70-130	25
cis-1,2-Dichloroethene	5	4.20	84				-	70-130	25
1,1,1-Trichloroethane	5	5.26	105				-	70-130	25
Carbon tetrachloride	5	5.84	117				-	70-130	25
Trichloroethene	5	5.09	102				-	70-130	25
Tetrachloroethene	5	3.89	78				-	70-130	25

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1888882-4	**Lab File ID**	: r1738917_Ev2
Instrument ID	: AIRLAB17		
Matrix	: AIR	**Analysis Date**	: 02/24/24 17:49

Client Sample No.	Lab Sample ID	Analysis Date
WG1888882-3LCS	WG1888882-3	02/24/24 14:03
IA-1	L2409224-01	02/24/24 18:28
7VDUP	WG1888882-5	02/24/24 21:06

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1889046-4	**Lab File ID**	: r1927991_Ev2
Instrument ID	: AIRLAB19		
Matrix	: SOIL_VAPOR	**Analysis Date**	: 02/25/24 17:19

Client Sample No.	Lab Sample ID	Analysis Date
WG1889046-3LCS	WG1889046-3	02/25/24 14:46
IA-1	L2409224-01	02/25/24 18:38
SS-1-WT590-020624DUP	WG1889046-5D	02/25/24 22:13

Method Blank Summary
Form 4
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab Sample ID	: WG1889055-4	**Lab File ID**	: r329317_Ev2
Instrument ID	: AIRPIANO3		
Matrix	: AIR	**Analysis Date**	: 02/25/24 17:52

Client Sample No.	Lab Sample ID	Analysis Date
WG1889055-3LCS	WG1889055-3	02/25/24 15:17
AA-1	L2409224-10	02/25/24 19:50
IA-2	L2409224-02	02/25/24 20:30
IA-4	L2409224-03	02/25/24 21:10
IA-5	L2409224-04	02/25/24 21:50
IA-6	L2409224-05	02/25/24 22:31
IA-6DUP	WG1889055-5	02/25/24 23:13
IA-9	L2409224-06	02/25/24 23:53
IA-F1C	L2409224-07	02/26/24 00:34
IA-F2C	L2409224-08	02/26/24 01:14
IA-F3C	L2409224-09	02/26/24 01:55
DUP_022024	L2409224-11	02/26/24 02:35

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 01/07/24 19:44
Tune Standard	: WG1872081-1	**Tune File ID**	: r1737672_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	16.8
75	30.0 - 66.0% of mass 95	40.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	68.5
175	4.0 - 9.0% of mass 174	4.8 (7)1
176	93.0 - 101% of mass 174	66.2 (96.7)1
177	5.0 - 9.0% of mass 176	4.3 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1782633-1	R1737673_EV2	01/07/24 20:20
STD0.05	R1782633-2	R1737674_EV2	01/07/24 20:57
STD0.1	R1782633-3	R1737675_EV2	01/07/24 21:36
STD0.2	R1782633-4	R1737676_EV2	01/07/24 22:14
STD0.5	R1782633-5	R1737677_EV2	01/07/24 22:54
STD1.0	R1782633-6	R1737678_EV2	01/07/24 23:36
STD5.0	R1782633-7	R1737679_EV2	01/08/24 00:15
STD10.0	R1782633-8	R1737680_EV2	01/08/24 00:56
STD20	R1782633-9	R1737681_EV2	01/08/24 01:35
STD50	R1782633-10	R1737682_EV2	01/08/24 02:14
ICV QUANT	R1782633-11	R1737687_EV2	01/08/24 13:39

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 02/24/24 11:22
Tune Standard	: WG1888882-1	**Tune File ID**	: r1738911_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	17.5
75	30.0 - 66.0% of mass 95	41
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.4 (.6)1
174	50.0 - 120.0% of mass 95	67.1
175	4.0 - 9.0% of mass 174	4.7 (7.1)1
176	93.0 - 101% of mass 174	65.3 (97.2)1
177	5.0 - 9.0% of mass 176	4.3 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1888882-2CCAL	WG1888882-2	R1738915_EV2	02/24/24 14:03
WG1888882-3LCS	WG1888882-3	R1738915_EV2	02/24/24 14:03
WG1888882-4BLANK	WG1888882-4	R1738917_EV2	02/24/24 17:49
IA-1	L2409224-01	R1738918_EV2	02/24/24 18:28
WG1888882-5DUP	WG1888882-5	R1738922_EV2	02/24/24 21:06

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 12/30/23 13:22
Tune Standard	: WG1874985-1	**Tune File ID**	: r328235_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.4
75	30.0 - 66.0% of mass 95	34.8
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.6
173	Less than 2.0% of mass 174	0.5 (.8)1
174	50.0 - 120.0% of mass 95	67.5
175	4.0 - 9.0% of mass 174	4.9 (7.3)1
176	93.0 - 101% of mass 174	65.3 (96.8)1
177	5.0 - 9.0% of mass 176	4.3 (6.6)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1785357-1	R328236_EV2	12/30/23 13:58
STD0.05	R1785357-2	R328237_EV2	12/30/23 14:35
STD0.1	R1785357-4	R328238_EV2	12/30/23 15:14
STD0.2	R1785357-3	R328239_EV2	12/30/23 15:53
STD0.5	R1785357-5	R328240_EV2	12/30/23 16:33
STD1.0	R1785357-6	R328241_EV2	12/30/23 17:15
STD5.0	R1785357-7	R328242_EV2	12/30/23 17:55
STD010	R1785357-8	R328243_EV2	12/30/23 18:38
STD020	R1785357-9	R328244_EV2	12/30/23 19:17
STD050	R1785357-10	R328245_EV2	12/30/23 19:57
ICV QUANT	R1785357-11	R328250_EV2	12/31/23 12:35

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 02/25/24 12:25
Tune Standard	: WG1889055-1	**Tune File ID**	: r329312_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	20.8
75	30.0 - 66.0% of mass 95	44.3
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.1
173	Less than 2.0% of mass 174	0 (0)1
174	50.0 - 120.0% of mass 95	55.3
175	4.0 - 9.0% of mass 174	3.7 (6.6)1
176	93.0 - 101% of mass 174	53.4 (96.6)1
177	5.0 - 9.0% of mass 176	3.4 (6.3)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1889055-2CCAL	WG1889055-2	R329315_EV2	02/25/24 15:17
WG1889055-3LCS	WG1889055-3	R329315_EV2	02/25/24 15:17
WG1889055-4BLANK	WG1889055-4	R329317_EV2	02/25/24 17:52
AA-1	L2409224-10	R329319_EV2	02/25/24 19:50
IA-2	L2409224-02	R329320_EV2	02/25/24 20:30
IA-4	L2409224-03	R329321_EV2	02/25/24 21:10
IA-5	L2409224-04	R329322_EV2	02/25/24 21:50
IA-6	L2409224-05	R329323_EV2	02/25/24 22:31
WG1889055-5DUP	WG1889055-5	R329324_EV2	02/25/24 23:13
IA-9	L2409224-06	R329325_EV2	02/25/24 23:53
IA-F1C	L2409224-07	R329326_EV2	02/26/24 00:34
IA-F2C	L2409224-08	R329327_EV2	02/26/24 01:14
IA-F3C	L2409224-09	R329328_EV2	02/26/24 01:55
DUP_022024	L2409224-11	R329329_EV2	02/26/24 02:35

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB19	**Analysis Date**	: 02/21/24 19:44
Tune Standard	: WG1888539-1	**Tune File ID**	: r1927912_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	12.8
75	30.0 - 66.0% of mass 95	37.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.7
173	Less than 2.0% of mass 174	0.4 (.7)1
174	50.0 - 120.0% of mass 95	61.8
175	4.0 - 9.0% of mass 174	4.4 (7.2)1
176	93.0 - 101% of mass 174	60.6 (98.2)1
177	5.0 - 9.0% of mass 176	4 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
STD0.02	R1797974-1	R1927913_EV2	02/21/24 20:28
STD0.05	R1797974-2	R1927914_EV2	02/21/24 21:13
STD0.1	R1797974-3	R1927915_EV2	02/21/24 21:57
STD0.2	R1797974-4	R1927916_EV2	02/21/24 22:41
STD0.5	R1797974-5	R1927917_EV2	02/21/24 23:25
STD1.0	R1797974-6	R1927918_EV2	02/22/24 00:09
STD5.0	R1797974-7	R1927919_EV2	02/22/24 00:52
STD010	R1797974-8	R1927920_EV2	02/22/24 01:36
STD020	R1797974-9	R1927921_EV2	02/22/24 02:20
STD050	R1797974-10	R1927922_EV2	02/22/24 03:04
ICV QUANT	R1797974-11	R1927927_EV2	02/22/24 12:49

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

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB19	**Analysis Date**	: 02/25/24 12:34
Tune Standard	: WG1889046-1	**Tune File ID**	: r1927986_tune

m/e	Ion Abundance Criteria	%Relative Abundance
50	8.0 - 40.0% of mass 95	14.8
75	30.0 - 66.0% of mass 95	35.9
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	0.4 (.6)1
174	50.0 - 120.0% of mass 95	57.7
175	4.0 - 9.0% of mass 174	4.1 (7.1)1
176	93.0 - 101% of mass 174	57.7 (99.9)1
177	5.0 - 9.0% of mass 176	3.8 (6.5)2

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

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

Client Sample ID	Lab Sample ID	File ID	Analysis Date/Time
WG1889046-2CCAL	WG1889046-2	R1927989_EV2	02/25/24 14:46
WG1889046-3LCS	WG1889046-3	R1927989_EV2	02/25/24 14:46
WG1889046-4BLANK	WG1889046-4	R1927991_EV2	02/25/24 17:19
IA-1	L2409224-01	R1927992_EV2	02/25/24 18:38
WG1889046-5DUP	WG1889046-5D	R1927997_EV2	02/25/24 22:13

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB17	**Analysis Date**	: 02/24/24 14:03:00
Sample No	: WG1888882-2	**Lab File ID**	: R1738915_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1888882-2	222593	8.86	650953	11.10	90010	15.85
Upper Limit	311630	9.19	911334	11.43	126014	16.18
Lower Limit	133556	8.53	390572	10.77	54006	15.52
Sample ID						
WG1888882-3 LCS	222593	8.86	650953	11.10	90010	15.85
WG1888882-4 BLANK	193619	8.85	547151	11.09	71104	15.84
IA-1	208397	8.84	589067	11.08	80164	15.84
7V DUP	201594	8.83	554335	11.07	76485	15.83

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRLAB19	**Analysis Date**	: 02/25/24 14:46:00
Sample No	: WG1889046-2	**Lab File ID**	: R1927989_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1889046-2	262028	8.52	725299	10.77	130584	15.54
Upper Limit	366839	8.85	1015419	11.10	182818	15.87
Lower Limit	157217	8.19	435179	10.44	78350	15.21
Sample ID						
WG1889046-3 LCS	262028	8.52	725299	10.77	130584	15.54
WG1889046-4 BLANK	260786	8.52	722148	10.77	128219	15.54
IA-1	245264	8.51	666960	10.76	119241	15.53
SS-1-WT590-020624 DUP	265031	8.51	715108	10.76	129763	15.53

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

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

* Values outside of QC limits

Internal Standard Area and RT Summary
Form 8a
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Instrument ID	: AIRPIANO3	**Analysis Date**	: 02/25/24 15:17:00
Sample No	: WG1889055-2	**Lab File ID**	: R329315_EV2

	Bromochloromethane		1,4-Difluorobenzene		Chlorobenzene-d5	
	Area	RT	Area	RT	Area	RT
WG1889055-2	180634	8.94	492655	11.18	92375	15.91
Upper Limit	252888	9.27	689717	11.51	129325	16.24
Lower Limit	108380	8.61	295593	10.85	55425	15.58
Sample ID						
WG1889055-3 LCS	180634	8.94	492655	11.18	92375	15.91
WG1889055-4 BLANK	165299	8.94	434281	11.18	82997	15.91
AA-1	158965	8.94	416628	11.18	80971	15.91
IA-2	157068	8.94	416087	11.17	81821	15.91
IA-4	158974	8.94	411767	11.17	80754	15.91
IA-5	154067	8.94	402079	11.17	79243	15.91
IA-6	151535	8.94	392137	11.17	76849	15.91
IA-6 DUP	147173	8.94	381789	11.17	73731	15.91
IA-9	150966	8.94	388674	11.17	76042	15.91
IA-F1C	153219	8.94	399112	11.17	79773	15.91
IA-F2C	153090	8.94	395959	11.18	78506	15.91
IA-F3C	151041	8.94	393654	11.17	78783	15.91
DUP_022024	150185	8.94	389756	11.18	77611	15.91

Area Upper Limit = +40% of internal standard area

Area Lower Limit = - 40% of internal standard area

RT Upper Limit = +0.33 minutes of internal standard RT

RT Lower Limit = -0.33 minutes of internal standard RT

* Values outside of QC limits

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

Volatile Organics in Air by TO-15 SIM (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
1,1,1-Trichloroethane	71-55-6	0.02	0.0059	ppbV	70-130	25		25	25			
1,1,1,2-Tetrachloroethane	630-20-6	0.02	0.01	ppbV	70-130	25		25	25			
1,1,2,2-Tetrachloroethane	79-34-5	0.02	0.0067	ppbV	70-130	25		25	25			
1,1,2-Trichloroethane	79-00-5	0.02	0.0097	ppbV	70-130	25		25	25			
1,1-Dichloroethane	75-34-3	0.02	0.0086	ppbV	70-130	25		25	25			
1,1-Dichloroethene	75-35-4	0.02	0.0077	ppbV	70-130	25		25	25			
1,2,3-Trichloropropane	96-18-4	0.02	0.0073	ppbV	70-130	25		25	25			
1,2,4-Trimethylbenzene	95-63-6	0.02	0.0076	ppbV	70-130	25		25	25			
1,2-Dibromoethane	106-93-4	0.02	0.0091	ppbV	70-130	25		25	25			
1,2-Dibromo-3-chloropropane	96-12-8	0.02	0.0124	ppbV	70-130	25		25	25			
1,2-Dichlorobenzene	95-50-1	0.02	0.0062	ppbV	70-130	25		25	25			
1,2-Dichloroethane	107-06-2	0.02	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloropropane	78-87-5	0.02	0.0083	ppbV	70-130	25		25	25			
1,3,5-Trimethylbenzene	108-67-8	0.02	0.0096	ppbV	70-130	25		25	25			
1,3-Butadiene	106-99-0	0.02	0.0106	ppbV	70-130	25		25	25			
1,3-Dichlorobenzene	541-73-1	0.02	0.0077	ppbV	70-130	25		25	25			
1,4-Dichlorobenzene	106-46-7	0.02	0.0075	ppbV	70-130	25		25	25			
1,4-Dioxane	123-91-1	0.1	0.0344	ppbV	70-130	25		25	25			
1-Bromo-2-Chloroethane	107-04-0	0.02	0.0102	ppbV	70-130	25		25	25			
1-Bromo-3-Fluorobenzene	1073-06-9	0.02	0.0065	ppbV	70-130	25		25	25			
1-Bromo-4-Ethylbenzene	1585-07-5	0.05	0.004	ppbV	70-130	25		25	25			
2,2,4-Trimethylpentane	540-84-1	0.2	0.037	ppbV	70-130	25		25	25			
2-Bromopyridine	109-04-6	0.5	0.0161	ppbV	30-150	25		25	25			
2-Hexanone	591-78-6	0.2	0.0354	ppbV	70-130	25		25	25			
3,4-Dichlorobenzotrifluoride	328-84-7	0.02	0.0024	ppbV	70-130	25		25	25			
3-Amino-4-Chlorobenzotrifluoride	121-50-6	1.25	0.0178	ppbV	30-150	25		25	25			
3-Chloropropene	107-05-1	0.2	0.0327	ppbV	70-130	25		25	25			
3-Nitro-4-Chlorobenzotrifluoride	121-17-5	2.5	0.129	ppbV	30-150	25		25	25			
4-Bromofluorobenzene	460-00-4	0.2	0.0094	ppbV	70-130	25		25	25			
4-Chlorobenzotrifluoride	98-56-6	0.02	0.006	ppbV	70-130	25		25	25			
4-Ethyltoluene	622-96-8	0.02	0.0099	ppbV	70-130	25		25	25			
Benzene	71-43-2	0.1	0.0298	ppbV	70-130	25		25	25			
Benzyl chloride	100-44-7	0.1	0.0332	ppbV	70-130	25		25	25			
Bromobenzene	108-86-1	0.2	0.0262	ppbV	70-130	25		25	25			
Bromodichloromethane	75-27-4	0.02	0.0074	ppbV	70-130	25		25	25			
Bromoform	75-25-2	0.02	0.0111	ppbV	70-130	25		25	25			
Bromomethane	74-83-9	0.02	0.0094	ppbV	70-130	25		25	25			
Carbon disulfide	75-15-0	0.2	0.0316	ppbV	70-130	25		25	25			
Carbon tetrachloride	56-23-5	0.02	0.011	ppbV	70-130	25		25	25			
Chlorobenzene	108-90-7	0.1	0.0258	ppbV	70-130	25		25	25			
Chloroethane	75-00-3	0.1	0.0395	ppbV	70-130	25		25	25			
Chloroform	67-66-3	0.02	0.0071	ppbV	70-130	25		25	25			

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

Volatile Organics in Air by TO-15 SIM (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
Chloromethane	74-87-3	0.2	0.0756	ppbV	70-130	25		25	25			
cis-1,2-Dichloroethene	156-59-2	0.02	0.0102	ppbV	70-130	25		25	25			
trans-1,2-Dichloroethene	156-60-5	0.02	0.009	ppbV	70-130	25		25	25			
1,2-Dichloroethene (total)	540-59-0	0.02	0.009	ppbV				25	25			
cis-1,3-Dichloropropene	10061-01-5	0.02	0.0118	ppbV	70-130	25		25	25			
1,3-Dichloropropene, Total	542-75-6	0.02	0.0115	ppbV				25	25			
Cyclohexane	110-82-7	0.2	0.0313	ppbV	70-130	25		25	25			
Dibromochloromethane	124-48-1	0.02	0.008	ppbV	70-130	25		25	25			
Dibromomethane	74-95-3	0.2	0.0251	ppbV	70-130	25		25	25			
Dichlorodifluoromethane	75-71-8	0.2	0.0499	ppbV	70-130	25		25	25			
Ethyl Alcohol	GCDAI06	5	1.35	ppbV	40-160	25		25	25			
Ethyl Acetate	141-78-6	0.5	0.323	ppbV	70-130	25		25	25			
Ethylbenzene	100-41-4	0.02	0.0085	ppbV	70-130	25		25	25			
Fluorobenzene	462-06-6	0.05	0.009	ppbV	70-130	25		25	25			
1,1,2-Trichloro-1,2,2-Trifluoroethane	76-13-1	0.05	0.0083	ppbV	70-130	25		25	25			
1,2-Dichloro-1,1,2,2-tetrafluoroethane	76-14-2	0.05	0.0064	ppbV	70-130	25		25	25			
Methylcyclohexane	108-87-2	0.02	0.0051	ppbV	70-130	25		25	25			
Methylene chloride	75-09-2	0.5	0.11	ppbV	70-130	25		25	25			
Methyl tert butyl ether	1634-04-4	0.2	0.0261	ppbV	70-130	25		25	25			
m/p-Dibromobenzene	108-36-1/106-37-6	0.5	0.0137	ppbV	70-130	25		25	25			
Naphthalene	91-20-3	0.05	0.021	ppbV	70-130	25		25	25			
p/m-Xylene	179601-23-1	0.04	0.018	ppbV	70-130	25		25	25			
o-Xylene	95-47-6	0.02	0.0087	ppbV	70-130	25		25	25			
Heptane	142-82-5	0.2	0.0313	ppbV	70-130	25		25	25			
n-Hexane	110-54-3	0.2	0.0471	ppbV	70-130	25		25	25			
Propylene	115-07-1	0.5	0.167	ppbV	70-130	25		25	25			
Styrene	100-42-5	0.02	0.0079	ppbV	70-130	25		25	25			
tert-Butyl Alcohol	75-65-0	0.5	0.134	ppbV	70-130	25		25	25			
Tetrachloroethene	127-18-4	0.02	0.0074	ppbV	70-130	25		25	25			
Tetrahydrofuran	109-99-9	0.5	0.142	ppbV	70-130	25		25	25			
Toluene	108-88-3	0.1	0.0166	ppbV	70-130	25		25	25			
trans-1,3-Dichloropropene	10061-02-6	0.02	0.0115	ppbV	70-130	25		25	25			
Trichloroethene	79-01-6	0.02	0.006	ppbV	70-130	25		25	25			
1,2,4-Trichlorobenzene	120-82-1	0.05	0.0146	ppbV	70-130	25		25	25			
Trichlorofluoromethane	75-69-4	0.05	0.0092	ppbV	70-130	25		25	25			
Vinyl acetate	108-05-4	1	0.286	ppbV	70-130	25		25	25			
Vinyl bromide	593-60-2	0.2	0.0431	ppbV	70-130	25		25	25			
Hexachlorobutadiene	87-68-3	0.05	0.011	ppbV	70-130	25		25	25			
iso-Propyl Alcohol	67-63-0	0.5	0.249	ppbV	40-160	25		25	25			
Vinyl chloride	75-01-4	0.02	0.0088	ppbV	70-130	25		25	25			
Acrylonitrile	107-13-1	0.5	0.162	ppbV	70-130	25		25	25			
n-Butylbenzene	104-51-8	0.2	0.0319	ppbV	70-130	25		25	25			

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

Volatile Organics in Air by TO-15 SIM (AIR)

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

Analyte	CAS #	RL	MDL	Units	LCS Criteria	LCS RPD	MS Criteria	MS RPD	Duplicate RPD	Surrogate Criteria		
sec-Butylbenzene	135-98-8	0.2	0.0266	ppbV	70-130	25		25	25			
Isopropylbenzene	98-82-8	0.2	0.0299	ppbV	70-130	25		25	25			
Xylene (Total)	1330-20-7	0.02	0.0087	ppbV				25	25			
p-Isopropyltoluene	99-87-6	0.2	0.0366	ppbV	70-130	25		25	25			
Acetone	67-64-1	1	0.539	ppbV	40-160	25		25	25			
2-Butanone	78-93-3	0.5	0.132	ppbV	70-130	25		25	25			
4-Methyl-2-pentanone	108-10-1	0.5	0.191	ppbV	70-130	25		25	25			
1,2,3-Trichlorobenzene	87-61-6	0.05	0.0223	ppbV	70-130	25		25	25			
Acrolein	107-02-8	0.05	0.0387	ppbV	60-113	25		25	25			
1,2-Dichloroethane-d4	*17060-07-0*									*70-130*		
Toluene-d8	*2037-26-5*									*70-130*		
Bromofluorobenzene	*460-00-4*									*70-130*		

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

Volatiles Sample Data

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-01	**Date Collected**	: 02/20/24 15:25
Client ID	: IA-1	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/24/24 18:28
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TJS
Lab File ID	: R1738918_EV2	**Instrument ID**	: AIRLAB17
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	0.082	0.020	--	0.516	0.126	--	
127-18-4	Tetrachloroethene	0.053	0.020	--	0.359	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-01	**Date Collected**	: 02/20/24 15:25
Client ID	: IA-1	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 18:38
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R1927992_EV2	**Instrument ID**	: AIRLAB19
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-02	**Date Collected**	: 02/20/24 15:32
Client ID	: IA-2	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 20:30
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329320_EV2	**Instrument ID**	: AIRPIANO3
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	0.081	0.020	--	0.321	0.079	--	
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.081	0.020	--	0.510	0.126	--	
79-01-6	Trichloroethene	0.067	0.020	--	0.360	0.107	--	
127-18-4	Tetrachloroethene	0.049	0.020	--	0.332	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-03	**Date Collected**	: 02/20/24 15:27
Client ID	: IA-4	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 21:10
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329321_EV2	**Instrument ID**	: AIRPIANO3
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	0.085	0.020	--	0.535	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-04	**Date Collected**	: 02/20/24 15:29
Client ID	: IA-5	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 21:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329322_EV2	**Instrument ID**	: AIRPIANO3
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	0.086	0.020	--	0.541	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.035	0.020	--	0.237	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-05	**Date Collected**	: 02/20/24 15:34
Client ID	: IA-6	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 22:31
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329323_EV2	**Instrument ID**	: AIRPIANO3
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	0.096	0.020	--	0.604	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.047	0.020	--	0.319	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-06	**Date Collected**	: 02/20/24 15:35
Client ID	: IA-9	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 23:53
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329325_EV2	**Instrument ID**	: AIRPIANO3
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	0.087	0.020	--	0.547	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.029	0.020	--	0.197	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-07	**Date Collected**	: 02/20/24 15:45
Client ID	: IA-F1C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 00:34
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329326_EV2	**Instrument ID**	: AIRPIANO3
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	0.095	0.020	--	0.598	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-08	**Date Collected**	: 02/20/24 15:42
Client ID	: IA-F2C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 01:14
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329327_EV2	**Instrument ID**	: AIRPIANO3
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	0.088	0.020	--	0.554	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-09	**Date Collected**	: 02/20/24 15:40
Client ID	: IA-F3C	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 01:55
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329328_EV2	**Instrument ID**	: AIRPIANO3
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	0.090	0.020	--	0.566	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.028	0.020	--	0.190	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-10	**Date Collected**	: 02/20/24 08:37
Client ID	: AA-1	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/25/24 19:50
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329319_EV2	**Instrument ID**	: AIRPIANO3
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	0.085	0.020	--	0.535	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: L2409224-11	**Date Collected**	: 02/20/24 15:47
Client ID	: DUP_022024	**Date Received**	: 02/20/24
Sample Location	: 11-20 46TH, LONG ISLAND CITY, NY	**Date Analyzed**	: 02/26/24 02:35
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329329_EV2	**Instrument ID**	: AIRPIANO3
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	0.087	0.020	--	0.547	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.039	0.020	--	0.264	0.136	--	

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1888882-4	**Date Collected**	: NA
Client ID	: WG1888882-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/24/24 17:49
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: TJS
Lab File ID	: R1738917_EV2	**Instrument ID**	: AIRLAB17
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	0.039	0.020	--	0.210	0.107	--	
127-18-4	Tetrachloroethene	ND	0.020	--	ND	0.136	--	U

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1889046-4	**Date Collected**	: NA
Client ID	: WG1889046-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/25/24 17:19
Sample Matrix	: SOIL_VAPOR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R1927991_EV2	**Instrument ID**	: AIRLAB19
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

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1889055-4	**Date Collected**	: NA
Client ID	: WG1889055-4BLANK	**Date Received**	: NA
Sample Location	:	**Date Analyzed**	: 02/25/24 17:52
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329317_EV2	**Instrument ID**	: AIRPIANO3
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

Results Summary
Form 1
Volatile Organics in Air by SIM

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000
Lab ID	: WG1889055-5	**Date Collected**	: 02/20/24 15:34
Client ID	: IA-6DUP	**Date Received**	: 02/20/24
Sample Location	:	**Date Analyzed**	: 02/25/24 23:13
Sample Matrix	: AIR	**Dilution Factor**	: 1
Analytical Method	: 48,TO-15-SIM	**Analyst**	: BJB
Lab File ID	: R329324_EV2	**Instrument ID**	: AIRPIANO3
Sample Amount	: 250 ml	**GC Column**	: RTX-1

		ppbV			ug/m3			
CAS NO.	**Parameter**	**Results**	**RL**	**MDL**	**Results**	**RL**	**MDL**	**Qualifier**
75-01-4	Vinyl chloride	ND	0.020	--	ND	0.051	--	U
75-35-4	1,1-Dichloroethene	ND	0.020	--	ND	0.079	--	U
156-59-2	cis-1,2-Dichloroethene	ND	0.020	--	ND	0.079	--	U
71-55-6	1,1,1-Trichloroethane	ND	0.020	--	ND	0.109	--	U
56-23-5	Carbon tetrachloride	0.084	0.020	--	0.528	0.126	--	
79-01-6	Trichloroethene	ND	0.020	--	ND	0.107	--	U
127-18-4	Tetrachloroethene	0.051	0.020	--	0.346	0.136	--	

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738918_Ev2.D
Acq On : 24 Feb 2024 6:28 PM
Operator : AIRLAB17:TJS
Sample : L2409224-01,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:49:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : 7-NY-SIM - .

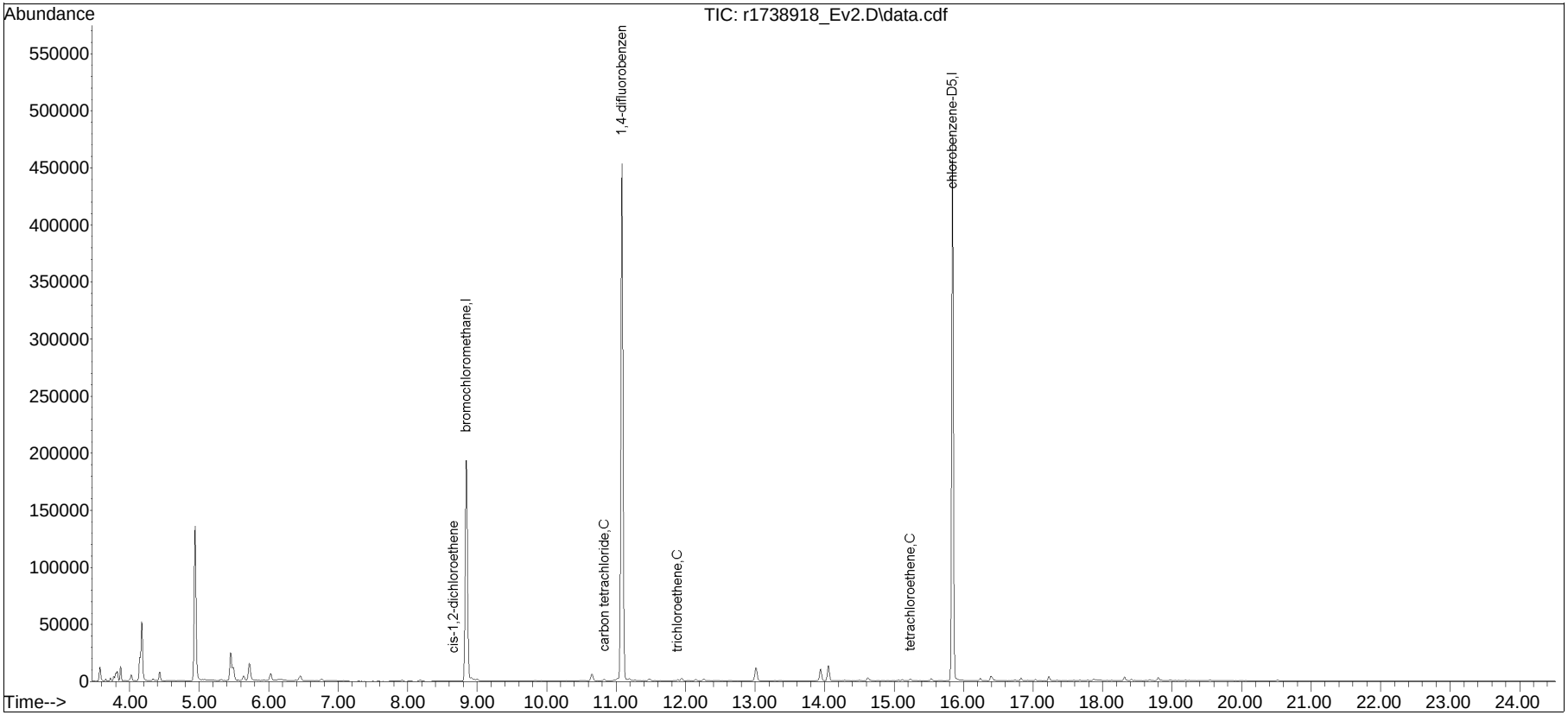
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	208397	10.000	ppbV	0.00
Standard Area = 222593			Recovery =		93.62%	
33) 1,4-difluorobenzene	11.083	114	589067	10.000	ppbV	0.01
Standard Area = 650953			Recovery =		90.49%	
51) chlorobenzene-D5	15.842	54	80164	10.000	ppbV	0.02
Standard Area = 90010			Recovery =		89.06%	
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	8.658	61	207	0.014	ppbV	90
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.830	117	1341	0.082	ppbV	96
44) trichloroethene	11.883	130	676	0.039	ppbV	96
57) tetrachloroethene	15.233	166	1002	0.053	ppbV #	94

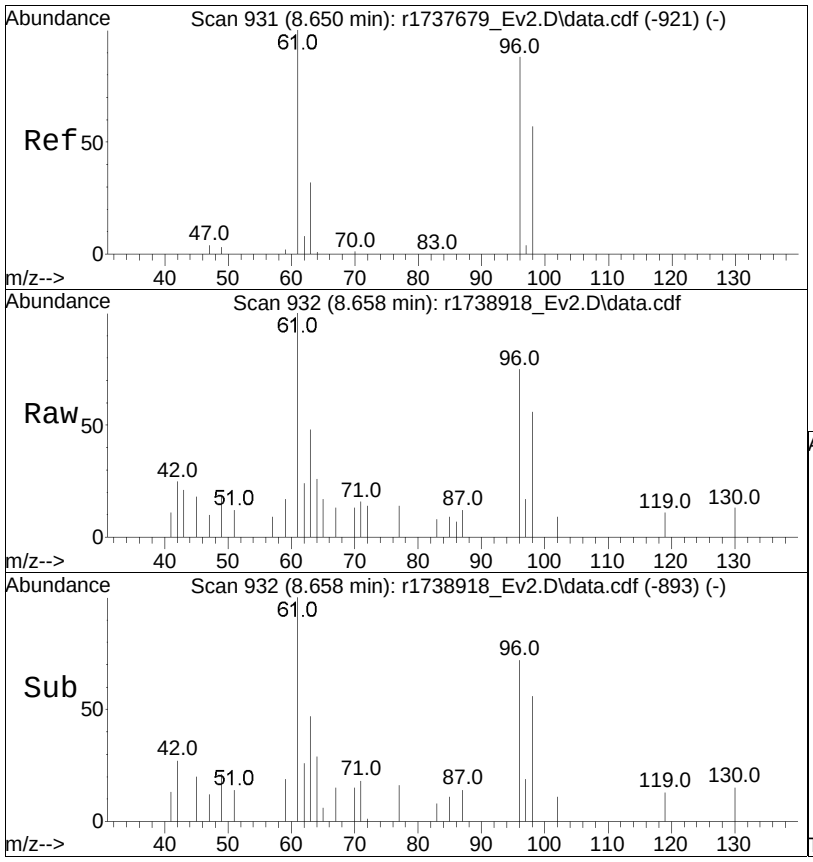
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738918_Ev2.D
Acq On : 24 Feb 2024 6:28 PM
Operator : AIRLAB17:TJS
Sample : L2409224-01,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:49:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

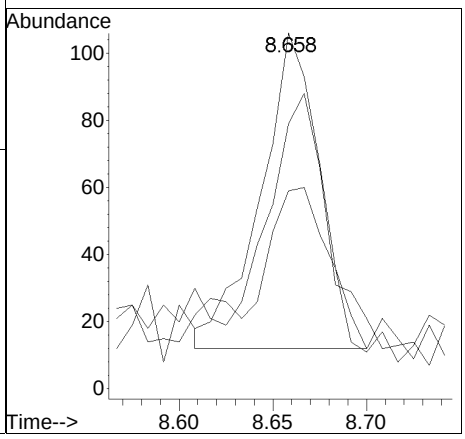


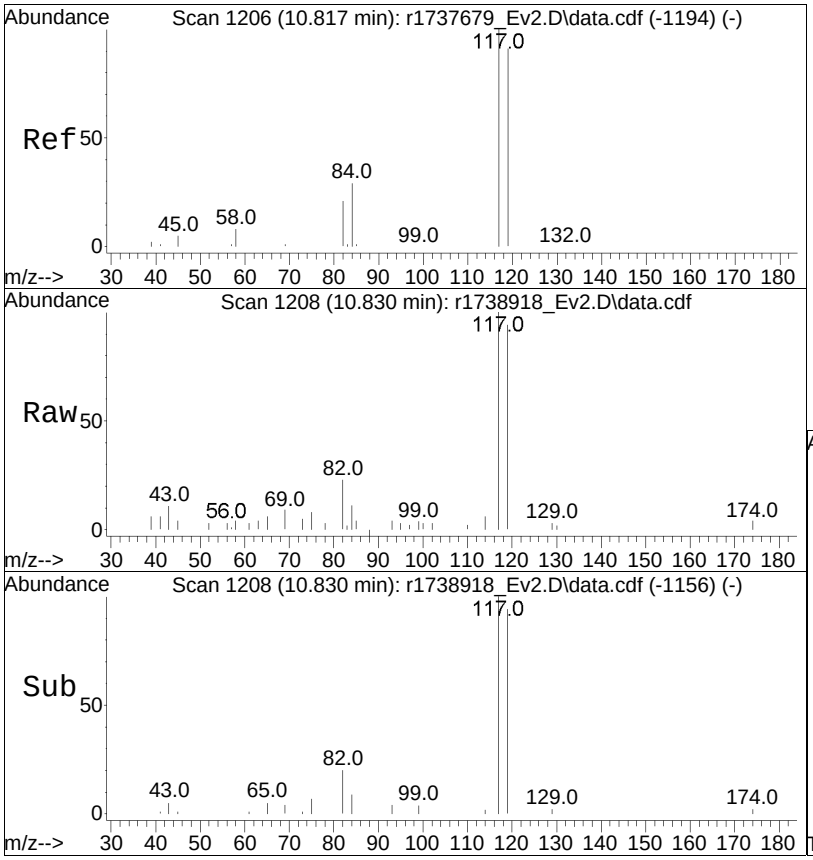


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 8.658 min Scan# 932
Delta R.T. 0.008 min
Lab File: r1738918_Ev2.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion: 61 Resp: 207

Ion	Ratio	Lower	Upper
61	100		
96	74.5	70.8	106.2
98	55.7	45.8	68.8

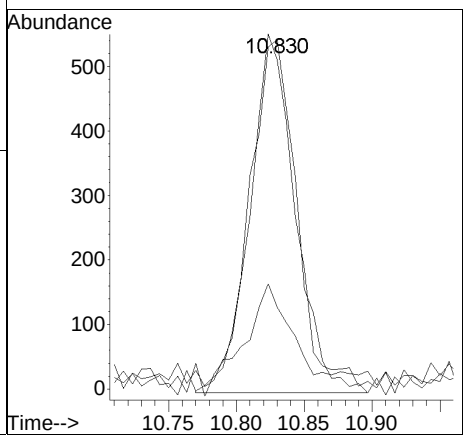


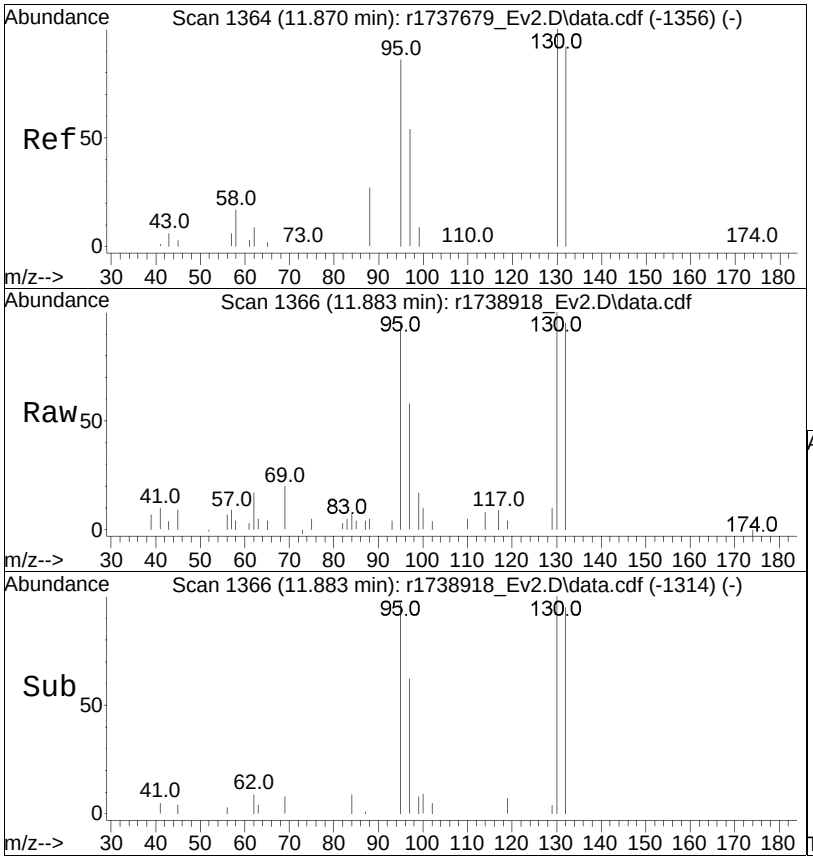


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 10.830 min Scan# 1208
Delta R.T. 0.013 min
Lab File: r1738918_Ev2.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion:117 Resp: 1341

Ion	Ratio	Lower	Upper
117	100		
119	94.3	73.0	109.4
82	23.5	16.8	25.2

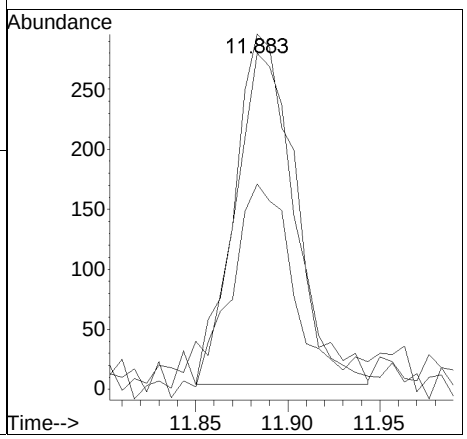


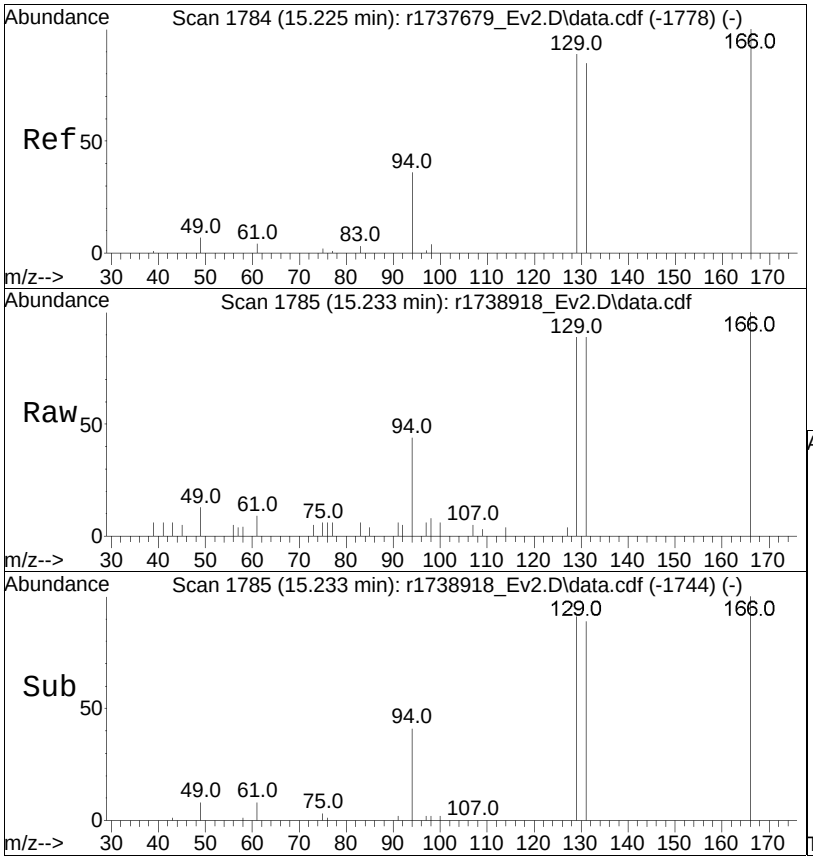


#44
trichloroethene
Concen: 0.04 ppbV
RT: 11.883 min Scan# 1366
Delta R.T. 0.013 min
Lab File: r1738918_Ev2.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion:130 Resp: 676

Ion	Ratio	Lower	Upper
130	100		
132	94.6	73.5	110.3
97	57.8	43.4	65.0

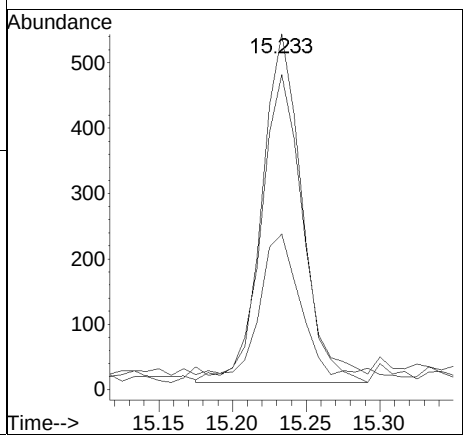




#57
tetrachloroethene
Concen: 0.05 ppbV
RT: 15.233 min Scan# 1785
Delta R.T. 0.008 min
Lab File: r1738918_Ev2.D
Acq: 24 Feb 2024 6:28 PM

Tgt Ion:166 Resp: 1002

Ion	Ratio	Lower	Upper
166	100		
131	88.6	68.3	102.5
94	43.8	28.9	43.3#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab17	QMethod	: TSIM17_240107.M
Data File	: r1738918_Ev2.D	Operator	: AIRLAB17:TJS
Date Inj'd	: 2/24/2020 0:6: 8	Instrument	:
Sample	: L2409224-01,3,250,250	Quant Date	: 2/25/2024 6:49 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927992_Ev2.D
Acq On : 25 Feb 2024 6:38 PM
Operator : AIRLAB19:BJB
Sample : L2409224-01,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:49:53 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : TCE - .

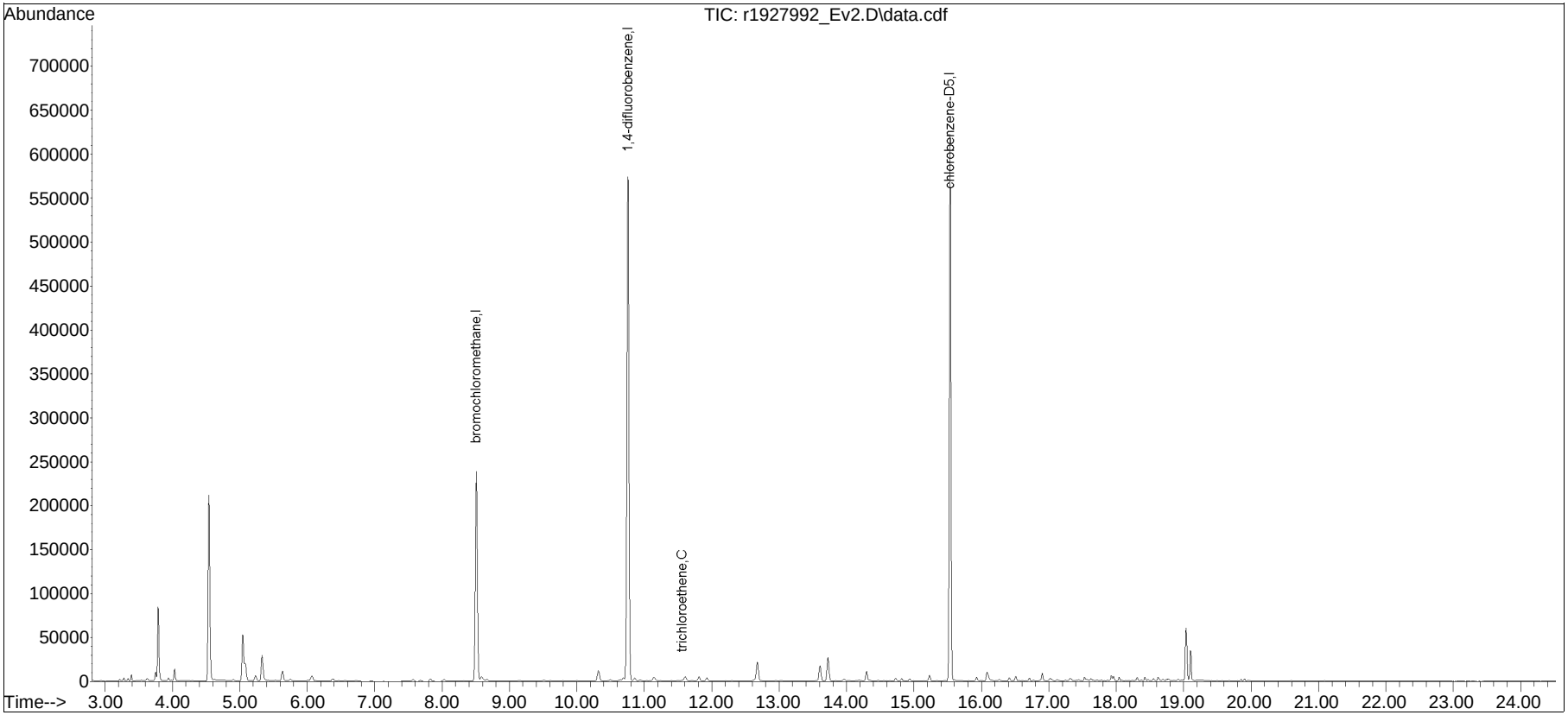
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.508	49	245264	10.000	ppbV	0.00
Standard Area = 262028			Recovery =		93.60%	
33) 1,4-difluorobenzene	10.760	114	666960	10.000	ppbV	0.00
Standard Area = 725299			Recovery =		91.96%	
51) chlorobenzene-D5	15.533	54	119241	10.000	ppbV	0.00
Standard Area = 130584			Recovery =		91.31%	
System Monitoring Compounds						
Target Compounds						Qvalue
44) trichloroethene	11.560	130	323	0.017	ppbV	90

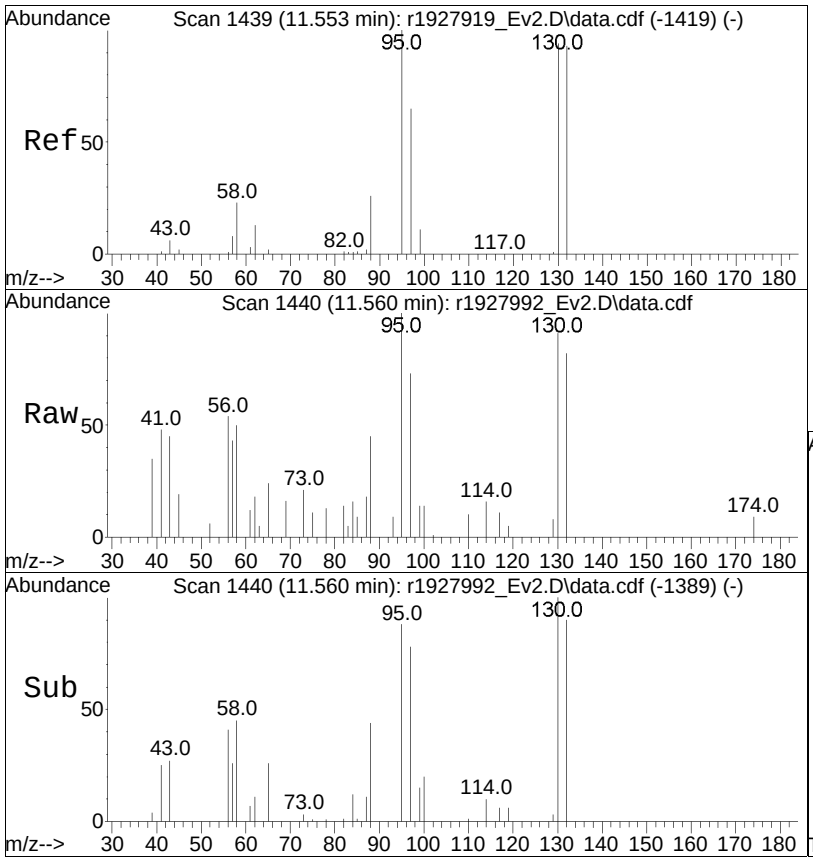
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : TCE - .nsics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927992_Ev2.D
Acq On : 25 Feb 2024 6:38 PM
Operator : AIRLAB19:BJB
Sample : L2409224-01,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:49:53 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

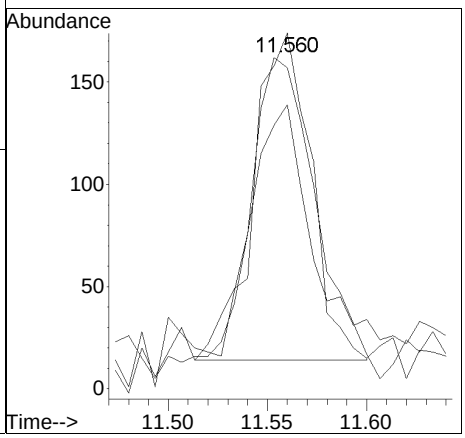




#44
trichloroethene
Concen: 0.02 ppbV
RT: 11.560 min Scan# 1440
Delta R.T. 0.007 min
Lab File: r1927992_Ev2.D
Acq: 25 Feb 2024 6:38 PM

Tgt Ion:130 Resp: 323

Ion	Ratio	Lower	Upper
130	100		
132	90.2	78.5	117.7
97	79.9	55.3	82.9



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab19	QMethod	: TSIM19_240221.M
Data File	: r1927992_Ev2.D	Operator	: AIRLAB19:BJB
Date Inj'd	: 2/25/2020 0:6: 8	Instrument	:
Sample	: L2409224-01,3,250,250	Quant Date	: 2/25/2024 8:49 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329319_Ev2.D
Acq On : 25 Feb 2024 7:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-10,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:34:00 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

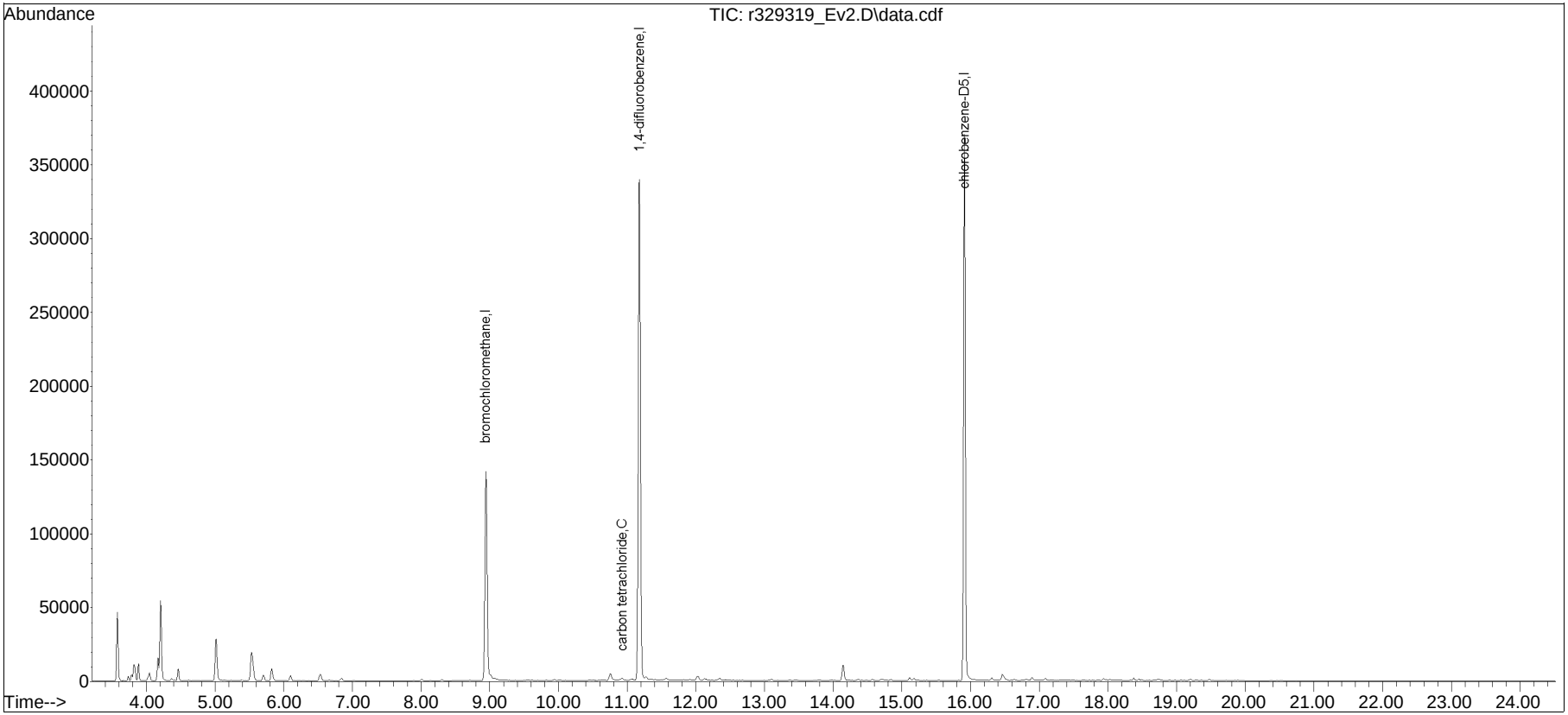
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	158965	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		88.00%	
33) 1,4-difluorobenzene	11.180	114	416628	10.000	ppbV	-0.04
Standard Area = 492655			Recovery =		84.57%	
51) chlorobenzene-D5	15.908	54	80971	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		87.65%	
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	10.317		0	N.D.		
38) carbon tetrachloride	10.927	117	1035	0.085	ppbV	98
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.308		0	N.D.		

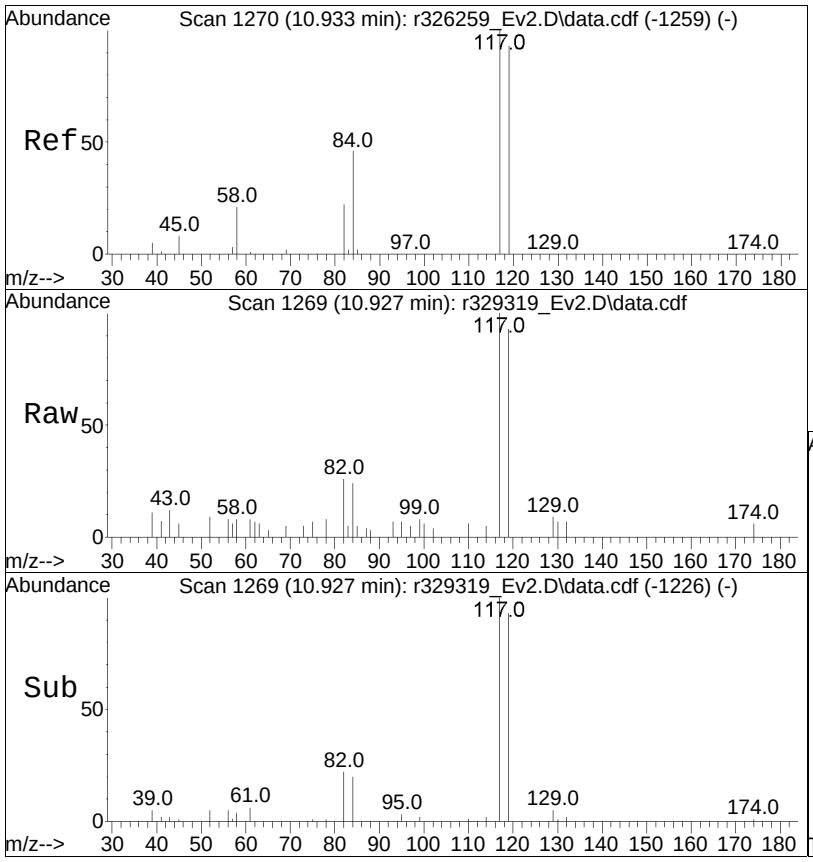
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329319_Ev2.D
Acq On : 25 Feb 2024 7:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-10,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:34:00 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

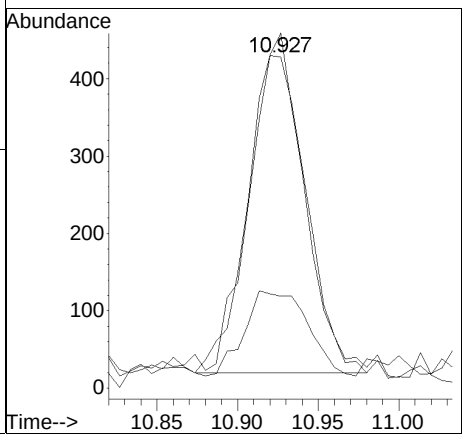




#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 10.927 min Scan# 1269
Delta R.T. -0.040 min
Lab File: r329319_Ev2.D
Acq: 25 Feb 2024 7:50 PM

Tgt Ion:117 Resp: 1035

Ion	Ratio	Lower	Upper
117	100		
119	93.2	75.5	113.3
82	25.9	17.8	26.8



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329319_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:7: 0	Instrument	:
Sample	: L2409224-10,3,250,250	Quant Date	: 2/25/2024 8:34 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329320_Ev2.D
Acq On : 25 Feb 2024 8:30 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-02,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 05:59:50 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

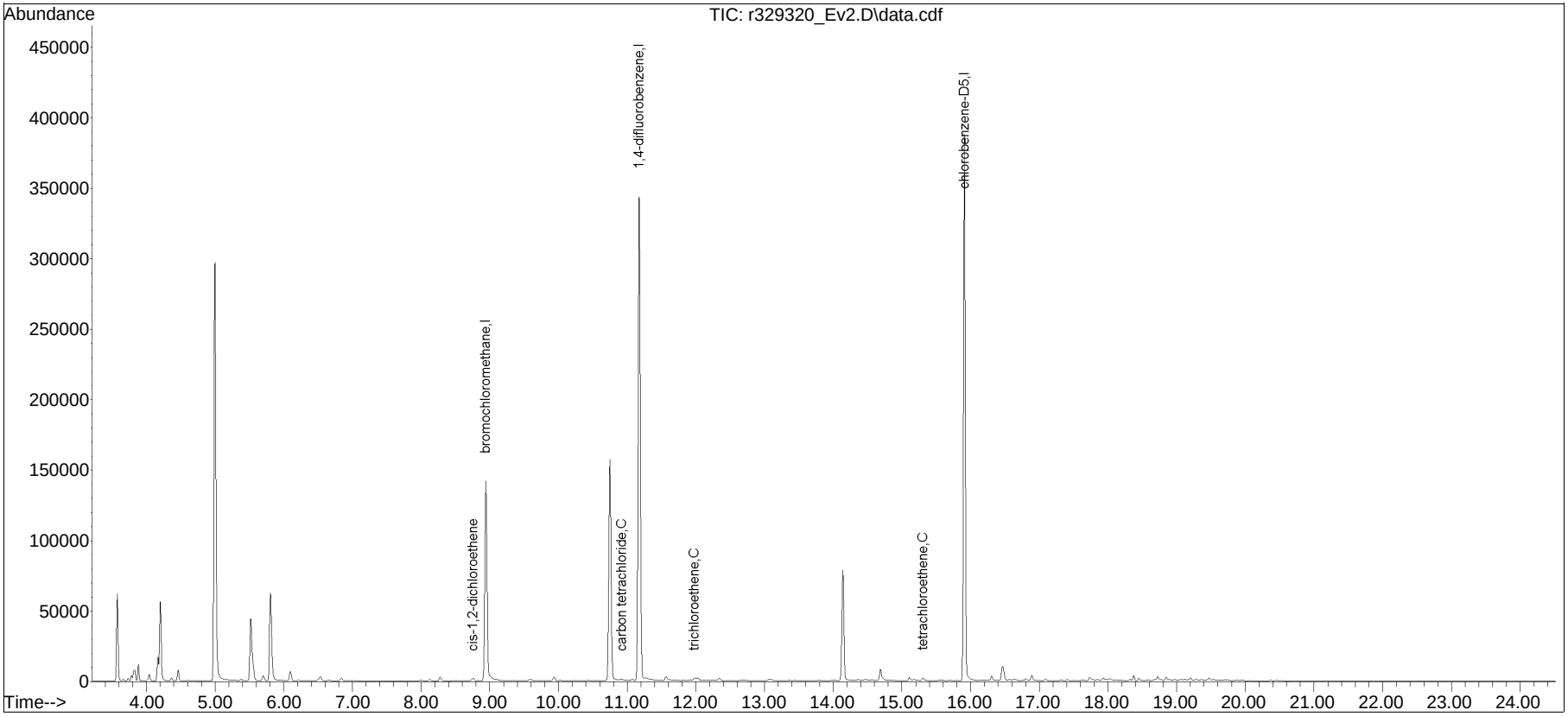
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	157068	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		86.95%	
33) 1,4-difluorobenzene	11.173	114	416087	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		84.46%	
51) chlorobenzene-D5	15.908	54	81821	10.000	ppbV	-0.03
Standard Area = 92375			Recovery =		88.57%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.272		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	8.758	61	1506	0.081	ppbV	93
36) 1,1,1-trichloroethane	10.217		0	N.D.		
38) carbon tetrachloride	10.920	117	993M4	0.081	ppbV	
44) trichloroethene	11.980	130	940	0.067	ppbV	98
57) tetrachloroethene	15.308	166	1135	0.049	ppbV #	89

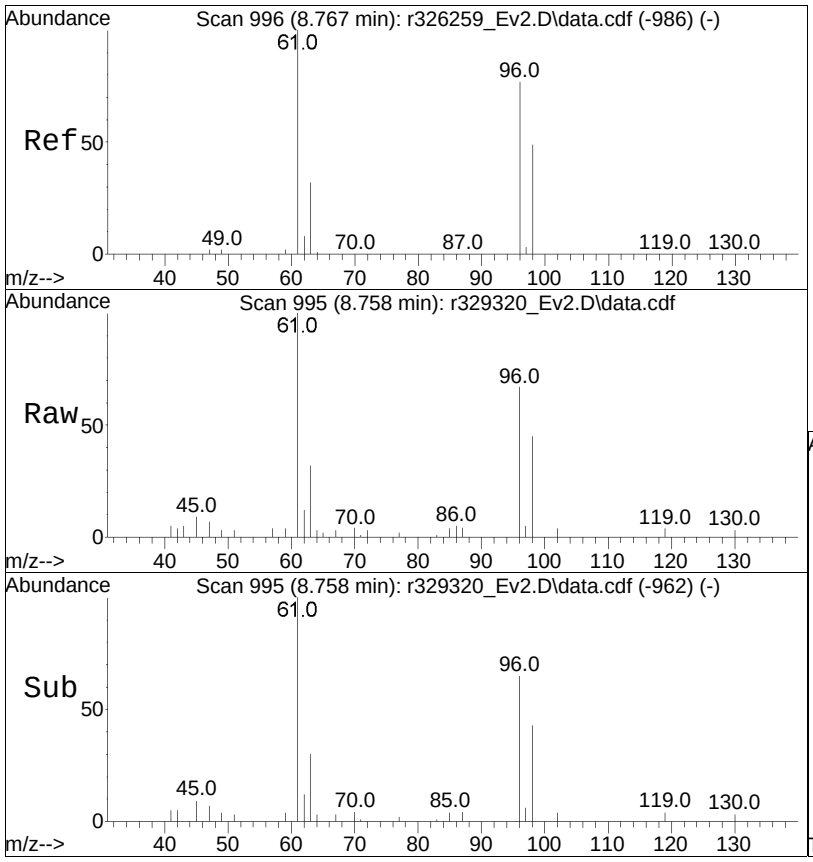
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329320_Ev2.D
Acq On : 25 Feb 2024 8:30 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-02,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 05:59:50 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

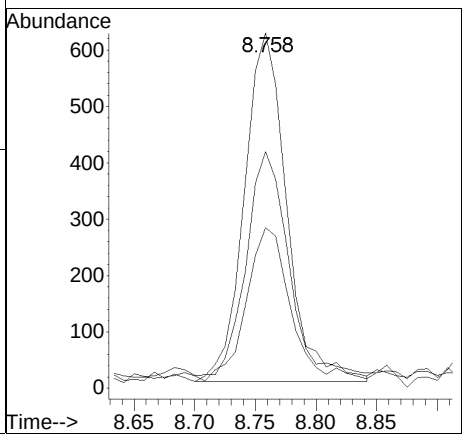


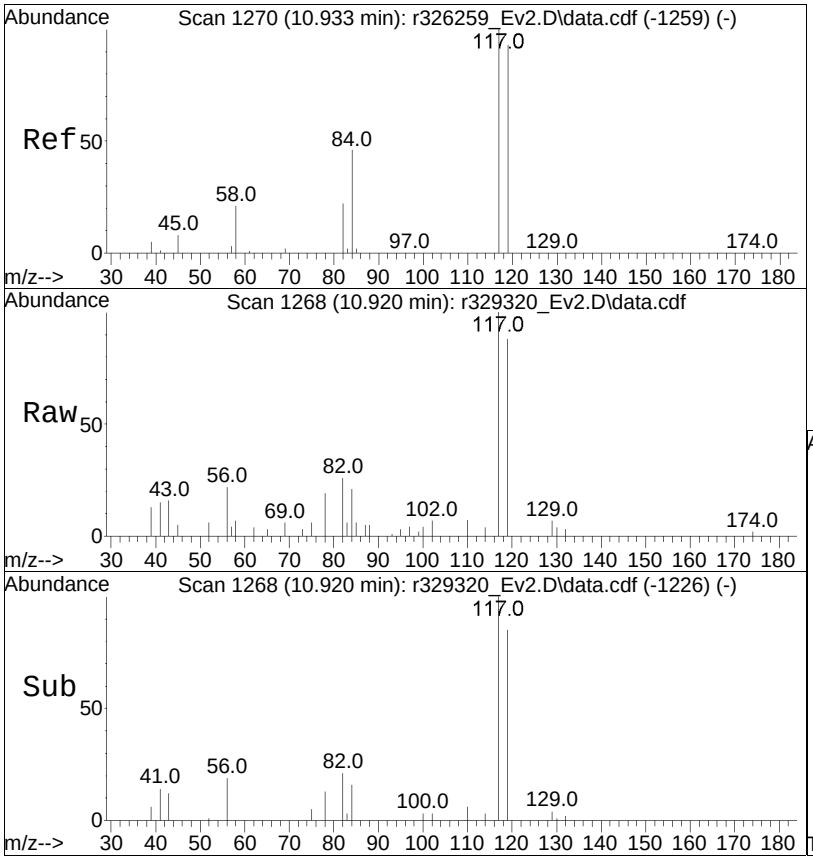


#28
cis-1,2-dichloroethene
Concen: 0.08 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329320_Ev2.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion: 61 Resp: 1506

Ion	Ratio	Lower	Upper
61	100		
96	66.7	59.8	89.6
98	45.2	38.0	57.0

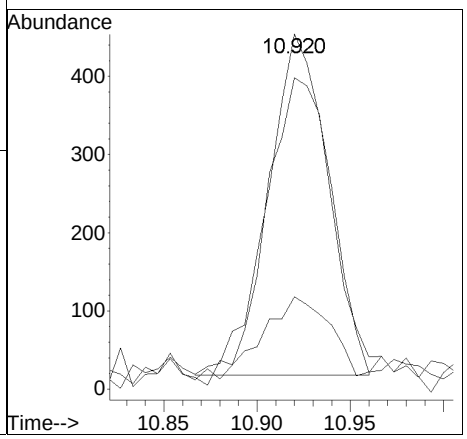


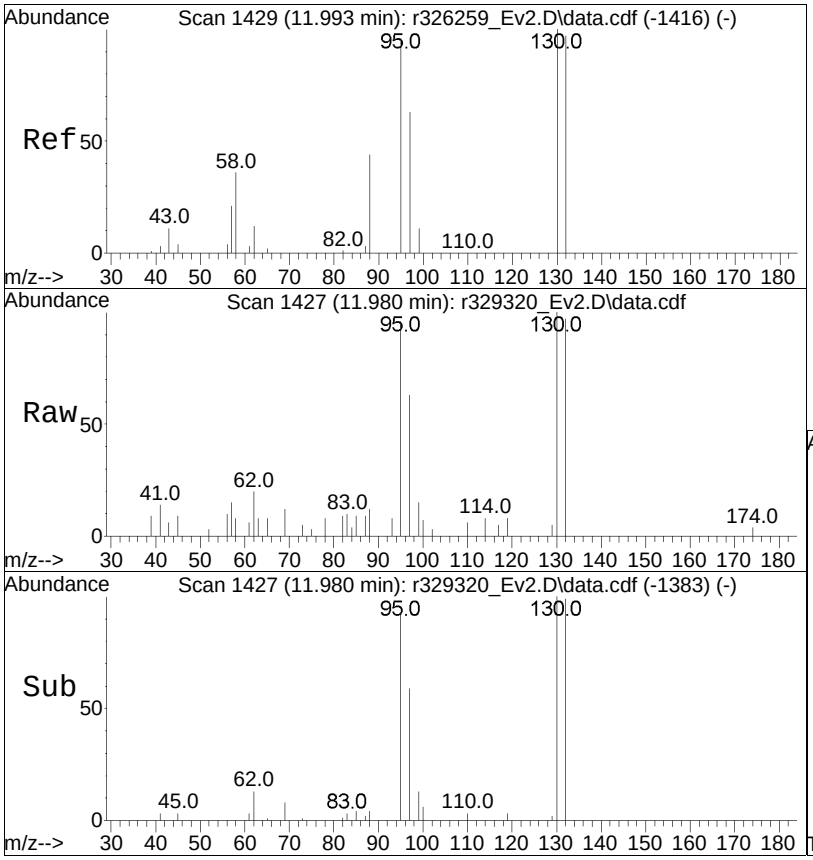


#38
carbon tetrachloride
Concen: 0.08 ppbV m
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329320_Ev2.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:117 Resp: 993

Ion	Ratio	Lower	Upper
117	100		
119	87.7	75.5	113.3
82	26.0	17.8	26.8

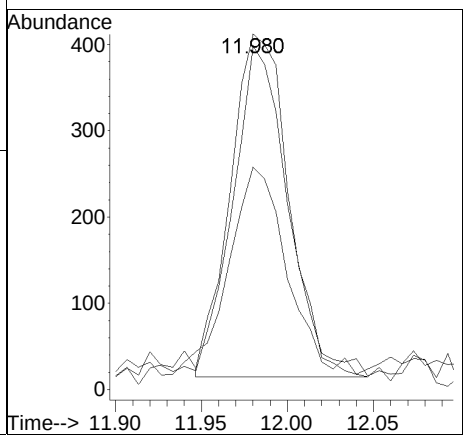


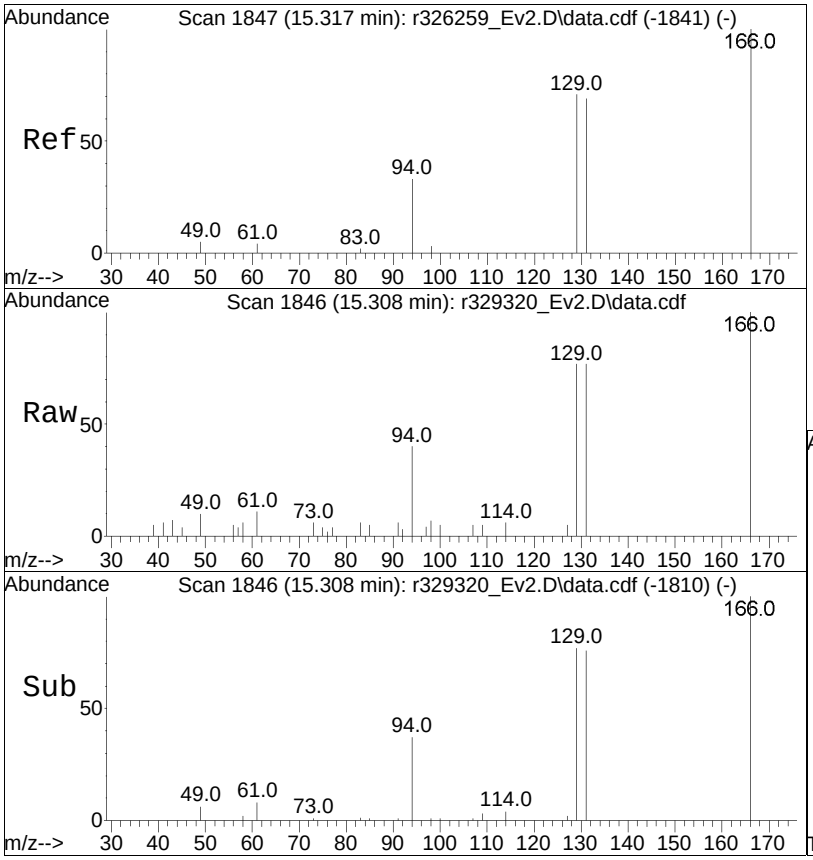


#44
trichloroethene
Concen: 0.07 ppbV
RT: 11.980 min Scan# 1427
Delta R.T. -0.040 min
Lab File: r329320_Ev2.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:130 Resp: 940

Ion	Ratio	Lower	Upper
130	100		
132	96.6	75.4	113.2
97	62.6	49.1	73.7

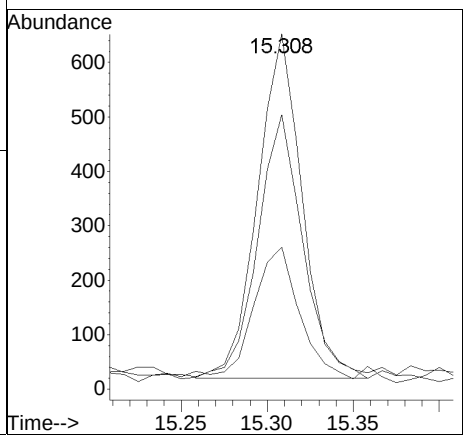




#57
tetrachloroethene
Concen: 0.05 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329320_Ev2.D
Acq: 25 Feb 2024 8:30 PM

Tgt Ion:166 Resp: 1135

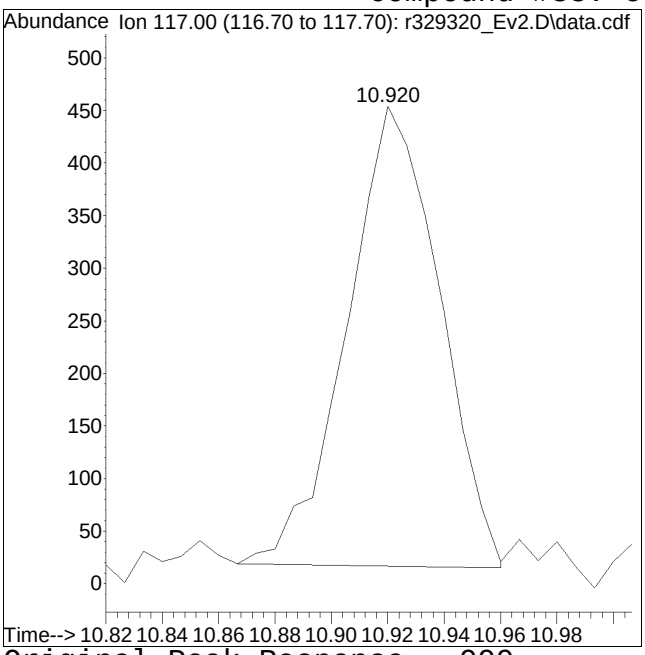
Ion	Ratio	Lower	Upper
166	100		
131	77.3	55.4	83.2
94	40.0	25.3	37.9#



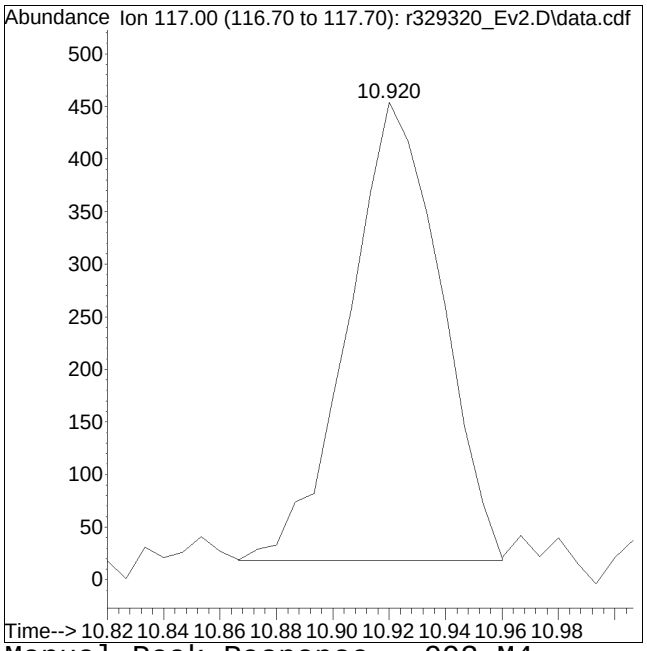
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r329320_Ev2.D Operator : AIRPIANO3:BJB
Date Inj'd : 2/25/2020 0:8: 0 Instrument :
Sample : L2409224-02,3,250,250 Quant Date : 2/26/2024 5:59 am

Compound #38: carbon tetrachloride



Original Peak Response = 999



Manual Peak Response = 993 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329321_Ev2.D
Acq On : 25 Feb 2024 9:10 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-03,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 05:59:55 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

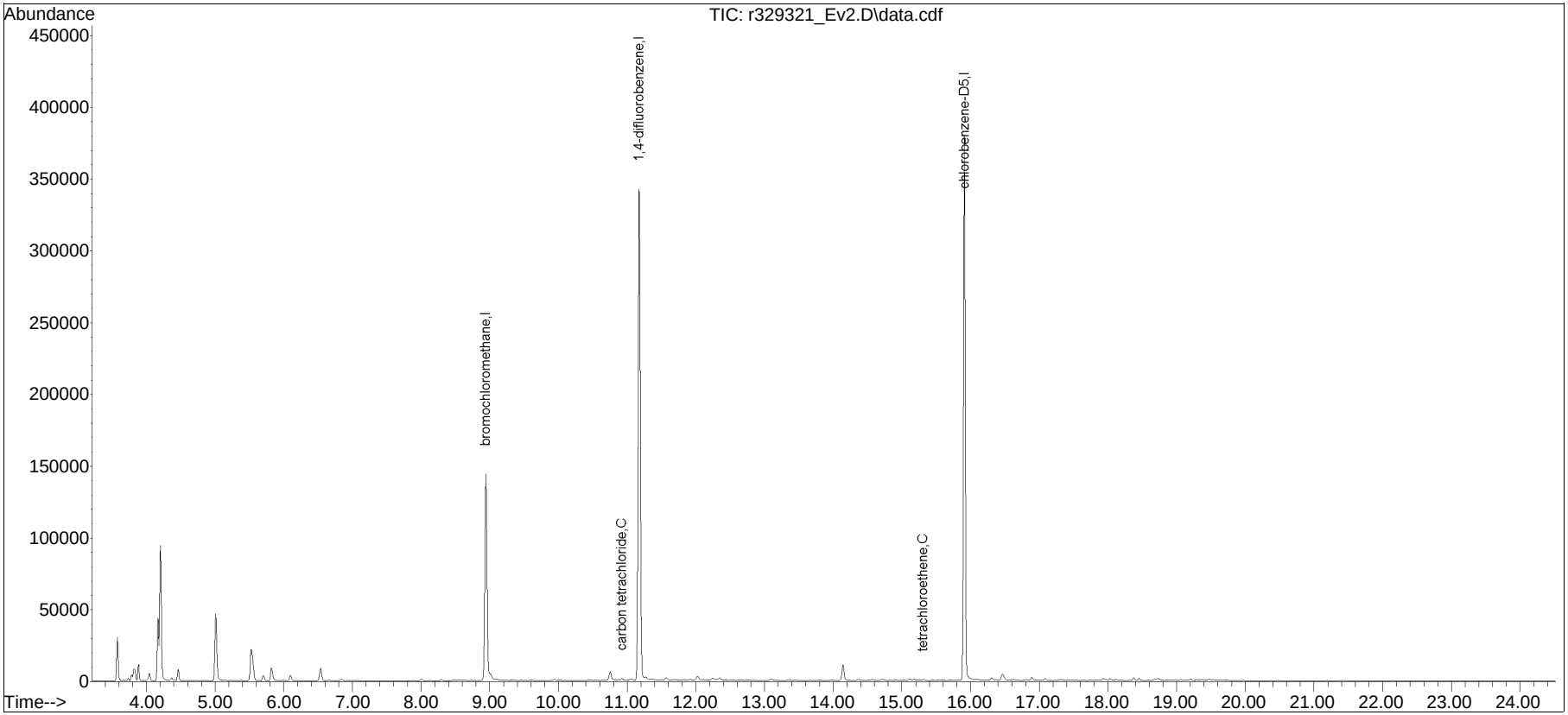
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	158974	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		88.01%	
33) 1,4-difluorobenzene	11.173	114	411767	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		83.58%	
51) chlorobenzene-D5	15.908	54	80754	10.000	ppbV	-0.03
Standard Area = 92375			Recovery =		87.42%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.266		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	10.920	117	1026	0.085	ppbV #	90
44) trichloroethene	11.987		0	N.D.		
57) tetrachloroethene	15.308	166	386	0.017	ppbV #	83

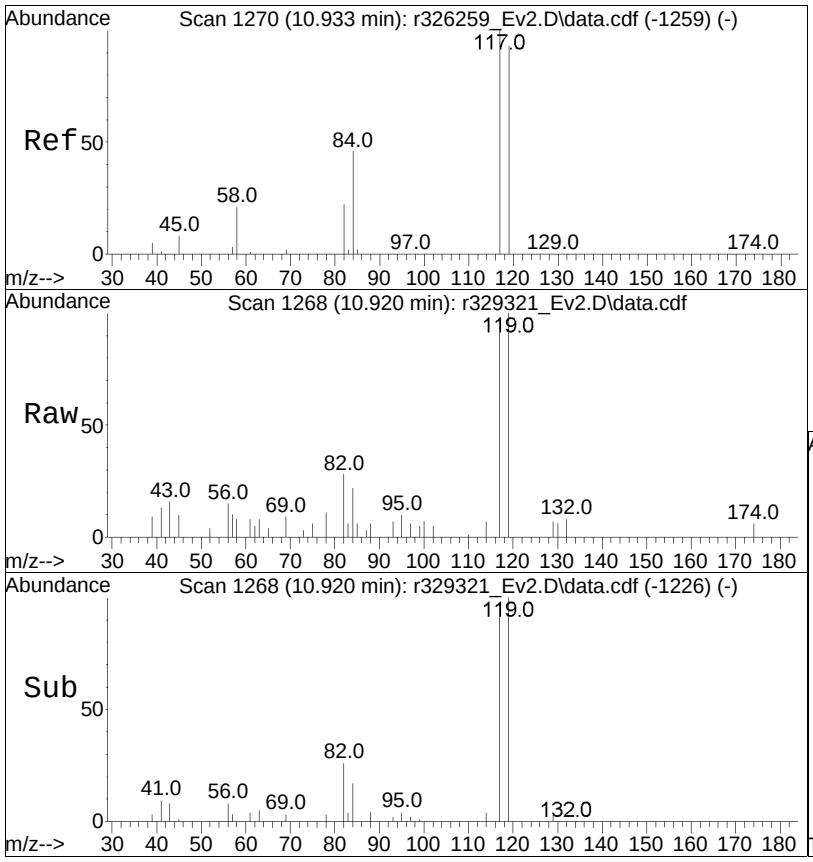
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329321_Ev2.D
Acq On : 25 Feb 2024 9:10 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-03,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 05:59:55 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

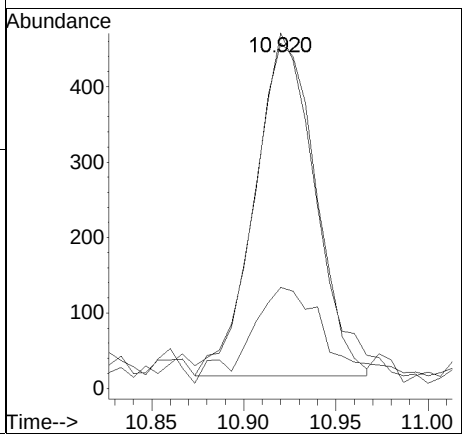


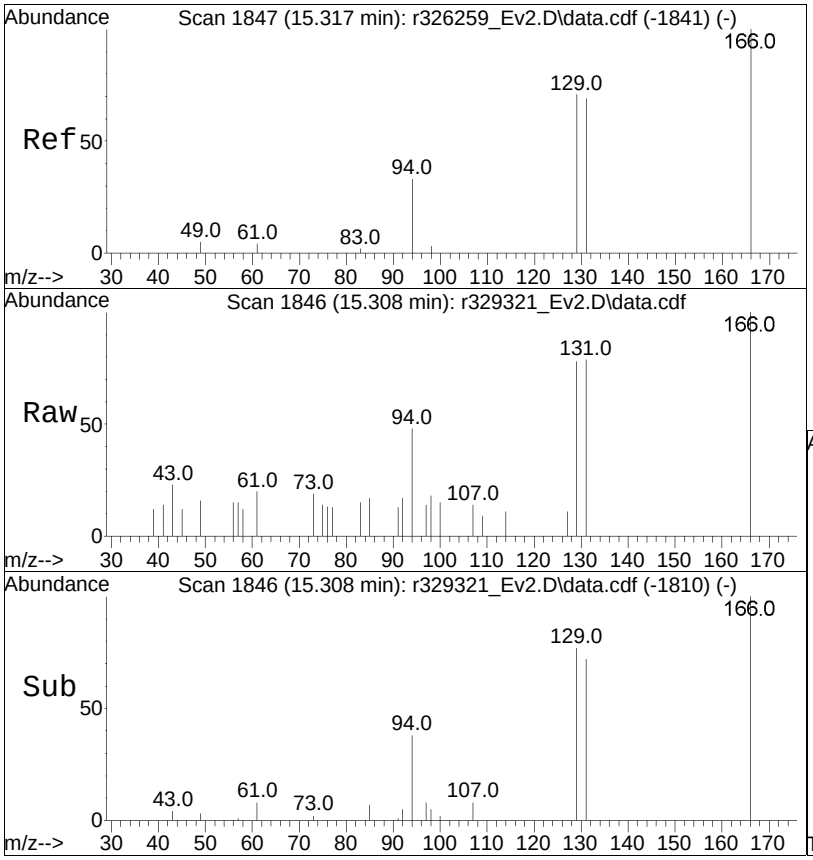


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329321_Ev2.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion:117 Resp: 1026

Ion	Ratio	Lower	Upper
117	100		
119	102.8	75.5	113.3
82	29.3	17.8	26.8#

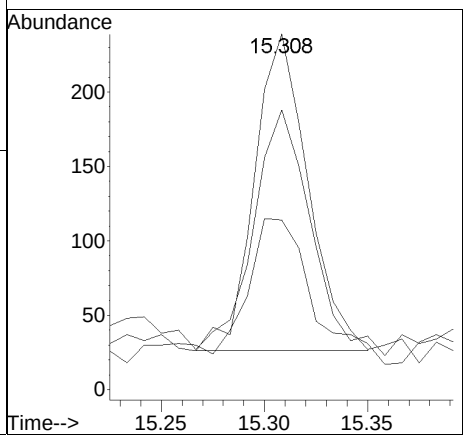




#57
tetrachloroethene
Concen: 0.02 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329321_Ev2.D
Acq: 25 Feb 2024 9:10 PM

Tgt Ion:166 Resp: 386

Ion	Ratio	Lower	Upper
166	100		
131	78.7	55.4	83.2
94	47.7	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329321_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:9: 0	Instrument	:
Sample	: L2409224-03,3,250,250	Quant Date	: 2/26/2024 5:59 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329322_Ev2.D
Acq On : 25 Feb 2024 9:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-04,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:01 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

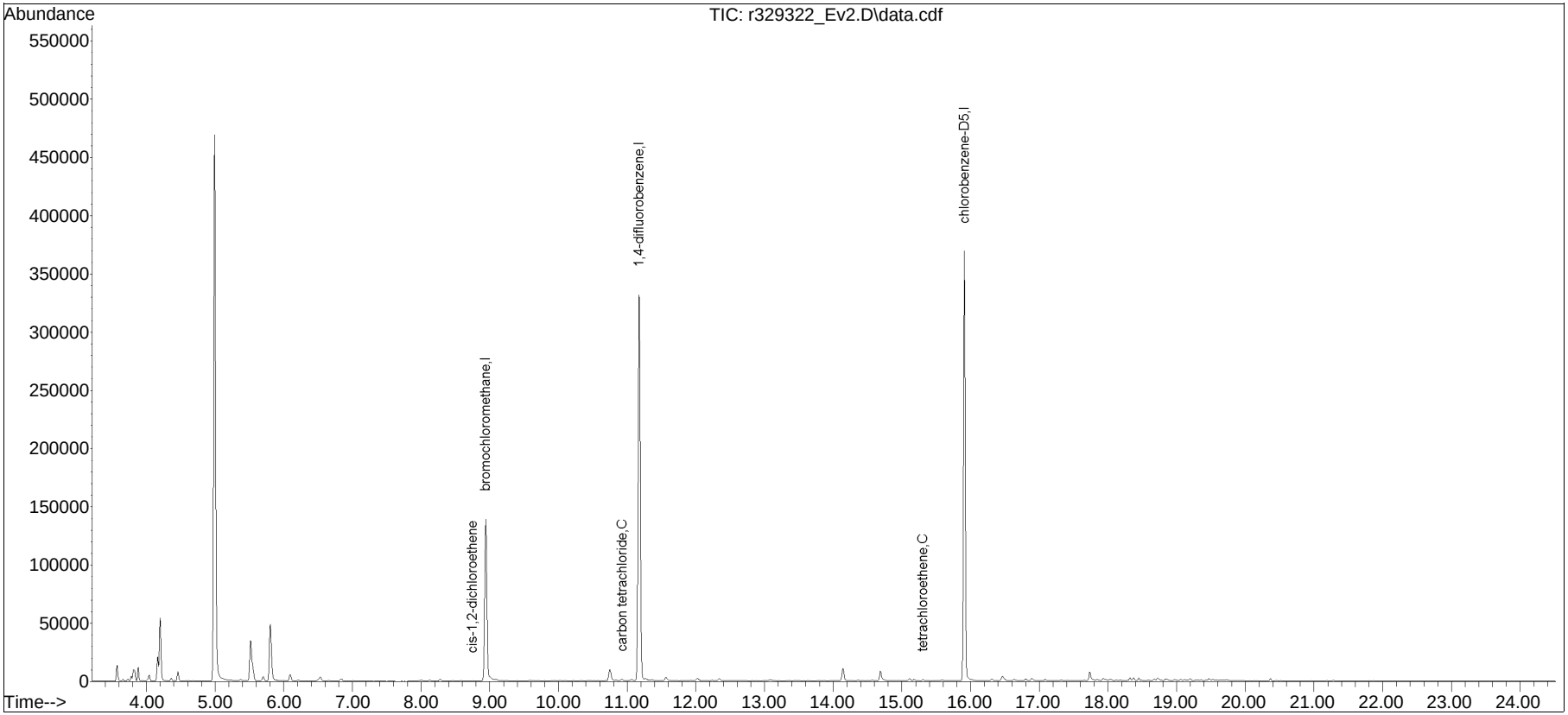
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	154067	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		85.29%	
33) 1,4-difluorobenzene	11.173	114	402079	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		81.61%	
51) chlorobenzene-D5	15.908	54	79243	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		85.78%	
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	8.750	61	246	0.014	ppbV #	81
36) 1,1,1-trichloroethane	10.225		0	N.D.		
38) carbon tetrachloride	10.927	117	1022	0.086	ppbV	93
44) trichloroethene	11.980		0	N.D.		
57) tetrachloroethene	15.308	166	773M4	0.035	ppbV	

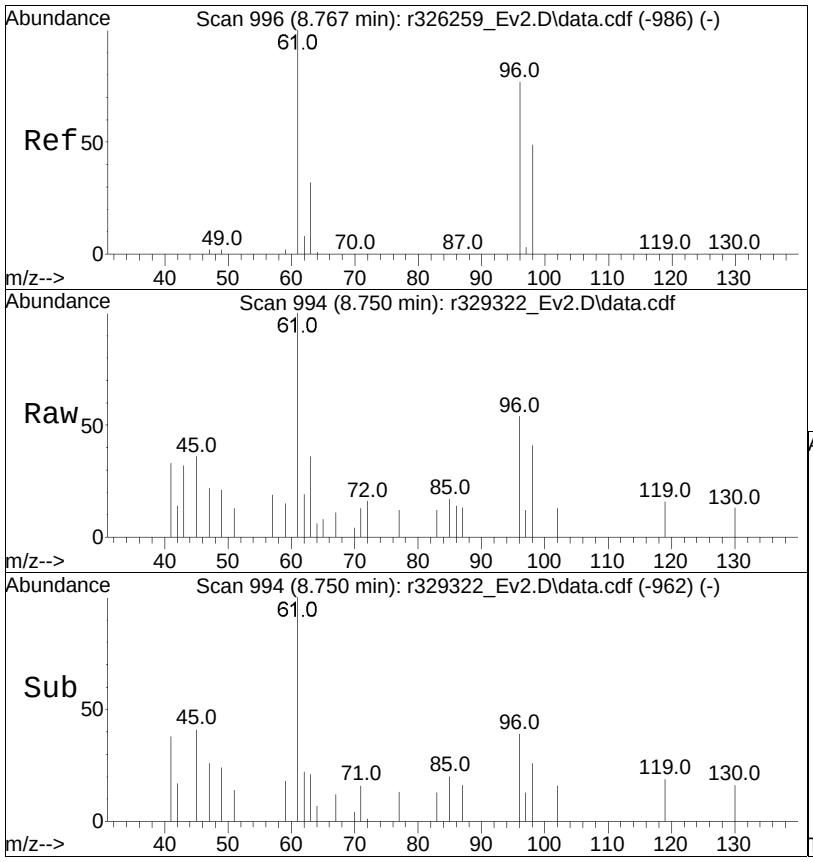
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329322_Ev2.D
Acq On : 25 Feb 2024 9:50 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-04,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:01 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

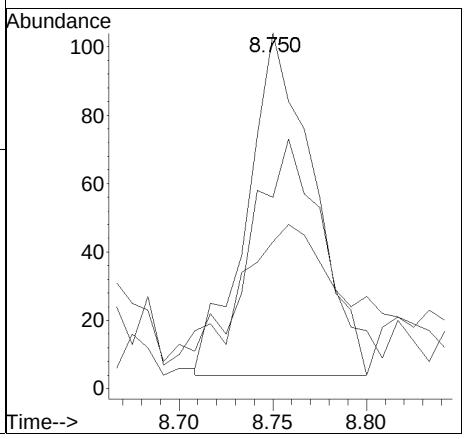


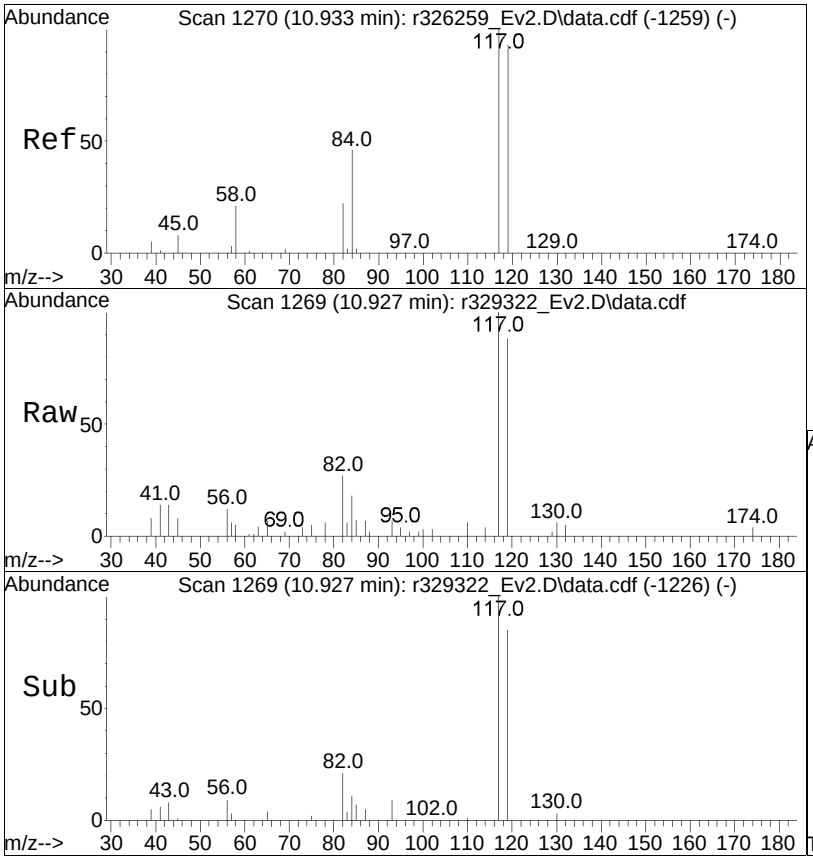


#28
cis-1,2-dichloroethene
Concen: 0.01 ppbV
RT: 8.750 min Scan# 994
Delta R.T. -0.050 min
Lab File: r329322_Ev2.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion: 61 Resp: 246

Ion	Ratio	Lower	Upper
61	100		
96	53.8	59.8	89.6#
98	41.3	38.0	57.0

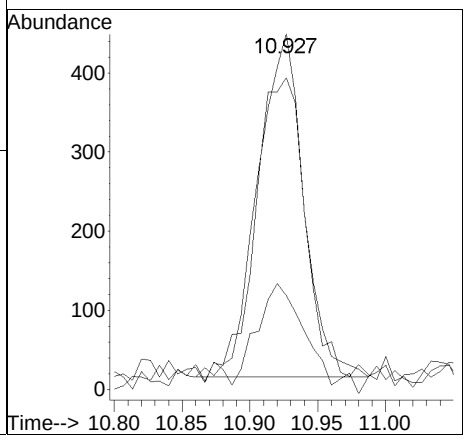


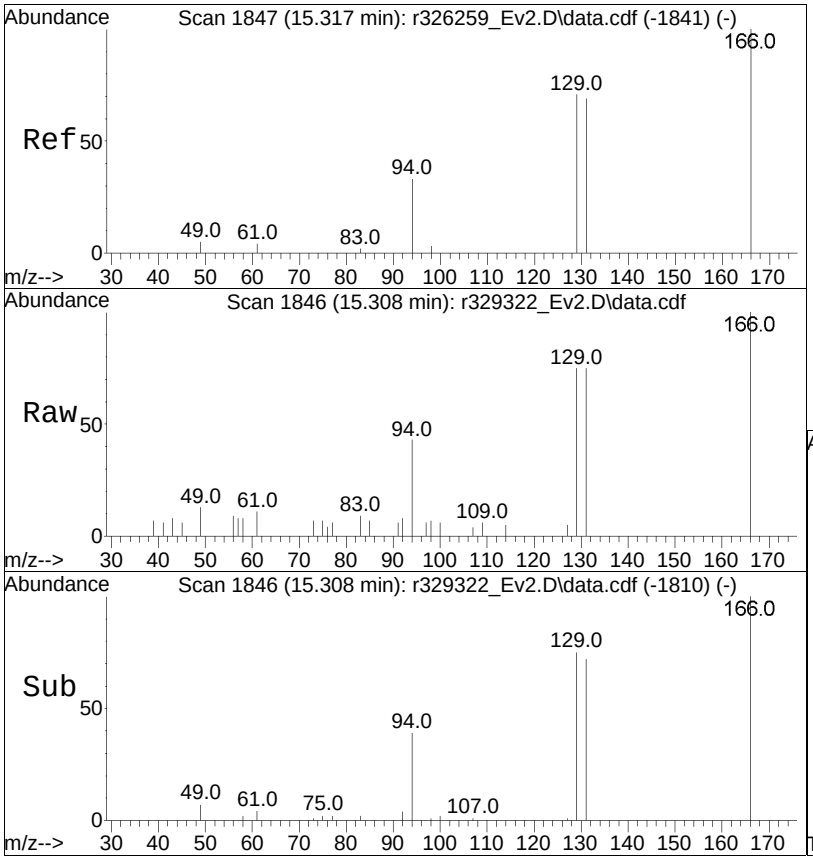


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.927 min Scan# 1269
Delta R.T. -0.040 min
Lab File: r329322_Ev2.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion:117 Resp: 1022

Ion	Ratio	Lower	Upper
117	100		
119	87.8	75.5	113.3
82	26.5	17.8	26.8

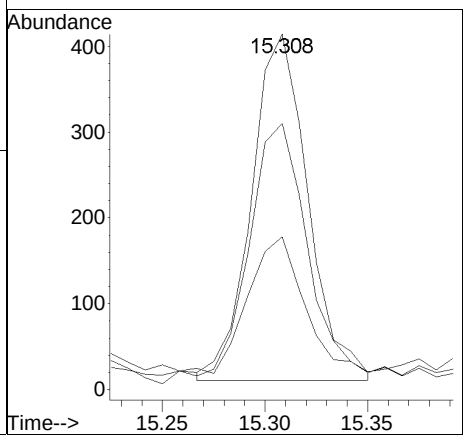




#57
tetrachloroethene
Concen: 0.03 ppbV m
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329322_Ev2.D
Acq: 25 Feb 2024 9:50 PM

Tgt Ion:166 Resp: 773

Ion	Ratio	Lower	Upper
166	100		
131	74.9	55.4	83.2
94	43.0	25.3	37.9#

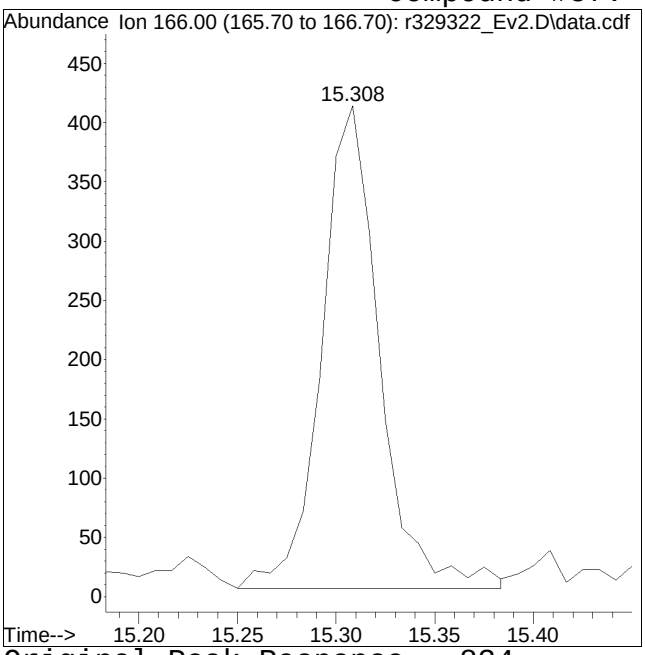


Manual Integration Report

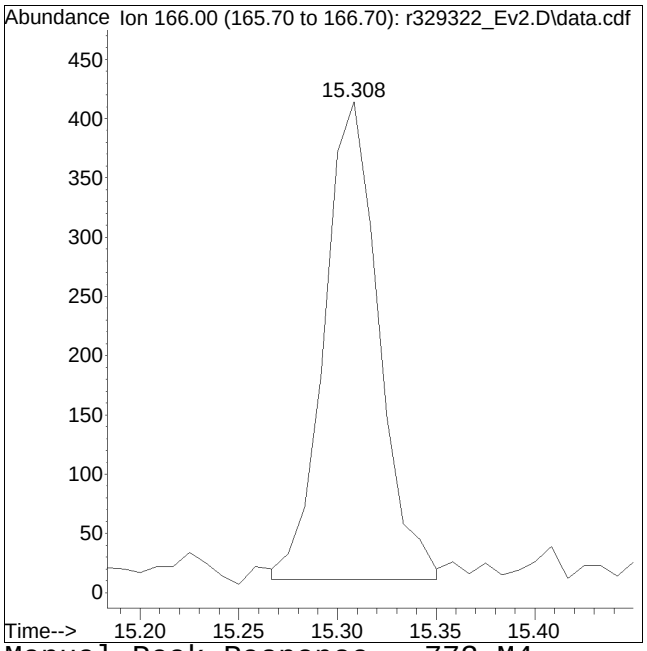
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329322_Ev2.D
Date Inj'd : 2/25/2020 0:9: 0
Sample : L2409224-04,3,250,250

Method : TSIM3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/26/2024 6:00 am

Compound #57: tetrachloroethene



Original Peak Response = 834



Manual Peak Response = 773 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329323_Ev2.D
Acq On : 25 Feb 2024 10:31 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-05,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:07 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

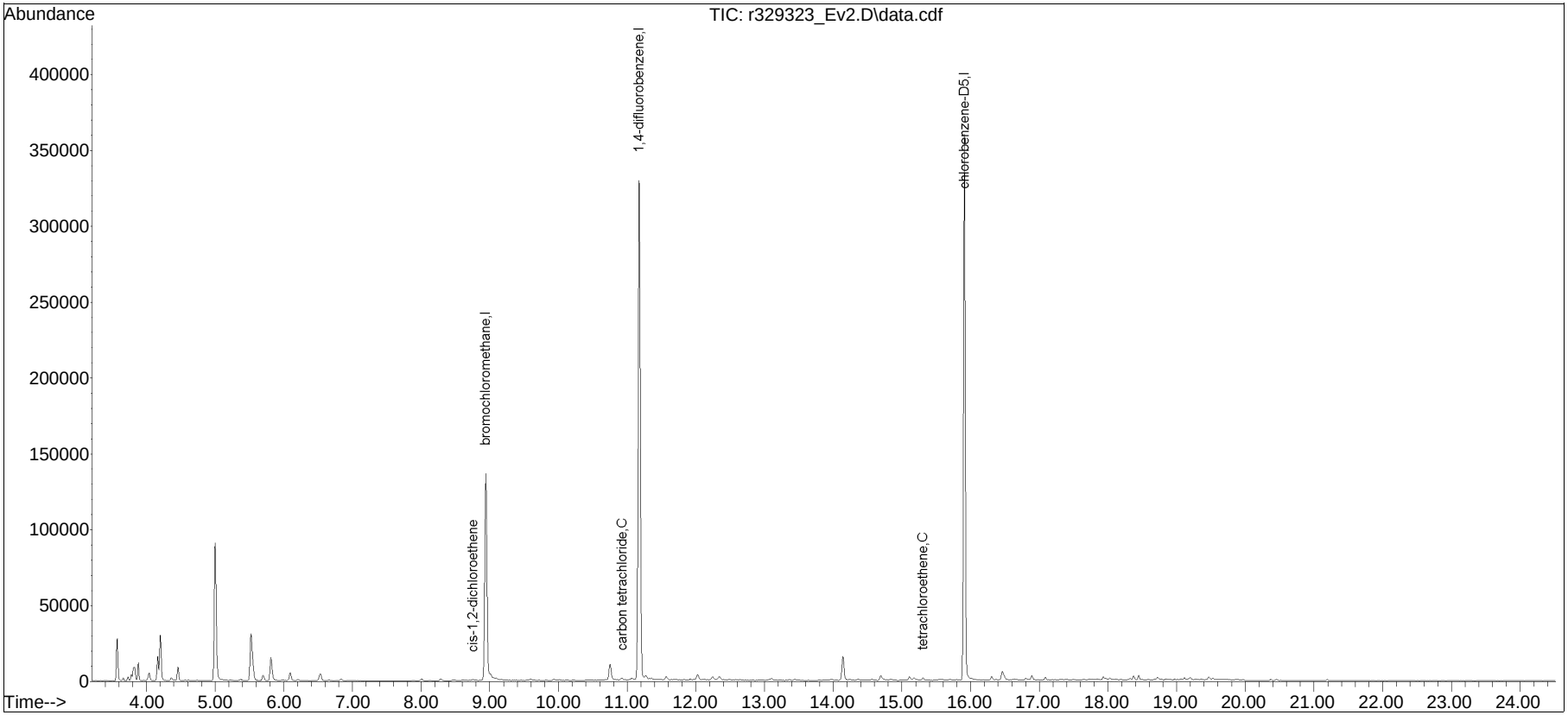
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	151535	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		83.89%	
33) 1,4-difluorobenzene	11.173	114	392137	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		79.60%	
51) chlorobenzene-D5	15.908	54	76849	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		83.19%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.340		0	N.D.		
28) cis-1,2-dichloroethene	8.758	61	293	0.016	ppbV	91
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.927	117	1106	0.096	ppbV #	94
44) trichloroethene	0.000		0	N.D.	d	
57) tetrachloroethene	15.308	166	1005	0.047	ppbV #	90

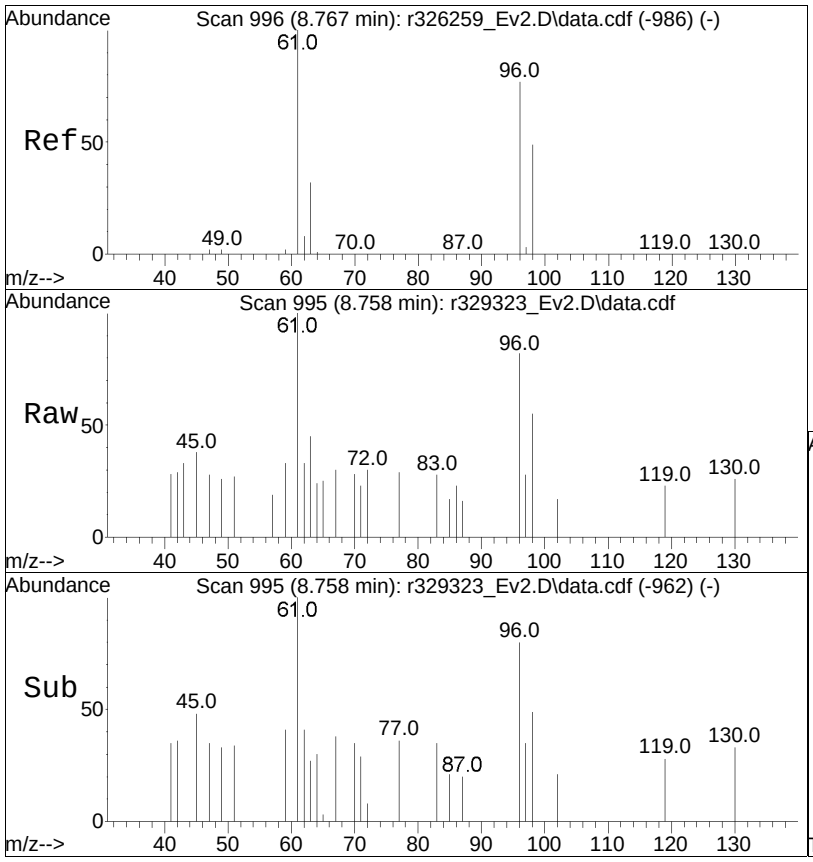
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329323_Ev2.D
Acq On : 25 Feb 2024 10:31 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-05,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:07 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

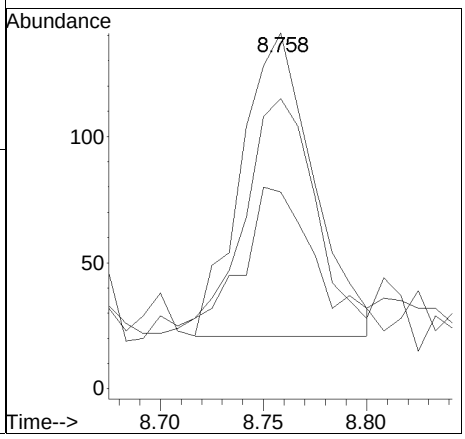


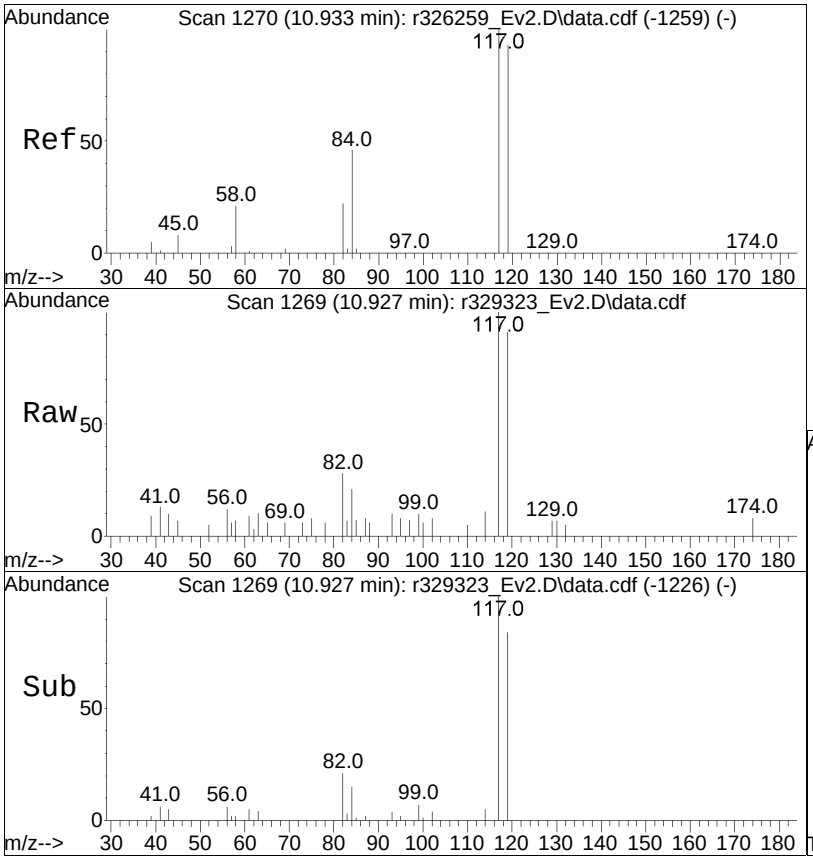


#28
cis-1,2-dichloroethene
Concen: 0.02 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329323_Ev2.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion: 61 Resp: 293

Ion	Ratio	Lower	Upper
61	100		
96	81.6	59.8	89.6
98	55.3	38.0	57.0

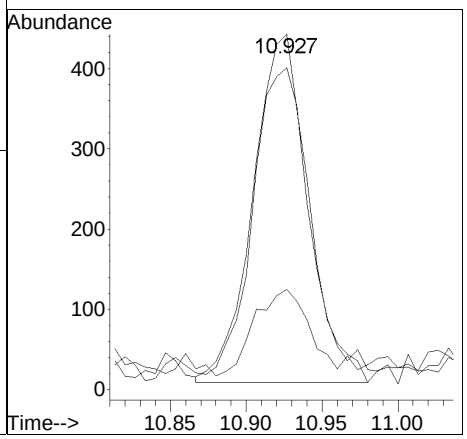


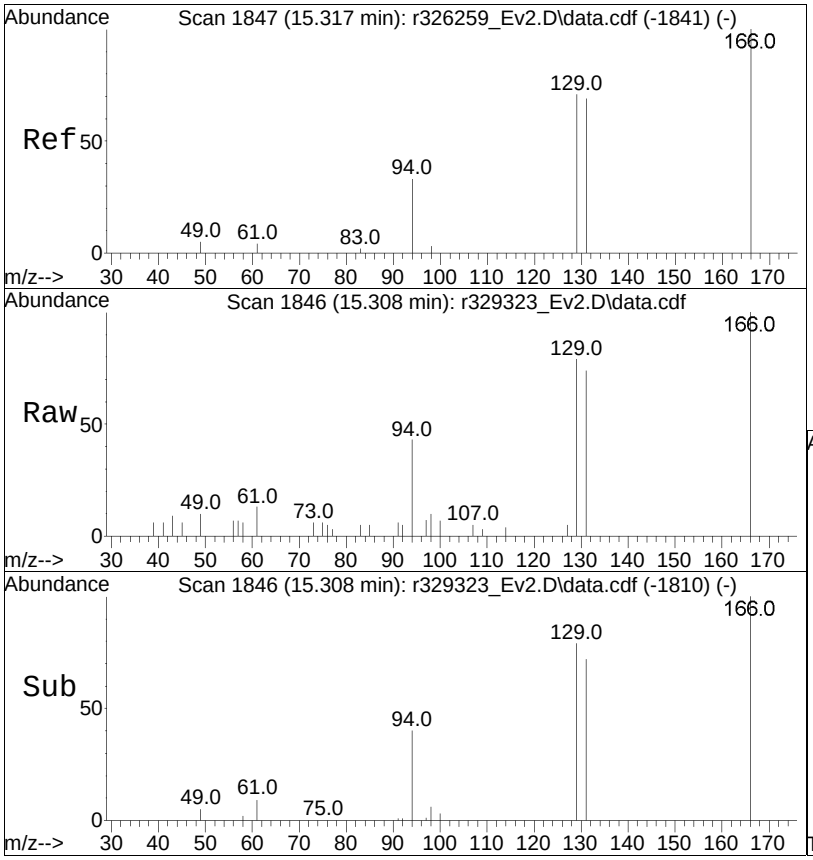


#38
carbon tetrachloride
Concen: 0.10 ppbV
RT: 10.927 min Scan# 1269
Delta R.T. -0.040 min
Lab File: r329323_Ev2.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion:117 Resp: 1106

Ion	Ratio	Lower	Upper
117	100		
119	90.5	75.5	113.3
82	28.2	17.8	26.8#

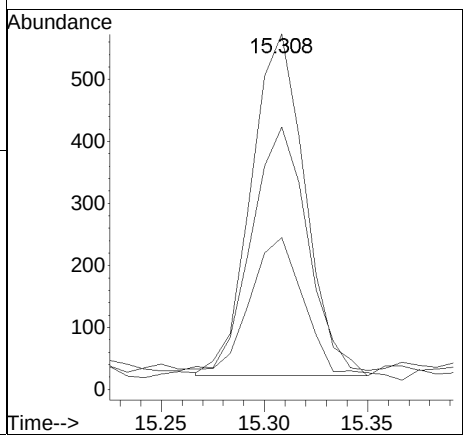




#57
tetrachloroethene
Concen: 0.05 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329323_Ev2.D
Acq: 25 Feb 2024 10:31 PM

Tgt Ion:166 Resp: 1005

Ion	Ratio	Lower	Upper
166	100		
131	73.8	55.4	83.2
94	42.8	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329323_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:0: 1	Instrument	:
Sample	: L2409224-05,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329325_Ev2.D
Acq On : 25 Feb 2024 11:53 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-06,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:19 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

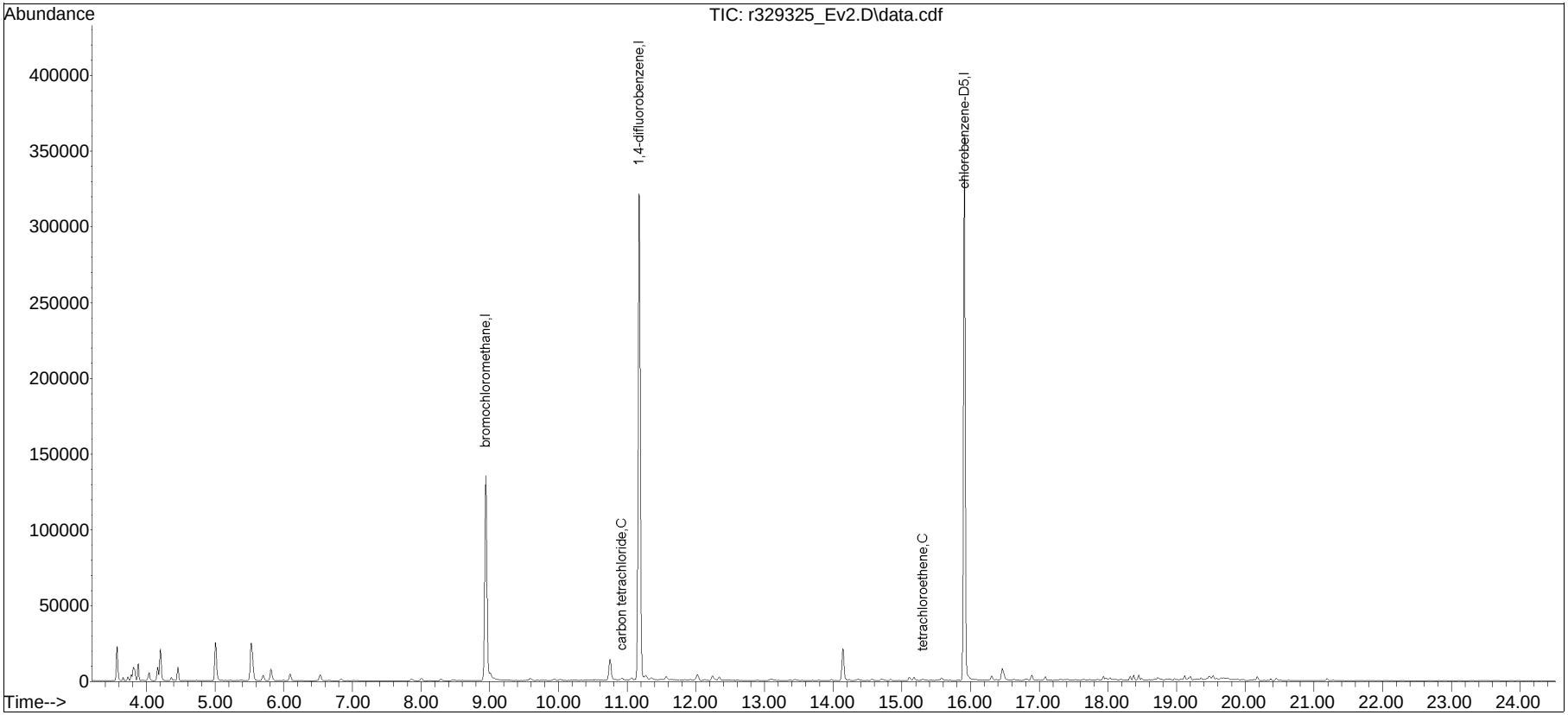
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	150966	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		83.58%	
33) 1,4-difluorobenzene	11.173	114	388674	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		78.89%	
51) chlorobenzene-D5	15.908	54	76042	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		82.32%	
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	8.758		0	N.D.		
36) 1,1,1-trichloroethane	10.208		0	N.D.		
38) carbon tetrachloride	10.920	117	999	0.087	ppbV	96
44) trichloroethene	12.113		0	N.D.		
57) tetrachloroethene	15.308	166	621	0.029	ppbV #	85

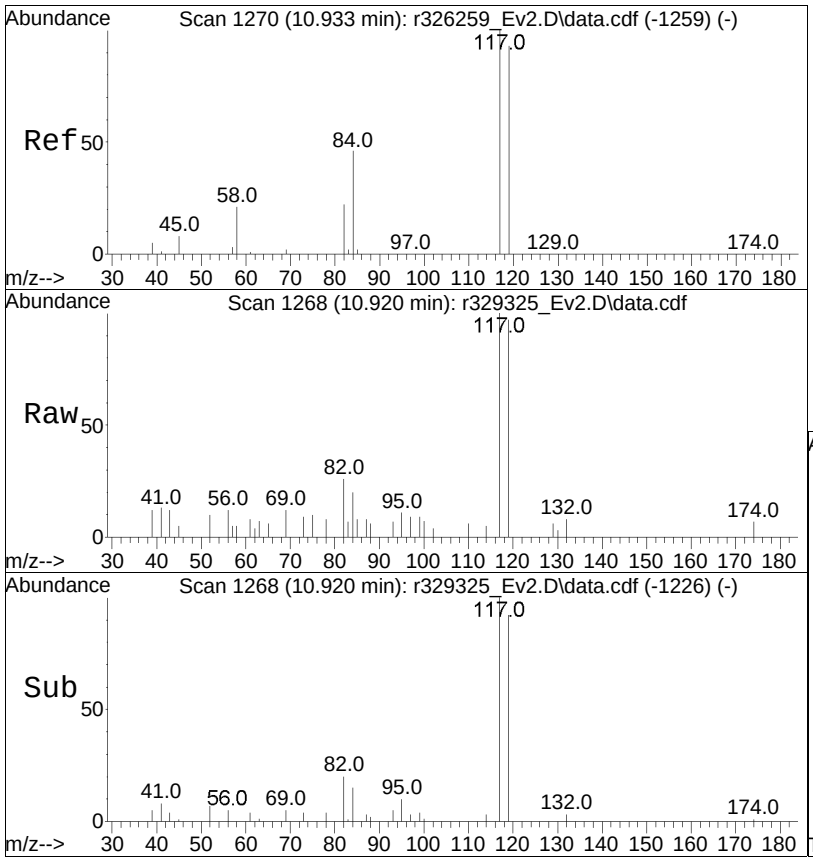
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329325_Ev2.D
Acq On : 25 Feb 2024 11:53 PM
Operator : AIRPIANO3:BJB
Sample : L2409224-06,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:19 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

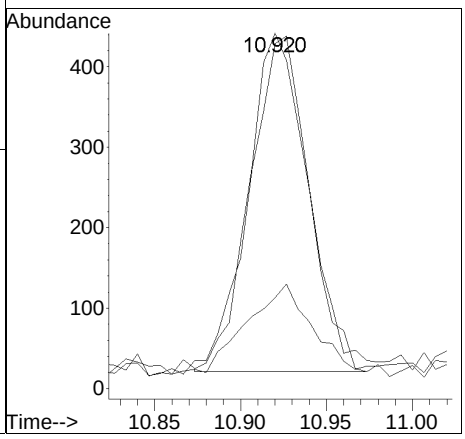


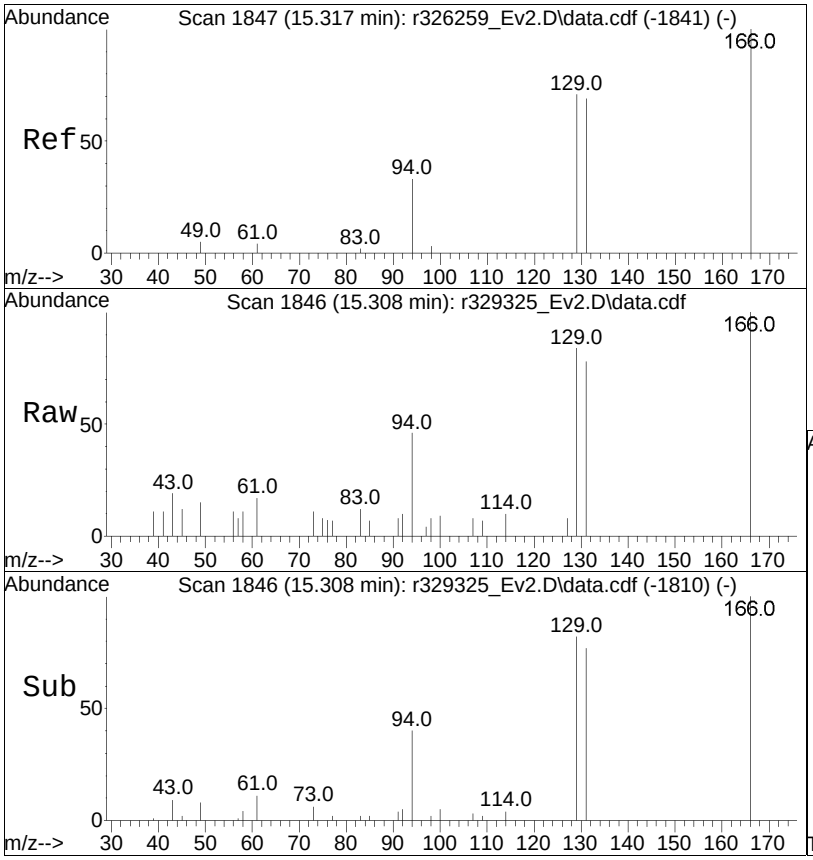


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329325_Ev2.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion:117 Resp: 999

Ion	Ratio	Lower	Upper
117	100		
119	97.1	75.5	113.3
82	25.6	17.8	26.8

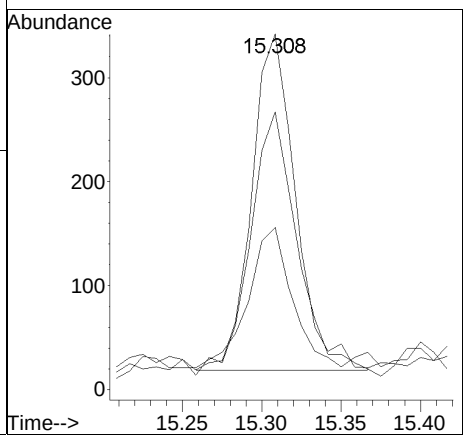




#57
tetrachloroethene
Concen: 0.03 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329325_Ev2.D
Acq: 25 Feb 2024 11:53 PM

Tgt Ion:166 Resp: 621

Ion	Ratio	Lower	Upper
166	100		
131	78.1	55.4	83.2
94	45.6	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329325_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:1: 3	Instrument	:
Sample	: L2409224-06,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329326_Ev2.D
Acq On : 26 Feb 2024 12:34 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

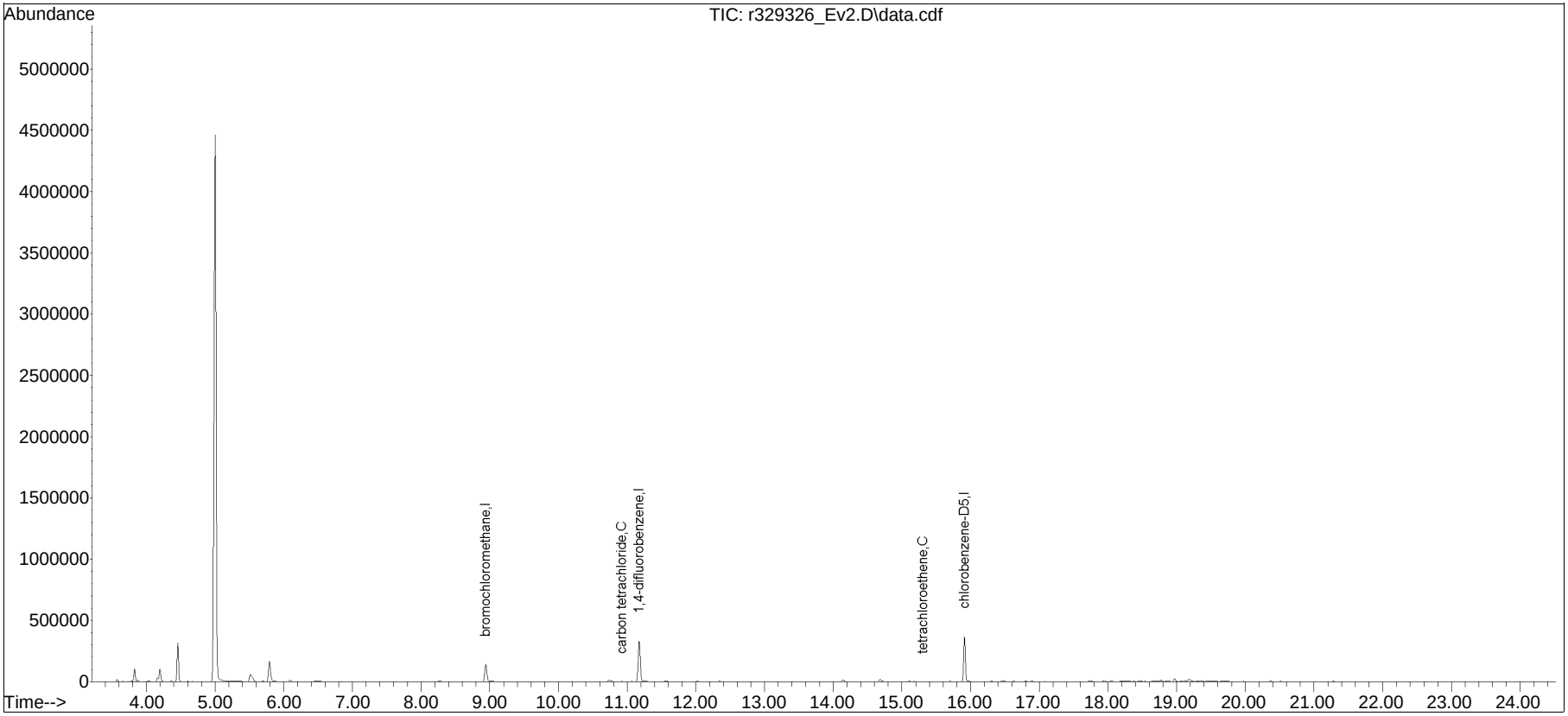
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	153219	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		84.82%	
33) 1,4-difluorobenzene	11.173	114	399112	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		81.01%	
51) chlorobenzene-D5	15.908	54	79773	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		86.36%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	0.000		0	N.D.		
17) 1,1-dichloroethene	6.334		0	N.D.		
28) cis-1,2-dichloroethene	8.750		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.920	117	1111	0.095	ppbV	97
44) trichloroethene	11.940		0	N.D.		
57) tetrachloroethene	15.308	166	316	0.014	ppbV #	86

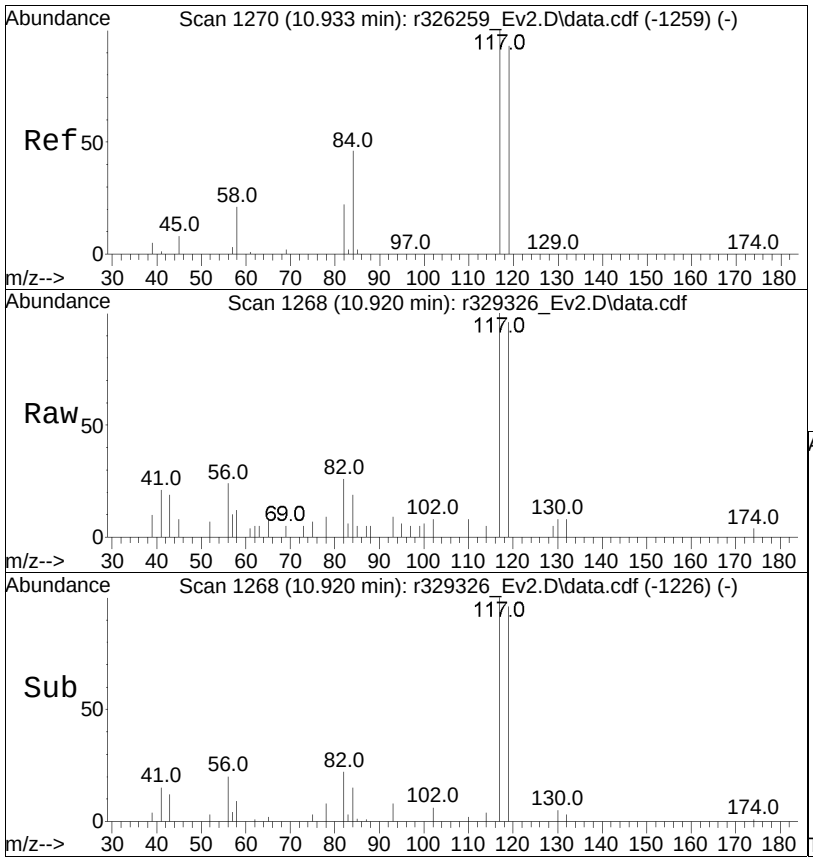
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329326_Ev2.D
Acq On : 26 Feb 2024 12:34 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-07,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:25 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

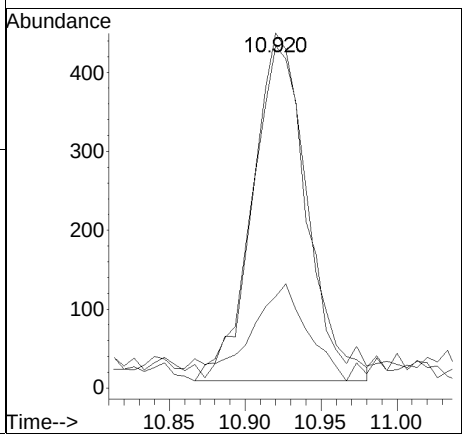


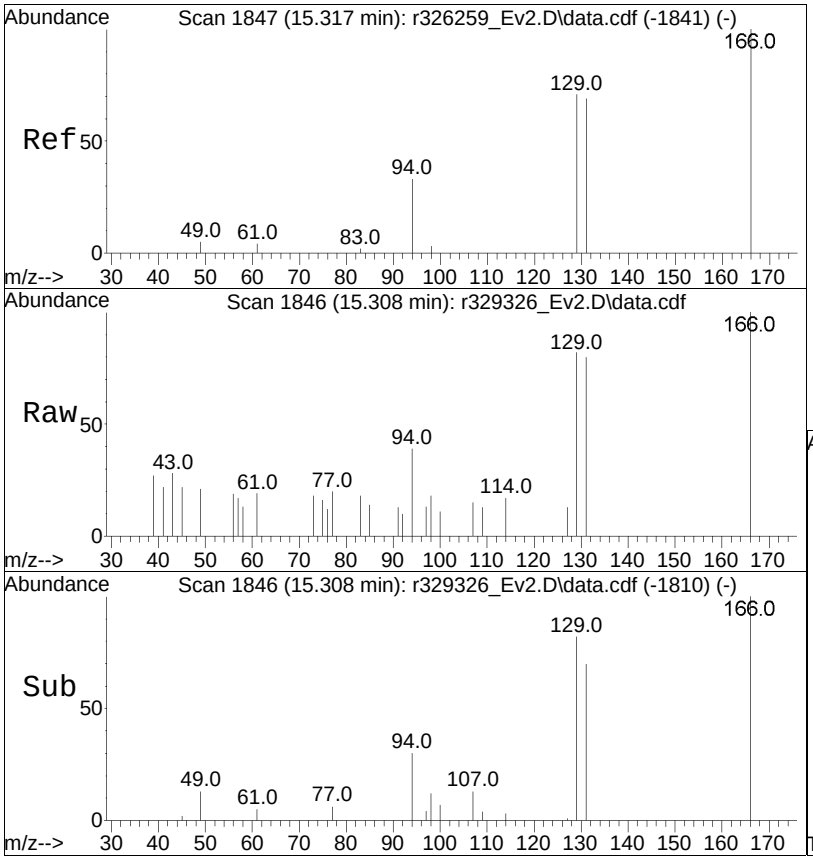


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329326_Ev2.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion:117 Resp: 1111

Ion	Ratio	Lower	Upper
117	100		
119	96.4	75.5	113.3
82	25.8	17.8	26.8

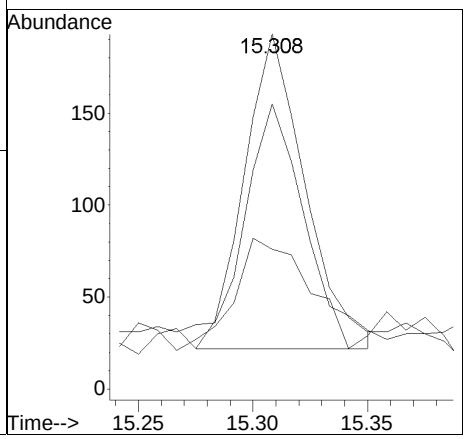




#57
tetrachloroethene
Concen: 0.01 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329326_Ev2.D
Acq: 26 Feb 2024 12:34 AM

Tgt Ion:166 Resp: 316

Ion	Ratio	Lower	Upper
166	100		
131	80.3	55.4	83.2
94	39.4	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329326_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/26/2020 0:2: 4	Instrument	:
Sample	: L2409224-07,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329327_Ev2.D
Acq On : 26 Feb 2024 1:14 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-08,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:31 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

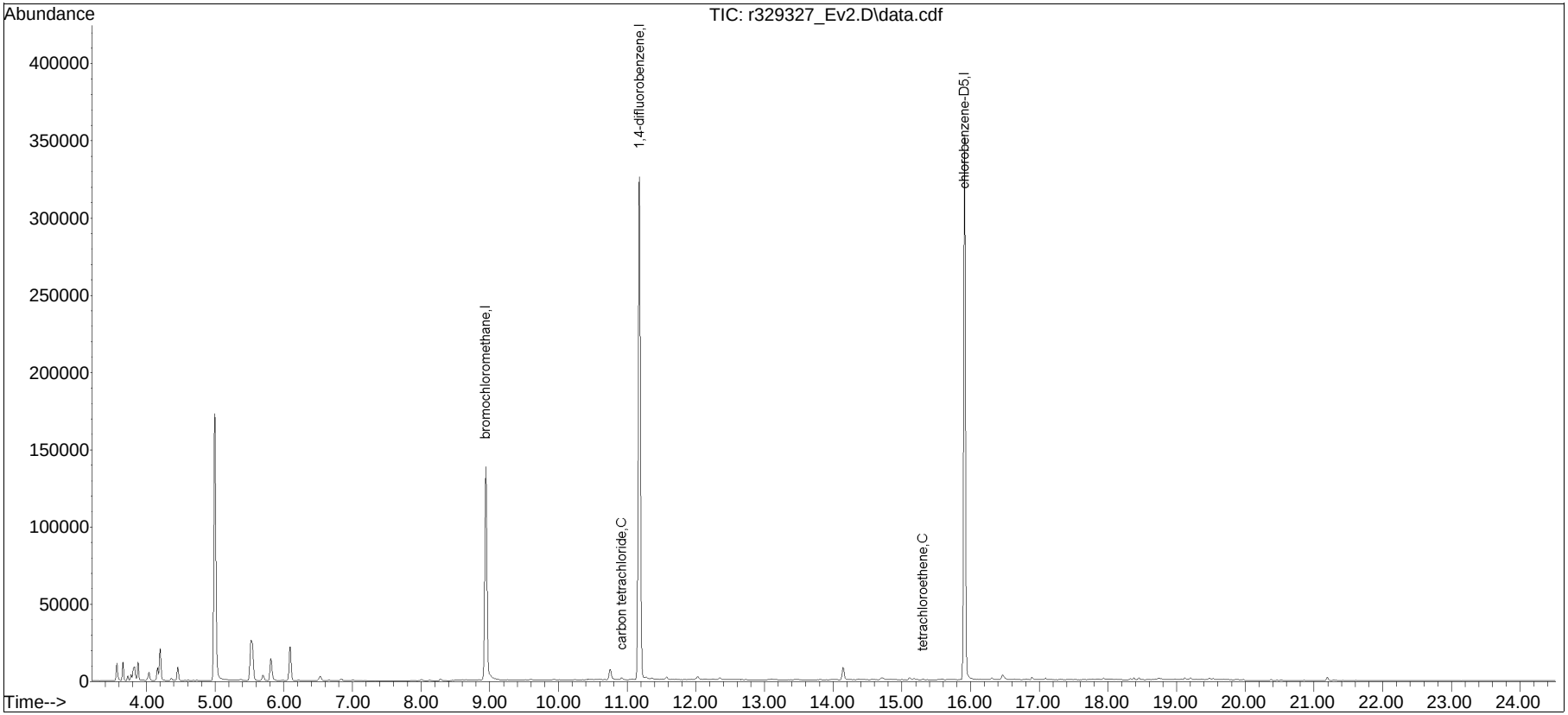
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	153090	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		84.75%	
33) 1,4-difluorobenzene	11.180	114	395959	10.000	ppbV	-0.04
Standard Area = 492655			Recovery =		80.37%	
51) chlorobenzene-D5	15.908	54	78506	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		84.99%	
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	8.750		0	N.D.		
36) 1,1,1-trichloroethane	10.217		0	N.D.		
38) carbon tetrachloride	10.920	117	1024	0.088	ppbV #	95
44) trichloroethene	0.000		0	N.D.		
57) tetrachloroethene	15.308	166	369	0.017	ppbV #	79

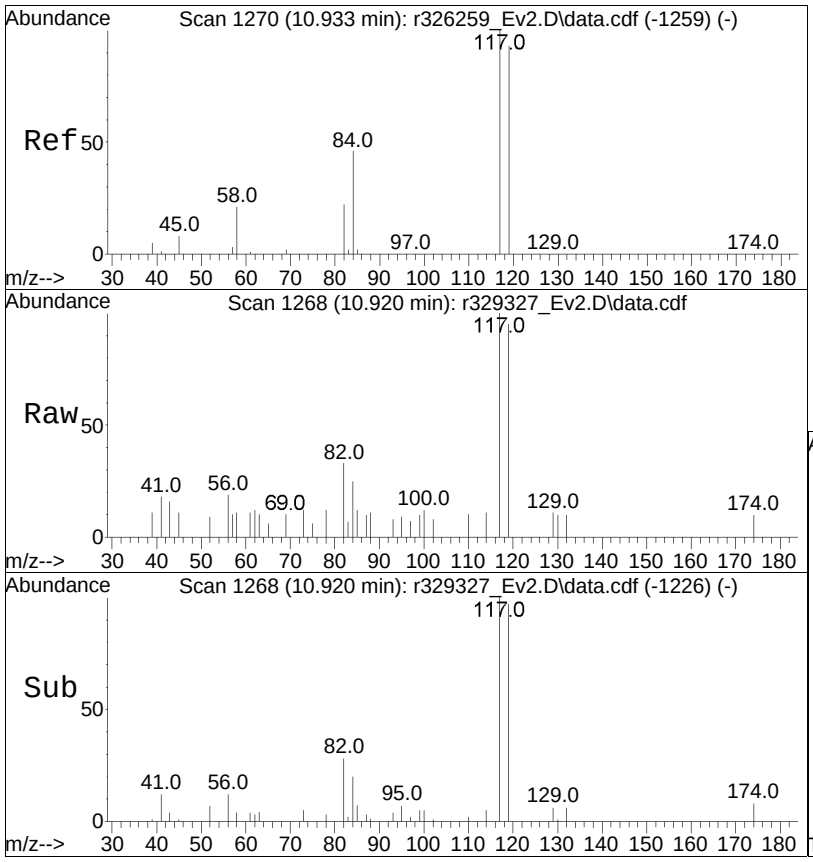
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329327_Ev2.D
Acq On : 26 Feb 2024 1:14 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-08,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:31 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

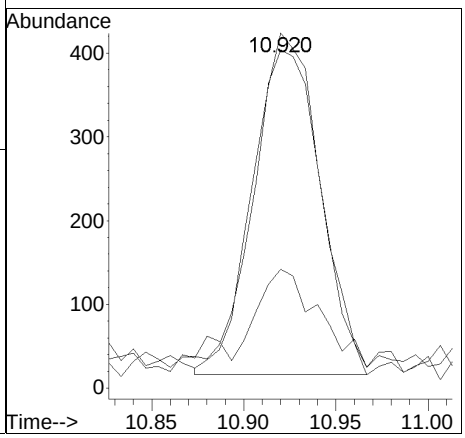


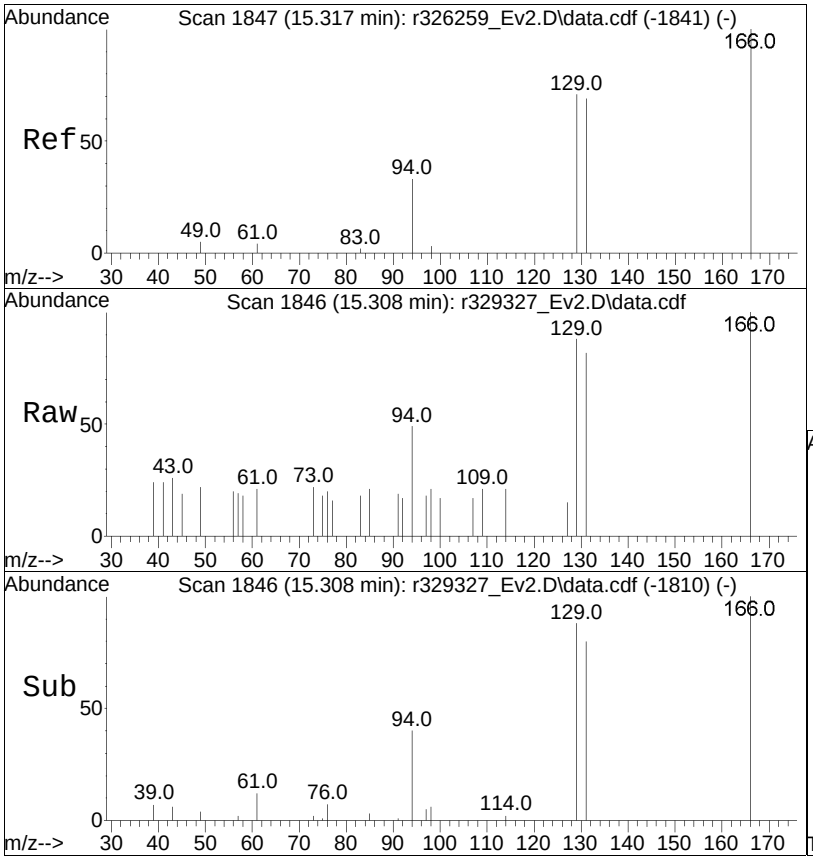


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329327_Ev2.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion:117 Resp: 1024

Ion	Ratio	Lower	Upper
117	100		
119	95.3	75.5	113.3
82	33.5	17.8	26.8#

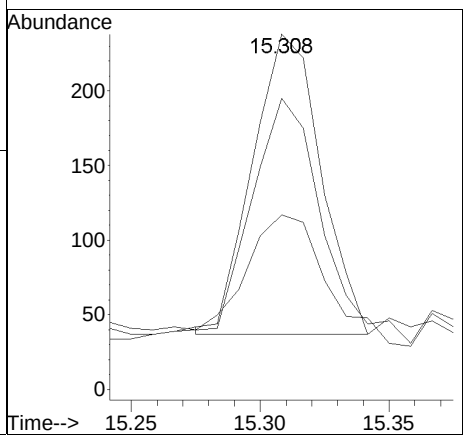




#57
tetrachloroethene
Concen: 0.02 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329327_Ev2.D
Acq: 26 Feb 2024 1:14 AM

Tgt Ion:166 Resp: 369

Ion	Ratio	Lower	Upper
166	100		
131	81.9	55.4	83.2
94	49.2	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329327_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/26/2020 0:1: 4	Instrument	:
Sample	: L2409224-08,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329328_Ev2.D
Acq On : 26 Feb 2024 1:55 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-09,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:37 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

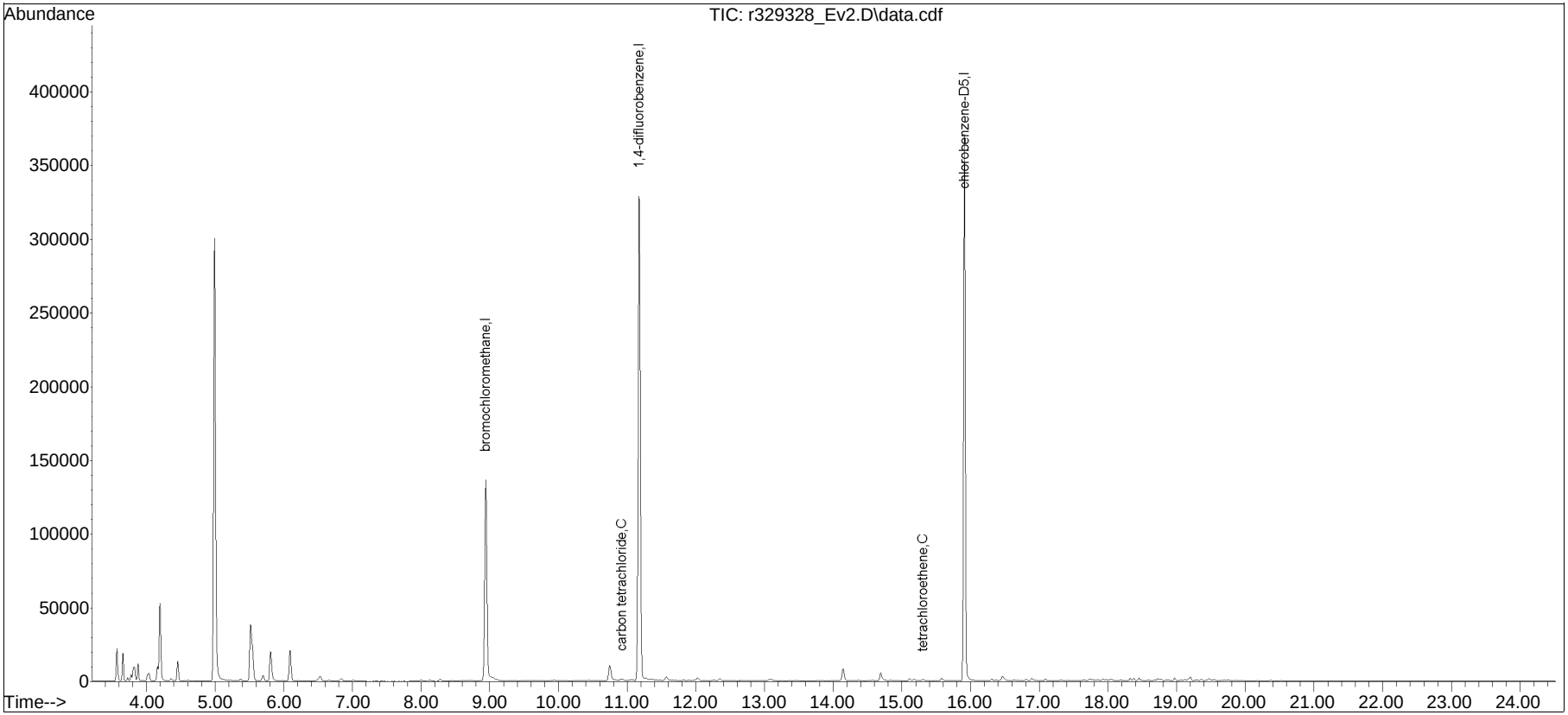
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	151041	10.000	ppbV	-0.04
Standard Area = 180634			Recovery = 83.62%			
33) 1,4-difluorobenzene	11.173	114	393654	10.000	ppbV	-0.05
Standard Area = 492655			Recovery = 79.90%			
51) chlorobenzene-D5	15.908	54	78783	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery = 85.29%			
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	8.750		0	N.D.		
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.920	117	1044	0.090	ppbV #	95
44) trichloroethene	11.980		0	N.D.		
57) tetrachloroethene	15.308	166	609	0.028	ppbV #	86

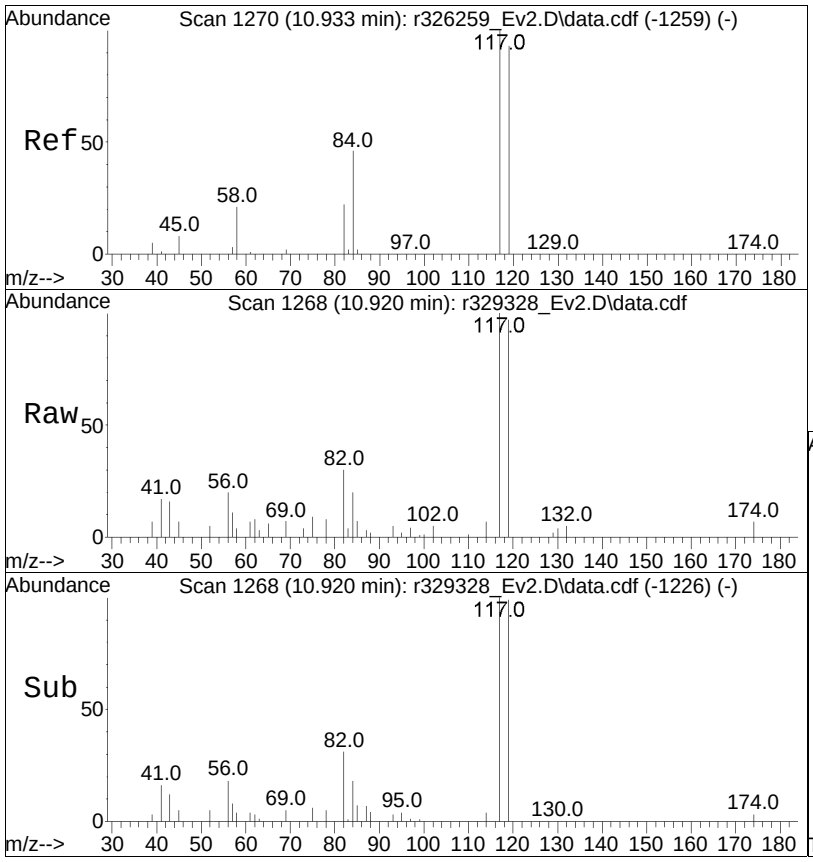
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329328_Ev2.D
Acq On : 26 Feb 2024 1:55 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-09,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:37 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

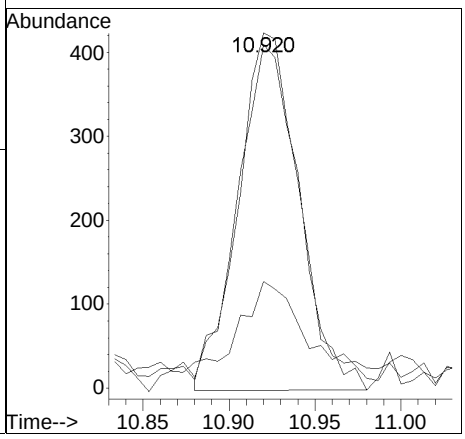


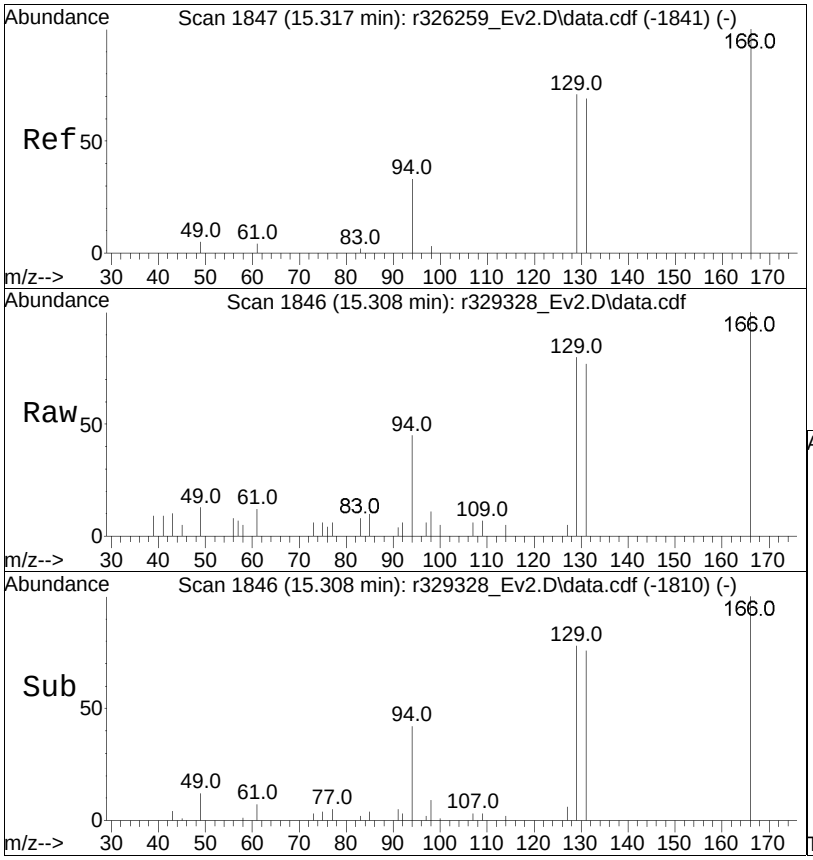


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329328_Ev2.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion:117 Resp: 1044

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.5	113.3
82	30.0	17.8	26.8#

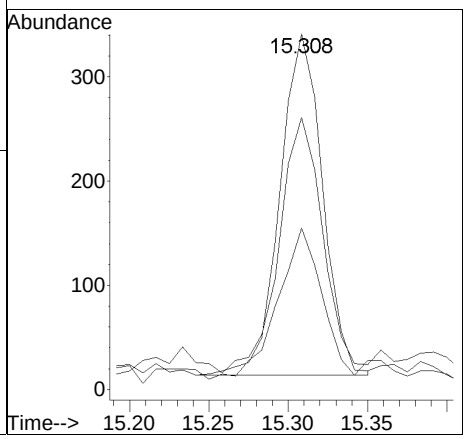




#57
tetrachloroethene
Concen: 0.03 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329328_Ev2.D
Acq: 26 Feb 2024 1:55 AM

Tgt Ion:166 Resp: 609

Ion	Ratio	Lower	Upper
166	100		
131	76.5	55.4	83.2
94	45.5	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329328_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/26/2020 0:1: 5	Instrument	:
Sample	: L2409224-09,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329329_Ev2.D
Acq On : 26 Feb 2024 2:35 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-11,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

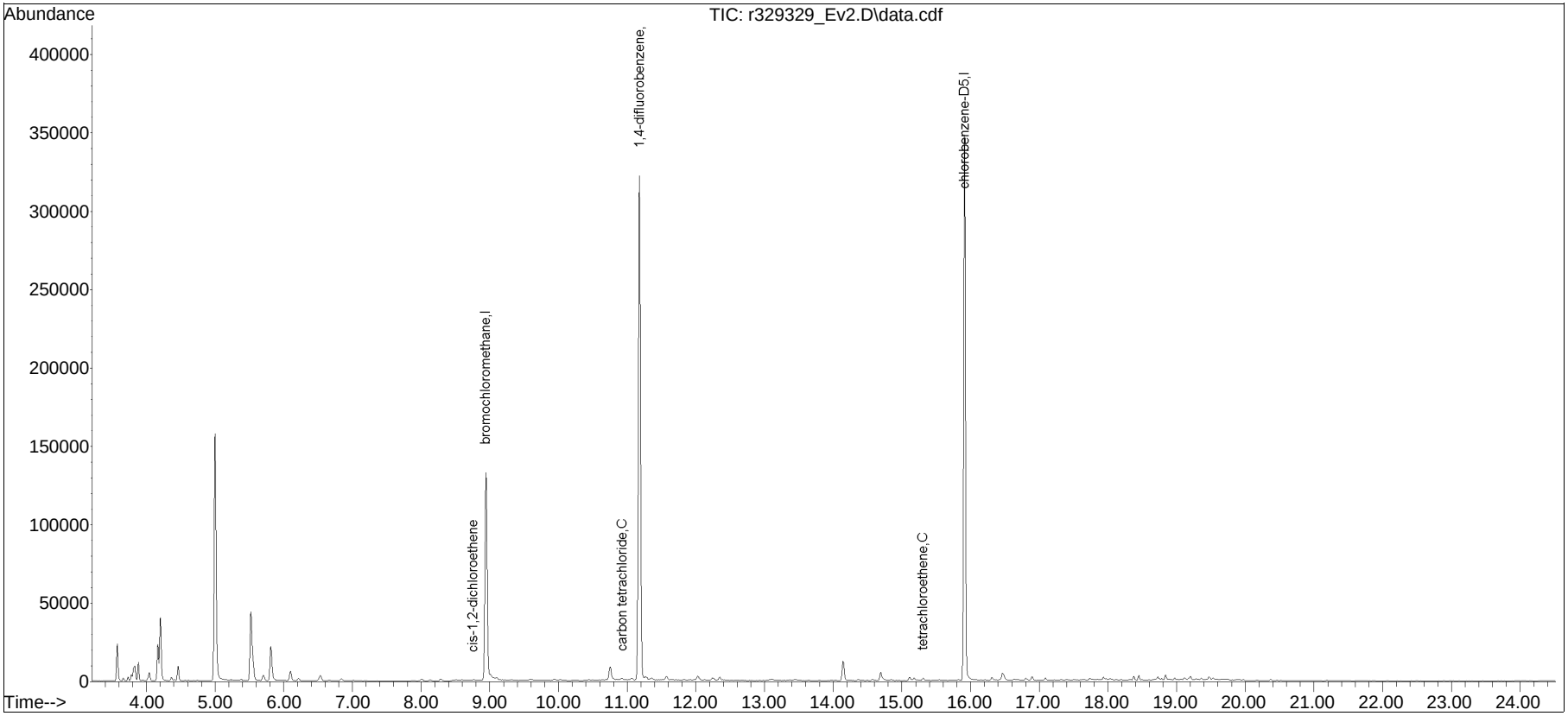
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	150185	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		83.14%	
33) 1,4-difluorobenzene	11.180	114	389756	10.000	ppbV	-0.04
Standard Area = 492655			Recovery =		79.11%	
51) chlorobenzene-D5	15.908	54	77611	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		84.02%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.266		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.	d	
28) cis-1,2-dichloroethene	8.758	61	266	0.015	ppbV	95
36) 1,1,1-trichloroethane	10.225		0	N.D.		
38) carbon tetrachloride	10.927	117	998	0.087	ppbV	97
44) trichloroethene	11.973		0	N.D.		
57) tetrachloroethene	15.308	166	842	0.039	ppbV #	88

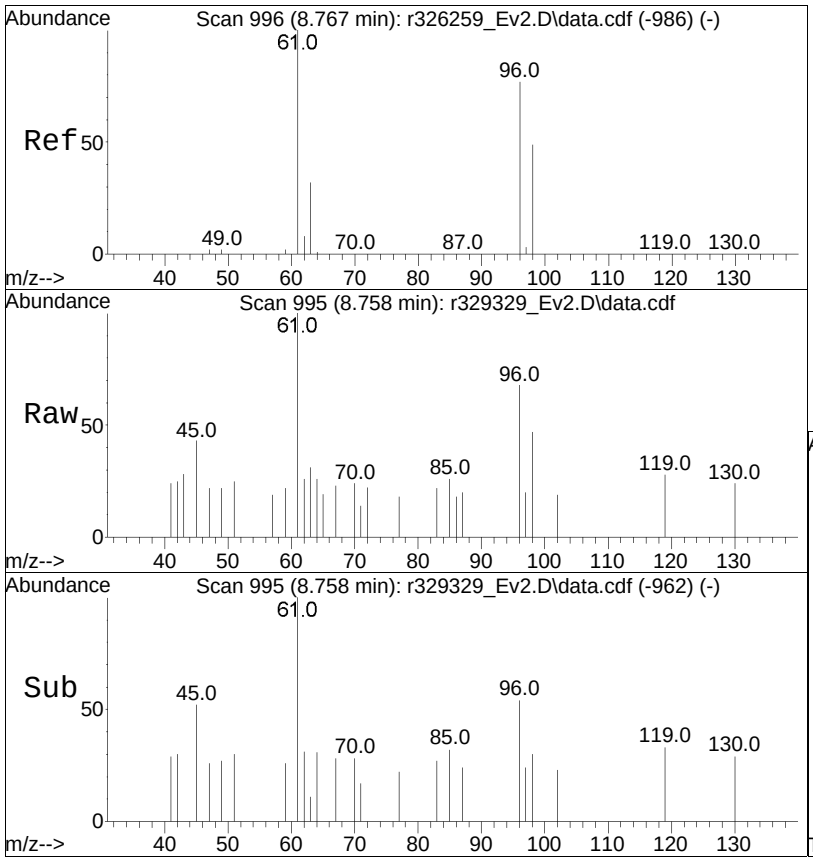
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329329_Ev2.D
Acq On : 26 Feb 2024 2:35 AM
Operator : AIRPIANO3:BJB
Sample : L2409224-11,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:48 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

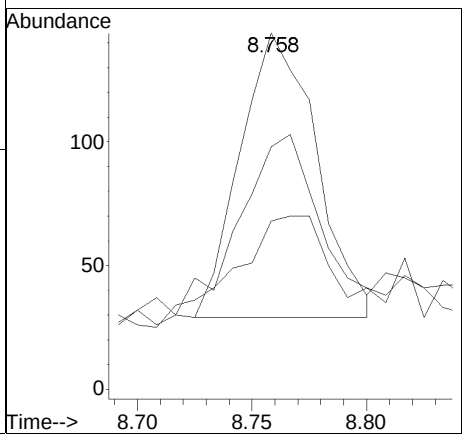


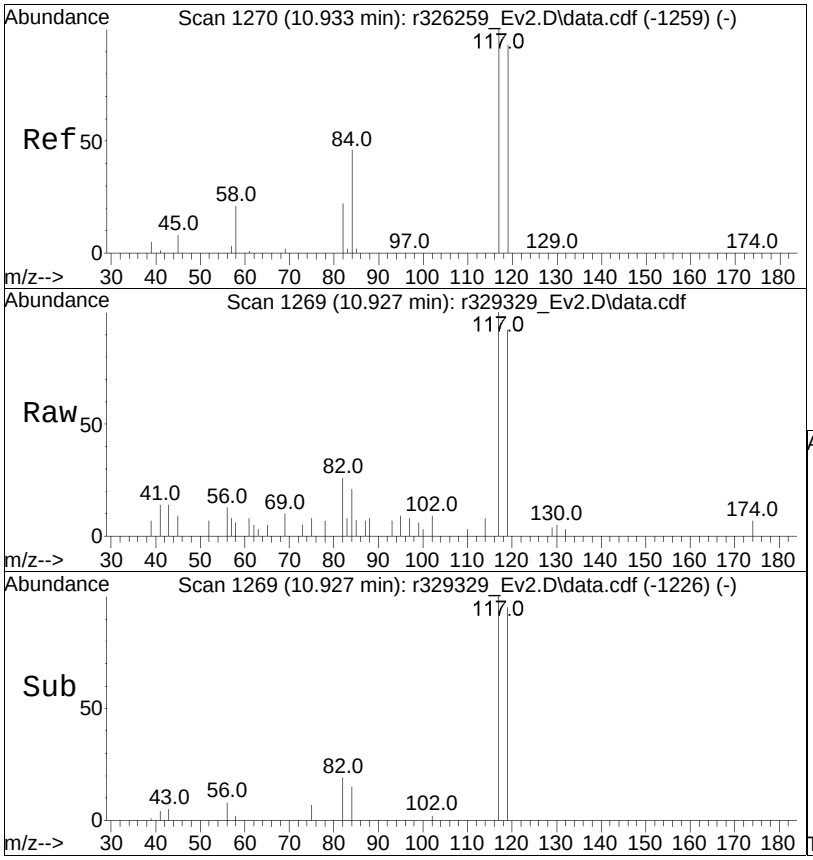


#28
cis-1,2-dichloroethene
Concen: 0.02 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329329_Ev2.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion: 61 Resp: 266

Ion	Ratio	Lower	Upper
61	100		
96	68.1	59.8	89.6
98	47.2	38.0	57.0

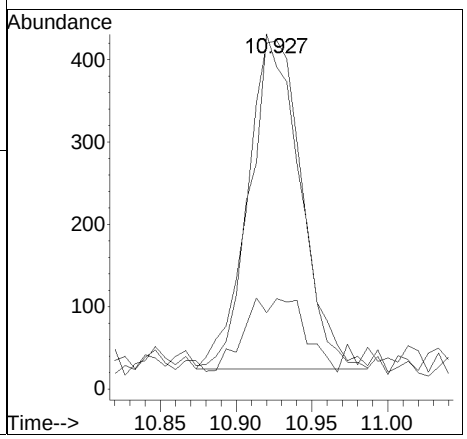


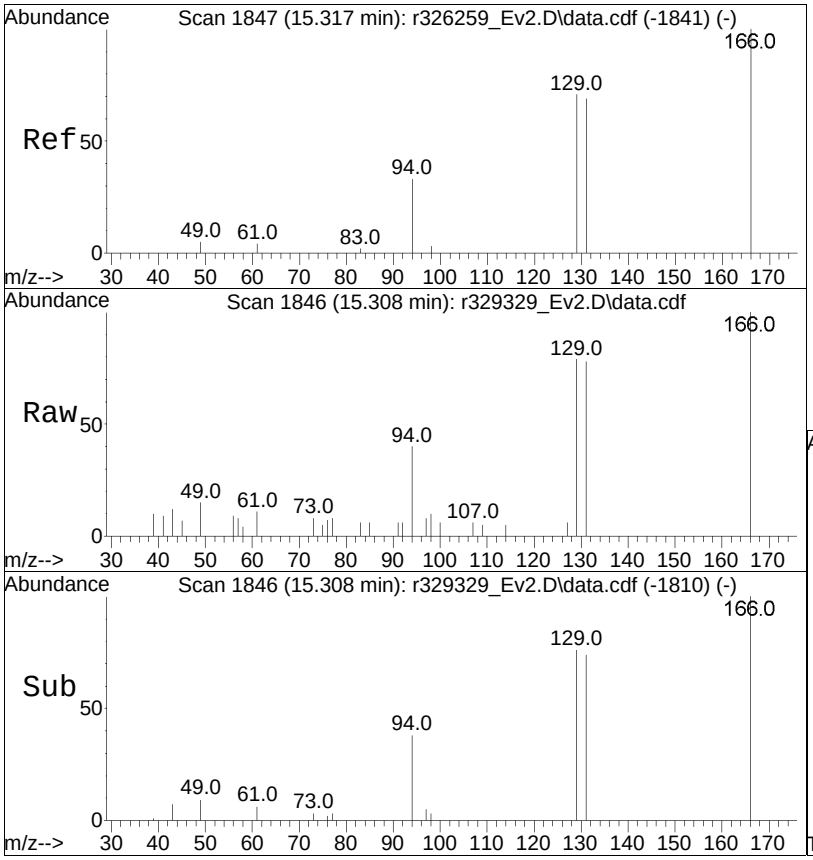


#38
carbon tetrachloride
Concen: 0.09 ppbV
RT: 10.927 min Scan# 1269
Delta R.T. -0.040 min
Lab File: r329329_Ev2.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion:117 Resp: 998

Ion	Ratio	Lower	Upper
117	100		
119	92.4	75.5	113.3
82	26.0	17.8	26.8

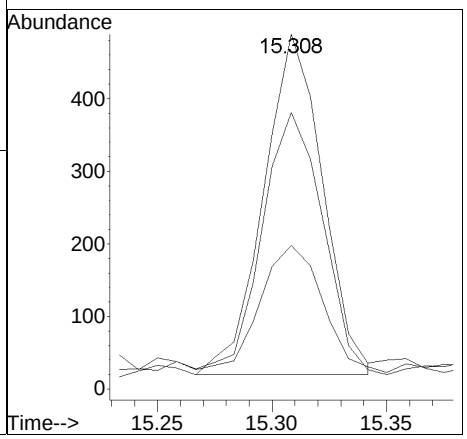




#57
tetrachloroethene
Concen: 0.04 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329329_Ev2.D
Acq: 26 Feb 2024 2:35 AM

Tgt Ion:166 Resp: 842

Ion	Ratio	Lower	Upper
166	100		
131	77.9	55.4	83.2
94	40.5	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329329_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/26/2020 0:2: 5	Instrument	:
Sample	: L2409224-11,3,250,250	Quant Date	: 2/26/2024 6:00 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**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20745**
Calibration dates	**: 01/07/24 20:20 01/08/24 02:14**		

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D

1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene					0.644	0.563	0.456	0.422	0.417	0.394	0.483	20.53
3)		dichlorodifluoromethane				1.138	1.063	1.054	1.052	1.025	0.987	0.904	1.032	7.05
4)	C	chloromethane				0.568	0.520	0.526	0.522	0.520	0.499	0.465	0.517	5.98
5)		Freon-114		1.311	1.268	1.404	1.306	1.297	1.287	1.274	1.207	1.075	1.270	7.04
6)	C	vinyl chloride	0.493	0.595	0.543	0.607	0.559	0.549	0.545	0.543	0.528	0.495	0.546	6.71
7)	C	1,3-butadiene	0.425	0.440	0.434	0.498	0.459	0.461	0.452	0.453	0.443	0.406	0.447	5.46
8)	C	bromomethane	0.460	0.496	0.487	0.520	0.481	0.475	0.472	0.472	0.463	0.430	0.476	4.95
9)	C	chloroethane		0.245	0.255	0.279	0.255	0.252	0.246	0.247	0.242	0.228	0.250	5.37
10)		ethanol						0.514	0.438	0.395	0.403	0.354	0.421	14.34
11)	C	vinyl bromide		0.506	0.478	0.481	0.489	0.481	0.471	0.470	0.471	0.438	0.476	3.81
12)	C	acrolein		0.440	0.289	0.280	0.259	0.243	0.232	0.233	0.250	0.237	0.274	23.92
13)		acetone				0.787	0.706	0.698	0.603	0.600	0.603	0.546	0.649	12.92
14)		trichlorofluoromethane		0.949	0.999	0.934	0.865	0.854	0.854	0.850	0.833	0.767	0.879	7.98
15)		isopropyl alcohol				0.901	0.836	0.842	0.834	0.836	0.843	0.768	0.837	4.60
16)	C	acrylonitrile				0.545	0.459	0.469	0.439	0.449	0.472	0.450	0.469	7.58
17)	C	1,1-dichloroethene	0.629	0.748	0.683	0.763	0.710	0.708	0.699	0.698	0.698	0.644	0.698	5.85
18)		tertiary butyl alcohol					0.993	0.977	0.915	0.911	0.959	0.907	0.944	3.96
19)	C	methylene chloride					0.693	0.671	0.650	0.648	0.740	0.680	0.680	4.98
20)	C	3-chloropropene		0.769	0.697	0.786	0.738	0.744	0.746	0.749	0.749	0.688	0.741	4.19
21)	C	carbon disulfide				1.940	1.769	1.767	1.798	1.813	1.810	1.640	1.791	4.93
22)		Freon 113		1.140	1.103	1.193	1.092	1.091	1.085	1.080	1.052	0.958	1.088	5.84
23)		trans-1,2-dichloroethene	0.594	0.731	0.724	0.789	0.733	0.737	0.728	0.729	0.725	0.672	0.716	7.15
24)	C	1,1-dichloroethane	0.834	0.873	0.912	1.012	0.928	0.927	0.926	0.926	0.910	0.836	0.909	5.70
25)	C	MTBE	1.073	1.257	1.278	1.491	1.392	1.382	1.363	1.365	1.360	1.264	1.323	8.50
26)	C	vinyl acetate					1.256	1.266	1.234	1.260	1.291	1.194	1.250	2.65
27)	C	2-butanone					1.260	1.253	1.248	1.265	1.259	1.169	1.242	2.92
28)		cis-1,2-dichloroethene	0.617	0.703	0.706	0.767	0.701	0.686	0.692	0.693	0.682	0.630	0.688	6.04
29)		Ethyl Acetate					0.178	0.173	0.176	0.178	0.179	0.170	0.176	2.03
30)	C	chloroform	0.925	1.028	1.011	1.125	1.024	1.011	1.003	1.001	0.982	0.904	1.001	6.00
31)		Tetrahydrofuran					0.697	0.693	0.705	0.710	0.711	0.663	0.697	2.59
32)	C	1,2-dichloroethane	0.627	0.559	0.533	0.676	0.580	0.558	0.543	0.543	0.527	0.485	0.563	9.60
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.333	0.307	0.306	0.299	0.300	0.302	0.285	0.305	4.79
35)	s	1,2-dichloroethane-D4				0.292	0.285	0.295	0.291	0.286	0.286	0.280	0.288	1.77
36)	C	1,1,1-trichloroethane	0.259	0.268	0.273	0.302	0.279	0.280	0.280	0.284	0.307	0.281	0.281	5.08

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20745**
Calibration dates	**: 01/07/24 20:20 01/08/24 02:14**		

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D

1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37)	C	benzene		0.834	0.799	0.800	0.729	0.729	0.721	0.728	0.717	0.665	0.747	7.09
38)	C	carbon tetrachloride	0.255	0.283	0.279	0.297	0.271	0.267	0.277	0.285	0.288	0.274	0.277	4.32
39)		cyclohexane				0.370	0.340	0.330	0.322	0.323	0.327	0.310	0.332	5.72
40)		Dibromomethane		0.243	0.234	0.226	0.206	0.203	0.191	0.194	0.204	0.192	0.210	9.12
41)	C	1,2-dichloropropane	0.273	0.244	0.235	0.250	0.223	0.221	0.220	0.223	0.220	0.207	0.232	8.31
42)		bromodichloromethane	0.286	0.348	0.315	0.340	0.327	0.327	0.337	0.347	0.355	0.339	0.332	6.00
43)	C	1,4-dioxane			0.144	0.150	0.139	0.136	0.138	0.140	0.143	0.138	0.141	3.26
44)	C	trichloroethene	0.254	0.303	0.273	0.319	0.295	0.296	0.296	0.300	0.298	0.282	0.291	6.17
45)	C	2,2,4-trimethylpentane				1.206	1.118	1.105	0.958	0.961	0.968	0.902	1.031	10.81
46)		heptane				0.460	0.437	0.446	0.434	0.441	0.439	0.405	0.437	3.84
47)	C	cis-1,3-dichloropropene	0.310	0.320	0.315	0.359	0.347	0.349	0.362	0.371	0.370	0.349	0.345	6.52
48)	C	4-methyl-2-pentanone					0.519	0.512	0.520	0.530	0.537	0.498	0.519	2.64
49)		trans-1,3-dichloropropene	0.221	0.237	0.239	0.278	0.266	0.267	0.285	0.295	0.296	0.283	0.267	9.74
50)	C	1,1,2-trichloroethane	0.255	0.226	0.242	0.271	0.255	0.254	0.254	0.257	0.255	0.237	0.251	4.97
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			6.421	6.535	6.153	6.104	6.033	6.031	5.946	5.428	6.081	5.48
53)	s	toluene-D8				8.106	7.990	8.274	8.111	7.978	7.963	7.765	8.027	1.97
54)		2-hexanone				3.223	3.357	3.568	3.791	3.905	3.953	3.613	3.630	7.55
55)		dibromochloromethane	2.296	2.321	2.204	2.590	2.431	2.489	2.667	2.795	2.871	2.700	2.536	8.85
56)	C	1,2-dibromoethane	2.525	2.899	2.896	3.368	3.191	3.191	3.225	3.254	3.189	2.905	3.064	8.24
57)	C	tetrachloroethene	2.313	2.353	2.487	2.575	2.364	2.357	2.325	2.327	2.275	2.110	2.349	5.23
58)		1,1,1,2-tetrachloroethane	1.782	2.033	2.045	2.198	2.140	2.181	2.090	2.144	2.277	2.114	2.100	6.35
59)	C	chlorobenzene	4.776	4.872	5.159	5.739	5.413	5.399	5.364	5.374	5.224	4.779	5.210	6.06
60)	C	ethylbenzene	6.542	7.181	7.377	8.193	7.607	7.623	7.681	7.803	7.557	6.872	7.444	6.38
61)	C	m+p-xylene	5.419	5.658	5.855	6.459	6.031	6.070	6.013	6.175	5.949	5.402	5.903	5.62
62)	C	bromoform	1.547	1.508	1.406	1.616	1.597	1.667	1.902	2.031	2.155	2.076	1.751	15.23
63)	C	styrene	3.871	4.269	4.650	5.307	5.045	5.127	5.243	5.359	5.191	4.724	4.879	10.13
64)	C	1,1,2,2-tetrachloroethane	3.748	4.056	4.226	4.823	4.585	4.559	4.525	4.564	4.465	4.124	4.368	7.34
65)	C	o-xylene	5.475	5.779	5.897	6.482	6.154	6.131	6.099	6.177	5.965	5.408	5.957	5.54
66)		1,2,3-Trichloropropane	3.201	3.272	3.369	3.904	3.615	3.632	3.349	3.367	3.558	3.312	3.458	6.20
67)	s	bromofluorobenzene				4.841	4.828	5.084	5.004	4.983	4.964	4.713	4.917	2.59
68)	C	isopropylbenzene				8.935	8.450	8.394	7.802	7.763	8.042	7.220	8.086	6.93
69)		Bromobenzene	3.871	3.971	4.181	4.793	4.661	4.613	4.296	4.311	4.570	4.205	4.347	7.02
70)		4-ethyl toluene	6.123	7.537	7.869	9.011	8.485	8.554	8.342	8.351	8.247	7.434	7.995	10.16
71)		1,3,5-trimethylbenzene	6.000	6.439	6.624	7.767	7.461	7.367	7.262	7.220	6.949	6.266	6.935	8.34
72)		tert-butylbenzene				7.956	7.478	7.450	6.885	6.814	7.100	6.488	7.167	6.90

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB17**	**Ical Ref**	**: ICAL20745**
Calibration dates	**: 01/07/24 20:20 01/08/24 02:14**		

Calibration Files

0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D

1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)		1,2,4-trimethylbenzene	5.681	6.297	6.791	7.683	7.371	7.350	7.313	7.239	6.988	6.193	6.891	9.29
74)	C	Benzyl Chloride			2.600	3.076	3.183	3.418	3.792	4.168	4.567	4.545	3.668	19.63
75)		1,3-dichlorobenzene	3.100	3.529	3.749	4.362	4.111	4.278	4.323	4.416	4.266	4.063	4.020	10.69
76)	C	1,4-dichlorobenzene	2.883	3.265	3.682	4.230	3.917	4.036	4.205	4.326	4.237	3.936	3.872	12.16
77)		sec-butylbenzene				1.143	1.072	1.077	0.975	0.970	0.998	0.902	1.020	7.98
78)		p-isopropyltoluene				9.424	8.969	8.994	8.189	8.199	8.488	7.776	8.577	6.71
79)		1,2-dichlorobenzene	3.452	3.504	3.704	4.226	4.018	4.070	4.015	4.129	4.026	3.802	3.895	6.82
80)		n-butylbenzene				7.811	7.590	7.753	7.058	7.113	7.504	6.941	7.396	4.78
81)		1,2-dibromo-3-chloropr...	0.911	1.187	1.315	1.477	1.532	1.649	1.533	1.639	1.817	1.777	1.484	18.78
82)	C	1,2,4-trichlorobenzene		1.881	2.038	2.131	2.313	2.479	2.637	2.940	2.832	2.908	2.462	16.02
83)		naphthalene		7.115	6.791	7.395	7.331	7.923	6.796	7.429	8.181	8.402	7.485	7.68
84)		1,2,3-trichlorobenzene		1.824	1.997	2.012	2.225	2.342	1.970	2.224	2.453	2.586	2.182	11.48
85)	C	hexachlorobutadiene		2.452	2.535	2.520	2.577	2.551	2.576	2.668	2.448	2.389	2.524	3.33

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20783**
Calibration dates	**: 12/30/23 13:58 12/30/23 19:57**		

Calibration Files

0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D

1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene				0.755	0.695	0.645	0.690	0.680	0.676	0.638	0.6827	5.66
3)		dichlorodifluoromethane				1.385	1.309	1.251	1.289	1.200	1.114	0.903	1.2074	13.19
4)	C	chloromethane				0.671	0.631	0.601	0.623	0.598	0.587	0.507	0.6025	8.39
5)		Freon-114		1.552	1.525	1.673	1.601	1.532	1.587	1.501	1.419	1.119	1.5009	10.64
6)	C	vinyl chloride	0.905	0.832	0.833	0.920	0.886	0.848	0.878	0.828	0.782	0.638	0.8352	9.65
7)	C	1,3-butadiene	0.593	0.586	0.570	0.645	0.600	0.578	0.594	0.568	0.557	0.465	0.5757	7.92
8)	C	bromomethane	0.725	0.677	0.622	0.656	0.633	0.600	0.625	0.595	0.573	0.473	0.6179	10.87
9)	C	chloroethane	0.496	0.468	0.422	0.462	0.451	0.420	0.444	0.422	0.408	0.338	0.4332	9.86
10)		ethanol					0.539	0.507	0.473	0.479	0.429	0.335	0.4602	15.51
11)	C	vinyl bromide				0.722	0.690	0.662	0.686	0.661	0.638	0.519	0.6540	9.98
12)	C	acrolein		0.305	0.383	0.431	0.391	0.382	0.385	0.377	0.404	0.359	0.3796	9.05
13)		acetone				1.235	1.124	1.047	1.057	1.025	1.037	0.874	1.0570	10.29
14)		trichlorofluoromethane		1.359	1.399	1.371	1.330	1.263	1.314	1.255	1.216	0.989	1.2773	9.66
15)		isopropyl alcohol				1.341	1.281	1.202	1.286	1.271	1.329	1.199	1.2728	4.36
16)	C	acrylonitrile			0.560	0.681	0.656	0.624	0.630	0.620	0.672	0.608	0.6314	6.16
17)	C	1,1-dichloroethene	1.266	1.257	1.207	1.362	1.267	1.210	1.278	1.231	1.220	1.035	1.2333	6.74
18)		tertiary butyl alcohol				1.700	1.666	1.573	1.633	1.604	1.751	1.503	1.6326	5.05
19)	C	methylene chloride					0.862	0.811	0.818	0.791	0.797	0.714	0.7989	6.06
20)	C	3-chloropropene				1.188	1.129	1.084	1.163	1.153	1.219	1.137	1.1535	3.77
21)	C	carbon disulfide				2.166	2.099	2.070	2.234	2.261	2.386	2.126	2.1916	5.03
22)		Freon 113		1.645	1.502	1.544	1.441	1.366	1.415	1.379	1.375	1.164	1.4257	9.44
23)		trans-1,2-dichloroethene	1.166	1.238	1.208	1.341	1.303	1.244	1.286	1.250	1.267	1.102	1.2406	5.55
24)	C	1,1-dichloroethane	1.676	1.642	1.556	1.694	1.633	1.554	1.628	1.584	1.593	1.407	1.5967	5.11
25)	C	MTBE	1.905	1.980	1.928	2.164	2.074	1.976	2.072	2.038	2.091	1.878	2.0106	4.57
26)	C	vinyl acetate					1.628	1.596	1.614	1.613	1.723	1.647	1.6369	2.80
27)	C	2-butanone				1.619	1.579	1.540	1.754	1.740	1.821	1.609	1.6661	6.31
28)		cis-1,2-dichloroethene	1.209	1.143	1.133	1.305	1.205	1.157	1.225	1.187	1.188	1.030	1.1781	6.05
29)		Ethyl Acetate				0.290	0.280	0.288	0.320	0.321	0.335	0.294	0.3039	6.89
30)	C	chloroform	1.421	1.277	1.292	1.364	1.319	1.254	1.307	1.269	1.250	1.069	1.2822	7.14
31)		Tetrahydrofuran				1.004	1.020	0.990	1.070	1.062	1.114	1.062	1.0461	4.16
32)	C	1,2-dichloroethane	1.112	0.959	0.895	1.162	1.026	0.947	0.973	0.924	0.889	0.716	0.9602	12.94
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.521	0.501	0.477	0.495	0.477	0.477	0.394	0.4774	8.44
35)	s	1,2-dichloroethane-D4				0.463	0.471	0.462	0.463	0.449	0.426	0.377	0.4445	7.46
36)	C	1,1,1-trichloroethane	0.367	0.389	0.353	0.386	0.373	0.362	0.383	0.389	0.359	0.297	0.3658	7.56

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20783**
Calibration dates	**: 12/30/23 13:58 12/30/23 19:57**		

Calibration Files

0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D

1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37)	C	benzene			0.980	0.939	0.871	0.829	0.869	0.846	0.855	0.777	0.8709	7.24
38)	C	carbon tetrachloride	0.279	0.287	0.293	0.307	0.303	0.290	0.316	0.309	0.303	0.251	0.2940	6.38
39)		cyclohexane				0.542	0.510	0.495	0.514	0.496	0.503	0.438	0.4996	6.34
40)		Dibromomethane		0.252	0.234	0.248	0.244	0.236	0.237	0.232	0.243	0.211	0.2374	5.00
41)	C	1,2-dichloropropane	0.373	0.312	0.333	0.377	0.360	0.341	0.363	0.358	0.359	0.314	0.3492	6.59
42)		bromodichloromethane	0.347	0.348	0.347	0.368	0.369	0.365	0.400	0.397	0.401	0.347	0.3689	6.12
43)	C	1,4-dioxane			0.177	0.186	0.188	0.179	0.200	0.194	0.200	0.181	0.1880	4.94
44)	C	trichloroethene	0.307	0.310	0.342	0.374	0.339	0.335	0.354	0.344	0.345	0.303	0.3354	6.76
45)	C	2,2,4-trimethylpentane				1.851	1.789	1.712	1.558	1.562	1.526	1.279	1.6112	11.95
46)		heptane				0.564	0.557	0.531	0.559	0.551	0.573	0.520	0.5507	3.38
47)	C	cis-1,3-dichloropropene	0.297	0.341	0.339	0.387	0.390	0.382	0.438	0.438	0.448	0.410	0.3872	12.81
48)	C	4-methyl-2-pentanone					0.600	0.586	0.650	0.645	0.663	0.601	0.6243	5.15
49)		trans-1,3-dichloropropene	0.163	0.177	0.259	0.272	0.294	0.299	0.349	0.349	0.358	0.325	0.2845	24.23
50)	C	1,1,2-trichloroethane	0.294	0.299	0.298	0.333	0.324	0.311	0.334	0.327	0.327	0.286	0.3131	5.66
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene		6.962	6.915	7.201	6.839	6.586	7.003	6.890	7.092	6.589	6.8975	2.99
53)	s	toluene-D8				9.117	9.199	8.992	9.020	9.126	9.400	9.824	9.2398	3.14
54)		2-hexanone				2.871	3.239	3.349	4.074	4.167	4.466	4.289	3.7792	16.28
55)		dibromochloromethane	1.814	1.790	1.895	2.004	2.002	2.056	2.441	2.545	2.728	2.545	2.1819	15.88
56)	C	1,2-dibromoethane	2.272	2.624	2.511	2.980	2.839	2.775	3.086	3.144	3.278	3.023	2.8533	10.95
57)	C	tetrachloroethene	3.133	2.807	2.706	2.865	2.728	2.640	2.816	2.815	2.926	2.590	2.8026	5.51
58)		1,1,1,2-tetrachloroethane	2.006	1.934	2.000	2.110	2.068	1.992	2.048	2.039	2.262	2.063	2.0521	4.31
59)	C	chlorobenzene	5.034	4.775	4.824	5.201	4.973	4.831	5.227	5.278	5.490	4.958	5.0590	4.60
60)	C	ethylbenzene	7.727	8.151	8.214	8.613	8.362	8.102	8.757	8.702	8.780	8.059	8.3467	4.26
61)	C	m+p-xylene	5.996	6.407	6.436	7.049	6.809	6.609	7.121	6.997	7.041	6.235	6.6702	5.87
62)	C	bromoform	1.455	1.338	1.346	1.571	1.634	1.716	2.210	2.396	2.627	2.455	1.8747	26.41
63)	C	styrene	3.672	4.130	4.426	5.131	5.084	5.056	5.804	5.951	6.165	5.661	5.1080	16.13
64)	C	1,1,2,2-tetrachloroethane	4.099	4.036	4.043	4.529	4.442	4.289	4.802	4.862	5.041	4.682	4.4824	8.07
65)	C	o-xylene	6.823	6.500	6.452	7.117	6.885	6.659	7.212	7.060	6.996	6.011	6.7718	5.46
66)		1,2,3-Trichloropropane	3.449	3.227	3.215	3.568	3.474	3.399	3.511	3.542	3.986	3.795	3.5164	6.68
67)	s	bromofluorobenzene				5.788	5.886	5.754	5.852	5.872	5.836	6.044	5.8617	1.58
68)	C	isopropylbenzene				8.939	8.629	8.347	8.489	8.460	9.288	8.052	8.6007	4.71
69)		Bromobenzene				4.750	4.682	4.550	4.662	4.689	5.257	4.860	4.7786	4.83
70)		4-ethyl toluene	6.656	7.002	7.284	8.478	8.484	8.474	9.452	9.292	9.638	8.318	8.3079	12.44
71)		1,3,5-trimethylbenzene	7.108	6.781	6.857	8.078	7.882	7.589	8.361	8.323	8.302	7.136	7.6415	8.24
72)		tert-butylbenzene				8.139	7.938	7.738	7.903	7.858	8.182	6.529	7.7552	7.26

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRPIANO3**	**Ical Ref**	**: ICAL20783**
Calibration dates	**: 12/30/23 13:58 12/30/23 19:57**		

Calibration Files

0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D

1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)		1,2,4-trimethylbenzene	6.681	6.746	6.801	7.767	7.640	7.549	8.432	8.303	7.956	6.294	7.4168	9.98
74)	C	Benzyl Chloride			2.203	2.927	3.205	3.666	4.863	5.345	5.859	5.530	4.1998	32.65#
75)		1,3-dichlorobenzene	3.560	3.398	3.771	4.414	4.829	4.873	5.532	5.526	5.462	4.711	4.6076	17.51
76)	C	1,4-dichlorobenzene	2.693	3.336	4.023	4.354	4.788	4.971	5.516	5.507	5.400	4.730	4.5318	20.90
77)		sec-butylbenzene				1.146	1.109	1.083	1.134	1.118	1.175	0.980	1.1064	5.66
78)		p-isopropyltoluene				9.804	9.579	9.353	9.541	9.365	9.788	7.535	9.2808	8.51
79)		1,2-dichlorobenzene	4.185	4.058	4.071	4.768	4.685	4.701	5.256	5.246	5.218	4.625	4.6812	9.96
80)		n-butylbenzene				8.416	8.580	8.480	8.755	8.689	9.316	8.174	8.6301	4.15
81)		1,2-dibromo-3-chloropr...	1.164	1.402	1.407	1.542	1.688	1.733	1.889	1.965	2.219	1.980	1.6990	19.04
82)	C	1,2,4-trichlorobenzene		2.390	2.673	3.213	3.612	3.742	4.588	4.788	4.809	4.379	3.7993	23.89
83)		naphthalene		0.681	0.731	0.846	0.937	0.949	0.931	0.957	1.108	0.993	0.9035	14.60
84)		1,2,3-trichlorobenzene		2.688	2.797	3.214	3.514	3.600	3.556	3.699	4.338	3.959	3.4850	15.04
85)	C	hexachlorobutadiene		3.922	3.773	3.883	4.047	3.963	4.478	4.468	4.161	3.437	4.0148	8.19

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB19**	**Ical Ref**	**: ICAL20881**
Calibration dates	**: 02/21/24 20:28 02/22/24 03:04**		

Calibration Files

0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D

1.0 =r1927918_Ev2.D 5.0 =r1927919_Ev2.D 10.0=r1927920_Ev2.D 20.0=r1927921_Ev2.D 50.0=r1927922_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	----------ISTD----------											
2)		propylene					0.798	0.733	0.665	0.648	0.694	0.654	0.6987	8.31
3)		dichlorodifluoromethane				1.295	1.180	1.146	1.094	1.053	1.087	0.936	1.1131	10.01
4)	C	chloromethane				0.569	0.509	0.489	0.459	0.453	0.473	0.426	0.4828	9.64
5)		Freon-114		1.212	1.191	1.388	1.285	1.244	1.173	1.148	1.176	1.006	1.2025	8.64
6)	C	vinyl chloride	0.683	0.701	0.658	0.786	0.726	0.702	0.672	0.654	0.678	0.593	0.6853	7.33
7)	C	1,3-butadiene	0.574	0.483	0.486	0.550	0.506	0.495	0.464	0.455	0.480	0.426	0.4919	8.85
8)	C	bromomethane	0.483	0.456	0.466	0.529	0.494	0.477	0.454	0.446	0.459	0.405	0.4670	7.00
9)	C	chloroethane			0.401	0.442	0.397	0.380	0.362	0.354	0.367	0.324	0.3783	9.39
10)		ethanol					0.781	0.668	0.526	0.519	0.487	0.454	0.5725	21.95
11)	C	vinyl bromide				0.852	0.764	0.733	0.692	0.680	0.726	0.651	0.7285	9.07
12)	C	acrolein		0.423	0.440	0.463	0.423	0.403	0.377	0.371	0.395	0.352	0.4053	8.75
13)		acetone				1.356	1.179	1.121	1.022	0.999	1.051	0.912	1.0915	13.26
14)		trichlorofluoromethane		1.448	1.394	1.614	1.478	1.434	1.379	1.343	1.368	1.177	1.4039	8.34
15)		isopropyl alcohol				1.113	1.007	1.064	1.080	1.087	1.268	1.139	1.1084	7.35
16)	C	acrylonitrile				0.749	0.682	0.664	0.623	0.615	0.656	0.583	0.6532	8.27
17)	C	1,1-dichloroethene	1.339	1.257	1.261	1.503	1.376	1.340	1.291	1.263	1.325	1.155	1.3110	6.99
18)		tertiary butyl alcohol					1.351	1.410	1.518	1.504	1.809	1.601	1.5320	10.53
19)	C	methylene chloride					0.868	0.820	0.762	0.746	0.769	0.681	0.7744	8.27
20)	C	3-chloropropene				1.405	1.266	1.229	1.176	1.174	1.263	1.159	1.2390	6.87
21)	C	carbon disulfide				3.095	2.561	2.372	2.171	2.149	2.298	2.065	2.3873	14.77
22)		Freon 113	1.520	1.531	1.447	1.714	1.556	1.498	1.431	1.401	1.448	1.252	1.4798	8.04
23)		trans-1,2-dichloroethene	1.378	1.368	1.320	1.556	1.427	1.386	1.313	1.285	1.350	1.184	1.3567	7.15
24)	C	1,1-dichloroethane	1.655	1.736	1.691	1.957	1.806	1.737	1.671	1.644	1.714	1.522	1.7134	6.63
25)	C	MTBE	2.257	2.168	2.132	2.453	2.242	2.155	2.057	2.040	2.186	1.969	2.1659	6.24
26)	C	vinyl acetate					1.488	1.485	1.445	1.457	1.664	1.578	1.5194	5.60
27)	C	2-butanone				2.149	1.916	1.831	1.706	1.723	1.846	1.571	1.8203	10.10
28)		cis-1,2-dichloroethene	1.297	1.266	1.232	1.427	1.309	1.284	1.230	1.208	1.250	1.098	1.2599	6.64
29)		Ethyl Acetate				0.360	0.329	0.322	0.320	0.321	0.341	0.299	0.3273	5.85
30)	C	chloroform	1.276	1.291	1.219	1.398	1.283	1.227	1.176	1.153	1.193	1.048	1.2263	7.68
31)		Tetrahydrofuran				1.278	1.155	1.115	1.058	1.051	1.129	1.029	1.1163	7.58
32)	C	1,2-dichloroethane	1.065	1.021	1.021	1.317	1.132	1.082	1.010	0.979	1.002	0.906	1.0534	10.51
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.525	0.489	0.479	0.457	0.442	0.454	0.378	0.4606	9.93
35)	s	1,2-dichloroethane-D4				0.425	0.430	0.427	0.430	0.427	0.419	0.400	0.4225	2.51
36)	C	1,1,1-trichloroethane	0.341	0.296	0.332	0.390	0.367	0.361	0.356	0.350	0.360	0.313	0.3467	7.89

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB19**	**Ical Ref**	**: ICAL20881**
Calibration dates	**: 02/21/24 20:28 02/22/24 03:04**		

Calibration Files

0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D

1.0 =r1927918_Ev2.D 5.0 =r1927919_Ev2.D 10.0=r1927920_Ev2.D 20.0=r1927921_Ev2.D 50.0=r1927922_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
37)	C	benzene			0.744	0.866	0.791	0.761	0.745	0.725	0.763	0.687	0.7602	6.90
38)	C	carbon tetrachloride	0.269	0.261	0.265	0.301	0.281	0.276	0.289	0.294	0.314	0.280	0.2831	5.95
39)		cyclohexane				0.533	0.488	0.478	0.466	0.451	0.472	0.412	0.4716	7.74
40)		Dibromomethane		0.254	0.230	0.263	0.240	0.232	0.220	0.213	0.223	0.192	0.2298	9.35
41)	C	1,2-dichloropropane	0.417	0.310	0.342	0.392	0.364	0.353	0.343	0.338	0.352	0.311	0.3524	9.35
42)		bromodichloromethane	0.387	0.322	0.330	0.397	0.369	0.365	0.360	0.356	0.377	0.334	0.3597	6.84
43)	C	1,4-dioxane			0.187	0.215	0.177	0.174	0.164	0.159	0.173	0.153	0.1753	11.06
44)	C	trichloroethene	0.302	0.279	0.264	0.314	0.300	0.289	0.283	0.275	0.285	0.252	0.2843	6.49
45)	C	2,2,4-trimethylpentane				1.695	1.558	1.530	1.434	1.388	1.437	1.223	1.4663	10.12
46)		heptane				0.589	0.545	0.528	0.510	0.501	0.534	0.480	0.5267	6.68
47)	C	cis-1,3-dichloropropene	0.376	0.362	0.356	0.416	0.392	0.388	0.394	0.394	0.423	0.386	0.3887	5.34
48)	C	4-methyl-2-pentanone					0.613	0.599	0.601	0.592	0.629	0.564	0.5996	3.65
49)		trans-1,3-dichloropropene	0.256	0.245	0.245	0.303	0.290	0.292	0.312	0.319	0.345	0.315	0.2924	11.62
50)	C	1,1,2-trichloroethane	0.276	0.281	0.290	0.335	0.317	0.309	0.302	0.294	0.305	0.267	0.2977	6.83
51)	I	chlorobenzene-D5	----------			ISTD	----------							
52)	C	toluene			6.577	7.187	6.556	6.278	5.998	5.928	6.136	5.507	6.2709	8.10
53)	s	toluene-D8				8.355	8.198	8.257	8.108	8.191	8.164	8.237	8.2155	0.95
54)		2-hexanone				4.011	3.869	3.804	3.874	3.907	4.202	3.905	3.9389	3.34
55)		dibromochloromethane	2.513	2.007	2.008	2.345	2.193	2.166	2.208	2.260	2.421	2.227	2.2348	7.23
56)	C	1,2-dibromoethane	3.080	2.808	2.865	3.280	3.085	3.032	3.013	3.019	3.217	2.937	3.0336	4.77
57)	C	tetrachloroethene	2.680	2.607	2.399	2.769	2.491	2.383	2.280	2.279	2.412	2.196	2.4496	7.61
58)		1,1,1,2-tetrachloroethane	1.641	1.488	1.551	1.774	1.680	1.697	1.715	1.748	1.887	1.695	1.6875	6.62
59)	C	chlorobenzene	5.341	5.220	5.137	5.891	5.363	5.172	4.927	4.983	5.284	4.754	5.2072	5.92
60)	C	ethylbenzene	8.071	7.494	7.539	8.612	8.177	8.021	7.706	7.642	7.892	6.948	7.8103	5.81
61)	C	m+p-xylene	6.558	6.073	6.041	6.945	6.563	6.538	6.277	6.153	6.325	5.442	6.2916	6.46
62)	C	bromoform	1.567	1.652	1.508	1.755	1.765	1.819	1.970	2.073	2.292	2.119	1.8520	13.77
63)	C	styrene	5.100	4.888	4.960	5.826	5.593	5.704	5.699	5.724	6.049	5.476	5.5020	7.10
64)	C	1,1,2,2-tetrachloroethane	4.346	3.852	3.847	4.418	4.165	4.075	3.985	3.954	4.122	3.724	4.0488	5.47
65)	C	o-xylene	7.041	6.293	6.197	7.141	6.743	6.583	6.299	6.166	6.212	5.216	6.3892	8.52
66)		1,2,3-Trichloropropane	3.661	3.339	3.375	3.796	3.519	3.398	3.242	3.280	3.552	3.338	3.4499	5.16
67)	s	bromofluorobenzene				5.627	5.209	5.430	5.345	5.239	5.353	5.316	5.3597	2.59
68)	C	isopropylbenzene				1.026	0.949	0.919	0.867	0.865	0.922	0.804	0.9074	7.82
69)		Bromobenzene	3.863	3.551	3.942	4.482	4.443	4.416	4.226	4.218	4.535	4.184	4.1861	7.55
70)		4-ethyl toluene	0.893	0.851	0.856	1.010	0.958	0.930	0.916	0.919	0.965	0.842	0.9141	5.98
71)		1,3,5-trimethylbenzene	0.841	0.963	0.931	1.073	0.959	0.967	0.915	0.912	0.925	0.804	0.9291	7.88
72)		tert-butylbenzene				8.893	8.234	7.917	7.454	7.400	7.715	6.407	7.7171	10.00

Initial Calibration Summary
Form 6
Air Volatiles

Client	**: Roux Env. Eng. & Geology, DPC**	**Lab Number**	**: L2409224**
Project Name	**: 11-20 46TH ROAD**	**Project Number**	**: 3371.0001Y000**
Instrument ID	**: AIRLAB19**	**Ical Ref**	**: ICAL20881**
Calibration dates	**: 02/21/24 20:28 02/22/24 03:04**		

Calibration Files

0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D

1.0 =r1927918_Ev2.D 5.0 =r1927919_Ev2.D 10.0=r1927920_Ev2.D 20.0=r1927921_Ev2.D 50.0=r1927922_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
73)		1,2,4-trimethylbenzene	9.165	8.038	7.871	8.999	8.473	8.245	8.148	8.124	8.065	6.340	8.1469	9.36
74)	C	Benzyl Chloride			1.723	2.238	2.497	2.954	4.293	4.861	5.565	5.034	3.6455	40.13#
75)		1,3-dichlorobenzene	3.227	3.126	3.243	4.084	3.907	3.971	4.212	4.362	4.455	3.893	3.8481	12.59
76)	C	1,4-dichlorobenzene	2.735	2.569	2.860	3.709	3.505	3.923	4.221	4.315	4.453	4.001	3.6290	18.96
77)		sec-butylbenzene				1.306	1.215	1.175	1.112	1.109	1.169	1.001	1.1553	8.26
78)		p-isopropyltoluene				1.018	0.958	0.941	0.898	0.890	0.916	0.750	0.9102	9.07
79)		1,2-dichlorobenzene	3.686	3.493	3.574	4.242	4.067	3.973	4.059	4.127	4.249	3.770	3.9241	6.99
80)		n-butylbenzene				8.402	8.060	8.033	7.819	7.684	7.925	6.753	7.8109	6.63
81)		1,2-dibromo-3-chloropr...	0.912	0.982	1.063	1.365	1.510	1.642	1.876	1.950	2.091	1.894	1.5284	28.30
82)	C	1,2,4-trichlorobenzene		1.480	1.652	2.133	2.399	2.654	3.530	3.668	3.605	3.376	2.7220	31.54#
83)		naphthalene		4.906	5.276	6.271	6.924	7.479	8.589	8.734	8.728	7.951	7.2065	20.32
84)		1,2,3-trichlorobenzene		1.936	1.960	2.251	2.457	2.627	3.000	3.098	3.155	3.051	2.6149	18.69
85)	C	hexachlorobutadiene		2.988	2.948	3.104	3.072	3.080	3.208	3.187	2.964	2.476	3.0029	7.25

Response Factor Report

Method Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Method File : TSIM19_240221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Feb 23 11:07:27 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D
1.0 =r1927918_Ev2.D 5.0 =r1927919_Ev2.D 10.0=r1927920_Ev2.D 20.0=r1927921_Ev2.D 50.0=r1927922_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	ISTD											
2)		propylene					0.798	0.733	0.665	0.648	0.694	0.654	0.6987	8.31
3)		dichlorodifluorome...				1.295	1.180	1.146	1.094	1.053	1.087	0.936	1.1131	10.01
4)	C	chloromethane				0.569	0.509	0.489	0.459	0.453	0.473	0.426	0.4828	9.64
5)		Freon-114		1.212	1.191	1.388	1.285	1.244	1.173	1.148	1.176	1.006	1.2025	8.64
6)	C	vinyl chloride	0.683	0.701	0.658	0.786	0.726	0.702	0.672	0.654	0.678	0.593	0.6853	7.33
7)	C	1,3-butadiene	0.574	0.483	0.486	0.550	0.506	0.495	0.464	0.455	0.480	0.426	0.4919	8.85
8)	C	bromomethane	0.483	0.456	0.466	0.529	0.494	0.477	0.454	0.446	0.459	0.405	0.4670	7.00
9)	C	chloroethane			0.401	0.442	0.397	0.380	0.362	0.354	0.367	0.324	0.3783	9.39
10)		ethanol					0.781	0.668	0.526	0.519	0.487	0.454	0.5725	21.95
11)	C	vinyl bromide				0.852	0.764	0.733	0.692	0.680	0.726	0.651	0.7285	9.07
12)	C	acrolein		0.423	0.440	0.463	0.423	0.403	0.377	0.371	0.395	0.352	0.4053	8.75
13)		acetone				1.356	1.179	1.121	1.022	0.999	1.051	0.912	1.0915	13.26
14)		trichlorofluoromet...		1.448	1.394	1.614	1.478	1.434	1.379	1.343	1.368	1.177	1.4039	8.34
15)		isopropyl alcohol				1.113	1.007	1.064	1.080	1.087	1.268	1.139	1.1084	7.35
16)	C	acrylonitrile				0.749	0.682	0.664	0.623	0.615	0.656	0.583	0.6532	8.27
17)	C	1,1-dichloroethene	1.339	1.257	1.261	1.503	1.376	1.340	1.291	1.263	1.325	1.155	1.3110	6.99
18)		tertiary butyl alc...					1.351	1.410	1.518	1.504	1.809	1.601	1.5320	10.53
19)	C	methylene chloride					0.868	0.820	0.762	0.746	0.769	0.681	0.7744	8.27
20)	C	3-chloropropene				1.405	1.266	1.229	1.176	1.174	1.263	1.159	1.2390	6.87
21)	C	carbon disulfide				3.095	2.561	2.372	2.171	2.149	2.298	2.065	2.3873	14.77
22)		Freon 113	1.520	1.531	1.447	1.714	1.556	1.498	1.431	1.401	1.448	1.252	1.4798	8.04
23)		trans-1,2-dichloro...	1.378	1.368	1.320	1.556	1.427	1.386	1.313	1.285	1.350	1.184	1.3567	7.15
24)	C	1,1-dichloroethane	1.655	1.736	1.691	1.957	1.806	1.737	1.671	1.644	1.714	1.522	1.7134	6.63
25)	C	MTBE	2.257	2.168	2.132	2.453	2.242	2.155	2.057	2.040	2.186	1.969	2.1659	6.24
26)	C	vinyl acetate					1.488	1.485	1.445	1.457	1.664	1.578	1.5194	5.60
27)	C	2-butanone				2.149	1.916	1.831	1.706	1.723	1.846	1.571	1.8203	10.10
28)		cis-1,2-dichloroet...	1.297	1.266	1.232	1.427	1.309	1.284	1.230	1.208	1.250	1.098	1.2599	6.64
29)		Ethyl Acetate				0.360	0.329	0.322	0.320	0.321	0.341	0.299	0.3273	5.85
30)	C	chloroform	1.276	1.291	1.219	1.398	1.283	1.227	1.176	1.153	1.193	1.048	1.2263	7.68
31)		Tetrahydrofuran				1.278	1.155	1.115	1.058	1.051	1.129	1.029	1.1163	7.58

Response Factor Report

Method Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Method File : TSIM19_240221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Feb 23 11:07:27 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D
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		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32)	C	1,2-dichloroethane	1.065	1.021	1.021	1.317	1.132	1.082	1.010	0.979	1.002	0.906	1.0534	10.51
33)	I	1,4-difluorobenzene	ISTD											
34)	C	hexane				0.525	0.489	0.479	0.457	0.442	0.454	0.378	0.4606	9.93
35)	s	1,2-dichloroethane-D4				0.425	0.430	0.427	0.430	0.427	0.419	0.400	0.4225	2.51
36)	C	1,1,1-trichloroethane	0.341	0.296	0.332	0.390	0.367	0.361	0.356	0.350	0.360	0.313	0.3467	7.89
37)	C	benzene			0.744	0.866	0.791	0.761	0.745	0.725	0.763	0.687	0.7602	6.90
38)	C	carbon tetrachloride	0.269	0.261	0.265	0.301	0.281	0.276	0.289	0.294	0.314	0.280	0.2831	5.95
39)		cyclohexane				0.533	0.488	0.478	0.466	0.451	0.472	0.412	0.4716	7.74
40)		Dibromomethane		0.254	0.230	0.263	0.240	0.232	0.220	0.213	0.223	0.192	0.2298	9.35
41)	C	1,2-dichloropropane	0.417	0.310	0.342	0.392	0.364	0.353	0.343	0.338	0.352	0.311	0.3524	9.35
42)		bromodichloromethane	0.387	0.322	0.330	0.397	0.369	0.365	0.360	0.356	0.377	0.334	0.3597	6.84
43)	C	1,4-dioxane			0.187	0.215	0.177	0.174	0.164	0.159	0.173	0.153	0.1753	11.06
44)	C	trichloroethene	0.302	0.279	0.264	0.314	0.300	0.289	0.283	0.275	0.285	0.252	0.2843	6.49
45)	C	2,2,4-trimethylpen...				1.695	1.558	1.530	1.434	1.388	1.437	1.223	1.4663	10.12
46)		heptane				0.589	0.545	0.528	0.510	0.501	0.534	0.480	0.5267	6.68
47)	C	cis-1,3-dichloropr...	0.376	0.362	0.356	0.416	0.392	0.388	0.394	0.394	0.423	0.386	0.3887	5.34
48)	C	4-methyl-2-pentanone					0.613	0.599	0.601	0.592	0.629	0.564	0.5996	3.65
49)		trans-1,3-dichloro...	0.256	0.245	0.245	0.303	0.290	0.292	0.312	0.319	0.345	0.315	0.2924	11.62
50)	C	1,1,2-trichloroethane	0.276	0.281	0.290	0.335	0.317	0.309	0.302	0.294	0.305	0.267	0.2977	6.83
51)	I	chlorobenzene-D5	ISTD											
52)	C	toluene			6.577	7.187	6.556	6.278	5.998	5.928	6.136	5.507	6.2709	8.10
53)	s	toluene-D8				8.355	8.198	8.257	8.108	8.191	8.164	8.237	8.2155	0.95
54)		2-hexanone				4.011	3.869	3.804	3.874	3.907	4.202	3.905	3.9389	3.34
55)		dibromochloromethane	2.513	2.007	2.008	2.345	2.193	2.166	2.208	2.260	2.421	2.227	2.2348	7.23
56)	C	1,2-dibromoethane	3.080	2.808	2.865	3.280	3.085	3.032	3.013	3.019	3.217	2.937	3.0336	4.77
57)	C	tetrachloroethene	2.680	2.607	2.399	2.769	2.491	2.383	2.280	2.279	2.412	2.196	2.4496	7.61
58)		1,1,1,2-tetrachlor...	1.641	1.488	1.551	1.774	1.680	1.697	1.715	1.748	1.887	1.695	1.6875	6.62
59)	C	chlorobenzene	5.341	5.220	5.137	5.891	5.363	5.172	4.927	4.983	5.284	4.754	5.2072	5.92
60)	C	ethylbenzene	8.071	7.494	7.539	8.612	8.177	8.021	7.706	7.642	7.892	6.948	7.8103	5.81
61)	C	m+p-xylene	6.558	6.073	6.041	6.945	6.563	6.538	6.277	6.153	6.325	5.442	6.2916	6.46

Response Factor Report

Method Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Method File : TSIM19_240221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Feb 23 11:07:27 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1927913_Ev2.D 0.05=r1927914_Ev2.D 0.1 =r1927915_Ev2.D 0.2 =r1927916_Ev2.D 0.5 =r1927917_Ev2.D
1.0 =r1927918_Ev2.D 5.0 =r1927919_Ev2.D 10.0=r1927920_Ev2.D 20.0=r1927921_Ev2.D 50.0=r1927922_Ev2.D

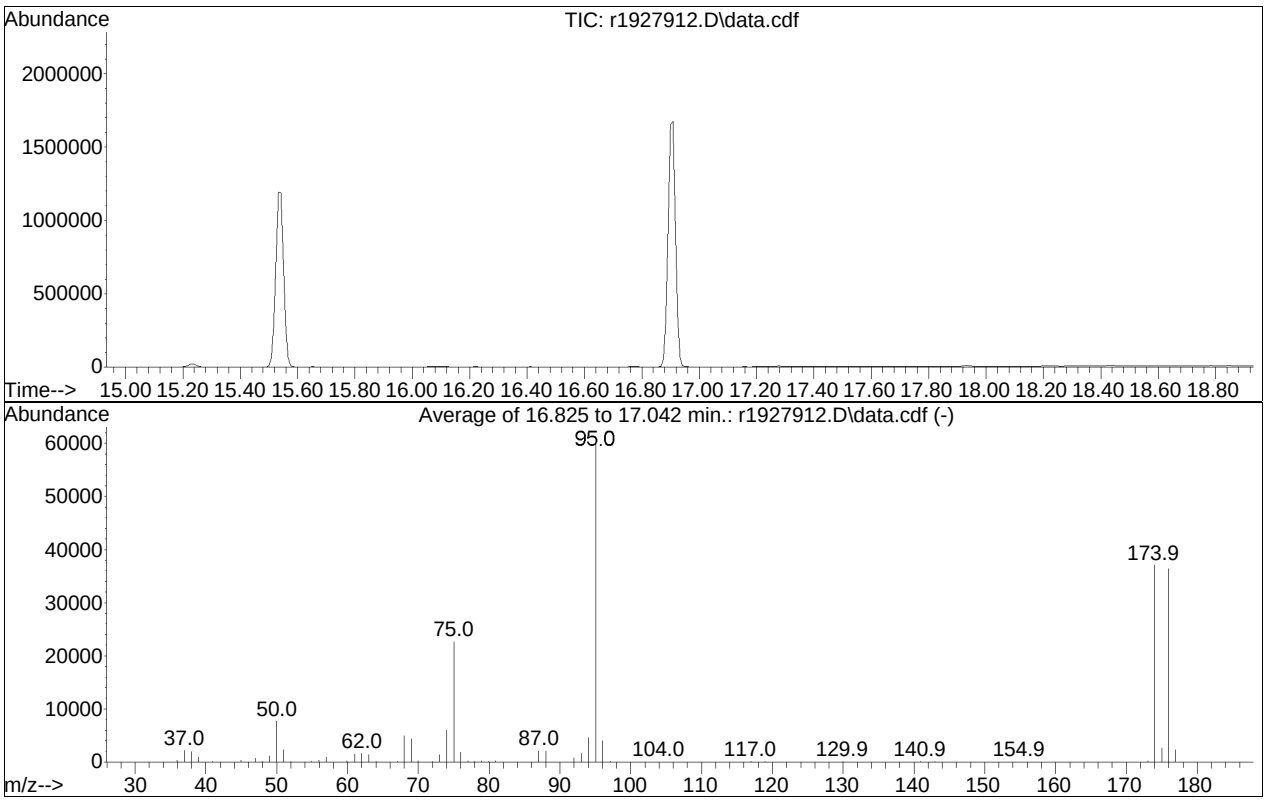
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C	bromoform	1.567	1.652	1.508	1.755	1.765	1.819	1.970	2.073	2.292	2.119	1.8520	13.77
63)	C	styrene	5.100	4.888	4.960	5.826	5.593	5.704	5.699	5.724	6.049	5.476	5.5020	7.10
64)	C	1,1,2,2-tetrachlor...	4.346	3.852	3.847	4.418	4.165	4.075	3.985	3.954	4.122	3.724	4.0488	5.47
65)	C	o-xylene	7.041	6.293	6.197	7.141	6.743	6.583	6.299	6.166	6.212	5.216	6.3892	8.52
66)		1,2,3-Trichloropro...	3.661	3.339	3.375	3.796	3.519	3.398	3.242	3.280	3.552	3.338	3.4499	5.16
67)	s	bromofluorobenzene				5.627	5.209	5.430	5.345	5.239	5.353	5.316	5.3597	2.59
68)	C	isopropylbenzene				1.026	0.949	0.919	0.867	0.865	0.922	0.804	0.9074	7.82
69)		Bromobenzene	3.863	3.551	3.942	4.482	4.443	4.416	4.226	4.218	4.535	4.184	4.1861	7.55
70)		4-ethyl toluene	0.893	0.851	0.856	1.010	0.958	0.930	0.916	0.919	0.965	0.842	0.9141	5.98
71)		1,3,5-trimethylben...	0.841	0.963	0.931	1.073	0.959	0.967	0.915	0.912	0.925	0.804	0.9291	7.88
72)		tert-butylbenzene				8.893	8.234	7.917	7.454	7.400	7.715	6.407	7.7171	10.00
73)		1,2,4-trimethylben...	9.165	8.038	7.871	8.999	8.473	8.245	8.148	8.124	8.065	6.340	8.1469	9.36
74)	C	Benzyl Chloride			1.723	2.238	2.497	2.954	4.293	4.861	5.565	5.034	3.6455	40.13#
75)		1,3-dichlorobenzene	3.227	3.126	3.243	4.084	3.907	3.971	4.212	4.362	4.455	3.893	3.8481	12.59
76)	C	1,4-dichlorobenzene	2.735	2.569	2.860	3.709	3.505	3.923	4.221	4.315	4.453	4.001	3.6290	18.96
77)		sec-butylbenzene				1.306	1.215	1.175	1.112	1.109	1.169	1.001	1.1553	8.26
78)		p-isopropyltoluene				1.018	0.958	0.941	0.898	0.890	0.916	0.750	0.9102	9.07
79)		1,2-dichlorobenzene	3.686	3.493	3.574	4.242	4.067	3.973	4.059	4.127	4.249	3.770	3.9241	6.99
80)		n-butylbenzene				8.402	8.060	8.033	7.819	7.684	7.925	6.753	7.8109	6.63
81)		1,2-dibromo-3-chlo...	0.912	0.982	1.063	1.365	1.510	1.642	1.876	1.950	2.091	1.894	1.5284	28.30
82)	C	1,2,4-trichloroben...		1.480	1.652	2.133	2.399	2.654	3.530	3.668	3.605	3.376	2.7220	31.54#
83)		naphthalene		4.906	5.276	6.271	6.924	7.479	8.589	8.734	8.728	7.951	7.2065	20.32
84)		1,2,3-trichloroben...		1.936	1.960	2.251	2.457	2.627	3.000	3.098	3.155	3.051	2.6149	18.69
85)	C	hexachlorobutadiene		2.988	2.948	3.104	3.072	3.080	3.208	3.187	2.964	2.476	3.0029	7.25

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927912.D
Acq On : 21 Feb 2024 7:44 PM
Operator : AIRLAB19:JMB
Sample : WG1888539-1,3,250,250
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Feb 23 11:07:27 2024



Spectrum Information: Average of 16.825 to 17.042 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.8	7720	PASS
75	95	30	66	37.7	22689	PASS
95	95	100	100	100.0	60136	PASS
96	95	5	9	6.7	4018	PASS
173	174	0.00	2	0.7	245	PASS
174	95	50	120	61.8	37142	PASS
175	174	4	9	7.2	2665	PASS
176	174	93	101	98.2	36464	PASS
177	176	5	9	6.5	2381	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927913_Ev2.D
Acq On : 21 Feb 2024 8:28 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:41 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.492	49	215119	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 95.15%			
33) 1,4-difluorobenzene	10.747	114	761903	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 101.59%			
51) chlorobenzene-D5	15.533	54	101474	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 91.19%			
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	13.600	98	22572	0.274	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.74%#			
67) bromofluorobenzene	16.900	95	6287	0.116	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.16%#			
Target Compounds						Qvalue
2) propylene	3.410	41	1003M6	0.070	ppbV	
3) dichlorodifluoromethane	3.476	85	530	0.023	ppbV	90
4) chloromethane	3.626	50	290	0.029	ppbV	90
5) Freon-114	3.728	85	550	0.022	ppbV	93
6) vinyl chloride	3.836	62	294M4	0.020	ppbV	
7) 1,3-butadiene	3.968	54	247	0.025	ppbV #	78
8) bromomethane	4.232	94	208	0.021	ppbV	98
9) chloroethane	4.406	64	206	0.026	ppbV #	60
10) ethanol	4.532	31	7630	0.674	ppbV #	73
11) vinyl bromide	4.763	106	373	0.025	ppbV	98
12) acrolein	4.893	56	272	0.034	ppbV #	67
13) acetone	5.037	43	4156	0.189	ppbV #	94
14) trichlorofluoromethane	5.213	101	591M4	0.020	ppbV	
15) isopropyl alcohol	5.320	45	1066M4	0.046	ppbV	
16) acrylonitrile	5.537	53	379	0.028	ppbV #	87
17) 1,1-dichloroethene	5.914	61	576M4	0.021	ppbV	
18) tertiary butyl alcohol	5.992	59	747	0.023	ppbV #	82
19) methylene chloride	6.058	49	882	0.054	ppbV	100
20) 3-chloropropene	6.190	41	618	0.024	ppbV	89
21) carbon disulfide	6.358	76	3615	0.077	ppbV #	53
22) Freon 113	6.364	101	654	0.021	ppbV	97
23) trans-1,2-dichloroethene	7.117	61	593	0.021	ppbV	93
24) 1,1-dichloroethane	7.342	63	712	0.020	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927913_Ev2.D
Acq On : 21 Feb 2024 8:28 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:41 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.442	73	971	0.022	ppbV	#	87
26) vinyl acetate	7.542	43	675M3	0.022	ppbV		
27) 2-butanone	7.817	43	1008	0.027	ppbV		93
28) cis-1,2-dichloroethene	8.308	61	558	0.021	ppbV	#	90
29) Ethyl Acetate	8.600	61	175	0.025	ppbV	#	21
30) chloroform	8.650	83	549	0.022	ppbV	#	94
31) Tetrahydrofuran	9.125	42	707	0.031	ppbV		95
32) 1,2-dichloroethane	9.483	62	458M4	0.021	ppbV		
34) hexane	8.567	57	754	0.022	ppbV	#	43
36) 1,1,1-trichloroethane	9.780	97	520	0.019	ppbV	#	91
37) benzene	10.313	78	1298	0.023	ppbV		96
38) carbon tetrachloride	10.480	117	410	0.019	ppbV	#	93
39) cyclohexane	10.627	56	658M4	0.019	ppbV		
40) Dibromomethane	11.227	93	410M4	0.025	ppbV		
41) 1,2-dichloropropane	11.260	63	636	0.024	ppbV	#	91
42) bromodichloromethane	11.493	83	589	0.021	ppbV	#	96
43) 1,4-dioxane	11.560	88	500M4	0.040	ppbV		
44) trichloroethene	11.547	130	460	0.021	ppbV		98
45) 2,2,4-trimethylpentane	11.593	57	2234	0.020	ppbV	#	89
46) heptane	11.920	43	845	0.022	ppbV	#	97
47) cis-1,3-dichloropropene	12.558	75	573M4	0.019	ppbV		
48) 4-methyl-2-pentanone	12.617	43	988	0.022	ppbV	#	96
49) trans-1,3-dichloropropene	13.183	75	390	0.016	ppbV	#	69
50) 1,1,2-trichloroethane	13.383	97	421	0.018	ppbV		92
52) toluene	13.717	91	1933	0.032	ppbV		99
54) 2-hexanone	14.042	43	780	0.020	ppbV		90
55) dibromochloromethane	14.192	129	510	0.023	ppbV	#	91
56) 1,2-dibromoethane	14.450	107	625	0.020	ppbV		94
57) tetrachloroethene	14.933	166	544	0.024	ppbV	#	88
58) 1,1,1,2-tetrachloroethane	15.558	131	333M4	0.019	ppbV		
59) chlorobenzene	15.575	112	1084M4	0.022	ppbV		
60) ethylbenzene	15.925	91	1638	0.021	ppbV		95
61) m+p-xylene	16.083	91	2662M4	0.042	ppbV		
62) bromoform	16.150	173	318M4	0.016	ppbV		
63) styrene	16.417	104	1035M4	0.018	ppbV		
64) 1,1,2,2-tetrachloroethane	16.508	83	882	0.022	ppbV		97
65) o-xylene	16.508	91	1429M4	0.022	ppbV		
66) 1,2,3-Trichloropropane	16.617	75	743M4	0.023	ppbV		
68) isopropylbenzene	17.017	105	1952	0.022	ppbV		97
69) Bromobenzene	17.083	77	784	0.018	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927913_Ev2.D
Acq On : 21 Feb 2024 8:28 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:41 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

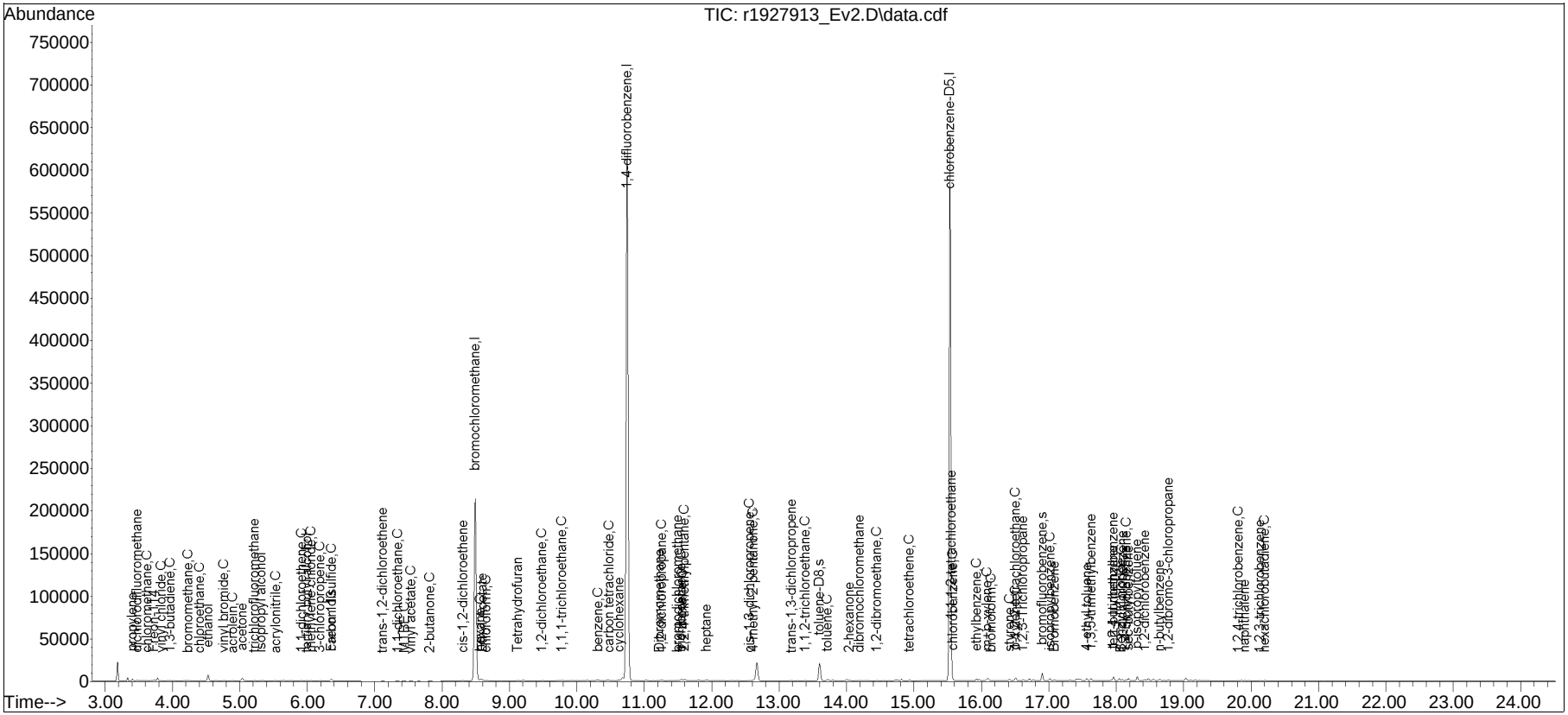
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.567	105	1812	0.019	ppbV #	93
71) 1,3,5-trimethylbenzene	17.625	105	1706	0.018	ppbV #	99
72) tert-butylbenzene	17.958	119	1864	0.025	ppbV	98
73) 1,2,4-trimethylbenzene	17.958	105	1860	0.022	ppbV #	86
74) Benzyl Chloride	18.075	91	321	0.007	ppbV #	78
75) 1,3-dichlorobenzene	18.092	146	655M4	0.015	ppbV	
76) 1,4-dichlorobenzene	18.150	146	555	0.013	ppbV #	87
77) sec-butylbenzene	18.183	105	2412	0.021	ppbV	95
78) p-isopropyltoluene	18.308	119	1839	0.020	ppbV	99
79) 1,2-dichlorobenzene	18.425	146	748	0.018	ppbV #	89
80) n-butylbenzene	18.642	91	1398	0.018	ppbV	91
81) 1,2-dibromo-3-chloropr...	18.775	75	185M4	0.010	ppbV	
82) 1,2,4-trichlorobenzene	19.808	180	288M4	0.008	ppbV	
83) naphthalene	19.908	128	999M4	0.011	ppbV	
84) 1,2,3-trichlorobenzene	20.133	180	356M4	0.012	ppbV	
85) hexachlorobutadiene	20.200	225	588M4	0.018	ppbV	

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

Sub List : Default-ICV-AP2 - All compounds listed1SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927913_Ev2.D
Acq On : 21 Feb 2024 8:28 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:41 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

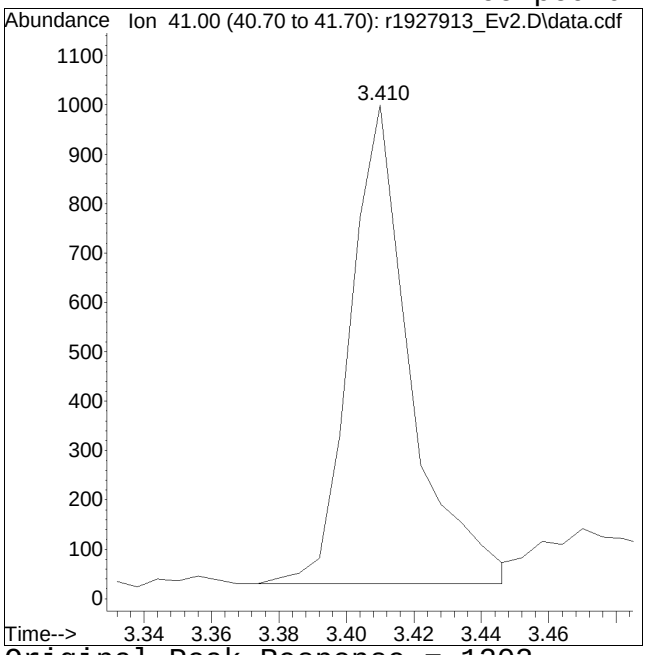


Manual Integration Report

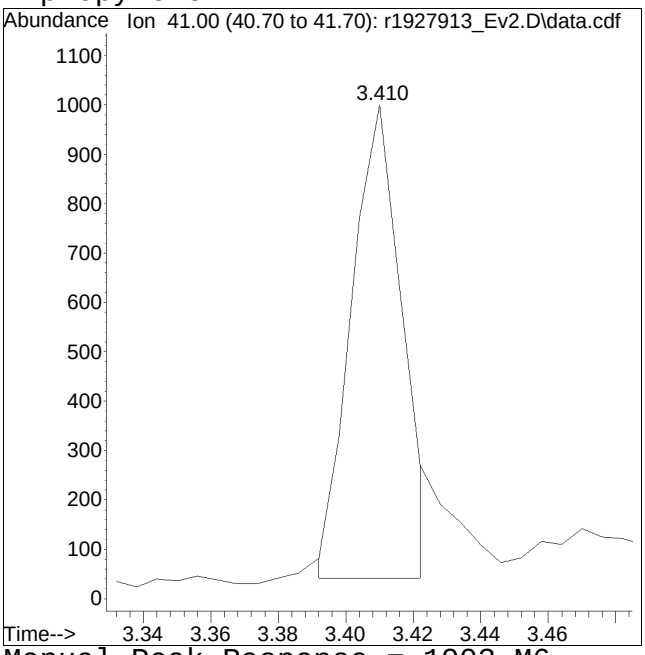
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927913_Ev2.D
Date Inj'd : 2/21/2020 0:8: 8
Sample : ITO15-SIMSTD0.02

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:41 am

Compound #2: propylene



Original Peak Response = 1202



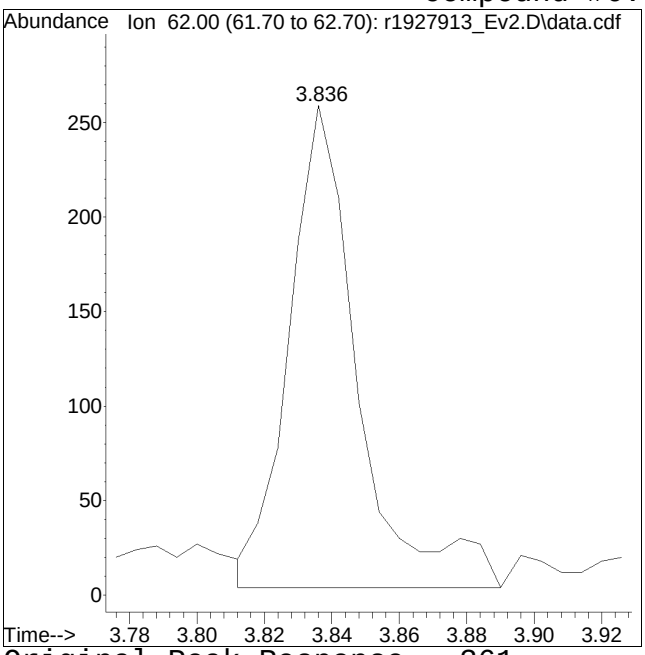
Manual Peak Response = 1003 M6

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

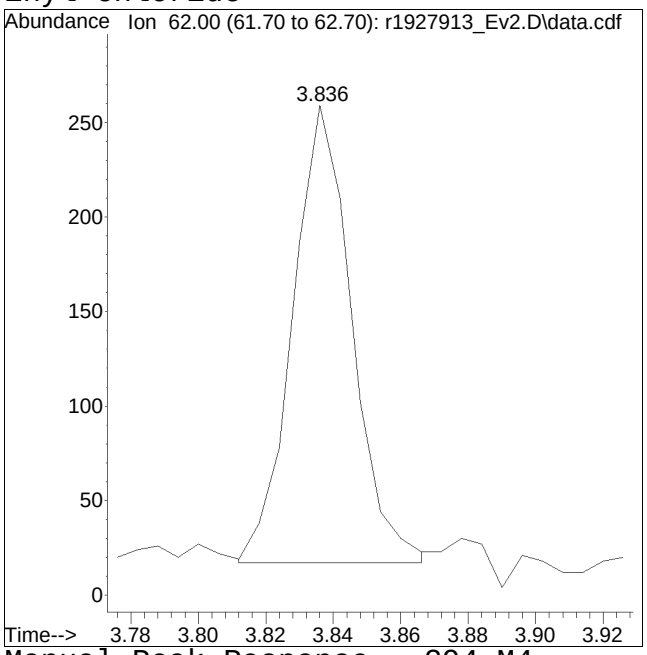
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #6: vinyl chloride



Original Peak Response = 361



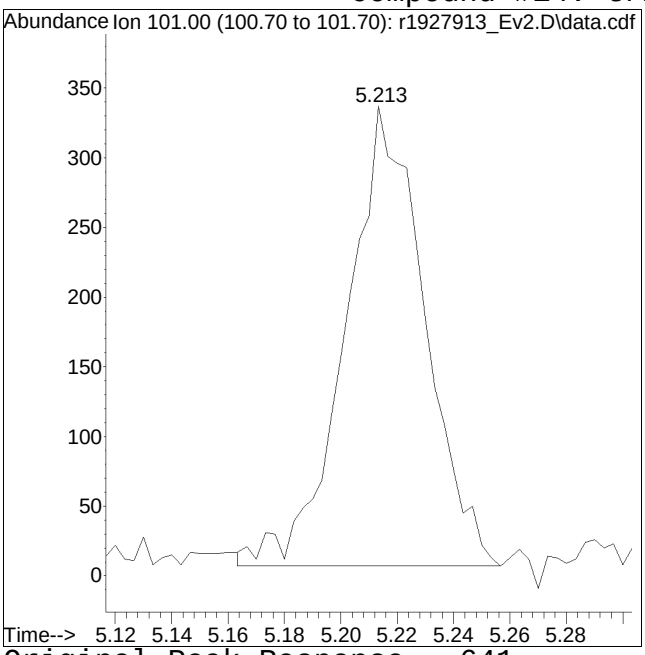
Manual Peak Response = 294 M4

M4 = Poor automated baseline construction.

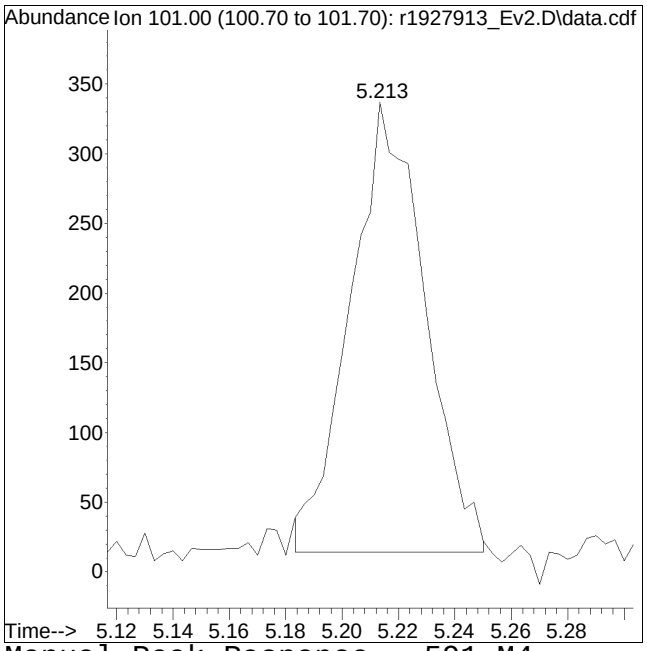
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #14: trichlorofluoromethane



Original Peak Response = 641



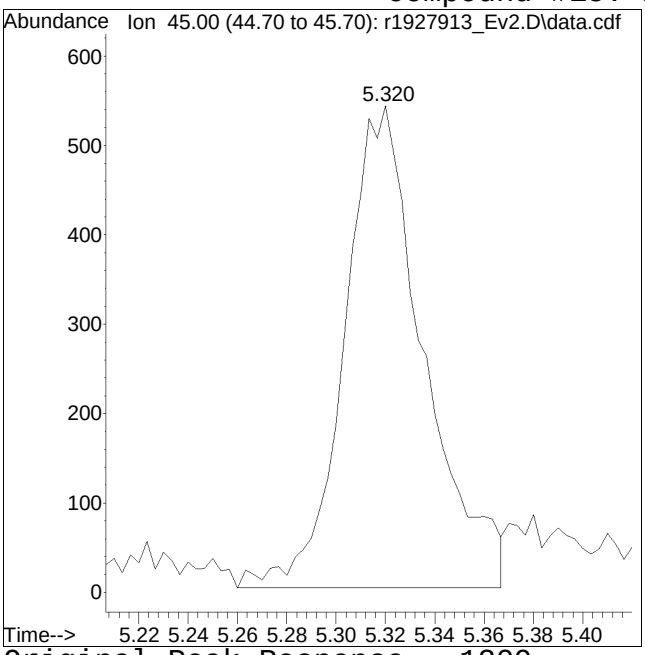
Manual Peak Response = 591 M4

M4 = Poor automated baseline construction.

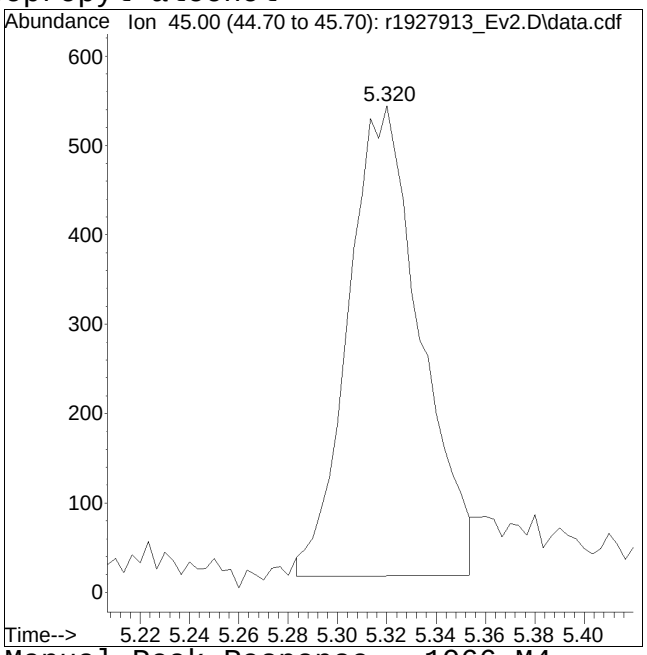
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #15: isopropyl alcohol



Original Peak Response = 1209



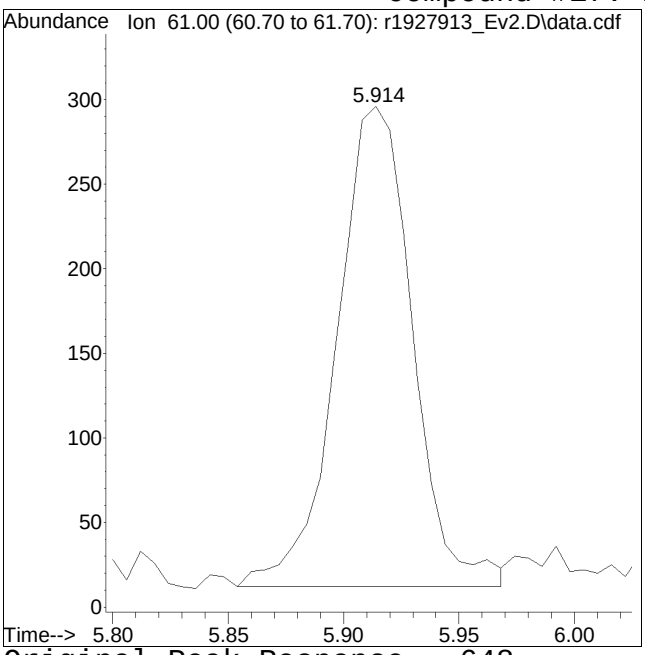
Manual Peak Response = 1066 M4

M4 = Poor automated baseline construction.

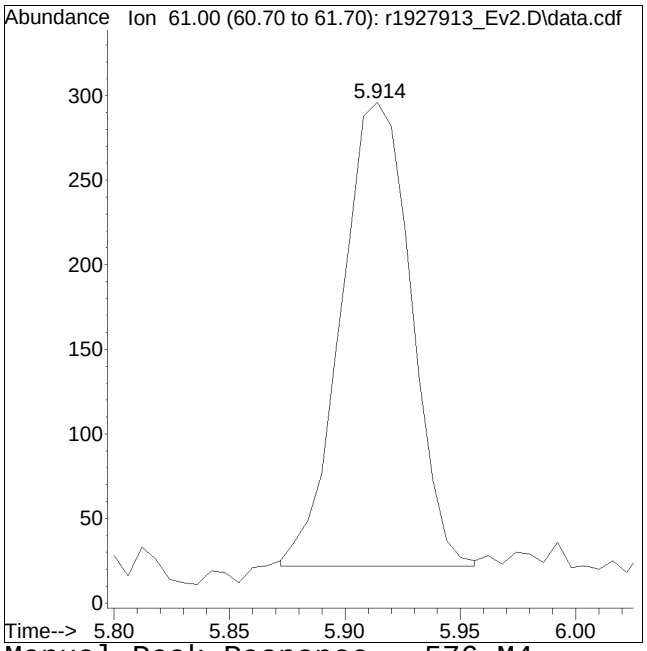
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #17: 1,1-dichloroethene



Original Peak Response = 648



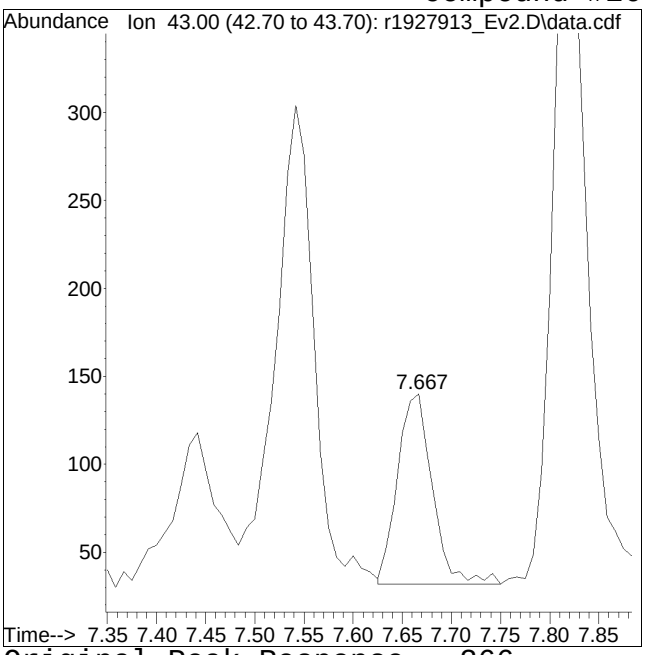
Manual Peak Response = 576 M4

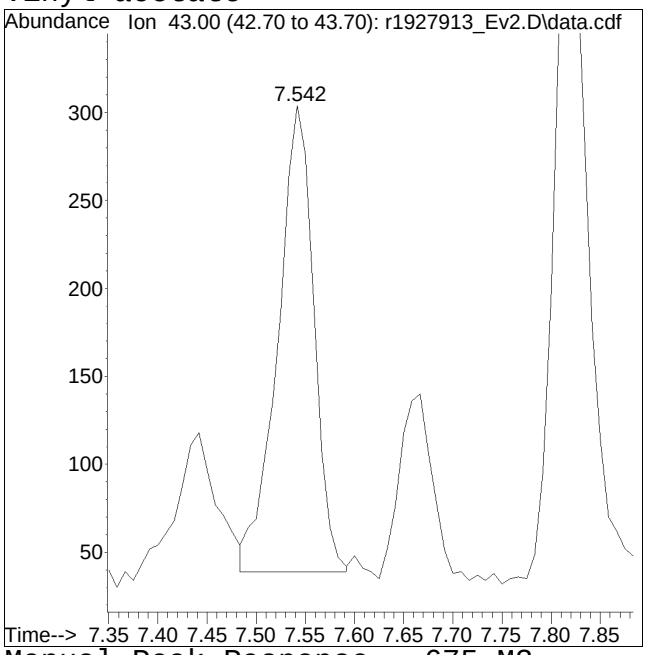
M4 = Poor automated baseline construction.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #26: vinyl acetate





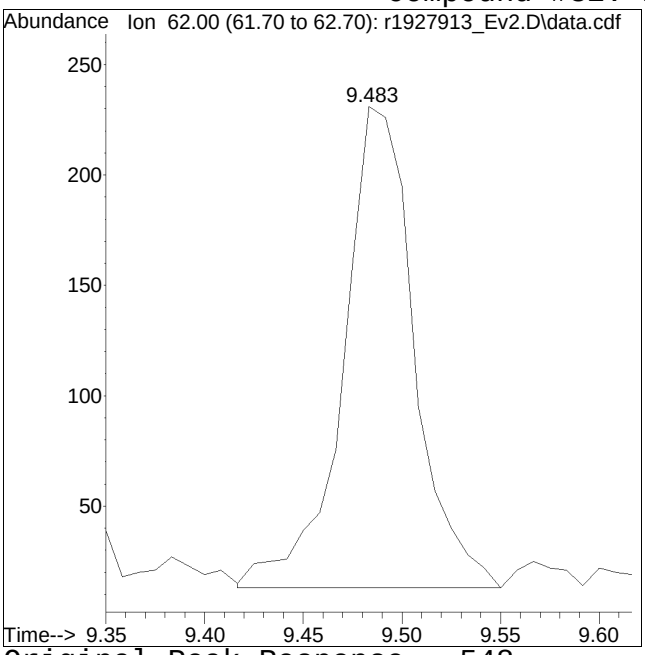
Original Peak Response = 266 Manual Peak Response = 675 M3

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

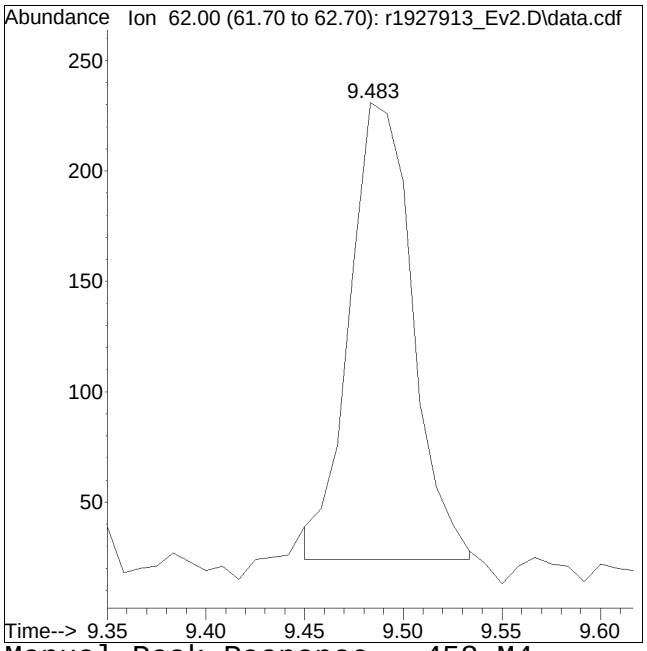
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #32: 1,2-dichloroethane



Original Peak Response = 548



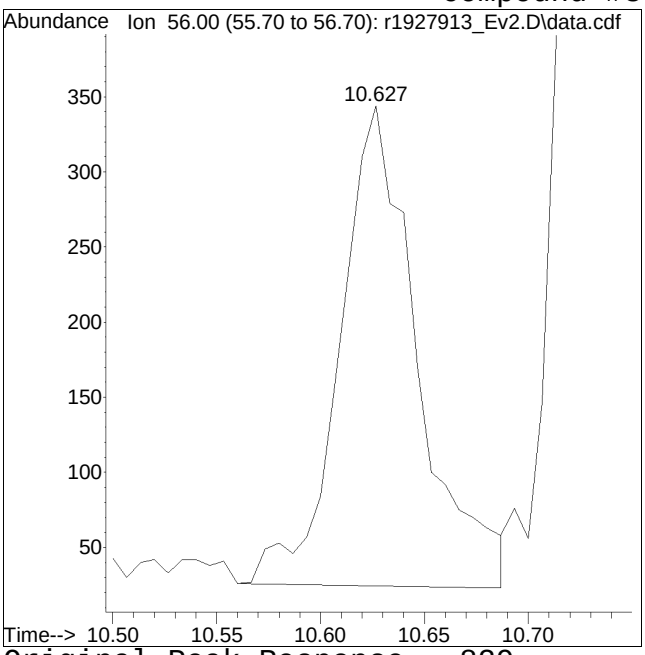
Manual Peak Response = 458 M4

M4 = Poor automated baseline construction.

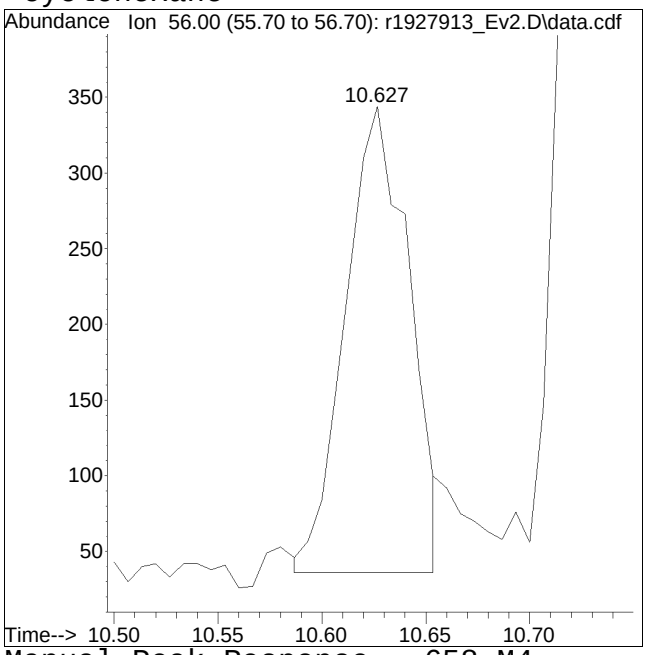
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #39: cyclohexane



Original Peak Response = 829



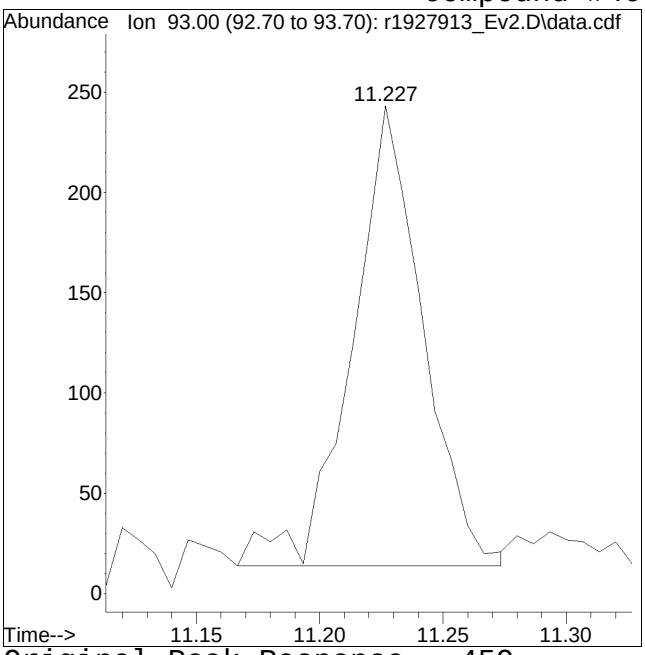
Manual Peak Response = 658 M4

M4 = Poor automated baseline construction.

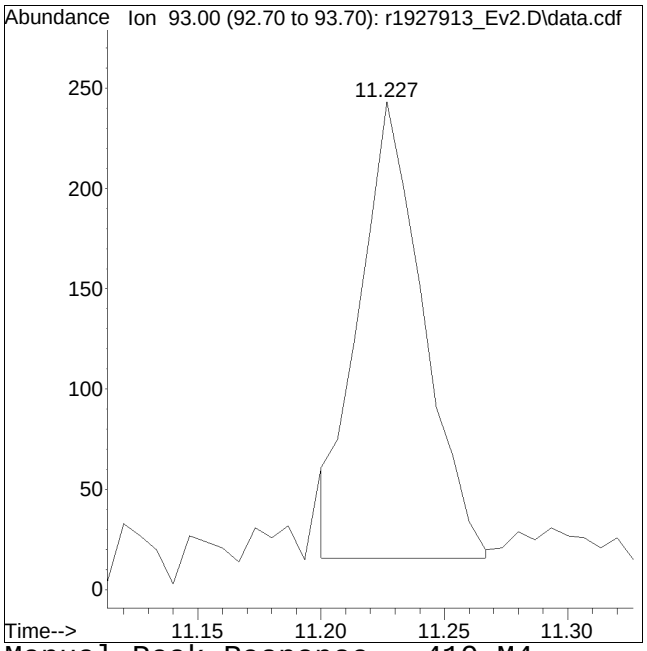
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #40: Dibromomethane



Original Peak Response = 459



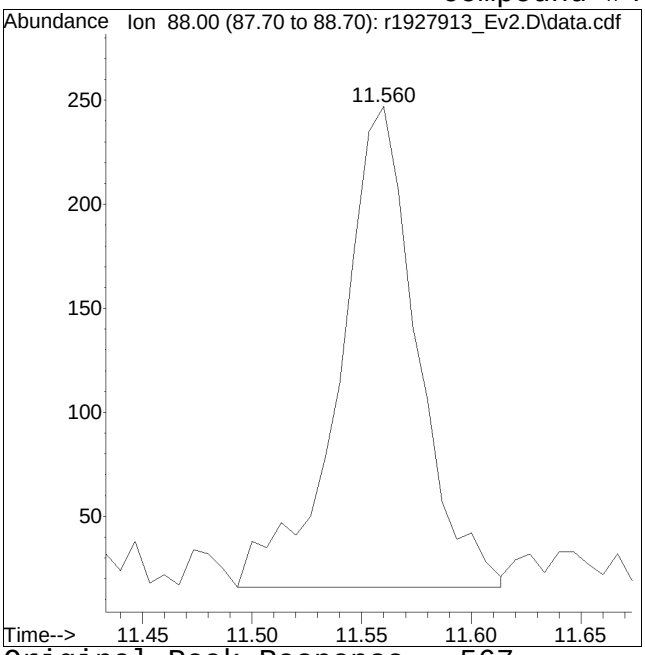
Manual Peak Response = 410 M4

M4 = Poor automated baseline construction.

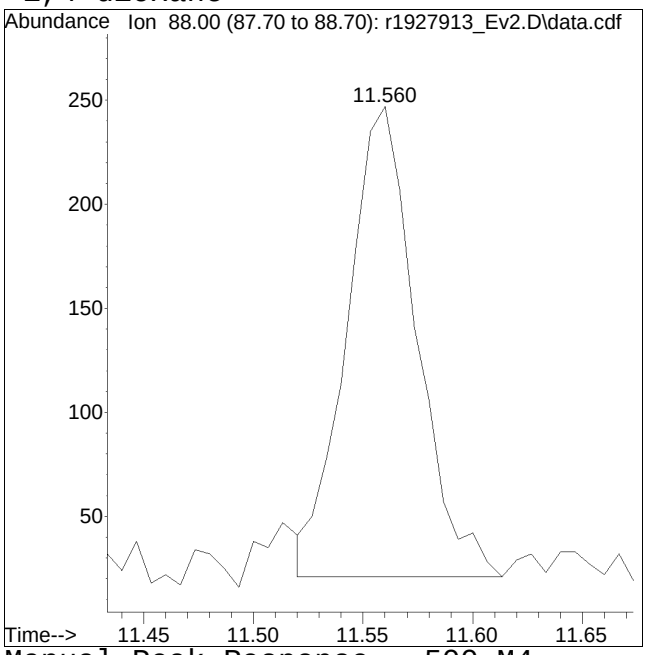
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #43: 1,4-dioxane



Original Peak Response = 567



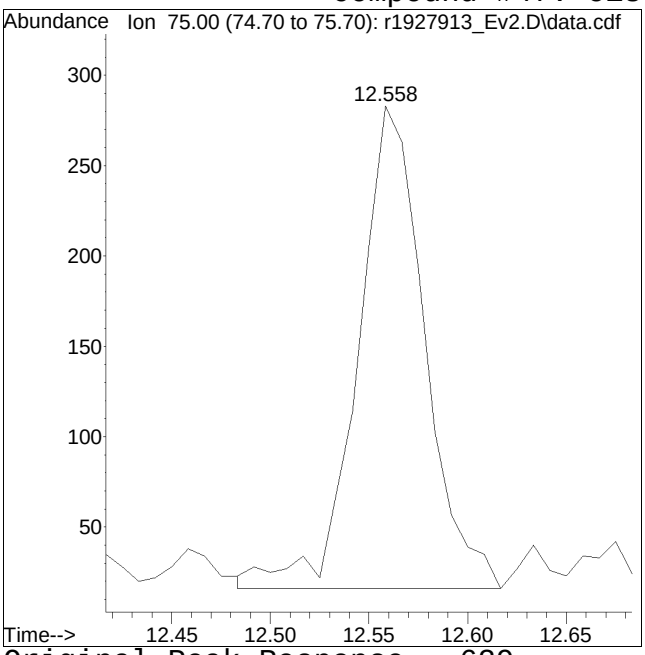
Manual Peak Response = 500 M4

M4 = Poor automated baseline construction.

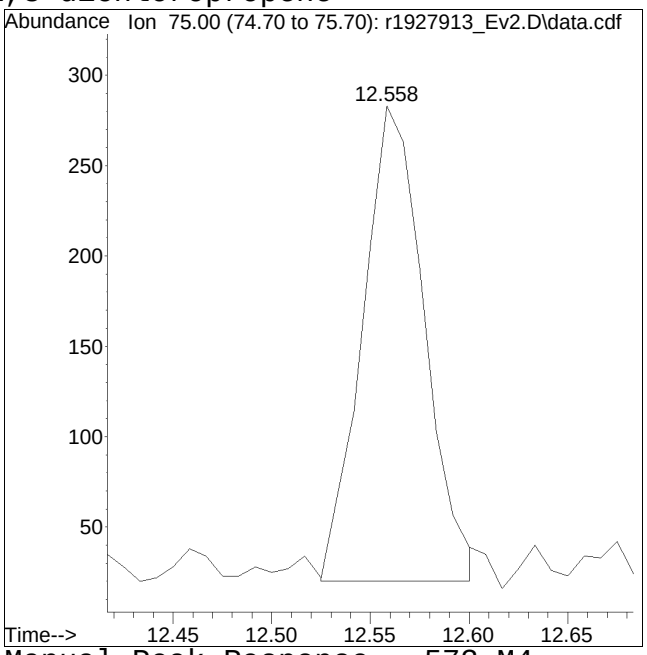
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 629



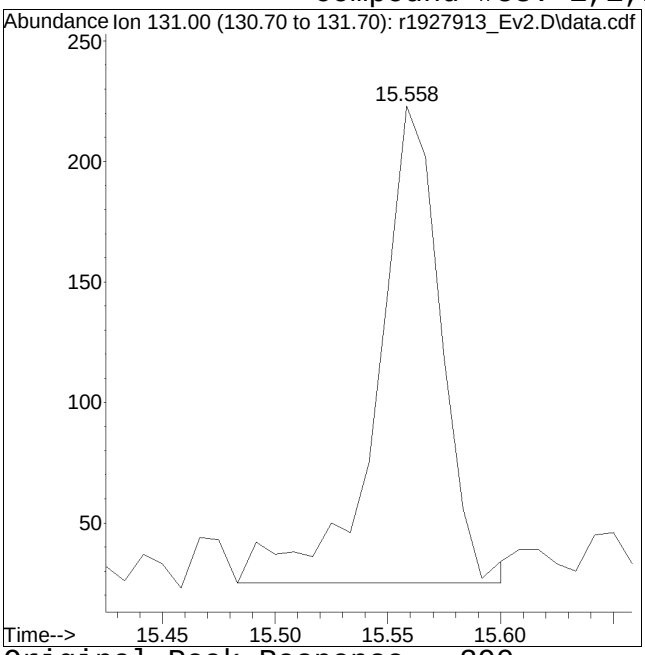
Manual Peak Response = 573 M4

M4 = Poor automated baseline construction.

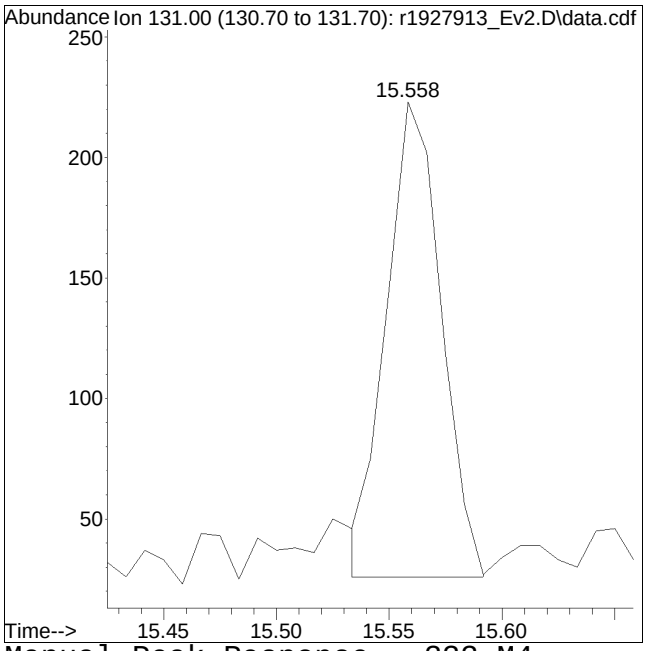
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response = 390



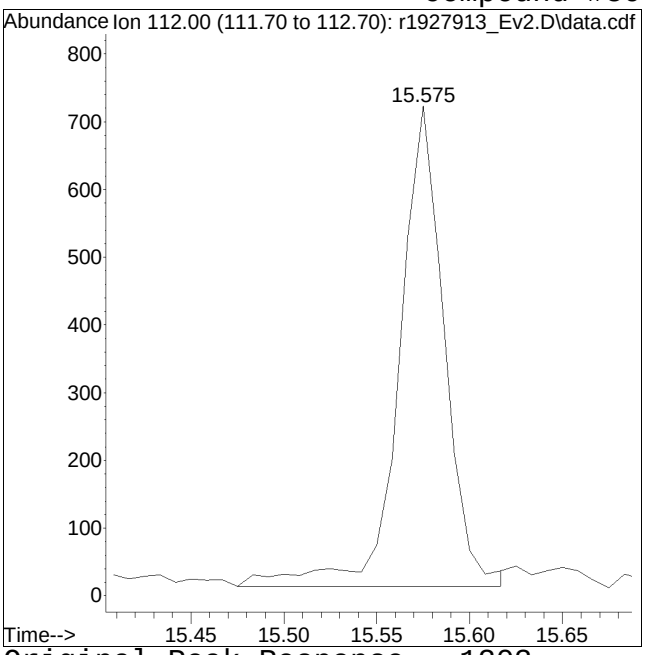
Manual Peak Response = 333 M4

M4 = Poor automated baseline construction.

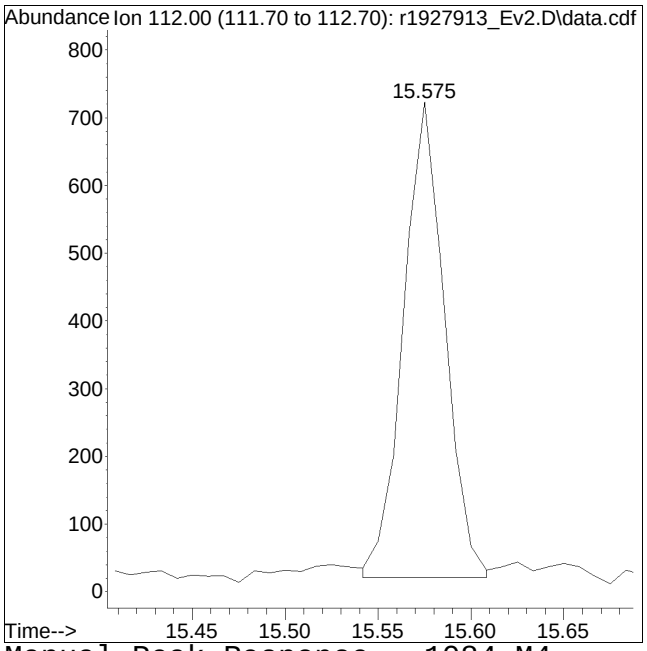
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #59: chlorobenzene



Original Peak Response = 1203



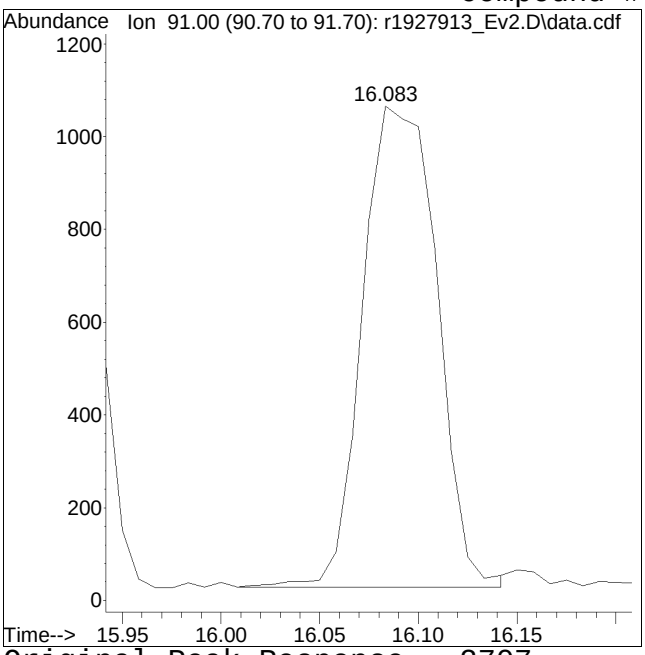
Manual Peak Response = 1084 M4

M4 = Poor automated baseline construction.

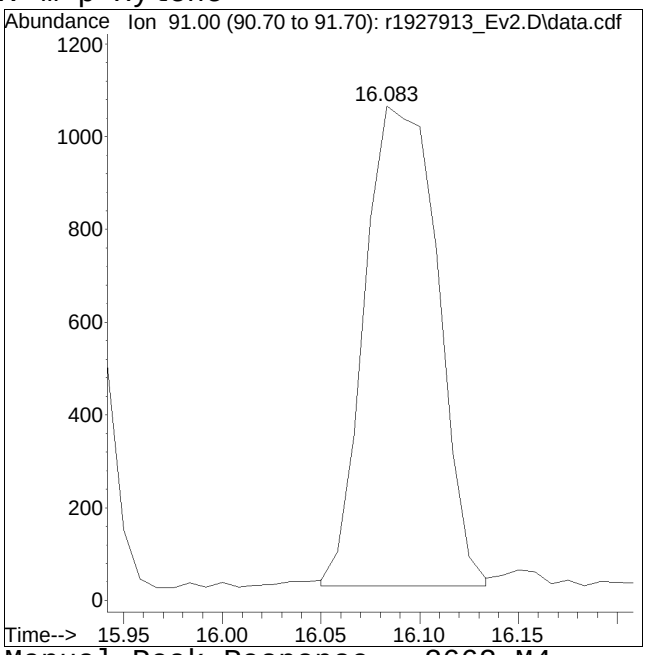
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #61: m+p-xylene



Original Peak Response = 2707



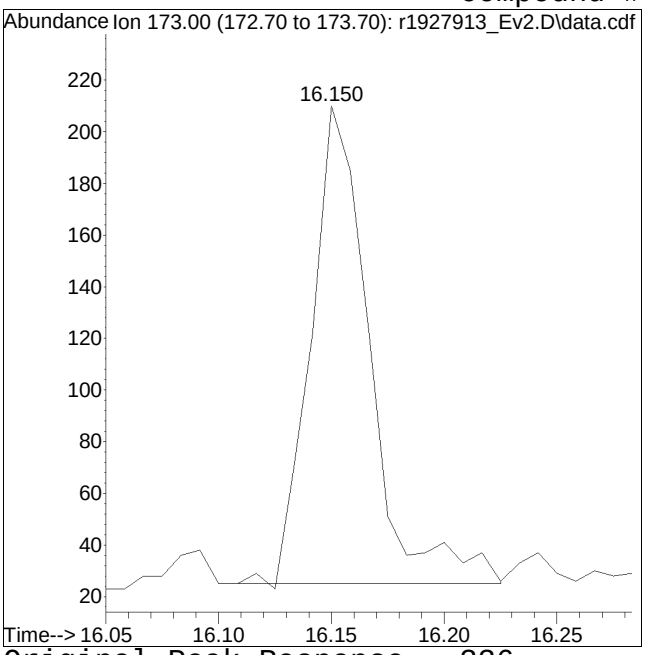
Manual Peak Response = 2662 M4

M4 = Poor automated baseline construction.

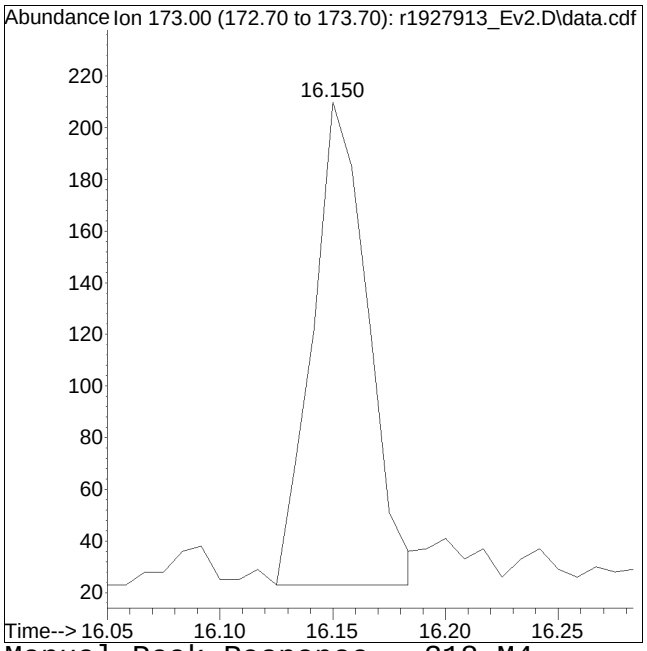
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #62: bromoform



Original Peak Response = 336



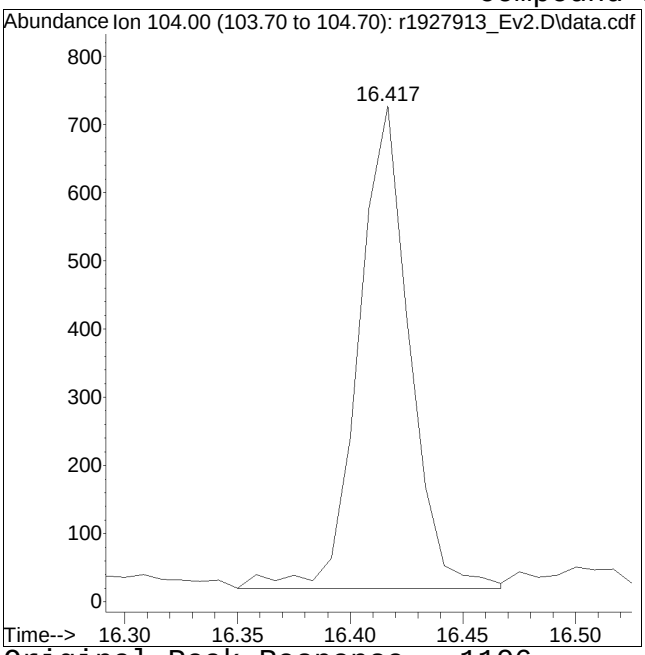
Manual Peak Response = 318 M4

M4 = Poor automated baseline construction.

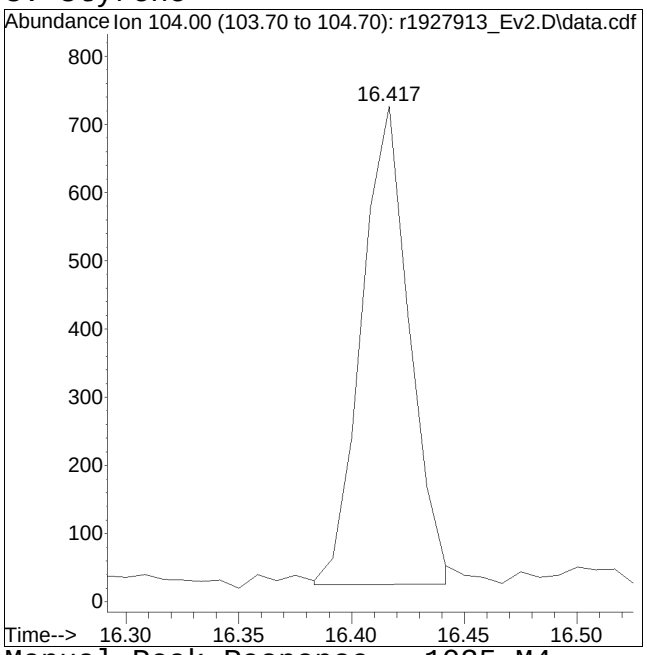
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #63: styrene



Original Peak Response = 1106



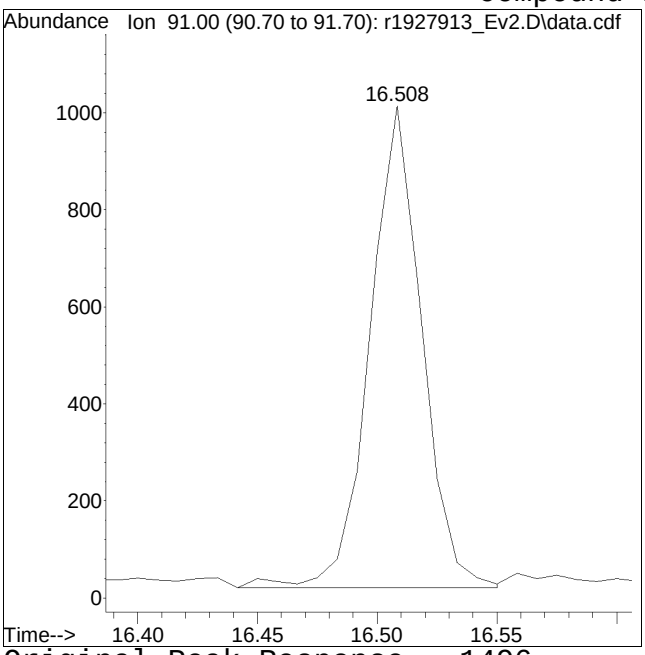
Manual Peak Response = 1035 M4

M4 = Poor automated baseline construction.

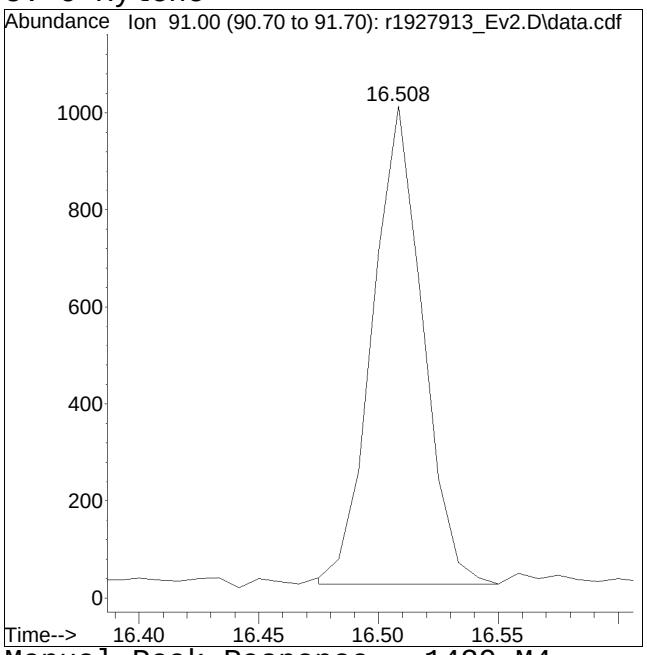
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #65: o-xylene



Original Peak Response = 1496



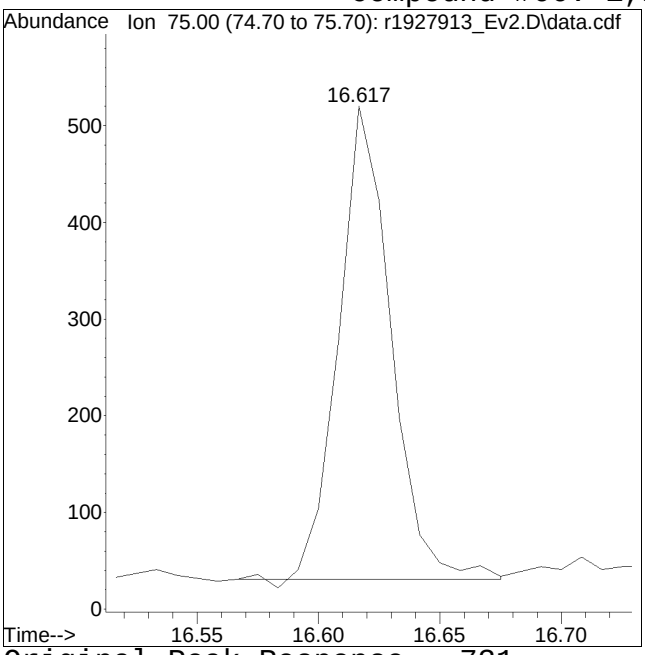
Manual Peak Response = 1429 M4

M4 = Poor automated baseline construction.

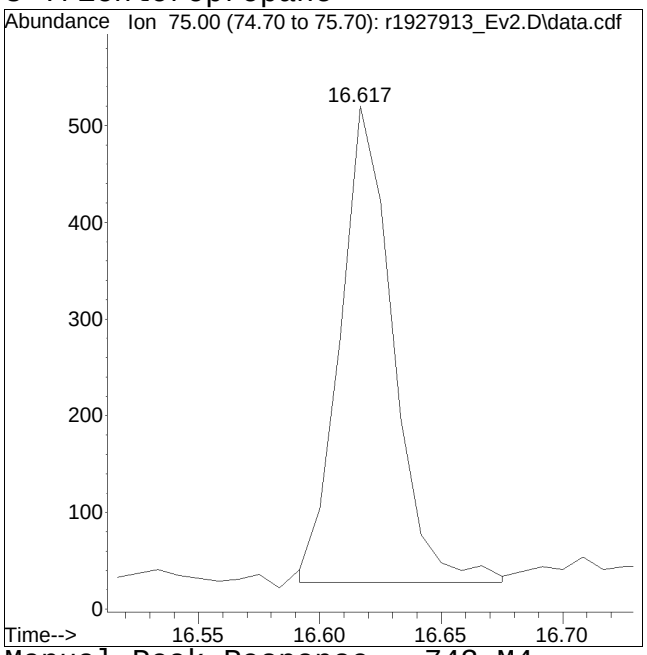
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #66: 1,2,3-Trichloropropane



Original Peak Response = 731



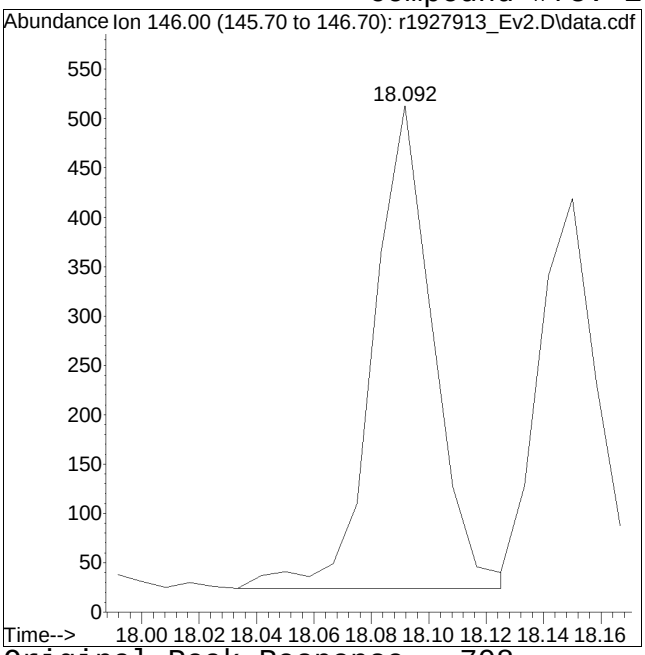
Manual Peak Response = 743 M4

M4 = Poor automated baseline construction.

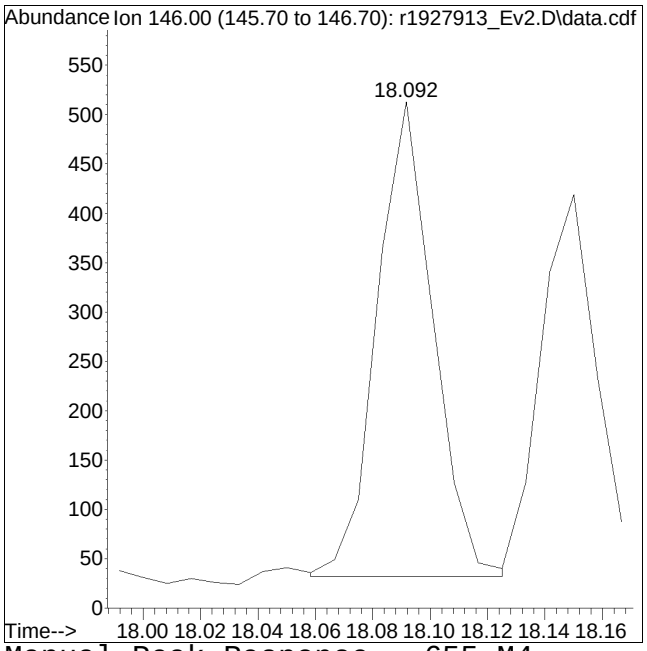
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #75: 1,3-dichlorobenzene



Original Peak Response = 708



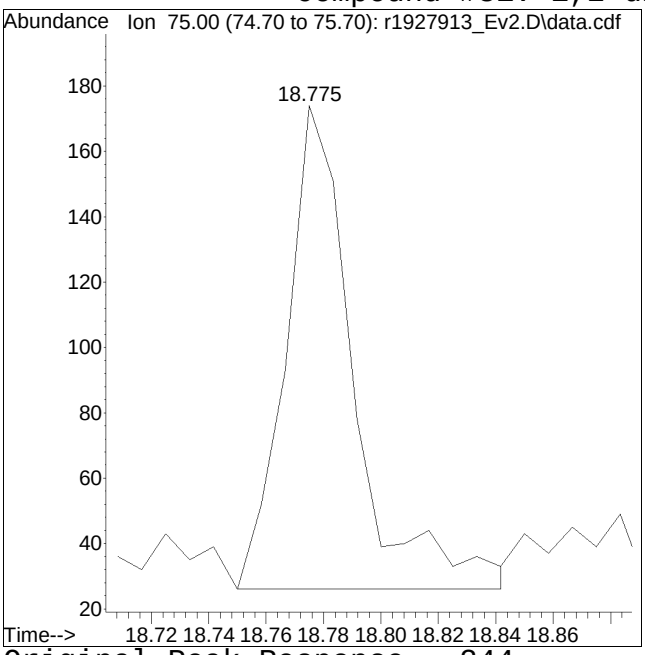
Manual Peak Response = 655 M4

M4 = Poor automated baseline construction.

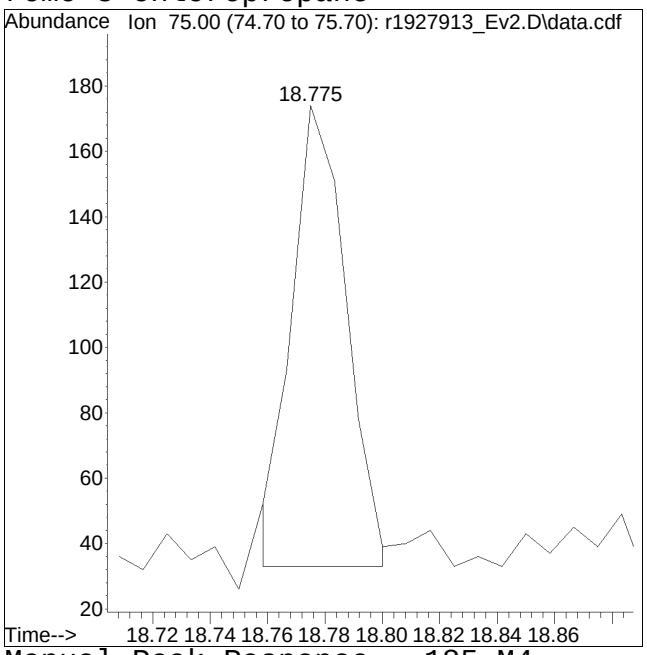
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #81: 1,2-dibromo-3-chloropropane



Original Peak Response = 244



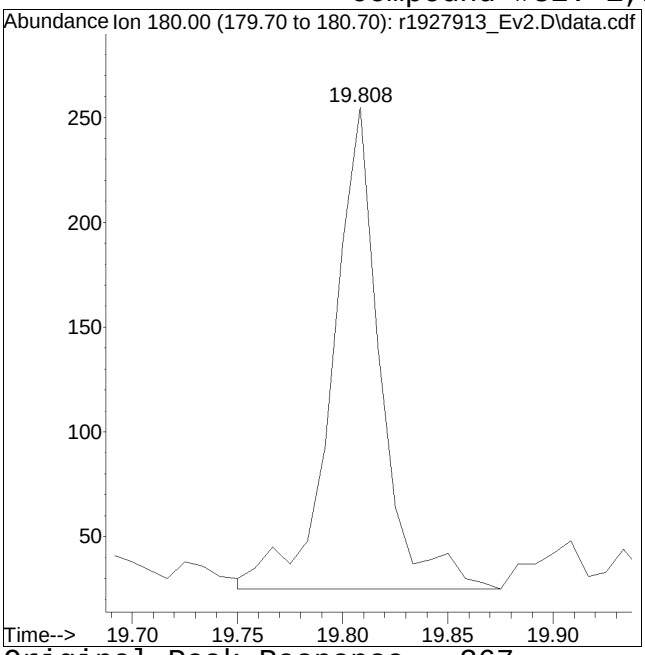
Manual Peak Response = 185 M4

M4 = Poor automated baseline construction.

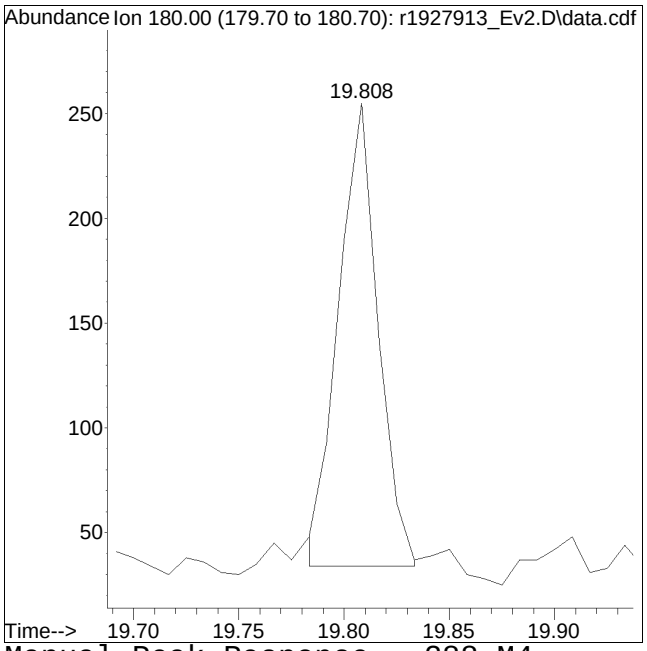
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #82: 1,2,4-trichlorobenzene



Original Peak Response = 367



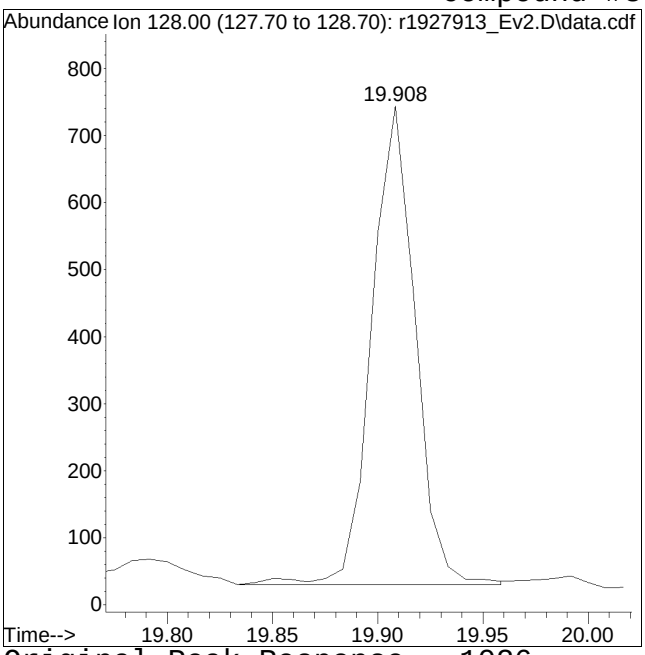
Manual Peak Response = 288 M4

M4 = Poor automated baseline construction.

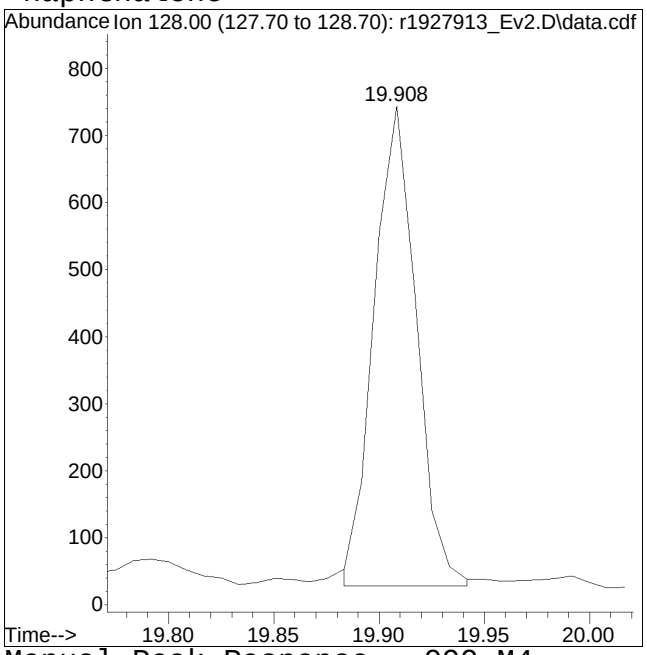
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #83: naphthalene



Original Peak Response = 1026



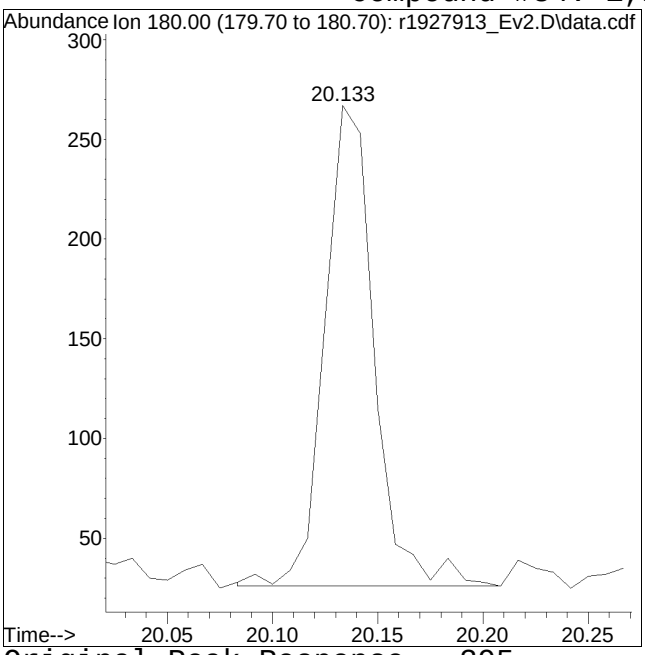
Manual Peak Response = 999 M4

M4 = Poor automated baseline construction.

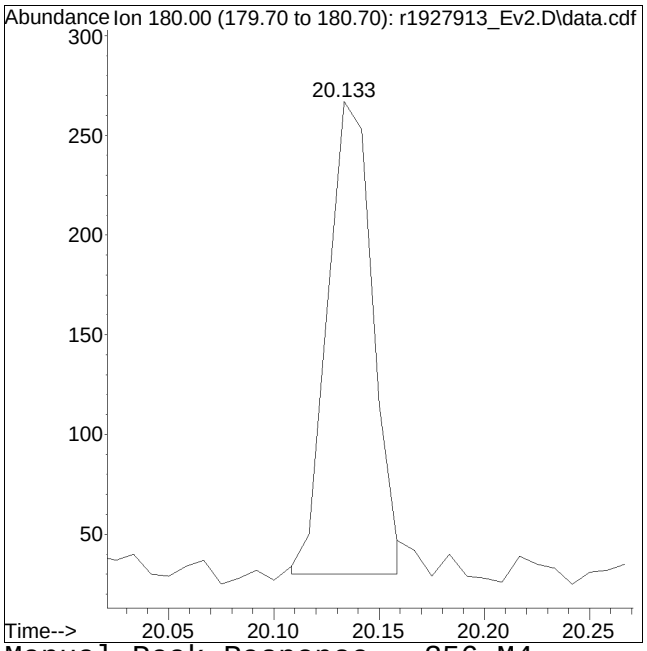
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #84: 1,2,3-trichlorobenzene



Original Peak Response = 395



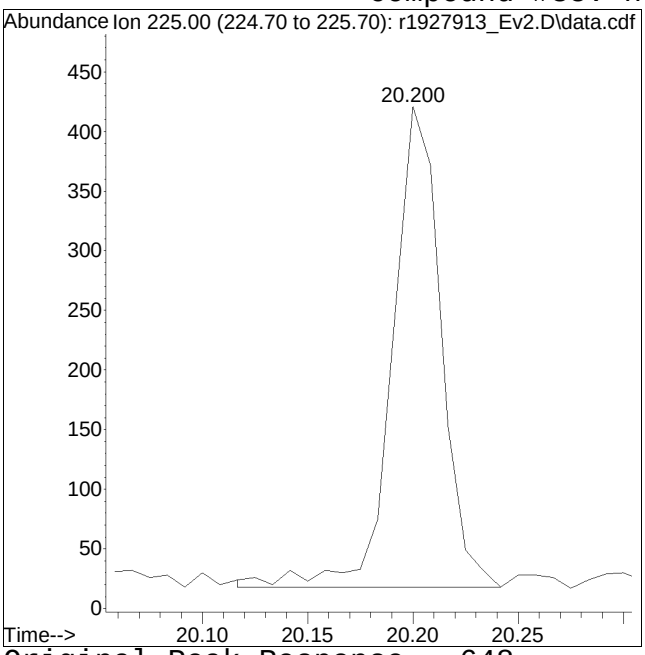
Manual Peak Response = 356 M4

M4 = Poor automated baseline construction.

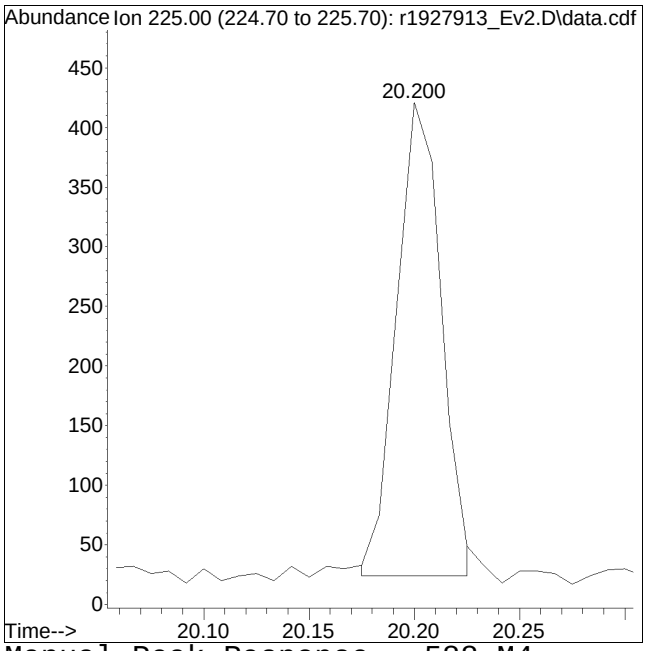
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927913_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:8: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 2/22/2024 9:41 am

Compound #85: hexachlorobutadiene



Original Peak Response = 648



Manual Peak Response = 588 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927914_Ev2.D
Acq On : 21 Feb 2024 9:13 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:46 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.492	49	216914	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 95.95%			
33) 1,4-difluorobenzene	10.747	114	761571	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 101.55%			
51) chlorobenzene-D5	15.533	54	103631	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 93.13%			
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	13.600	98	22643	0.269	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.69%#			
67) bromofluorobenzene	16.900	95	6038	0.109	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.09%#			
Target Compounds						Qvalue
2) propylene	3.410	41	1488M6	0.103	ppbV	
3) dichlorodifluoromethane	3.476	85	1222	0.051	ppbV	99
4) chloromethane	3.626	50	604	0.061	ppbV	92
5) Freon-114	3.728	85	1314	0.052	ppbV	97
6) vinyl chloride	3.836	62	760	0.052	ppbV	97
7) 1,3-butadiene	3.968	54	524M4	0.052	ppbV	
8) bromomethane	4.232	94	495M4	0.050	ppbV	
9) chloroethane	4.406	64	396M4	0.050	ppbV	
10) ethanol	4.526	31	11755	1.030	ppbV	98
11) vinyl bromide	4.763	106	793	0.053	ppbV	95
12) acrolein	4.890	56	459M4	0.056	ppbV	
13) acetone	5.033	43	7712	0.348	ppbV #	95
14) trichlorofluoromethane	5.213	101	1570	0.052	ppbV	93
15) isopropyl alcohol	5.317	45	2440	0.104	ppbV	98
16) acrylonitrile	5.537	53	815	0.060	ppbV	95
17) 1,1-dichloroethene	5.914	61	1363	0.049	ppbV	95
18) tertiary butyl alcohol	5.986	59	1283M4	0.039	ppbV	
19) methylene chloride	6.052	49	1511	0.091	ppbV	93
20) 3-chloropropene	6.184	41	1382	0.054	ppbV	95
21) carbon disulfide	6.358	76	5077	0.108	ppbV #	65
22) Freon 113	6.364	101	1660	0.053	ppbV	99
23) trans-1,2-dichloroethene	7.117	61	1484	0.052	ppbV	97
24) 1,1-dichloroethane	7.342	63	1883	0.052	ppbV	96

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927914_Ev2.D
Acq On : 21 Feb 2024 9:13 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:46 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.433	73	2351	0.053	ppbV		97
26) vinyl acetate	7.542	43	1528	0.049	ppbV		98
27) 2-butanone	7.817	43	2062	0.056	ppbV	#	93
28) cis-1,2-dichloroethene	8.308	61	1373	0.051	ppbV		96
29) Ethyl Acetate	8.600	61	368M4	0.053	ppbV		
30) chloroform	8.650	83	1400	0.055	ppbV		98
31) Tetrahydrofuran	9.117	42	1426M6	0.062	ppbV		
32) 1,2-dichloroethane	9.483	62	1107	0.051	ppbV		95
34) hexane	8.567	57	1749M4	0.050	ppbV		
36) 1,1,1-trichloroethane	9.780	97	1127M4	0.042	ppbV		
37) benzene	10.307	78	2988	0.053	ppbV		96
38) carbon tetrachloride	10.487	117	992	0.045	ppbV		94
39) cyclohexane	10.627	56	1812	0.051	ppbV		95
40) Dibromomethane	11.227	93	969	0.058	ppbV	#	96
41) 1,2-dichloropropane	11.260	63	1182M4	0.045	ppbV		
42) bromodichloromethane	11.493	83	1227M4	0.045	ppbV		
43) 1,4-dioxane	11.560	88	753M4	0.060	ppbV		
44) trichloroethene	11.547	130	1062M4	0.049	ppbV		
45) 2,2,4-trimethylpentane	11.600	57	5286	0.048	ppbV	#	94
46) heptane	11.920	43	1992	0.051	ppbV		96
47) cis-1,3-dichloropropene	12.558	75	1379	0.046	ppbV		94
48) 4-methyl-2-pentanone	12.617	43	2204	0.048	ppbV		97
49) trans-1,3-dichloropropene	13.183	75	934	0.039	ppbV	#	88
50) 1,1,2-trichloroethane	13.383	97	1070	0.046	ppbV		97
52) toluene	13.717	91	3766	0.061	ppbV		100
54) 2-hexanone	14.042	43	1855	0.046	ppbV		96
55) dibromochloromethane	14.192	129	1040	0.045	ppbV	#	95
56) 1,2-dibromoethane	14.450	107	1455	0.047	ppbV		100
57) tetrachloroethene	14.933	166	1351M4	0.057	ppbV		
58) 1,1,1,2-tetrachloroethane	15.558	131	771M4	0.043	ppbV		
59) chlorobenzene	15.575	112	2705	0.053	ppbV		97
60) ethylbenzene	15.925	91	3883	0.049	ppbV		98
61) m+p-xylene	16.083	91	6294	0.096	ppbV		97
62) bromoform	16.150	173	856	0.042	ppbV		99
63) styrene	16.417	104	2533	0.043	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	1996	0.048	ppbV		96
65) o-xylene	16.508	91	3261	0.050	ppbV		96
66) 1,2,3-Trichloropropane	16.617	75	1730	0.051	ppbV		94
68) isopropylbenzene	17.017	105	4654	0.052	ppbV		97
69) Bromobenzene	17.083	77	1840	0.042	ppbV		93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927914_Ev2.D
Acq On : 21 Feb 2024 9:13 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:46 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

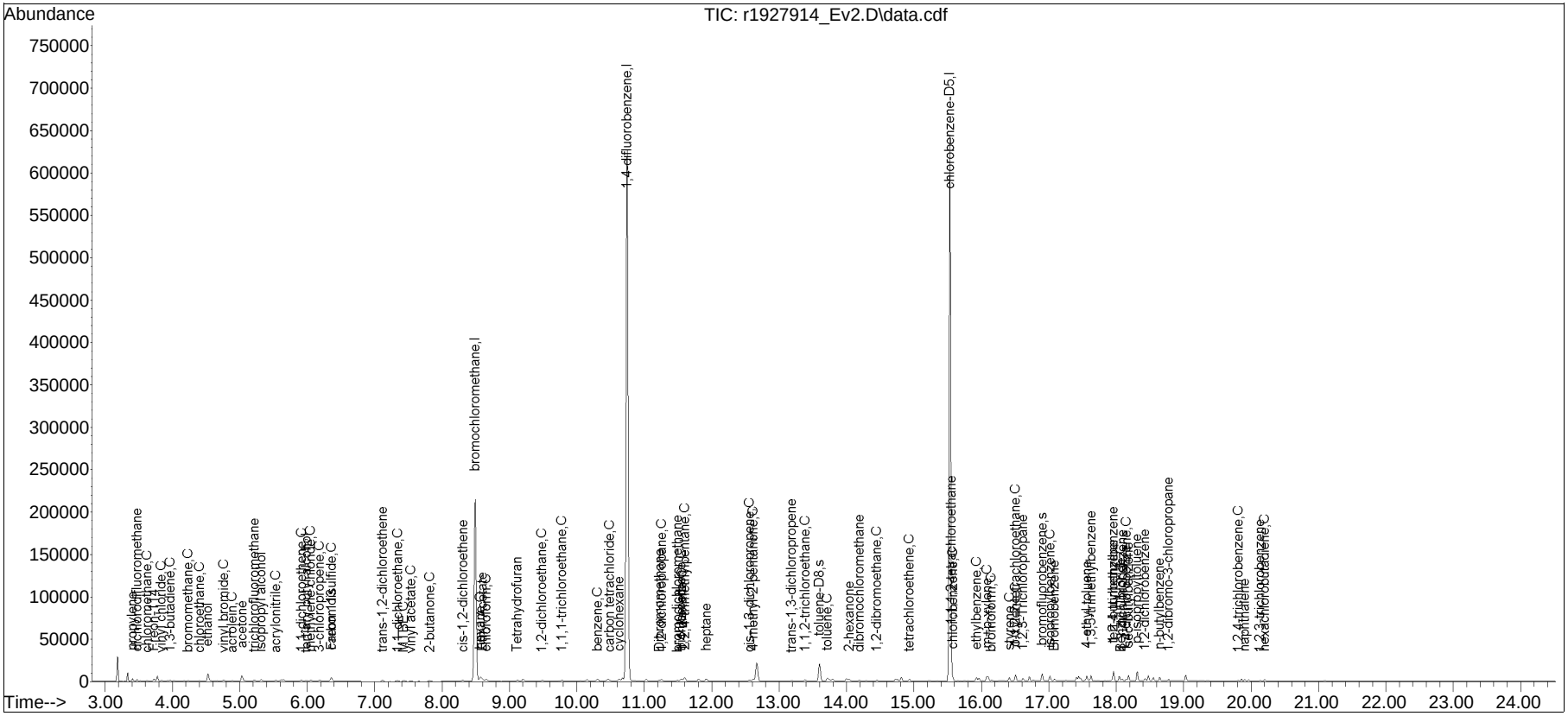
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	4409M4	0.046	ppbV		
71) 1,3,5-trimethylbenzene	17.625	105	4988	0.053	ppbV		97
72) tert-butylbenzene	17.958	119	4223	0.055	ppbV		97
73) 1,2,4-trimethylbenzene	17.958	105	4165	0.049	ppbV	#	90
74) Benzyl Chloride	18.075	91	884	0.020	ppbV		99
75) 1,3-dichlorobenzene	18.092	146	1620	0.037	ppbV		98
76) 1,4-dichlorobenzene	18.150	146	1331	0.030	ppbV		98
77) sec-butylbenzene	18.183	105	6094	0.053	ppbV		96
78) p-isopropyltoluene	18.308	119	4580	0.049	ppbV		97
79) 1,2-dichlorobenzene	18.425	146	1810	0.043	ppbV		98
80) n-butylbenzene	18.642	91	3519	0.043	ppbV		90
81) 1,2-dibromo-3-chloropr...	18.775	75	509	0.026	ppbV	#	71
82) 1,2,4-trichlorobenzene	19.808	180	767	0.021	ppbV	#	85
83) naphthalene	19.908	128	2542	0.029	ppbV		97
84) 1,2,3-trichlorobenzene	20.133	180	1003	0.032	ppbV	#	87
85) hexachlorobutadiene	20.200	225	1548M4	0.047	ppbV		

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

Sub List : Default-ICV-AP2 - All compounds listed1SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927914_Ev2.D
Acq On : 21 Feb 2024 9:13 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:46 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

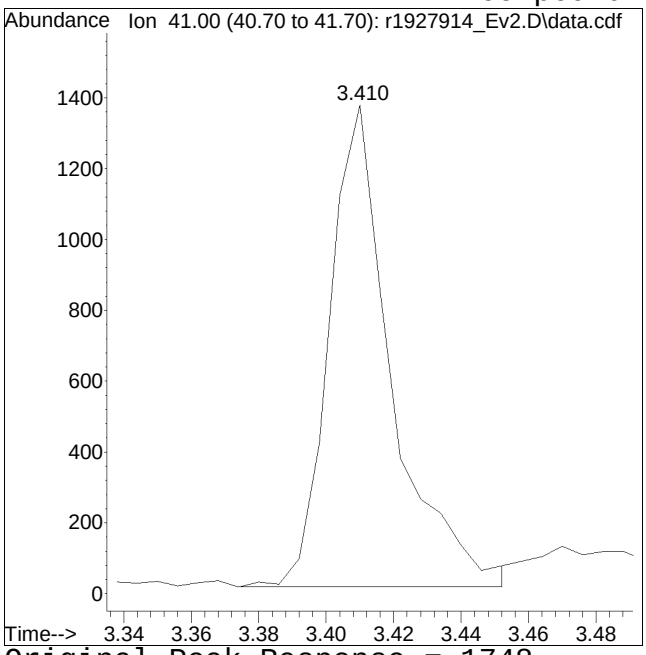


Manual Integration Report

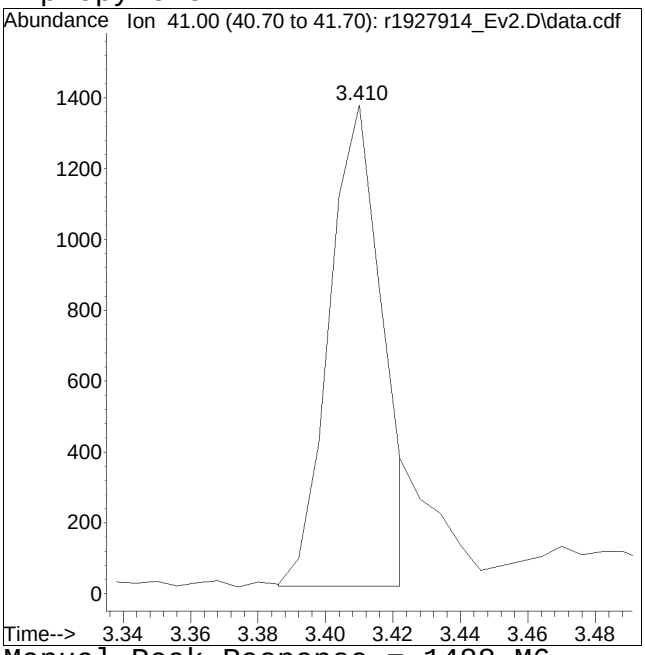
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927914_Ev2.D
Date Inj'd : 2/21/2020 0:9: 3
Sample : ITO15-SIMSTD0.05

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:41 am

Compound #2: propylene



Original Peak Response = 1748



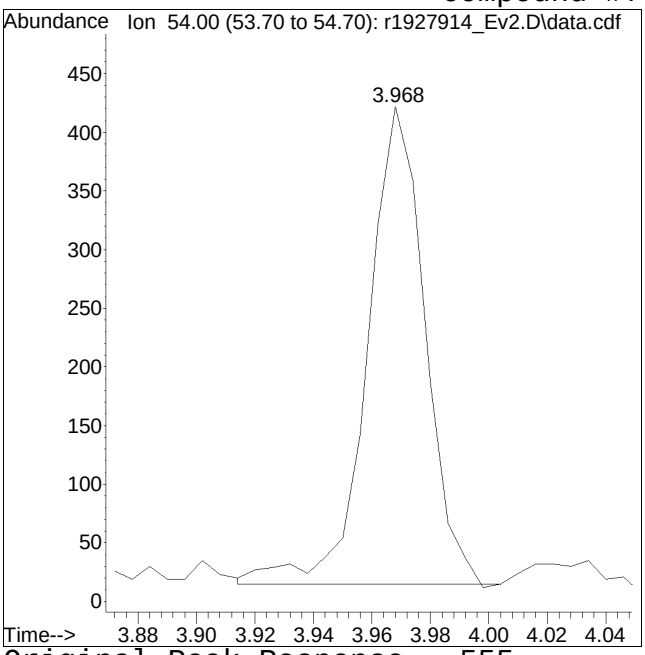
Manual Peak Response = 1488 M6

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

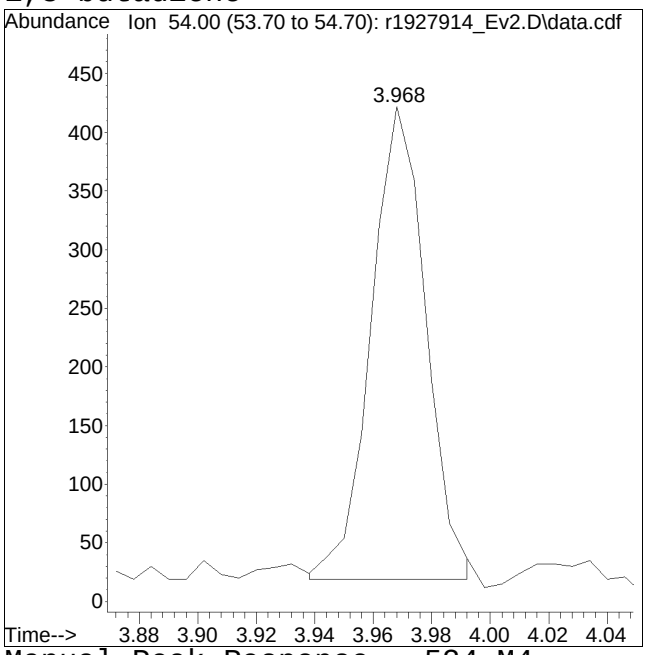
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #7: 1,3-butadiene



Original Peak Response = 555



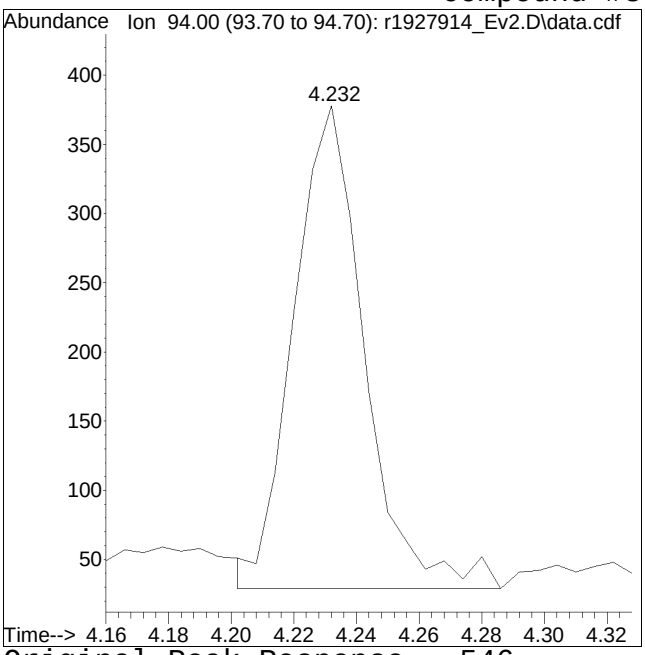
Manual Peak Response = 524 M4

M4 = Poor automated baseline construction.

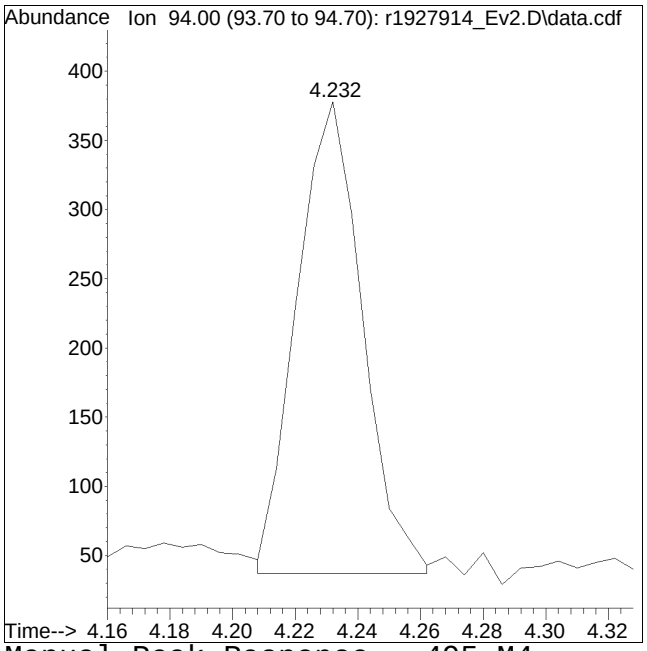
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #8: bromomethane



Original Peak Response = 546



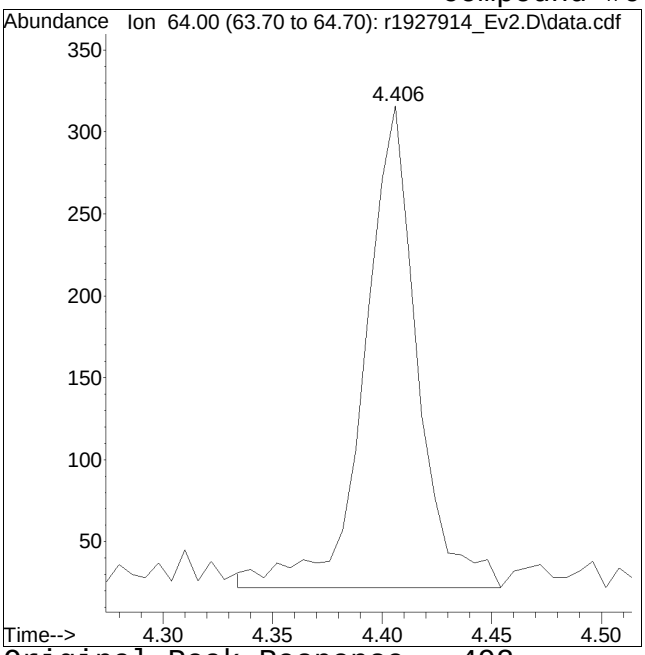
Manual Peak Response = 495 M4

M4 = Poor automated baseline construction.

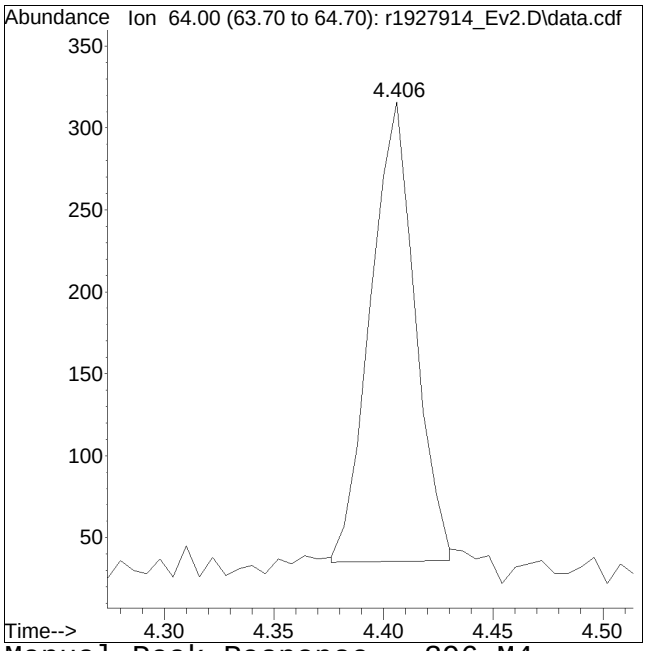
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #9: chloroethane



Original Peak Response = 492



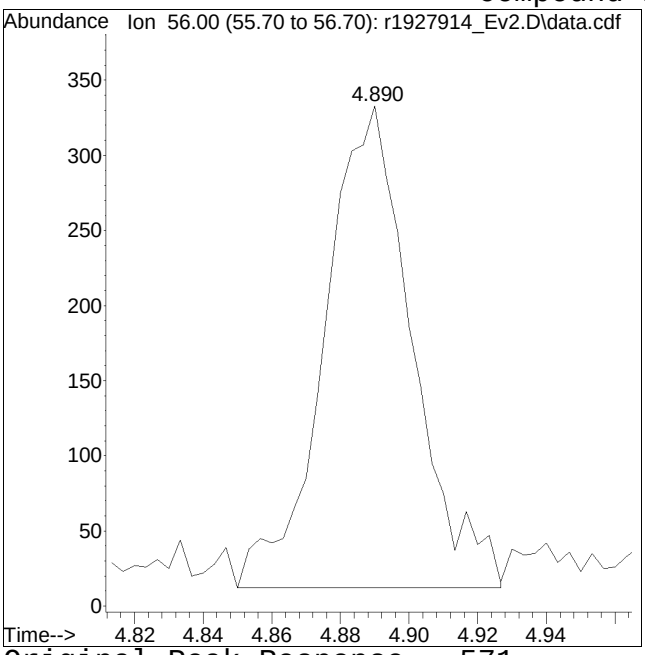
Manual Peak Response = 396 M4

M4 = Poor automated baseline construction.

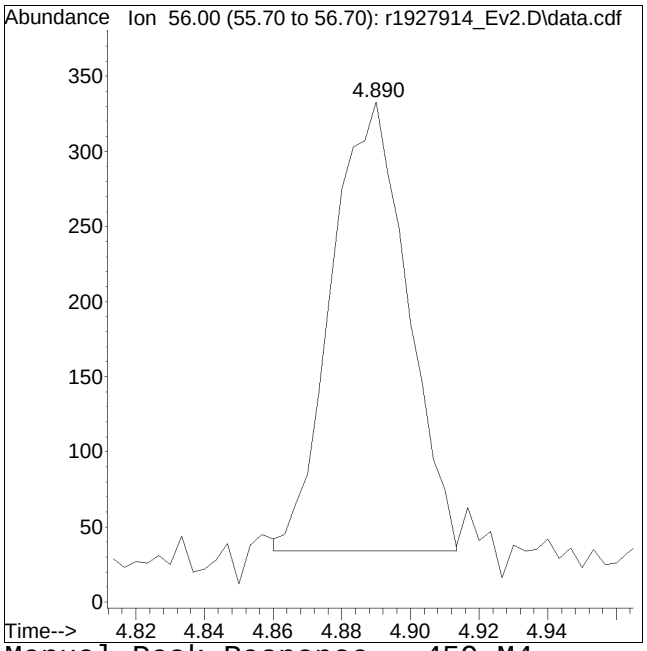
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #12: acrolein



Original Peak Response = 571



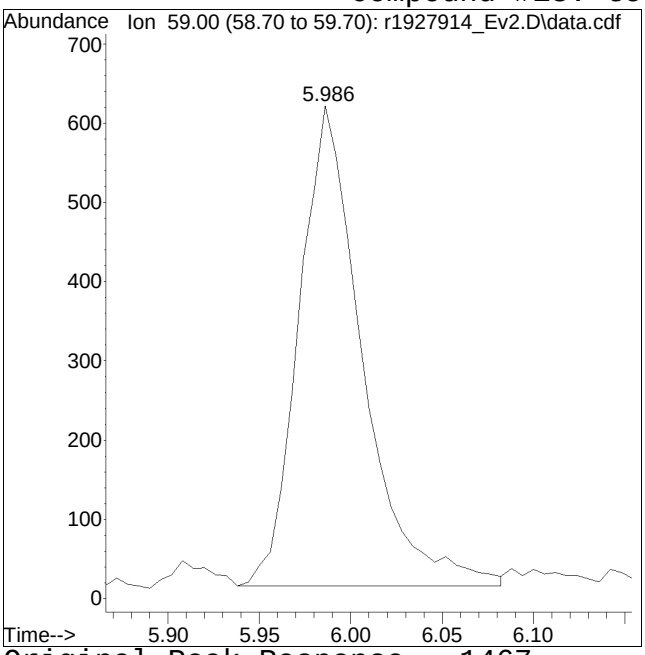
Manual Peak Response = 459 M4

M4 = Poor automated baseline construction.

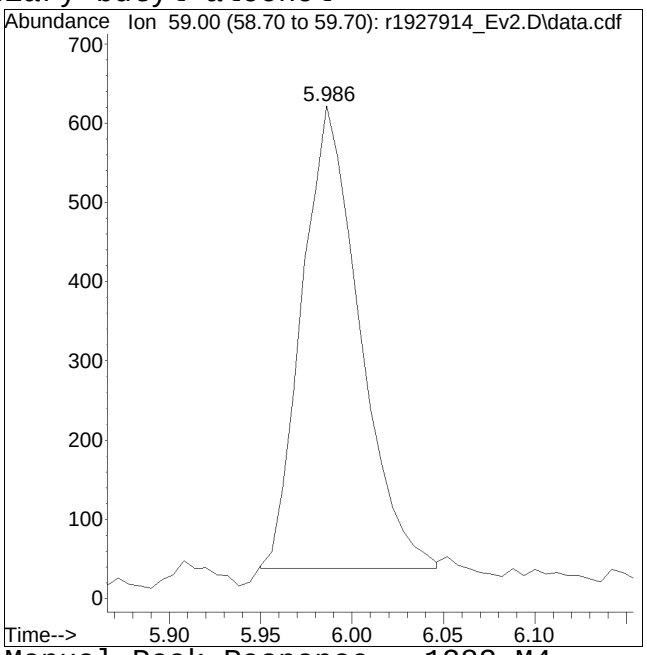
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 1467



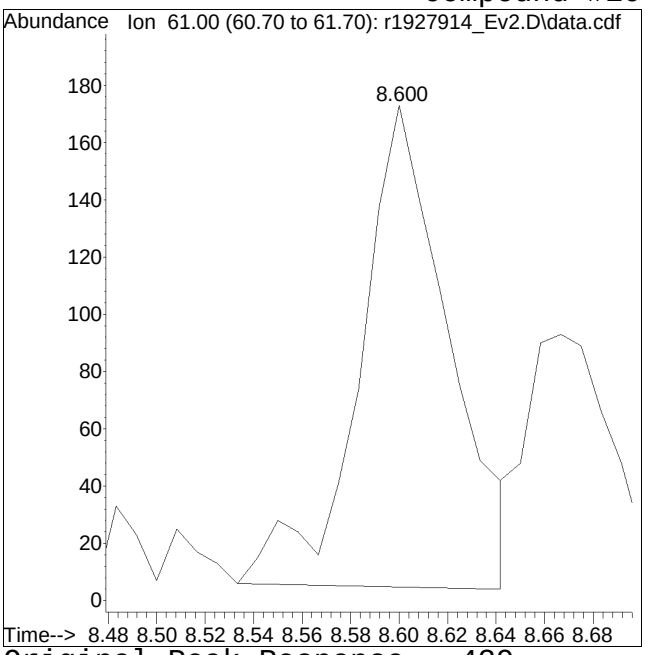
Manual Peak Response = 1283 M4

M4 = Poor automated baseline construction.

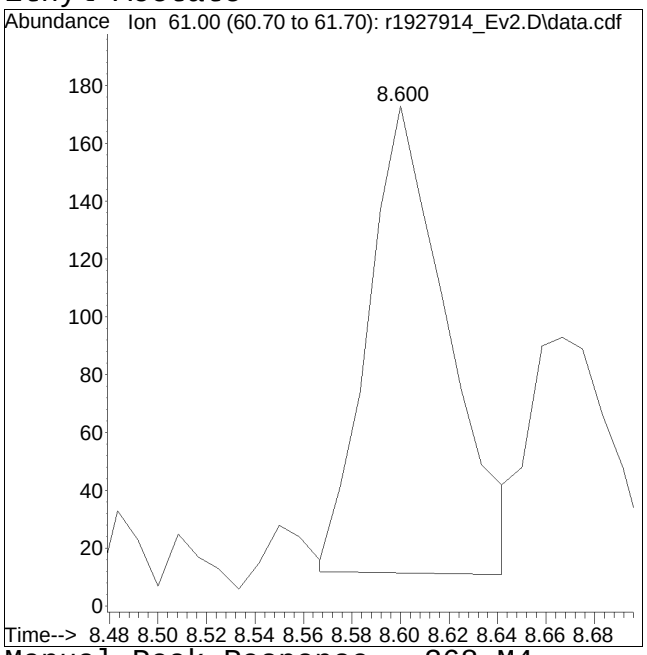
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #29: Ethyl Acetate



Original Peak Response = 429



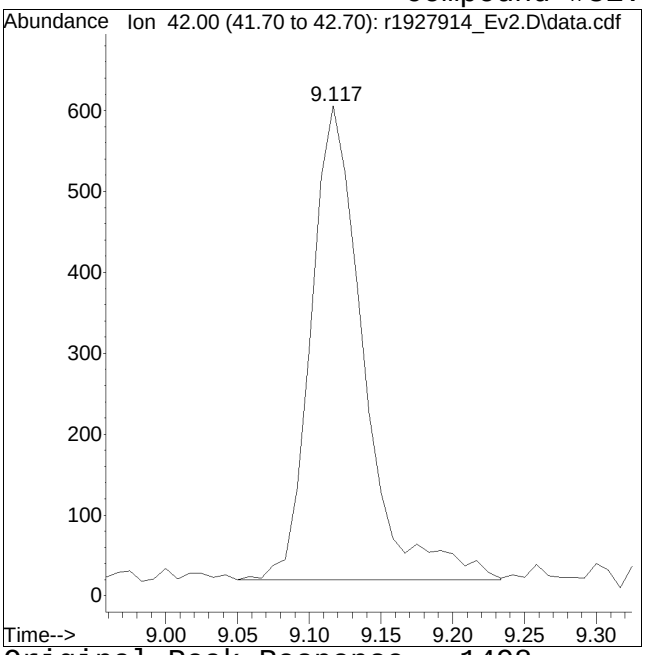
Manual Peak Response = 368 M4

M4 = Poor automated baseline construction.

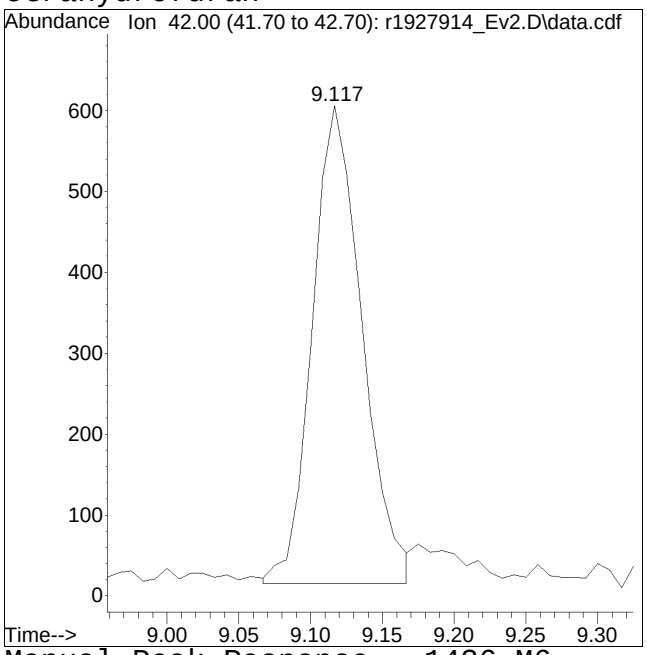
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #31: Tetrahydrofuran



Original Peak Response = 1498



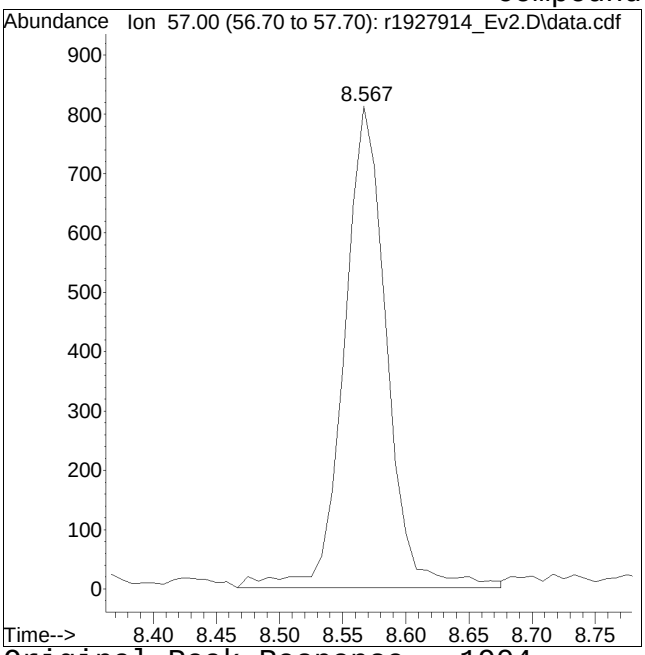
Manual Peak Response = 1426 M6

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

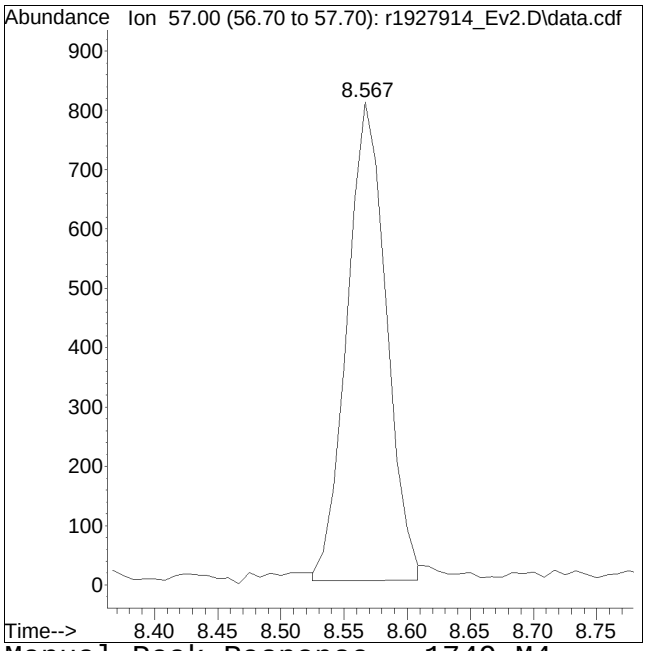
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #34: hexane



Original Peak Response = 1904



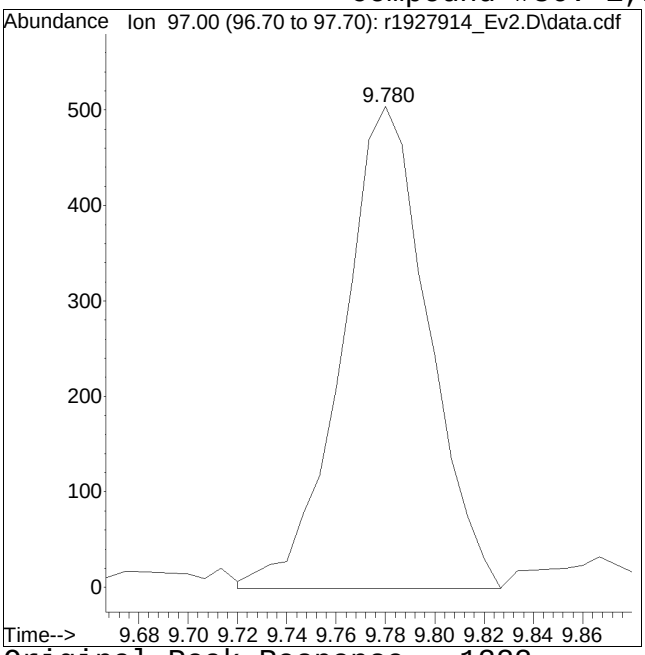
Manual Peak Response = 1749 M4

M4 = Poor automated baseline construction.

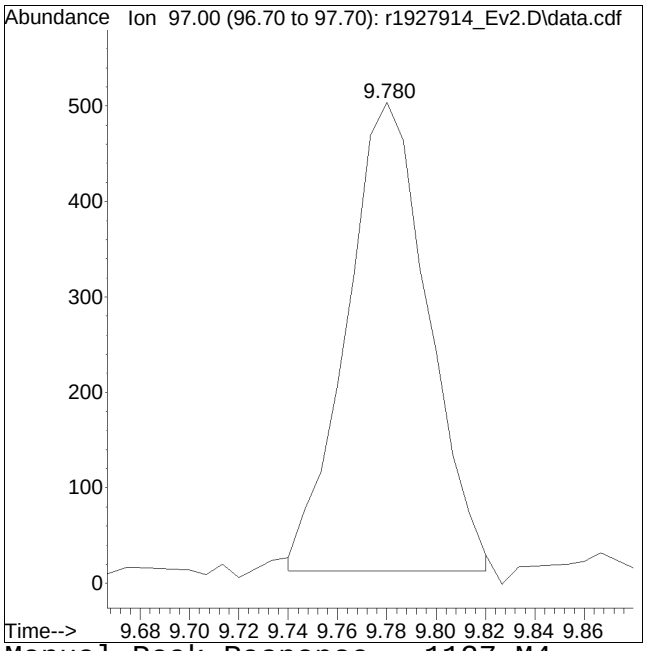
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 1222



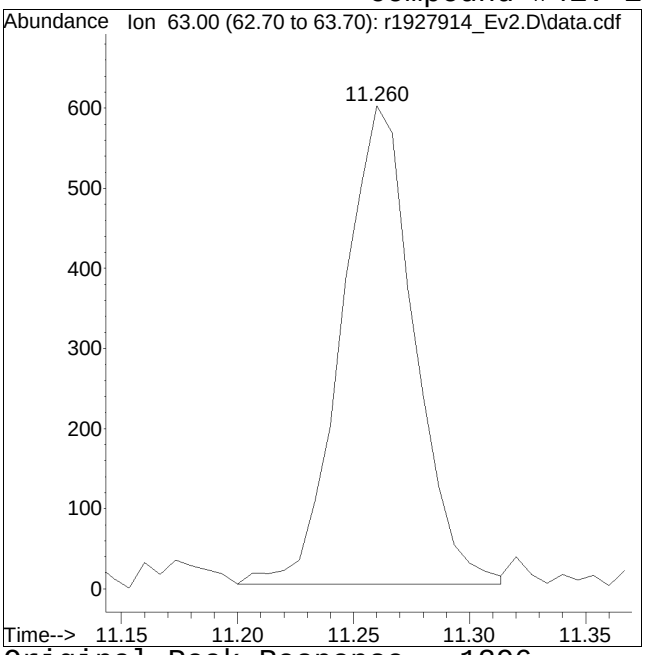
Manual Peak Response = 1127 M4

M4 = Poor automated baseline construction.

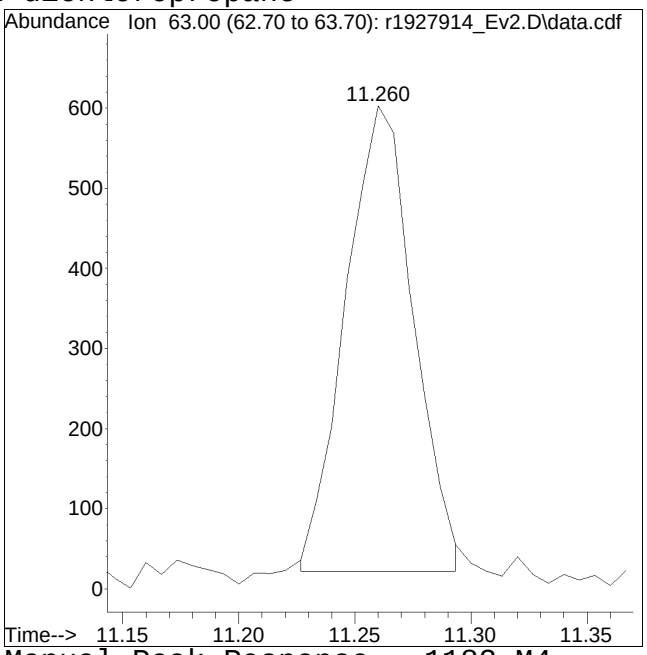
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #41: 1,2-dichloropropane



Original Peak Response = 1296



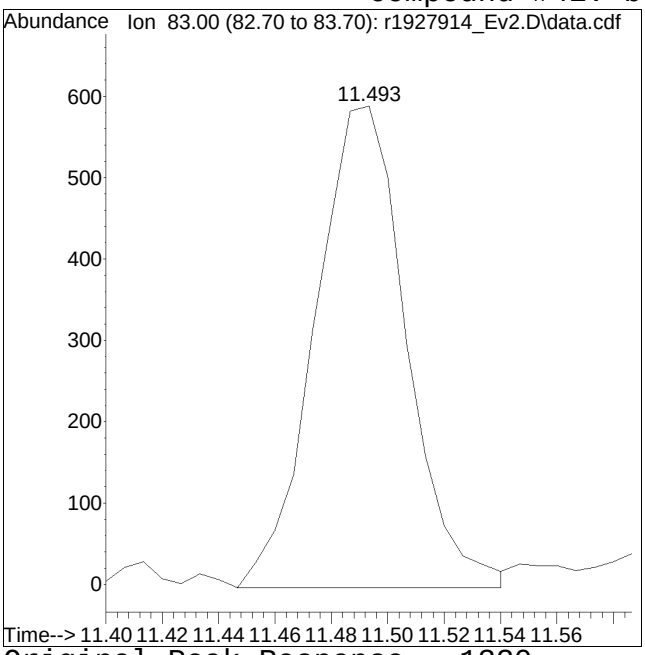
Manual Peak Response = 1182 M4

M4 = Poor automated baseline construction.

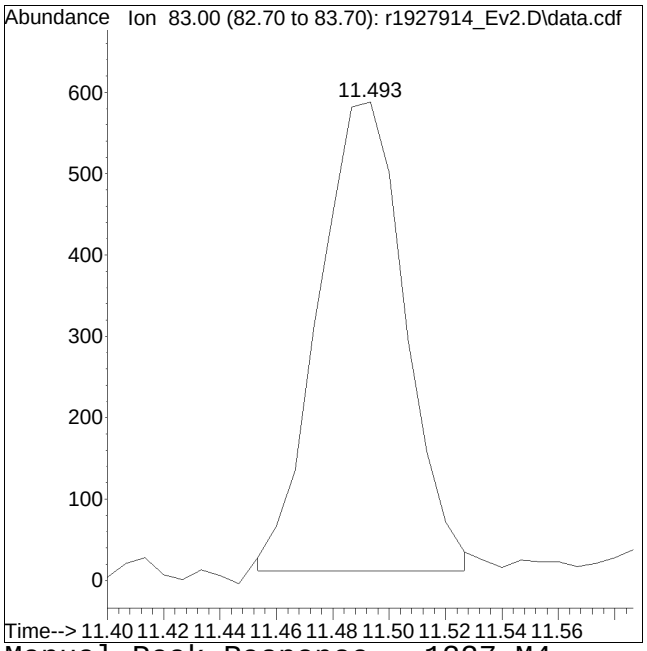
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #42: bromodichloromethane



Original Peak Response = 1330



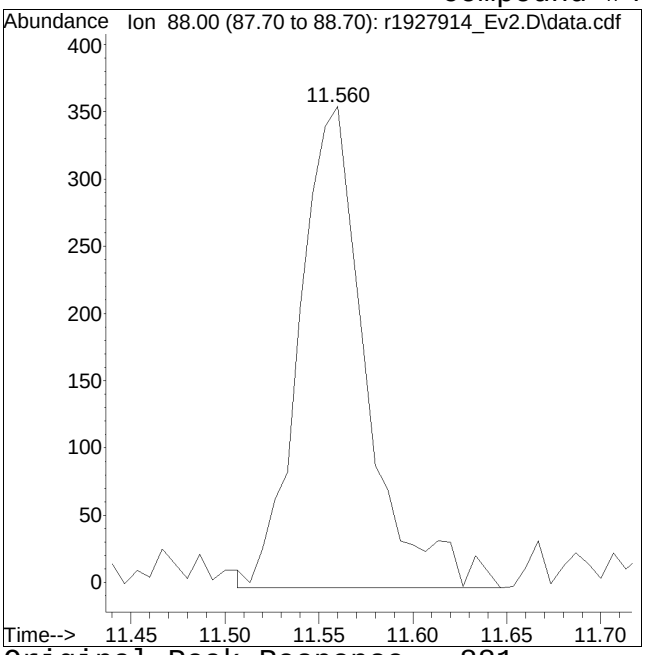
Manual Peak Response = 1227 M4

M4 = Poor automated baseline construction.

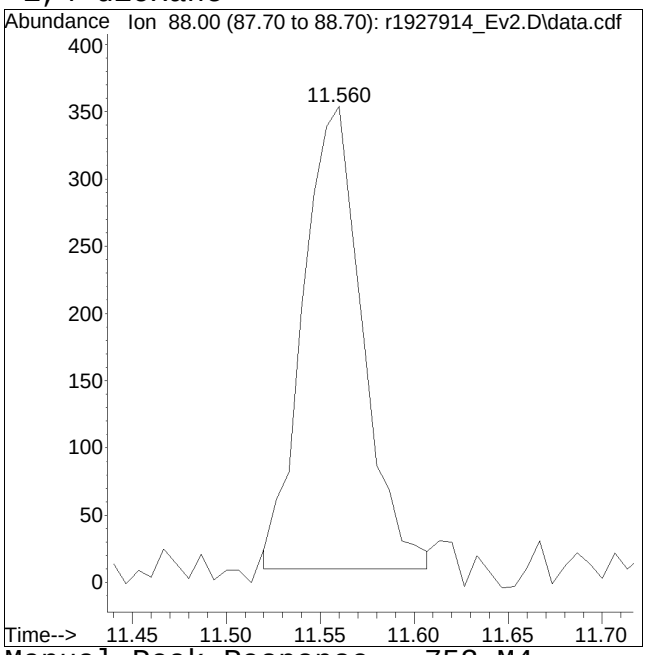
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #43: 1,4-dioxane



Original Peak Response = 881



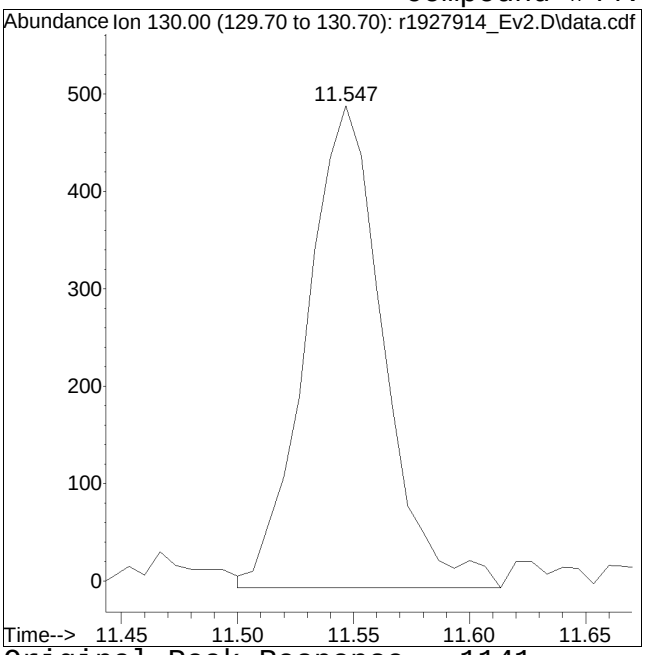
Manual Peak Response = 753 M4

M4 = Poor automated baseline construction.

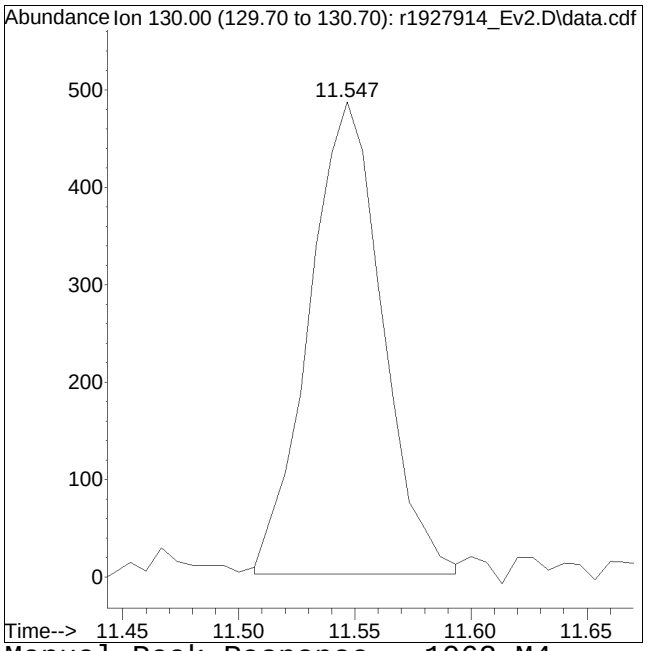
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #44: trichloroethene



Original Peak Response = 1141



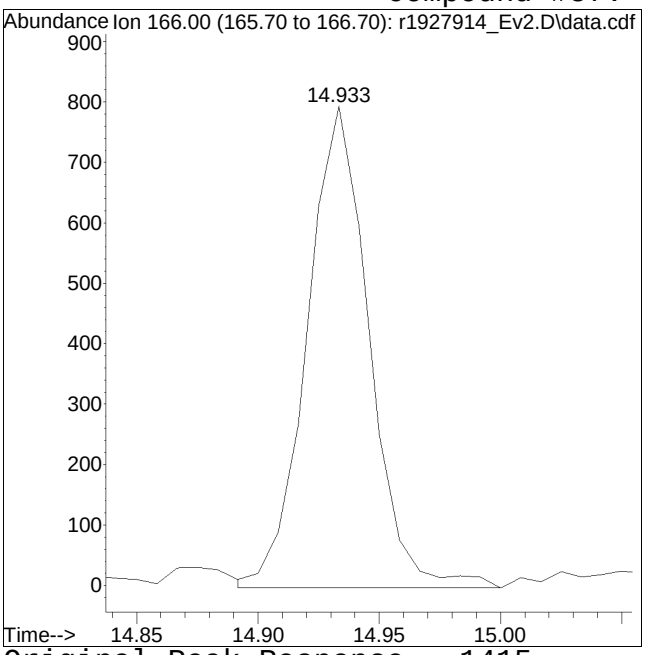
Manual Peak Response = 1062 M4

M4 = Poor automated baseline construction.

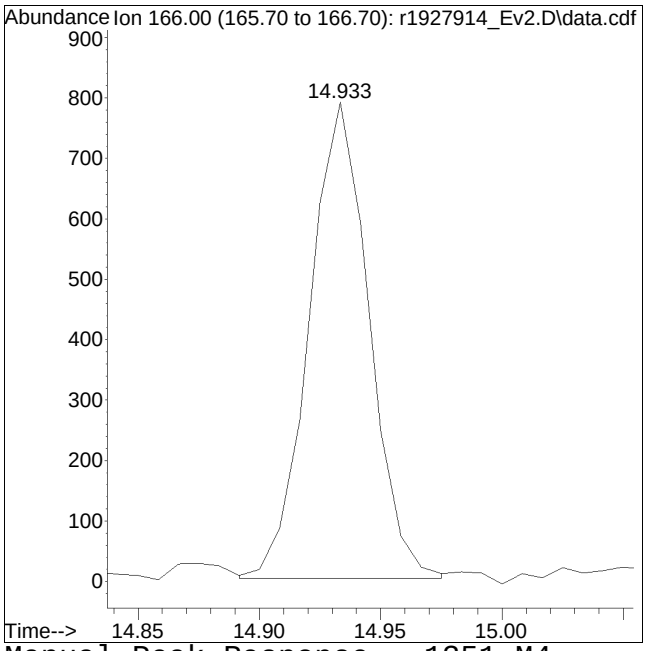
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #57: tetrachloroethene



Original Peak Response = 1415



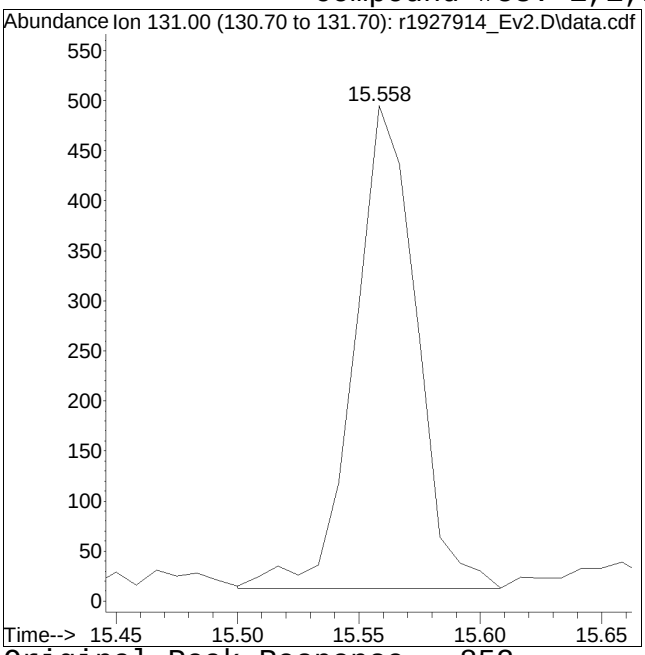
Manual Peak Response = 1351 M4

M4 = Poor automated baseline construction.

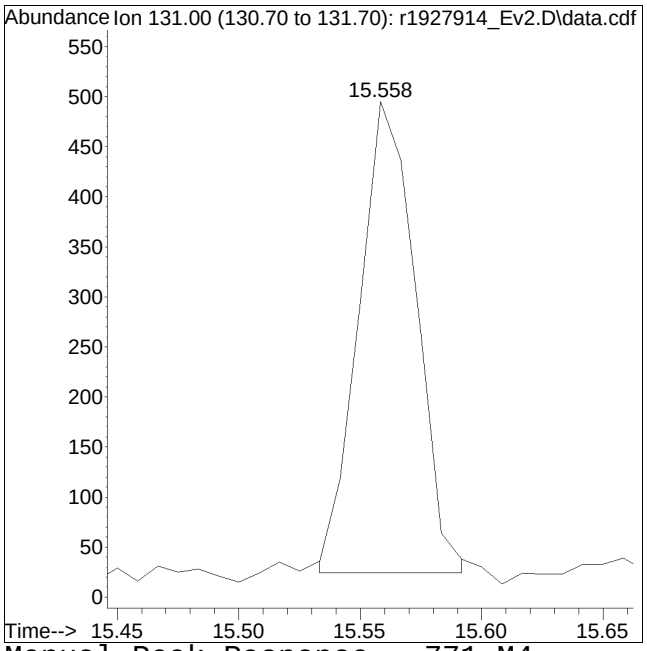
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #58: 1,1,1,2-tetrachloroethane



Original Peak Response = 852



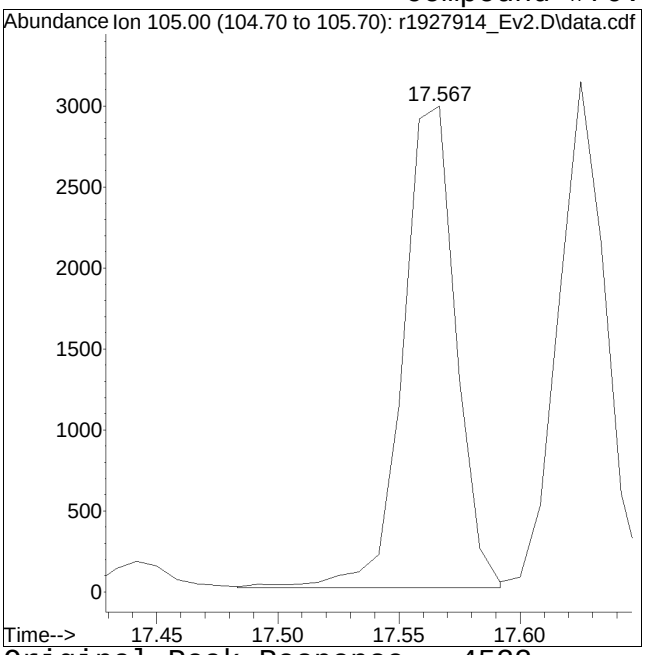
Manual Peak Response = 771 M4

M4 = Poor automated baseline construction.

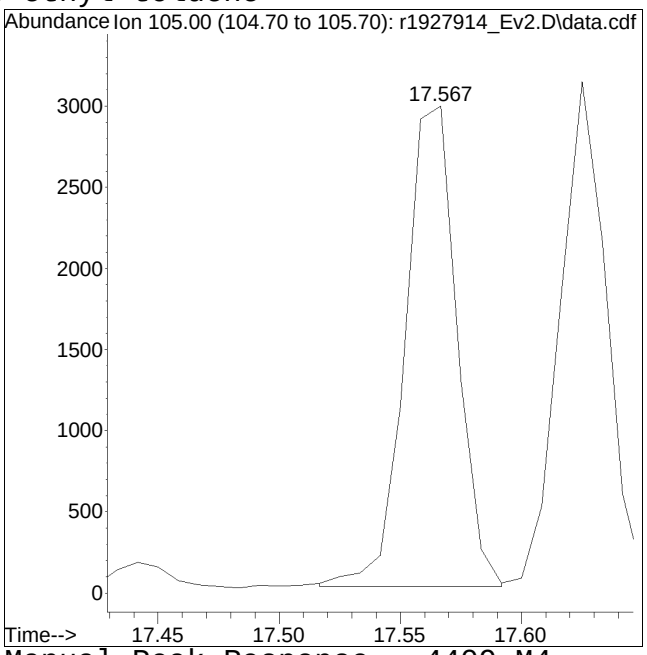
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #70: 4-ethyl toluene



Original Peak Response = 4522



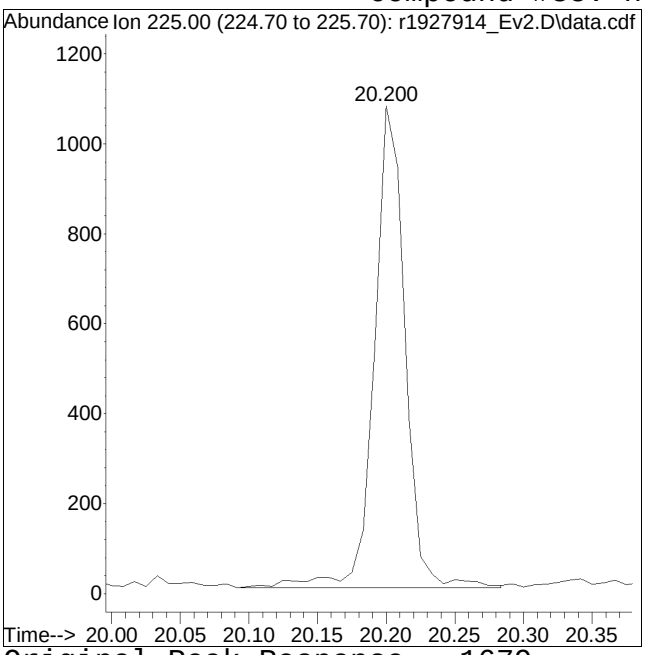
Manual Peak Response = 4409 M4

M4 = Poor automated baseline construction.

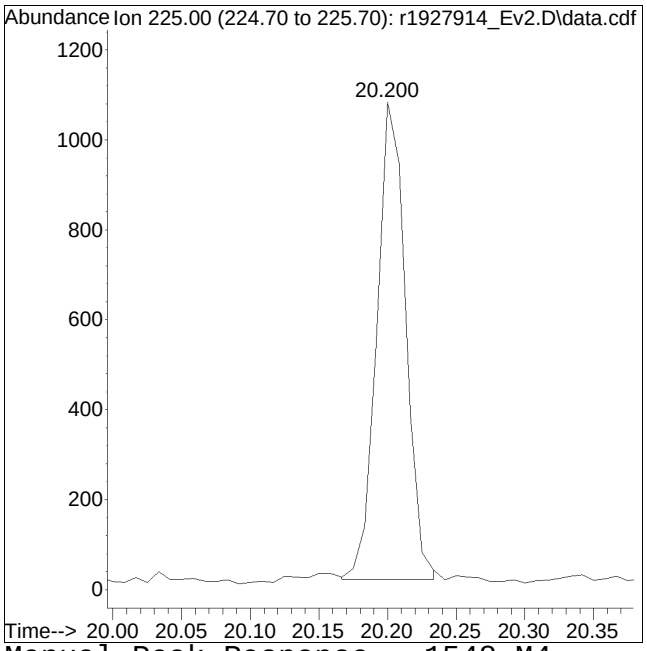
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927914_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 3 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 2/22/2024 9:41 am

Compound #85: hexachlorobutadiene



Original Peak Response = 1679



Manual Peak Response = 1548 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927915_Ev2.D
Acq On : 21 Feb 2024 9:57 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:51 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.492	49	218463	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 96.63%			
33) 1,4-difluorobenzene	10.747	114	758650	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 101.16%			
51) chlorobenzene-D5	15.533	54	105305	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 94.64%			
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	13.600	98	22581	0.264	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.64%#			
67) bromofluorobenzene	16.900	95	6663	0.118	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.18%#			
Target Compounds						Qvalue
2) propylene	3.410	41	2271M6	0.156	ppbV	
3) dichlorodifluoromethane	3.476	85	2448	0.102	ppbV	99
4) chloromethane	3.626	50	1152	0.115	ppbV	91
5) Freon-114	3.728	85	2602	0.102	ppbV	97
6) vinyl chloride	3.836	62	1437	0.098	ppbV	96
7) 1,3-butadiene	3.968	54	1061	0.105	ppbV	84
8) bromomethane	4.232	94	1018	0.103	ppbV	100
9) chloroethane	4.406	64	876	0.111	ppbV #	90
10) ethanol	4.526	31	15990	1.391	ppbV	97
11) vinyl bromide	4.767	106	1629	0.108	ppbV	99
12) acrolein	4.887	56	961	0.117	ppbV	94
13) acetone	5.033	43	13956	0.625	ppbV #	97
14) trichlorofluoromethane	5.220	101	3045	0.101	ppbV	100
15) isopropyl alcohol	5.313	45	4902	0.208	ppbV #	97
16) acrylonitrile	5.537	53	1473	0.108	ppbV	94
17) 1,1-dichloroethene	5.914	61	2755	0.098	ppbV	98
18) tertiary butyl alcohol	5.986	59	2625	0.079	ppbV #	93
19) methylene chloride	6.058	49	2496	0.150	ppbV	97
20) 3-chloropropene	6.190	41	2606	0.101	ppbV	95
21) carbon disulfide	6.358	76	7454	0.157	ppbV #	75
22) Freon 113	6.364	101	3162	0.101	ppbV	100
23) trans-1,2-dichloroethene	7.117	61	2883	0.101	ppbV	99
24) 1,1-dichloroethane	7.342	63	3694	0.101	ppbV	97

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927915_Ev2.D
Acq On : 21 Feb 2024 9:57 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:51 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.433	73	4658	0.104	ppbV		97
26) vinyl acetate	7.542	43	3119	0.099	ppbV		98
27) 2-butanone	7.808	43	3802	0.102	ppbV		97
28) cis-1,2-dichloroethene	8.308	61	2691	0.100	ppbV		96
29) Ethyl Acetate	8.600	61	685	0.098	ppbV	#	33
30) chloroform	8.650	83	2662M4	0.104	ppbV		
31) Tetrahydrofuran	9.117	42	2581	0.112	ppbV		99
32) 1,2-dichloroethane	9.492	62	2231	0.101	ppbV		94
34) hexane	8.567	57	3392	0.098	ppbV	#	53
36) 1,1,1-trichloroethane	9.787	97	2522	0.093	ppbV		99
37) benzene	10.313	78	5645	0.100	ppbV		94
38) carbon tetrachloride	10.487	117	2009	0.092	ppbV		96
39) cyclohexane	10.627	56	3472	0.098	ppbV		97
40) Dibromomethane	11.227	93	1748	0.105	ppbV	#	97
41) 1,2-dichloropropane	11.267	63	2597	0.100	ppbV		96
42) bromodichloromethane	11.493	83	2504	0.092	ppbV		97
43) 1,4-dioxane	11.560	88	1416	0.114	ppbV		97
44) trichloroethene	11.547	130	2001	0.093	ppbV		89
45) 2,2,4-trimethylpentane	11.600	57	10668	0.098	ppbV		98
46) heptane	11.920	43	3808	0.098	ppbV		100
47) cis-1,3-dichloropropene	12.567	75	2704M4	0.090	ppbV		
48) 4-methyl-2-pentanone	12.617	43	4333	0.095	ppbV		96
49) trans-1,3-dichloropropene	13.192	75	1856	0.078	ppbV		93
50) 1,1,2-trichloroethane	13.383	97	2201	0.096	ppbV		96
52) toluene	13.717	91	6926	0.110	ppbV		100
54) 2-hexanone	14.042	43	3624	0.089	ppbV		96
55) dibromochloromethane	14.192	129	2115	0.091	ppbV		97
56) 1,2-dibromoethane	14.458	107	3017	0.095	ppbV		97
57) tetrachloroethene	14.933	166	2526	0.105	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.567	131	1633	0.090	ppbV		97
59) chlorobenzene	15.575	112	5409	0.104	ppbV		98
60) ethylbenzene	15.933	91	7939	0.098	ppbV		97
61) m+p-xylene	16.100	91	12722M4	0.191	ppbV		
62) bromoform	16.158	173	1588	0.077	ppbV		97
63) styrene	16.417	104	5223	0.087	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	4051	0.097	ppbV		99
65) o-xylene	16.508	91	6526	0.098	ppbV		100
66) 1,2,3-Trichloropropane	16.617	75	3554	0.104	ppbV		98
68) isopropylbenzene	17.017	105	9368	0.103	ppbV		98
69) Bromobenzene	17.083	77	4151	0.093	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927915_Ev2.D
Acq On : 21 Feb 2024 9:57 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:51 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

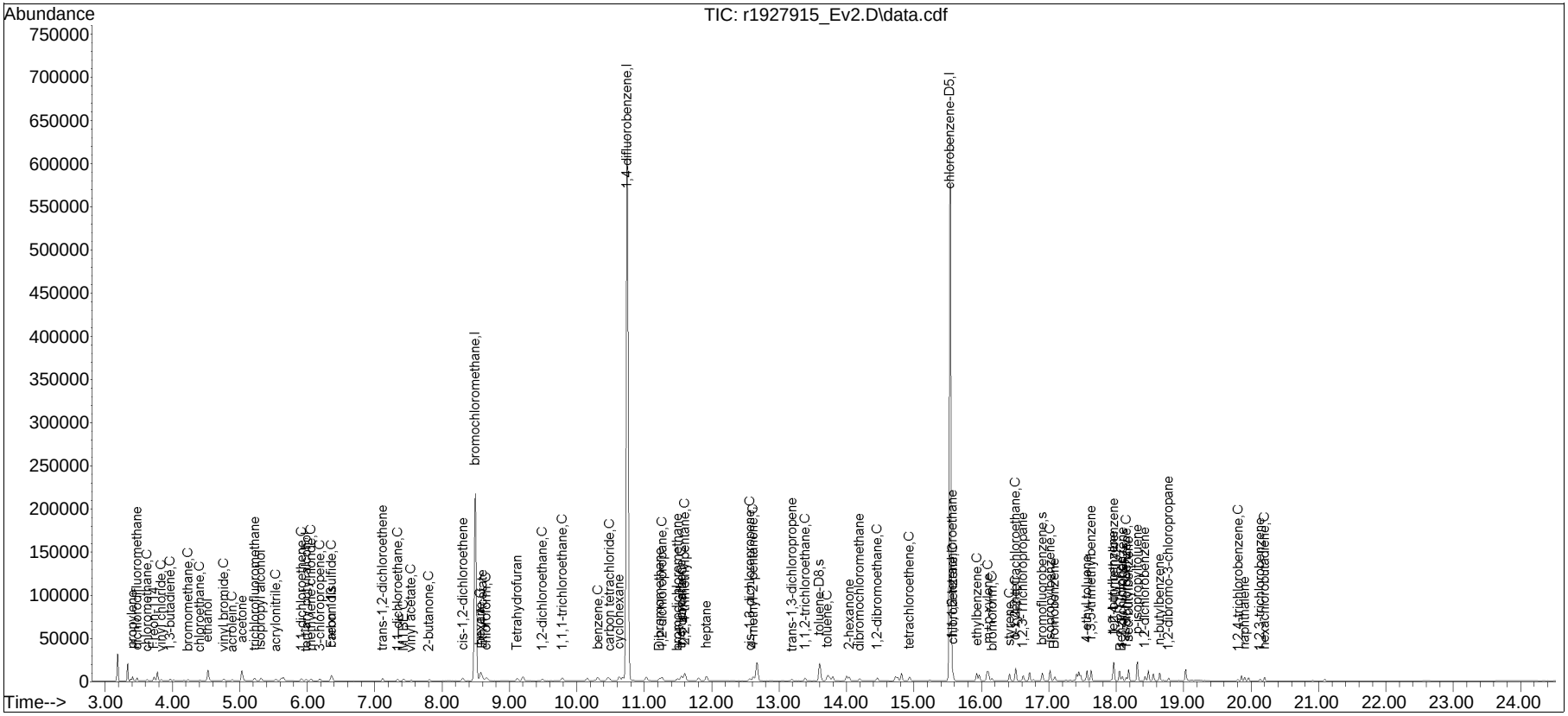
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	9018	0.094	ppbV		99
71) 1,3,5-trimethylbenzene	17.625	105	9809	0.102	ppbV		99
72) tert-butylbenzene	17.958	119	8315	0.106	ppbV		97
73) 1,2,4-trimethylbenzene	17.967	105	8289	0.097	ppbV		98
74) Benzyl Chloride	18.075	91	1814	0.040	ppbV		97
75) 1,3-dichlorobenzene	18.092	146	3415	0.077	ppbV		98
76) 1,4-dichlorobenzene	18.150	146	3012	0.068	ppbV		99
77) sec-butylbenzene	18.183	105	12193	0.104	ppbV		100
78) p-isopropyltoluene	18.317	119	9377	0.099	ppbV		99
79) 1,2-dichlorobenzene	18.425	146	3764	0.088	ppbV		98
80) n-butylbenzene	18.642	91	7330	0.089	ppbV		90
81) 1,2-dibromo-3-chloropr...	18.775	75	1119	0.057	ppbV	#	80
82) 1,2,4-trichlorobenzene	19.808	180	1740	0.047	ppbV		95
83) naphthalene	19.908	128	5556	0.061	ppbV		99
84) 1,2,3-trichlorobenzene	20.133	180	2064	0.065	ppbV		96
85) hexachlorobutadiene	20.200	225	3104	0.092	ppbV		98

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

Sub List : Default-ICV-AP2 - All compounds listed1SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927915_Ev2.D
Acq On : 21 Feb 2024 9:57 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:51 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

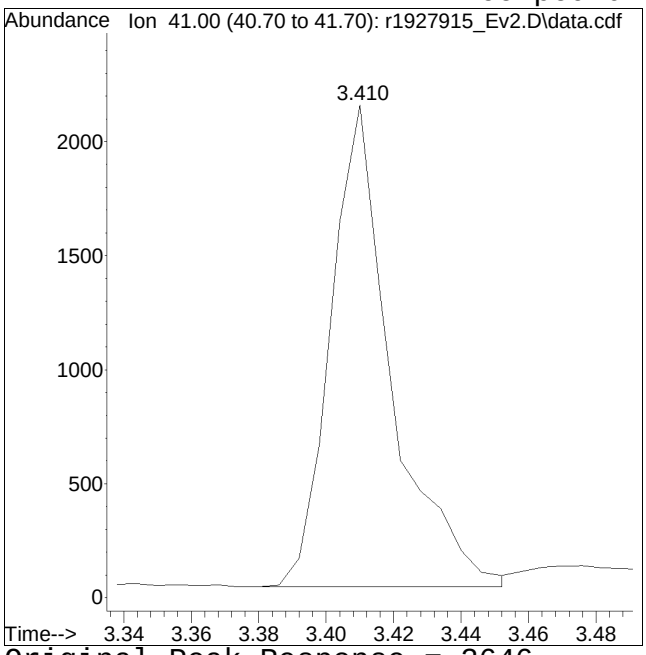


Manual Integration Report

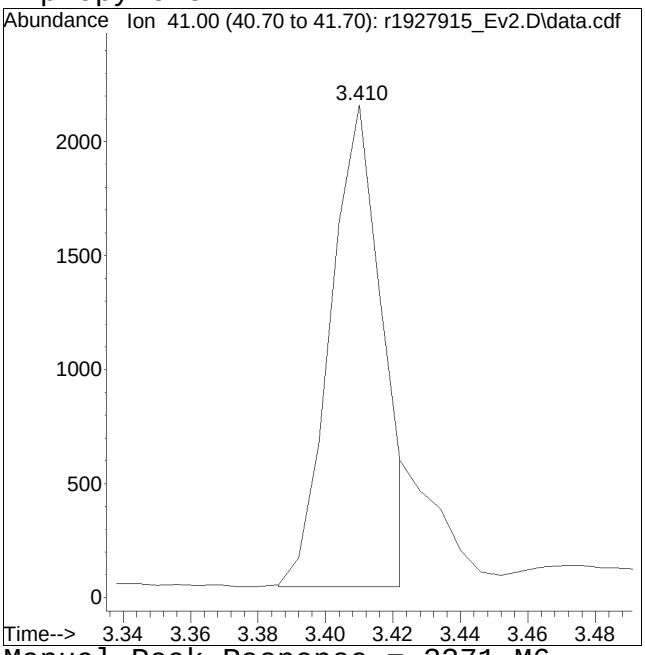
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927915_Ev2.D
Date Inj'd : 2/21/2020 0:9: 7
Sample : ITO15-SIMSTD0.1

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:41 am

Compound #2: propylene



Original Peak Response = 2646



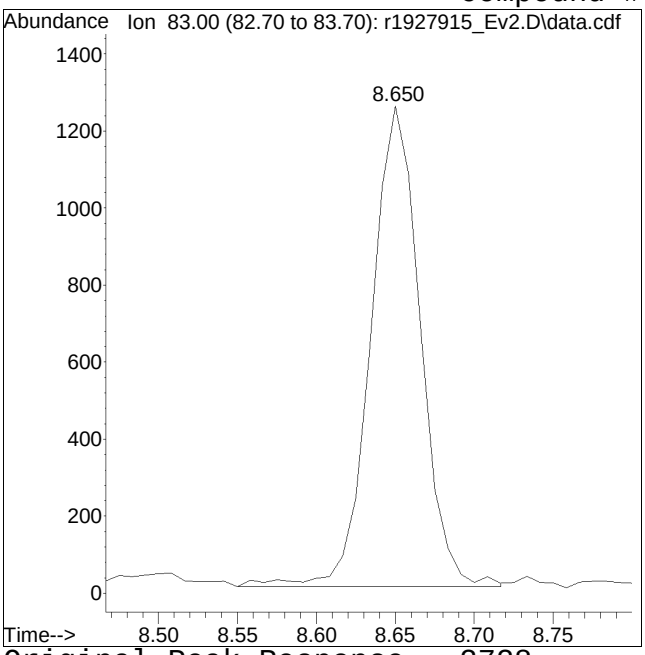
Manual Peak Response = 2271 M6

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

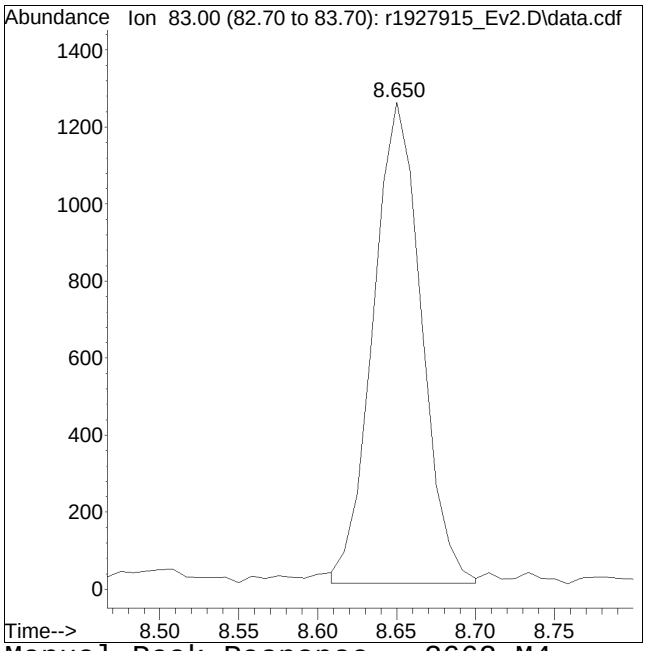
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927915_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 7 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 2/22/2024 9:41 am

Compound #30: chloroform



Original Peak Response = 2728



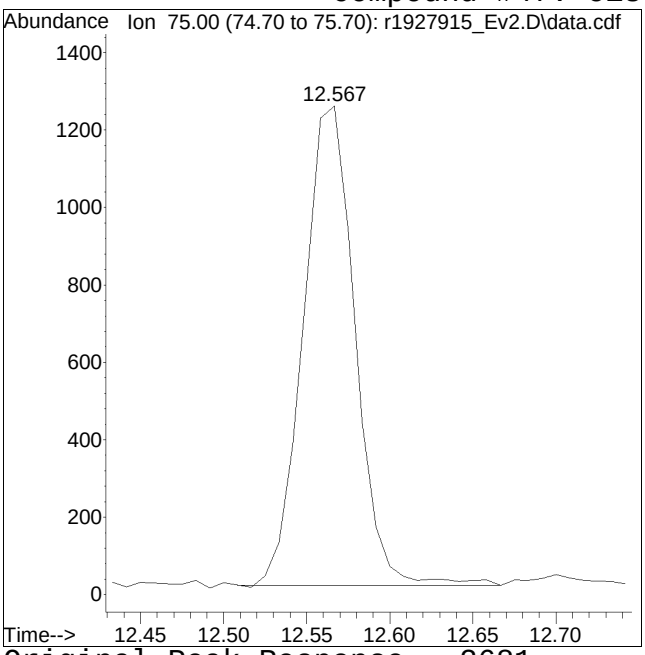
Manual Peak Response = 2662 M4

M4 = Poor automated baseline construction.

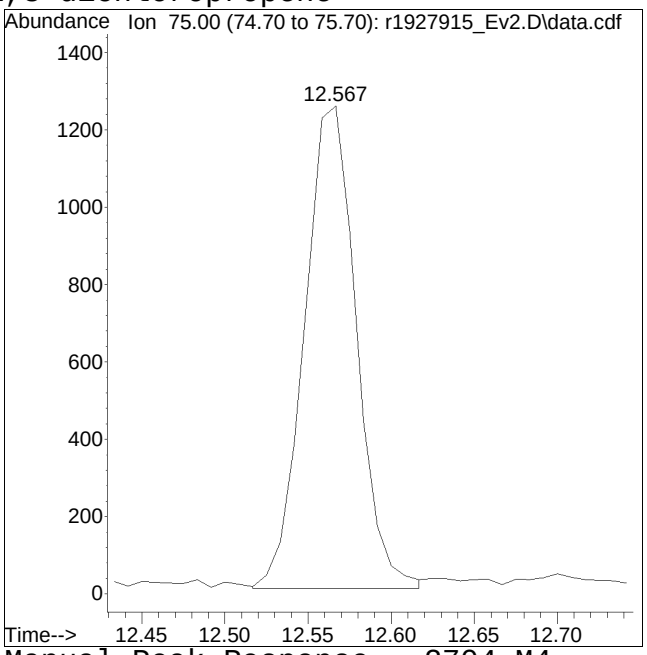
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927915_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 7 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 2/22/2024 9:41 am

Compound #47: cis-1,3-dichloropropene



Original Peak Response = 2681



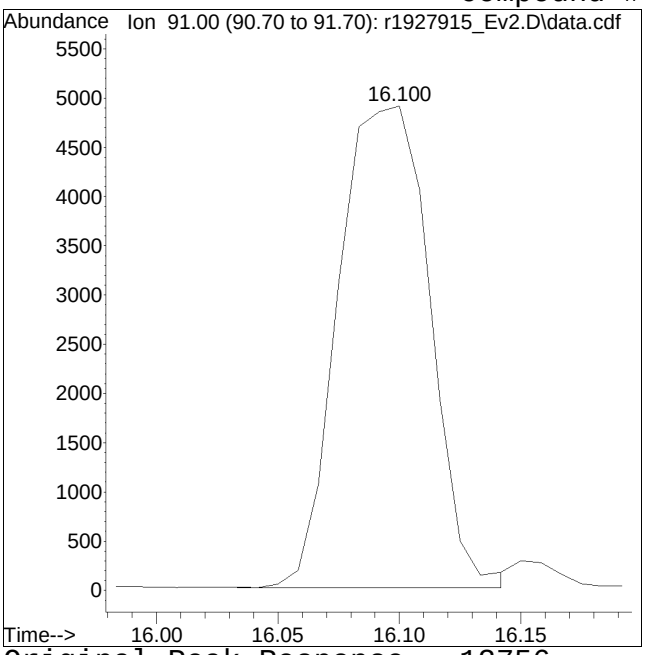
Manual Peak Response = 2704 M4

M4 = Poor automated baseline construction.

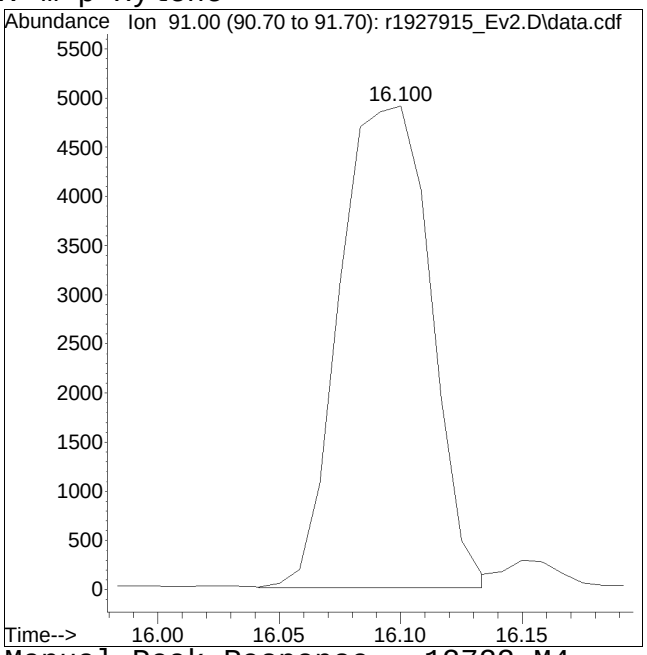
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927915_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:9: 7 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 2/22/2024 9:41 am

Compound #61: m+p-xylene



Original Peak Response = 12756



Manual Peak Response = 12722 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927916_Ev2.D
Acq On : 21 Feb 2024 10:41 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:56 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.492	49	220030	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 97.33%			
33) 1,4-difluorobenzene	10.747	114	751826	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.25%			
51) chlorobenzene-D5	15.533	54	106994	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 96.15%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.367	65	319209	9.868	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.68%			
53) toluene-D8	13.600	98	893898	10.304	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.04%			
67) bromofluorobenzene	16.900	95	602044	10.528	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 105.28%			
Target Compounds						Qvalue
2) propylene	3.410	41	4370M6	0.299	ppbV	
3) dichlorodifluoromethane	3.476	85	5697	0.237	ppbV	100
4) chloromethane	3.626	50	2506	0.248	ppbV	98
5) Freon-114	3.728	85	6108	0.237	ppbV	98
6) vinyl chloride	3.836	62	3459	0.234	ppbV	99
7) 1,3-butadiene	3.968	54	2422	0.237	ppbV	89
8) bromomethane	4.232	94	2328	0.233	ppbV	97
9) chloroethane	4.406	64	1943	0.244	ppbV	98
10) ethanol	4.526	31	22571	1.949	ppbV #	81
11) vinyl bromide	4.763	106	3750	0.246	ppbV	100
12) acrolein	4.890	56	2038	0.246	ppbV	97
13) acetone	5.027	43	29836	1.327	ppbV	97
14) trichlorofluoromethane	5.217	101	7101	0.234	ppbV	100
15) isopropyl alcohol	5.310	45	12249	0.515	ppbV	99
16) acrylonitrile	5.537	53	3298	0.240	ppbV	97
17) 1,1-dichloroethene	5.914	61	6615	0.233	ppbV	99
18) tertiary butyl alcohol	5.980	59	6564	0.196	ppbV #	94
19) methylene chloride	6.058	49	4432	0.264	ppbV	99
20) 3-chloropropene	6.190	41	6182	0.239	ppbV	100
21) carbon disulfide	6.358	76	13620	0.285	ppbV #	87
22) Freon 113	6.370	101	7541	0.240	ppbV	99
23) trans-1,2-dichloroethene	7.117	61	6849	0.237	ppbV	97
24) 1,1-dichloroethane	7.342	63	8614	0.234	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927916_Ev2.D
Acq On : 21 Feb 2024 10:41 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:56 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.425	73	10794	0.238	ppbV		99
26) vinyl acetate	7.542	43	6914	0.218	ppbV		100
27) 2-butanone	7.808	43	9457	0.252	ppbV		98
28) cis-1,2-dichloroethene	8.308	61	6278	0.232	ppbV		96
29) Ethyl Acetate	8.600	61	1584	0.225	ppbV	#	48
30) chloroform	8.650	83	6150	0.238	ppbV		97
31) Tetrahydrofuran	9.108	42	5622	0.242	ppbV		100
32) 1,2-dichloroethane	9.492	62	5795	0.261	ppbV		98
34) hexane	8.575	57	7900	0.230	ppbV	#	70
36) 1,1,1-trichloroethane	9.787	97	5867	0.219	ppbV		99
37) benzene	10.313	78	13021	0.232	ppbV		100
38) carbon tetrachloride	10.487	117	4523	0.208	ppbV		94
39) cyclohexane	10.633	56	8008	0.228	ppbV		95
40) Dibromomethane	11.227	93	3959	0.240	ppbV	#	99
41) 1,2-dichloropropane	11.267	63	5898	0.228	ppbV		97
42) bromodichloromethane	11.493	83	5964	0.220	ppbV		98
43) 1,4-dioxane	11.553	88	3240	0.263	ppbV		97
44) trichloroethene	11.547	130	4725	0.222	ppbV		96
45) 2,2,4-trimethylpentane	11.600	57	25489	0.236	ppbV		100
46) heptane	11.920	43	8862	0.231	ppbV		97
47) cis-1,3-dichloropropene	12.567	75	6254	0.211	ppbV		98
48) 4-methyl-2-pentanone	12.608	43	10158	0.225	ppbV		98
49) trans-1,3-dichloropropene	13.192	75	4561	0.194	ppbV		97
50) 1,1,2-trichloroethane	13.383	97	5037	0.222	ppbV		96
52) toluene	13.717	91	15380	0.240	ppbV		98
54) 2-hexanone	14.033	43	8582	0.207	ppbV		99
55) dibromochloromethane	14.192	129	5018	0.212	ppbV		99
56) 1,2-dibromoethane	14.458	107	7018	0.218	ppbV		99
57) tetrachloroethene	14.933	166	5926	0.243	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.567	131	3796	0.207	ppbV		98
59) chlorobenzene	15.575	112	12605	0.239	ppbV		97
60) ethylbenzene	15.933	91	18429	0.224	ppbV		98
61) m+p-xylene	16.100	91	29725	0.440	ppbV		99
62) bromoform	16.158	173	3755	0.178	ppbV		99
63) styrene	16.417	104	12466	0.204	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.508	83	9455	0.222	ppbV		99
65) o-xylene	16.508	91	15281	0.227	ppbV		99
66) 1,2,3-Trichloropropane	16.617	75	8123	0.234	ppbV		98
68) isopropylbenzene	17.017	105	21952	0.237	ppbV		99
69) Bromobenzene	17.083	77	9592	0.212	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927916_Ev2.D
Acq On : 21 Feb 2024 10:41 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:56 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default-ICV-AP2 - All compounds listed

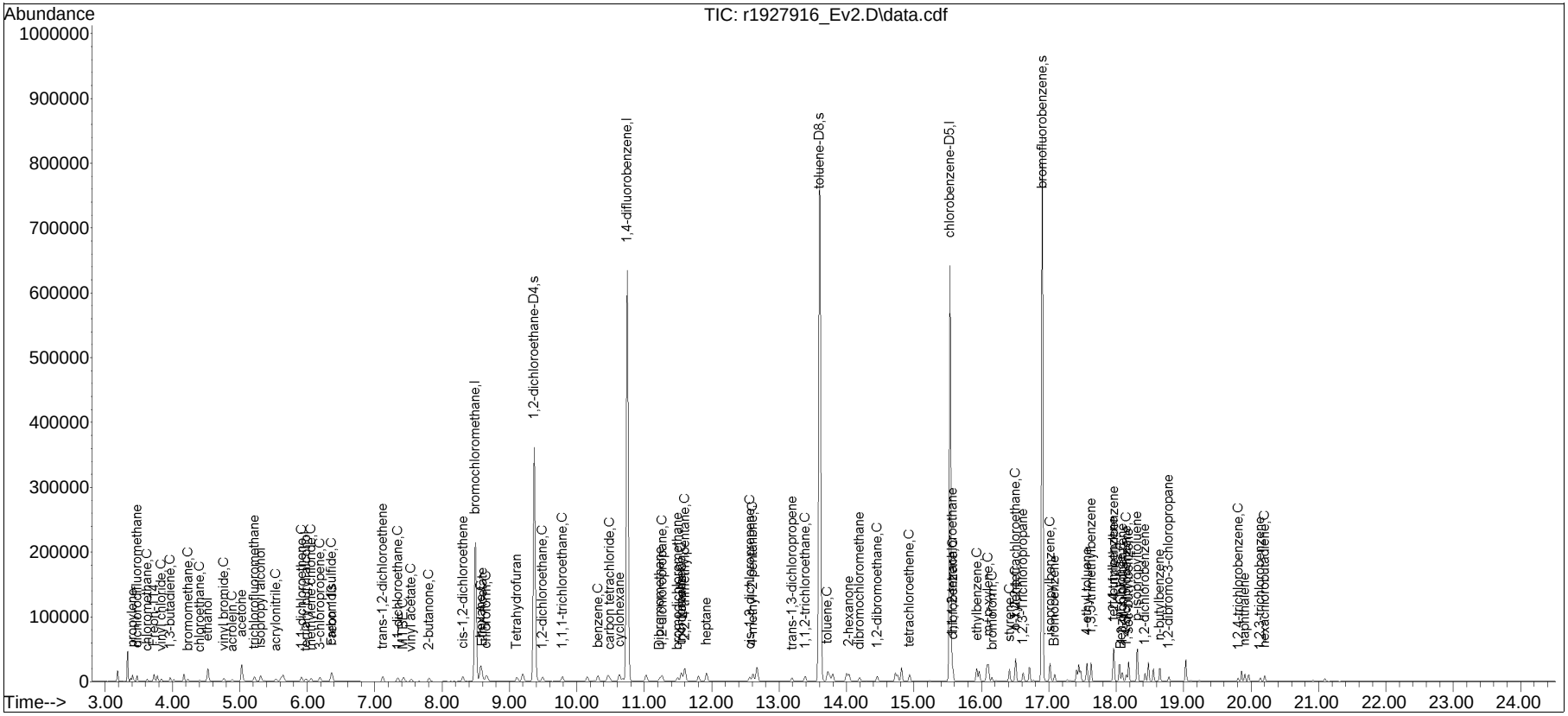
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	21613	0.221	ppbV		100
71) 1,3,5-trimethylbenzene	17.625	105	22969	0.235	ppbV		100
72) tert-butylbenzene	17.958	119	19031	0.239	ppbV		97
73) 1,2,4-trimethylbenzene	17.967	105	19257	0.221	ppbV		98
74) Benzyl Chloride	18.075	91	4789	0.104	ppbV		95
75) 1,3-dichlorobenzene	18.092	146	8739	0.194	ppbV		98
76) 1,4-dichlorobenzene	18.150	146	7936	0.176	ppbV		98
77) sec-butylbenzene	18.183	105	27947	0.235	ppbV		100
78) p-isopropyltoluene	18.308	119	21787	0.227	ppbV		95
79) 1,2-dichlorobenzene	18.425	146	9078	0.209	ppbV		98
80) n-butylbenzene	18.642	91	17979	0.215	ppbV	#	88
81) 1,2-dibromo-3-chloropr...	18.775	75	2921	0.146	ppbV	#	84
82) 1,2,4-trichlorobenzene	19.808	180	4565	0.121	ppbV		96
83) naphthalene	19.908	128	13420	0.146	ppbV		99
84) 1,2,3-trichlorobenzene	20.133	180	4817	0.150	ppbV		97
85) hexachlorobutadiene	20.200	225	6643	0.194	ppbV		98

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

Sub List : Default-ICV-AP2 - All compounds listed1SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927916_Ev2.D
Acq On : 21 Feb 2024 10:41 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:41:56 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

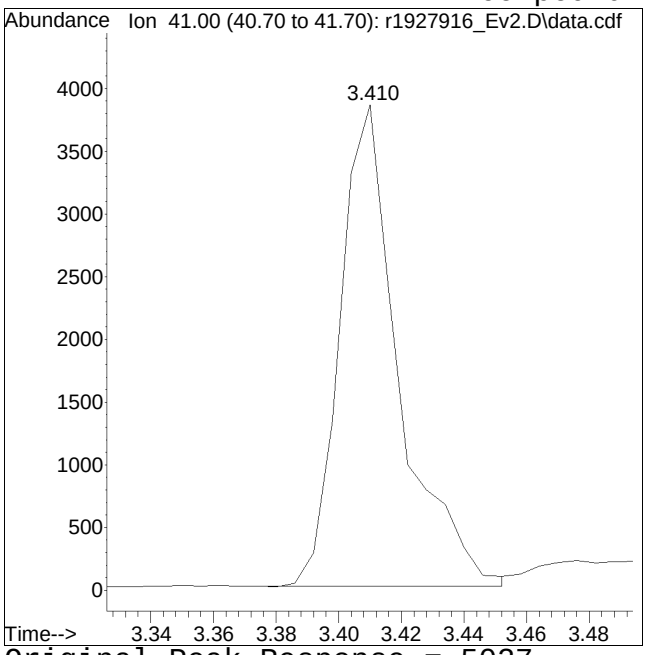


Manual Integration Report

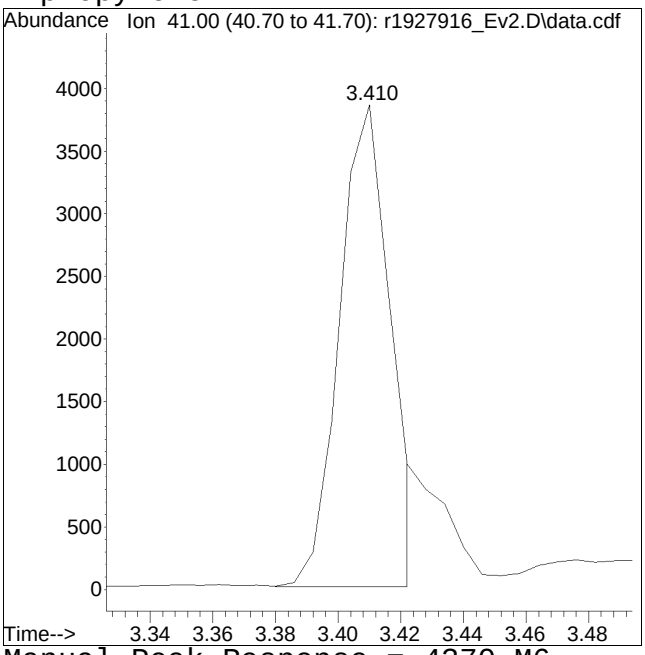
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927916_Ev2.D
Date Inj'd : 2/21/2020 0:0: 1
Sample : ITO15-SIMSTD0.2

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:41 am

Compound #2: propylene



Original Peak Response = 5027



Manual Peak Response = 4370 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927917_Ev2.D
Acq On : 21 Feb 2024 11:25 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:01 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.492	49	221720	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 98.07%			
33) 1,4-difluorobenzene	10.747	114	748557	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 99.81%			
51) chlorobenzene-D5	15.533	54	108584	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 97.58%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.367	65	321632	9.987	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.87%			
53) toluene-D8	13.600	98	890118	10.111	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.11%			
67) bromofluorobenzene	16.900	95	565631	9.746	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.46%			
Target Compounds						Qvalue
2) propylene	3.410	41	8852M6	0.600	ppbV	
3) dichlorodifluoromethane	3.476	85	13084	0.539	ppbV	98
4) chloromethane	3.626	50	5645	0.555	ppbV	100
5) Freon-114	3.728	85	14250	0.548	ppbV	100
6) vinyl chloride	3.836	62	8046	0.540	ppbV	100
7) 1,3-butadiene	3.974	54	5608	0.545	ppbV	97
8) bromomethane	4.232	94	5480	0.544	ppbV	98
9) chloroethane	4.406	64	4401	0.548	ppbV	100
10) ethanol	4.526	31	43301	3.711	ppbV	99
11) vinyl bromide	4.767	106	8472	0.552	ppbV	97
12) acrolein	4.890	56	4691	0.561	ppbV	99
13) acetone	5.027	43	65379	2.887	ppbV	99
14) trichlorofluoromethane	5.220	101	16388	0.536	ppbV	98
15) isopropyl alcohol	5.307	45	27917	1.166	ppbV	100
16) acrylonitrile	5.537	53	7560	0.547	ppbV	99
17) 1,1-dichloroethene	5.920	61	15259	0.533	ppbV	99
18) tertiary butyl alcohol	5.974	59	14972	0.444	ppbV	97
19) methylene chloride	6.058	49	9619	0.569	ppbV	99
20) 3-chloropropene	6.190	41	14039	0.538	ppbV	99
21) carbon disulfide	6.364	76	28388	0.590	ppbV #	94
22) Freon 113	6.370	101	17248	0.544	ppbV	99
23) trans-1,2-dichloroethene	7.125	61	15817	0.544	ppbV	98
24) 1,1-dichloroethane	7.342	63	20022	0.541	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927917_Ev2.D
Acq On : 21 Feb 2024 11:25 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:01 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.425	73	24857	0.545	ppbV		99
26) vinyl acetate	7.542	43	16498	0.515	ppbV		99
27) 2-butanone	7.800	43	21243	0.562	ppbV		100
28) cis-1,2-dichloroethene	8.308	61	14508	0.532	ppbV		97
29) Ethyl Acetate	8.600	61	3643	0.513	ppbV	#	35
30) chloroform	8.658	83	14221	0.545	ppbV		99
31) Tetrahydrofuran	9.100	42	12802	0.546	ppbV		95
32) 1,2-dichloroethane	9.492	62	12547	0.561	ppbV		99
34) hexane	8.575	57	18302	0.535	ppbV		76
36) 1,1,1-trichloroethane	9.787	97	13744	0.516	ppbV		100
37) benzene	10.313	78	29598	0.530	ppbV		99
38) carbon tetrachloride	10.487	117	10533	0.486	ppbV		96
39) cyclohexane	10.633	56	18282	0.524	ppbV		99
40) Dibromomethane	11.233	93	8997	0.548	ppbV	#	100
41) 1,2-dichloropropane	11.267	63	13610	0.529	ppbV		98
42) bromodichloromethane	11.493	83	13825	0.513	ppbV		100
43) 1,4-dioxane	11.547	88	6627	0.541	ppbV		100
44) trichloroethene	11.547	130	11242	0.531	ppbV		98
45) 2,2,4-trimethylpentane	11.600	57	58295	0.543	ppbV		99
46) heptane	11.927	43	20384	0.533	ppbV		99
47) cis-1,3-dichloropropene	12.567	75	14663	0.497	ppbV		99
48) 4-methyl-2-pentanone	12.608	43	22939M4	0.510	ppbV		
49) trans-1,3-dichloropropene	13.192	75	10870	0.465	ppbV		98
50) 1,1,2-trichloroethane	13.383	97	11865	0.524	ppbV		96
52) toluene	13.717	91	35593	0.546	ppbV		99
54) 2-hexanone	14.033	43	21005	0.499	ppbV		100
55) dibromochloromethane	14.192	129	11906	0.497	ppbV		98
56) 1,2-dibromoethane	14.458	107	16749	0.512	ppbV		98
57) tetrachloroethene	14.933	166	13523	0.546	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.567	131	9121	0.490	ppbV		99
59) chlorobenzene	15.575	112	29118	0.544	ppbV		98
60) ethylbenzene	15.933	91	44394	0.531	ppbV		99
61) m+p-xylene	16.100	91	71267	1.040	ppbV		98
62) bromoform	16.158	173	9584	0.448	ppbV		99
63) styrene	16.417	104	30367	0.491	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	22610	0.523	ppbV		99
65) o-xylene	16.508	91	36611	0.535	ppbV		99
66) 1,2,3-Trichloropropane	16.617	75	19104	0.542	ppbV		100
68) isopropylbenzene	17.017	105	51501	0.547	ppbV		99
69) Bromobenzene	17.083	77	24123	0.526	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927917_Ev2.D
Acq On : 21 Feb 2024 11:25 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:01 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

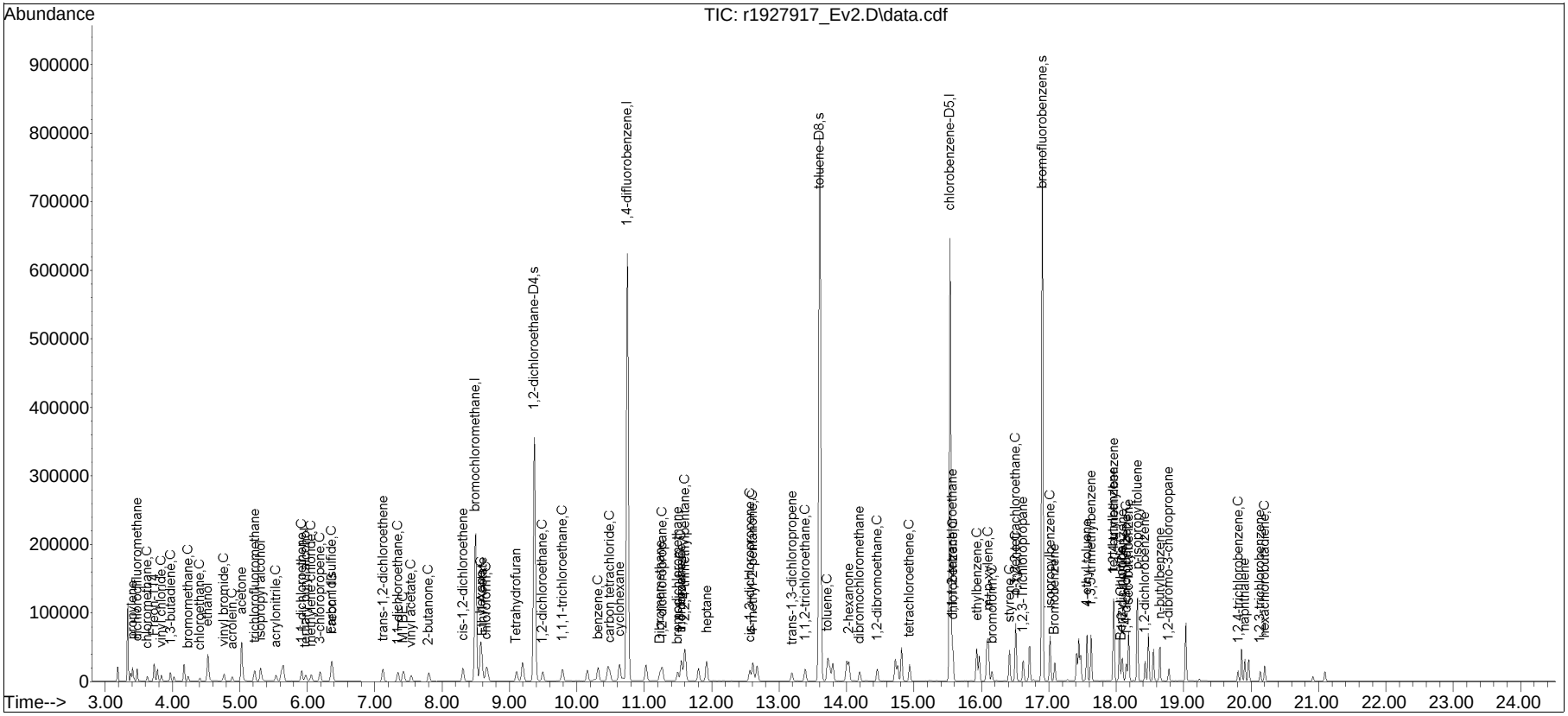
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	52030	0.523	ppbV		100
71) 1,3,5-trimethylbenzene	17.625	105	52046	0.524	ppbV		99
72) tert-butylbenzene	17.958	119	44704	0.552	ppbV		97
73) 1,2,4-trimethylbenzene	17.967	105	46000	0.520	ppbV		98
74) Benzyl Chloride	18.075	91	13555	0.291	ppbV		96
75) 1,3-dichlorobenzene	18.092	146	21213	0.464	ppbV		98
76) 1,4-dichlorobenzene	18.150	146	19031	0.415	ppbV		98
77) sec-butylbenzene	18.183	105	65947	0.546	ppbV		100
78) p-isopropyltoluene	18.317	119	51985	0.533	ppbV		99
79) 1,2-dichlorobenzene	18.425	146	22080	0.501	ppbV		99
80) n-butylbenzene	18.650	91	43760	0.515	ppbV		100
81) 1,2-dibromo-3-chloropr...	18.775	75	8200	0.402	ppbV	#	89
82) 1,2,4-trichlorobenzene	19.808	180	13027	0.340	ppbV		98
83) naphthalene	19.908	128	37592	0.403	ppbV		100
84) 1,2,3-trichlorobenzene	20.133	180	13341	0.410	ppbV		99
85) hexachlorobutadiene	20.200	225	16681	0.479	ppbV		98

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927917_Ev2.D
Acq On : 21 Feb 2024 11:25 PM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:01 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

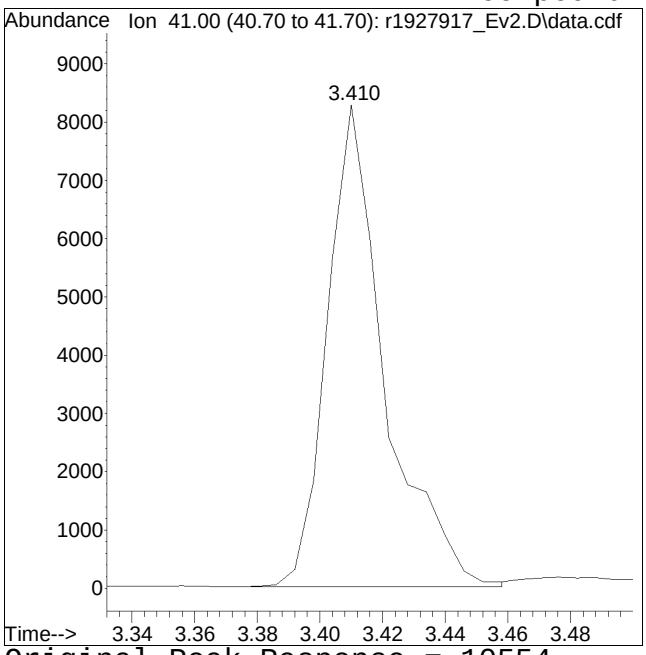


Manual Integration Report

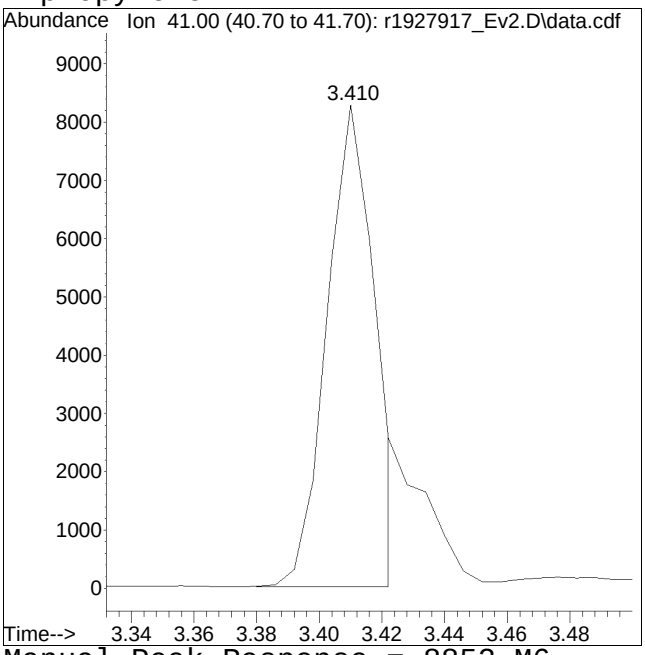
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927917_Ev2.D
Date Inj'd : 2/21/2020 0:1: 5
Sample : ITO15-SIMSTD0.5

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:42 am

Compound #2: propylene



Original Peak Response = 10554



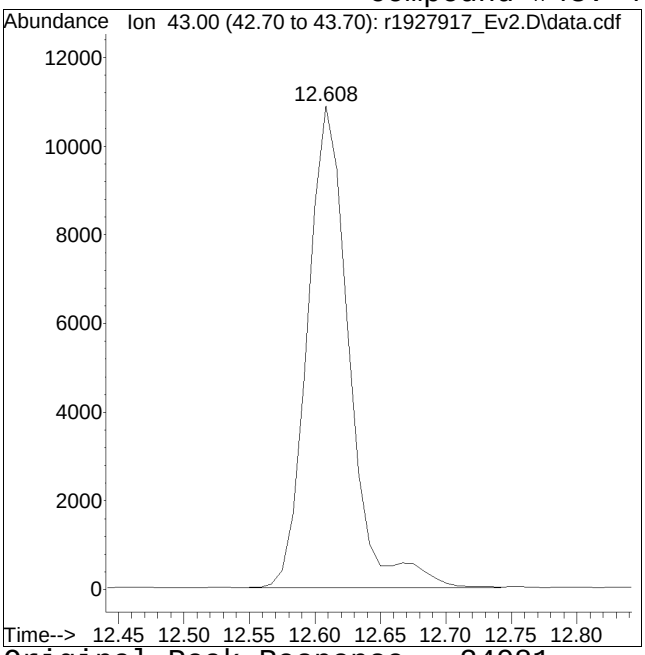
Manual Peak Response = 8852 M6

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

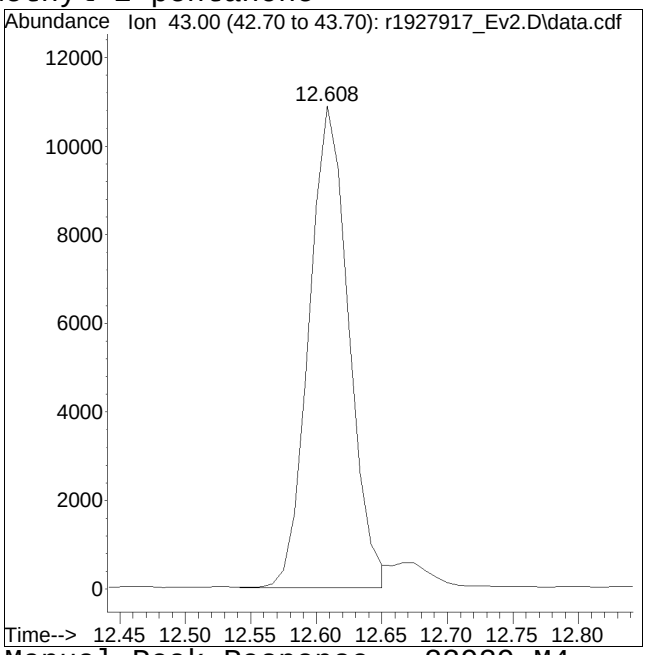
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927917_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/21/2020 0:1: 5 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 2/22/2024 9:42 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 24081



Manual Peak Response = 22939 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927918_Ev2.D
Acq On : 22 Feb 2024 12:09 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:06 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.500	49	222679	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 98.50%			
33) 1,4-difluorobenzene	10.753	114	751327	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.18%			
51) chlorobenzene-D5	15.533	54	109547	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 98.45%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.367	65	321035	9.931	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.31%			
53) toluene-D8	13.600	98	904525	10.184	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%			
67) bromofluorobenzene	16.900	95	594830	10.159	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.59%			
Target Compounds						Qvalue
2) propylene	3.410	41	16313M6	1.101	ppbV	
3) dichlorodifluoromethane	3.482	85	25516	1.047	ppbV	100
4) chloromethane	3.626	50	10893	1.066	ppbV	99
5) Freon-114	3.728	85	27700	1.061	ppbV	99
6) vinyl chloride	3.842	62	15632	1.045	ppbV	99
7) 1,3-butadiene	3.974	54	11016	1.067	ppbV	99
8) bromomethane	4.232	94	10625	1.051	ppbV	100
9) chloroethane	4.406	64	8466	1.050	ppbV	99
10) ethanol	4.526	31	74324	6.342	ppbV	99
11) vinyl bromide	4.767	106	16329	1.059	ppbV	99
12) acrolein	4.890	56	8974	1.069	ppbV	99
13) acetone	5.023	43	124810	5.487	ppbV	99
14) trichlorofluoromethane	5.220	101	31938	1.040	ppbV	98
15) isopropyl alcohol	5.303	45	59222	2.463	ppbV	99
16) acrylonitrile	5.537	53	14784	1.065	ppbV	99
17) 1,1-dichloroethene	5.920	61	29843	1.038	ppbV	100
18) tertiary butyl alcohol	5.968	59	31396	0.926	ppbV	97
19) methylene chloride	6.058	49	18267	1.076	ppbV	100
20) 3-chloropropene	6.190	41	27376	1.045	ppbV	100
21) carbon disulfide	6.364	76	52827	1.093	ppbV	97
22) Freon 113	6.370	101	33351	1.047	ppbV	100
23) trans-1,2-dichloroethene	7.125	61	30870	1.056	ppbV	99
24) 1,1-dichloroethane	7.350	63	38689	1.040	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927918_Ev2.D
Acq On : 22 Feb 2024 12:09 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:06 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.425	73	47983	1.048	ppbV		99
26) vinyl acetate	7.542	43	33065	1.028	ppbV		99
27) 2-butanone	7.800	43	40775	1.074	ppbV		99
28) cis-1,2-dichloroethene	8.308	61	28585	1.043	ppbV		99
29) Ethyl Acetate	8.592	61	7162	1.005	ppbV		71
30) chloroform	8.658	83	27312	1.043	ppbV		99
31) Tetrahydrofuran	9.100	42	24825	1.054	ppbV		98
32) 1,2-dichloroethane	9.492	62	24083	1.071	ppbV		100
34) hexane	8.575	57	35985	1.048	ppbV		83
36) 1,1,1-trichloroethane	9.787	97	27106	1.013	ppbV		99
37) benzene	10.313	78	57166	1.021	ppbV		100
38) carbon tetrachloride	10.487	117	20753	0.954	ppbV		98
39) cyclohexane	10.633	56	35932	1.025	ppbV		99
40) Dibromomethane	11.233	93	17400	1.055	ppbV	#	100
41) 1,2-dichloropropane	11.267	63	26513	1.027	ppbV		99
42) bromodichloromethane	11.493	83	27421	1.014	ppbV		98
43) 1,4-dioxane	11.547	88	13074	1.062	ppbV		99
44) trichloroethene	11.553	130	21703	1.022	ppbV		100
45) 2,2,4-trimethylpentane	11.600	57	114953	1.067	ppbV		100
46) heptane	11.927	43	39649	1.034	ppbV		99
47) cis-1,3-dichloropropene	12.567	75	29167	0.985	ppbV		99
48) 4-methyl-2-pentanone	12.608	43	44988M6	0.997	ppbV		
49) trans-1,3-dichloropropene	13.192	75	21956	0.936	ppbV		99
50) 1,1,2-trichloroethane	13.383	97	23227	1.022	ppbV		98
52) toluene	13.725	91	68769	1.047	ppbV		99
54) 2-hexanone	14.033	43	41675	0.982	ppbV		99
55) dibromochloromethane	14.192	129	23731	0.981	ppbV		99
56) 1,2-dibromoethane	14.458	107	33213	1.006	ppbV		99
57) tetrachloroethene	14.933	166	26101	1.045	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.567	131	18590	0.989	ppbV		98
59) chlorobenzene	15.575	112	56658	1.050	ppbV		98
60) ethylbenzene	15.933	91	87870	1.041	ppbV		99
61) m+p-xylene	16.100	91	143248	2.073	ppbV		100
62) bromoform	16.158	173	19922	0.924	ppbV		99
63) styrene	16.417	104	62489	1.001	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	44642	1.023	ppbV		99
65) o-xylene	16.508	91	72113	1.045	ppbV		98
66) 1,2,3-Trichloropropane	16.617	75	37224	1.048	ppbV		100
68) isopropylbenzene	17.017	105	100697	1.060	ppbV		100
69) Bromobenzene	17.083	77	48379	1.045	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927918_Ev2.D
Acq On : 22 Feb 2024 12:09 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:06 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

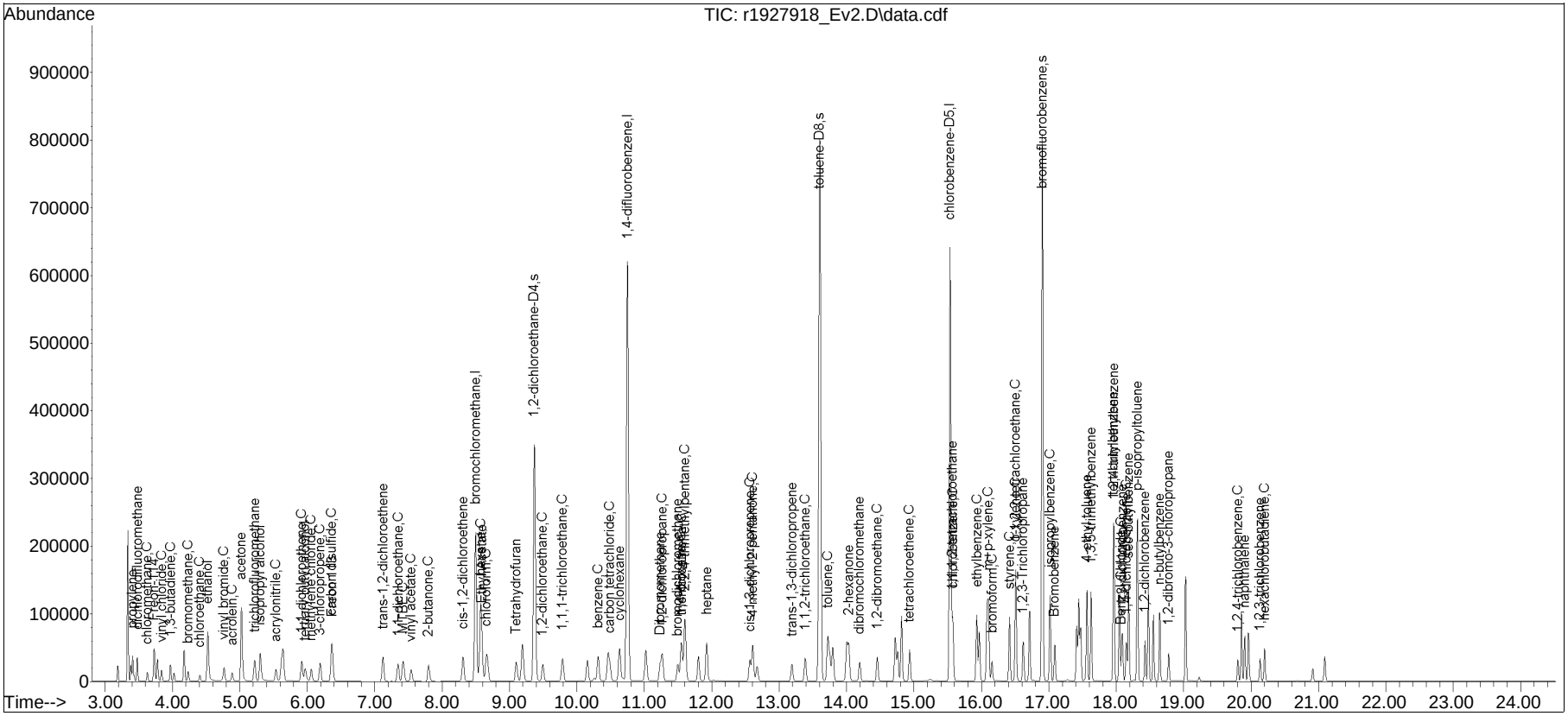
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.567	105	101872	1.015	ppbV	100
71) 1,3,5-trimethylbenzene	17.625	105	105975	1.057	ppbV	99
72) tert-butylbenzene	17.958	119	86723	1.062	ppbV	98
73) 1,2,4-trimethylbenzene	17.967	105	90323	1.012	ppbV	98
74) Benzyl Chloride	18.075	91	32364	0.688	ppbV	95
75) 1,3-dichlorobenzene	18.092	146	43505	0.943	ppbV	98
76) 1,4-dichlorobenzene	18.150	146	42972	0.929	ppbV	98
77) sec-butylbenzene	18.183	105	128738	1.057	ppbV	99
78) p-isopropyltoluene	18.317	119	103049	1.047	ppbV	100
79) 1,2-dichlorobenzene	18.425	146	43527	0.979	ppbV	98
80) n-butylbenzene	18.642	91	87997	1.027	ppbV	90
81) 1,2-dibromo-3-chloropr...	18.775	75	17985	0.875	ppbV	94
82) 1,2,4-trichlorobenzene	19.800	180	29071	0.752	ppbV	95
83) naphthalene	19.908	128	81929	0.871	ppbV	100
84) 1,2,3-trichlorobenzene	20.133	180	28776	0.876	ppbV	99
85) hexachlorobutadiene	20.200	225	33740	0.960	ppbV	100

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927918_Ev2.D
Acq On : 22 Feb 2024 12:09 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

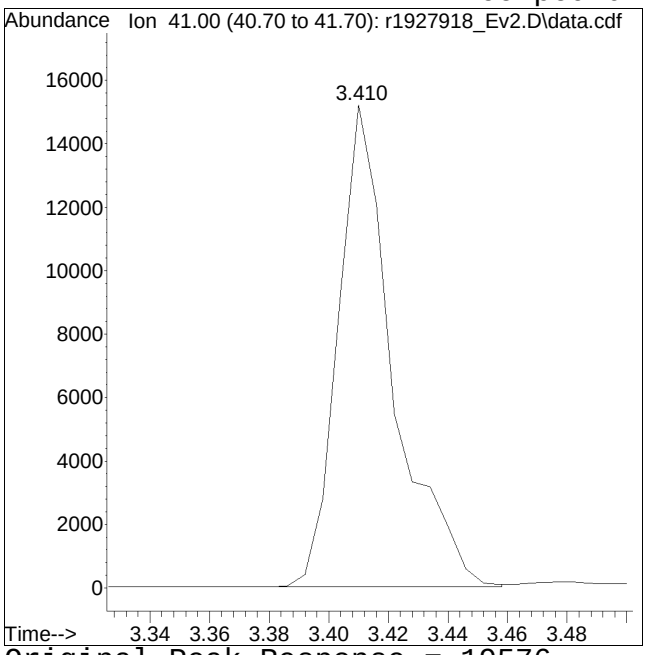
Quant Time: Feb 22 09:42:06 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration



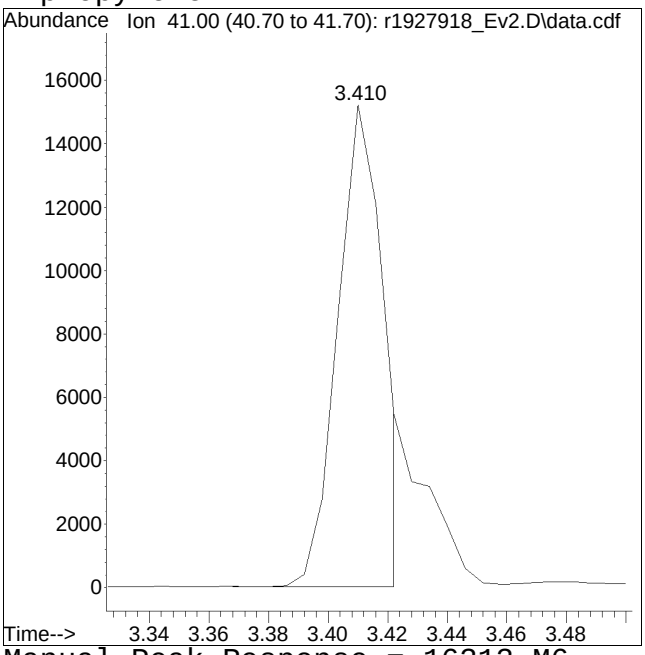
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927918_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 2/22/2024 9:42 am

Compound #2: propylene



Original Peak Response = 19576



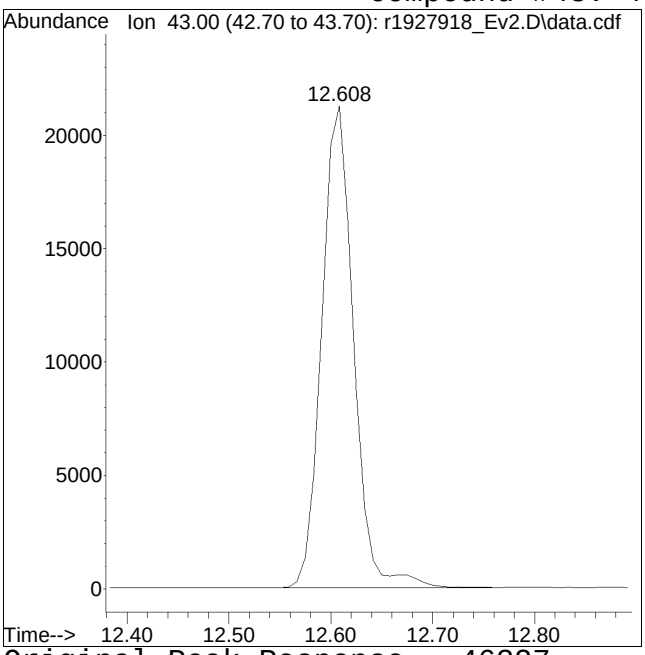
Manual Peak Response = 16313 M6

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

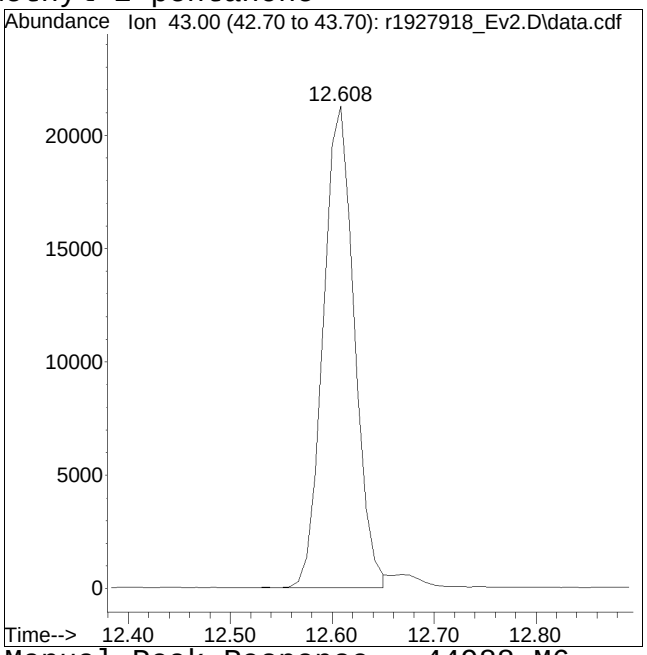
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927918_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 9 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 2/22/2024 9:42 am

Compound #48: 4-methyl-2-pentanone



Original Peak Response = 46327



Manual Peak Response = 44988 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927919_Ev2.D
Acq On : 22 Feb 2024 12:52 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:02:38 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:45:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.500	49	226076	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 100.00%			
33) 1,4-difluorobenzene	10.753	114	749957	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.00%			
51) chlorobenzene-D5	15.533	54	111274	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.375	65	322667	10.184	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.84%			
53) toluene-D8	13.608	98	902197	9.869	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.69%			
67) bromofluorobenzene	16.908	95	594732M3	9.972	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.72%			
Target Compounds						Qvalue
2) propylene	3.410	41	75205M6	4.096	ppbV	
3) dichlorodifluoromethane	3.482	85	123691	4.915	ppbV	100
4) chloromethane	3.626	50	51867	4.752	ppbV	100
5) Freon-114	3.728	85	132561	4.876	ppbV	100
6) vinyl chloride	3.842	62	75960	4.794	ppbV	100
7) 1,3-butadiene	3.974	54	52420	4.686	ppbV	100
8) bromomethane	4.232	94	51341	4.815	ppbV	100
9) chloroethane	4.406	64	40938	4.787	ppbV	100
10) ethanol	4.526	31	297457	22.983	ppbV	100
11) vinyl bromide	4.767	106	78241	4.751	ppbV	100
12) acrolein	4.887	56	42626	4.524	ppbV	100
13) acetone	5.020	43	577363	23.398	ppbV	100
14) trichlorofluoromethane	5.220	101	155916	4.913	ppbV	100
15) isopropyl alcohol	5.293	45	305193	12.179	ppbV	100
16) acrylonitrile	5.537	53	70459	4.771	ppbV	100
17) 1,1-dichloroethene	5.920	61	145910	4.861	ppbV	100
18) tertiary butyl alcohol	5.956	59	171600	4.952	ppbV	100
19) methylene chloride	6.058	49	86140	4.920	ppbV	100
20) 3-chloropropene	6.190	41	132946	4.746	ppbV	100
21) carbon disulfide	6.364	76	245439	4.548	ppbV	100
22) Freon 113	6.370	101	161754	4.835	ppbV	100
23) trans-1,2-dichloroethene	7.125	61	148366	4.837	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927919_Ev2.D
Acq On : 22 Feb 2024 12:52 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:02:38 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:45:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
24) 1,1-dichloroethane	7.350	63	188845	4.875	ppbV		100
25) MTBE	7.417	73	232517	4.749	ppbV		100
26) vinyl acetate	7.542	43	163292	4.754	ppbV		100
27) 2-butanone	7.792	43	192804	4.685	ppbV		100
28) cis-1,2-dichloroethene	8.308	61	139085	4.883	ppbV		100
29) Ethyl Acetate	8.583	61	36189	4.890	ppbV		100
30) chloroform	8.658	83	132969	4.785	ppbV		100
31) Tetrahydrofuran	9.092	42	119550	4.737	ppbV		100
32) 1,2-dichloroethane	9.492	62	114125	4.699	ppbV		100
34) hexane	8.575	57	171350	4.961	ppbV		100
36) 1,1,1-trichloroethane	9.787	97	133552	5.099	ppbV		100
37) benzene	10.313	78	279522	4.903	ppbV		100
38) carbon tetrachloride	10.493	117	108520	5.111	ppbV		100
39) cyclohexane	10.633	56	174889	4.945	ppbV		100
40) Dibromomethane	11.233	93	82312	4.776	ppbV	#	100
41) 1,2-dichloropropane	11.267	63	128802	4.833	ppbV		100
42) bromodichloromethane	11.500	83	134974	4.966	ppbV		100
43) 1,4-dioxane	11.533	88	61413	4.671	ppbV		100
44) trichloroethene	11.553	130	105998	4.936	ppbV		100
45) 2,2,4-trimethylpentane	11.600	57	537680	4.889	ppbV		100
46) heptane	11.927	43	191423	4.847	ppbV		100
47) cis-1,3-dichloropropene	12.567	75	147858	5.029	ppbV		100
48) 4-methyl-2-pentanone	12.600	43	225246	4.943	ppbV		100
49) trans-1,3-dichloropropene	13.192	75	117105	5.341	ppbV		100
50) 1,1,2-trichloroethane	13.392	97	113384	5.079	ppbV		100
52) toluene	13.725	91	333738	4.783	ppbV		100
54) 2-hexanone	14.025	43	215551	4.918	ppbV		100
55) dibromochloromethane	14.200	129	122842	4.940	ppbV		100
56) 1,2-dibromoethane	14.458	107	167650	4.967	ppbV		100
57) tetrachloroethene	14.933	166	126830	4.630	ppbV		100
58) 1,1,1,2-tetrachloroethane	15.567	131	95439	4.954	ppbV		100
59) chlorobenzene	15.575	112	274140	4.679	ppbV		100
60) ethylbenzene	15.933	91	428760	4.933	ppbV		100
61) m+p-xylene	16.100	91	698416M4	9.945	ppbV		
62) bromoform	16.158	173	109616M4	5.294	ppbV		
63) styrene	16.417	104	317088	5.147	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.508	83	221716	4.921	ppbV		100
65) o-xylene	16.508	91	350468	4.904	ppbV		100
66) 1,2,3-Trichloropropane	16.625	75	180394	4.707	ppbV		100
68) isopropylbenzene	17.017	105	482478	4.778	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927919_Ev2.D
Acq On : 22 Feb 2024 12:52 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:02:38 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:45:39 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

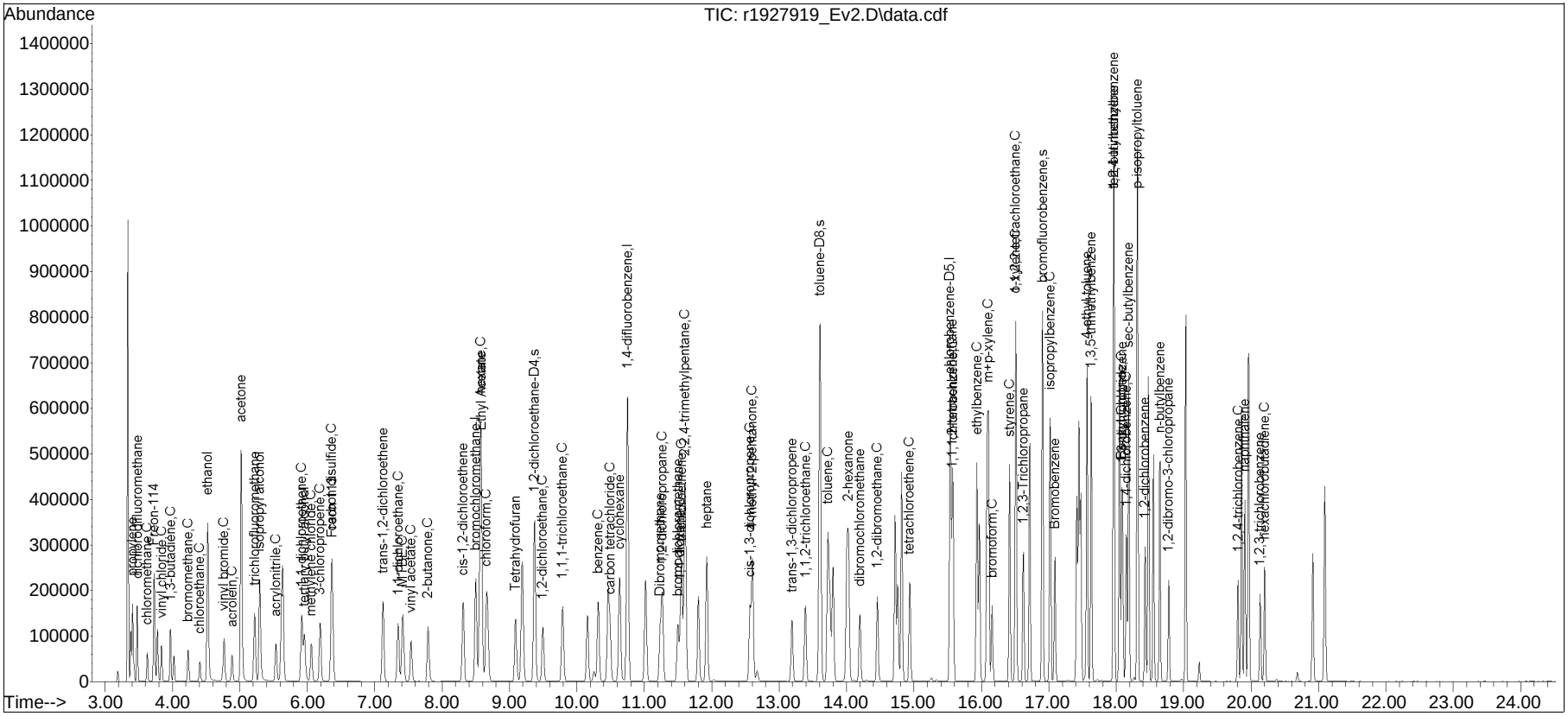
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
69) Bromobenzene	17.092	77	235146	5.048	ppbV	100
70) 4-ethyl toluene	17.567	105	509528	4.998	ppbV	100
71) 1,3,5-trimethylbenzene	17.625	105	509178	4.925	ppbV	100
72) tert-butylbenzene	17.967	119	414717	4.830	ppbV	100
73) 1,2,4-trimethylbenzene	17.967	105	453323	5.001	ppbV	100
74) Benzyl Chloride	18.083	91	238869	5.889	ppbV	100
75) 1,3-dichlorobenzene	18.092	146	234332	5.436	ppbV	100
76) 1,4-dichlorobenzene	18.150	146	234845M3	5.816	ppbV	
77) sec-butylbenzene	18.183	105	618743	4.813	ppbV	100
78) p-isopropyltoluene	18.317	119	499636	4.933	ppbV	100
79) 1,2-dichlorobenzene	18.425	146	225838	5.172	ppbV	100
80) n-butylbenzene	18.650	91	435033	5.005	ppbV	100
81) 1,2-dibromo-3-chloropr...	18.775	75	104390	6.023	ppbV	100
82) 1,2,4-trichlorobenzene	19.808	180	196413	6.485	ppbV	100
83) naphthalene	19.908	128	477884	5.959	ppbV	100
84) 1,2,3-trichlorobenzene	20.133	180	166906	5.736	ppbV	100
85) hexachlorobutadiene	20.200	225	178490	5.292	ppbV	100

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927919_Ev2.D
Acq On : 22 Feb 2024 12:52 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:02:38 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:45:39 2024
Response via : Initial Calibration

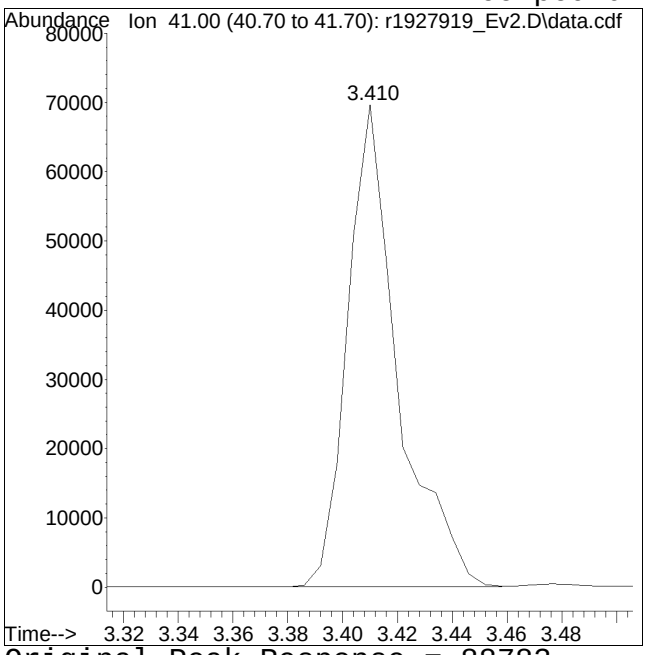


Manual Integration Report

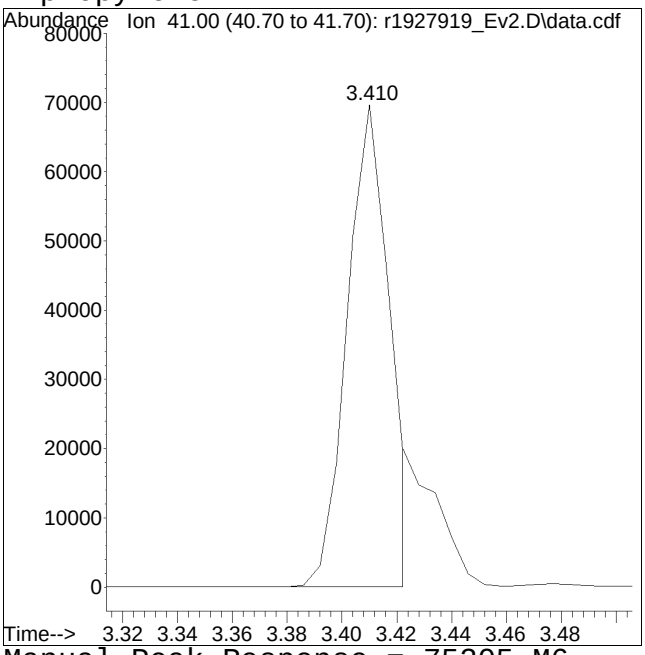
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927919_Ev2.D
Date Inj'd : 2/22/2020 0:2: 2
Sample : ITO15-SIMSTD5.0

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/23/2024 11:02 am

Compound #2: propylene



Original Peak Response = 88783



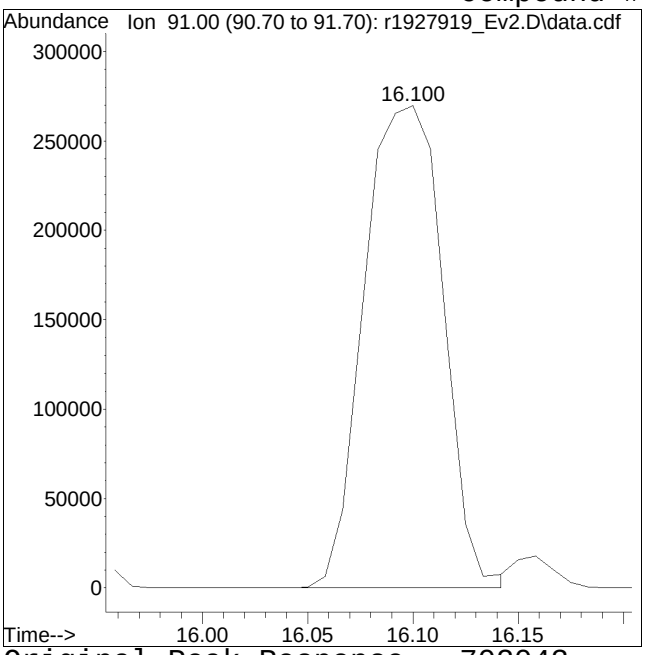
Manual Peak Response = 75205 M6

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

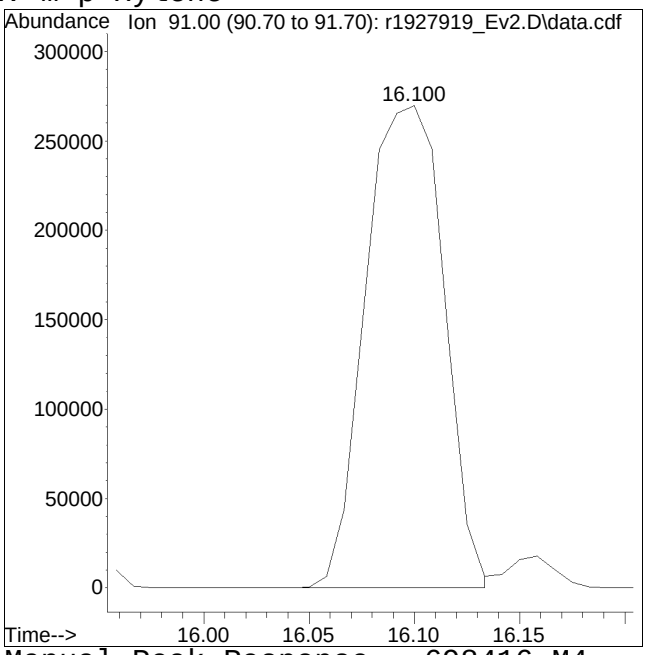
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927919_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 2/23/2024 11:02 am

Compound #61: m+p-xylene



Original Peak Response = 702043



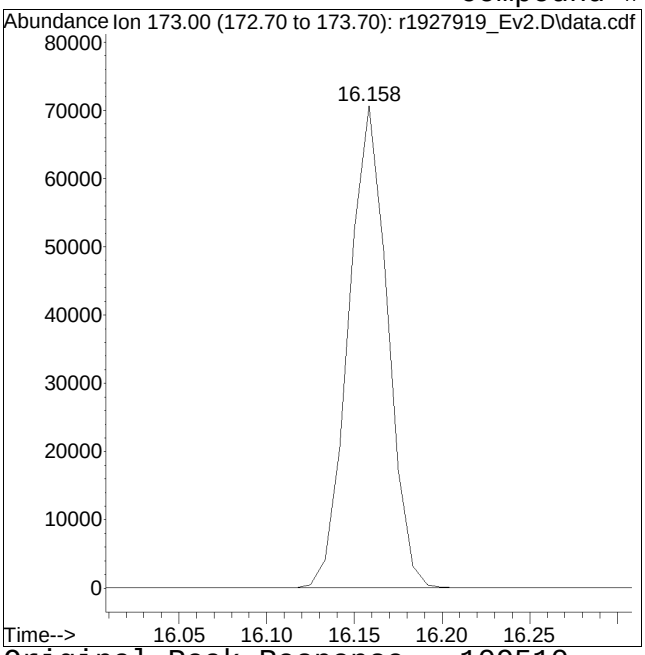
Manual Peak Response = 698416 M4

M4 = Poor automated baseline construction.

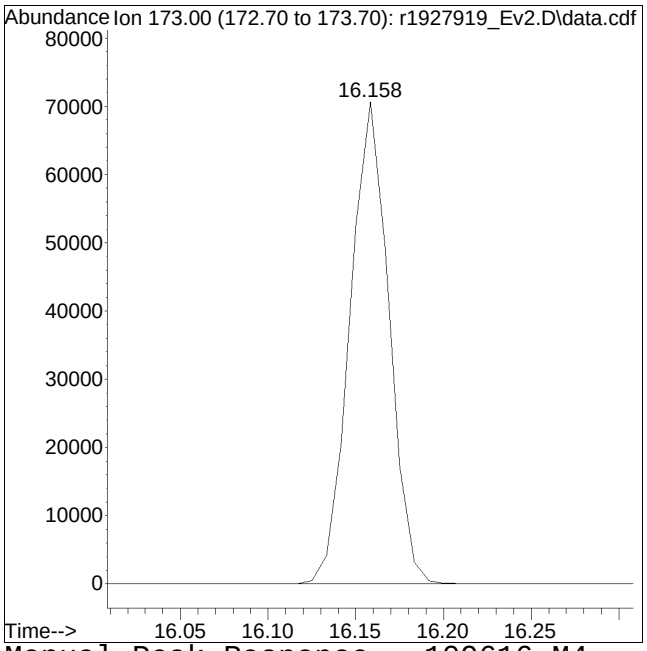
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927919_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 2/23/2024 11:02 am

Compound #62: bromoform



Original Peak Response = 109510



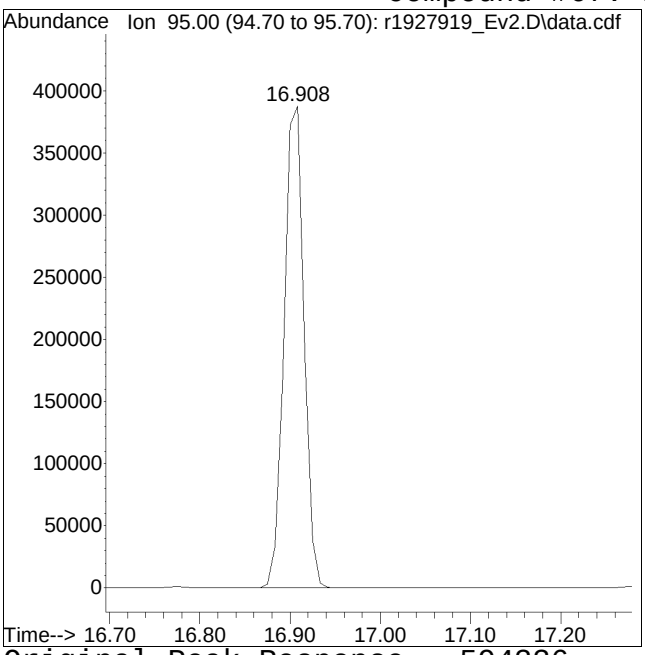
Manual Peak Response = 109616 M4

M4 = Poor automated baseline construction.

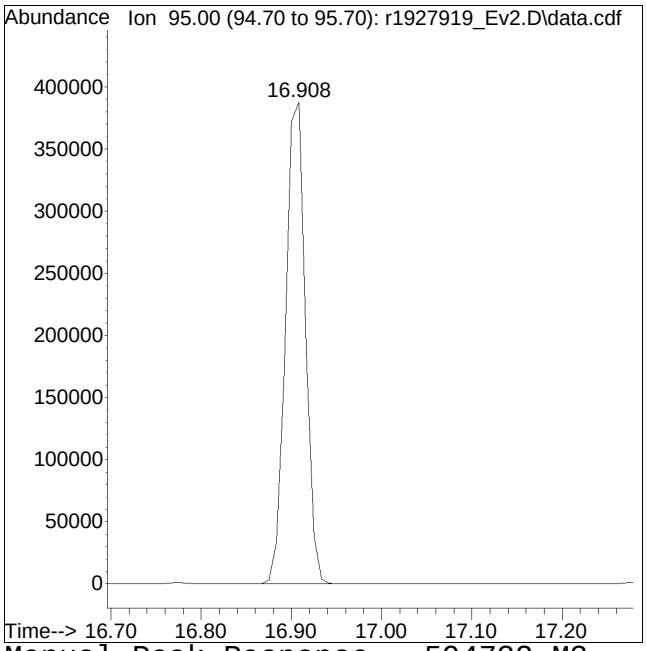
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927919_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 2/23/2024 11:02 am

Compound #67: bromofluorobenzene



Original Peak Response = 594336



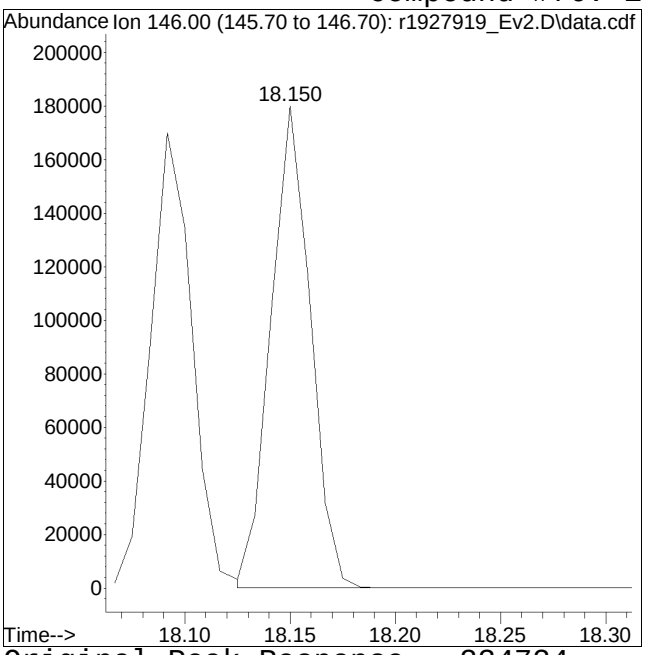
Manual Peak Response = 594732 M3

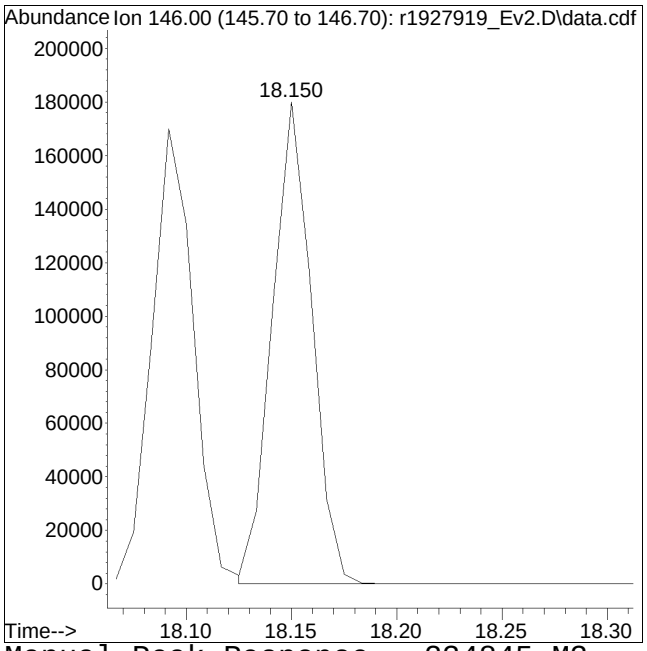
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927919_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 2 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 2/23/2024 11:02 am

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 234724 Manual Peak Response = 234845 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927920_Ev2.D
Acq On : 22 Feb 2024 1:36 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD010
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:11 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.500	49	224132	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 99.14%			
33) 1,4-difluorobenzene	10.753	114	749922	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.00%			
51) chlorobenzene-D5	15.533	54	109023	10.000	ppbV	0.00
Standard Area = 111274			Recovery = 97.98%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.375	65	319867	9.914	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.14%			
53) toluene-D8	13.608	98	893003	10.102	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.02%			
67) bromofluorobenzene	16.900	95	571152	9.802	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.02%			
Target Compounds						Qvalue
2) propylene	3.410	41	145131M6	9.733	ppbV	
3) dichlorodifluoromethane	3.482	85	236109	9.627	ppbV	99
4) chloromethane	3.632	50	101574	9.877	ppbV	99
5) Freon-114	3.728	85	257242	9.787	ppbV	98
6) vinyl chloride	3.842	62	146620	9.735	ppbV	99
7) 1,3-butadiene	3.974	54	102074	9.821	ppbV	95
8) bromomethane	4.238	94	99874	9.811	ppbV	99
9) chloroethane	4.412	64	79406	9.782	ppbV	99
10) ethanol	4.526	31	581304	49.280	ppbV	100
11) vinyl bromide	4.770	106	152472	9.828	ppbV	99
12) acrolein	4.887	56	83221	9.846	ppbV	100
13) acetone	5.020	43	1119665	48.902	ppbV	100
14) trichlorofluoromethane	5.223	101	301043	9.738	ppbV	99
15) isopropyl alcohol	5.293	45	609135	25.165	ppbV	100
16) acrylonitrile	5.537	53	137846	9.867	ppbV	100
17) 1,1-dichloroethene	5.920	61	283074	9.784	ppbV	100
18) tertiary butyl alcohol	5.956	59	337144	9.884	ppbV	99
19) methylene chloride	6.064	49	167282	9.794	ppbV	98
20) 3-chloropropene	6.196	41	263099	9.981	ppbV	99
21) carbon disulfide	6.364	76	481730	9.899	ppbV	99
22) Freon 113	6.370	101	314112	9.794	ppbV	100
23) trans-1,2-dichloroethene	7.125	61	287966	9.789	ppbV	99
24) 1,1-dichloroethane	7.350	63	368473	9.842	ppbV	100

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927920_Ev2.D
Acq On : 22 Feb 2024 1:36 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD010
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:11 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.417	73	457297	9.919	ppbV		99
26) vinyl acetate	7.542	43	326475	10.083	ppbV		99
27) 2-butanone	7.792	43	386194	10.102	ppbV		99
28) cis-1,2-dichloroethene	8.317	61	270649	9.814	ppbV		95
29) Ethyl Acetate	8.583	61	71927	10.025	ppbV		96
30) chloroform	8.658	83	258376	9.800	ppbV		99
31) Tetrahydrofuran	9.083	42	235581	9.938	ppbV		96
32) 1,2-dichloroethane	9.500	62	219353	9.694	ppbV		99
34) hexane	8.575	57	331207	9.665	ppbV		97
36) 1,1,1-trichloroethane	9.787	97	262358	9.823	ppbV		99
37) benzene	10.320	78	543980	9.731	ppbV		99
38) carbon tetrachloride	10.493	117	220704	10.169	ppbV		99
39) cyclohexane	10.633	56	338387	9.675	ppbV		98
40) Dibromomethane	11.233	93	159544	9.692	ppbV	#	99
41) 1,2-dichloropropane	11.267	63	253474	9.840	ppbV		100
42) bromodichloromethane	11.500	83	267242	9.900	ppbV		99
43) 1,4-dioxane	11.533	88	119262	9.710	ppbV		97
44) trichloroethene	11.553	130	206389	9.736	ppbV		100
45) 2,2,4-trimethylpentane	11.607	57	1041010	9.681	ppbV		100
46) heptane	11.927	43	375402	9.806	ppbV		99
47) cis-1,3-dichloropropene	12.567	75	295133	9.981	ppbV		100
48) 4-methyl-2-pentanone	12.600	43	444120	9.859	ppbV		99
49) trans-1,3-dichloropropene	13.192	75	239440	10.224	ppbV		100
50) 1,1,2-trichloroethane	13.392	97	220667	9.731	ppbV		100
52) toluene	13.725	91	646265	9.882	ppbV		99
54) 2-hexanone	14.025	43	425940	10.084	ppbV		100
55) dibromochloromethane	14.200	129	246404	10.236	ppbV		99
56) 1,2-dibromoethane	14.458	107	329152	10.019	ppbV		100
57) tetrachloroethene	14.942	166	248410	9.995	ppbV		97
58) 1,1,1,2-tetrachloroethane	15.567	131	190549	10.189	ppbV		99
59) chlorobenzene	15.575	112	543228	10.112	ppbV		99
60) ethylbenzene	15.933	91	833198	9.917	ppbV		99
61) m+p-xylene	16.100	91	1341580M4	19.504	ppbV		
62) bromoform	16.158	173	225951	10.529	ppbV		99
63) styrene	16.417	104	624029	10.043	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.508	83	431038	9.921	ppbV		99
65) o-xylene	16.508	91	672186	9.788	ppbV		98
66) 1,2,3-Trichloropropane	16.617	75	357547	10.110	ppbV		100
68) isopropylbenzene	17.017	105	943257	9.977	ppbV		100
69) Bromobenzene	17.092	77	459858	9.983	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927920_Ev2.D
Acq On : 22 Feb 2024 1:36 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD010
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:11 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

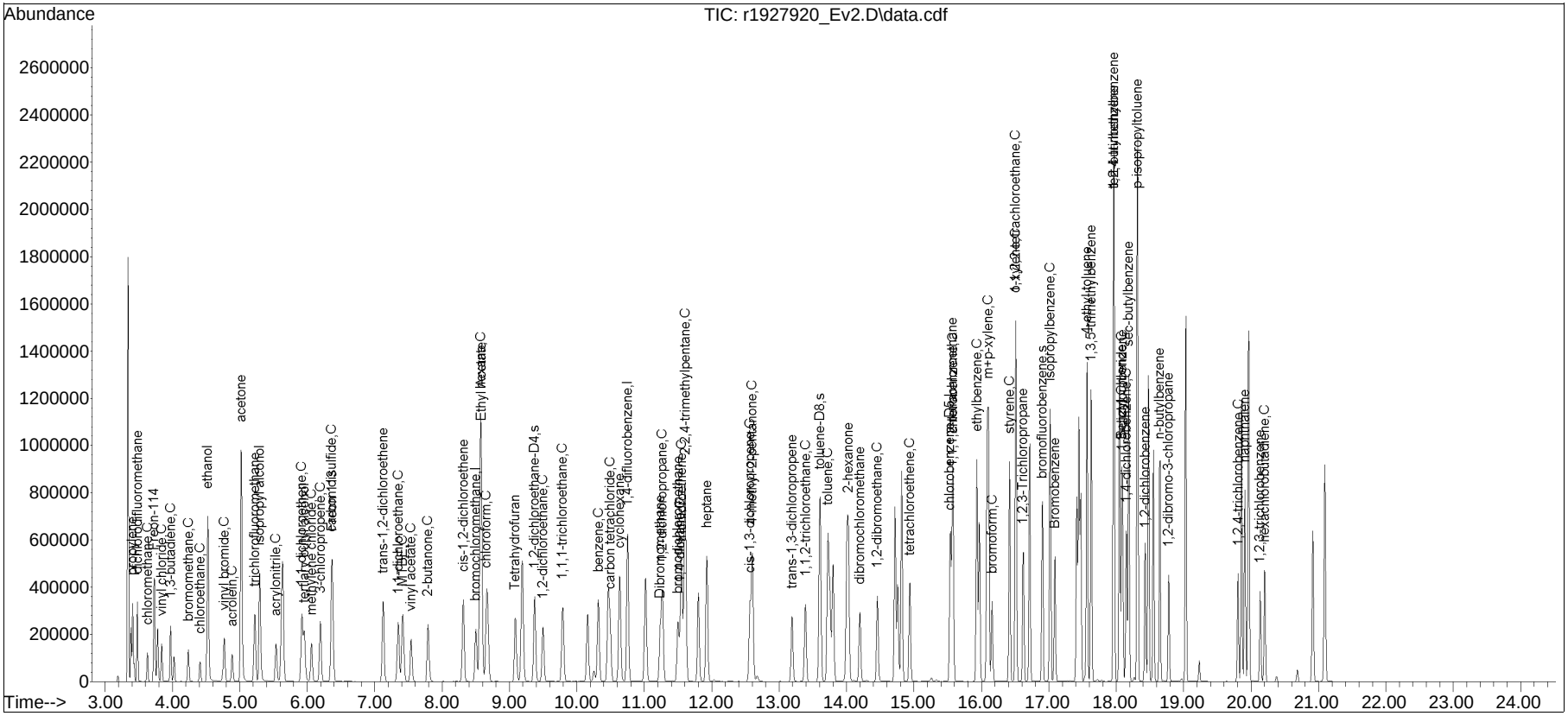
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	1002047	10.037	ppbV		100
71) 1,3,5-trimethylbenzene	17.625	105	994714	9.970	ppbV		99
72) tert-butylbenzene	17.967	119	806729	9.927	ppbV		100
73) 1,2,4-trimethylbenzene	17.967	105	885745	9.971	ppbV		99
74) Benzyl Chloride	18.083	91	529925	11.322	ppbV		98
75) 1,3-dichlorobenzene	18.092	146	475543	10.356	ppbV		100
76) 1,4-dichlorobenzene	18.150	146	470382	10.222	ppbV		99
77) sec-butylbenzene	18.183	105	1209586	9.977	ppbV		99
78) p-isopropyltoluene	18.317	119	970844	9.916	ppbV		99
79) 1,2-dichlorobenzene	18.433	146	449949	10.165	ppbV	#	87
80) n-butylbenzene	18.642	91	837720	9.827	ppbV		90
81) 1,2-dibromo-3-chloropr...	18.775	75	212541	10.390	ppbV		98
82) 1,2,4-trichlorobenzene	19.808	180	399873	10.390	ppbV		100
83) naphthalene	19.908	128	952166	10.168	ppbV		100
84) 1,2,3-trichlorobenzene	20.133	180	337764	10.327	ppbV		100
85) hexachlorobutadiene	20.200	225	347405	9.933	ppbV		99

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927920_Ev2.D
Acq On : 22 Feb 2024 1:36 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD010
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

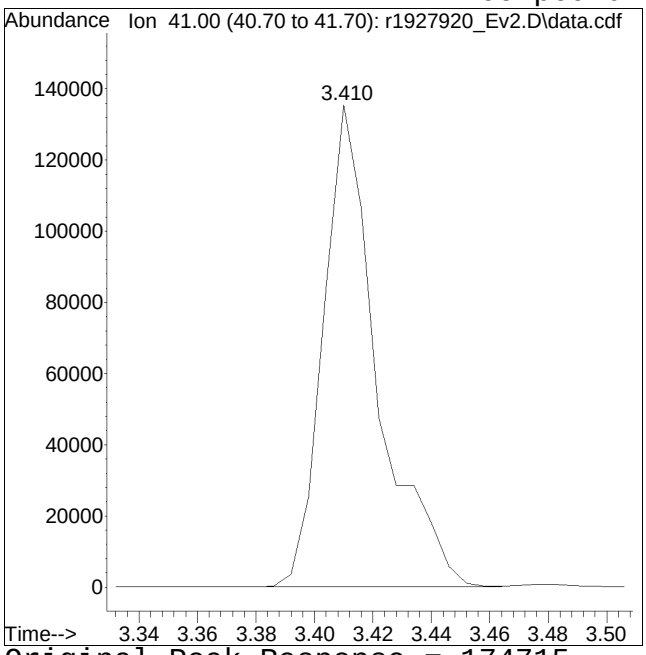
Quant Time: Feb 22 09:42:11 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration



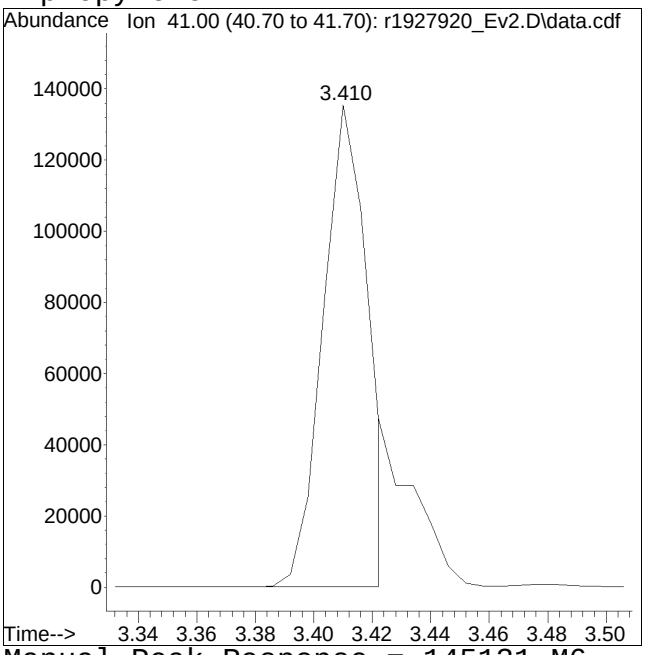
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927920_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 2/22/2024 9:42 am

Compound #2: propylene



Original Peak Response = 174715



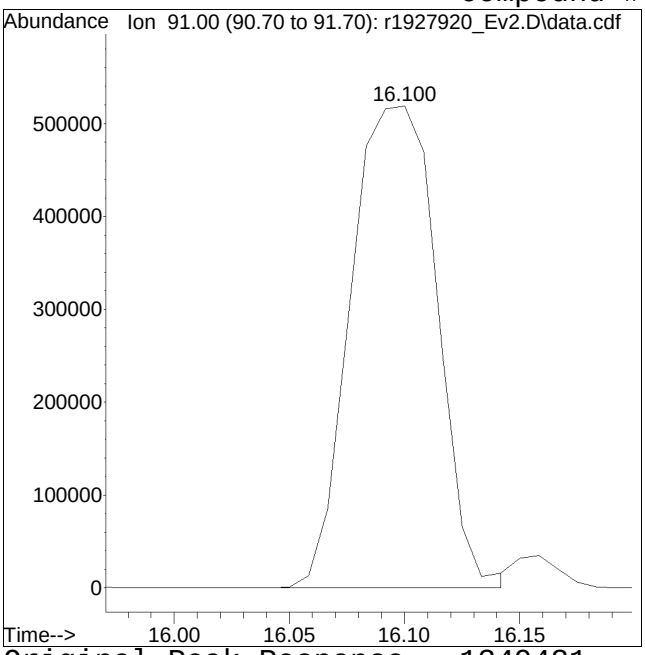
Manual Peak Response = 145131 M6

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

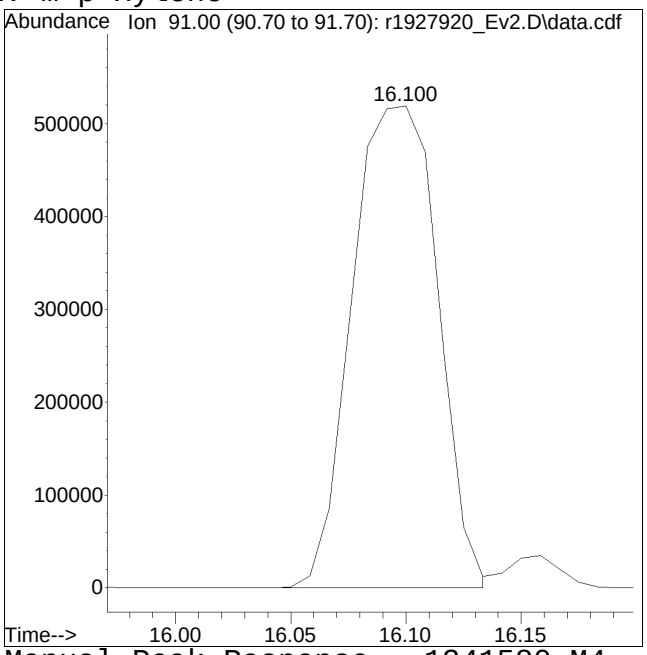
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927920_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:1: 6 Instrument :
Sample : ITO15-SIMSTD010 Quant Date : 2/22/2024 9:42 am

Compound #61: m+p-xylene



Original Peak Response = 1349431



Manual Peak Response = 1341580 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927921_Ev2.D
Acq On : 22 Feb 2024 2:20 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD020
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:16 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.500	49	224815	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 99.44%			
33) 1,4-difluorobenzene	10.753	114	751845	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.25%			
51) chlorobenzene-D5	15.542	54	108293	10.000	ppbV	# 0.00
Standard Area = 111274			Recovery = 97.32%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.375	65	315044	9.739	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.39%			
53) toluene-D8	13.608	98	884051	10.069	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.69%			
67) bromofluorobenzene	16.908	95	579641	10.015	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.15%			
Target Compounds						Qvalue
2) propylene	3.410	41	312192M6	20.872	ppbV	
3) dichlorodifluoromethane	3.482	85	488847	19.872	ppbV	99
4) chloromethane	3.632	50	212880	20.637	ppbV	99
5) Freon-114	3.728	85	528742	20.055	ppbV	97
6) vinyl chloride	3.842	62	304751	20.172	ppbV	99
7) 1,3-butadiene	3.974	54	215804	20.700	ppbV	92
8) bromomethane	4.238	94	206219	20.196	ppbV	99
9) chloroethane	4.412	64	164864	20.249	ppbV	100
10) ethanol	4.532	31	1095342	92.575	ppbV	91
11) vinyl bromide	4.773	106	326369	20.974	ppbV	100
12) acrolein	4.890	56	177542	20.942	ppbV	100
13) acetone	5.023	43	2362766	102.882	ppbV	99
14) trichlorofluoromethane	5.223	101	614976	19.832	ppbV	99
15) isopropyl alcohol	5.297	45	1424999	58.692	ppbV	100
16) acrylonitrile	5.540	53	294995	21.051	ppbV	99
17) 1,1-dichloroethene	5.920	61	595663	20.526	ppbV	99
18) tertiary butyl alcohol	5.956	59	813342	23.773	ppbV	98
19) methylene chloride	6.064	49	345767	20.183	ppbV	99
20) 3-chloropropene	6.196	41	568059	21.485	ppbV	98
21) carbon disulfide	6.364	76	1033142	21.165	ppbV	99
22) Freon 113	6.376	101	650974	20.235	ppbV	98
23) trans-1,2-dichloroethene	7.125	61	607168	20.577	ppbV	97
24) 1,1-dichloroethane	7.350	63	770631	20.521	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927921_Ev2.D
Acq On : 22 Feb 2024 2:20 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD020
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:16 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.417	73	983058	21.258	ppbV		98
26) vinyl acetate	7.542	43	748322	23.042	ppbV		98
27) 2-butanone	7.792	43	830167	21.650	ppbV		99
28) cis-1,2-dichloroethene	8.317	61	562103	20.321	ppbV		96
29) Ethyl Acetate	8.592	61	153431	21.320	ppbV		65
30) chloroform	8.658	83	536353	20.281	ppbV		98
31) Tetrahydrofuran	9.083	42	507681	21.352	ppbV		96
32) 1,2-dichloroethane	9.500	62	450684	19.856	ppbV		99
34) hexane	8.575	57	682496	19.865	ppbV		96
36) 1,1,1-trichloroethane	9.793	97	541850	20.235	ppbV		98
37) benzene	10.320	78	1147223	20.470	ppbV		99
38) carbon tetrachloride	10.493	117	472674	21.724	ppbV		100
39) cyclohexane	10.640	56	709665	20.238	ppbV		97
40) Dibromomethane	11.240	93	335895	20.353	ppbV	#	96
41) 1,2-dichloropropane	11.273	63	529288	20.495	ppbV		99
42) bromodichloromethane	11.500	83	566797	20.944	ppbV		98
43) 1,4-dioxane	11.533	88	260251	21.135	ppbV		99
44) trichloroethene	11.553	130	428708	20.172	ppbV		98
45) 2,2,4-trimethylpentane	11.607	57	2160558	20.041	ppbV		99
46) heptane	11.927	43	802732	20.915	ppbV		97
47) cis-1,3-dichloropropene	12.567	75	635676	21.442	ppbV		99
48) 4-methyl-2-pentanone	12.600	43	945988	20.946	ppbV		98
49) trans-1,3-dichloropropene	13.192	75	519188	22.112	ppbV		99
50) 1,1,2-trichloroethane	13.392	97	458179	20.154	ppbV		99
52) toluene	13.725	91	1328939	20.458	ppbV		99
54) 2-hexanone	14.033	43	910080	21.692	ppbV		99
55) dibromochloromethane	14.200	129	524299	21.928	ppbV		99
56) 1,2-dibromoethane	14.458	107	696839	21.355	ppbV		100
57) tetrachloroethene	14.942	166	522511	21.166	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.567	131	408625	21.997	ppbV		98
59) chlorobenzene	15.583	112	1144487	21.449	ppbV		95
60) ethylbenzene	15.933	91	1709259	20.481	ppbV		98
61) m+p-xylene	16.100	91	2739981	40.103	ppbV		95
62) bromoform	16.158	173	496432	23.290	ppbV		99
63) styrene	16.417	104	1310202	21.229	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	892679	20.685	ppbV		98
65) o-xylene	16.517	91	1345438	19.723	ppbV		91
66) 1,2,3-Trichloropropane	16.625	75	769305	21.900	ppbV		99
68) isopropylbenzene	17.025	105	1996738	21.262	ppbV		96
69) Bromobenzene	17.092	77	982136	21.465	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927921_Ev2.D
Acq On : 22 Feb 2024 2:20 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD020
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:16 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

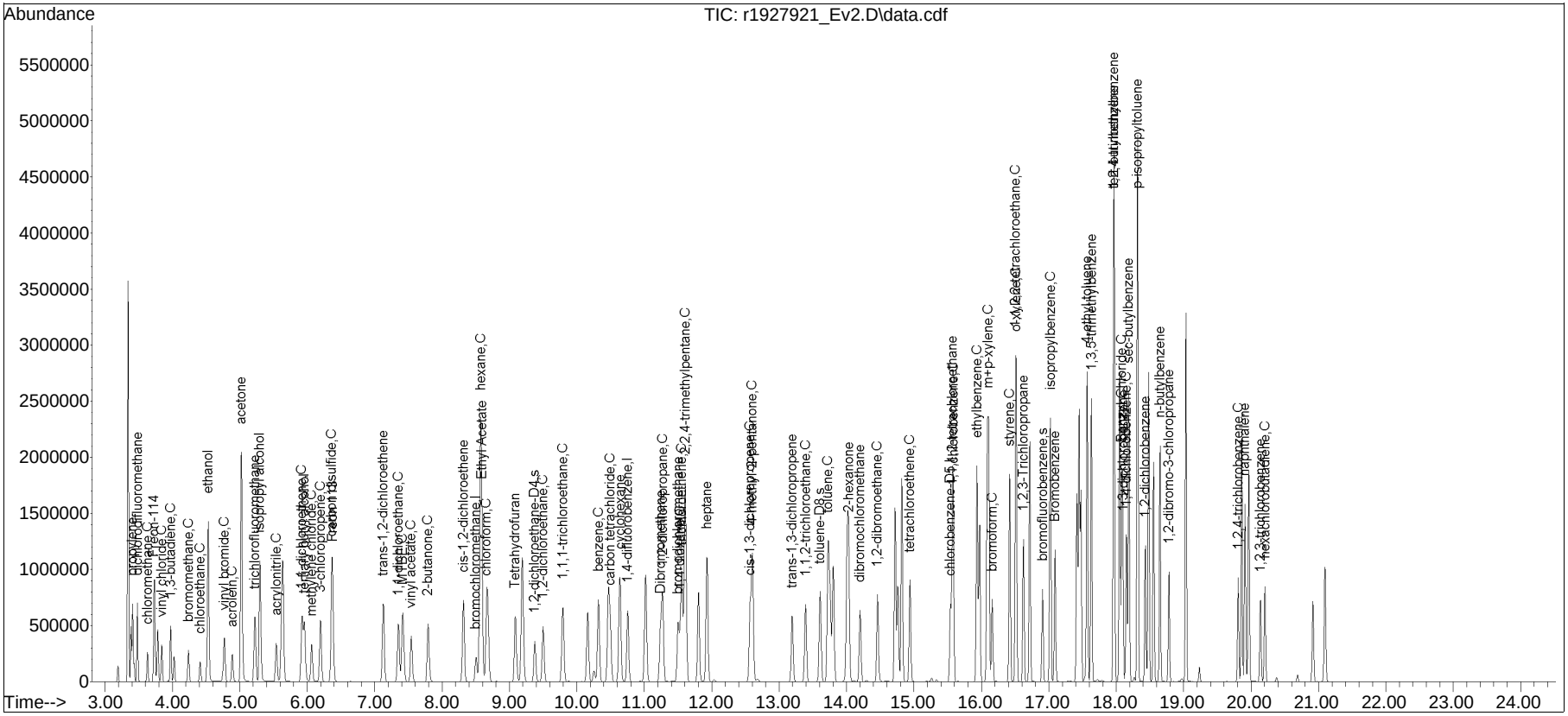
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.567	105	2089706	21.072	ppbV	99
71) 1,3,5-trimethylbenzene	17.633	105	2004004	20.221	ppbV	94
72) tert-butylbenzene	17.967	119	1670910	20.700	ppbV	99
73) 1,2,4-trimethylbenzene	17.967	105	1746773	19.797	ppbV	96
74) Benzyl Chloride	18.083	91	1205207	25.923	ppbV	98
75) 1,3-dichlorobenzene	18.100	146	964893	21.155	ppbV	92
76) 1,4-dichlorobenzene	18.150	146	964555	21.101	ppbV	96
77) sec-butylbenzene	18.183	105	2531201	21.019	ppbV	99
78) p-isopropyltoluene	18.317	119	1984538	20.407	ppbV	98
79) 1,2-dichlorobenzene	18.433	146	920260	20.930	ppbV	91
80) n-butylbenzene	18.650	91	1716546	20.272	ppbV	100
81) 1,2-dibromo-3-chloropr...	18.783	75	452890	22.289	ppbV	96
82) 1,2,4-trichlorobenzene	19.808	180	780731	20.422	ppbV	98
83) naphthalene	19.908	128	1890425	20.324	ppbV	99
84) 1,2,3-trichlorobenzene	20.142	180	683243	21.031	ppbV	95
85) hexachlorobutadiene	20.208	225	641977	18.479	ppbV	94

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927921_Ev2.D
Acq On : 22 Feb 2024 2:20 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD020
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

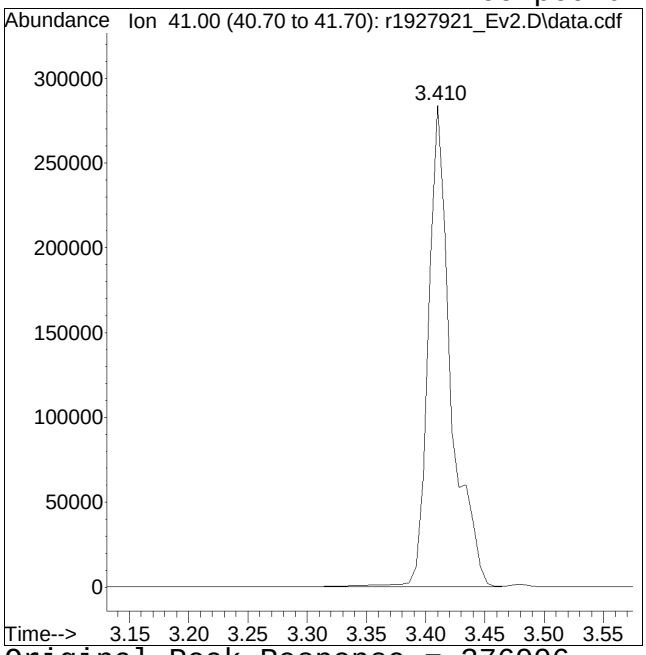
Quant Time: Feb 22 09:42:16 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration



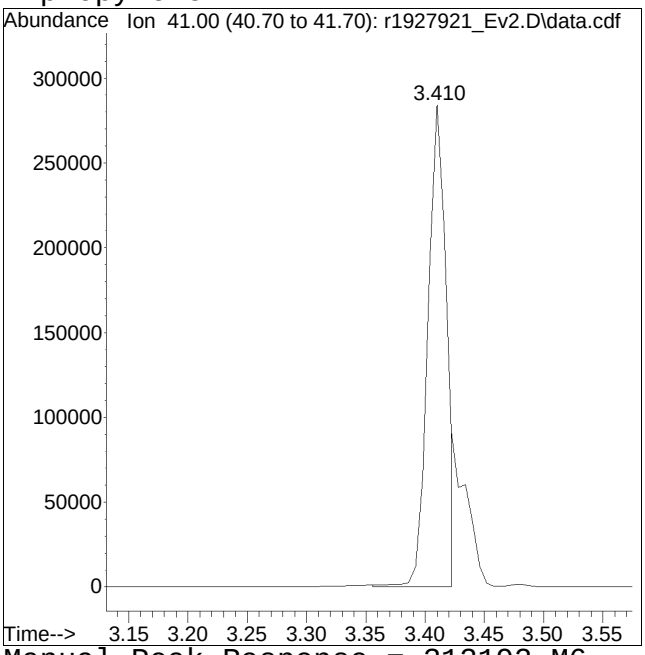
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab19QMethod : TSIM19_240221.M
Data File : r1927921_Ev2.D Operator : AIRLAB19:JMB
Date Inj'd : 2/22/2020 0:2: 0 Instrument :
Sample : ITO15-SIMSTD020 Quant Date : 2/22/2024 9:42 am

Compound #2: propylene



Original Peak Response = 376006



Manual Peak Response = 312192 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927922_Ev2.D
Acq On : 22 Feb 2024 3:04 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD050
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:21 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.508	49	224509	10.000	ppbV	0.00
Standard Area = 226076			Recovery = 99.31%			
33) 1,4-difluorobenzene	10.760	114	750852	10.000	ppbV	0.00
Standard Area = 749957			Recovery = 100.12%			
51) chlorobenzene-D5	15.542	54	104099	10.000	ppbV	# 0.00
Standard Area = 111274			Recovery = 93.55%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.375	65	300327	9.297	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.97%			
53) toluene-D8	13.608	98	857448	10.159	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.59%			
67) bromofluorobenzene	16.908	95	553375	9.946	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.46%			
Target Compounds						Qvalue
2) propylene	3.416	41	734102M6	49.147	ppbV	
3) dichlorodifluoromethane	3.482	85	1050730	42.770	ppbV	99
4) chloromethane	3.632	50	478412	46.441	ppbV	100
5) Freon-114	3.734	85	1129332	42.894	ppbV	100
6) vinyl chloride	3.848	62	666162	44.156	ppbV	100
7) 1,3-butadiene	3.980	54	478509	45.960	ppbV	99
8) bromomethane	4.244	94	454614	44.583	ppbV	99
9) chloroethane	4.412	64	363308	44.683	ppbV	98
10) ethanol	4.538	31	2547481	215.599	ppbV	90
11) vinyl bromide	4.777	106	731305	47.060	ppbV	98
12) acrolein	4.890	56	395404	46.704	ppbV	100
13) acetone	5.027	43	5120575	223.270	ppbV	98
14) trichlorofluoromethane	5.227	101	1321214	42.665	ppbV	100
15) isopropyl alcohol	5.303	45	3197808	131.889	ppbV	100
16) acrylonitrile	5.543	53	654226	46.750	ppbV	99
17) 1,1-dichloroethene	5.926	61	1296185	44.727	ppbV	99
18) tertiary butyl alcohol	5.962	59	1796684	52.585	ppbV	97
19) methylene chloride	6.070	49	764394	44.679	ppbV	96
20) 3-chloropropene	6.202	41	1301290	49.285	ppbV	96
21) carbon disulfide	6.370	76	2318015	47.551	ppbV	97
22) Freon 113	6.376	101	1405534	43.750	ppbV	97
23) trans-1,2-dichloroethene	7.133	61	1329038	45.102	ppbV	97
24) 1,1-dichloroethane	7.358	63	1709046	45.572	ppbV	99

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927922_Ev2.D
Acq On : 22 Feb 2024 3:04 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD050
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:21 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.417	73	2210058	47.856	ppbV		98
26) vinyl acetate	7.542	43	1771391	54.619	ppbV		98
27) 2-butanone	7.792	43	1763479	46.052	ppbV		99
28) cis-1,2-dichloroethene	8.317	61	1232228	44.607	ppbV		98
29) Ethyl Acetate	8.592	61	335412	46.670	ppbV		80
30) chloroform	8.667	83	1176938	44.565	ppbV		98
31) Tetrahydrofuran	9.083	42	1155074	48.646	ppbV		97
32) 1,2-dichloroethane	9.500	62	1017367	44.884	ppbV		98
34) hexane	8.583	57	1419786	41.380	ppbV	#	72
36) 1,1,1-trichloroethane	9.793	97	1175366	43.952	ppbV		97
37) benzene	10.327	78	2577352	46.048	ppbV		97
38) carbon tetrachloride	10.500	117	1051532	48.391	ppbV		99
39) cyclohexane	10.640	56	1548245	44.211	ppbV		95
40) Dibromomethane	11.240	93	721924	43.801	ppbV	#	93
41) 1,2-dichloropropane	11.273	63	1169009	45.326	ppbV		98
42) bromodichloromethane	11.507	83	1254818	46.428	ppbV		98
43) 1,4-dioxane	11.533	88	575824	46.825	ppbV		96
44) trichloroethene	11.560	130	945992	44.570	ppbV		96
45) 2,2,4-trimethylpentane	11.607	57	4589814	42.631	ppbV		96
46) heptane	11.933	43	1801967	47.012	ppbV		95
47) cis-1,3-dichloropropene	12.575	75	1448214	48.915	ppbV		97
48) 4-methyl-2-pentanone	12.608	43	2116326	46.922	ppbV		97
49) trans-1,3-dichloropropene	13.200	75	1183107	50.455	ppbV		97
50) 1,1,2-trichloroethane	13.392	97	1001775	44.124	ppbV		97
52) toluene	13.733	91	2866616	45.907	ppbV		98
54) 2-hexanone	14.033	43	2032787	50.403	ppbV		97
55) dibromochloromethane	14.200	129	1158922	50.423	ppbV		97
56) 1,2-dibromoethane	14.458	107	1528509	48.728	ppbV		98
57) tetrachloroethene	14.942	166	1143009	48.166	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.567	131	882097	49.398	ppbV		97
59) chlorobenzene	15.583	112	2474270	48.238	ppbV		98
60) ethylbenzene	15.933	91	3616588	45.082	ppbV		97
61) m+p-xylene	16.108	91	5664942	86.254	ppbV		93
62) bromoform	16.167	173	1103060	53.835	ppbV		99
63) styrene	16.425	104	2850143	48.040	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.508	83	1938525	46.730	ppbV		96
65) o-xylene	16.517	91	2714800	41.401	ppbV		94
66) 1,2,3-Trichloropropane	16.625	75	1737247	51.447	ppbV		99
68) isopropylbenzene	17.025	105	4184358	46.352	ppbV		92
69) Bromobenzene	17.092	77	2177538	49.509	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927922_Ev2.D
Acq On : 22 Feb 2024 3:04 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD050
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:21 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

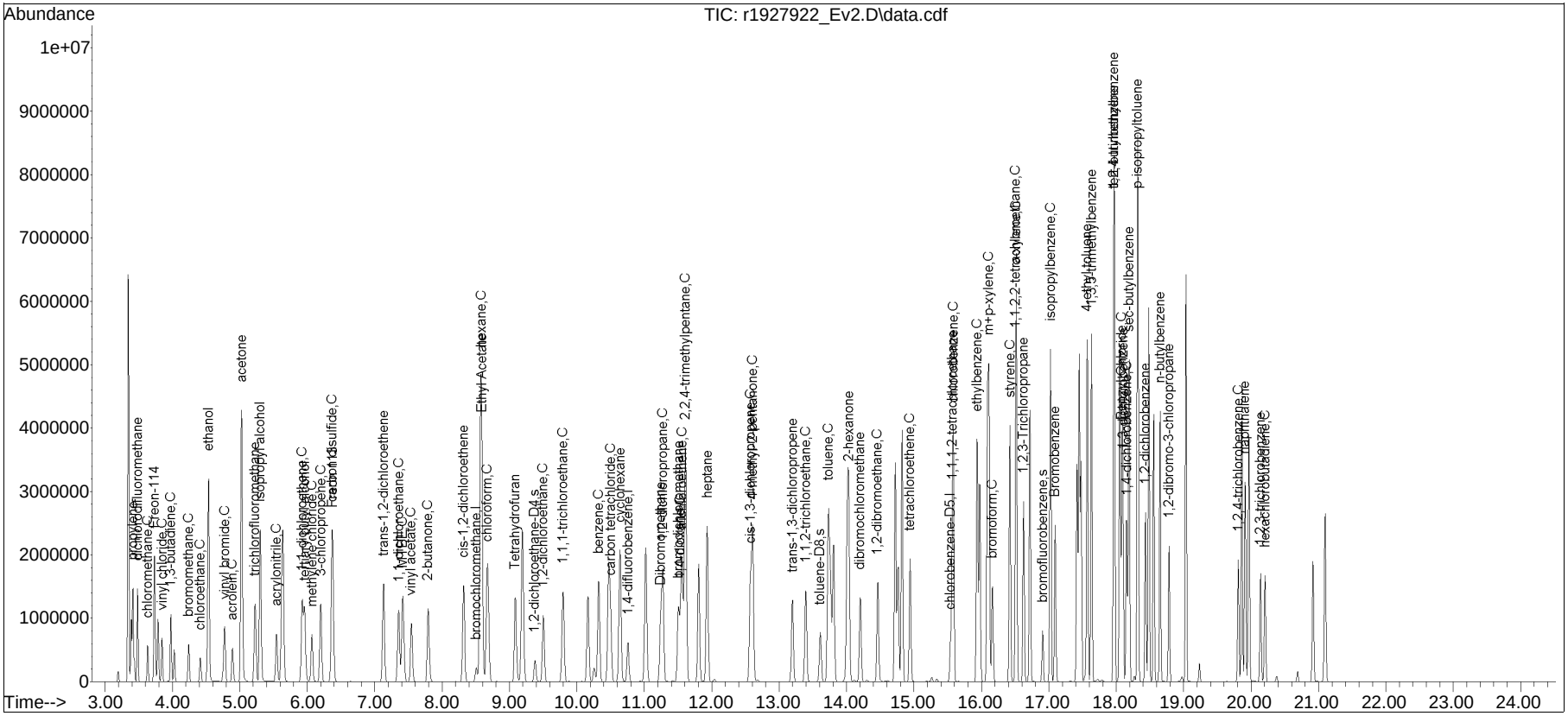
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.567	105	4384431	45.992	ppbV		96
71) 1,3,5-trimethylbenzene	17.633	105	4185518	43.935	ppbV		90
72) tert-butylbenzene	17.967	119	3335014	42.981	ppbV		98
73) 1,2,4-trimethylbenzene	17.967	105	3299881	38.905	ppbV	#	87
74) Benzyl Chloride	18.083	91	2619949	58.623	ppbV		95
75) 1,3-dichlorobenzene	18.100	146	2026142	46.212	ppbV		98
76) 1,4-dichlorobenzene	18.158	146	2082461	47.393	ppbV		99
77) sec-butylbenzene	18.192	105	5208767	44.995	ppbV		93
78) p-isopropyltoluene	18.317	119	3906308	41.786	ppbV		99
79) 1,2-dichlorobenzene	18.433	146	1962201	46.426	ppbV		98
80) n-butylbenzene	18.650	91	3514817	43.181	ppbV		99
81) 1,2-dibromo-3-chloropr...	18.783	75	985561	50.459	ppbV		95
82) 1,2,4-trichlorobenzene	19.808	180	1757348	47.819	ppbV		98
83) naphthalene	19.908	128	4138647	46.286	ppbV		100
84) 1,2,3-trichlorobenzene	20.142	180	1587901	50.847	ppbV		93
85) hexachlorobutadiene	20.208	225	1288563	38.584	ppbV		92

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927922_Ev2.D
Acq On : 22 Feb 2024 3:04 AM
Operator : AIRLAB19:JMB
Sample : ITO15-SIMSTD050
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 22 09:42:21 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Thu Feb 22 09:41:13 2024
Response via : Initial Calibration

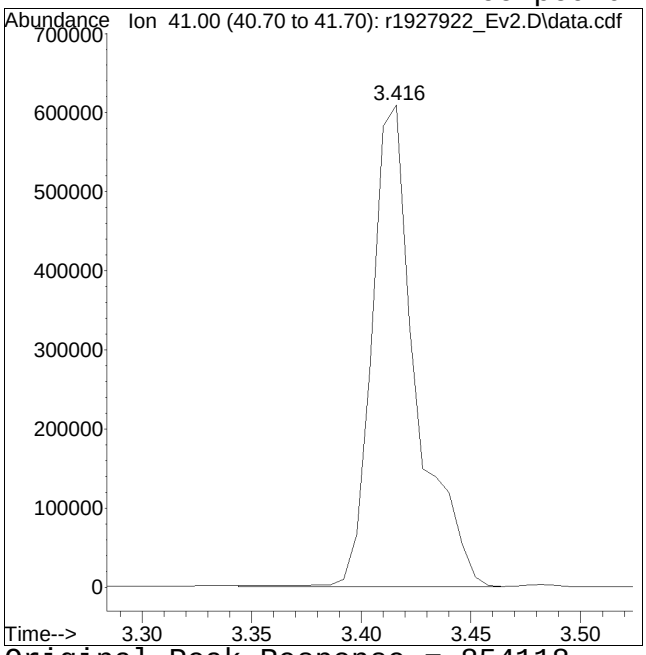


Manual Integration Report

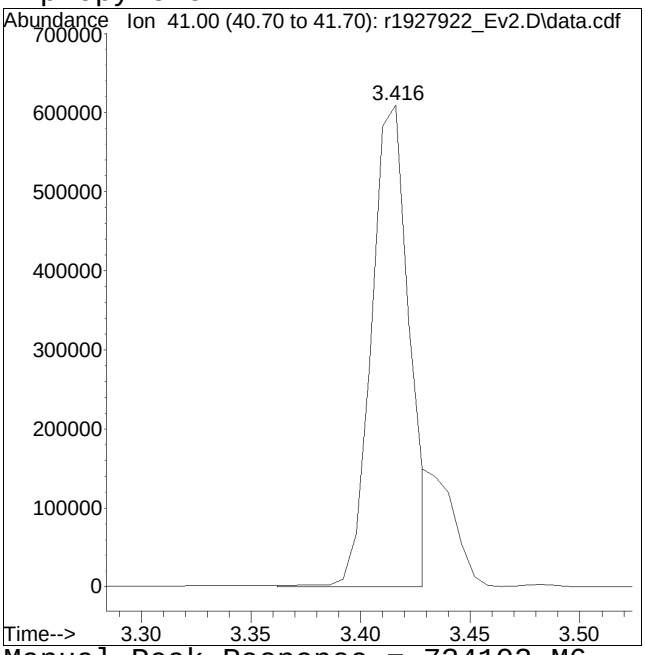
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927922_Ev2.D
Date Inj'd : 2/22/2020 0:3: 4
Sample : ITO15-SIMSTD050

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/22/2024 9:42 am

Compound #2: propylene



Original Peak Response = 854118



Manual Peak Response = 734102 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	89	0.03
2		propylene	0.699	0.785	-12.3	105	0.02
3		dichlorodifluoromethane	1.113	0.999	10.2	81	0.01
4	C	chloromethane	0.483	0.431	10.8	84	0.02
5		Freon-114	1.202	1.194	0.7	91	0.02
6	C	vinyl chloride	0.685	0.612	10.7	81	0.02
7	C	1,3-butadiene	0.492	0.475	3.5	91	0.02
8	C	bromomethane	0.467	0.432	7.5	85	0.02
9	C	chloroethane	0.378	0.342	9.5	84	0.02
10		ethanol	0.572	0.482	15.7	82	0.02
11	C	vinyl bromide	0.728	0.691	5.1	89	0.03
12	C	acrolein	0.405	0.334	17.5	79	0.02
13		acetone	1.091	1.023	6.2	89	0.03
14		trichlorofluoromethane	1.404	1.240	11.7	80	0.03
15		isopropyl alcohol	1.108	1.044	5.8	86	0.03
16	C	acrylonitrile	0.653	0.580	11.2	83	0.03
17	C	1,1-dichloroethene	1.311	1.214	7.4	84	0.02
18		tertiary butyl alcohol	1.532	1.490	2.7	87	0.03
19	C	methylene chloride	0.774	0.728	5.9	85	0.03
20	C	3-chloropropene	1.239	1.362	-9.9	103	0.03
21	C	carbon disulfide	2.387	2.174	8.9	89	0.03
22		Freon 113	1.480	1.385	6.4	86	0.03
23		trans-1,2-dichloroethene	1.357	1.228	9.5	83	0.03
24	C	1,1-dichloroethane	1.713	1.595	6.9	85	0.03
25	C	MTBE	2.166	2.181	-0.7	94	0.03
26	C	vinyl acetate	1.519	1.448	4.7	89	0.02
27	C	2-butanone	1.820	1.838	-1.0	96	0.03
28		cis-1,2-dichloroethene	1.260	1.147	9.0	83	0.03
29		Ethyl Acetate	0.327	0.327	0.0	91	0.03
30	C	chloroform	1.226	1.113	9.2	84	0.03
31		Tetrahydrofuran	1.116	1.121	-0.4	94	0.03
32	C	1,2-dichloroethane	1.053	0.900	14.5	79	0.03
33	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.03
34	C	hexane	0.461	0.398	13.7	84	0.03
35	s	1,2-dichloroethane-D4	0.422	0.383	9.2	86	0.03
36	C	1,1,1-trichloroethane	0.347	0.296	14.7	81	0.03
37	C	benzene	0.760	0.662	12.9	86	0.03
38	C	carbon tetrachloride	0.283	0.263	7.1	88	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		cyclohexane	0.472	0.412	12.7	86	0.03
40		Dibromomethane	0.230	0.183	20.4	81	0.03
41	C	1,2-dichloropropane	0.352	0.307	12.8	87	0.03
42		bromodichloromethane	0.360	0.336	6.7	90	0.03
43	C	1,4-dioxane	0.175	0.153	12.6	91	0.03
44	C	trichloroethene	0.284	0.244	14.1	84	0.03
45	C	2,2,4-trimethylpentane	1.466	1.274	13.1	86	0.03
46		heptane	0.527	0.504	4.4	96	0.03
47	C	cis-1,3-dichloropropene	0.389	0.380	2.3	93	0.03
48	C	4-methyl-2-pentanone	0.600	0.591	1.5	95	0.03
49		trans-1,3-dichloropropene	0.292	0.304	-4.1	94	0.03
50	C	1,1,2-trichloroethane	0.298	0.261	12.4	84	0.02
51	I	chlorobenzene-D5	1.000	1.000	0.0	84	0.03
52	C	toluene	6.271	5.804	7.4	82	0.03
53	s	toluene-D8	8.215	8.534	-3.9	89	0.03
54		2-hexanone	3.939	4.175	-6.0	91	0.03
55		dibromochloromethane	2.235	2.436	-9.0	93	0.03
56	C	1,2-dibromoethane	3.034	3.159	-4.1	89	0.02
57	C	tetrachloroethene	2.450	2.382	2.8	88	0.03
58		1,1,1,2-tetrachloroethane	1.687	1.718	-1.8	85	0.02
59	C	chlorobenzene	5.207	5.279	-1.4	90	0.03
60	C	ethylbenzene	7.810	7.430	4.9	81	0.02
61	C	m+p-xylene	6.292	6.161	2.1	83	0.02
62	C	bromoform	1.852	2.295	-23.9	98	0.02
63	C	styrene	5.502	6.052	-10.0	90	0.02
64	C	1,1,2,2-tetrachloroethane	4.049	4.094	-1.1	87	0.02
65	C	o-xylene	6.389	6.206	2.9	83	0.02
66		1,2,3-Trichloropropane	3.450	3.419	0.9	89	0.02
67	s	bromofluorobenzene	5.360	5.219	2.6	82	0.02
68	C	isopropylbenzene	9.074	9.355	-3.1	91	0.02
69		Bromobenzene	4.186	4.400	-5.1	88	0.02
70		4-ethyl toluene	9.141	9.975	-9.1	92	0.02
71		1,3,5-trimethylbenzene	9.291	9.583	-3.1	88	0.02
72		tert-butylbenzene	7.717	7.671	0.6	87	0.00
73		1,2,4-trimethylbenzene	8.147	8.505	-4.4	88	0.00
74	C	Benzyl Chloride	3.645	4.651	-27.6	91	0.00
75		1,3-dichlorobenzene	3.848	4.378	-13.8	88	0.02
76	C	1,4-dichlorobenzene	3.629	4.486	-23.6	90	0.02

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		sec-butylbenzene	11.553	11.686	-1.2	89	0.02
78		p-isopropyltoluene	9.102	8.506	6.5	80	0.00
79		1,2-dichlorobenzene	3.924	4.135	-5.4	86	0.02
80		n-butylbenzene	7.811	7.784	0.3	84	0.00
81		1,2-dibromo-3-chloropropane	1.528	1.954	-27.9	88	0.02
82	C	1,2,4-trichlorobenzene	2.722	3.196	-17.4	76	0.02
83		naphthalene	7.207	8.037	-11.5	79	0.02
84		1,2,3-trichlorobenzene	2.615	2.970	-13.6	84	0.02
85	C	hexachlorobutadiene	3.003	3.077	-2.5	81	0.02

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.533	49	201227	10.000	ppbV	0.03
Standard Area = 226076			Recovery = 89.01%			
33) 1,4-difluorobenzene	10.780	114	726206	10.000	ppbV	0.03
Standard Area = 749957			Recovery = 96.83%			
51) chlorobenzene-D5	15.558	54	93958	10.000	ppbV	# 0.03
Standard Area = 111274			Recovery = 84.44%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.400	65	278150	9.066	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 90.66%			
53) toluene-D8	13.633	98	801874	10.388	ppbV	0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.88%			
67) bromofluorobenzene	16.925	95	490368	9.738	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.38%			
Target Compounds						Qvalue
2) propylene	3.428	41	79003M6	5.619	ppbV	
3) dichlorodifluoromethane	3.494	85	100553	4.489	ppbV	98
4) chloromethane	3.644	50	43349	4.462	ppbV	100
5) Freon-114	3.746	85	120132	4.965	ppbV	97
6) vinyl chloride	3.860	62	61611	4.468	ppbV	100
7) 1,3-butadiene	3.992	54	47777	4.827	ppbV	94
8) bromomethane	4.256	94	43469	4.626	ppbV	99
9) chloroethane	4.430	64	34425	4.522	ppbV	99
10) ethanol	4.550	31	242681	21.067	ppbV	93
11) vinyl bromide	4.793	106	69554	4.745	ppbV	98
12) acrolein	4.910	56	33654	4.126	ppbV	99
13) acetone	5.047	43	514679	23.433	ppbV	95
14) trichlorofluoromethane	5.247	101	124810	4.418	ppbV	98
15) isopropyl alcohol	5.323	45	262607	11.774	ppbV	99
16) acrylonitrile	5.563	53	58306	4.436	ppbV	99
17) 1,1-dichloroethene	5.944	61	122124	4.629	ppbV	99
18) tertiary butyl alcohol	5.986	59	149961	4.864	ppbV	96
19) methylene chloride	6.088	49	73248	4.701	ppbV	97
20) 3-chloropropene	6.220	41	137045	5.497	ppbV	97
21) carbon disulfide	6.394	76	218702	4.553	ppbV	98
22) Freon 113	6.400	101	139309	4.678	ppbV	98
23) trans-1,2-dichloroethene	7.150	61	123509	4.524	ppbV	97
24) 1,1-dichloroethane	7.375	63	160528	4.656	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.450	73	219426	5.035	ppbV		95
26) vinyl acetate	7.567	43	145719	4.766	ppbV		96
27) 2-butanone	7.825	43	184920	5.048	ppbV		97
28) cis-1,2-dichloroethene	8.342	61	115387	4.551	ppbV		97
29) Ethyl Acetate	8.617	61	32853	4.988	ppbV		88
30) chloroform	8.692	83	111972	4.538	ppbV		98
31) Tetrahydrofuran	9.117	42	112756	5.020	ppbV		96
32) 1,2-dichloroethane	9.525	62	90600	4.274	ppbV		98
34) hexane	8.608	57	144484	4.320	ppbV		78
36) 1,1,1-trichloroethane	9.820	97	107588	4.273	ppbV		97
37) benzene	10.347	78	240294	4.352	ppbV		96
38) carbon tetrachloride	10.520	117	95316	4.636	ppbV		99
39) cyclohexane	10.667	56	149649	4.370	ppbV		92
40) Dibromomethane	11.267	93	66413	3.980	ppbV	#	93
41) 1,2-dichloropropane	11.293	63	111565	4.360	ppbV		99
42) bromodichloromethane	11.527	83	122143	4.676	ppbV		98
43) 1,4-dioxane	11.567	88	55623	4.369	ppbV		95
44) trichloroethene	11.580	130	88544	4.289	ppbV		98
45) 2,2,4-trimethylpentane	11.633	57	462420	4.343	ppbV		96
46) heptane	11.953	43	183021	4.785	ppbV		93
47) cis-1,3-dichloropropene	12.592	75	138041	4.890	ppbV		99
48) 4-methyl-2-pentanone	12.633	43	214653	4.930	ppbV		96
49) trans-1,3-dichloropropene	13.217	75	110390	5.199	ppbV		100
50) 1,1,2-trichloroethane	13.417	97	94907	4.390	ppbV		98
52) toluene	13.750	91	272664	4.628	ppbV		99
54) 2-hexanone	14.050	43	196138	5.300	ppbV		94
55) dibromochloromethane	14.225	129	114419	5.449	ppbV		100
56) 1,2-dibromoethane	14.483	107	148411	5.207	ppbV		99
57) tetrachloroethene	14.958	166	111885	4.861	ppbV		94
58) 1,1,1,2-tetrachloroethane	15.583	131	80702	5.090	ppbV		98
59) chlorobenzene	15.600	112	248007	5.069	ppbV		95
60) ethylbenzene	15.950	91	349070	4.757	ppbV		95
61) m+p-xylene	16.117	91	578906	9.793	ppbV		93
62) bromoform	16.175	173	107796	6.195	ppbV		99
63) styrene	16.433	104	284309	5.500	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.525	83	192327	5.056	ppbV		98
65) o-xylene	16.525	91	291569	4.857	ppbV		95
66) 1,2,3-Trichloropropane	16.642	75	160602	4.955	ppbV		99
68) isopropylbenzene	17.033	105	439502	5.155	ppbV		99
69) Bromobenzene	17.108	77	206709	5.256	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\r1927919_Ev2.D
Sub List : Default - All compounds listed

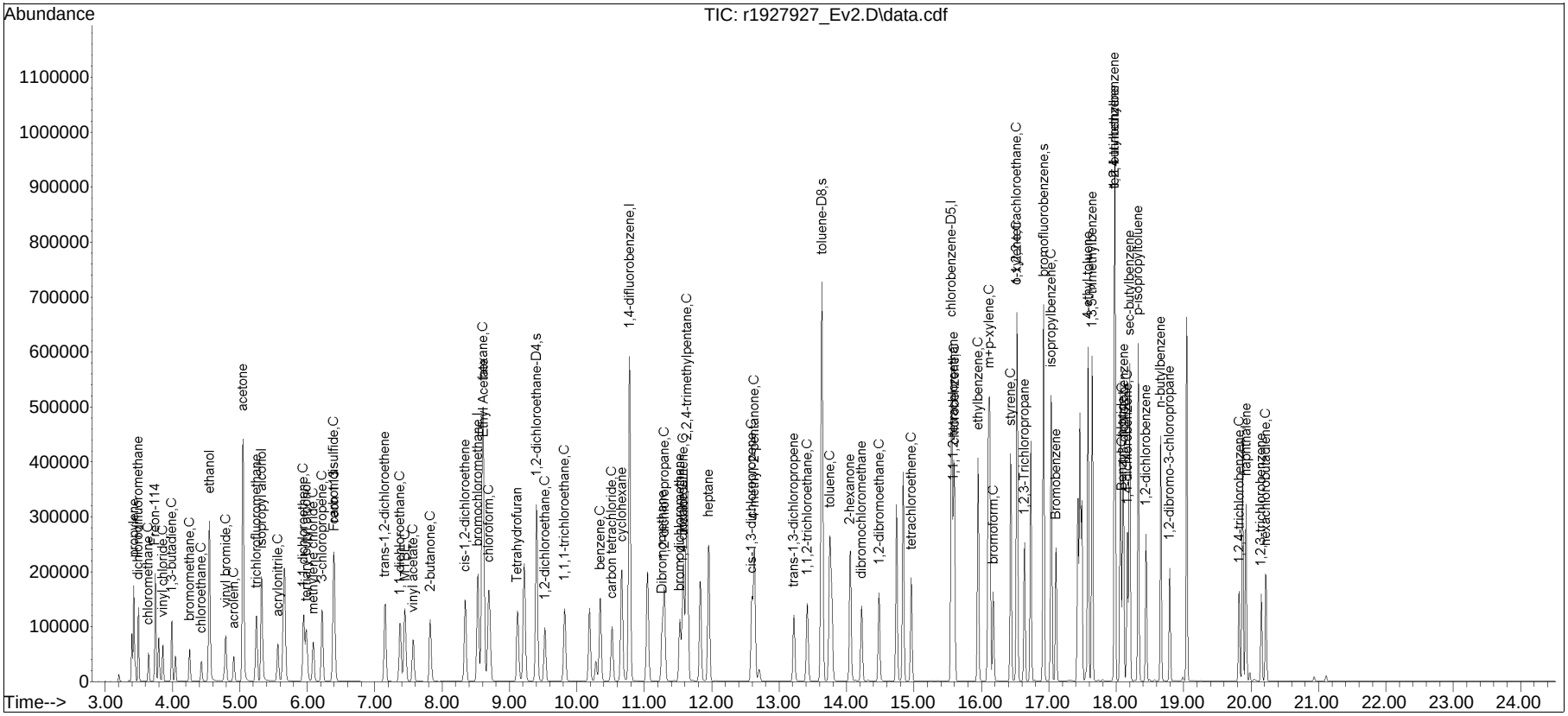
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.583	105	468632	5.457	ppbV	99
71) 1,3,5-trimethylbenzene	17.642	105	450214	5.157	ppbV	99
72) tert-butylbenzene	17.975	119	360357	4.970	ppbV	95
73) 1,2,4-trimethylbenzene	17.975	105	399575	5.220	ppbV	95
74) Benzyl Chloride	18.092	91	218508	6.379	ppbV	98
75) 1,3-dichlorobenzene	18.108	146	205655	5.688	ppbV	99
76) 1,4-dichlorobenzene	18.167	146	210767	6.181	ppbV	98
77) sec-butylbenzene	18.200	105	548990	5.058	ppbV	99
78) p-isopropyltoluene	18.325	119	399621	4.673	ppbV	98
79) 1,2-dichlorobenzene	18.442	146	194262	5.269	ppbV	97
80) n-butylbenzene	18.658	91	365664	4.983	ppbV	93
81) 1,2-dibromo-3-chloropr...	18.792	75	91812	6.393	ppbV	97
82) 1,2,4-trichlorobenzene	19.825	180	150125	5.870	ppbV	100
83) naphthalene	19.925	128	377550	5.576	ppbV	100
84) 1,2,3-trichlorobenzene	20.150	180	139531	5.679	ppbV	99
85) hexachlorobutadiene	20.217	225	144566	5.124	ppbV	99

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

Sub List : Default - All compounds listed4\02\0221SIM_I\r1927919_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\
Data File : r1927927_Ev2.D
Acq On : 22 Feb 2024 12:49 PM
Operator : AIRLAB19:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1888539
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 23 11:08:15 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0221SIM_I\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

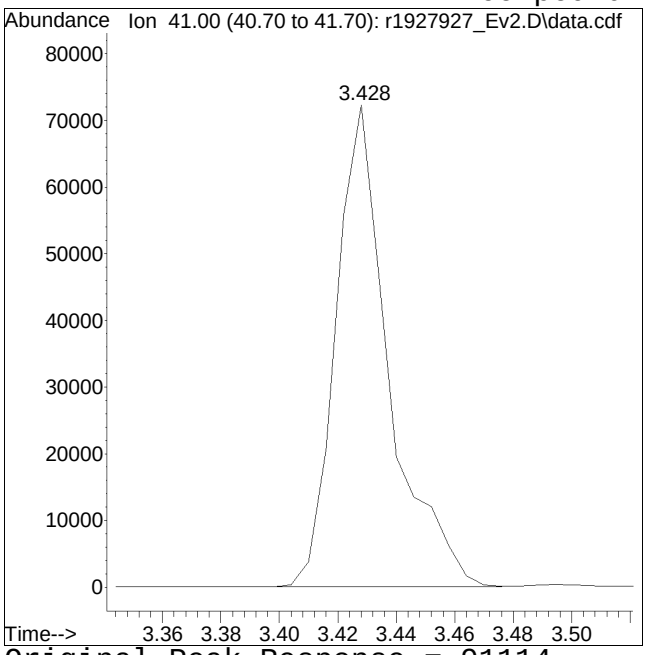


Manual Integration Report

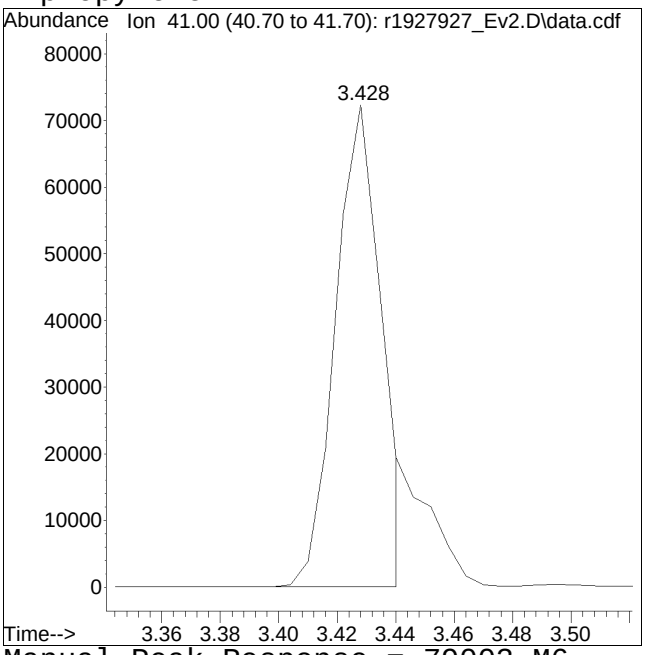
Data Path : O:\Forensics\Data\Airlab19Q
Data File : r1927927_Ev2.D
Date Inj'd : 2/22/2020 0:2: 9
Sample : CTO15-SIMSTD5.0

Method : TSIM19_240221.M
Operator : AIRLAB19:JMB
Instrument :
Quant Date : 2/23/2024 11:08 am

Compound #2: propylene



Original Peak Response = 91114



Manual Peak Response = 79003 M6

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

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Method File : TSIM3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 17:54:34 2024
Response Via : Initial Calibration

Calibration Files
0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D
1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	ISTD											
2)		propylene				0.755	0.695	0.645	0.690	0.680	0.676	0.638	0.6827	5.66
3)		dichlorodifluorome...				1.385	1.309	1.251	1.289	1.200	1.114	0.903	1.2074	13.19
4)	C	chloromethane				0.671	0.631	0.601	0.623	0.598	0.587	0.507	0.6025	8.39
5)		Freon-114		1.552	1.525	1.673	1.601	1.532	1.587	1.501	1.419	1.119	1.5009	10.64
6)	C	vinyl chloride	0.905	0.832	0.833	0.920	0.886	0.848	0.878	0.828	0.782	0.638	0.8352	9.65
7)	C	1,3-butadiene	0.593	0.586	0.570	0.645	0.600	0.578	0.594	0.568	0.557	0.465	0.5757	7.92
8)	C	bromomethane	0.725	0.677	0.622	0.656	0.633	0.600	0.625	0.595	0.573	0.473	0.6179	10.87
9)	C	chloroethane	0.496	0.468	0.422	0.462	0.451	0.420	0.444	0.422	0.408	0.338	0.4332	9.86
10)		ethanol					0.539	0.507	0.473	0.479	0.429	0.335	0.4602	15.51
11)	C	vinyl bromide				0.722	0.690	0.662	0.686	0.661	0.638	0.519	0.6540	9.98
12)	C	acrolein		0.305	0.383	0.431	0.391	0.382	0.385	0.377	0.404	0.359	0.3796	9.05
13)		acetone				1.235	1.124	1.047	1.057	1.025	1.037	0.874	1.0570	10.29
14)		trichlorofluoromet...		1.359	1.399	1.371	1.330	1.263	1.314	1.255	1.216	0.989	1.2773	9.66
15)		isopropyl alcohol				1.341	1.281	1.202	1.286	1.271	1.329	1.199	1.2728	4.36
16)	C	acrylonitrile			0.560	0.681	0.656	0.624	0.630	0.620	0.672	0.608	0.6314	6.16
17)	C	1,1-dichloroethene	1.266	1.257	1.207	1.362	1.267	1.210	1.278	1.231	1.220	1.035	1.2333	6.74
18)		tertiary butyl alc...				1.700	1.666	1.573	1.633	1.604	1.751	1.503	1.6326	5.05
19)	C	methylene chloride					0.862	0.811	0.818	0.791	0.797	0.714	0.7989	6.06
20)	C	3-chloropropene				1.188	1.129	1.084	1.163	1.153	1.219	1.137	1.1535	3.77
21)	C	carbon disulfide				2.166	2.099	2.070	2.234	2.261	2.386	2.126	2.1916	5.03
22)		Freon 113		1.645	1.502	1.544	1.441	1.366	1.415	1.379	1.375	1.164	1.4257	9.44
23)		trans-1,2-dichloro...	1.166	1.238	1.208	1.341	1.303	1.244	1.286	1.250	1.267	1.102	1.2406	5.55
24)	C	1,1-dichloroethane	1.676	1.642	1.556	1.694	1.633	1.554	1.628	1.584	1.593	1.407	1.5967	5.11
25)	C	MTBE	1.905	1.980	1.928	2.164	2.074	1.976	2.072	2.038	2.091	1.878	2.0106	4.57
26)	C	vinyl acetate					1.628	1.596	1.614	1.613	1.723	1.647	1.6369	2.80
27)	C	2-butanone				1.619	1.579	1.540	1.754	1.740	1.821	1.609	1.6661	6.31
28)		cis-1,2-dichloroet...	1.209	1.143	1.133	1.305	1.205	1.157	1.225	1.187	1.188	1.030	1.1781	6.05
29)		Ethyl Acetate				0.290	0.280	0.288	0.320	0.321	0.335	0.294	0.3039	6.89
30)	C	chloroform	1.421	1.277	1.292	1.364	1.319	1.254	1.307	1.269	1.250	1.069	1.2822	7.14
31)		Tetrahydrofuran				1.004	1.020	0.990	1.070	1.062	1.114	1.062	1.0461	4.16

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Method File : TSIM3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 17:54:34 2024
Response Via : Initial Calibration

Calibration Files
0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D
1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
32)	C	1,2-dichloroethane	1.112	0.959	0.895	1.162	1.026	0.947	0.973	0.924	0.889	0.716	0.9602	12.94
33)	I	1,4-difluorobenzene	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------		
34)	C	hexane				0.521	0.501	0.477	0.495	0.477	0.477	0.394	0.4774	8.44
35)	s	1,2-dichloroethane-D4				0.463	0.471	0.462	0.463	0.449	0.426	0.377	0.4445	7.46
36)	C	1,1,1-trichloroethane	0.367	0.389	0.353	0.386	0.373	0.362	0.383	0.389	0.359	0.297	0.3658	7.56
37)	C	benzene			0.980	0.939	0.871	0.829	0.869	0.846	0.855	0.777	0.8709	7.24
38)	C	carbon tetrachloride	0.279	0.287	0.293	0.307	0.303	0.290	0.316	0.309	0.303	0.251	0.2940	6.38
39)		cyclohexane				0.542	0.510	0.495	0.514	0.496	0.503	0.438	0.4996	6.34
40)		Dibromomethane		0.252	0.234	0.248	0.244	0.236	0.237	0.232	0.243	0.211	0.2374	5.00
41)	C	1,2-dichloropropane	0.373	0.312	0.333	0.377	0.360	0.341	0.363	0.358	0.359	0.314	0.3492	6.59
42)		bromodichloromethane	0.347	0.348	0.347	0.368	0.369	0.365	0.400	0.397	0.401	0.347	0.3689	6.12
43)	C	1,4-dioxane			0.177	0.186	0.188	0.179	0.200	0.194	0.200	0.181	0.1880	4.94
44)	C	trichloroethene	0.307	0.310	0.342	0.374	0.339	0.335	0.354	0.344	0.345	0.303	0.3354	6.76
45)	C	2,2,4-trimethylpen...				1.851	1.789	1.712	1.558	1.562	1.526	1.279	1.6112	11.95
46)		heptane				0.564	0.557	0.531	0.559	0.551	0.573	0.520	0.5507	3.38
47)	C	cis-1,3-dichloropr...	0.297	0.341	0.339	0.387	0.390	0.382	0.438	0.438	0.448	0.410	0.3872	12.81
48)	C	4-methyl-2-pentanone					0.600	0.586	0.650	0.645	0.663	0.601	0.6243	5.15
49)		trans-1,3-dichloro...	0.163	0.177	0.259	0.272	0.294	0.299	0.349	0.349	0.358	0.325	0.2845	24.23
50)	C	1,1,2-trichloroethane	0.294	0.299	0.298	0.333	0.324	0.311	0.334	0.327	0.327	0.286	0.3131	5.66
51)	I	chlorobenzene-D5	----------	----------	----------	ISTD	----------	----------	----------	----------	----------	----------		
52)	C	toluene		6.962	6.915	7.201	6.839	6.586	7.003	6.890	7.092	6.589	6.8975	2.99
53)	s	toluene-D8				9.117	9.199	8.992	9.020	9.126	9.400	9.824	9.2398	3.14
54)		2-hexanone				2.871	3.239	3.349	4.074	4.167	4.466	4.289	3.7792	16.28
55)		dibromochloromethane	1.814	1.790	1.895	2.004	2.002	2.056	2.441	2.545	2.728	2.545	2.1819	15.88
56)	C	1,2-dibromoethane	2.272	2.624	2.511	2.980	2.839	2.775	3.086	3.144	3.278	3.023	2.8533	10.95
57)	C	tetrachloroethene	3.133	2.807	2.706	2.865	2.728	2.640	2.816	2.815	2.926	2.590	2.8026	5.51
58)		1,1,1,2-tetrachlor...	2.006	1.934	2.000	2.110	2.068	1.992	2.048	2.039	2.262	2.063	2.0521	4.31
59)	C	chlorobenzene	5.034	4.775	4.824	5.201	4.973	4.831	5.227	5.278	5.490	4.958	5.0590	4.60
60)	C	ethylbenzene	7.727	8.151	8.214	8.613	8.362	8.102	8.757	8.702	8.780	8.059	8.3467	4.26
61)	C	m+p-xylene	5.996	6.407	6.436	7.049	6.809	6.609	7.121	6.997	7.041	6.235	6.6702	5.87

Response Factor Report

Method Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Method File : TSIM3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 17:54:34 2024
Response Via : Initial Calibration

Calibration Files
0.02=r328236_Ev2.D 0.05=r328237_Ev2.D 0.1 =r328238_Ev2.D 0.2 =r328239_Ev2.D 0.5 =r328240_Ev2.D
1.0 =r328241_Ev2.D 5.0 =r328242_Ev2.D 10.0=r328243_Ev2.D 20.0=r328244_Ev2.D 50.0=r328245_Ev2.D

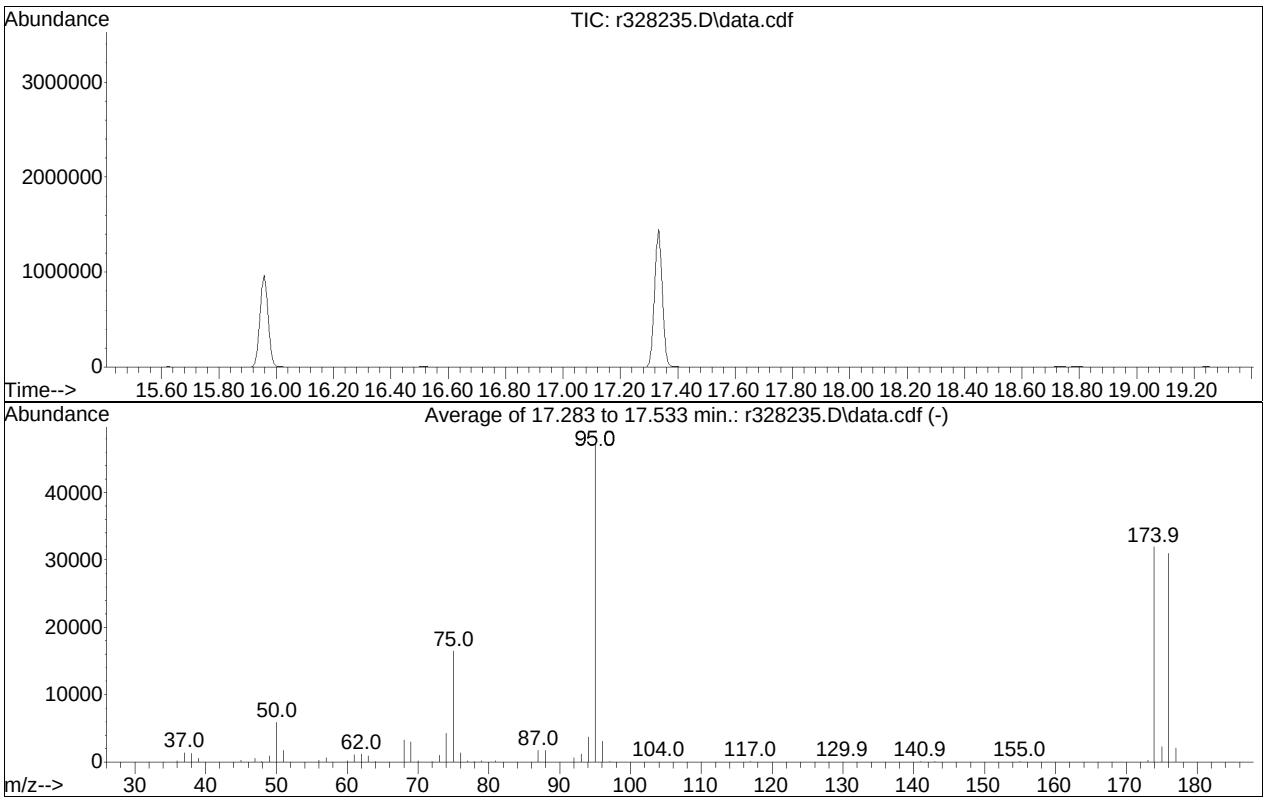
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
62)	C	bromoform	1.455	1.338	1.346	1.571	1.634	1.716	2.210	2.396	2.627	2.455	1.8747	26.41
63)	C	styrene	3.672	4.130	4.426	5.131	5.084	5.056	5.804	5.951	6.165	5.661	5.1080	16.13
64)	C	1,1,2,2-tetrachlor...	4.099	4.036	4.043	4.529	4.442	4.289	4.802	4.862	5.041	4.682	4.4824	8.07
65)	C	o-xylene	6.823	6.500	6.452	7.117	6.885	6.659	7.212	7.060	6.996	6.011	6.7718	5.46
66)		1,2,3-Trichloropro...	3.449	3.227	3.215	3.568	3.474	3.399	3.511	3.542	3.986	3.795	3.5164	6.68
67)	s	bromofluorobenzene				5.788	5.886	5.754	5.852	5.872	5.836	6.044	5.8617	1.58
68)	C	isopropylbenzene				8.939	8.629	8.347	8.489	8.460	9.288	8.052	8.6007	4.71
69)		Bromobenzene				4.750	4.682	4.550	4.662	4.689	5.257	4.860	4.7786	4.83
70)		4-ethyl toluene	6.656	7.002	7.284	8.478	8.484	8.474	9.452	9.292	9.638	8.318	8.3079	12.44
71)		1,3,5-trimethylben...	7.108	6.781	6.857	8.078	7.882	7.589	8.361	8.323	8.302	7.136	7.6415	8.24
72)		tert-butylbenzene				8.139	7.938	7.738	7.903	7.858	8.182	6.529	7.7552	7.26
73)		1,2,4-trimethylben...	6.681	6.746	6.801	7.767	7.640	7.549	8.432	8.303	7.956	6.294	7.4168	9.98
74)	C	Benzyl Chloride			2.203	2.927	3.205	3.666	4.863	5.345	5.859	5.530	4.1998	32.65#
75)		1,3-dichlorobenzene	3.560	3.398	3.771	4.414	4.829	4.873	5.532	5.526	5.462	4.711	4.6076	17.51
76)	C	1,4-dichlorobenzene	2.693	3.336	4.023	4.354	4.788	4.971	5.516	5.507	5.400	4.730	4.5318	20.90
77)		sec-butylbenzene				1.146	1.109	1.083	1.134	1.118	1.175	0.980	1.1064	5.66
78)		p-isopropyltoluene				9.804	9.579	9.353	9.541	9.365	9.788	7.535	9.2808	8.51
79)		1,2-dichlorobenzene	4.185	4.058	4.071	4.768	4.685	4.701	5.256	5.246	5.218	4.625	4.6812	9.96
80)		n-butylbenzene				8.416	8.580	8.480	8.755	8.689	9.316	8.174	8.6301	4.15
81)		1,2-dibromo-3-chlo...	1.164	1.402	1.407	1.542	1.688	1.733	1.889	1.965	2.219	1.980	1.6990	19.04
82)	C	1,2,4-trichloroben...		2.390	2.673	3.213	3.612	3.742	4.588	4.788	4.809	4.379	3.7993	23.89
83)		naphthalene		0.681	0.731	0.846	0.937	0.949	0.931	0.957	1.108	0.993	0.9035	14.60
84)		1,2,3-trichloroben...		2.688	2.797	3.214	3.514	3.600	3.556	3.699	4.338	3.959	3.4850	15.04
85)	C	hexachlorobutadiene		3.922	3.773	3.883	4.047	3.963	4.478	4.468	4.161	3.437	4.0148	8.19

(#) = Out of Range

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328235.D
Acq On : 30 Dec 2023 1:22 PM
Operator : AIRPIANO3:JMB
Sample : WG1874985-1,3,250,250
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 17:54:34 2024



Spectrum Information: Average of 17.283 to 17.533 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	12.4	5868	PASS
75	95	30	66	34.8	16510	PASS
95	95	100	100	100.0	47399	PASS
96	95	5	9	6.6	3120	PASS
173	174	0.00	2	0.8	246	PASS
174	95	50	120	67.5	31981	PASS
175	174	4	9	7.3	2319	PASS
176	174	93	101	96.8	30968	PASS
177	176	5	9	6.6	2034	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328236_Ev2.D
Acq On : 30 Dec 2023 1:58 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:18 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	174504	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 98.93%			
33) 1,4-difluorobenzene	11.227	114	557398	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 100.01%			
51) chlorobenzene-D5	15.950	54	80756	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 95.76%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	14.083	98	536	0.007	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.07%#			
67) bromofluorobenzene	17.333	95	716	0.015	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.15%#			
Target Compounds						Qvalue
2) propylene	3.840	41	464M6	0.039	ppbV	
3) dichlorodifluoromethane	3.912	85	579	0.026	ppbV	91
4) chloromethane	4.074	50	288	0.026	ppbV	92
5) Freon-114	4.182	85	571	0.021	ppbV #	93
6) vinyl chloride	4.296	62	316	0.021	ppbV #	86
7) 1,3-butadiene	4.440	54	207	0.020	ppbV	94
8) bromomethane	4.722	94	253	0.023	ppbV	96
9) chloroethane	4.914	64	173M4	0.022	ppbV	
10) ethanol	5.058	31	1415M4	0.172	ppbV	
11) vinyl bromide	5.293	106	253	0.021	ppbV	98
12) acrolein	5.430	56	147M4	0.022	ppbV	
13) acetone	5.587	43	2893	0.157	ppbV #	89
14) trichlorofluoromethane	5.747	101	478M4	0.021	ppbV	
15) isopropyl alcohol	5.873	45	1523	0.068	ppbV #	90
16) acrylonitrile	6.080	53	209	0.019	ppbV #	80
17) 1,1-dichloroethene	6.442	61	442	0.020	ppbV #	93
18) tertiary butyl alcohol	6.556	59	550	0.019	ppbV #	50
19) methylene chloride	6.580	49	3937	0.276	ppbV	100
20) 3-chloropropene	6.718	41	392	0.019	ppbV #	93
21) carbon disulfide	6.886	76	711	0.018	ppbV #	1
22) Freon 113	6.886	101	649	0.026	ppbV	96
23) trans-1,2-dichloroethene	7.633	61	407	0.018	ppbV	96
24) 1,1-dichloroethane	7.858	63	585	0.021	ppbV	89

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328236_Ev2.D
Acq On : 30 Dec 2023 1:58 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:18 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.975	73	665M4	0.018	ppbV		
26) vinyl acetate	8.058	43	646	0.023	ppbV	#	77
27) 2-butanone	8.367	43	504	0.016	ppbV	#	80
28) cis-1,2-dichloroethene	8.808	61	422	0.020	ppbV		99
29) Ethyl Acetate	0.000		0	N.D.	d		
30) chloroform	9.150	83	496	0.022	ppbV	#	94
31) Tetrahydrofuran	9.658	42	363	0.019	ppbV	#	86
32) 1,2-dichloroethane	9.992	62	388	0.023	ppbV	#	69
34) hexane	9.067	57	625	0.023	ppbV	#	44
36) 1,1,1-trichloroethane	10.275	97	409M4	0.019	ppbV		
37) benzene	10.807	78	1596	0.033	ppbV	#	92
38) carbon tetrachloride	10.973	117	311	0.018	ppbV	#	92
39) cyclohexane	11.113	56	629	0.022	ppbV	#	83
40) Dibromomethane	11.720	93	352	0.027	ppbV	#	84
41) 1,2-dichloropropane	11.753	63	416	0.021	ppbV	#	92
42) bromodichloromethane	11.987	83	387	0.017	ppbV	#	94
43) 1,4-dioxane	12.080	88	149M4	0.013	ppbV		
44) trichloroethene	12.033	130	342	0.017	ppbV	#	88
45) 2,2,4-trimethylpentane	12.080	57	2547	0.029	ppbV	#	93
46) heptane	12.393	43	639	0.021	ppbV	#	94
47) cis-1,3-dichloropropene	13.058	75	331	0.014	ppbV	#	80
48) 4-methyl-2-pentanone	13.133	43	533	0.015	ppbV		93
49) trans-1,3-dichloropropene	13.708		0	N.D.			
50) 1,1,2-trichloroethane	13.883	97	328M4	0.018	ppbV		
52) toluene	14.192	91	1187	0.021	ppbV		99
54) 2-hexanone	0.000		0	N.D.	d		
55) dibromochloromethane	14.642	129	293	0.015	ppbV	#	84
56) 1,2-dibromoethane	14.892	107	367	0.015	ppbV		97
57) tetrachloroethene	15.350	166	506	0.022	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.983	131	324	0.020	ppbV	#	90
59) chlorobenzene	15.992	112	813	0.019	ppbV		93
60) ethylbenzene	16.342	91	1248	0.018	ppbV		98
61) m+p-xylene	16.517	91	1937	0.034	ppbV		96
62) bromoform	16.583	173	235M4	0.013	ppbV		
63) styrene	16.842	104	593	0.013	ppbV	#	86
64) 1,1,2,2-tetrachloroethane	16.933	83	662	0.017	ppbV		97
65) o-xylene	16.933	91	1102	0.019	ppbV		96
66) 1,2,3-Trichloropropane	17.050	75	557	0.020	ppbV		97
68) isopropylbenzene	17.442	105	1280	0.019	ppbV		97
69) Bromobenzene	17.525	77	565	0.015	ppbV		90

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328236_Ev2.D
Acq On : 30 Dec 2023 1:58 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:18 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:47 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

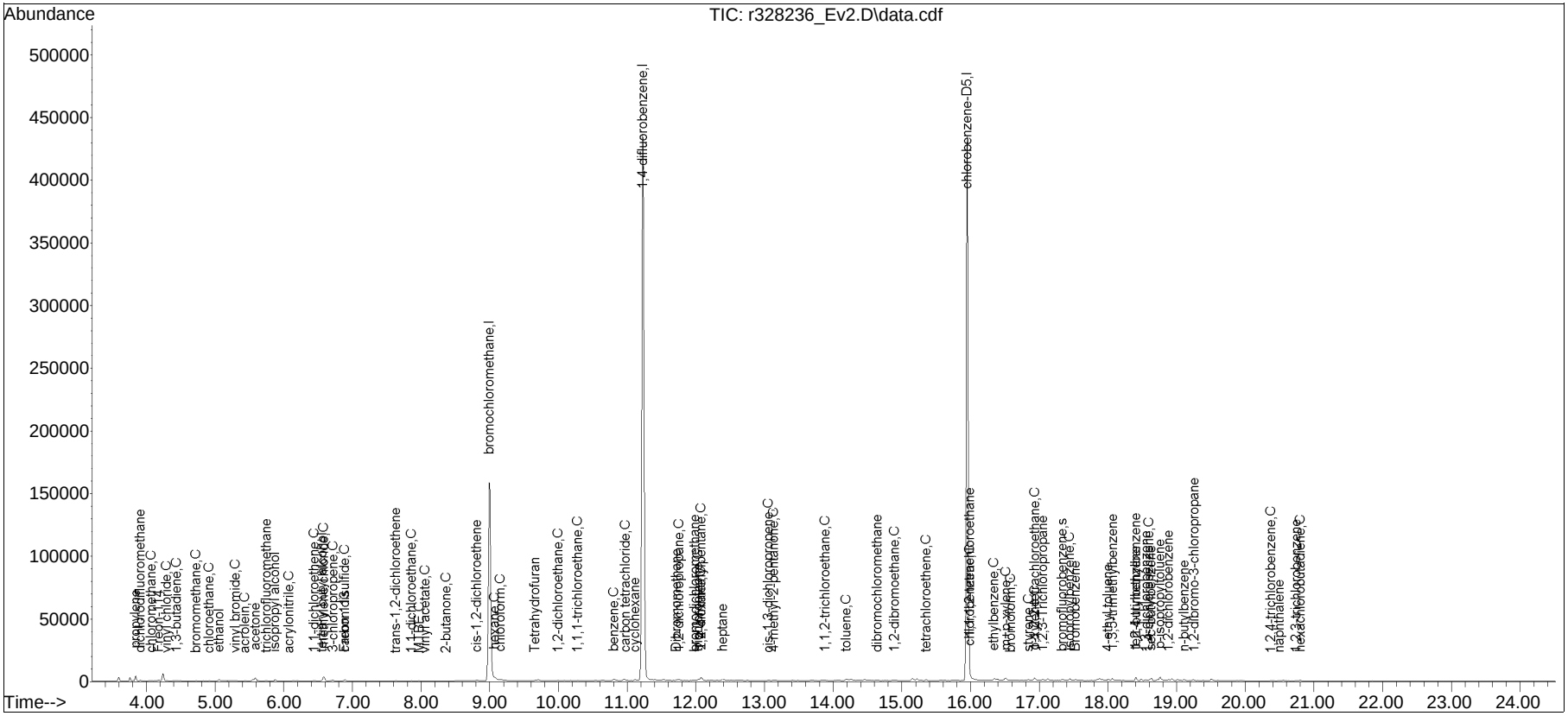
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.000	105	1075	0.014	ppbV	#	87
71) 1,3,5-trimethylbenzene	18.067	105	1148	0.017	ppbV	#	93
72) tert-butylbenzene	18.408	119	1151	0.018	ppbV	#	89
73) 1,2,4-trimethylbenzene	18.408	105	1079	0.016	ppbV		87
74) Benzyl Chloride	18.542		0	N.D.			
75) 1,3-dichlorobenzene	18.550	146	575	0.013	ppbV	#	82
76) 1,4-dichlorobenzene	18.600	146	479M4	0.011	ppbV		
77) sec-butylbenzene	18.625	105	1617	0.018	ppbV		95
78) p-isopropyltoluene	18.758	119	1480	0.019	ppbV		96
79) 1,2-dichlorobenzene	18.883	146	676	0.016	ppbV	#	91
80) n-butylbenzene	19.108	91	998	0.014	ppbV		92
81) 1,2-dibromo-3-chloropr...	19.258	75	188	0.012	ppbV		90
82) 1,2,4-trichlorobenzene	20.375	180	383	0.010	ppbV	#	74
83) naphthalene	20.492	128	858	0.011	ppbV	#	80
84) 1,2,3-trichlorobenzene	20.742	180	342	0.012	ppbV	#	73
85) hexachlorobutadiene	20.800	225	565	0.016	ppbV	#	85

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328236_Ev2.D
Acq On : 30 Dec 2023 1:58 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.02
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:18 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:47 2023
Response via : Initial Calibration

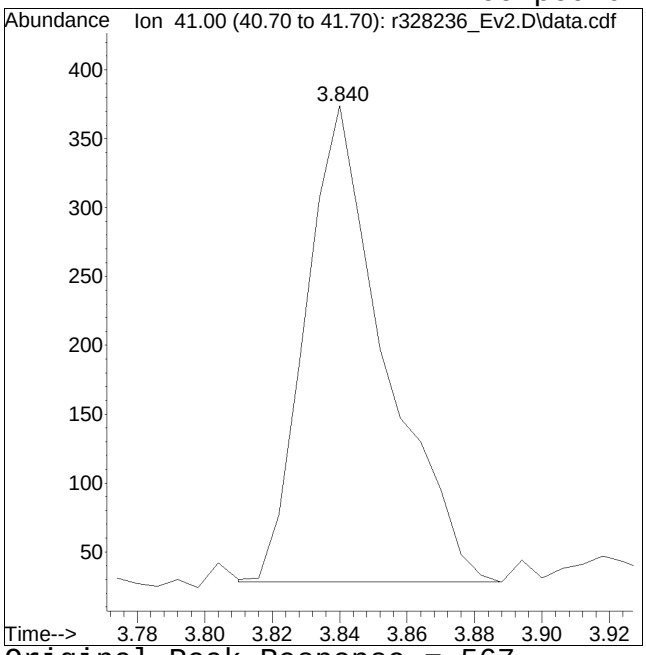


Manual Integration Report

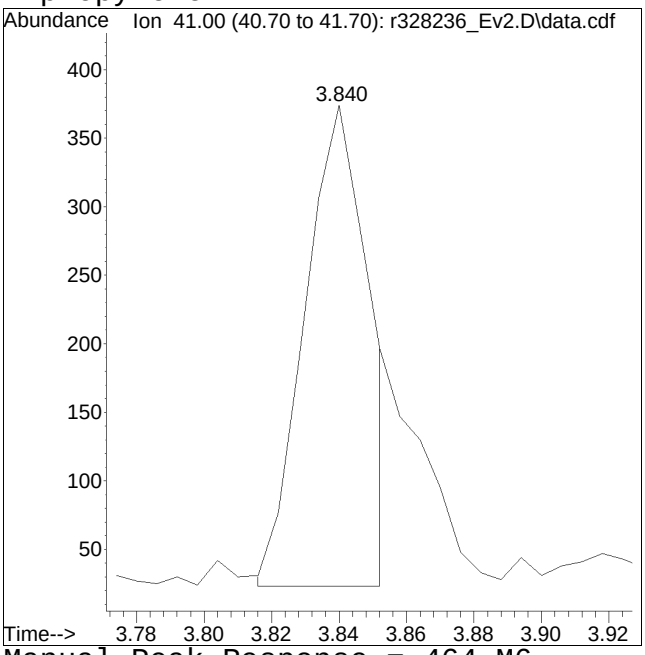
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328236_Ev2.D
Date Inj'd : 12/30/2020 0:1: 8
Sample : ITO15-SIMSTD0.02

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 567



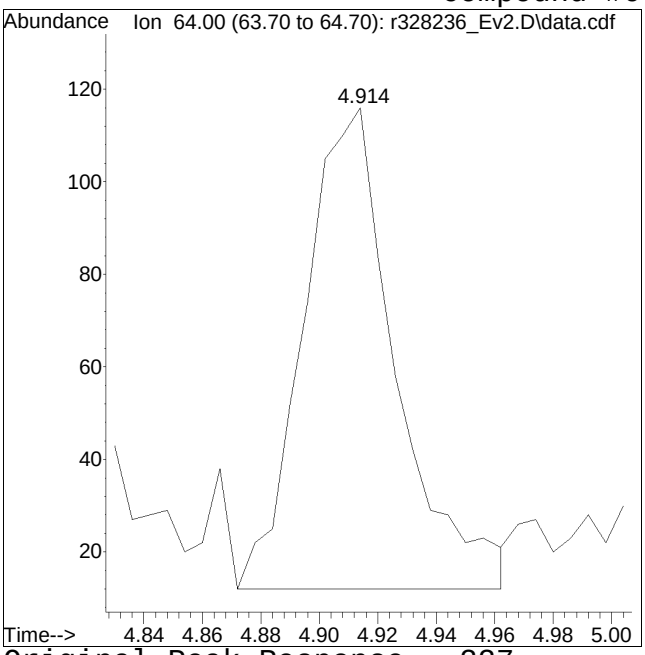
Manual Peak Response = 464 M6

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

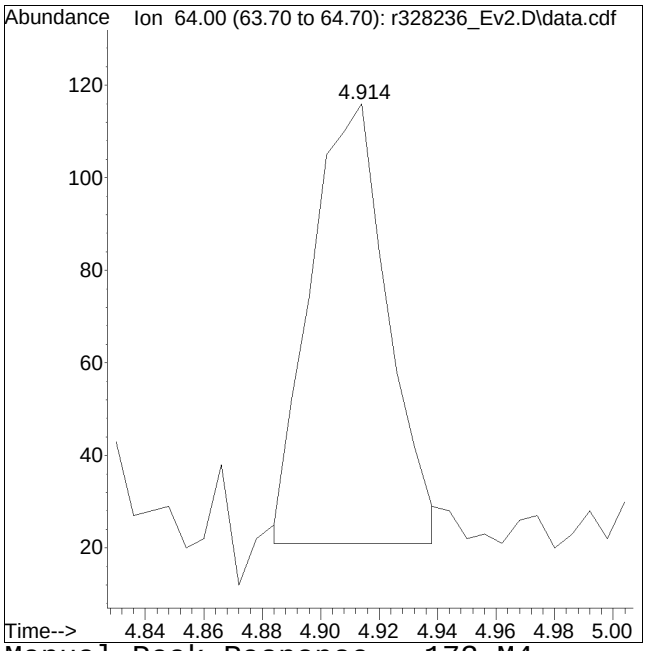
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #9: chloroethane



Original Peak Response = 227



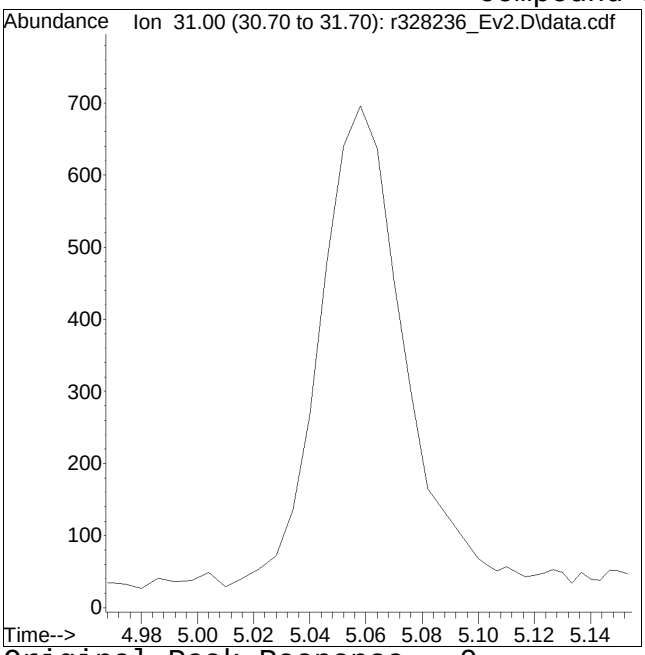
Manual Peak Response = 173 M4

M4 = Poor automated baseline construction.

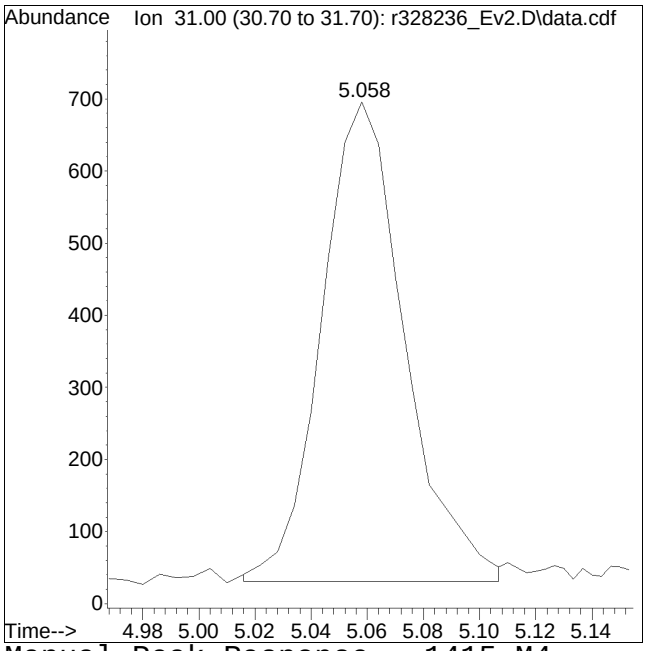
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #10: ethanol



Original Peak Response = 0



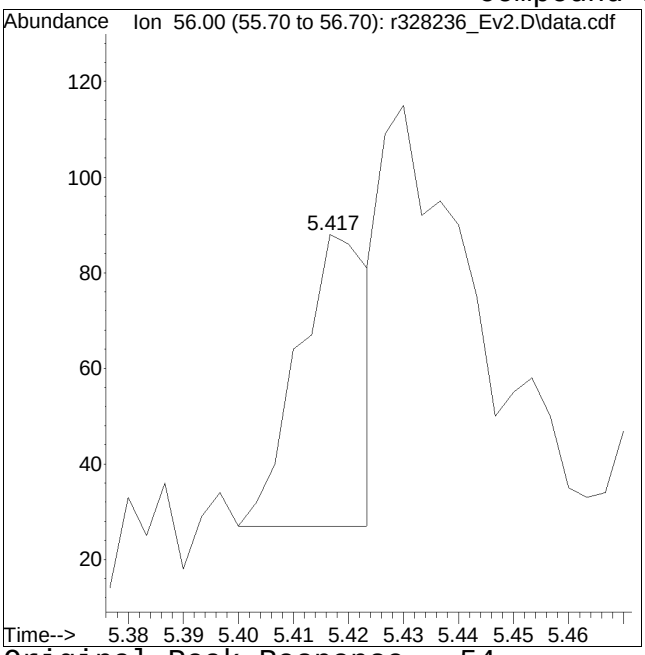
Manual Peak Response = 1415 M4

M4 = Poor automated baseline construction.

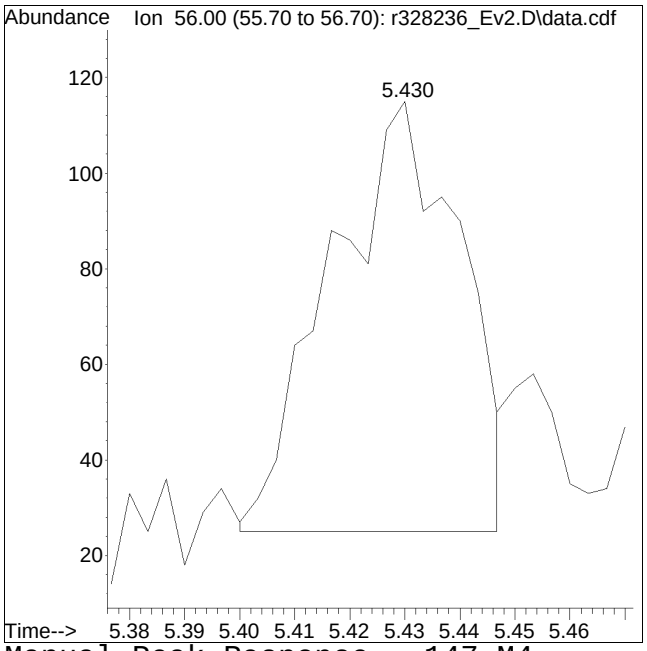
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #12: acrolein



Original Peak Response = 54



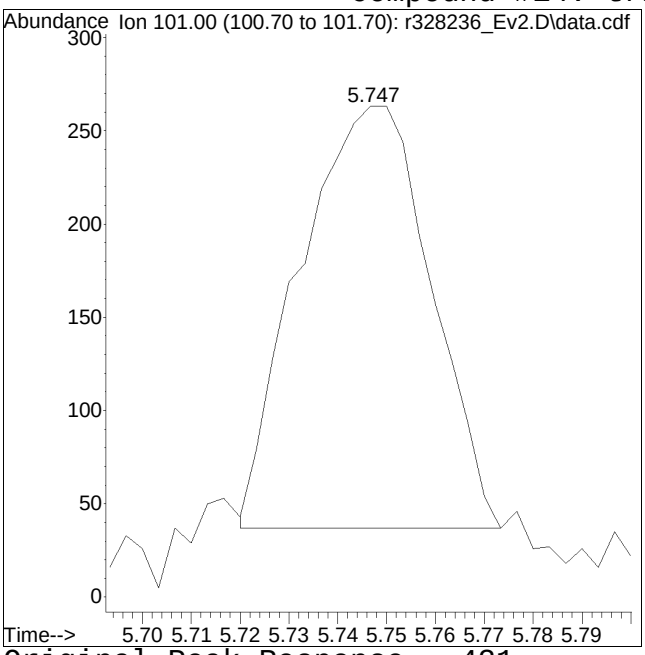
Manual Peak Response = 147 M4

M4 = Poor automated baseline construction.

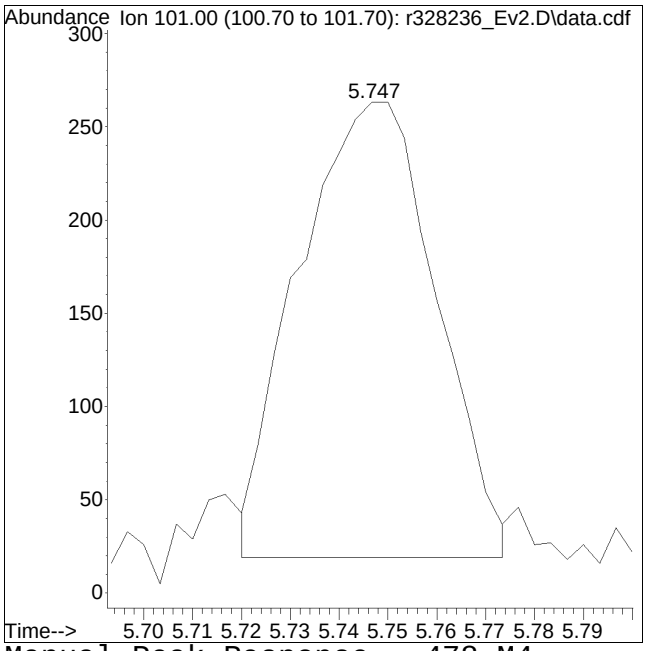
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #14: trichlorofluoromethane



Original Peak Response = 421



Manual Peak Response = 478 M4

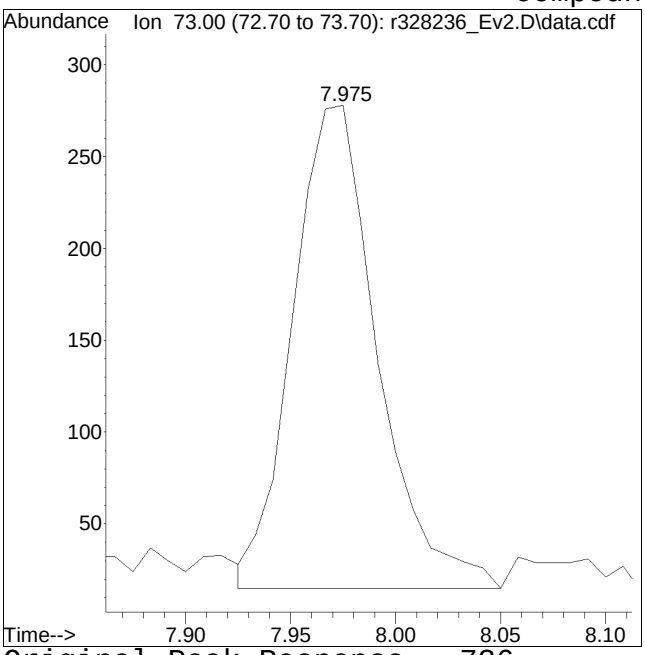
M4 = Poor automated baseline construction.

Manual Integration Report

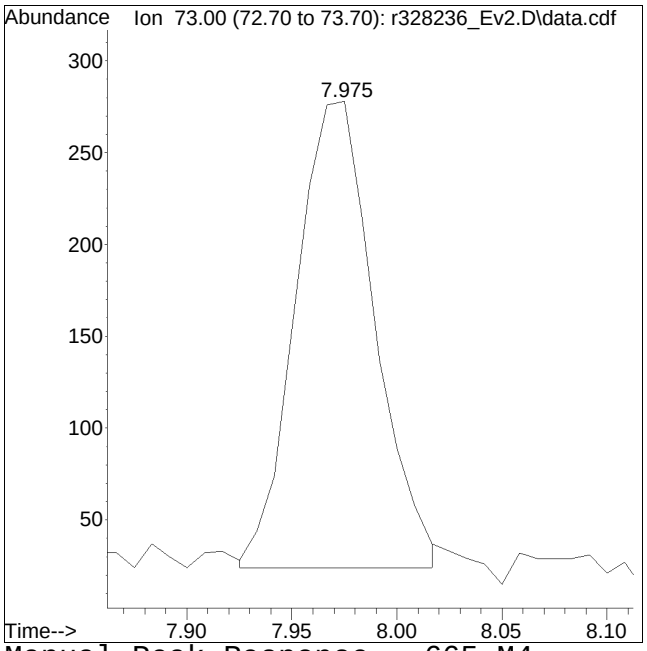
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328236_Ev2.D
Date Inj'd : 12/30/2020 0:1: 8
Sample : ITO15-SIMSTD0.02

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #25: MTBE



Original Peak Response = 736



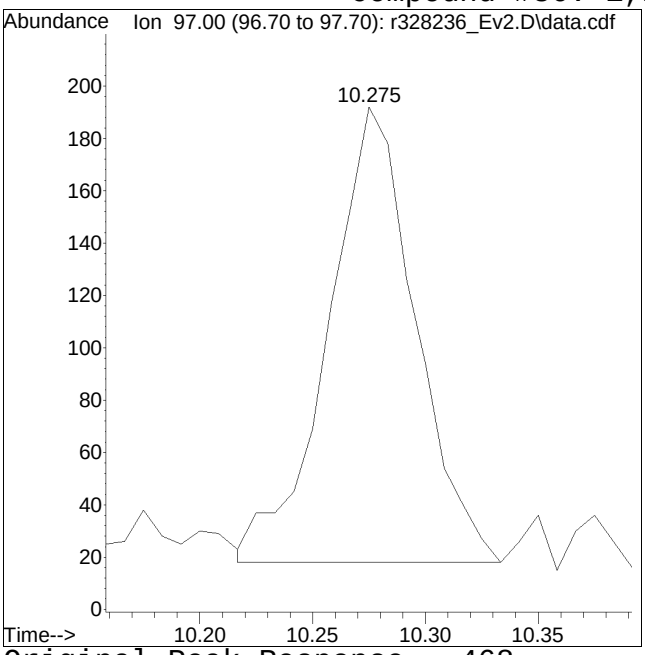
Manual Peak Response = 665 M4

M4 = Poor automated baseline construction.

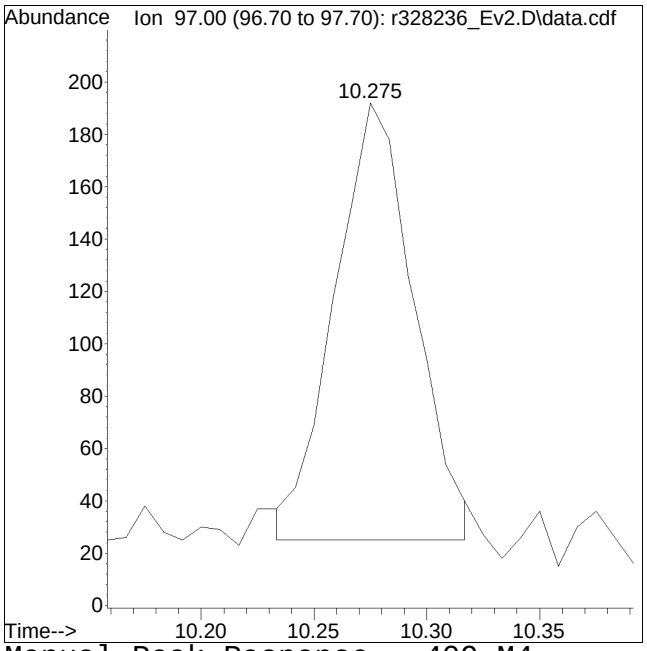
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #36: 1,1,1-trichloroethane



Original Peak Response = 468



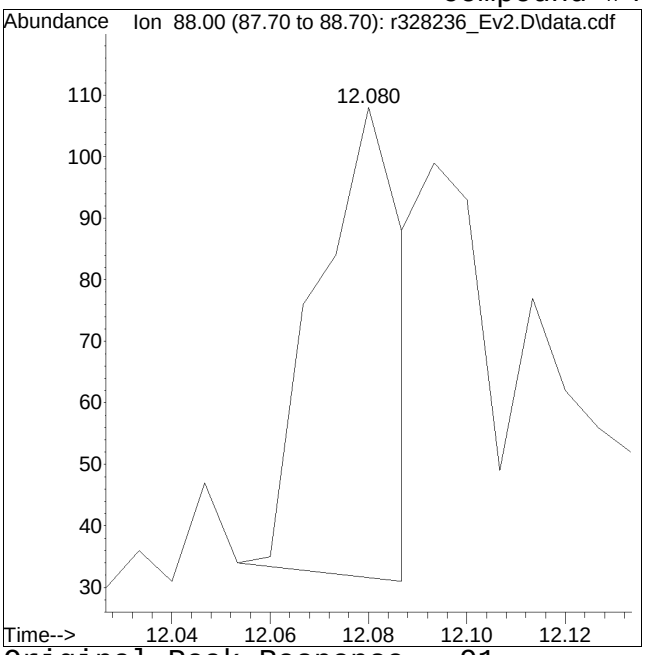
Manual Peak Response = 409 M4

M4 = Poor automated baseline construction.

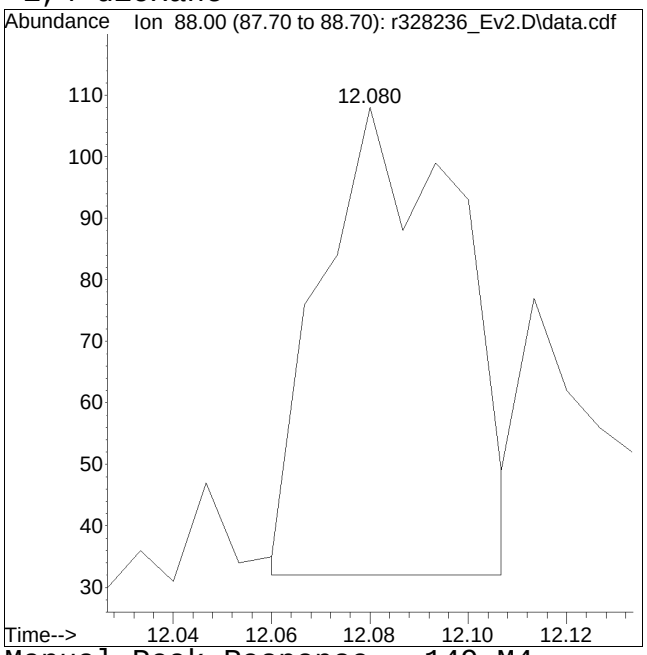
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #43: 1,4-dioxane



Original Peak Response = 91



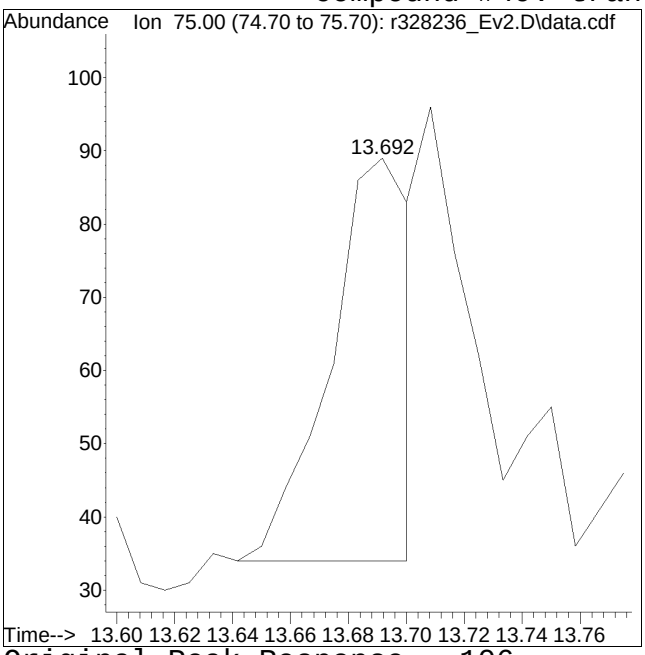
Manual Peak Response = 149 M4

M4 = Poor automated baseline construction.

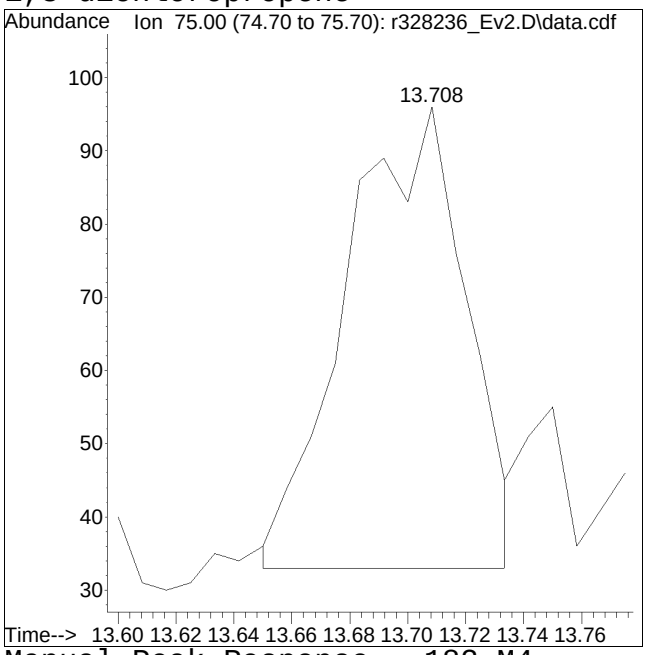
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 106



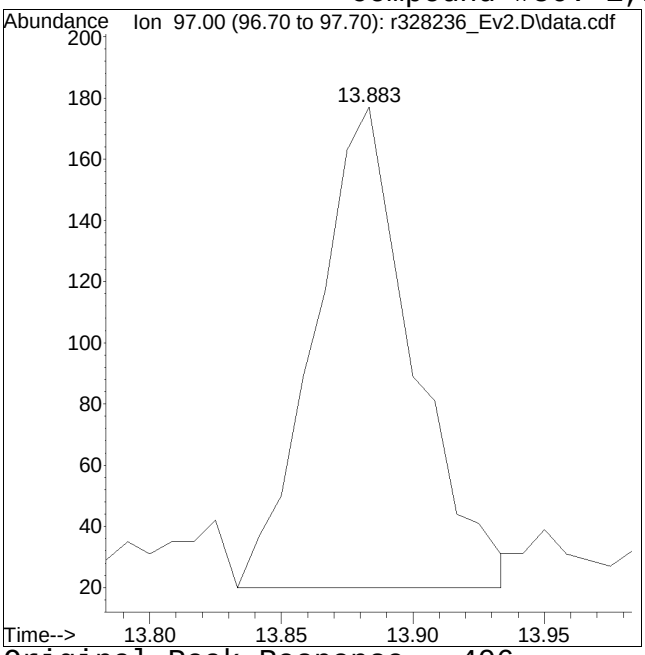
Manual Peak Response = 182 M4

M4 = Poor automated baseline construction.

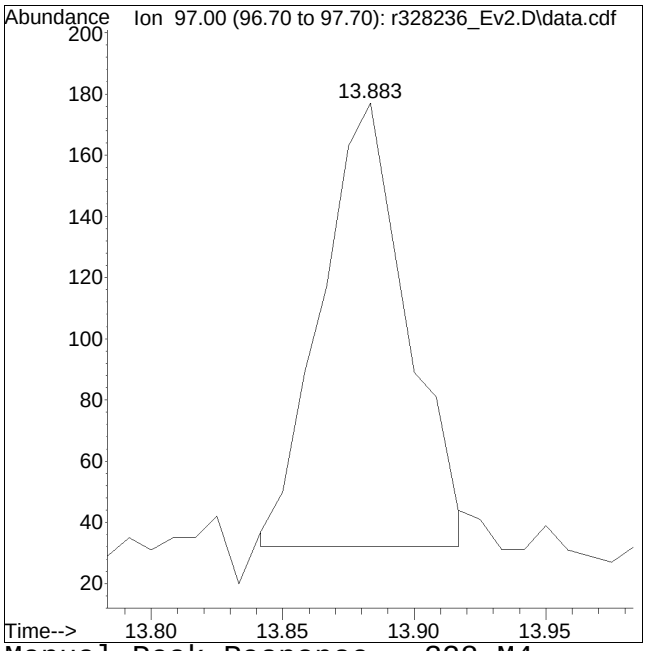
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #50: 1,1,2-trichloroethane



Original Peak Response = 406



Manual Peak Response = 328 M4

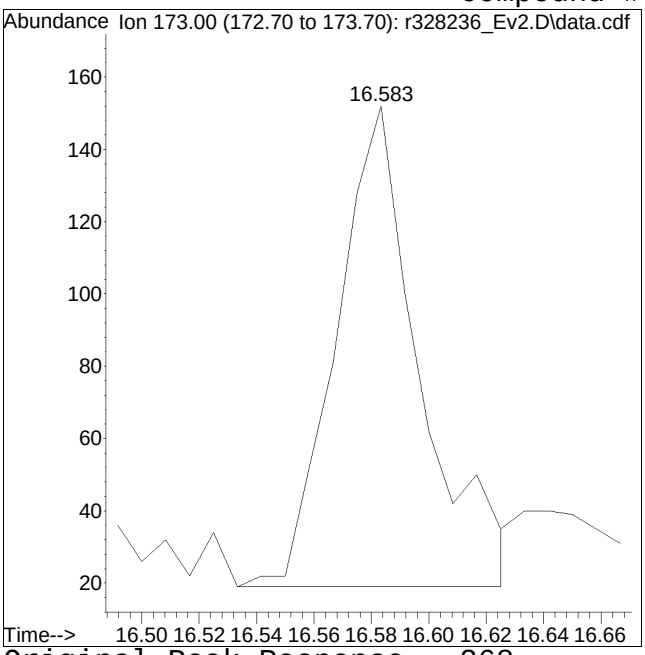
M4 = Poor automated baseline construction.

Manual Integration Report

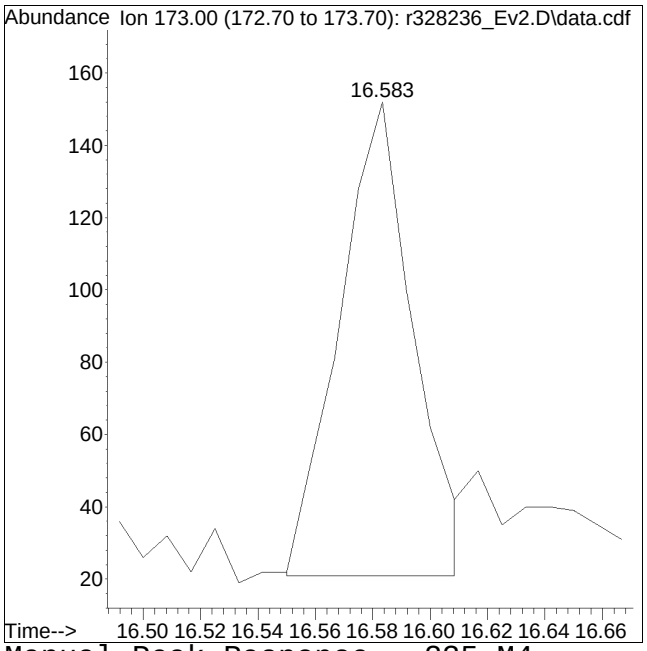
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328236_Ev2.D
Date Inj'd : 12/30/2020 0:1: 8
Sample : ITO15-SIMSTD0.02

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #62: bromoform



Original Peak Response = 268



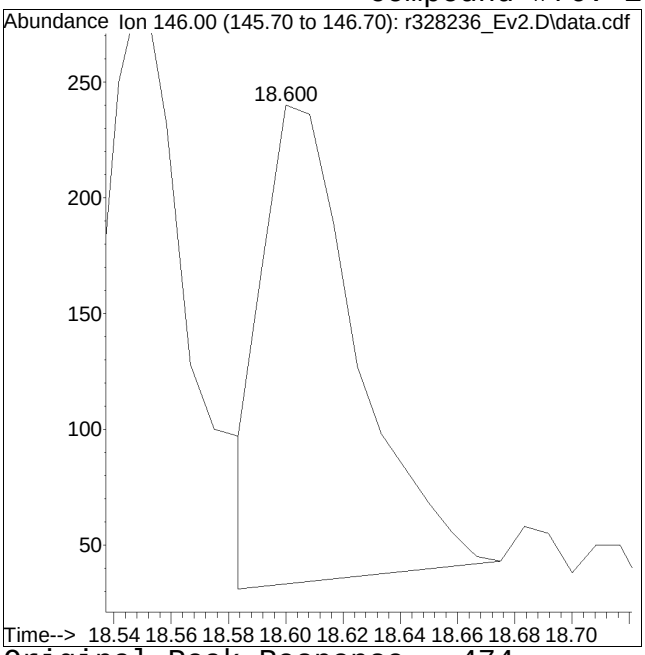
Manual Peak Response = 235 M4

M4 = Poor automated baseline construction.

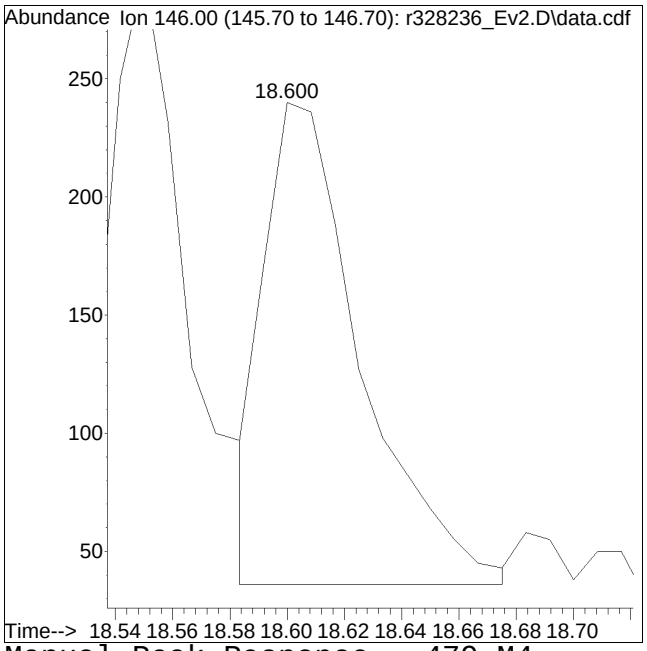
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328236_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:1: 8 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 12/31/2023 10:17 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 474



Manual Peak Response = 479 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328237_Ev2.D
Acq On : 30 Dec 2023 2:35 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:25 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	171294	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 97.11%			
33) 1,4-difluorobenzene	11.227	114	547938	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 98.31%			
51) chlorobenzene-D5	15.950	54	80579	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 95.55%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	14.083	98	382	0.005	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.05%#			
67) bromofluorobenzene	17.333	95	488	0.010	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.10%#			
Target Compounds						Qvalue
2) propylene	3.840	41	915M6	0.077	ppbV	
3) dichlorodifluoromethane	3.906	85	1345	0.061	ppbV	100
4) chloromethane	4.068	50	763	0.071	ppbV	90
5) Freon-114	4.176	85	1329	0.049	ppbV	99
6) vinyl chloride	4.296	62	713	0.047	ppbV	91
7) 1,3-butadiene	4.440	54	502	0.049	ppbV	92
8) bromomethane	4.722	94	580	0.054	ppbV	99
9) chloroethane	4.908	64	401	0.053	ppbV #	74
10) ethanol	5.052	31	3374	0.417	ppbV	97
11) vinyl bromide	5.283	106	572	0.049	ppbV	92
12) acrolein	5.420	56	261M4	0.040	ppbV	
13) acetone	5.577	43	6954M4	0.384	ppbV	
14) trichlorofluoromethane	5.743	101	1164	0.052	ppbV	98
15) isopropyl alcohol	5.863	45	3155	0.143	ppbV #	93
16) acrylonitrile	6.080	53	489	0.045	ppbV	91
17) 1,1-dichloroethene	6.442	61	1077	0.049	ppbV	97
18) tertiary butyl alcohol	6.538	59	1395	0.050	ppbV	97
19) methylene chloride	6.580	49	8940	0.638	ppbV	99
20) 3-chloropropene	6.712	41	930	0.047	ppbV	94
21) carbon disulfide	6.886	76	1823	0.048	ppbV #	36
22) Freon 113	6.886	101	1409	0.058	ppbV	97
23) trans-1,2-dichloroethene	7.633	61	1060	0.048	ppbV	98
24) 1,1-dichloroethane	7.858	63	1406	0.050	ppbV	94

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328237_Ev2.D
Acq On : 30 Dec 2023 2:35 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:25 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.958	73	1696	0.048	ppbV	#	80
26) vinyl acetate	8.058	43	1499	0.054	ppbV		99
27) 2-butanone	8.350	43	1330	0.044	ppbV	#	91
28) cis-1,2-dichloroethene	8.808	61	979	0.047	ppbV		97
29) Ethyl Acetate	9.117	61	259	0.047	ppbV	#	20
30) chloroform	9.150	83	1094	0.049	ppbV	#	94
31) Tetrahydrofuran	9.650	42	917	0.050	ppbV		93
32) 1,2-dichloroethane	9.992	62	821	0.049	ppbV	#	89
34) hexane	9.058	57	1481	0.055	ppbV	#	49
36) 1,1,1-trichloroethane	10.275	97	1066	0.051	ppbV	#	86
37) benzene	10.800	78	2936	0.062	ppbV		93
38) carbon tetrachloride	10.973	117	787	0.045	ppbV		95
39) cyclohexane	11.120	56	1387	0.049	ppbV		95
40) Dibromomethane	11.720	93	690	0.053	ppbV	#	92
41) 1,2-dichloropropane	11.760	63	856	0.043	ppbV		94
42) bromodichloromethane	11.980	83	954	0.044	ppbV	#	97
43) 1,4-dioxane	12.073	88	495	0.045	ppbV	#	35
44) trichloroethene	12.033	130	850M4	0.044	ppbV		
45) 2,2,4-trimethylpentane	12.080	57	6125	0.072	ppbV		97
46) heptane	12.393	43	1529	0.050	ppbV	#	92
47) cis-1,3-dichloropropene	13.058	75	935	0.039	ppbV	#	90
48) 4-methyl-2-pentanone	13.125	43	1302	0.037	ppbV	#	90
49) trans-1,3-dichloropropene	13.692	75	485M4	0.025	ppbV		
50) 1,1,2-trichloroethane	13.883	97	818	0.045	ppbV		97
52) toluene	14.192	91	2805	0.050	ppbV		99
54) 2-hexanone	14.517	43	699M4	0.021	ppbV		
55) dibromochloromethane	14.642	129	721	0.037	ppbV	#	96
56) 1,2-dibromoethane	14.892	107	1057	0.043	ppbV		96
57) tetrachloroethene	15.350	166	1131	0.050	ppbV		94
58) 1,1,1,2-tetrachloroethane	15.975	131	779	0.047	ppbV		93
59) chlorobenzene	15.992	112	1924	0.046	ppbV		97
60) ethylbenzene	16.342	91	3284	0.047	ppbV		98
61) m+p-xylene	16.508	91	5163	0.090	ppbV		100
62) bromoform	16.583	173	539	0.030	ppbV		91
63) styrene	16.842	104	1664	0.036	ppbV		96
64) 1,1,2,2-tetrachloroethane	16.933	83	1626	0.042	ppbV		98
65) o-xylene	16.925	91	2619	0.045	ppbV		95
66) 1,2,3-Trichloropropane	17.050	75	1300	0.046	ppbV		97
68) isopropylbenzene	17.442	105	3133	0.046	ppbV		98
69) Bromobenzene	17.525	77	1621	0.043	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328237_Ev2.D
Acq On : 30 Dec 2023 2:35 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:25 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

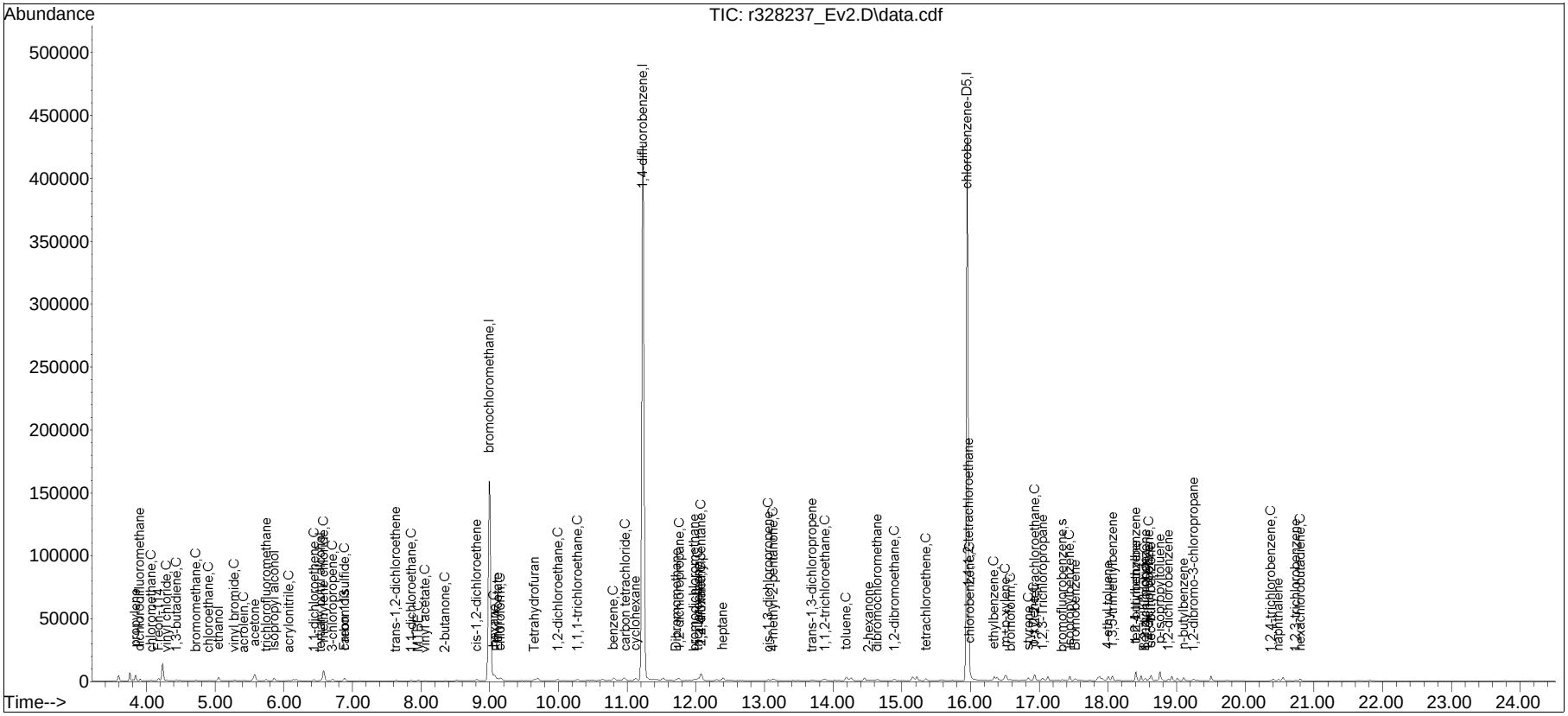
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.000	105	2821	0.037	ppbV #	97
71) 1,3,5-trimethylbenzene	18.067	105	2732	0.041	ppbV #	97
72) tert-butylbenzene	18.408	119	2893	0.045	ppbV	93
73) 1,2,4-trimethylbenzene	18.408	105	2718	0.040	ppbV	95
74) Benzyl Chloride	18.533	91	832	0.021	ppbV	93
75) 1,3-dichlorobenzene	18.542	146	1369	0.031	ppbV #	88
76) 1,4-dichlorobenzene	18.600	146	1344M4	0.030	ppbV	
77) sec-butylbenzene	18.625	105	4062	0.044	ppbV	98
78) p-isopropyltoluene	18.758	119	3486	0.045	ppbV	95
79) 1,2-dichlorobenzene	18.883	146	1635	0.039	ppbV	99
80) n-butylbenzene	19.100	91	2655	0.038	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.250	75	565	0.037	ppbV #	87
82) 1,2,4-trichlorobenzene	20.375	180	963	0.026	ppbV	95
83) naphthalene	20.483	128	2744	0.037	ppbV #	94
84) 1,2,3-trichlorobenzene	20.733	180	1083	0.038	ppbV	91
85) hexachlorobutadiene	20.800	225	1580	0.044	ppbV	98

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328237_Ev2.D
Acq On : 30 Dec 2023 2:35 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.05
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:25 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

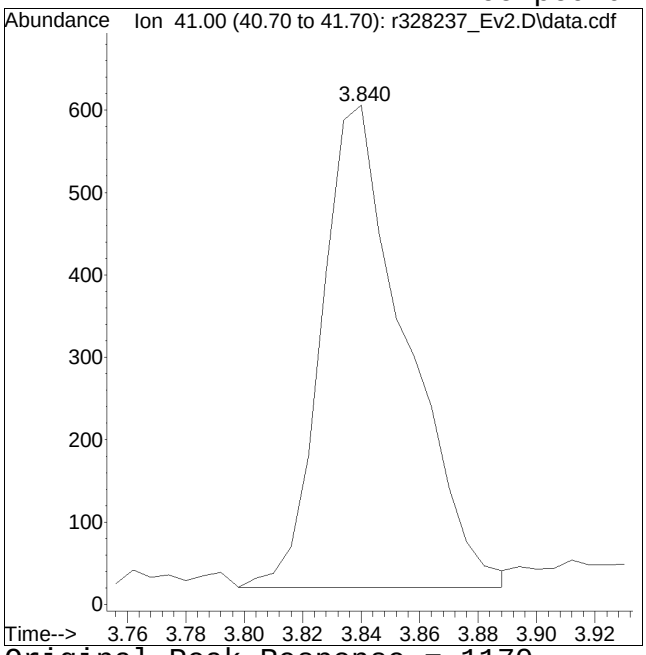


Manual Integration Report

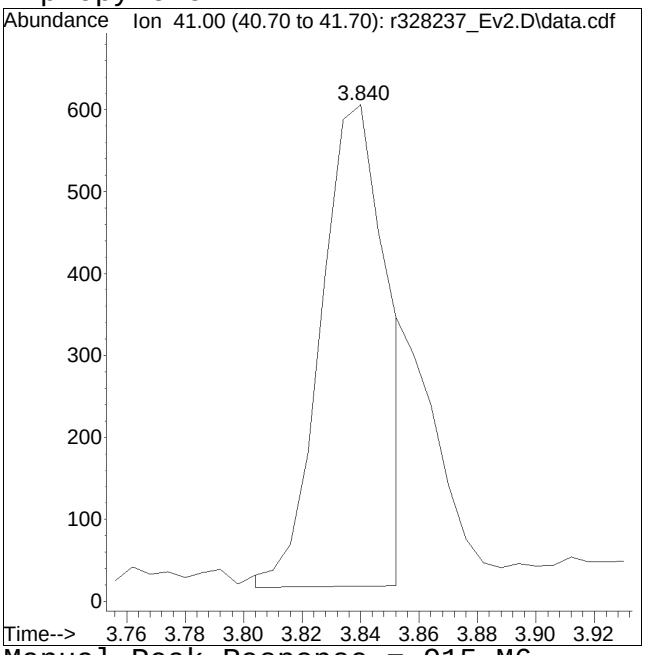
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328237_Ev2.D
Date Inj'd : 12/30/2020 0:2: 5
Sample : ITO15-SIMSTD0.05

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 1170



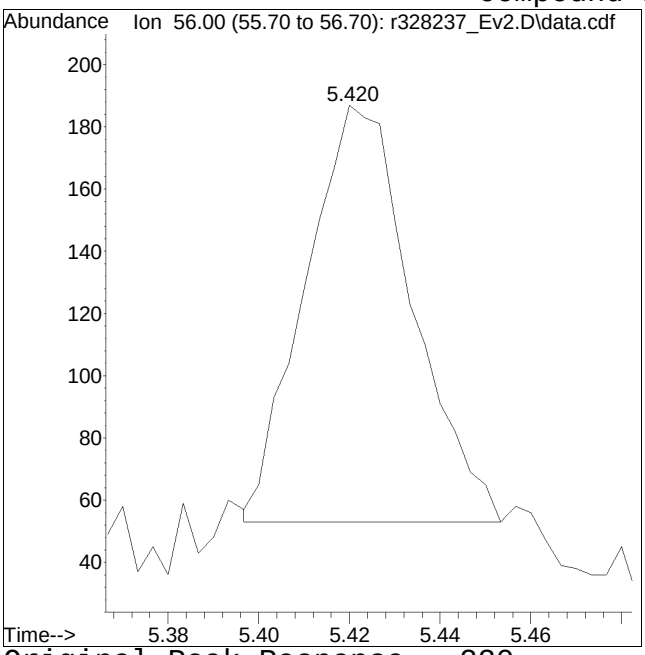
Manual Peak Response = 915 M6

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

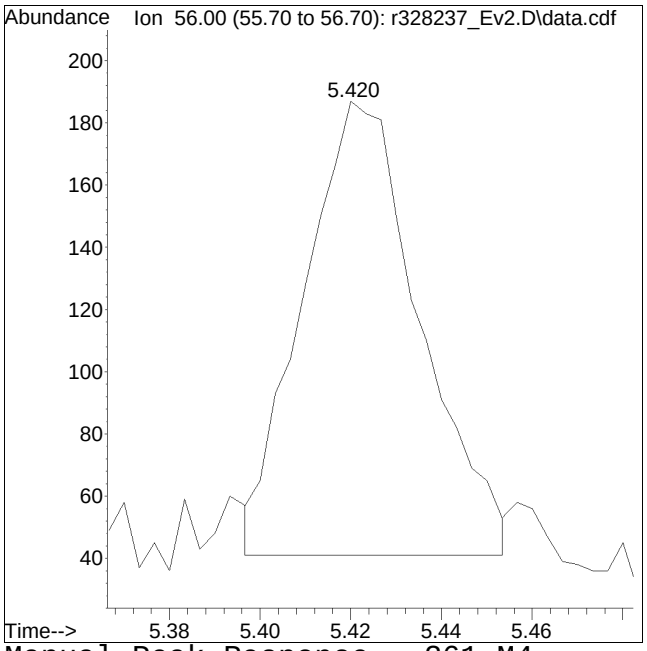
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328237_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 12/31/2023 10:17 am

Compound #12: acrolein



Original Peak Response = 220



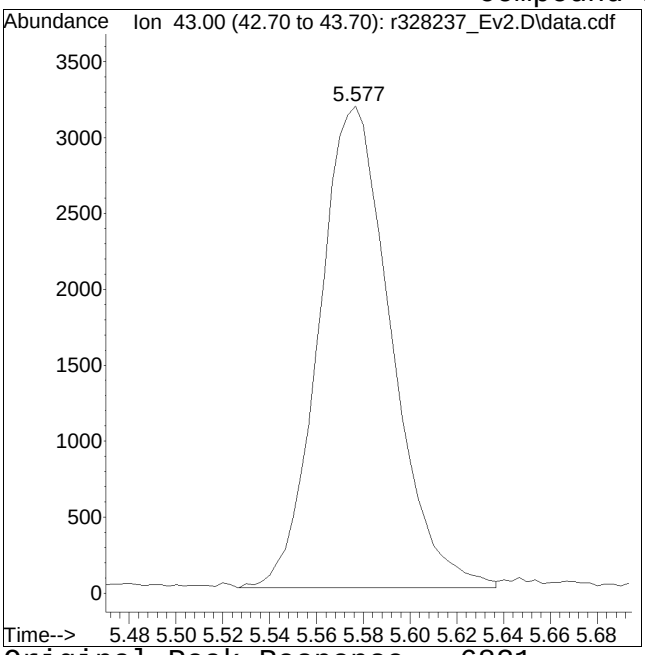
Manual Peak Response = 261 M4

M4 = Poor automated baseline construction.

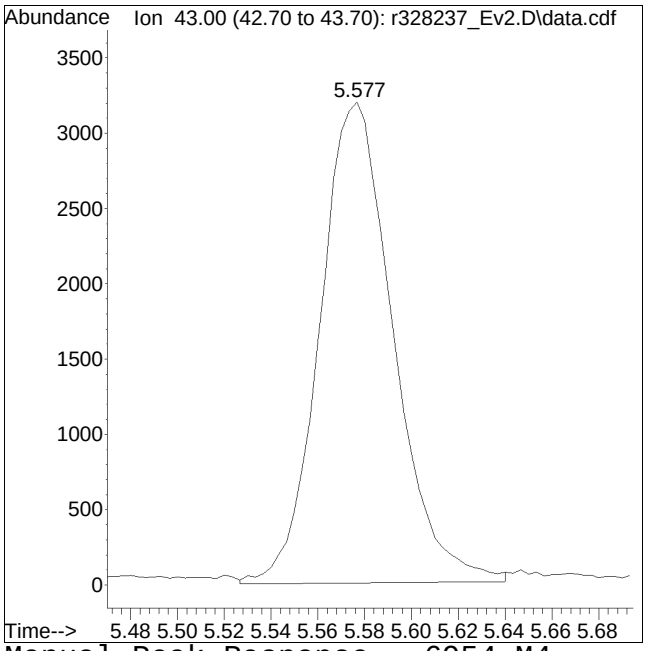
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328237_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 12/31/2023 10:17 am

Compound #13: acetone



Original Peak Response = 6821



Manual Peak Response = 6954 M4

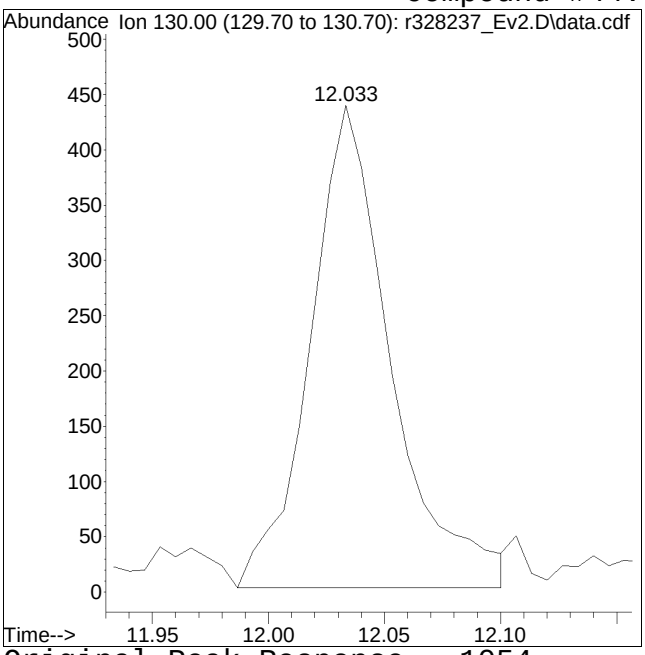
M4 = Poor automated baseline construction.

Manual Integration Report

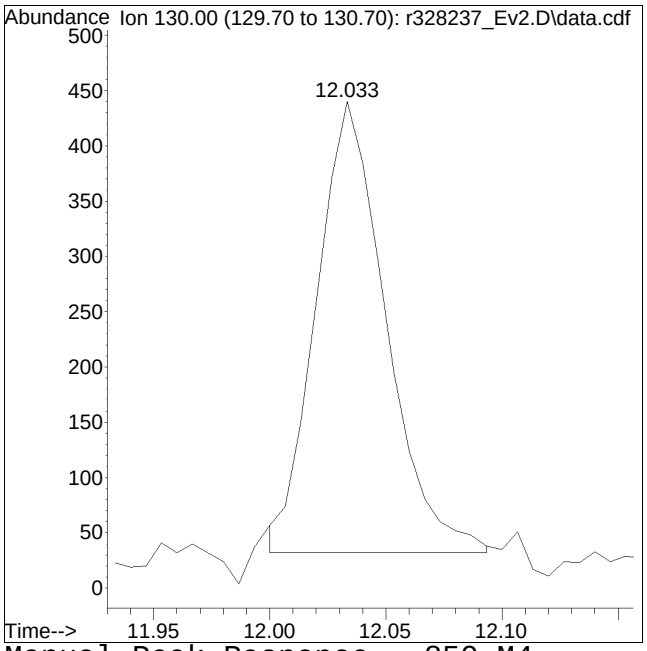
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328237_Ev2.D
Date Inj'd : 12/30/2020 0:2: 5
Sample : ITO15-SIMSTD0.05

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #44: trichloroethene



Original Peak Response = 1054



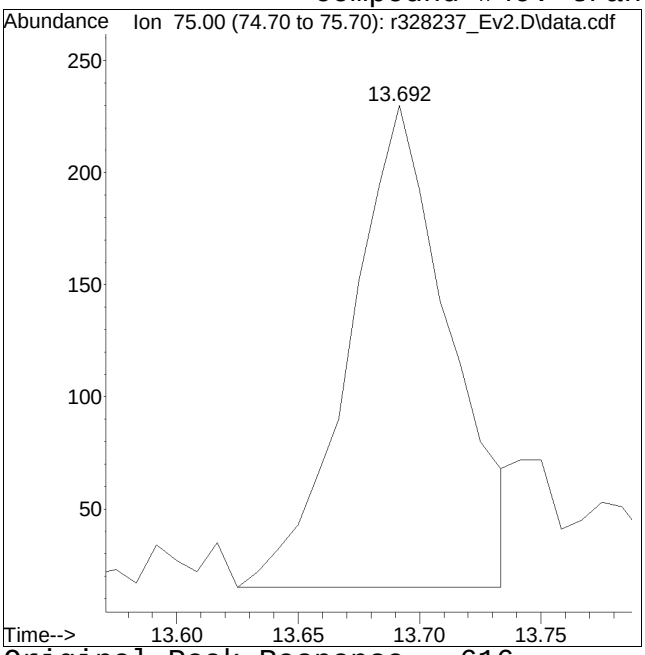
Manual Peak Response = 850 M4

M4 = Poor automated baseline construction.

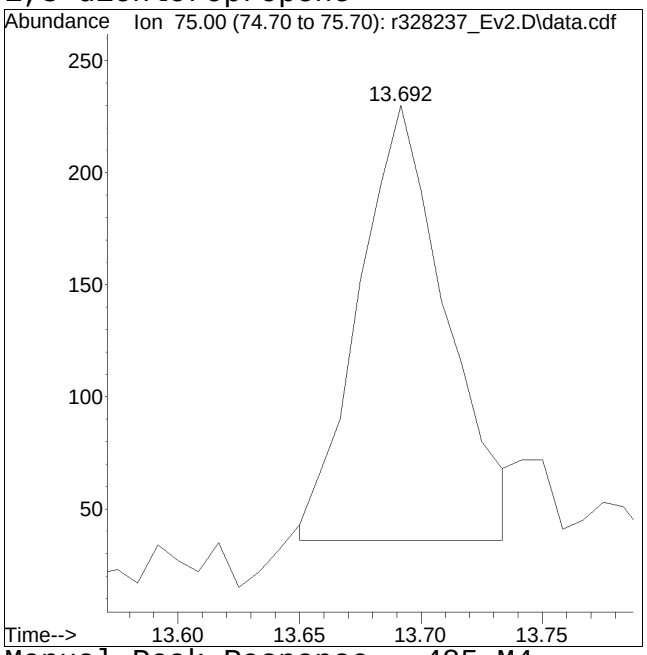
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328237_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 12/31/2023 10:17 am

Compound #49: trans-1,3-dichloropropene



Original Peak Response = 616



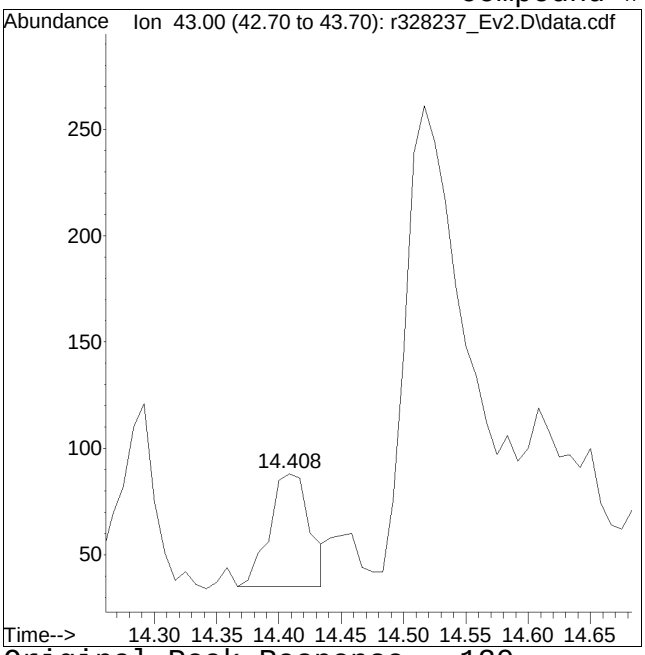
Manual Peak Response = 485 M4

M4 = Poor automated baseline construction.

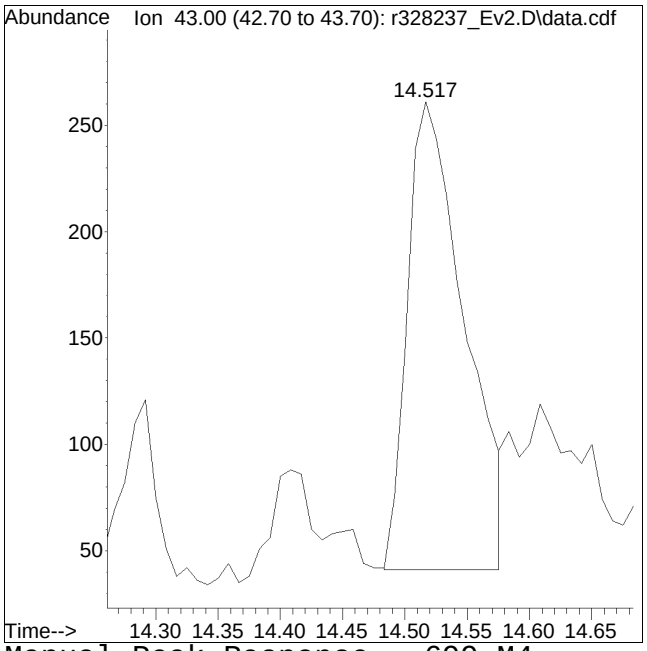
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328237_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 12/31/2023 10:17 am

Compound #54: 2-hexanone



Original Peak Response = 120



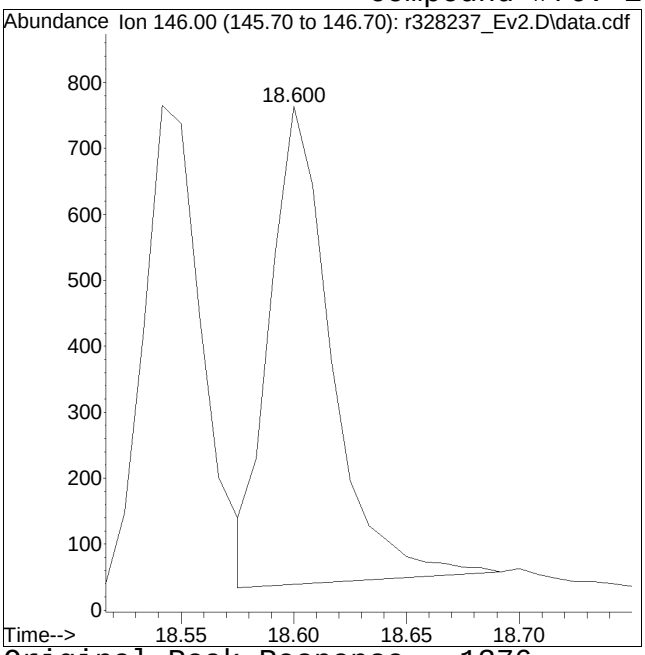
Manual Peak Response = 699 M4

M4 = Poor automated baseline construction.

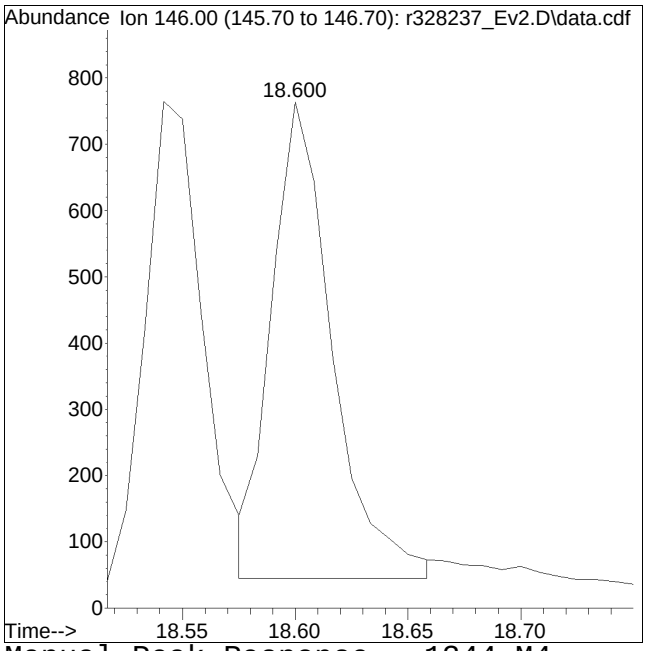
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328237_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:2: 5 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 12/31/2023 10:17 am

Compound #76: 1,4-dichlorobenzene



Original Peak Response = 1376



Manual Peak Response = 1344 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328238_Ev2.D
Acq On : 30 Dec 2023 3:14 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:31 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	170296	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 96.54%			
33) 1,4-difluorobenzene	11.227	114	542452	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 97.33%			
51) chlorobenzene-D5	15.950	54	80404	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 95.35%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.983	65	80	0.003	ppbV	0.13
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.03%#			
53) toluene-D8	14.075	98	353	0.005	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.05%#			
67) bromofluorobenzene	17.333	95	506	0.011	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.11%#			
Target Compounds						Qvalue
2) propylene	3.840	41	1537M6	0.131	ppbV	
3) dichlorodifluoromethane	3.912	85	2661	0.121	ppbV	100
4) chloromethane	4.074	50	1409	0.133	ppbV	95
5) Freon-114	4.176	85	2597	0.096	ppbV	97
6) vinyl chloride	4.296	62	1419	0.095	ppbV	98
7) 1,3-butadiene	4.440	54	971	0.096	ppbV	93
8) bromomethane	4.722	94	1059	0.100	ppbV	97
9) chloroethane	4.908	64	719	0.095	ppbV	97
10) ethanol	5.052	31	6560	0.815	ppbV	99
11) vinyl bromide	5.287	106	1144	0.098	ppbV	100
12) acrolein	5.423	56	653	0.100	ppbV #	92
13) acetone	5.573	43	12304M6	0.684	ppbV	
14) trichlorofluoromethane	5.743	101	2383	0.107	ppbV	98
15) isopropyl alcohol	5.863	45	5540	0.253	ppbV	97
16) acrylonitrile	6.077	53	953M4	0.089	ppbV	
17) 1,1-dichloroethene	6.442	61	2056	0.094	ppbV	98
18) tertiary butyl alcohol	6.538	59	2722M4	0.098	ppbV	
19) methylene chloride	6.580	49	17535	1.259	ppbV	100
20) 3-chloropropene	6.712	41	1810	0.091	ppbV	100
21) carbon disulfide	6.886	76	3323	0.087	ppbV #	69
22) Freon 113	6.886	101	2558	0.106	ppbV	100
23) trans-1,2-dichloroethene	7.633	61	2057	0.094	ppbV	98
24) 1,1-dichloroethane	7.850	63	2650	0.096	ppbV	98

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328238_Ev2.D
Acq On : 30 Dec 2023 3:14 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:31 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.958	73	3283	0.093	ppbV #	88
26) vinyl acetate	8.058	43	2847	0.104	ppbV	100
27) 2-butanone	8.342	43	2598	0.087	ppbV #	97
28) cis-1,2-dichloroethene	8.808	61	1930	0.093	ppbV	98
29) Ethyl Acetate	9.108	61	447	0.082	ppbV #	43
30) chloroform	9.150	83	2201	0.099	ppbV	99
31) Tetrahydrofuran	9.642	42	1621M6	0.089	ppbV	
32) 1,2-dichloroethane	9.983	62	1524	0.092	ppbV	95
34) hexane	9.058	57	2902	0.108	ppbV #	50
36) 1,1,1-trichloroethane	10.275	97	1913	0.092	ppbV	95
37) benzene	10.800	78	5317	0.113	ppbV	99
38) carbon tetrachloride	10.980	117	1590	0.093	ppbV	92
39) cyclohexane	11.113	56	2830	0.101	ppbV	96
40) Dibromomethane	11.720	93	1272	0.099	ppbV #	96
41) 1,2-dichloropropane	11.747	63	1808	0.092	ppbV	98
42) bromodichloromethane	11.980	83	1884	0.087	ppbV	99
43) 1,4-dioxane	12.067	88	958	0.088	ppbV #	46
44) trichloroethene	12.033	130	1855	0.097	ppbV	90
45) 2,2,4-trimethylpentane	12.073	57	11988	0.142	ppbV	99
46) heptane	12.393	43	2888	0.095	ppbV	98
47) cis-1,3-dichloropropene	13.050	75	1839	0.077	ppbV	97
48) 4-methyl-2-pentanone	13.117	43	2818	0.080	ppbV	97
49) trans-1,3-dichloropropene	13.683	75	1403	0.074	ppbV	97
50) 1,1,2-trichloroethane	13.875	97	1615	0.089	ppbV	97
52) toluene	14.192	91	5560	0.099	ppbV	100
54) 2-hexanone	14.500	43	1707	0.052	ppbV	98
55) dibromochloromethane	14.642	129	1524	0.078	ppbV	96
56) 1,2-dibromoethane	14.892	107	2019	0.081	ppbV	97
57) tetrachloroethene	15.350	166	2176	0.096	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.975	131	1608	0.098	ppbV	98
59) chlorobenzene	15.992	112	3879	0.092	ppbV	97
60) ethylbenzene	16.342	91	6604	0.094	ppbV	98
61) m+p-xylene	16.508	91	10350	0.181	ppbV	97
62) bromoform	16.575	173	1082	0.061	ppbV	96
63) styrene	16.833	104	3559	0.076	ppbV	96
64) 1,1,2,2-tetrachloroethane	16.925	83	3251	0.084	ppbV	99
65) o-xylene	16.925	91	5188	0.089	ppbV	100
66) 1,2,3-Trichloropropane	17.042	75	2585	0.092	ppbV	98
68) isopropylbenzene	17.442	105	6330	0.093	ppbV	99
69) Bromobenzene	17.517	77	3332	0.089	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328238_Ev2.D
Acq On : 30 Dec 2023 3:14 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:31 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

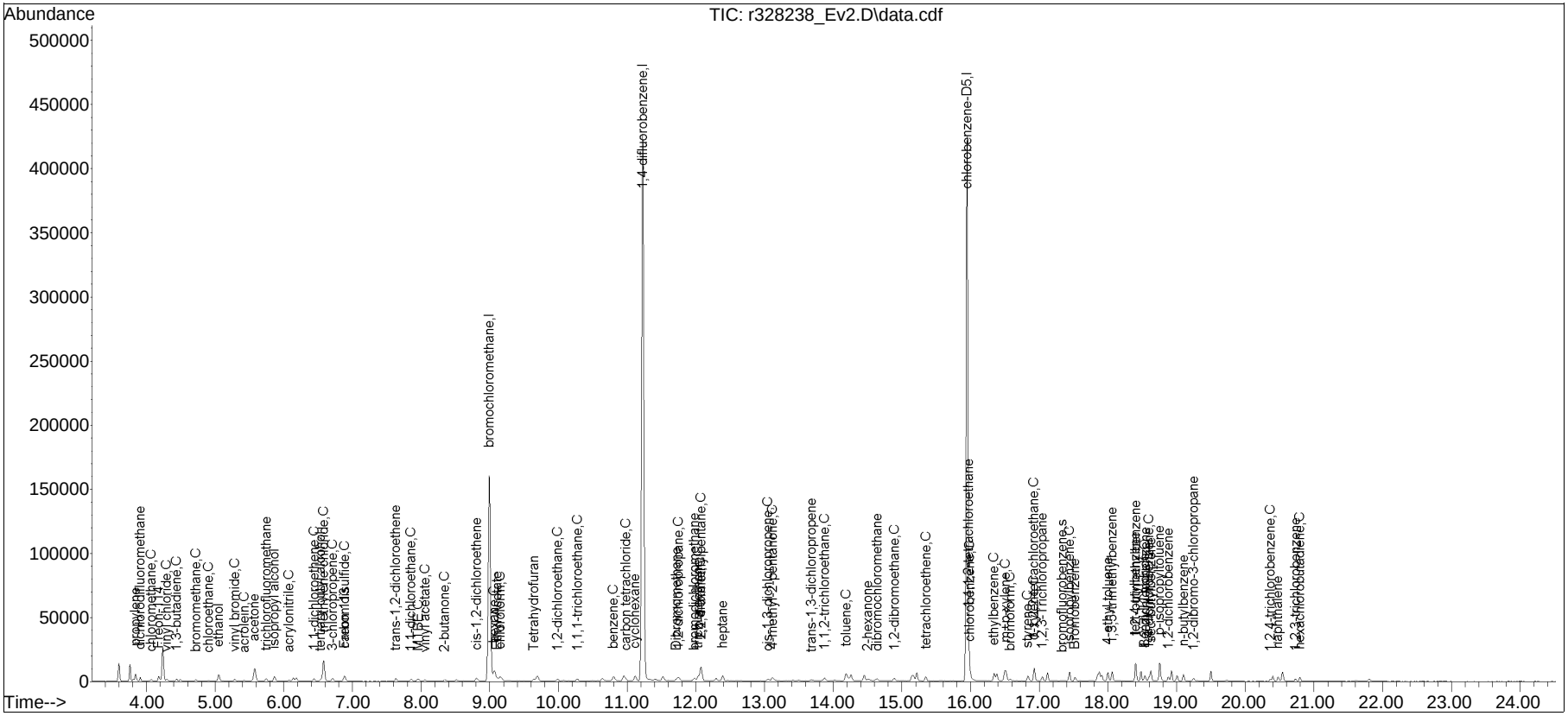
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	18.000	105	5857	0.077	ppbV #	97
71) 1,3,5-trimethylbenzene	18.058	105	5513	0.082	ppbV	97
72) tert-butylbenzene	18.400	119	5880	0.093	ppbV	98
73) 1,2,4-trimethylbenzene	18.408	105	5468	0.081	ppbV	94
74) Benzyl Chloride	18.533	91	1771	0.045	ppbV	97
75) 1,3-dichlorobenzene	18.542	146	3032	0.068	ppbV	95
76) 1,4-dichlorobenzene	18.600	146	3235	0.073	ppbV	97
77) sec-butylbenzene	18.625	105	8102	0.089	ppbV	97
78) p-isopropyltoluene	18.750	119	7047	0.092	ppbV	100
79) 1,2-dichlorobenzene	18.883	146	3273	0.077	ppbV	93
80) n-butylbenzene	19.100	91	5837	0.083	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.250	75	1131	0.074	ppbV #	81
82) 1,2,4-trichlorobenzene	20.367	180	2149	0.058	ppbV	98
83) naphthalene	20.475	128	5878	0.079	ppbV	99
84) 1,2,3-trichlorobenzene	20.733	180	2249	0.079	ppbV	98
85) hexachlorobutadiene	20.792	225	3034	0.084	ppbV	98

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328238_Ev2.D
Acq On : 30 Dec 2023 3:14 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.1
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:31 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

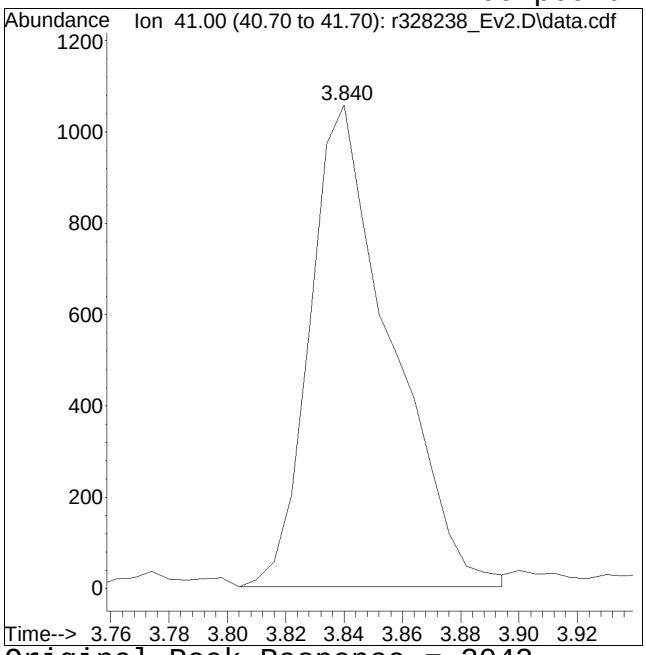


Manual Integration Report

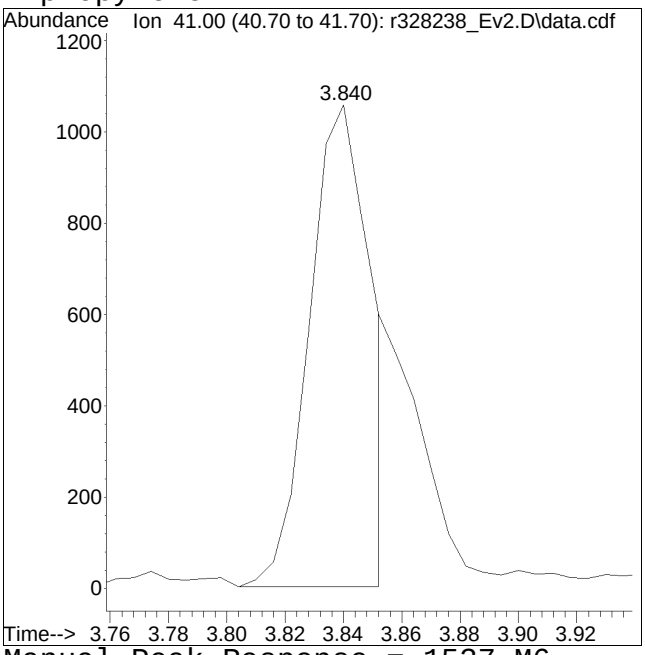
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328238_Ev2.D
Date Inj'd : 12/30/2020 0:3: 4
Sample : ITO15-SIMSTD0.1

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 2042



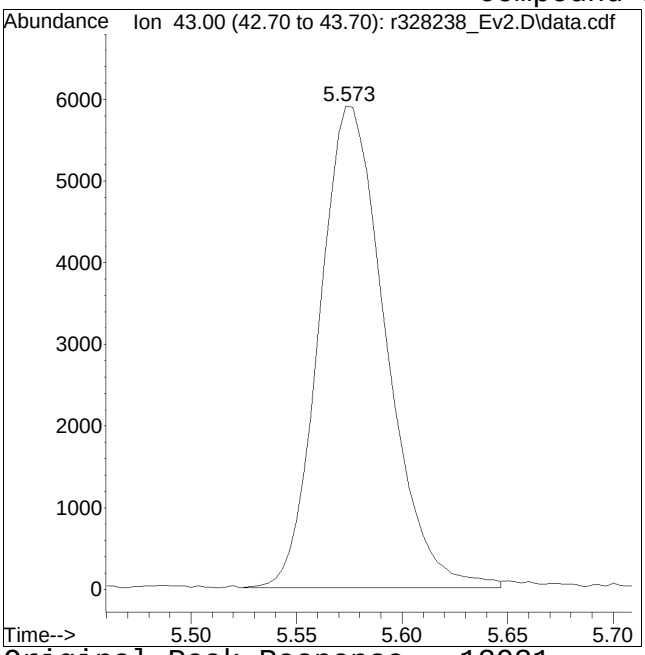
Manual Peak Response = 1537 M6

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

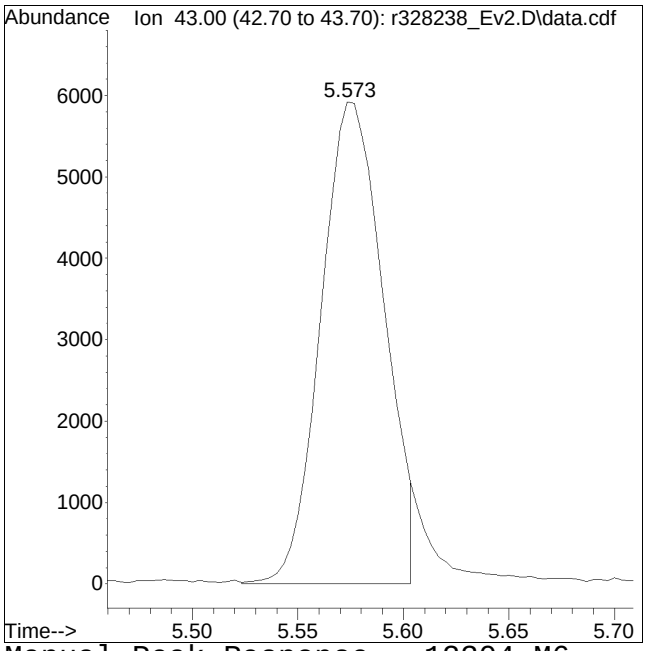
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328238_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:3: 4 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 12/31/2023 10:17 am

Compound #13: acetone



Original Peak Response = 12931



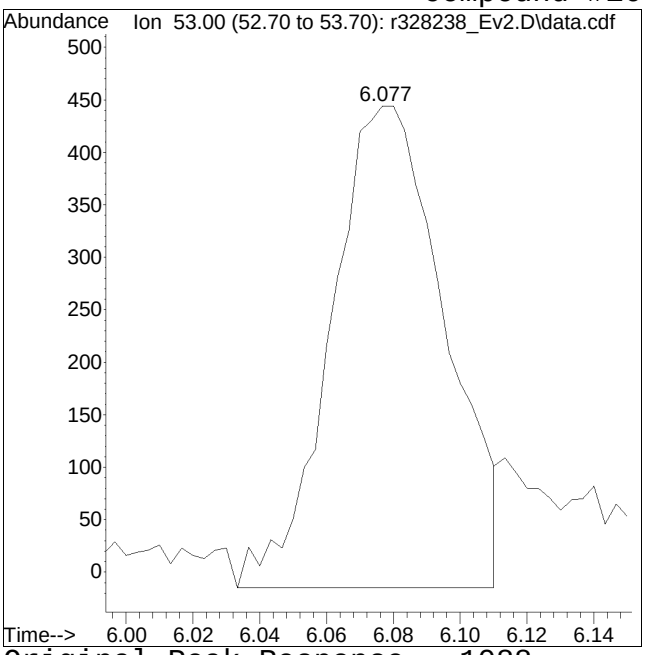
Manual Peak Response = 12304 M6

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

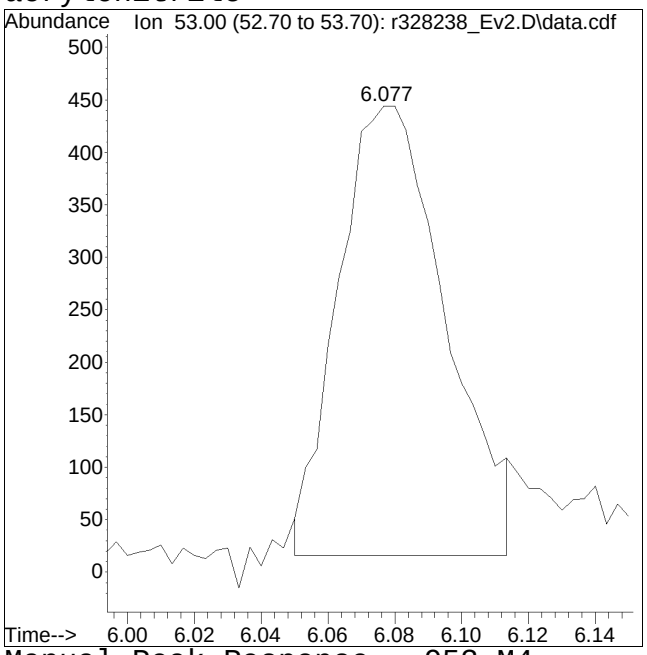
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328238_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:3: 4 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 12/31/2023 10:17 am

Compound #16: acrylonitrile



Original Peak Response = 1088



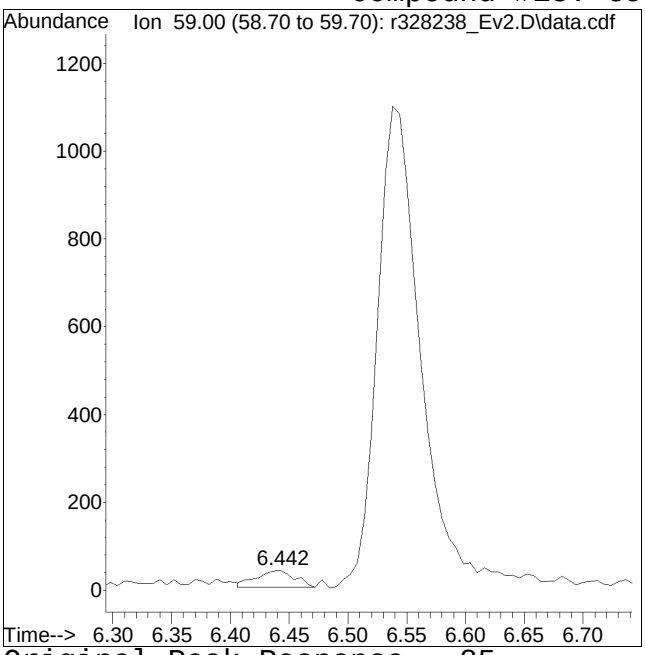
Manual Peak Response = 953 M4

M4 = Poor automated baseline construction.

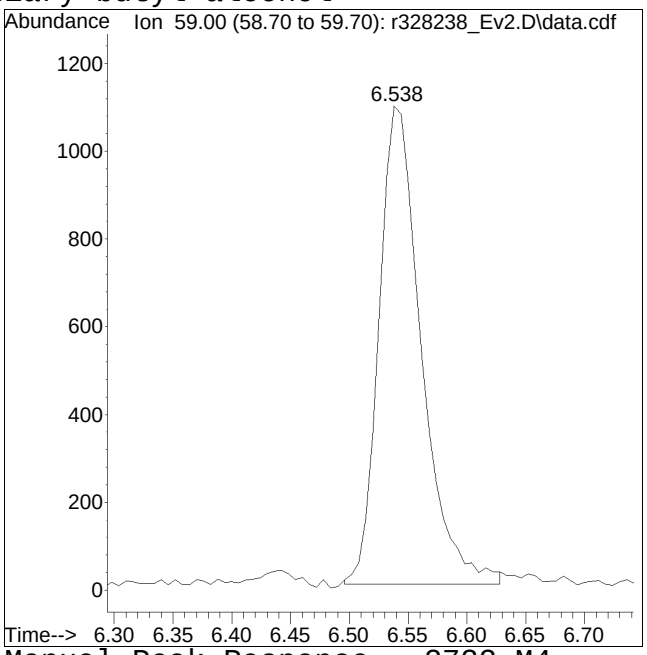
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328238_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:3: 4 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 12/31/2023 10:17 am

Compound #18: tertiary butyl alcohol



Original Peak Response = 85



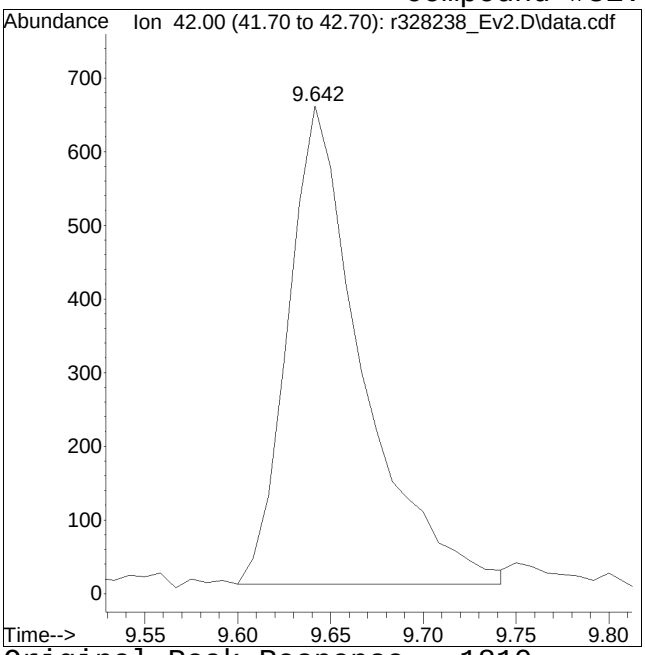
Manual Peak Response = 2722 M4

M4 = Poor automated baseline construction.

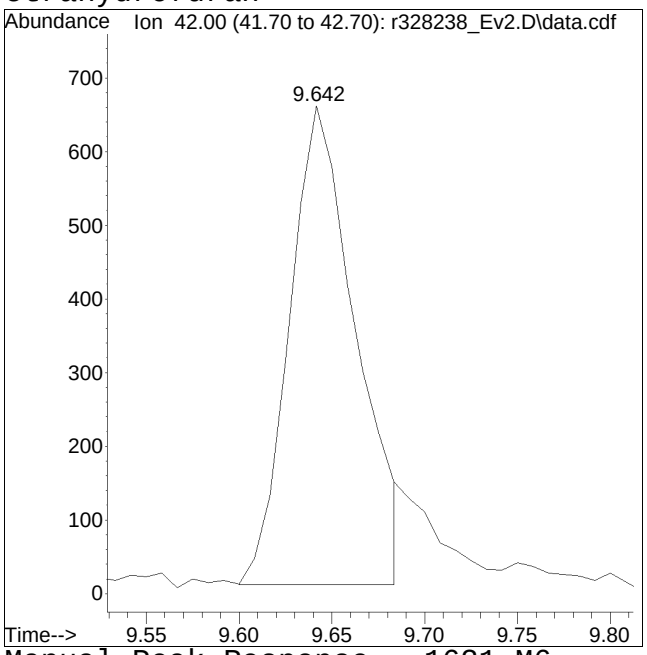
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328238_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:3: 4 Instrument :
Sample : ITO15-SIMSTD0.1 Quant Date : 12/31/2023 10:17 am

Compound #31: Tetrahydrofuran



Original Peak Response = 1810



Manual Peak Response = 1621 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328239_Ev2.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:38 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.992	49	171933	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 97.47%			
33) 1,4-difluorobenzene	11.227	114	549554	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 98.60%			
51) chlorobenzene-D5	15.950	54	82367	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 97.67%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.858	65	254351	10.000	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
53) toluene-D8	14.075	98	750981	10.108	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.08%			
67) bromofluorobenzene	17.325	95	476744	9.891	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.91%			
Target Compounds						Qvalue
2) propylene	3.834	41	2596M6	0.219	ppbV	
3) dichlorodifluoromethane	3.906	85	4763	0.215	ppbV	100
4) chloromethane	4.068	50	2307	0.215	ppbV	97
5) Freon-114	4.176	85	5753	0.211	ppbV	99
6) vinyl chloride	4.296	62	3163	0.209	ppbV	96
7) 1,3-butadiene	4.434	54	2217	0.217	ppbV	93
8) bromomethane	4.716	94	2256	0.210	ppbV	100
9) chloroethane	4.902	64	1590	0.208	ppbV #	90
10) ethanol	5.040	31	11428	1.406	ppbV	98
11) vinyl bromide	5.280	106	2483	0.211	ppbV	98
12) acrolein	5.420	56	1481	0.224	ppbV #	90
13) acetone	5.567	43	21234M6	1.169	ppbV	
14) trichlorofluoromethane	5.740	101	4714	0.209	ppbV	95
15) isopropyl alcohol	5.850	45	11527	0.521	ppbV	99
16) acrylonitrile	6.070	53	2342	0.216	ppbV	94
17) 1,1-dichloroethene	6.436	61	4683	0.213	ppbV	99
18) tertiary butyl alcohol	6.520	59	5845	0.208	ppbV	94
19) methylene chloride	6.580	49	3326	0.236	ppbV	99
20) 3-chloropropene	6.706	41	4086	0.204	ppbV	97
21) carbon disulfide	6.880	76	7449	0.194	ppbV #	86
22) Freon 113	6.880	101	5309	0.218	ppbV	99
23) trans-1,2-dichloroethene	7.625	61	4611	0.208	ppbV	94
24) 1,1-dichloroethane	7.850	63	5824	0.208	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328239_Ev2.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:38 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.942	73	7440	0.209	ppbV #	90
26) vinyl acetate	8.050	43	5749	0.207	ppbV	99
27) 2-butanone	8.325	43	5567	0.185	ppbV	99
28) cis-1,2-dichloroethene	8.800	61	4486	0.213	ppbV	98
29) Ethyl Acetate	9.100	61	998	0.181	ppbV #	51
30) chloroform	9.142	83	4689	0.209	ppbV	98
31) Tetrahydrofuran	9.625	42	3454M6	0.188	ppbV	
32) 1,2-dichloroethane	9.983	62	3997	0.239	ppbV	96
34) hexane	9.058	57	5721	0.210	ppbV #	71
36) 1,1,1-trichloroethane	10.275	97	4247	0.202	ppbV	99
37) benzene	10.800	78	10318	0.216	ppbV	99
38) carbon tetrachloride	10.973	117	3378	0.194	ppbV	95
39) cyclohexane	11.113	56	5956	0.211	ppbV	96
40) Dibromomethane	11.720	93	2721	0.209	ppbV #	94
41) 1,2-dichloropropane	11.747	63	4148	0.208	ppbV	99
42) bromodichloromethane	11.980	83	4042	0.184	ppbV #	98
43) 1,4-dioxane	12.053	88	2046	0.186	ppbV #	73
44) trichloroethene	12.027	130	4116	0.211	ppbV	96
45) 2,2,4-trimethylpentane	12.073	57	20349	0.238	ppbV	99
46) heptane	12.393	43	6201	0.202	ppbV	96
47) cis-1,3-dichloropropene	13.050	75	4254	0.177	ppbV	99
48) 4-methyl-2-pentanone	13.108	43	6633	0.186	ppbV	98
49) trans-1,3-dichloropropene	13.675	75	2993	0.156	ppbV	94
50) 1,1,2-trichloroethane	13.875	97	3662	0.200	ppbV	97
52) toluene	14.183	91	11862	0.206	ppbV	100
54) 2-hexanone	14.492	43	4729	0.141	ppbV	97
55) dibromochloromethane	14.633	129	3301	0.164	ppbV	97
56) 1,2-dibromoethane	14.883	107	4909	0.193	ppbV	99
57) tetrachloroethene	15.342	166	4719	0.203	ppbV	96
58) 1,1,1,2-tetrachloroethane	15.975	131	3476	0.206	ppbV	99
59) chlorobenzene	15.992	112	8567	0.199	ppbV	98
60) ethylbenzene	16.342	91	14189	0.197	ppbV	99
61) m+p-xylene	16.508	91	23225	0.396	ppbV	98
62) bromoform	16.575	173	2588	0.142	ppbV	98
63) styrene	16.833	104	8452	0.177	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.925	83	7460	0.189	ppbV	98
65) o-xylene	16.925	91	11724	0.197	ppbV	98
66) 1,2,3-Trichloropropane	17.042	75	5878	0.203	ppbV	99
68) isopropylbenzene	17.442	105	14726	0.211	ppbV	100
69) Bromobenzene	17.517	77	7825	0.204	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328239_Ev2.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:38 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

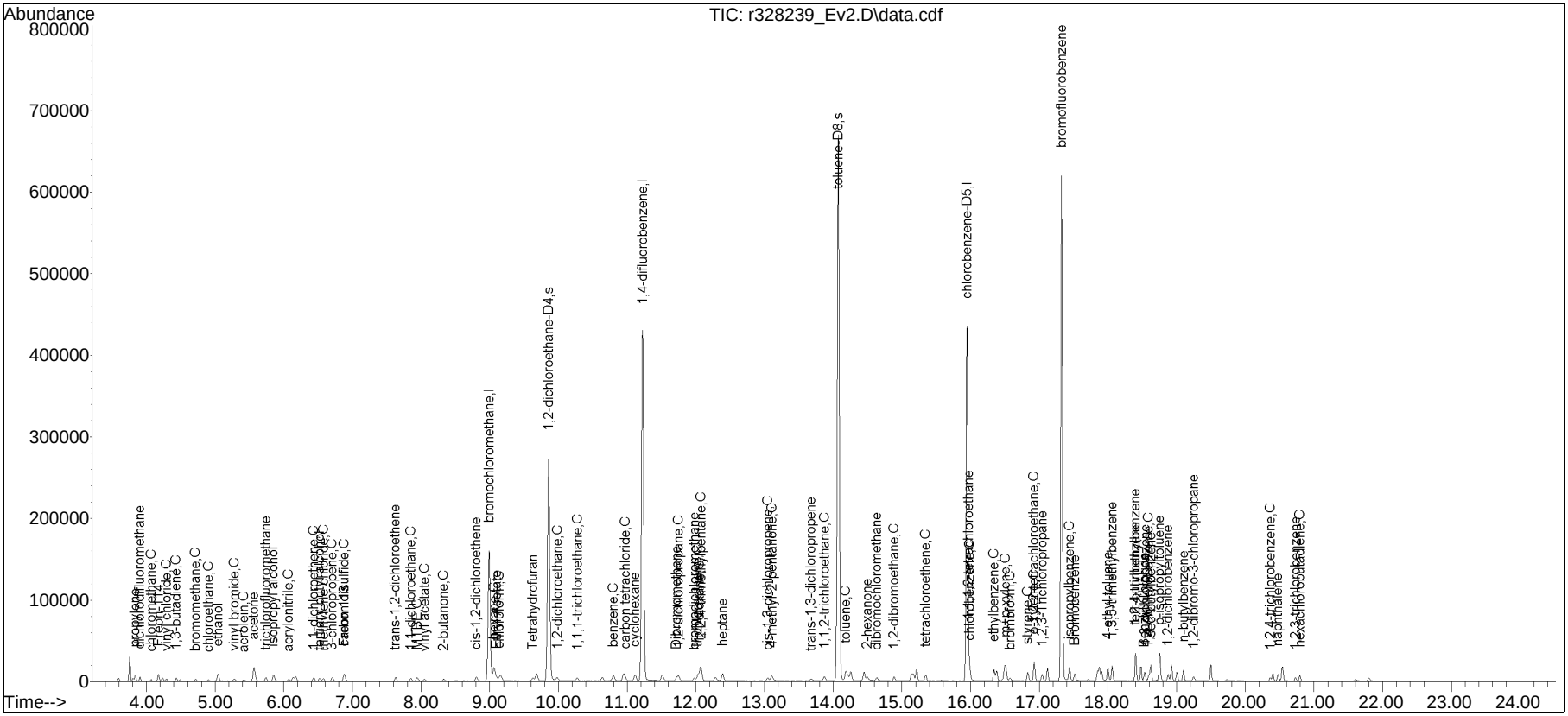
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	18.000	105	13966	0.179	ppbV		98
71) 1,3,5-trimethylbenzene	18.058	105	13307	0.193	ppbV		99
72) tert-butylbenzene	18.400	119	13407	0.206	ppbV		99
73) 1,2,4-trimethylbenzene	18.400	105	12795	0.184	ppbV		90
74) Benzyl Chloride	18.525	91	4821	0.120	ppbV		100
75) 1,3-dichlorobenzene	18.542	146	7272	0.160	ppbV		99
76) 1,4-dichlorobenzene	18.592	146	7173	0.158	ppbV		99
77) sec-butylbenzene	18.625	105	18874	0.202	ppbV		98
78) p-isopropyltoluene	18.750	119	16151	0.206	ppbV		99
79) 1,2-dichlorobenzene	18.875	146	7854	0.181	ppbV		99
80) n-butylbenzene	19.100	91	13864	0.192	ppbV		98
81) 1,2-dibromo-3-chloropr...	19.250	75	2541	0.163	ppbV	#	88
82) 1,2,4-trichlorobenzene	20.367	180	5293	0.140	ppbV		98
83) naphthalene	20.475	128	13930	0.182	ppbV		99
84) 1,2,3-trichlorobenzene	20.733	180	5294	0.181	ppbV		99
85) hexachlorobutadiene	20.792	225	6397	0.173	ppbV		98

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328239_Ev2.D
Acq On : 30 Dec 2023 3:53 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.2
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:38 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

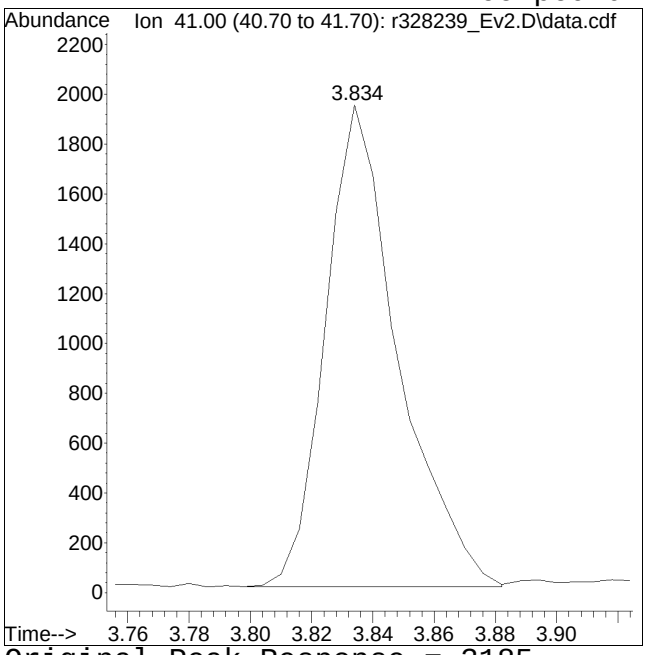


Manual Integration Report

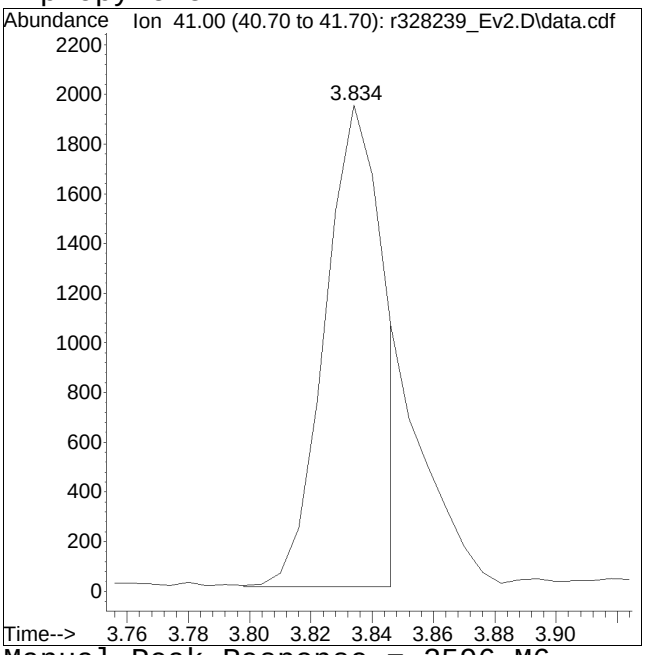
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328239_Ev2.D
Date Inj'd : 12/30/2020 0:3: 3
Sample : ITO15-SIMSTD0.2

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 3185



Manual Peak Response = 2596 M6

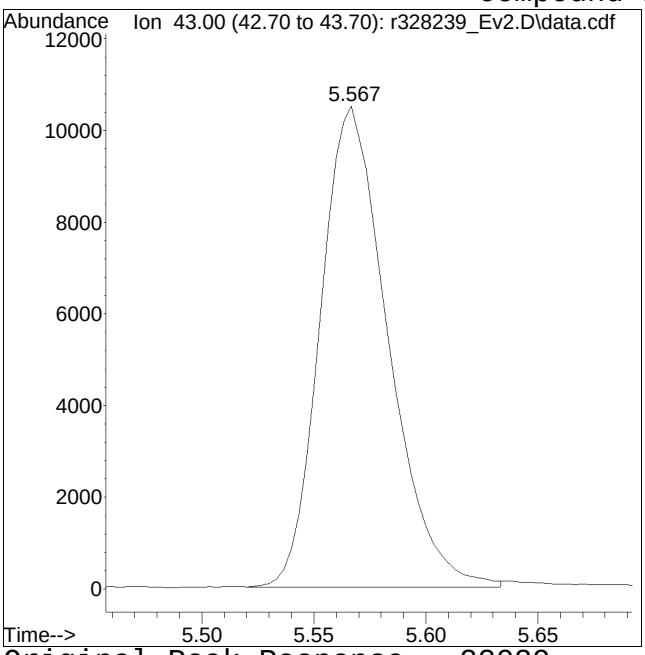
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

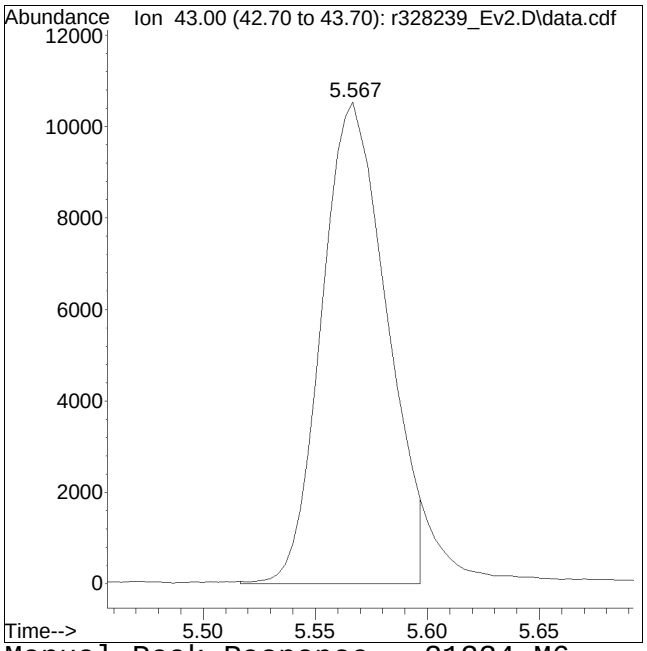
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328239_Ev2.D
Date Inj'd : 12/30/2020 0:3: 3
Sample : ITO15-SIMSTD0.2

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #13: acetone



Original Peak Response = 22029



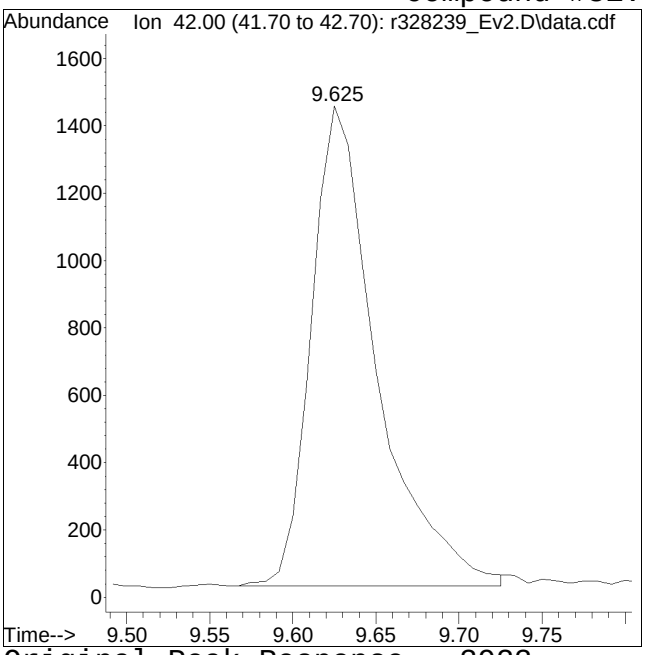
Manual Peak Response = 21234 M6

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

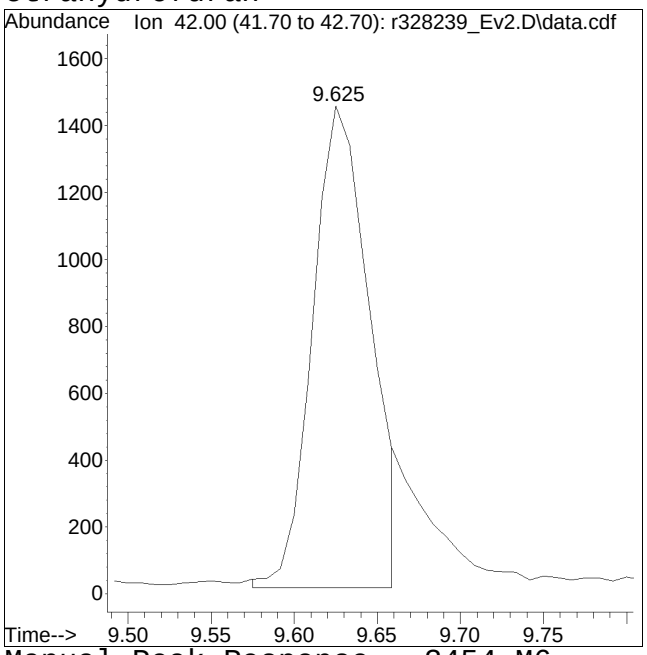
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328239_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:3: 3 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 12/31/2023 10:17 am

Compound #31: Tetrahydrofuran



Original Peak Response = 3923



Manual Peak Response = 3454 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328240_Ev2.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:45 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	171146	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 97.03%			
33) 1,4-difluorobenzene	11.220	114	542823	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 97.39%			
51) chlorobenzene-D5	15.942	54	82171	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 97.44%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	255684	10.177	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.77%			
53) toluene-D8	14.075	98	755882	10.198	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.98%			
67) bromofluorobenzene	17.325	95	483690	10.059	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.59%			
Target Compounds						Qvalue
2) propylene	3.834	41	5948M6	0.503	ppbV	
3) dichlorodifluoromethane	3.906	85	11202	0.508	ppbV	100
4) chloromethane	4.068	50	5396	0.506	ppbV	100
5) Freon-114	4.176	85	13697	0.504	ppbV	99
6) vinyl chloride	4.296	62	7580	0.504	ppbV	98
7) 1,3-butadiene	4.434	54	5132	0.504	ppbV	93
8) bromomethane	4.716	94	5417	0.507	ppbV	99
9) chloroethane	4.902	64	3856	0.507	ppbV	98
10) ethanol	5.040	31	23055	2.850	ppbV	99
11) vinyl bromide	5.283	106	5908	0.503	ppbV	97
12) acrolein	5.417	56	3342	0.507	ppbV	96
13) acetone	5.560	43	48071M6	2.658	ppbV	
14) trichlorofluoromethane	5.740	101	11378	0.506	ppbV	100
15) isopropyl alcohol	5.843	45	27411	1.245	ppbV	100
16) acrylonitrile	6.067	53	5614	0.520	ppbV	98
17) 1,1-dichloroethene	6.436	61	10841	0.496	ppbV	99
18) tertiary butyl alcohol	6.508	59	14253	0.510	ppbV	98
19) methylene chloride	6.574	49	7374	0.527	ppbV	98
20) 3-chloropropene	6.706	41	9661	0.485	ppbV	98
21) carbon disulfide	6.880	76	17958	0.470	ppbV #	94
22) Freon 113	6.880	101	12328	0.509	ppbV	99
23) trans-1,2-dichloroethene	7.625	61	11150	0.506	ppbV	95
24) 1,1-dichloroethane	7.850	63	13975	0.502	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328240_Ev2.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:45 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.933	73	17752	0.501	ppbV	#	91
26) vinyl acetate	8.042	43	13932	0.504	ppbV		99
27) 2-butanone	8.317	43	13514	0.450	ppbV		99
28) cis-1,2-dichloroethene	8.800	61	10310	0.492	ppbV		98
29) Ethyl Acetate	9.092	61	2396	0.437	ppbV	#	55
30) chloroform	9.142	83	11285	0.504	ppbV		99
31) Tetrahydrofuran	9.608	42	8728M6	0.476	ppbV		
32) 1,2-dichloroethane	9.975	62	8782	0.527	ppbV		98
34) hexane	9.058	57	13598	0.506	ppbV		79
36) 1,1,1-trichloroethane	10.267	97	10131	0.487	ppbV		96
37) benzene	10.793	78	23645	0.501	ppbV		99
38) carbon tetrachloride	10.973	117	8230	0.479	ppbV		99
39) cyclohexane	11.113	56	13842	0.496	ppbV		98
40) Dibromomethane	11.713	93	6623	0.516	ppbV	#	99
41) 1,2-dichloropropane	11.747	63	9767	0.495	ppbV		100
42) bromodichloromethane	11.973	83	10023	0.462	ppbV		100
43) 1,4-dioxane	12.040	88	5104	0.470	ppbV		90
44) trichloroethene	12.027	130	9210	0.479	ppbV		96
45) 2,2,4-trimethylpentane	12.067	57	48562	0.574	ppbV		100
46) heptane	12.387	43	15117	0.498	ppbV		98
47) cis-1,3-dichloropropene	13.042	75	10592	0.445	ppbV		99
48) 4-methyl-2-pentanone	13.092	43	16288	0.461	ppbV		99
49) trans-1,3-dichloropropene	13.667	75	7977	0.421	ppbV		100
50) 1,1,2-trichloroethane	13.867	97	8786	0.485	ppbV		96
52) toluene	14.183	91	28100	0.488	ppbV		100
54) 2-hexanone	14.483	43	13306	0.398	ppbV		100
55) dibromochloromethane	14.633	129	8224	0.410	ppbV		100
56) 1,2-dibromoethane	14.883	107	11666	0.460	ppbV		99
57) tetrachloroethene	15.342	166	11209	0.484	ppbV		97
58) 1,1,1,2-tetrachloroethane	15.975	131	8495	0.505	ppbV		99
59) chlorobenzene	15.983	112	20431	0.476	ppbV		96
60) ethylbenzene	16.342	91	34357	0.477	ppbV		99
61) m+p-xylene	16.500	91	55950	0.956	ppbV		100
62) bromoform	16.575	173	6714	0.370	ppbV		99
63) styrene	16.833	104	20887	0.438	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.925	83	18251	0.463	ppbV		98
65) o-xylene	16.925	91	28289	0.477	ppbV		99
66) 1,2,3-Trichloropropane	17.033	75	14273	0.495	ppbV		99
68) isopropylbenzene	17.433	105	35454	0.508	ppbV		98
69) Bromobenzene	17.517	77	19236	0.502	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328240_Ev2.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:45 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

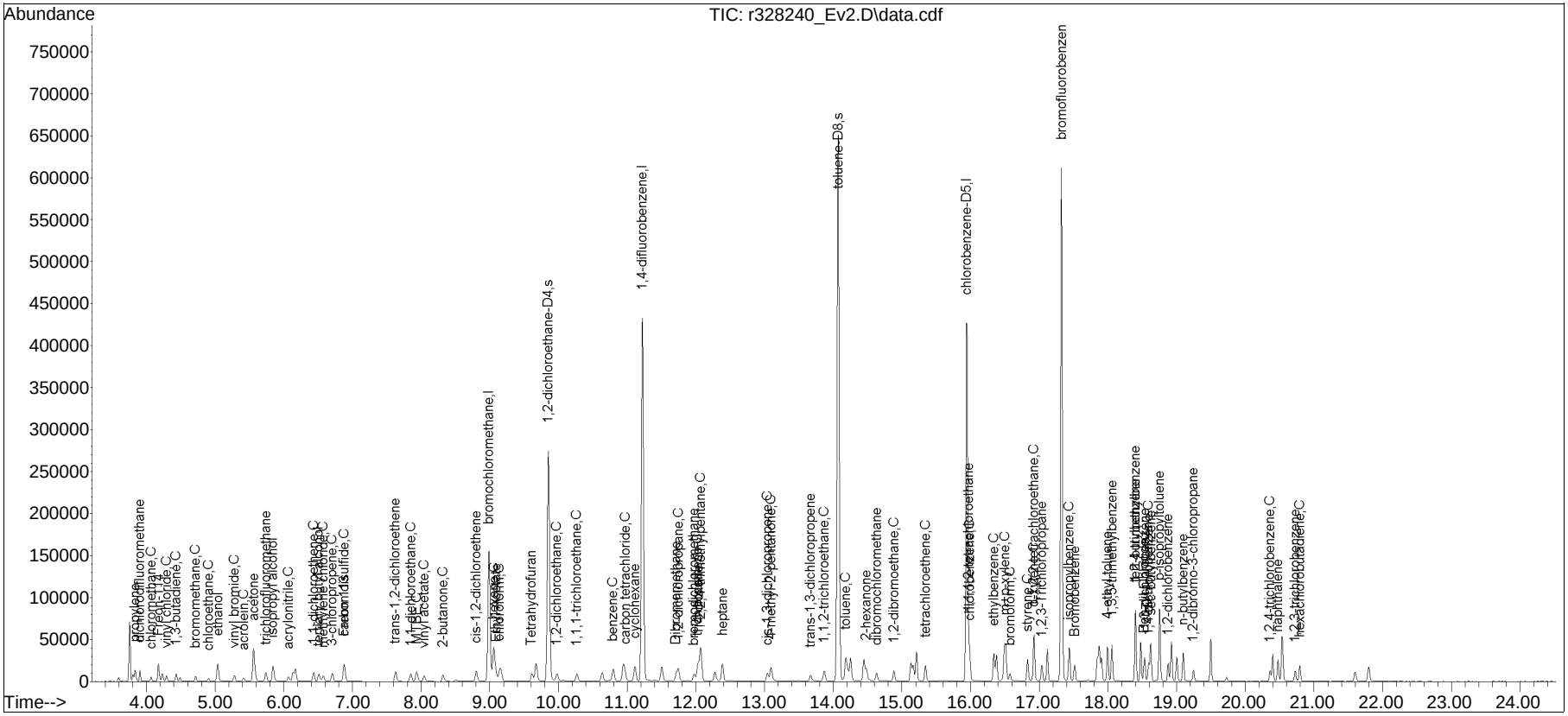
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.992	105	34855	0.449	ppbV	99
71) 1,3,5-trimethylbenzene	18.058	105	32382	0.471	ppbV	98
72) tert-butylbenzene	18.400	119	32614	0.502	ppbV	98
73) 1,2,4-trimethylbenzene	18.400	105	31390	0.453	ppbV	96
74) Benzyl Chloride	18.525	91	13169	0.330	ppbV	99
75) 1,3-dichlorobenzene	18.533	146	19840	0.436	ppbV	94
76) 1,4-dichlorobenzene	18.592	146	19671	0.434	ppbV	97
77) sec-butylbenzene	18.625	105	45563	0.489	ppbV	96
78) p-isopropyltoluene	18.750	119	39356	0.502	ppbV	99
79) 1,2-dichlorobenzene	18.875	146	19247	0.446	ppbV	98
80) n-butylbenzene	19.092	91	35253	0.490	ppbV	91
81) 1,2-dibromo-3-chloropr...	19.242	75	6935	0.447	ppbV	92
82) 1,2,4-trichlorobenzene	20.358	180	14840	0.394	ppbV	99
83) naphthalene	20.475	128	38477	0.503	ppbV	100
84) 1,2,3-trichlorobenzene	20.725	180	14437	0.494	ppbV	100
85) hexachlorobutadiene	20.792	225	16627	0.452	ppbV	100

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328240_Ev2.D
Acq On : 30 Dec 2023 4:33 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD0.5
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:45 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

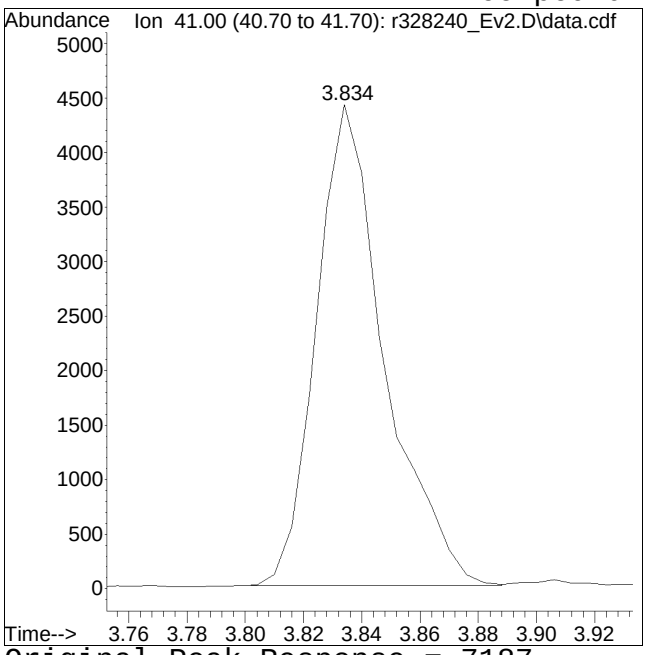


Manual Integration Report

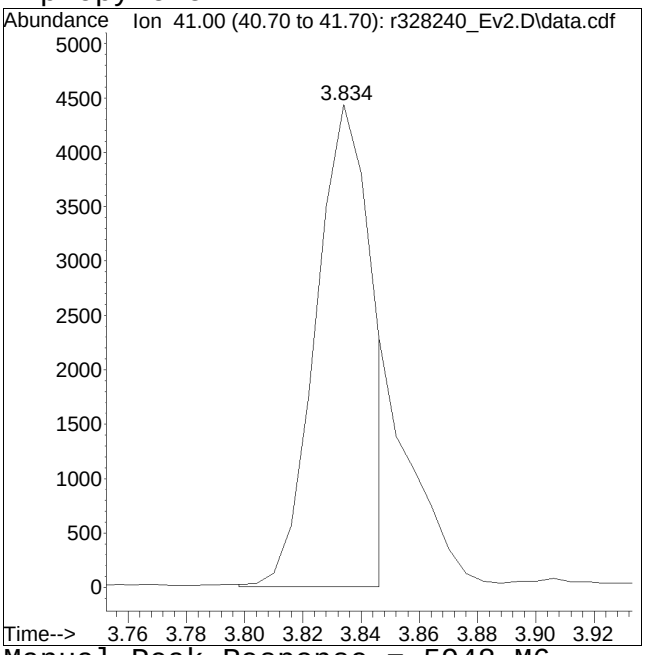
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328240_Ev2.D
Date Inj'd : 12/30/2020 0:4: 3
Sample : ITO15-SIMSTD0.5

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 7187



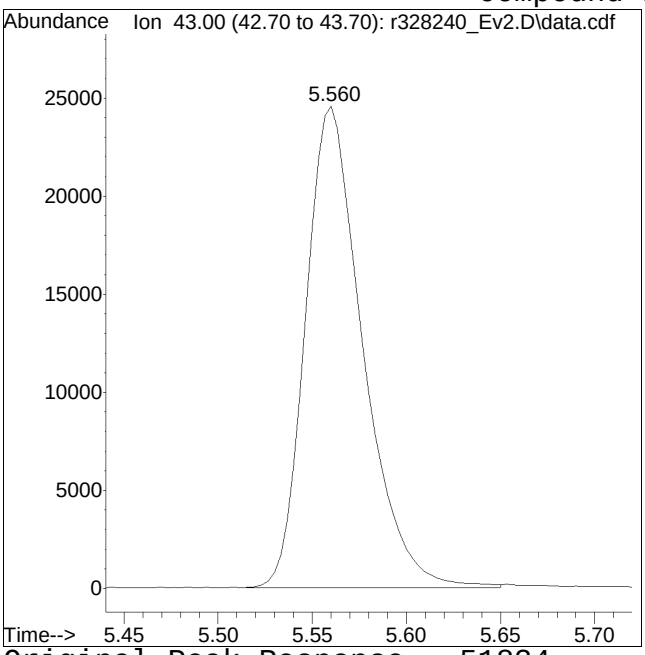
Manual Peak Response = 5948 M6

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

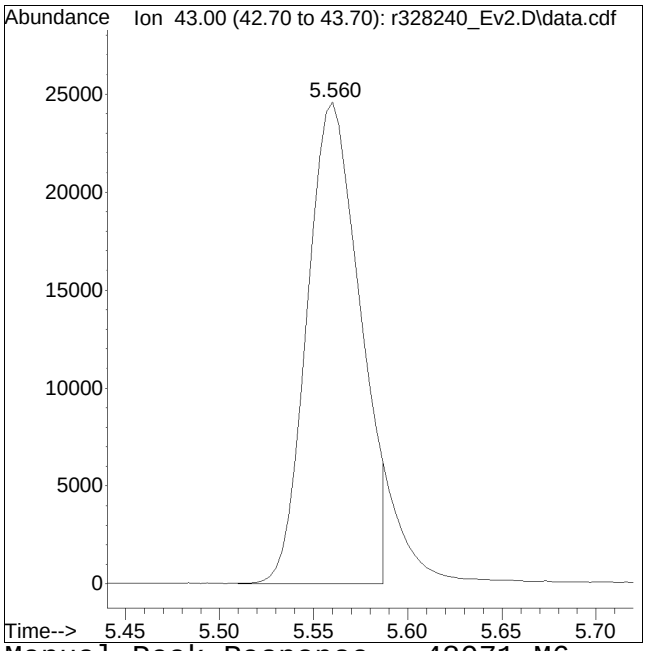
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328240_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:4: 3 Instrument :
Sample : ITO15-SIMSTD0.5 Quant Date : 12/31/2023 10:17 am

Compound #13: acetone



Original Peak Response = 51834



Manual Peak Response = 48071 M6

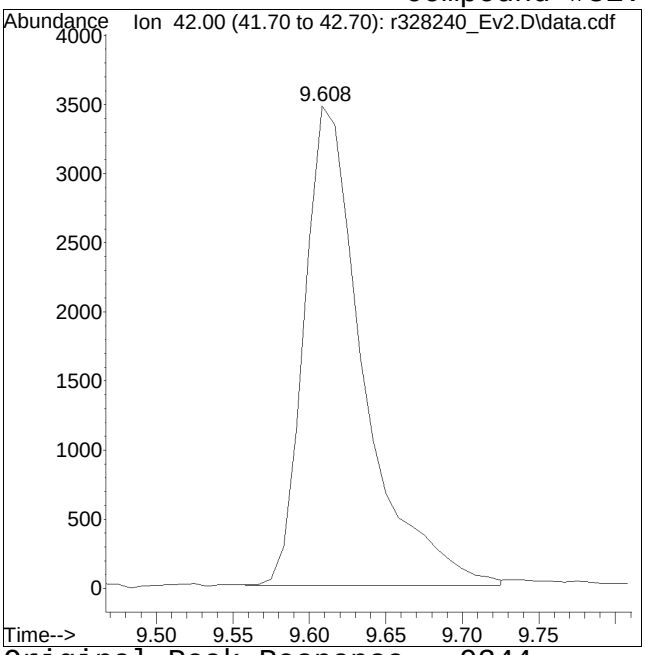
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

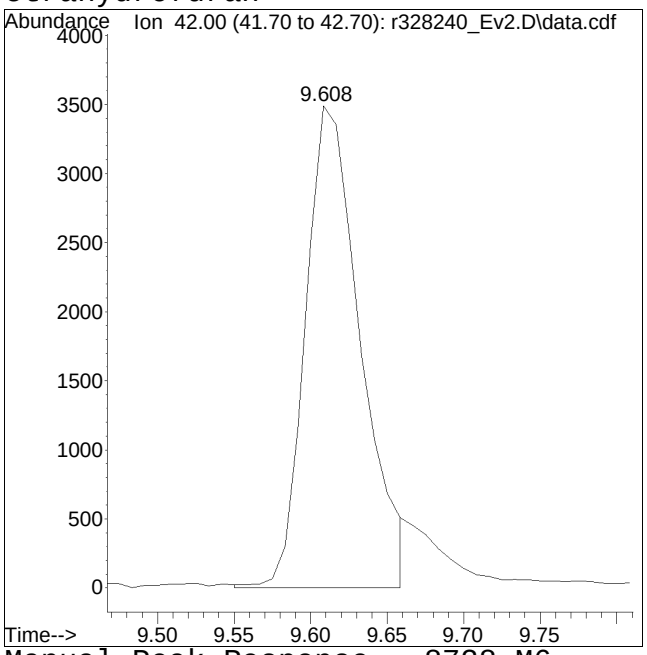
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328240_Ev2.D
Date Inj'd : 12/30/2020 0:4: 3
Sample : ITO15-SIMSTD0.5

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #31: Tetrahydrofuran



Original Peak Response = 9344



Manual Peak Response = 8728 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328241_Ev2.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:51 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	174276	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 98.80%			
33) 1,4-difluorobenzene	11.220	114	553094	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 99.24%			
51) chlorobenzene-D5	15.942	54	83651	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 99.20%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	255791	9.992	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.92%			
53) toluene-D8	14.067	98	752163	9.968	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.68%			
67) bromofluorobenzene	17.317	95	481341	9.833	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.33%			
Target Compounds						Qvalue
2) propylene	3.834	41	11236M6	0.934	ppbV	
3) dichlorodifluoromethane	3.906	85	21806	0.970	ppbV	99
4) chloromethane	4.068	50	10480	0.965	ppbV	99
5) Freon-114	4.176	85	26706	0.966	ppbV	99
6) vinyl chloride	4.296	62	14786	0.966	ppbV	100
7) 1,3-butadiene	4.434	54	10072	0.972	ppbV	94
8) bromomethane	4.716	94	10464	0.961	ppbV	100
9) chloroethane	4.902	64	7322	0.946	ppbV	100
10) ethanol	5.034	31	44163	5.361	ppbV	100
11) vinyl bromide	5.280	106	11530	0.964	ppbV	98
12) acrolein	5.413	56	6659	0.992	ppbV	98
13) acetone	5.553	43	91218M6	4.952	ppbV	
14) trichlorofluoromethane	5.740	101	22017	0.962	ppbV	99
15) isopropyl alcohol	5.837	45	52374	2.336	ppbV	100
16) acrylonitrile	6.063	53	10882	0.991	ppbV	99
17) 1,1-dichloroethene	6.436	61	21080	0.947	ppbV	99
18) tertiary butyl alcohol	6.502	59	27415	0.964	ppbV	99
19) methylene chloride	6.574	49	14133	0.991	ppbV	98
20) 3-chloropropene	6.706	41	18896	0.932	ppbV	99
21) carbon disulfide	6.880	76	36069	0.927	ppbV	98
22) Freon 113	6.880	101	23810	0.965	ppbV	99
23) trans-1,2-dichloroethene	7.625	61	21687	0.967	ppbV	96
24) 1,1-dichloroethane	7.850	63	27089	0.955	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328241_Ev2.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:51 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.925	73	34432	0.954	ppbV #	90
26) vinyl acetate	8.042	43	27808	0.989	ppbV	100
27) 2-butanone	8.308	43	26833	0.878	ppbV	100
28) cis-1,2-dichloroethene	8.800	61	20158	0.944	ppbV	98
29) Ethyl Acetate	9.083	61	5013	0.898	ppbV #	62
30) chloroform	9.142	83	21851	0.959	ppbV	99
31) Tetrahydrofuran	9.600	42	17247M6	0.925	ppbV	
32) 1,2-dichloroethane	9.975	62	16502	0.973	ppbV	98
34) hexane	9.058	57	26392	0.963	ppbV	88
36) 1,1,1-trichloroethane	10.267	97	20048	0.946	ppbV	98
37) benzene	10.793	78	45877	0.955	ppbV	99
38) carbon tetrachloride	10.967	117	16060	0.918	ppbV	98
39) cyclohexane	11.113	56	27357	0.962	ppbV	98
40) Dibromomethane	11.713	93	13075	0.999	ppbV #	99
41) 1,2-dichloropropane	11.740	63	18844	0.937	ppbV	99
42) bromodichloromethane	11.973	83	20208	0.914	ppbV	99
43) 1,4-dioxane	12.027	88	9888	0.894	ppbV	93
44) trichloroethene	12.027	130	18544	0.947	ppbV	99
45) 2,2,4-trimethylpentane	12.067	57	94713	1.099	ppbV	99
46) heptane	12.387	43	29394	0.951	ppbV	99
47) cis-1,3-dichloropropene	13.042	75	21139	0.872	ppbV	99
48) 4-methyl-2-pentanone	13.083	43	32434	0.902	ppbV	99
49) trans-1,3-dichloropropene	13.667	75	16535	0.857	ppbV	98
50) 1,1,2-trichloroethane	13.867	97	17174	0.930	ppbV	99
52) toluene	14.183	91	55091	0.940	ppbV	99
54) 2-hexanone	14.475	43	28014	0.822	ppbV	100
55) dibromochloromethane	14.633	129	17197	0.842	ppbV	99
56) 1,2-dibromoethane	14.883	107	23211	0.899	ppbV	99
57) tetrachloroethene	15.342	166	22087	0.938	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.967	131	16666	0.973	ppbV	98
59) chlorobenzene	15.983	112	40414	0.924	ppbV	99
60) ethylbenzene	16.333	91	67775	0.925	ppbV	99
61) m+p-xylene	16.500	91	110570	1.856	ppbV	99
62) bromoform	16.567	173	14355	0.777	ppbV	100
63) styrene	16.825	104	42296	0.871	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.917	83	35877	0.893	ppbV	100
65) o-xylene	16.917	91	55706	0.923	ppbV	97
66) 1,2,3-Trichloropropane	17.033	75	28431	0.968	ppbV	99
68) isopropylbenzene	17.433	105	69821	0.983	ppbV	99
69) Bromobenzene	17.508	77	38063	0.976	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328241_Ev2.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:51 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

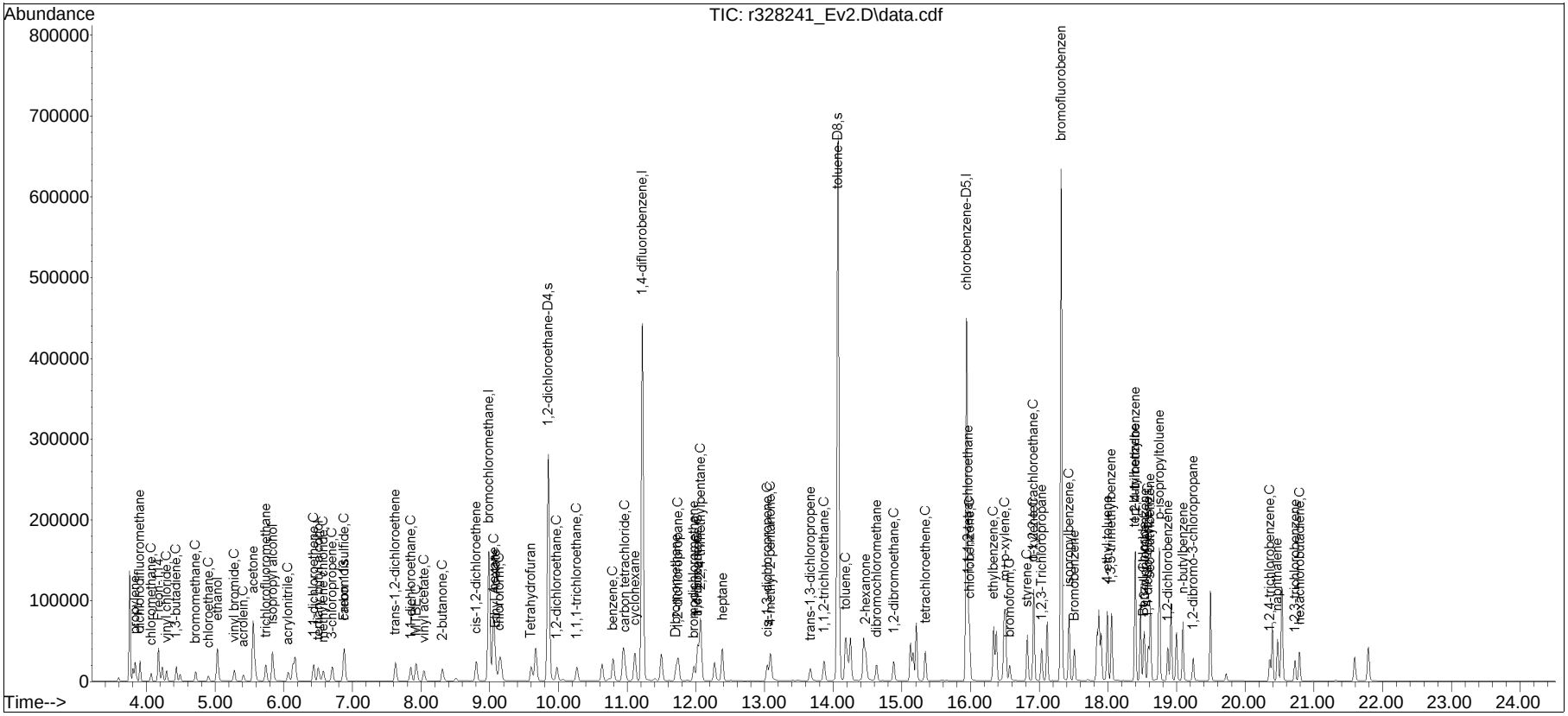
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.992	105	70886	0.896	ppbV	100
71) 1,3,5-trimethylbenzene	18.050	105	63480	0.908	ppbV	99
72) tert-butylbenzene	18.392	119	64732	0.979	ppbV	100
73) 1,2,4-trimethylbenzene	18.400	105	63145	0.895	ppbV	96
74) Benzyl Chloride	18.517	91	30667	0.754	ppbV	98
75) 1,3-dichlorobenzene	18.533	146	40760	0.881	ppbV	99
76) 1,4-dichlorobenzene	18.583	146	41583	0.901	ppbV	99
77) sec-butylbenzene	18.617	105	90611	0.955	ppbV	100
78) p-isopropyltoluene	18.750	119	78235	0.980	ppbV	98
79) 1,2-dichlorobenzene	18.875	146	39324	0.894	ppbV	93
80) n-butylbenzene	19.092	91	70940	0.969	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.242	75	14499	0.918	ppbV	94
82) 1,2,4-trichlorobenzene	20.358	180	31299	0.816	ppbV	98
83) naphthalene	20.467	128	79347	1.019	ppbV	100
84) 1,2,3-trichlorobenzene	20.725	180	30117	1.012	ppbV	98
85) hexachlorobutadiene	20.792	225	33153	0.885	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328241_Ev2.D
Acq On : 30 Dec 2023 5:15 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD1.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:51 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

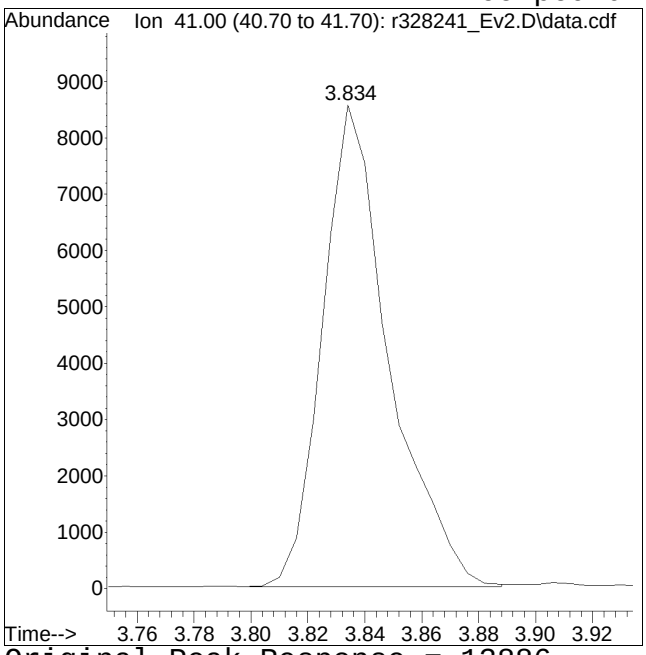


Manual Integration Report

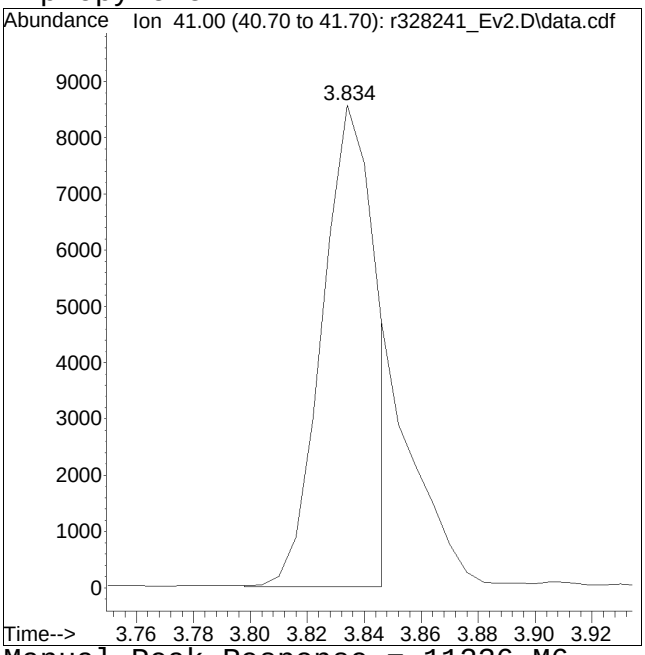
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328241_Ev2.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD1.0

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 13886



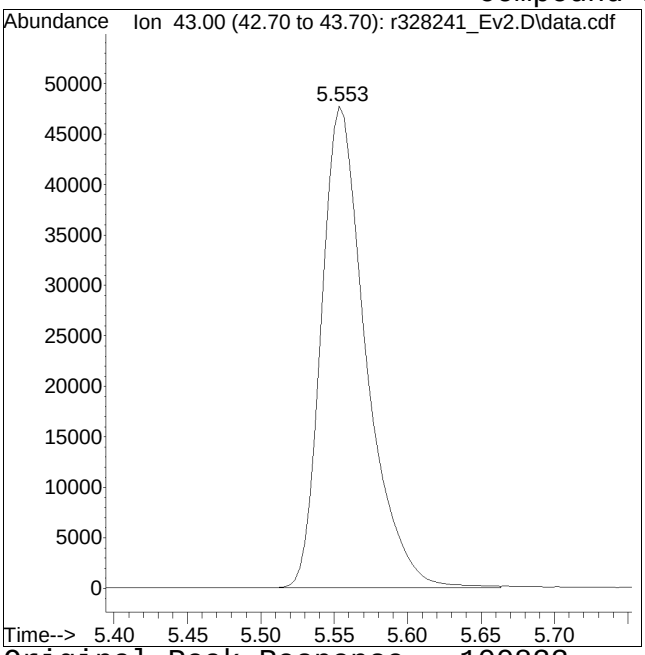
Manual Peak Response = 11236 M6

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

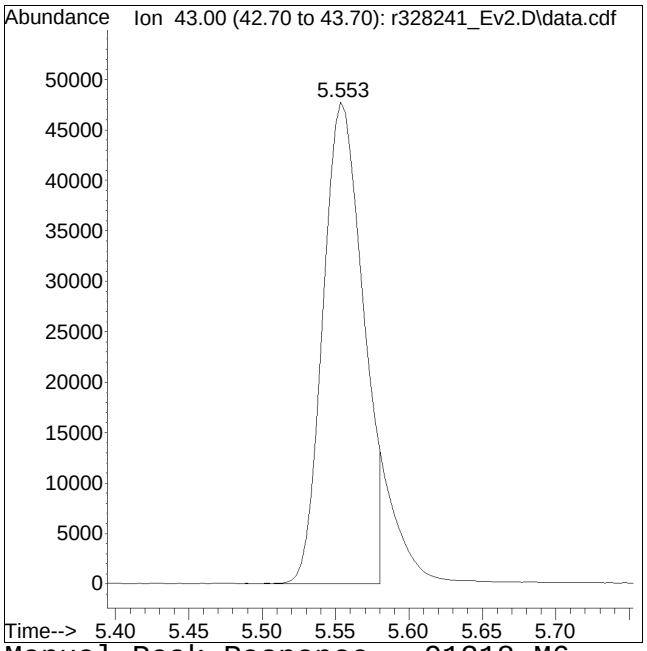
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328241_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:5: 5 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 12/31/2023 10:17 am

Compound #13: acetone



Original Peak Response = 100833



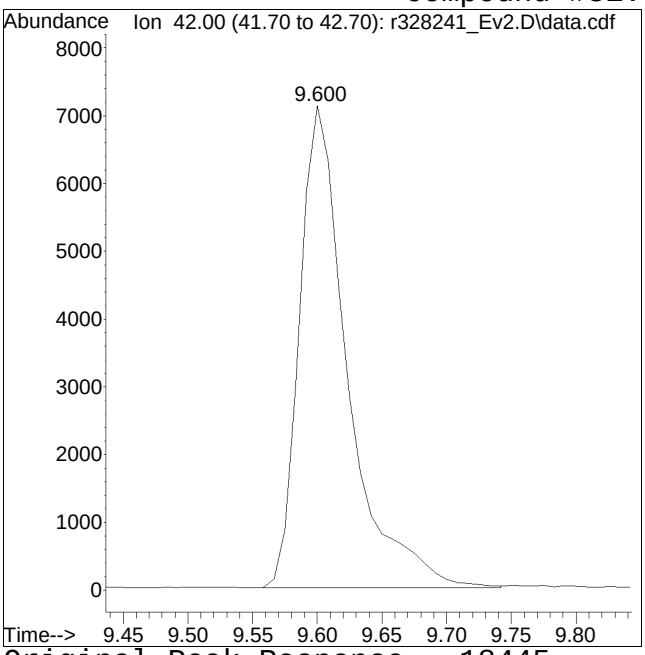
Manual Peak Response = 91218 M6

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

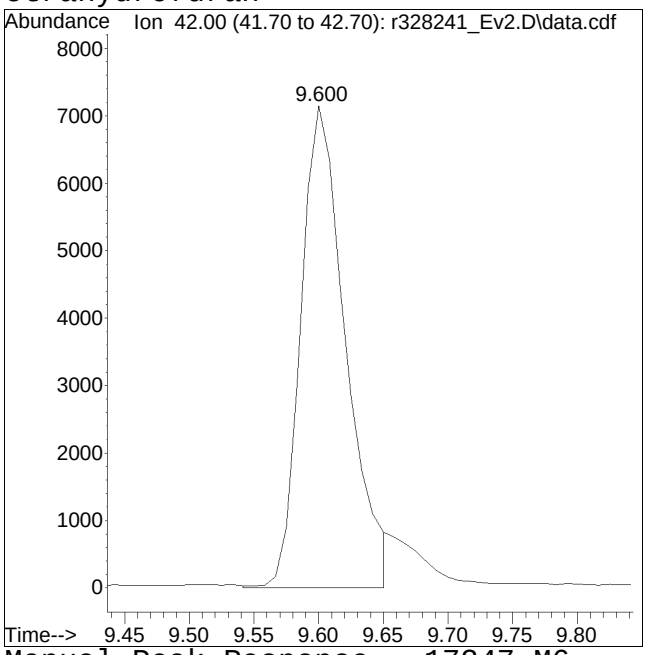
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328241_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:5: 5 Instrument :
Sample : ITO15-SIMSTD1.0 Quant Date : 12/31/2023 10:17 am

Compound #31: Tetrahydrofuran



Original Peak Response = 18445



Manual Peak Response = 17247 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328242_Ev2.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:57:27 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:56:03 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	176391	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.220	114	557342	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 100.00%			
51) chlorobenzene-D5	15.942	54	84328	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	257963	10.000	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
53) toluene-D8	14.067	98	760660	10.000	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
67) bromofluorobenzene	17.317	95	493466	10.000	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
2) propylene	3.828	41	60889M6	4.996	ppbV	
3) dichlorodifluoromethane	3.906	85	113724	5.000	ppbV	100
4) chloromethane	4.062	50	54977	5.000	ppbV	100
5) Freon-114	4.170	85	139947	5.000	ppbV	100
6) vinyl chloride	4.290	62	77463	5.000	ppbV	100
7) 1,3-butadiene	4.434	54	52431	5.000	ppbV	100
8) bromomethane	4.710	94	55093	5.000	ppbV	100
9) chloroethane	4.896	64	39156	5.000	ppbV	100
10) ethanol	5.022	31	208462	25.000	ppbV	100
11) vinyl bromide	5.277	106	60503	5.000	ppbV	100
12) acrolein	5.403	56	33982	5.000	ppbV	100
13) acetone	5.540	43	466078	25.000	ppbV	100
14) trichlorofluoromethane	5.733	101	115846	5.000	ppbV	100
15) isopropyl alcohol	5.817	45	283657	12.500	ppbV	100
16) acrylonitrile	6.057	53	55582	5.000	ppbV	100
17) 1,1-dichloroethene	6.430	61	112691	5.000	ppbV	100
18) tertiary butyl alcohol	6.478	59	143988	5.000	ppbV	100
19) methylene chloride	6.574	49	72147	5.000	ppbV	100
20) 3-chloropropene	6.700	41	102598	5.000	ppbV	100
21) carbon disulfide	6.874	76	197000	5.000	ppbV	100
22) Freon 113	6.874	101	124829	5.000	ppbV	100
23) trans-1,2-dichloroethene	7.625	61	113451	5.000	ppbV	100
24) 1,1-dichloroethane	7.842	63	143600	5.000	ppbV	100

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328242_Ev2.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:57:27 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:56:03 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.917	73	182746	5.000	ppbV		100
26) vinyl acetate	8.033	43	142333	5.000	ppbV		100
27) 2-butanone	8.292	43	154731	5.000	ppbV		100
28) cis-1,2-dichloroethene	8.800	61	108009	5.000	ppbV		100
29) Ethyl Acetate	9.067	61	28250	5.000	ppbV		100
30) chloroform	9.142	83	115297	5.000	ppbV		100
31) Tetrahydrofuran	9.575	42	94392	5.000	ppbV		100
32) 1,2-dichloroethane	9.975	62	85820	5.000	ppbV		100
34) hexane	9.050	57	138023	5.000	ppbV		100
36) 1,1,1-trichloroethane	10.267	97	106817	5.000	ppbV		100
37) benzene	10.793	78	242086	5.000	ppbV		100
38) carbon tetrachloride	10.967	117	88149	5.000	ppbV		100
39) cyclohexane	11.107	56	143298	5.000	ppbV		100
40) Dibromomethane	11.707	93	65953	5.000	ppbV	#	100
41) 1,2-dichloropropane	11.740	63	101281	5.000	ppbV		100
42) bromodichloromethane	11.967	83	111368	5.000	ppbV		100
43) 1,4-dioxane	12.013	88	55717	5.000	ppbV		100
44) trichloroethene	12.020	130	98702	5.000	ppbV		100
45) 2,2,4-trimethylpentane	12.067	57	434236M6	5.002	ppbV		
46) heptane	12.380	43	155807	5.000	ppbV		100
47) cis-1,3-dichloropropene	13.033	75	122094	5.000	ppbV		100
48) 4-methyl-2-pentanone	13.075	43	181201	5.000	ppbV		100
49) trans-1,3-dichloropropene	13.658	75	97215	5.000	ppbV		100
50) 1,1,2-trichloroethane	13.867	97	93028	5.000	ppbV		100
52) toluene	14.175	91	295268	5.000	ppbV		100
54) 2-hexanone	14.458	43	171757	5.006	ppbV		100
55) dibromochloromethane	14.625	129	102909	5.000	ppbV		100
56) 1,2-dibromoethane	14.875	107	130111	5.000	ppbV		100
57) tetrachloroethene	15.342	166	118743	5.000	ppbV		100
58) 1,1,1,2-tetrachloroethane	15.967	131	86348	5.000	ppbV		100
59) chlorobenzene	15.983	112	220387	5.000	ppbV		100
60) ethylbenzene	16.333	91	369221	5.000	ppbV		100
61) m+p-xylene	16.492	91	600518	10.000	ppbV		100
62) bromoform	16.567	173	93173	5.000	ppbV		100
63) styrene	16.825	104	244729	5.000	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.917	83	202455	5.000	ppbV		100
65) o-xylene	16.917	91	304097	5.000	ppbV		100
66) 1,2,3-Trichloropropane	17.033	75	148019	5.000	ppbV		100
68) isopropylbenzene	17.433	105	357946	5.000	ppbV		100
69) Bromobenzene	17.508	77	196560	5.000	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328242_Ev2.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:57:27 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:56:03 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

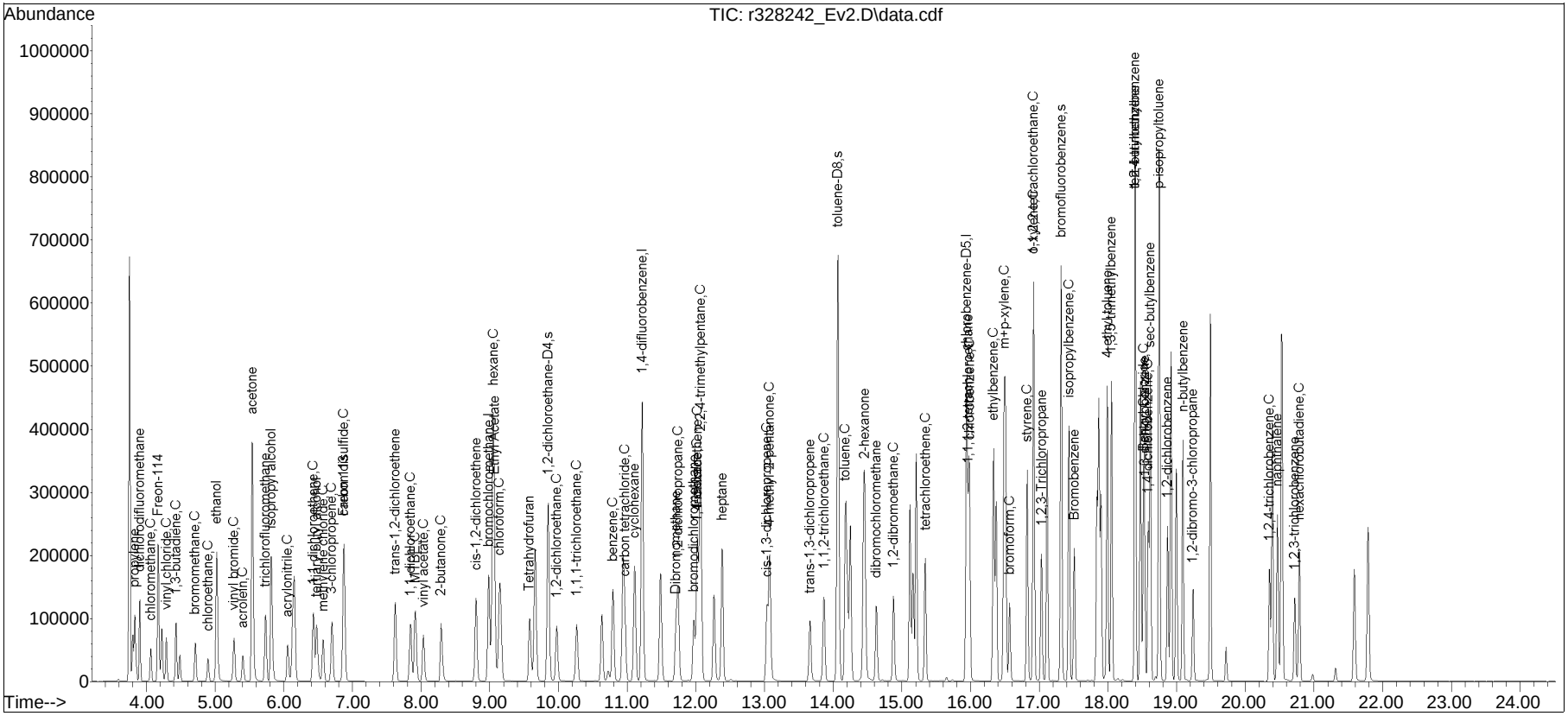
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.992	105	398555	5.000	ppbV	100
71) 1,3,5-trimethylbenzene	18.050	105	352545	5.000	ppbV	100
72) tert-butylbenzene	18.392	119	333215	5.000	ppbV	100
73) 1,2,4-trimethylbenzene	18.392	105	355517	5.000	ppbV	100
74) Benzyl Chloride	18.517	91	205056	5.000	ppbV	100
75) 1,3-dichlorobenzene	18.533	146	233268	5.000	ppbV	100
76) 1,4-dichlorobenzene	18.583	146	232584	5.000	ppbV	100
77) sec-butylbenzene	18.617	105	478017	5.000	ppbV	100
78) p-isopropyltoluene	18.742	119	402268	5.000	ppbV	100
79) 1,2-dichlorobenzene	18.867	146	221597	5.000	ppbV	100
80) n-butylbenzene	19.092	91	369136	5.000	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.233	75	79640	5.000	ppbV	100
82) 1,2,4-trichlorobenzene	20.350	180	193450	5.000	ppbV	100
83) naphthalene	20.467	128	392382	5.000	ppbV	100
84) 1,2,3-trichlorobenzene	20.717	180	149931	5.000	ppbV	100
85) hexachlorobutadiene	20.783	225	188808	5.000	ppbV	100

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328242_Ev2.D
Acq On : 30 Dec 2023 5:55 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 09:57:27 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 09:56:03 2023
Response via : Initial Calibration

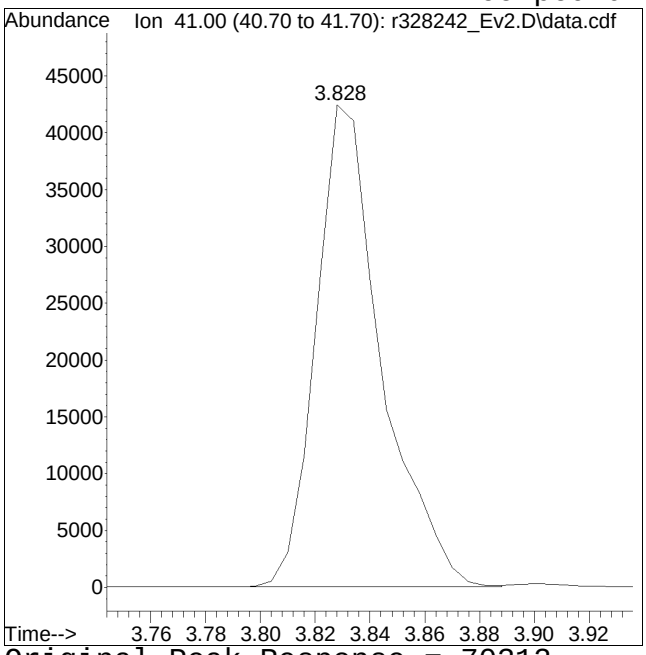


Manual Integration Report

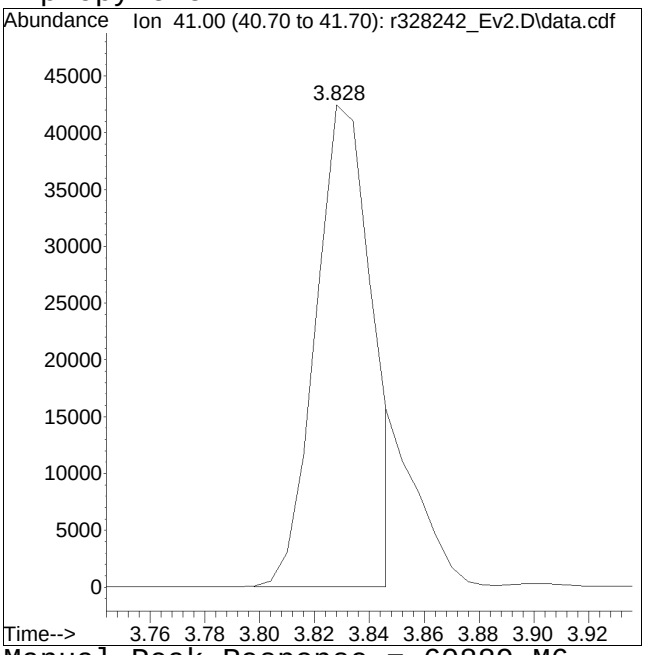
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328242_Ev2.D
Date Inj'd : 12/30/2020 0:5: 5
Sample : ITO15-SIMSTD5.0

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 9:57 am

Compound #2: propylene



Original Peak Response = 70312



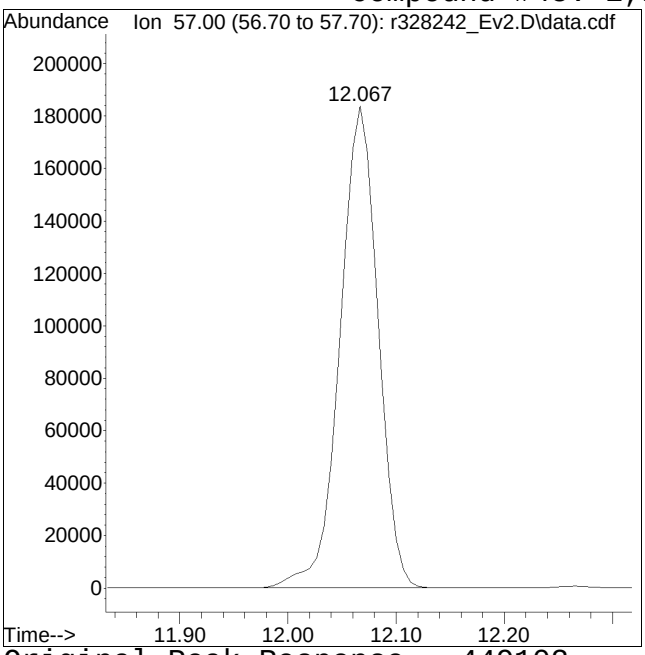
Manual Peak Response = 60889 M6

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

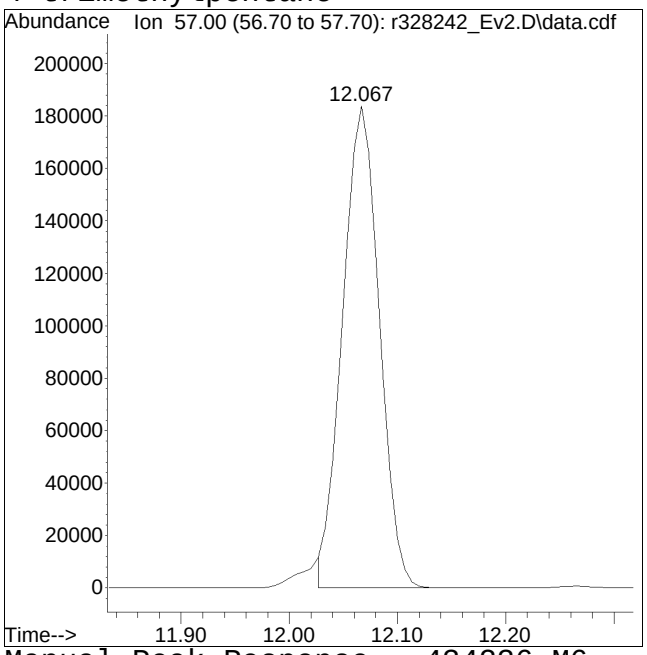
Manual Integration Report

Data Path : O:\Forensics\Data\AirpianoQMethod : TSIM3_231230.M
Data File : r328242_Ev2.D Operator : AIRPIANO3:JMB
Date Inj'd : 12/30/2020 0:5: 5 Instrument :
Sample : ITO15-SIMSTD5.0 Quant Date : 12/31/2023 9:57 am

Compound #45: 2,2,4-trimethylpentane



Original Peak Response = 449102



Manual Peak Response = 434236 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328243_Ev2.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:57 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	183646	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 104.11%			
33) 1,4-difluorobenzene	11.213	114	583710	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 104.73%			
51) chlorobenzene-D5	15.942	54	86312	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 102.35%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	262072	9.700	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.00%			
53) toluene-D8	14.067	98	787692	10.117	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.17%			
67) bromofluorobenzene	17.317	95	506828	10.035	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.35%			
Target Compounds						Qvalue
2) propylene	3.828	41	124851M6	9.847	ppbV	
3) dichlorodifluoromethane	3.900	85	220386	9.307	ppbV	100
4) chloromethane	4.062	50	109803	9.592	ppbV	99
5) Freon-114	4.164	85	275656	9.460	ppbV	98
6) vinyl chloride	4.284	62	152140	9.432	ppbV	100
7) 1,3-butadiene	4.428	54	104316	9.555	ppbV	97
8) bromomethane	4.710	94	109268	9.525	ppbV	100
9) chloroethane	4.896	64	77568	9.514	ppbV	99
10) ethanol	5.022	31	439555	50.632	ppbV	96
11) vinyl bromide	5.273	106	121403	9.636	ppbV	99
12) acrolein	5.397	56	69212	9.781	ppbV	99
13) acetone	5.533	43	941618	48.512	ppbV	100
14) trichlorofluoromethane	5.730	101	230455	9.554	ppbV	99
15) isopropyl alcohol	5.810	45	583557	24.700	ppbV	100
16) acrylonitrile	6.053	53	113841	9.836	ppbV	99
17) 1,1-dichloroethene	6.424	61	226059	9.634	ppbV	100
18) tertiary butyl alcohol	6.472	59	294549	9.824	ppbV	100
19) methylene chloride	6.568	49	145320	9.673	ppbV	99
20) 3-chloropropene	6.700	41	211814	9.915	ppbV	98
21) carbon disulfide	6.868	76	415160	10.121	ppbV	99
22) Freon 113	6.874	101	253159	9.740	ppbV	99
23) trans-1,2-dichloroethene	7.617	61	229554	9.717	ppbV	96
24) 1,1-dichloroethane	7.842	63	290812	9.726	ppbV	99

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328243_Ev2.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:57 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.908	73	374187	9.833	ppbV		100
26) vinyl acetate	8.025	43	296204	9.994	ppbV		98
27) 2-butanone	8.283	43	319581	9.919	ppbV		100
28) cis-1,2-dichloroethene	8.792	61	218006	9.693	ppbV		97
29) Ethyl Acetate	9.067	61	58906	10.014	ppbV		80
30) chloroform	9.133	83	233002	9.705	ppbV		99
31) Tetrahydrofuran	9.567	42	195030	9.923	ppbV		100
32) 1,2-dichloroethane	9.975	62	169681	9.495	ppbV		99
34) hexane	9.050	57	278700	9.640	ppbV		83
36) 1,1,1-trichloroethane	10.258	97	227007	10.146	ppbV		97
37) benzene	10.787	78	494033	9.743	ppbV		100
38) carbon tetrachloride	10.967	117	180351	9.768	ppbV		100
39) cyclohexane	11.107	56	289336	9.640	ppbV		98
40) Dibromomethane	11.707	93	135167	9.784	ppbV	#	98
41) 1,2-dichloropropane	11.740	63	209060	9.855	ppbV		99
42) bromodichloromethane	11.967	83	231464	9.922	ppbV		100
43) 1,4-dioxane	12.007	88	113048	9.687	ppbV		99
44) trichloroethene	12.020	130	200660	9.706	ppbV		99
45) 2,2,4-trimethylpentane	12.060	57	911551	10.022	ppbV		100
46) heptane	12.380	43	321548	9.853	ppbV		99
47) cis-1,3-dichloropropene	13.033	75	255905	10.006	ppbV		98
48) 4-methyl-2-pentanone	13.067	43	376259	9.913	ppbV		99
49) trans-1,3-dichloropropene	13.658	75	203662	10.002	ppbV		98
50) 1,1,2-trichloroethane	13.858	97	190644	9.784	ppbV		98
52) toluene	14.175	91	594712	9.839	ppbV		100
54) 2-hexanone	14.458	43	359688	10.230	ppbV		99
55) dibromochloromethane	14.625	129	219702	10.429	ppbV		100
56) 1,2-dibromoethane	14.875	107	271388	10.189	ppbV		100
57) tetrachloroethene	15.333	166	242970	9.996	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.967	131	175988	9.956	ppbV		99
59) chlorobenzene	15.983	112	455527	10.097	ppbV		100
60) ethylbenzene	16.333	91	751089	9.937	ppbV		98
61) m+p-xylene	16.500	91	1207847	19.651	ppbV		97
62) bromoform	16.567	173	206780	10.841	ppbV		99
63) styrene	16.825	104	513652	10.253	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.917	83	419610	10.125	ppbV		100
65) o-xylene	16.917	91	609399	9.789	ppbV		97
66) 1,2,3-Trichloropropane	17.025	75	305724	10.090	ppbV		99
68) isopropylbenzene	17.433	105	730159	9.965	ppbV		99
69) Bromobenzene	17.508	77	404680	10.057	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328243_Ev2.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:57 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

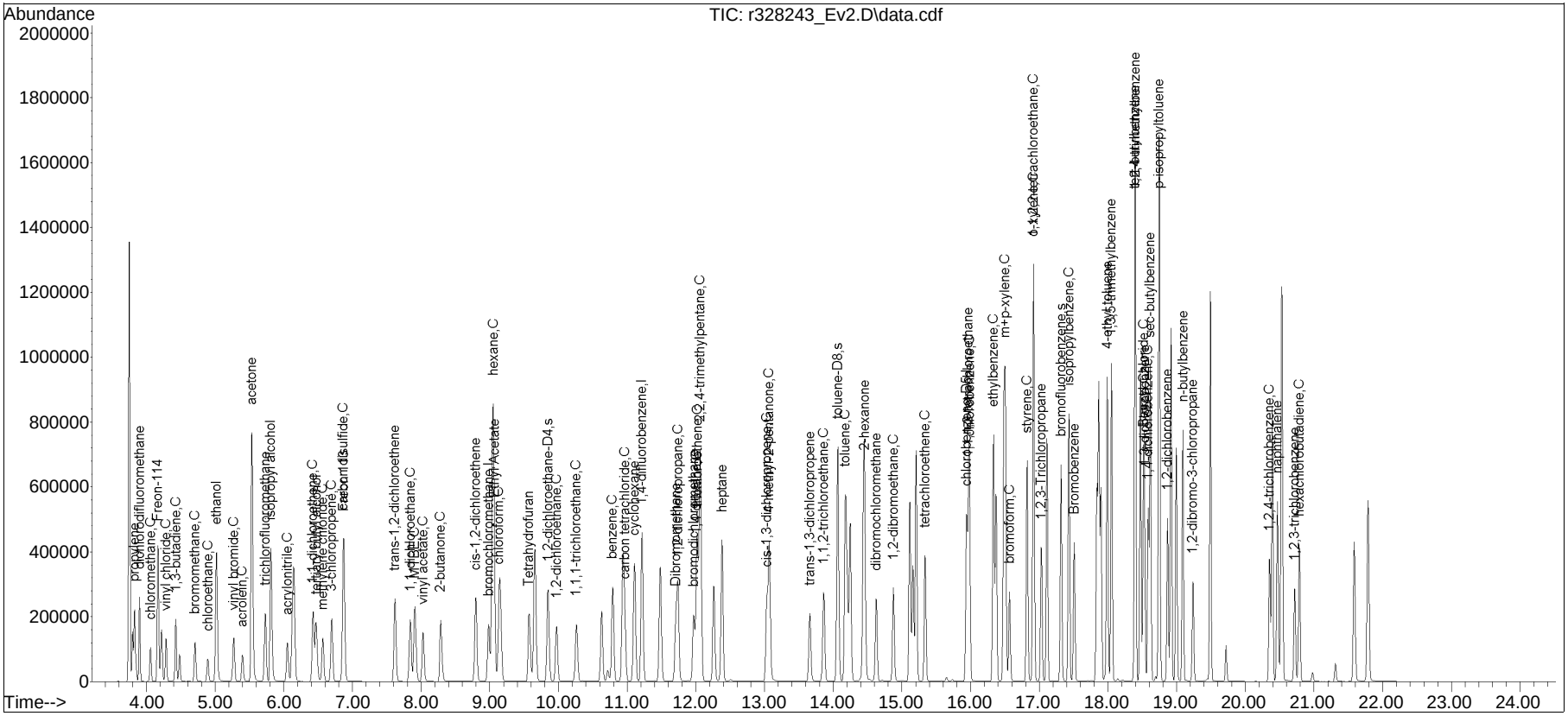
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.992	105	802009	9.830	ppbV	99
71) 1,3,5-trimethylbenzene	18.050	105	718384	9.954	ppbV	98
72) tert-butylbenzene	18.392	119	678212	9.943	ppbV	100
73) 1,2,4-trimethylbenzene	18.400	105	716610	9.847	ppbV	89
74) Benzyl Chloride	18.517	91	461376	10.991	ppbV	99
75) 1,3-dichlorobenzene	18.533	146	476990	9.989	ppbV	100
76) 1,4-dichlorobenzene	18.583	146	475337	9.984	ppbV	100
77) sec-butylbenzene	18.617	105	965061	9.862	ppbV	99
78) p-isopropyltoluene	18.742	119	808322	9.816	ppbV	100
79) 1,2-dichlorobenzene	18.867	146	452757	9.981	ppbV	100
80) n-butylbenzene	19.092	91	749947	9.925	ppbV	100
81) 1,2-dibromo-3-chloropr...	19.233	75	169630	10.405	ppbV	98
82) 1,2,4-trichlorobenzene	20.350	180	413261	10.436	ppbV	99
83) naphthalene	20.467	128	826196	10.286	ppbV	100
84) 1,2,3-trichlorobenzene	20.717	180	319277	10.403	ppbV	99
85) hexachlorobutadiene	20.783	225	385680	9.979	ppbV	99

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328243_Ev2.D
Acq On : 30 Dec 2023 6:38 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD010
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:17:57 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

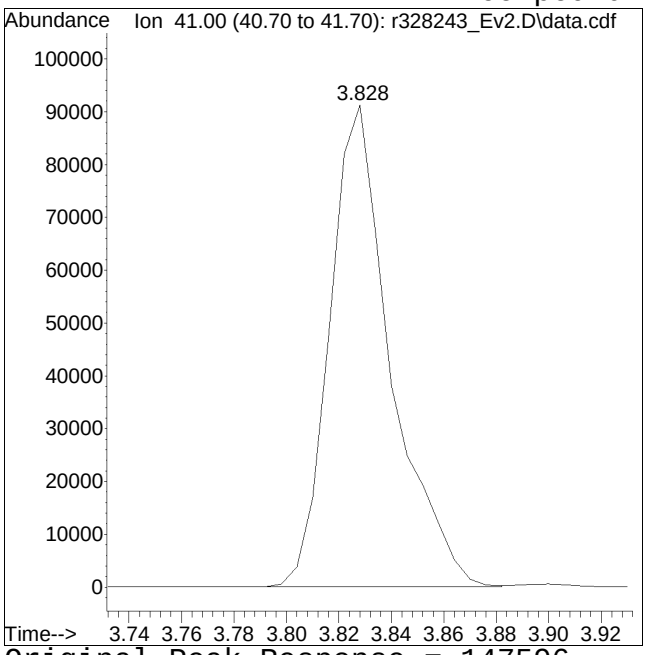


Manual Integration Report

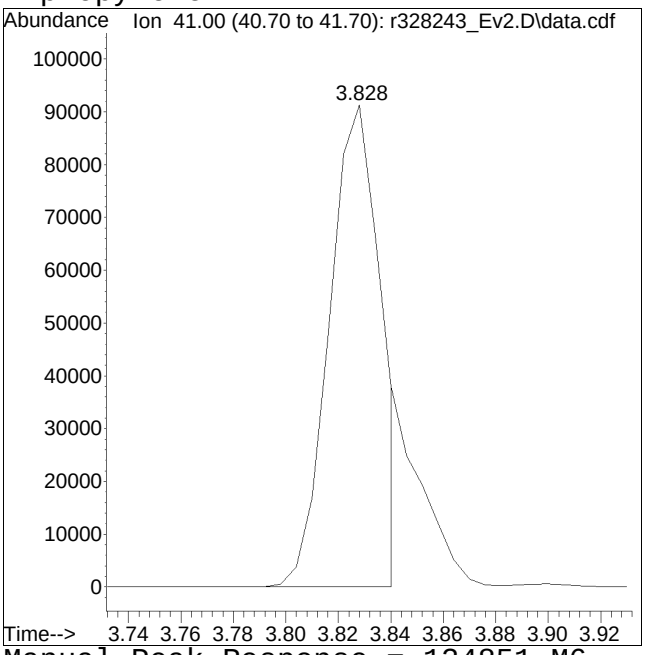
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328243_Ev2.D
Date Inj'd : 12/30/2020 0:6: 8
Sample : ITO15-SIMSTD010

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:17 am

Compound #2: propylene



Original Peak Response = 147596



Manual Peak Response = 124851 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328244_Ev2.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:03 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	191430	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 108.53%			
33) 1,4-difluorobenzene	11.220	114	613667	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 110.11%			
51) chlorobenzene-D5	15.942	54	86380	10.000	ppbV	0.00
Standard Area = 84328			Recovery = 102.43%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	261332	9.201	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 92.01%			
53) toluene-D8	14.067	98	811955	10.421	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 104.21%			
67) bromofluorobenzene	17.317	95	504083	9.972	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.72%			
Target Compounds						Qvalue
2) propylene	3.828	41	258841M6	19.585	ppbV	
3) dichlorodifluoromethane	3.906	85	426647	17.284	ppbV	100
4) chloromethane	4.062	50	224641	18.825	ppbV	100
5) Freon-114	4.170	85	543158	17.881	ppbV	99
6) vinyl chloride	4.290	62	299300	17.801	ppbV	100
7) 1,3-butadiene	4.434	54	213275	18.741	ppbV	100
8) bromomethane	4.710	94	219190	18.330	ppbV	99
9) chloroethane	4.896	64	156207	18.380	ppbV	100
10) ethanol	5.022	31	821902	90.824	ppbV	94
11) vinyl bromide	5.277	106	244305	18.603	ppbV	99
12) acrolein	5.400	56	154713	20.976	ppbV	99
13) acetone	5.537	43	1984944	98.106	ppbV	99
14) trichlorofluoromethane	5.733	101	465468	18.512	ppbV	99
15) isopropyl alcohol	5.813	45	1271628	51.635	ppbV	100
16) acrylonitrile	6.053	53	257267	21.325	ppbV	99
17) 1,1-dichloroethene	6.430	61	467103	19.097	ppbV	98
18) tertiary butyl alcohol	6.472	59	670230	21.445	ppbV	99
19) methylene chloride	6.574	49	305210	19.490	ppbV	99
20) 3-chloropropene	6.700	41	466851	20.964	ppbV	97
21) carbon disulfide	6.874	76	913550	21.365	ppbV	98
22) Freon 113	6.874	101	526515	19.433	ppbV	100
23) trans-1,2-dichloroethene	7.617	61	485257	19.706	ppbV	94
24) 1,1-dichloroethane	7.842	63	609990	19.571	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328244_Ev2.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:03 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.908	73	800656	20.185	ppbV		99
26) vinyl acetate	8.025	43	659825	21.358	ppbV		98
27) 2-butanone	8.283	43	697295	20.762	ppbV		99
28) cis-1,2-dichloroethene	8.800	61	454719	19.396	ppbV		98
29) Ethyl Acetate	9.067	61	128195	20.907	ppbV		85
30) chloroform	9.142	83	478569	19.123	ppbV		99
31) Tetrahydrofuran	9.567	42	426660	20.825	ppbV		97
32) 1,2-dichloroethane	9.975	62	340306	18.269	ppbV		98
34) hexane	9.050	57	585233	19.255	ppbV		78
36) 1,1,1-trichloroethane	10.267	97	440280	18.717	ppbV		98
37) benzene	10.793	78	1049824	19.693	ppbV		98
38) carbon tetrachloride	10.967	117	371592	19.143	ppbV		99
39) cyclohexane	11.107	56	617659	19.573	ppbV		97
40) Dibromomethane	11.707	93	298575	20.558	ppbV	#	96
41) 1,2-dichloropropane	11.740	63	440638	19.757	ppbV		98
42) bromodichloromethane	11.967	83	492056	20.064	ppbV		99
43) 1,4-dioxane	12.000	88	245970	20.047	ppbV		100
44) trichloroethene	12.020	130	423844	19.500	ppbV		99
45) 2,2,4-trimethylpentane	12.067	57	1873486	19.592	ppbV		100
46) heptane	12.380	43	702673	20.480	ppbV		96
47) cis-1,3-dichloropropene	13.033	75	550436	20.473	ppbV		96
48) 4-methyl-2-pentanone	13.067	43	814032	20.400	ppbV		99
49) trans-1,3-dichloropropene	13.658	75	439883	20.548	ppbV		96
50) 1,1,2-trichloroethane	13.858	97	400905	19.570	ppbV		97
52) toluene	14.175	91	1225283	20.256	ppbV		100
54) 2-hexanone	14.450	43	771578	21.928	ppbV		98
55) dibromochloromethane	14.625	129	471314	22.356	ppbV		99
56) 1,2-dibromoethane	14.875	107	566353	21.247	ppbV		99
57) tetrachloroethene	15.333	166	505417	20.776	ppbV		100
58) 1,1,1,2-tetrachloroethane	15.967	131	390715	22.087	ppbV		99
59) chlorobenzene	15.983	112	948405	21.006	ppbV		100
60) ethylbenzene	16.333	91	1516838	20.053	ppbV		95
61) m+p-xylene	16.500	91	2432899	39.551	ppbV		95
62) bromoform	16.567	173	453910	23.780	ppbV		98
63) styrene	16.825	104	1065004	21.242	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.917	83	870921	20.998	ppbV		100
65) o-xylene	16.917	91	1208678	19.401	ppbV		95
66) 1,2,3-Trichloropropane	17.025	75	688557	22.707	ppbV		98
68) isopropylbenzene	17.433	105	1604634	21.882	ppbV		98
69) Bromobenzene	17.508	77	908257	22.555	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328244_Ev2.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:03 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

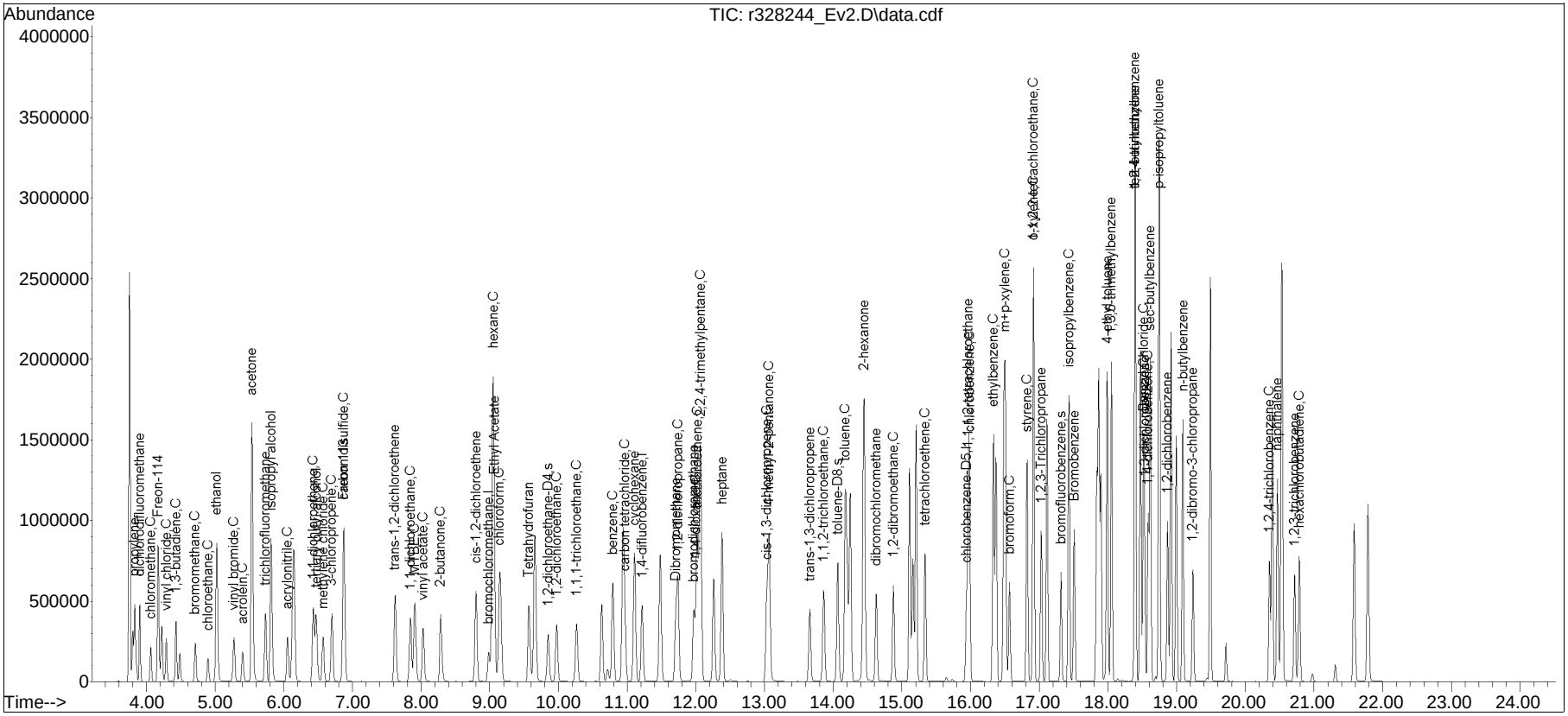
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.992	105	1665086	20.393	ppbV	97
71) 1,3,5-trimethylbenzene	18.050	105	1434258	19.858	ppbV	95
72) tert-butylbenzene	18.392	119	1413584	20.707	ppbV	97
73) 1,2,4-trimethylbenzene	18.392	105	1374401	18.870	ppbV	95
74) Benzyl Chloride	18.517	91	1012169	24.094	ppbV	95
75) 1,3-dichlorobenzene	18.533	146	943620	19.746	ppbV	99
76) 1,4-dichlorobenzene	18.583	146	932837	19.577	ppbV	99
77) sec-butylbenzene	18.617	105	2029602	20.725	ppbV	96
78) p-isopropyltoluene	18.742	119	1691030	20.519	ppbV	96
79) 1,2-dichlorobenzene	18.867	146	901496	19.858	ppbV	98
80) n-butylbenzene	19.092	91	1609494	21.283	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.233	75	383289	23.492	ppbV	96
82) 1,2,4-trichlorobenzene	20.350	180	830807	20.963	ppbV	98
83) naphthalene	20.467	128	1914717	23.819	ppbV	100
84) 1,2,3-trichlorobenzene	20.717	180	749472	24.400	ppbV	96
85) hexachlorobutadiene	20.783	225	718921	18.586	ppbV	97

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328244_Ev2.D
Acq On : 30 Dec 2023 7:17 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD020
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:03 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

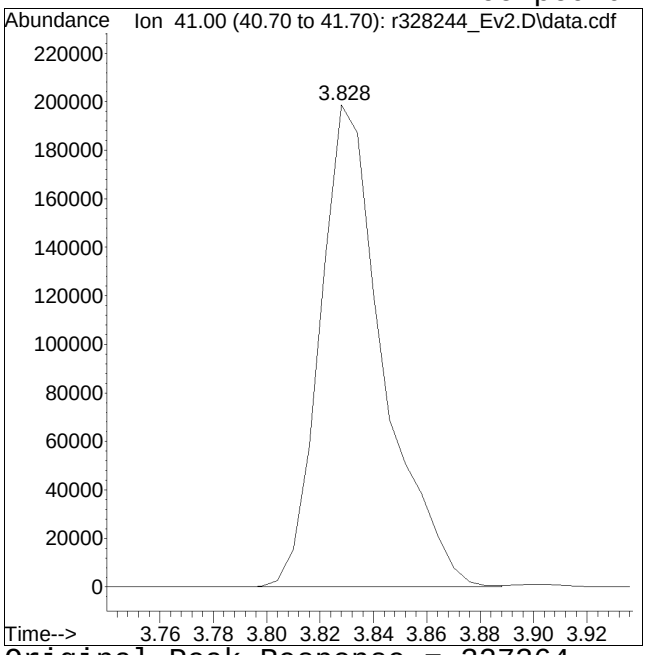


Manual Integration Report

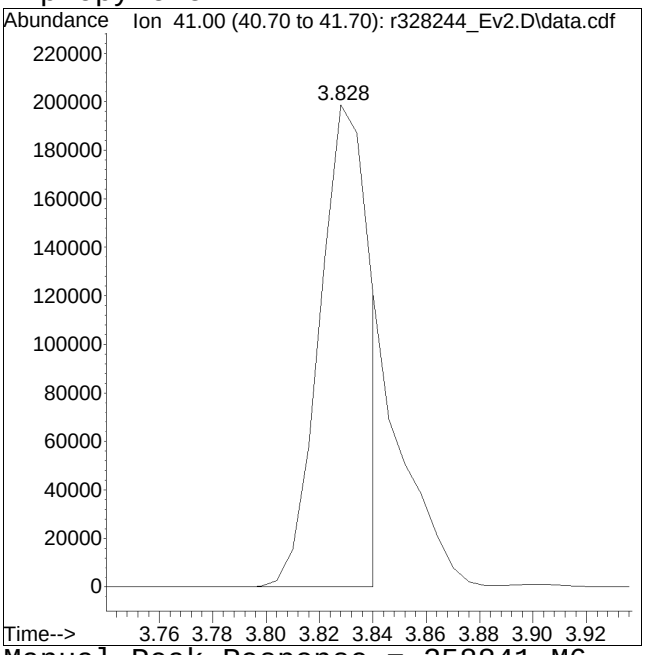
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328244_Ev2.D
Date Inj'd : 12/30/2020 0:7: 7
Sample : ITO15-SIMSTD020

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:18 am

Compound #2: propylene



Original Peak Response = 327364



Manual Peak Response = 258841 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328245_Ev2.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:09 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.983	49	200810	10.000	ppbV	0.00
Standard Area = 176391			Recovery = 113.84%			
33) 1,4-difluorobenzene	11.213	114	647144	10.000	ppbV	0.00
Standard Area = 557342			Recovery = 116.11%			
51) chlorobenzene-D5	15.942	54	83726	10.000	ppbV	# 0.00
Standard Area = 84328			Recovery = 99.29%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.850	65	244133	8.151	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 81.51%			
53) toluene-D8	14.067	98	822548	10.891	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 108.91%			
67) bromofluorobenzene	17.317	95	506036	10.328	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 103.28%			
Target Compounds						Qvalue
2) propylene	3.822	41	640346M6	46.189	ppbV	
3) dichlorodifluoromethane	3.894	85	906329	35.002	ppbV	100
4) chloromethane	4.056	50	508789	40.646	ppbV	100
5) Freon-114	4.164	85	1123107	35.247	ppbV	99
6) vinyl chloride	4.284	62	640767	36.330	ppbV	100
7) 1,3-butadiene	4.422	54	467361	39.149	ppbV	94
8) bromomethane	4.704	94	474923	37.861	ppbV	99
9) chloroethane	4.890	64	339861	38.121	ppbV	98
10) ethanol	5.022	31	1681681	177.153	ppbV	86
11) vinyl bromide	5.267	106	521094	37.827	ppbV	99
12) acrolein	5.393	56	359990	46.527	ppbV	98
13) acetone	5.527	43	4388605	206.775	ppbV	98
14) trichlorofluoromethane	5.727	101	993136	37.652	ppbV	100
15) isopropyl alcohol	5.813	45	3009444	116.491	ppbV	100
16) acrylonitrile	6.050	53	610654	48.253	ppbV	100
17) 1,1-dichloroethene	6.424	61	1038967	40.492	ppbV	95
18) tertiary butyl alcohol	6.466	59	1508723	46.020	ppbV	99
19) methylene chloride	6.562	49	716951	43.645	ppbV	100
20) 3-chloropropene	6.694	41	1141252	48.854	ppbV	93
21) carbon disulfide	6.868	76	2134570	47.589	ppbV	96
22) Freon 113	6.868	101	1169208	41.137	ppbV	98
23) trans-1,2-dichloroethene	7.617	61	1106590	42.839	ppbV	98
24) 1,1-dichloroethane	7.842	63	1412309	43.195	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328245_Ev2.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:09 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.900	73	1885732	45.320	ppbV		98
26) vinyl acetate	8.025	43	1653999	51.038	ppbV		99
27) 2-butanone	8.275	43	1615297	45.850	ppbV		99
28) cis-1,2-dichloroethene	8.792	61	1033754	42.036	ppbV		98
29) Ethyl Acetate	9.058	61	295028	45.868	ppbV		84
30) chloroform	9.142	83	1073420	40.890	ppbV		99
31) Tetrahydrofuran	9.558	42	1065994	49.600	ppbV		99
32) 1,2-dichloroethane	9.967	62	718781	36.785	ppbV	#	93
34) hexane	9.042	57	1273723	39.739	ppbV		83
36) 1,1,1-trichloroethane	10.258	97	959845	38.695	ppbV		99
37) benzene	10.787	78	2515605	44.747	ppbV		98
38) carbon tetrachloride	10.960	117	813329	39.732	ppbV		99
39) cyclohexane	11.107	56	1415734	42.543	ppbV		93
40) Dibromomethane	11.707	93	683008	44.595	ppbV	#	95
41) 1,2-dichloropropane	11.740	63	1016378	43.213	ppbV		97
42) bromodichloromethane	11.967	83	1123198	43.430	ppbV		99
43) 1,4-dioxane	12.000	88	584073	45.141	ppbV		93
44) trichloroethene	12.020	130	979802	42.747	ppbV		98
45) 2,2,4-trimethylpentane	12.060	57	4138323	41.038	ppbV		98
46) heptane	12.380	43	1682883	46.511	ppbV		94
47) cis-1,3-dichloropropene	13.033	75	1328240	46.846	ppbV		93
48) 4-methyl-2-pentanone	13.067	43	1945069	46.224	ppbV		97
49) trans-1,3-dichloropropene	13.658	75	1052196	46.607	ppbV		93
50) 1,1,2-trichloroethane	13.858	97	926898	42.905	ppbV		93
52) toluene	14.175	91	2758467	47.047	ppbV		100
54) 2-hexanone	14.458	43	1795549	52.646	ppbV		97
55) dibromochloromethane	14.625	129	1065342	52.134	ppbV		98
56) 1,2-dibromoethane	14.875	107	1265590	48.985	ppbV		99
57) tetrachloroethene	15.333	166	1084163	45.980	ppbV		97
58) 1,1,1,2-tetrachloroethane	15.967	131	863496	50.360	ppbV		97
59) chlorobenzene	15.983	112	2075548	47.427	ppbV		97
60) ethylbenzene	16.333	91	3373725	46.016	ppbV		94
61) m+p-xylene	16.500	91	5220376	87.556	ppbV		97
62) bromoform	16.567	173	1027548	55.538	ppbV		97
63) styrene	16.825	104	2369956	48.768	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.917	83	1960218	48.759	ppbV		99
65) o-xylene	16.917	91	2516547	41.675	ppbV		96
66) 1,2,3-Trichloropropane	17.025	75	1588685	54.051	ppbV		97
68) isopropylbenzene	17.433	105	3370972	47.426	ppbV		92
69) Bromobenzene	17.508	77	2034607	52.127	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328245_Ev2.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:09 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

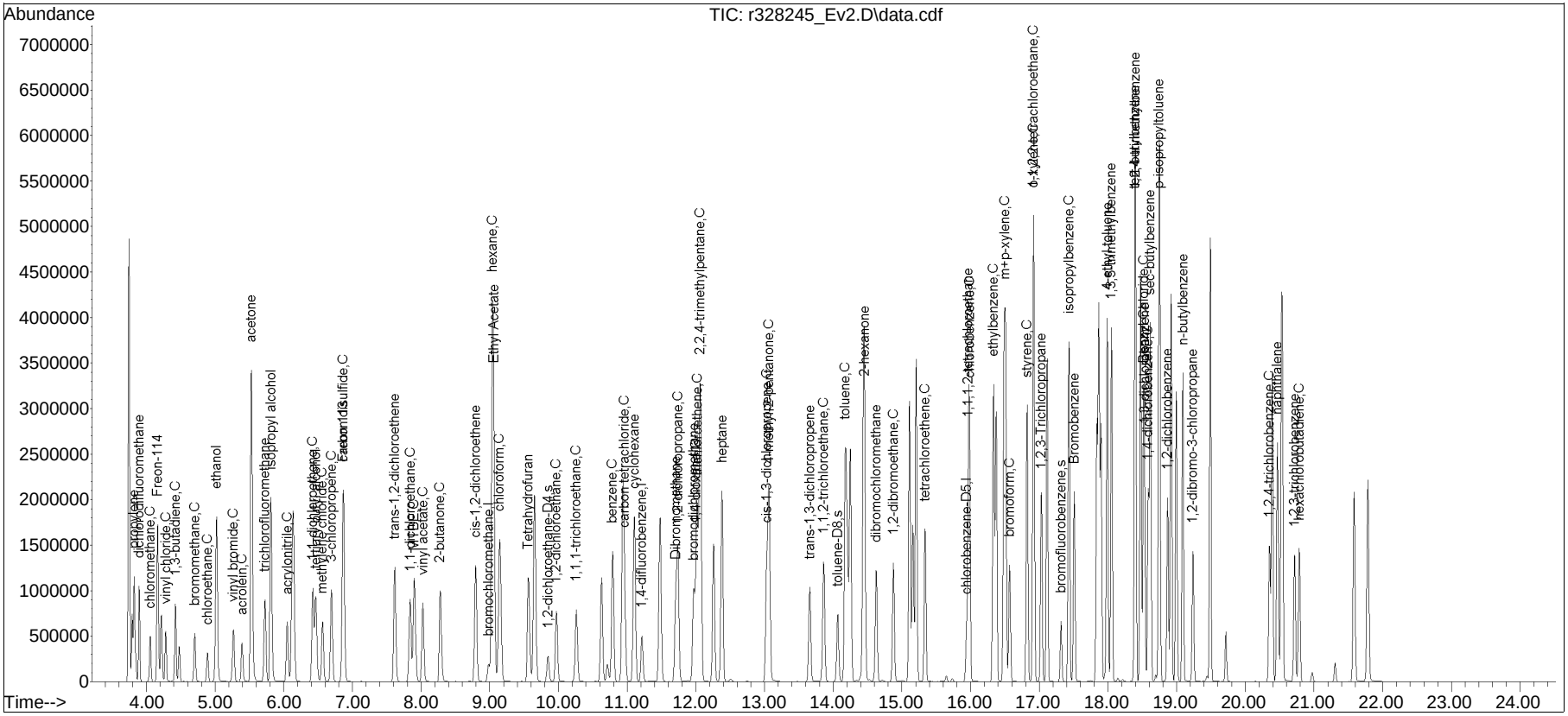
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.992	105	3482323	44.001	ppbV		93
71) 1,3,5-trimethylbenzene	18.050	105	2987156	42.670	ppbV		90
72) tert-butylbenzene	18.392	119	2733062	41.305	ppbV		90
73) 1,2,4-trimethylbenzene	18.400	105	2634995	37.325	ppbV		92
74) Benzyl Chloride	18.517	91	2315060	56.855	ppbV		93
75) 1,3-dichlorobenzene	18.533	146	1972071	42.574	ppbV		96
76) 1,4-dichlorobenzene	18.583	146	1979928	42.870	ppbV		97
77) sec-butylbenzene	18.617	105	4103973	43.236	ppbV	#	89
78) p-isopropyltoluene	18.742	119	3154541	39.491	ppbV		90
79) 1,2-dichlorobenzene	18.867	146	1936013	43.997	ppbV		97
80) n-butylbenzene	19.092	91	3421881	46.683	ppbV		95
81) 1,2-dibromo-3-chloropr...	19.233	75	829046	52.424	ppbV		94
82) 1,2,4-trichlorobenzene	20.350	180	1833040	47.718	ppbV		97
83) naphthalene	20.467	128	4155411	53.332	ppbV		99
84) 1,2,3-trichlorobenzene	20.717	180	1657205	55.663	ppbV		95
85) hexachlorobutadiene	20.783	225	1438638	38.372	ppbV		93

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328245_Ev2.D
Acq On : 30 Dec 2023 7:57 PM
Operator : AIRPIANO3:JMB
Sample : ITO15-SIMSTD050
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Dec 31 10:18:09 2023
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Sun Dec 31 10:13:38 2023
Response via : Initial Calibration

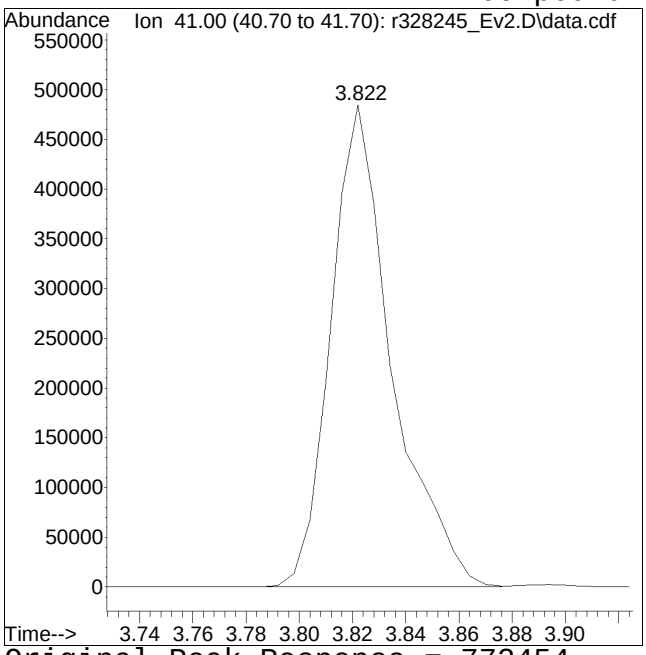


Manual Integration Report

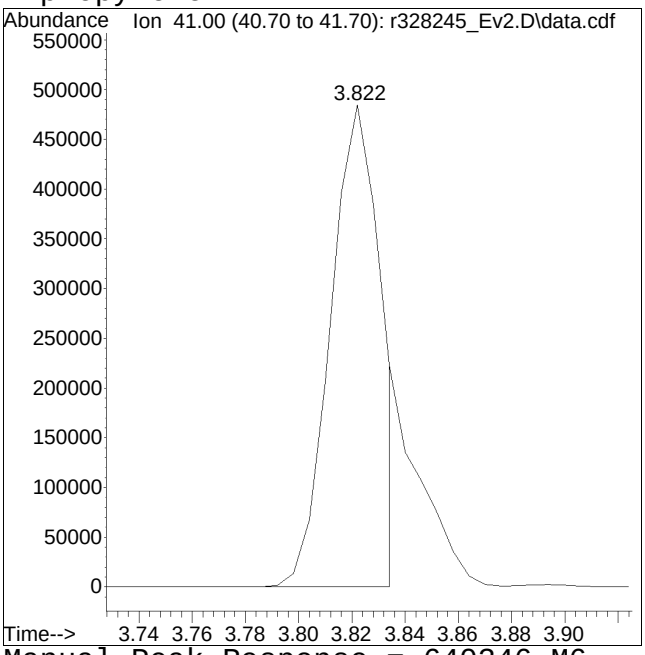
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328245_Ev2.D
Date Inj'd : 12/30/2020 0:7: 7
Sample : ITO15-SIMSTD050

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 12/31/2023 10:18 am

Compound #2: propylene



Original Peak Response = 772454



Manual Peak Response = 640346 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	107	-0.02
2		propylene	0.683	0.816	-19.5	126	-0.01
3		dichlorodifluoromethane	1.207	0.982	18.6	81	-0.02
4	C	chloromethane	0.603	0.521	13.6	89	-0.01
5		Freon-114	1.501	1.385	7.7	93	-0.02
6	C	vinyl chloride	0.835	0.651	22.0	79	-0.02
7	C	1,3-butadiene	0.576	0.528	8.3	95	-0.02
8	C	bromomethane	0.618	0.504	18.4	86	-0.02
9	C	chloroethane	0.433	0.347	19.9	84	-0.02
10		ethanol	0.460	0.405	12.0	92	-0.02
11	C	vinyl bromide	0.654	0.693	-6.0	108	-0.02
12	C	acrolein	0.380	0.351	7.6	97	-0.02
13		acetone	1.057	1.062	-0.5	107	-0.02
14		trichlorofluoromethane	1.277	1.028	19.5	84	-0.02
15		isopropyl alcohol	1.273	1.320	-3.7	110	-0.02
16	C	acrylonitrile	0.631	0.614	2.7	104	-0.02
17	C	1,1-dichloroethene	1.233	1.120	9.2	94	-0.02
18		tertiary butyl alcohol	1.633	1.481	9.3	97	-0.02
19	C	methylene chloride	0.799	0.805	-0.8	105	-0.02
20	C	3-chloropropene	1.153	1.446	-25.4	133	-0.02
21	C	carbon disulfide	2.192	2.489	-13.5	119	-0.02
22		Freon 113	1.426	1.356	4.9	102	-0.02
23		trans-1,2-dichloroethene	1.241	1.200	3.3	100	-0.03
24	C	1,1-dichloroethane	1.597	1.510	5.4	99	-0.03
25	C	MTBE	2.011	2.207	-9.7	114	-0.03
26	C	vinyl acetate	1.637	1.691	-3.3	112	-0.03
27	C	2-butanone	1.666	1.899	-14.0	116	-0.02
28		cis-1,2-dichloroethene	1.178	1.106	6.1	96	-0.03
29		Ethyl Acetate	0.304	0.340	-11.8	113	-0.03
30	C	chloroform	1.282	1.168	8.9	95	-0.03
31		Tetrahydrofuran	1.046	1.239	-18.5	124	-0.02
32	C	1,2-dichloroethane	0.960	0.714	25.6	78	-0.03
33	I	1,4-difluorobenzene	1.000	1.000	0.0	113	-0.03
34	C	hexane	0.477	0.453	5.0	104	-0.03
35	s	1,2-dichloroethane-D4	0.444	0.348	21.6	85	-0.03
36	C	1,1,1-trichloroethane	0.366	0.291	20.5	86	-0.03
37	C	benzene	0.871	0.837	3.9	109	-0.03
38	C	carbon tetrachloride	0.294	0.254	13.6	91	-0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		cyclohexane	0.500	0.481	3.8	106	-0.03
40		Dibromomethane	0.237	0.211	11.0	101	-0.03
41	C	1,2-dichloropropane	0.349	0.333	4.6	104	-0.03
42		bromodichloromethane	0.369	0.384	-4.1	109	-0.03
43	C	1,4-dioxane	0.188	0.198	-5.3	112	-0.03
44	C	trichloroethene	0.335	0.313	6.6	100	-0.03
45	C	2,2,4-trimethylpentane	1.611	1.506	6.5	109	-0.03
46		heptane	0.551	0.623	-13.1	126	-0.02
47	C	cis-1,3-dichloropropene	0.387	0.436	-12.7	113	-0.03
48	C	4-methyl-2-pentanone	0.624	0.713	-14.3	124	-0.03
49		trans-1,3-dichloropropene	0.285	0.328	-15.1	107	-0.03
50	C	1,1,2-trichloroethane	0.313	0.302	3.5	102	-0.03
51	I	chlorobenzene-D5	1.000	1.000	0.0	90	-0.03
52	C	toluene	6.898	7.587	-10.0	98	-0.02
53	s	toluene-D8	9.240	10.489	-13.5	105	-0.03
54		2-hexanone	3.779	5.376	-42.3#	119	-0.02
55		dibromochloromethane	2.182	3.081	-41.2#	114	-0.02
56	C	1,2-dibromoethane	2.853	3.573	-25.2	105	-0.02
57	C	tetrachloroethene	2.803	3.141	-12.1	101	-0.03
58		1,1,1,2-tetrachloroethane	2.052	2.289	-11.5	101	-0.02
59	C	chlorobenzene	5.059	6.200	-22.6	107	-0.02
60	C	ethylbenzene	8.347	9.392	-12.5	97	-0.02
61	C	m+p-xylene	6.670	7.609	-14.1	96	-0.02
62	C	bromoform	1.875	2.985	-59.2#	122	-0.02
63	C	styrene	5.108	6.898	-35.0#	107	-0.02
64	C	1,1,2,2-tetrachloroethane	4.482	5.583	-24.6	105	-0.02
65	C	o-xylene	6.772	7.734	-14.2	97	-0.02
66		1,2,3-Trichloropropane	3.516	4.332	-23.2	111	-0.03
67	s	bromofluorobenzene	5.862	6.428	-9.7	99	-0.02
68	C	isopropylbenzene	8.601	10.472	-21.8	111	-0.02
69		Bromobenzene	4.779	5.730	-19.9	111	-0.02
70		4-ethyl toluene	8.308	11.524	-38.7#	110	-0.02
71		1,3,5-trimethylbenzene	7.642	9.560	-25.1	103	-0.02
72		tert-butylbenzene	7.755	9.002	-16.1	103	-0.02
73		1,2,4-trimethylbenzene	7.417	9.438	-27.2	101	0.00
74	C	Benzyl Chloride	4.200	6.131	-46.0#	114	-0.02
75		1,3-dichlorobenzene	4.608	6.119	-32.8#	100	-0.02
76	C	1,4-dichlorobenzene	4.532	6.173	-36.2#	101	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		sec-butylbenzene	11.064	13.106	-18.5	104	-0.02
78		p-isopropyltoluene	9.281	10.022	-8.0	95	0.00
79		1,2-dichlorobenzene	4.681	5.743	-22.7	99	0.00
80		n-butylbenzene	8.630	10.002	-15.9	103	0.00
81		1,2-dibromo-3-chloropropane	1.699	2.204	-29.7	105	0.02
82	C	1,2,4-trichlorobenzene	3.799	4.844	-27.5	95	0.04
83		naphthalene	9.035	11.422	-26.4	111	0.04
84		1,2,3-trichlorobenzene	3.485	4.485	-28.7	114	0.04
85	C	hexachlorobutadiene	4.015	4.574	-13.9	92	0.04

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 4

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.958	49	188408	10.000	ppbV	-0.02
Standard Area = 176391			Recovery = 106.81%			
33) 1,4-difluorobenzene	11.193	114	631252	10.000	ppbV	-0.03
Standard Area = 557342			Recovery = 113.26%			
51) chlorobenzene-D5	15.917	54	76131	10.000	ppbV	-0.03
Standard Area = 84328			Recovery = 90.28%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.825	65	219850	7.836	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 78.36%			
53) toluene-D8	14.042	98	798554	11.352	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 113.52%			
67) bromofluorobenzene	17.300	95	489341	10.965	ppbV	-0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 109.65%			
Target Compounds						Qvalue
2) propylene	3.816	41	76878M6	5.977	ppbV	
3) dichlorodifluoromethane	3.888	85	92465	4.065	ppbV	99
4) chloromethane	4.050	50	49085	4.324	ppbV	99
5) Freon-114	4.152	85	130476	4.614	ppbV	93
6) vinyl chloride	4.272	62	61367	3.900	ppbV	99
7) 1,3-butadiene	4.416	54	49705	4.583	ppbV	97
8) bromomethane	4.692	94	47453	4.076	ppbV	99
9) chloroethane	4.878	64	32721	4.009	ppbV	96
10) ethanol	5.004	31	190754	21.999	ppbV	85
11) vinyl bromide	5.257	106	65329	5.302	ppbV	100
12) acrolein	5.383	56	33098	4.628	ppbV	97
13) acetone	5.517	43	500182	25.117	ppbV	96
14) trichlorofluoromethane	5.713	101	96855	4.025	ppbV	99
15) isopropyl alcohol	5.793	45	310763	12.959	ppbV	98
16) acrylonitrile	6.033	53	57885	4.866	ppbV	100
17) 1,1-dichloroethene	6.406	61	105507	4.541	ppbV	94
18) tertiary butyl alcohol	6.454	59	139479	4.535	ppbV	97
19) methylene chloride	6.550	49	75815	5.037	ppbV	96
20) 3-chloropropene	6.676	41	136201	6.267	ppbV	91
21) carbon disulfide	6.850	76	234435	5.678	ppbV	96
22) Freon 113	6.850	101	127779	4.757	ppbV	99
23) trans-1,2-dichloroethene	7.600	61	113080	4.838	ppbV	95
24) 1,1-dichloroethane	7.817	63	142212	4.727	ppbV	99

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.892	73	207872	5.487	ppbV		94
26) vinyl acetate	8.008	43	159325	5.166	ppbV		98
27) 2-butanone	8.267	43	178935	5.700	ppbV		98
28) cis-1,2-dichloroethene	8.775	61	104152	4.692	ppbV		94
29) Ethyl Acetate	9.042	61	32019	5.591	ppbV		92
30) chloroform	9.108	83	110056	4.556	ppbV		98
31) Tetrahydrofuran	9.550	42	116707	5.922	ppbV		99
32) 1,2-dichloroethane	9.950	62	67240	3.717	ppbV	#	92
34) hexane	9.025	57	142892	4.741	ppbV	#	75
36) 1,1,1-trichloroethane	10.242	97	91815	3.976	ppbV	#	96
37) benzene	10.767	78	264045	4.803	ppbV		94
38) carbon tetrachloride	10.940	117	80253	4.325	ppbV		99
39) cyclohexane	11.080	56	151855	4.815	ppbV		91
40) Dibromomethane	11.680	93	66493	4.436	ppbV	#	92
41) 1,2-dichloropropane	11.713	63	105204	4.773	ppbV		97
42) bromodichloromethane	11.940	83	121061	5.198	ppbV		98
43) 1,4-dioxane	11.987	88	62648	5.279	ppbV		94
44) trichloroethene	11.993	130	98711	4.662	ppbV		99
45) 2,2,4-trimethylpentane	12.040	57	475340	4.674	ppbV		98
46) heptane	12.360	43	196517	5.653	ppbV		90
47) cis-1,3-dichloropropene	13.008	75	137465	5.624	ppbV		93
48) 4-methyl-2-pentanone	13.042	43	224976	5.709	ppbV		91
49) trans-1,3-dichloropropene	13.633	75	103589	5.767	ppbV		94
50) 1,1,2-trichloroethane	13.842	97	95191	4.816	ppbV		94
52) toluene	14.158	91	288818	5.500	ppbV		99
54) 2-hexanone	14.442	43	204647	7.113	ppbV		92
55) dibromochloromethane	14.608	129	117281	7.060	ppbV		100
56) 1,2-dibromoethane	14.858	107	136011	6.261	ppbV		99
57) tetrachloroethene	15.317	166	119551	5.603	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.950	131	87125	5.577	ppbV		99
59) chlorobenzene	15.967	112	235993	6.127	ppbV		97
60) ethylbenzene	16.317	91	357493	5.626	ppbV		93
61) m+p-xylene	16.475	91	579297	11.408	ppbV		92
62) bromoform	16.550	173	113608	7.960	ppbV		99
63) styrene	16.808	104	262594	6.753	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.900	83	212534	6.228	ppbV		100
65) o-xylene	16.900	91	294414	5.711	ppbV		93
66) 1,2,3-Trichloropropane	17.008	75	164905	6.160	ppbV		96
68) isopropylbenzene	17.417	105	398627	6.088	ppbV		100
69) Bromobenzene	17.492	77	218132	5.996	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\r328242_Ev2.D
Sub List : Default - All compounds listed

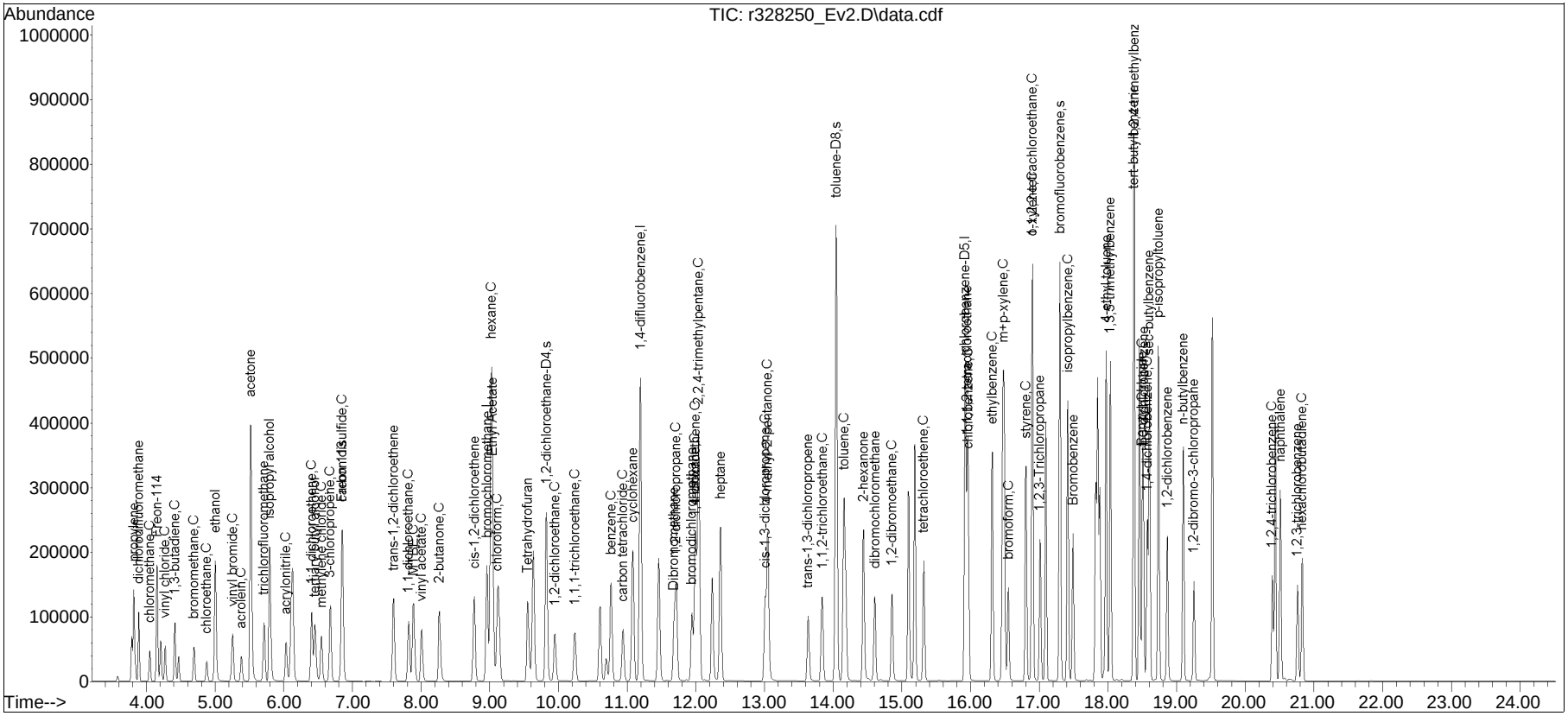
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.975	105	438668	6.936	ppbV		99
71) 1,3,5-trimethylbenzene	18.033	105	363909	6.255	ppbV		99
72) tert-butylbenzene	18.375	119	342683	5.804	ppbV		100
73) 1,2,4-trimethylbenzene	18.383	105	359251	6.362	ppbV	#	88
74) Benzyl Chloride	18.500	91	233380	7.299	ppbV		99
75) 1,3-dichlorobenzene	18.517	146	232934	6.640	ppbV		98
76) 1,4-dichlorobenzene	18.575	146	234987	6.811	ppbV		94
77) sec-butylbenzene	18.600	105	498890	5.923	ppbV		95
78) p-isopropyltoluene	18.733	119	381506	5.400	ppbV		97
79) 1,2-dichlorobenzene	18.867	146	218599	6.134	ppbV		96
80) n-butylbenzene	19.092	91	380721	5.795	ppbV		92
81) 1,2-dibromo-3-chloropr...	19.250	75	83913	6.488	ppbV		95
82) 1,2,4-trichlorobenzene	20.392	180	184394	6.375	ppbV		99
83) naphthalene	20.508	128	434775	6.321	ppbV		99
84) 1,2,3-trichlorobenzene	20.758	180	170741	6.435	ppbV		97
85) hexachlorobutadiene	20.825	225	174125	5.697	ppbV		98

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

Sub List : Default - All compounds listed23\12\1230SIM_I\r328242_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\
Data File : r328250_Ev2.D
Acq On : 31 Dec 2023 12:35 PM
Operator : AIRPIANO3:JMB
Sample : CTO15-SIMSTD5.0
Misc : WG1874985
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 16 17:55:27 2024
Quant Method : O:\Forensics\Data\Airpiano3\2023\12\1230SIM_I\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

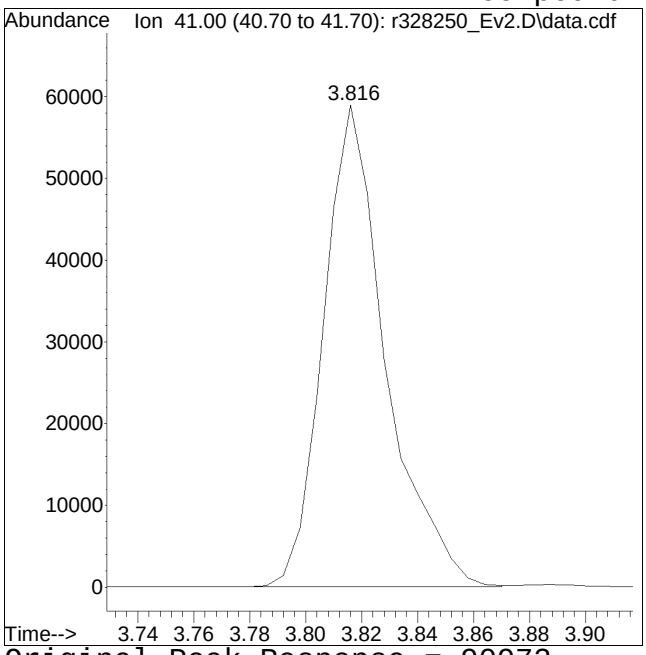


Manual Integration Report

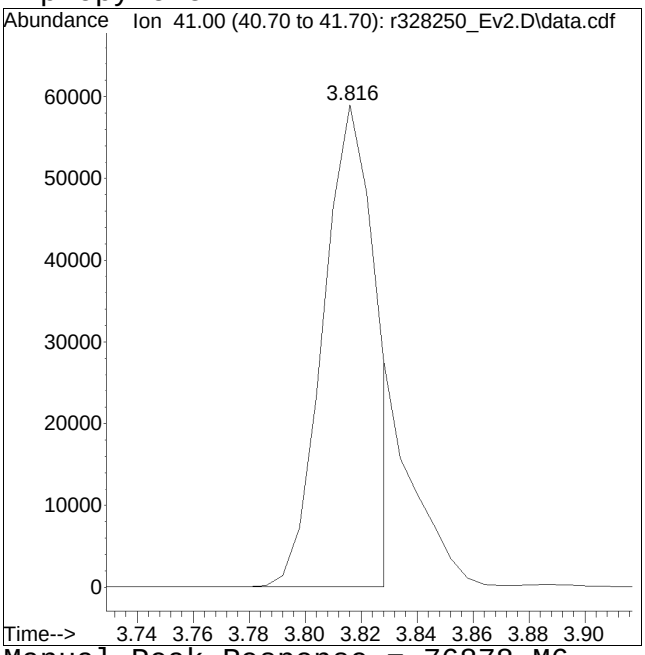
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r328250_Ev2.D
Date Inj'd : 12/31/2020 0:2: 5
Sample : CTO15-SIMSTD5.0

Method : TSIM3_231230.M
Operator : AIRPIANO3:JMB
Instrument :
Quant Date : 1/16/2024 5:55 pm

Compound #2: propylene



Original Peak Response = 90972



Manual Peak Response = 76878 M6

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

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
1)	I	bromochloromethane	ISTD											
2)		propylene						0.644	0.563	0.456	0.422	0.417	0.394	0.483	20.53
3)		dichlorodifluo...				1.138	1.063	1.054	1.052	1.025	0.987	0.904	1.032	7.05
4)	C	chloromethane				0.568	0.520	0.526	0.522	0.520	0.499	0.465	0.517	5.98
5)		Freon-114			1.311	1.268	1.404	1.306	1.297	1.287	1.274	1.207	1.075	1.270	7.04
6)	C	vinyl chloride		0.493	0.595	0.543	0.607	0.559	0.549	0.545	0.543	0.528	0.495	0.546	6.71
7)	C	1,3-butadiene		0.425	0.440	0.434	0.498	0.459	0.461	0.452	0.453	0.443	0.406	0.447	5.46
8)	C	bromomethane		0.460	0.496	0.487	0.520	0.481	0.475	0.472	0.472	0.463	0.430	0.476	4.95
9)	C	chloroethane			0.245	0.255	0.279	0.255	0.252	0.246	0.247	0.242	0.228	0.250	5.37
10)		ethanol							0.514	0.438	0.395	0.403	0.354	0.421	14.34
11)	C	vinyl bromide			0.506	0.478	0.481	0.489	0.481	0.471	0.470	0.471	0.438	0.476	3.81
12)	C	acrolein			0.440	0.289	0.280	0.259	0.243	0.232	0.233	0.250	0.237	0.274	23.92
13)		acetone					0.787	0.706	0.698	0.603	0.600	0.603	0.546	0.649	12.92
14)		trichlorofluor...			0.949	0.999	0.934	0.865	0.854	0.854	0.850	0.833	0.767	0.879	7.98
15)		isopropyl alcohol					0.901	0.836	0.842	0.834	0.836	0.843	0.768	0.837	4.60
16)	C	acrylonitrile					0.545	0.459	0.469	0.439	0.449	0.472	0.450	0.469	7.58

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
17)	C	1,1-dichloroet...	0.629	0.748	0.683	0.763	0.710	0.708	0.699	0.698	0.698	0.644	0.698	5.85
18)		tertiary butyl...					0.993	0.977	0.915	0.911	0.959	0.907	0.944	3.96
19)	C	methylene chlo...					0.693	0.671	0.650	0.648	0.740	0.680	0.680	4.98
20)	C	3-chloropropene		0.769	0.697	0.786	0.738	0.744	0.746	0.749	0.749	0.688	0.741	4.19
21)	C	carbon disulfide				1.940	1.769	1.767	1.798	1.813	1.810	1.640	1.791	4.93
22)		Freon 113		1.140	1.103	1.193	1.092	1.091	1.085	1.080	1.052	0.958	1.088	5.84
23)		trans-1,2-dich...	0.594	0.731	0.724	0.789	0.733	0.737	0.728	0.729	0.725	0.672	0.716	7.15
24)	C	1,1-dichloroet...	0.834	0.873	0.912	1.012	0.928	0.927	0.926	0.926	0.910	0.836	0.909	5.70
25)	C	MTBE	1.073	1.257	1.278	1.491	1.392	1.382	1.363	1.365	1.360	1.264	1.323	8.50
26)	C	vinyl acetate					1.256	1.266	1.234	1.260	1.291	1.194	1.250	2.65
27)	C	2-butanone					1.260	1.253	1.248	1.265	1.259	1.169	1.242	2.92
28)		cis-1,2-dichlo...	0.617	0.703	0.706	0.767	0.701	0.686	0.692	0.693	0.682	0.630	0.688	6.04
29)		Ethyl Acetate					0.178	0.173	0.176	0.178	0.179	0.170	0.176	2.03
30)	C	chloroform	0.925	1.028	1.011	1.125	1.024	1.011	1.003	1.001	0.982	0.904	1.001	6.00
31)		Tetrahydrofuran					0.697	0.693	0.705	0.710	0.711	0.663	0.697	2.59
32)	C	1,2-dichloroet...	0.627	0.559	0.533	0.676	0.580	0.558	0.543	0.543	0.527	0.485	0.563	9.60

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
33)	I	1,4-difluorobenzene	----------ISTD----------											
34)	C	hexane				0.333	0.307	0.306	0.299	0.300	0.302	0.285	0.305	4.79
35)	s	1,2-dichloroet...				0.292	0.285	0.295	0.291	0.286	0.286	0.280	0.288	1.77
36)	C	1,1,1-trichlor...	0.259	0.268	0.273	0.302	0.279	0.280	0.280	0.284	0.307	0.281	0.281	5.08
37)	C	benzene		0.834	0.799	0.800	0.729	0.729	0.721	0.728	0.717	0.665	0.747	7.09
38)	C	carbon tetrach...	0.255	0.283	0.279	0.297	0.271	0.267	0.277	0.285	0.288	0.274	0.277	4.32
39)		cyclohexane				0.370	0.340	0.330	0.322	0.323	0.327	0.310	0.332	5.72
40)		Dibromomethane		0.243	0.234	0.226	0.206	0.203	0.191	0.194	0.204	0.192	0.210	9.12
41)	C	1,2-dichloropr...	0.273	0.244	0.235	0.250	0.223	0.221	0.220	0.223	0.220	0.207	0.232	8.31
42)		bromodichlorom...	0.286	0.348	0.315	0.340	0.327	0.327	0.337	0.347	0.355	0.339	0.332	6.00
43)	C	1,4-dioxane			0.144	0.150	0.139	0.136	0.138	0.140	0.143	0.138	0.141	3.26
44)	C	trichloroethene	0.254	0.303	0.273	0.319	0.295	0.296	0.296	0.300	0.298	0.282	0.291	6.17
45)	C	2,2,4-trimethy...				1.206	1.118	1.105	0.958	0.961	0.968	0.902	1.031	10.81
46)		heptane				0.460	0.437	0.446	0.434	0.441	0.439	0.405	0.437	3.84
47)	C	cis-1,3-dichlo...	0.310	0.320	0.315	0.359	0.347	0.349	0.362	0.371	0.370	0.349	0.345	6.52
48)	C	4-methyl-2-pen...					0.519	0.512	0.520	0.530	0.537	0.498	0.519	2.64

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
49)		trans-1,3-dich...	0.221	0.237	0.239	0.278	0.266	0.267	0.285	0.295	0.296	0.283	0.267	9.74
50)	C	1,1,2-trichlor...	0.255	0.226	0.242	0.271	0.255	0.254	0.254	0.257	0.255	0.237	0.251	4.97
51)	I	chlorobenzene-D5	----------ISTD----------											
52)	C	toluene			6.421	6.535	6.153	6.104	6.033	6.031	5.946	5.428	6.081	5.48
53)	s	toluene-D8				8.106	7.990	8.274	8.111	7.978	7.963	7.765	8.027	1.97
54)		2-hexanone				3.223	3.357	3.568	3.791	3.905	3.953	3.613	3.630	7.55
55)		dibromochlorom...	2.296	2.321	2.204	2.590	2.431	2.489	2.667	2.795	2.871	2.700	2.536	8.85
56)	C	1,2-dibromoethane	2.525	2.899	2.896	3.368	3.191	3.191	3.225	3.254	3.189	2.905	3.064	8.24
57)	C	tetrachloroethene	2.313	2.353	2.487	2.575	2.364	2.357	2.325	2.327	2.275	2.110	2.349	5.23
58)		1,1,1,2-tetrac...	1.782	2.033	2.045	2.198	2.140	2.181	2.090	2.144	2.277	2.114	2.100	6.35
59)	C	chlorobenzene	4.776	4.872	5.159	5.739	5.413	5.399	5.364	5.374	5.224	4.779	5.210	6.06
60)	C	ethylbenzene	6.542	7.181	7.377	8.193	7.607	7.623	7.681	7.803	7.557	6.872	7.444	6.38
61)	C	m+p-xylene	5.419	5.658	5.855	6.459	6.031	6.070	6.013	6.175	5.949	5.402	5.903	5.62
62)	C	bromoform	1.547	1.508	1.406	1.616	1.597	1.667	1.902	2.031	2.155	2.076	1.751	15.23
63)	C	styrene	3.871	4.269	4.650	5.307	5.045	5.127	5.243	5.359	5.191	4.724	4.879	10.13
64)	C	1,1,2,2-tetrac...	3.748	4.056	4.226	4.823	4.585	4.559	4.525	4.564	4.465	4.124	4.368	7.34

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
65)	C	o-xylene	5.475	5.779	5.897	6.482	6.154	6.131	6.099	6.177	5.965	5.408	5.957	5.54
66)		1,2,3-Trichlor...	3.201	3.272	3.369	3.904	3.615	3.632	3.349	3.367	3.558	3.312	3.458	6.20
67)	s	bromofluoroben...				4.841	4.828	5.084	5.004	4.983	4.964	4.713	4.917	2.59
68)	C	isopropylbenzene				8.935	8.450	8.394	7.802	7.763	8.042	7.220	8.086	6.93
69)		Bromobenzene	3.871	3.971	4.181	4.793	4.661	4.613	4.296	4.311	4.570	4.205	4.347	7.02
70)		4-ethyl toluene	6.123	7.537	7.869	9.011	8.485	8.554	8.342	8.351	8.247	7.434	7.995	10.16
71)		1,3,5-trimethy...	6.000	6.439	6.624	7.767	7.461	7.367	7.262	7.220	6.949	6.266	6.935	8.34
72)		tert-butylbenzene				7.956	7.478	7.450	6.885	6.814	7.100	6.488	7.167	6.90
73)		1,2,4-trimethy...	5.681	6.297	6.791	7.683	7.371	7.350	7.313	7.239	6.988	6.193	6.891	9.29
74)	C	Benzyl Chloride			2.600	3.076	3.183	3.418	3.792	4.168	4.567	4.545	3.668	19.63
75)		1,3-dichlorobe...	3.100	3.529	3.749	4.362	4.111	4.278	4.323	4.416	4.266	4.063	4.020	10.69
76)	C	1,4-dichlorobe...	2.883	3.265	3.682	4.230	3.917	4.036	4.205	4.326	4.237	3.936	3.872	12.16
77)		sec-butylbenzene				1.143	1.072	1.077	0.975	0.970	0.998	0.902	1.020	7.98
78)		p-isopropyltol...				9.424	8.969	8.994	8.189	8.199	8.488	7.776	8.577	6.71
79)		1,2-dichlorobe...	3.452	3.504	3.704	4.226	4.018	4.070	4.015	4.129	4.026	3.802	3.895	6.82
80)		n-butylbenzene				7.811	7.590	7.753	7.058	7.113	7.504	6.941	7.396	4.78

Response Factor Report

Method Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Method File : TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024
Response Via : Initial Calibration

Calibration Files
0.02=r1737673_Ev2.D 0.05=r1737674_Ev2.D 0.1 =r1737675_Ev2.D 0.2 =r1737676_Ev2.D 0.5 =r1737677_Ev2.D
1.0 =r1737678_Ev2.D 5.0 =r1737679_Ev2.D 10.0=r1737680_Ev2.D 20.0=r1737681_Ev2.D 50.0=r1737682_Ev2.D

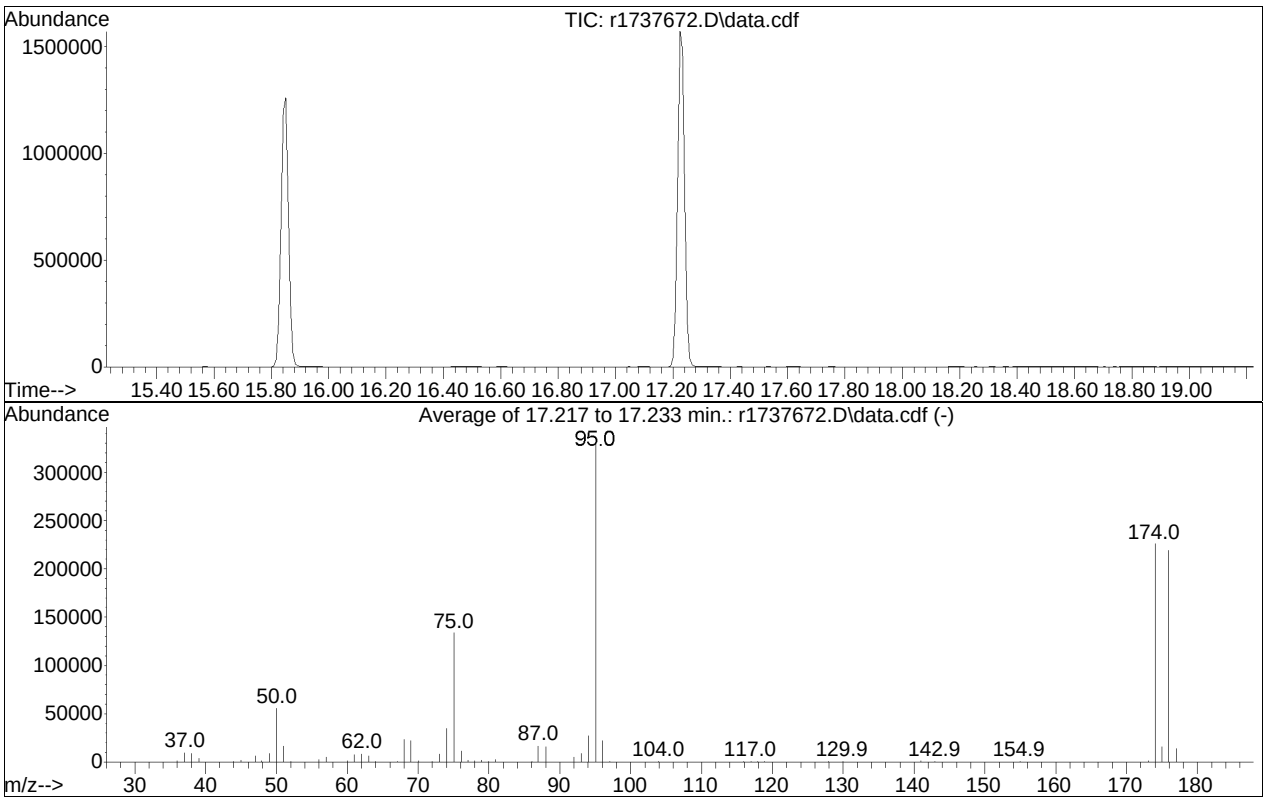
		Compound	0.02	0.05	0.1	0.2	0.5	1.0	5.0	10.0	20.0	50.0	Avg	%RSD
81)		1,2-dibromo-3-...	0.911	1.187	1.315	1.477	1.532	1.649	1.533	1.639	1.817	1.777	1.484	18.78
82)	C	1,2,4-trichlor...		1.881	2.038	2.131	2.313	2.479	2.637	2.940	2.832	2.908	2.462	16.02
83)		naphthalene		7.115	6.791	7.395	7.331	7.923	6.796	7.429	8.181	8.402	7.485	7.68
84)		1,2,3-trichlor...		1.824	1.997	2.012	2.225	2.342	1.970	2.224	2.453	2.586	2.182	11.48
85)	C	hexachlorobuta...		2.452	2.535	2.520	2.577	2.551	2.576	2.668	2.448	2.389	2.524	3.33

(#) = Out of Range

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737672.D
Acq On : 7 Jan 2024 7:44 PM
Operator : AIRLAB17:RAY
Sample : WG1872081-1,3,250,250
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024



Spectrum Information: Average of 17.217 to 17.233 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.8	55512	PASS
75	95	30	66	40.4	133582	PASS
95	95	100	100	100.0	330622	PASS
96	95	5	9	6.7	22066	PASS
173	174	0.00	2	0.6	1325	PASS
174	95	50	120	68.5	226367	PASS
175	174	4	9	7.0	15800	PASS
176	174	93	101	96.7	218996	PASS
177	176	5	9	6.5	14291	PASS

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737673_Ev2.D
Acq On : 7 Jan 2024 8:20 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.842	49	243275	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 95.51%			
33) 1,4-difluorobenzene	11.077	114	709106	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 96.17%			
51) chlorobenzene-D5	15.833	54	89505	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 97.30%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.708	65	163	0.008	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.08%#			
53) toluene-D8	13.933	98	17812	0.245	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.45%#			
67) bromofluorobenzene	17.225	95	7066	0.158	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.58%#			
Target Compounds						Qvalue
2) propylene	3.802	41	3143M6	0.283	ppbV	
3) dichlorodifluoromethane	3.874	85	608	0.024	ppbV	97
4) chloromethane	4.024	50	333	0.026	ppbV #	80
5) Freon-114	4.132	85	528	0.017	ppbV	98
6) vinyl chloride	4.246	62	240	0.018	ppbV #	59
7) 1,3-butadiene	4.384	54	207	0.019	ppbV #	18
8) bromomethane	4.648	94	224	0.020	ppbV	83
9) chloroethane	4.822	64	141	0.024	ppbV	90
10) ethanol	4.948	31	6041	0.567	ppbV	99
11) vinyl bromide	5.190	106	283M4	0.025	ppbV	
12) acrolein	5.317	56	329M4	0.058	ppbV	
13) acetone	5.470	43	2444	0.167	ppbV #	99
14) trichlorofluoromethane	5.640	101	344	0.017	ppbV	90
15) isopropyl alcohol	5.737	45	947	0.047	ppbV #	88
16) acrylonitrile	5.967	53	248M4	0.023	ppbV	
17) 1,1-dichloroethene	6.312	61	306	0.018	ppbV #	79
18) tertiary butyl alcohol	6.390	59	556	0.025	ppbV #	78
19) methylene chloride	6.456	49	3891	0.246	ppbV	92
20) 3-chloropropene	6.582	41	411	0.023	ppbV #	74
21) carbon disulfide	6.756	76	996	0.023	ppbV #	1
22) Freon 113	6.762	101	487	0.018	ppbV #	92
23) trans-1,2-dichloroethene	7.492	61	289	0.016	ppbV	96
24) 1,1-dichloroethane	7.708	63	406	0.018	ppbV	93

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737673_Ev2.D
Acq On : 7 Jan 2024 8:20 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.817	73	522	0.016	ppbV #	48
26) vinyl acetate	7.908	43	664	0.022	ppbV #	81
27) 2-butanone	8.183	43	715	0.024	ppbV #	92
28) cis-1,2-dichloroethene	8.650	61	300	0.018	ppbV	95
29) Ethyl Acetate	8.950	61	69	0.016	ppbV #	1
30) chloroform	8.992	83	450	0.018	ppbV #	88
31) Tetrahydrofuran	9.467	42	303	0.018	ppbV #	87
32) 1,2-dichloroethane	9.825	62	305	0.023	ppbV #	73
34) hexane	8.917	57	458	0.022	ppbV #	18
36) 1,1,1-trichloroethane	10.117	97	367	0.018	ppbV #	92
37) benzene	10.643	78	1140	0.022	ppbV	98
38) carbon tetrachloride	10.823	117	361	0.018	ppbV #	92
39) cyclohexane	10.957	56	536M4	0.023	ppbV	
40) Dibromomethane	11.570	93	322	0.024	ppbV #	86
41) 1,2-dichloropropane	11.597	63	387	0.025	ppbV #	56
42) bromodichloromethane	11.830	83	406	0.017	ppbV #	74
43) 1,4-dioxane	11.910	88	202	0.021	ppbV	95
44) trichloroethene	11.890	130	360	0.017	ppbV	89
45) 2,2,4-trimethylpentane	11.943	57	1958	0.029	ppbV #	93
46) heptane	12.257	43	575	0.019	ppbV #	87
47) cis-1,3-dichloropropene	12.900	75	440	0.017	ppbV #	75
48) 4-methyl-2-pentanone	13.000	43	1373	0.037	ppbV #	77
49) trans-1,3-dichloropropene	13.525	75	314	0.016	ppbV #	60
50) 1,1,2-trichloroethane	13.725	97	361	0.020	ppbV	95
52) toluene	14.050	91	1160	0.021	ppbV	94
54) 2-hexanone	14.417	43	379	0.011	ppbV #	93
55) dibromochloromethane	14.500	129	411	0.017	ppbV #	86
56) 1,2-dibromoethane	14.758	107	452	0.016	ppbV	95
57) tetrachloroethene	15.233	166	414	0.020	ppbV	98
58) 1,1,1,2-tetrachloroethane	15.867	131	319	0.017	ppbV #	93
59) chlorobenzene	15.875	112	855	0.018	ppbV	88
60) ethylbenzene	16.233	91	1171	0.017	ppbV	93
61) m+p-xylene	16.392	91	1940	0.036	ppbV	96
62) bromoform	16.467	173	277	0.016	ppbV #	84
63) styrene	16.733	104	693	0.015	ppbV	96
64) 1,1,2,2-tetrachloroethane	16.825	83	671	0.017	ppbV	100
65) o-xylene	16.825	91	980	0.018	ppbV	98
66) 1,2,3-Trichloropropane	16.942	75	573	0.019	ppbV #	95
68) isopropylbenzene	17.342	105	1211	0.017	ppbV	95
69) Bromobenzene	17.408	77	693	0.018	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737673_Ev2.D
Acq On : 7 Jan 2024 8:20 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

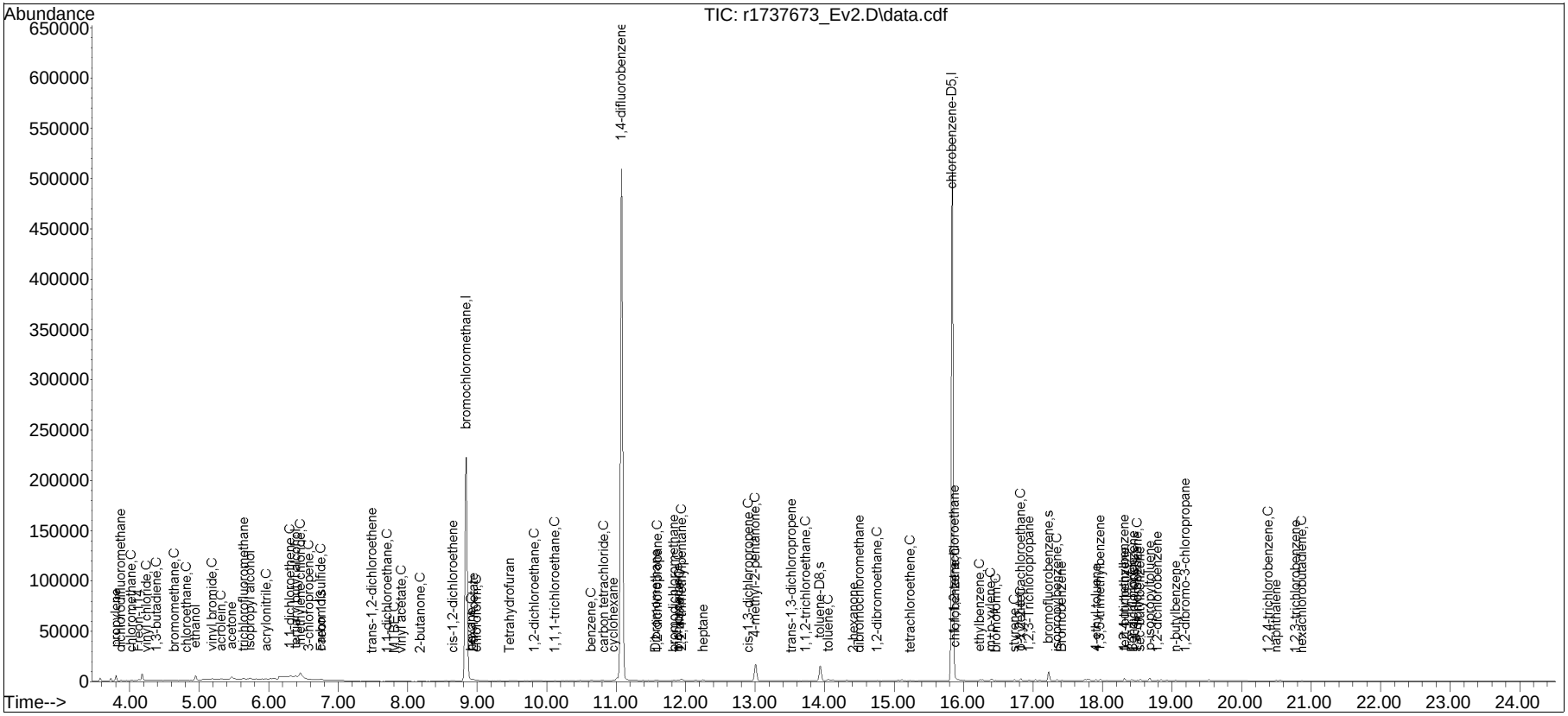
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.908	105	1096	0.015	ppbV #	94
71) 1,3,5-trimethylbenzene	17.967	105	1074	0.017	ppbV #	94
72) tert-butylbenzene	18.317	119	1049	0.017	ppbV #	89
73) 1,2,4-trimethylbenzene	18.308	105	1017	0.016	ppbV	91
74) Benzyl Chloride	18.433	91	386	0.011	ppbV	95
75) 1,3-dichlorobenzene	18.442	146	555	0.014	ppbV #	83
76) 1,4-dichlorobenzene	18.500	146	516	0.014	ppbV	91
77) sec-butylbenzene	18.542	105	1467	0.017	ppbV	99
78) p-isopropyltoluene	18.683	119	1325	0.018	ppbV	95
79) 1,2-dichlorobenzene	18.792	146	618	0.017	ppbV	96
80) n-butylbenzene	19.050	91	964	0.015	ppbV #	88
81) 1,2-dibromo-3-chloropr...	19.192	75	163	0.012	ppbV #	73
82) 1,2,4-trichlorobenzene	20.383	180	319	0.014	ppbV #	76
83) naphthalene	20.500	128	1758	0.029	ppbV #	90
84) 1,2,3-trichlorobenzene	20.775	180	295	0.017	ppbV #	84
85) hexachlorobutadiene	20.867	225	376	0.016	ppbV #	80

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737673_Ev2.D
Acq On : 7 Jan 2024 8:20 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.02
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:19:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

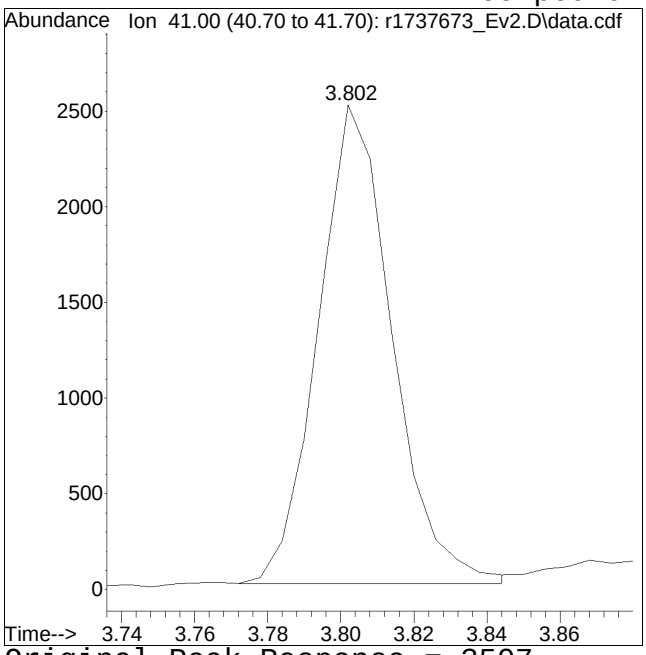


Manual Integration Report

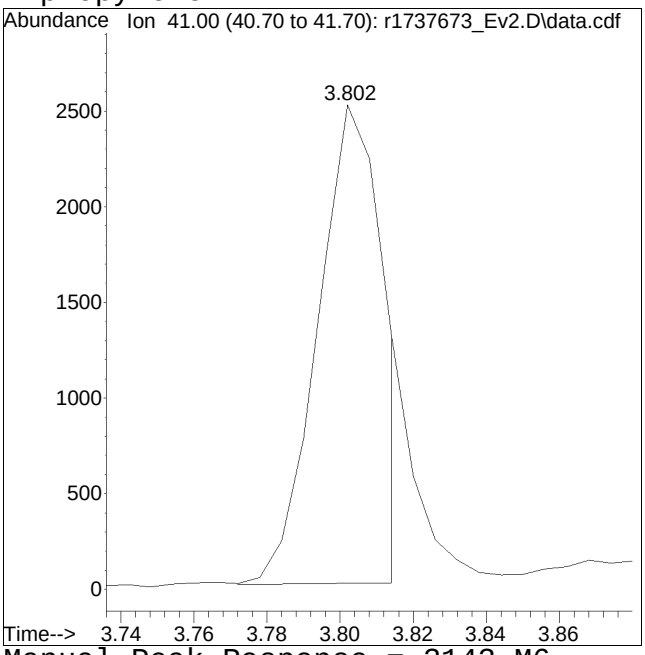
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737673_Ev2.D
Date Inj'd : 1/7/2020 0:8: 0
Sample : ITO15-SIMSTD0.02

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:19 pm

Compound #2: propylene



Original Peak Response = 3507



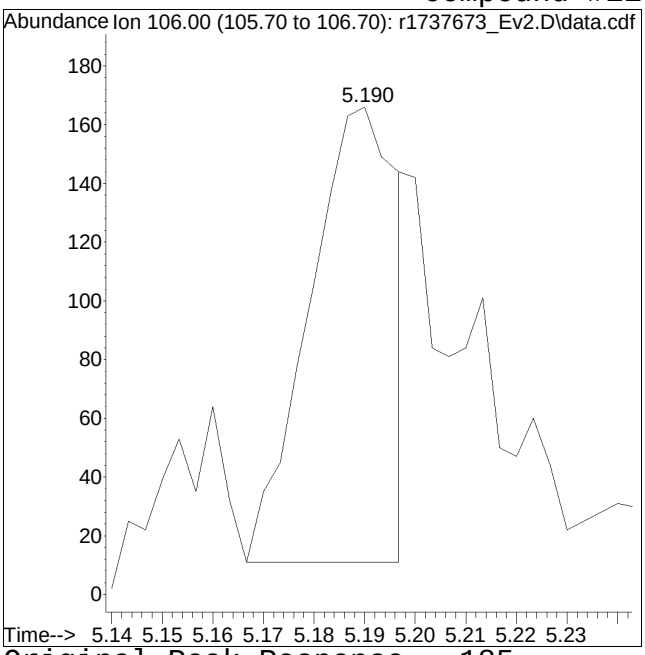
Manual Peak Response = 3143 M6

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

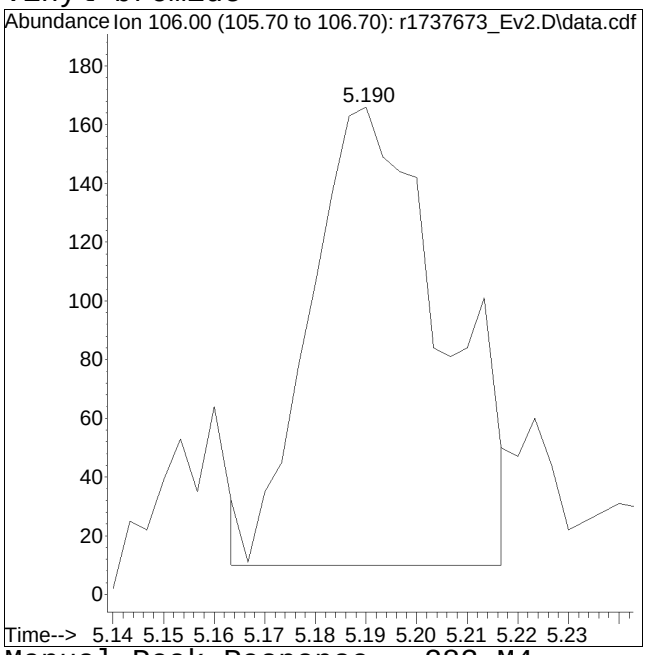
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #11: vinyl bromide



Original Peak Response = 185



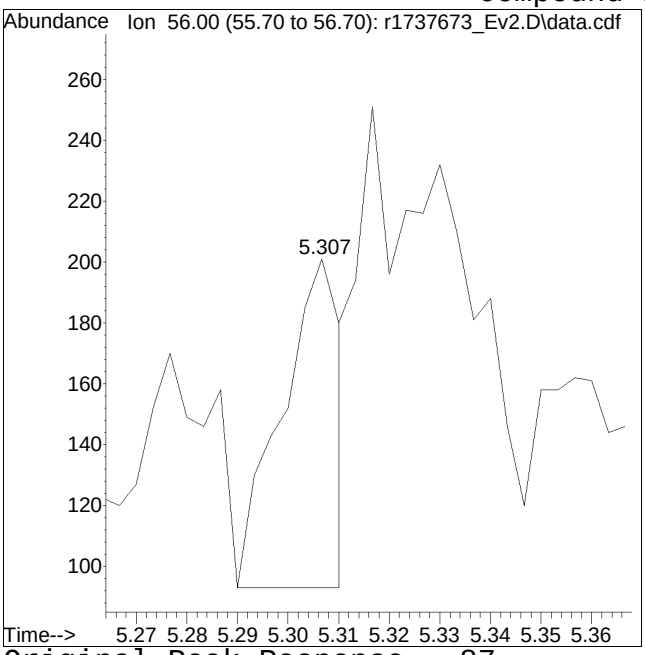
Manual Peak Response = 283 M4

M4 = Poor automated baseline construction.

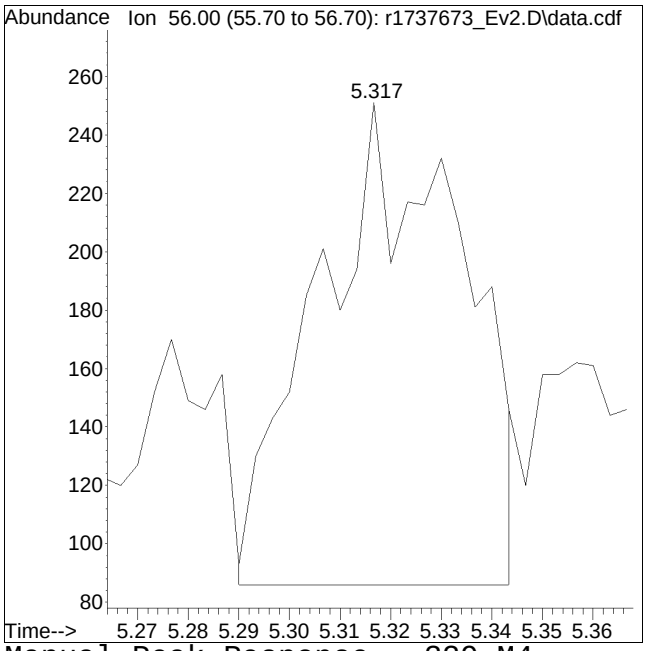
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #12: acrolein



Original Peak Response = 87



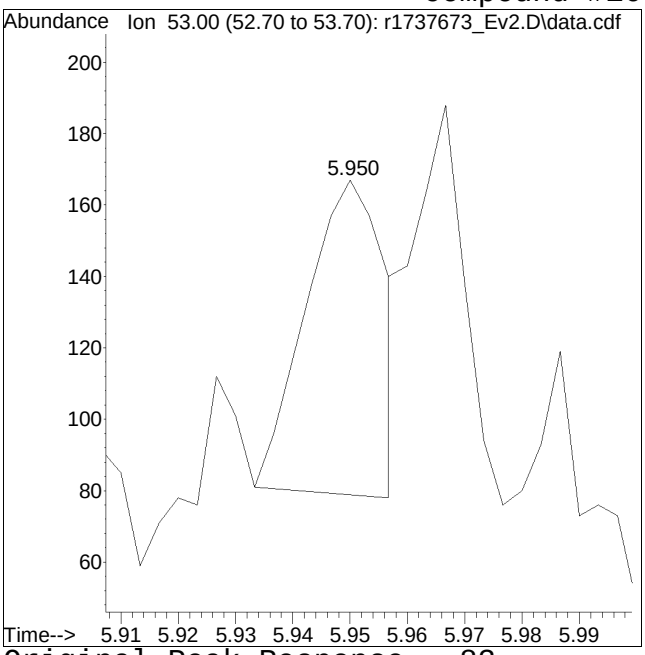
Manual Peak Response = 329 M4

M4 = Poor automated baseline construction.

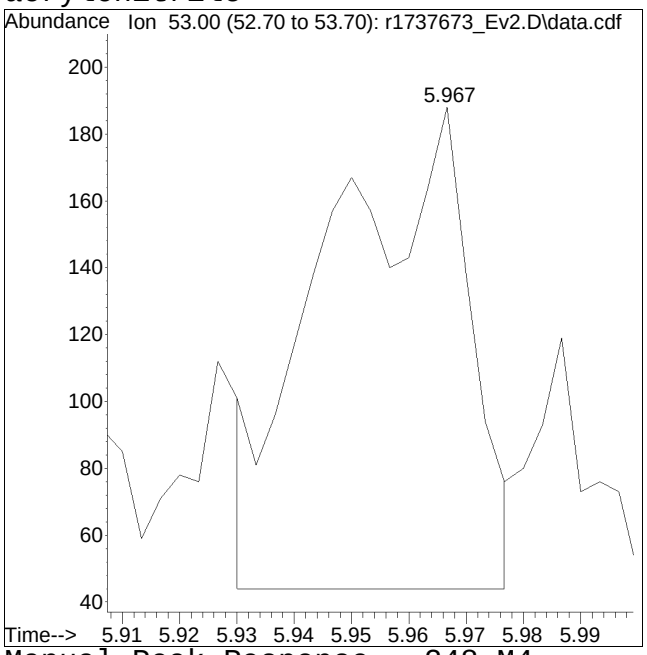
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #16: acrylonitrile



Original Peak Response = 83



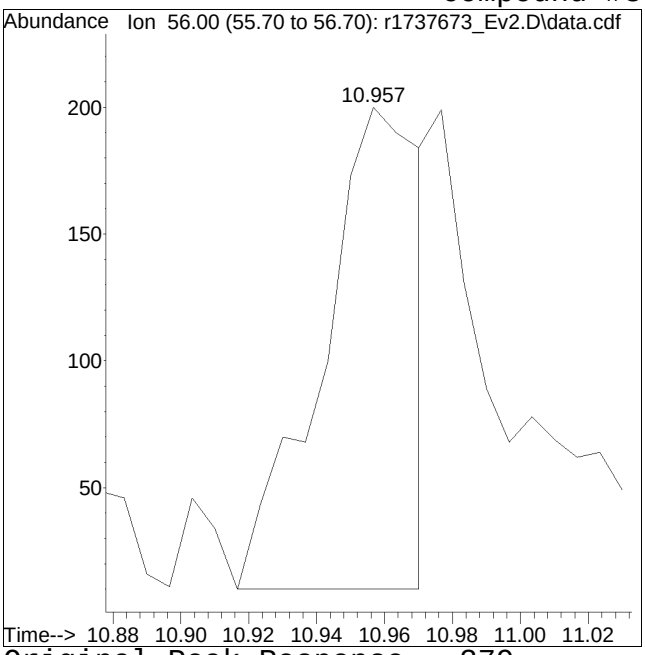
Manual Peak Response = 248 M4

M4 = Poor automated baseline construction.

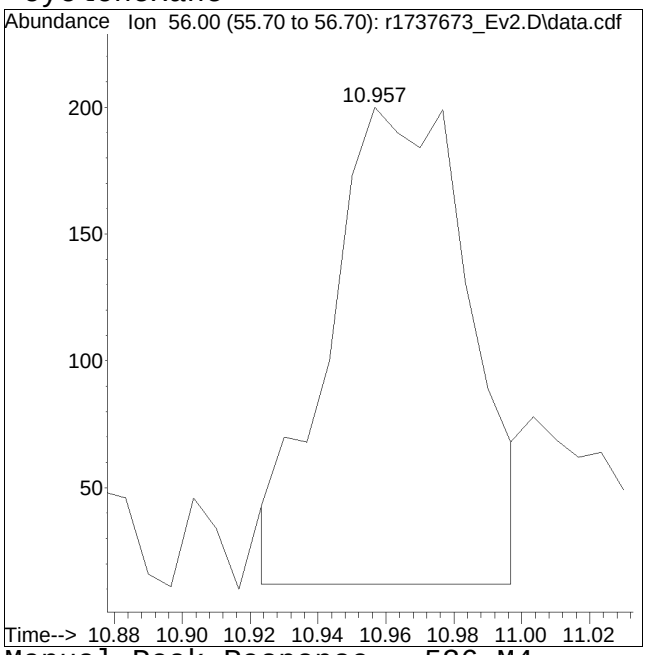
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737673_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 0 Instrument :
Sample : ITO15-SIMSTD0.02 Quant Date : 1/8/2024 3:19 pm

Compound #39: cyclohexane



Original Peak Response = 379



Manual Peak Response = 536 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737674_Ev2.D
Acq On : 7 Jan 2024 8:57 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	235711	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 92.54%			
33) 1,4-difluorobenzene	11.077	114	692480	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 93.92%			
51) chlorobenzene-D5	15.833	54	87280	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 94.88%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	0.000	65	0	0.000	ppbV	
Spiked Amount 10.000	Range 70 - 130		Recovery = 0.00%#			
53) toluene-D8	13.933	98	17442	0.246	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.46%#			
67) bromofluorobenzene	17.225	95	5151	0.118	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.18%#			
Target Compounds						Qvalue
2) propylene	3.802	41	3633M6	0.338	ppbV	
3) dichlorodifluoromethane	3.868	85	1577	0.064	ppbV	100
4) chloromethane	4.024	50	818	0.066	ppbV	93
5) Freon-114	4.126	85	1545	0.051	ppbV	99
6) vinyl chloride	4.240	62	701	0.055	ppbV #	80
7) 1,3-butadiene	4.378	54	519	0.049	ppbV #	64
8) bromomethane	4.648	94	584	0.053	ppbV	94
9) chloroethane	4.822	64	289	0.050	ppbV #	76
10) ethanol	4.942	31	7588	0.735	ppbV	100
11) vinyl bromide	5.193	106	596M4	0.054	ppbV	
12) acrolein	5.313	56	518M4	0.095	ppbV	
13) acetone	5.460	43	5883	0.414	ppbV #	96
14) trichlorofluoromethane	5.633	101	1119	0.056	ppbV	88
15) isopropyl alcohol	5.730	45	2490	0.127	ppbV #	94
16) acrylonitrile	5.953	53	584M4	0.056	ppbV	
17) 1,1-dichloroethene	6.312	61	882	0.054	ppbV	88
18) tertiary butyl alcohol	6.384	59	1278	0.059	ppbV #	36
19) methylene chloride	6.450	49	11737	0.766	ppbV	96
20) 3-chloropropene	6.582	41	906	0.052	ppbV #	87
21) carbon disulfide	6.750	76	2293	0.054	ppbV #	1
22) Freon 113	6.756	101	1343	0.053	ppbV	97
23) trans-1,2-dichloroethene	7.483	61	861	0.050	ppbV	97
24) 1,1-dichloroethane	7.708	63	1029	0.047	ppbV	89

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737674_Ev2.D
Acq On : 7 Jan 2024 8:57 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.808	73	1481	0.046	ppbV #	66
26) vinyl acetate	7.908	43	1581	0.054	ppbV #	94
27) 2-butanone	8.175	43	1758	0.060	ppbV #	94
28) cis-1,2-dichloroethene	8.650	61	828	0.051	ppbV	97
29) Ethyl Acetate	8.950	61	222	0.053	ppbV #	4
30) chloroform	8.992	83	1212	0.051	ppbV #	90
31) Tetrahydrofuran	9.458	42	735	0.044	ppbV	92
32) 1,2-dichloroethane	9.825	62	659	0.052	ppbV #	85
34) hexane	8.908	57	1247	0.060	ppbV #	12
36) 1,1,1-trichloroethane	10.117	97	927	0.048	ppbV #	97
37) benzene	10.650	78	2886	0.058	ppbV	97
38) carbon tetrachloride	10.817	117	979	0.051	ppbV	92
39) cyclohexane	10.963	56	1178	0.053	ppbV	91
40) Dibromomethane	11.563	93	841	0.064	ppbV #	96
41) 1,2-dichloropropane	11.597	63	845	0.055	ppbV #	83
42) bromodichloromethane	11.817	83	1206	0.052	ppbV	98
43) 1,4-dioxane	11.903	88	546	0.057	ppbV	87
44) trichloroethene	11.877	130	1050	0.051	ppbV	91
45) 2,2,4-trimethylpentane	11.937	57	4950	0.075	ppbV #	99
46) heptane	12.250	43	1538	0.051	ppbV	96
47) cis-1,3-dichloropropene	12.892	75	1109	0.044	ppbV #	85
48) 4-methyl-2-pentanone	12.992	43	2356	0.065	ppbV #	88
49) trans-1,3-dichloropropene	13.517	75	822	0.042	ppbV #	78
50) 1,1,2-trichloroethane	13.717	97	784	0.045	ppbV	88
52) toluene	14.050	91	2903	0.055	ppbV	97
54) 2-hexanone	14.392	43	1038M3	0.031	ppbV	
55) dibromochloromethane	14.500	129	1013	0.044	ppbV #	95
56) 1,2-dibromoethane	14.758	107	1265	0.045	ppbV	96
57) tetrachloroethene	15.225	166	1027	0.051	ppbV	98
58) 1,1,1,2-tetrachloroethane	15.867	131	887	0.049	ppbV	97
59) chlorobenzene	15.875	112	2126	0.045	ppbV	96
60) ethylbenzene	16.233	91	3134	0.047	ppbV	100
61) m+p-xylene	16.400	91	4938	0.094	ppbV	98
62) bromoform	16.458	173	658	0.040	ppbV	91
63) styrene	16.725	104	1863	0.041	ppbV	96
64) 1,1,2,2-tetrachloroethane	16.817	83	1770	0.045	ppbV	96
65) o-xylene	16.817	91	2522	0.047	ppbV	98
66) 1,2,3-Trichloropropane	16.933	75	1428	0.049	ppbV	98
68) isopropylbenzene	17.342	105	3347	0.049	ppbV	95
69) Bromobenzene	17.408	77	1733	0.046	ppbV	95

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737674_Ev2.D
Acq On : 7 Jan 2024 8:57 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

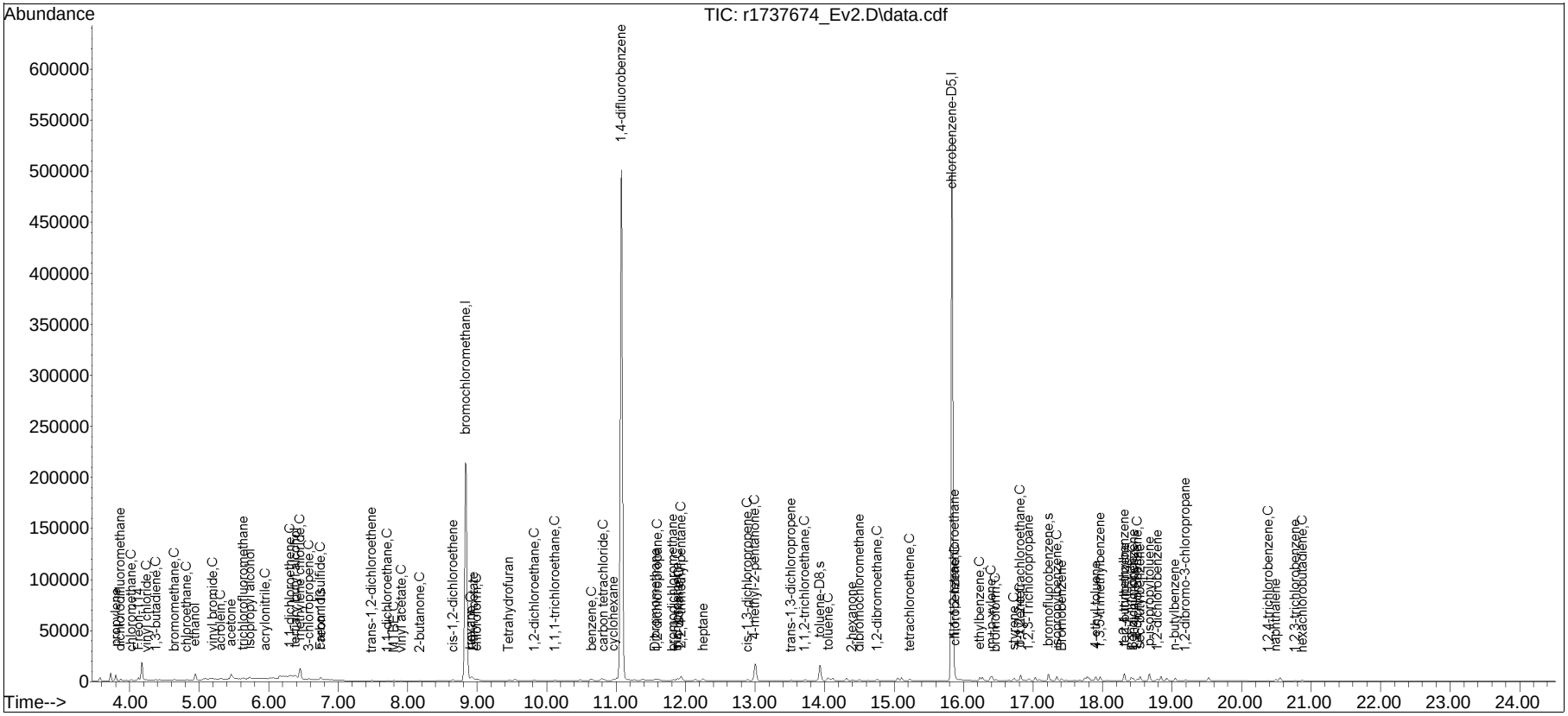
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.900	105	3289	0.045	ppbV #	97
71) 1,3,5-trimethylbenzene	17.967	105	2810	0.044	ppbV	98
72) tert-butylbenzene	18.317	119	2886	0.048	ppbV	97
73) 1,2,4-trimethylbenzene	18.308	105	2748	0.043	ppbV	93
74) Benzyl Chloride	18.433	91	1101	0.033	ppbV	94
75) 1,3-dichlorobenzene	18.442	146	1540	0.041	ppbV #	83
76) 1,4-dichlorobenzene	18.500	146	1425	0.039	ppbV	99
77) sec-butylbenzene	18.542	105	4192	0.049	ppbV	99
78) p-isopropyltoluene	18.675	119	3363	0.047	ppbV	98
79) 1,2-dichlorobenzene	18.792	146	1529	0.044	ppbV	97
80) n-butylbenzene	19.042	91	2715	0.044	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.192	75	518	0.039	ppbV	91
82) 1,2,4-trichlorobenzene	20.383	180	821	0.036	ppbV	92
83) naphthalene	20.492	128	3105	0.052	ppbV #	95
84) 1,2,3-trichlorobenzene	20.767	180	796	0.046	ppbV #	89
85) hexachlorobutadiene	20.875	225	1070	0.048	ppbV	96

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737674_Ev2.D
Acq On : 7 Jan 2024 8:57 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.05
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:07 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

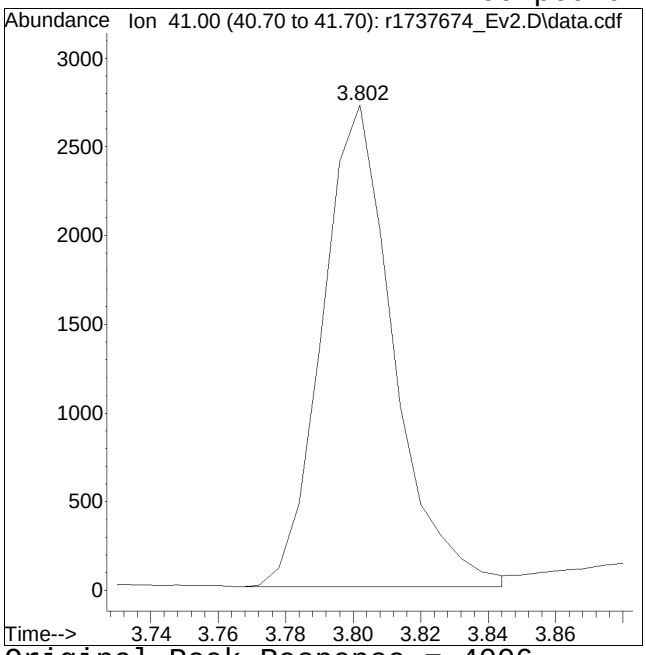


Manual Integration Report

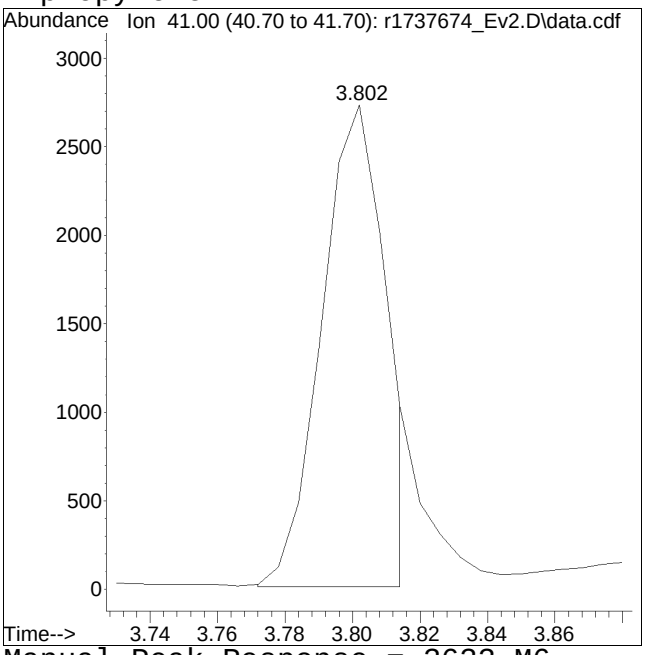
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737674_Ev2.D
Date Inj'd : 1/7/2020 0:8: 7
Sample : ITO15-SIMSTD0.05

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 4006



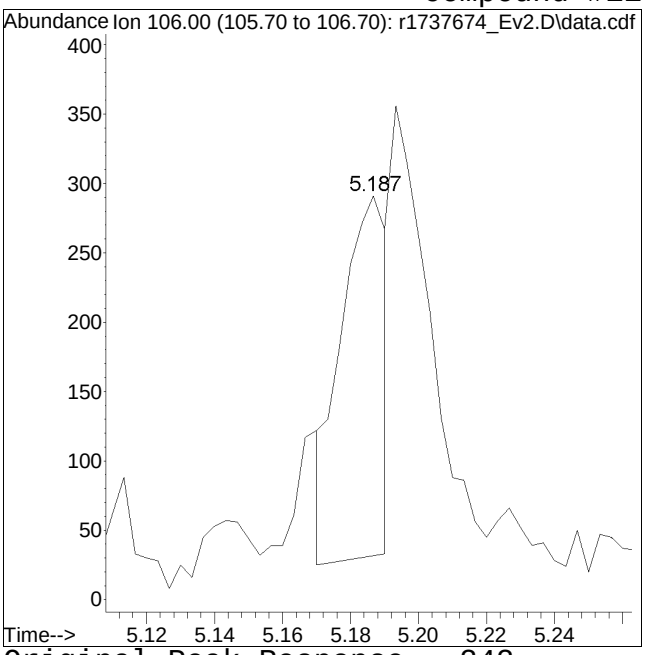
Manual Peak Response = 3633 M6

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

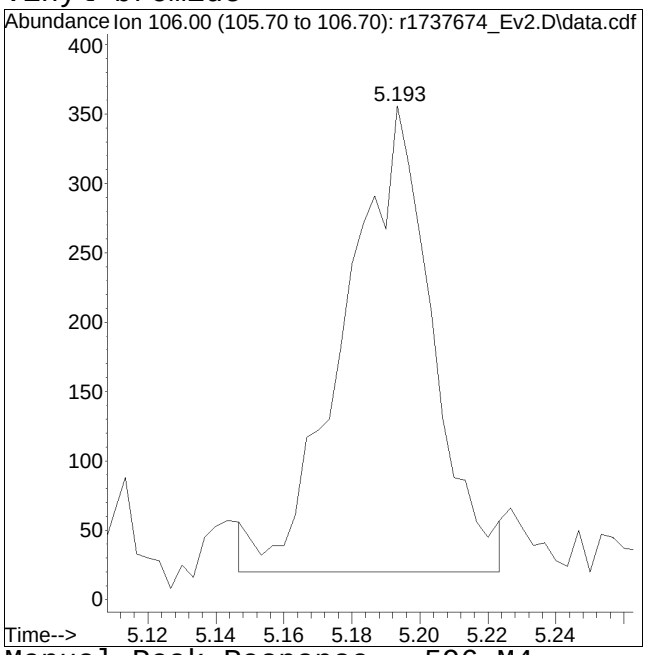
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #11: vinyl bromide



Original Peak Response = 242



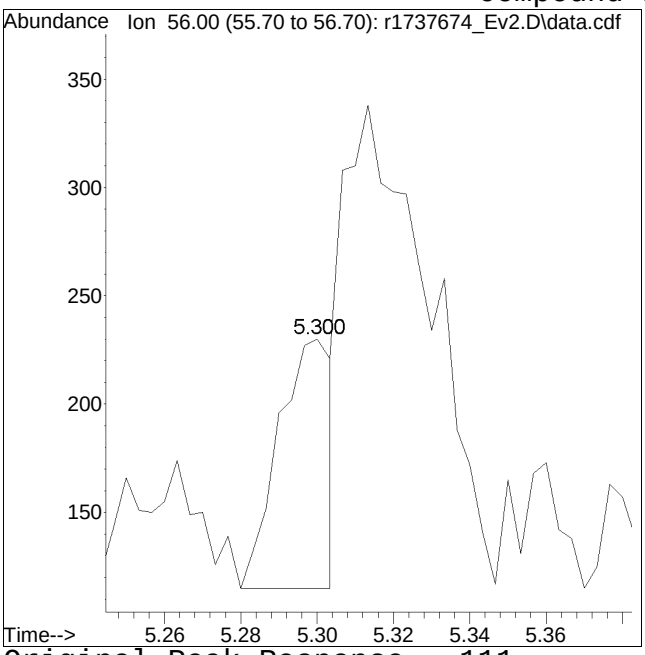
Manual Peak Response = 596 M4

M4 = Poor automated baseline construction.

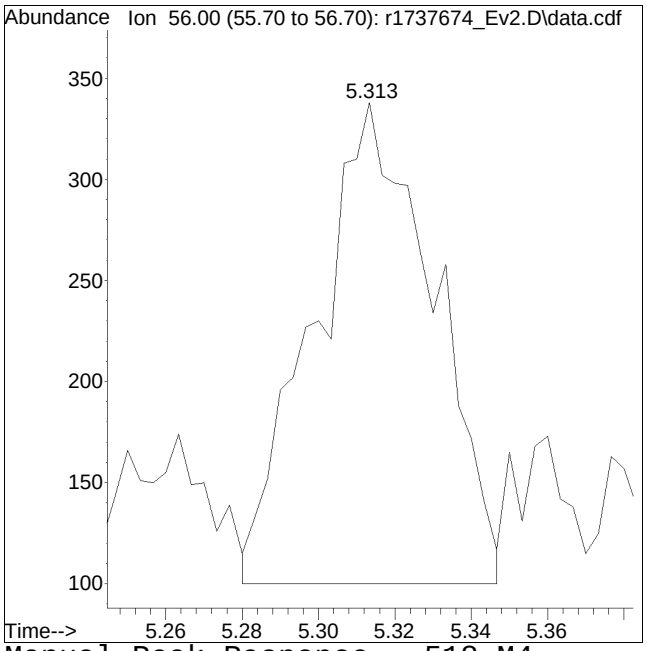
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #12: acrolein



Original Peak Response = 111



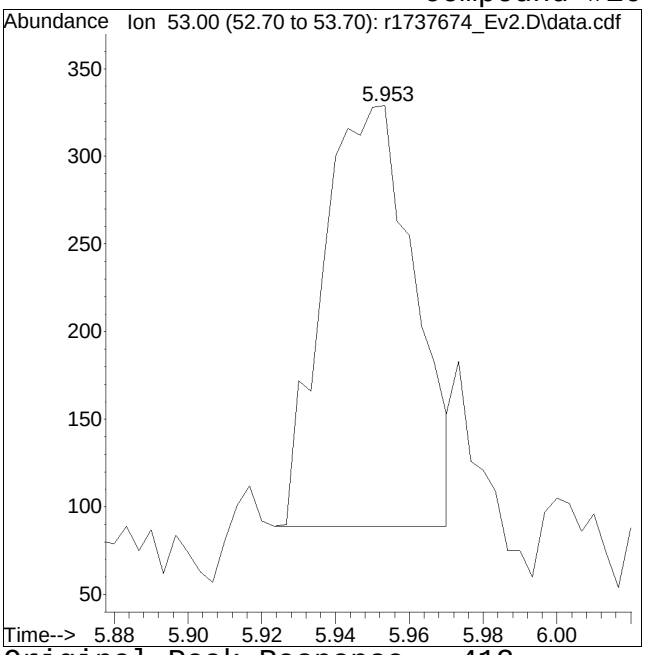
Manual Peak Response = 518 M4

M4 = Poor automated baseline construction.

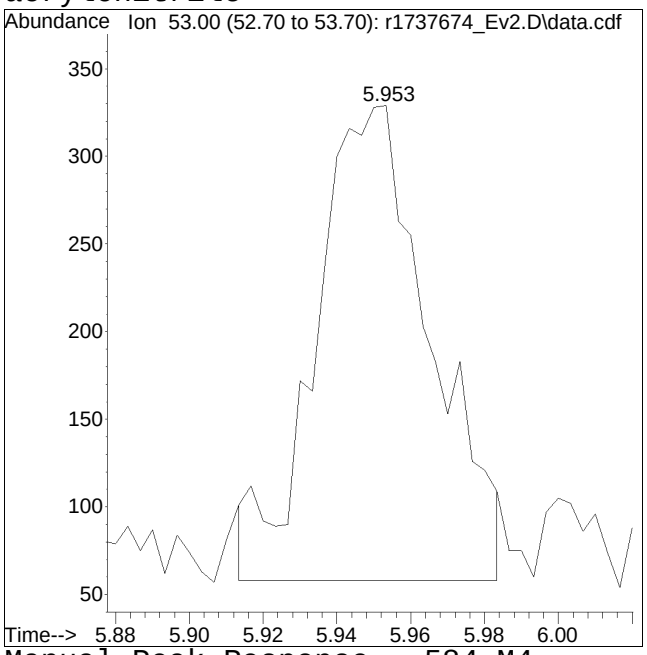
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #16: acrylonitrile



Original Peak Response = 412



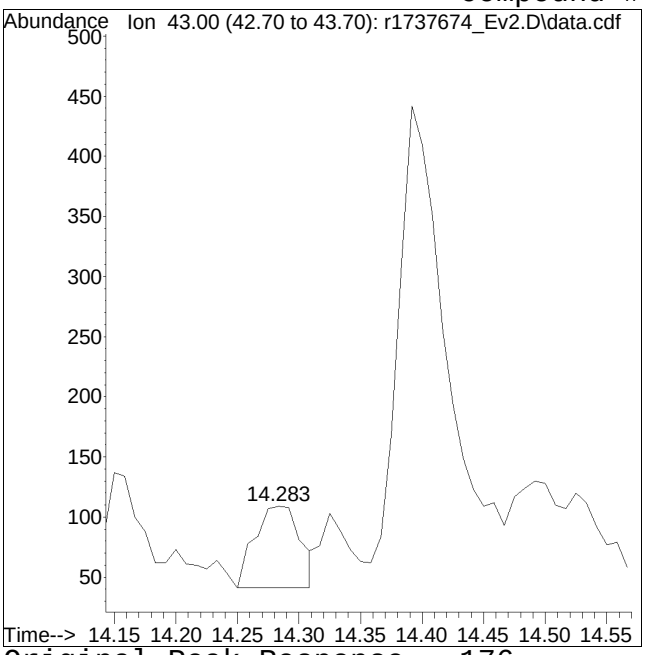
Manual Peak Response = 584 M4

M4 = Poor automated baseline construction.

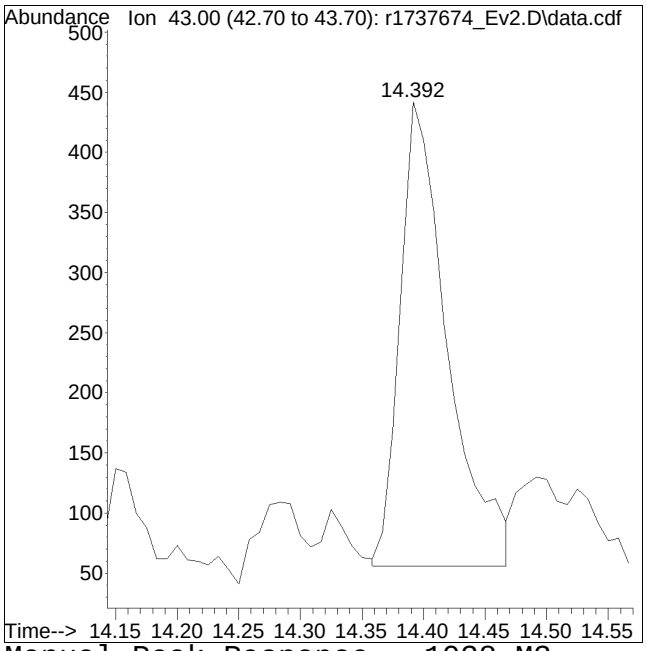
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737674_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:8: 7 Instrument :
Sample : ITO15-SIMSTD0.05 Quant Date : 1/8/2024 3:20 pm

Compound #54: 2-hexanone



Original Peak Response = 176



Manual Peak Response = 1038 M3

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737675_Ev2.D
Acq On : 7 Jan 2024 9:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	242434	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 95.18%			
33) 1,4-difluorobenzene	11.077	114	709972	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 96.29%			
51) chlorobenzene-D5	15.833	54	87852	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 95.50%			
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	13.933	98	17902	0.251	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 2.51%#			
67) bromofluorobenzene	17.225	95	5305	0.121	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 1.21%#			
Target Compounds						Qvalue
2) propylene	3.802	41	4171M6	0.378	ppbV	
3) dichlorodifluoromethane	3.868	85	3256	0.128	ppbV	97
4) chloromethane	4.024	50	1687	0.133	ppbV	96
5) Freon-114	4.126	85	3075	0.099	ppbV	100
6) vinyl chloride	4.240	62	1317	0.100	ppbV	97
7) 1,3-butadiene	4.378	54	1051	0.096	ppbV #	80
8) bromomethane	4.642	94	1180	0.103	ppbV	94
9) chloroethane	4.822	64	618	0.103	ppbV	90
10) ethanol	4.942	31	11273	1.061	ppbV	99
11) vinyl bromide	5.187	106	1159	0.101	ppbV	98
12) acrolein	5.317	56	701	0.125	ppbV #	75
13) acetone	5.457	43	11997	0.821	ppbV #	97
14) trichlorofluoromethane	5.633	101	2423	0.117	ppbV	100
15) isopropyl alcohol	5.727	45	5102	0.252	ppbV	100
16) acrylonitrile	5.947	53	1190	0.112	ppbV	96
17) 1,1-dichloroethene	6.312	61	1657	0.098	ppbV	98
18) tertiary butyl alcohol	6.378	59	2365	0.107	ppbV	95
19) methylene chloride	6.450	49	19780	1.255	ppbV	100
20) 3-chloropropene	6.582	41	1689	0.093	ppbV	91
21) carbon disulfide	6.750	76	4338	0.100	ppbV #	1
22) Freon 113	6.756	101	2675	0.102	ppbV	95
23) trans-1,2-dichloroethene	7.492	61	1756	0.100	ppbV	95
24) 1,1-dichloroethane	7.708	63	2212	0.098	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737675_Ev2.D
Acq On : 7 Jan 2024 9:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.808	73	3098	0.094	ppbV #	77
26) vinyl acetate	7.900	43	3309	0.111	ppbV	97
27) 2-butanone	8.175	43	3472	0.115	ppbV #	97
28) cis-1,2-dichloroethene	8.650	61	1711	0.102	ppbV	92
29) Ethyl Acetate	8.950	61	373	0.087	ppbV #	30
30) chloroform	8.992	83	2451	0.101	ppbV	97
31) Tetrahydrofuran	9.458	42	1687	0.099	ppbV	95
32) 1,2-dichloroethane	9.825	62	1292	0.098	ppbV #	91
34) hexane	8.908	57	2442	0.115	ppbV #	14
36) 1,1,1-trichloroethane	10.125	97	1938	0.097	ppbV	95
37) benzene	10.643	78	5672	0.111	ppbV	96
38) carbon tetrachloride	10.823	117	1978	0.100	ppbV #	97
39) cyclohexane	10.970	56	2465	0.108	ppbV	88
40) Dibromomethane	11.557	93	1658	0.122	ppbV #	96
41) 1,2-dichloropropane	11.597	63	1670	0.107	ppbV #	94
42) bromodichloromethane	11.823	83	2239	0.094	ppbV	93
43) 1,4-dioxane	11.897	88	1023	0.104	ppbV	96
44) trichloroethene	11.883	130	1935	0.092	ppbV #	84
45) 2,2,4-trimethylpentane	11.937	57	10058	0.148	ppbV	97
46) heptane	12.250	43	3118	0.101	ppbV #	97
47) cis-1,3-dichloropropene	12.892	75	2236	0.087	ppbV	94
48) 4-methyl-2-pentanone	12.975	43	3944	0.107	ppbV	98
49) trans-1,3-dichloropropene	13.525	75	1694	0.084	ppbV	91
50) 1,1,2-trichloroethane	13.717	97	1715	0.095	ppbV	96
52) toluene	14.050	91	5641	0.106	ppbV	98
54) 2-hexanone	14.383	43	2213	0.066	ppbV	98
55) dibromochloromethane	14.500	129	1936	0.083	ppbV	93
56) 1,2-dibromoethane	14.758	107	2544	0.090	ppbV	94
57) tetrachloroethene	15.225	166	2185	0.107	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.867	131	1797	0.098	ppbV	99
59) chlorobenzene	15.875	112	4532	0.096	ppbV	98
60) ethylbenzene	16.233	91	6481	0.096	ppbV	99
61) m+p-xylene	16.392	91	10288	0.195	ppbV	99
62) bromoform	16.458	173	1235	0.074	ppbV	90
63) styrene	16.725	104	4085	0.089	ppbV	97
64) 1,1,2,2-tetrachloroethane	16.817	83	3713	0.093	ppbV	98
65) o-xylene	16.825	91	5181	0.097	ppbV	95
66) 1,2,3-Trichloropropane	16.933	75	2960	0.101	ppbV	96
68) isopropylbenzene	17.342	105	6990	0.102	ppbV	98
69) Bromobenzene	17.408	77	3673	0.097	ppbV	98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737675_Ev2.D
Acq On : 7 Jan 2024 9:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

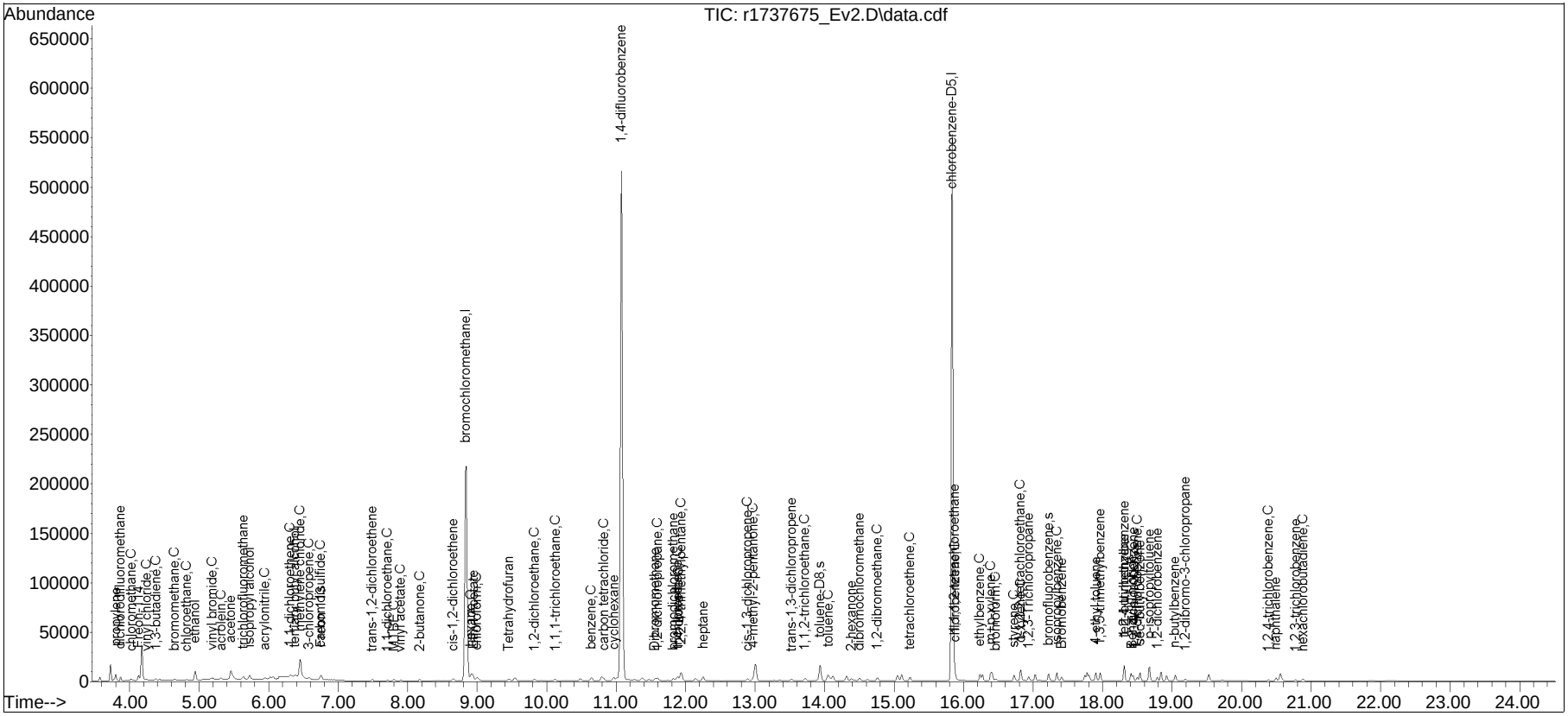
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.900	105	6913	0.094	ppbV	98
71) 1,3,5-trimethylbenzene	17.967	105	5819	0.091	ppbV	99
72) tert-butylbenzene	18.308	119	6139	0.101	ppbV	99
73) 1,2,4-trimethylbenzene	18.308	105	5966	0.093	ppbV	92
74) Benzyl Chloride	18.425	91	2284	0.069	ppbV	96
75) 1,3-dichlorobenzene	18.442	146	3294	0.087	ppbV	96
76) 1,4-dichlorobenzene	18.500	146	3235	0.088	ppbV	95
77) sec-butylbenzene	18.542	105	8686	0.101	ppbV	100
78) p-isopropyltoluene	18.675	119	7250	0.101	ppbV	98
79) 1,2-dichlorobenzene	18.792	146	3254	0.092	ppbV	95
80) n-butylbenzene	19.042	91	5870	0.095	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.192	75	1155	0.086	ppbV	94
82) 1,2,4-trichlorobenzene	20.383	180	1790	0.077	ppbV	95
83) naphthalene	20.492	128	5966	0.100	ppbV	96
84) 1,2,3-trichlorobenzene	20.775	180	1754	0.101	ppbV	96
85) hexachlorobutadiene	20.883	225	2227	0.098	ppbV	96

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737675_Ev2.D
Acq On : 7 Jan 2024 9:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.1
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:17 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

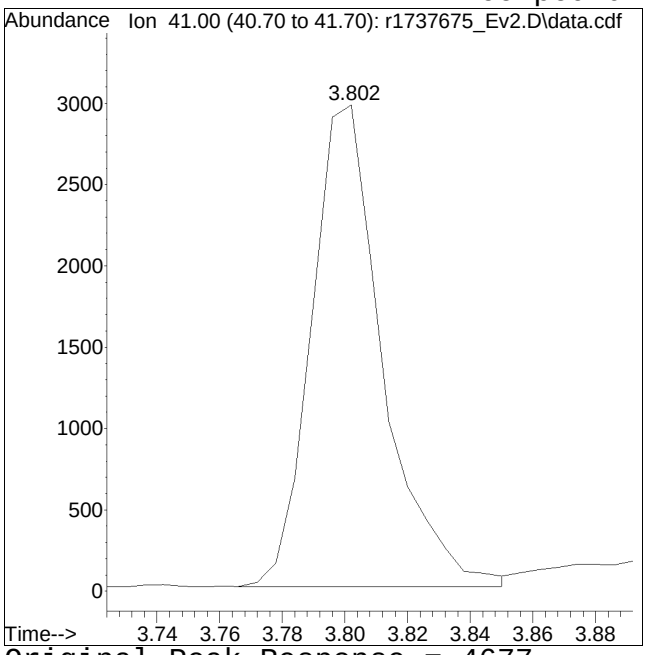


Manual Integration Report

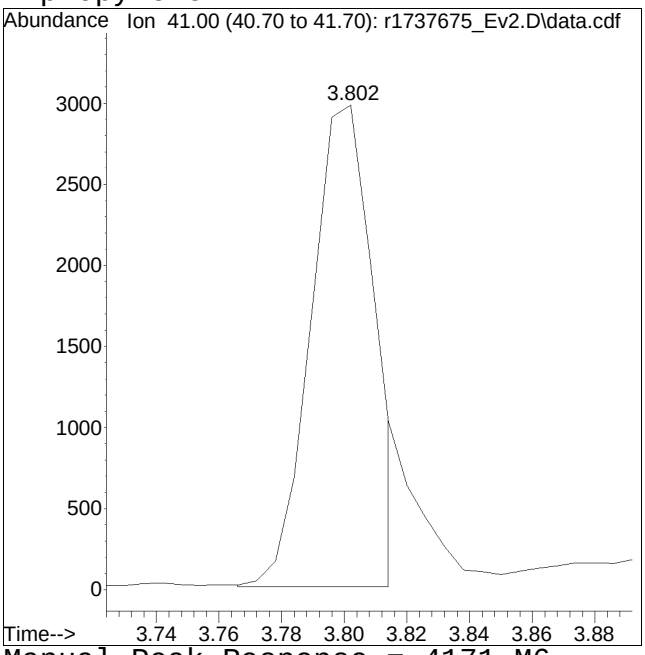
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737675_Ev2.D
Date Inj'd : 1/7/2020 0:9: 6
Sample : ITO15-SIMSTD0.1

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 4677



Manual Peak Response = 4171 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737676_Ev2.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	243954	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 95.78%			
33) 1,4-difluorobenzene	11.070	114	713366	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 96.75%			
51) chlorobenzene-D5	15.833	54	87927	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 95.59%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	208191	10.037	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.37%			
53) toluene-D8	13.933	98	712700	9.993	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.93%			
67) bromofluorobenzene	17.217	95	425625	9.673	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.73%			
Target Compounds						Qvalue
2) propylene	3.796	41	5154M6	0.464	ppbV	
3) dichlorodifluoromethane	3.868	85	5554	0.216	ppbV	97
4) chloromethane	4.024	50	2769	0.217	ppbV	95
5) Freon-114	4.126	85	6848	0.218	ppbV	98
6) vinyl chloride	4.240	62	2963	0.223	ppbV	95
7) 1,3-butadiene	4.372	54	2430	0.220	ppbV	87
8) bromomethane	4.642	94	2537	0.220	ppbV	99
9) chloroethane	4.822	64	1359	0.226	ppbV	98
10) ethanol	4.936	31	16156	1.512	ppbV	100
11) vinyl bromide	5.187	106	2347	0.204	ppbV	97
12) acrolein	5.307	56	1367M4	0.242	ppbV	
13) acetone	5.450	43	19206	1.307	ppbV #	99
14) trichlorofluoromethane	5.633	101	4557	0.219	ppbV	99
15) isopropyl alcohol	5.717	45	10994	0.540	ppbV	98
16) acrylonitrile	5.950	53	2659	0.249	ppbV	93
17) 1,1-dichloroethene	6.312	61	3725	0.218	ppbV	97
18) tertiary butyl alcohol	6.372	59	5195	0.233	ppbV #	67
19) methylene chloride	6.450	49	4452	0.281	ppbV	95
20) 3-chloropropene	6.582	41	3835	0.211	ppbV	97
21) carbon disulfide	6.744	76	9463	0.216	ppbV #	18
22) Freon 113	6.750	101	5823	0.220	ppbV	97
23) trans-1,2-dichloroethene	7.483	61	3851	0.217	ppbV	96
24) 1,1-dichloroethane	7.708	63	4940	0.219	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737676_Ev2.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.792	73	7274	0.219	ppbV #	89
26) vinyl acetate	7.900	43	6630	0.220	ppbV	100
27) 2-butanone	8.167	43	6421	0.211	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	3742	0.222	ppbV	98
29) Ethyl Acetate	8.942	61	905	0.210	ppbV #	37
30) chloroform	8.992	83	5489	0.224	ppbV	99
31) Tetrahydrofuran	9.442	42	3576	0.208	ppbV	99
32) 1,2-dichloroethane	9.825	62	3297	0.249	ppbV	99
34) hexane	8.908	57	4757	0.223	ppbV #	40
36) 1,1,1-trichloroethane	10.117	97	4304	0.215	ppbV	99
37) benzene	10.643	78	11411	0.222	ppbV	98
38) carbon tetrachloride	10.817	117	4243	0.215	ppbV	98
39) cyclohexane	10.963	56	5275	0.230	ppbV	97
40) Dibromomethane	11.563	93	3221	0.236	ppbV #	99
41) 1,2-dichloropropane	11.597	63	3563	0.227	ppbV	95
42) bromodichloromethane	11.817	83	4849	0.202	ppbV	96
43) 1,4-dioxane	11.883	88	2140	0.218	ppbV	93
44) trichloroethene	11.877	130	4548	0.215	ppbV	98
45) 2,2,4-trimethylpentane	11.930	57	17213	0.252	ppbV	99
46) heptane	12.250	43	6564	0.212	ppbV	98
47) cis-1,3-dichloropropene	12.892	75	5127	0.199	ppbV	97
48) 4-methyl-2-pentanone	12.950	43	8138	0.219	ppbV	97
49) trans-1,3-dichloropropene	13.517	75	3966	0.195	ppbV	97
50) 1,1,2-trichloroethane	13.717	97	3869	0.213	ppbV	97
52) toluene	14.042	91	11492	0.217	ppbV	100
54) 2-hexanone	14.367	43	5667	0.170	ppbV	99
55) dibromochloromethane	14.500	129	4554	0.194	ppbV	98
56) 1,2-dibromoethane	14.758	107	5923	0.209	ppbV	99
57) tetrachloroethene	15.225	166	4529	0.222	ppbV	98
58) 1,1,1,2-tetrachloroethane	15.858	131	3865	0.210	ppbV	97
59) chlorobenzene	15.875	112	10092	0.214	ppbV	98
60) ethylbenzene	16.233	91	14407	0.213	ppbV	99
61) m+p-xylene	16.400	91	22718	0.430	ppbV	100
62) bromoform	16.458	173	2841	0.170	ppbV	98
63) styrene	16.725	104	9332	0.202	ppbV	97
64) 1,1,2,2-tetrachloroethane	16.817	83	8481	0.213	ppbV	100
65) o-xylene	16.817	91	11398	0.213	ppbV	97
66) 1,2,3-Trichloropropane	16.933	75	6865	0.233	ppbV	100
68) isopropylbenzene	17.333	105	15712	0.229	ppbV	99
69) Bromobenzene	17.408	77	8429	0.223	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737676_Ev2.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

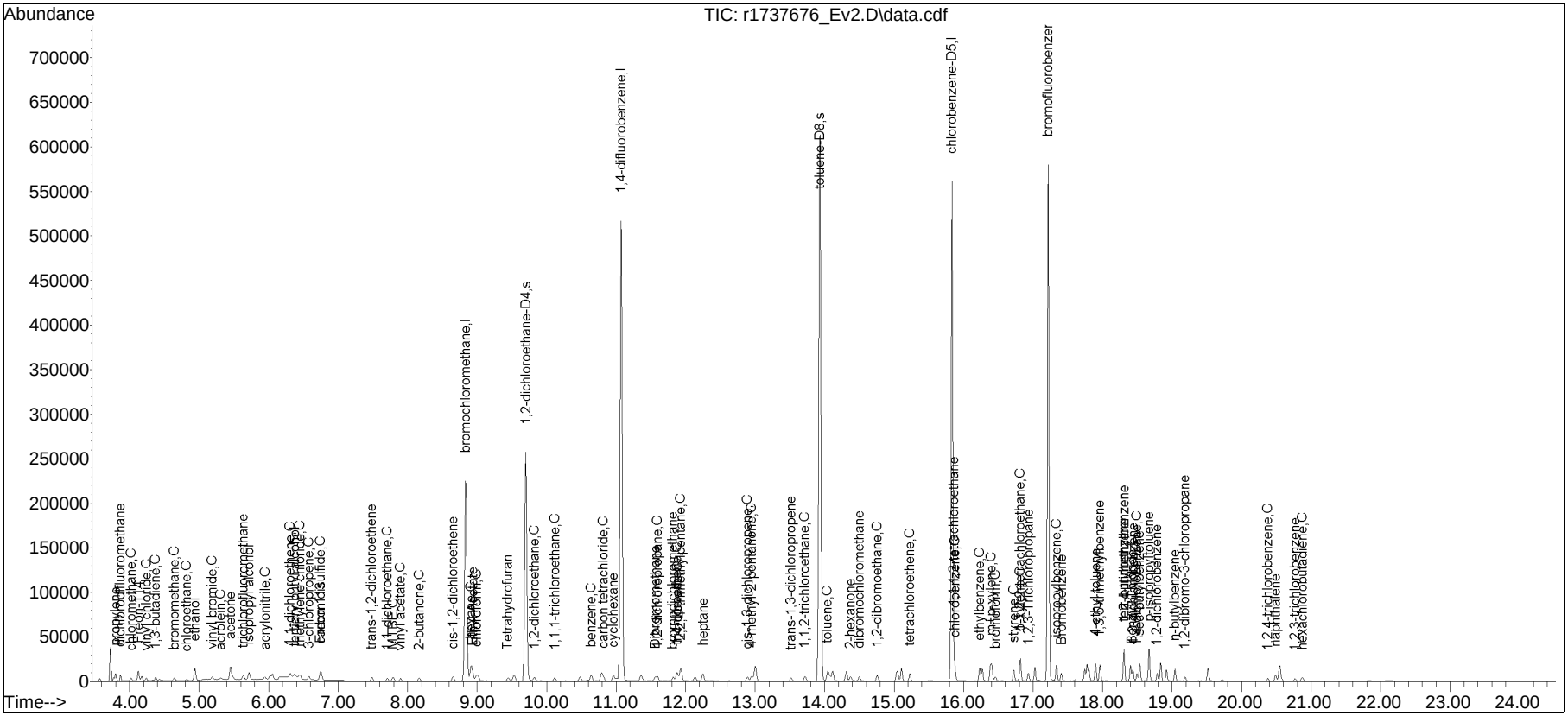
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.900	105	15847	0.216	ppbV	99
71) 1,3,5-trimethylbenzene	17.958	105	13658	0.214	ppbV	99
72) tert-butylbenzene	18.308	119	13991	0.231	ppbV	99
73) 1,2,4-trimethylbenzene	18.308	105	13510	0.210	ppbV	91
74) Benzyl Chloride	18.425	91	5409	0.162	ppbV	98
75) 1,3-dichlorobenzene	18.442	146	7670	0.202	ppbV	98
76) 1,4-dichlorobenzene	18.492	146	7439	0.201	ppbV	99
77) sec-butylbenzene	18.533	105	20092	0.234	ppbV	96
78) p-isopropyltoluene	18.667	119	16572	0.230	ppbV	98
79) 1,2-dichlorobenzene	18.783	146	7431	0.210	ppbV	98
80) n-butylbenzene	19.042	91	13736	0.221	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.183	75	2597	0.193	ppbV	94
82) 1,2,4-trichlorobenzene	20.375	180	3748	0.162	ppbV	97
83) naphthalene	20.492	128	13005	0.218	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	3539	0.204	ppbV	97
85) hexachlorobutadiene	20.875	225	4432	0.196	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737676_Ev2.D
Acq On : 7 Jan 2024 10:14 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.2
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

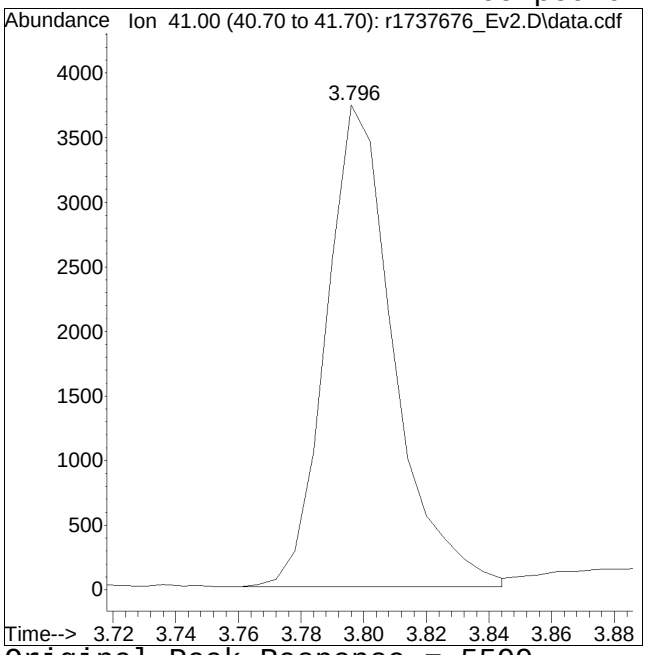
Quant Time: Jan 08 15:20:28 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration



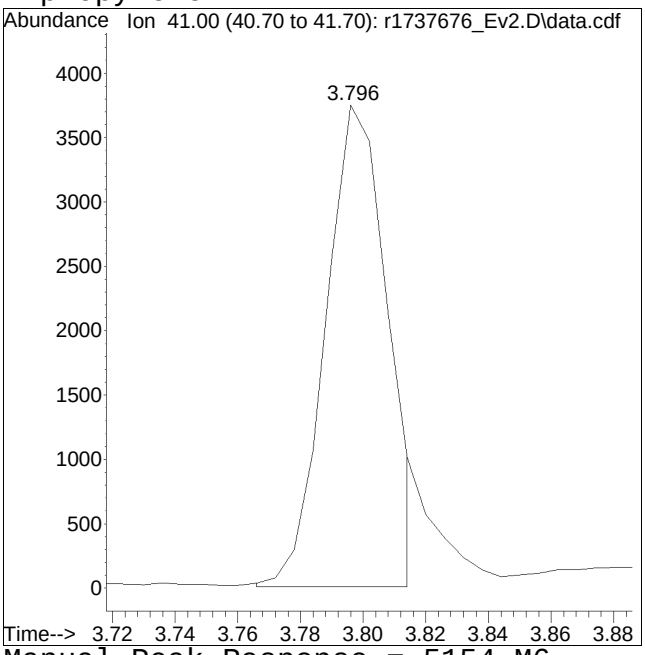
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737676_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 5599



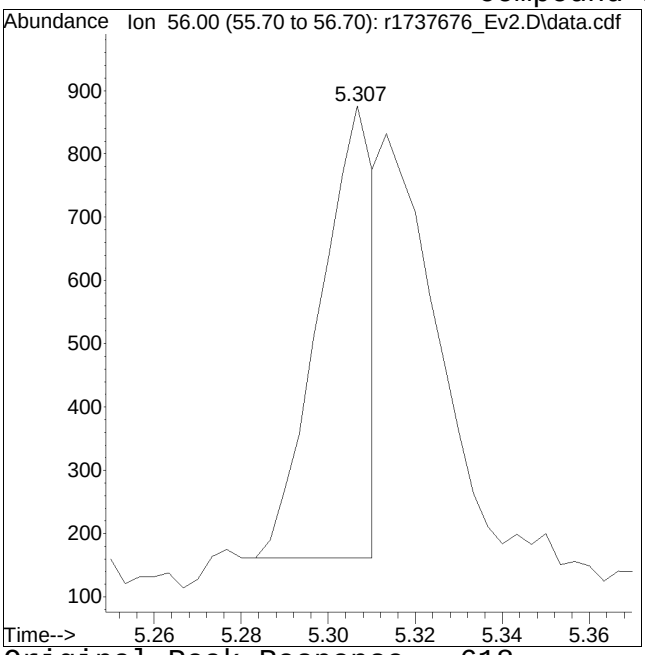
Manual Peak Response = 5154 M6

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

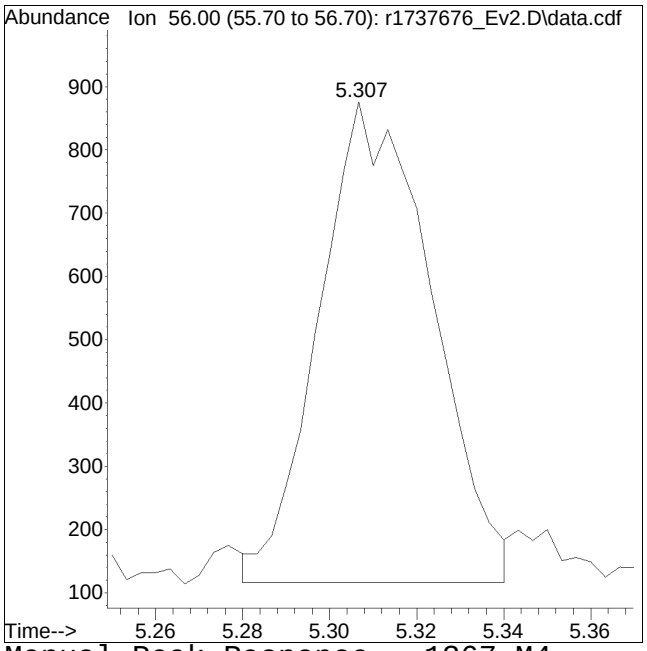
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737676_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/7/2020 0:0: 4 Instrument :
Sample : ITO15-SIMSTD0.2 Quant Date : 1/8/2024 3:20 pm

Compound #12: acrolein



Original Peak Response = 618



Manual Peak Response = 1367 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737677_Ev2.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	251097	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 98.58%			
33) 1,4-difluorobenzene	11.070	114	731752	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 99.24%			
51) chlorobenzene-D5	15.825	54	90462	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 98.34%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	208425	9.796	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.96%			
53) toluene-D8	13.925	98	722818	9.851	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.51%			
67) bromofluorobenzene	17.217	95	436733	9.647	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.47%			
Target Compounds						Qvalue
2) propylene	3.796	41	8085M6	0.707	ppbV	
3) dichlorodifluoromethane	3.868	85	13343	0.505	ppbV	98
4) chloromethane	4.018	50	6529	0.498	ppbV	98
5) Freon-114	4.126	85	16395	0.507	ppbV	98
6) vinyl chloride	4.240	62	7012	0.512	ppbV	98
7) 1,3-butadiene	4.372	54	5759	0.507	ppbV	92
8) bromomethane	4.642	94	6037	0.510	ppbV	99
9) chloroethane	4.822	64	3202	0.517	ppbV	100
10) ethanol	4.936	31	33860	3.078	ppbV	99
11) vinyl bromide	5.187	106	6139	0.519	ppbV	97
12) acrolein	5.307	56	3248	0.559	ppbV	97
13) acetone	5.443	43	44303	2.928	ppbV #	99
14) trichlorofluoromethane	5.633	101	10862	0.506	ppbV	98
15) isopropyl alcohol	5.710	45	26229	1.253	ppbV	100
16) acrylonitrile	5.943	53	5765	0.524	ppbV	98
17) 1,1-dichloroethene	6.312	61	8914	0.508	ppbV	99
18) tertiary butyl alcohol	6.360	59	12464	0.542	ppbV	99
19) methylene chloride	6.450	49	8706	0.533	ppbV	99
20) 3-chloropropene	6.576	41	9264	0.495	ppbV	98
21) carbon disulfide	6.744	76	22215	0.492	ppbV #	65
22) Freon 113	6.750	101	13706	0.503	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	9206	0.504	ppbV	99
24) 1,1-dichloroethane	7.708	63	11654	0.501	ppbV	98

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737677_Ev2.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.783	73	17477	0.511	ppbV #	90
26) vinyl acetate	7.892	43	15773	0.509	ppbV	100
27) 2-butanone	8.158	43	15821	0.505	ppbV	98
28) cis-1,2-dichloroethene	8.650	61	8804	0.507	ppbV	99
29) Ethyl Acetate	8.933	61	2235	0.504	ppbV #	45
30) chloroform	8.992	83	12853	0.510	ppbV	98
31) Tetrahydrofuran	9.433	42	8755	0.494	ppbV	97
32) 1,2-dichloroethane	9.817	62	7281	0.534	ppbV	97
34) hexane	8.908	57	11224	0.514	ppbV #	61
36) 1,1,1-trichloroethane	10.117	97	10198	0.497	ppbV	98
37) benzene	10.643	78	26678	0.506	ppbV	99
38) carbon tetrachloride	10.817	117	9906	0.488	ppbV	96
39) cyclohexane	10.963	56	12423	0.527	ppbV	98
40) Dibromomethane	11.557	93	7545	0.540	ppbV #	100
41) 1,2-dichloropropane	11.597	63	8161	0.507	ppbV	100
42) bromodichloromethane	11.817	83	11950	0.485	ppbV	99
43) 1,4-dioxane	11.870	88	5084	0.504	ppbV	98
44) trichloroethene	11.870	130	10779	0.497	ppbV	99
45) 2,2,4-trimethylpentane	11.923	57	40918	0.584	ppbV	99
46) heptane	12.243	43	15996	0.504	ppbV	98
47) cis-1,3-dichloropropene	12.883	75	12710	0.480	ppbV	99
48) 4-methyl-2-pentanone	12.933	43	18971	0.498	ppbV	99
49) trans-1,3-dichloropropene	13.517	75	9728	0.466	ppbV	99
50) 1,1,2-trichloroethane	13.717	97	9346	0.502	ppbV	97
52) toluene	14.042	91	27829	0.510	ppbV	100
54) 2-hexanone	14.350	43	15183	0.443	ppbV	97
55) dibromochloromethane	14.500	129	10995	0.456	ppbV	99
56) 1,2-dibromoethane	14.750	107	14434	0.495	ppbV	99
57) tetrachloroethene	15.225	166	10694	0.508	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.858	131	9681	0.512	ppbV	99
59) chlorobenzene	15.875	112	24485	0.505	ppbV	96
60) ethylbenzene	16.225	91	34407	0.495	ppbV	98
61) m+p-xylene	16.392	91	54559	1.003	ppbV	100
62) bromoform	16.458	173	7223	0.420	ppbV	98
63) styrene	16.717	104	22819	0.481	ppbV	98
64) 1,1,2,2-tetrachloroethane	16.808	83	20740	0.507	ppbV	99
65) o-xylene	16.808	91	27836	0.505	ppbV	99
66) 1,2,3-Trichloropropane	16.925	75	16351	0.540	ppbV	99
68) isopropylbenzene	17.333	105	38220	0.541	ppbV	100
69) Bromobenzene	17.400	77	21082	0.543	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737677_Ev2.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

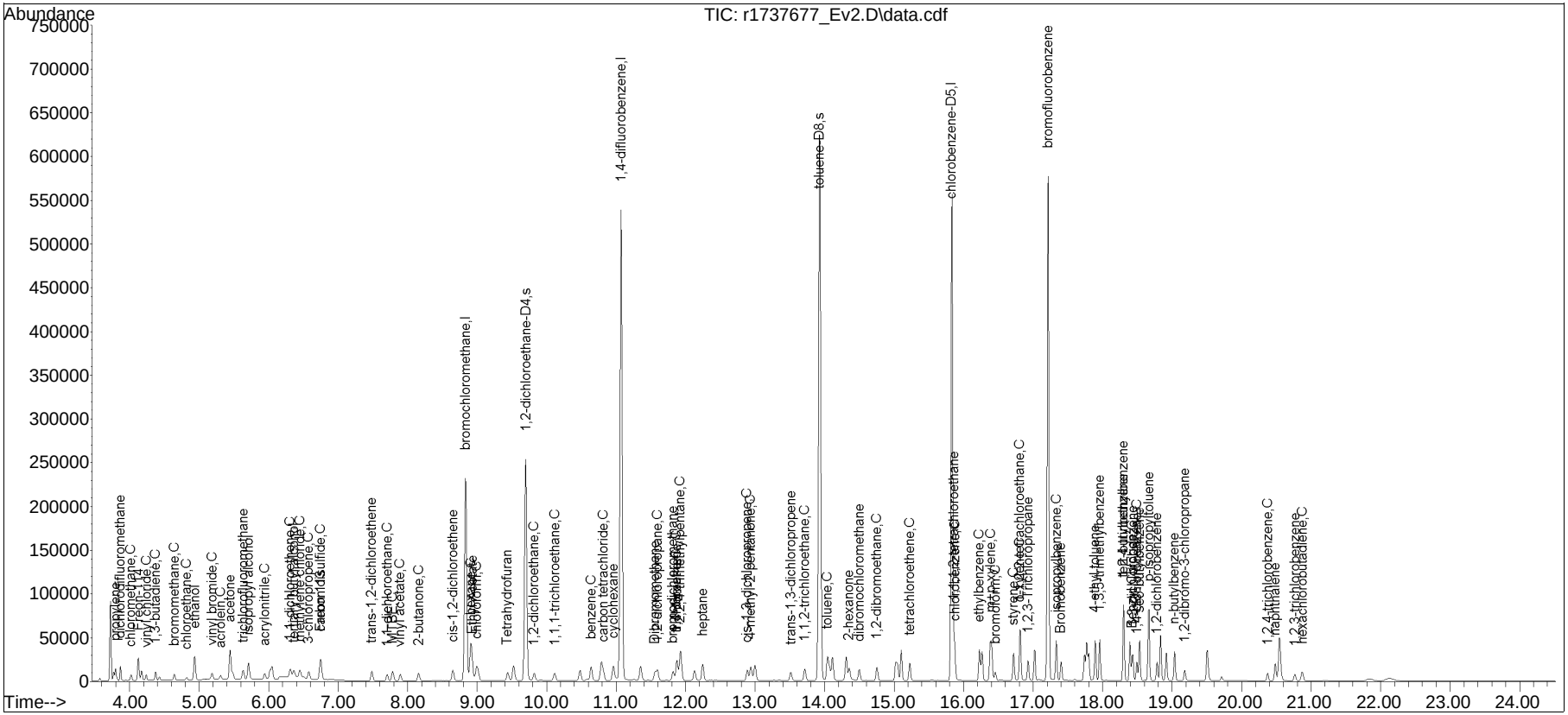
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	38379	0.509	ppbV	98
71) 1,3,5-trimethylbenzene	17.958	105	33747	0.514	ppbV	99
72) tert-butylbenzene	18.300	119	33824	0.543	ppbV	98
73) 1,2,4-trimethylbenzene	18.300	105	33338	0.504	ppbV	91
74) Benzyl Chloride	18.425	91	14396	0.420	ppbV	99
75) 1,3-dichlorobenzene	18.433	146	18594	0.475	ppbV	93
76) 1,4-dichlorobenzene	18.492	146	17716	0.466	ppbV	96
77) sec-butylbenzene	18.533	105	48481	0.549	ppbV	100
78) p-isopropyltoluene	18.667	119	40566	0.548	ppbV	100
79) 1,2-dichlorobenzene	18.783	146	18173	0.500	ppbV	97
80) n-butylbenzene	19.033	91	34332	0.538	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.183	75	6929	0.500	ppbV	97
82) 1,2,4-trichlorobenzene	20.375	180	10461	0.438	ppbV	99
83) naphthalene	20.483	128	33159	0.539	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	10066	0.565	ppbV	98
85) hexachlorobutadiene	20.875	225	11654	0.500	ppbV	98

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737677_Ev2.D
Acq On : 7 Jan 2024 10:54 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD0.5
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:38 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

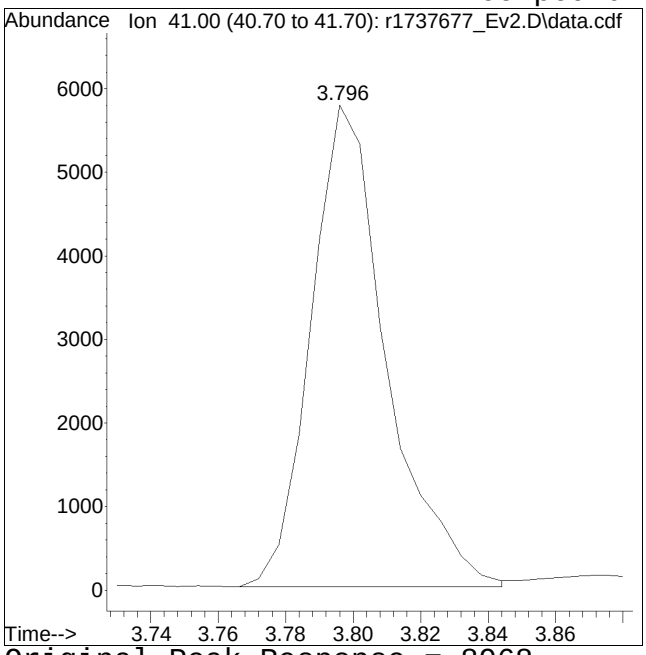


Manual Integration Report

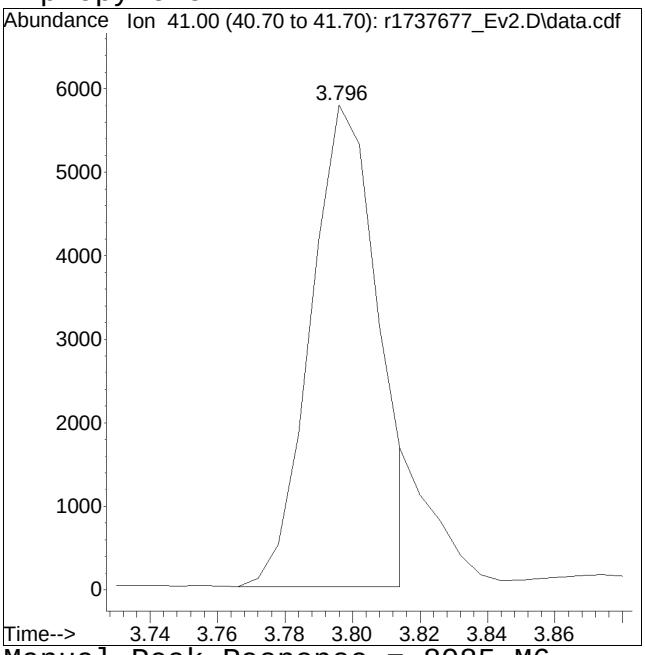
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737677_Ev2.D
Date Inj'd : 1/7/2020 0:0: 4
Sample : ITO15-SIMSTD0.5

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 8968



Manual Peak Response = 8085 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737678_Ev2.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	244534	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 96.01%			
33) 1,4-difluorobenzene	11.070	114	709519	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 96.23%			
51) chlorobenzene-D5	15.833	54	87349	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 94.96%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.700	65	209491	10.155	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.55%			
53) toluene-D8	13.933	98	722698	10.200	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 102.00%			
67) bromofluorobenzene	17.217	95	444094	10.160	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 101.60%			
Target Compounds						Qvalue
2) propylene	3.796	41	13765M6	1.235	ppbV	
3) dichlorodifluoromethane	3.868	85	25778	1.002	ppbV	98
4) chloromethane	4.018	50	12856	1.006	ppbV	99
5) Freon-114	4.120	85	31721	1.008	ppbV	98
6) vinyl chloride	4.234	62	13418	1.007	ppbV	99
7) 1,3-butadiene	4.372	54	11281	1.020	ppbV	95
8) bromomethane	4.642	94	11614	1.007	ppbV	100
9) chloroethane	4.822	64	6159	1.022	ppbV	97
10) ethanol	4.930	31	62903	5.872	ppbV	98
11) vinyl bromide	5.187	106	11751	1.020	ppbV	100
12) acrolein	5.307	56	5941	1.049	ppbV	96
13) acetone	5.443	43	85387	5.795	ppbV	99
14) trichlorofluoromethane	5.637	101	20880	0.999	ppbV	99
15) isopropyl alcohol	5.707	45	51451	2.523	ppbV	99
16) acrylonitrile	5.943	53	11476	1.070	ppbV	99
17) 1,1-dichloroethene	6.312	61	17324	1.013	ppbV	99
18) tertiary butyl alcohol	6.354	59	23898	1.068	ppbV	99
19) methylene chloride	6.450	49	16415	1.033	ppbV	99
20) 3-chloropropene	6.582	41	18202	0.998	ppbV	99
21) carbon disulfide	6.744	76	43218	0.983	ppbV #	83
22) Freon 113	6.750	101	26685	1.006	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	18010	1.012	ppbV	97
24) 1,1-dichloroethane	7.708	63	22663	1.000	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737678_Ev2.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
25) MTBE	7.783	73	33797	1.014	ppbV #	91
26) vinyl acetate	7.892	43	30969	1.026	ppbV	99
27) 2-butanone	8.150	43	30635	1.004	ppbV	99
28) cis-1,2-dichloroethene	8.650	61	16775	0.991	ppbV	98
29) Ethyl Acetate	8.933	61	4221	0.978	ppbV #	52
30) chloroform	8.992	83	24734	1.008	ppbV	100
31) Tetrahydrofuran	9.433	42	16940	0.982	ppbV	100
32) 1,2-dichloroethane	9.825	62	13652	1.029	ppbV	99
34) hexane	8.908	57	21690	1.024	ppbV #	68
36) 1,1,1-trichloroethane	10.117	97	19870	0.999	ppbV	99
37) benzene	10.643	78	51729	1.012	ppbV	99
38) carbon tetrachloride	10.817	117	18927	0.962	ppbV	98
39) cyclohexane	10.963	56	23432	1.026	ppbV	97
40) Dibromomethane	11.563	93	14418	1.063	ppbV #	99
41) 1,2-dichloropropane	11.597	63	15677	1.004	ppbV	98
42) bromodichloromethane	11.823	83	23214	0.972	ppbV	100
43) 1,4-dioxane	11.870	88	9634	0.985	ppbV	98
44) trichloroethene	11.877	130	20997	0.999	ppbV	97
45) 2,2,4-trimethylpentane	11.930	57	78378	1.153	ppbV	100
46) heptane	12.250	43	31631	1.027	ppbV	99
47) cis-1,3-dichloropropene	12.892	75	24774	0.965	ppbV	99
48) 4-methyl-2-pentanone	12.942	43	36317	0.984	ppbV	99
49) trans-1,3-dichloropropene	13.517	75	18970	0.937	ppbV	99
50) 1,1,2-trichloroethane	13.717	97	18026	0.999	ppbV	99
52) toluene	14.042	91	53316	1.012	ppbV	100
54) 2-hexanone	14.350	43	31164	0.941	ppbV	99
55) dibromochloromethane	14.500	129	21744	0.933	ppbV	99
56) 1,2-dibromoethane	14.758	107	27871	0.989	ppbV	99
57) tetrachloroethene	15.225	166	20591	1.014	ppbV	99
58) 1,1,1,2-tetrachloroethane	15.858	131	19049	1.043	ppbV	98
59) chlorobenzene	15.875	112	47164	1.007	ppbV	97
60) ethylbenzene	16.233	91	66586	0.992	ppbV	98
61) m+p-xylene	16.392	91	106034	2.019	ppbV	99
62) bromoform	16.458	173	14563	0.876	ppbV	99
63) styrene	16.717	104	44783	0.978	ppbV	99
64) 1,1,2,2-tetrachloroethane	16.808	83	39823	1.008	ppbV	99
65) o-xylene	16.817	91	53551	1.005	ppbV	97
66) 1,2,3-Trichloropropane	16.925	75	31725	1.084	ppbV	100
68) isopropylbenzene	17.333	105	73318	1.076	ppbV	100
69) Bromobenzene	17.408	77	40298	1.074	ppbV	100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737678_Ev2.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

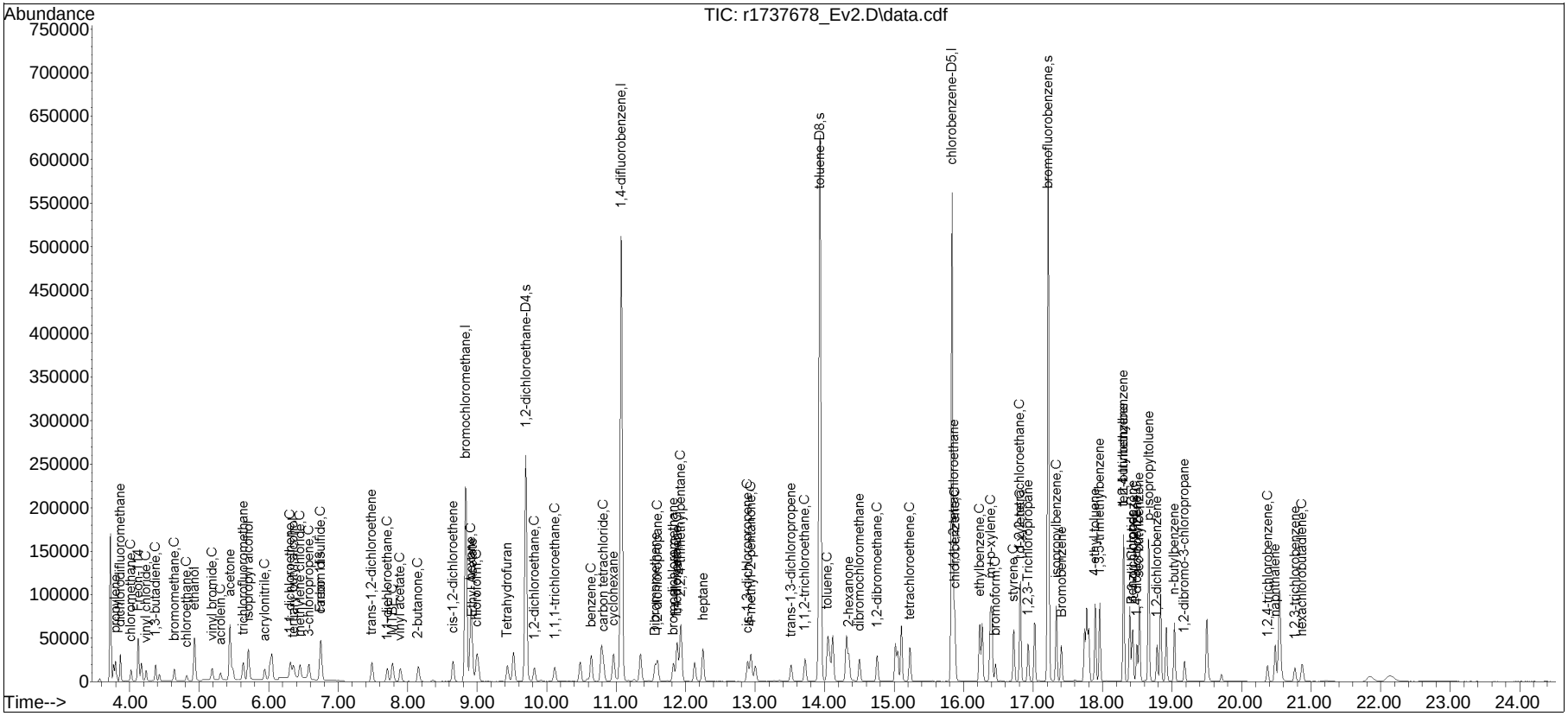
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	74721	1.025	ppbV	97
71) 1,3,5-trimethylbenzene	17.958	105	64349	1.014	ppbV	98
72) tert-butylbenzene	18.300	119	65072	1.082	ppbV	99
73) 1,2,4-trimethylbenzene	18.300	105	64201	1.005	ppbV	92
74) Benzyl Chloride	18.425	91	29853	0.901	ppbV	100
75) 1,3-dichlorobenzene	18.433	146	37366	0.990	ppbV	94
76) 1,4-dichlorobenzene	18.492	146	35256	0.960	ppbV	97
77) sec-butylbenzene	18.525	105	94080	1.104	ppbV	94
78) p-isopropyltoluene	18.667	119	78560	1.098	ppbV	100
79) 1,2-dichlorobenzene	18.783	146	35554	1.014	ppbV	97
80) n-butylbenzene	19.033	91	67724	1.098	ppbV	97
81) 1,2-dibromo-3-chloropr...	19.175	75	14401	1.076	ppbV	98
82) 1,2,4-trichlorobenzene	20.375	180	21653	0.940	ppbV	100
83) naphthalene	20.483	128	69205	1.166	ppbV	100
84) 1,2,3-trichlorobenzene	20.767	180	20457	1.189	ppbV	99
85) hexachlorobutadiene	20.867	225	22287	0.991	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737678_Ev2.D
Acq On : 7 Jan 2024 11:36 PM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD1.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:20:56 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

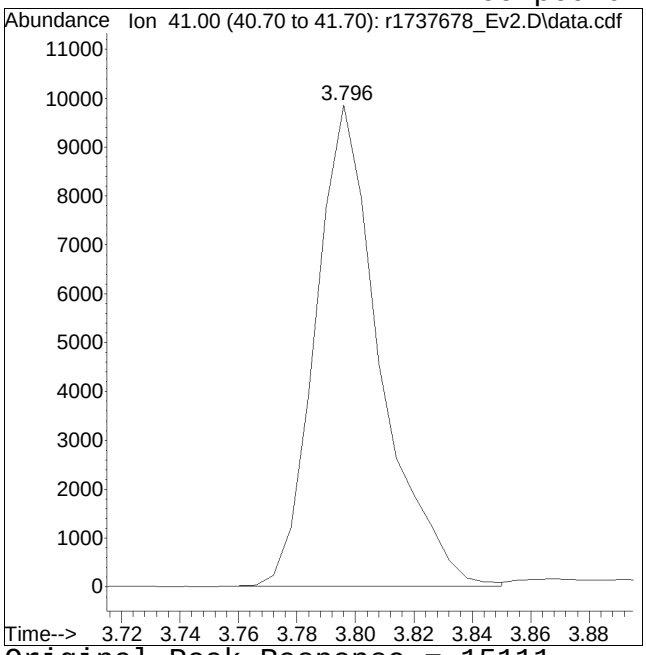


Manual Integration Report

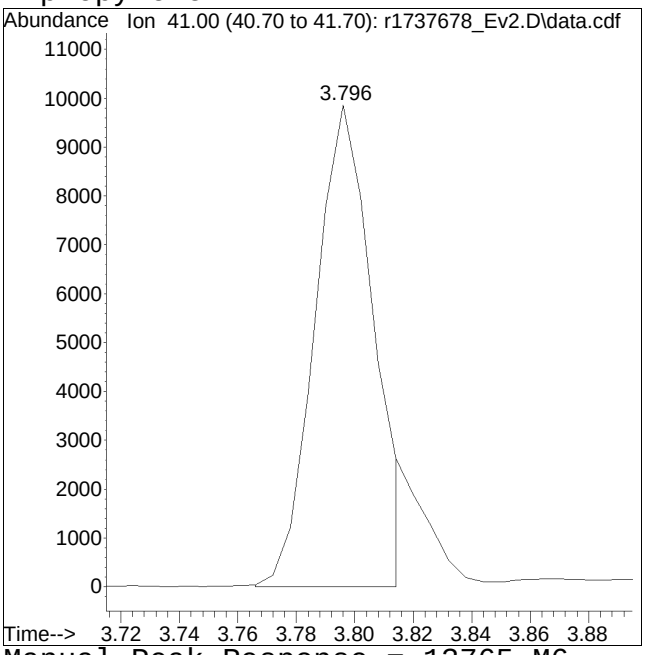
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737678_Ev2.D
Date Inj'd : 1/7/2020 0:1: 6
Sample : ITO15-SIMSTD1.0

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:20 pm

Compound #2: propylene



Original Peak Response = 15111



Manual Peak Response = 13765 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737679_Ev2.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:47:13 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	254708	10.000	ppbV	0.02
Standard Area = 254708			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.070	114	737324	10.000	ppbV	0.02
Standard Area = 737324			Recovery = 100.00%			
51) chlorobenzene-D5	15.825	54	91988	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 100.00%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	214380	8.720	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 87.20%			
53) toluene-D8	13.925	98	746158	8.959	ppbV	0.02
Spiked Amount 10.000	Range 70 - 130		Recovery = 89.59%			
67) bromofluorobenzene	17.208	95	460327	8.661	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 86.61%			
Target Compounds						Qvalue
2) propylene	3.796	41	58040M6	4.459	ppbV	
3) dichlorodifluoromethane	3.862	85	133995	4.755	ppbV	99
4) chloromethane	4.018	50	66536	4.565	ppbV	99
5) Freon-114	4.120	85	163908	4.491	ppbV	97
6) vinyl chloride	4.234	62	69420	4.298	ppbV	100
7) 1,3-butadiene	4.372	54	57615	4.345	ppbV	99
8) bromomethane	4.642	94	60079	4.264	ppbV	100
9) chloroethane	4.816	64	31389	4.412	ppbV	98
10) ethanol	4.930	31	278965	23.471	ppbV	97
11) vinyl bromide	5.187	106	60028	4.377	ppbV	99
12) acrolein	5.303	56	29491	3.803	ppbV	97
13) acetone	5.433	43	383677	24.420	ppbV	93
14) trichlorofluoromethane	5.630	101	108807	4.665	ppbV	99
15) isopropyl alcohol	5.700	45	265480	11.262	ppbV	100
16) acrylonitrile	5.940	53	55849	4.135	ppbV	99
17) 1,1-dichloroethene	6.312	61	89045	4.424	ppbV	99
18) tertiary butyl alcohol	6.348	59	116553	4.610	ppbV	92
19) methylene chloride	6.450	49	82779	4.098	ppbV	93
20) 3-chloropropene	6.576	41	95004	4.560	ppbV	97
21) carbon disulfide	6.744	76	228970	5.082	ppbV	99
22) Freon 113	6.750	101	138169	4.499	ppbV	99
23) trans-1,2-dichloroethene	7.483	61	92676	4.214	ppbV	98
24) 1,1-dichloroethane	7.700	63	117979	4.225	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737679_Ev2.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:47:13 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.775	73	173576	4.478	ppbV		98
26) vinyl acetate	7.892	43	157189	4.720	ppbV		98
27) 2-butanone	8.142	43	158897	4.634	ppbV		99
28) cis-1,2-dichloroethene	8.650	61	88145	4.239	ppbV		95
29) Ethyl Acetate	8.917	61	22473	4.538	ppbV		81
30) chloroform	8.992	83	127771	4.243	ppbV		98
31) Tetrahydrofuran	9.417	42	89823	4.527	ppbV		98
32) 1,2-dichloroethane	9.817	62	69122	4.035	ppbV		98
34) hexane	8.908	57	110077	4.409	ppbV		88
36) 1,1,1-trichloroethane	10.108	97	103302	4.327	ppbV		100
37) benzene	10.637	78	265680	4.407	ppbV		100
38) carbon tetrachloride	10.817	117	102217	4.645	ppbV		99
39) cyclohexane	10.957	56	118654	4.407	ppbV		97
40) Dibromomethane	11.557	93	70450	3.943	ppbV	#	99
41) 1,2-dichloropropane	11.590	63	81122	4.181	ppbV		99
42) bromodichloromethane	11.817	83	124076	4.650	ppbV		100
43) 1,4-dioxane	11.857	88	50838	4.290	ppbV		100
44) trichloroethene	11.870	130	109245	4.221	ppbV		97
45) 2,2,4-trimethylpentane	11.923	57	353232	4.428	ppbV		97
46) heptane	12.243	43	159996	4.517	ppbV		99
47) cis-1,3-dichloropropene	12.883	75	133433	4.863	ppbV		97
48) 4-methyl-2-pentanone	12.925	43	191846	4.601	ppbV		100
49) trans-1,3-dichloropropene	13.508	75	105147	4.782	ppbV		96
50) 1,1,2-trichloroethane	13.708	97	93723	4.307	ppbV		95
52) toluene	14.042	91	277491	4.551	ppbV		100
54) 2-hexanone	14.333	43	174370	4.734	ppbV		98
55) dibromochloromethane	14.500	129	122673	5.139	ppbV		99
56) 1,2-dibromoethane	14.750	107	148334	4.592	ppbV		97
57) tetrachloroethene	15.225	166	106940	4.216	ppbV		98
58) 1,1,1,2-tetrachloroethane	15.858	131	96149	4.452	ppbV		99
59) chlorobenzene	15.867	112	246709	4.330	ppbV		96
60) ethylbenzene	16.225	91	353297	4.489	ppbV		97
61) m+p-xylene	16.392	91	553082	8.820	ppbV		99
62) bromoform	16.450	173	87487	5.549	ppbV		100
63) styrene	16.717	104	241169	4.546	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.808	83	208128	4.385	ppbV		99
65) o-xylene	16.808	91	280509	4.427	ppbV		96
66) 1,2,3-Trichloropropane	16.925	75	154035	4.208	ppbV		98
68) isopropylbenzene	17.325	105	358866	4.196	ppbV		99
69) Bromobenzene	17.400	77	197578	4.165	ppbV		96

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737679_Ev2.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:47:13 2023
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

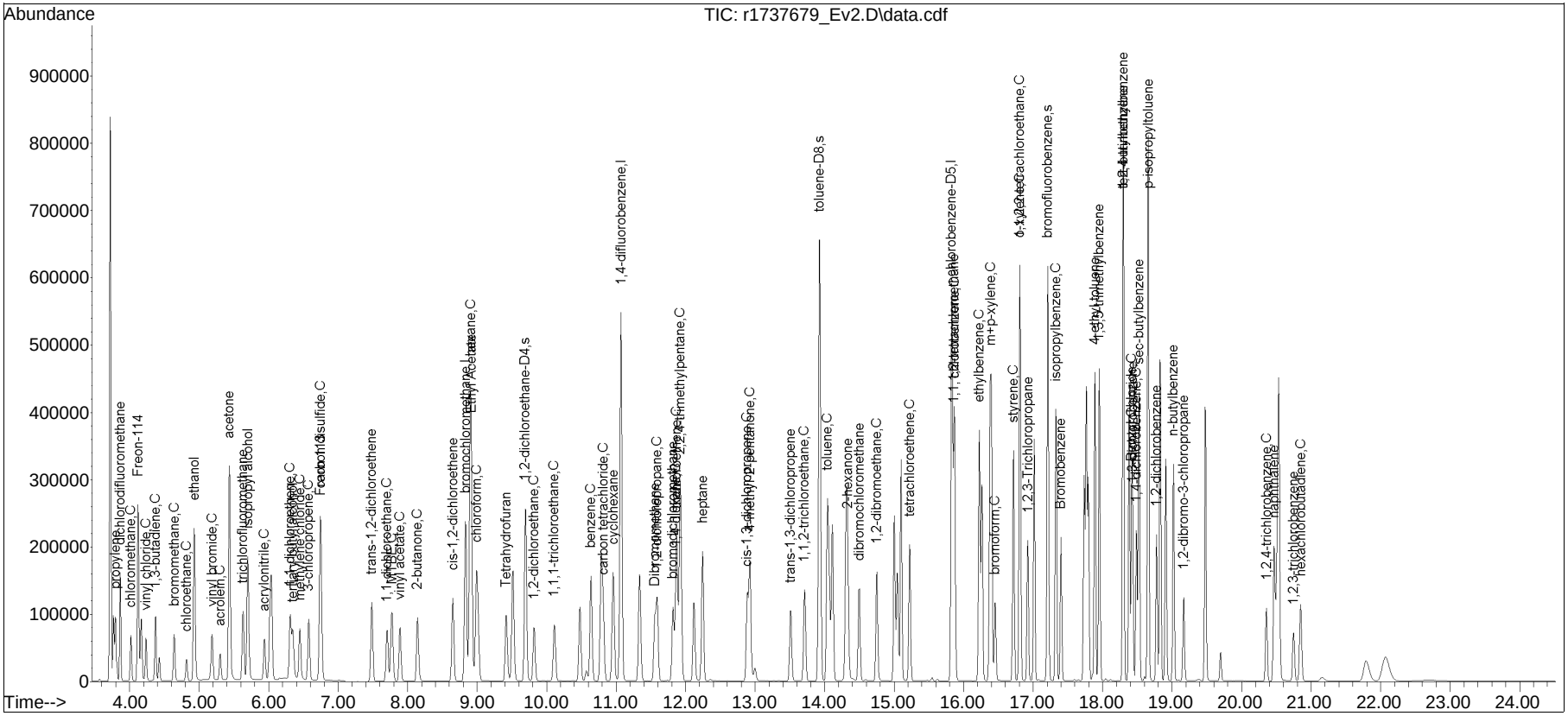
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.892	105	383698	4.288	ppbV	99
71) 1,3,5-trimethylbenzene	17.950	105	334016	4.299	ppbV	99
72) tert-butylbenzene	18.300	119	316663	4.144	ppbV	98
73) 1,2,4-trimethylbenzene	18.300	105	336356	4.417	ppbV	99
74) Benzyl Chloride	18.417	91	174394	5.454	ppbV	99
75) 1,3-dichlorobenzene	18.433	146	198824	4.276	ppbV	99
76) 1,4-dichlorobenzene	18.483	146	193419	4.294	ppbV	98
77) sec-butylbenzene	18.525	105	448647	4.138	ppbV	99
78) p-isopropyltoluene	18.658	119	376661	4.111	ppbV	99
79) 1,2-dichlorobenzene	18.775	146	184662	4.174	ppbV	98
80) n-butylbenzene	19.017	91	324633	4.183	ppbV	98
81) 1,2-dibromo-3-chloropr...	19.167	75	70487	5.143	ppbV	94
82) 1,2,4-trichlorobenzene	20.358	180	121308	4.310	ppbV	99
83) naphthalene	20.467	128	312588	3.346	ppbV	100
84) 1,2,3-trichlorobenzene	20.750	180	90608	3.648	ppbV	98
85) hexachlorobutadiene	20.850	225	118460	4.487	ppbV	97

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737679_Ev2.D
Acq On : 8 Jan 2024 12:15 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:17:00 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Nov 06 10:47:13 2023
Response via : Initial Calibration

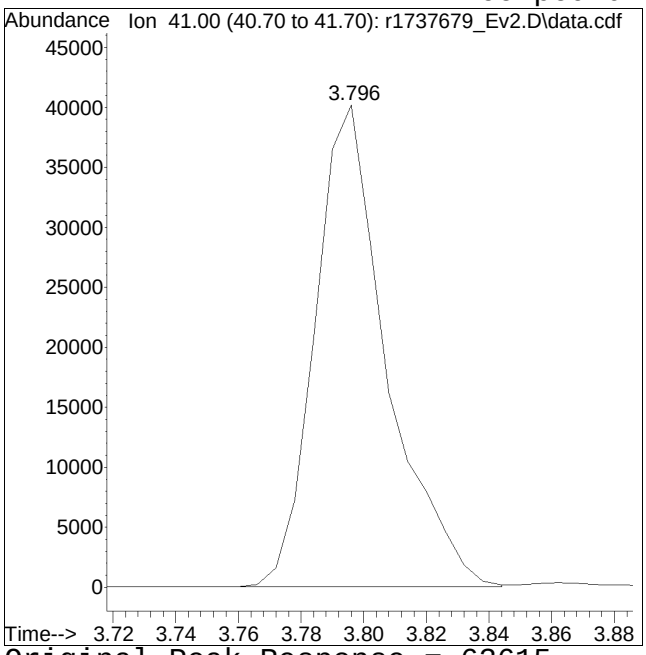


Manual Integration Report

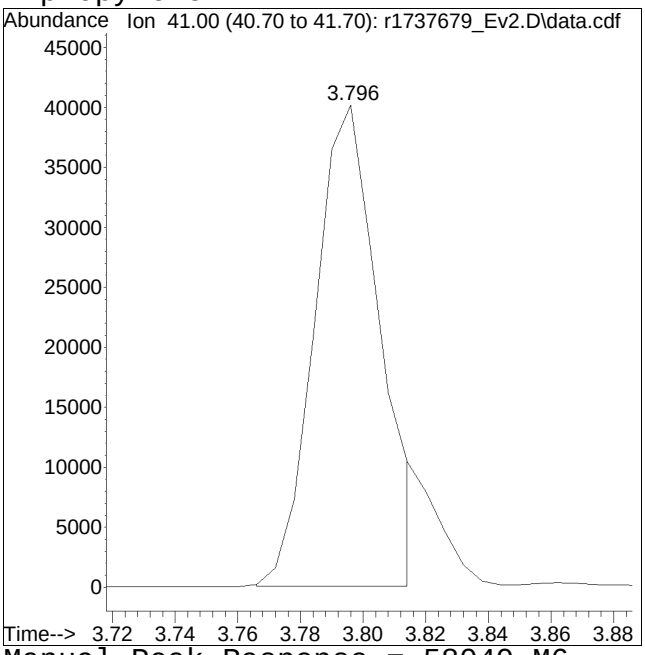
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737679_Ev2.D
Date Inj'd : 1/8/2020 0:2: 5
Sample : ITO15-SIMSTD5.0

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:17 pm

Compound #2: propylene



Original Peak Response = 63615



Manual Peak Response = 58040 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737680_Ev2.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	251858	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 98.88%			
33) 1,4-difluorobenzene	11.070	114	723971	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 98.19%			
51) chlorobenzene-D5	15.825	54	90794	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 98.70%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	207163	9.842	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.42%			
53) toluene-D8	13.925	98	724326	9.835	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.35%			
67) bromofluorobenzene	17.208	95	452390	9.957	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.57%			
Target Compounds						Qvalue
2) propylene	3.790	41	106206M6	9.253	ppbV	
3) dichlorodifluoromethane	3.862	85	258063	9.739	ppbV	99
4) chloromethane	4.018	50	130987	9.955	ppbV	100
5) Freon-114	4.120	85	320900	9.900	ppbV	98
6) vinyl chloride	4.234	62	136845	9.968	ppbV	100
7) 1,3-butadiene	4.372	54	114020	10.007	ppbV	97
8) bromomethane	4.636	94	118803	9.999	ppbV	99
9) chloroethane	4.816	64	62283	10.033	ppbV	100
10) ethanol	4.924	31	497338	45.074	ppbV	99
11) vinyl bromide	5.183	106	118372	9.971	ppbV	99
12) acrolein	5.300	56	58697	10.064	ppbV	99
13) acetone	5.430	43	755551	49.788	ppbV	99
14) trichlorofluoromethane	5.630	101	214187	9.954	ppbV	100
15) isopropyl alcohol	5.697	45	526204	25.056	ppbV	100
16) acrylonitrile	5.937	53	113074	10.238	ppbV	99
17) 1,1-dichloroethene	6.306	61	175896	9.989	ppbV	98
18) tertiary butyl alcohol	6.342	59	229405	9.953	ppbV	100
19) methylene chloride	6.444	49	163179	9.968	ppbV	98
20) 3-chloropropene	6.576	41	188734	10.045	ppbV	99
21) carbon disulfide	6.744	76	456500	10.081	ppbV	98
22) Freon 113	6.744	101	272127	9.959	ppbV	100
23) trans-1,2-dichloroethene	7.483	61	183645	10.020	ppbV	98
24) 1,1-dichloroethane	7.700	63	233194	9.995	ppbV	99

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737680_Ev2.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.767	73	343871	10.018	ppbV		98
26) vinyl acetate	7.892	43	317356	10.209	ppbV		99
27) 2-butanone	8.142	43	318596	10.139	ppbV		99
28) cis-1,2-dichloroethene	8.650	61	174555	10.014	ppbV		99
29) Ethyl Acetate	8.917	61	44955	10.115	ppbV		88
30) chloroform	8.992	83	252065	9.976	ppbV		99
31) Tetrahydrofuran	9.408	42	178938	10.073	ppbV		98
32) 1,2-dichloroethane	9.817	62	136682	9.999	ppbV		100
34) hexane	8.900	57	217131	10.045	ppbV		87
36) 1,1,1-trichloroethane	10.108	97	205288	10.120	ppbV		99
37) benzene	10.637	78	526879	10.099	ppbV		100
38) carbon tetrachloride	10.810	117	206588	10.292	ppbV		98
39) cyclohexane	10.957	56	234085	10.046	ppbV		100
40) Dibromomethane	11.557	93	140248	10.137	ppbV	#	99
41) 1,2-dichloropropane	11.590	63	161670	10.148	ppbV		100
42) bromodichloromethane	11.817	83	251136	10.307	ppbV		99
43) 1,4-dioxane	11.850	88	101491	10.166	ppbV		98
44) trichloroethene	11.870	130	217089	10.119	ppbV		99
45) 2,2,4-trimethylpentane	11.923	57	695795	10.031	ppbV		100
46) heptane	12.243	43	319240	10.161	ppbV		99
47) cis-1,3-dichloropropene	12.883	75	268484	10.246	ppbV		99
48) 4-methyl-2-pentanone	12.917	43	383790	10.187	ppbV		99
49) trans-1,3-dichloropropene	13.508	75	213863	10.357	ppbV		99
50) 1,1,2-trichloroethane	13.708	97	186370	10.126	ppbV		99
52) toluene	14.042	91	547605	9.997	ppbV		100
54) 2-hexanone	14.325	43	354568	10.301	ppbV		100
55) dibromochloromethane	14.492	129	253814	10.481	ppbV		99
56) 1,2-dibromoethane	14.750	107	295418	10.089	ppbV		99
57) tetrachloroethene	15.225	166	211241	10.006	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.858	131	194706	10.258	ppbV		99
59) chlorobenzene	15.867	112	487885	10.018	ppbV		100
60) ethylbenzene	16.225	91	708459	10.158	ppbV		100
61) m+p-xylene	16.392	91	1121307	20.540	ppbV		99
62) bromoform	16.450	173	184428	10.679	ppbV		99
63) styrene	16.717	104	486587	10.221	ppbV		100
64) 1,1,2,2-tetrachloroethane	16.808	83	414340	10.085	ppbV		100
65) o-xylene	16.808	91	560840	10.128	ppbV		98
66) 1,2,3-Trichloropropane	16.917	75	305725	10.054	ppbV		100
68) isopropylbenzene	17.325	105	704801	9.949	ppbV		99
69) Bromobenzene	17.400	77	391388	10.035	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737680_Ev2.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

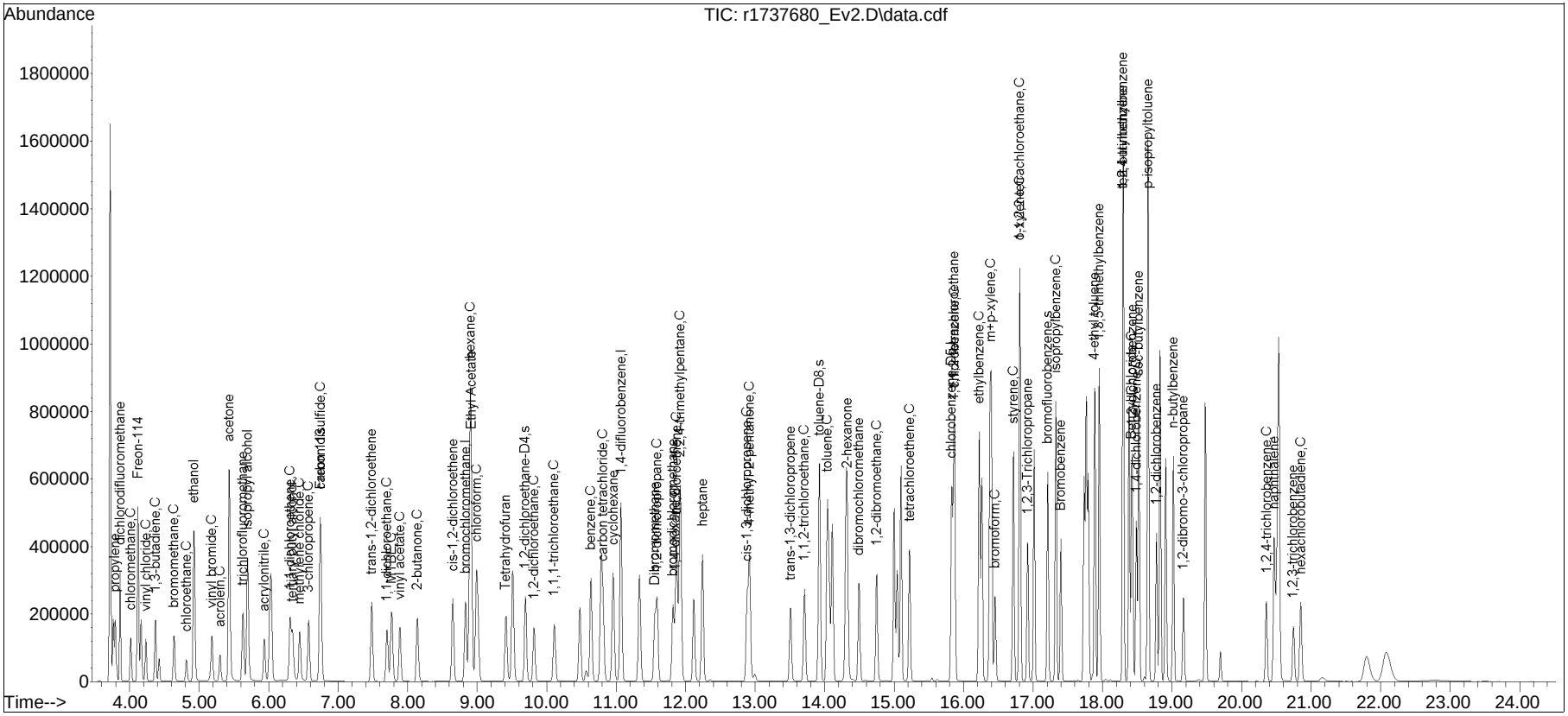
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.883	105	758198	10.010	ppbV	98
71) 1,3,5-trimethylbenzene	17.950	105	655493	9.941	ppbV	99
72) tert-butylbenzene	18.292	119	618648	9.897	ppbV	99
73) 1,2,4-trimethylbenzene	18.292	105	657267	9.899	ppbV	93
74) Benzyl Chloride	18.417	91	378446	10.993	ppbV	98
75) 1,3-dichlorobenzene	18.425	146	400988	10.217	ppbV	90
76) 1,4-dichlorobenzene	18.483	146	392758	10.287	ppbV	98
77) sec-butylbenzene	18.517	105	880524	9.942	ppbV	95
78) p-isopropyltoluene	18.650	119	744422	10.012	ppbV	97
79) 1,2-dichlorobenzene	18.775	146	374858	10.283	ppbV	98
80) n-butylbenzene	19.017	91	645779	10.077	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.158	75	148832	10.696	ppbV	99
82) 1,2,4-trichlorobenzene	20.358	180	266905	11.146	ppbV	100
83) naphthalene	20.467	128	674472	10.930	ppbV	100
84) 1,2,3-trichlorobenzene	20.742	180	201954	11.291	ppbV	98
85) hexachlorobutadiene	20.850	225	242282	10.361	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737680_Ev2.D
Acq On : 8 Jan 2024 12:56 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD10.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:10 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

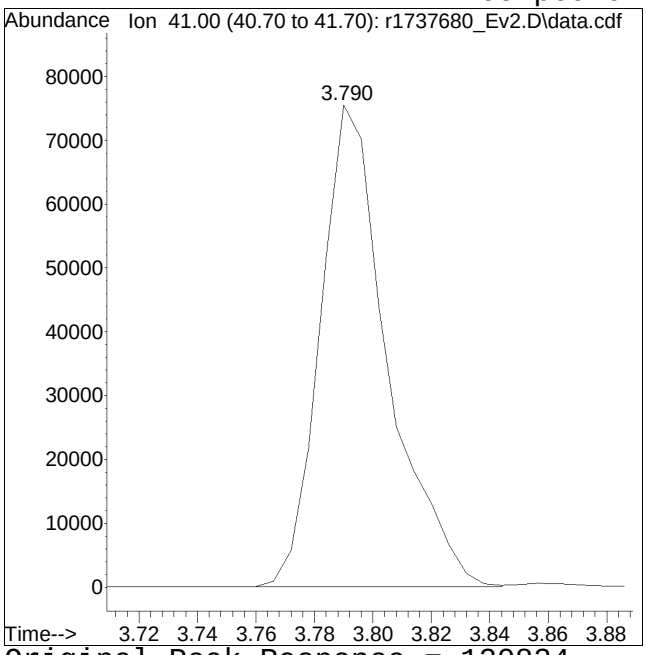


Manual Integration Report

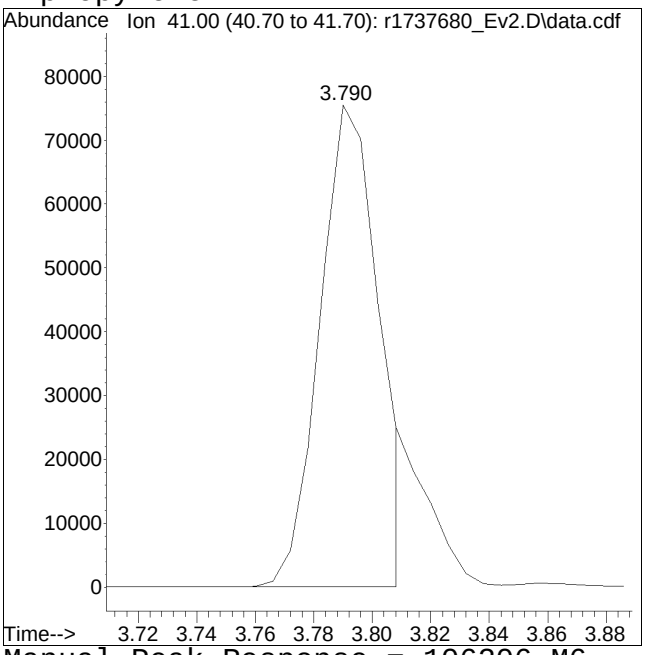
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737680_Ev2.D
Date Inj'd : 1/8/2020 0:2: 6
Sample : ITO15-SIMSTD10.0

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 120824



Manual Peak Response = 106206 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737681_Ev2.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.825	49	256563	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 100.73%			
33) 1,4-difluorobenzene	11.063	114	730351	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 99.05%			
51) chlorobenzene-D5	15.825	54	92121	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 100.14%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.683	65	208665	9.826	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.26%			
53) toluene-D8	13.917	98	733580	9.817	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 98.17%			
67) bromofluorobenzene	17.208	95	457252	9.919	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 99.19%			
Target Compounds						Qvalue
2) propylene	3.790	41	213730M6	18.279	ppbV	
3) dichlorodifluoromethane	3.862	85	506523	18.764	ppbV	98
4) chloromethane	4.012	50	256150	19.110	ppbV	99
5) Freon-114	4.120	85	619181	18.752	ppbV	97
6) vinyl chloride	4.234	62	271056	19.382	ppbV	100
7) 1,3-butadiene	4.366	54	227370	19.589	ppbV	98
8) bromomethane	4.636	94	237449	19.619	ppbV	100
9) chloroethane	4.816	64	124412	19.674	ppbV	98
10) ethanol	4.924	31	1033061	91.910	ppbV	100
11) vinyl bromide	5.180	106	241611	19.979	ppbV	99
12) acrolein	5.297	56	128526	21.633	ppbV	99
13) acetone	5.427	43	1546474	100.038	ppbV	98
14) trichlorofluoromethane	5.627	101	427490	19.502	ppbV	99
15) isopropyl alcohol	5.693	45	1081139	50.537	ppbV	100
16) acrylonitrile	5.930	53	242345	21.540	ppbV	100
17) 1,1-dichloroethene	6.300	61	358408	19.980	ppbV	98
18) tertiary butyl alcohol	6.336	59	492120	20.959	ppbV	93
19) methylene chloride	6.444	49	379549	22.760	ppbV	96
20) 3-chloropropene	6.570	41	384315	20.080	ppbV	99
21) carbon disulfide	6.738	76	928952	20.139	ppbV	97
22) Freon 113	6.738	101	539972	19.399	ppbV	99
23) trans-1,2-dichloroethene	7.475	61	372182	19.935	ppbV	99
24) 1,1-dichloroethane	7.700	63	466824	19.641	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737681_Ev2.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.758	73	698054	19.963	ppbV		98
26) vinyl acetate	7.883	43	662324	20.915	ppbV		99
27) 2-butanone	8.125	43	645856	20.176	ppbV		99
28) cis-1,2-dichloroethene	8.642	61	349922	19.706	ppbV		100
29) Ethyl Acetate	8.908	61	91964	20.313	ppbV		86
30) chloroform	8.983	83	503645	19.566	ppbV		99
31) Tetrahydrofuran	9.400	42	364599	20.149	ppbV		99
32) 1,2-dichloroethane	9.808	62	270448	19.422	ppbV		99
34) hexane	8.900	57	440960	20.221	ppbV		94
36) 1,1,1-trichloroethane	10.100	97	448001	21.891	ppbV		100
37) benzene	10.630	78	1046612	19.885	ppbV		100
38) carbon tetrachloride	10.803	117	420318	20.756	ppbV		98
39) cyclohexane	10.950	56	477064	20.295	ppbV		100
40) Dibromomethane	11.550	93	298090	21.358	ppbV	#	99
41) 1,2-dichloropropane	11.583	63	320974	19.972	ppbV		99
42) bromodichloromethane	11.810	83	518663	21.101	ppbV		100
43) 1,4-dioxane	11.843	88	208970	20.749	ppbV		99
44) trichloroethene	11.870	130	434828	20.092	ppbV		99
45) 2,2,4-trimethylpentane	11.917	57	1414621	20.215	ppbV		100
46) heptane	12.237	43	641850	20.250	ppbV		99
47) cis-1,3-dichloropropene	12.875	75	541081	20.469	ppbV		99
48) 4-methyl-2-pentanone	12.908	43	783691	20.620	ppbV		99
49) trans-1,3-dichloropropene	13.500	75	431778	20.728	ppbV		100
50) 1,1,2-trichloroethane	13.700	97	372247	20.048	ppbV		100
52) toluene	14.033	91	1095422	19.709	ppbV		100
54) 2-hexanone	14.317	43	728382	20.856	ppbV		99
55) dibromochloromethane	14.492	129	528900	21.526	ppbV		99
56) 1,2-dibromoethane	14.742	107	587484	19.774	ppbV		99
57) tetrachloroethene	15.217	166	419115	19.568	ppbV		100
58) 1,1,1,2-tetrachloroethane	15.850	131	419589	21.788	ppbV		99
59) chlorobenzene	15.867	112	962502	19.479	ppbV		97
60) ethylbenzene	16.217	91	1392348	19.677	ppbV		99
61) m+p-xylene	16.392	91	2192146	39.578	ppbV		100
62) bromoform	16.450	173	397114	22.663	ppbV		98
63) styrene	16.708	104	956485	19.802	ppbV		98
64) 1,1,2,2-tetrachloroethane	16.800	83	822655	19.735	ppbV		99
65) o-xylene	16.808	91	1099013	19.561	ppbV		97
66) 1,2,3-Trichloropropane	16.917	75	655447	21.245	ppbV		99
68) isopropylbenzene	17.325	105	1481627	20.613	ppbV		95
69) Bromobenzene	17.392	77	841968	21.276	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737681_Ev2.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

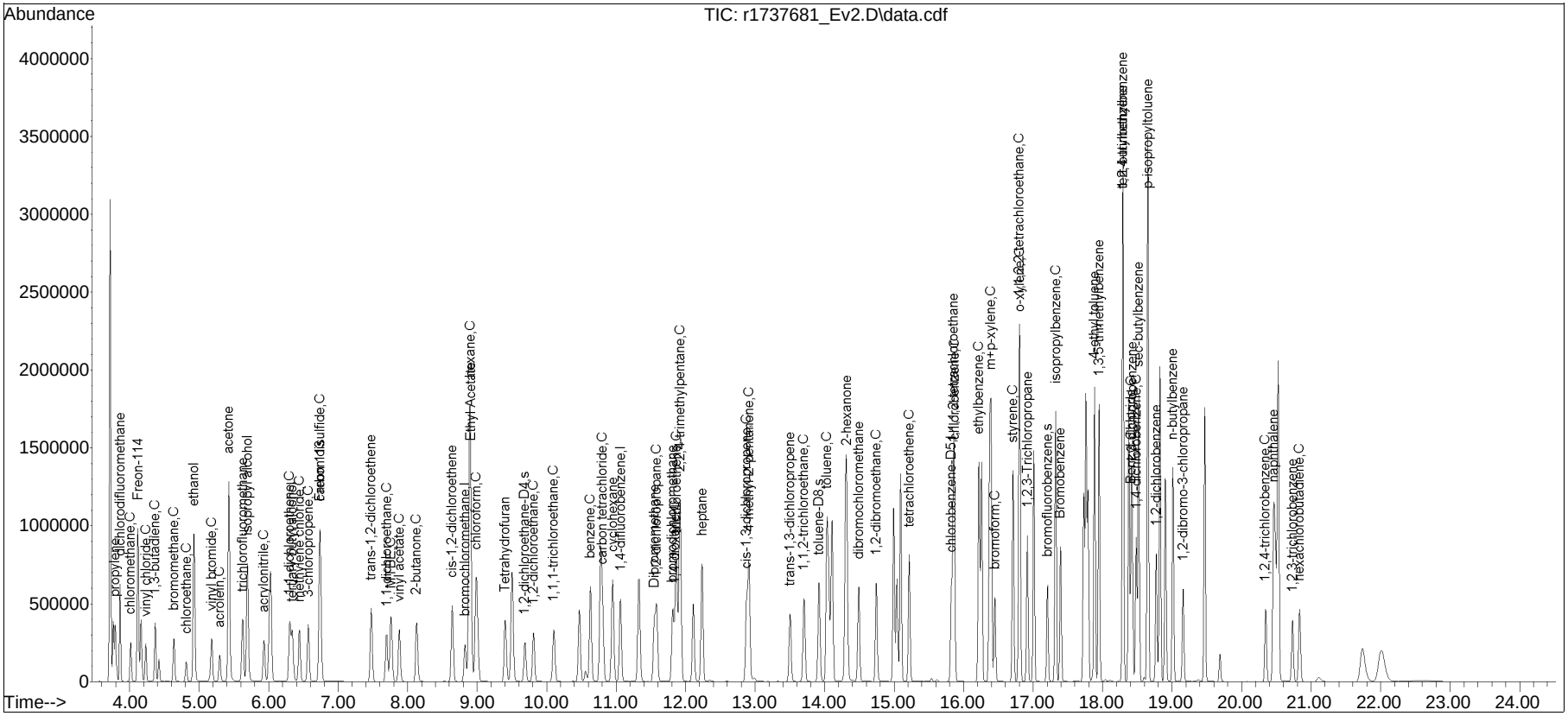
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.883	105	1519525	19.772	ppbV	99
71) 1,3,5-trimethylbenzene	17.950	105	1280311	19.138	ppbV	96
72) tert-butylbenzene	18.292	119	1308065	20.624	ppbV	100
73) 1,2,4-trimethylbenzene	18.292	105	1287395	19.110	ppbV	92
74) Benzyl Chloride	18.408	91	841399	24.089	ppbV	99
75) 1,3-dichlorobenzene	18.425	146	785959	19.737	ppbV	94
76) 1,4-dichlorobenzene	18.483	146	780543	20.148	ppbV	95
77) sec-butylbenzene	18.517	105	1839453	20.470	ppbV	99
78) p-isopropyltoluene	18.650	119	1563788	20.729	ppbV	100
79) 1,2-dichlorobenzene	18.775	146	741680	20.053	ppbV	95
80) n-butylbenzene	19.008	91	1382477	21.262	ppbV	99
81) 1,2-dibromo-3-chloropr...	19.158	75	334825	23.717	ppbV	97
82) 1,2,4-trichlorobenzene	20.342	180	521827	21.477	ppbV	98
83) naphthalene	20.458	128	1507240	24.074	ppbV	100
84) 1,2,3-trichlorobenzene	20.733	180	451958	24.904	ppbV	100
85) hexachlorobutadiene	20.833	225	450937	19.006	ppbV	100

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737681_Ev2.D
Acq On : 8 Jan 2024 1:35 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD20
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:36 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

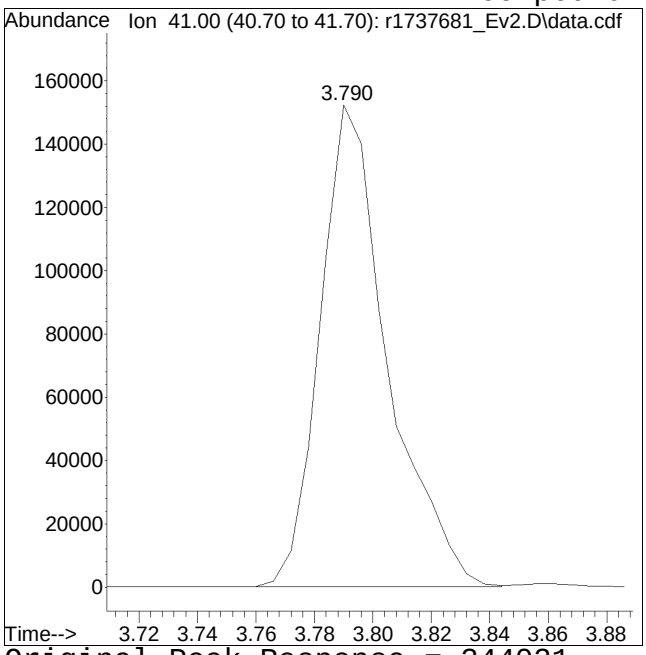


Manual Integration Report

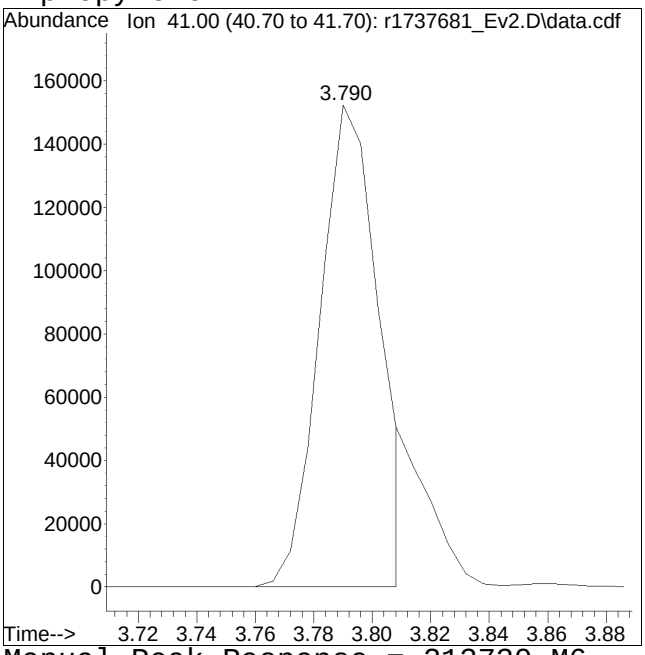
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737681_Ev2.D
Date Inj'd : 1/8/2020 0:1: 5
Sample : ITO15-SIMSTD20

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 244021



Manual Peak Response = 213730 M6

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

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737682_Ev2.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.825	49	254370	10.000	ppbV	0.00
Standard Area = 254708			Recovery = 99.87%			
33) 1,4-difluorobenzene	11.063	114	711103	10.000	ppbV	0.00
Standard Area = 737324			Recovery = 96.44%			
51) chlorobenzene-D5	15.817	54	91254	10.000	ppbV	0.00
Standard Area = 91988			Recovery = 99.20%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.692	65	199157	9.632	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 96.32%			
53) toluene-D8	13.917	98	708610	9.573	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 95.73%			
67) bromofluorobenzene	17.200	95	430123	9.419	ppbV	0.00
Spiked Amount 10.000	Range 70 - 130		Recovery = 94.19%			
Target Compounds						Qvalue
2) propylene	3.790	41	501649M6	43.273	ppbV	
3) dichlorodifluoromethane	3.856	85	1149156	42.938	ppbV	99
4) chloromethane	4.012	50	590986	44.470	ppbV	100
5) Freon-114	4.114	85	1366797	41.749	ppbV	97
6) vinyl chloride	4.228	62	628941	45.360	ppbV	100
7) 1,3-butadiene	4.366	54	516932	44.920	ppbV	98
8) bromomethane	4.636	94	547474	45.623	ppbV	100
9) chloroethane	4.810	64	290279	46.300	ppbV	100
10) ethanol	4.930	31	2249763	201.885	ppbV	100
11) vinyl bromide	5.180	106	556937	46.451	ppbV	98
12) acrolein	5.293	56	301367	51.163	ppbV	99
13) acetone	5.427	43	3469986	226.401	ppbV	95
14) trichlorofluoromethane	5.623	101	976076	44.913	ppbV	100
15) isopropyl alcohol	5.697	45	2443293	115.194	ppbV	99
16) acrylonitrile	5.933	53	572015	51.279	ppbV	100
17) 1,1-dichloroethene	6.300	61	818754	46.035	ppbV	100
18) tertiary butyl alcohol	6.342	59	1153911	49.567	ppbV	100
19) methylene chloride	6.438	49	864690	52.298	ppbV	94
20) 3-chloropropene	6.570	41	875526	46.140	ppbV	98
21) carbon disulfide	6.738	76	2085710	45.606	ppbV	97
22) Freon 113	6.738	101	1218015	44.136	ppbV	98
23) trans-1,2-dichloroethene	7.475	61	854818	46.180	ppbV	100
24) 1,1-dichloroethane	7.692	63	1063588	45.135	ppbV	100

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737682_Ev2.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.758	73	1607763	46.374	ppbV		98
26) vinyl acetate	7.883	43	1518025	48.351	ppbV		99
27) 2-butanone	8.125	43	1487165	46.859	ppbV		99
28) cis-1,2-dichloroethene	8.642	61	801014	45.498	ppbV		99
29) Ethyl Acetate	8.908	61	216699	48.277	ppbV		76
30) chloroform	8.983	83	1149245	45.033	ppbV		99
31) Tetrahydrofuran	9.400	42	842776	46.975	ppbV		99
32) 1,2-dichloroethane	9.808	62	616425	44.649	ppbV		99
34) hexane	8.900	57	1014247	47.769	ppbV		93
36) 1,1,1-trichloroethane	10.100	97	1000449	50.209	ppbV		100
37) benzene	10.630	78	2362839	46.107	ppbV		98
38) carbon tetrachloride	10.803	117	973271	49.364	ppbV		98
39) cyclohexane	10.950	56	1103657	48.222	ppbV		99
40) Dibromomethane	11.550	93	681181	50.128	ppbV	#	98
41) 1,2-dichloropropane	11.583	63	736169	47.047	ppbV		99
42) bromodichloromethane	11.810	83	1204305	50.320	ppbV		99
43) 1,4-dioxane	11.843	88	489091	49.877	ppbV		98
44) trichloroethene	11.863	130	1002064	47.554	ppbV		100
45) 2,2,4-trimethylpentane	11.917	57	3207851	47.081	ppbV		100
46) heptane	12.237	43	1438214	46.603	ppbV		97
47) cis-1,3-dichloropropene	12.875	75	1240603	48.202	ppbV		99
48) 4-methyl-2-pentanone	12.908	43	1769304	47.813	ppbV		98
49) trans-1,3-dichloropropene	13.500	75	1004544	49.530	ppbV		99
50) 1,1,2-trichloroethane	13.700	97	843219	46.643	ppbV		98
52) toluene	14.033	91	2476745	44.986	ppbV		100
54) 2-hexanone	14.317	43	1648458	47.649	ppbV		96
55) dibromochloromethane	14.492	129	1231833	50.612	ppbV		98
56) 1,2-dibromoethane	14.742	107	1325405	45.036	ppbV		99
57) tetrachloroethene	15.217	166	962575	45.367	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.850	131	964380	50.554	ppbV		99
59) chlorobenzene	15.867	112	2180646	44.550	ppbV		97
60) ethylbenzene	16.217	91	3135702	44.735	ppbV		100
61) m+p-xylene	16.392	91	4929798	89.850	ppbV		99
62) bromoform	16.450	173	947362	54.579	ppbV		98
63) styrene	16.708	104	2155277	45.043	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.800	83	1881601	45.567	ppbV		100
65) o-xylene	16.808	91	2467675	44.339	ppbV		97
66) 1,2,3-Trichloropropane	16.917	75	1511046	49.443	ppbV		99
68) isopropylbenzene	17.325	105	3294245	46.267	ppbV		92
69) Bromobenzene	17.392	77	1918532	48.942	ppbV		98

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737682_Ev2.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

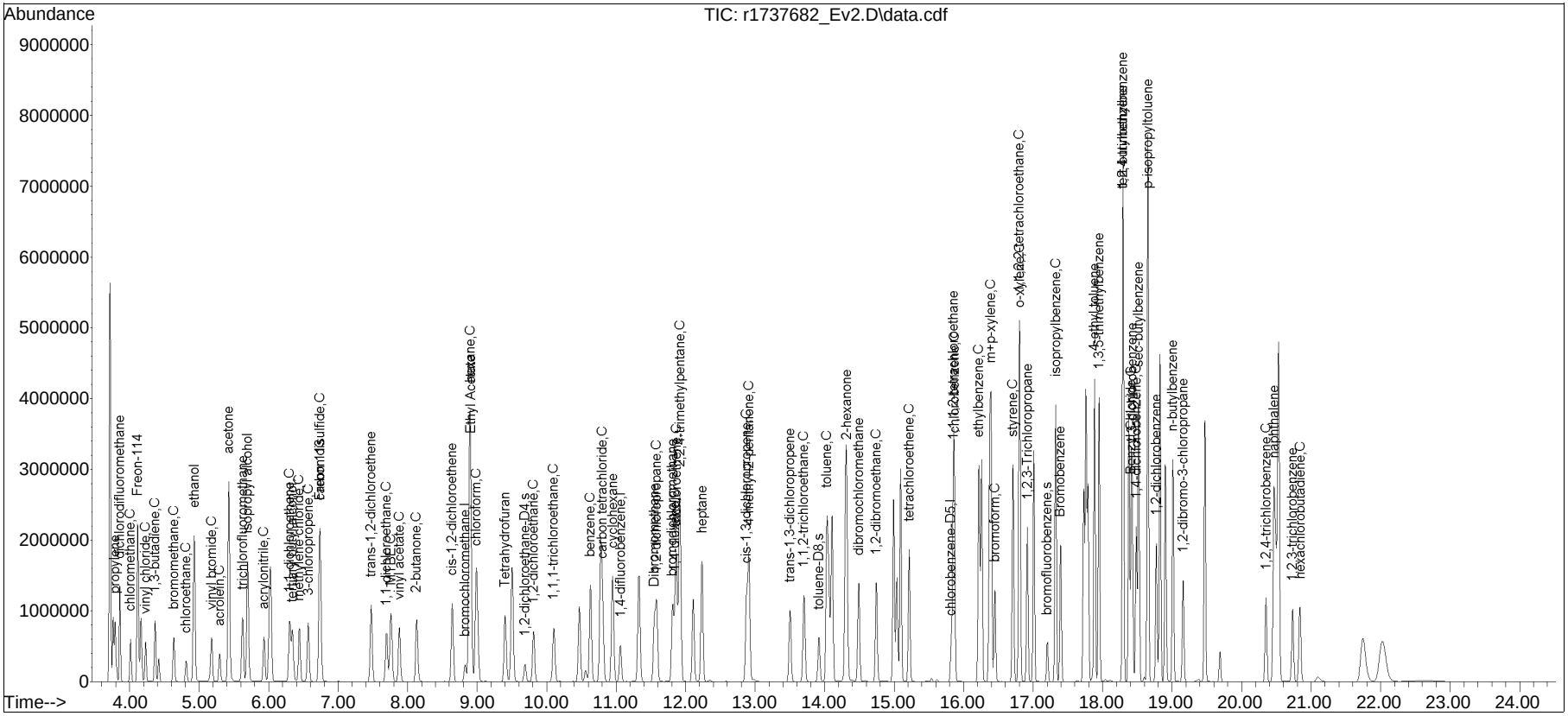
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
70) 4-ethyl toluene	17.883	105	3391958	44.556	ppbV		96
71) 1,3,5-trimethylbenzene	17.950	105	2859144	43.144	ppbV		92
72) tert-butylbenzene	18.292	119	2960374	47.119	ppbV		97
73) 1,2,4-trimethylbenzene	18.292	105	2825882	42.345	ppbV	#	89
74) Benzyl Chloride	18.408	91	2073621	59.930	ppbV		100
75) 1,3-dichlorobenzene	18.425	146	1853721	46.992	ppbV		92
76) 1,4-dichlorobenzene	18.483	146	1796004	46.801	ppbV		97
77) sec-butylbenzene	18.517	105	4117411	46.256	ppbV		98
78) p-isopropyltoluene	18.650	119	3548088	47.478	ppbV		97
79) 1,2-dichlorobenzene	18.775	146	1734836	47.351	ppbV		96
80) n-butylbenzene	19.008	91	3166880	49.169	ppbV		97
81) 1,2-dibromo-3-chloropr...	19.158	75	810746	57.973	ppbV		96
82) 1,2,4-trichlorobenzene	20.350	180	1326965	55.134	ppbV		99
83) naphthalene	20.467	128	3833589	61.813	ppbV		100
84) 1,2,3-trichlorobenzene	20.733	180	1179880	65.633	ppbV		99
85) hexachlorobutadiene	20.842	225	1089961	46.375	ppbV		98

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737682_Ev2.D
Acq On : 8 Jan 2024 2:14 AM
Operator : AIRLAB17:RAY
Sample : ITO15-SIMSTD50
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:21:46 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:19:42 2024
Response via : Initial Calibration

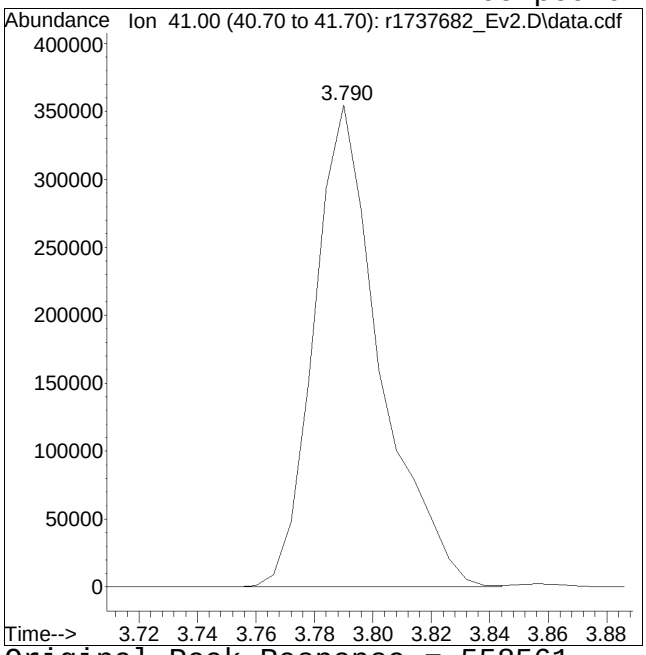


Manual Integration Report

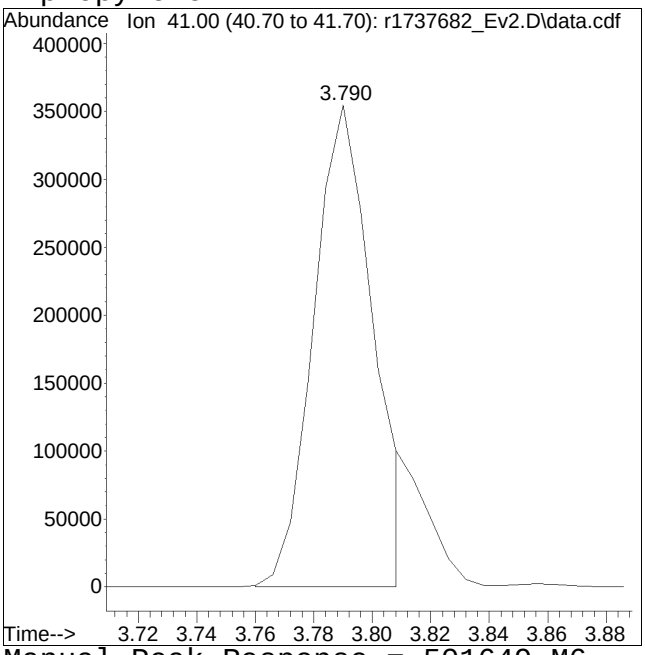
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737682_Ev2.D
Date Inj'd : 1/8/2020 0:2: 4
Sample : ITO15-SIMSTD50

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:21 pm

Compound #2: propylene



Original Peak Response = 558561



Manual Peak Response = 501649 M6

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

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	93	-0.04
2		propylene	0.483	0.476	1.4	97	-0.03
3		dichlorodifluoromethane	1.032	0.985	4.6	87	-0.02
4	C	chloromethane	0.517	0.466	9.9	83	-0.03
5		Freon-114	1.270	1.319	-3.9	96	-0.03
6	C	vinyl chloride	0.546	0.537	1.6	92	-0.03
7	C	1,3-butadiene	0.447	0.492	-10.1	101	-0.03
8	C	bromomethane	0.476	0.483	-1.5	95	-0.03
9	C	chloroethane	0.250	0.249	0.4	94	-0.03
10		ethanol	0.421	0.481	-14.3	102	-0.04
11	C	vinyl bromide	0.476	0.485	-1.9	96	-0.04
12	C	acrolein	0.274	0.241	12.0	97	-0.04
13		acetone	0.649	0.621	4.3	96	-0.03
14		trichlorofluoromethane	0.879	0.844	4.0	92	-0.03
15		isopropyl alcohol	0.837	0.804	3.9	90	-0.04
16	C	acrylonitrile	0.469	0.467	0.4	99	-0.04
17	C	1,1-dichloroethene	0.698	0.720	-3.2	96	-0.04
18		tertiary butyl alcohol	0.944	0.986	-4.4	100	-0.04
19	C	methylene chloride	0.680	0.637	6.3	91	-0.04
20	C	3-chloropropene	0.741	0.809	-9.2	101	-0.04
21	C	carbon disulfide	1.791	1.791	0.0	93	-0.04
22		Freon 113	1.088	1.056	2.9	91	-0.04
23		trans-1,2-dichloroethene	0.716	0.747	-4.3	96	-0.04
24	C	1,1-dichloroethane	0.909	0.888	2.3	89	-0.03
25	C	MTBE	1.323	1.420	-7.3	97	-0.04
26	C	vinyl acetate	1.250	1.158	7.4	87	-0.04
27	C	2-butanone	1.242	1.277	-2.8	95	-0.04
28		cis-1,2-dichloroethene	0.688	0.681	1.0	92	-0.04
29		Ethyl Acetate	0.176	0.191	-8.5	101	-0.03
30	C	chloroform	1.001	0.992	0.9	92	-0.04
31		Tetrahydrofuran	0.697	0.702	-0.7	93	-0.04
32	C	1,2-dichloroethane	0.563	0.516	8.3	89	-0.04
33	I	1,4-difluorobenzene	1.000	1.000	0.0	94	-0.04
34	C	hexane	0.305	0.321	-5.2	100	-0.04
35	s	1,2-dichloroethane-D4	0.288	0.282	2.1	91	-0.03
36	C	1,1,1-trichloroethane	0.281	0.267	5.0	89	-0.03
37	C	benzene	0.747	0.676	9.5	88	-0.04
38	C	carbon tetrachloride	0.277	0.274	1.1	93	-0.05

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
39		cyclohexane	0.332	0.351	-5.7	102	-0.04
40		Dibromomethane	0.210	0.196	6.7	96	-0.04
41	C	1,2-dichloropropane	0.232	0.211	9.1	90	-0.04
42		bromodichloromethane	0.332	0.374	-12.7	104	-0.03
43	C	1,4-dioxane	0.141	0.150	-6.4	102	-0.04
44	C	trichloroethene	0.291	0.285	2.1	90	-0.03
45	C	2,2,4-trimethylpentane	1.031	1.038	-0.7	101	-0.04
46		heptane	0.437	0.449	-2.7	97	-0.04
47	C	cis-1,3-dichloropropene	0.345	0.355	-2.9	92	-0.03
48	C	4-methyl-2-pentanone	0.519	0.534	-2.9	96	-0.04
49		trans-1,3-dichloropropene	0.267	0.277	-3.7	91	-0.03
50	C	1,1,2-trichloroethane	0.251	0.245	2.4	90	-0.03
51	I	chlorobenzene-D5	1.000	1.000	0.0	93	-0.04
52	C	toluene	6.081	5.866	3.5	90	-0.04
53	s	toluene-D8	8.027	8.053	-0.3	92	-0.03
54		2-hexanone	3.630	3.853	-6.1	94	-0.04
55		dibromochloromethane	2.536	3.121	-23.1	108	-0.04
56	C	1,2-dibromoethane	3.064	3.143	-2.6	90	-0.03
57	C	tetrachloroethene	2.349	2.244	4.5	89	-0.03
58		1,1,1,2-tetrachloroethane	2.100	2.192	-4.4	97	-0.04
59	C	chlorobenzene	5.210	5.198	0.2	90	-0.04
60	C	ethylbenzene	7.444	7.233	2.8	87	-0.06
61	C	m+p-xylene	5.903	5.731	2.9	88	-0.06
62	C	bromoform	1.751	2.246	-28.3	109	-0.06
63	C	styrene	4.879	4.973	-1.9	88	-0.07
64	C	1,1,2,2-tetrachloroethane	4.368	4.612	-5.6	94	-0.08
65	C	o-xylene	5.957	5.834	2.1	89	-0.07
66		1,2,3-Trichloropropane	3.458	3.464	-0.2	96	-0.08
67	s	bromofluorobenzene	4.917	4.805	2.3	89	-0.09
68	C	isopropylbenzene	8.086	8.152	-0.8	97	-0.09
69		Bromobenzene	4.347	4.580	-5.4	99	-0.10
70		4-ethyl toluene	7.995	8.774	-9.7	98	-0.13
71		1,3,5-trimethylbenzene	6.935	7.077	-2.0	90	-0.12
72		tert-butylbenzene	7.167	7.103	0.9	96	-0.13
73		1,2,4-trimethylbenzene	6.891	7.099	-3.0	90	-0.13
74	C	Benzyl Chloride	3.668	4.191	-14.3	102	-0.13
75		1,3-dichlorobenzene	4.020	4.305	-7.1	92	-0.14
76	C	1,4-dichlorobenzene	3.872	4.177	-7.9	92	-0.13

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
77		sec-butylbenzene	10.196	10.097	1.0	96	-0.14
78		p-isopropyltoluene	8.577	7.958	7.2	90	-0.15
79		1,2-dichlorobenzene	3.895	3.948	-1.4	91	-0.15
80		n-butylbenzene	7.396	7.621	-3.0	100	-0.16
81		1,2-dibromo-3-chloropropane	1.484	1.724	-16.2	104	-0.17
82	C	1,2,4-trichlorobenzene	2.462	2.556	-3.8	90	-0.17
83		naphthalene	7.485	7.794	-4.1	106	-0.16
84		1,2,3-trichlorobenzene	2.182	2.409	-10.4	113	-0.16
85	C	hexachlorobutadiene	2.524	2.460	2.5	89	-0.15

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.792	49	237541	10.000	ppbV	-0.04
Standard Area = 254708			Recovery = 93.26%			
33) 1,4-difluorobenzene	11.030	114	689778	10.000	ppbV	-0.04
Standard Area = 737324			Recovery = 93.55%			
51) chlorobenzene-D5	15.783	54	85291	10.000	ppbV	-0.04
Standard Area = 91988			Recovery = 92.72%			
System Monitoring Compounds						
35) 1,2-dichloroethane-D4	9.658	65	194469	9.796	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.96%			
53) toluene-D8	13.892	98	686852	10.033	ppbV	-0.03
Spiked Amount 10.000	Range 70 - 130		Recovery = 100.33%			
67) bromofluorobenzene	17.117	95	409819	9.773	ppbV	-0.09
Spiked Amount 10.000	Range 70 - 130		Recovery = 97.73%			
Target Compounds						Qvalue
2) propylene	3.766	41	56532M6	4.932	ppbV	
3) dichlorodifluoromethane	3.838	85	117041	4.775	ppbV	98
4) chloromethane	3.988	50	55395	4.510	ppbV	100
5) Freon-114	4.090	85	156702	5.195	ppbV	98
6) vinyl chloride	4.204	62	63761	4.919	ppbV	99
7) 1,3-butadiene	4.342	54	58425	5.500	ppbV	100
8) bromomethane	4.612	94	57363	5.079	ppbV	100
9) chloroethane	4.786	64	29596	4.984	ppbV	98
10) ethanol	4.894	31	285901	28.603	ppbV	95
11) vinyl bromide	5.150	106	57569	5.091	ppbV	99
12) acrolein	5.267	56	28656	4.409	ppbV	98
13) acetone	5.400	43	369046	23.942	ppbV	97
14) trichlorofluoromethane	5.597	101	100218	4.802	ppbV	100
15) isopropyl alcohol	5.663	45	238851	12.013	ppbV	99
16) acrylonitrile	5.903	53	55433	4.976	ppbV	99
17) 1,1-dichloroethene	6.270	61	85473	5.153	ppbV	98
18) tertiary butyl alcohol	6.306	59	117076	5.222	ppbV	98
19) methylene chloride	6.408	49	75656	4.681	ppbV	99
20) 3-chloropropene	6.540	41	96058	5.459	ppbV	98
21) carbon disulfide	6.702	76	212705	5.000	ppbV	99
22) Freon 113	6.708	101	125443	4.852	ppbV	99
23) trans-1,2-dichloroethene	7.442	61	88713	5.214	ppbV	97
24) 1,1-dichloroethane	7.667	63	105442	4.886	ppbV	100

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
25) MTBE	7.733	73	168597	5.367	ppbV		98
26) vinyl acetate	7.850	43	137508	4.630	ppbV		99
27) 2-butanone	8.100	43	151657	5.139	ppbV		100
28) cis-1,2-dichloroethene	8.608	61	80881	4.952	ppbV		96
29) Ethyl Acetate	8.883	61	22634	5.418	ppbV	#	55
30) chloroform	8.950	83	117785	4.952	ppbV		99
31) Tetrahydrofuran	9.375	42	83426	5.042	ppbV		100
32) 1,2-dichloroethane	9.775	62	61265	4.581	ppbV		98
34) hexane	8.867	57	110594	5.265	ppbV		85
36) 1,1,1-trichloroethane	10.075	97	92168	4.752	ppbV		98
37) benzene	10.597	78	233290	4.530	ppbV		99
38) carbon tetrachloride	10.770	117	94647	4.945	ppbV		100
39) cyclohexane	10.917	56	121216	5.298	ppbV		98
40) Dibromomethane	11.517	93	67573	4.660	ppbV	#	98
41) 1,2-dichloropropane	11.550	63	72794	4.557	ppbV		99
42) bromodichloromethane	11.783	83	129032	5.633	ppbV		99
43) 1,4-dioxane	11.817	88	51753	5.323	ppbV		98
44) trichloroethene	11.837	130	98408	4.895	ppbV		100
45) 2,2,4-trimethylpentane	11.883	57	358002	5.032	ppbV		97
46) heptane	12.203	43	154806	5.131	ppbV		98
47) cis-1,3-dichloropropene	12.850	75	122494	5.142	ppbV		97
48) 4-methyl-2-pentanone	12.883	43	184208	5.144	ppbV		97
49) trans-1,3-dichloropropene	13.475	75	95470	5.189	ppbV		97
50) 1,1,2-trichloroethane	13.675	97	84653	4.896	ppbV		98
52) toluene	14.000	91	250148	4.823	ppbV		99
54) 2-hexanone	14.292	43	164330	5.308	ppbV		98
55) dibromochloromethane	14.458	129	133089	6.152	ppbV		99
56) 1,2-dibromoethane	14.717	107	134049	5.129	ppbV		99
57) tetrachloroethene	15.192	166	95704	4.778	ppbV		99
58) 1,1,1,2-tetrachloroethane	15.817	131	93469	5.217	ppbV		99
59) chlorobenzene	15.825	112	221689	4.989	ppbV		100
60) ethylbenzene	16.167	91	308447	4.858	ppbV		97
61) m+p-xylene	16.333	91	488831	9.709	ppbV		99
62) bromoform	16.392	173	95775	6.415	ppbV		100
63) styrene	16.642	104	212091	5.097	ppbV		99
64) 1,1,2,2-tetrachloroethane	16.725	83	196673M3	5.280	ppbV		
65) o-xylene	16.733	91	248794	4.897	ppbV		99
66) 1,2,3-Trichloropropane	16.842	75	147708	5.008	ppbV		99
68) isopropylbenzene	17.233	105	347648	5.041	ppbV		97
69) Bromobenzene	17.300	77	195312	5.268	ppbV		100

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\r1737679_Ev2.D
Sub List : Default - All compounds listed

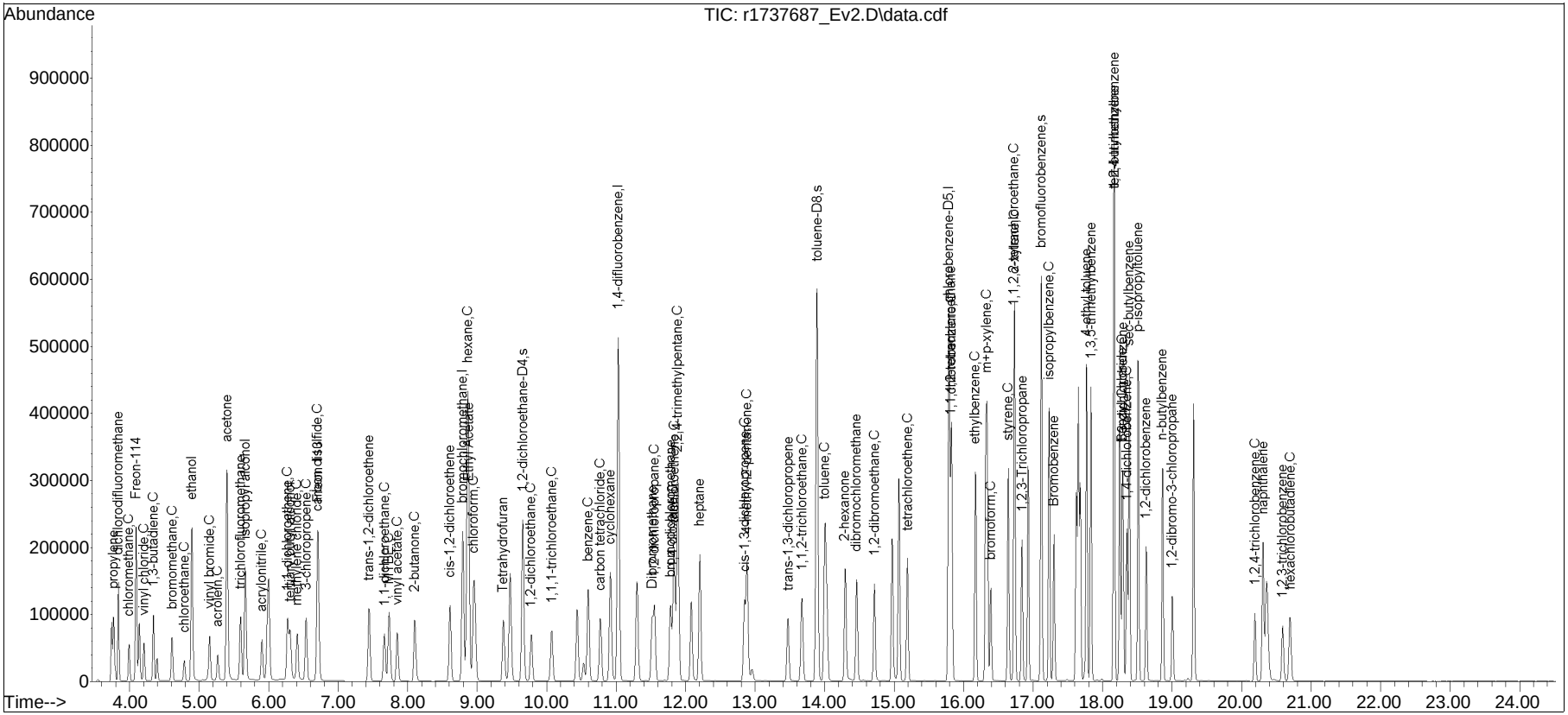
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
70) 4-ethyl toluene	17.767	105	374166	5.487	ppbV	99
71) 1,3,5-trimethylbenzene	17.833	105	301800	5.102	ppbV	97
72) tert-butylbenzene	18.167	119	302892	4.955	ppbV	98
73) 1,2,4-trimethylbenzene	18.167	105	302759	5.152	ppbV	97
74) Benzyl Chloride	18.283	91	178727	5.712	ppbV	99
75) 1,3-dichlorobenzene	18.292	146	183609M3	5.355	ppbV	
76) 1,4-dichlorobenzene	18.350	146	178133	5.394	ppbV	95
77) sec-butylbenzene	18.383	105	430604	4.951	ppbV	97
78) p-isopropyltoluene	18.508	119	339361	4.639	ppbV	98
79) 1,2-dichlorobenzene	18.625	146	168345	5.068	ppbV	96
80) n-butylbenzene	18.858	91	325020M3	5.153	ppbV	
81) 1,2-dibromo-3-chloropr...	19.000	75	73542	5.812	ppbV	96
82) 1,2,4-trichlorobenzene	20.192	180	109002M2	5.191	ppbV	
83) naphthalene	20.308	128	332367	5.206	ppbV	99
84) 1,2,3-trichlorobenzene	20.592	180	102744	5.522	ppbV	100
85) hexachlorobutadiene	20.700	225	104902	4.873	ppbV	99

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

Sub List : Default - All compounds listed4\01\0107SIM_I\r1737679_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\
Data File : r1737687_Ev2.D
Acq On : 8 Jan 2024 1:39 PM
Operator : AIRLAB17:RAY
Sample : CTO15-SIMSTD5.0
Misc : WG1872081
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Jan 08 15:37:03 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\01\0107SIM_I\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

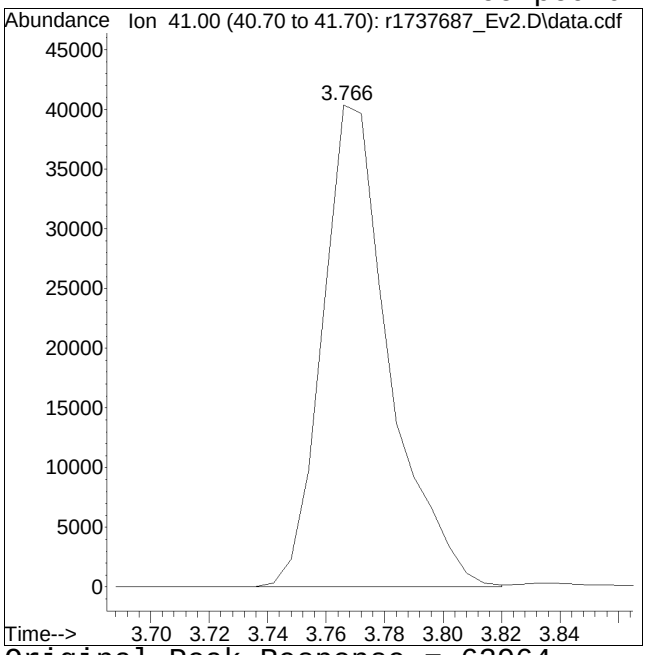


Manual Integration Report

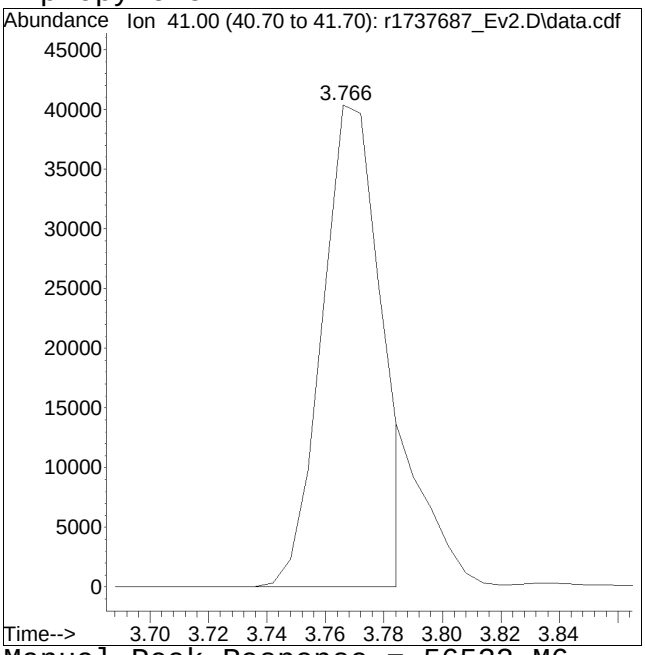
Data Path : O:\Forensics\Data\Airlab17Q
Data File : r1737687_Ev2.D
Date Inj'd : 1/8/2020 0:1: 9
Sample : CTO15-SIMSTD5.0

Method : TSIM17_240107.M
Operator : AIRLAB17:RAY
Instrument :
Quant Date : 1/8/2024 3:37 pm

Compound #2: propylene



Original Peak Response = 63964



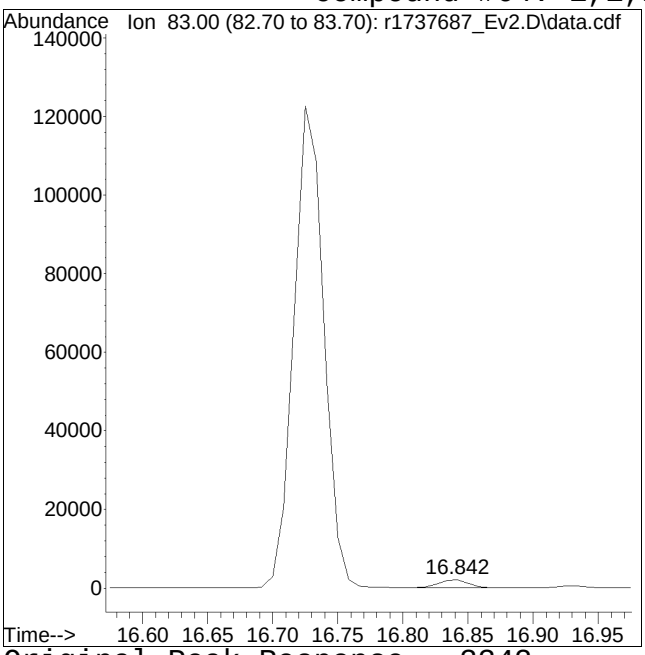
Manual Peak Response = 56532 M6

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

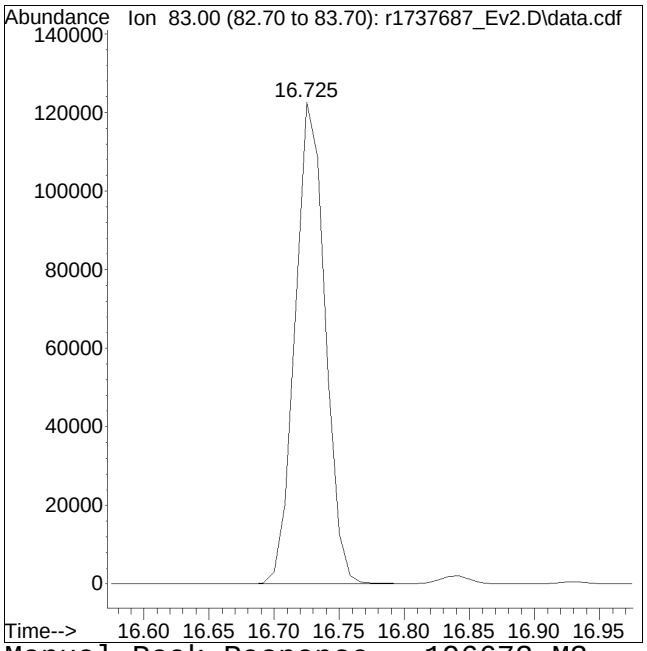
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #64: 1,1,2,2-tetrachloroethane



Original Peak Response = 3342



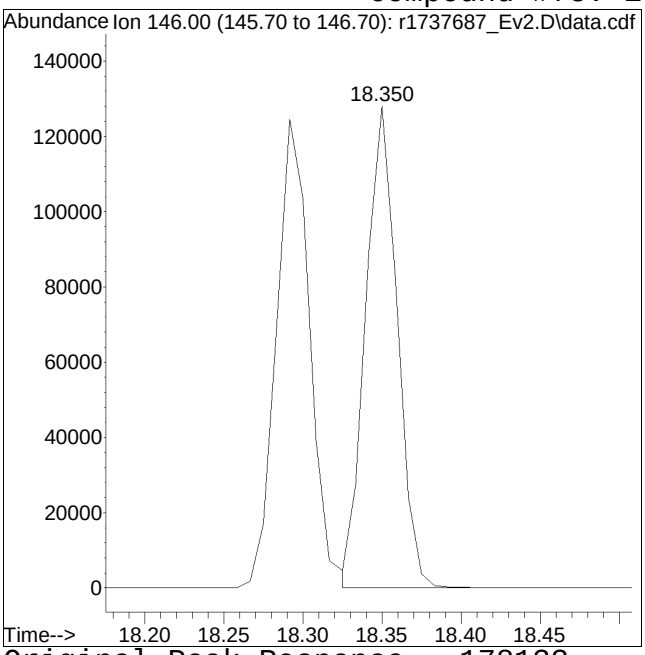
Manual Peak Response = 196673 M3

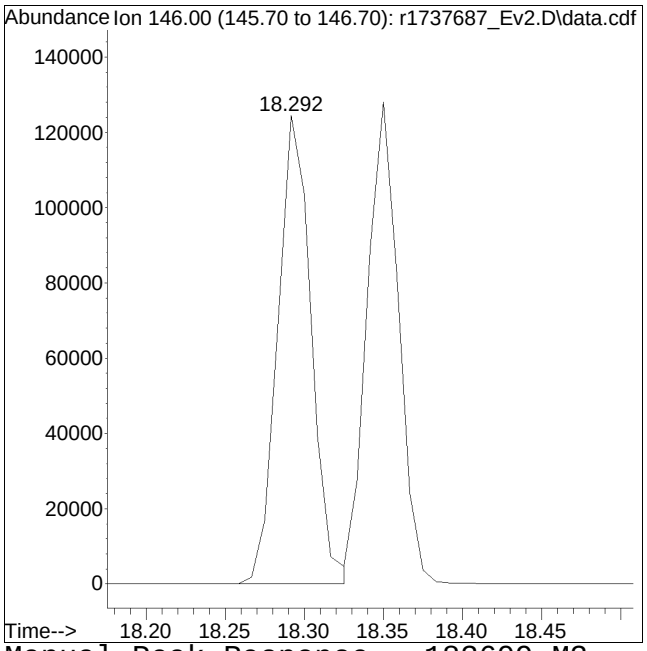
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #75: 1,3-dichlorobenzene



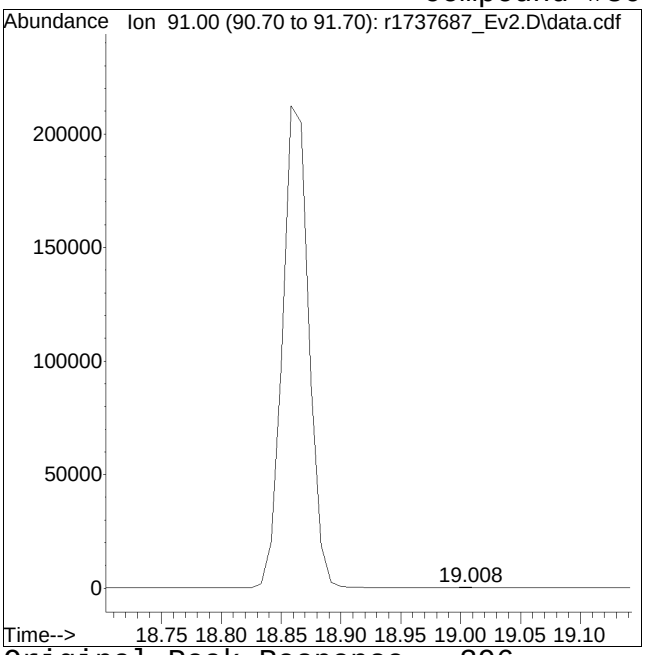


Original Peak Response = 178133 Manual Peak Response = 183609 M3
M3 = Misidentification of the peak (i.e. 1,4-dichlorobenzene identified as 1,3-dichlorobenzene), or misidentification from 2 partially resolved peaks not being split.

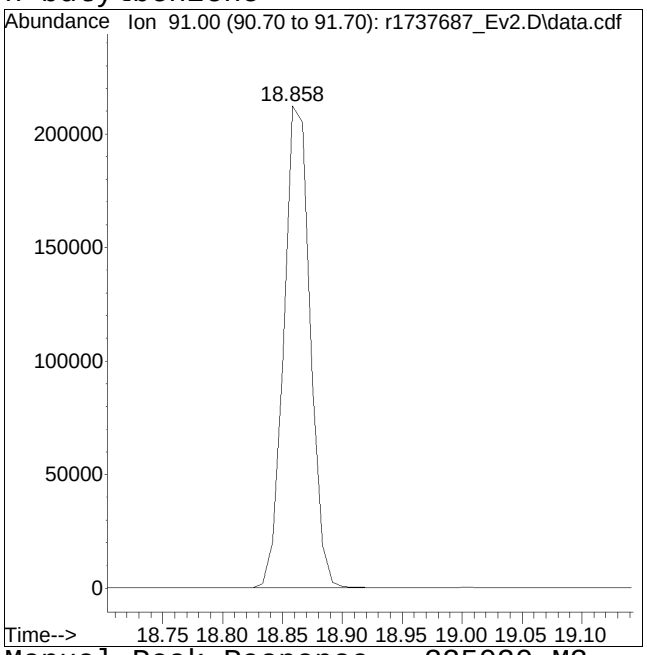
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #80: n-butylbenzene



Original Peak Response = 396



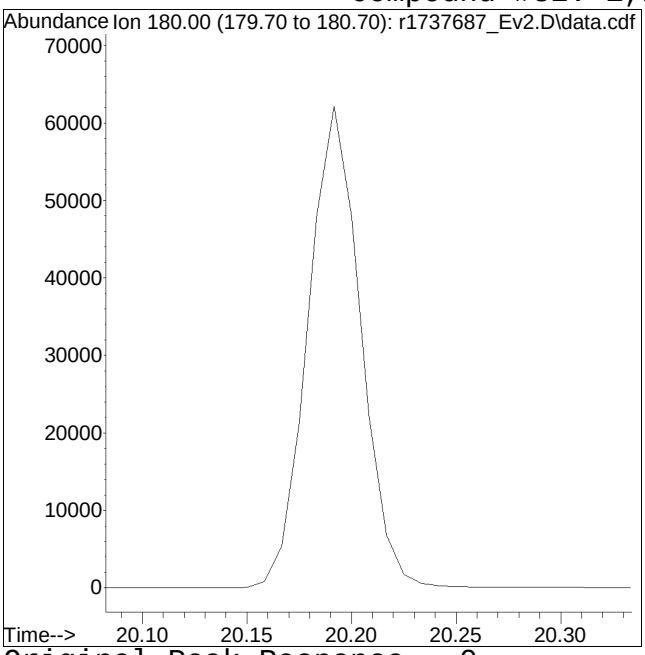
Manual Peak Response = 325020 M3

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

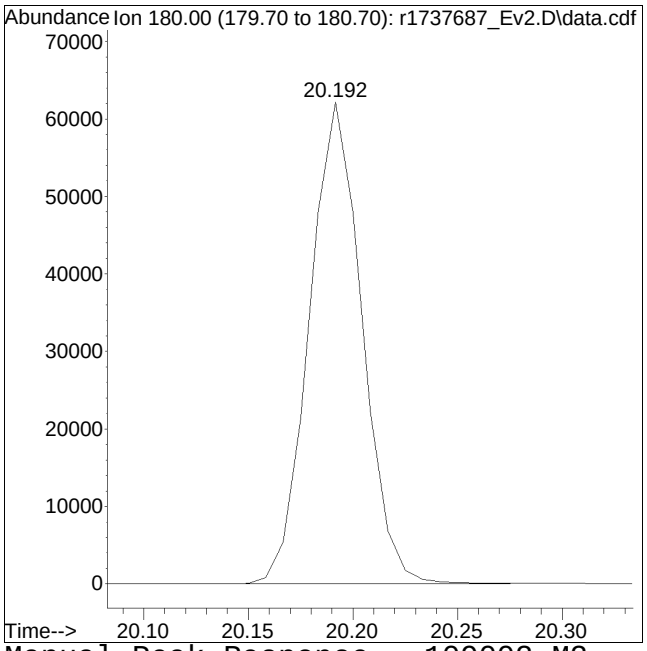
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1737687_Ev2.D Operator : AIRLAB17:RAY
Date Inj'd : 1/8/2020 0:1: 9 Instrument :
Sample : CTO15-SIMSTD5.0 Quant Date : 1/8/2024 3:37 pm

Compound #82: 1,2,4-trichlorobenzene



Original Peak Response = 0



Manual Peak Response = 109002 M2

M2 = Peak not found by automatic integration algorithm.

Continuing Calibration

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB17	**Calibration Date**	: 02/24/24 14:03		
Lab File ID	: R1738915_EV2	**Init. Calib. Date(s)**	: 01/07/24	01/08/24	
Sample No	: WG1888882-2	**Init. Calib. Times**	: 20:20	02:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	87	.03
propylene	0.483	0.372	-	23	30	71	.01
dichlorodifluoromethane	1.032	1.009	-	2.2	30	84	.02
chloromethane	0.517	0.403	-	22.1	30	67	.02
Freon-114	1.27	1.22	-	3.9	30	83	.02
vinyl chloride	0.546	0.514	-	5.9	30	82	.02
1,3-butadiene	0.447	0.4	-	10.5	30	77	.02
bromomethane	0.476	0.467	-	1.9	30	87	.02
chloroethane	0.25	0.245	-	2	30	87	.02
ethanol	0.421	0.407	-	3.3	30	81	.02
vinyl bromide	0.476	0.445	-	6.5	30	83	.02
acrolein	0.274	0.203	-	25.9	30	76	.02
acetone	0.649	0.549	-	15.4	30	80	.02
trichlorofluoromethane	0.879	0.943	-	-7.3	30	97	.03
isopropyl alcohol	0.837	0.589	-	29.6	30	62	.02
acrylonitrile	0.469	0.423	-	9.8	30	84	.02
1,1-dichloroethene	0.698	0.705	-	-1	30	88	.02
tertiary butyl alcohol	0.944	0.755	-	20	30	72	.02
methylene chloride	0.68	0.686	-	-0.9	30	92	.02
3-chloropropene	0.741	0.657	-	11.3	30	77	.02
carbon disulfide	1.791	1.496	-	16.5	30	73	.02
Freon 113	1.088	1.033	-	5.1	30	83	.02
trans-1,2-dichloroethene	0.716	0.672	-	6.1	30	81	.03
1,1-dichloroethane	0.909	0.869	-	4.4	30	82	.02
MTBE	1.323	1.098	-	17	30	70	.02
vinyl acetate	1.25	0.929	-	25.7	30	66	.03
2-butanone	1.242	1.036	-	16.6	30	73	.02
cis-1,2-dichloroethene	0.688	0.638	-	7.3	30	81	.03
Ethyl Acetate	0.176	0.167	-	5.1	30	83	.03
chloroform	1.001	1.015	-	-1.4	30	88	.03
Tetrahydrofuran	0.697	0.566	-	18.8	30	70	.03
1,2-dichloroethane	0.563	0.573	-	-1.8	30	92	.03
1,4-difluorobenzene	1	1	-	0	30	88	.03
hexane	0.305	0.29	-	4.9	30	86	.03
1,1,1-trichloroethane	0.281	0.304	-	-8.2	30	96	.03
benzene	0.747	0.608	-	18.6	30	75	.03
carbon tetrachloride	0.277	0.3	-	-8.3	30	96	.02
cyclohexane	0.332	0.306	-	7.8	30	84	.03
Dibromomethane	0.21	0.197	-	6.2	30	91	.03
1,2-dichloropropane	0.232	0.202	-	12.9	30	81	.03
bromodichloromethane	0.332	0.368	-	-10.8	30	97	.03
1,4-dioxane	0.141	0.123	-	12.8	30	78	.03
trichloroethene	0.291	0.282	-	3.1	30	84	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB17	**Calibration Date**	: 02/24/24 14:03		
Lab File ID	: R1738915_EV2	**Init. Calib. Date(s)**	: 01/07/24	01/08/24	
Sample No	: WG1888882-2	**Init. Calib. Times**	: 20:20	02:14	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.031	0.949	-	8	30	87	.03
heptane	0.437	0.371	-	15.1	30	75	.03
cis-1,3-dichloropropene	0.345	0.28	-	18.8	30	68	.03
4-methyl-2-pentanone	0.519	0.43	-	17.1	30	73	.02
trans-1,3-dichloropropene	0.267	0.218	-	18.4	30	68	.03
1,1,2-trichloroethane	0.251	0.237	-	5.6	30	82	.02
chlorobenzene-D5	1	1	-	0	30	98	.03
toluene	6.081	4.915	-	19.2	30	80	.03
2-hexanone	3.63	2.599	-	28.4	30	67	.02
dibromochloromethane	2.536	2.837	-	-11.9	30	104	.02
1,2-dibromoethane	3.064	2.622	-	14.4	30	80	.02
tetrachloroethene	2.349	1.978	-	15.8	30	83	.02
1,1,1,2-tetrachloroethane	2.1	1.974	-	6	30	92	.02
chlorobenzene	5.21	4.346	-	16.6	30	79	.03
ethylbenzene	7.444	6.194	-	16.8	30	79	.02
m+p-xylene	5.903	5.114	-	13.4	30	83	.02
bromoform	1.751	2.071	-	-18.3	30	107	.03
styrene	4.879	3.941	-	19.2	30	74	.02
1,1,2,2-tetrachloroethane	4.368	4.019	-	8	30	87	.02
o-xylene	5.957	5.216	-	12.4	30	84	.02
1,2,3-Trichloropropane	3.458	2.723	-	21.3	30	80	.02
isopropylbenzene	8.086	6.579	-	18.6	30	83	.03
Bromobenzene	4.347	3.64	-	16.3	30	83	.02
4-ethyl toluene	7.995	6.949	-	13.1	30	82	.02
1,3,5-trimethylbenzene	6.935	6.614	-	4.6	30	89	.03
tert-butylbenzene	7.167	6.003	-	16.2	30	85	.02
1,2,4-trimethylbenzene	6.891	5.837	-	15.3	30	78	.02
Benzyl Chloride	3.668	2.835	-	22.7	30	73	.02
1,3-dichlorobenzene	4.02	3.718	-	7.5	30	84	.02
1,4-dichlorobenzene	3.872	3.642	-	5.9	30	85	.02
sec-butylbenzene	10.196	8.013	-	21.4	30	80	.02
p-isopropyltoluene	8.577	6.541	-	23.7	30	78	.02
1,2-dichlorobenzene	3.895	3.461	-	11.1	30	84	.03
n-butylbenzene	7.396	6.012	-	18.7	30	83	.03
1,2-dibromo-3-chloropropan	1.484	1.288	-	13.2	30	82	.02
1,2,4-trichlorobenzene	2.462	1.706	-	30.7*	30	63	.02
naphthalene	7.485	5.017	-	33*	30	72	.03
1,2,3-trichlorobenzene	2.182	1.629	-	25.3	30	81	.03
hexachlorobutadiene	2.524	2.193	-	13.1	30	83	.03

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB19	**Calibration Date**	: 02/25/24 14:46		
Lab File ID	: R1927989_EV2	**Init. Calib. Date(s)**	: 02/21/24	02/22/24	
Sample No	: WG1889046-2	**Init. Calib. Times**	: 20:28	03:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	116	.02
propylene	0.699	0.122	-	82.5*	30	21	.01
dichlorodifluoromethane	1.113	1.079	-	3.1	30	114	.01
chloromethane	0.483	0.391	-	19	30	99	.02
Freon-114	1.202	1.117	-	7.1	30	110	.02
vinyl chloride	0.685	0.665	-	2.9	30	115	.01
1,3-butadiene	0.492	0.466	-	5.3	30	116	.01
bromomethane	0.467	0.457	-	2.1	30	117	.02
chloroethane	0.378	0.433	-	-14.6	30	138	.02
ethanol	0.572	0.481	-	15.9	30	106	.02
vinyl bromide	0.728	0.514	-	29.4	30	86	.02
acrolein	0.405	0.335	-	17.3	30	103	.02
acetone	1.091	0.916	-	16	30	104	.02
trichlorofluoromethane	1.404	1.22	-	13.1	30	103	.02
isopropyl alcohol	1.108	1.033	-	6.8	30	111	.02
acrylonitrile	0.653	0.598	-	8.4	30	111	.02
1,1-dichloroethene	1.311	1.16	-	11.5	30	104	.02
tertiary butyl alcohol	1.532	1.57	-	-2.5	30	120	.02
methylene chloride	0.774	0.757	-	2.2	30	115	.02
3-chloropropene	1.239	1.016	-	18	30	100	.02
carbon disulfide	2.387	1.671	-	30	30	89	.02
Freon 113	1.48	1.192	-	19.5	30	97	.02
trans-1,2-dichloroethene	1.357	1.091	-	19.6	30	96	.02
1,1-dichloroethane	1.713	1.363	-	20.4	30	95	.02
MTBE	2.166	1.658	-	23.5	30	93	.02
vinyl acetate	1.519	1.22	-	19.7	30	98	.02
2-butanone	1.82	1.481	-	18.6	30	101	.02
cis-1,2-dichloroethene	1.26	1.059	-	16	30	100	.03
Ethyl Acetate	0.327	0.277	-	15.3	30	100	.02
chloroform	1.226	1.093	-	10.8	30	108	.02
Tetrahydrofuran	1.116	0.852	-	23.7	30	93	.02
1,2-dichloroethane	1.053	0.891	-	15.4	30	102	.02
1,4-difluorobenzene	1	1	-	0	30	97	.01
hexane	0.461	0.507	-	-10	30	107	.02
1,1,1-trichloroethane	0.347	0.392	-	-13	30	106	.02
benzene	0.76	0.728	-	4.2	30	94	.02
carbon tetrachloride	0.283	0.314	-	-11	30	105	.01
cyclohexane	0.472	0.525	-	-11.2	30	109	.01
Dibromomethane	0.23	0.231	-	-0.4	30	102	.01
1,2-dichloropropane	0.352	0.325	-	7.7	30	91	.01
bromodichloromethane	0.36	0.413	-	-14.7	30	111	0
1,4-dioxane	0.175	0.191	-	-9.1	30	113	.01
trichloroethene	0.284	0.296	-	-4.2	30	101	.01

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRLAB19	**Calibration Date**	: 02/25/24 14:46		
Lab File ID	: R1927989_EV2	**Init. Calib. Date(s)**	: 02/21/24	02/22/24	
Sample No	: WG1889046-2	**Init. Calib. Times**	: 20:28	03:04	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.466	1.597	-	-8.9	30	108	.01
heptane	0.527	0.526	-	0.2	30	100	0
cis-1,3-dichloropropene	0.389	0.392	-	-0.8	30	96	0
4-methyl-2-pentanone	0.6	0.615	-	-2.5	30	99	.02
trans-1,3-dichloropropene	0.292	0.321	-	-9.9	30	99	0
1,1,2-trichloroethane	0.298	0.302	-	-1.3	30	97	0
chlorobenzene-D5	1	1	-	0	30	117	0
toluene	6.271	5.296	-	15.5	30	104	0
2-hexanone	3.939	3.129	-	20.6	30	95	0
dibromochloromethane	2.235	2.123	-	5	30	113	0
1,2-dibromoethane	3.034	2.3	-	24.2	30	90	0
tetrachloroethene	2.45	1.823	-	25.6	30	94	0
1,1,1,2-tetrachloroethane	1.687	1.518	-	10	30	104	0
chlorobenzene	5.207	3.801	-	27	30	91	0
ethylbenzene	7.81	6.671	-	14.6	30	102	0
m+p-xylene	6.292	5.536	-	12	30	103	0
bromoform	1.852	1.781	-	3.8	30	106	0
styrene	5.502	4.253	-	22.7	30	88	0
1,1,2,2-tetrachloroethane	4.049	3.549	-	12.3	30	105	0
o-xylene	6.389	5.627	-	11.9	30	105	0
1,2,3-Trichloropropane	3.45	2.49	-	27.8	30	90	0
isopropylbenzene	9.074	6.57	-	27.6	30	89	0
Bromobenzene	4.186	3.368	-	19.5	30	94	0
4-ethyl toluene	9.141	6.85	-	25.1	30	88	0
1,3,5-trimethylbenzene	9.291	7.164	-	22.9	30	92	0
tert-butylbenzene	7.717	5.927	-	23.2	30	93	0
1,2,4-trimethylbenzene	8.147	6.269	-	23.1	30	90	0
Benzyl Chloride	3.645	4.043	-	-10.9	30	111	0
1,3-dichlorobenzene	3.848	3.273	-	14.9	30	91	0
1,4-dichlorobenzene	3.629	3.273	-	9.8	30	91	0
sec-butylbenzene	11.553	8.172	-	29.3	30	86	0
p-isopropyltoluene	9.102	6.545	-	28.1	30	86	0
1,2-dichlorobenzene	3.924	3.128	-	20.3	30	90	0
n-butylbenzene	7.811	6.716	-	14	30	101	0
1,2-dibromo-3-chloropropan	1.528	1.477	-	3.3	30	92	0
1,2,4-trichlorobenzene	2.722	2.652	-	2.6	30	88	0
naphthalene	7.207	6.532	-	9.4	30	89	0
1,2,3-trichlorobenzene	2.615	2.25	-	14	30	88	0
hexachlorobutadiene	3.003	2.643	-	12	30	97	0

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRPIANO3	**Calibration Date**	: 02/25/24 15:17		
Lab File ID	: R329315_EV2	**Init. Calib. Date(s)**	: 12/30/23	12/30/23	
Sample No	: WG1889055-2	**Init. Calib. Times**	: 13:58	19:57	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
bromochloromethane	1	1	-	0	30	102	-.04
propylene	0.683	0.663	-	2.9	30	98	-.02
dichlorodifluoromethane	1.207	1.161	-	3.8	30	92	-.02
chloromethane	0.603	0.596	-	1.2	30	98	-.02
Freon-114	1.501	1.626	-	-8.3	30	105	-.02
vinyl chloride	0.835	0.888	-	-6.3	30	104	-.02
1,3-butadiene	0.576	0.656	-	-13.9	30	113	-.03
bromomethane	0.618	0.649	-	-5	30	106	-.02
chloroethane	0.433	0.432	-	0.2	30	100	-.02
ethanol	0.46	0.469	-	-2	30	102	-.02
vinyl bromide	0.654	0.615	-	6	30	92	-.03
acrolein	0.38	0.33	-	13.2	30	88	-.03
acetone	1.057	0.824	-	22	30	80	-.03
trichlorofluoromethane	1.277	1.159	-	9.2	30	90	-.03
isopropyl alcohol	1.273	0.975	-	23.4	30	78	-.03
acrylonitrile	0.631	0.576	-	8.7	30	94	-.03
1,1-dichloroethene	1.233	1.086	-	11.9	30	87	-.04
tertiary butyl alcohol	1.633	1.478	-	9.5	30	93	-.03
methylene chloride	0.799	0.75	-	6.1	30	94	-.04
3-chloropropene	1.153	0.97	-	15.9	30	85	-.04
carbon disulfide	2.192	1.751	-	20.1	30	80	-.04
Freon 113	1.426	1.098	-	23	30	79	-.04
trans-1,2-dichloroethene	1.241	1.032	-	16.8	30	82	-.04
1,1-dichloroethane	1.597	1.26	-	21.1	30	79	-.03
MTBE	2.011	1.715	-	14.7	30	85	-.04
vinyl acetate	1.637	1.215	-	25.8	30	77	-.04
2-butanone	1.666	1.386	-	16.8	30	81	-.03
cis-1,2-dichloroethene	1.178	0.99	-	16	30	83	-.04
Ethyl Acetate	0.304	0.265	-	12.8	30	85	-.03
chloroform	1.282	1.211	-	5.5	30	95	-.04
Tetrahydrofuran	1.046	0.842	-	19.5	30	81	-.03
1,2-dichloroethane	0.96	0.869	-	9.5	30	91	-.04
1,4-difluorobenzene	1	1	-	0	30	88	-.04
hexane	0.477	0.5	-	-4.8	30	89	-.04
1,1,1-trichloroethane	0.366	0.385	-	-5.2	30	89	-.04
benzene	0.871	0.766	-	12.1	30	78	-.04
carbon tetrachloride	0.294	0.343	-	-16.7	30	96	-.04
cyclohexane	0.5	0.525	-	-5	30	90	-.04
Dibromomethane	0.237	0.238	-	-0.4	30	89	-.04
1,2-dichloropropane	0.349	0.32	-	8.3	30	78	-.04
bromodichloromethane	0.369	0.469	-	-27.1	30	104	-.04
1,4-dioxane	0.188	0.204	-	-8.5	30	90	-.04
trichloroethene	0.335	0.342	-	-2.1	30	85	-.04

* Value outside of QC limits.

Calibration Verification Summary
Form 7
Air Volatiles

Client	: Roux Env. Eng. & Geology, DPC	**Lab Number**	: L2409224		
Project Name	: 11-20 46TH ROAD	**Project Number**	: 3371.0001Y000		
Instrument ID	: AIRPIANO3	**Calibration Date**	: 02/25/24 15:17		
Lab File ID	: R329315_EV2	**Init. Calib. Date(s)**	: 12/30/23	12/30/23	
Sample No	: WG1889055-2	**Init. Calib. Times**	: 13:58	19:57	
Channel	:				

Compound	Ave. RRF	RRF	Min RRF	%D	Max %D	Area%	Dev(min)
2,2,4-trimethylpentane	1.611	1.67	-	-3.7	30	95	-.04
heptane	0.551	0.553	-	-0.4	30	87	-.04
cis-1,3-dichloropropene	0.387	0.408	-	-5.4	30	82	-.04
4-methyl-2-pentanone	0.624	0.653	-	-4.6	30	89	-.04
trans-1,3-dichloropropene	0.285	0.332	-	-16.5	30	84	-.03
1,1,2-trichloroethane	0.313	0.296	-	5.4	30	78	-.04
chlorobenzene-D5	1	1	-	0	30	110	-.03
toluene	6.898	5.269	-	23.6	30	82	-.03
2-hexanone	3.779	3.264	-	13.6	30	88	-.03
dibromochloromethane	2.182	2.453	-	-12.4	30	110	-.03
1,2-dibromoethane	2.853	2.281	-	20	30	81	-.03
tetrachloroethene	2.803	2.183	-	22.1	30	85	-.03
1,1,1,2-tetrachloroethane	2.052	1.802	-	12.2	30	96	-.03
chlorobenzene	5.059	3.998	-	21	30	84	-.03
ethylbenzene	8.347	6.675	-	20	30	84	-.03
m+p-xylene	6.67	5.693	-	14.6	30	88	-.03
bromoform	1.875	2.208	-	-17.8	30	109	-.03
styrene	5.108	4.282	-	16.2	30	81	-.03
1,1,2,2-tetrachloroethane	4.482	4.24	-	5.4	30	97	-.03
o-xylene	6.772	6.03	-	11	30	92	-.03
1,2,3-Trichloropropane	3.516	3.016	-	14.2	30	94	-.03
isopropylbenzene	8.601	7.203	-	16.3	30	93	-.03
Bromobenzene	4.779	4.116	-	13.9	30	97	-.02
4-ethyl toluene	8.308	7.796	-	6.2	30	90	-.03
1,3,5-trimethylbenzene	7.642	6.942	-	9.2	30	91	-.03
tert-butylbenzene	7.755	7.18	-	7.4	30	100	-.02
1,2,4-trimethylbenzene	7.417	6.996	-	5.7	30	91	-.02
Benzyl Chloride	4.2	4.629	-	-10.2	30	104	-.02
1,3-dichlorobenzene	4.608	4.728	-	-2.6	30	94	-.03
1,4-dichlorobenzene	4.532	4.752	-	-4.9	30	94	-.02
sec-butylbenzene	11.064	9.521	-	13.9	30	92	-.03
p-isopropyltoluene	9.281	8.146	-	12.2	30	94	-.02
1,2-dichlorobenzene	4.681	4.443	-	5.1	30	93	0
n-butylbenzene	8.63	8.217	-	4.8	30	103	0
1,2-dibromo-3-chloropropan	1.699	1.774	-	-4.4	30	103	0
1,2,4-trichlorobenzene	3.799	3.928	-	-3.4	30	94	.03
naphthalene	9.035	9.716	-	-7.5	30	114	.03
1,2,3-trichlorobenzene	3.485	3.6	-	-3.3	30	111	.03
hexachlorobutadiene	4.015	3.561	-	11.3	30	87	.03

* Value outside of QC limits.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	87	0.03
2		propylene	0.483	0.372	23.0	71	0.01
3		dichlorodifluoromethane	1.032	1.009	2.2	84	0.02
4	C	chloromethane	0.517	0.403	22.1	67	0.02
5		Freon-114	1.270	1.220	3.9	83	0.02
6	C	vinyl chloride	0.546	0.514	5.9	82	0.02
7	C	1,3-butadiene	0.447	0.400	10.5	77	0.02
8	C	bromomethane	0.476	0.467	1.9	87	0.02
9	C	chloroethane	0.250	0.245	2.0	87	0.02
10		ethanol	0.421	0.407	3.3	81	0.02
11	C	vinyl bromide	0.476	0.445	6.5	83	0.02
12	C	acrolein	0.274	0.203	25.9	76	0.02
13		acetone	0.649	0.549	15.4	80	0.02
14		trichlorofluoromethane	0.879	0.943	-7.3	97	0.03
15		isopropyl alcohol	0.837	0.589	29.6	62	0.02
16	C	acrylonitrile	0.469	0.423	9.8	84	0.02
17	C	1,1-dichloroethene	0.698	0.705	-1.0	88	0.02
18		tertiary butyl alcohol	0.944	0.755	20.0	72	0.02
19	C	methylene chloride	0.680	0.686	-0.9	92	0.02
20	C	3-chloropropene	0.741	0.657	11.3	77	0.02
21	C	carbon disulfide	1.791	1.496	16.5	73	0.02
22		Freon 113	1.088	1.033	5.1	83	0.02
23		trans-1,2-dichloroethene	0.716	0.672	6.1	81	0.03
24	C	1,1-dichloroethane	0.909	0.869	4.4	82	0.02
25	C	MTBE	1.323	1.098	17.0	70	0.02
26	C	vinyl acetate	1.250	0.929	25.7	66	0.03
27	C	2-butanone	1.242	1.036	16.6	73	0.02
28		cis-1,2-dichloroethene	0.688	0.638	7.3	81	0.03
29		Ethyl Acetate	0.176	0.167	5.1	83	0.03
30	C	chloroform	1.001	1.015	-1.4	88	0.03
31		Tetrahydrofuran	0.697	0.566	18.8	70	0.03
32	C	1,2-dichloroethane	0.563	0.573	-1.8	92	0.03
33	I	1,4-difluorobenzene	1.000	1.000	0.0	88	0.03
34	C	hexane	0.305	0.290	4.9	86	0.03
36	C	1,1,1-trichloroethane	0.281	0.304	-8.2	96	0.03
37	C	benzene	0.747	0.608	18.6	75	0.03
38	C	carbon tetrachloride	0.277	0.300	-8.3	96	0.02
39		cyclohexane	0.332	0.306	7.8	84	0.03

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Dibromomethane	0.210	0.197	6.2	91	0.03
41	C	1,2-dichloropropane	0.232	0.202	12.9	81	0.03
42		bromodichloromethane	0.332	0.368	-10.8	97	0.03
43	C	1,4-dioxane	0.141	0.123	12.8	78	0.03
44	C	trichloroethene	0.291	0.282	3.1	84	0.03
45	C	2,2,4-trimethylpentane	1.031	0.949	8.0	87	0.03
46		heptane	0.437	0.371	15.1	75	0.03
47	C	cis-1,3-dichloropropene	0.345	0.280	18.8	68	0.03
48	C	4-methyl-2-pentanone	0.519	0.430	17.1	73	0.02
49		trans-1,3-dichloropropene	0.267	0.218	18.4	68	0.03
50	C	1,1,2-trichloroethane	0.251	0.237	5.6	82	0.02
51	I	chlorobenzene-D5	1.000	1.000	0.0	98	0.03
52	C	toluene	6.081	4.915	19.2	80	0.03
54		2-hexanone	3.630	2.599	28.4	67	0.02
55		dibromochloromethane	2.536	2.837	-11.9	104	0.02
56	C	1,2-dibromoethane	3.064	2.622	14.4	80	0.02
57	C	tetrachloroethene	2.349	1.978	15.8	83	0.02
58		1,1,1,2-tetrachloroethane	2.100	1.974	6.0	92	0.02
59	C	chlorobenzene	5.210	4.346	16.6	79	0.03
60	C	ethylbenzene	7.444	6.194	16.8	79	0.02
61	C	m+p-xylene	5.903	5.114	13.4	83	0.02
62	C	bromoform	1.751	2.071	-18.3	107	0.03
63	C	styrene	4.879	3.941	19.2	74	0.02
64	C	1,1,2,2-tetrachloroethane	4.368	4.019	8.0	87	0.02
65	C	o-xylene	5.957	5.216	12.4	84	0.02
66		1,2,3-Trichloropropane	3.458	2.723	21.3	80	0.02
68	C	isopropylbenzene	8.086	6.579	18.6	83	0.03
69		Bromobenzene	4.347	3.640	16.3	83	0.02
70		4-ethyl toluene	7.995	6.949	13.1	82	0.02
71		1,3,5-trimethylbenzene	6.935	6.614	4.6	89	0.03
72		tert-butylbenzene	7.167	6.003	16.2	85	0.02
73		1,2,4-trimethylbenzene	6.891	5.837	15.3	78	0.02
74	C	Benzyl Chloride	3.668	2.835	22.7	73	0.02
75		1,3-dichlorobenzene	4.020	3.718	7.5	84	0.02
76	C	1,4-dichlorobenzene	3.872	3.642	5.9	85	0.02
77		sec-butylbenzene	10.196	8.013	21.4	80	0.02
78		p-isopropyltoluene	8.577	6.541	23.7	78	0.02
79		1,2-dichlorobenzene	3.895	3.461	11.1	84	0.03

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	7.396	6.012	18.7	83	0.03
81	1,2-dibromo-3-chloropropane	1.484	1.288	13.2	82	0.02
82 C	1,2,4-trichlorobenzene	2.462	1.706	30.7#	63	0.02
83	naphthalene	7.485	5.017	33.0#	72	0.03
84	1,2,3-trichlorobenzene	2.182	1.629	25.3	81	0.03
85 C	hexachlorobutadiene	2.524	2.193	13.1	83	0.03

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.858	49	222593	10.000	ppbV	0.03
33) 1,4-difluorobenzene	11.097	114	650953	10.000	ppbV	0.03
51) chlorobenzene-D5	15.850	54	90010	10.000	ppbV	0.03
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	3.808	41	41402m	3.855	ppbV	
3) dichlorodifluoromethane	3.880	85	112290	4.889	ppbV	98
4) chloromethane	4.036	50	44899	3.901	ppbV	99
5) Freon-114	4.138	85	135728	4.802	ppbV	96
6) vinyl chloride	4.252	62	57208	4.710	ppbV	100
7) 1,3-butadiene	4.390	54	44483	4.469	ppbV	83
8) bromomethane	4.660	94	51985	4.911	ppbV	99
9) chloroethane	4.840	64	27273	4.901	ppbV	93
10) ethanol	4.948	31	226423	24.174	ppbV	90
11) vinyl bromide	5.207	106	49537	4.675	ppbV	96
12) acrolein	5.327	56	22540	3.701	ppbV	98
13) acetone	5.457	43	305542	21.153	ppbV	98
14) trichlorofluoromethane	5.657	101	105000	5.369	ppbV	99
15) isopropyl alcohol	5.723	45	164011	8.803	ppbV	99
16) acrylonitrile	5.963	53	47030	4.505	ppbV	95
17) 1,1-dichloroethene	6.336	61	78450	5.047	ppbV	97
18) tertiary butyl alcohol	6.366	59	84039	4.001	ppbV #	78
19) methylene chloride	6.474	49	76399	5.045	ppbV	99
20) 3-chloropropene	6.600	41	73079	4.432	ppbV	95
21) carbon disulfide	6.768	76	166457	4.175	ppbV	99
22) Freon 113	6.774	101	115010	4.748	ppbV	97
23) trans-1,2-dichloroethene	7.508	61	74843	4.695	ppbV	97
24) 1,1-dichloroethane	7.725	63	96728	4.783	ppbV	99
25) MTBE	7.792	73	122247	4.153	ppbV	96
26) vinyl acetate	7.917	43	103408	3.716	ppbV	97
27) 2-butanone	8.167	43	115278	4.169	ppbV	98
28) cis-1,2-dichloroethene	8.675	61	71002	4.639	ppbV	97
29) Ethyl Acetate	8.942	61	18560	4.741	ppbV	80
30) chloroform	9.017	83	112966	5.068	ppbV	98
31) Tetrahydrofuran	9.442	42	62991	4.063	ppbV	99
32) 1,2-dichloroethane	9.842	62	63801	5.091	ppbV	95
34) hexane	8.933	57	94256	4.755	ppbV	85

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
36) 1,1,1-trichloroethane	10.142	97	98828	5.399	ppbV		99
37) benzene	10.663	78	198002	4.074	ppbV		98
38) carbon tetrachloride	10.837	117	97636	5.405	ppbV		97
39) cyclohexane	10.983	56	99605	4.613	ppbV		96
40) Dibromomethane	11.583	93	64188	4.690	ppbV	#	96
41) 1,2-dichloropropane	11.617	63	65672	4.356	ppbV		98
42) bromodichloromethane	11.843	83	119777	5.541	ppbV		99
43) 1,4-dioxane	11.883	88	39876	4.346	ppbV		97
44) trichloroethene	11.897	130	91886	4.843	ppbV		96
45) 2,2,4-trimethylpentane	11.950	57	308726	4.599	ppbV		98
46) heptane	12.270	43	120766	4.241	ppbV		91
47) cis-1,3-dichloropropene	12.908	75	91070	4.051	ppbV		95
48) 4-methyl-2-pentanone	12.950	43	139904	4.140	ppbV		94
49) trans-1,3-dichloropropene	13.533	75	70987	4.088	ppbV		96
50) 1,1,2-trichloroethane	13.733	97	77072	4.723	ppbV		97
52) toluene	14.067	91	221199	4.041	ppbV		99
54) 2-hexanone	14.350	43	116973	3.580	ppbV		94
55) dibromochloromethane	14.517	129	127688	5.593	ppbV		99
56) 1,2-dibromoethane	14.767	107	118016	4.279	ppbV		99
57) tetrachloroethene	15.242	166	89034	4.212	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.875	131	88822	4.698	ppbV		97
59) chlorobenzene	15.892	112	195592	4.171	ppbV		96
60) ethylbenzene	16.242	91	278762	4.161	ppbV		97
61) m+p-xylene	16.408	91	460268	8.662	ppbV		97
62) bromoform	16.475	173	93208	5.915	ppbV		99
63) styrene	16.733	104	177383	4.039	ppbV		97
64) 1,1,2,2-tetrachloroethane	16.825	83	180855	4.600	ppbV		100
65) o-xylene	16.833	91	234748	4.378	ppbV		100
66) 1,2,3-Trichloropropane	16.942	75	122557	3.938	ppbV		96
68) isopropylbenzene	17.350	105	296072	4.068	ppbV		96
69) Bromobenzene	17.417	77	163832	4.187	ppbV		94
70) 4-ethyl toluene	17.908	105	312718	4.345	ppbV		99
71) 1,3,5-trimethylbenzene	17.975	105	297666	4.768	ppbV		96
72) tert-butylbenzene	18.317	119	270164	4.188	ppbV		98
73) 1,2,4-trimethylbenzene	18.317	105	262702	4.236	ppbV		93
74) Benzyl Chloride	18.433	91	127609	3.865	ppbV		96
75) 1,3-dichlorobenzene	18.450	146	167325	4.625	ppbV		99
76) 1,4-dichlorobenzene	18.508	146	163890m	4.703	ppbV		
77) sec-butylbenzene	18.542	105	360624	3.929	ppbV		100
78) p-isopropyltoluene	18.675	119	294390	3.813	ppbV		99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

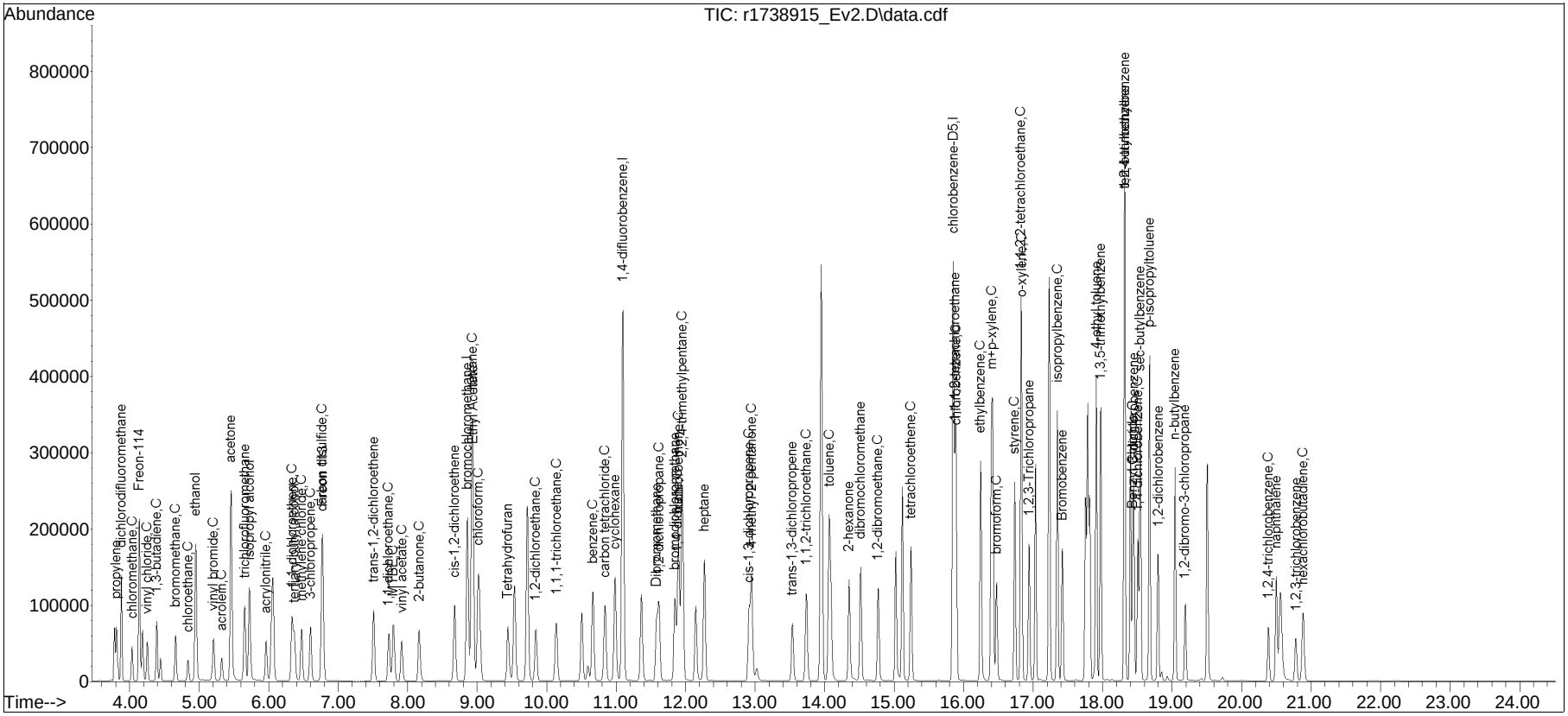
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
79) 1,2-dichlorobenzene	18.800	146	155750	4.443	ppbV	91
80) n-butylbenzene	19.042	91	270548	4.064	ppbV	96
81) 1,2-dibromo-3-chloropr...	19.183	75	57978	4.342	ppbV	95
82) 1,2,4-trichlorobenzene	20.383	180	76782	3.465	ppbV	96
83) naphthalene	20.500	128	225795	3.352	ppbV	100
84) 1,2,3-trichlorobenzene	20.783	180	73323	3.734	ppbV	98
85) hexachlorobutadiene	20.883	225	98685	4.344	ppbV	97

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

Sub List : Default-LCS-AP2 - All compounds listed4SIM\r1738915_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-2,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

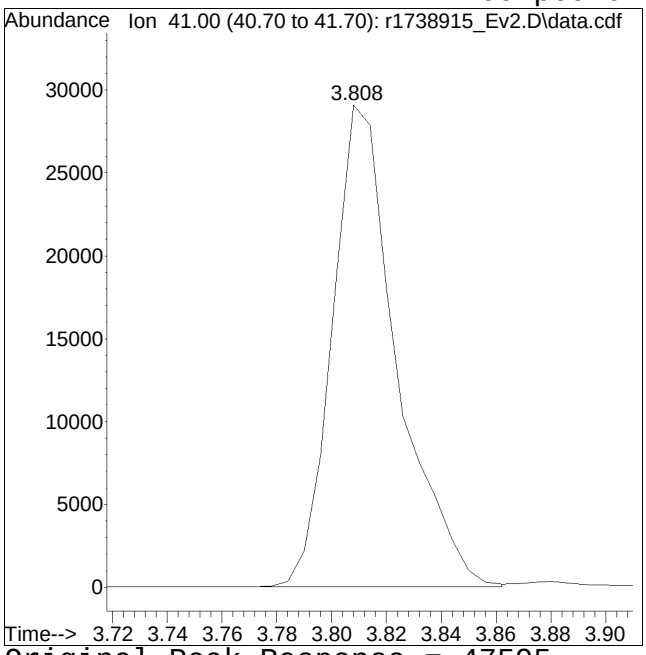
Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration



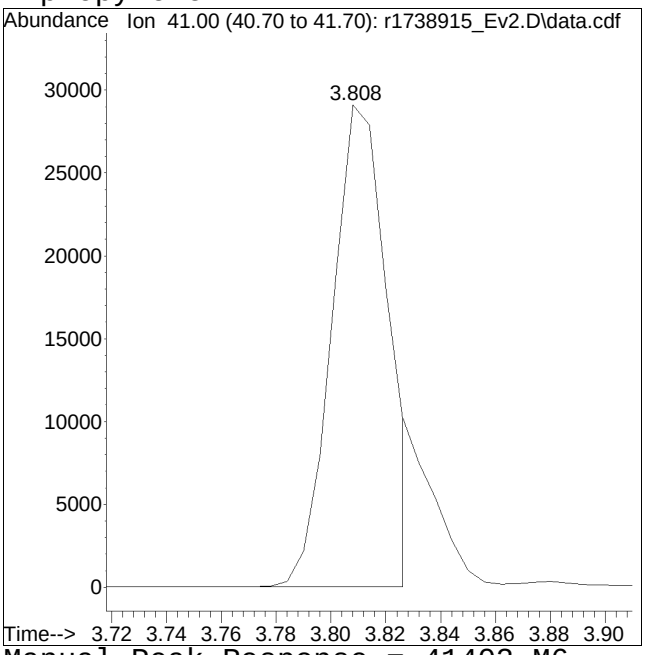
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738915_Ev2.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2024 2:03 PM Instrument :
Sample : WG1888882-2,3,250,250 Quant Date : 2/24/2024 2:09 pm

Compound #2: propylene



Original Peak Response = 47595



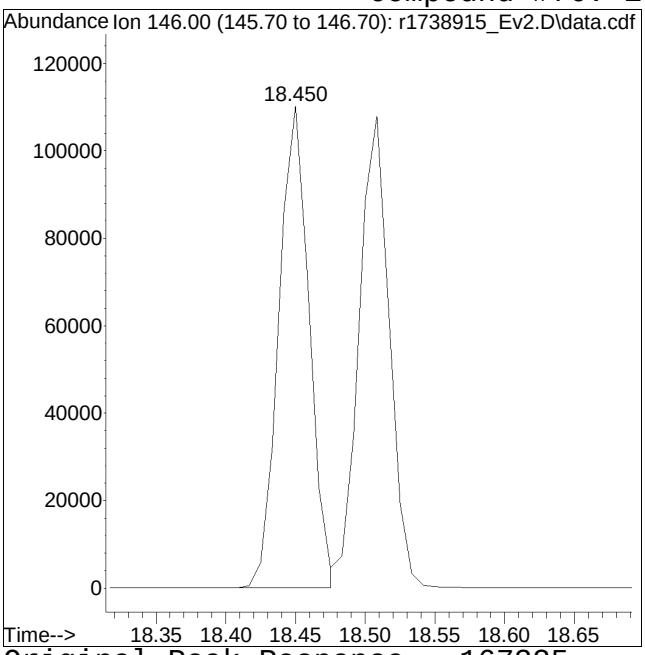
Manual Peak Response = 41402 M6

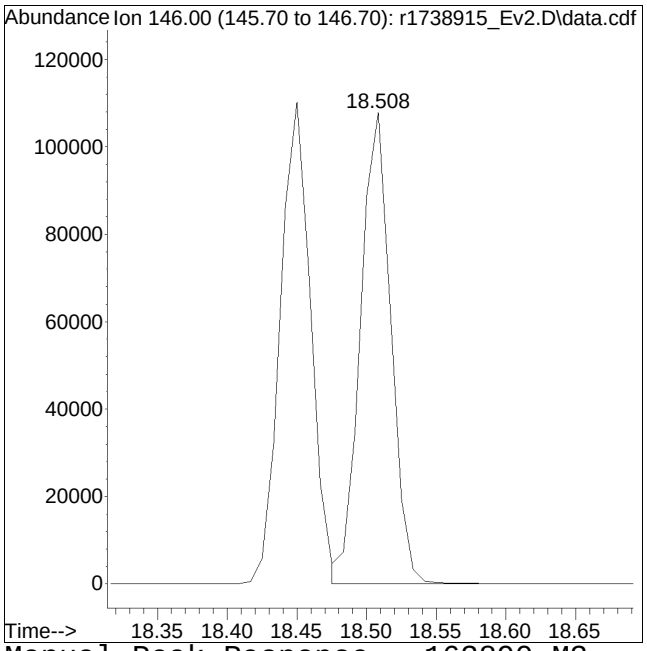
M6 = Misassignment of peak valley by automated integration (poor split of 2 peaks).

Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738915_Ev2.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2024 2:03 PM Instrument :
Sample : WG1888882-2,3,250,250 Quant Date : 2/24/2024 2:09 pm

Compound #76: 1,4-dichlorobenzene





Original Peak Response = 167325 Manual Peak Response = 163890 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.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	116	0.02
2		propylene	0.699	0.122	82.5#	21#	0.01
3		dichlorodifluoromethane	1.113	1.079	3.1	114	0.01
4	C	chloromethane	0.483	0.391	19.0	99	0.02
5		Freon-114	1.202	1.117	7.1	110	0.02
6	C	vinyl chloride	0.685	0.665	2.9	115	0.01
7	C	1,3-butadiene	0.492	0.466	5.3	116	0.01
8	C	bromomethane	0.467	0.457	2.1	117	0.02
9	C	chloroethane	0.378	0.433	-14.6	138	0.02
10		ethanol	0.572	0.481	15.9	106	0.02
11	C	vinyl bromide	0.728	0.514	29.4	86	0.02
12	C	acrolein	0.405	0.335	17.3	103	0.02
13		acetone	1.091	0.916	16.0	104	0.02
14		trichlorofluoromethane	1.404	1.220	13.1	103	0.02
15		isopropyl alcohol	1.108	1.033	6.8	111	0.02
16	C	acrylonitrile	0.653	0.598	8.4	111	0.02
17	C	1,1-dichloroethene	1.311	1.160	11.5	104	0.02
18		tertiary butyl alcohol	1.532	1.570	-2.5	120	0.02
19	C	methylene chloride	0.774	0.757	2.2	115	0.02
20	C	3-chloropropene	1.239	1.016	18.0	100	0.02
21	C	carbon disulfide	2.387	1.671	30.0	89	0.02
22		Freon 113	1.480	1.192	19.5	97	0.02
23		trans-1,2-dichloroethene	1.357	1.091	19.6	96	0.02
24	C	1,1-dichloroethane	1.713	1.363	20.4	95	0.02
25	C	MTBE	2.166	1.658	23.5	93	0.02
26	C	vinyl acetate	1.519	1.220	19.7	98	0.02
27	C	2-butanone	1.820	1.481	18.6	101	0.02
28		cis-1,2-dichloroethene	1.260	1.059	16.0	100	0.03
29		Ethyl Acetate	0.327	0.277	15.3	100	0.02
30	C	chloroform	1.226	1.093	10.8	108	0.02
31		Tetrahydrofuran	1.116	0.852	23.7	93	0.02
32	C	1,2-dichloroethane	1.053	0.891	15.4	102	0.02
33	I	1,4-difluorobenzene	1.000	1.000	0.0	97	0.01
34	C	hexane	0.461	0.507	-10.0	107	0.02
36	C	1,1,1-trichloroethane	0.347	0.392	-13.0	106	0.02
37	C	benzene	0.760	0.728	4.2	94	0.02
38	C	carbon tetrachloride	0.283	0.314	-11.0	105	0.01
39		cyclohexane	0.472	0.525	-11.2	109	0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Dibromomethane	0.230	0.231	-0.4	102	0.01
41	C	1,2-dichloropropane	0.352	0.325	7.7	91	0.01
42		bromodichloromethane	0.360	0.413	-14.7	111	0.00
43	C	1,4-dioxane	0.175	0.191	-9.1	113	0.01
44	C	trichloroethene	0.284	0.296	-4.2	101	0.01
45	C	2,2,4-trimethylpentane	1.466	1.597	-8.9	108	0.01
46		heptane	0.527	0.526	0.2	100	0.00
47	C	cis-1,3-dichloropropene	0.389	0.392	-0.8	96	0.00
48	C	4-methyl-2-pentanone	0.600	0.615	-2.5	99	0.02
49		trans-1,3-dichloropropene	0.292	0.321	-9.9	99	0.00
50	C	1,1,2-trichloroethane	0.298	0.302	-1.3	97	0.00
51	I	chlorobenzene-D5	1.000	1.000	0.0	117	0.00
52	C	toluene	6.271	5.296	15.5	104	0.00
54		2-hexanone	3.939	3.129	20.6	95	0.00
55		dibromochloromethane	2.235	2.123	5.0	113	0.00
56	C	1,2-dibromoethane	3.034	2.300	24.2	90	0.00
57	C	tetrachloroethene	2.450	1.823	25.6	94	0.00
58		1,1,1,2-tetrachloroethane	1.687	1.518	10.0	104	0.00
59	C	chlorobenzene	5.207	3.801	27.0	91	0.00
60	C	ethylbenzene	7.810	6.671	14.6	102	0.00
61	C	m+p-xylene	6.292	5.536	12.0	103	0.00
62	C	bromoform	1.852	1.781	3.8	106	0.00
63	C	styrene	5.502	4.253	22.7	88	0.00
64	C	1,1,2,2-tetrachloroethane	4.049	3.549	12.3	105	0.00
65	C	o-xylene	6.389	5.627	11.9	105	0.00
66		1,2,3-Trichloropropane	3.450	2.490	27.8	90	0.00
68	C	isopropylbenzene	9.074	6.570	27.6	89	0.00
69		Bromobenzene	4.186	3.368	19.5	94	0.00
70		4-ethyl toluene	9.141	6.850	25.1	88	0.00
71		1,3,5-trimethylbenzene	9.291	7.164	22.9	92	0.00
72		tert-butylbenzene	7.717	5.927	23.2	93	0.00
73		1,2,4-trimethylbenzene	8.147	6.269	23.1	90	0.00
74	C	Benzyl Chloride	3.645	4.043	-10.9	111	0.00
75		1,3-dichlorobenzene	3.848	3.273	14.9	91	0.00
76	C	1,4-dichlorobenzene	3.629	3.273	9.8	91	0.00
77		sec-butylbenzene	11.553	8.172	29.3	86	0.00
78		p-isopropyltoluene	9.102	6.545	28.1	86	0.00
79		1,2-dichlorobenzene	3.924	3.128	20.3	90	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	7.811	6.716	14.0	101	0.00
81	1,2-dibromo-3-chloropropane	1.528	1.477	3.3	92	0.00
82 C	1,2,4-trichlorobenzene	2.722	2.652	2.6	88	0.00
83	naphthalene	7.207	6.532	9.4	89	0.00
84	1,2,3-trichlorobenzene	2.615	2.250	14.0	88	0.00
85 C	hexachlorobutadiene	3.003	2.643	12.0	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.517	49	262028	10.000	ppbV	0.02
Standard Area = 262028			Recovery = 100.00%			
33) 1,4-difluorobenzene	10.767	114	725299	10.000	ppbV	0.01
Standard Area = 725299			Recovery = 100.00%			
51) chlorobenzene-D5	15.542	54	130584	10.000	ppbV	0.00
Standard Area = 130584			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	3.422	41	16039	0.876	ppbV	98
3) dichlorodifluoromethane	3.494	85	141331	4.846	ppbV	98
4) chloromethane	3.644	50	51260	4.052	ppbV	96
5) Freon-114	3.746	85	146338	4.644	ppbV	98
6) vinyl chloride	3.854	62	87088	4.850	ppbV	98
7) 1,3-butadiene	3.986	54	61010	4.733	ppbV	98
8) bromomethane	4.250	94	59912	4.896	ppbV	99
9) chloroethane	4.424	64	56686	5.719	ppbV	99
10) ethanol	4.544	31	314945	20.996	ppbV	97
11) vinyl bromide	4.787	106	67329	3.527	ppbV	98
12) acrolein	4.907	56	43940	4.137	ppbV	99
13) acetone	5.040	43	600119	20.983	ppbV	96
14) trichlorofluoromethane	5.243	101	159838	4.345	ppbV	97
15) isopropyl alcohol	5.317	45	338197	11.645	ppbV	100
16) acrylonitrile	5.560	53	78350	4.578	ppbV	99
17) 1,1-dichloroethene	5.938	61	152028	4.426	ppbV	97
18) tertiary butyl alcohol	5.980	59	205660	5.123	ppbV	98
19) methylene chloride	6.082	49	99234	4.890	ppbV	97
20) 3-chloropropene	6.214	41	133091	4.099	ppbV	99
21) carbon disulfide	6.382	76	218891	3.499	ppbV	97
22) Freon 113	6.394	101	156161	4.027	ppbV	97
23) trans-1,2-dichloroethene	7.142	61	142977	4.022	ppbV	96
24) 1,1-dichloroethane	7.367	63	178549	3.977	ppbV	98
25) MTBE	7.442	73	217257	3.828	ppbV	95
26) vinyl acetate	7.558	43	159812	4.014	ppbV	99
27) 2-butanone	7.808	43	193983	4.067	ppbV	95
28) cis-1,2-dichloroethene	8.333	61	138718	4.202	ppbV	96
29) Ethyl Acetate	8.608	61	36264	4.228	ppbV	59
30) chloroform	8.675	83	143203	4.457	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	9.108	42	111571	3.814	ppbV		95
32) 1,2-dichloroethane	9.508	62	116770	4.231	ppbV		97
34) hexane	8.592	57	184038	5.509	ppbV		84
36) 1,1,1-trichloroethane	9.807	97	141991	5.646	ppbV		97
37) benzene	10.333	78	264020	4.788	ppbV		96
38) carbon tetrachloride	10.507	117	113960	5.550	ppbV		99
39) cyclohexane	10.647	56	190512	5.570	ppbV		95
40) Dibromomethane	11.247	93	83665	5.020	ppbV	#	94
41) 1,2-dichloropropane	11.280	63	117804	4.609	ppbV		98
42) bromodichloromethane	11.507	83	149750	5.740	ppbV		99
43) 1,4-dioxane	11.547	88	69255	5.447	ppbV		98
44) trichloroethene	11.567	130	107403	5.209	ppbV		97
45) 2,2,4-trimethylpentane	11.613	57	579129	5.445	ppbV		96
46) heptane	11.933	43	190860	4.997	ppbV		95
47) cis-1,3-dichloropropene	12.575	75	142026	5.038	ppbV		98
48) 4-methyl-2-pentanone	12.617	43	223037	5.129	ppbV		96
49) trans-1,3-dichloropropene	13.200	75	116397	5.489	ppbV		99
50) 1,1,2-trichloroethane	13.400	97	109529	5.073	ppbV		94
52) toluene	13.733	91	345811	4.223	ppbV		98
54) 2-hexanone	14.033	43	204316	3.972	ppbV		95
55) dibromochloromethane	14.208	129	138611	4.750	ppbV		100
56) 1,2-dibromoethane	14.467	107	150193	3.791	ppbV		99
57) tetrachloroethene	14.942	166	119001	3.720	ppbV		92
58) 1,1,1,2-tetrachloroethane	15.567	131	99129	4.498	ppbV		96
59) chlorobenzene	15.583	112	248178	3.650	ppbV		99
60) ethylbenzene	15.933	91	435536	4.270	ppbV		89
61) m+p-xylene	16.092	91	722852	8.798	ppbV		89
62) bromoform	16.158	173	116263	4.808	ppbV		99
63) styrene	16.417	104	277677	3.865	ppbV		95
64) 1,1,2,2-tetrachloroethane	16.508	83	231724	4.383	ppbV		100
65) o-xylene	16.517	91	367415	4.404	ppbV		91
66) 1,2,3-Trichloropropane	16.625	75	162582	3.609	ppbV		98
68) isopropylbenzene	17.025	105	428994	3.620	ppbV		92
69) Bromobenzene	17.092	77	219920	4.023	ppbV		95
70) 4-ethyl toluene	17.567	105	447282	3.747	ppbV		95
71) 1,3,5-trimethylbenzene	17.625	105	467767	3.855	ppbV		95
72) tert-butylbenzene	17.967	119	386979	3.840	ppbV		99
73) 1,2,4-trimethylbenzene	17.967	105	409283	3.847	ppbV		93
74) Benzyl Chloride	18.083	91	263979	5.545	ppbV		100
75) 1,3-dichlorobenzene	18.092	146	213677	4.252	ppbV		97

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

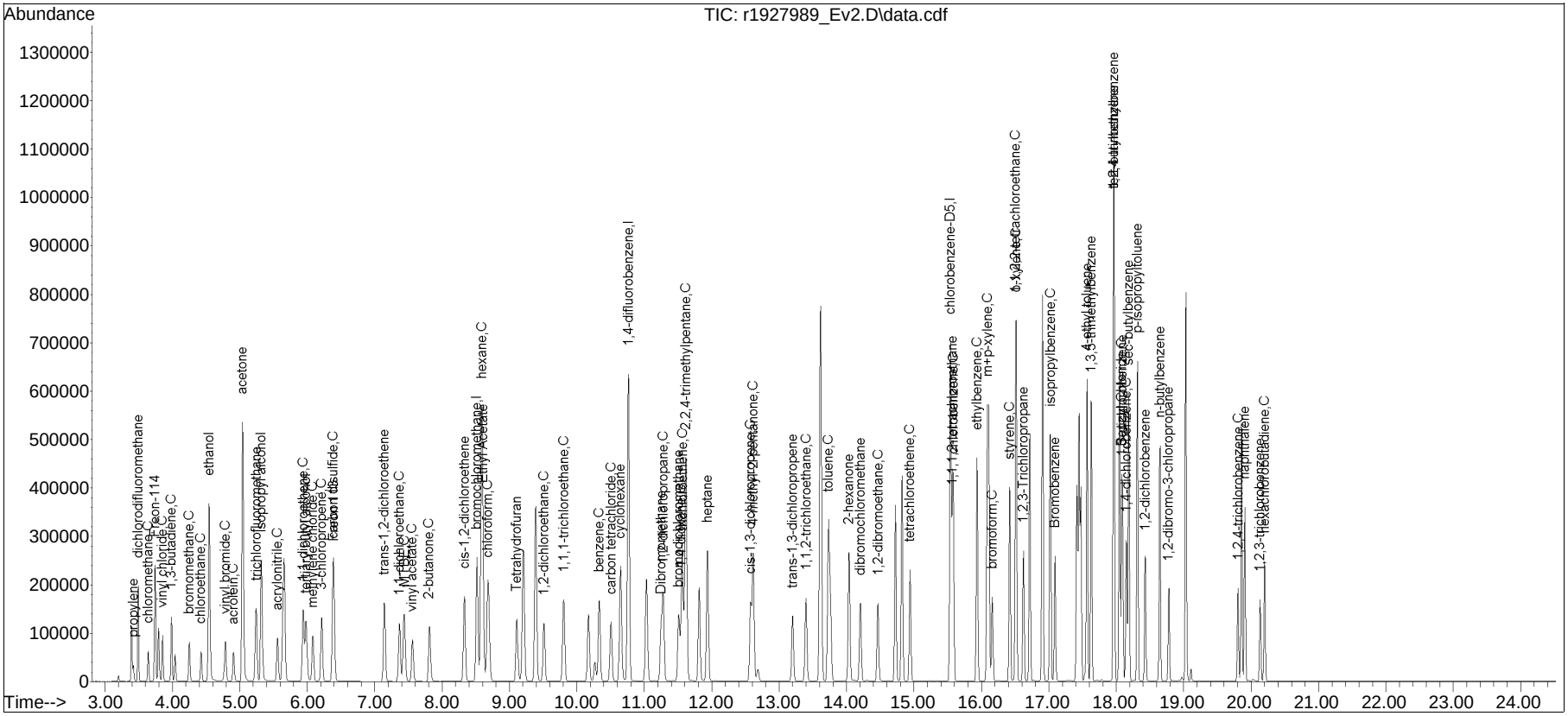
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	18.150	146	213723	4.510	ppbV	99
77) sec-butylbenzene	18.183	105	533595	3.537	ppbV	96
78) p-isopropyltoluene	18.317	119	427325	3.595	ppbV	96
79) 1,2-dichlorobenzene	18.433	146	204265	3.986	ppbV	88
80) n-butylbenzene	18.650	91	438522	4.299	ppbV	97
81) 1,2-dibromo-3-chloropr...	18.775	75	96451	4.833	ppbV	96
82) 1,2,4-trichlorobenzene	19.808	180	173159	4.872	ppbV	99
83) naphthalene	19.908	128	426516	4.532	ppbV	98
84) 1,2,3-trichlorobenzene	20.133	180	146932	4.303	ppbV	97
85) hexachlorobutadiene	20.200	225	172558	4.400	ppbV	100

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

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1927989_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-2,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab19	QMethod	: TSIM19_240221.M
Data File	: r1927989_Ev2.D	Operator	: AIRLAB19:BJB
Date Inj'd	: 2/25/2020 0:2: 6	Instrument	:
Sample	: WG1889046-2,3,250,250	Quant Date	: 2/25/2024 3:36 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	bromochloromethane	1.000	1.000	0.0	102	-0.04
2		propylene	0.683	0.663	2.9	98	-0.02
3		dichlorodifluoromethane	1.207	1.161	3.8	92	-0.02
4	C	chloromethane	0.603	0.596	1.2	98	-0.02
5		Freon-114	1.501	1.626	-8.3	105	-0.02
6	C	vinyl chloride	0.835	0.888	-6.3	104	-0.02
7	C	1,3-butadiene	0.576	0.656	-13.9	113	-0.03
8	C	bromomethane	0.618	0.649	-5.0	106	-0.02
9	C	chloroethane	0.433	0.432	0.2	100	-0.02
10		ethanol	0.460	0.469	-2.0	102	-0.02
11	C	vinyl bromide	0.654	0.615	6.0	92	-0.03
12	C	acrolein	0.380	0.330	13.2	88	-0.03
13		acetone	1.057	0.824	22.0	80	-0.03
14		trichlorofluoromethane	1.277	1.159	9.2	90	-0.03
15		isopropyl alcohol	1.273	0.975	23.4	78	-0.03
16	C	acrylonitrile	0.631	0.576	8.7	94	-0.03
17	C	1,1-dichloroethene	1.233	1.086	11.9	87	-0.04
18		tertiary butyl alcohol	1.633	1.478	9.5	93	-0.03
19	C	methylene chloride	0.799	0.750	6.1	94	-0.04
20	C	3-chloropropene	1.153	0.970	15.9	85	-0.04
21	C	carbon disulfide	2.192	1.751	20.1	80	-0.04
22		Freon 113	1.426	1.098	23.0	79	-0.04
23		trans-1,2-dichloroethene	1.241	1.032	16.8	82	-0.04
24	C	1,1-dichloroethane	1.597	1.260	21.1	79	-0.03
25	C	MTBE	2.011	1.715	14.7	85	-0.04
26	C	vinyl acetate	1.637	1.215	25.8	77	-0.04
27	C	2-butanone	1.666	1.386	16.8	81	-0.03
28		cis-1,2-dichloroethene	1.178	0.990	16.0	83	-0.04
29		Ethyl Acetate	0.304	0.265	12.8	85	-0.03
30	C	chloroform	1.282	1.211	5.5	95	-0.04
31		Tetrahydrofuran	1.046	0.842	19.5	81	-0.03
32	C	1,2-dichloroethane	0.960	0.869	9.5	91	-0.04
33	I	1,4-difluorobenzene	1.000	1.000	0.0	88	-0.04
34	C	hexane	0.477	0.500	-4.8	89	-0.04
36	C	1,1,1-trichloroethane	0.366	0.385	-5.2	89	-0.04
37	C	benzene	0.871	0.766	12.1	78	-0.04
38	C	carbon tetrachloride	0.294	0.343	-16.7	96	-0.04
39		cyclohexane	0.500	0.525	-5.0	90	-0.04

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
40		Dibromomethane	0.237	0.238	-0.4	89	-0.04
41	C	1,2-dichloropropane	0.349	0.320	8.3	78	-0.04
42		bromodichloromethane	0.369	0.469	-27.1	104	-0.04
43	C	1,4-dioxane	0.188	0.204	-8.5	90	-0.04
44	C	trichloroethene	0.335	0.342	-2.1	85	-0.04
45	C	2,2,4-trimethylpentane	1.611	1.670	-3.7	95	-0.04
46		heptane	0.551	0.553	-0.4	87	-0.04
47	C	cis-1,3-dichloropropene	0.387	0.408	-5.4	82	-0.04
48	C	4-methyl-2-pentanone	0.624	0.653	-4.6	89	-0.04
49		trans-1,3-dichloropropene	0.285	0.332	-16.5	84	-0.03
50	C	1,1,2-trichloroethane	0.313	0.296	5.4	78	-0.04
51	I	chlorobenzene-D5	1.000	1.000	0.0	110	-0.03
52	C	toluene	6.898	5.269	23.6	82	-0.03
54		2-hexanone	3.779	3.264	13.6	88	-0.03
55		dibromochloromethane	2.182	2.453	-12.4	110	-0.03
56	C	1,2-dibromoethane	2.853	2.281	20.0	81	-0.03
57	C	tetrachloroethene	2.803	2.183	22.1	85	-0.03
58		1,1,1,2-tetrachloroethane	2.052	1.802	12.2	96	-0.03
59	C	chlorobenzene	5.059	3.998	21.0	84	-0.03
60	C	ethylbenzene	8.347	6.675	20.0	84	-0.03
61	C	m+p-xylene	6.670	5.693	14.6	88	-0.03
62	C	bromoform	1.875	2.208	-17.8	109	-0.03
63	C	styrene	5.108	4.282	16.2	81	-0.03
64	C	1,1,2,2-tetrachloroethane	4.482	4.240	5.4	97	-0.03
65	C	o-xylene	6.772	6.030	11.0	92	-0.03
66		1,2,3-Trichloropropane	3.516	3.016	14.2	94	-0.03
68	C	isopropylbenzene	8.601	7.203	16.3	93	-0.03
69		Bromobenzene	4.779	4.116	13.9	97	-0.02
70		4-ethyl toluene	8.308	7.796	6.2	90	-0.03
71		1,3,5-trimethylbenzene	7.642	6.942	9.2	91	-0.03
72		tert-butylbenzene	7.755	7.180	7.4	100	-0.02
73		1,2,4-trimethylbenzene	7.417	6.996	5.7	91	-0.02
74	C	Benzyl Chloride	4.200	4.629	-10.2	104	-0.02
75		1,3-dichlorobenzene	4.608	4.728	-2.6	94	-0.03
76	C	1,4-dichlorobenzene	4.532	4.752	-4.9	94	-0.02
77		sec-butylbenzene	11.064	9.521	13.9	92	-0.03
78		p-isopropyltoluene	9.281	8.146	12.2	94	-0.02
79		1,2-dichlorobenzene	4.681	4.443	5.1	93	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
80	n-butylbenzene	8.630	8.217	4.8	103	0.00
81	1,2-dibromo-3-chloropropane	1.699	1.774	-4.4	103	0.00
82 C	1,2,4-trichlorobenzene	3.799	3.928	-3.4	94	0.03
83	naphthalene	9.035	9.716	-7.5	114	0.03
84	1,2,3-trichlorobenzene	3.485	3.600	-3.3	111	0.03
85 C	hexachlorobutadiene	4.015	3.561	11.3	87	0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	180634	10.000	ppbV	-0.04
Standard Area = 180634			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.180	114	492655	10.000	ppbV	-0.04
Standard Area = 492655			Recovery = 100.00%			
51) chlorobenzene-D5	15.908	54	92375	10.000	ppbV	-0.03
Standard Area = 92375			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
2) propylene	3.810	41	59908M6	4.858	ppbV	
3) dichlorodifluoromethane	3.882	85	104825	4.806	ppbV	99
4) chloromethane	4.044	50	53812	4.944	ppbV	97
5) Freon-114	4.146	85	146884	5.418	ppbV	96
6) vinyl chloride	4.266	62	80202	5.316	ppbV	99
7) 1,3-butadiene	4.404	54	59281	5.701	ppbV	88
8) bromomethane	4.686	94	58595	5.250	ppbV	99
9) chloroethane	4.872	64	39052	4.991	ppbV	99
10) ethanol	4.998	31	211972	25.498	ppbV	95
11) vinyl bromide	5.247	106	55577	4.704	ppbV	97
12) acrolein	5.373	56	29824	4.350	ppbV #	93
13) acetone	5.513	43	372230	19.496	ppbV	93
14) trichlorofluoromethane	5.700	101	104638	4.535	ppbV	99
15) isopropyl alcohol	5.790	45	220148	9.576	ppbV	100
16) acrylonitrile	6.027	53	52055	4.564	ppbV	98
17) 1,1-dichloroethene	6.394	61	98070	4.402	ppbV	94
18) tertiary butyl alcohol	6.448	59	133462	4.526	ppbV	98
19) methylene chloride	6.538	49	67718	4.693	ppbV	94
20) 3-chloropropene	6.664	41	87588	4.204	ppbV	96
21) carbon disulfide	6.838	76	158154	3.995	ppbV	97
22) Freon 113	6.838	101	99128	3.849	ppbV	97
23) trans-1,2-dichloroethene	7.583	61	93166	4.157	ppbV	92
24) 1,1-dichloroethane	7.808	63	113825	3.947	ppbV	99
25) MTBE	7.875	73	154865	4.264	ppbV	94
26) vinyl acetate	7.992	43	109711	3.711	ppbV	99
27) 2-butanone	8.258	43	125200	4.160	ppbV	97
28) cis-1,2-dichloroethene	8.758	61	89426	4.202	ppbV	93
29) Ethyl Acetate	9.033	61	23948	4.362	ppbV	75
30) chloroform	9.100	83	109369	4.722	ppbV	99

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
31) Tetrahydrofuran	9.542	42	76066	4.026	ppbV		99
32) 1,2-dichloroethane	9.933	62	78521	4.527	ppbV		97
34) hexane	9.008	57	123189	5.238	ppbV		89
36) 1,1,1-trichloroethane	10.225	97	94893	5.265	ppbV		99
37) benzene	10.753	78	188768	4.399	ppbV		95
38) carbon tetrachloride	10.927	117	84550	5.838	ppbV		99
39) cyclohexane	11.067	56	129202	5.249	ppbV		98
40) Dibromomethane	11.667	93	58598	5.010	ppbV	#	99
41) 1,2-dichloropropane	11.700	63	78816	4.582	ppbV		98
42) bromodichloromethane	11.927	83	115625	6.362	ppbV		99
43) 1,4-dioxane	11.973	88	50131	5.412	ppbV		98
44) trichloroethene	11.980	130	84123	5.091	ppbV		98
45) 2,2,4-trimethylpentane	12.027	57	411467	5.184	ppbV		98
46) heptane	12.340	43	136144	5.018	ppbV		96
47) cis-1,3-dichloropropene	12.992	75	100624	5.275	ppbV		99
48) 4-methyl-2-pentanone	13.033	43	160909	5.232	ppbV		99
49) trans-1,3-dichloropropene	13.625	75	81673	5.826	ppbV		96
50) 1,1,2-trichloroethane	13.825	97	72885	4.724	ppbV		88
52) toluene	14.142	91	243354	3.819	ppbV		99
54) 2-hexanone	14.425	43	150735	4.318	ppbV		98
55) dibromochloromethane	14.592	129	113284	5.620	ppbV		99
56) 1,2-dibromoethane	14.842	107	105352	3.997	ppbV		100
57) tetrachloroethene	15.308	166	100806	3.894	ppbV		96
58) 1,1,1,2-tetrachloroethane	15.933	131	83215	4.390	ppbV		99
59) chlorobenzene	15.950	112	184647	3.951	ppbV		96
60) ethylbenzene	16.300	91	308311	3.999	ppbV		95
61) m+p-xylene	16.467	91	525934	8.536	ppbV		95
62) bromoform	16.533	173	101994	5.890	ppbV		99
63) styrene	16.792	104	197765	4.191	ppbV		94
64) 1,1,2,2-tetrachloroethane	16.883	83	195819	4.729	ppbV		99
65) o-xylene	16.892	91	278530	4.453	ppbV		97
66) 1,2,3-Trichloropropane	17.000	75	139305	4.289	ppbV		100
68) isopropylbenzene	17.400	105	332677	4.187	ppbV		97
69) Bromobenzene	17.483	77	190110	4.307	ppbV		97
70) 4-ethyl toluene	17.967	105	360097	4.692	ppbV		94
71) 1,3,5-trimethylbenzene	18.025	105	320618	4.542	ppbV		94
72) tert-butylbenzene	18.367	119	331625	4.629	ppbV		99
73) 1,2,4-trimethylbenzene	18.367	105	323119	4.716	ppbV		94
74) Benzyl Chloride	18.492	91	213804	5.511	ppbV		98
75) 1,3-dichlorobenzene	18.508	146	218362	5.130	ppbV		98

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

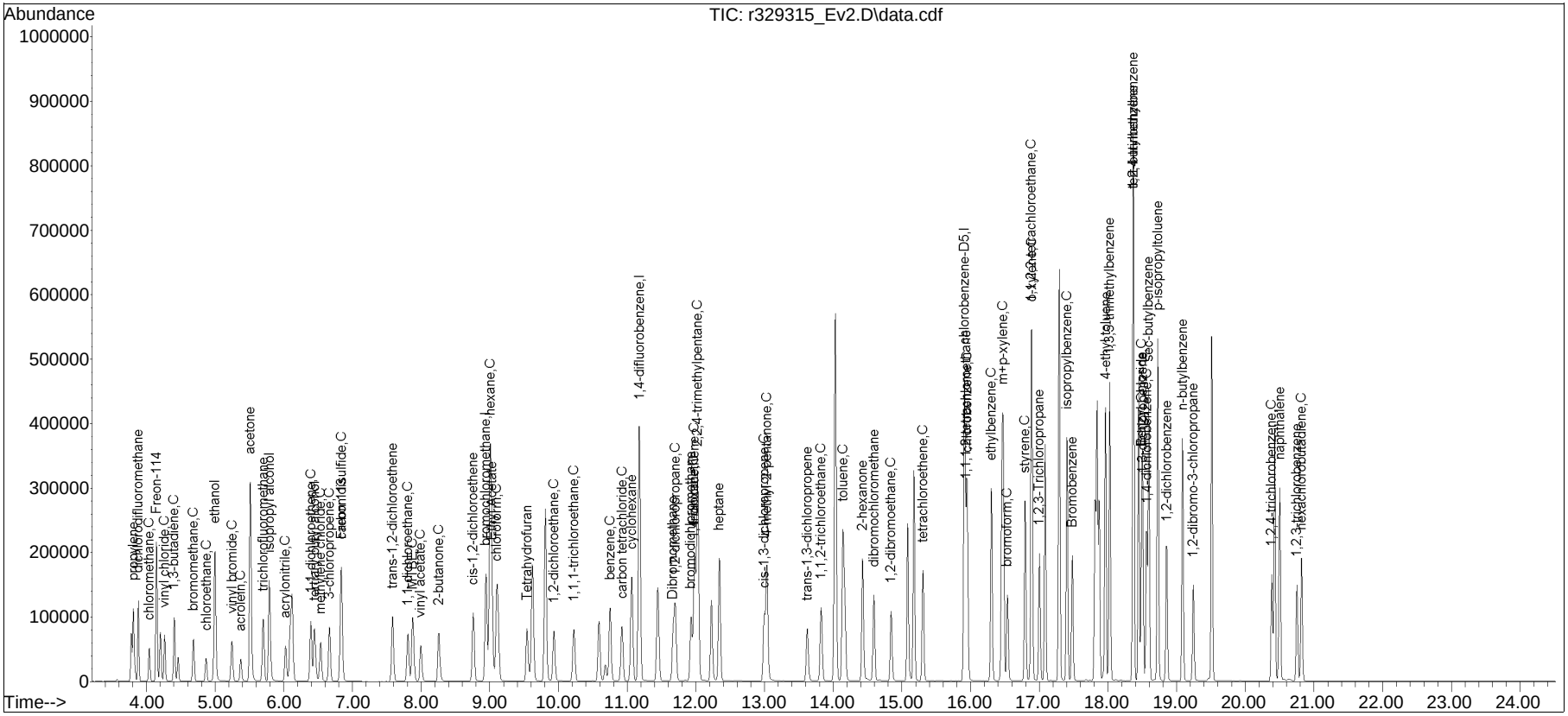
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
76) 1,4-dichlorobenzene	18.567	146	219503	5.243	ppbV	93
77) sec-butylbenzene	18.592	105	439765	4.303	ppbV	97
78) p-isopropyltoluene	18.725	119	376240	4.389	ppbV	95
79) 1,2-dichlorobenzene	18.858	146	205213	4.746	ppbV	95
80) n-butylbenzene	19.083	91	379524	4.761	ppbV	95
81) 1,2-dibromo-3-chloropr...	19.242	75	81918	5.220	ppbV	97
82) 1,2,4-trichlorobenzene	20.383	180	181424	5.169	ppbV	99
83) naphthalene	20.500	128	448771	5.377	ppbV	98
84) 1,2,3-trichlorobenzene	20.750	180	166296	5.166	ppbV	98
85) hexachlorobutadiene	20.817	225	164459	4.434	ppbV	98

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

Sub List : Default-LCS-AP2 - All compounds listed25SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-2,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

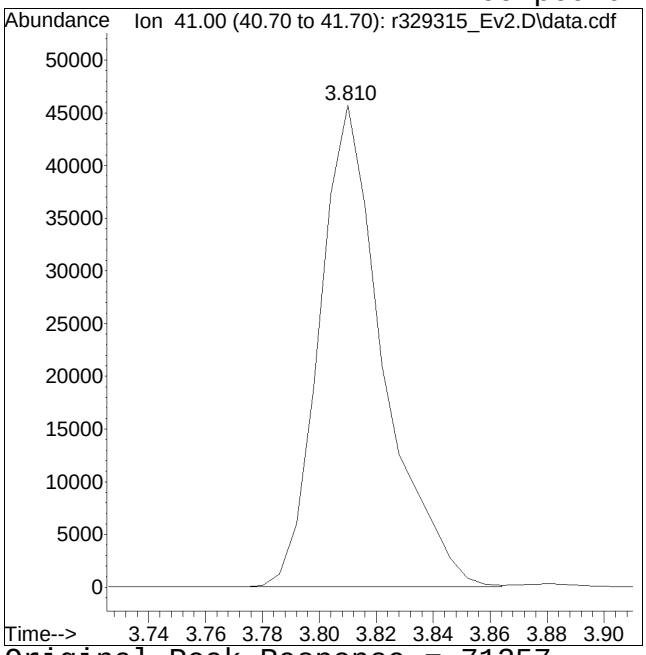


Manual Integration Report

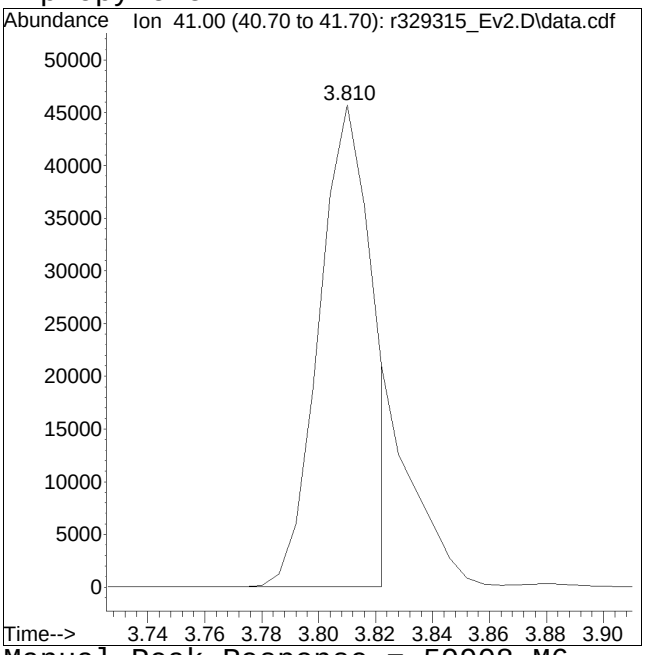
Data Path : O:\Forensics\Data\AirpianoQ
Data File : r329315_Ev2.D
Date Inj'd : 2/25/2020 0:3: 7
Sample : WG1889055-2,3,250,250

Method : TSIM3_231230.M
Operator : AIRPIANO3:BJB
Instrument :
Quant Date : 2/25/2024 4:08 pm

Compound #2: propylene



Original Peak Response = 71257



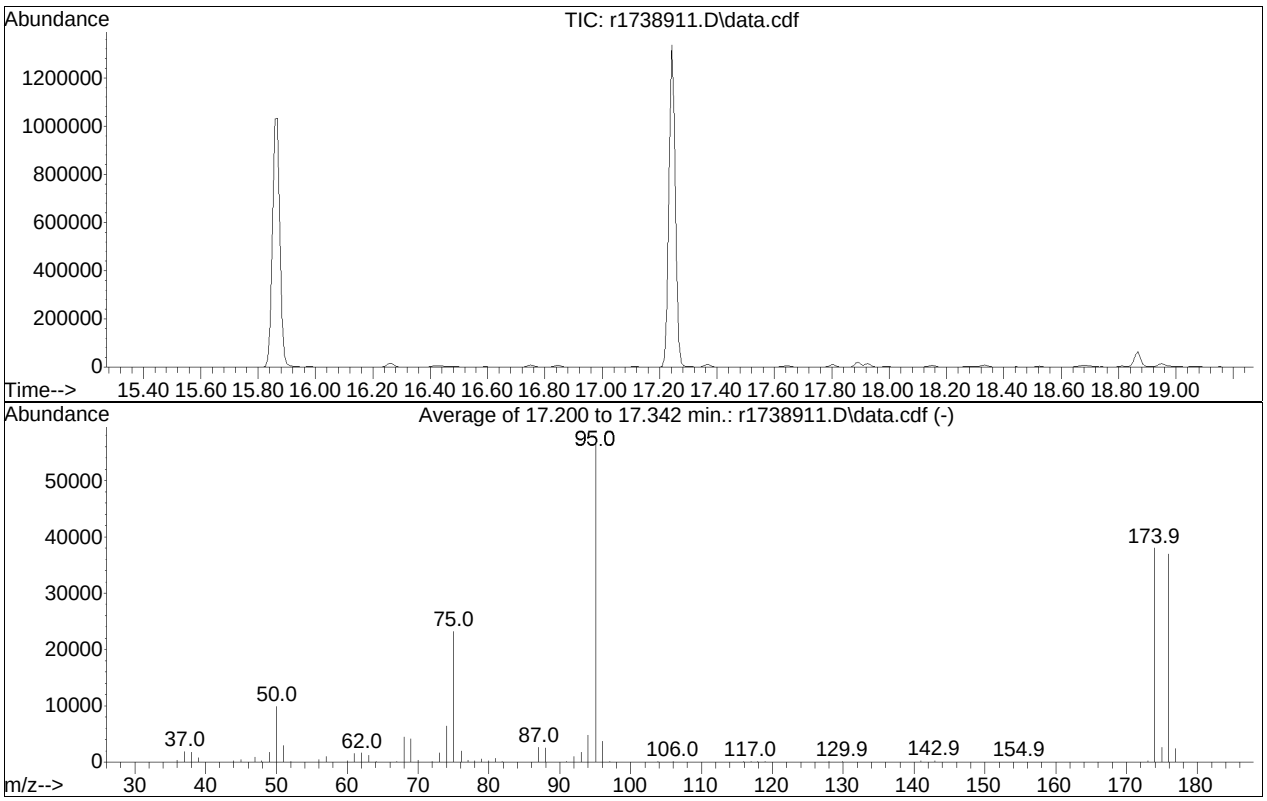
Manual Peak Response = 59908 M6

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

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738911.D
Acq On : 24 Feb 2024 11:22 AM
Operator : AIRLAB17:TJS
Sample : WG1888882-1,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Mon Jan 08 15:36:12 2024



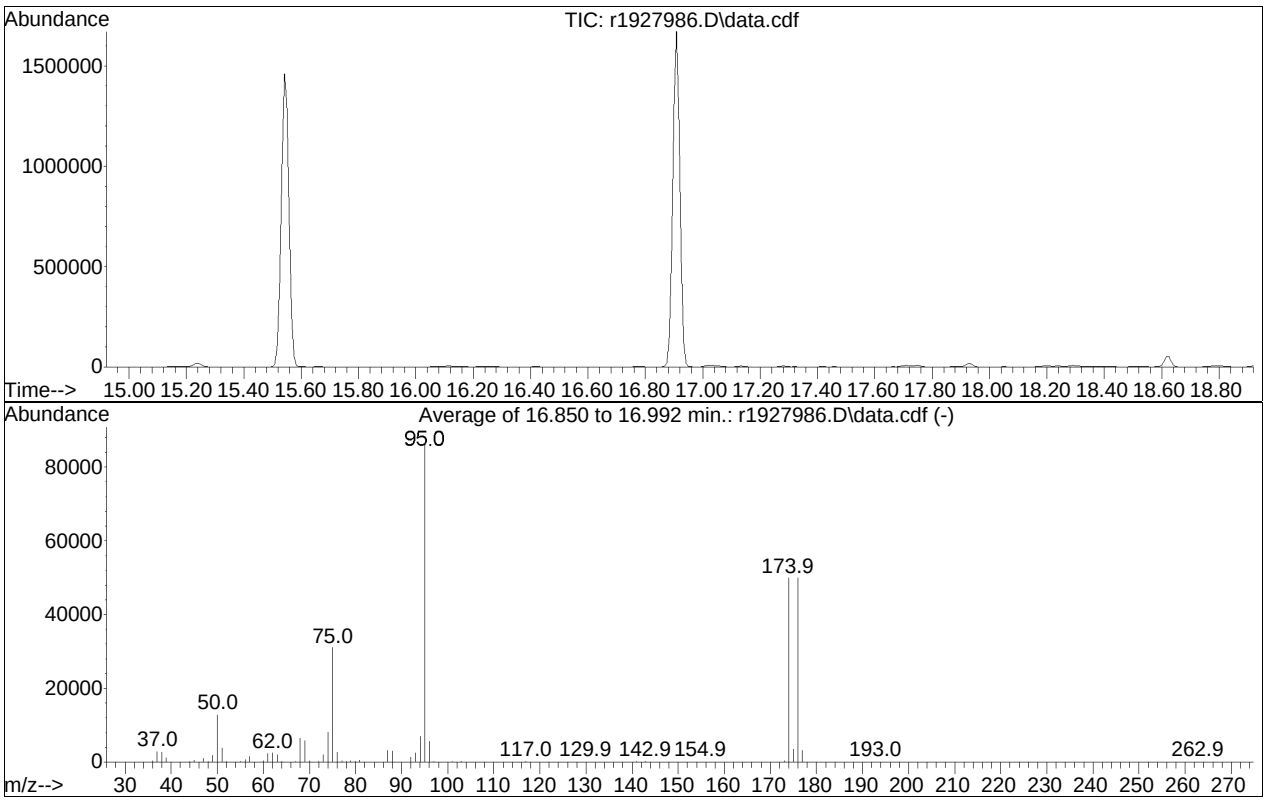
Spectrum Information: Average of 17.200 to 17.342 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.5	9937	PASS
75	95	30	66	41.0	23268	PASS
95	95	100	100	100.0	56732	PASS
96	95	5	9	6.6	3728	PASS
173	174	0.00	2	0.6	245	PASS
174	95	50	120	67.1	38078	PASS
175	174	4	9	7.1	2688	PASS
176	174	93	101	97.2	37018	PASS
177	176	5	9	6.6	2445	PASS

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927986.D
Acq On : 25 Feb 2024 12:34 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-1,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Fri Feb 23 11:07:27 2024



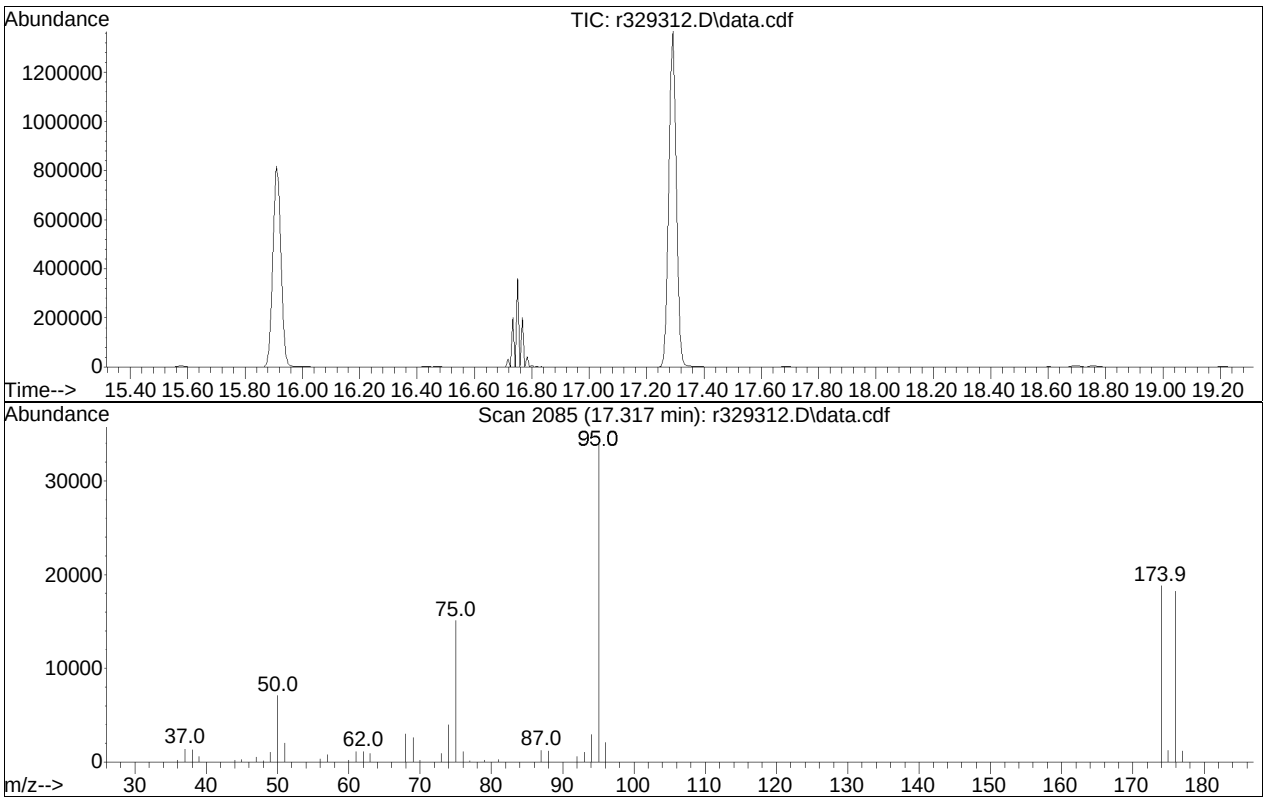
Spectrum Information: Average of 16.850 to 16.992 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.8	12798	PASS
75	95	30	66	35.9	31082	PASS
95	95	100	100	100.0	86631	PASS
96	95	5	9	6.5	5630	PASS
173	174	0.00	2	0.6	315	PASS
174	95	50	120	57.7	50001	PASS
175	174	4	9	7.1	3547	PASS
176	174	93	101	99.9	49947	PASS
177	176	5	9	6.5	3265	PASS

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329312.D
Acq On : 25 Feb 2024 12:25 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-1,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Integration File: rteint.p

Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Title : TO-14A/TO-15 SIM/Full Scan Analysis
Last Update : Tue Jan 16 17:54:34 2024



Spectrum Information: Scan 2085

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.8	7074	PASS
75	95	30	66	44.3	15087	PASS
95	95	100	100	100.0	34073	PASS
96	95	5	9	6.1	2088	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	55.3	18841	PASS
175	174	4	9	6.6	1247	PASS
176	174	93	101	96.6	18196	PASS
177	176	5	9	6.3	1154	PASS

Volatiles Raw QC Data

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738917_Ev2.D
Acq On : 24 Feb 2024 5:49 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-4,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:46:14 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

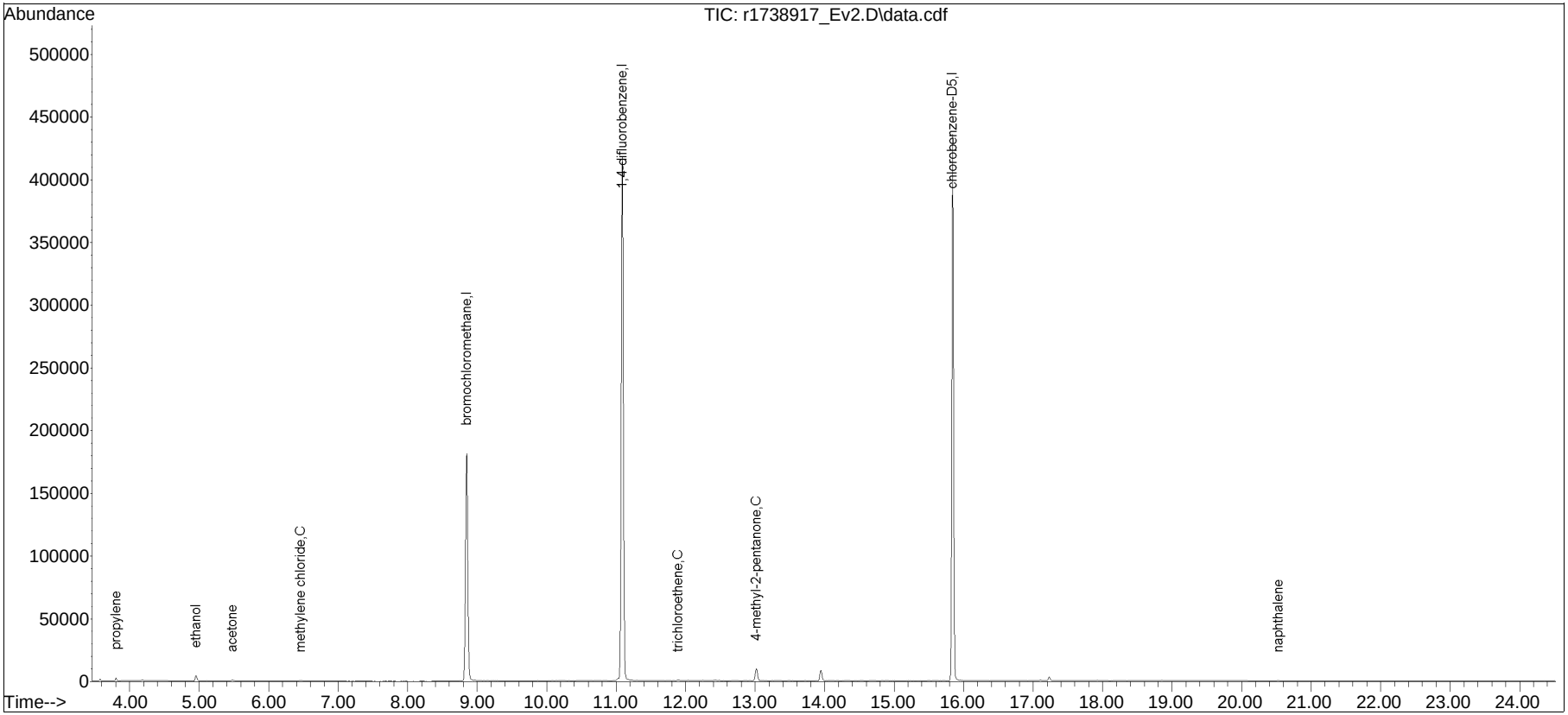
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.850	49	193619	10.000	ppbV	0.02
Standard Area = 222593			Recovery = 86.98%			
33) 1,4-difluorobenzene	11.090	114	547151	10.000	ppbV	0.02
Standard Area = 650953			Recovery = 84.05%			
51) chlorobenzene-D5	15.842	54	71104	10.000	ppbV	0.02
Standard Area = 90010			Recovery = 79.00%			
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	11.890	130	625M4	0.039	ppbV	
57) tetrachloroethene	15.242		0	N.D.		

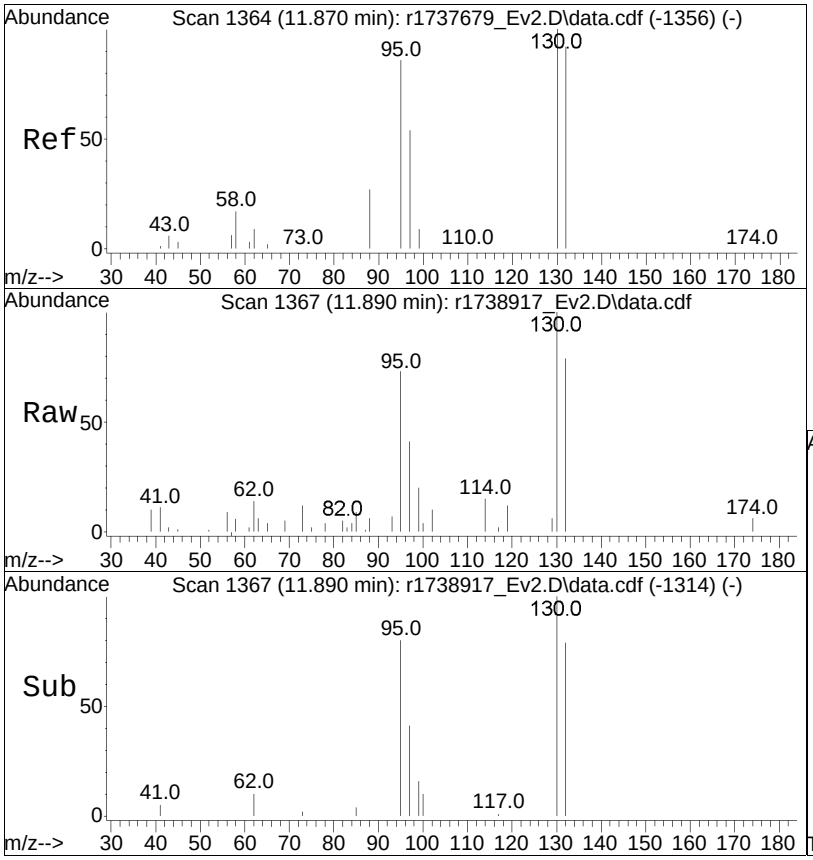
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed4SIM\r1738915_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738917_Ev2.D
Acq On : 24 Feb 2024 5:49 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-4,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:46:14 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

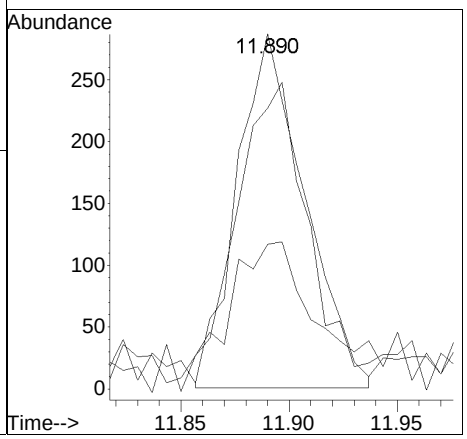




#44
trichloroethene
Concen: 0.04 ppbV m
RT: 11.890 min Scan# 1367
Delta R.T. 0.020 min
Lab File: r1738917_Ev2.D
Acq: 24 Feb 2024 5:49 PM

Tgt Ion:130 Resp: 625

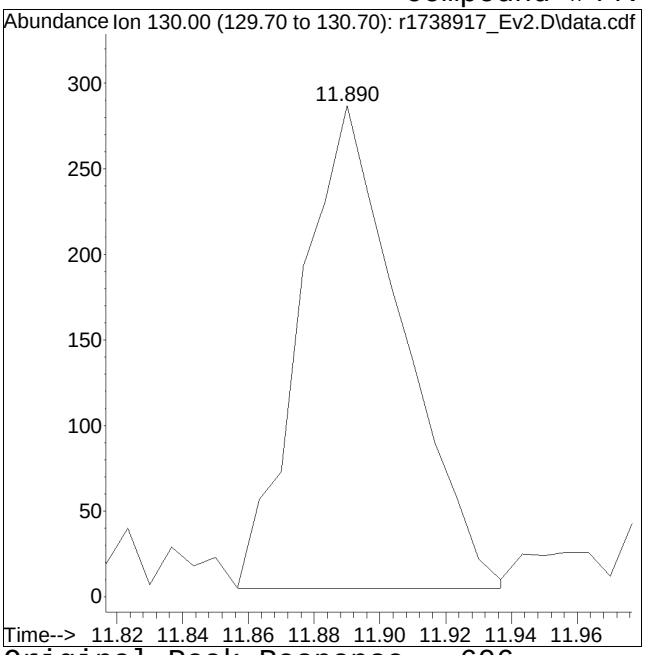
Ion	Ratio	Lower	Upper
130	100		
132	79.1	73.5	110.3
97	40.8	43.4	65.0#



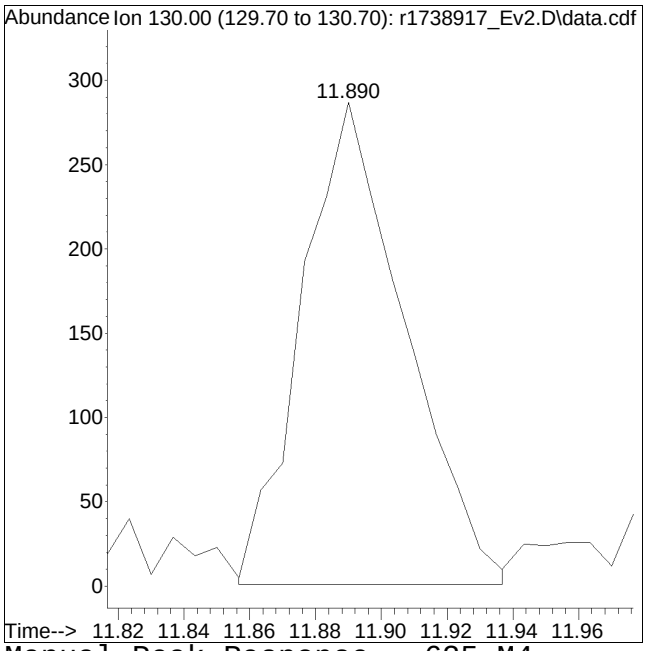
Manual Integration Report

Data Path : O:\Forensics\Data\Airlab17QMethod : TSIM17_240107.M
Data File : r1738917_Ev2.D Operator : AIRLAB17:TJS
Date Inj'd : 2/24/2020 0:5: 9 Instrument :
Sample : WG1888882-4,3,250,250 Quant Date : 2/25/2024 6:46 am

Compound #44: trichloroethene



Original Peak Response = 606



Manual Peak Response = 625 M4

M4 = Poor automated baseline construction.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927991_Ev2.D
Acq On : 25 Feb 2024 5:19 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-4,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:47:59 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

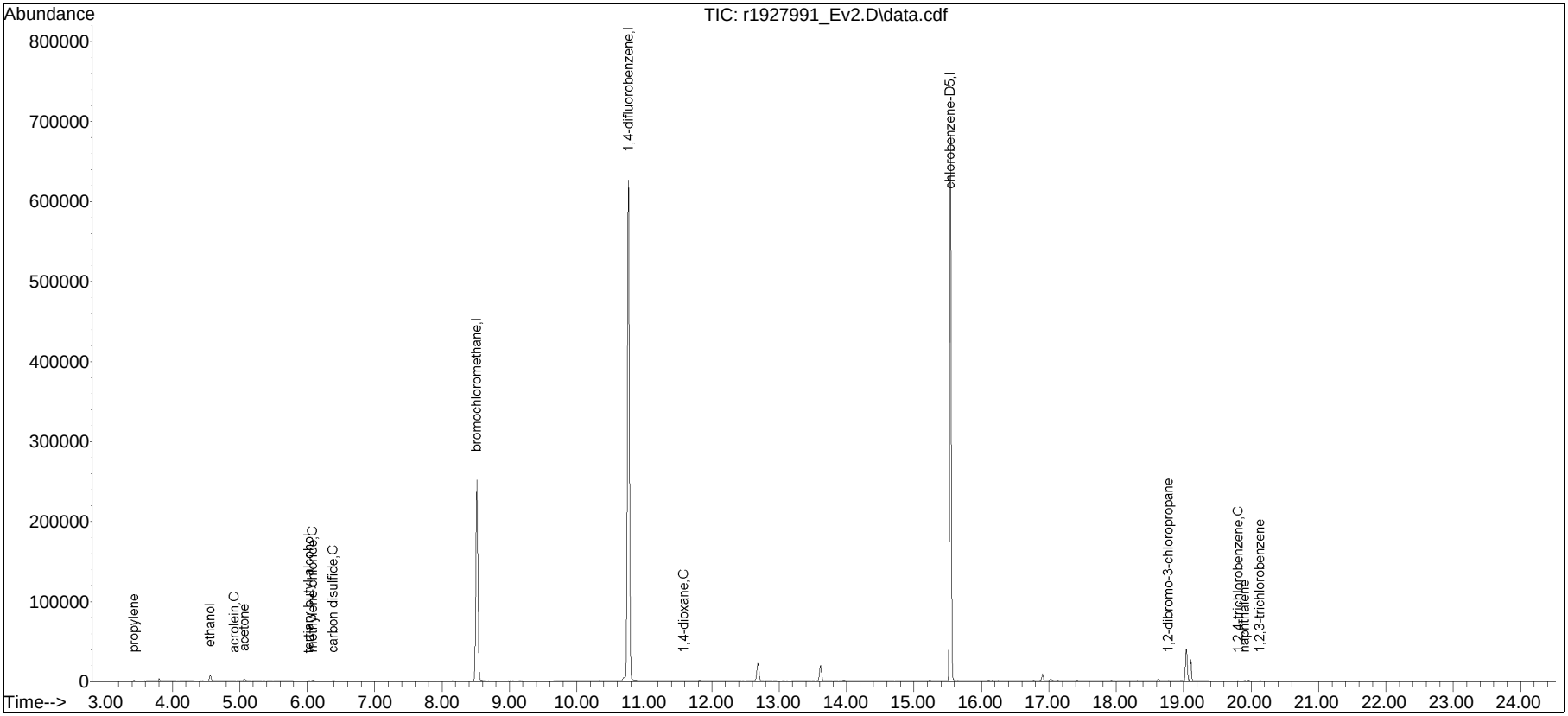
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.517	49	260786	10.000	ppbV	0.02
Standard Area = 262028			Recovery = 99.53%			
33) 1,4-difluorobenzene	10.767	114	722148	10.000	ppbV	0.01
Standard Area = 725299			Recovery = 99.57%			
51) chlorobenzene-D5	15.542	54	128219	10.000	ppbV	0.00
Standard Area = 130584			Recovery = 98.19%			
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	14.950		0		N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1927989_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927991_Ev2.D
Acq On : 25 Feb 2024 5:19 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-4,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:47:59 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab19	QMethod	: TSIM19_240221.M
Data File	: r1927991_Ev2.D	Operator	: AIRLAB19:BJB
Date Inj'd	: 2/25/2020 0:5: 9	Instrument	:
Sample	: WG1889046-4,3,250,250	Quant Date	: 2/25/2024 8:47 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329317_Ev2.D
Acq On : 25 Feb 2024 5:52 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-4,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:33:03 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

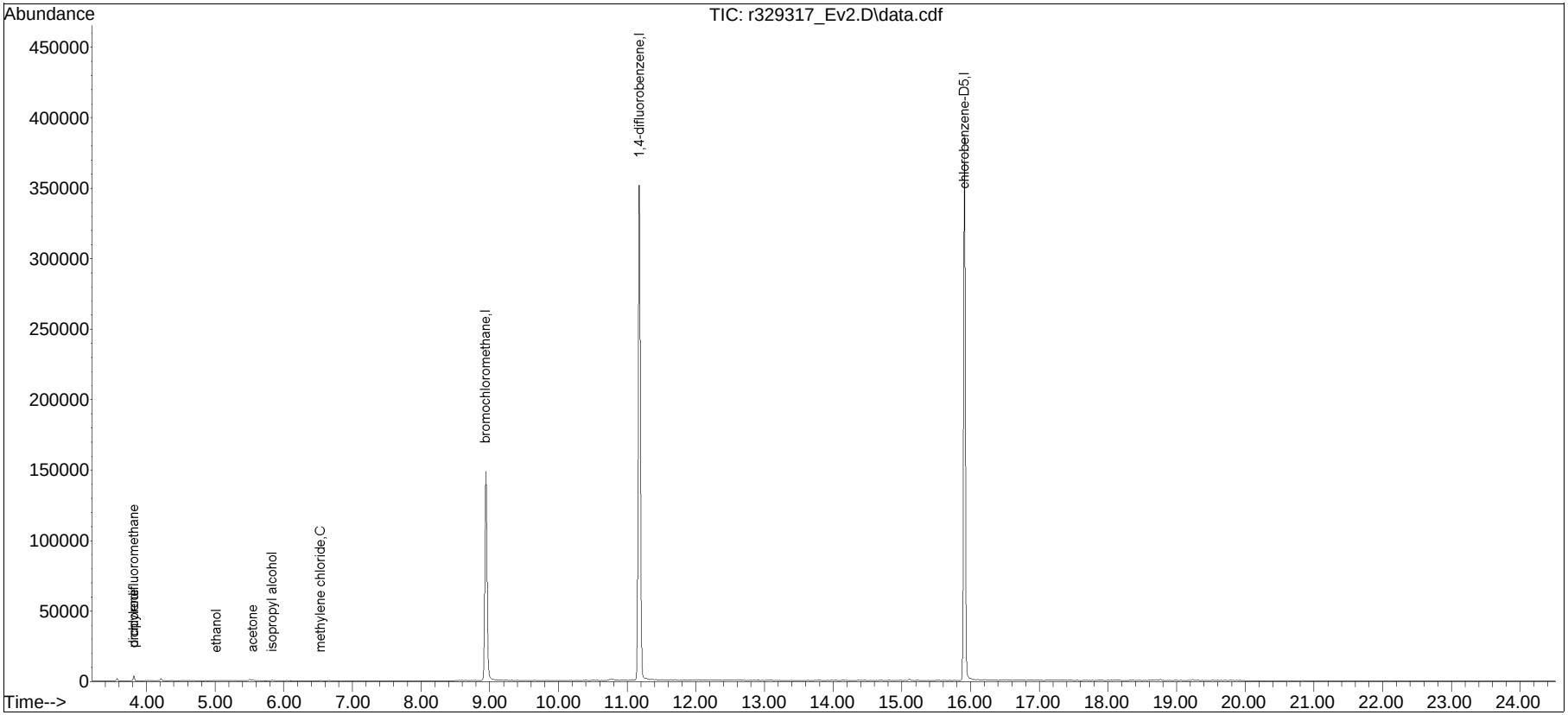
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	165299	10.000	ppbV	-0.04
Standard Area = 180634			Recovery = 91.51%			
33) 1,4-difluorobenzene	11.180	114	434281	10.000	ppbV	-0.04
Standard Area = 492655			Recovery = 88.15%			
51) chlorobenzene-D5	15.908	54	82997	10.000	ppbV	-0.03
Standard Area = 92375			Recovery = 89.85%			
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	0.000		0		N.D.	

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

Sub List : Default-LCS-AP2 - All compounds listed25SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329317_Ev2.D
Acq On : 25 Feb 2024 5:52 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-4,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 20:33:03 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329317_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:5: 2	Instrument	:
Sample	: WG1889055-4,3,250,250	Quant Date	: 2/25/2024 8:33 pm

There are no manual integrations or false positives in this file.

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-3,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	87	0.03
2		propylene	5.000	3.855	22.9	71	0.01
3		dichlorodifluoromethane	5.000	4.889	2.2	84	0.02
4	C	chloromethane	5.000	3.901	22.0	67	0.02
5		Freon-114	5.000	4.802	4.0	83	0.02
6	C	vinyl chloride	5.000	4.710	5.8	82	0.02
7	C	1,3-butadiene	5.000	4.469	10.6	77	0.02
8	C	bromomethane	5.000	4.911	1.8	87	0.02
9	C	chloroethane	5.000	4.901	2.0	87	0.02
10		ethanol	25.000	24.174	3.3	81	0.02
11	C	vinyl bromide	5.000	4.675	6.5	83	0.02
12	C	acrolein	5.000	3.701	26.0	76	0.02
13		acetone	25.000	21.153	15.4	80	0.02
14		trichlorofluoromethane	5.000	5.369	-7.4	97	0.03
15		isopropyl alcohol	12.500	8.803	29.6	62	0.02
16	C	acrylonitrile	5.000	4.505	9.9	84	0.02
17	C	1,1-dichloroethene	5.000	5.047	-0.9	88	0.02
18		tertiary butyl alcohol	5.000	4.001	20.0	72	0.02
19	C	methylene chloride	5.000	5.045	-0.9	92	0.02
20	C	3-chloropropene	5.000	4.432	11.4	77	0.02
21	C	carbon disulfide	5.000	4.175	16.5	73	0.02
22		Freon 113	5.000	4.748	5.0	83	0.02
23		trans-1,2-dichloroethene	5.000	4.695	6.1	81	0.03
24	C	1,1-dichloroethane	5.000	4.783	4.3	82	0.02
25	C	MTBE	5.000	4.153	16.9	70	0.02
26	C	vinyl acetate	5.000	3.716	25.7	66	0.03
27	C	2-butanone	5.000	4.169	16.6	73	0.02
28		cis-1,2-dichloroethene	5.000	4.639	7.2	81	0.03
29		Ethyl Acetate	5.000	4.741	5.2	83	0.03
30	C	chloroform	5.000	5.068	-1.4	88	0.03
31		Tetrahydrofuran	5.000	4.063	18.7	70	0.03
32	C	1,2-dichloroethane	5.000	5.091	-1.8	92	0.03
33	I	1,4-difluorobenzene	10.000	10.000	0.0	88	0.03
34	C	hexane	5.000	4.755	4.9	86	0.03
36	C	1,1,1-trichloroethane	5.000	5.399	-8.0	96	0.03
37	C	benzene	5.000	4.074	18.5	75	0.03
38	C	carbon tetrachloride	5.000	5.405	-8.1	96	0.02
39		cyclohexane	5.000	4.613	7.7	84	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-3,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		Dibromomethane	5.000	4.690	6.2	91	0.03
41	C	1,2-dichloropropane	5.000	4.356	12.9	81	0.03
42		bromodichloromethane	5.000	5.541	-10.8	97	0.03
43	C	1,4-dioxane	5.000	4.346	13.1	78	0.03
44	C	trichloroethene	5.000	4.843	3.1	84	0.03
45	C	2,2,4-trimethylpentane	5.000	4.599	8.0	87	0.03
46		heptane	5.000	4.241	15.2	75	0.03
47	C	cis-1,3-dichloropropene	5.000	4.051	19.0	68	0.03
48	C	4-methyl-2-pentanone	5.000	4.140	17.2	73	0.02
49		trans-1,3-dichloropropene	5.000	4.088	18.2	68	0.03
50	C	1,1,2-trichloroethane	5.000	4.723	5.5	82	0.02
51	I	chlorobenzene-D5	10.000	10.000	0.0	98	0.03
52	C	toluene	5.000	4.041	19.2	80	0.03
54		2-hexanone	5.000	3.580	28.4	67	0.02
55		dibromochloromethane	5.000	5.593	-11.9	104	0.02
56	C	1,2-dibromoethane	5.000	4.279	14.4	80	0.02
57	C	tetrachloroethene	5.000	4.212	15.8	83	0.02
58		1,1,1,2-tetrachloroethane	5.000	4.698	6.0	92	0.02
59	C	chlorobenzene	5.000	4.171	16.6	79	0.03
60	C	ethylbenzene	5.000	4.161	16.8	79	0.02
61	C	m+p-xylene	10.000	8.662	13.4	83	0.02
62	C	bromoform	5.000	5.915	-18.3	107	0.03
63	C	styrene	5.000	4.039	19.2	74	0.02
64	C	1,1,2,2-tetrachloroethane	5.000	4.600	8.0	87	0.02
65	C	o-xylene	5.000	4.378	12.4	84	0.02
66		1,2,3-Trichloropropane	5.000	3.938	21.2	80	0.02
68	C	isopropylbenzene	5.000	4.068	18.6	83	0.03
69		Bromobenzene	5.000	4.187	16.3	83	0.02
70		4-ethyl toluene	5.000	4.345	13.1	82	0.02
71		1,3,5-trimethylbenzene	5.000	4.768	4.6	89	0.03
72		tert-butylbenzene	5.000	4.188	16.2	85	0.02
73		1,2,4-trimethylbenzene	5.000	4.236	15.3	78	0.02
74	C	Benzyl Chloride	5.000	3.865	22.7	73	0.02
75		1,3-dichlorobenzene	5.000	4.625	7.5	84	0.02
76	C	1,4-dichlorobenzene	5.000	4.703	5.9	85	0.02
77		sec-butylbenzene	5.000	3.929	21.4	80	0.02
78		p-isopropyltoluene	5.000	3.813	23.7	78	0.02
79		1,2-dichlorobenzene	5.000	4.443	11.1	84	0.03

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-3,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.064	18.7	83	0.03
81	1,2-dibromo-3-chloropropane	5.000	4.342	13.2	82	0.02
82 C	1,2,4-trichlorobenzene	5.000	3.465	30.7#	63	0.02
83	naphthalene	5.000	3.352	33.0#	72	0.03
84	1,2,3-trichlorobenzene	5.000	3.734	25.3	81	0.03
85 C	hexachlorobutadiene	5.000	4.344	13.1	83	0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-3,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	116	0.02
2		propylene	5.000	0.876	82.5#	21	0.01
3		dichlorodifluoromethane	5.000	4.846	3.1	114	0.01
4	C	chloromethane	5.000	4.052	19.0	99	0.02
5		Freon-114	5.000	4.644	7.1	110	0.02
6	C	vinyl chloride	5.000	4.850	3.0	115	0.01
7	C	1,3-butadiene	5.000	4.733	5.3	116	0.01
8	C	bromomethane	5.000	4.896	2.1	117	0.02
9	C	chloroethane	5.000	5.719	-14.4	138	0.02
10		ethanol	25.000	20.996	16.0	106	0.02
11	C	vinyl bromide	5.000	3.527	29.5	86	0.02
12	C	acrolein	5.000	4.137	17.3	103	0.02
13		acetone	25.000	20.983	16.1	104	0.02
14		trichlorofluoromethane	5.000	4.345	13.1	103	0.02
15		isopropyl alcohol	12.500	11.645	6.8	111	0.02
16	C	acrylonitrile	5.000	4.578	8.4	111	0.02
17	C	1,1-dichloroethene	5.000	4.426	11.5	104	0.02
18		tertiary butyl alcohol	5.000	5.123	-2.5	120	0.02
19	C	methylene chloride	5.000	4.890	2.2	115	0.02
20	C	3-chloropropene	5.000	4.099	18.0	100	0.02
21	C	carbon disulfide	5.000	3.499	30.0#	89	0.02
22		Freon 113	5.000	4.027	19.5	97	0.02
23		trans-1,2-dichloroethene	5.000	4.022	19.6	96	0.02
24	C	1,1-dichloroethane	5.000	3.977	20.5	95	0.02
25	C	MTBE	5.000	3.828	23.4	93	0.02
26	C	vinyl acetate	5.000	4.014	19.7	98	0.02
27	C	2-butanone	5.000	4.067	18.7	101	0.02
28		cis-1,2-dichloroethene	5.000	4.202	16.0	100	0.03
29		Ethyl Acetate	5.000	4.228	15.4	100	0.02
30	C	chloroform	5.000	4.457	10.9	108	0.02
31		Tetrahydrofuran	5.000	3.814	23.7	93	0.02
32	C	1,2-dichloroethane	5.000	4.231	15.4	102	0.02
33	I	1,4-difluorobenzene	10.000	10.000	0.0	97	0.01
34	C	hexane	5.000	5.509	-10.2	107	0.02
36	C	1,1,1-trichloroethane	5.000	5.646	-12.9	106	0.02
37	C	benzene	5.000	4.788	4.2	94	0.02
38	C	carbon tetrachloride	5.000	5.550	-11.0	105	0.01
39		cyclohexane	5.000	5.570	-11.4	109	0.01

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-3,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		Dibromomethane	5.000	5.020	-0.4	102	0.01
41	C	1,2-dichloropropane	5.000	4.609	7.8	91	0.01
42		bromodichloromethane	5.000	5.740	-14.8	111	0.00
43	C	1,4-dioxane	5.000	5.447	-8.9	113	0.01
44	C	trichloroethene	5.000	5.209	-4.2	101	0.01
45	C	2,2,4-trimethylpentane	5.000	5.445	-8.9	108	0.01
46		heptane	5.000	4.997	0.1	100	0.00
47	C	cis-1,3-dichloropropene	5.000	5.038	-0.8	96	0.00
48	C	4-methyl-2-pentanone	5.000	5.129	-2.6	99	0.02
49		trans-1,3-dichloropropene	5.000	5.489	-9.8	99	0.00
50	C	1,1,2-trichloroethane	5.000	5.073	-1.5	97	0.00
51	I	chlorobenzene-D5	10.000	10.000	0.0	117	0.00
52	C	toluene	5.000	4.223	15.5	104	0.00
54		2-hexanone	5.000	3.972	20.6	95	0.00
55		dibromochloromethane	5.000	4.750	5.0	113	0.00
56	C	1,2-dibromoethane	5.000	3.791	24.2	90	0.00
57	C	tetrachloroethene	5.000	3.720	25.6	94	0.00
58		1,1,1,2-tetrachloroethane	5.000	4.498	10.0	104	0.00
59	C	chlorobenzene	5.000	3.650	27.0	91	0.00
60	C	ethylbenzene	5.000	4.270	14.6	102	0.00
61	C	m+p-xylene	10.000	8.798	12.0	103	0.00
62	C	bromoform	5.000	4.808	3.8	106	0.00
63	C	styrene	5.000	3.865	22.7	88	0.00
64	C	1,1,2,2-tetrachloroethane	5.000	4.383	12.3	105	0.00
65	C	o-xylene	5.000	4.404	11.9	105	0.00
66		1,2,3-Trichloropropane	5.000	3.609	27.8	90	0.00
68	C	isopropylbenzene	5.000	3.620	27.6	89	0.00
69		Bromobenzene	5.000	4.023	19.5	94	0.00
70		4-ethyl toluene	5.000	3.747	25.1	88	0.00
71		1,3,5-trimethylbenzene	5.000	3.855	22.9	92	0.00
72		tert-butylbenzene	5.000	3.840	23.2	93	0.00
73		1,2,4-trimethylbenzene	5.000	3.847	23.1	90	0.00
74	C	Benzyl Chloride	5.000	5.545	-10.9	111	0.00
75		1,3-dichlorobenzene	5.000	4.252	15.0	91	0.00
76	C	1,4-dichlorobenzene	5.000	4.510	9.8	91	0.00
77		sec-butylbenzene	5.000	3.537	29.3	86	0.00
78		p-isopropyltoluene	5.000	3.595	28.1	86	0.00
79		1,2-dichlorobenzene	5.000	3.986	20.3	90	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-3,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.299	14.0	101	0.00
81	1,2-dibromo-3-chloropropane	5.000	4.833	3.3	92	0.00
82 C	1,2,4-trichlorobenzene	5.000	4.872	2.6	88	0.00
83	naphthalene	5.000	4.532	9.4	89	0.00
84	1,2,3-trichlorobenzene	5.000	4.303	13.9	88	0.00
85 C	hexachlorobutadiene	5.000	4.400	12.0	97	0.00

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 1

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-3,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	bromochloromethane	10.000	10.000	0.0	102	-0.04
2		propylene	5.000	4.858	2.8	98	-0.02
3		dichlorodifluoromethane	5.000	4.806	3.9	92	-0.02
4	C	chloromethane	5.000	4.944	1.1	98	-0.02
5		Freon-114	5.000	5.418	-8.4	105	-0.02
6	C	vinyl chloride	5.000	5.316	-6.3	104	-0.02
7	C	1,3-butadiene	5.000	5.701	-14.0	113	-0.03
8	C	bromomethane	5.000	5.250	-5.0	106	-0.02
9	C	chloroethane	5.000	4.991	0.2	100	-0.02
10		ethanol	25.000	25.498	-2.0	102	-0.02
11	C	vinyl bromide	5.000	4.704	5.9	92	-0.03
12	C	acrolein	5.000	4.350	13.0	88	-0.03
13		acetone	25.000	19.496	22.0	80	-0.03
14		trichlorofluoromethane	5.000	4.535	9.3	90	-0.03
15		isopropyl alcohol	12.500	9.576	23.4	78	-0.03
16	C	acrylonitrile	5.000	4.564	8.7	94	-0.03
17	C	1,1-dichloroethene	5.000	4.402	12.0	87	-0.04
18		tertiary butyl alcohol	5.000	4.526	9.5	93	-0.03
19	C	methylene chloride	5.000	4.693	6.1	94	-0.04
20	C	3-chloropropene	5.000	4.204	15.9	85	-0.04
21	C	carbon disulfide	5.000	3.995	20.1	80	-0.04
22		Freon 113	5.000	3.849	23.0	79	-0.04
23		trans-1,2-dichloroethene	5.000	4.157	16.9	82	-0.04
24	C	1,1-dichloroethane	5.000	3.947	21.1	79	-0.03
25	C	MTBE	5.000	4.264	14.7	85	-0.04
26	C	vinyl acetate	5.000	3.711	25.8	77	-0.04
27	C	2-butanone	5.000	4.160	16.8	81	-0.03
28		cis-1,2-dichloroethene	5.000	4.202	16.0	83	-0.04
29		Ethyl Acetate	5.000	4.362	12.8	85	-0.03
30	C	chloroform	5.000	4.722	5.6	95	-0.04
31		Tetrahydrofuran	5.000	4.026	19.5	81	-0.03
32	C	1,2-dichloroethane	5.000	4.527	9.5	91	-0.04
33	I	1,4-difluorobenzene	10.000	10.000	0.0	88	-0.04
34	C	hexane	5.000	5.238	-4.8	89	-0.04
36	C	1,1,1-trichloroethane	5.000	5.265	-5.3	89	-0.04
37	C	benzene	5.000	4.399	12.0	78	-0.04
38	C	carbon tetrachloride	5.000	5.838	-16.8	96	-0.04
39		cyclohexane	5.000	5.249	-5.0	90	-0.04

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-3,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
40		Dibromomethane	5.000	5.010	-0.2	89	-0.04
41	C	1,2-dichloropropane	5.000	4.582	8.4	78	-0.04
42		bromodichloromethane	5.000	6.362	-27.2	104	-0.04
43	C	1,4-dioxane	5.000	5.412	-8.2	90	-0.04
44	C	trichloroethene	5.000	5.091	-1.8	85	-0.04
45	C	2,2,4-trimethylpentane	5.000	5.184	-3.7	95	-0.04
46		heptane	5.000	5.018	-0.4	87	-0.04
47	C	cis-1,3-dichloropropene	5.000	5.275	-5.5	82	-0.04
48	C	4-methyl-2-pentanone	5.000	5.232	-4.6	89	-0.04
49		trans-1,3-dichloropropene	5.000	5.826	-16.5	84	-0.03
50	C	1,1,2-trichloroethane	5.000	4.724	5.5	78	-0.04
51	I	chlorobenzene-D5	10.000	10.000	0.0	110	-0.03
52	C	toluene	5.000	3.819	23.6	82	-0.03
54		2-hexanone	5.000	4.318	13.6	88	-0.03
55		dibromochloromethane	5.000	5.620	-12.4	110	-0.03
56	C	1,2-dibromoethane	5.000	3.997	20.1	81	-0.03
57	C	tetrachloroethene	5.000	3.894	22.1	85	-0.03
58		1,1,1,2-tetrachloroethane	5.000	4.390	12.2	96	-0.03
59	C	chlorobenzene	5.000	3.951	21.0	84	-0.03
60	C	ethylbenzene	5.000	3.999	20.0	84	-0.03
61	C	m+p-xylene	10.000	8.536	14.6	88	-0.03
62	C	bromoform	5.000	5.890	-17.8	109	-0.03
63	C	styrene	5.000	4.191	16.2	81	-0.03
64	C	1,1,2,2-tetrachloroethane	5.000	4.729	5.4	97	-0.03
65	C	o-xylene	5.000	4.453	10.9	92	-0.03
66		1,2,3-Trichloropropane	5.000	4.289	14.2	94	-0.03
68	C	isopropylbenzene	5.000	4.187	16.3	93	-0.03
69		Bromobenzene	5.000	4.307	13.9	97	-0.02
70		4-ethyl toluene	5.000	4.692	6.2	90	-0.03
71		1,3,5-trimethylbenzene	5.000	4.542	9.2	91	-0.03
72		tert-butylbenzene	5.000	4.629	7.4	100	-0.02
73		1,2,4-trimethylbenzene	5.000	4.716	5.7	91	-0.02
74	C	Benzyl Chloride	5.000	5.511	-10.2	104	-0.02
75		1,3-dichlorobenzene	5.000	5.130	-2.6	94	-0.03
76	C	1,4-dichlorobenzene	5.000	5.243	-4.9	94	-0.02
77		sec-butylbenzene	5.000	4.303	13.9	92	-0.03
78		p-isopropyltoluene	5.000	4.389	12.2	94	-0.02
79		1,2-dichlorobenzene	5.000	4.746	5.1	93	0.00

Evaluate Continuing Calibration Report

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-3,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 60% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 140%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
80	n-butylbenzene	5.000	4.761	4.8	103	0.00
81	1,2-dibromo-3-chloropropane	5.000	5.220	-4.4	103	0.00
82 C	1,2,4-trichlorobenzene	5.000	5.169	-3.4	94	0.03
83	naphthalene	5.000	5.377	-7.5	114	0.03
84	1,2,3-trichlorobenzene	5.000	5.166	-3.3	111	0.03
85 C	hexachlorobutadiene	5.000	4.434	11.3	87	0.03

* Evaluation of CC level amount vs concentration.
(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-3,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

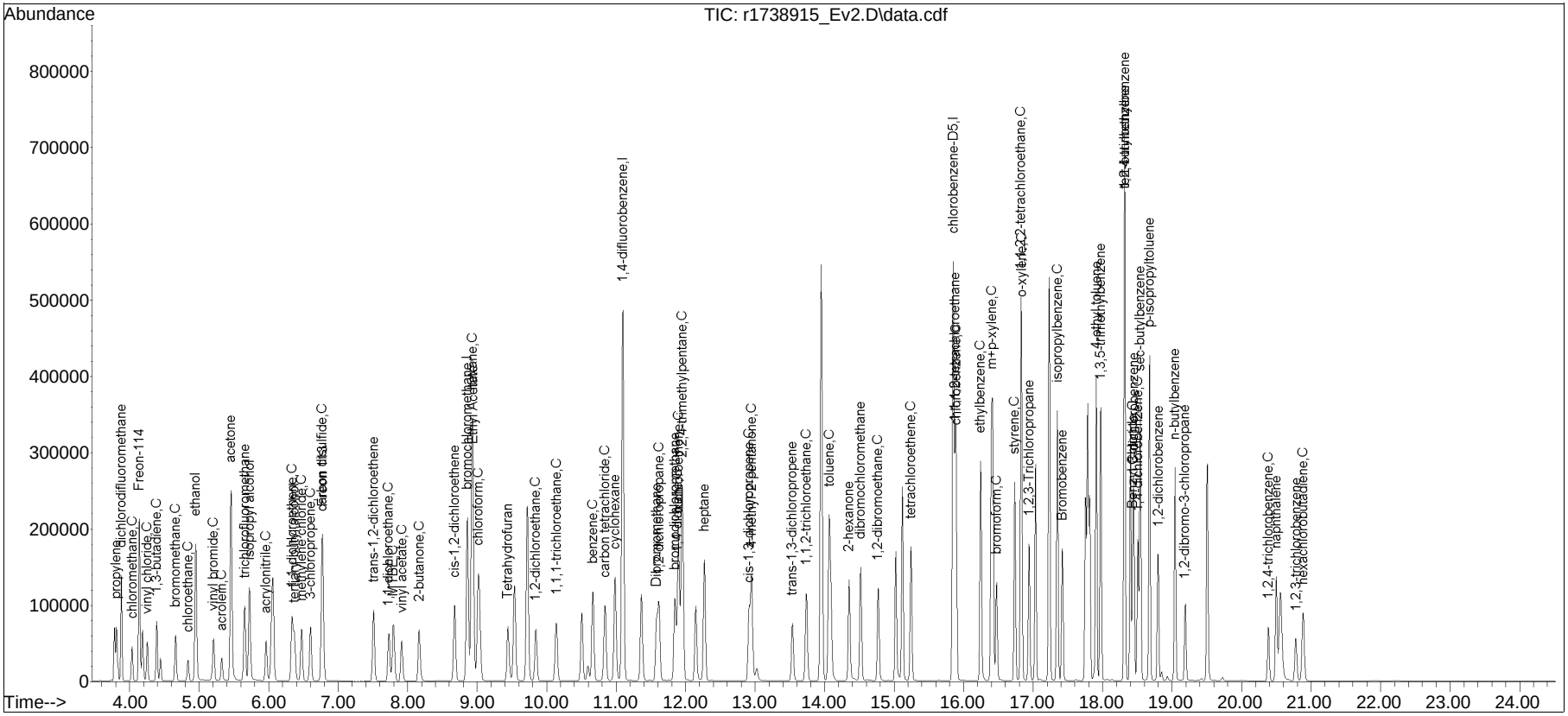
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.858	49	222593	10.000	ppbV	0.03
Standard Area = 222593			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.097	114	650953	10.000	ppbV	0.03
Standard Area = 650953			Recovery = 100.00%			
51) chlorobenzene-D5	15.850	54	90010	10.000	ppbV	0.03
Standard Area = 90010			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.252	62	57208	4.710	ppbV	100
17) 1,1-dichloroethene	6.336	61	78450	5.047	ppbV	97
28) cis-1,2-dichloroethene	8.675	61	71002	4.639	ppbV	97
36) 1,1,1-trichloroethane	10.142	97	98828	5.399	ppbV	99
38) carbon tetrachloride	10.837	117	97636	5.405	ppbV	97
44) trichloroethene	11.897	130	91886	4.843	ppbV	96
57) tetrachloroethene	15.242	166	89034	4.212	ppbV	96

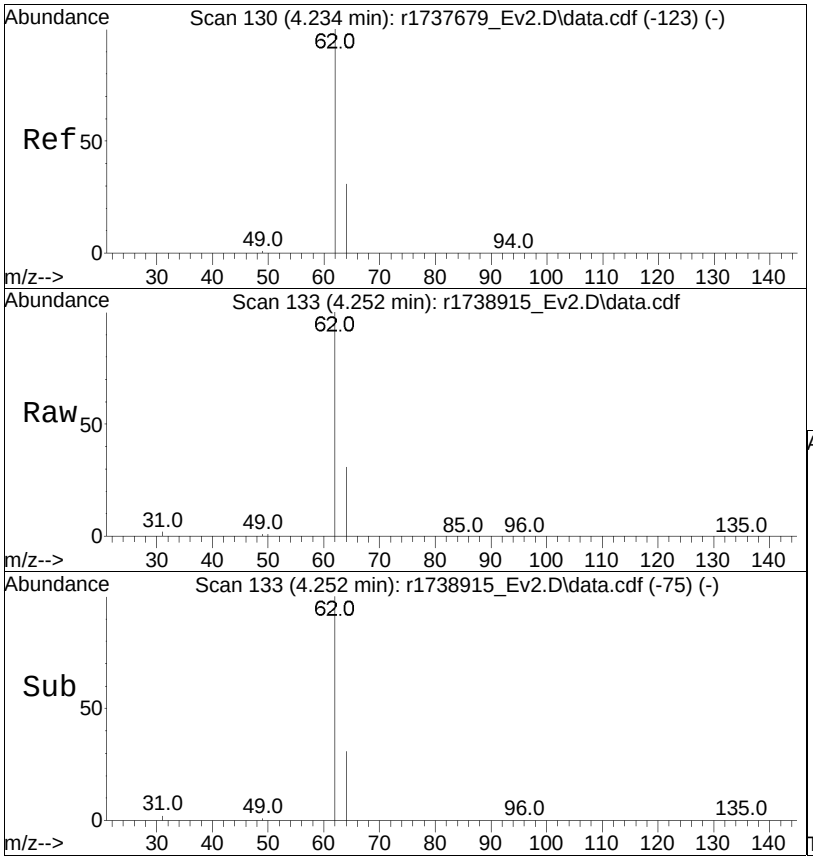
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed4SIM\r1738915_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738915_Ev2.D
Acq On : 24 Feb 2024 2:03 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-3,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 24 14:09:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

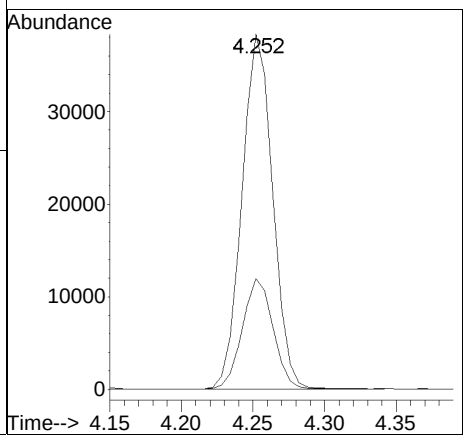


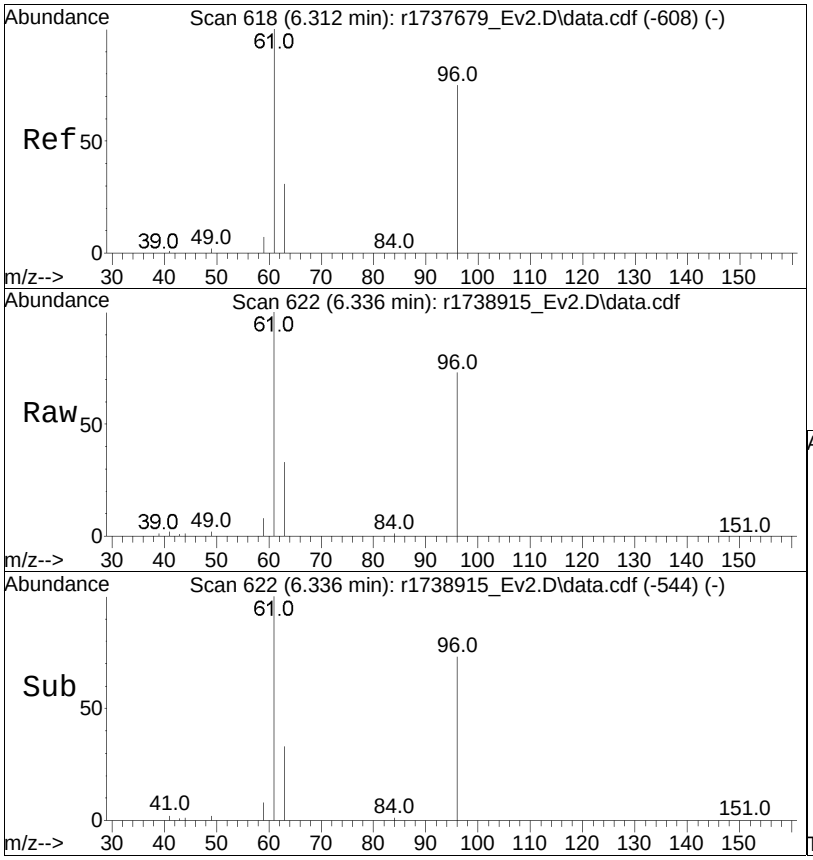


#6
vinyl chloride
Concen: 4.71 ppbV
RT: 4.252 min Scan# 133
Delta R.T. 0.018 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion: 62 Resp: 57208

Ion	Ratio	Lower	Upper
62	100		
64	31.2	24.8	37.2

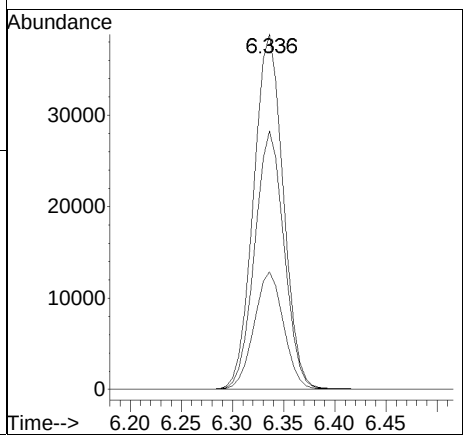


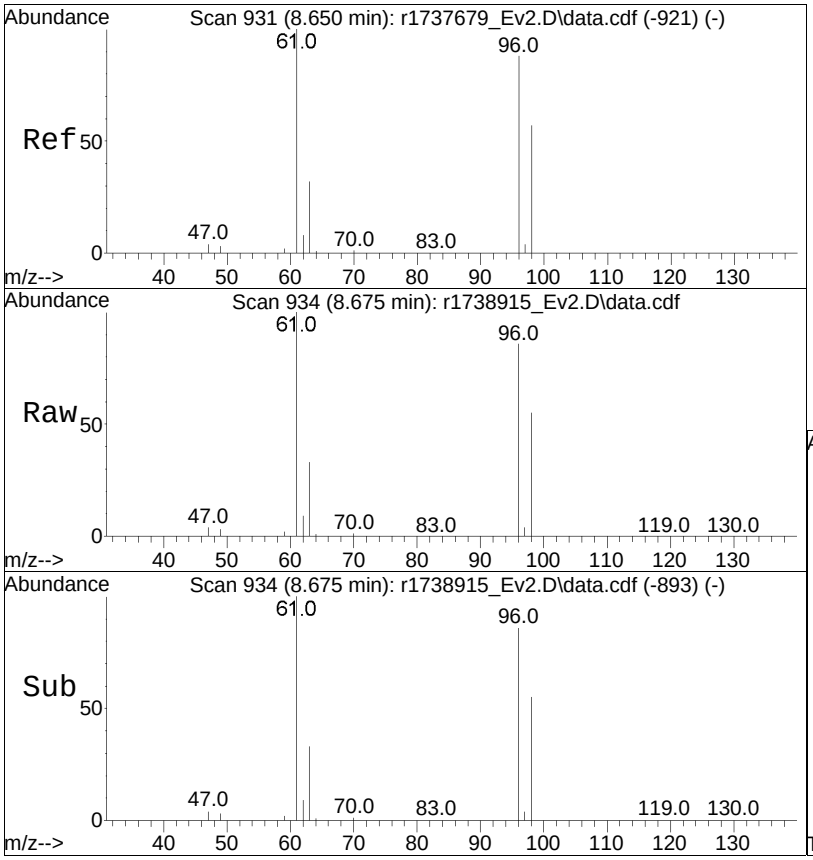


#17
1,1-dichloroethene
Concen: 5.05 ppbV
RT: 6.336 min Scan# 622
Delta R.T. 0.024 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion: 61 Resp: 78450

Ion	Ratio	Lower	Upper
61	100		
96	72.7	59.8	89.6
63	33.1	25.1	37.7

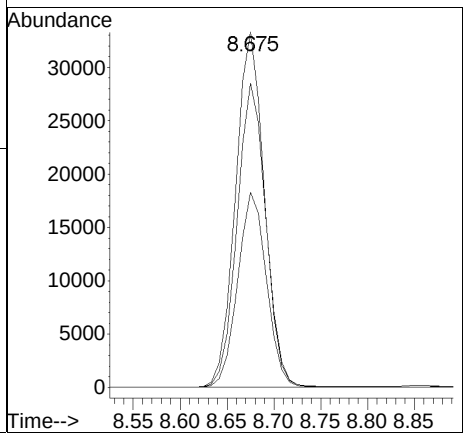


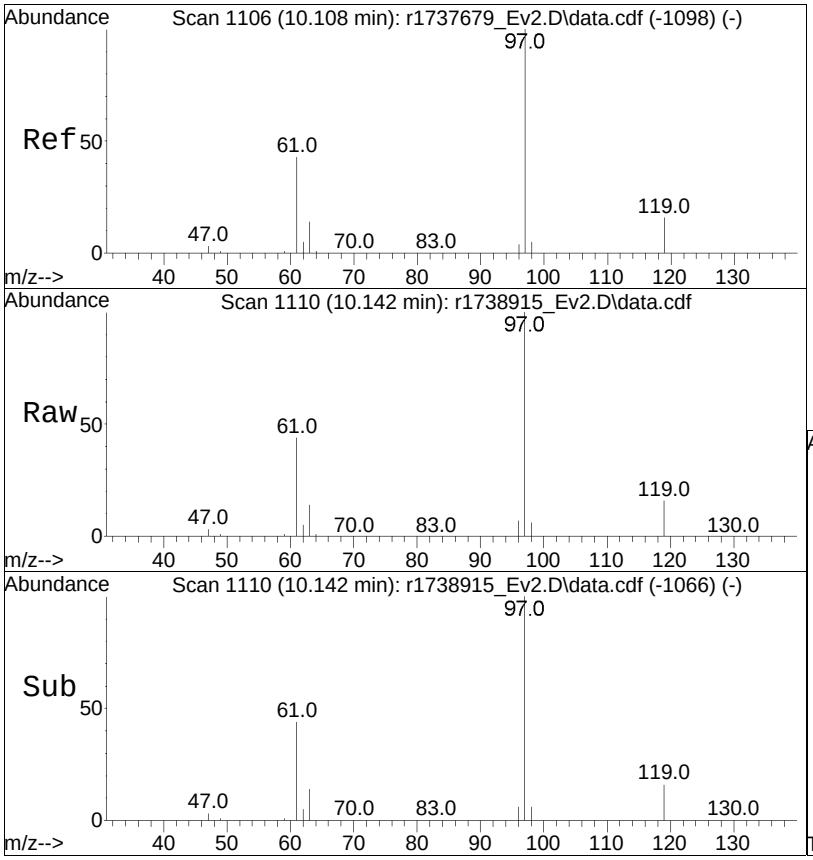


#28
cis-1,2-dichloroethene
Concen: 4.64 ppbV
RT: 8.675 min Scan# 934
Delta R.T. 0.025 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion: 61 Resp: 71002

Ion	Ratio	Lower	Upper
61	100		
96	85.6	70.8	106.2
98	54.9	45.8	68.8

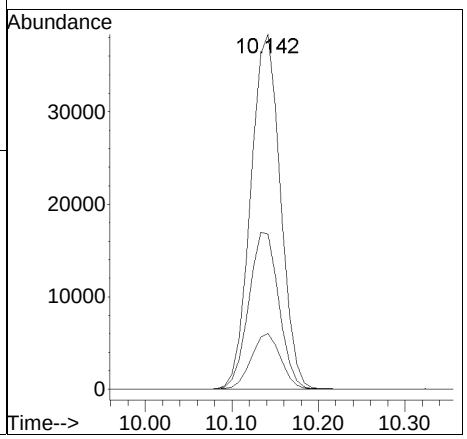


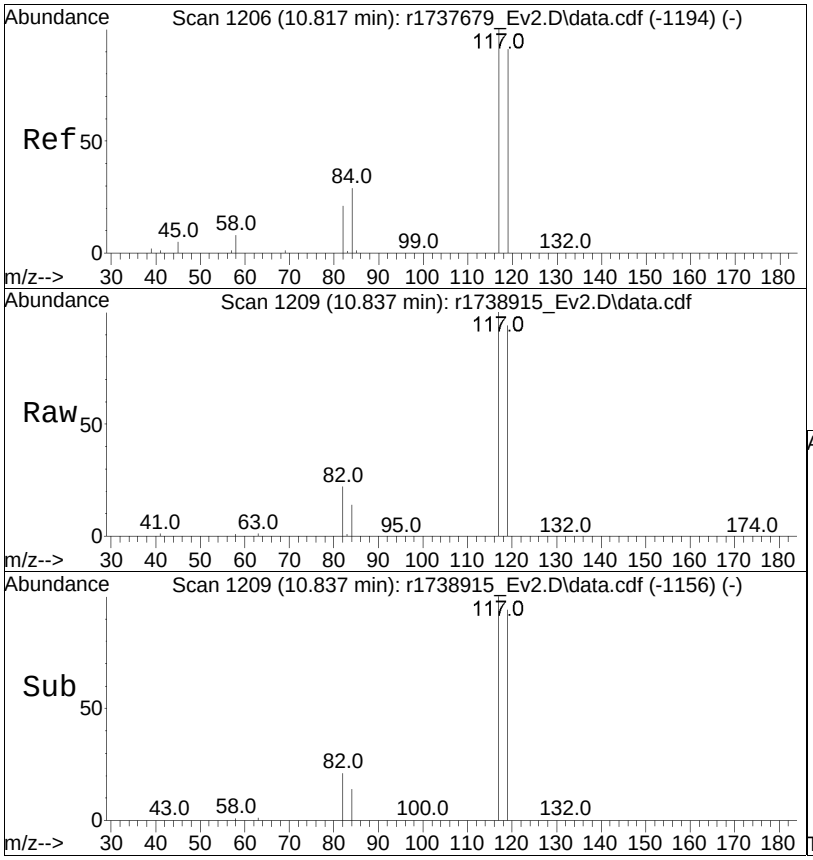


#36
1,1,1-trichloroethane
Concen: 5.40 ppbV
RT: 10.142 min Scan# 1110
Delta R.T. 0.033 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion: 97 Resp: 98828

Ion	Ratio	Lower	Upper
97	100		
61	43.7	34.2	51.2
119	15.7	12.9	19.3

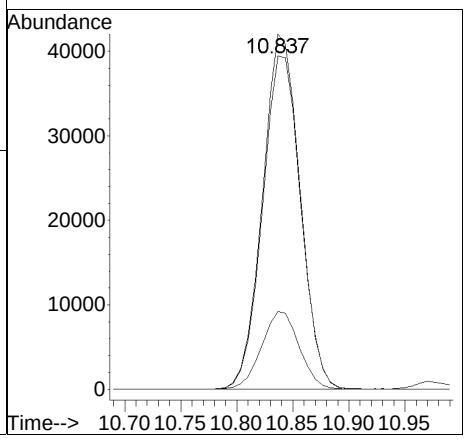


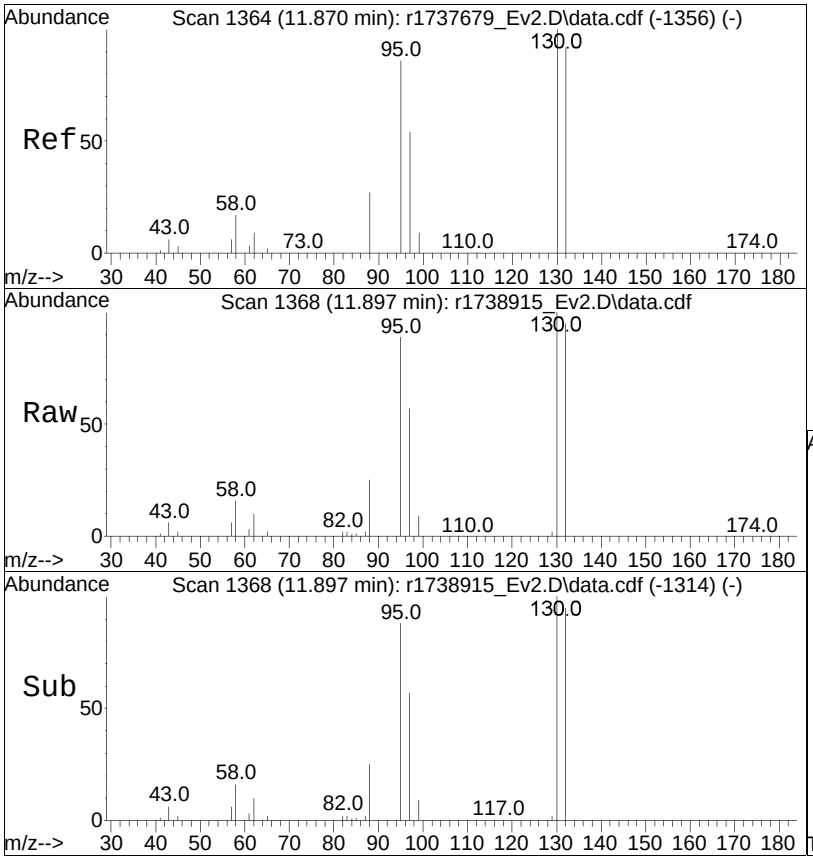


#38
carbon tetrachloride
Concen: 5.41 ppbV
RT: 10.837 min Scan# 1209
Delta R.T. 0.020 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion:117 Resp: 97636

Ion	Ratio	Lower	Upper
117	100		
119	93.8	73.0	109.4
82	22.0	16.8	25.2

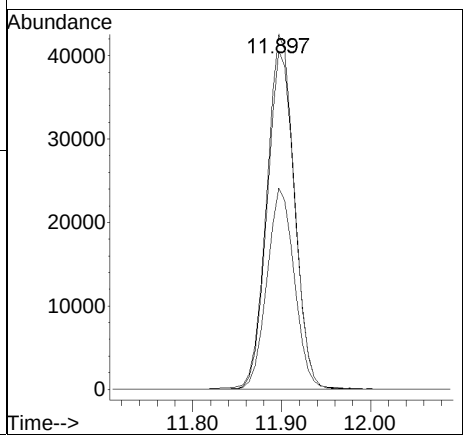


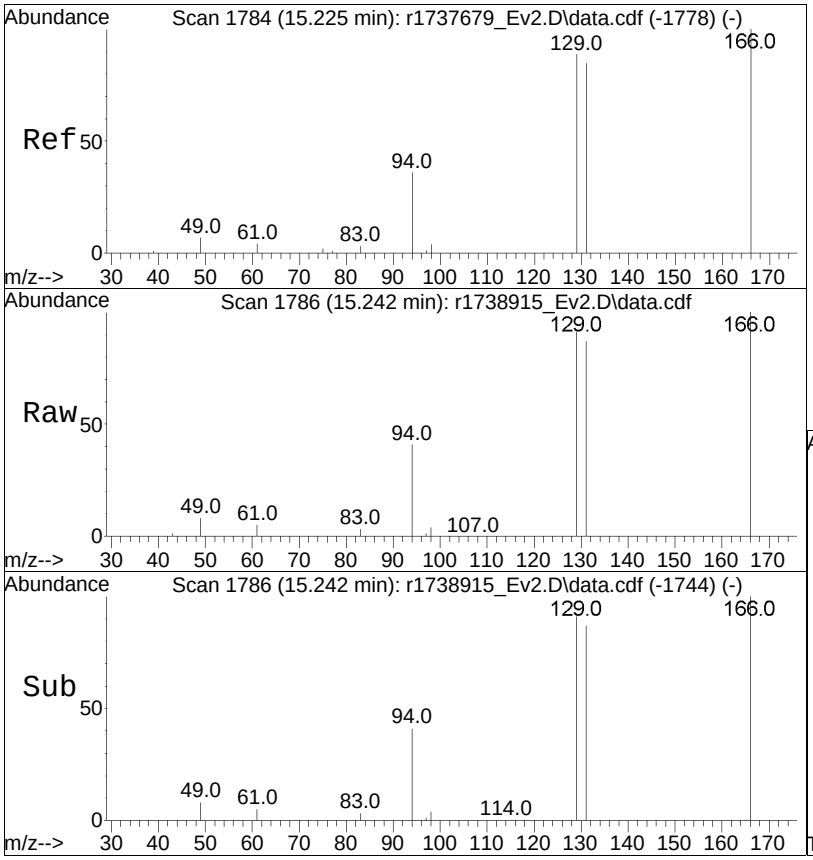


#44
trichloroethene
Concen: 4.84 ppbV
RT: 11.897 min Scan# 1368
Delta R.T. 0.027 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion:130 Resp: 91886

Ion	Ratio	Lower	Upper
130	100		
132	95.3	73.5	110.3
97	56.7	43.4	65.0

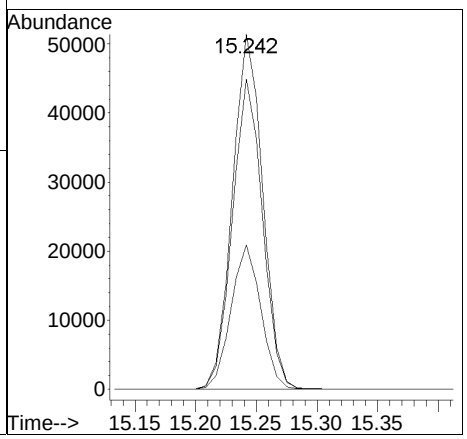




#57
tetrachloroethene
Concen: 4.21 ppbV
RT: 15.242 min Scan# 1786
Delta R.T. 0.017 min
Lab File: r1738915_Ev2.D
Acq: 24 Feb 2024 2:03 PM

Tgt Ion:166 Resp: 89034

Ion	Ratio	Lower	Upper
166	100		
131	87.4	68.3	102.5
94	40.7	28.9	43.3



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-3,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

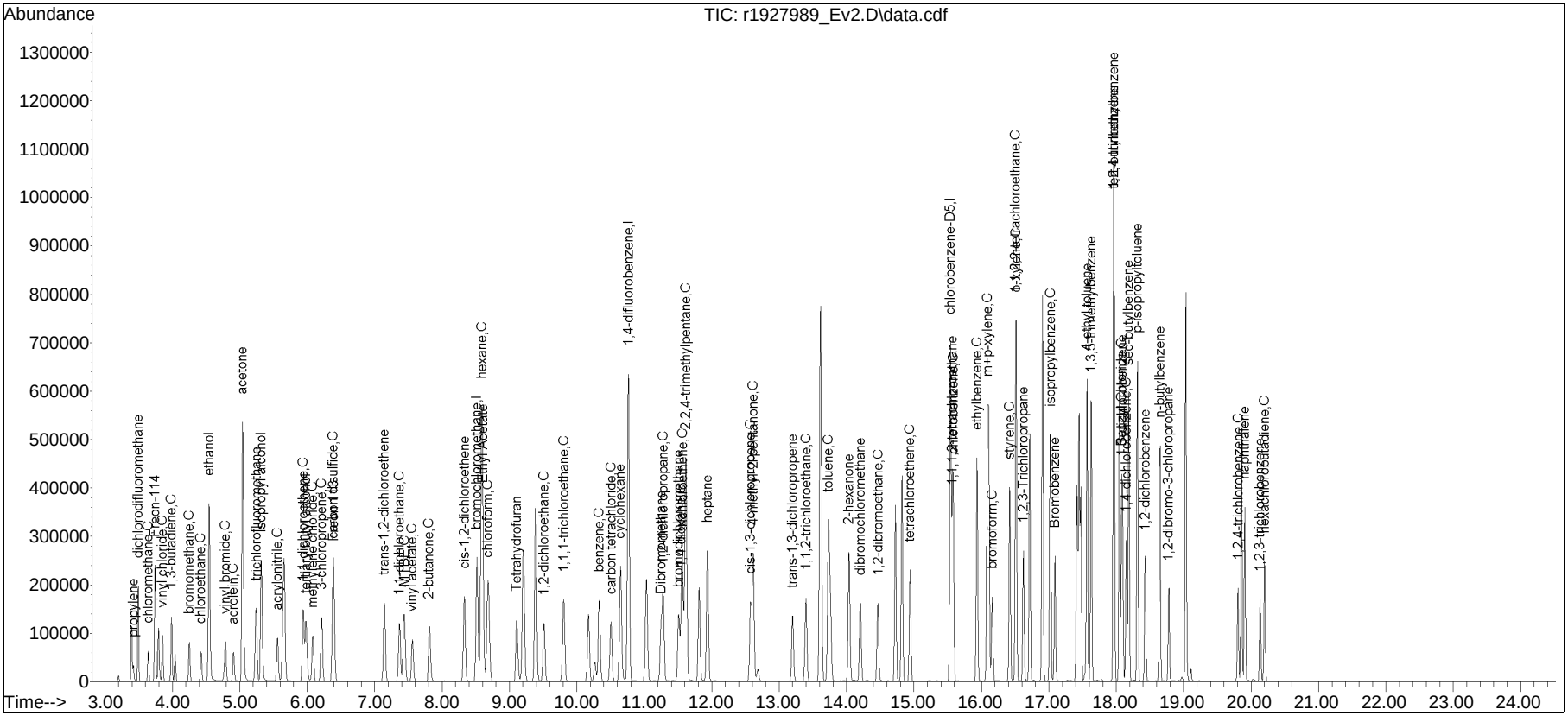
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.517	49	262028	10.000	ppbV	0.02
Standard Area = 262028			Recovery = 100.00%			
33) 1,4-difluorobenzene	10.767	114	725299	10.000	ppbV	0.01
Standard Area = 725299			Recovery = 100.00%			
51) chlorobenzene-D5	15.542	54	130584	10.000	ppbV	0.00
Standard Area = 130584			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	3.854	62	87088	4.850	ppbV	98
17) 1,1-dichloroethene	5.938	61	152028	4.426	ppbV	97
28) cis-1,2-dichloroethene	8.333	61	138718	4.202	ppbV	96
36) 1,1,1-trichloroethane	9.807	97	141991	5.646	ppbV	97
38) carbon tetrachloride	10.507	117	113960	5.550	ppbV	99
44) trichloroethene	11.567	130	107403	5.209	ppbV	97
57) tetrachloroethene	14.942	166	119001	3.720	ppbV	92

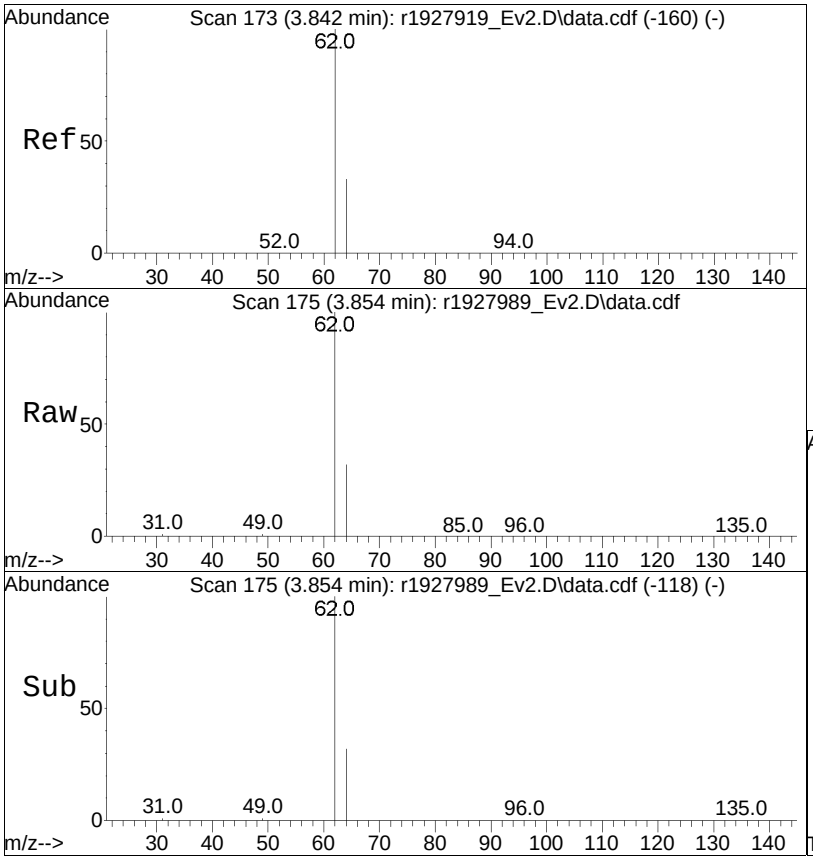
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed5SIM\r1927989_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927989_Ev2.D
Acq On : 25 Feb 2024 2:46 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-3,3,250,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 15:36:35 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

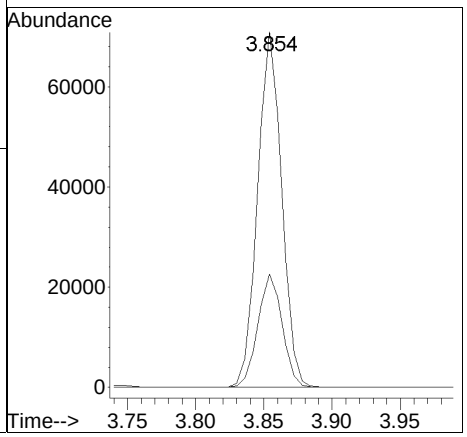


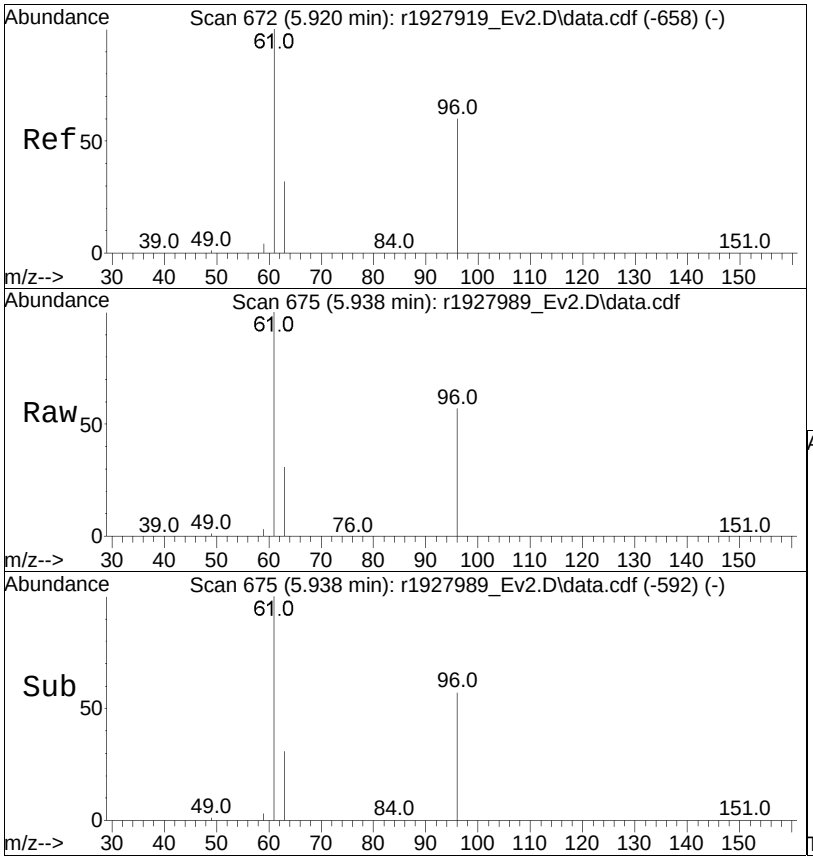


#6
vinyl chloride
Concen: 4.85 ppbV
RT: 3.854 min Scan# 175
Delta R.T. 0.012 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion: 62 Resp: 87088

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.6	39.8

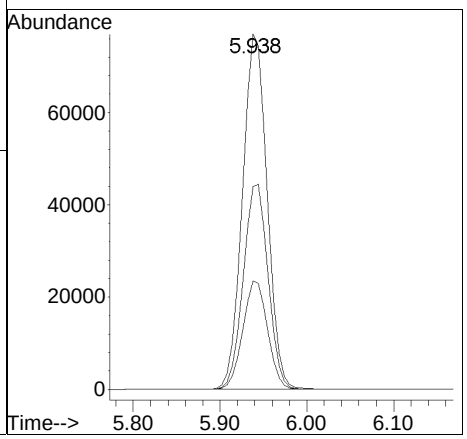


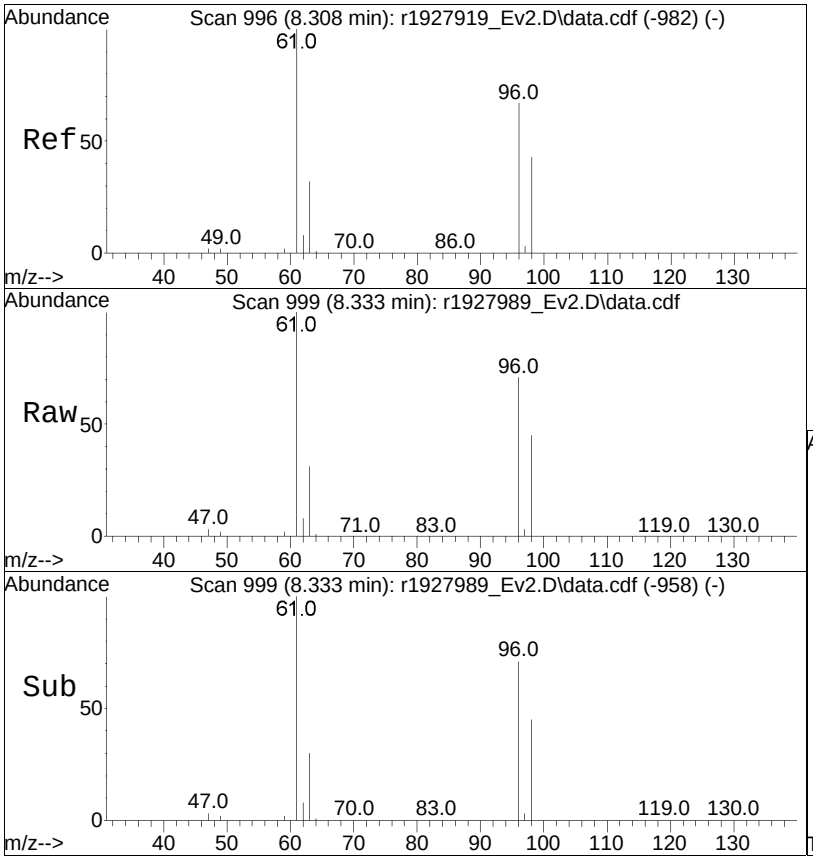


#17
1,1-dichloroethene
Concen: 4.43 ppbV
RT: 5.938 min Scan# 675
Delta R.T. 0.018 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion: 61 Resp: 152028

Ion	Ratio	Lower	Upper
61	100		
96	57.1	47.6	71.4
63	30.6	25.8	38.8

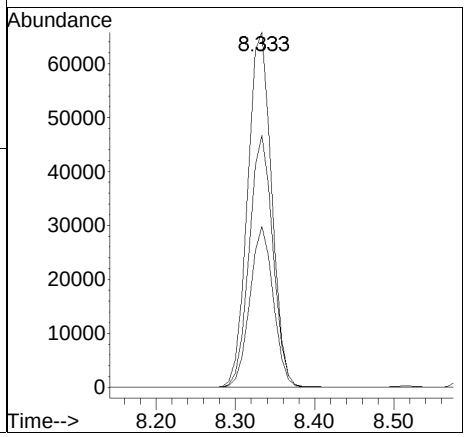


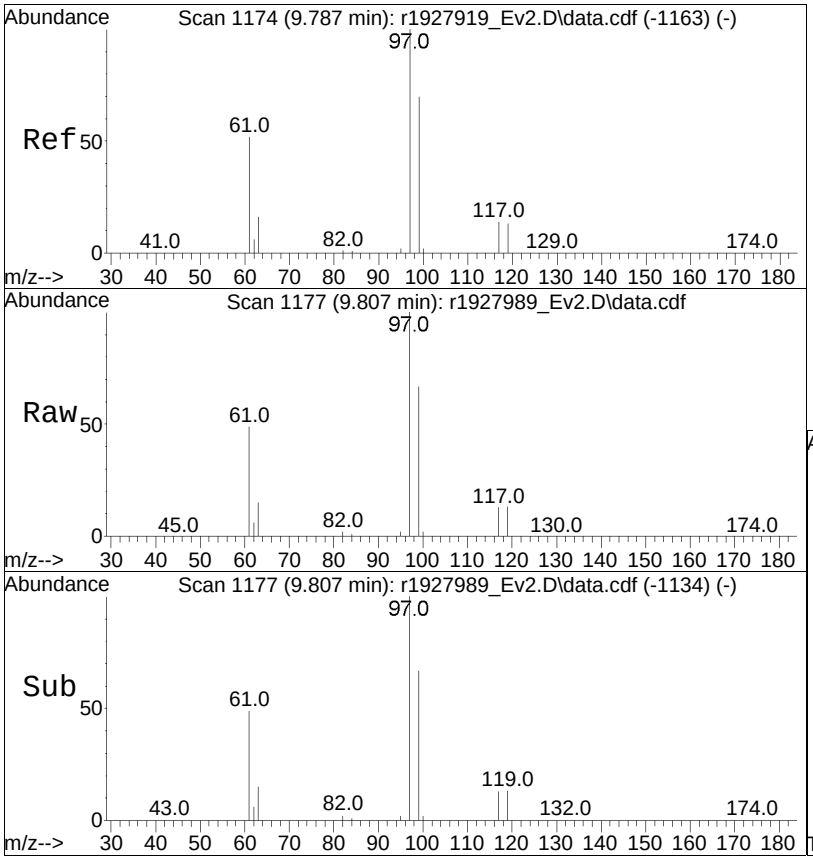


#28
cis-1,2-dichloroethene
Concen: 4.20 ppbV
RT: 8.333 min Scan# 999
Delta R.T. 0.025 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion: 61 Resp: 138718

Ion	Ratio	Lower	Upper
61	100		
96	70.9	53.7	80.5
98	45.3	34.6	51.8

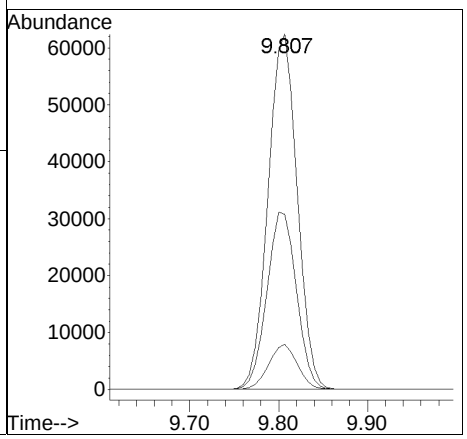


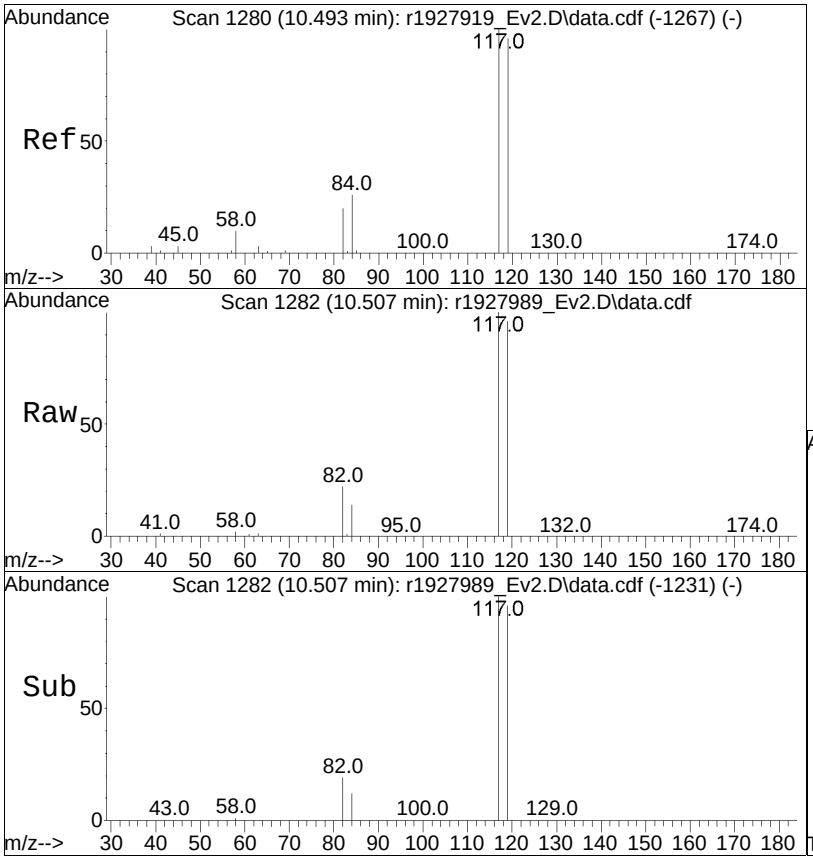


#36
1,1,1-trichloroethane
Concen: 5.65 ppbV
RT: 9.807 min Scan# 1177
Delta R.T. 0.020 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion: 97 Resp: 141991

Ion	Ratio	Lower	Upper
97	100		
61	49.3	41.3	61.9
119	12.7	10.6	15.8

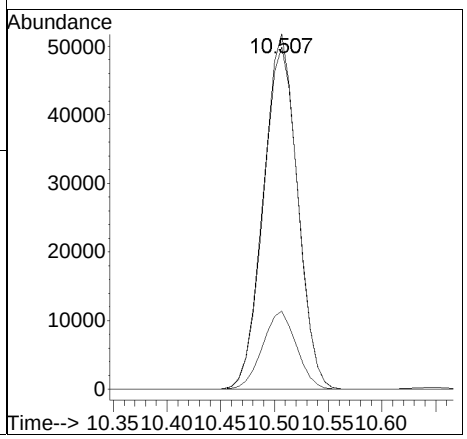


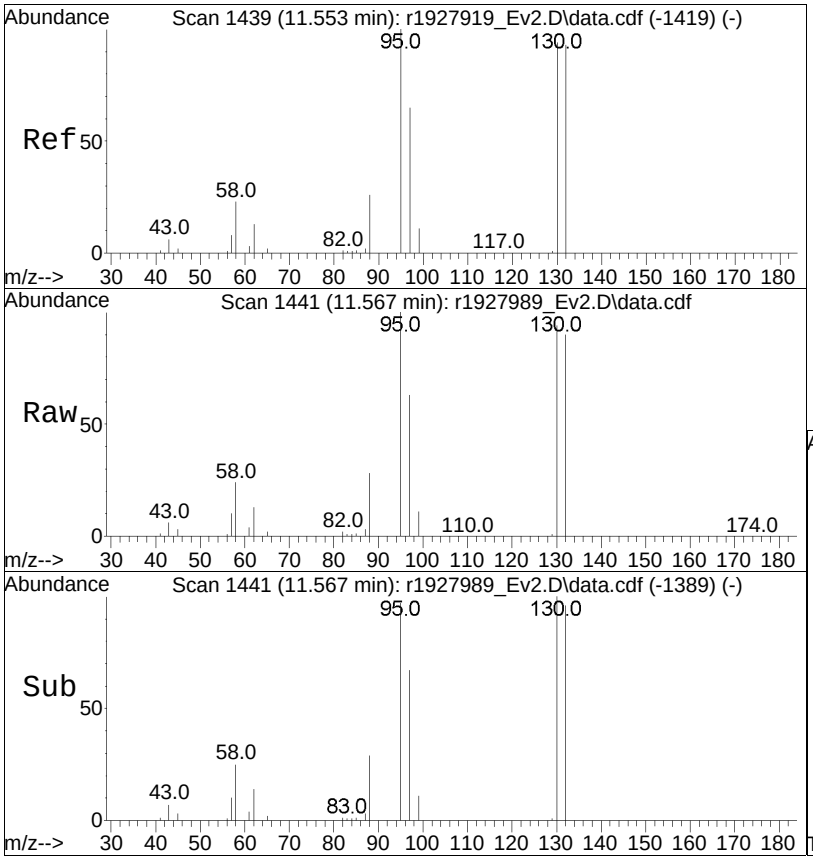


#38
carbon tetrachloride
Concen: 5.55 ppbV
RT: 10.507 min Scan# 1282
Delta R.T. 0.013 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion:117 Resp: 113960

Ion	Ratio	Lower	Upper
117	100		
119	96.4	76.5	114.7
82	22.1	16.1	24.1

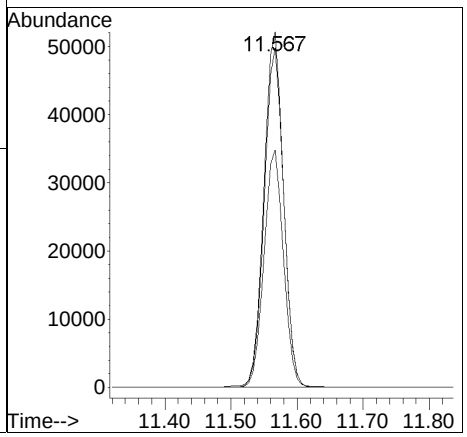


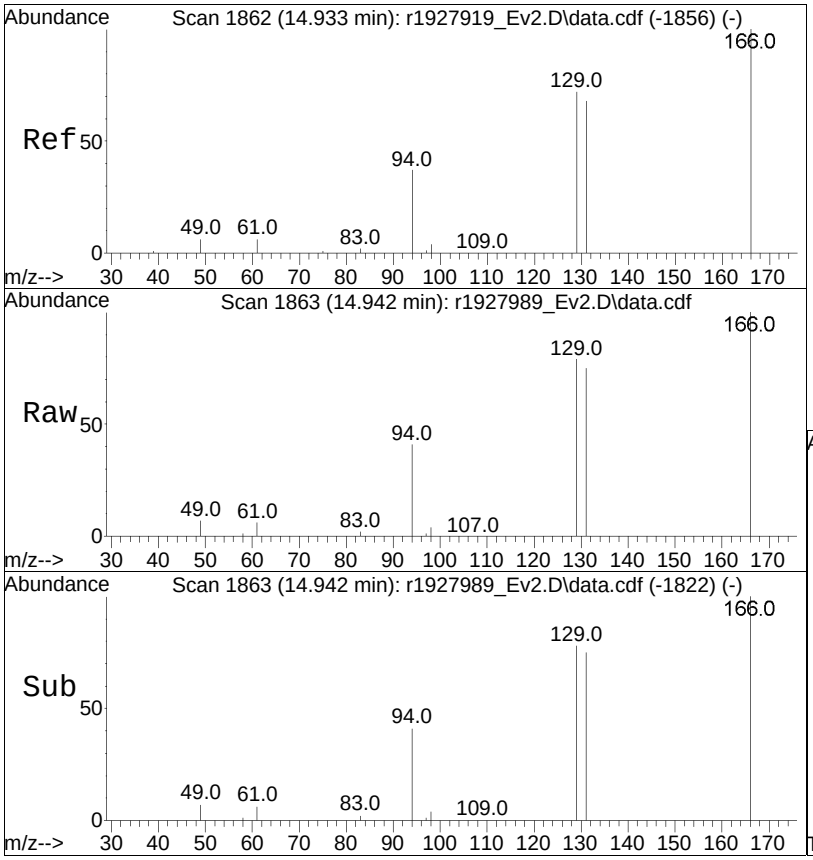


#44
trichloroethene
Concen: 5.21 ppbV
RT: 11.567 min Scan# 1441
Delta R.T. 0.013 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion:130 Resp: 107403

Ion	Ratio	Lower	Upper
130	100		
132	95.6	78.5	117.7
97	66.8	55.3	82.9

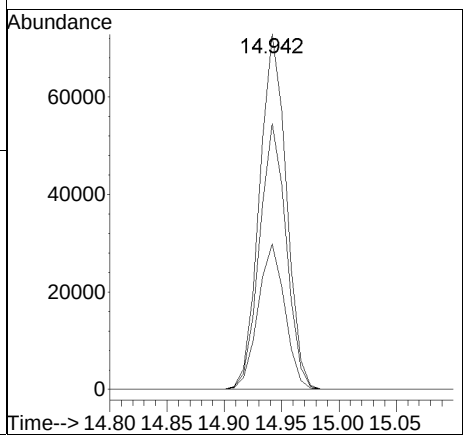




#57
tetrachloroethene
Concen: 3.72 ppbV
RT: 14.942 min Scan# 1863
Delta R.T. 0.008 min
Lab File: r1927989_Ev2.D
Acq: 25 Feb 2024 2:46 PM

Tgt Ion:166 Resp: 119001

Ion	Ratio	Lower	Upper
166	100		
131	74.9	54.0	81.0
94	40.9	29.7	44.5



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab19	QMethod	: TSIM19_240221.M
Data File	: r1927989_Ev2.D	Operator	: AIRLAB19:BJB
Date Inj'd	: 2/25/2020 0:2: 6	Instrument	:
Sample	: WG1889046-3,3,250,250	Quant Date	: 2/25/2024 3:36 pm

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-3,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : Default-LCS-AP2 - All compounds listed

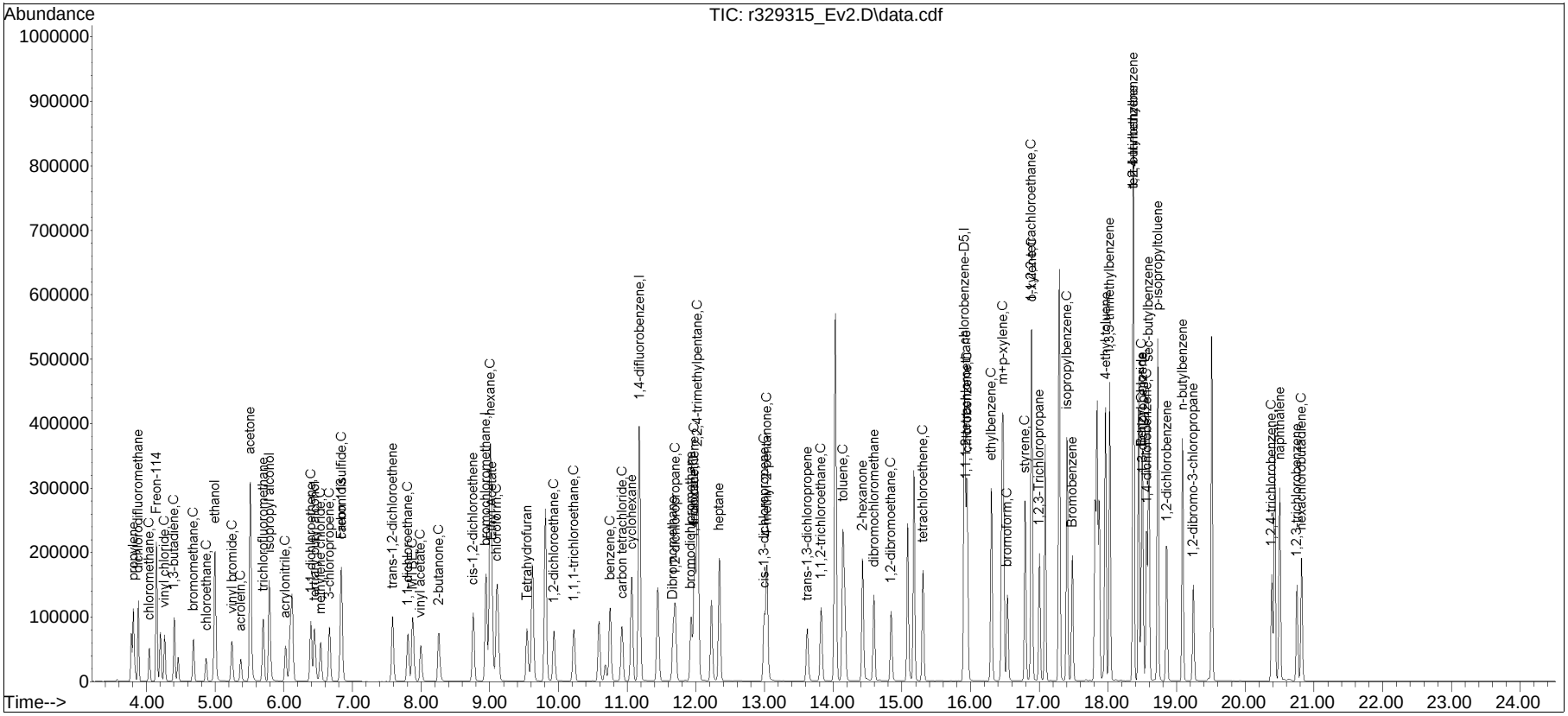
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	180634	10.000	ppbV	-0.04
Standard Area = 180634			Recovery = 100.00%			
33) 1,4-difluorobenzene	11.180	114	492655	10.000	ppbV	-0.04
Standard Area = 492655			Recovery = 100.00%			
51) chlorobenzene-D5	15.908	54	92375	10.000	ppbV	-0.03
Standard Area = 92375			Recovery = 100.00%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.266	62	80202	5.316	ppbV	99
17) 1,1-dichloroethene	6.394	61	98070	4.402	ppbV	94
28) cis-1,2-dichloroethene	8.758	61	89426	4.202	ppbV	93
36) 1,1,1-trichloroethane	10.225	97	94893	5.265	ppbV	99
38) carbon tetrachloride	10.927	117	84550	5.838	ppbV	99
44) trichloroethene	11.980	130	84123	5.091	ppbV	98
57) tetrachloroethene	15.308	166	100806	3.894	ppbV	96

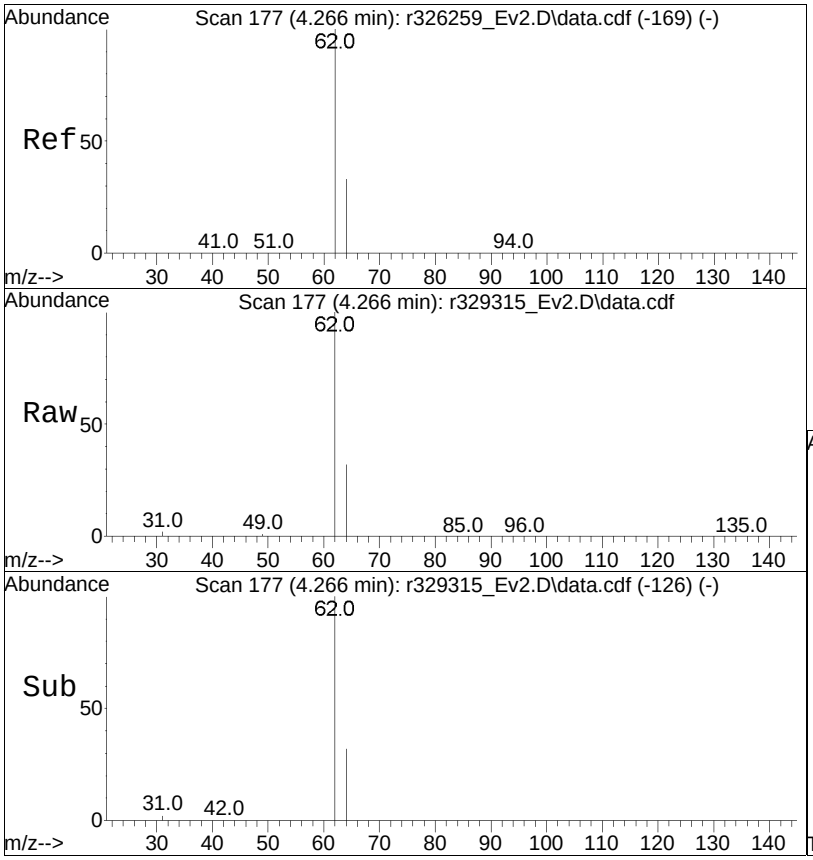
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : Default-LCS-AP2 - All compounds listed25SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329315_Ev2.D
Acq On : 25 Feb 2024 3:17 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-3,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 16:08:17 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

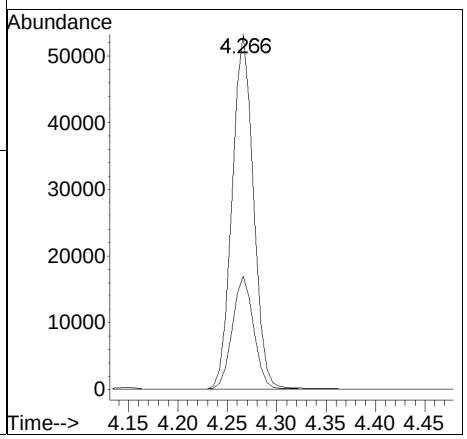


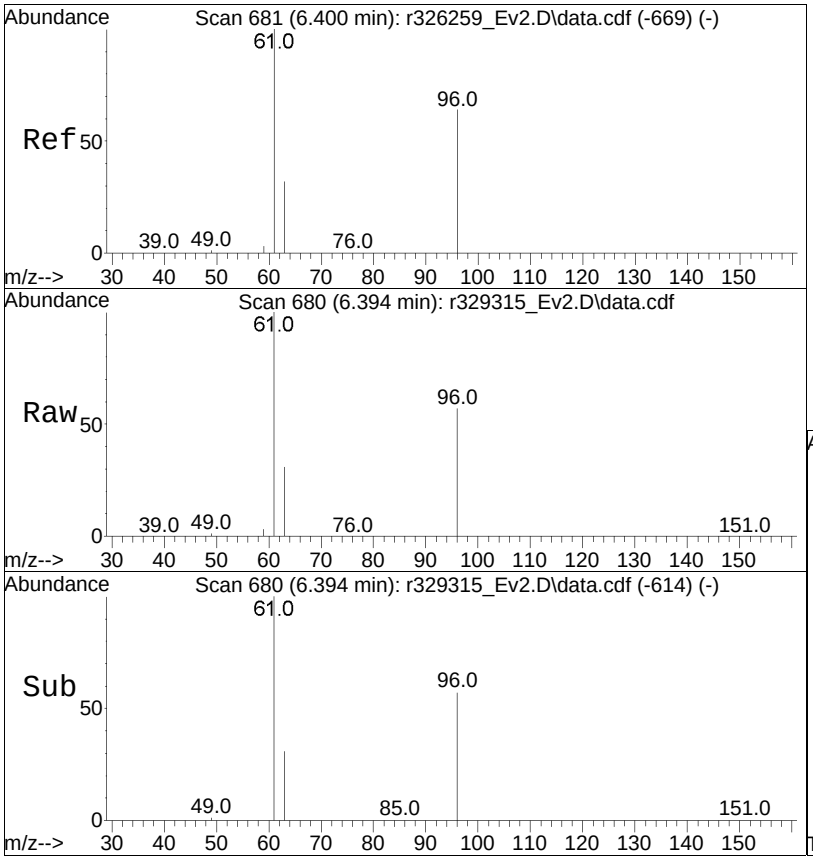


#6
vinyl chloride
Concen: 5.32 ppbV
RT: 4.266 min Scan# 177
Delta R.T. -0.024 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion: 62 Resp: 80202

Ion	Ratio	Lower	Upper
62	100		
64	31.9	26.2	39.2

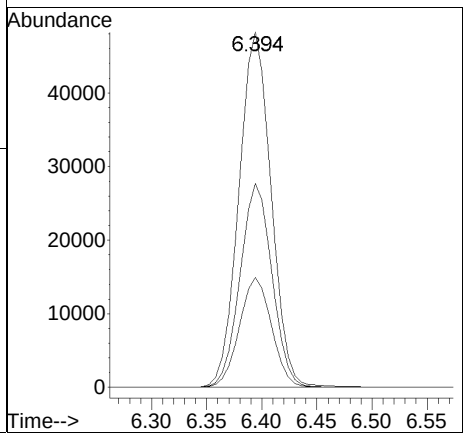


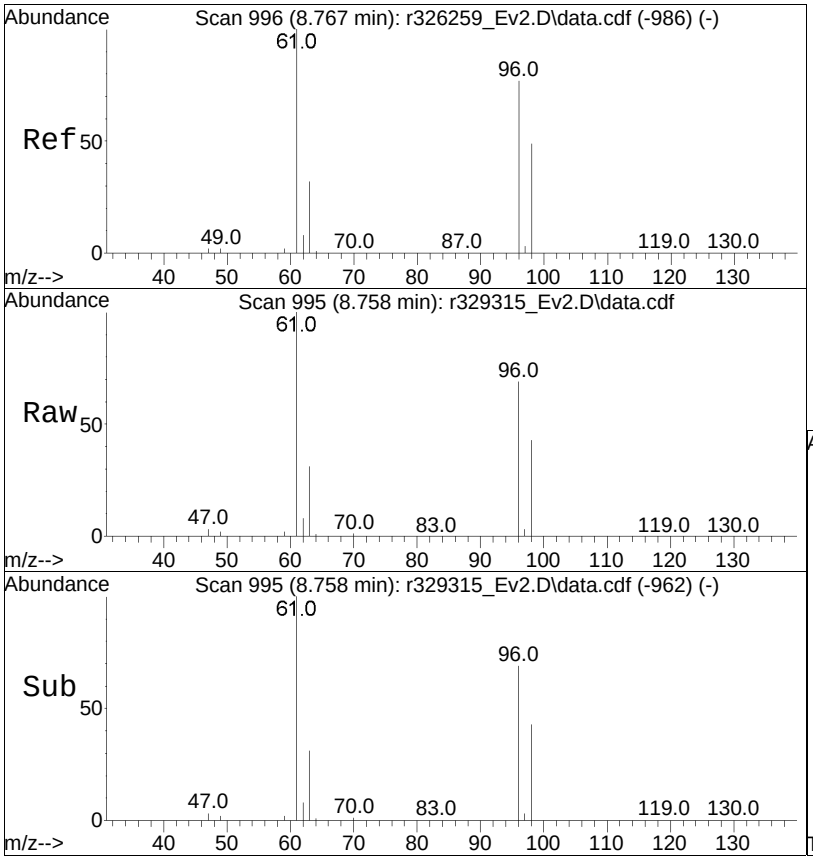


#17
1,1-dichloroethene
Concen: 4.40 ppbV
RT: 6.394 min Scan# 680
Delta R.T. -0.036 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion: 61 Resp: 98070

Ion	Ratio	Lower	Upper
61	100		
96	57.4	50.6	76.0
63	30.9	25.4	38.0

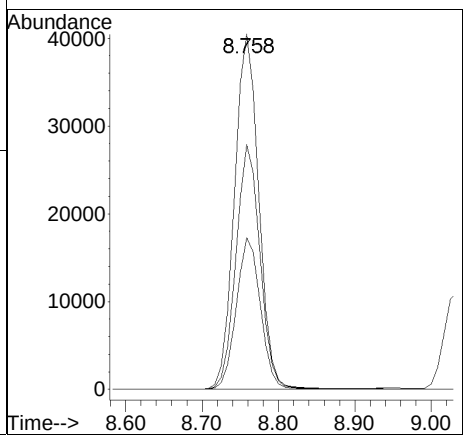


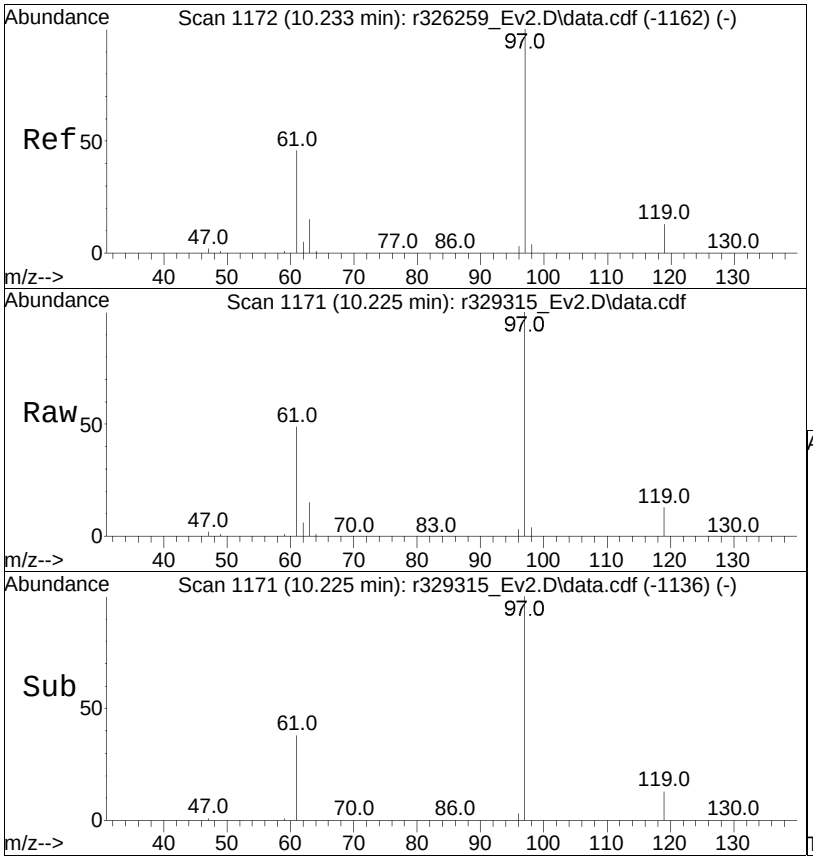


#28
cis-1,2-dichloroethene
Concen: 4.20 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion: 61 Resp: 89426

Ion	Ratio	Lower	Upper
61	100		
96	68.9	59.8	89.6
98	42.7	38.0	57.0

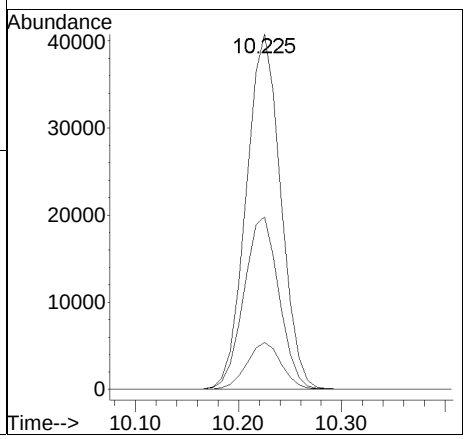


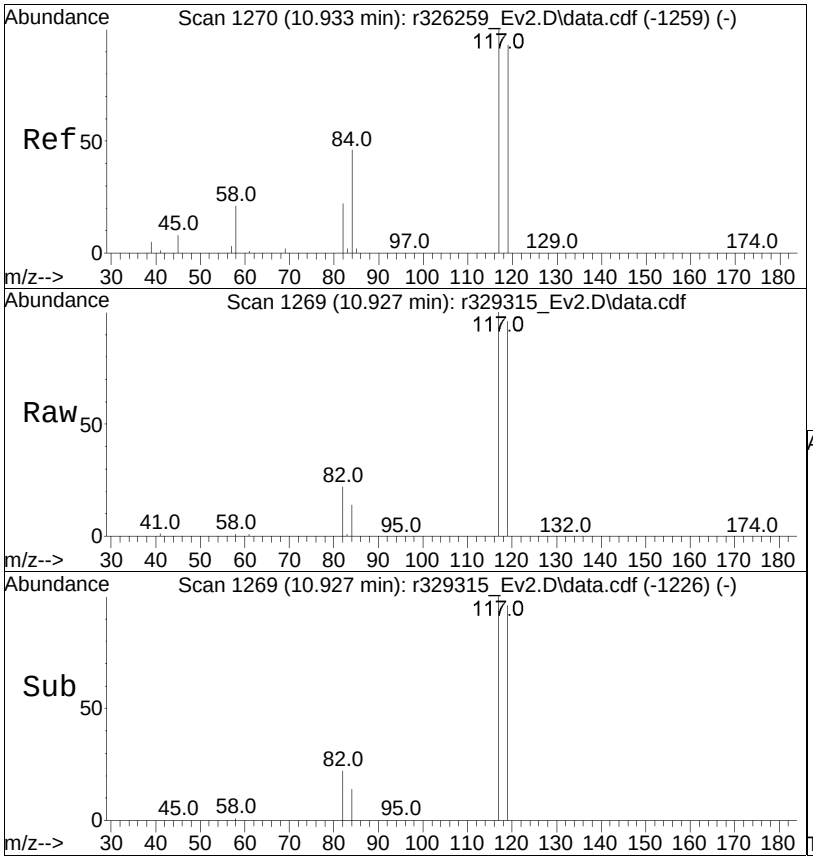


#36
1,1,1-trichloroethane
Concen: 5.27 ppbV
RT: 10.225 min Scan# 1171
Delta R.T. -0.042 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion: 97 Resp: 94893

Ion	Ratio	Lower	Upper
97	100		
61	48.6	38.2	57.2
119	13.2	10.8	16.2

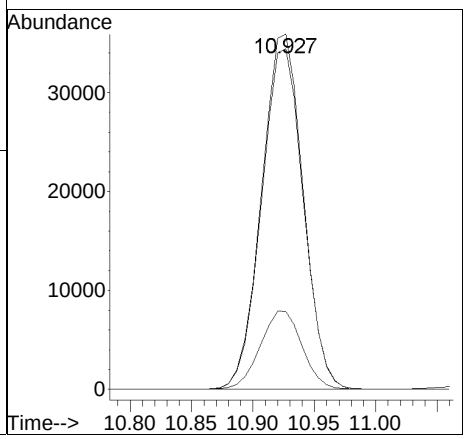


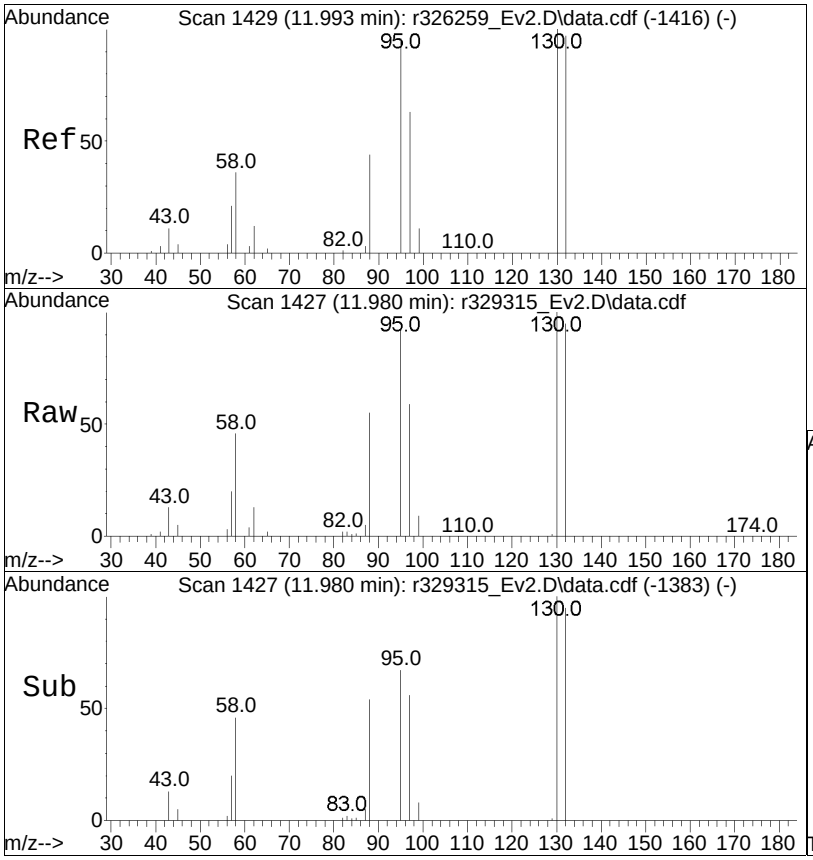


#38
carbon tetrachloride
Concen: 5.84 ppbV
RT: 10.927 min Scan# 1269
Delta R.T. -0.040 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion:117 Resp: 84550

Ion	Ratio	Lower	Upper
117	100		
119	95.9	75.5	113.3
82	22.0	17.8	26.8

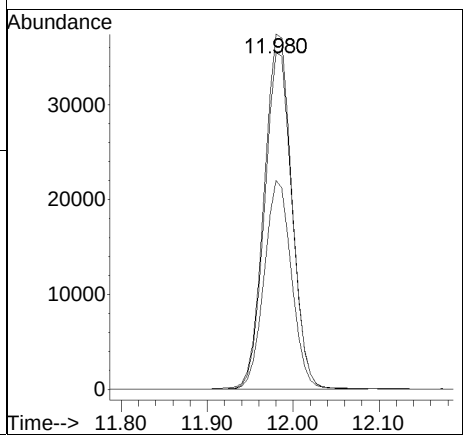


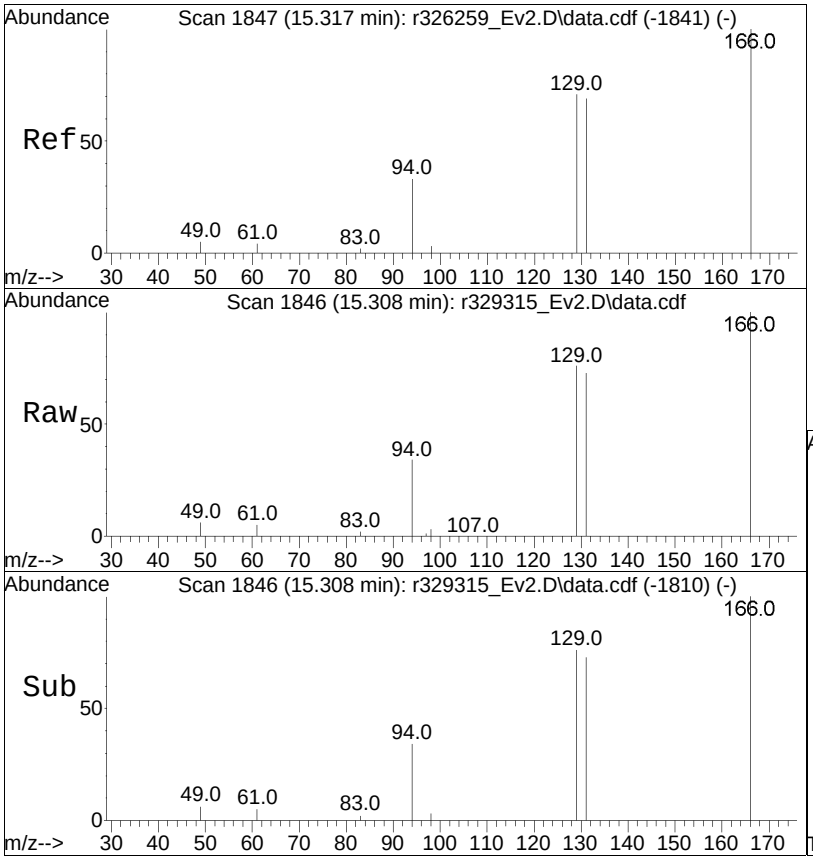


#44
trichloroethene
Concen: 5.09 ppbV
RT: 11.980 min Scan# 1427
Delta R.T. -0.040 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion:130 Resp: 84123

Ion	Ratio	Lower	Upper
130	100		
132	94.8	75.4	113.2
97	58.8	49.1	73.7

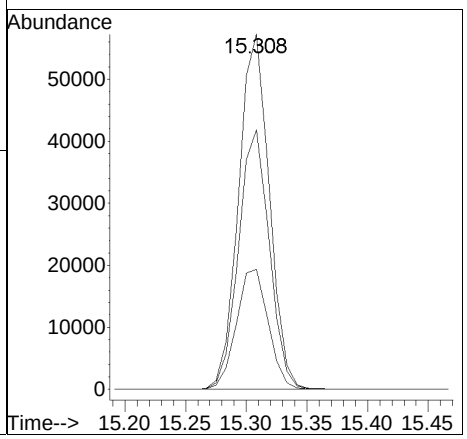




#57
tetrachloroethene
Concen: 3.89 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329315_Ev2.D
Acq: 25 Feb 2024 3:17 PM

Tgt Ion:166 Resp: 100806

Ion	Ratio	Lower	Upper
166	100		
131	73.1	55.4	83.2
94	33.8	25.3	37.9



Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738922_Ev2.D
Acq On : 24 Feb 2024 9:06 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-5,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:51:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D
Sub List : 7-NY-SIM - .

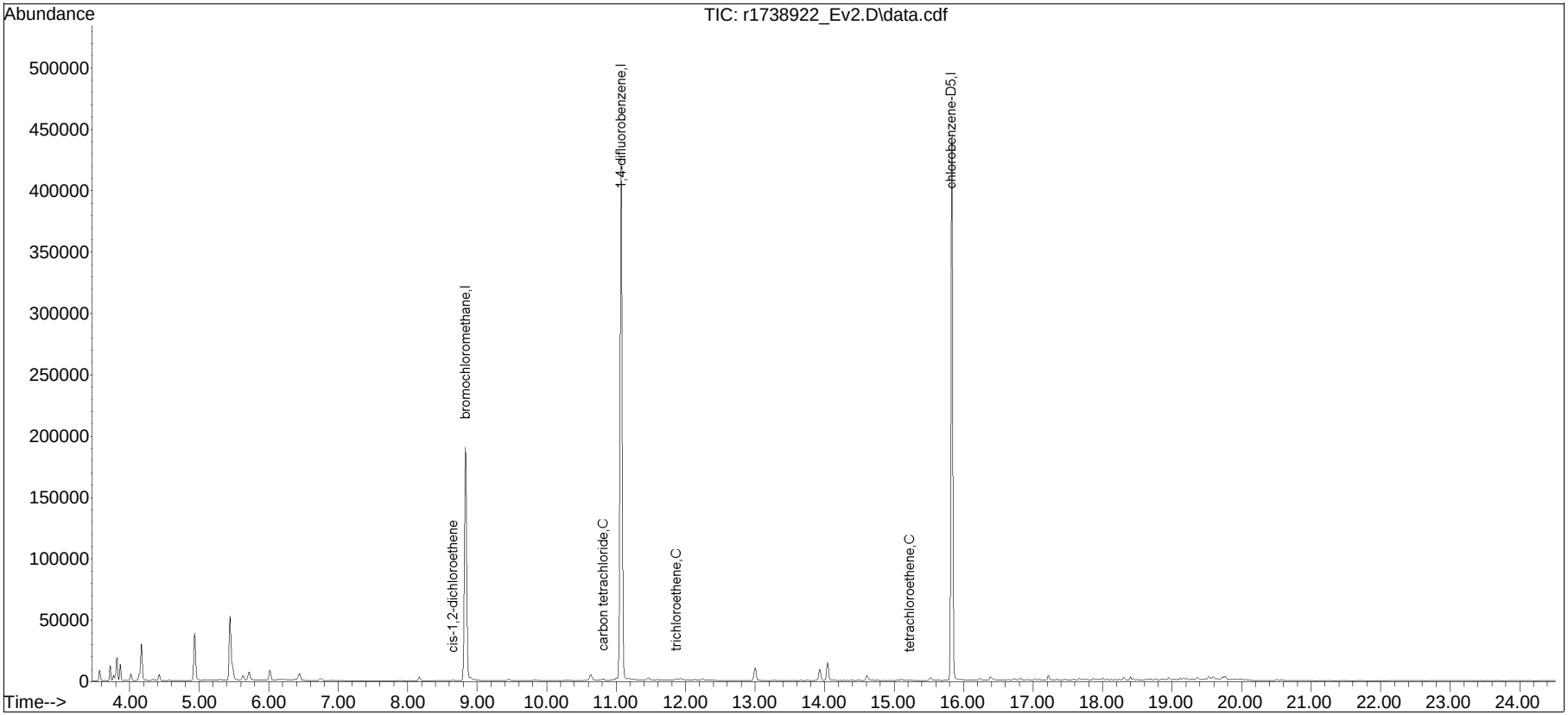
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.833	49	201594	10.000	ppbV	0.00
Standard Area = 222593			Recovery =		90.57%	
33) 1,4-difluorobenzene	11.070	114	554335	10.000	ppbV	0.00
Standard Area = 650953			Recovery =		85.16%	
51) chlorobenzene-D5	15.825	54	76485	10.000	ppbV	0.00
Standard Area = 90010			Recovery =		84.97%	
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	8.650	61	285	0.021	ppbV	93
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.817	117	1267	0.082	ppbV	91
44) trichloroethene	11.870	130	639	0.040	ppbV	91
57) tetrachloroethene	15.225	166	275	0.015	ppbV	91

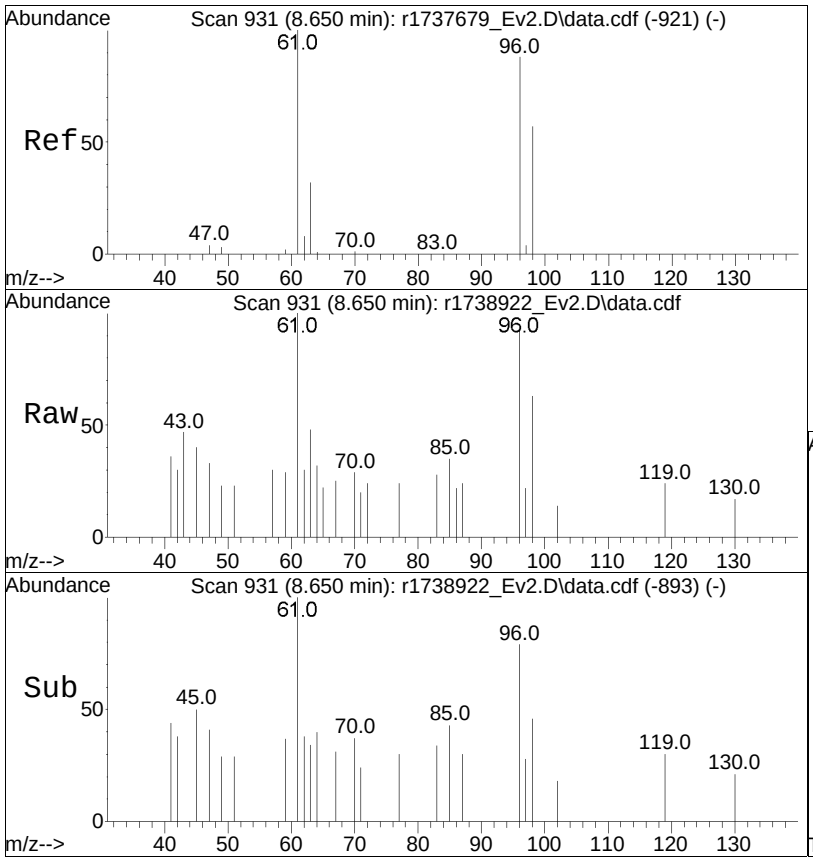
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airlab17\2024\02\0224SIM\r1738915_Ev2.D

Data Path : O:\Forensics\Data\Airlab17\2024\02\0224SIM\
Data File : r1738922_Ev2.D
Acq On : 24 Feb 2024 9:06 PM
Operator : AIRLAB17:TJS
Sample : WG1888882-5,3,250,250
Misc : WG1888882,ICAL20745
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 25 06:51:42 2024
Quant Method : O:\Forensics\Data\Airlab17\2024\02\0224SIM\TSIM17_240107.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Mon Jan 08 15:36:14 2024
Response via : Initial Calibration

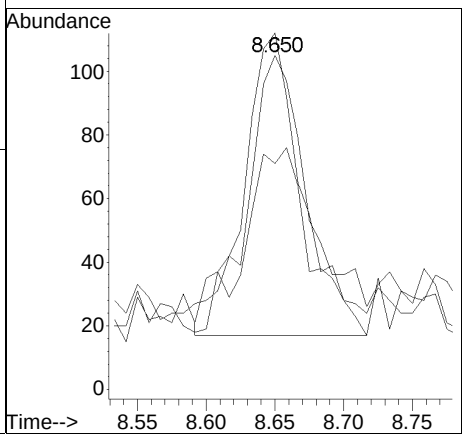


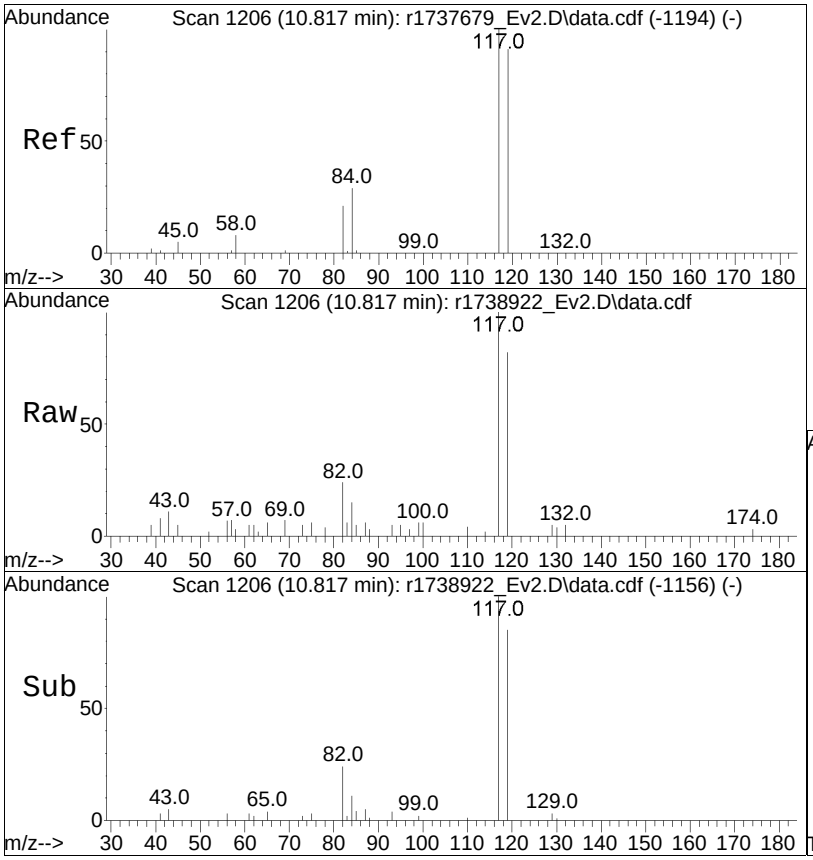


#28
cis-1,2-dichloroethene
Concen: 0.02 ppbV
RT: 8.650 min Scan# 931
Delta R.T. 0.000 min
Lab File: r1738922_Ev2.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion: 61 Resp: 285

Ion	Ratio	Lower	Upper
61	100		
96	93.8	70.8	106.2
98	63.4	45.8	68.8

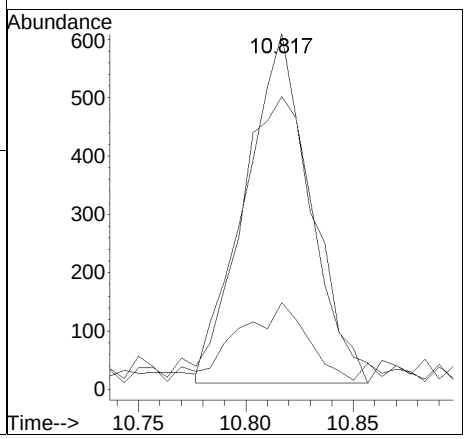


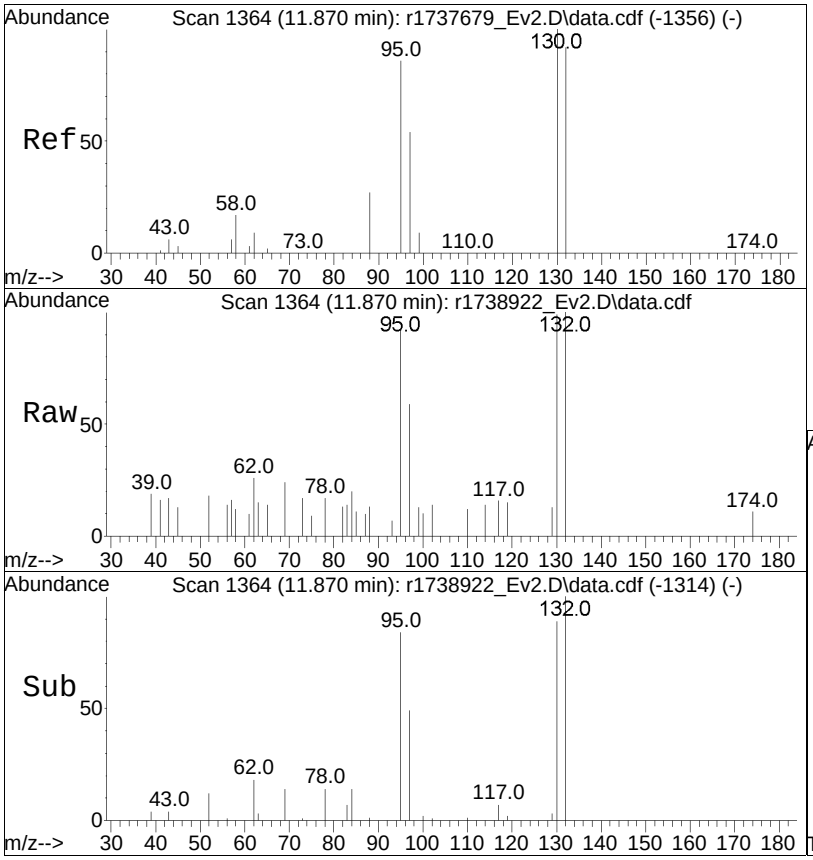


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 10.817 min Scan# 1206
Delta R.T. 0.000 min
Lab File: r1738922_Ev2.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion:117 Resp: 1267

Ion	Ratio	Lower	Upper
117	100		
119	82.4	73.0	109.4
82	24.5	16.8	25.2

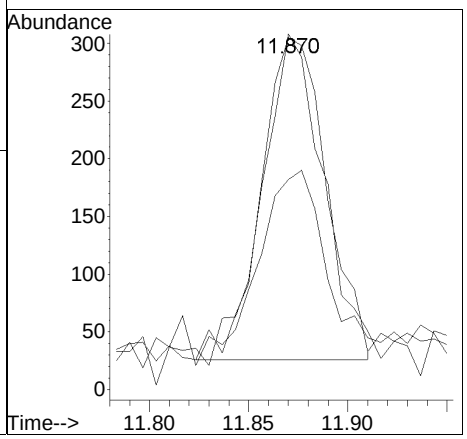


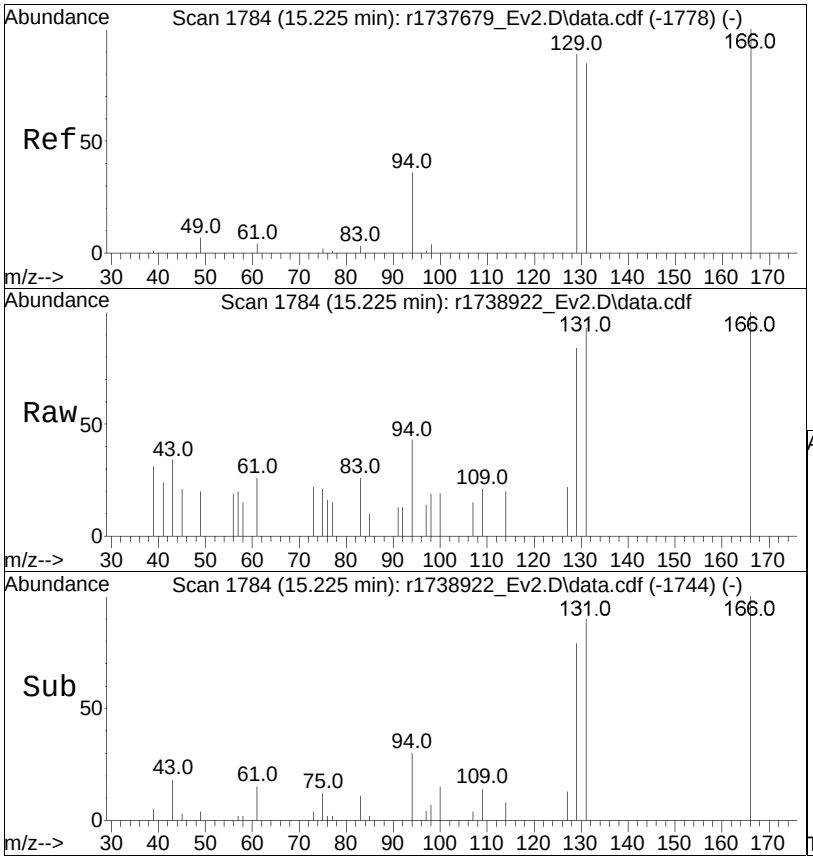


#44
trichloroethene
Concen: 0.04 ppbV
RT: 11.870 min Scan# 1364
Delta R.T. 0.000 min
Lab File: r1738922_Ev2.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion:130 Resp: 639

Ion	Ratio	Lower	Upper
130	100		
132	101.0	73.5	110.3
97	59.7	43.4	65.0

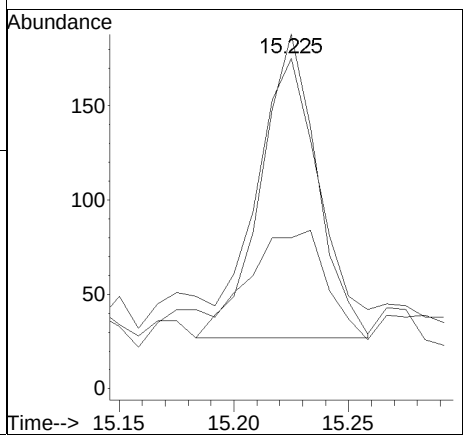




#57
tetrachloroethene
Concen: 0.02 ppbV
RT: 15.225 min Scan# 1784
Delta R.T. 0.000 min
Lab File: r1738922_Ev2.D
Acq: 24 Feb 2024 9:06 PM

Tgt Ion:166 Resp: 275

Ion	Ratio	Lower	Upper
166	100		
131	93.1	68.3	102.5
94	42.6	28.9	43.3



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab17	QMethod	: TSIM17_240107.M
Data File	: r1738922_Ev2.D	Operator	: AIRLAB17:TJS
Date Inj'd	: 2/24/2020 0:9: 6	Instrument	:
Sample	: WG1888882-5,3,250,250	Quant Date	: 2/25/2024 6:51 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927997_Ev2.D
Acq On : 25 Feb 2024 10:13 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-5D,3,122.03,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 07:18:22 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airlab19\2024\02\0225SIM\r1927989_Ev2.D
Sub List : 5_Chlorinateds - .

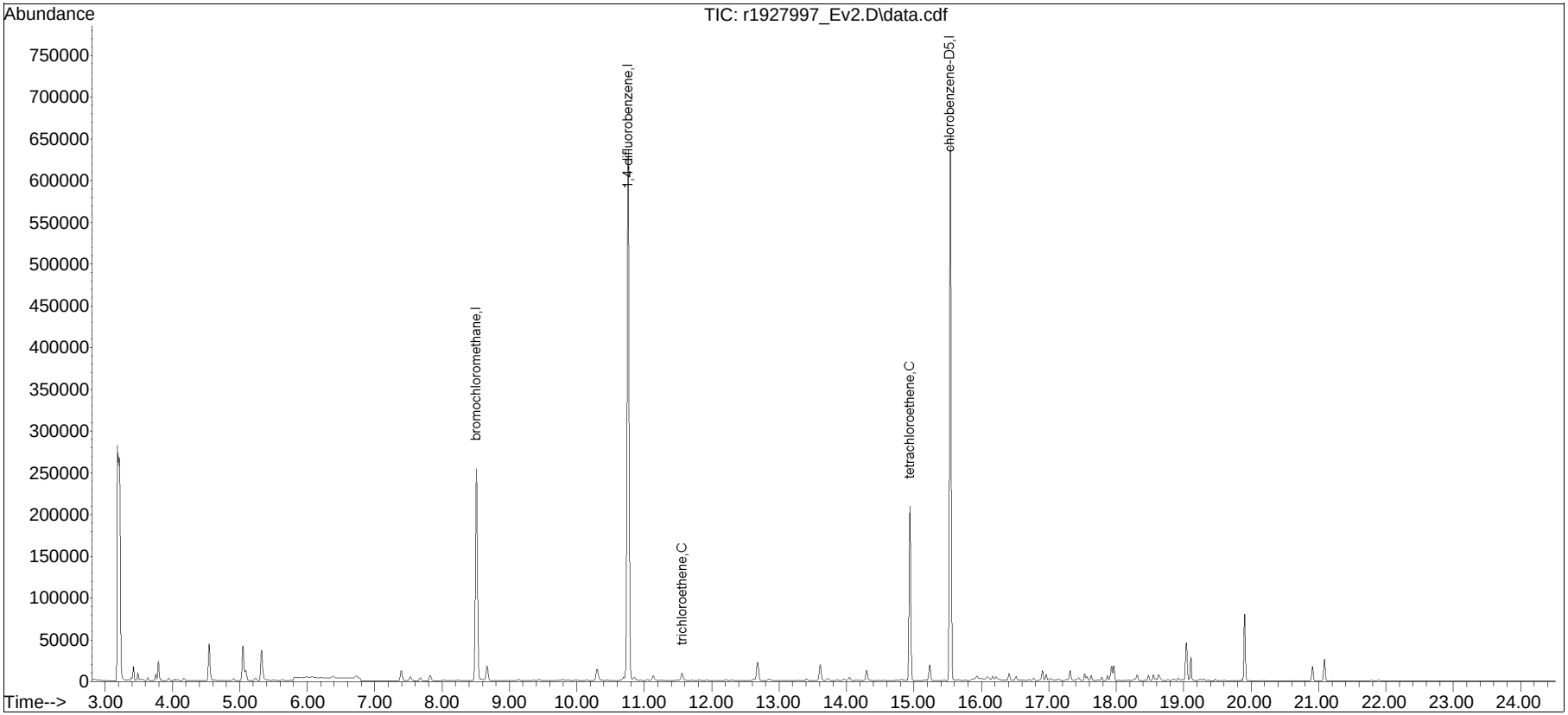
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.508	49	265031	10.000	ppbV	0.00
Standard Area = 262028			Recovery = 101.15%			
33) 1,4-difluorobenzene	10.760	114	715108	10.000	ppbV	0.00
Standard Area = 725299			Recovery = 98.59%			
51) chlorobenzene-D5	15.533	54	129763	10.000	ppbV	0.00
Standard Area = 130584			Recovery = 99.37%			
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	3.848		0	N.D.		
23) trans-1,2-dichloroethene	7.133		0	N.D.		
28) cis-1,2-dichloroethene	8.325		0	N.D.		
44) trichloroethene	11.560	130	4068	0.200	ppbV	95
57) tetrachloroethene	14.942	166	111510	3.508	ppbV	93

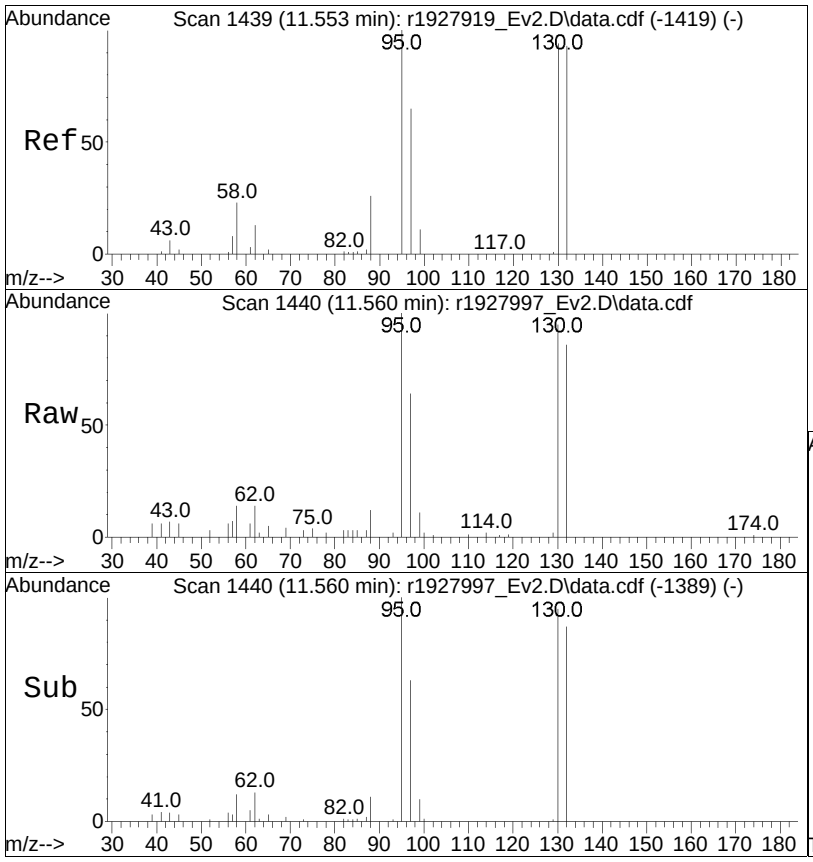
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 5_Chlorinateds - .Airlab19\2024\02\0225SIM\r1927989_Ev2.D

Data Path : O:\Forensics\Data\Airlab19\2024\02\0225SIM\
Data File : r1927997_Ev2.D
Acq On : 25 Feb 2024 10:13 PM
Operator : AIRLAB19:BJB
Sample : WG1889046-5D,3,122.03,250
Misc : WG1889046,ICAL20881
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 07:18:22 2024
Quant Method : O:\Forensics\Data\Airlab19\2024\02\0225SIM\TSIM19_240221.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Fri Feb 23 11:07:27 2024
Response via : Initial Calibration

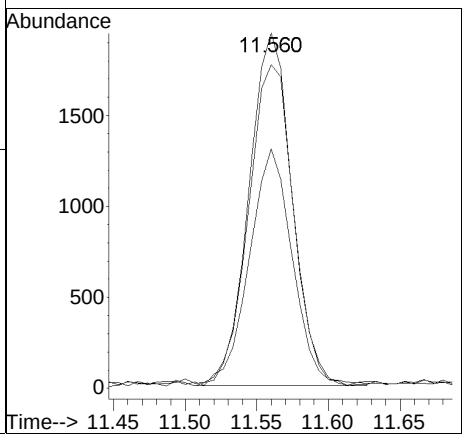


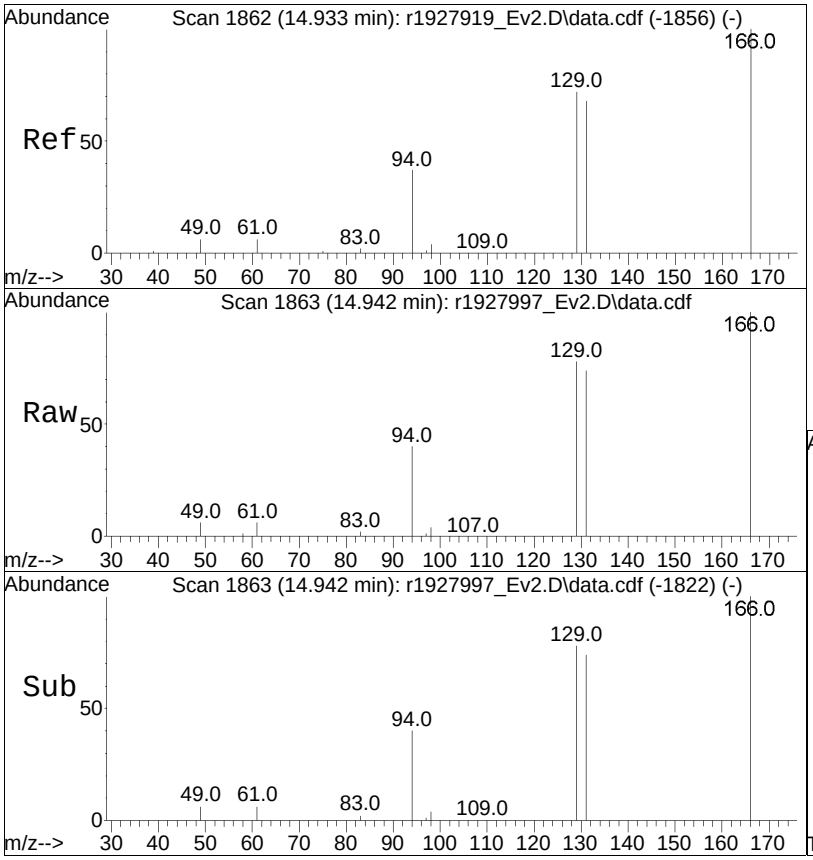


#44
trichloroethene
Concen: 0.20 ppbV
RT: 11.560 min Scan# 1440
Delta R.T. 0.007 min
Lab File: r1927997_Ev2.D
Acq: 25 Feb 2024 10:13 PM

Tgt Ion:130 Resp: 4068

Ion	Ratio	Lower	Upper
130	100		
132	91.1	78.5	117.7
97	67.4	55.3	82.9

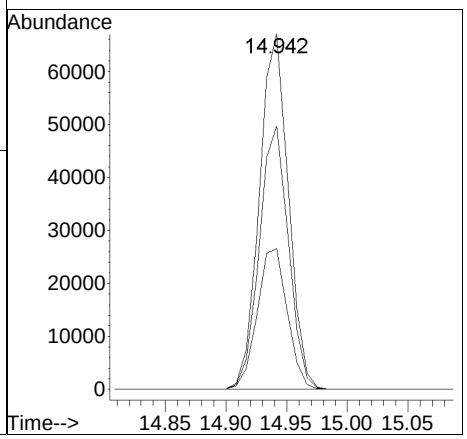




#57
tetrachloroethene
Concen: 3.51 ppbV
RT: 14.942 min Scan# 1863
Delta R.T. 0.008 min
Lab File: r1927997_Ev2.D
Acq: 25 Feb 2024 10:13 PM

Tgt Ion:166 Resp: 111510

Ion	Ratio	Lower	Upper
166	100		
131	74.2	54.0	81.0
94	39.6	29.7	44.5



Manual Integration Report

Data Path	: O:\Forensics\Data\Airlab19	QMethod	: TSIM19_240221.M
Data File	: r1927997_Ev2.D	Operator	: AIRLAB19:BJB
Date Inj'd	: 2/25/2020 0:0: 3	Instrument	:
Sample	: WG1889046-5D,3,122.03,250	Quant Date	: 2/26/2024 7:18 am

There are no manual integrations or false positives in this file.

Quantitation Report (QT Reviewed)

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329324_Ev2.D
Acq On : 25 Feb 2024 11:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-5,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:13 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

CCAL FILE : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D
Sub List : 7-NY-SIM - .

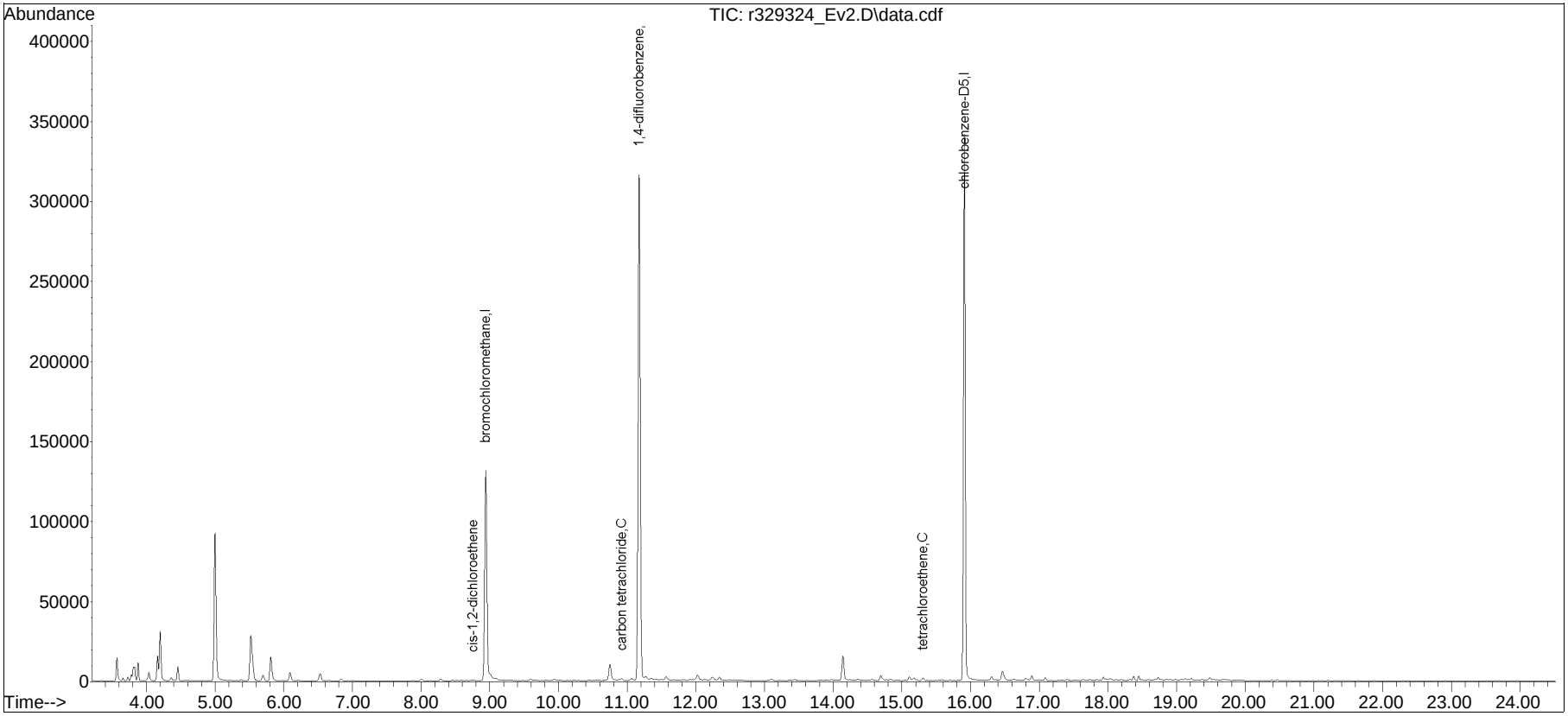
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) bromochloromethane	8.942	49	147173	10.000	ppbV	-0.04
Standard Area = 180634			Recovery =		81.48%	
33) 1,4-difluorobenzene	11.173	114	381789	10.000	ppbV	-0.05
Standard Area = 492655			Recovery =		77.50%	
51) chlorobenzene-D5	15.908	54	73731	10.000	ppbV	#-0.03
Standard Area = 92375			Recovery =		79.82%	
System Monitoring Compounds						
Target Compounds						Qvalue
6) vinyl chloride	4.260		0	N.D.		
17) 1,1-dichloroethene	0.000		0	N.D.		
28) cis-1,2-dichloroethene	8.758	61	326	0.019	ppbV	94
36) 1,1,1-trichloroethane	0.000		0	N.D.		
38) carbon tetrachloride	10.920	117	942	0.084	ppbV #	94
44) trichloroethene	11.987		0	N.D.		
57) tetrachloroethene	15.308	166	1056	0.051	ppbV #	93

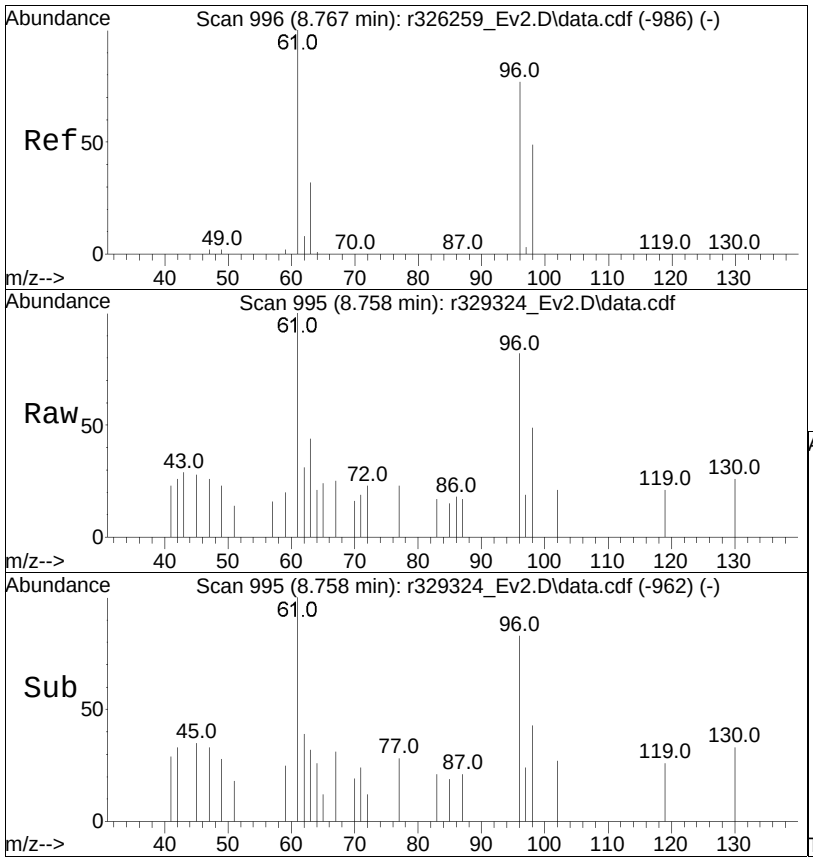
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Sub List : 7-NY-SIM - .\Data\Airpiano3\2024\02\0225SIM\r329315_Ev2.D

Data Path : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\
Data File : r329324_Ev2.D
Acq On : 25 Feb 2024 11:13 PM
Operator : AIRPIANO3:BJB
Sample : WG1889055-5,3,250,250
Misc : WG1889055,ICAL20783
ALS Vial : 0 Sample Multiplier: 1

Quant Time: Feb 26 06:00:13 2024
Quant Method : O:\Forensics\Data\Airpiano3\2024\02\0225SIM\TSIM3_231230.M
Quant Title : TO-14A/TO-15 SIM/Full Scan Analysis
QLast Update : Tue Jan 16 17:54:34 2024
Response via : Initial Calibration

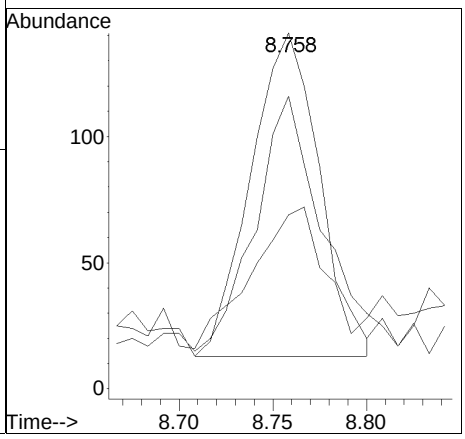


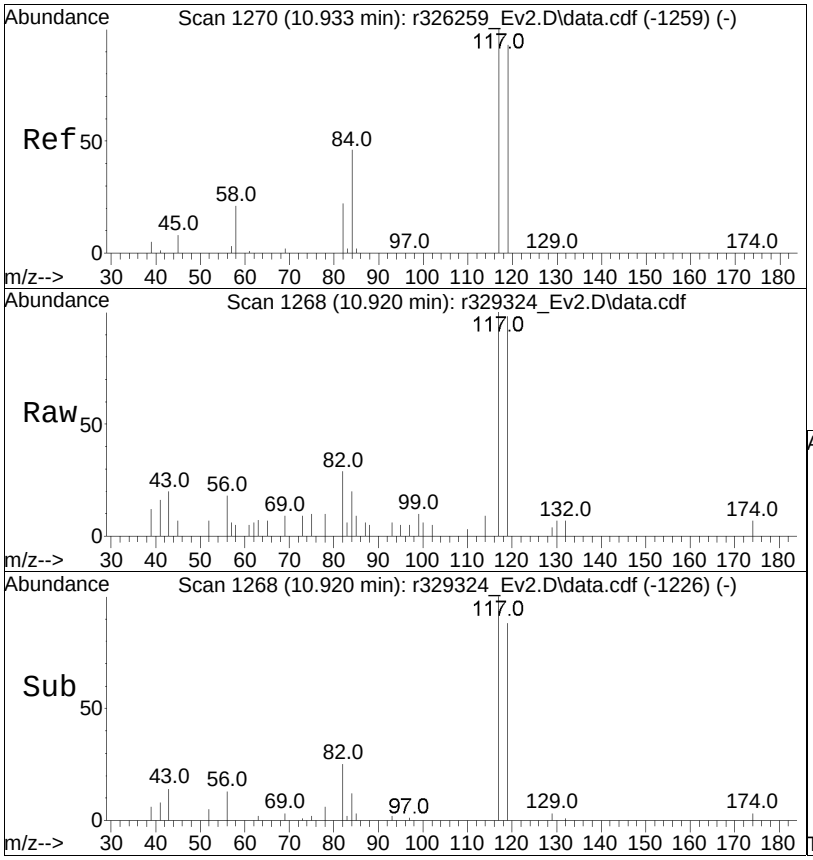


#28
cis-1,2-dichloroethene
Concen: 0.02 ppbV
RT: 8.758 min Scan# 995
Delta R.T. -0.042 min
Lab File: r329324_Ev2.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion: 61 Resp: 326

Ion	Ratio	Lower	Upper
61	100		
96	82.3	59.8	89.6
98	48.9	38.0	57.0

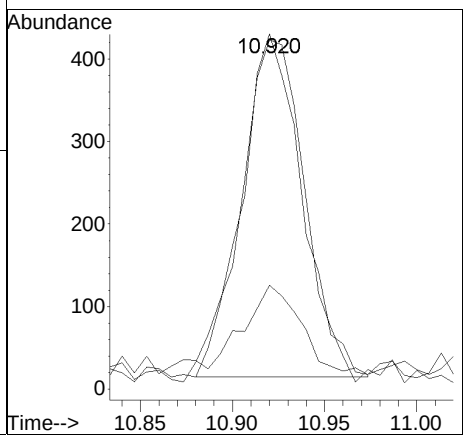


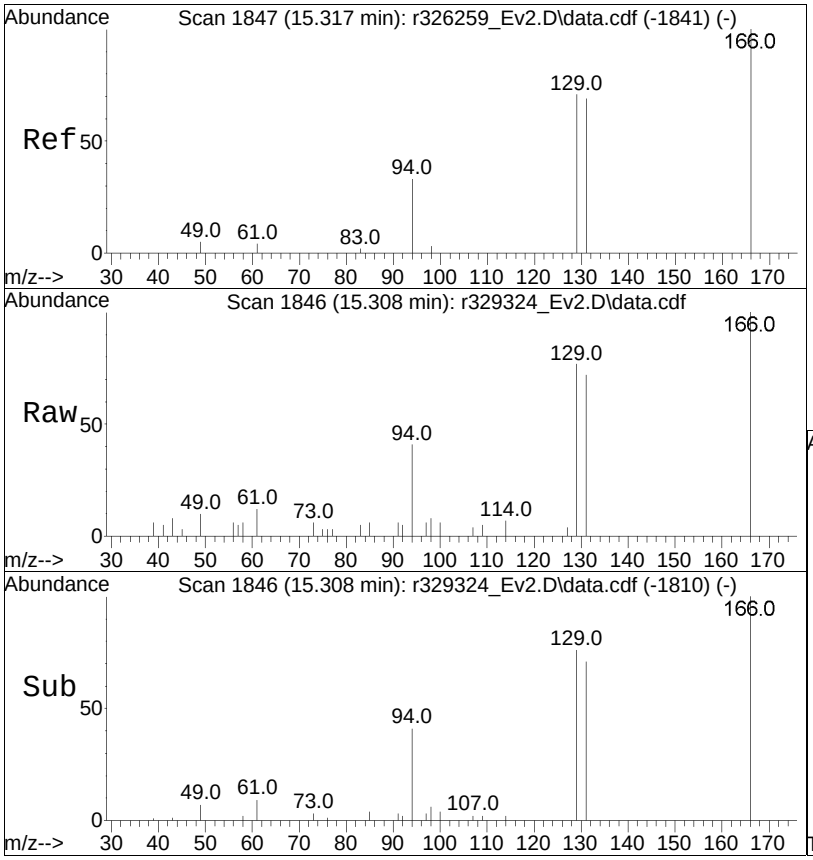


#38
carbon tetrachloride
Concen: 0.08 ppbV
RT: 10.920 min Scan# 1268
Delta R.T. -0.047 min
Lab File: r329324_Ev2.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion:117 Resp: 942

Ion	Ratio	Lower	Upper
117	100		
119	98.4	75.5	113.3
82	29.3	17.8	26.8#

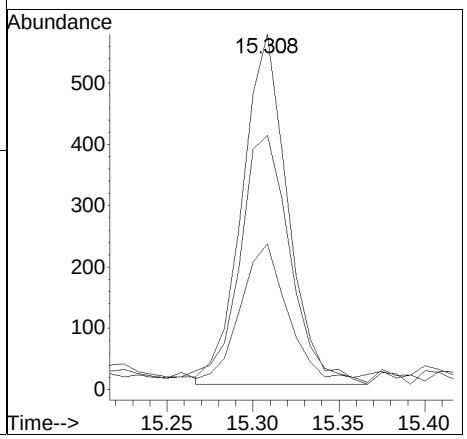




#57
tetrachloroethene
Concen: 0.05 ppbV
RT: 15.308 min Scan# 1846
Delta R.T. -0.033 min
Lab File: r329324_Ev2.D
Acq: 25 Feb 2024 11:13 PM

Tgt Ion:166 Resp: 1056

Ion	Ratio	Lower	Upper
166	100		
131	71.6	55.4	83.2
94	41.0	25.3	37.9#



Manual Integration Report

Data Path	: O:\Forensics\Data\Airpiano	QMethod	: TSIM3_231230.M
Data File	: r329324_Ev2.D	Operator	: AIRPIANO3:BJB
Date Inj'd	: 2/25/2020 0:1: 3	Instrument	:
Sample	: WG1889055-5,3,250,250	Quant Date	: 2/26/2024 6:00 am

There are no manual integrations or false positives in this file.

Calculation of Volatile Organic Compounds in Air

The instrument will calculate the concentration (ppbv). If the sample is diluted (DF), the result is multiplied by the DF to generate the final result.

Result, ppbv = C_s x DF
Where:
C_s = Concentration of sample (ppbv)
DF = Dilution Factor

Calculation of Instrument Dilution Factor

For dilutions, smaller sample volumes (< 250mL) are analyzed. The smallest volume that can be analyzed with accuracy is 10 mL.

Samples that arrive at the laboratory with pressures below -15 inches Hg must be pressurized with zero air to greater than -15 inches Hg. This pressurization results in a dilution factor.

Calculation of Dilution Factor
$DF = V_{cf} / V_{ci}$
Where:
V_{ci} = volume of air in canister prior to pressurization, L
P =

Conversion of ppbv to ug/m^3
ug/m^3 = (ppbv) * MW / 24.47
Where:
24.47 = molar gas constant (g/g-mole)
MW = molecular weight of the compound of interest

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

Dilution Factor for Pressurization of Subatmospheric Samples: Three Steps

Step 1: Calculate the volume in the canister prior to pressurization (Assume a 2.7 liter canister is used).

$V_{ci} = 2.7 * Pl/14.696$

Step 2: Calculate the volume in the canister after pressurization.

$V_{cf} = 2.7 * PF/14.696$

Step 3: Calculate the dilution factor.

$DF = V_{cf} / V_{ci}$

Where:

V_{ci} = volume of air in canister prior to pressurization, L
PI = pressure reading of canister prior to pressurization (psia)
V_{cf} = volume of air in canister after pressurization, L
PF = pressure reading of canister after pressurization (psia)
DF = dilution factor
14.696 = atmospheric pressure (psia)

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 27 2024, 11:46 am

Work Group: WG1888882 for Department: 3 GC/MS

Created: 24-FEB-24 Due: Operator: JMB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2407933-01	5V	S	TO15-SIM	AIR	DONE	U	0314	0227	S0	Can-2.7
L2407933-02	6V	S	TO15-SIM	AIR	DONE	U	0314	0227	S0	Can-2.7
L2407933-03	7V	S	TO15-SIM	AIR	DONE	U	0314	0227	S0	Can-2.7
L2409224-01	IA-1	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
WG1888882-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1888882-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1888882-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1888882-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1888882-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG1888882-5 L2407933-03

ALPHA ANALYTICAL LABORATORIES, INC.

Alpha WORK GROUP REPORT (wk02)

Feb 27 2024, 11:46 am

Work Group: WG1889055 for Department: 3 GC/MS

Created: 25-FEB-24 Due: Operator: BJB

Sample	Client ID	C	Product	Matrix	Stat	UA	HOLD	DUE	PR	Location
L2409224-02	IA-2	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-03	IA-4	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-04	IA-5	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-05	IA-6	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-06	IA-9	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-07	IA-F1C	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-08	IA-F2C	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-09	IA-F3C	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-10	AA-1	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409224-11	DUP_022024	S	TO15-SIM	AIR	DONE	U	0321	0227	S0	Can-6
L2409464-07	OLINVILLE-IA-B07	S	TO15-SIM	AIR	DONE	U	0322	0228	S0	Can-6
L2409464-08	OLINVILLE-IA-B08	S	TO15-SIM	AIR	DONE	U	0322	0228	S0	Can-6
L2409464-09	OLINVILLE-AA-01	S	TO15-SIM	AIR	DONE	U	0322	0228	S0	Can-6
WG1889055-1	MS BFB Tune Standard	S	TO15-SIM	AIR	DONE	U				
WG1889055-2	Continuing Calibrati	S	TO15-SIM	AIR	DONE	U				
WG1889055-3	Laboratory Control S	S	TO15-SIM	AIR	DONE	U				
WG1889055-4	Laboratory Method Bl	S	TO15-SIM	AIR	DONE	U				
WG1889055-5	Duplicate Sample	S	TO15-SIM	AIR	DONE	U				

Comments:

WG1889055-5 L2409224-05

Alpha Analytical Air Lab
Instrument Run Log

t ID: AIRLAB19

Internal Standard/Surrogate IDs: SS22-029 / SS21-027

Date: 02/21/2023

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 230221.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	BA19022101	TO15_SFS.qgm	R1927909.qgd	250 mL	BLANK		NA
1	BA19022102	TO15_SFS.qgm	R1927910.qgd	250 mL	BLANK		NA
1	BA19022103	TO15_SFS.qgm	R1927911.qgd	250 mL	BLANK		NA
1	TA19022101	TO15_SFS.qgm	R1927912.qgd	250 mL	TUNE		NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R1927913.qgd	50 mL SS23-030D	SIM ONLY		NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R1927914.qgd	125 mL SS23-030D	SIM ONLY		NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R1927915.qgd	250 mL SS23-030D	SIM ONLY		NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R1927916.qgd	50 mL SS23-030C			NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R1927917.qgd	125 mL SS23-030C			NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R1927918.qgd	250 mL SS23-030C			NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R1927919.qgd	125 mL SS23-030B			NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R1927920.qgd	250 mL SS23-030B			NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R1927921.qgd	50 mL SS23-030A			NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R1927922.qgd	125 mL SS23-030A			NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R1927923.qgd	250 mL SS23-030A	LL ONLY		NA
1	BA19022101	TO15_SFS.qgm	R1927924.qgd	250 mL	BLANK		NA
1	BA19022102	TO15_SFS.qgm	R1927925.qgd	250 mL	BLANK		NA
2	CTO15-LLSTD10.0	TO15_SFS.qgm	R1927926.qgd	250 mL SS23-027D	LL ICV		NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1927927.qgd	125 mL SS23-027D	SIM ICV		NA

Alpha Analytical Air Lab
Instrument Run Log

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Instrument ID: AIRPIANO3

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 12/30/23

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 231230.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA3123001	TO15_SFS.qgm	R328235.qgd	250 mL	TUNE	DEF	NA
5	ITO15-SIMSTD0.02	TO15_SFS.qgm	R328236.qgd	50 mL SS23-030D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.05	TO15_SFS.qgm	R328237.qgd	125 mL SS23-030D	SIM ONLY	DEF	NA
5	ITO15-SIMSTD0.1	TO15_SFS.qgm	R328238.qgd	250 mL SS23-030D	SIM ONLY	DEF	NA
6	ITO15-SIMSTD0.2	TO15_SFS.qgm	R328239.qgd	50 mL SS23-030C		DEF	NA
6	ITO15-SIMSTD0.5	TO15_SFS.qgm	R328240.qgd	125 mLSS23-030C		DEF	NA
6	ITO15-SIMSTD1.0	TO15_SFS.qgm	R328241.qgd	250 mL SS23-030C		DEF	NA
7	ITO15-SIMSTD5.0	TO15_SFS.qgm	R328242.qgd	125 mL SS23-030B		DEF	NA
7	ITO15-SIMSTD010	TO15_SFS.qgm	R328243.qgd	250 mL SS23-0030B		DEF	NA
8	ITO15-SIMSTD020	TO15_SFS.qgm	R328244.qgd	50 mL SS23-030A		DEF	NA
8	ITO15-SIMSTD050	TO15_SFS.qgm	R328245.qgd	125 mL SS23-030A		DEF	NA
8	ITO15-LLSTD100	TO15_SFS.qgm	R328246.qgd	250 mL SS23-030A	LL ONLY	DEF	NA
1	BA3123001	TO15_SFS.qgm	R328247.qgd	250 mL			NA
1	BA3123002	TO15_SFS.qgm	R328248.qgd	250 mL			NA
2	CTO15-LLSTD010	TO15_SFS.qgm	R328249.qgd	250 mL SS23-029C	LL ICV	DEF ICV AP2	NA
2	CTO15-SIMSTD5.0	TO15_SFS.qgm	R328250.qgd	125 mL SS23-029C	SIM ICV (TUNE FOR 12/31 SEQ)	DEF ICV AP2	NA

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-(

Date: 01/07/24

Internal Standard/Surrogate Volume:

Analyst Initials: BJB

Sequence File Name:

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737670.qgd	250 mL	BLANK
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737671.qgd	250 mL	BLANK
1	TA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737672.qgd	250 mL	TUNE
9	ITO15-SIMSTD0.02	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737673.qgd	50 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.05	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737674.qgd	125 mL SS23-019D	SIM ONLY
9	ITO15-SIMSTD0.1	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737675.qgd	250 mL SS23-019D	SIM ONLY
10	ITO15-SIMSTD0.2	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737676.qgd	50 mL SS23-019C	
10	ITO15-SIMSTD0.5	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737677.qgd	125 mL SS23-019C	
10	ITO15-SIMSTD1.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737678.qgd	250 mL SS23-019C	
11	ITO15-SIMSTD5.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737679.qgd	125 mL SS23-019B	
11	ITO15-SIMSTD10.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737680.qgd	250 mL SS23-019B	
12	ITO15-SIMSTD20	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737681.qgd	50 mL SS23-019A	
12	ITO15-SIMSTD50	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737682.qgd	125 mL SS23-019A	
12	ITO15-LLSTD100	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737683.qgd	250 mL SS23-019A	LL ONLY
1	BA17110401	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737684.qgd	250 mL	
1	BA17110402	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737685.qgd	250 mL	

Alpha Analytical Air Lab
Instrument Run Log

028/ SS21-026

100 ml

240107.S

Product/ Sublist	Check Pass ?
	NA
	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
DEFAULT	NA
	NA
USE AS TUNE FOR 1/8 SEQ	NA

Alpha Analytical Air Lab
Instrument Run Log

2	CTO15-LLSTD10.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737686.qgd	250 mL SS23-017C	LL ICV
2	CTO15-SIMSTD5.0	C:\GCMSsolution\Methods\TO15_SFS.qgm	R1737687.qgd	125 mL SS23-017C	SIM ICV

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: L1301234-01,3,250,250 { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

Alpha Analytical Air Lab
Instrument Run Log

DEF ICV AP2	NA
DEF ICV AP2	NA

Alpha Analytical Air Lab
Instrument Run Log

Instrument ID: Airlab 17

Internal Standard/Surrogate IDs: SS22-028/ SS21-026

Date: 02/24/24

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: JMB

Sequence File Name: 240224.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	Check Pass ? Y/N
1	TA17022301	TO15_SFS.qgm	R1738911.qgd	250 mL	TUNE		NA
2	CAPH10-APH10.0	TO15_SFS.qgm	R1738912.qgd	125 mL SS23-017D	APH CC		NA
3	CA17022301	TO15_SFS.qgm	R1738913.qgd	250 mL	LL CC		NA
4	CTO15-LLSTD10.0	TO15_SFS.qgm	R1738914.qgd	250 mL SS23-017D	LL LCS		NA
4	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1738915.qgd	125 mL SS23-017D	SIM LCS		NA
1	BA17022301	TO15_SFS.qgm	R1738916.qgd	250 mL	LL BLANK	Failed TCE by SIM	NA
1	BA17022302	TO15_SFS.qgm	R1738917.qgd	250 mL	SIM BLANK	Failed TCE	NA
2	L2409224-01,3,250,250	TO15_SFS.qgm	R1738918.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
3	L2407933-01,3,250,250	TO15_SFS.qgm	R1738919.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
4	L2407933-02,3,250,250	TO15_SFS.qgm	R1738920.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
5	L2407933-03,3,250,250	TO15_SFS.qgm	R1738921.qgd	WG1888881,ICAL20743	rerun for TCE by SIM	NY-7SIM	Y
5	L2407933-03DUP,3,250,250	TO15_SFS.qgm	R1738922.qgd	WG1888881,ICAL20743	(DUMMY) LL/SIM DUP	NY-7SIM	Y
6	L2408647-01,3,250,250	TO15_SFS.qgm	R1738923.qgd	WG1888883,ICAL20743		MCP/APH	Y
7	L2408647-02,3,250,250	TO15_SFS.qgm	R1738924.qgd	WG1888883,ICAL20743		MCP/APH	Y
8	L2408647-03,3,250,250	TO15_SFS.qgm	R1738925.qgd	WG1888883,ICAL20743		MCP/APH	Y
9	L2408647-04,3,250,250	TO15_SFS.qgm	R1738926.qgd	WG1888883,ICAL20743		MCP/APH	Y
10	L2408647-05,3,250,250	TO15_SFS.qgm	R1738927.qgd	WG1888883,ICAL20743		MCP/APH	Y

Alpha Analytical Air Lab
Instrument Run Log

11	L2408647-06,3,250,250	TO15_SFS.qgm	R1738928.qgd	WG1888883,ICAL20743		MCP/APH	Y
12	L2408647-07D,3,200,250	TO15_SFS.qgm	R1738929.qgd	WG1888883,ICAL20743	T	MCP/APH	Y
13	L2408568-01,3,250,250	TO15_SFS.qgm	R1738930.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y
14	L2408568-02D,3,30,250	TO15_SFS.qgm	R1738931.qgd	WG1888881,ICAL20743	over diluted	STD+NAPH+IPB	Y
15	L2408568-03,3,250,250	TO15_SFS.qgm	R1738932.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y
16	L2406995-01D,3,118.2,250	TO15_SFS.qgm	R1738933.qgd	WG1888884,ICAL20751	TRANSFER	APH	Y
14	L2408568-02,3,250,250	TO15_SFS.qgm	R1738934.qgd	WG1888881,ICAL20743		STD+NAPH+IPB	Y

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

nt ID:	AIRLAB19	Internal Standard/Surrogate IDs:	SS22-029 / SS21-027
Date:	02/25/2024	Internal Standard/Surrogate Volume:	100 ml
Analyst Initials:	BJB	Sequence File Name:	240225.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	TA19021401	TO15_SFS.qgm	R1927986.qgd	250 mL	TUNE		NA
2	CA19021401	TO15_SFS.qgm	R1927987.qgd	250 mL	LL CC	CLOSED	NA
3	CTO15-LLSTD10.0	TO15_SFS.qgm	R1927988.qgd	250 mL SS23-027D	LL LCS		NA
3	CTO15-SIMSTD5.0	TO15_SFS.qgm	R1927989.qgd	125 mL SS23-027D	SIM LCS		NA
1	BA19021401	TO15_SFS.qgm	R1927990.qgd	250 mL	LL BLANK		NA
1	BA19021402	TO15_SFS.qgm	R1927991.qgd	250 mL	SIM BLANK		Y
1	L2409224-01,3,250,250	TO15_SFS.qgm	R1927992.qgd	WG1889046,ICAL20881		TCE ONLY BY SIM	Y
2	L2407933-01,3,250,250	TO15_SFS.qgm	R1927993.qgd	WG1889046,ICAL20881		TCE ONLY BY SIM	Y
3	L2407933-02,3,250,250	TO15_SFS.qgm	R1927994.qgd	WG1889046,ICAL20881		TCE ONLY BY SIM	Y
4	L2407933-03,3,250,250	TO15_SFS.qgm	R1927995.qgd	WG1889046,ICAL20881		TCE ONLY BY SIM	Y
5	L2407354-04D,3,122.03,250	TO15_SFS.qgm	R1927996.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
5	L2407354-04DUPD,3,122.03,250	TO15_SFS.qgm	R1927997.qgd	WG1889046,ICAL20881	SIM BLANK	5 CHLOR BY SIM	Y
6	L2407354-05D,3,118.24,250	TO15_SFS.qgm	R1927998.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
7	L2407354-08D,3,119.97,250	TO15_SFS.qgm	R1927999.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
8	L2407354-09D,3,118.24,250	TO15_SFS.qgm	R1928000.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
9	L2407354-10D,3,118.64,250	TO15_SFS.qgm	R1928001.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
10	L2407354-13D,3,114.93,250	TO15_SFS.qgm	R1928002.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
11	L2407354-14D,3,115.38,250	TO15_SFS.qgm	R1928003.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
12	L2407354-15D,3,117,250	TO15_SFS.qgm	R1928004.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
13	L2407354-19D,3,118.64,250	TO15_SFS.qgm	R1928005.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
14	L2407354-20D,3,118.69,250	TO15_SFS.qgm	R1928006.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y

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Instrument Run Log

15	L2407354-21D,3,119.13,250	TO15_SFS.qgm	R1928007.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
16	L2407354-26D,3,118.24,250	TO15_SFS.qgm	R1928008.qgd	WG1889046,ICAL20881		5 CHLOR BY SIM	Y
1	L2407354-27D,3,70.68,250	TO15_SFS.qgm	R1928009.qgd	WG1889046,ICAL20881	T	5 CHLOR BY SIM	Y
2	L2407354-28D,3,40.93,250	TO15_SFS.qgm	R1928010.qgd	WG1889046,ICAL20881	T	5 CHLOR BY SIM	Y

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

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

Instrument ID: AIRPIANO3

Internal Standard/Surrogate IDs: SS23-010/ SS20-025

Date: 02/25/24

Internal Standard/Surrogate Volume: 100 ml

Analyst Initials: BJB

Sequence File Name: 240225.S

AS Position #	Sample ID	Acquisition Method	Data File ID	Standard ID or Batch ID #, ICAL Ref #	Comment (s)	Product/ Sublist	ck Pass ? Y/N
1	TA3022401	TO15_SFS.qgm	R329312.qgd	250 mL	TUNE		NA
2	CA3022401	TO15_SFS.qgm	R329313.qgd	250 mL	NJ CC FAILED		NA
3	CTO15-LLSTD10	TO15_SFS.qgm	R329314.qgd	250 mL SS23-020G	LL LCS	RERUN FOR HITS OF 2HEX, BF, BC – DUE TO ICAL	NA
3	CTO15-SIMSTD5	TO15_SFS.qgm	R329315.qgd	125 mL SS23-020G	SIM LCS		NA
1	BA3022401	TO15_SFS.qgm	R329316.qgd	250 mL	LL BLANK		NA
1	BA3022401	TO15_SFS.qgm	R329317.qgd	250 mL	SIM BLANK		NA
1	L2409464-09,3,250,250	TO15_SFS.qgm	R329318.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
2	L2409224-10,3,250,250	TO15_SFS.qgm	R329319.qgd	WG1889054,ICAL20782		NY-7SIM	Y
3	L2409224-02,3,250,250	TO15_SFS.qgm	R329320.qgd	WG1889054,ICAL20782		NY-7SIM	Y
4	L2409224-03,3,250,250	TO15_SFS.qgm	R329321.qgd	WG1889054,ICAL20782		NY-7SIM	Y
5	L2409224-04,3,250,250	TO15_SFS.qgm	R329322.qgd	WG1889054,ICAL20782		NY-7SIM	Y
6	L2409224-05,3,250,250	TO15_SFS.qgm	R329323.qgd	WG1889054,ICAL20782		NY-7SIM	Y
6	L2409224-05DUP,3,250,250	TO15_SFS.qgm	R329324.qgd	WG1889054,ICAL20782	LL/ SIM DUP	NY-7SIM	Y
7	L2409224-06,3,250,250	TO15_SFS.qgm	R329325.qgd	WG1889054,ICAL20782		NY-7SIM	Y
8	L2409224-07,3,250,250	TO15_SFS.qgm	R329326.qgd	WG1889054,ICAL20782	ETOH OVERCAL	NY-7SIM	Y
9	L2409224-08,3,250,250	TO15_SFS.qgm	R329327.qgd	WG1889054,ICAL20782		NY-7SIM	Y

10	L2409224-09,3,250,250	TO15_SFS.qgm	R329328.qgd	WG1889054,ICAL20782		NY-7SIM	Y
11	L2409224-11,3,250,250	TO15_SFS.qgm	R329329.qgd	WG1889054,ICAL20782		NY-7SIM	Y
12	L2409464-07,3,250,250	TO15_SFS.qgm	R329330.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
13	L2409464-08,3,250,250	TO15_SFS.qgm	R329331.qgd	WG1889054,ICAL20782		NY-7 SIM + NAPH	Y
14	L2407714-17,3,250,250	TO15_SFS.qgm	R329332.qgd	WG1889054,ICAL20782		STD + NAPH	Y
15	L2407714-18,3,250,250	TO15_SFS.qgm	R329333.qgd	WG1889054,ICAL20782		STD + NAPH	Y
16	L2407714-19,3,250,250	TO15_SFS.qgm	R329334.qgd	WG1889054,ICAL20782		STD + NAPH	Y
1	L2409047-01D,3,5.98,250	TO15_SFS.qgm	R329335.qgd	WG1889054,ICAL20782	Overdiluted	PA	Y
2	L2409047-02D,3,114.41,250	TO15_SFS.qgm	R329336.qgd	WG1889054,ICAL20782		PA	Y
8	L2409224-07D,3,50,250	TO15_SFS.qgm	R329337.qgd	WG1889054,ICAL20782		ETOH	Y
1	L2409047-01D,3,29.9,250	TO15_SFS.qgm	R329338.qgd	WG1889054,ICAL20782	T	PA	

Column ID: Rtx-1 0.25 mm ID

Date(s) of Initial Calibration: Refer to Initial Calibration Summary Form 6

Date Acquired: see Instrument Performance Check Summary and/or quantitation report.

Sample ID information: { Lab sample ID, dept #, actual volume analyzed (mL), nominal volume analyzed (mL) } L1301234-01,3,250,250

Dilution Factor: See Form 1 report, or divide nominal volume by actual volume analyzed

APPENDIX E

Sub-Slab Depressurization System Operations and Maintenance Forms

SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	11-20 46th Road
Street Address:	11-20 46th Road
Location:	Long Island City, New York
System:	Active Sub-Slab Depressurization System
Blower:	Rotron EN505, 2.0 HP
Blower Range:	75 IWG pressure, 70 IWG vacuum, 150 SCFM

Inspection Date: 08/16/2023

Inspection Personnel: Luisa Fernandez

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		-
Are any warning lights on? (Please list those that are on)		✓	-
If there is an alarm condition, was it fixed and the system restarted?		✓	-
Is the blower enclosure in good condition?	✓		-
Are the valves (at blower and aboveground piping) in good condition?	✓		-
Is the vacuum filter in good condition?	✓		-
Does the knock-out tank need to be drained? (Record amount drained)		✓	-
Are vacuum/pressure gauges at blower operating properly?	✓		-
Is exterior piping free of cracks, leaks, and support issues?	✓		-
Is interior piping free of cracks, leaks, and support issues?	✓		-

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-1 (after knock-out tank)	-	-
Knock-out Tank	-	-
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-1	-	-
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SS-7	-1.188	-
SS-8	-2.057	-
SS-9B	-2.302	-
SS-10	-1.000	-
SS-11	-3.256	-
SS-12	-1.321	-
SS-16	-0.760	-
SS-17	-0.214	-
SS-18	-0.105	-
SS-19	-0.144	-
SS-20B	-2.157	-
SS-21	-1.345	-

BUILDING CELLAR INSPECTION	Comments / Actions Taken
Describe General Condition of Slab	No deficiences observed / Cellar slab in good condition.
Describe any Cracks or New Penetrations	No evidence of cracks or new penetrations. Existing penetrations for utilities, historic wells, and sub-slab points have not changed
Describe any Patching	No new patching. Historic wall patching in utility area still present.

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

SS-18A -1.488

SUB-SLAB DEPRESSURIZATION SYSTEM OPERATIONS AND MAINTENANCE FORM

Site Name:	11-20 46th Road	Inspection Date:	02/20/2024
Street Address:	11-20 46th Road		
Location:	Long Island City, New York	Inspection Personnel:	Luisa Fernandez
System:	Active Sub-Slab Depressurization System		
Blower:	Rotron EN505, 2.0 HP		
Blower Range:	75 IWG pressure, 70 IWG vacuum, 150 SCFM		

INSPECTION ITEM DESCRIPTION	Yes	No	Comments/ Actions Taken (list actions taken if "No" is checked)
Is the system operating normally?	✓		- -
Are any warning lights on? (Please list those that are on)		✓	- -
If there is an alarm condition, was it fixed and the system restarted?		✓	- -
Is the blower enclosure in good condition?	✓		- -
Are the valves (at blower and aboveground piping) in good condition?	✓		- -
Is the vacuum filter in good condition?	✓		- -
Does the knock-out tank need to be drained? (Record amount drained)		✓	- -
Are vacuum/pressure gauges at blower operating properly?	✓		- -
Is exterior piping free of cracks, leaks, and support issues?	✓		- -
Is interior piping free of cracks, leaks, and support issues?	✓		- -

List maintenance activities that were performed or other comments about the system:

Blower Influent	Vacuum (in. w.c.)	Comments
INF-1 (after knock-out tank)	- -	- -
Knock-out Tank	- -	- -
Blower Effluent	**Pressure (in. w.c.)**	**Comments**
EFF-1	- -	- -
Soil Vapor Monitoring Point*	**Vacuum (in. w.c.)**	**Comments**
SS-7	-1.039	- -
SS-8	-1.764	- -
SS-9B	-2.072	- -
SS-10	-0.999	- -
SS-11	-2.877	- -
SS-12	-1.084	- -
SS-16	-1.012	- -
SS-17	-0.156	- -
SS-18	-0.119	- -
SS-19	-0.104	- -
SS-20B	-1.839	- -
SS-21	-1.172	- -

BUILDING CELLAR INSPECTION	Comments / Actions Taken
Describe General Condition of Slab	No deficiences observed / Cellar slab in good conditon
Describe any Cracks or New Penetrations	No evidence of cracks or new penetrations. Existing penetrations for utilities, historic wells, and sub-slab points have not changed.
Describe any Patching	No new patching. Historic wall patching in utility area still present.

in. w.c. - inches of water

* Refer to figure for locations of Soil Vapor Monitoring Points and Suction Points

SS-18A -1.346